

TO:	Mayor and Councilmembers
SUBMITTED BY:	Luz "Nina" Buelna, Public Works Director
PREPARED BY:	Michael Winnewisser, Project Manager Daniel Virgen Jr, Associate Engineer
SUBJECT:	Approval of Plans and Specifications, Adopt Categorical Exemption, and Award of Contracts for the 2025 Arterial Pavement Project

RECOMMENDATIONS:

- A. Approve the Plans and Specifications for the 2025 Arterial Pavement Project;
- B. Adopt Resolution No. 25-__, entitled "A Resolution of the City Council of the City of Goleta, California, finding the 2025 Arterial Pavement Rehabilitation Project Categorically Exempt from the California Environmental Quality Act (CEQA) Pursuant to State CEQA Guidelines Section 15301";
- C. Award and authorize the City Manager to execute a Construction Contract with Granite Construction, Inc. for the 2025 Arterial Pavement Project, in the not-to-exceed amount of \$9,238,401.00 subject to the requirements of the contract documents;
- D. Authorize the Public Works Director to approve contract change orders for the 2025 Arterial Pavement Project in an amount not to exceed \$1,427,333.00 ; and
- E. Award and authorize the City Manager to execute a Professional Services Agreement with MNS Engineers, Inc. in an amount not-to-exceed \$649,680.00 for Construction Management, Inspection, and Material Testing services with a June 30, 2026, termination date.

BACKGROUND:

Public Works staff completed the 2025 Arterial Pavement Project design in collaboration with Pavement Engineering, Inc., the pavement design consultant. On February 4, 2025, the City Council authorized staff to advertise for bids.

The roadway segments for the base and alternative bid locations are shown on the location map (see Attachment 4). These locations include repaying portions of:

- Hollister Avenue
- South Fairview Avenue
- Northeast Goleta Neighborhood
- Storke Road
- Calle Real
- Berkeley Road
- Los Carneros Road

The Public Works Department solicited competitive bids for the 2025 Arterial Pavement Project in the Santa Barbara Independent on April 10, 2025, and April 17, 2025. In addition, Public Works staff published the Bid Documents on PlanetBids. The bids were submitted to Planet Bids May 12, 2025. The City received a total of two (2) bids. A summary of the bids and the Engineer's Estimate is shown in Table 1 below.

	Granite Construction, Inc	Security Paving Company, Inc.	Engineer's Estimate
Base Bid	\$6,401,282.60	\$7,307,542.04	\$8,448,930.36
Alternate 1 Storke Road	\$1,420,762.00	\$1,900,634.57	\$1,822,986.00
Alternate 2 E. Calle Real	\$840,467.90	\$959,774.15	\$1,002,582.08
Alternate 3 Berkeley Road	\$1,164,671.70	\$1,450,751.40	\$1,568,105.52
Alternate 4 Los Carneros Road	\$412,920.80	\$575,049.40	\$596,298.29
Alternate 5 W. Calle Real	\$1,559,296.00	\$1,797,143.60	\$1,912,906.08
Alternate 6 Storke Road	\$419,058.00	\$725,042.35	\$754,173.43
TOTAL	\$12,218,459.00	\$14,715,937.51	\$16,105,981.76
PROJECT RECOMMENDATION Base + 2, 3, 4, 6	\$9,238,401.00	\$11,018,159.34	\$12,370,089.68

Table 1: Bid Results

Public Works staff selected MNS Engineers, Inc. (MNS) from the City's Pre-Authorized Consultant list approved by City Council on January 17, 2023, for Construction Management and requested a proposal for Construction Management, Inspection, and Material Testing.

DISCUSSION:

The scope of work for this project involves replacing pavement with hot mix asphalt, upgrading American with Disabilities Act (ADA)-compliant curb ramps, and updating traffic striping and markings. MNS will provide construction management, material testing, public outreach, and field inspection services to ensure the contractor builds the project according to plans and specifications.

Public Works staff are recommending that the City Council award to the lowest responsible bidder Granite Construction, Inc. the Base Bid and Bid Alternates 2, 3, 4, and 6 in the amount of \$9,238,401.00 and approve a contingency of \$1,427,333.00 for contract change orders, the total authorized construction cost is \$10,665,734.00. This option would grant staff change order authority for the base bid and the bid alternates and allow the City to issue a change order to include additional roadway restoration on Calle Real (from Salisbury Avenue to Rochester Way) and Pacific Oak Road (from Phelps Road to Hollister Avenue).

Additionally, Public Works staff recommends that the City Council award and authorize the City Manager to execute a professional services agreement with MNS for construction management services and approve the project Plans and Specifications.

ENVIRONMENTAL REVIEW:

The proposed project involves maintaining an existing facility. This activity is categorically exempt from CEQA as a Class 1 Exemption (State CEQA Guidelines Section 15301). The Exemption has been prepared, and no further CEQA action is required. Public Works staff recommends adoption of the attached resolution.

FISCAL IMPACTS:

The total estimated costs and funding sources associated with the Project are listed in Table 2 below. The funding amounts include budget for Fiscal Year 24/25 and 25/26.

Project Components	Project Costs	Funding Source	Funding Amounts
Design (Consultant)*	\$218,577.43	General Fund (101)	\$8,772,386.65
Construction (Base Bid & Alternates)	\$9,238,401.00	Gas Tax (201)	\$1,110,202.00
Construction Contingency	\$1,427,333.00	RMRA (203)	\$1,233,602.69
Construction Management (Consultant)	\$649,680.00	Measure A (205)	\$430,220.27
Staff Time	\$166,291	LSTP (306)	\$153,870.82
Total	\$11,700,282.43	Total	\$11,700,282.43

Table 2 – Project Cost Estimate

*Previously expended

Project Funding

The 2025 Arterial Pavement Project will be funded using the Fiscal Year (FY) 2024/25 and 2025/26 budgets. Approximately \$4.5 million from the FY 2024/25 budget and \$6.6 million from the FY 2025/26 budget will be used for construction expenses. The funding will utilize the following sources: General Fund, Gas Tax, SB1 Road Maintenance and Rehabilitation Account (RMRA), Local Surface Transportation Program (LSTP), and Measure A.

Account	Fund Type	FY 2024/25 Est. Est. Available Budget	FY 2025/26 Proposed Budget	Total Available Budget
101-50-5800- 51071	Maintenance- Concrete	\$25,080	\$250,000	\$252,050
101-50-5800- 51073	Maintenance- Pavement Rehab	\$5,568,816	\$4,100,000	\$8,057,519
201-50-5800- 51073	Maintenance- Pavement Rehab	\$110,202	\$1,000,000	\$1,110,202
203-50-5800- 51073	Maintenance- Pavement Rehab	\$383,603	\$850,000	\$1,013,211
205-50-5800- 51071	Maintenance- Concrete	\$57,676	\$0	\$57,676
205-50-5800- 51073	Maintenance- Pavement Rehab	\$72,545	\$300,000	\$372,545
306-50-5800- 51062	Maintenance- Streets	\$153,871	\$125,267*	\$279,138
Tot	al	\$6,371,791	\$6,625,267	\$12,997,058

Table 3 -	Fiscal	Year	24/25	and	25/26
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*Pending approval from SBCAG board

ALTERNATIVES:

The City Council may elect to reject all bids and direct staff to re-bid the project. Doing so would delay the construction of the project and may result in higher bid costs. The City Council may also elect to award the Base Bid and any or none of the bid alternates.

LEGAL REVIEW BY: Isaac Rosen, City Attorney

APPROVED BY: Robert Nisbet, City Manager

ATTACHMENTS:

- 1. Construction Contract with Granite Construction, Inc.
- 2. Professional Services Agreement with MNS Engineering, Inc. for Construction Management, Inspection, and Materials Testing Services
- 3. Resolution No. 25-__, entitled "A Resolution of the City Council of the City of Goleta, California, finding the 2025 Arterial Pavement Rehabilitation Project Categorically Exempt from the California Environmental Quality Act (CEQA) Pursuant to State CEQA Guidelines Section 15301"
- 4. 2025 Arterial Pavement Project Map
- 5. 2025 Arterial Pavement Project Bid Document
- 6. 2025 Arterial Pavement Project Plans

ATTACHMENT 1

Construction Contract with Granite Construction, Inc.

PUBLIC WORKS CONTRACT BETWEEN THE CITY OF GOLETA AND GRANITE CONSTRUCTION, INC.

This Public Works Contract (herein referred to as "CONTRACT") is made and entered into by and between the **CITY OF GOLETA**, a municipal corporation (herein referred to as "CITY"), and **GRANITE CONSTRUCTION**, **INC.**, a California Corporation (hereinafter referred to as "CONTRACTOR").

SECTION A. RECITALS

- 1. Pursuant to the Notice Inviting Sealed Bids for the 2025 Arterial Pavement Project, bids were received, publicly opened, and declared on the date specified in the notice.
- On June 17, 2025, Goleta's City Council declared CONTRACTOR to be the lowest responsible bidder and accepted the bid of CONTRACTOR and the City Council, approved this CONTRACT and authorized the City Manager to execute the CONTRACT with CONTRACTOR for furnishing labor, equipment, and material for the 2025 Arterial Pavement Project in the City of Goleta.

NOW, THEREFORE, in consideration of the foregoing and the mutual covenants herein contained, it is agreed:

SECTION B. TERMS

- 1. <u>GENERAL SCOPE OF WORK:</u> CITY agrees to engage CONTRACTOR and CONTRACTOR agrees to furnish all necessary labor, tools, materials, appliances, and equipment for and do the work for the 2025 Arterial Pavement Project in the City of Goleta. The work shall be performed in accordance with the Plans and Specifications (and as generally described in the "Notice Inviting Sealed Bids," attached as Exhibit A) and in accordance with bid prices set forth in CONTRACTOR'S Bid Proposal (attached as Exhibit B) and in accordance with the instructions of the City Engineer, or City's Manager's designee.
- 2. INCORPORATED DOCUMENTS TO BE CONSIDERED COMPLEMENTARY: The contract documents for the aforesaid project, a complete set of which is on file with the Goleta City Clerk's Office, shall consist of the Notice Inviting Bids, Instructions to Bidders, Bid Proposal, Standard Specifications, Special Provisions, and all referenced specifications, details, standard drawings, and appendices; together with this CONTRACT and all required bonds, insurance certificates, permits, notices and affidavits; and also, including any and all addenda or supplemental agreements clarifying, amending, or extending the work

Public Works Contract GRANITE CONSTRUCITON, INC. Page 2 of 14

contemplated as may be required to insure its completion in an acceptable manner. All of the provisions of said contract documents are made a part hereof as though fully set forth herein. This contract is intended to require a complete and finished piece of work and anything necessary to complete the work properly and in accordance with the law and lawful governmental regulations shall be performed by CONTRACTOR whether set out specifically in the contract or not. Should it be ascertained that any inconsistency exists between the aforesaid documents and this written CONTRACT, the provisions of this CONTRACT, and the Standard Specifications, in that order, shall control. Collectively, these contract documents constitute the complete CONTRACT between CITY and CONTRACTOR and supersede any previous agreements or understandings.

- 3. <u>COMPENSATION</u>: CONTRACTOR agrees to receive and accept the prices set forth in its Bid Proposal as full compensation for furnishing all materials, performing all work, and fulfilling all obligations hereunder. Said compensation shall cover all expenses, losses, damages, and consequences arising out of the nature of the work during its progress or prior to its acceptance including those for well and faithfully completing the work and the whole thereof in the manner and time specified in the aforesaid contract documents; and also including those arising from actions of the elements, unforeseen difficulties or obstructions encountered in the prosecution of the work, suspension or discontinuance of the work, and all other unknowns or risks of any description connected with the work.
- 4. <u>TIME OF PERFORMANCE:</u> CONTRACTOR agrees to complete the work within the timeframe specified in the Contract Documents from the date of the notice to proceed. By signing this CONTRACT, CONTRACTOR represents to CITY that the contract time is reasonable for completion of the work and that CONTRACTOR will complete such work within the contract time. In accordance with Government Code Section 53069.85, CONTRACTOR agrees to forfeit and pay CITY as liquidated damages, not as a penalty, the sum of \$6,700 per day for each and every day of unauthorized delay beyond the completion date, which amount shall be deducted from any payments due or to become due the CONTRACTOR.

5. PREVAILING WAGES:

A. Pursuant to Labor Code Sections §§1720 *et seq.*, including but not limited to sections 1771, 1774 and 1775, and as specified in Title 8, California Code of Regulations, Section 16000 et seq., CONTRACTOR must pay its workers prevailing wages. It is CONTRACTOR's responsibility to interpret and implement any prevailing wage requirements and CONTRACTOR agrees

Public Works Contract GRANITE CONSTRUCITON, INC. Page 3 of 14

to pay any penalty or civil damages resulting from a violation of the prevailing wage laws.

- B. In accordance with Labor Code Section 1773.2, copies of the prevailing rate of per diem wages are available upon request from CITY's Engineering Division or the website for State of California Prevailing wage determination at <u>http://www.dir.ca.gov/DLSR/PWD</u>. CONTRACTOR must post a copy of the prevailing rate of per diem wages at the job site.
- C. CITY directs CONTRACTOR's attention to Labor Code Sections 1777.5, 1777.6 and 3098 concerning the employment of apprentices by CONTRACTOR or any subcontractor.
- D. Labor Code Section 1777.5 requires CONTRACTOR or subcontractor employing tradesmen in any apprenticeship occupation to apply to the joint apprenticeship committee nearest the site of the public works project and which administers the apprenticeship program in that trade for a certificate of approval. The certificate must also fix the ratio of apprentices to journeymen that will be used in the performance of the contract. The ratio of apprentices to journeymen in such cases will not be less than one to five except:
 - (1) When employment in the area of coverage by the joint apprenticeship committee has exceeded an average of 15 percent in the 90 days before the request for certificate, or
 - (2) When the number of apprentices in training in the area exceeds a ratio of one to five, or
 - (3) When the trade can show that it is replacing at least 1/30 of its membership through apprenticeship training on an annual basis state-wide or locally, or
 - (4) When assignment of an apprentice to any work performed under a public works contract would create a condition that would jeopardize his or her life or the life, safety, or property of fellow employees or the public at large, or the specific task to which the apprentice is to be assigned is of a nature that training cannot be provided by a journeyman.

Pursuant to Labor Code § 1776, CONTRACTOR shall comply with all Department of Industrial Relations registration requirements.

E. CONTRACTOR is required to make contributions to funds established for the administration of apprenticeship programs if CONTRACTOR employs

Public Works Contract GRANITE CONSTRUCITON, INC. Page 4 of 14

registered apprentices or journeymen in any apprenticeable trade on such contracts and if other contractors on the public works site are making such contributions.

- F. CONTRACTOR and any subcontractor must comply with Labor Code Sections 1777.5 and 1777.6 in the employment of apprentices.
- G. Information relative to apprenticeship standards, wage schedules and other requirements may be obtained from the Director of Industrial Relations (DIR), ex-officio the Administrator of Apprenticeship, San Francisco, California, or from the Division of Apprenticeship Standards and its branch offices.
- H. CONTRACTOR and its subcontractors must keep an accurate certified payroll records showing the name, occupation, and the actual per diem wages paid to each worker employed in connection with this CONTRACT. The record will be kept open at all reasonable hours to the inspection of the body awarding the contract and to the Division of Labor Law Enforcement. If requested by CITY, CONTRACTOR must provide copies of the records at its cost.
- 6. <u>LEGAL HOURS OF WORK:</u> CONTRACTOR agrees to comply with the provisions of California Labor Code Section 1813 concerning penalties for workers who work excess hours. Except as provided by Labor Code Section 1815, the CONTRACTOR shall, as a penalty to the CITY, forfeit twenty five dollars (\$25) for each worker employed in the execution of the Contract by the CONTRACTOR or by any Subcontractor for each calendar day during which such worker is required or permitted to work more than 8 hours in any one calendar day and 40 hours in any one calendar week in violation of the provisions of Division 2, Part 7, Chapter 1, Article 3 (commencing at Section 1810) of the California Labor Code.
- <u>TRAVEL AND SUBSISTENCE PAY</u>: CONTRACTOR agrees to pay travel and subsistence pay to each worker needed to execute the work required by this CONTRACT as such travel and subsistence payments are defined in the applicable collective bargaining agreements filed in accordance with Labor Code Section 1773.8.
- 8. <u>CONTRACTOR'S LIABILITY:</u> The CITY and its officers, agents and employees ("Indemnitees") shall not be answerable or accountable in any manner for any loss or damage that may happen to the work or any part thereof, or for any of the materials or other things used or employed in performing the work; or for injury or damage to any person or persons, either workers or employees of

Public Works Contract GRANITE CONSTRUCITON, INC. Page 5 of 14

CONTRACTOR, of its subcontractors or the public, or for damage to adjoining or other property from any cause whatsoever arising out of or in connection with the performance of the work. CONTRACTOR shall be responsible for any damage or injury to any person or property resulting from defects or obstructions or from any cause whatsoever.

CONTRACTOR will indemnify Indemnities against and will hold and save Indemnitees harmless from any and all actions, claims, damages to persons or property, penalties, obligations or liabilities that may be asserted or claimed by any person, firm, entity, corporation, political subdivision, or other organization arising out of or in connection with the work, operation, or activities of CONTRACTOR, its agents, employees, subcontractors or invitees provided for herein, whether or not there is concurrent passive negligence on the part of CITY. In connection therewith:

- a. CONTRACTOR will defend any action or actions filed in connection with any such claims, damages, penalties, obligations or liabilities and will pay all costs and expenses, including attorneys' fees, expert fees and costs incurred in connection therewith.
- b. CONTRACTOR will promptly pay any judgment rendered against CONTRACTOR or Indemnitees covering such claims, damages, penalties, obligations and liabilities arising out of or in connection with such work, operations or activities of CONTRACTOR hereunder, and CONTRACTOR agrees to save and hold the Indemnitees harmless therefrom.
- c. In the event Indemnitees are made a party to any action or proceeding filed or prosecuted against CONTRACTOR for damages or other claims arising out of or in connection with the work, operation or activities hereunder, CONTRACTOR agrees to pay to Indemnitees and any all costs and expenses incurred by Indemnitees in such action or proceeding together with reasonable attorneys' fees.

CONTRACTOR'S obligations under this section apply regardless of whether or not such claim, charge, damage, demand, action, proceeding, loss, stop notice, cost, expense, judgment, civil fine or penalty, or liability was caused in part or contributed to by an Indemnitee. However, without affecting the rights of CITY under any provision of this CONTRACT, Contractor shall not be required to indemnify and hold harmless CITY for liability attributable to the active negligence of CITY, provided such active negligence is determined by agreement between the parties or by the findings of a court of competent jurisdiction. In instances where

Public Works Contract GRANITE CONSTRUCITON, INC. Page 6 of 14

CITY is shown to have been actively negligent and where CITY active negligence accounts for only a percentage of the liability involved, the obligation of Contractor will be for that entire portion or percentage of liability not attributable to the active negligence of City.

So much of the money due to CONTRACTOR under and by virtue of the contract as shall be considered necessary by CITY may be retained by CITY until disposition has been made of such actions or claims for damages as aforesaid.

It is expressly understood and agreed that the foregoing provisions are intended to be as broad and inclusive as is permitted by the law of the State of California. This indemnity provision shall survive the termination of the CONTRACT and is in addition to any other rights or remedies which Indemnitees may have under the law.

This indemnity is effective without reference to the existence or applicability of any insurance coverage which may have been required under this CONTRACT or any additional insured endorsements which may extend to Indemnitees.

CONTRACTOR, on behalf of itself and all parties claiming under or through it, hereby waives all rights of subrogation and contribution against the Indemnitees, while acting within the scope of their duties, from all claims, losses and liabilities arising out of or incident to activities or operations performed by or on behalf of the CONTRACTOR regardless of any prior, concurrent, or subsequent passive negligence by the Indemnitees.

- 9. <u>THIRD-PARTY CLAIMS:</u> In accordance with Public Contracts Code Section 9201, CITY will promptly inform CONTRACTOR regarding third-party claims against CONTRACTOR, but in no event later than ten (10) business days after CITY receives such claims. Such notification will be in writing and forwarded in accordance with the "Notice" section of this CONTRACT. As more specifically detailed in the contract documents, CONTRACTOR agrees to indemnify and defend the City against any third-party claim.
- 10. WORKERS COMPENSATION: In accordance with California Labor Code Sections 1860 and 3700, CONTRACTOR and each of its subcontractors will be required to secure the payment of compensation to its employees. In accordance with the provisions of California Labor Code Section 1861, CONTRACTOR, by signing this contract, certifies as follows: "I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract."

Public Works Contract GRANITE CONSTRUCITON, INC. Page 7 of 14

- **11.**<u>INSURANCE:</u> With respect to performance of work under this CONTRACT, CONTRACTOR shall maintain and shall require all of its subcontractors to maintain insurance as required in the Standard Specifications.
- **12.** <u>ASSIGNMENT:</u> This CONTRACT is not assignable nor the performance of either party's duties delegable without the prior written consent of the other party. Any attempted or purported assignment or delegation of any of the rights of obligations of either party without the prior written consent of the other shall be void and of no force and effect.
- **13.** <u>INDEPENDENT CONTRACTOR</u>: CONTRACTOR is and shall at all times remain as to the CITY, a wholly independent contractor. Neither the CITY nor any of its agents shall have control of the conduct of CONTRACTOR or any of CONTRACTOR'S employees, except as herein set forth. CONTRACTOR shall not at any time or in any manner represent that it or any of its agents or employees are in any manner agents or employees of CITY.
- **14.** <u>**TAXES:**</u> CONTRACTOR is responsible for paying all retail sales and use, transportation, export, import, special or other taxes and duties applicable to, and assessable against any work, materials, equipment, services, processes and operations incidental to or involved in this contract. CONTRACTOR is responsible for ascertaining and arranging to pay them. The prices established in the contract shall include compensation for any taxes CONTRACTOR is required to pay by laws and regulations in effect at the bid opening date.
- **15.** <u>LICENSES:</u> CONTRACTOR represents and warrants to CITY that it has all licenses, permits, qualifications, insurance, and approvals of whatsoever nature which are legally required of CONTRACTOR to practice its profession. CONTRACTOR represents and warrants to CITY that CONTRACTOR shall, at its sole cost and expense, keep in effect or obtain at all times during the term of this CONTRACT any licenses, permits, insurance, and approvals which are legally required of CONTRACTOR to practice its profession. CONTRACTOR shall maintain a City of Goleta business license, if required under CITY ordinance.
- **16.**<u>**RECORDS:**</u> CONTRACTOR shall maintain accounts and records, including personnel, property, and financial records, adequate to identify and account for all costs pertaining to this CONTRACT and such other records as may be deemed necessary by CITY or any authorized representative, and will be retained for three

Public Works Contract GRANITE CONSTRUCITON, INC. Page 8 of 14

years after the expiration of this CONTRACT. All such records shall be made available for inspection or audit by CITY at any time during regular business hours.

- 17. <u>SEVERABILITY:</u> If any portion of these contract documents are declared by a court of competent jurisdiction to be invalid or unenforceable, then such portion will be deemed modified to the extent necessary in the opinion of the court to render such portion enforceable and, as so modified, such portion and the balance of this CONTRACT will continue in full force and effect provided that it does not frustrate the mutual intent of the parties herein.
- 18. <u>WHOLE AGREEMENT:</u> This CONTRACT supersedes any and all other agreements either oral or written, between the parties and contains all of the covenants and agreements between the parties pertaining to the work of improvements described herein. Each party to this contract acknowledges that no representations, inducements, promises or agreements, orally or otherwise, have been made by any party, or anyone acting on behalf of any party, which are not embodied herein, and that any other agreement, statements or promise not contained in this contract shall not be valid or binding. Any modifications of this contract will be effective only if signed by the party to be charged.
- **19.** <u>AUTHORITY:</u> CONTRACTOR affirms that the signatures, titles, and seals set forth hereinafter in execution of this CONTRACT represent all individuals, firm members, partners, joint ventures, and/or corporate officers having a principal interest herein. Each party warrants that the individuals who have signed this CONTRACT have the legal power, right, and authority to make this CONTRACT and to bind each respective party. This CONTRACT may be modified by written amendment. CITY's City Manager may execute any such amendment on CITY's behalf.
- **20.**<u>NOTICES:</u> All notices permitted or required under this CONTRACT shall be in writing, and shall be deemed made when delivered to the applicable party's representative as provided in this CONTRACT. Additionally, such notices may be given to the respective parties at the following addresses, or at such other addresses as the parties may provide in writing for this purpose.

Such notices shall be deemed made when personally delivered or when mailed forty-eight (48) hours after deposit in the U.S. mail, first-class postage prepaid, and addressed to the party at its applicable address. Courtesy copies of notices may be sent via electronic mail, provided that the original notice is deposited in the U.S. mail or personally delivered as specified in this Section.

Public Works Contract GRANITE CONSTRUCITON, INC. Page 9 of 14

CITY OF GOLETA 130 Cremona Drive, Suite B Goleta, CA 93117 Attn: City Manager

CONTRACTOR 5335 Debbie Lane Santa Barbara, CA 93111 Attn: James A. Radich, Executive Vice President

- **21.<u>DISPUTES</u>**: Disputes arising from this contract will be determined in accordance with the contract documents.
- 22. <u>NONDISCRIMINATION:</u> The CITY reaffirms its ongoing commitment to equality in the conduct of City business, and prohibits any policy, plan, program, custom or practice, including harassment, in the conduct of City business. No discrimination or discriminatory practice shall occur in either employment of persons for, or completion of, the work contemplated by this CONTRACT, when such discrimination is based on race, color, national origin, or ancestry; religion; sex; gender, gender identity, gender expression, or gender transitioning status; physical disability, mental disability, medical condition, or genetic information; marital or domestic partner status; citizenship status; age; sexual orientation; exercising a legally protected right to an employment leave of absence; status as a victim of domestic violence, sexual assault, or stalking; reproductive health decision-making, or any other classification protected under state or federal law. Among other possible violations of law, a violation of this section exposes CONTRACTOR to the penalties provided for in Labor Code Section 1735.
- 23. <u>PAPER PRODUCTS AND PRINTING REQUIREMENTS</u>: To the extent this contract provides paper products, and printing and writing paper for the City, CONTRACTOR must meet quality standards and criteria specified in <u>SB 1383</u>, <u>Sections 22150-22154 of the Public Contract Code</u> and <u>16 Code of Federal Regulations (CFR) Section 260.12 by</u>:
 - a. If fitness and quality are equal, provide recycled products, instead of nonrecycled products whenever recycled products are available at the same or a lesser total cost than nonrecycled items.
 - b. Provide paper products and printing and writing paper that meet Federal Trade Commission recyclability standard as defined in 16 CFR Section 260.12.
 - c. Certify in writing, under penalty of perjury, the minimum percentage of postconsumer material in the paper products and printing and writing

Public Works Contract GRANITE CONSTRUCITON, INC. Page 10 of 14

paper offered or sold to the City. This certification requirement may be waived if the percentage of postconsumer material in the paper products, printing and writing paper, or both can be verified by a product label, catalog, invoice, or a manufacturer or vendor internet website.

- d. Certify in writing, on invoices or receipts provided, that the paper products and printing and writing paper offered or sold to the City is eligible to be labeled with an unqualified recyclable label as defined in 16 CFR Section 260.12.
- e. Comply with any other requirements in Goleta Municipal Code Section 8.10.900(B).
- 24. <u>ORGANIC WASTE USE REQUIREMENTS:</u> To the extent this contract provides landscaping maintenance, renovation, and construction services, CONTRACTOR must:
 - a. Use compost and SB 1383 eligible mulch, as practicable, produced from recovered organic waste, for all landscaping renovations, construction, or maintenance performed for the City, whenever available, and capable of meeting quality standards and criteria specified. SB 1383 eligible mulch used for land application must comply with 14 CCR Section 18993.1 18993.4, and must meet or exceed the physical contamination, maximum metal concentration and pathogen density standards specified in 14 CCR Sections 17852(a)(24.5)(A)(1) through (3).
 - Keep and provide records of procurement of recovered organic waste products (either through purchase or acquisition) to the City's Designated Representative, upon completion of projects. Information to be provided must include:
 - i. General description of how and where the product was used and if applicable, applied;
 - ii. Source of product, including name, physical location, and contact information for each entity, operation, or facility from whom the recovered organic waste products were procured;
 - iii. Type of product;
 - iv. Quantity of each product; and,
 - v. Invoice or other record demonstrating purchase or procurement.
 - c. Comply with all requirements in Goleta Municipal Code Section 8.10.900(A).

Public Works Contract GRANITE CONSTRUCITON, INC. Page 11 of 14

- 25. <u>NO THIRD-PARTY BENEFICIARY:</u> This CONTRACT and every provision herein is for the exclusive benefit of CONTRACTOR and CITY and not for the benefit of any other party. There will be no incidental or other beneficiaries of any of the CONTRACTOR's or the CITY's obligations under this Contract.
- 26.<u>TIME IS OF ESSENCE</u>: Time is of the essence for each and every provision of the Contract Documents.
- 27. <u>ACCEPTANCE OF FACSIMILE OR ELECTRONIC SIGNATURES</u>: The Parties agree that this CONTRACT, agreements ancillary to this CONTRACT, and related documents to be entered into in connection with this CONTRACT will be considered signed when the signature of a party is delivered by facsimile transmission or scanned and delivered via electronic mail. Such facsimile or electronic mail copies will be treated in all respects as having the same effect as an original signature.
- 28. <u>GOVERNING LAW:</u> This CONTRACT shall be governed by the laws of the State of California, and exclusive venue for any action involving this CONTRACT will be in Santa Barbara County.

IN WITNESS WHEREOF, the parties hereto have executed this CONTRACT with all the formalities required by law on the respective dates set forth opposite their signatures.

This CONTRACT is executed on this _____ day of _____, at Goleta, California, and effective as of _____, 20___.

CITY OF GOLETA:

Robert Nisbet, City Manager

ATTEST:

Deborah Lopez, City Clerk

Public Works Contract GRANITE CONSTRUCITON, INC. Page 12 of 14

APPROVED AS TO FORM: ISAAC ROSEN, CITY ATTORNEY

Signed by:

Scott Shapses

Scott Shapses, Deputy City Attorney

CONTRACTOR:

Larry Camilleri, Vice President Central Region

State of California License No.

____89 Department of Industrial Relations Registration No.

Type text here

Business Phone No.

(805)964-9951

CONTRACTOR'S Emergency Phone No. at which contractor can be reached at any time

Matt Grimm

(805) 331-2545

---- DocuSigned by:

Matthew S Grimm

Mattroninn, Chief Estimator

Public Works Contract - Rev. June 2024

Public Works Contract GRANITE CONSTRUCITON, INC. Page 13 of 14

EXHIBIT A NOTICE INVITING SEALED BIDS

NOTICE TO CONTRACTORS INVITING SEALED BIDS FOR THE 2025 ARTERIAL PAVEMENT PROJECT

City Project Number: N/A

PUBLIC NOTICE IS HEREBY GIVEN that the City of Goleta ("CITY"), invites sealed bids for the above stated project and will receive such bids via electronic transmission on the City of Goleta Planet Bids portal site until **May 12, 2025, at 3:00 P.M.** Late proposals will be rejected. No exceptions.

Copies of the Contract Documents and the Proposal Forms for bidding the project, may be obtained from the PlanetBids Website: <u>https://pbsystem.planetbids.com.</u> Proposals which do not acknowledge addendums to the project documents will be rejected.

All communications relative to this project shall be conducted through PlanetBids. Questions about alleged patent ambiguity of the plans, specifications, or estimate must be asked before bid opening. After bid opening, the CITY does not consider these questions as bid protests.

A pre-bid meeting will be held at N/A.

It is required that the Bidders have fully inspected the Project site in all particulars and become thoroughly familiar with the terms and conditions of the Bid Plans and Special Provisions and local conditions affecting the performance and costs of the Work prior to bidding and it is recommended that this be done prior to attending this meeting.

Pursuant to California Labor Code Section 1773, the City has ascertained the General Prevailing Rate of Wages in the County in which the work is to be done to be as determined by the Director of Industrial Relations of the State of California. Contractor is hereby made aware that information regarding prevailing wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: <u>https://www.dir.ca.gov/OPRL/2025-1/PWD/Southern.html</u>. The Contractor is required to post a copy of the applicable wage rates at the job site. Attention is directed to Section 7 "Legal Relations and Responsibility to the Public" of the Standard Construction Specifications.

The California Air Resources Board ("CARB") implemented amendments to the In-Use Off-Road Diesel-Fueled Fleets Regulations ("Regulation") which are effective on January 1, 2024 and apply broadly to all self-propelled off road diesel vehicles 25 horsepower or greater and other forms of equipment used in California. A copy of the Regulation is available at <u>https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2022/off-roaddiesel/appa-1.pdf</u>. Bidders are required to comply with all CARB and Regulation requirements, including, without limitation, all applicable sections of the Regulation, as codified in Title 13 of the California Code of Regulations section 2449 *et seq*. throughout the term of the Project. Bidders must provide, with their Bid, copies of Bidder's and all listed subcontractors the most recent, valid Certificate of Reported Compliance ("CRC") issued by CARB. Failure to provide valid CRCs as required herein may render the Bid non-responsive.

Bidders must be registered on the City of Goleta's PlanetBids portal in order to receive addendum notifications and to submit a bid. Go to PlanetBids for bid results and awards. It is the responsibility of the bidder to submit the bid with sufficient time to be received by PlanetBids prior to the bid opening date and time. Allow time for technical difficulties, uploading, and unexpected delays. Late or incomplete bids will not be accepted.

Bid must be accompanied by a bid security in the form of a money order, a certified cashier's check, or bidder's bond executed by an admitted surety, made payable to CITY. The bid security shall be an amount equal to ten percent (10%) of the total annual bid amount included with their proposals as required by California law.

Note: All bids must be accompanied by a scanned copy of the bid security uploaded to PlanetBids. The original security of the three (3) lowest bidders must be mailed or submitted to the office of the City Clerk at 130 Cremona Drive, Suite B, Goleta, California 93117, in a sealed envelope and be received or postmarked within three (3) City working days after the bid due date and time for the bid to be considered. The sealed envelope should be plainly marked on the outside, "SEALED BID SECURITY FOR <u>2025 ARTERIAL PAVEMENT PROJECT</u>."

The Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations (DIR) per California Labor Code Section 1771.4, including prevailing wage rates and apprenticeship employment standards. Affirmative action to ensure against discrimination in employment practices on the basis of race, color, national origin, ancestry, sex, or religion will also be required. The CITY hereby affirmatively ensures that all business enterprises will be afforded full opportunity to submit bids in response to this notice and will not be discriminated against on the basis of race, color, national origin, ancestry, sex, or religion in any consideration leading to the award of contract.

In accordance with the California Public Contract Code 20103.5 when federal funds are involved in local agency contracts, no bid shall be invalidated by the failure of the bidder to be licensed in California at the time of bid opening. However, at the time of award, the selected contractor shall be properly licensed in accordance with the laws of the State and the City of Goleta. Contractor shall possess a valid **Class A - General Engineering Contractor** license prior to award of Contract. Said license shall be maintained during the contract period. It is the Bidder's and Contractor's responsibility to obtain the correct Contractor's licenses. Bidders shall be skilled and regularly engage in the general class or type of work called for under this contract.

The successful Bidder will be required to furnish a Performance Bond and a Payment Bond each in an amount equal to 100% of the Contract Price. Each bond shall be in the forms set forth herein, shall be secured from a surety company that meets all State of California bonding requirements, as defined in Code of Civil Procedure Section 995.120, and that is a California admitted surety insurer.

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the DIR. No Bid will be accepted, nor any contract entered into without proof of the contractor's and subcontractors' current registration with the DIR to perform public work. If awarded a contract, the Bidder and its subcontractors, of any tier, shall maintain active registration with the DIR for the duration of the Project. Failure to provide proof of the contractor's

current registration pursuant to Labor Code Section 1725.5 may result in rejection of the bid as non-responsive.

The Contractor Company, including the Responsible Managing Officer (RMO) for the Contractor Company, shall demonstrate a minimum of five (5) years' experience successfully performing projects of substantially similar type, magnitude, and character of the work bid. The CITY reserves the right to reject all bids, reject any bid that is not responsive to the invitation, or to waive any minor irregularity and to take all bids under advisement for a period of up to ninety (90) working days. Failure to provide proof of the Contractor's current registration pursuant to Section 1725.5 of the Labor Code may result in rejection of the bid as non-responsive. Failure to comply with enforcement provisions pursuant to Section 1771.4 of the Labor Code may result in a determination that the Bidder is not responsible.

Bids shall remain open and valid for a period of one hundred twenty (120) calendar days after the Bid Deadline.

Pursuant to Public Contract Code section 22300, the successful bidder may substitute certain securities for funds withheld by CITY to ensure performance under the Contract or, in the alternative, request the CITY to make payment of retention to an escrow agent.

The U.S. Department of Transportation (DOT) provides a toll-free "hotline" service to report bid rigging activities. Bid rigging activities can be reported Mondays through Fridays, between 8:00 a.m. and 8:00 p.m., Eastern Time, Telephone No. 1-800-424-9071. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report these activities. The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially, and caller anonymity will be respected.

Any protest to an intended award of this contract shall be made in writing addressed to the City Clerk prior to the award. Any protest may be considered and acted on by the City Council at the time noticed for award of the contract. To request a copy of the notice of agenda for award, please contact the City Clerk cityclerkgroup@cityofgoleta.org or register on the CITY's website (www.cityofgoleta.org).

CITY OF GOLETA

Deborah S. Lopez, City Clerk

Published:

Santa Barbara Independent: April 10, 2025, and April 17, 2025

END OF NOTICE TO CONTRACTORS

Public Works Contract GRANITE CONSTRUCITON, INC. Page 14 of 14

EXHIBIT B BID PROPOSAL

2025 ARTERIAL PAVEMENT PROJECT

CONTRACTOR: Avanile Construction Company

SCHEDULE OF BASE BID ITEMS

ITEM NO.	*	ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
1	(P)	MOBILIZATION, BONDS & INSURANCE	LS	1	\$ 445,000	\$445,000
2	(P)	TRAFFIC CONTROL, TRAFFIC CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$ 1,096,109.10	¢
3		PORTABLE CHANGEABLE MESSAGE SIGN	EA	15	\$ 5,800	\$ 87,000
4	(P)	DEVELOPMENT, PLACEMENT, AND MAINTENANCE OF WATER POLLUTION CONTROL PLAN	LS	1	\$	\$ _45,000
5		3/8" HMA-SP-50 TYPE A (PG 64- 10)	TN	1,497	\$ 200	\$ 29,400
6		1/2" HMA-SP-50 TYPE A (PG 64- 10)	ΤN	1,655	\$ 275	\$ 372,375
7		1/2" HMA-SP-65 TYPE A (PG 64- 10)	TN	284	\$ H5	\$ 49,700
8		1/2" HMA-SP-85 TYPE A (PG 64- 10)	ΤN	6869 -6,821	\$ Ho	\$ 1,167,730
9		CRACK SEAL & SLURRY SEAL (TYPE II)	ΤN	370	\$UOD	\$000
10		SWEEPING ON THE 3RD, 7TH, 14TH, 21ST, & 30TH DAYS AFTER PLACING SLURRY SEAL	LS	1	\$ \U,0D0	\$ 10,000

PROP -6
PAGE 1A OF 19A
ADDENDUM 1

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ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
11	REMOVE & REPLACE TYPE A HMA DIKE	LF	30	\$ 215	\$ 4,450
12	COLD PLANE & REMOVE 0.17' EXISTING SECTION	SF	81,474	\$ 1.20	\$ 97,748.80
13	COLD PLANE & REMOVE 0.19' EXISTING SECTION	SF	146,988	\$ 1.20	\$ 174,385.40
14	COLD PLANE & REMOVE 0.25' EXISTING SECTION	SF	12,566	\$ (160	\$ 20,105.60
15	COLD PLANE & REMOVE 0.33' EXISTING SECTION	SF	129,360 134,787	\$ 1.55	\$ 200,508
16	COLD PLANE & REMOVE 0.50' EXISTING SECTION	SF	6,102 1,190	\$ 3	\$ 18,306
17	COLD PLANE & REMOVE 0.67' EXISTING SECTION	SF	27,785	\$ 1.70	\$ 47,7234.50
18	UNSUITABLE MATERIAL	CY	500	\$ 150	\$ 75,000
19	PAVEMENT TRANSITION B1 (REVOKABLE)	SF	810	\$ 2	\$ 1,420
20	PAVEMENT TRANSITION B2 (REVOKABLE)	SF	810	\$ 2	\$ 1,420
21	PRUNE & REMOVE TREE ROOTS UNDER HMA REPAIRS	SF	2,284	\$ 5	\$ 11,420
22	REMOVE TREE	EA	4	\$ 3,000	\$12,000

PROP -6
PAGE 2A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
23	(P) TRIM VEGETATION/TREE CANOPY IN WORK ZONE	LS	1	\$ 10,000	\$
24	FOG SEAL	LS	1	\$ 7,500	\$ 7,500
25	INSTALL SHOULDER BACKING	6 LF	459	\$ 25	\$ 11,475
26	RECONSTRUCT PCC CURB RAMP	EA	10	\$N,500	\$225,000
27	RECONSTRUCT PCC CURB RAMP WITH SPANDREL	EA	21	\$ 44,000	\$ 944,000
28	REMOVE & REPLACE PCC CUI	RB LF	14	\$ 75	\$ 1,050
29	REMOVE & REPLACE PCC CUI & GUTTER	RB LF	265	\$ ao	\$ 73,850
30	REMOVE, SALVAGE AND REPLACE PAVERS	SF	145	\$ US	\$ 9,425
31	REMOVE & DISPOSE PCC RAN	IP EA	1	\$ 1,200	\$ 1,200
32	LOWER WATER VALVE COVER	R EA	40	\$ 750	\$ 30,000
33	LOWER GAS VALVE COVER	EA	3	\$ 750	\$2,250
34	LOWER MANHOLE COVER	EA	22	\$775	\$17,050
35	LOWER TELECOMMUNICATIONS COVE	ER EA	2	\$ 800	\$1,400
36	LOWER SEWER CLEANOUT COVER	EA	1	\$ 750	\$-150

PROP -6
PAGE 3A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
37	ADJUST WATER VALVE COVER TO FINISH GRADE	EA	60	\$ 750	\$ 45,000
38	ADJUST WATER METER BOX COVER TO FINISH GRADE	EA	1	\$750	\$ 750
39	ADJUST GAS VALVE COVER TO FINISH GRADE) EA	3	\$ 750	\$ 2,250
40	ADJUST MANHOLE COVER TO FINISH GRADE	EA	45	\$ 1,000	\$45,000
41	ADJUST TELECOMMUNICATIONS COVE TO FINISH GRADE	R EA	2	\$ 1,000	\$ 2000
42	ADJUST SEWER CLEANOUT COVER TO FINISH GRADE	EA	1	\$ 750	\$ 750
43	ADJUST CABLE BOX TO FINISH GRADE	EA	3	\$ 750	\$ 2,250
44	ADJUST TRAFFIC SIGNAL BOX TO FINISH GRADE	EA	2	\$ 750	\$1,500
45	MONUMENT PERPETUTATION	EA	104	\$ 850 17250 WS	\$ 88,400
46	REMOVE, SALVAGE & REPLACE ROADSIDE SIGN	EA	3	\$ 500	\$ 1,500
47	PERMANENT PAVEMENT (P) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	\$	\$145,000
48	(P) REMOVAL OF EXISTING PAVEMENT STRIPING	LS	1	\$ 25,000	\$ 25,000
49	TEMPORARY PAINT FOR (P) PAVEMENT STRIPES, MARKINGS AND MARKERS	LS	1	\$ 52,000	\$52,000

PROP -6
PAGE 4A OF 19A
ADDENDUM 1

SUBTOTAL (BID ITEMS #1 TO #49)

\$6,401,282.60

* NOTES:

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- (F) DENOTES FINAL PAY ITEM
- (P) DENOTES PARTIAL PAYMENT

ALTERNATIVE BID 1

STORKE ROAD

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
50	(P) MOBILIZATION, BONDS & INSURANCE	LS	1	\$32,000	\$ 32,000
51	TRAFFIC CONTROL, TRAFFIC (P) CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$114,500	\$ 114,500
52	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2	\$2,350	\$4700
53	DEVELOPMENT, PLACEMENT, (P) AND MAINTENANCE OF WATER POLLUTION CONTROL PLAN	R LS	1	\$ 5,000	\$ 5,000
54	1/2" HMA-SP-85 TYPE A (PG 64- 10)	TN	1,282	\$ 715	\$24,350
55	CRACK SEAL & MICRO- SURFACING (TYPE II)	TN	88	\$ 400	\$ 152,800
56	SWEEPING ON THE 3RD, 7TH, 14TH, 21ST, & 30TH DAYS AFTER PLACING SLURRY SEAI	LS -	1	\$ 6,000	\$ U,DDD
57	COLD PLANE & REMOVE 0.50' EXISTING SECTION	SF	20,031	\$ 3	\$ 40,093
58	UNSUITABLE MATERIAL	CY	40	\$ 150	\$ U1000
59	(P) TRIM VEGETATION/TREE CANOPY IN WORK ZONE	LS	1	\$ 5,500	\$ 5,500
60	RECONSTRUCT PCC CURB RAMP	EA	2	\$14,000	\$32,000

PROP -6
PAGE 5A OF 19A
ADDENDUM 1

ITEM NO.	*	ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
61		RECONSTRUCT PCC CURB RAMP WITH SPANDREL	EA	6	\$21,000	\$124,000
62		RECONSTRUCT PCC PEDESTRIAN ISLAND	EA	1	\$U5500	\$25,500
63		LOWER WATER VALVE COVER	EA	5	\$ 525	\$ 2,625
64		LOWER MANHOLE COVER	EA	2	\$ 575	\$1,050
65		LOWER TELECOMMUNICATIONS COVER	EA	1	\$ 575	\$ 575
66		ADJUST WATER VALVE COVER TO FINISH GRADE	EA	5	\$ UTS	\$ 3,125
67		ADJUST MANHOLE COVER TO FINISH GRADE	EA	2	\$ 1,000	\$ 21000
68		ADJUST TELECOMMUNICATIONS COVER TO FINISH GRADE	EA	1	\$	\$ 1,000
69		ADJUST ELECTRIC BOX TO FINISH GRADE	EA	1	\$ 150	\$ 150
70		ADJUST TELECOMMUNICATIONS BOX TO FINISH GRADE	EA	5	\$ 150	\$ 750
71		ADJUST TRAFFIC SIGNAL BOX TO FINISH GRADE	EA	7	\$ 150	\$ 1,050
72		MONUMENT PERPETUTATION	EA	8	\$ 8120	\$ 4,500
73		REMOVE, SALVAGE & REPLACE STREET SIGN	EA	5	\$ 350	\$ 1,750
74	(P	PERMANENT PAVEMENT) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	\$ 175,000	\$ 125,000

PROP -6
PAGE 6A OF 19A
ADDENDUM 1

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ITEM NO.	*	ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
75	(P)	L OF EXISTING NT STRIPING	LS	1	\$ 3,844	\$3,844
76	(P) PAVEME	ARY PAINT FOR NT STRIPES, GS AND MARKERS	LS	1	\$ 3,844	\$ 3, 844
77	DEVELO	P WATER SUPPLY	LS	1	\$ 8,000	\$ 8,400
78	CLEARIN	G AND GRUBBING	LS	1	\$ 4,000	\$ 4,000
79	ROADWA	AY EXCAVATION	CY	271	\$ 5715	\$142,275
80		IPE CONDUIT JLE 40)(SLEEVE)	EA	2	\$ 5,000	\$ 10,000
81	CLASS IN BASE	AGGREGATE SUB	CY	16	\$ 425	\$ 4,800
82	CLASS II	AGGREGATE BASE	CY	793	\$ 105	\$83,245
83	BUS PAD	CONCRETE	CY	27	\$ 595ms	\$ 21,000 24,105 Mag
84	CURB / M CONCRE	IEDIAN (MINOR TE)	CY	17	\$775	\$ 13,175
85	CURB & CONCRE	GUTTER (MINOR TE)	CY	21	\$ 550	\$ 11,550
86	SIDEWAI	K (MINOR CONCRETE)) CY	40	\$ 1,150	\$ 46,000
87		STAMPED CONCRETE CONCRETE)(MINOR TE)	CY	16	\$ 915	\$ 15,600

PROP -6
PAGE 7A OF 19A
ADDENDUM 1

ITEM NO.	*	ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
88		CONSTRUCTION SURVEY (EXPECT TO BE COVERED IN MAINLINE JOB)	LS	1	\$ 35,840	\$ 35,840
89		RELOCATE STREET LIGHT	LS	1	\$7,900	\$7,900
90		BUS SHELTER & ST. FURNITURE 1 @ STORKE STA 49+00	LS	1	\$ 54,500	\$ 56,500
91		BUS SHELTER & ST. FURNITURE 2 @ HOLLISTER STA 32+00	LS	1	\$53,000	\$ 53,000
92		POTHOLING REPORT	LS	1	\$ U1,000	\$ M1,000
93		UTILITY CONFLICT ACCOMODATIONS	LS	1	\$ l	\$
94		UNKNOWN UTILITY CROSSING	EA	10	\$ 750	\$ 7,500
95		TRASH CANS	EA	4	\$ 1,500	\$ 4,000
96		BENCH	EA	7	\$ 1,400	\$ 9,800
		SUBTOTAL ITEMS 50-94 50-96 (A	LTERNA	TIVE BID #1		\$1,420,702

- * NOTES:
- (F) DENOTES FINAL PAY ITEM
- (P) DENOTES PARTIAL PAYMENT

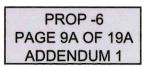
PROP -6
PAGE 8A OF 19A
ADDENDUM 1

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ALTERNATIVE BID #2

CALLE REAL

	CALLE REAL				
ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
97 95	(P) MOBILIZATION, BONDS & INSURANCE	LS	1	\$35,000	\$35,000
98 96	TRAFFIC CONTROL, TRAFFIC (P) CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$ 115,000	\$
99 97	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2	\$ 3,000	\$ 4,000
100 98	DEVELOPMENT, PLACEMENT, (P) AND MAINTENANCE OF WATER POLLUTION CONTROL PLAN	R LS	1	\$ 5,000	\$ 5,000
101 99	1/2" HMA-SP-65 TYPE A (PG 64- 10)	TN	874	\$ 175	\$152,950
102 100	1/2" HMA-SP-85 TYPE A (PG 64- 10)	TN	107	\$ 170	\$ 18, 190
103 101	COLD PLANE & REMOVE 0.30' EXISTING SECTION	SF	38,825	\$1.55	\$ 40, 178.75
104 102	COLD PLANE & REMOVE 0.33' EXISTING SECTION	SF	3,713	\$ 1.55	\$5,755.15
105 103	UNSUITABLE MATERIAL	CY	10	\$ (50	\$ 1,500
106 104	PRUNE & REMOVE TREE ROOTS UNDER HMA REPAIRS	SF	126	\$ 5	\$ 430
107 105	(P) TRIM VEGETATION/TREE CANOPY IN WORK ZONE	LS	1	\$ 5,500	\$ 5,500
108 106	INSTALL SHOULDER BACKING	LF	1,150	\$ 20	\$ 23,000
109 107	RECONSTRUCT PCC CURB RAMP	EA	2	\$14,500	\$ 33,000



ITEM NO.	×	ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
110 108		RECONSTRUCT PCC CURB RAMP WITH SPANDREL	EA	6	\$ 39,000	\$ 234,000
111 109		LOWER WATER VALVE COVER	EA	14	\$ 750	\$ 10,500
112 110		LOWER MANHOLE COVER	EA	6	\$ 750	\$4,500
113 111		ADJUST WATER VALVE COVER TO FINISH GRADE	EA	14	\$ 750	\$ 10,500
114 112		ADJUST MANHOLE COVER TO FINISH GRADE	EA	6	\$ 1,000	\$ 4,00D
115 113		MONUMENT PERPETUTATION	EA	29	\$ 1,250,000	\$ 24,450
116 114	(F	PERMANENT PAVEMENT P) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	\$ 81,000	\$ 81,000
117 115	(F	P) REMOVAL OF EXISTING PAVEMENT STRIPING	LS	1	\$ 3,801	\$ 3,807
118 116	(F	TEMPORARY PAINT FOR P) PAVEMENT STRIPES, MARKINGS AND MARKERS	LS	1	\$ 3,801	\$ 3,801
		SUBTOTAL ITEMS 95-116 97-118			#2)	\$ 840,407.90

* NOTES:

DENOTES FINAL PAY ITEM

(F) (P) DENOTES PARTIAL PAYMENT

P	ROP -6
PAGE	10A OF 19A
ADD	ENDUM 1

ALTERNATIVE BID #3

BERKELEY ROAD

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
119 117	(P) MOBILIZATION, BONDS & INSURANCE	LS	1	\$ 42,000	\$ 42,000
120 118	TRAFFIC CONTROL, TRAFFIC (P) CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$ U5,000	\$ 25,000
121 119	PORTABLE CHANGEABLE MESSAGE SIGN	EA	1	\$ 2,400	\$ 3400
122 120	DEVELOPMENT, PLACEMENT, (P) AND MAINTENANCE OF WATER POLLUTION CONTROL PLAN	LS	1	\$ 5,000	\$ 5,000
123 121	1/2" HMA-SP-50 TYPE A (PG 64- 10)	TN	1,197	\$ 200 \$ 200 Webs	\$ 239,400 \$ 239,400
124 122	1/2" HMA-SP-85 TYPE A (PG 64- 10)	TN	407	\$ 170	\$ 69,190
125 123	KEYCUT - TYPE A1	LF	2,718	\$	\$ 2,718
126 12 4	KEYCUT - TYPE B1	LF	289	\$	\$ 289
127 125	COLD PLANE & REMOVE 0.17' EXISTING SECTION	SF	29,478	\$ 1.15	\$ 33,899.70
128 126	COLD PLANE & REMOVE 0.25' EXISTING SECTION	SF	4,537	\$ 1.40	\$ -1,259,20
129 127	COLD PLANE & REMOVE 0.33' EXISTING SECTION	SF	12,876	\$ 1,55	\$ 19,957-80
130 128	UNSUITABLE MATERIAL	CY	45	\$ 150	\$ 4,750
131 129	PAVEMENT TRANSITION C	SF	2,027	\$	\$2,000
132 130	PAVEMENT TRANSITION D	SF	1,019	\$ 1	\$ 1,019

PROP -6
PAGE 11A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
133 131	PRUNE & REMOVE TREE ROOTS UNDER HMA REPAIRS	SF	1,067	\$ 5	\$ 5,335
134 132	REMOVE TREE	EA	13	\$ 2,200	\$ 28,400
135 133	(P) TRIM VEGETATION/TREE CANOPY IN WORK ZONE	LS	1	\$ 5,500	\$ 5,500
136 13 4	RECONSTRUCT PCC CURB RAMP	EA	6	\$ 18,000	\$ 108,000
137 135	RECONSTRUCT PCC CURB RAMP WITH SPANDREL	EA	6	\$ 39,000	\$ 234,000
138 136	REMOVE & REPLACE PCC CURE & GUTTER	³ LF	384	\$ 95	\$_34,480
139 137	REMOVE & REPLACE SIDEWALK UNDERDRAIN WITH PIPE	LF	5	\$ 775	\$ 1,375
140 138	LOWER WATER VALVE COVER	EA	11	\$ 750	\$ 8,2150
141 139	LOWER MANHOLE COVER	EA	3	\$ 750	\$ 2,250
142 140	ADJUST WATER VALVE COVER TO FINISH GRADE	EA	14	\$ 750	\$ 10,500
143 141	ADJUST MANHOLE COVER TO FINISH GRADE	EA	8	\$ 1,000	\$ 8,000
144 142	MONUMENT PERPETUTATION	EA	28	\$ 12120-00	\$ 23,800
145 143	REMOVE, SALVAGE & REPLACE ROADSIDE SIGN	EA	1	\$ 350	\$ 350
146 144	PERMANENT PAVEMENT (P) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	\$ 37708	\$ 37,708

PROP -6
PAGE 12A OF 19A
ADDENDUM 1

	ITEM NO.	*	ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
	147 145		REMOVAL OF EXISTING PAVEMENT STRIPING	LS	1	\$3,807	\$ 3,807
	148 146	(P)	TEMPORARY PAINT FOR PAVEMENT STRIPES, MARKINGS AND MARKERS	LS	1	\$ 3,501	\$ 3,801
SUBTOTAL ITEMS 117-146 119-148 (ALTERNATIVE BID #3)						\$1,104,071.70	

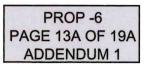
* NOTES:

- (F) DENOTES FINAL PAY ITEM
- (P) DENOTES PARTIAL PAYMENT

ALTERNATIVE BID #4

LOS CARNEROS ROAD

ITEM NO.	*	ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
149 147		MOBILIZATION, BONDS & INSURANCE	LS	1	\$40,0DD	\$40,000
150 148	(P)	TRAFFIC CONTROL, TRAFFIC CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$-70,000	\$ 70,000
151 149		PORTABLE CHANGEABLE MESSAGE SIGN	EA	2	\$2,500	\$ 5,000
152 150	(P)	DEVELOPMENT, PLACEMENT, AND MAINTENANCE OF WATER POLLUTION CONTROL PLAN	LS	1	\$ 4,000	\$ 4,000
153 151		1/2" HMA-SP-85 TYPE A (PG 64- 10)	TN	1,039	\$ 170	\$ 176.030
154 152		COLD PLANE & REMOVE 0.63' EXISTING SECTION	SF	22,154	\$ 1.70	\$37,441.80
155 153		UNSUITABLE MATERIAL	CY	45	\$ 150	\$ 4,750
156 15 4	1	RECONSTRUCT PCC CURB RAMP	EA	1	\$ 14,500	\$14,500



-	ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
	157 155	LOWER MANHOLE COVER	EA	3	\$ 750	\$ 2,250
	158 156	LOWER TELECOMMUNICATIONS COVER	EA	1	\$ 750	\$ 750
	159 157	ADJUST MANHOLE COVER TO FINISH GRADE	EA	3	\$	\$ 3,000
	160 158	ADJUST TELECOMMUNICATIONS COVER TO FINISH GRADE	EA	1	\$	\$
	161 159	ADJUST ELECTRIC BOX COVER TO FINISH GRADE	EA	2	\$ 250	\$ 500
	162 160	MONUMENT PERPETUTATION	EA	8	\$1,250	\$ 10,000
	163 161	PERMANENT PAVEMENT (P) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	15 14 34,445	\$ 34,445
	164 162	(P) REMOVAL OF EXISTING PAVEMENT STRIPING	LS	1	\$ 3,807	\$ 3,807
	165 163	TEMPORARY PAINT FOR (P) PAVEMENT STRIPES, MARKINGS AND MARKERS	LS	1	\$3,507	\$ 3,807
		SUBTOTAL ITEMS 147-163 149-1	65 (ALT	ERNATIVE B	ID #4)	\$412,920.80
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- * NOTES:
- DENOTES FINAL PAY ITEM
- (F) (P) DENOTES PARTIAL PAYMENT

PROP -6
PAGE 14A OF 19A
ADDENDUM 1

ALTERNATIVE BID #5

CALLE REAL

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
166 164	(P) MOBILIZATION, BONDS & INSURANCE	LS	1	\$ 40,000	\$ 40,000
167 165	TRAFFIC CONTROL, TRAFFIC (P) CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$ 215,000	\$ 215,000
168 166	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2	\$3,000	\$4,000
169 167	DEVELOPMENT, PLACEMENT, (P) AND MAINTENANCE OF WATER POLLUTION CONTROL PLAN	LS	1	\$ &_500	\$ 8,500
170 168	1/2" HMA-SP-65 TYPE A (PG 64- 10)	TN	1,528	\$ 200	\$ 305,600
171 169	PULVERIZE 1.25' OF EXISTING SECTION	SF	48,876	\$.75	\$ 34,457
172 170	TRIM, REMOVE AND DISPOSE 0.42' PULVERIZED MATERIAL, REGRADE	SF	48,876	\$ 1.50	\$ 73,314
173 171	CEMENT TREAT 0.83' SUBGRADE, TRIM TO TOP OF SUBGRADE	SF	48,876	\$	\$ 48,876
174 172	CEMENT	TN	107	\$ 240	\$ 27.870
175 173	UNSUITABLE MATERIAL	CY	50	\$ 150	\$ 7,500
176 174	(P) TRIM VEGETATION/TREE CANOPY IN WORK ZONE	LS	1	\$ 5,500	\$ 5,500
177 175	RECONSTRUCT PCC CURB RAMP	EA	6	\$ 19,500	\$17,000
178 176	RECONSTRUCT PCC CURB RAMP WITH SPANDREL	EA	12	\$41,000	\$492,000

PROP -6
PAGE 15A OF 19A
ADDENDUM 1

ITEM NO.	*	ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
179 177		RECONSTRUCT PCC DRIVEWAY	EA	2	\$ 17,500	\$ 35,000
180 178		LOWER WATER VALVE COVER	EA	14	\$ 750	\$ 10,500
181 179		LOWER MANHOLE COVER	EA	9	\$ 750	\$4,750
182 180		ADJUST WATER VALVE COVER TO FINISH GRADE	EA	14	\$ 750	\$ 10,500
183 181		ADJUST MANHOLE COVER TO FINISH GRADE	EA	9	\$ 1,000	\$ 9,000
184 182		MONUMENT PERPETUTATION	EA	47	\$ 1,250	\$ 39999 MA
185 183		REMOVE, SALVAGE & REPLACE MAILBOX	EA	1	\$ 3150	\$ 350
186 18 4		REMOVE, SALVAGE & REPLACE STREET SIGN	EA	4	\$ 350	\$ 1,400
187 185	(P)	PERMANENT PAVEMENT) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	\$ 34,445	\$ 34,445
188 186	(P)	REMOVAL OF EXISTING PAVEMENT STRIPING	LS	1	\$ 3,807	\$,807
189 187	(P)	TEMPORARY PAINT FOR PAVEMENT STRIPES, MARKINGS AND MARKERS	LS	1	\$ 3,807	\$ 3,807
		SUBTOTAL ITEMS 164-187 166-18	89 (ALT	ERNATIVE BI	D #5)	\$1,559,296

* NOTES:

DENOTES FINAL PAY ITEM

(F) (P) DENOTES PARTIAL PAYMENT

PROP -6
PAGE 16A OF 19A
ADDENDUM 1

ALTERNATIVE BID #6

STORKE ROAD

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
190 188	(P) MOBILIZATION, BONDS & INSURANCE	LS	1	\$32,000	\$ 32,000
191 189	TRAFFIC CONTROL, TRAFFIC (P) CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$ 0000	\$ 23,000
192 190	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2	\$2,350	\$4,700
193 191	DEVELOPMENT, PLACEMENT, (P) AND MAINTENANCE OF WATER POLLUTION CONTROL PLAN	LS	1	\$ 5,000	\$ 5,000
194 192	1/2" HMA-SP-85 TYPE A (PG 64- 10)	ΤN	835	\$ 175	\$146,125
195 193	CRACK SEAL & MICRO- SURFACING (TYPE II)	TN	129	\$ 600	\$-17,400
196 194	SWEEPING ON THE 3RD, 7TH, 14TH, 21ST, & 30TH DAYS AFTER PLACING SLURRY SEAL	LS	1	\$ 6,000	\$4,000
197 195	COLD PLANE & REMOVE 0.50' EXISTING SECTION	SF	19,343	\$ 3	\$ 58,029
198 196	UNSUITABLE MATERIAL	CY	40	\$ 150	\$ 4,000
199 197	(P) TRIM VEGETATION/TREE CANOPY IN WORK ZONE	LS	1	\$ 5,500	\$ 5,500
200 198	LOWER WATER VALVE COVER	EA	5	\$ 515	\$ 2, 625
201 199	LOWER MANHOLE COVER	EA	2	\$ 575	\$ 1,050
202 200	LOWER TELECOMMUNICATIONS COVER	EA	1	\$ 525	\$ 575
203 201	ADJUST WATER VALVE COVER TO FINISH GRADE	EA	5	\$ 425	\$3,125

PROP -6
PAGE 17A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
204 202	ADJUST MANHOLE COVER T FINISH GRADE	O EA	2	\$ 1,000	\$ 2,000
205 203	ADJUST TELECOMMUNICATIONS CO TO FINISH GRADE	VER EA	1	\$ 1,000	\$ 1,000
206 20 4	MONUMENT PERPETUTATIO	N EA	3	8120 -1.750 pc	2,550
207 205	REMOVE, SALVAGE & REPLA STREET SIGN	ACE EA	1	\$ 350	\$ 350
208 206	PERMANENT PAVEMENT (P) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	\$ 34.445	\$ 34,445
209 207	(P) REMOVAL OF EXISTING PAVEMENT STRIPING	LS	1	\$ 3,807	\$ 3,801
210 208	TEMPORARY PAINT FOR (P) PAVEMENT STRIPES, MARKINGS AND MARKERS	LS	1	\$ 3,507	\$ 3,807
	SUBTOTAL ITEMS 188-208 19	00-210 (ALTE	RNATIVE BI	D #6)	\$119,058
BASE BID: ENTER SUBTOTAL OF BID ITEMS #1 TO #49			\$4,401,282,60		
SUBTOT	TAL ITEMS 50-9 4 50-96 (ALTERNA	TIVE BID #1)]	\$1,470,762
SUBTOT	TAL ITEMS 95-116 97-118 (ALTERN	NATIVE BID #	(2)]	\$840,4107.90
SUBTOT	TAL ITEMS 117-146 119-148 (ALTE	RNATIVE BI	D #3)]	\$1,102,011.40
SUBTOTAL ITEMS 147-163 149-165 (ALTERNATIVE BID #4)					\$1,104,071.49 \$412,920.50 \$1,559,296
SUBTOTAL ITEMS 164-187 166-189 (ALTERNATIVE BID #5)					\$1,559,296
SUBTOTAL ITEMS 188-208 190-210 (ALTERNATIVE BID #6)					
TOTAL OF BASE BID PLUS ALTERNATE BID					

PROP -6
PAGE 18A OF 19A
ADDENDUM 1

ATTACHMENT 2

Professional Services Agreement with MNS Engineering, Inc. for Construction Management, Inspection, and Material Testing Services **Project Name: 2025 Arterial Pavement Project**

AGREEMENT FOR PROFESSIONAL BETWEEN THE CITY OF GOLETA AND MNS ENGINEERS, INC

This AGREEMENT FOR PROFESSIONAL SERVICES (herein referred to as "AGREEMENT") is made and entered into this ______ day of _____, 2025, by and between the **CITY OF GOLETA**, a municipal corporation (herein referred to as "CITY"), and **MNS ENGINEERS**, **INC**, a California Corporation (herein referred to as "CONSULTANT").

SECTION A. RECITALS

- 1. The CITY has a need for professional construction management services for the 2025 Arterial Pavement Project; and
- 2. The CITY does not have the personnel able and/or available to perform the services required under this AGREEMENT, and therefore, the CITY desires to contract for professional services to accomplish this work; and
- 3. The CITY procured these services in compliance with Goleta Municipal Code Section 3.05.260; and
- 4. The City Council, on this _____ day of _____, 20___, approved this AGREEMENT and authorized the City Manager to execute the AGREEMENT.

SECTION B. TERMS

1. <u>RETENTION AS CONSULTANT</u>

CITY hereby retains CONSULTANT, and CONSULTANT hereby accepts such engagement, to perform the services described in Section 2. CONSULTANT represents it has the qualifications, experience, and facilities to properly and timely perform said services.

2. DESCRIPTION OF SERVICES

The services to be performed by CONSULTANT are as follows:

Professional Construction Management Services in conjunction with 2025 Arterial Pavement Project Services shall generally include construction management, inspection, and material testing

> City of Goleta Public Works Department and MNS Engineers, Inc Page 1 of 19

as more particularly set forth in the Scope of Work, attached as Exhibit "A," and incorporated herein.

CONSULTANT shall deliver to CITY the deliverables defined in Exhibit "A."

3. COMPENSATION AND PAYMENT

(a) Maximum and Rate. The total compensation payable to CONSULTANT by CITY for the services under this AGREEMENT SHALL NOT EXCEED the sum of \$649,680.00 (herein "not to exceed amount"), and shall be earned as the work progresses on the following basis:

Hourly at the hourly rates and with reimbursement to CONSULTANT for those expenses set forth in CONSULTANT's Schedule of Fees marked Exhibit "B," attached and incorporated herein. The rates and expenses set forth in that exhibit shall be binding upon CONSULTANT until June 30, 2026, after which any change in said rates and expenses must be approved in writing by CITY's Project Manager as described in Section 5 (CITY is to be given 60 days notice of any rate increase request), provided the not to exceed amount is the total compensation due CONSULTANT for all work described under this AGREEMENT.

(b) <u>Payment</u>. CONSULTANT shall provide CITY with written verification of the actual compensation earned, which written verification shall be in a form satisfactory to CITY's Project Manager, as described in Section 5. Invoices shall be made no more frequently than on a monthly basis, and describe the work performed (including a list of hours worked by personnel classification). All payments shall be made within 30 days after CITY's approval of the invoice.

4. EXTRA SERVICES

CITY shall pay CONSULTANT for those CITY authorized extra services, not reasonably included within the services described in Section 2, as mutually agreed to writing in advance of the incurrence of extra services by CONSULTANT. Unless CITY and CONSULTANT have agreed in writing before the performance of extra services, no liability and no right to claim compensation for such extra services or expenses shall exist. The applicable hourly rates for extra services shall be at the hourly rates set forth in Exhibit B, if one is included as part of this agreement. Any compensation for extra services shall be part of the total compensation and shall not increase the not to exceed amount identified in Section 3.

5. CITY PROJECT MANAGER AND SERVICES BY CITY

The services to be performed by CONSULTANT shall be accomplished under the general direction of, and coordinate with, CITY's "Project Manager", as that staff person is designated by CITY from time to time, and who presently is Daniel Virgen Jr. Project Manager shall have the authority to act on behalf of the CITY in administering this AGREEMENT but shall not be authorized to extend the term of the AGREEMENT or increase the not to exceed amount.

6. TERM, PROGRESS AND COMPLETION

The term of this AGREEMENT is from the date first written above to June 30, 2026, unless term of this AGREEMENT is extended, or the AGREEMENT is terminated as provided for herein.

CONSULTANT shall not commence work on the services to be performed until (i) CONSULTANT furnishes proof of insurance as required by Section 10 below, and (ii) CITY gives written authorization to proceed with the work provided by CITY's Project Manager.

7. OWNERSHIP OF DOCUMENTS

All drawings, designs, data, photographs, reports and other documentation (other than CONSULTANT's drafts, notes and internal memorandum), including duplication of same prepared by CONSULTANT in the performance of these services, are the property of CITY. CITY shall be entitled to immediate possession of the same upon completion of the work under this AGREEMENT, or at any earlier or later time when requested by CITY. CITY agrees to hold CONSULTANT harmless from all damages, claims, expenses, and losses arising out of any reuse of the plans and specifications for purposes other than those described in this AGREEMENT, unless written authorization of CONSULTANT is first obtained.

8. PERSONAL SERVICES/NO ASSIGNMENT/SUBCONTRACTOR

This AGREEMENT is for professional services which are personal to CITY. Taylor Merlo is deemed to be specially experienced and is a key member of CONSULTANT's firm, and shall be directly involved in the performance of this work. This key person shall communicate with, and periodically report to, CITY on the progress of the work. Should any such individual be removed from assisting in this contracted work for any reason, CITY may terminate this AGREEMENT. This AGREEMENT may not be assigned or subcontracted without the City Manager's prior written consent.

9. HOLD HARMLESS AND INDEMNITY

Indemnification and Defense for Professional Service. To the (a) fullest extent permitted by law, Consultant shall indemnify, defend and hold harmless the CITY and any and all of its officials, employees and agents ("Indemnified Parties") from and against any and all claims, losses, liabilities, damages, costs and expenses, including reasonable attorney's fees and costs, to the extent they arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the CONSULTANT. CONSULTANT's duty to defend shall consist of reimbursement of defense costs incurred by CITY in direct proportion to the CONSULTANT's proportionate percentage of fault. CONSULTANT's percentage of fault shall be determined, as applicable, by a court of law, jury or arbitrator. In the event any loss, liability or damage is incurred by way of settlement or resolution without a court, jury or arbitrator having made a determination of the CONSULTANT's percentage of fault, the parties agree to mediation with a third party neutral to determine the CONSULTANT's proportionate percentage of fault for purposes of determining the amount of indemnity and defense cost reimbursement owed to the CITY.

(b) For All Other Liabilities. Notwithstanding the foregoing and without diminishing any rights of CITY, for any liability, claim, demand, allegation against CITY arising out of, related to, or pertaining to any act or omission of CONSULTANT, but which is not a design professional service, CONSULTANT shall defend, indemnify, and hold harmless CITY, its officials, employees, and agents ("Indemnified Parties") from and against any and all damages, costs, expenses (including reasonable attorney fees and expert witness fees), judgments, settlements, and/or arbitration awards, whether for personal or bodily injury, property damage, or economic injury, and arising out of, related to, any concurrent or contributory negligence on the part of the CITY, except for the sole or active negligence of, or willful misconduct of the CITY.

(c) No Waiver. CITY does not waive, nor shall be deemed to have waived, any indemnity, defense or hold harmless rights under this section because of the acceptance by CITY, or the deposit with CITY, of any insurance certificates or policies described in Section 10.

10. INSURANCE

CONSULTANT shall, at CONSULTANT's sole cost and expense, provide insurance as described herein. All insurance is to be placed with insurers authorized to do business in the State of California with an A.M. Best and Company rating of A- or better, Class VII or better, or as otherwise approved by CITY. Insurance shall include the following (or broader) coverage:

- a) Insurance Services Office Commercial Liability coverage "occurrence" form CG 00 01 or its exact equivalent with an edition date prior to 2004 and with minimum limits of \$1,000,000 per occurrence and \$2,000,000 general aggregate.
- b) Insurance Services Office form number CA 00 01 or equivalent covering Automobile Liability, including hired and non-owned automobile liability with a minimum limit of \$1,000,000 per accident. If the Service Provider owns no vehicles, this requirement may be satisfied by a non-owned and hired auto endorsement to Service Provider's commercial general liability policy.
- c) Workers' Compensation insurance complying with California worker's compensation laws, including statutory limits for workers' compensation and an Employer's Liability limit of \$1,000,000 per accident or disease.
- d) Professional liability insurance that covers the services to be performed in connection with this agreement, in the minimum amount of \$1,000,000 per claim.

Liability insurance policies required to be provided by CONSULTANT hereunder shall contain or be endorsed to contain the following provisions:

- a) Except for professional liability insurance and worker's compensation insurance, CITY, its employees, officials, agents and member agencies shall be covered as additional insureds. Coverage shall apply to any and all liability arising out of the work performed or related to the contract. Additional insured status under the general liability requirement shall be provided on Insurance Services Office Form CG 20 10, with an edition date prior to 2004, or its equivalent. Additional insured status for completed operations shall be provided either in the additional insured form or through another endorsement such as CG 20 37, or its equivalent. CONSULTANT will, as to the worker's compensation insurance required by this AGREEMENT, obtain a Waiver of the Right of Subrogation Endorsement in favor of the CITY.
- b) General and automobile liability insurance shall apply separately to each insured against whom a claim is made or suit is brought, except with respect to the limits of the insurer's liability. Coverage will not be limited to CITY's vicarious liability.

- c) Professional liability insurance policies inception date, continuity date, or retroactive date must be before the effective date of this agreement. CONSULTANT agrees to maintain continuous coverage through a period no less than three years after completion of the services required by this agreement.
- d) Except for professional liability insurance, liability coverage shall be primary and non-contributing with any insurance maintained by CITY.
- e) Evidence of coverage (including the workers' compensation and employer's liability policies) shall provide that coverage shall not be suspended, voided, canceled or reduced in coverage or in limits except after 30 days' prior written notice has been given to CITY. Such provision shall not include any limitation of liability of the insurer for failure to provide such notice. Non-payment of premium by CONSULTANT of any insurance policy required by this AGREEMENT is immediate grounds for CITY to terminate this AGREEMENT.
- f) No liability insurance coverage provided to comply with this AGREEMENT shall prohibit CONSULTANT, or CONSULTANT's employees, or agents, from waiving the right of recovery prior to a loss. CONSULTANT waives its right of recovery against CITY.
- g) CONSULTANT agrees to deposit with CITY within fifteen days of Notice to Proceed of the Contract certificates of insurance and required endorsements.
- h) There shall be no recourse against CITY for payment of premiums or other amounts with respect to the insurance required to be provided by CONSULTANT hereunder. Any failure, actual or alleged, on the part of CITY to monitor compliance with these requirements will not be deemed as a waiver of any rights on the part of CITY. CITY has no additional obligations by virtue of requiring the insurance set forth herein. In the event any policy of insurance required under this AGREEMENT does not comply with these requirements or is canceled and not replaced, CITY has the right but not the duty to obtain the insurance it deems necessary and any premium paid by CITY will be promptly reimbursed by CONSULTANT or CITY will withhold amounts sufficient to pay premium from CONSULTANT payments.
- i) CONSULTANT agrees to provide immediate notice to CITY of any claim or loss against CONSULTANT arising out of the work performed under this AGREEMENT. CITY assumes no obligation or liability by such notice, but has the right (but not the duty) to monitor the handling of any such claim or claims if they are likely to involve CITY.

City of Goleta Public Works Department and MNS Engineers, Inc Page 6 of 19

11. RELATIONSHIP OF CONSULTANT TO CITY

The relationship of the CONSULTANT to CITY shall be that of an independent contractor and that in no event shall CONSULTANT be considered an officer, agent, servant or employee of CITY. CONSULTANT shall be solely responsible for any workers compensation insurance, withholding taxes, unemployment insurance, and any other employer obligations associated with the described work.

12. STANDARD OF CARE; CORRECTIONS

CONSULTANT shall perform all Services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. CONSULTANT represents and maintains that it is skilled in the professional calling necessary to perform the Services. CONSULTANT warrants that all employees and subconsultants shall have sufficient skill and experience to perform the Services assigned to them. CONSULTANT represents that it, its employees and subconsultants have all licenses, permits, gualifications and approvals of whatever nature that are legally required to perform the Services, and that such licenses and approvals shall be maintained throughout the term of this Agreement. CONSULTANT shall perform, at its own cost and expense and without reimbursement from the CITY, any services necessary to correct errors or omissions which are caused by the CONSULTANT's failure to comply with the standard of care provided for herein. Should CONSULTANT fail to make such correction in a reasonably timely manner, such correction may be made by CITY in its sole discretion, and the cost thereof shall be charged to CONSULTANT or withheld from any funds due to CONSULTANT hereunder. Any employee of the CONSULTANT or its subconsultants who is determined by the CITY to be uncooperative, incompetent, a threat to the adequate or timely completion of the Project, a threat to the safety of persons or property, or any employee who fails or refuses to perform the Services in a manner acceptable to the CITY, shall be promptly removed from the Project by the CONSULTANT and shall not be reemployed to perform any of the Services or to work on the Project.

13. TERMINATION BY CITY

CITY, by notifying CONSULTANT in writing, may upon 10 calendar days notice, terminate without cause any portion or all of the services agreed to be performed under this AGREEMENT. If termination is for cause, no notice period need be given. In the event of termination, CONSULTANT shall have the right and obligation to immediately assemble work in progress for the purpose of closing out the job. All compensation for actual work performed and charges outstanding at the time of termination shall be payable by CITY to

> City of Goleta Public Works Department and MNS Engineers, Inc Page 7 of 19

CONSULTANT within 30 days following submission of a final statement by CONSULTANT unless termination is for cause. In such event, CONSULTANT shall be compensated only to the extent required by law.

14. ACCEPTANCE OF FINAL PAYMENT CONSTITUTES RELEASE

The acceptance by CONSULTANT of the final payment made under this AGREEMENT shall operate as and be a release of CITY from all claims and liabilities for compensation to CONSULTANT for anything done, furnished, or relating to CONSULTANT'S work or services. Acceptance of payment shall be any negotiation of CITY's check or the failure to make a written extra compensation claim within 10 calendar days of the receipt of that check. However, approval or payment by CITY shall not constitute, nor be deemed, a release of the responsibility and liability of CONSULTANT, its employees, subcontractors, agents and CONSULTANTs for the accuracy and competency of the information provided and/or work performed; nor shall such approval or payment be deemed to be an assumption of such responsibility or liability by CITY for any defect or error in the work prepared by CONSULTANT, its employees, subcontractors, agents and consultants.

15. AUDIT OF RECORDS

At any time during normal business hours and as often as it may deem necessary, CONSULTANT shall make available to a representative of CITY for examination of all its records with respect to all matters covered by this AGREEMENT and will permit CITY to audit, examine and/or reproduce such records. CONSULTANT will retain such financial records, time sheets, work progress reports, invoices, bills and project records for at least two years after termination or final payment under this AGREEMENT.

16. WAIVER; REMEDIES CUMULATIVE

Failure by a party to insist upon the strict performance of any of the provisions of this AGREEMENT by the other party, irrespective of the length of time for which such failure continues, shall not constitute a waiver of such party's right to demand strict compliance by such other party in the future. No waiver by a party of a default or breach of the other party shall be effective or binding upon such party unless made in writing by such party, and no such waiver shall be implied from any omissions by a party to take any action with respect to such default or breach. No express written waiver of a specified default or breach shall affect any other default or breach, or cover any other period of time, other than any default or breach and/or period of time specified. All of the remedies permitted or available to a party under this AGREEMENT, or at law or in equity, shall be cumulative and alternative, and invocation of any such right or remedy shall not constitute a waiver or election of remedies with respect to any other permitted or available right of remedy.

17. CONFLICT OF INTEREST

CONSULTANT is unaware of any CITY employee or official that has a financial interest in CONSULTANT'S business. During the term of this AGREEMENT and/or as a result of being awarded this AGREEMENT, CONSULTANT shall not offer, encourage or accept any financial interest in CONSULTANT'S business by any CITY employee or official.

18. CONSTRUCTION OF LANGUAGE OF AGREEMENT

The provisions of this AGREEMENT shall be construed as a whole according to its common meaning of purpose of providing a public benefit and not strictly for or against any party. It shall be construed consistent with the provisions hereof, in order to achieve the objectives and purposes of the parties. Wherever required by the context, the singular shall include the plural and vice versa, and the masculine gender shall include the feminine or neutral genders or vice versa.

19. MITIGATION OF DAMAGES

In all situations arising out of this AGREEMENT, the parties shall attempt to avoid and minimize the damages resulting from the conduct of the other party.

20. GOVERNING LAW

This AGREEMENT, and the rights and obligations of the parties, shall be governed and interpreted in accordance with the laws of the State of California. Should litigation occur, venue shall be in Superior Court of Santa Barbara County.

21. NONDISCRIMINATION

The City reaffirms its ongoing commitment to equality in the conduct of City business, and prohibits any policy, plan, program, custom or practice, including harassment, in the conduct of City business. No discrimination or discriminatory practice shall occur in either employment of persons for, or completion of, the work contemplated by this Agreement, when such discrimination is based on race, color, national origin, or ancestry; religion; sex; gender, gender identity, gender expression, or gender transitioning status; physical disability, mental disability, medical condition, or genetic information; marital or domestic partner status; citizenship status; age; sexual orientation; exercising a legally protected right to an employment leave of absence; status as a victim of domestic violence, sexual assault, or stalking; reproductive health decision-making, or any other classification protected under state or federal law. Among other possible violations of law, a violation of this section exposes CONSULTANT to the penalties provided for in Labor Code Section 1735.

22. TAXPAYER IDENTIFICATION NUMBER

CONSULTANT shall provide CITY with a complete Request for Taxpayer Identification Number and Certification, Form W-9 (Rev. October 2018), as issued by the Internal Revenue Service.

23. NON-APPROPRIATION OF FUNDS

Payments due and payable to CONSULTANT for current services are within the current budget and within an available, unexhausted and unencumbered appropriation of CITY funds. In the event CITY has not appropriated sufficient funds for payment of CONSULTANT services beyond the current fiscal year, this AGREEMENT shall cover only those costs incurred up to the conclusion of the current fiscal year.

24. MODIFICATION OF AGREEMENT

The tasks described in this AGREEMENT and all other terms of this AGREEMENT may be modified only upon mutual written consent of CITY and CONSULTANT.

25. USE OF THE TERM "CITY"

Reference to "CITY" in this AGREEMENT includes City Manager or any authorized representative acting on behalf of CITY.

26. PERMITS AND LICENSES

CONSULTANT, at its sole expense, shall obtain and maintain during the term of this AGREEMENT, all appropriate permits, licenses, and certificates that may be required in connection with the performance of services under this AGREEMENT.

27. CAPTIONS

The captions or headings in this AGREEMENT are for convenience only and in no other way define, limit or describe the scope or intent of any provision or section of the AGREEMENT.

28. AUTHORIZATION

Each party has expressly authorized the execution of this AGREEMENT on its behalf and bind said party and its respective administrators, officers, directors, shareholders, divisions, subsidiaries, agents, employees, successors, assigns, principals, partners, joint venturers, insurance carriers and any others who may claim through it to this AGREEMENT.

29. ENTIRE AGREEMENT BETWEEN PARTIES

Except for CONSULTANT'S proposals and submitted representations for obtaining this AGREEMENT, this AGREEMENT supersedes any other agreements, either oral or in writing, between the parties hereto with respect to the rendering of services, and contains all of the covenants and agreements between the parties with respect to said services.

30. PARTIAL INVALIDITY

If any provision in this AGREEMENT is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions will nevertheless continue in full force without being impaired or invalidated in any way.

31. NOTICES

Any notice required to be given hereunder shall be deemed to have been given by depositing said notice in the United States mail, postage prepaid, and addressed as follows:

TO CITY:	Attention: Robert Nisbet, City Manager City of Goleta 130 Cremona Drive, Suite B Goleta, CA 93117
TO CONSULTANT:	Attention: Taylor Merlo, P.E., Regional Construction Manager MNS Engineers, Inc 201 N. Calle Cesar Chavez, Suite 300 Santa Barbara, CA 93103

32. COUNTERPARTS AND ELECTRONIC/FACSIMILE SIGNATURES

This Agreement may be executed in several counterparts, which may be facsimile or electronic copies. Each counterpart is fully effective as an original, and together constitutes one and the same instrument.

In concurrence and witness whereof, this AGREEMENT has been executed by the parties effective on the date and year first above written.

CITY OF GOLETA

Robert Nisbet, City Manager

ATTEST

Deborah Lopez, City Clerk

APPROVED AS TO FORM:

ISAAC ROSEN, ACTING CITY ATTORNEY

signed by: Scott Shapses

Deputy City Attorney

CONSULTANT

-----Signed by:

Gry (Iulini E28193138F8F4E5., .P.E., Vice President

Miranda Patton

City of Goleta Public Works Department and MNS Engineers, Inc Page 12 of 19

EXHIBIT A

SCOPE OF WORK

Task 1: Services Prior to Construction

Contract Documents: Review contract documents prior to construction.

Meetings: Schedule, provide agenda and minutes, and lead in person preconstruction meeting.

Submittals: Review of Contractor's preconstruction submittals for compliance with Contract Documents.

Quality Control Plan: Prepare and deliver to the City two (2) copies of a project specific Quality Control Plan in compliance with Caltrans LAPM Chapter 16. Include supervision and inspection, coordinating and negotiating contract change orders, project records, tracking time, subcontractors, Daily Inspection Reports (DIRs), employment stewardship, progress payments, labor compliance documentation, accounting procedures, safety, disputes, claims management at the project level, and all other work performed under this scope. Include biological and archaeological site analysis as necessary.

Task 2: Construction Management Services

Project Schedule: Review the Contractor's schedule for compliance and meet monthly with the Contractor and City Project Manager to discuss work progress (actual vs planned progress). Evaluate and compare the Contractor's look-ahead schedule to identify any major delays.

Project Budget: Track and manage construction costs to ensure project stays within budget.

Traffic Control Plans: Evaluate and provide timely review of the Traffic Control Plans (TCPs) and provide comments to the City to assist in their review and approval of the TCPs. Coordinate the TCPs with the City, County of Santa Barbara, and other applicable affected organizations such as the impacted schools. Drive the sites daily to review the traffic control and detours, report issues, and make recommendations for improvements.

Project Controls: Measure, document, and prepare quantity sheets (based on Caltrans sheets) to approve progress pay estimates. Use quantity forecasting tool to recognize potential quantity overruns early and manage the budget. Review of Contractor's pay requests and provide recommendations to City as to acceptability of request.

WPCP: Monitor Contractor compliance with the WPCP. Review and monitor the BMPs established at each site.

Monthly Report: Prepare a Monthly Report to include with MNS's invoice including summary of items accomplished, summary of items to be completed the following months, schedule status, list of problems addressed or identified with proposed corrective actions, and a bar graph comparing the monthly and cumulative invoice amounts with the total authorized construction management budget.

Records Management: Utilize CMIS for project record keeping.

Communication and Coordination: Construction activity outreach and coordination with the Contractor, City Public Works, City Council, Designer, County, and utility representatives. Notification and coordination of project issues with all involved and appropriate City departments, public and private agencies, City residents, and the general public.

Contract Compliance: Monitor and record the Contractor's daily activities for contract compliance. Identification and resolution of safety issues.

Submittals: Review of Contractor's submittals for compliance with Contract Documents.

Requests for information (RFI): Review of Contractor's requests for information (RFIs) and either provide information from Contract Documents back to the Contractor or route request to Engineer of Record for resolution.

Train City Staff: Provide in field training for City Project Manager and City Inspector 2 hours per day on construction management, inspection, and testing activities. Training includes but is not limited to pre-paving inspections, paving inspections, concrete inspections, calibrations, and material documentation and testing, quantity measurements, survey layout and staking verification, change order independent cost analysis and time impact analysis, claim management, labor compliance and project closeout.

Task 2.1: Construction Contract Administration

Meetings: Prepare agendas, minutes, action items, and facilitate weekly meetings. Agendas include the updated logs for submittals, RFIs, and CCOs to provide progress updates, and identify safety concerns. Require the Contractor to provide weekly look-ahead schedules to include with meeting agenda. Distribute meeting agendas a minimum of 2-hours prior to each meeting and meeting minutes a maximum of 4-hours after each meeting.

Document Control: Organize project filing system utilizing CMIS to review, track, coordinate, and

log submittals, shop drawings, change orders, pay requests, correspondence, RFIs, and change

directives. Submittals, shop drawings, and the progress schedule will be stamped as necessary.

Certified Payroll/Labor Compliance: Review Contractor's certified payroll on a weekly basis for compliance utilizing CMIS and conduct labor interviews monthly.

Weekly Statement of Working Days: Prepare, track, and distribute weekly statement of working days to the Contractor at the end of each work week.

Task 2.2: Change Order Management

Evaluate change orders for merit and coordinate with the Contractor to analyze the supporting costs in comparison with independent cost analysis and Time Impact Analysis. Investigate and inspect site conditions that differ from those described in the Contract Documents. Approach the project with a "partnering" mentality to resolve issues at the lowest possible level within the dispute escalation ladder. If a claim arises, analyze additional compensation claims submitted and prepare responses. Utilize City provided change order memo template and forms to develop change order documentation. Follow City review and approval process for executing change orders. Maintain and track change order log to ensure the project stays within the allowable change order authority.

Task 2.3: Field Inspection

Inspection: Inspect work for compliance with plans, specifications, permits, City Quality Assurance Plan (QAP), and applicable federal, state, and local codes. Monitor corrective actions taken by Contractor needed to fix work that is not in compliance with the Contract Documents. Document inspection in DIRs. Measure quantities installed and receive Contractor's agreement at the end of each work day. Include quantities for each bid item in DIRs. Take photographs and record video during and post-construction. Photographs will be included in the DIRs and electronically filed via CMIS. Complete DRs no later than 9:00 AM the following working day. Attend daily and weekly Contractor safety meetings. Review of Contractor's compliance with workplace safety and health standards and notification of City of non-compliance.

Materials Testing: Provide materials testing and special inspections. Verify that materials used comply with the City's QAP and contract documents. Utilize CMIS to document results.

Permitting Compliance and Monitoring: Provide biological monitoring and regulatory

City of Goleta Public Works Department and MNS Engineers, Inc Page 15 of 19 permitting support services to verify compliance with permit and mitigation measures, including WPCP and arborist services.

Arborist Services: Assess trees and provide feedback on mitigating tree impacts. Additionally, provide recommendations on tree removal. Provide daily reports when assessments are required,

Biologist Services: Conduct bird survey and biological monitoring as necessary. Provide daily reports when bird surveys or biological monitoring take place.

Task 2.4: Public Outreach

Webpage – KMP will develop content, secure graphic images, and work with City staff to ensure the pavement program webpage is updated through construction, assumes up to 6 updates during contract duration. The page will serve as the primary information portal. Includes coordination with City staff to upload information.

Information Line – KMP will utilize the City's dedicated pavement program email address and phone number. Business cards will be produced with the phone number, email address, and QR code, providing stakeholders with a convenient way to reach the project team. Construction crews will carry the cards and provide them to those seeking project information. KMP will manage the information line through construction and all interactions will be logged in a project database; assumes up to 20 interactions per month.

Collateral Materials – KMP will develop copy, graphic design the materials/notifications, and manage the printing and mailing of all collateral materials, as follows. All materials will be developed in English and Spanish.

The following templates, developed under the pavement management program, will be updated, printed and mailed:

- Postcard will be mailed to owners/tenants immediately following Council approval of the MNS CM contract. City will provide a mailing database that includes owners and occupants, up to 2,000 copies. Postcards will not be mailed to the northeast neighborhood project area as they will have already received notification in connection with the open house.
- Door Hanger hand delivered by the contractor/inspector to each parcel, in each project area, approximately one week and again one day in advance of construction. The door hanger will indicate important construction information, such as the approximate window of construction. The construction timing details can be written with a permanent marker/label affixed by the contractor. To save on printing costs, additional copies for the 2025 Residential Resurfacing will be produced in a single print run under this sub-agreement, up to 5,000 total.

 No Parking Notification – up to 1,000 notifications, already designed, will be updated (if necessary) and printed. The notifications will be provided to the contractor and CM team to place on vehicle windshields in advance of and during construction. The notifications will indicate that there is no street parking during construction. To save printing costs the 2025 Residential Resurfacing no parking notifications are included in this print run.

Existing City Communication Channels – KMP will draft two articles, to be disseminated via Monarch Press at project milestones, up to 3 social media posts that can be shared on the City's existing social media channels and 3 traffic alerts to be emailed via the City's GovDelivery system. Social media posts can also be provided to businesses, neighborhood groups, schools and City elected officials to be shared on their channels to broaden the reach.

Stakeholder Outreach – Identify parcels/groups (i.e., schools and businesses) impacted by construction activities and, in partnership with the City, facilitate conversations in advance of (as possible) and during construction. KMP will maintain relationships for the duration of the construction work and serve as the primary point of contact during construction.

Outreach Management & Strategic Guidance – KMP and MNS will work together to integrate public outreach and solve issues. KMP will attend in person/remotely the pre-construction meeting and weekly construction management meetings, provide monthly reporting of completed activities and ongoing strategic guidance to help navigate unforeseen public engagement needs as construction progresses.

Task 3: Services During Construction Closeout

Substantial and Final Completion Services: Prepare a punch list and track items that are incomplete, require corrective action, or are subject to testing.

Record Compilation and Submittal: The final project records will be organized in accordance with the Caltrans LAPM and delivered to the City electronically via CMIS. Review and comment on as-builts each payment cycle to confirm accurate reflection of modifications from the design plan set. Provide a signed certification with each payment cycle.

Obtain Warranty and Lien Release Information: Collect warranty and lien information, including software licenses for traffic devices, training, and manuals prior to final

acceptance.

Final Electronic Submittal: Deliver audit-ready project records in accordance with Caltrans LAPM to the City electronically via CMIS.

City of Goleta Public Works Department and MNS Engineers, Inc Page 18 of 19

EXHIBIT B

SCEHDULE OF FEES



2025 STANDARD SCHEDULE OF FEES

PROJECT/PROGRAM MANAGEMENT

ENGINEERING

.....

Principal Engineer
Lead Engineer
Supervising Engineer
Senior Project Engineer
Project Engineer
Associate Engineer
Assistant Engineer

....

SURVEYING

Principal Surveyor	\$295
Lead Surveyor	
Supervising Surveyor	
Senior Project Surveyor	
Project Surveyor	195
Associate Project Surveyor	185
Assistant Project Surveyor	170
Party Chief (PW)	200
Chainperson (PW)	170
One-Person Survey Crew (PW)	

TECHNICAL SUPPORT

CADD Manager\$21	0
Supervising Technician	5
Senior Technician 17	5
Engineering Technician 14	0

CONSTRUCTION MANAGEMENT

Principal Construction Manager	\$360
Senior Construction Manager	310
Senior Resident Engineer	
Resident Engineer	275
Structure Representative	
Construction Manager	
Assistant Resident Engineer	
Sr. Construction Inspector (PW) .	200
Construction Inspector (PW)	188
Office Administrator	140

PLANNING

Planning Director \$250
City Planner/Planning Manager
Principal Planner
Senior Planner 200
Associate Planner 170
Assistant Planner 140
Planning Technician 120

ADMINISTRATIVE SUPPORT

Senior Management Analyst\$2	\$210	
Management Analyst 1	80	
IT Technician1	50	
Graphics/Visualization Specialist1	60	
Administrative Assistant1	10	

DIRECT EXPENSES

Use of outside consultants as well as copies, blueprints, survey stakes, monuments, computer plots, telephone, travel (out of area) and all similar charges directly connected with the work will be charged at cost plus ten percent (10%). Mileage will be charged at the current federal mileage reimbursement rate.

PREVAILING WAGE RATES

Rates shown with Prevailing Wage "(PW)" annotation are used for field work on projects subject to federal or state prevailing wage law and are subject to increases per DIR.

ANNUAL ESCALATION

Standard fee rates provided for each classification are subject to 5% annual escalation or the most recent US Bureau of Labor Statistics Consumer Price Index, whichever is higher.

OVERTIME

Overtime for non-exempt employees will be charged at 1.5 x hourly rate; overtime for exempt employees and other classifications will be charged at 1 x hourly rate.

Rev. 1/21/2025

City of Goleta Public Works Department and MNS Engineers, Inc Page 19 of 19

GOVERNMENT SERVICES

\$280

City Lingineer	
Deputy City Engineer	250
Assistant City Engineer	
Plan Check Engineer	195
Permit Engineer	185
City Inspector	175
Senior City Inspector (PW)	200
City Inspector (PW)	188
Principal Stormwater Specialist	
Senior Stormwater Specialist	
Stormwater Specialist	180
Stormwater Technician	160
Building Official	275
Senior Building Inspector	
Building Inspector	185
Senior Grant Writer	
Grant Writer	190
Associate Grant Writer	170
Assistant Grant Writer	155

ATTACHMENT 3

Resolution No. 25-___ entitled "A Resolution of the City Council of the City of Goleta, California, finding the 2025 Arterial Pavement Rehabilitation Project Categorically Exempt from the California Environmental Quality Act (CEQA) Pursuant to State CEQA Guidelines Section 15301"

RESOLUTION NO. 25-XX

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GOLETA, CALIFORNIA, FINDING THE 2025 ARTERIAL PAVEMENT REHABILITATION PROJECT CATEGORICALLY EXEMPT FROM THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) PURSUANT TO STATE CEQA GUIDELINES SECTION 15301

WHEREAS, the 2025 Pavement Rehabilitation Project ("Project") includes removal and replacement of HMA pavement, pulverizing, localized dig outs, microsurface 2024 slurry seal, and replacement of traffic striping and marking; and

WHEREAS, on February 4, 2025, City Council approved plans and specifications and authorized staff to advertise a notice inviting construction bids for the 2025 Pavement Rehabilitation Project; and

WHEREAS, an Invitation to Bid was advertised on April 10, 2025, and electronic bids were received on May 12, 2025; and

WHEREAS, Granite Construction Company, Inc. was determined to be the responsible bidder submitting the lowest responsive bid; and

WHEREAS, in accordance with CEQA, the City has determined that the proposed action is categorically exempt from CEQA review pursuant to State CEQA Guidelines Section 15301 (Existing Facilities); and

WHEREAS, all other legal prerequisites to the adoption of this Resolution have occurred.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GOLETA, AS FOLLOWS:

<u>SECTION 1</u>. Recitals. The City Council hereby finds and determines that the foregoing recitals, which are incorporated herein by reference, are true and correct.

SECTION 2. The City Council finds, in light of the whole record, that the 2025 Pavement Rehabilitation Project is .categorically exempt from environmental review pursuant to State CEQA Guidelines Section 15301 (Class 1). The Project qualifies for the Class 1 exemption because it involves repairs and minor alterations to existing public facilities, including streets, with negligible or no expansion of existing or former use, and does not include the addition of any automobile lanes or expansion of the roadway. Thus, no further environmental review is required.

In addition, none of the exceptions set forth in State CEQA Guidelines Section 15300.2 apply. None of the exceptions to the exemption under CEQA Guideline 515300.2 apply: there is no possibility of a significant cumulative impact as staff does not anticipate that other projects of the same type will take place at the Project site or the surrounding area. The Property does not present any unusual circumstances that might result in significant impacts. The Project area is developed and does not contain any environmentally sensitive areas. The Project would not damage any scenic resources, including trees, historic buildings, rock outcroppings or similar resources, within a highway officially designated as a state scenic highway. The Project is not located on a hazardous waste site or any other site included on a list compiled pursuant to Government Code section 65962.5 and the proposed Project will not cause a substantial adverse change in the significance of a historical resource because there are no historical resources near the proposed project such that project impacts would not have any substantial adverse changes in the significance of a historical resource.

The City Council hereby directs staff to prepare, execute, and file a Notice of Exemption with the County Clerk and the State Clearinghouse within five (5) working days of the Project's approval and adoption of this Resolution.

<u>SECTION 3.</u> Action. The City Council hereby approves the categorical exemption for the 2025 Pavement Rehabilitation Project and directs staff to file the Resolution.

<u>SECTION 4</u>. Reliance on Record. Each and every one of the recommendations in this Resolution is based on the competent and substantial evidence, both oral and written, contained in the entire record relating to the 2025 Pavement Rehabilitation Project. The findings and determinations constitute the independent findings and determinations of the City Council in all respects and are fully and completely supported by substantial evidence in the record as a whole.

SECTION 5. The documents and materials associated with this Resolution that constitute the record of proceedings on which these findings are based are located at City Hall, 130 Cremona Drive Goleta, CA 93117. The Planning and Environmental Services Director is the custodian of the record of proceedings.

SECTION 6. Summaries of Information. All summaries of information in the findings, which precede this section, are based on the substantial evidence in the record. The absence of any particular fact from any such summary is not an indication that a particular finding is not based in part on that fact

<u>SECTION 7.</u> This Resolution will remain effective until superseded by a subsequent resolution.

<u>SECTION 8</u>. The City Clerk shall certify to the passage and adoption of this resolution and enter it into the book of original resolutions.

PASSED, APPROVED AND ADOPTED this 17th day of June 2025.

PAULA PEROTTE MAYOR

ATTEST:

APPROVED AS TO FORM:

DEBORAH S. LOPEZ CITY CLERK ISAAC ROSEN CITY ATTORNEY STATE OF CALIFORNIA)COUNTY OF SANTA BARBARA)CITY OF GOLETA)

SS.

I, DEBORAH S. LOPEZ, City Clerk of the City of Goleta, California, DO HEREBY CERTIFY that the foregoing Resolution No. 25-___ was duly adopted by the City Council of the City of Goleta at a regular meeting held on the ____ day of _____, 2025 by the following vote of the Council:

AYES:

NOES:

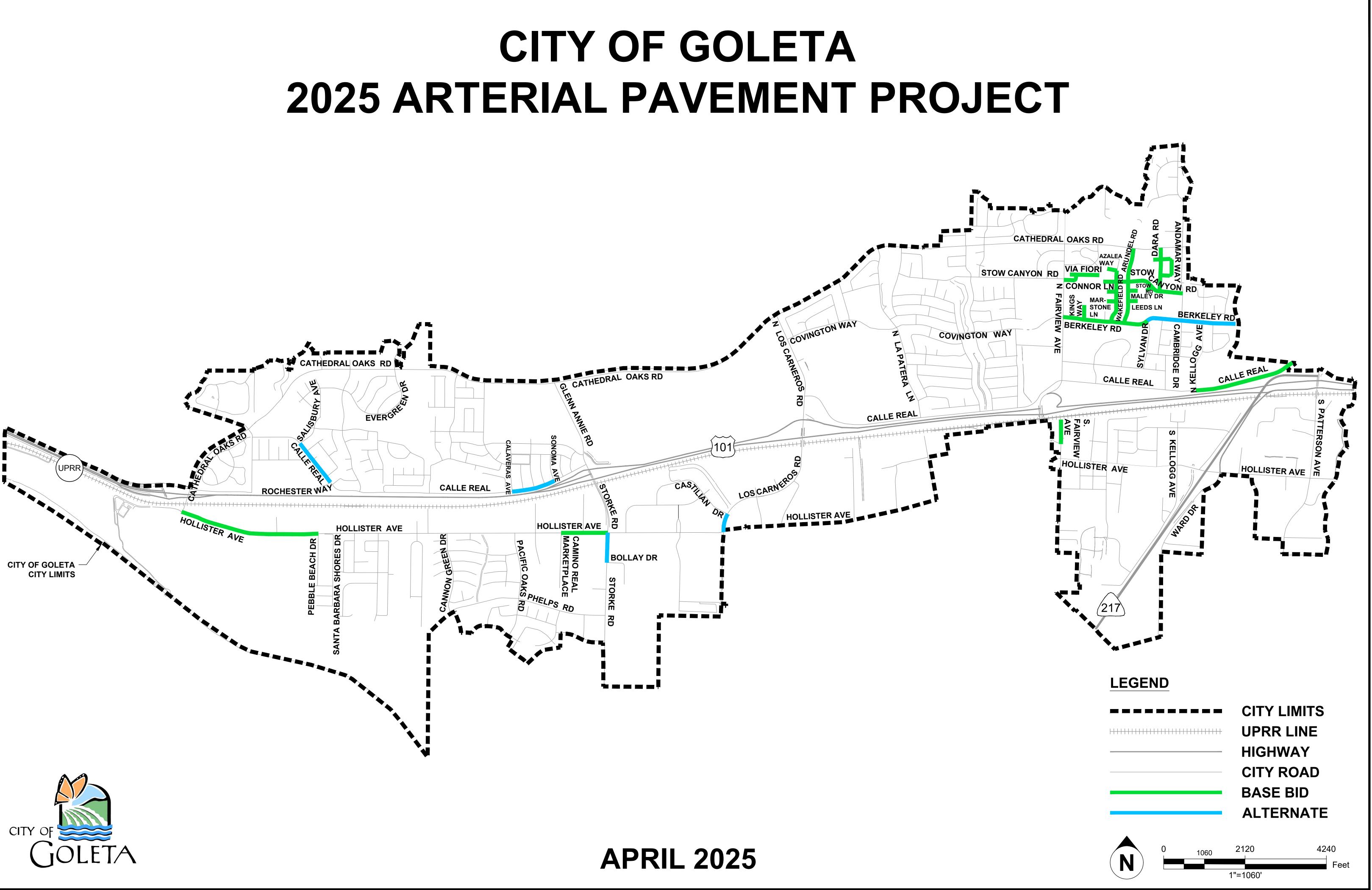
ABSENT:

(SEAL)

DEBORAH S. LOPEZ CITY CLERK

ATTACHMENT 4

2025 Arterial Pavement Project Map



ATTACHMENT 5

2025 Arterial Pavement Project Bid Document



BOOK 1 OF 2 BID BOOK

FOR

2025 ARTERIAL PAVEMENT PROJECT CITY PROJECT NUMBER: <u>N/A</u>

FOR USE WITH CALTRANS STANDARD SPECIFICATIONS DATED <u>2018</u>, CALTRANS STANDARD PLANS DATED <u>2018</u> AND LABOR SURCHARGE AND EQUIPMENT RATES OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION INSOFAR AS THE SAME MAY APPLY AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

<u>Pre-Bid Meeting</u> :	Bids to be received before:
<u>N/A</u>	3:00 P.M on May 12 th , 2025
City of Goleta, 130 Cremona Drive, Suite B Goleta, CA 93117	PlanetBids

CITY OF GOLETA



BOOK 1 OF 2

BID BOOK

FOR

2025 ARTERIAL PAVEMENT PROJECT CITY PROJECT NUMBER: N/A

Received By:

— Signed by: Mna Bulna — 193EE6F31C37476...

Luz "Nina" Buelna, P.E.

Public Works Director

The Engineers whose stamp and signature appear herein are in responsible charge of preparing these plans and specifications.

Signautre Page
ADDENDUM 1

City of Goleta

Contract Documents

2025 Arterial Pavement Project

Table Of Contents

SECTION I NOTICE TO CONTRACTORS	NTC-1
SECTION II BIDDING INSTRUCTIONS	BI-1
SECTION III PROPOSAL	PROP-1
SECTION IV AGREEMENT	1
SECTION V INSURANCE AND BONDS	INS 1
SECTION VI CITY OF GOLETA CONSTRUCTION SPECIFICATIONS	GCS-1
SECTION VII SPECIAL PROVISIONS	SP-1

SECTION I

NOTICE TO CONTRACTORS

NOTICE TO CONTRACTORS INVITING SEALED BIDS FOR THE 2025 ARTERIAL PAVEMENT PROJECT

City Project Number: N/A

PUBLIC NOTICE IS HEREBY GIVEN that the City of Goleta ("CITY"), invites sealed bids for the above stated project and will receive such bids via electronic transmission on the City of Goleta Planet Bids portal site until **May 12, 2025, at 3:00 P.M.** Late proposals will be rejected. No exceptions.

Copies of the Contract Documents and the Proposal Forms for bidding the project, may be obtained from the PlanetBids Website: <u>https://pbsystem.planetbids.com.</u> Proposals which do not acknowledge addendums to the project documents will be rejected.

All communications relative to this project shall be conducted through PlanetBids. Questions about alleged patent ambiguity of the plans, specifications, or estimate must be asked before bid opening. After bid opening, the CITY does not consider these questions as bid protests.

A pre-bid meeting will be held at <u>N/A</u>.

It is required that the Bidders have fully inspected the Project site in all particulars and become thoroughly familiar with the terms and conditions of the Bid Plans and Special Provisions and local conditions affecting the performance and costs of the Work prior to bidding and it is recommended that this be done prior to attending this meeting.

Pursuant to California Labor Code Section 1773, the City has ascertained the General Prevailing Rate of Wages in the County in which the work is to be done to be as determined by the Director of Industrial Relations of the State of California. Contractor is hereby made aware that information regarding prevailing wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: <u>https://www.dir.ca.gov/OPRL/2025-1/PWD/Southern.html</u>. The Contractor is required to post a copy of the applicable wage rates at the job site. Attention is directed to Section 7 "Legal Relations and Responsibility to the Public" of the Standard Construction Specifications.

The California Air Resources Board ("CARB") implemented amendments to the In-Use Off-Road Diesel-Fueled Fleets Regulations ("Regulation") which are effective on January 1, 2024 and apply broadly to all self-propelled off road diesel vehicles 25 horsepower or greater and other forms of equipment used in California. A copy of the Regulation is available at <u>https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2022/off-roaddiesel/appa-1.pdf</u>. Bidders are required to comply with all CARB and Regulation requirements, including, without limitation, all applicable sections of the Regulation, as codified in Title 13 of the California Code of Regulations section 2449 *et seq.* throughout the term of the Project. Bidders must provide, with their Bid, copies of Bidder's and all listed subcontractors the most recent, valid Certificate of Reported Compliance ("CRC") issued by CARB. Failure to provide valid CRCs as required herein may render the Bid non-responsive.

Bidders must be registered on the City of Goleta's PlanetBids portal in order to receive addendum notifications and to submit a bid. Go to PlanetBids for bid results and awards. It is the responsibility of the bidder to submit the bid with sufficient time to be received by PlanetBids prior to the bid opening date and time. Allow time for technical difficulties, uploading, and unexpected delays. Late or incomplete bids will not be accepted.

Bid must be accompanied by a bid security in the form of a money order, a certified cashier's check, or bidder's bond executed by an admitted surety, made payable to CITY. The bid security shall be an amount equal to ten percent (10%) of the total annual bid amount included with their proposals as required by California law.

Note: All bids must be accompanied by a scanned copy of the bid security uploaded to PlanetBids. The original security of the three (3) lowest bidders must be mailed or submitted to the office of the City Clerk at 130 Cremona Drive, Suite B, Goleta, California 93117, in a sealed envelope and be received or postmarked within three (3) City working days after the bid due date and time for the bid to be considered. The sealed envelope should be plainly marked on the outside, "SEALED BID SECURITY FOR <u>2025 ARTERIAL PAVEMENT PROJECT</u>."

The Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations (DIR) per California Labor Code Section 1771.4, including prevailing wage rates and apprenticeship employment standards. Affirmative action to ensure against discrimination in employment practices on the basis of race, color, national origin, ancestry, sex, or religion will also be required. The CITY hereby affirmatively ensures that all business enterprises will be afforded full opportunity to submit bids in response to this notice and will not be discriminated against on the basis of race, color, national origin, ancestry, sex, or religion in any consideration leading to the award of contract.

In accordance with the California Public Contract Code 20103.5 when federal funds are involved in local agency contracts, no bid shall be invalidated by the failure of the bidder to be licensed in California at the time of bid opening. However, at the time of award, the selected contractor shall be properly licensed in accordance with the laws of the State and the City of Goleta. Contractor shall possess a valid **Class A - General Engineering Contractor** license prior to award of Contract. Said license shall be maintained during the contract period. It is the Bidder's and Contractor's responsibility to obtain the correct Contractor's licenses. Bidders shall be skilled and regularly engage in the general class or type of work called for under this contract.

The successful Bidder will be required to furnish a Performance Bond and a Payment Bond each in an amount equal to 100% of the Contract Price. Each bond shall be in the forms set forth herein, shall be secured from a surety company that meets all State of California bonding requirements, as defined in Code of Civil Procedure Section 995.120, and that is a California admitted surety insurer.

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the DIR. No Bid will be accepted, nor any contract entered into without proof of the contractor's and subcontractors' current registration with the DIR to perform public work. If awarded a contract, the Bidder and its subcontractors, of any tier, shall maintain active registration with the DIR for the duration of the Project. Failure to provide proof of the contractor's

current registration pursuant to Labor Code Section 1725.5 may result in rejection of the bid as non-responsive.

The Contractor Company, including the Responsible Managing Officer (RMO) for the Contractor Company, shall demonstrate a minimum of five (5) years' experience successfully performing projects of substantially similar type, magnitude, and character of the work bid. The CITY reserves the right to reject all bids, reject any bid that is not responsive to the invitation, or to waive any minor irregularity and to take all bids under advisement for a period of up to ninety (90) working days. Failure to provide proof of the Contractor's current registration pursuant to Section 1725.5 of the Labor Code may result in rejection of the bid as non-responsive. Failure to comply with enforcement provisions pursuant to Section 1771.4 of the Labor Code may result in a determination that the Bidder is not responsible.

Bids shall remain open and valid for a period of one hundred twenty (120) calendar days after the Bid Deadline.

Pursuant to Public Contract Code section 22300, the successful bidder may substitute certain securities for funds withheld by CITY to ensure performance under the Contract or, in the alternative, request the CITY to make payment of retention to an escrow agent.

The U.S. Department of Transportation (DOT) provides a toll-free "hotline" service to report bid rigging activities. Bid rigging activities can be reported Mondays through Fridays, between 8:00 a.m. and 8:00 p.m., Eastern Time, Telephone No. 1-800-424-9071. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report these activities. The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially, and caller anonymity will be respected.

Any protest to an intended award of this contract shall be made in writing addressed to the City Clerk prior to the award. Any protest may be considered and acted on by the City Council at the time noticed for award of the contract. To request a copy of the notice of agenda for award, please contact the City Clerk cityclerkgroup@cityofgoleta.org or register on the CITY's website (www.cityofgoleta.org).

CITY OF GOLETA

Deborah S. Lopez, City Clerk

Published:

Santa Barbara Independent: April 10, 2025, and April 17, 2025

END OF NOTICE TO CONTRACTORS

END OF NOTICE TO CONTRACTORS

SECTION II

BIDDING INSTRUCTIONS

SECTION II BIDDING INSTRUCTIONS

- **1 DEFINITIONS.** Unless provided otherwise, the definitions in the contract documents are applicable to all contract documents.
 - **1.1** "Addenda" means written or graphic instruments issued by the City before the bid deadline that modify or interpret the contract documents by additions, deletions, clarifications, or corrections.
 - **1.2** "Alternate" means an amount stated in the bid for which the Bidder offers to perform the Work described in the Bidding Documents as Alternate Work, to be added or deducted from the Total Base Bid, which shall be Contractor's responsibility if City accepts the Alternate Bid Item.
 - **1.3** "Bid Deadline" means the date and time designated in the notice inviting sealed bids as the last date and time for receipt of bids, as may be revised by addenda.
 - **1.4** "Bidder" means a person or firm that submits a bid.
 - **1.5** "Bidding/Contract Documents" means the Contract, Addenda, Notice to Contractors, bidding instructions, Bid (including documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Completion) when attached as an exhibit to the Contract, the Bonds, permits from jurisdictional regulatory agencies, City of Goleta Construction Specifications, Special Provisions, Plans, State Standard Plans, State Standard Specifications, Revised State Standard Specifications, Labor Surcharge and Equipment Rental Rates, Work Directives, Reference Specifications, Change Orders, Supplemental Agreements, Appendices, Project Plans and any other applicable documents not listed, including modifications incorporated in those documents.
 - **1.6** "Contract Price" means the total aggregate amount of the Contractor's bid price based on the estimated quantities listed in the Bidding Sheet as set forth in the award of the Contract approved by the City Council, subject to adjustment for variances in quantities and changes pursuant to Change Orders executed in accordance with the Contract Documents.
 - **1.7** "Inspector" means the person designated by the engineer to ensure specification compliance.
 - **1.8** "Total Base Bid" means the sum stated in the bid for which bidder offers to perform the Work described in the contract documents, but not including alternates.
 - **1.9** "Unit or Contract Unit Price" means an amount entered in the bid by bidder or a "Contract Item" price established by the City in the bid, as a price per unit of measurement for payment for materials, equipment or services including taxes, supervision, overhead and profit for a portion of the work described in the Contract Documents.

2 **BIDDER'S REPRESENTATIONS.** By making its bid, bidder represents that:

- **2.1** Bidder has read, understood, and made the bid pursuant to the requirements in the Contract Documents.
- **2.2** The Bidder, at its sole cost and expense, has carefully examined the Contract Documents and visited the Project site to become fully acquainted with the local site conditions affecting the Work to be performed including transportation, disposal, handling, and storage of materials.
- **2.3** The bid and the Contract Unit Prices bid are based upon the labor, materials, equipment, and systems required by the Contract Documents.
- 2.4 Bidder and all subcontractors, regardless of tier, have the appropriate registrations and current licenses issued by the State of California Contractor's State License Board and Department of Industrial Relations (DIR) for the Work to be performed. If bidder is a joint venture, the bidder will have a joint venture license appropriate for the performance of the Work, and each member of the joint venture will likewise have the appropriate license. Business and professions code §§ 7000-7191 establish licensing requirements for contractors. If a bidder, that is a specialty contractor, submits a bid involving 3 or more specialized building trades, the Work of which is more than incidental and supplemental to the performance of the Work for which bidder holds a specialty contractor license, bidder must also hold either (1) a specialty contractor "C" license in each such trade or (2) a general engineering contractor "A" license. This requirement is applicable whether or not bidder lists a subcontractor for each such trade.
- **2.5** Bidder shall have the expertise, including the Responsible Managing Officer (RMO) for the Contractor Company, demonstrating a minimum of five (5) years' experience successfully performing projects of the same type, magnitude, and character of the work bid, and financial capacity to perform and complete all obligations under the Contract Documents.
- **2.6** Bidder is aware of and, if awarded the contract, will comply with legal requirements in its performance of the Work.
- **2.7** Bidder is aware of and, if identified as the apparent lowest responsible bidder, would be required to pay City business license fee(s).
- **2.8** Bidder shall not damage or endanger and shall preserve and protect adjacent properties.
- **2.9** Bidder has familiarized itself with the staging and material storage constraints of the Project site and surrounding buildings and will confine its staging and storage operations to approved areas.

- **2.10** Bidder will coordinate its construction activities with the other contractors and utility companies performing work on the Project site, if any, including, but not limited to, any separate contractor retained by the City.
- 2.11 Bidder has checked the figures set forth in the bid schedule and understands that neither the City nor any officer or employee therefore will be responsible for any misunderstandings, errors, or omissions on the part of the Bidder in submitting its Bid. The failure of a Bidder to receive or examine any of the Contract Documents or to inspect the site shall not relieve such Bidder from any obligation with respect to the Bid, the Contract, or the Work required under the Contract Documents.

3 CONTRACT DOCUMENTS.

- **3.1** Bidders may obtain complete sets of the Contract Documents from PlanetBids.
- **3.2** Bidders will use a complete set of Contract Documents in preparing bids.
- **3.3** The City makes copies of the Contract Documents available, on the above terms, for the sole purpose of obtaining bids for the Work and does not confer a license or grant permission for any other use of the Contract Documents.
- **3.4** The City does not assume any liability or responsibility based on any defective or incomplete copying, excerpting, scanning, faxing, downloading, or printing of the Contract Documents.

4 INTERPRETATION OR CORRECTION OF CONTRACT DOCUMENTS.

- **4.1** Before submitting its bid, bidder will carefully study and compare the various documents comprising the Contract Documents and compare them with any other work being bid concurrently or presently under construction which relates to the Work for which the bid is submitted; will examine the project site, the conditions under which the Work is to be performed, and the local conditions; and will at once report to the City's representative errors, inconsistencies, or ambiguities discovered. The drawings and specifications contained in these Contract Documents do not constitute a representation or warranty that any conditions shown therein actually exist. All soil and test hole data, groundwater elevations, and soil analyses shown on the Plans or included in the Special Provisions apply only at the location of the test holes and to the depths indicated.
- **4.2** Bidder requests for clarification or interpretation of the Contract Documents will be addressed to the City's representative at least five (5) calendar days before the bid deadline.
- **4.3** Clarifications, interpretations, corrections, and changes to the Contract Documents will only be made by addenda. Purported clarifications,

interpretations, corrections, and changes to the Contract Documents made in any other manner will not be binding and bidders will not rely upon them.

5 PRODUCT SUBSTITUTIONS.

5.1 No requests for product substitutions will be considered before award of contract.

6 SUBCONTRACTORS.

- 6.1 Each bidder will list in the proposal form all first-tier subcontractors that will perform work, labor or render such services in excess of $\frac{1}{2}$ of one percent of the total bid of the total bid or \$10,000, whichever is greater. The proposal form contains spaces for the following information when listing subcontractors: (1) work activity; (2) name of subcontractor; (3) city of subcontractor's business location; (4) California contractor's license number, and (5) DIR public works contractor registration number. An inadvertent error in listing the California contractor's license number or public works contractor registration number shall not be grounds for filing a bid protest or grounds for considering the bid nonresponsive if the corrected contractor's license number is submitted to the City by the Bidder within 24 hours after the bid opening and provided the corrected contractor's license number corresponds to the submitted name and location for that subcontractor. Failure to list any of these other items on the proposal form will result in the City treating the bid as if no subcontractor was listed for the work and that bidder represents to the City that it is fully qualified to perform that portion of the Work and will so perform such Work.
- **6.2** Substitution of subcontractors after the bid deadline who are listed in the proposal form will only be allowed with the City's written consent and in accordance with California law.

7 ADDENDA.

- **7.1** Before the Bid Deadline, the City may modify the Work, the Contract Documents or any portion(s) thereof by the issuance of written addenda. Addenda will be in writing and issued only by the City.
- **7.2** Bidders must be registered on the City's PlanetBids portal to receive addendum notifications. Addenda will be posted on the PlanetBids portal.
- 7.3 Addenda will be made available on PlanetBids.
- **7.4** The City will issue addenda so that they are received by prospective bidders not less than three (3) working days before the bid deadline. Addenda that withdraw the request for bids or postpone the bid deadline may be issued any time before the bid deadline.

7.5 Each bidder is responsible for ensuring that it has received all issued addenda before submitting a bid. All bidders are required to acknowledge and confirm receipt of each and every addendum in their Bid Proposal Form. Failure to acknowledge all Addenda may result in a Bid being deemed nonresponsive and not eligible for award of the Contract.

8 NOT USED

9 FORM AND STYLE OF BIDS.

- **9.1** Bids will be submitted on the proposal forms included with the Contract Documents. Bids not submitted on the City's proposal forms will be rejected. All blanks on the proposal form will be filled in legibly.
- **9.2** Bidder's failure to submit a price for any alternate or unit price will result in the bid being considered as non-responsive. If alternates are called for and no change in the lump sum base bid is required, enter "no change."
- **9.3** Each bidder must fill out the "bidders statement of past contract disqualifications" form stating any and all instances of contract disqualifications due to a violation of a law or safety regulation. The bidder must explain the circumstances of each disqualification.
- **9.4** Bidder will make no stipulations on the proposal form nor qualify the bid in any manner.
- **9.5** The bids will be based upon full completion of all the Work as shown on the plans and specifications. It is expressly understood that the plans are drawn with as much accuracy as is possible in advance, but should errors, omissions or discrepancies exist in the plans which show conditions that vary from those encountered in construction, the bidder (if awarded the contract) specifically agrees to construct a completed Work ready for the use and in the manner which is intended.
- **9.6** The proposal forms will be signed by a person or persons legally authorized to bind bidder to a contract. Bidder's representative will sign and date the declaration of eligibility to contract included in the proposal form. Failure to sign and date the declaration will cause the bid to be rejected.

10 BID SECURITY.

- **10.1** Each bid must be accompanied by bid security, in the amount of 10% of the Total Base Bid on the base Contract Work, excluding any Alternate Bid Items, as security for bidder's obligation to enter into a contract with the City on the terms stated in the proposal form and to furnish all items required by the Contract Documents.
- **10.2** All bids must be accompanied by a scanned copy of the bid security uploaded to PlanetBids. The original security of the three (3) apparent lowest bidders must be mailed to the office of the City Clerk at 130 Cremona Drive, Suite B, Goleta, California 93117, in a sealed envelope

and be received or postmarked within three (3) City working days of the bid due date and time for the bid to be considered. The sealed envelope should be plainly marked on the outside identifying the names as shown in the notice inviting sealed bids.

- **10.3** If the apparent lowest responsible bidder fails to sign the contract and furnish all items required by the contract documents within the time limits specified in these bidding instructions, the City may reject such bidder and select the next apparent lowest responsible bidder until all bids have been exhausted or the City may reject all bids. In the event the bid is rejected, such bidder will be liable for and forfeit to the City the amount of the difference, not to exceed the amount of the bid security, between the amount of the disqualified bid and the larger amount for which the City procures the Work. The City may also use the bid security to cover the cost of rebidding the project.
- **10.4** If a bid bond is submitted and an attorney-in-fact executes the bid bond on behalf of the surety, a notarized and current copy of the power of attorney will be affixed to the bid bond. The surety issuing the bid bond must be admitted to provide surety within the State of California.
- **10.5** The City will retain the bid security until the occurrence of one of the following:
 - **10.5.1.1** All items required by the contract documents have been furnished and the contract has been signed by the successful bidder and the City.
 - **10.5.1.2** The specified time has elapsed during which bids may be withdrawn.
 - **10.5.1.3** All bids have been rejected.

11 BID DELIVERY.

- **11.1** The proposal forms, bid security, and all other documents required to be submitted with the bid must be submitted via electronic transmission on the City of Goleta PlanetBids portal site. Line Items in PlanetBids will be removed and the bidder shall submit the schedule of bid items using the proposal form in the Contract Documents.
- **11.2** Bidders must be registered on the City of Goleta's PlanetBids portal in order to submit a bid. Go to PlanetBids for bid results and awards. It is the responsibility of the bidder to submit the bid with sufficient time to be received by PlanetBids prior to the bid opening date and time. Allow time for technical difficulties, uploading, and unexpected delays. Late or incomplete bids will not be accepted.
- **11.3** Bid Security shall be submitted in accordance with Section 10. "Bid Security" above and per the notice inviting sealed bids.

12 MODIFICATION OR WITHDRAWAL OF BID.

12.1 Bids may not be modified, withdrawn, or canceled within one hundred twenty (120) calendar days after the bid deadline unless otherwise provided in any supplementary instructions to bidders. The bidder shall be prohibited from further bidding on the project and the bid bond shall be forfeited. The City, at its discretion, may award the bid to the next responsive and responsible bidder. In the event the next bidder refuses to enter into the contract, that bidder's bid bond shall then be forfeited.

13 OPENING OF BIDS.

13.1 Bids submitted in the manner required by these instructions and received on or before the bid deadline will be opened and available for viewing on PlanetBids.

14 EVALUATION AND REJECTION OF BIDS.

- **14.1** Bidders will be evaluated for responsiveness and responsibility based on bid proposal information provided in the bid documents under "designation of subcontractors" and bidder's references."
- **14.2** A responsive Bid is a Bid that conforms, in all material respects, to these Instructions to Bidders. Non-responsive Bids will be rejected.
- **14.3** A responsible bidder means a bidder who has demonstrated the attributes of trustworthiness, quality, fitness, capacity, and experience to satisfactorily perform fully the requirements of the Contract Documents and the moral and business integrity and reliability that will assure good faith performance in the sole discretion of the City. Any determination of a bidder's non-responsibility by the City shall be based on the fitness and capacity of the bidder to satisfactorily perform the obligations of the Contract, whether or not the bidder is qualified to perform those obligations, whether or not the bidder is trustworthy, and such other bases as may be relevant.
- **14.4** In addition to other provisions of the Contract Documents, upon the request of the City, a bidder whose Bid is under consideration for the award of the Contract shall promptly submit satisfactory evidence to City showing the bidder's financial resources, experience in the field, and organization and other factors evidencing bidder's ability to successfully execute and complete the Contract.
- **14.5** The City reserves the right to reject any or all bids and to waive discrepancies, irregularities, informalities, or any other error in the bid or bidding, when to do so seems to best serve the public interest. The right of the City to waive errors applies even if the Contract Documents state that a discrepancy, irregularity, informality, or other error make a bid nonresponsive, so long as the error does not constitute a material error. The City reserves the right, in its sole discretion, to: judge the bidder's representations as stated in the proposal forms and any post-Bid information to determine whether or not bidder is qualified to perform the Work; be the sole judge regarding the suitability of the

products, services, or supplies offered; to not purchase all items or the full quantity of each item listed in the Bid Item List; reject any or all Bids; waive any deficiencies, irregularities, or informalities in any Bids or in the bidding process; modify, cancel, or withdraw the Notice Inviting Sealed Bids; issue a new Notice Inviting Sealed Bids; suspend or abandon the Project; seek the assistance of outside technical experts in Bid evaluation; require a bidder to provide a guarantee (or guarantees) of the Contract by a third party; and not issue a Notice to Proceed after execution of the Contract. In submitting a Bid in response to the Notice Inviting Sealed Bids, the bidder is specifically acknowledging the City holds these rights. The Notice Inviting Sealed Bids does not commit the City to enter into a Contract, to reject, in its sole discretion, all Bids, nor does it obligate the City pay for any costs incurred by bidders in preparation and submission of a Bid or in anticipation of a Contract. By submitting a Bid, the bidder disclaims any right to be paid for such costs.

14.6 The City may reject any bid not accompanied by the required bid security or any other item required by the contract documents, or a bid which is in any other way materially incomplete, irregular or not responsive to the bid request in the sole determination of the City.

15 AWARD.

- **15.1** The City may retain all bids for a period of one hundred and twenty (120) calendar days for examination and comparison, and to delete any portion of the Work from the contract.
- **15.2** The City may waive nonmaterial irregularities in a bid and will accept the lowest responsive bid from a responsible bidder as determined by the City.
- **15.3** The City will determine the low bidder on the basis of the total bid price in words on the bidding sheet as described on the bidding sheet.
- **15.4** City Staff will identify the apparent lowest responsive and responsible bidder and notify such bidder within (30) working days (unless the number of days is modified in any Addendum issued to bidders) after the Bid Deadline. Within ten (10) calendar days after receiving the City's written notice that bidder was identified as the apparent lowest responsible bidder, bidder will submit to the City all of the following items as required by the City:
 - **15.4.1** Two originals of the contract signed by bidder.
 - **15.4.2** One original of the payment bond.
 - **15.4.3** One original of the performance bond.
 - **15.4.4** Certificates of insurance and additional insured endorsements.
 - **15.4.5** Copy of current city of Goleta business license certificate.

- **15.4.6** Names of all subcontractors, with their DIR registration number, license numbers, addresses, telephone number, facsimile number and trade on bidders' company stationery. Evidence, as required by the city, of the reliability and responsibility of the proposed subcontractors such as statements of experience, statements of financial condition, and references.
- **15.5** A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded. This Project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations.
- **15.6** If bidder submits the two original signed contracts and all other items within ten (10) working days after receiving the City's notification, and all such items comply with the requirements of the contract documents, the City will submit the bid to the City Council for award of Contract. Following City Council Award of Contract, the City will sign the contract and return a signed copy of the contract to bidder.

16 NOTICE OF INTENT TO AWARD CONTRACT.

Following the opening of bids and determination of the lowest responsible Bidder, the City will issue a notice of intent to award the Contract, identifying the Bidder to whom the City intends to award the Contract. The award of the Contracts shall be made by the City Council.

17 PUBLIC RECORDS.

City seeks to conduct its business openly. Upon identification of the lowest responsive and responsible bidder and upon notifying such bidder, Bids shall be regarded as public, with the exception any elements of each Bid that are identified by the Bidder as business or trade secrets and plainly marked as "trade secret," "confidential," or "proprietary." Each element of a Bid which a Bidder desires not to be considered public must be clearly marked as set forth above; any blanket statement (i.e. regarding entire pages, documents, or other, non-specific designations) shall not be sufficient and shall not bind the City in any way whatsoever. If City receives a request from a third party to make a Bid available for inspection or copying, the City will notify the Bidder of the request. If a Bidder instructs the City that the information is not to be released, City will withhold the information, provided, the Bidder expeditiously seeks a protective order from a court of competent jurisdiction to prevent such release. If disclosure is required by law (despite the Bidder's request for confidentiality), the City shall not in any way be liable or responsible for the disclosure of such records or part thereof.

18 BID PROTEST.

Any registered Bidder may file a protest provided that each and all of the following are complied with:

- **18.1** The bid protest is in writing;
- **18.2** Protests based upon alleged defects or improprieties in the Contract Documents are filed with the City prior to the Bid Deadline;
- 18.3 All other protests are filed and received by the City not more than five (5) calendar days following the date of City's Notice of Intent to Award the Contract; and
- **18.4** The written bid protest sets forth, in detail, all grounds for the bid protest, including without limitation all facts, supporting documentation, legal authorities and argument in support of the grounds for the bid protest. All factual contentions must be supported by competent, admissible and credible evidence.
- **18.5** Any matters not set forth in the written bid protest shall be deemed waived. Any bid protest not conforming to the foregoing shall be rejected by the City as invalid.

19 COMPLIANCE WITH CARB REGULATIONS

The City is a Public Works Awarding Body, as defined under Title 13 California Code of Regulations Section 2449(c)(46). Accordingly, Bidders must submit, with their Bids, a valid Certificate of Reported Compliance ("CRC") for the Bidder's and its listed subcontractors fleet (including any applicable leased equipment or vehicles). Bidder must complete and submit the Fleet Compliance Certification, on the form included in the bid package. Failure to provide a valid CRC for the Bidder's fleet, and for the fleets of all listed subcontractors, or failure to complete the Fleet Compliance Certification, may render the Bid non-responsive.

SECTION III

PROPOSAL

SECTION III PROPOSAL BID PROPOSAL FOR 2025 ARTERIAL PAVEMENT PROJECT

TO THE CITY OF GOLETA ("City"):

In accordance with City's Notice Inviting Sealed Bids, the undersigned Bidder herby proposes to furnish all materials, equipment, tools, labor, and incidentals required for the **2025 ARTERIAL PAVEMENT PROJECT** as set forth in the Plans, Specifications, and Contract Documents, and to perform all work in the manner and time prescribed therein.

Bidder declares that this Bid is based upon careful examination of the Work site, Plans, Specifications, Bidding Instructions, and all other Contract Documents. If this Bid is accepted for award, Bidder agrees to enter into a contract with City at the unit and/or lump sum prices set forth in the following Bid Schedule. Bidder understands that failure to enter into a contract in the manner and time prescribed will result in forfeiture to City of the Bid Security accompanying this Bid.

Bidder understands that a Bid is required for the entire Work, that the estimated quantities set forth in the Bid Schedule are solely for the purpose of comparing Bids, and that final compensation under the Contract will be based upon the actual quantities of Work satisfactorily completed. THE CITY RESERVES THE RIGHT TO INCREASE OR DECREASE THE AMOUNT OF ANY QUANTITY SHOWN AND TO DELETE ANY ITEM FROM THE CONTRACT per Section 9-1.06B INCREASES OF MORE THAN 25 PERCENT and Section 9-1.06C DECREASES OF MORE THAN 25 PERCENT. It is agreed that the unit and/or lump sum prices bid include all overhead, profit, appurtenant expenses, taxes, royalties, and fees. In the case of discrepancies in the amounts bid, unit prices shall govern over extended amount, and words shall govern over figures.

If awarded the Contract, the undersigned further agrees that in the event of the Bidder's default in executing the Contract and filing the necessary bonds and insurance certificates WITHIN TEN (10) WORKING DAYS after the City has mailed notice of the award of contract to the Bidder, the proceeds of the Bid Security accompanying this Bid shall become the property of the City and this Bid and the acceptance hereof may, at the City's option, be considered null and void.

SECTION III BID PROPOSAL FOR

2025 ARTERIAL PAVEMENT PROJECT

The Project insurance requirements are per the State Standard Specifications, as modified by the City of Goleta Construction Specifications contained herein.

Full	Legal Name of Bidder:
Туре	e of Entity: (corporation, partnership, etc.)
State	e of Incorporation / Organization:
Maili	ing Address:
City,	State, Zip:
Phys	sical Address:(must be included even if PO box is used for mailing)
City,	State, Zip:
Tele	phone Number: Area Code ()
Ema	il Address:
Calif	ornia Contractor License No.
regis Publ	tractor (and sub-contractors) wishing to bid on public works contracts shall be stered with the State Department of Industrial Relations and certified to bid on ic Works contracts. Register at: https://www.dir.ca.gov/public- ss/contractor-registration.html.
Cont	tractor Department of Industrial Relations Registration No.
Calif	ornia Contract License Classification(s)
	Contractor must be properly licensed as a contractor from contract award ntract acceptance (23 CRF 635.110).

The work for which this bid is submitted is for construction in conformance with the Special Provisions (including the payment of not less than the State general prevailing wage rates), the Project Plans described below, including any addenda thereto, the contract annexed hereto, and also in conformance with the California Department of Transportation Standard Plans, dated 2018, the California Department of Transportation

Standard Specifications, dated 2018, and the Labor Surcharge and Equipment Rental Rates in effect on the date the work is accomplished.

The work to be done and referred to herein is in the City of Goleta, Santa Barbara County, State of California, and is to be constructed in accordance with the Contract Documents and the Prevailing Wage Rates of the Department of Industrial Relations.

The work to be done is described in the Contract Documents entitled <u>2025</u> <u>ARTERIAL PAVEMENT PROJECT</u> City of Goleta, California.

The undersigned, as Bidder, declares that the only persons or parties interested in this Proposal as principals are those named herein; that this Proposal is made without collusion with any other person, firm, or corporation; that he or she has carefully examined the location of the proposed work and the Contract Documents; and proposes, and agrees if this Proposal is accepted, that he or she will Contract with the City of Goleta, in the form of a copy of the Agreement contained in the Bid Document, to provide all necessary machinery, tools, apparatus and other means of construction, and to do all the work and furnish all the materials specified in the Contract, in the manner and time therein prescribed, and according to the requirements of the Director, as therein set forth, and that he or she will take in full payment therefore prices indicated in the Schedule of Bid Items, including all work modified by addendum numbers ______. (IF NONE, STATE NONE).

In accordance with the provisions of California Labor Code Section 6707, whenever the State, a County, City and County, or City issues a call for bids for the construction of a pipeline, drainage, water, sewer, sewage disposal system, boring or jacking pits, or similar trenches or open excavations, which are five (5') feet or deeper, such call shall specify that each bid submitted in response thereto shall contain, as a bid item, adequate sheeting, shoring, and bracing or equivalent method, for the protection of life or limb, which shall conform to applicable safety orders.

As required under the provisions of California Public Contract Code Section 4104 et seq., any person making a bid or offer to perform the work, shall in his or her bid or offer, set forth: (a)(1) The name and location of the place of business of each subcontractor who will perform work or labor or render service to the prime Contractor in or about the construction of the work or improvement, or a subcontractor licensed by the State of California who, under subcontract to the primary Contractor specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the plans and specifications, in an amount in excess of one-half of one percent (0.5%) of the prime Contractor's total bid or, in the case of bids or offers for the construction of streets or highways, including bridges, in excess of one-half of one percent (0.5%) of the prime contractor's total bid or ten thousand dollars (\$10,000) whichever is greater; (2)(A) Subject to subparagraph (B), any information requested by the officer, department, board, or commission concerning any subcontractor who the prime contractor is required to list under this subdivision, other than the subcontractor's name and location of business, may be submitted by the prime contractor up to 24 hours after the deadline established by the officer, department, board, or commission for receipt of bids by prime contractors; (B) A state or local agency may implement subparagraph (A) at its option; (b) The portion of the work that will be done by each such subcontractor under this Act. The prime Contractor shall list only one (1) subcontractor for each such portion as defined by the prime Contractor in his or her Bid.

2025 ARTERIAL PAVEMENT PROJECT

BIDDING SHEET

The cost of all labor, material and equipment necessary for the completion of the work itemized, even though not shown or specified, shall be included in the unit or lump sum prices for the various items shown herein.

The City further reserves the right to reject any or all bids, to waive any informality or irregularity in any bid or the bidding procedure, and to delete any items of work in the award of contract. The City's decision on the bid amount is final.

Bidders must bid on all items in the Bid Schedule including the Supplemental and/or Alternative Bid Items in order for their bids to be complete. The award of contract will be based on the criteria outlined in Section 14 of the Bidding Instructions.

In the case of unit basis items, the amount set forth under the "Item Total" column (total base bid in words) shall be the product of the unit price bid and the estimated quantity for the item.

Bids on lump sum items are item totals. If a unit price of a lump sum item is entered and it differs from the item total, the item total prevails.

Entries are to be expressed in dollars or decimal fractions of a dollar. Symbols such as commas and dollar signs are ignored and have no significance in establishing unit price or item total.

Unit prices and item totals are interpreted by the number of digits and decimal placement. Do not round item totals or the total bid.

In case of discrepancy between the unit price and the total set forth for a unit basis item, the unit price prevails, except as provided in (a) or (b), as follows:

- (a) If the amount set forth as a unit price is unreadable or otherwise unclear, or is omitted, or is the same as the amount of the entry in the item total column, then the amount set forth in the item total column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price;
- (b) (Decimal Errors) If the product of the entered unit price and the estimated quantity is exactly off by a factor of ten, one hundred, etc., or one-tenth, or onehundredth, etc. from the entered total, the discrepancy will be resolved by using the entered unit price or item total, whichever most closely approximates percentage-wise the unit price or item total in the City's Final Estimate of cost.

If both the unit price and the item total are unreadable or otherwise unclear, or are omitted, the bid may be deemed irregular. Likewise, if the item total for a lump sum item is unreadable or otherwise unclear, or is omitted, the bid may be deemed irregular unless the project being bid has only a single item and a clear, readable total bid is provided.

2025 ARTERIAL PAVEMENT PROJECT

CONTRACTOR:

SCHEDULE OF BASE BID ITEMS

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
1	(P) MOBILIZATION, BONDS & INSURANCE	LS	1	\$	\$
2	TRAFFIC CONTROL, TRAFFIC (P) CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$	\$
3	PORTABLE CHANGEABLE MESSAGE SIGN	EA	15	\$	\$
4	DEVELOPMENT, PLACEMENT, (P) AND MAINTENANCE OF WATER POLLUTION CONTROL PLAN	LS	1	\$	\$
5	3/8" HMA-SP-50 TYPE A (PG 64- 10)	TN	1,497	\$	\$
6	1/2" HMA-SP-50 TYPE A (PG 64- 10)	TN	1,655	\$	\$
7	1/2" HMA-SP-65 TYPE A (PG 64- 10)	TN	284	\$	\$
8	1/2" HMA-SP-85 TYPE A (PG 64- 10)	TN	6869 -6,821	\$	\$
9	CRACK SEAL & SLURRY SEAL (TYPE II)	TN	370	\$	\$
10	SWEEPING ON THE 3RD, 7TH, 14TH, 21ST, & 30TH DAYS AFTER PLACING SLURRY SEAL	LS	1	\$	\$

PROP -6
PAGE 1A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
11	REMOVE & REPLACE TYPE A HMA DIKE	LF	30	\$	\$
12	COLD PLANE & REMOVE 0.17' EXISTING SECTION	SF	81,474	\$	\$
13	COLD PLANE & REMOVE 0.19' EXISTING SECTION	SF	146,988	\$	\$
14	COLD PLANE & REMOVE 0.25' EXISTING SECTION	SF	12,566	\$	\$
15	COLD PLANE & REMOVE 0.33' EXISTING SECTION	SF	129,360 134,787	\$	\$
16	COLD PLANE & REMOVE 0.50' EXISTING SECTION	SF	6,102 1,190	\$	\$
17	COLD PLANE & REMOVE 0.67' EXISTING SECTION	SF	27,785	\$	\$
18	UNSUITABLE MATERIAL	CY	500	\$	\$
19	PAVEMENT TRANSITION B1 (REVOKABLE)	SF	810	\$	\$
20	PAVEMENT TRANSITION B2 (REVOKABLE)	SF	810	\$	\$
21	PRUNE & REMOVE TREE ROOTS UNDER HMA REPAIRS	SF	2,284	\$	\$
22	REMOVE TREE	EA	4	\$	\$

PROP -6
PAGE 2A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
23	(P) TRIM VEGETATION/TREE CANOPY IN WORK ZONE	LS	1	\$	\$
24	FOG SEAL	LS	1	\$	\$
25	INSTALL SHOULDER BACKING	LF	459	\$	\$
26	RECONSTRUCT PCC CURB RAMP	EA	10	\$	\$
27	RECONSTRUCT PCC CURB RAMP WITH SPANDREL	EA	21	\$	\$
28	REMOVE & REPLACE PCC CUP	RB LF	14	\$	\$
29	REMOVE & REPLACE PCC CUP & GUTTER	RB LF	265	\$	\$
30	REMOVE, SALVAGE AND REPLACE PAVERS	SF	145	\$	\$
31	REMOVE & DISPOSE PCC RAM	IP EA	1	\$	\$
32	LOWER WATER VALVE COVER	EA	40	\$	\$
33	LOWER GAS VALVE COVER	EA	3	\$	\$
34	LOWER MANHOLE COVER	EA	22	\$	\$
35	LOWER TELECOMMUNICATIONS COVE	R EA	2	\$	\$
36	LOWER SEWER CLEANOUT COVER	EA	1	\$	\$

PROP -6
PAGE 3A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
37	ADJUST WATER VALVE COVER TO FINISH GRADE	EA	60	\$	\$
38	ADJUST WATER METER BOX COVER TO FINISH GRADE	EA	1	\$	\$
39	ADJUST GAS VALVE COVER TO FINISH GRADE	EA	3	\$	\$
40	ADJUST MANHOLE COVER TO FINISH GRADE	EA	45	\$	\$
41	ADJUST TELECOMMUNICATIONS COVER TO FINISH GRADE	EA	2	\$	\$
42	ADJUST SEWER CLEANOUT COVER TO FINISH GRADE	EA	1	\$	\$
43	ADJUST CABLE BOX TO FINISH GRADE	EA	3	\$	\$
44	ADJUST TRAFFIC SIGNAL BOX TO FINISH GRADE	EA	2	\$	\$
45	MONUMENT PERPETUTATION	EA	104	\$	\$
46	REMOVE, SALVAGE & REPLACE ROADSIDE SIGN	EA	3	\$	\$
47	PERMANENT PAVEMENT (P) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	\$	\$
48	(P) REMOVAL OF EXISTING PAVEMENT STRIPING	LS	1	\$	\$
49	TEMPORARY PAINT FOR (P) PAVEMENT STRIPES, MARKINGS AND MARKERS	LS	1	\$	\$

PROP -6
PAGE 4A OF 19A
ADDENDUM 1

* NOTES:

- (F) DENOTES FINAL PAY ITEM
- (P) DENOTES PARTIAL PAYMENT

ALTERNATIVE BID 1

STORKE ROAD

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
50	(P) MOBILIZATION, BONDS & INSURANCE	LS	1	\$	\$
51	TRAFFIC CONTROL, TRAFFIC (P) CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$	\$
52	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2	\$	\$
53	DEVELOPMENT, PLACEMENT, (P) AND MAINTENANCE OF WATER POLLUTION CONTROL PLAN	LS	1	\$	\$
54	1/2" HMA-SP-85 TYPE A (PG 64- 10)	TN	1,282	\$	\$
55	CRACK SEAL & MICRO- SURFACING (TYPE II)	TN	88	\$	\$
56	SWEEPING ON THE 3RD, 7TH, 14TH, 21ST, & 30TH DAYS AFTER PLACING SLURRY SEAL	LS	1	\$	\$
57	COLD PLANE & REMOVE 0.50' EXISTING SECTION	SF	20,031	\$	\$
58	UNSUITABLE MATERIAL	CY	40	\$	\$
59	(P) TRIM VEGETATION/TREE CANOPY IN WORK ZONE	LS	1	\$	\$
60	RECONSTRUCT PCC CURB RAMP	EA	2	\$	\$

PROP -6
PAGE 5A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
61	RECONSTRUCT PCC CURB RAMP WITH SPANDREL	EA	6	\$	\$
62	RECONSTRUCT PCC PEDESTRIAN ISLAND	EA	1	\$	\$
63	LOWER WATER VALVE COVER	EA	5	\$	\$
64	LOWER MANHOLE COVER	EA	2	\$	\$
65	LOWER TELECOMMUNICATIONS COVER	EA	1	\$	\$
66	ADJUST WATER VALVE COVER TO FINISH GRADE	EA	5	\$	\$
67	ADJUST MANHOLE COVER TO FINISH GRADE	EA	2	\$	\$
68	ADJUST TELECOMMUNICATIONS COVER TO FINISH GRADE	EA	1	\$	\$
69	ADJUST ELECTRIC BOX TO FINISH GRADE	EA	1	\$	\$
70	ADJUST TELECOMMUNICATIONS BOX TO FINISH GRADE	EA	5	\$	\$
71	ADJUST TRAFFIC SIGNAL BOX TO FINISH GRADE	EA	7	\$	\$
72	MONUMENT PERPETUTATION	EA	8	\$	\$
73	REMOVE, SALVAGE & REPLACE STREET SIGN	EA	5	\$	\$
74	PERMANENT PAVEMENT (P) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	\$	\$

PROP -6
PAGE 6A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
75	(P) REMOVAL OF EXISTING PAVEMENT STRIPING	LS	1	\$	\$
76	TEMPORARY PAINT FOR (P) PAVEMENT STRIPES, MARKINGS AND MARKERS	LS	1	\$	\$
77	DEVELOP WATER SUPPLY	LS	1	\$	\$
78	CLEARING AND GRUBBING	LS	1	\$	\$
79	ROADWAY EXCAVATION	CY	271	\$	\$
80	4" PVC PIPE CONDUIT (SCHEDULE 40)(SLEEVE)	EA	2	\$	\$
81	CLASS IV AGGREGATE SUB BASE	CY	16	\$	\$
82	CLASS II AGGREGATE BASE	CY	793	\$	\$
83	BUS PAD CONCRETE	CY	27	\$	\$
84	CURB / MEDIAN (MINOR CONCRETE)	CY	17	\$	\$
85	CURB & GUTTER (MINOR CONCRETE)	CY	21	\$	\$
86	SIDEWALK (MINOR CONCRETE)	CY	40	\$	\$
87	MEDIAN STAMPED CONCRETE (TINTED CONCRETE)(MINOR CONCRETE)	CY	16	\$	\$

PROP -6
PAGE 7A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
88	CONSTRUCTION SURVEY (EXPECT TO BE COVERED IN MAINLINE JOB)	LS	1	\$	\$
89	RELOCATE STREET LIGHT	LS	1	\$	\$
90	BUS SHELTER & ST. FURNITURE 1 @ STORKE STA 49+00	LS	1	\$	\$
91	BUS SHELTER & ST. FURNITURE 2 @ HOLLISTER STA 32+00	LS	1	\$	\$
92	POTHOLING REPORT	LS	1	\$	\$
93	UTILITY CONFLICT ACCOMODATIONS	LS	1	\$	\$
94	UNKNOWN UTILITY CROSSING	G EA	10	\$	\$
95	TRASH CANS	EA	4	\$	\$
96	BENCH	EA	7	\$	\$

SUBTOTAL ITEMS 50-94 50-96 (ALTERNATIVE BID #1)

\$

- * NOTES:
- (F) DENOTES FINAL PAY ITEM
- (P) DENOTES PARTIAL PAYMENT

PROP -6
PAGE 8A OF 19A
ADDENDUM 1

ALTERNATIVE BID #2

CALLE REAL

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ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
97 95	(P) MOBILIZATION, BONDS & INSURANCE	LS	1	\$	\$
98 96	TRAFFIC CONTROL, TRAFFIC (P) CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$	\$
99 97	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2	\$	\$
100 98	DEVELOPMENT, PLACEMENT, (P) AND MAINTENANCE OF WATEF POLLUTION CONTROL PLAN	R LS	1	\$	\$
101 99	1/2" HMA-SP-65 TYPE A (PG 64- 10)	TN	874	\$	\$
102 100	1/2" HMA-SP-85 TYPE A (PG 64- 10)	TN	107	\$	\$
103 101	COLD PLANE & REMOVE 0.30' EXISTING SECTION	SF	38,825	\$	\$
104 102	COLD PLANE & REMOVE 0.33' EXISTING SECTION	SF	3,713	\$	\$
105 103	UNSUITABLE MATERIAL	CY	10	\$	\$
106 104	PRUNE & REMOVE TREE ROOTS UNDER HMA REPAIRS	SF	126	\$	\$
107 105	(P) TRIM VEGETATION/TREE CANOPY IN WORK ZONE	LS	1	\$	\$
108 106	INSTALL SHOULDER BACKING	LF	1,150	\$	\$
109 107	RECONSTRUCT PCC CURB RAMP	EA	2	\$	\$

PROP -6
PAGE 9A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
110 108	RECONSTRUCT PCC CURB RAMP WITH SPANDREL	EA	6	\$	\$
111 109	LOWER WATER VALVE COVER	EA	14	\$	\$
112 110	LOWER MANHOLE COVER	EA	6	\$	\$
113 111	ADJUST WATER VALVE COVER TO FINISH GRADE	EA	14	\$	\$
114 112	ADJUST MANHOLE COVER TO FINISH GRADE	EA	6	\$	\$
115 113	MONUMENT PERPETUTATION	EA	29	\$	\$
116 114	PERMANENT PAVEMENT (P) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	\$	\$
117 115	(P) REMOVAL OF EXISTING PAVEMENT STRIPING	LS	1	\$	\$
118 116	TEMPORARY PAINT FOR (P) PAVEMENT STRIPES, MARKINGS AND MARKERS	LS	1	\$	\$
	SUBTOTAL ITEMS 95-116-97-11	8 (ALTER	NATIVE BID	#2)	\$

* NOTES:

DENOTES FINAL PAY ITEM

(F) (P) DENOTES PARTIAL PAYMENT

PROP -6
PAGE 10A OF 19A
ADDENDUM 1

ALTERNATIVE BID #3

BERKELEY ROAD

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
119 117	(P) MOBILIZATION, BONDS & INSURANCE	LS	1	\$	\$
120 118	TRAFFIC CONTROL, TRAFFIC (P) CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$	\$
121 119	PORTABLE CHANGEABLE MESSAGE SIGN	EA	1	\$	\$
122 120	DEVELOPMENT, PLACEMENT, (P) AND MAINTENANCE OF WATER POLLUTION CONTROL PLAN	R LS	1	\$	\$
123 121	1/2" HMA-SP-50 TYPE A (PG 64- 10)	TN	1,197	\$	\$
124 122	1/2" HMA-SP-85 TYPE A (PG 64- 10)	TN	407	\$	\$
125 123	KEYCUT - TYPE A1	LF	2,718	\$	\$
126 124	KEYCUT - TYPE B1	LF	289	\$	\$
127 125	COLD PLANE & REMOVE 0.17' EXISTING SECTION	SF	29,478	\$	\$
128 126	COLD PLANE & REMOVE 0.25' EXISTING SECTION	SF	4,537	\$	\$
129 127	COLD PLANE & REMOVE 0.33' EXISTING SECTION	SF	12,876	\$	\$
130 128	UNSUITABLE MATERIAL	CY	45	\$	\$
131 129	PAVEMENT TRANSITION C	SF	2,027	\$	\$
132 130	PAVEMENT TRANSITION D	SF	1,019	\$	\$

PROP -6
PAGE 11A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
133 131	PRUNE & REMOVE TREE ROOTS UNDER HMA REPAIRS	SF	1,067	\$	\$
134 132	REMOVE TREE	EA	13	\$	\$
135 133	(P) TRIM VEGETATION/TREE CANOPY IN WORK ZONE	LS	1	\$	\$
136 134	RECONSTRUCT PCC CURB RAMP	EA	6	\$	\$
137 135	RECONSTRUCT PCC CURB RAMP WITH SPANDREL	EA	6	\$	\$
138 136	REMOVE & REPLACE PCC CURB & GUTTER	LF	384	\$	\$
139 137	REMOVE & REPLACE SIDEWALK UNDERDRAIN WITH PIPE	LF	5	\$	\$
140 138	LOWER WATER VALVE COVER	EA	11	\$	\$
141 139	LOWER MANHOLE COVER	EA	3	\$	\$
142 140	ADJUST WATER VALVE COVER TO FINISH GRADE	EA	14	\$	\$
143 141	ADJUST MANHOLE COVER TO FINISH GRADE	EA	8	\$	\$
144 142	MONUMENT PERPETUTATION	EA	28	\$	\$
145 143	REMOVE, SALVAGE & REPLACE ROADSIDE SIGN	EA	1	\$	\$
146 144	PERMANENT PAVEMENT (P) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	\$	\$

PROP -6
PAGE 12A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
147 145	(P) REMOVAL OF EXISTING PAVEMENT STRIPING	LS	1	\$	\$
148 146	TEMPORARY PAINT FOR (P) PAVEMENT STRIPES, MARKINGS AND MARKE	LS	1	\$	\$
	SUBTOTAL ITEMS 117-1	46 119-148 (AL	FERNATIVE	BID #3)	\$

- * NOTES:
- (F) DENOTES FINAL PAY ITEM
- (P) DENOTES PARTIAL PAYMENT

ALTERNATIVE BID #4

LOS CARNEROS ROAD

ITEM NO.	*	ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
149 147	(P)	MOBILIZATION, BONDS & INSURANCE	LS	1	\$	\$
150 148	(P)	TRAFFIC CONTROL, TRAFFIC CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$	\$
151 149		PORTABLE CHANGEABLE MESSAGE SIGN	EA	2	\$	\$
152 150	(P)	DEVELOPMENT, PLACEMENT, AND MAINTENANCE OF WATER POLLUTION CONTROL PLAN	LS	1	\$	\$
153 151		1/2" HMA-SP-85 TYPE A (PG 64- 10)	TN	1,039	\$	\$
154 152		COLD PLANE & REMOVE 0.63' EXISTING SECTION	SF	22,154	\$	\$
155 153		UNSUITABLE MATERIAL	CY	45	\$	\$
156 154		RECONSTRUCT PCC CURB RAMP	EA	1	\$	\$

PROP -6
PAGE 13A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
157 155	LOWER MANHOLE COVER	EA	3	\$	\$
158 156	LOWER TELECOMMUNICATIONS COVER	EA	1	\$	\$
159 157	ADJUST MANHOLE COVER TO FINISH GRADE	EA	3	\$	\$
160 158	ADJUST TELECOMMUNICATIONS COVER TO FINISH GRADE	EA	1	\$	\$
161 159	ADJUST ELECTRIC BOX COVER TO FINISH GRADE	EA	2	\$	\$
162 160	MONUMENT PERPETUTATION	EA	8	\$	\$
163 161	PERMANENT PAVEMENT (P) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	\$	\$
164 162	(P) REMOVAL OF EXISTING PAVEMENT STRIPING	LS	1	\$	\$
165 163	TEMPORARY PAINT FOR (P) PAVEMENT STRIPES, MARKINGS AND MARKERS	LS	1	\$	\$
	SUBTOTAL ITEMS 147-163 149-16	65 (ALTI	ERNATIVE BI	D #4)	\$

- * NOTES:
- DENOTES FINAL PAY ITEM
- (F) (P) DENOTES PARTIAL PAYMENT

PROP -6
PAGE 14A OF 19A
ADDENDUM 1

ALTERNATIVE BID #5

CALLE REAL

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
166 164	(P) MOBILIZATION, BONDS & INSURANCE	LS	1	\$	\$
167 165	TRAFFIC CONTROL, TRAFFIC (P) CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$	\$
168 166	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2	\$	\$
169 167	DEVELOPMENT, PLACEMENT, (P) AND MAINTENANCE OF WATER POLLUTION CONTROL PLAN	LS	1	\$	\$
170 168	1/2" HMA-SP-65 TYPE A (PG 64- 10)	TN	1,528	\$	\$
171 169	PULVERIZE 1.25' OF EXISTING SECTION	SF	48,876	\$	\$
172 170	TRIM, REMOVE AND DISPOSE 0.42' PULVERIZED MATERIAL, REGRADE	SF	48,876	\$	\$
173 171	CEMENT TREAT 0.83' SUBGRADE, TRIM TO TOP OF SUBGRADE	SF	48,876	\$	\$
174 172	CEMENT	ΤN	107	\$	\$
175 173	UNSUITABLE MATERIAL	CY	50	\$	\$
176 174	(P) TRIM VEGETATION/TREE CANOPY IN WORK ZONE	LS	1	\$	\$
177 175	RECONSTRUCT PCC CURB RAMP	EA	6	\$	\$
178 176	RECONSTRUCT PCC CURB RAMP WITH SPANDREL	EA	12	\$	\$

PROP -6
PAGE 15A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
179 177	RECONSTRUCT PCC DRIVEWA	Y EA	2	\$	\$
180 178	LOWER WATER VALVE COVER	EA	14	\$	\$
181 179	LOWER MANHOLE COVER	EA	9	\$	\$
182 180	ADJUST WATER VALVE COVER TO FINISH GRADE	R EA	14	\$	\$
183 181	ADJUST MANHOLE COVER TO FINISH GRADE	EA	9	\$	\$
184 182	MONUMENT PERPETUTATION	EA	47	\$	\$
185 183	REMOVE, SALVAGE & REPLACI MAILBOX	e _{ea}	1	\$	\$
186 184	REMOVE, SALVAGE & REPLACI STREET SIGN	E _{EA}	4	\$	\$
187 185	PERMANENT PAVEMENT (P) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	\$	\$
188 186	(P) REMOVAL OF EXISTING PAVEMENT STRIPING	LS	1	\$	\$
189 187	TEMPORARY PAINT FOR (P) PAVEMENT STRIPES, MARKINGS AND MARKERS	LS	1	\$	\$
	SUBTOTAL ITEMS 164-187 166-	189 (ALTE		ID #5)	\$

* NOTES:

(F) DENOTES FINAL PAY ITEM

(P) DENOTES PARTIAL PAYMENT

PROP -6
PAGE 16A OF 19A
ADDENDUM 1

ALTERNATIVE BID #6

STORKE ROAD

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT
190 188	(P) MOBILIZATION, BONDS & INSURANCE	LS	1	\$	\$
191 189	TRAFFIC CONTROL, TRAFFIC (P) CONTROL PLAN, AND TRAFFIC CONTROL MAINTENANCE	LS	1	\$	\$
192 190	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2	\$	\$
193 191	DEVELOPMENT, PLACEMENT, (P) AND MAINTENANCE OF WATER POLLUTION CONTROL PLAN	LS	1	\$	\$
194 192	1/2" HMA-SP-85 TYPE A (PG 64- 10)	TN	835	\$	\$
195 193	CRACK SEAL & MICRO- SURFACING (TYPE II)	TN	129	\$	\$
196 194	SWEEPING ON THE 3RD, 7TH, 14TH, 21ST, & 30TH DAYS AFTER PLACING SLURRY SEAL	LS	1	\$	\$
197 195	COLD PLANE & REMOVE 0.50' EXISTING SECTION	SF	19,343	\$	\$
198 196	UNSUITABLE MATERIAL	CY	40	\$	\$
199 197	(P) TRIM VEGETATION/TREE CANOPY IN WORK ZONE	LS	1	\$	\$
200 198	LOWER WATER VALVE COVER	EA	5	\$	\$
201 199	LOWER MANHOLE COVER	EA	2	\$	\$
202 200	LOWER TELECOMMUNICATIONS COVER	EA	1	\$	\$
203 201	ADJUST WATER VALVE COVER TO FINISH GRADE	EA	5	\$	\$

PROP -6
PAGE 17A OF 19A
ADDENDUM 1

ITEM NO.	* ITEM	UNIT	EST. QUANT.	UNIT PRICE	AMOUNT		
204 202	ADJUST MANHOLE COVER TO FINISH GRADE	EA	2	\$	\$		
205 203	ADJUST TELECOMMUNICATIONS COVE TO FINISH GRADE	R EA	1	\$	\$		
206 20 4	MONUMENT PERPETUTATION	EA	3				
207 205	REMOVE, SALVAGE & REPLACE STREET SIGN	EA	1	\$	\$		
208 206	PERMANENT PAVEMENT (P) STRIPING, MARKERS AND PAVEMENT MARKINGS	LS	1	\$	\$		
209 207	(P) REMOVAL OF EXISTING PAVEMENT STRIPING	LS	1	\$	\$		
210 208	TEMPORARY PAINT FOR (P) PAVEMENT STRIPES, MARKINGS AND MARKERS	LS	1	\$	\$		
	SUBTOTAL ITEMS 188-208 190-210 (ALTERNATIVE BID #6) \$						
BASE B	D: ENTER SUBTOTAL OF BID ITEM	S #1 TO #	49		\$		
SUBTO	TAL ITEMS 50-94 50-96 (ALTERNATI\	/E BID #1)		1	\$		
SUBTO	۲AL ITEMS	TIVE BID #	<i>‡</i> 2)	1	\$		
SUBTOTAL ITEMS 117-146 119-148 (ALTERNATIVE BID #3) \$							
SUBTOTAL ITEMS 147-163 149-165 (ALTERNATIVE BID #4)							
SUBTOTAL ITEMS 164-187 166-189 (ALTERNATIVE BID #5)							
SUBTO	SUBTOTAL ITEMS 188-208 190-210 (ALTERNATIVE BID #6)						
TOTAL OF BASE BID PLUS ALTERNATE BID							

PROP -6	113
PAGE 18A OF 19A	113
ADDENDUM 1	

NOTES:

1) The City of Goleta shall determine the lowest responsible, responsive bidder based on the lowest total of the Base Bid plus the Alternate Bid 1, 2, 3, 4, 5, & 6.

2) The City of Goleta, if it chooses to award, shall award the contract to the lowest responsible, responsive bidder based on the lowest total of the Base Bid plus the Alternate Bid 1, 2, 3, 4, 5, & 6. Depending on budget constraints, the actual project may, at the City's discretion, include items from only the Base Bid plus Alternate Bid 1, 2, 3, 4, 5, & 6.

3) The Contractor must submit pricing for all Base Bid items and Alternate Bids 1, 2, 3, 4, 5, & 6. No response or a response of zero on any bid items will be deemed a non-responsive bid.

PROP -6
PAGE 19A OF 19A
ADDENDUM 1

LIST OF SUBCONTRACTORS

The Bidder shall list the name, address, license number, and description of work, bid item number, percentage of bid item subcontracted by cost and Department of Industrial Relations Registration number for each subcontractor to whom the Bidder proposes to subcontract portions of the work, as required by the provisions in Section 2-1.10 SUBCONTRACTOR LIST of the State Standard Specifications. Attention is also directed to Section 5-1.13 SUBCONTRACTING of the Special Provisions. Listed subcontractors must be registered with the Department of Industrial Relations. Pursuant to SB 854, this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations (DIR). Bidder shall list the DIR registration number for each subcontractor.

Bidder proposes to subcontract certain portions of the Work which are in excess of onehalf of one percent (0.5%) of the total amount base bid or \$10,000, whichever is greater, and to procure materials and equipment from suppliers and vendors.

These Subcontractors are identified as follows:

Bid Item	Subcontractor	Subcontractor	Percent of	Subcontractor's
Number(s)	License	DIR	Total Bid	Name & Address
	Number	Registration		
		Number		

Bid Item Number(s)	Subcontractor License Number	Subcontractor DIR Registration Number	Percent of Total Bid	Subcontractor's Name & Address

BIDDER'S REFERENCES

The following are the names, addresses, and phone numbers for three public agencies for which Bidder has performed projects of the same magnitude and character of the work bid within the past five (5) years:

1.	Name of Agency Agency Address Telephone Contact Person Contract Amount	
2.	Name of Agency Agency Address Telephone Contact Person Contract Amount	
3.	Name of Agency Agency Address Telephone Contact Person Contract Amount	

The following are the names, addresses, and phone numbers for all brokers and sureties from whom Bidder intends to procure insurance bonds:

EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE

Bidder certifies that in all previous contracts or subcontracts, all reports which may have been due under the requirements of any local, State, or Federal equal employment opportunity orders have been satisfactorily filed, and that no such reports are currently outstanding.

ELIGIBILITY TO CONTRACT

The successful Bidder is prohibited from performing work on this Project with a Subcontractor who is ineligible to perform work on the Project pursuant to Section 1777.1 or 1777.7 of the Labor Code.

BIDDER'S INFORMATION

Bidder certifies that the following information is true and correct:

Bidder's Name		
Business Address		
Telephone		
State Contractor's License No	and Class	
Original Date Issued	Expiration Date	
DIR Registration No:		

The following are the names, titles, addresses, and phone numbers of all individuals, firm members, partners, joint venturers, and/or corporate officers having a principal interest in this Bid:

The date of any voluntary or involuntary bankruptcy judgments against any principal having an interest in this Bid are as follows:

All current and prior DBA's, alias, and/or fictitious business names for any principal having an interest in this Bid are as follows:

I declare under penalty of perjury under the laws of the State of California that the above representations are true and correct. Executed this _____ day of _____, 20__, at _____California.

Signature and Title of Bidder or Authorized Representative

BIDDER'S STATEMENT OF PAST CONTRACT DISQUALIFICATIONS AND DEFAULTS

Identify all instances of being disqualified, removed, determined to be a non-responsible bidder, debarred, assessed liquidated damages, terminated for default or otherwise prevented from bidding on, or completing, a federal, state, or local government project.

Have you ever been disqualified from any government contract?
 Yes □ No □

2. If yes, explain the circumstances including date of public entity action, name of project, contract award amount and current contact person at public entity:

Signature and Title of Bidder or Authorized Representative

BID BOND FOR: 2025 ARTERIAL PAVEMENT PROJECT

KNOW ALL PERSONS BY THESE PRESENTS that [Bidder]

______ as PRINCIPAL, and ______, a corporation organized under the laws of the State of ______ and licensed by the State of California to execute bonds and undertakings as sole surety, as SURETY, are held and firmly bound unto the City of Goleta, as City, in the penal sum of ten percent (10%) of the total Base Bid Price on the base Contract Work, **excluding** any Alternate Bid Items submitted by PRINCIPAL to CITY for the above stated project, for the payment of which sum, PRINCIPAL and SURETY agree to be bound, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH that, whereas PRINCIPAL has submitted a proposal to CITY for the above stated project.

NOW, THEREFORE, the penal sum guaranteed by this bond shall be forfeited to the City in the event of any of the following: (1) The aforesaid Principal withdraws said bid after the Bid Deadline contrary to applicable law; or (2) Principal fails, within ten (10) working days after receipt of written notice that the contract has been awarded to Principal and tender of the Contract, to, deliver to City the executed Agreement, in the prescribed form, in accordance with the bid as accepted, and file with the City all documents required in Section 3-1.18 CONTRACT EXECUTION of the City of Goleta Construction Specifications.

In case suit is brought upon this bond, SURETY further agrees to pay all reasonable attorneys' fees and costs incurred by CITY in an amount fixed by the court. SURETY hereby waives the provisions of California Civil Code Sections 2845 and 2849.

IN WITNESS WHEREOF the parties hereto have set their names, titles, hands, and seals this _____day of ______, 20___.

PRINCIPAL: _____

(Address)

BY:

(Signature and Title of Authorized Officer)

BY:

(Signature and Title of Authorized Officer)

SURETY:	
(Address)	
BY:	(Signature and Title of Authorized Officer)
BY:	(Signature and Title of Authorized Officer)

Note: All signatures must be acknowledged before a notary public. Attach appropriate acknowledgment. Also, evidence of the authority of any person signing as attorney-in-fact must be attached.

STATEMENT ACKNOWLEDGING PENAL AND CIVIL PENALTIES CONCERNING THE CONTRACTOR'S LICENSING LAWS

[Business & Professions Code § 7028.15; Public Contract Code § 20103.5]

The undersigned, a duly authorized representative of the Bidder, certify that I am aware of the provisions of California law and that I, or the company/individual on whose behalf this Bid is being submitted, hold a currently valid California contractor's license as set forth in the Business and Professions Code § 7028.15 and Public Contract Code § 20103.5 (and any updates).

A contractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

Bidder:		
License No.:	_Class	Expiration date:
DIR Registration No.:		
Date	Signature _	

DECLARATION OF ELIGIBILITY TO CONTRACT [Labor Code §§ 1777.1 and 1777.7; Public Contract Code § 6109]

The undersigned, a duly authorized representative of the Bidder, certifies and declares that:

- 1. The Bidder is aware of Sections 1771.1 and 1777.7 of the California Labor Code, which prohibit a contractor or subcontractor who has been found by the Labor Commissioner or the Director of Industrial Relations to be in violation of certain provisions of the Labor Code, from bidding on, being awarded, or performing work as a subcontractor on a public works project for specified periods of time.
- 2. The Bidder is not ineligible to bid on, be awarded or perform work as a subcontractor on a public works project by virtue of the foregoing provisions of Sections 1771.1 or 1777.7 of the California Labor Code or any other provision of law.
- 3. The Bidder is aware of California Public Contract Code Section 6109 (and any updates.)
- 4. The Bidder has investigated the eligibility of each and every subcontractor the contractor intends to use on this public works project, and determined that none of them is ineligible to perform work as a subcontractor on a public works project by virtue of the foregoing provisions of the Public Contract Code, Sections 1771.1 and 1777.7 of the Labor Code, or any other provision of law.
- 5. A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed this ______ day of ______, 20___, at ____, California.

Signature:_____

Name:

Title:

Name of Company: _____

Note: Signature must be acknowledged before a notary public. Attach appropriate acknowledgment.

NON-COLLUSION DECLARATION FOR 2025 ARTERIAL PAVEMENT PROJECT

I am the ______ [title] of _______ [name of bidder], the party making the foregoing bid, declares that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly, colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on

_____[date], at _____[city], ____[state]

(Signature and Title of Authorized Representative)

(THE BIDDER'S EXECUTION ON THE SIGNATURE PORTION OF THIS PROPOSAL SHALL ALSO CONSTITUTE AN ENDORSEMENT AND EXECUTION OF THOSE CERTIFICATIONS WHICH ARE A PART OF THIS PROPOSAL)

EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

The bidder_______, proposed subcontractor ________, hereby certifies that he has______, has not_____, participated in a previous contract or subcontract subject to the equal opportunity clauses, as required by Executive Orders 10925, 11114, or 11246, and that, where required, he has filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filling requirements.

Note: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7(b) (1)), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts, which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally only contracts or subcontracts of \$10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7(b) (1) prevents the award of contracts and subcontracts unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

PUBLIC CONTRACT CODE

Public Contract Code Section 10285.1 Statement

In conformance with Public Contract Code Section 10285.1 (Chapter 376, Stats. 1985), the bidder hereby declares under penalty of perjury under the laws of the State of California that the bidder has ______, has not ______been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or Federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code Section 1101, with any public entity, as defined in Public Contract Code Section 1101, with any public entity, as defined in Public Contract Code Section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

Note: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided. The above Statement is part of the Bid. Signing this Bid on the signature portion thereof shall also constitute signature of this Statement. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

In conformance with Public Contract Code Section 10162, the Bidder shall complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes No

If the answer is yes, explain the circumstances in the following space.

PUBLIC CONTRACT CODE 10232 STATEMENT

In conformance with Public Contract Code Section 10232, the Contractor, hereby states under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two year period because of the Contractor's failure to comply with an order of a federal court which orders the Contractor to comply with an order of the National Labor Relations Board.

Note: The above Statement and Questionnaire are part of the Bid. Signing this Bid on the signature portion thereof shall also constitute signature of this Statement and Questionnaire. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

DEBARMENT AND SUSPENSION CERTIFICATION

TITLE 49, CODE OF FEDERAL REGULATIONS, PART 29

The bidder, under penalty of perjury, certifies that, except as noted below, he/she or any other person associated therewith in the capacity of owner, partner, director, officer, manager:

- is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal agency;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal agency within the past 3 years;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgement rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

Notes: Providing false information may result in criminal prosecution or administrative sanctions. The above certification is part of the Bid. Signing this Bid on the signature portion thereof shall also constitute signature of this Certification.

IRAN CONTRACTING ACT DISCLOSURE FORM

GENERAL

GENERAL REQUIREMENTS

- A. Pursuant to the Iran Contract Act of 2010 (California Public Contract Code, Sections 2202-2208), Bidders are ineligible to bid on projects with a public entity for goods or services of one million dollars (\$1,000,000) or more if the Bidder engages in investment activities in Iran.
- B. Bidders must provide the below disclosure form as a mandatory submittal for all projects in excess of \$1,000,000. The Iran Contracting Act Disclosure Form shall be submitted by the 3 apparent low bidders within 7 working days after opening of the bids.

(California Public Contract, Sections 2202-2208)

When responding to a bid or proposal or executing a contract or renewal for a City contract for goods or services of \$1,000,000 or more, a vendor must either: a) certify it is **not** on the current list of persons engaged in investment activities in Iran created by the California Department of General Services ("DGS") pursuant to Public Contract Code section 2203(b) and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 working days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code Section 2203(c) or (d).

To comply with this requirement, please provide your vendor or financial institution name and complete <u>one</u> of the options below. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of \$250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts. (Public Contract Code section 2205.)

OPTION #1 – CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is **not** on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million (\$20,000,000) or more in credit to another person/vendor, for 45 working days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

Vendor Name/Financial Institution (Printed)

By (*Authorized Signature*)

Printed Name and Title of Person SigningDate ExecutedExecuted in

OPTION #2 – EXEMPTION

Pursuant to Public Contract Code sections 2203(c) and (d), a public entity may permit a vendor/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or enters into or renews, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

Vendor Name/Financial Ins	titution (Printed)
By (Authorized Signature)	
Printed Name and Title of F	Person Signing
Date Executed	Executed in

DRUG-FREE WORKPLACE POLICY AND AFFIDAVIT

BID MAY BE DECLARED NONRESPONSIVE IF THIS FORM (COMPLETED) IS NOT

ATTACHED.

Pursuant to City Council Resolution CC90-498 dated 6/26/90 the following

is required.

The undersigned Proposer certifies that it and all subcontractors performing under this contract will provide a drug-free workplace by:

- 1. Publishing a "Drug-Free Workplace" statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the Contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition.
- 2. Establishing a Drug-Free Awareness Program to inform employees about:
 - a. The dangers of drug abuse in the workplace.
 - b. The Contractor's policy of maintaining a drug-free workplace.
 - c. Any available drug counseling, rehabilitation, and employee assistance program.
 - d. The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace.
- 3. Notify employees that as a condition of employment under this Contract, employees will be expected to:
 - a. Abide by the terms of the statement.
 - b. Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace.
- 4. Making it a requirement that each employee to be engaged in the performance of the Contract be given a copy on the "Drug-Free Workplace" statement.
- 5. Taking one of the following appropriate actions, within thirty (30) working days of receiving notice from an employee or otherwise receiving such notice, that said employee has received a drug conviction for a violation occurring in the workplace:
 - a. Taking appropriate disciplinary action against such an employee, up to and including termination; or
 - b. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement or other appropriate agency.

* I certify that no person employed by this company, corporation, or business has been convicted of any criminal drug statute violation on any job site or project where this company, corporation, or business was performing work within three

(2) years of the date of my signature below.

EXCEPTION:

Date	Violation Type	Place of Occurrence
		If additional space is required use back of this form.

*The above statement will also be incorporated as a part of each subcontract agreement for any and all subcontractors selected for performance on this project.

IN THE EVENT THIS COMPANY, CORPORATION, OR BUSINESS IS AWARDED THIS CONSTRUCTION CONTRACT, AS A RESULT OF THIS BID; THE PROPOSER WITH HIS/HER SIGNATURE REPRESENTS TO THE CITY THAT THE INFORMATION DISCLOSED IN THIS DOCUMENT IS COMPLETE AND ACCURATE. IT IS UNDERSTOOD AND AGREED THAT FALSE CERTIFICATION IS SUBJECT TO IMMEDIATE TERMINATION BY THE CITY.

The Representations Made Herein On This Document Are Made Under Penalty Of Perjury.

BY:	Date:
	Signatura

Signature Title **Effects of violations:** a. Suspension of payments under this contract. b. Suspension or termination of the contract. c. Suspension or debarment of the contractor from receiving any contract from the City of Goleta for a period not to exceed five years. FM 681 7/10/9

PROP-26

COMPLIANCE WITH ECONOMIC SANCTIONS

IN RESPONSE TO RUSSIA'S ACTIONS IN UKRAINE

SAPC Information Notice 22-15

Per Executive Order N-6-22, all contractors and grantees that have agreements valued at \$5 million or more with agencies/departments subject to the California Governor's authority are directed to report to their contracting or grantor agency or department regarding their compliance with economic sanctions imposed by the U.S. government in response to Russia's actions in Ukraine, as well as sanctions imposed under state law, if any.

Instructions: Complete Section 1, provide a letter for Section 2 and return both to your CPA.

1) ATTESTATION OF COMPLIANCE:

in response to Russia's actions in Ukraine, as well as sanctions imposed under state law, if any.

Contractor/Provider Name (Printed):	Contract Number (s):
Der (Authorizod Cirroturo)	
By (Authorized Signature):	
Printed name and title of authorized signor:	
Date of Signed Attestation of Compliance:	

2) REPORT OF ACTIONS/STEPS TAKEN:

Attach a brief report to this notice form, on your agency letterhead describing the steps and actions, if any, you have taken in response to Russia's actions in Ukraine and to ensure compliance with the EO. *Please note that responses may be subject to disclosure under the California Public Records Act. Accordingly, please do not include any confidential information or disclosures that could pose security risks.*

Fleet Compliance Certification.

Bidder hereby acknowledges that they have reviewed the California Air Resources Board's policies, rules and regulations and are familiar with the requirements of Title 13, California Code of Regulations, Division 3, Chapter 9, effective on January 1, 2024 (the "Regulation"). Bidder hereby certifies, subject to penalty for perjury, that the option checked below relating to the Bidder's fleet, and/or that of their subcontractor(s) ("Fleet") is true and correct:

The Fleet is subject to the requirements of the Regulation, and the appropriate Certificate(s) of Reported Compliance have been attached hereto.

The Fleet is exempt from the Regulation under section 2449.1(f)(2), and a signed description of the subject vehicles, and reasoning for exemption has been attached hereto.

Bidder and/or their subcontractor is unable to procure R99 or R100 renewable diesel fuel as defined in the Regulation pursuant to section 2449.1(f)(3). Bidder shall keep detailed records describing the normal refueling methods, their attempts to procure renewable diesel fuel and proof that shows they were not able to procure renewable diesel (i.e. third party correspondence or vendor bids).

The Fleet is exempt from the requirements of the Regulation pursuant to section 2449(i)(4) because this Project has been deemed an Emergency, as defined under section 2449(c)(18). Bidder shall only operate the exempted vehicles in the emergency situation and records of the exempted vehicles must be maintained, pursuant to section 2449(i)(4).

The Fleet does not fall under the Regulation or are otherwise exempted and a detailed reasoning is attached hereto.

Name of Bidder:
Signature:
Name:
Title:
Date:

SECTION IV AGREEMENT

PUBLIC WORKS CONTRACT BETWEEN THE CITY OF GOLETA AND

This Public Works Contract (herein referred to as "CONTRACT") is made and entered into by and between the **CITY OF GOLETA**, a municipal corporation (herein referred to as "CITY"), and ______, a _____ (hereinafter referred to as "CONTRACTOR").

SECTION A. RECITALS

- 1. Pursuant to the Notice Inviting Sealed Bids for the _____ Project, bids were received, publicly opened, and declared on the date specified in the notice.
- On _____, Goleta's City Council declared CONTRACTOR to be the lowest responsible bidder and accepted the bid of CONTRACTOR and the City Council, approved this CONTRACT and authorized the City Manager to execute the CONTRACT with CONTRACTOR for furnishing labor, equipment, and material for the _____ Project in the City of Goleta.

NOW, THEREFORE, in consideration of the foregoing and the mutual covenants herein contained, it is agreed:

SECTION B. TERMS

- <u>GENERAL SCOPE OF WORK:</u> CITY agrees to engage CONTRACTOR and CONTRACTOR agrees to furnish all necessary labor, tools, materials, appliances, and equipment for and do the work for the ______ Project in the City of Goleta. The work shall be performed in accordance with the Plans and Specifications (and as generally described in the "Notice Inviting Sealed Bids," attached as Exhibit A) and in accordance with bid prices set forth in CONTRACTOR'S Bid Proposal (attached as Exhibit B) and in accordance with the instructions of the City Engineer, or City's Manager's designee.
- 2. INCORPORATED DOCUMENTS TO BE CONSIDERED COMPLEMENTARY: The contract documents for the aforesaid project, a complete set of which is on file with the Goleta City Clerk's Office, shall consist of the Notice Inviting Bids, Instructions to Bidders, Bid Proposal, Standard Specifications, Special Provisions, and all referenced specifications, details, standard drawings, and appendices; together with this CONTRACT and all required bonds, insurance certificates, permits, notices and affidavits; and also, including any and all addenda or supplemental agreements clarifying, amending, or extending the work contemplated as may be required to insure its completion in an acceptable



manner. All of the provisions of said contract documents are made a part hereof as though fully set forth herein. This contract is intended to require a complete and finished piece of work and anything necessary to complete the work properly and in accordance with the law and lawful governmental regulations shall be performed by CONTRACTOR whether set out specifically in the contract or not. Should it be ascertained that any inconsistency exists between the aforesaid documents and this written CONTRACT, the provisions of this CONTRACT, and the Standard Specifications, in that order, shall control. Collectively, these contract documents constitute the complete CONTRACT between CITY and CONTRACTOR and supersede any previous agreements or understandings.

- 3. <u>COMPENSATION</u>: CONTRACTOR agrees to receive and accept the prices set forth in its Bid Proposal as full compensation for furnishing all materials, performing all work, and fulfilling all obligations hereunder. Said compensation shall cover all expenses, losses, damages, and consequences arising out of the nature of the work during its progress or prior to its acceptance including those for well and faithfully completing the work and the whole thereof in the manner and time specified in the aforesaid contract documents; and also including those arising from actions of the elements, unforeseen difficulties or obstructions encountered in the prosecution of the work, suspension or discontinuance of the work, and all other unknowns or risks of any description connected with the work.
- 4. <u>TIME OF PERFORMANCE:</u> CONTRACTOR agrees to complete the work within the timeframe specified in the Contract Documents from the date of the notice to proceed. By signing this CONTRACT, CONTRACTOR represents to CITY that the contract time is reasonable for completion of the work and that CONTRACTOR will complete such work within the contract time. In accordance with Government Code Section 53069.85, CONTRACTOR agrees to forfeit and pay CITY as liquidated damages, not as a penalty, the sum of \$_____ per day for each and every day of unauthorized delay beyond the completion date, which amount shall be deducted from any payments due or to become due the CONTRACTOR.

5. PREVAILING WAGES:

A. Pursuant to Labor Code Sections §§1720 *et seq.*, including but not limited to sections 1771, 1774 and 1775, and as specified in Title 8, California Code of Regulations, Section 16000 et seq., CONTRACTOR must pay its workers prevailing wages. It is CONTRACTOR's responsibility to interpret and implement any prevailing wage requirements and CONTRACTOR agrees to pay any penalty or civil damages resulting from a violation of the prevailing wage laws.



- B. In accordance with Labor Code Section 1773.2, copies of the prevailing rate of per diem wages are available upon request from CITY's Engineering Division or the website for State of California Prevailing wage determination at <u>http://www.dir.ca.gov/DLSR/PWD</u>. CONTRACTOR must post a copy of the prevailing rate of per diem wages at the job site.
- C. CITY directs CONTRACTOR's attention to Labor Code Sections 1777.5, 1777.6 and 3098 concerning the employment of apprentices by CONTRACTOR or any subcontractor.
- D. Labor Code Section 1777.5 requires CONTRACTOR or subcontractor employing tradesmen in any apprenticeship occupation to apply to the joint apprenticeship committee nearest the site of the public works project and which administers the apprenticeship program in that trade for a certificate of approval. The certificate must also fix the ratio of apprentices to journeymen that will be used in the performance of the contract. The ratio of apprentices to journeymen in such cases will not be less than one to five except:
 - (1) When employment in the area of coverage by the joint apprenticeship committee has exceeded an average of 15 percent in the 90 days before the request for certificate, or
 - (2) When the number of apprentices in training in the area exceeds a ratio of one to five, or
 - (3) When the trade can show that it is replacing at least 1/30 of its membership through apprenticeship training on an annual basis state-wide or locally, or
 - (4) When assignment of an apprentice to any work performed under a public works contract would create a condition that would jeopardize his or her life or the life, safety, or property of fellow employees or the public at large, or the specific task to which the apprentice is to be assigned is of a nature that training cannot be provided by a journeyman.

Pursuant to Labor Code § 1776, CONTRACTOR shall comply with all Department of Industrial Relations registration requirements.

E. CONTRACTOR is required to make contributions to funds established for the administration of apprenticeship programs if CONTRACTOR employs registered apprentices or journeymen in any apprenticeable trade on such contracts and if other contractors on the public works site are making such contributions.

- F. CONTRACTOR and any subcontractor must comply with Labor Code Sections 1777.5 and 1777.6 in the employment of apprentices.
- G. Information relative to apprenticeship standards, wage schedules and other requirements may be obtained from the Director of Industrial Relations (DIR), ex-officio the Administrator of Apprenticeship, San Francisco, California, or from the Division of Apprenticeship Standards and its branch offices.
- H. CONTRACTOR and its subcontractors must keep an accurate certified payroll records showing the name, occupation, and the actual per diem wages paid to each worker employed in connection with this CONTRACT. The record will be kept open at all reasonable hours to the inspection of the body awarding the contract and to the Division of Labor Law Enforcement. If requested by CITY, CONTRACTOR must provide copies of the records at its cost.
- 6. <u>LEGAL HOURS OF WORK:</u> CONTRACTOR agrees to comply with the provisions of California Labor Code Section 1813 concerning penalties for workers who work excess hours. Except as provided by Labor Code Section 1815, the CONTRACTOR shall, as a penalty to the CITY, forfeit twenty five dollars (\$25) for each worker employed in the execution of the Contract by the CONTRACTOR or by any Subcontractor for each calendar day during which such worker is required or permitted to work more than 8 hours in any one calendar day and 40 hours in any one calendar week in violation of the provisions of Division 2, Part 7, Chapter 1, Article 3 (commencing at Section 1810) of the California Labor Code.
- TRAVEL AND SUBSISTENCE PAY: CONTRACTOR agrees to pay travel and subsistence pay to each worker needed to execute the work required by this CONTRACT as such travel and subsistence payments are defined in the applicable collective bargaining agreements filed in accordance with Labor Code Section 1773.8.
- 8. <u>CONTRACTOR'S LIABILITY:</u> The CITY and its officers, agents and employees ("Indemnitees") shall not be answerable or accountable in any manner for any loss or damage that may happen to the work or any part thereof, or for any of the materials or other things used or employed in performing the work; or for injury or damage to any person or persons, either workers or employees of CONTRACTOR, of its subcontractors or the public, or for damage to adjoining or other property from any cause whatsoever arising out of or in connection with the

performance of the work. CONTRACTOR shall be responsible for any damage or injury to any person or property resulting from defects or obstructions or from any cause whatsoever.

CONTRACTOR will indemnify Indemnities against and will hold and save Indemnitees harmless from any and all actions, claims, damages to persons or property, penalties, obligations or liabilities that may be asserted or claimed by any person, firm, entity, corporation, political subdivision, or other organization arising out of or in connection with the work, operation, or activities of CONTRACTOR, its agents, employees, subcontractors or invitees provided for herein, whether or not there is concurrent passive negligence on the part of CITY. In connection therewith:

- a. CONTRACTOR will defend any action or actions filed in connection with any such claims, damages, penalties, obligations or liabilities and will pay all costs and expenses, including attorneys' fees, expert fees and costs incurred in connection therewith.
- b. CONTRACTOR will promptly pay any judgment rendered against CONTRACTOR or Indemnitees covering such claims, damages, penalties, obligations and liabilities arising out of or in connection with such work, operations or activities of CONTRACTOR hereunder, and CONTRACTOR agrees to save and hold the Indemnitees harmless therefrom.
- c. In the event Indemnitees are made a party to any action or proceeding filed or prosecuted against CONTRACTOR for damages or other claims arising out of or in connection with the work, operation or activities hereunder, CONTRACTOR agrees to pay to Indemnitees and any all costs and expenses incurred by Indemnitees in such action or proceeding together with reasonable attorneys' fees.

CONTRACTOR'S obligations under this section apply regardless of whether or not such claim, charge, damage, demand, action, proceeding, loss, stop notice, cost, expense, judgment, civil fine or penalty, or liability was caused in part or contributed to by an Indemnitee. However, without affecting the rights of CITY under any provision of this CONTRACT, Contractor shall not be required to indemnify and hold harmless CITY for liability attributable to the active negligence of CITY, provided such active negligence is determined by agreement between the parties or by the findings of a court of competent jurisdiction. In instances where CITY is shown to have been actively negligent and where CITY active negligence accounts for only a percentage of the liability involved, the obligation of Contractor



will be for that entire portion or percentage of liability not attributable to the active negligence of City.

So much of the money due to CONTRACTOR under and by virtue of the contract as shall be considered necessary by CITY may be retained by CITY until disposition has been made of such actions or claims for damages as aforesaid.

It is expressly understood and agreed that the foregoing provisions are intended to be as broad and inclusive as is permitted by the law of the State of California. This indemnity provision shall survive the termination of the CONTRACT and is in addition to any other rights or remedies which Indemnitees may have under the law.

This indemnity is effective without reference to the existence or applicability of any insurance coverage which may have been required under this CONTRACT or any additional insured endorsements which may extend to Indemnitees.

CONTRACTOR, on behalf of itself and all parties claiming under or through it, hereby waives all rights of subrogation and contribution against the Indemnitees, while acting within the scope of their duties, from all claims, losses and liabilities arising out of or incident to activities or operations performed by or on behalf of the CONTRACTOR regardless of any prior, concurrent, or subsequent passive negligence by the Indemnitees.

- 9. <u>THIRD-PARTY CLAIMS:</u> In accordance with Public Contracts Code Section 9201, CITY will promptly inform CONTRACTOR regarding third-party claims against CONTRACTOR, but in no event later than ten (10) business days after CITY receives such claims. Such notification will be in writing and forwarded in accordance with the "Notice" section of this CONTRACT. As more specifically detailed in the contract documents, CONTRACTOR agrees to indemnify and defend the City against any third-party claim.
- 10. WORKERS COMPENSATION: In accordance with California Labor Code Sections 1860 and 3700, CONTRACTOR and each of its subcontractors will be required to secure the payment of compensation to its employees. In accordance with the provisions of California Labor Code Section 1861, CONTRACTOR, by signing this contract, certifies as follows: "I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract."



Public Works Contract - Rev. June 2024

- **11.**<u>INSURANCE:</u> With respect to performance of work under this CONTRACT, CONTRACTOR shall maintain and shall require all of its subcontractors to maintain insurance as required in the Standard Specifications.
- **12.** <u>ASSIGNMENT</u>: This CONTRACT is not assignable nor the performance of either party's duties delegable without the prior written consent of the other party. Any attempted or purported assignment or delegation of any of the rights of obligations of either party without the prior written consent of the other shall be void and of no force and effect.
- **13. INDEPENDENT CONTRACTOR:** CONTRACTOR is and shall at all times remain as to the CITY, a wholly independent contractor. Neither the CITY nor any of its agents shall have control of the conduct of CONTRACTOR or any of CONTRACTOR'S employees, except as herein set forth. CONTRACTOR shall not at any time or in any manner represent that it or any of its agents or employees are in any manner agents or employees of CITY.
- 14. <u>TAXES</u>: CONTRACTOR is responsible for paying all retail sales and use, transportation, export, import, special or other taxes and duties applicable to, and assessable against any work, materials, equipment, services, processes and operations incidental to or involved in this contract. CONTRACTOR is responsible for ascertaining and arranging to pay them. The prices established in the contract shall include compensation for any taxes CONTRACTOR is required to pay by laws and regulations in effect at the bid opening date.
- **15.** <u>LICENSES:</u> CONTRACTOR represents and warrants to CITY that it has all licenses, permits, qualifications, insurance, and approvals of whatsoever nature which are legally required of CONTRACTOR to practice its profession. CONTRACTOR represents and warrants to CITY that CONTRACTOR shall, at its sole cost and expense, keep in effect or obtain at all times during the term of this CONTRACT any licenses, permits, insurance, and approvals which are legally required of CONTRACTOR to practice its profession. CONTRACTOR shall maintain a City of Goleta business license, if required under CITY ordinance.
- 16. <u>RECORDS</u>: CONTRACTOR shall maintain accounts and records, including personnel, property, and financial records, adequate to identify and account for all costs pertaining to this CONTRACT and such other records as may be deemed necessary by CITY or any authorized representative, and will be retained for three years after the expiration of this CONTRACT. All such records shall be made available for inspection or audit by CITY at any time during regular business hours.



- 17. <u>SEVERABILITY:</u> If any portion of these contract documents are declared by a court of competent jurisdiction to be invalid or unenforceable, then such portion will be deemed modified to the extent necessary in the opinion of the court to render such portion enforceable and, as so modified, such portion and the balance of this CONTRACT will continue in full force and effect provided that it does not frustrate the mutual intent of the parties herein.
- 18. WHOLE AGREEMENT: This CONTRACT supersedes any and all other agreements either oral or written, between the parties and contains all of the covenants and agreements between the parties pertaining to the work of improvements described herein. Each party to this contract acknowledges that no representations, inducements, promises or agreements, orally or otherwise, have been made by any party, or anyone acting on behalf of any party, which are not embodied herein, and that any other agreement, statements or promise not contained in this contract shall not be valid or binding. Any modifications of this contract will be effective only if signed by the party to be charged.
- **19.** <u>AUTHORITY:</u> CONTRACTOR affirms that the signatures, titles, and seals set forth hereinafter in execution of this CONTRACT represent all individuals, firm members, partners, joint ventures, and/or corporate officers having a principal interest herein. Each party warrants that the individuals who have signed this CONTRACT have the legal power, right, and authority to make this CONTRACT and to bind each respective party. This CONTRACT may be modified by written amendment. CITY's City Manager may execute any such amendment on CITY's behalf.
- **20.**<u>NOTICES:</u> All notices permitted or required under this CONTRACT shall be in writing, and shall be deemed made when delivered to the applicable party's representative as provided in this CONTRACT. Additionally, such notices may be given to the respective parties at the following addresses, or at such other addresses as the parties may provide in writing for this purpose.

Such notices shall be deemed made when personally delivered or when mailed forty-eight (48) hours after deposit in the U.S. mail, first-class postage prepaid, and addressed to the party at its applicable address. Courtesy copies of notices may be sent via electronic mail, provided that the original notice is deposited in the U.S. mail or personally delivered as specified in this Section.

CITY OF GOLETA 130 Cremona Drive, Suite B



Goleta, CA 93117 Attn: City Manager

CONTRACTOR

21. <u>DISPUTES:</u>	Disputes arising from	this contract v	vill be deteri	mined in	accordanc	ce
with the cont	ract documents.					

- 22. <u>NONDISCRIMINATION:</u> The CITY reaffirms its ongoing commitment to equality in the conduct of City business, and prohibits any policy, plan, program, custom or practice, including harassment, in the conduct of City business. No discrimination or discriminatory practice shall occur in either employment of persons for, or completion of, the work contemplated by this CONTRACT, when such discrimination is based on race, color, national origin, or ancestry; religion; sex; gender, gender identity, gender expression, or gender transitioning status; physical disability, mental disability, medical condition, or genetic information; marital or domestic partner status; citizenship status; age; sexual orientation; exercising a legally protected right to an employment leave of absence; status as a victim of domestic violence, sexual assault, or stalking; reproductive health decision-making, or any other classification protected under state or federal law. Among other possible violations of law, a violation of this section exposes CONTRACTOR to the penalties provided for in Labor Code Section 1735.
- 23. <u>PAPER PRODUCTS AND PRINTING REQUIREMENTS</u>: To the extent this contract provides paper products, and printing and writing paper for the City, CONTRACTOR must meet quality standards and criteria specified in <u>SB 1383</u>, <u>Sections 22150-22154 of the Public Contract Code</u> and <u>16 Code of Federal Regulations (CFR) Section 260.12</u> by:
 - a. If fitness and quality are equal, provide recycled products, instead of nonrecycled products whenever recycled products are available at the same or a lesser total cost than nonrecycled items.
 - b. Provide paper products and printing and writing paper that meet Federal Trade Commission recyclability standard as defined in 16 CFR Section 260.12.
 - c. Certify in writing, under penalty of perjury, the minimum percentage of postconsumer material in the paper products and printing and writing paper offered or sold to the City. This certification requirement may be



waived if the percentage of postconsumer material in the paper products, printing and writing paper, or both can be verified by a product label, catalog, invoice, or a manufacturer or vendor internet website.

- d. Certify in writing, on invoices or receipts provided, that the paper products and printing and writing paper offered or sold to the City is eligible to be labeled with an unqualified recyclable label as defined in 16 CFR Section 260.12.
- e. Comply with any other requirements in Goleta Municipal Code Section 8.10.900(B).

24. <u>ORGANIC WASTE USE REQUIREMENTS</u>: To the extent this contract provides landscaping maintenance, renovation, and construction services, CONTRACTOR must:

- a. Use compost and SB 1383 eligible mulch, as practicable, produced from recovered organic waste, for all landscaping renovations, construction, or maintenance performed for the City, whenever available, and capable of meeting quality standards and criteria specified. SB 1383 eligible mulch used for land application must comply with 14 CCR Section 18993.1 18993.4, and must meet or exceed the physical contamination, maximum metal concentration and pathogen density standards specified in 14 CCR Sections 17852(a)(24.5)(A)(1) through (3).
- Keep and provide records of procurement of recovered organic waste products (either through purchase or acquisition) to the City's Designated Representative, upon completion of projects. Information to be provided must include:
 - i. General description of how and where the product was used and if applicable, applied;
 - ii. Source of product, including name, physical location, and contact information for each entity, operation, or facility from whom the recovered organic waste products were procured;
 - iii. Type of product;
 - iv. Quantity of each product; and,
 - v. Invoice or other record demonstrating purchase or procurement.
- c. Comply with all requirements in Goleta Municipal Code Section 8.10.900(A).



- 25. <u>NO THIRD-PARTY BENEFICIARY</u>: This CONTRACT and every provision herein is for the exclusive benefit of CONTRACTOR and CITY and not for the benefit of any other party. There will be no incidental or other beneficiaries of any of the CONTRACTOR's or the CITY's obligations under this Contract.
- 26.<u>TIME IS OF ESSENCE:</u> Time is of the essence for each and every provision of the Contract Documents.
- 27. ACCEPTANCE OF FACSIMILE OR ELECTRONIC SIGNATURES: The Parties agree that this CONTRACT, agreements ancillary to this CONTRACT, and related documents to be entered into in connection with this CONTRACT will be considered signed when the signature of a party is delivered by facsimile transmission or scanned and delivered via electronic mail. Such facsimile or electronic mail copies will be treated in all respects as having the same effect as an original signature.
- 28. <u>GOVERNING LAW:</u> This CONTRACT shall be governed by the laws of the State of California, and exclusive venue for any action involving this CONTRACT will be in Santa Barbara County.

IN WITNESS WHEREOF, the parties hereto have executed this CONTRACT with all the formalities required by law on the respective dates set forth opposite their signatures.

This CONTRACT is executed on this _____ day of _____, at Goleta, California, and effective as of _____, 20___.

CITY OF GOLETA:

Robert Nisbet, City Manager

ATTEST:

Deborah Lopez, City Clerk



APPROVED AS TO FORM: ISAAC ROSEN, ACTING CITY ATTORNEY

Scott Shapses, Deputy City Attorney

CONTRACTOR:

Name, Title

State of California License No.

Department of Industrial Relations Registration No.

Business Phone No.

CONTRACTOR'S Emergency Phone No. at which contractor can be reached at any time

Name, Title



Public Works Contract [COMPANY] Page 13 of 14

EXHIBIT A NOTICE INVITING SEALED BIDS

Public Works Contract - Rev. June 2024



Public Works Contract [COMPANY] Page 14 of 14

EXHIBIT B BID PROPOSAL

Public Works Contract - Rev. June 2024



SECTION V INSURANCE AND BONDS

General Liability Insurance

The general liability must be at least combined single limits of no less than \$2,000,000 per occurrence for all covered losses and no less than \$4,000,000 general aggregate, \$25,000,000 Umbrella or excess liability, and must contain:

- 1. Extension of coverage to the City, its officials, officers, agents and employees, as additional insureds, with respect to Contractor's liabilities hereunder in insurance coverages identified above;
- A provision that coverage will not be canceled or subject to reduction until at least thirty (30) working days' prior written notice has been given to the City Clerk, addressed to 130 Cremona Drive, Suite B, Goleta, CA 93117;
- 3. A provision that Contractor's insurance shall apply as primary, and not excess of, or contributing with, the City;
- 4. Contractual liability coverage sufficiently broad so as to include the liability assumed by the Contractor in the indemnity and hold harmless provisions of the Standard Condition;
- 5. A cross liability clause, or equivalent wording, stating that coverage will apply separately to each named or additional insured as if separate policies had been issued to each;
- 6. A broad form property damage endorsement;
- 7. A provision that the policies be provided on an "occurrence" basis;
- 8. Coverage for XCU (explosion, collapse, underground) hazards if applicable to the work; and
- 9. Products and completed operations coverage.

Umbrella or Excess Liability policies (Over Primary) if used to meet limit requirements shall provide coverage at least as broad as specified for underlying coverages and covering those insured in the underlying policies. Any such policy shall include a drop-down provision providing primary coverage above a maximum \$25,000 self-insured retention for liability not covered by primary but covered by the umbrella. Coverage shall be "pay on behalf," with defense costs payable in addition to policy limits. There shall be no cross-liability exclusion of claims or suits by one insured against another. Coverage shall be applicable to City for injury to employees of Contractor, subcontractors or others involved in the Work. Limits are subject to review but in no event less than \$2,000,000 per occurrence for all covered losses and no less than \$4,000,000 general aggregate, except with respect to umbrella or excess liability which must be no less than the amount set forth above.

Approval of insurance by the City or acceptance of the certificate of insurance by City shall not relieve or decrease the extent to which the Contractor may be held responsible for payment of damages resulting from Contractor's services or operation pursuant to the Agreement, nor shall it be deemed a waiver of City's rights to insurance coverage hereunder.

Policy Forms, Endorsements and Certificates

Provide and maintain current certificates of Insurance on forms supplied by the City and evidencing the above coverage to City prior to execution of this Agreement by City. Exercise due diligence to require any and all subcontractors and/or sub-subcontractors and all tiers of such subcontractors to provide General and Automobile Liability, and Workers' Compensation and Employer's Liability Insurance with minimum limits of coverage and upon terms and provisions required above.

NOTICE TO INSURANCE BROKER

Your client has been awarded a bid by the City Council of the City of Goleta to perform a public works project known as ______. The Contract Conditions for that project require your client ("the Contractor") to return certain evidence of insurance and bonds to the City Attorney of the City within fifteen (15) working days after the Bid award, or else the Bid award may be terminated and awarded to another company.

This package contains the information you will need as an insurance broker to provide the appropriate insurance and bonds to the City. The insurance coverages the Contractor needs are specified in the section entitled "Insurance Requirements." Please note that, in addition to the insurance certificate itself, copies of several endorsements must be actually furnished for review.

Please refer to Special Provisions for modifications of the Standard Construction Specifications and the requirements of this insurance packet.

Please use the standard City of Goleta Bond Forms provided in this package.

The Bonds required must each be in the penal amount of: \$_____.

Documents should be forwarded to or questions addressed to:

Office of the City Attorney City of Goleta 130 Cremona Drive, Suite B Goleta, CA 93117 (805) 961-7500

When forwarding the documents, please refer to the project name so that the documents can be matched with the Contract for which they are submitted. Thank you.

INSURANCE REQUIREMENTS

In addition to Section 7-1.06 INSURANCE of the State Standard Specifications the:

- A. Evidence of Maintenance Required. The Contractor shall, at all times, maintain in full force and effect at a minimum the insurance required by this section; and the Contractor shall not allow any subcontractor to commence work until similar insurance required of the subcontractor has been obtained and filed. An original Certificate of Insurance, and copies of all required endorsements, all in a form approved by the Director, evidencing all required coverage or policies shall be filed after the award of the bid and prior to approval of the Contract by the City Council. Contractor shall provide ten (10) working days prior written notice to the City of any reduction of coverage limits or cancellation of the coverage or policies shall be given to the City of Goleta as Certificate holder.
- B. Qualifying Insurers. With the exception of the State Compensation Insurance Fund, all required insurance policies shall be issued by companies licensed to do business in the State of California and who hold a current policy holders alphabetic and financial size category rating of not less than AVII according to the most recent issue of Best' s Insurance Reports.
- C. Insurance Required. Commercial General Liability, automobile liability, and workers' compensation insurance shall be maintained as follows:

1.

Commercial General Liability for Minor Construction Projects (Projects under \$1,000,000)	 \$2,000,000 each occurrence \$4,000,000 aggregate 5,000,000.00 Umbrella or excess liability Personal Injury: \$2,000,000 each occurrence \$4,000,000 aggregate \$5,000,000.00 Umbrella or excess liability
Commercial General Liability for Major Construction Projects (Projects over \$1,000,000)	\$5,000,000 each occurrence \$10,000,000 aggregate 25,000,000.00 Umbrella or excess liability Personal Injury: \$5,000,000 each occurrence \$10,000,000 aggregate \$25,000,000.00 Umbrella or excess liability

The Commercial General Liability policy shall include coverage or endorsements for:

- a. Completed operations.
- b. Losses related to independent contractors, products and equipment.
- c. Explosion, collapse and underground hazards.

The Commercial General Liability insurance shall include the following, copies of which shall be provided:

- a. Inclusion of the City of Goleta, and its officers, agents, employees, and volunteers, as additional insureds (except for workers" compensation) as respects services or operations under the Contract. The additional insured endorsement for the general liability policy shall be at least as broad as the Insurance Services Office ("ISO") CG 20 38 04 13 or an equivalent, blanket endorsement or section of the policy. Endorsements must include coverage for on-going and completed operations. Endorsements shall cover the City of Goleta, its officers, agents, employees, and volunteers.
- b. Cross liability and severability of interest clauses providing that the insurance applies separately to each insured except with respect to the limits of liability.
- c. Stipulation that the insurance is primary and noncontributory, as evidenced by a separate endorsement (CG 20 01 04 13 or an equivalent) or section of the policy, and that neither the City nor its insurers will be called upon to contribute to a loss.
- d. Such insurance shall specifically cover the contractual liability of the CONTRACTOR.
- e. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be: (1) the minimum coverage and limits specified in this Agreement; or (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater.
- f. Waiver of subrogation endorsement.
- g. The CONTRACTOR shall furnish a certificate for the period covered.

SPECIAL NOTICE - CLAIMS MADE COVERAGE:

Liability insurance coverage may not be written on a "claims made" basis. The Certificate of Insurance must clearly provide that the coverage is on an "occurrence" basis.

- 1. <u>Comprehensive Automobile Liability</u> for bodily injury (including death) and property damage which provides total limits of not less than One Million Dollars (\$1,000,000) combined single limits per accident, applicable to all owned, non-owned, and hired vehicles.
- Statutory Workers' Compensation and Employer' s Liability Insurance, including a waiver of subrogation endorsement and a Broad Form "All-States" Endorsement for all employees engaged in services or operations under the Contract. The employer's liability insurance shall provide limits of not less than One Million Dollars (\$1,000,000) per occurrence. Both the workers' compensation and employer's liability policies shall contain

the Insurer's waiver of subrogation in favor of the City, its officers, agents, employees, and volunteers.

7-1.12.2 BUILDER'S RISK/COURSE OF CONSTRUCTION INSURANCE:

The Contractor shall be responsible for all loss, damage or destruction whatsoever to the work called for by this Contract until the approval of a Notice of Completion.

The Contractor shall secure "All Risk" type of builder's Risk Insurance of the type covering one hundred percent (100%) of the value of the work performed under this Contract (the value is presumed to be the Contract amount unless otherwise stated in Supplemental Conditions) and all materials, equipment, or other items to be incorporated therein while the same are located at the construction site, a bonded warehouse, or its place of manufacture. At any time, the policy shall cover the value of the work completed. The policy shall cover hazards including the losses due to fire, explosion, hail, rain, lightning, flood (separate insurance as needed), vandalism, malicious mischief, wind, collapse, aircraft, and smoke.

The policies providing such insurance shall name the City as a loss payee as its respective interests may appear, and certified copies of such policies shall be filed with the City. The maximum deductible allowable under the Builder's All Risk policy shall be five percent (5%) of the Contract amount.

Builder's Risk Insurance is not required for coverage of losses in excess of five percent (5%) of the Contract amount for damages resulting from earthquake in excess of a magnitude of 3.5 on the Richter scale, or tidal waves. Coverage in the amount of five percent (5%) of the Contract amount for such losses is required.

7-1.12.3 OTHER INSURANCE PROVISIONS:

- A. The requirements of the State Standard Specifications as to types and limits of insurance coverage to be maintained by the Contractor, and any approval of insurance by the City, are not intended to, and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by the Contractor pursuant to the Contract, including, but not limited to, the provisions concerning indemnification, nor preclude the City from taking any other action available to it under any other provision of the Contract or law.
- B. The City acknowledges that some insurance requirements contained in these provisions may be fulfilled by self-insurance on the part of the Contractor. However, this shall not in any way limit liabilities assumed by Contractor under the Contract. Any self-insurance must be approved in writing by the City, in its sole discretion and shall not reduce the limits of liability. Any deductibles or self-insured retentions ("SIR") must be declared on the certificate of insurance and approved by CITY in writing. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or CITY. CITY reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.
- C. The Contractor agrees to include in its contracts with all subcontractors the same requirements and provisions of this Contract, including the indemnity and insurance requirements, to the extent they apply to the scope of the subcontractor"s work. Furthermore, the Contractor shall require its subcontractors to agree to be bound to the Contractor and the City in the same manner and to the same extent as the Contractor is bound to the City under this Contract. Additionally, the Contractor shall obligate its

subcontractors to comply with these same provisions with respect to any tertiary subcontractor, regardless of tier. A copy of the City's indemnity and insurance provisions will be furnished to the subcontractor or tertiary subcontractor upon request. Alternatively, the Contractor may insure subcontractor(s) under its own policy.

- D. The City, its officers, agents, employees, and volunteers are to be covered as insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of the contractor; and with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts or equipment furnished in connection with such work or operations. Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under California Insurance Code Section 11580.04.
- E. The limits of insurance required in this Contract may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of the City (if agreed to in a written contract) before the City's own insurance shall be called upon to protect it as a named insured.

F. THE CITY RESERVES THE RIGHT TO WITHHOLD ANY PROGRESS PAYMENTS TO THE ONTRACTOR IN THE EVENT OF NONCOMPLIANCE WITH ANY INSURANCE REQUIREMENTS.

Additional Insurance Requirements:

Contractor's pollution liability insurance. Coverage shall provide for liability arising out of sudden, accidental, and gradual pollution, and remediation. The policy limit shall be no less than \$1,000,000 per claim and in the aggregate. All activities contemplated in this agreement shall be specifically scheduled on the policy as "covered operations." The policy shall provide coverage for remediation of the site in the event of an environmental contamination event arising out of the materials, supplies, products, work, operations, or workmanship.

Transportation pollution liability insurance. Coverage shall be in an amount not less than \$5,000,000 combined single limit per accident and shall include Pollution Liability (CA9948) and MCS-90 Endorsements. The policy shall provide coverage for transportation of pollutants/contaminants to and from the job site and the hauling of waste from the project site to the final disposal location, including non-owned disposal sites.

FAITHFUL PERFORMANCE BOND

KNOW ALL PERSONS BY THESE PRESENTS:

THAT WHEREAS, the City of Goleta, has awarded to , (hereinafter referred to as the "Contractor") an agreement for the 2025 ARTERIAL PAVEMENT PROJECT (hereinafter referred to as the "Project"). For the purposes of this Faithful Performance Bond, the City of Goleta and Caltrans shall hereinafter be referred to as "City."

WHEREAS, the work to be performed by the Contractor is more particularly set forth in the Contract Documents for the Project dated ______, (hereinafter referred to as "Contract Documents"), the terms and conditions of which are expressly incorporated herein by reference; and

WHEREAS, the Contractor is required by said Contract Documents to perform the terms thereof and to furnish a bond for the faithful performance of said Contract Documents.

NOW, THEREFORE, we, ______, the undersigned Contractor and ______as Surety, a corporation organized and duly authorized to transact business under the laws of the State of California, are held and firmly bound unto the City in the sum of ______ DOLLARS, (\$______), said sum being not less than one hundred percent (100%) of the total amount of the Contract, for which amount well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

In the event the Contract is modified, amended, or supplemented in a manner that increases the total Contract price, including but not limited to any Change Order issued pursuant to the Contract, the Contractor shall furnish to the City, at Contractor's sole expense and within fifteen (15) calendar days of such modification, an executed Bond Rider to this Bond reflecting the revised Contract price and increasing the penal sum of this Bond accordingly. The Surety acknowledges and agrees that this obligation to provide a Bond Rider applies to all increases in the Contract amount regardless of whether the Surety has received separate notice of the Contract modification. The Surety further agrees that failure of the Contractor to provide such Bond Rider shall not relieve the Surety of its obligations under this Bond. Nothing in this paragraph shall be construed to limit the City's right to enforce the Bond up to the penal sum then in effect, or to require the City to accept work under a Change Order without such bond adjustment.

THE CONDITION OF THIS OBLIGATION IS SUCH, that, if the Contractor, his or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the Contract Documents and any alteration thereof made as therein provided, on its part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their intent and meaning; and shall faithfully fulfill all obligations including the one (1) year guarantee of all materials and workmanship; and shall indemnify and save harmless the City, its officials, officers, employees, and authorized volunteers, as stipulated in said Contract Documents, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect.

INS 7
ADDENDUM 1

As a part of the obligation secured hereby and in addition to the face amount specified therefore, there shall be included costs and reasonable expenses and fees including reasonable attorney's fees, incurred by City in enforcing such obligation.

As a condition precedent to the satisfactory completion of the Contract Documents, unless otherwise provided for in the Contract Documents, the above obligation shall hold good for a period of one (1) year after the acceptance of the work by City, during which time if Contractor shall fail to make full, complete, and satisfactory repair and replacements and totally protect the City from loss or damage resulting from or caused by defective materials or faulty workmanship. The obligations of Surety hereunder shall continue so long as any obligation of Contractor remains. Nothing herein shall limit the City's rights or the Contractor or Surety's obligations under the Contract, law or equity, including, but not limited to, California Code of Civil Procedure Section 337.15.

Whenever Contractor shall be, and is declared by the City to be, in default under the Contract Documents, the Surety shall remedy the default pursuant to the Contract Documents, or shall promptly, at the City's option:

Take over and complete the Project in accordance with all terms and conditions in the Contract Documents; or

Obtain a bid or bids for completing the Project in accordance with all terms and conditions in the Contract Documents and upon determination by Surety of the lowest responsive and responsible bidder, arrange for a Contract between such bidder, the Surety and the City, and make available as work progresses sufficient funds to pay the cost of completion of the Project, less the balance of the contract price, including other costs and damages for which Surety may be liable. The term "balance of the contract price" as used in this paragraph shall mean the total amount payable to Contractor by the City under the Contract and any modification thereto, less any amount previously paid by the City to the Contractor and any other set offs pursuant to the Contract Documents.

Permit the City to complete the Project in any manner consistent with California law and make available as work progresses sufficient funds to pay the cost of completion of the Project, less the balance of the contract price, including other costs and damages for which Surety may be liable. The term "balance of the contract price" as used in this paragraph shall mean the total amount payable to Contractor by the City under the Contract and any modification thereto, less any amount previously paid by the City to the Contractor and any other set offs pursuant to the Contract Documents.

Surety expressly agrees that the City may reject any contractor or subcontractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Contractor.

Surety shall not utilize Contractor in completing the Project nor shall Surety accept a bid from Contractor for completion of the Project if the City, when declaring the Contractor in default, notifies Surety of the City's objection to Contractor's further participation in the completion of the Project.

The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract Documents or to the Project to be performed thereunder shall in any way affect its obligations on this bond, and it does hereby



waive notice of any such change, extension of time, alteration or addition to the terms of the Contract Documents or to the Project.

Surety hereby waives the provisions of Sections 2819 and 2845 of the Civil Code of the State of California.

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INS 9
ADDENDUM 1

IN WITNESS WHEREOF, we have of, 20	hereunto set our hands and seals this day
(Corporate Seal)	Contractor/ Principal
	By
	Title
(Corporate Seal)	Surety
	By Attorney-in-Fact
(Attach Attorney-in-Fact Certificate)	Title
The rate of premium on this bond is premium charges is \$	s per thousand. The total amount of
(The above must be filled in by corpo	prate attorney.)
THIS IS A REQUIRED FORM	
Any claims under this bond may be a	addressed to:
Poprocontativo for convico of	
(Telephone number of Surety and Agent or Representative for service of process in California)	



Notary Acknowledgment

	NOLATY ACKNOW	ioaginon
A notary public or other certificate verifies only the ident signed the document to wh attached, and not the truthfulne of that document.	officer completing this tity of the individual who nich this certificate is ess, accuracy, or validity	
STATE OF CALIFORNIA		
COUNTY OF		
On, 20, bef	ore me,	, Notary Public, personally
appeared	, wh	o proved to me on the basis of satisfactory
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INS 11 ADDENDUM 1

Notary Acknowledgment

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STATE OF CALIFORNIA		
COUNTY OF		
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Trustee(s)		
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Name Of Person(s) Or Entity(ies)		
		Signer(s) Other Than Named Above
NOTE: This acknowledgment	is to be completed fo	r the Attorney-in-Fact. The Power-of

NOTE: This acknowledgment is to be completed for the Attorney-in-Fact. The Power-of Attorney to local representatives of the bonding company must also be attached.



END OF PERFORMANCE BOND

INS 13
ADDENDUM 1

LABOR AND MATERIAL PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS That

WHEREAS, the City of Goleta by action taken or a resolution passed ______, 20____, has awarded to _______ hereinafter designated as the "Principal," a contract for the work described as follows: the **2025 ARTERIAL PAVEMENT PROJECT** (the "Project"). the purposes of this Faithful Performance Bond, the City of Goleta and Caltrans shall hereinafter be referred to as "City."; and

WHEREAS, said Principal is required to furnish a bond in connection with said contract; providing that if said Principal or any of its Subcontractors shall fail to pay for any materials, provisions, provender, equipment, or other supplies used in, upon, for or about the performance of the work contracted to be done, or for any work or labor done thereon of any kind, or for amounts due under the Unemployment Insurance Code or for any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of said Principal and its Subcontractors with respect to such work or labor the Surety on this bond will pay for the same to the extent hereinafter set forth.

NOW THEREFORE, we, the Principal and ______ as Surety, are held and firmly bound unto the City in the penal sum of _____ Dollars (\$_____) lawful money of the United States of America, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if said Principal, his or its subcontractors, heirs, executors, administrators, successors or assigns, shall fail to pay any of the persons named in Civil Code Section 9100, fail to pay for any materials, provisions or other supplies, used in, upon, for or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or amounts due under the Unemployment Insurance Code with respect to work or labor performed under the contract, or for any amounts required to be deducted, withheld, and paid over to the Employment Development Department or Franchise Tax Board from the wages of employees of the contractor and his subcontractors pursuant to Revenue and Taxation Code Section 18663, with respect to such work and labor the Surety or Sureties will pay for the same, in an amount not exceeding the sum herein above specified, and also, in case suit is brought upon this bond, all litigation expenses incurred by the City in such suit, including reasonable attorneys' fees, court costs, expert witness fees and investigation expenses.

This bond shall inure to the benefit of any of the persons named in Civil Code Section 9100 so as to give a right of action to such persons or their assigns in any suit brought upon this bond.

It is further stipulated and agreed that the Surety on this bond shall not be exonerated or released from the obligation of this bond by any change, extension of time for performance, addition, alteration or modification in, to, or of any contract, plans, specifications, or agreement pertaining or relating to any scheme or work of improvement herein above described, or pertaining or relating to the furnishing of labor, materials, or equipment therefore, nor by any change or modification of any terms of payment or extension of the time for any payment pertaining or relating to any scheme or work of improvement herein above described, nor by any rescission or attempted rescission or attempted rescission of the contract, agreement or bond, nor by any conditions precedent or subsequent in the bond attempting to limit the right of recovery of claimants otherwise entitled to recover under any such contract or agreement or under the bond, nor by any fraud practiced by any person other than the claimant seeking to recover on the bond and that this bond be construed most strongly against the Surety and in favor of all persons for



whose benefit such bond is given, and under no circumstances shall Surety be released from liability to those for whose benefit such bond has been given, by reason of any breach of contract between the owner or City and original contractor or on the part of any obligee named in such bond, but the sole conditions of recovery shall be that claimant is a person described in Civil Code Section 9100, and has not been paid the full amount of his claim and that Surety does hereby waive notice of any such change, extension of time, addition, alteration or modification herein mentioned, including but not limited to the provisions of sections 2819 and 2845 of the California Civil Code.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this day of _____, 20___.

(Corporate Seal) Contractor/ Principal By_____ Title (Corporate Seal) Surety By _____ Attorney-in-Fact (Attach Attorney-in-Fact Certificate) Title

INS 15
INS 15 ADDENDUM 1

Notary Acknowledgment

A notary public or other certificate verifies only the identi- signed the document to which this and not the truthfulness, accur- document.	officer completing the sy of the individual where the sectificate is attached acy, or validity of the section o	nis no id, at
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Trustee(s)		
Guardian/Conservator	_	Date of Document
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Signer is representing: Name Of Person(s) Or Entity(ies)		
		Signer(s) Other Than Named Above

NOTE: This acknowledgment is to be completed for Contractor/Principal.



Notary Acknowledgment

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Corporate Officer		
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Partner(s)	Limited	
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Attorney-In-Fact		
Trustee(s)		
Guardian/Conservator		Date of Document
Other:		
Signer is representing:		
Name Of Person(s) Or Entity(ies)		
		Signer(s) Other Than Named Above

INS 17 ADDENDUM 1

attached.

END OF LABOR AND MATERIAL PAYMENT BOND

INS 18
ADDENDUM 1

SECTION VI

CITY OF GOLETA CONSTRUCTION SPECIFICATIONS

SECTION VI

CITY OF GOLETA CONSTRUCTION SPECIFICATIONS TABLE OF CONTENTS

Adoption of State Specifications	
Section 1. Definitions and Terms	GCS-2
Section 2. Proposal Requirements and Conditions	GCS-3
Section 3. Contract Award and Execution	GCS-6
Section 4. Scope of Work	GCS-7
Section 5. Control of Work	GCS-7
Section 6. Control of Material	GCS-9
Section 7. Legal Relations and Responsibility	GCS-9
Section 8. Prosecution and Progress	GCS-21
Section 9. Measurement and Payment	GCS-22

SECTION 1. DEFINITION AND TERMS

1-1.03 **ACCEPTANCE**. Shall mean the formal Acceptance by resolution of the Goleta City Council of an entire Contract which has been completed in all respects in accordance with the Plans and specifications and any modifications thereof previously approved, causing a notice of completion to be filed with the County Recorder.

1-1.13 **DEPARTMENT.** Shall mean the Department of Public Works of the City of Goleta, also referred to as the Department of Contract Administration. References made to the Department of Transportation otherwise shall mean the State of California Department of Transportation.

1-1.15 **DIRECTOR**. Shall mean the Public Works Director or his or her duly authorized representative.

1-1.17 [Reserved]

1-1.18 **ENGINEER**. Shall mean the Public Works Director or his or her duly authorized representative.

1-1.19 **ENGINEER'S ESTIMATE**. The estimate prepared by the Public Works Director of quantities of work to be performed.

1-1.26 **LIQUIDATED DAMAGE**. The amount to be deducted from payments due or to become due to the Contractor for delay, as set forth in the Special Provisions.

1-1.29 **PLANS.** The official project Plans, State Standard Plans, Improvement Plans, profiles, typical cross sections, general cross sections, working drawings, and supplemental drawings, or reproductions thereof, approved by the Director which show the location, character, dimensions and details of the work to be performed. All such documents are to be considered as a part of the Plans whether or not reproduced in the special provisions.

In the above definition, the following terms are defined as follows:

- (a) State Standard Plans The <u>2018</u> Standard Plans of the Department of Transportation of the State of California.
- (b) Revised State Standard Plans The Revised Standard Plans of the Department of Transportation of the State of California.
- (c) Project Plans The project Plans are specific details and dimension peculiar to the work and supplemented by the State Standard Plans, insofar as the same may apply.
- (d) Improvement Standards The Improvement Standards and Construction Standards of the City of Goleta Department of Public Works.

1-1.30 **SPECIFICATIONS.** State Standard Specifications, revised standard specifications, special provisions

In the above definition, the following terms are defined as follows:

- (a) State Standard Specifications Specifications standard to Caltrans' construction projects. These specifications are in a book titled Standard Specifications <u>2018</u>.
- (b) Revised Standard Specifications New or revised standard specifications. These specifications are in a section titled Revised Standard Specifications in a book titled REVISIONS TO THE STANDARD SPECIFICATIONS.
- (c) Special Provisions Specifications specific to the project. 1-1.39 STATE.

Reference to the State or State of California shall mean City or City of Goleta unless the reference is to a law or regulation of the State.

1-1.50 CITY ATTORNEY.

The City Attorney of the City of Goleta.

1-1.51 ATTORNEY GENERAL.

The City Attorney of the City of Goleta. 1-1.52 **CITY CLERK.** Shall mean the City Clerk of the City of Goleta.

SECTION 2. PROPOSAL REQUIREMENTS AND CONDITIONS

2-1.03 EXAMINATION OF PLANS, SPECIFICATIONS, CONTRACT, AND SITE OF WORK

The bidder shall examine carefully the site of the work contemplated, the plans and specifications, and the proposal and contract forms therefor. The submission of a bid shall be conclusive evidence that the bidder has investigated and is satisfied as to the general and local conditions to be encountered, as to the character, quality and scope of work to be performed, the quantities of materials to be furnished and as to the requirements of the proposal, plans, specifications and the contract.

The submission of a bid shall also be conclusive evidence that the bidder is satisfied as to the character, quality and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information was reasonably ascertainable from an inspection of the site and the records of exploratory work done by the Department as shown in the bid documents, as well as from the plans and specifications made a part of the contract.

Where the Department has made investigations of site conditions including subsurface conditions in areas where work is to be performed under the contract, or in other areas, some of which may constitute possible local material sources, bidders or contractors may, upon written request, inspect the records of the Department as to those investigations subject to and upon the conditions hereinafter set forth.

Where there has been prior construction by the Department or other public agencies within the project limits, records of the prior construction that are currently in the possession of the Department and which have been used by, or are known to, the designers and administrators of the project will be made available for inspection by bidders or contractors, upon written request, subject to the conditions hereinafter set forth. The records may include, but are not limited to, record drawings, design calculations, foundation and site studies, project reports and other data assembled in connection with the investigation, design, construction and maintenance of the prior projects.

When a log of test borings or other record of geotechnical data obtained by the Department's investigation of surface and subsurface conditions is included with the contract plans, it is furnished for the bidders' or Contractor's information and its use shall be subject to the conditions and limitations set forth in this Section 2-1.03.

When cross sections are not included with the plans, but are available, bidders or contractors may inspect the cross sections and obtain copies for their use, at their expense.

When cross sections are included with the contract plans, it is expressly understood and agreed that the cross sections do not constitute part of the contract, do not necessarily represent actual site conditions or show location, character, dimensions and details of work to be performed, and are included in the plans only for the convenience of bidders and their use is subject to the conditions and limitations set forth in this Section 2-1.03 EXAMINATION OF PLANS, SPECIFICATIONS, CONTRACT, AND SITE OF WORK.

When contour maps were used in the design of the project, the bidders may inspect those maps, and if available, they may obtain copies for their use.

The availability or use of information described in this Section 2-1.03 is not to be construed in any way as a waiver of the provisions of the first paragraph in this Section 2-1.03 and bidders and contractors are cautioned to make independent investigations and examinations as they deem necessary to be satisfied as to conditions to be encountered in the performance of the work and, with respect to possible local material sources, the quality and quantity of material available from the property and the type and extent of processing that may be required in order to produce material conforming to the requirements of the specifications.

The Department assumes no responsibility for conclusions or interpretations made by a bidder or contractor based on the information or data made available by the Department. The Department does not assume responsibility for the representation made by its officers or agents before the execution of the contract concerning surface or subsurface conditions, unless that representation is expressly stated in the contract.

No conclusions or interpretations made by a bidder or contractor from the information and data made available by the Department will relieve a bidder or contractor from properly fulfilling the terms of the contract.

2-1.05 PROPOSAL FORMS.

The Department will furnish to each Bidder a standard proposal form, which, when filled out and executed shall be submitted as his bid. Bids are not presented on forms so furnished will be disregarded.

The proposal form is included in these Contract Documents. The proposal shall set forth for each item of work, in clearly legible figures and words, an item price and a total for the item in the respective spaces provided, and shall be signed by the Bidder, who shall fill out all blanks in the proposal form as required therein.

All items shown on schedule of bid items shall be properly filled in and shall include all costs of labor, materials, equipment, State, Federal, or other taxes applicable to the transaction. The completed forms shall be without inter-lineations, erasures or alterations of any nature. If the proposal is made by an individual, his or her name and post office address must be shown; if made by a firm or partnership, the name and post office address of each member of the firm or partnership must be shown; or if made by a corporation, the proposal shall show the name of the State under the laws of which the corporation was chartered and the names, titles, and business addresses of the president, secretary, and treasurer of said corporation. If the proposal is signed by an agent, a "Power of Attorney" must be filed with the proposal. The proposal shall be submitted as directed in Section I "Notice to Contractors" and identifying the project to which the proposal relates and the time and date of the bid opening therefore. Proposals which are not properly marked may be disregarded. Proposal forms are not transferable.

2-1.06D PROPOSAL GUARANTY.

All bids shall be presented under sealed cover and accompanied by one (1) of the following forms of Bidder's security.

- 1. Cash, a cashier's check, a certified check, or a Bidder's bond executed by an admitted surety insurer, made payable to the City.
- 2. The security shall be in an amount equal to at least ten percent (10%) of the amount bid. A bid will not be considered unless one (1) of the forms of Bidder's security is enclosed with it.
- 3. A Bidder's bond will not be accepted unless it conforms to a bond form approved by the City Attorney. Upon request "Bidder's Bond" forms may be obtained from the Department.

2-1.06G PREVIOUS DISQUALIFICATION, REMOVAL OR OTHER PREVENTION OF BIDDING.

A bid may be rejected on the basis of a Bidder, any officer of such Bidder, or any employee of such Bidder who has a proprietary interest in such Bidder, having been disqualified, removed, or otherwise prevented from bidding on, or completing a Federal, State, or local project because of a violation of law or a safety regulation.

2-1.11 COMPETENCY OF BIDDERS.

If two (2) or more prospective Bidders desire to bid jointly as a joint venture on a single project, they must file an affidavit of joint venture with the Bid on a form approved by the City Attorney, and such affidavit of joint venture will be valid only for the specific project for which it is filed. If such affidavit of joint venture is not filed as aforesaid and approved by the City Attorney prior to the time for awarding bids on the specific project for which it is submitted, a joint bid submitted by said Bidders will be disregarded. No bid will be accepted from or a Contract awarded to any Bidder to whom a proposal form has not been issued pursuant to Section 2-1.05 PROPOSAL FORMS of these Specifications.

2-1.12 GUARANTY AND WARRANTY.

The Contractor shall guarantee and warrant all materials supplied as being fit for the purpose intended. The Contractor shall guarantee and warrant all work performed as having been accomplished in a proper and workman-like manner. The guarantee and warranty required by this section shall continue for a period of one (1) year after Acceptance of the Work.

Should any failure of the work occur within a period of one (1) year, after Acceptance of the project by the City Council due to faulty materials, poor workmanship, or defective equipment, the Contractor shall promptly make the needed repairs at his or her expense.

The City is hereby authorized to make such repairs if the Contractor fails to make or undertake with due diligence the aforesaid repairs within ten (10) working days after being given written notice of such failure; provided, however, that in case of emergency where in the opinion of the Engineer of Work, providing a reasonable attempt has been made to notify the Contractor, delay would cause serious loss or damages, or a serious hazard to the public, the repairs may be made or lights, signs, and barricades erected without prior notice to the Contractor, and the Contractor shall pay the entire cost thereof. At the completion of the work the faithful performance bond may be reduced at the discretion of the City Council to not less than ten percent (10%) of the Contract price to cover said guarantee. Additional guarantees or warranties may be required by the Special Provisions.

2-1.40 WITHDRAWAL OF PROPOSALS.

Any bid may be withdrawn at any time prior to the time fixed in the public notice for the deadline submission of bids only by written request for the withdrawal of the bid filed with the Director. The request shall be executed by the bidder or his or her duly authorized representative. The withdrawal of a bid does not prejudice the right of the bidder to file a new bid. Whether or not bids are opened exactly at the time fixed in the public notice for opening bids, a bid will not be received after the deadline for submission of bids nor may any bid be withdrawn after the time fixed in the public notice for deadline for submission of bids. Immediately following the deadline for submission of bids all bids shall become the property of the City of Goleta and City is under no obligation to return.

2-1.47 BID RELIEF.

If the Bidder claims a mistake was made in his or her bid, the Bidder shall give the Department written notice within five (5) calendar days after the opening of the bids of the alleged mistake, specifying in the notice in detail how the mistake occurred. No relief from a claimed mistaken bid shall be granted unless such mistake clearly appears on the face of the bid submitted to the City. Claimed mistakes on backup worksheets, spreadsheets, computerized bidding programs, or any other similar calculative bidding mistake which is not apparent on the face of the bid shall not under any circumstance be considered as a basis for relief. The burden of proving the occurrence of a mistake entitling a bidder to relief from its bid rests entirely on the bidder. Relief from bids shall be in the City's sole discretion.

SECTION 3. CONTRACT AWARD AND EXECUTION

3-1.04 CONTRACT AWARD.

The right is reserved to reject any and all proposals. The award of the Contract, if it be awarded, will be to the lowest responsible Bidder whose proposal complies with all the requirements prescribed. Such award, if made, will be made within ninety (90) working days after the public opening of the proposals. If the lowest responsible Bidder refuses or fails to execute the Contract, the Goleta City Council may award the Contract to the second lowest responsible Bidder. Such award, if made, will be made within one-hundred and twenty (120) working days after the public opening of proposals. If the second lowest responsible Bidder refuses or fails to execute the Contract to execute the Contract, the Contract, the Contract, the City may award the Contract to the third lowest responsible Bidder. Such award, if made, will be made within one hundred and twenty (120) working days after public opening of proposals. If the second lowest responsible Bidder refuses or fails to execute the Contract, the City may award the Contract to the third lowest responsible Bidder. Such award, if made, will be made within one hundred and twenty (120) working days after public opening of the proposals. The periods of time specified above within which the award of Contract may be made shall be subject to extension for such further period as may be agreed upon in writing between the Goleta City Council and the Bidder concerned.

All bids will be compared on the basis of the Director's estimate of the quantities of work to be done.

3-1.05 CONTRACT BONDS.

The successful Bidder, simultaneously with the execution of the Contract, will be required to furnish a payment bond in an amount equal to one hundred percent (100%) of the Contract price, and a faithful performance bond in an amount equal to one hundred percent (100%) of the Contract price; said bonds shall be in a form approved by the City Attorney and shall be secured by a surety company satisfactory to the City Attorney. If the Contract price increases by the issuance of Change Orders, the Contractor shall within ten (10) working days provide a commensurate increase in the penal amounts of the bonds required.

<u>Furthermore</u>, the successful bidder shall furnish a certificate from the County Clerk as required by California Civil Code of Procedure Section 995.660(a)(3).

3-1.18 CONTRACT EXECUTION.

The Contract, in form and contents satisfactory to the City, shall be executed by the successful Bidder and returned, together with the Contract bonds and certificates of insurance within ten (10) calendar days, after written notice that the Contract has been awarded. No proposal shall be considered binding upon the City until the execution of the Contract by the City.

3-1.20 FAILURE TO EXECUTE CONTRACT.

Failure of the lowest responsible Bidder, the second lowest responsible Bidder, or the third lowest responsible Bidder to execute the Contract and file acceptable bonds and insurance as provided herein within fifteen (15) working days after such Bidder has received notice that the Contract has been awarded to him or her shall be just cause for the annulment of the award and the forfeiture of the proposal guarantee to the City as Liquidated Damages. The successful Bidder may file with the Goleta City Council a written notice, signed by the Bidder or his or her authorized representative, specifying that the Bidder will refuse to execute the Contract if presented to him or her. The filing of such notice shall have the same force and effect as the failure of the Bidder to execute the Contract and furnish acceptable bonds and insurance within the time prescribed by Section 3-1.18 CONTRACT EXECUTION of these Specifications.

SECTION 4. SCOPE OF WORK

Not used.

SECTION 5. CONTROL OF WORK

5-1 MEANS, METHODS AND APPLIANCES.

The means, methods, and appliances adopted by the Contractor shall be planned and executed to produce the highest grade quality of work and will enable the Contractor to complete the Work in the time agreed upon. The City and Engineer shall not supervise, direct, or have control over, or be responsible for, Contractor's means, methods, and appliances of construction or for the safety precautions and programs incident thereto, or for any failure of Contractor to comply with laws and regulations applicable to the furnishing or performance of Work.

5-1.04 COORDINATION OF PLANS AND SPECIFICATIONS.

These City of Goleta Construction Specifications, the State Standard Specifications, the Standard Plans, the Standard Drawings, project Plans, project Special Provisions (and any addenda), the Agreement, Contract Change Orders, and all supplementary documents are all essential parts of the Contract between Contractor and the City. A requirement occurring in one (1) is as binding as though occurring in all. They are intended to be complementary, and to describe and provide for a complete work.

Should it appear that the work to be done or any of the matters relative thereto are not sufficiently detailed or explained in these specifications, the Special Provisions, or the Plans, the Contractor shall apply in writing to the Director for such further explanations as may be necessary and shall conform to them as part of the Contract. In the event of any doubt or question arising respecting the true meaning of these specifications, the special provisions or the Plans, reference shall be made to the Director, whose decision thereon shall be final.

In the event of any discrepancy between any drawing and the figures written thereon, the figures shall be taken as correct. Detail drawings shall prevail over general drawings.

5-2 CONTRACTOR'S RESPONSIBILITY FOR WORK.

Unless specified otherwise in the Contract Documents, until the formal acceptance of the Work by the City, the Contractor shall have the charge and care and shall bear the risk of damage to any part thereof by the action of the elements or from any other cause, whether arising from the execution or non-execution of the Work.

The Contractor shall rebuild, repair, restore, and make good all damages to any portion of the Work occasioned by any of the above causes before final acceptance and shall bear the expense, except such damages occasioned by the acts of the Federal government or acts of war.

In case of suspension of work from any cause whatsoever, the Contractor shall be responsible for the Work as previously specified and shall also be responsible for all materials delivered to the Work. Where necessary to protect the Work from damage, the Contractor shall, at its own expense, provide suitable drainage of the worksite and erect such temporary structures as necessary to protect the Work from damage during any period of suspension of work.

The Contractor shall provide 24-hour emergency service for all maintenance and operations of the Work specified and shall supply the City with the name and phone number of the responsible person. Contractor will respond to requests for emergency service for the Work promptly upon notification. If the Contractor fails to provide this service after notice from City, City may perform such emergency service and the cost thereof shall be deducted from the next Progress Pay Estimate due the Contractor.

SECTION 6. CONTROL OF MATERIAL

6-2.04 MATERIAL SITES.

Local material sites used by the Contractor shall be graded so that, at the time of final inspection of the Contract, they will drain and will blend in with the surrounding terrain.

SECTION 7. LEGAL RELATIONS AND RESPONSIBILITY

7-1.01 PREVAILING WAGE.

Pursuant to the provisions of California Labor Code Section 1773, the City has identified the source, stated below, of the general prevailing rate of wages applicable to the work to be done, for straight time, overtime, Saturday, Sunday and holiday work. The holiday wage rate listed shall be applicable to all holidays recognized in the collective bargaining agreement of the particular craft, classification or type of workmen concerned. The wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: <u>http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm</u>, and are a part of the Contract. "Pursuant to California Labor Code Section 1773.2, general prevailing wage rates shall be posted by the Contractor at a prominent place at the site of the work.

7-1.02 SOUND CONTROL REQUIREMENTS.

The Contractor shall additionally conform to the provisions of Goleta Municipal Code 12.02.480 Noise, Dust and Debris where they are more restrictive than these specifications.

7-1.03 ASBESTOS.

The Contractor shall comply with all rules, regulations, statutes and ordinances regarding asbestos removal and disposal, including but not limited to, 42 U.S.C. Sections 7401, 7412 and 7601 and 40 C.F.R. Part 61, Subpart M. If the Contractor discovers that a building to be demolished or renovated contains asbestos containing material, the Contractor shall immediately cease work and notify the City.

7-1.04 HIGHWAY CONSTRUCTION EQUIPMENT.

Pursuant to the authority contained in Vehicle Code Section 591, the Department has determined that, within such areas as are within the limits of the project and are open to the public traffic, the Contractor shall comply with all the requirements set forth in Vehicle Code Divisions 11, 12, 13, 14, and 15. Attention is directed to the statement in Section 591 that this section shall not relieve the Contractor or any person from the duty of exercising due care. The Contractor shall take all necessary precautions for safe operation of equipment and the protection of the public from injury and damage from such equipment.

7-1.05 CITY OF GOLETA ENCROACHMENT PERMITS.

The Contractor need not obtain a separate encroachment permit from the City prior to construction within street rights-of-way or other City rights-of-way. Execution of the Contract by the City shall be deemed an encroachment permit for work required by the

Contract within rights-of-way. All work shall conform to the rules and regulations of encroachment permits and shall be subject to the inspection and approval of the Director.

7-1.06 CITY OF GOLETA BUSINESS LICENSE.

The Contractor shall obtain a business license from the City prior to commencing work.

7-1.07 PERMIT FOR TRENCHING OR EXCAVATION.

For trenches or excavation five (5) feet or deeper, the Contractor shall obtain from the Division of Industrial Safety, a permit authorizing such construction.

7-1.08 OTHER PERMITS.

The Contractor in coordination with the Director shall procure any necessary permits which the City is not specifically mentioned as obtaining.

7-1.09 PROJECT APPEARANCE.

The Contractor shall maintain a neat appearance to the work. In any area visible to the public, the following shall apply:

When practicable, broken concrete and debris developed during clearing and grubbing shall be disposed of concurrently with its removal. If stockpiling is necessary, the material shall be removed or disposed of weekly. The Contractor shall furnish trash bins for all debris from structure construction. All debris shall be placed in trash bins daily. Forms or falsework that are to be reused shall be stacked neatly concurrently with their removal. Forms and falsework that are not to be reused shall be disposed of concurrently with their removal.

Full compensation for conforming to the provisions in this section, not otherwise provided for, shall be considered as included in price paid for the various Contract items of work involved, and no additional compensation will be allowed therefore.

7-1.10 SAFETY.

It is the intent of the parties that the City is not an exposing, creating, controlling, or correcting employer under California Labor Code section 6400. In accordance with generally accepted construction practices and State law, the Contractor shall have the authority and be solely and completely responsible for conditions on the job site, including safety of all persons and property during performance of the Work. Moreover, the Contractor shall be the controlling employer and has the authority and responsibility to enforce worksite safety. The Contractor shall be responsible for conducting daily safety inspections and assuring all hazards and violations are abated. The Contractor is responsible for assuring that all subcontractors adhere to the minimum CAL/OSHA safety requirements and that each subcontractor has an effective CAL/OSHA IIP (Illness and Injury Protection Program) in place that specifically addresses all potential exposures, such as, but not limited to, fall protection, confined space, and trenching/shoring. These requirements shall apply continuously and not be limited to normal working hours. The Contractor shall be responsible for any delay costs or damages in the event the progress of Work is slowed or stopped due to a safety violation.

The services of the Director in conducting construction review of the Contractor's performance is not intended to include review of the adequacy of the Contractor's Work methods, equipment, bracing or scaffolding, or safety measures, in, on, or near the

construction site. If a City employee observes a safety violation, the City employee will report the violation to the Contractor who is then responsible for assuring the violation is abated.

The Contractor is hereby informed that Work on this project could be hazardous. The Contractor shall carefully instruct all personnel working in potentially hazardous Work areas as to potential dangers and shall provide such necessary safety equipment and instructions as are necessary to prevent injury to personnel and damage to property. Special care shall be exercised relative to Work underground.

All Work and materials shall be in strict accordance with all applicable State, City, County, and Federal Rules, Regulations, and Codes, and attention is drawn to the requirements of CAL/OSHA. The Contractor shall be solely responsible for compliance with all City, County and State blasting requirements and for any damages caused by his or her operations.

The Contractor shall conduct its work so as to ensure the least possible obstruction to traffic and inconvenience to the general public and the residents in the vicinity of the Work and to ensure the protection of persons and property. No road or street shall be closed to the public except with the permission of the Director and the written approval by the proper governmental authority. Fire hydrants on or adjacent to the Work shall be accessible to firefighting equipment. Temporary provisions shall be made by the Contractor to ensure the use of sidewalks, private and public driveways and proper functioning of gutters, sewer inlets, drainage ditches and culverts, irrigation ditches and natural water courses.

In accordance with State Labor Code Section 6705, the Contractor shall submit to the City specific plans to show details of provisions for worker protection from caving ground. This in no way relieves the Contractor from the requirement of maintaining safety in all operations performed by the Contractor or the Contractor's subcontractors. The detailed Plan showing design of shoring, bracing, sloping or other provisions shall be prepared and stamped by a registered civil or structural engineer in the State of California as required. Acceptance by the City or its designated agent only constitutes acknowledgment of the submission and does not constitute review or approval of the designs, design assumptions or criteria, completeness of submissions, applicability to areas of intended use, nor implementation of the Plans, which are solely the responsibility of the Contractor and his or her registered engineer.

Notwithstanding any classifications relative to the Tunnel Safety Orders, Work within confined spaces on this project is subject to the definitions and applicable provisions of California Code of Regulations Section 8400 et seq., Title 8.

The Contractor shall so perform its Work as not to expose personnel to, or to discharge into the atmosphere from any source whatever, smoke, dust, asbestos, toxic chemicals or other air contaminants in violation of the laws, rules, and regulations of the governmental entities having jurisdiction. Contractors or subcontractors removing one hundred (100) feet or more square feet of asbestos must be "Certified" in accordance with State law. All Work involving exposure to asbestos and all other hazardous materials shall be performed with protection of personnel in compliance with all applicable regulations and safety requirements.

Nothing in these General Conditions is to be construed to permit Work not conforming to governing codes. When Contract Documents differ from governing codes, the Contractor shall furnish and install the higher standards called for without extra charge. All equipment furnished shall be grounded and provided with guards and protection as required by safety codes. Where vapor tight or explosion proof electrical installation is required by code, this shall be provided. In accordance with the provisions of Labor Code Section 6707, the Contractor shall provide adequate sheeting, shoring and bracing

7-1.10A CONFINED SPACES.

Confined spaces requires compliance with CAL/OSHA and Federal OSHA requirements. Confined spaces for the purposes of this Section shall be as defined by the Division of Industrial Safety. Work within confined spaces of this project is subject to the definitions and applicable provisions of Section 5156 *et seq.*, Title 8, Division 1, Chapter 4, Subchapter 7, Group 16, Article 108 of California Code of Regulations, and Title 29 Part 1926 of the Code of Federal Regulations.

In addition the City classifies the following existing facilities as confined space: the interior of pipelines, vaults, manholes, reservoirs and any other such structure or space which is similarly surrounded by confining surfaces as to permit the accumulation of dangerous gases or vapors. The confined spaces are "permit" confined spaces as defined by OSHA and CAL/OSHA and therefore entry is allowed only through compliance with a confined space entry permit program by the Contractor that meets the requirements of 8 C.C.R. Section 5157. While the above mentioned locations have been identified as permit confined spaces, other permit confined spaces may exist. It shall be the responsibility of the Contractor to identify and classify these confined spaces.

It is anticipated that the Contractor may encounter hazardous conditions within these permit confined spaces which include, but are not limited to the following:

- a. Exposure to hydrogen sulfide, methane, carbon dioxide and other gases and vapors commonly found in municipal sewers which could have or has the potential of having Immediate Danger to Life or Health Conditions (IDLH).
- b. Exposure to atmosphere containing insufficient oxygen to support human life.
- c. Exposure to combustible, flammable and/or explosive atmosphere.
- d. Exposure to sewage which may contain bacteriological, chemical and other constituents harmful to humans.
- e. Work in conditions where engulfment or entrapment may occur.
- f. Work in environments which may be slippery and/or have uneven work surfaces.
- g. Work in structures where workers may trip, slip and/or fall several feet.

h. Exposure to an oxygen enriched environment.

7-1.11 RESPONSIBILITY FOR DAMAGE.

The City of Goleta and its officers, agents, employees, and volunteers, including but not limited to the Director, shall not be answerable or accountable in any manner: for any loss or damage that may happen to the work or any part thereof; for any loss or damage to any of the materials or any things used or employed in performing the work; for injury to or death of any person, either workers or the public; or for damage to property from any cause which might have been prevented by the Contractor, his or her workers, or anyone employed by the Contractor or his or her subcontractors.

The Contractor shall be responsible for any liability imposed by law and for injuries to, or death of, any person including, but not limited to, workers and the public, or damage to property resulting from defects or obstructions, or from any cause whatsoever during the progress of the work or at any time before its completion and final Acceptance.

To the fullest extent allowed by law, the Contractor shall defend (through counsel acceptable to the City), indemnify, and save harmless the City of Goleta and its officers, agents, employees, and volunteers from all claims, suits, or actions of every name, kind, and description, brought forth, or on account of, injuries to or death of any person including, but not limited to, workers and the public, or damage to property resulting from the performance of the Contract, except as otherwise provided by statute.

The duty of the Contractor to defend, indemnify, and save harmless includes, but is not limited to, the duties to defend as set forth in Civil Code Section 2778.

The Contractor waives any and all rights to any type of express or implied indemnity against the City, its officers, agents, employees, or volunteers.

It is the intent of the parties that the Contractor will defend, indemnify, and hold harmless the City of Goleta, its officers, agents, employees, and volunteers from any and all claims, suits, or actions as set forth above regardless of existence or degree of fault or negligence, whether active or passive, primary, or secondary, on the part of the City, the Contractor, the subcontractor or employee of any of these; except duty does not apply where the injury or damage is due to the sole or active negligence of the City.

The Contractor's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Contract for the full period of time allowed by law. The defense and indemnity obligations of this Contract are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Contract. The parties intend that the defense and indemnity obligations in this Contract shall be broadly construed.

In addition to any remedy authorized by law, so much of the money due the Contractor under and by virtue of the Contract as shall be considered necessary by the City may be retained by the City until disposition has been made of such suits or claims for damages. The retention of money due the Contractor shall be subject to the following:

- A. The City will give the Contractor thirty (30) working days' notice of its intention to retain funds from any partial payment which may become due to the Contractor prior to Acceptance of the Contract. Retention of funds from any payment made after Acceptance of the Contract may be made without such prior notice to the Contractor.
- B. No retention of additional amounts out of partial payments will be made if the amount to be retained does not exceed the amount being withheld from partial payments pursuant to Section 9-1.06 PARTIAL PAYMENTS of these Specifications.
- C. If the City had retained funds and it is subsequently determined that the City is not entitled to be indemnified and saved harmless by the Contractor in connection with the matter for which such retention was made, the City shall be liable for interest on the amount retained at the legal rate of interest for the period of such retention.

7-1.12 INSURANCE COVERAGE.

- A. Evidence of Maintenance Required. The Contractor shall, at all times, maintain in full force and effect at a minimum the insurance required by this section; and the Contractor shall not allow any subcontractor to commence work until similar insurance required of the subcontractor has been obtained and filed. An original Certificate of Insurance, and copies of all required endorsements, all in a form approved by the Director, evidencing all required coverage or policies shall be filed after the award of the bid and prior to approval of the Contract by the City Council. Contractor shall provide ten (10) working days prior written notice to the City of any reduction of coverage limits or cancellation of the coverage or policies shall be given to the City of Goleta as Certificate holder.
- B. Qualifying Insurers. With the exception of the State Compensation Insurance Fund, all required insurance policies shall be issued by companies licensed to do business in the State of California and who hold a current policy holders alphabetic and financial size category rating of not less than AVII according to the most recent issue of Best' s Insurance Reports.
- C. Insurance Required. Commercial General Liability, automobile liability, and workers' compensation insurance shall be maintained as follows in the insurance requirements as follows:

1.	Commercial General	\$2,000,000 each occurrence
	Liability for Minor	\$4,000,000 aggregate
	Construction Projects	\$5,000,000.00 Umbrella or excess liability
	(Projects under	Personal Injury: \$2,000,000 each occurrence
	\$1,000,000)	\$4,000,000 aggregate
		\$5,000,000.00 Umbrella or excess liability

Commercial General	\$5,000,000 each occurrence
Liability for Major	\$10,000,000 aggregate
Construction Projects	\$25,000,000.00 Umbrella or excess liability
	Personal Injury:
(Projects over	\$5,000,000 each occurrence
\$1,000,000)	\$10,000,000 aggregate
	\$25,000,000.00 Umbrella or excess liability

The Commercial General Liability policy shall include coverage or endorsements for:

- a. Completed operations.
- b. Losses related to independent contractors, products and equipment.
- c. Explosion, collapse and underground hazards.

The Commercial General Liability insurance shall include the following, copies of which shall be provided:

- a. Inclusion of the City of Goleta, and its officers, agents, employees, and volunteers, as additional insureds (except for workers" compensation) as respects services or operations under the Contract. The additional insured endorsement for the general liability policy shall be at least as broad as the Insurance Services Office ("ISO") CG 20 38 04 13 or an equivalent, blanket endorsement or section of the policy. Endorsements must include coverage for on-going and completed operations. Endorsements shall cover the City of Goleta, its officers, agents, employees, and volunteers.
- b. Cross liability and severability of interest clauses providing that the insurance applies separately to each insured except with respect to the limits of liability.
- c. Stipulation that the insurance is primary and noncontributory, as evidenced by a separate endorsement (CG 20 01 04 13 or an equivalent) or section of the policy, and that neither the City nor its insurers will be called upon to contribute to a loss.
- d. Such insurance shall specifically cover the contractual liability of the CONTRACTOR.
- e. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be: (1) the minimum coverage and limits specified in this Agreement; or (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater.
- f. Waiver of subrogation endorsement.
- g. The CONTRACTOR shall furnish a certificate for the period covered.

SPECIAL NOTICE - CLAIMS MADE COVERAGE:

Liability insurance coverage may not be written on a "claims made" basis. The Certificate of Insurance must clearly provide that the coverage is on an "occurrence" basis.

<u>Comprehensive Automobile Liability</u> for bodily injury (including death) and property damage which provides total limits of not less than One Million Dollars (\$1,000,000) combined single limits per accident, applicable to all owned, nonowned, and hired vehicles.

<u>Statutory Workers' Compensation and Employer's Liability Insurance,</u> including a waiver of subrogation endorsement and a Broad Form "All-States" Endorsement for all employees engaged in services or operations under the Contract.

The employer's liability insurance shall provide limits of not less than One Million Dollars (\$1,000,000) per occurrence. Both the workers' compensation and employer's liability policies shall contain the Insurer's waiver of subrogation in favor of the City, its officers, agents, employees, and volunteers.

7-1.12.2 BUILDER'S RISK/COURSE OF CONSTRUCTION INSURANCE.

The Contractor shall be responsible for all loss, damage or destruction whatsoever to the work called for by this Contract until the approval of a Notice of Completion.

The Contractor shall secure "All Risk" type of builder's Risk Insurance of the type covering one hundred percent (100%) of the value of the work performed under this Contract (the value is presumed to be the Contract amount unless otherwise stated in Supplemental Conditions) and all materials, equipment, or other items to be incorporated therein while the same are located at the construction site, a bonded warehouse, or its place of manufacture. At any time, the policy shall cover the value of the work completed. The policy shall cover hazards including the losses due to fire, explosion, hail, rain, lightning, flood (separate insurance as needed), vandalism, malicious mischief, wind, collapse, aircraft, and smoke. The policies providing such insurance shall name the City as a loss payee as its respective interests may appear, and certified copies of such policies shall be filed with the City. The maximum deductible allowable under the Builder's All Risk policy shall be five percent (5%) of the Contract amount.

Builder's Risk Insurance is not required for coverage of losses in excess of five percent (5%) of the Contract amount for damages resulting from earthquake in excess of a magnitude of 3.5 on the Richter scale, or tidal waves. Coverage in the amount of five percent (5%) of the Contract amount for such losses is required.

7-1.12.3 OTHER INSURANCE PROVISIONS.

A. The requirements of the State Standard Specifications as to types and limits of insurance coverage to be maintained by the Contractor, and any approval of insurance by the City, are not intended to, and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by the Contractor pursuant to the Contract, including, but not limited to, the provisions concerning indemnification, nor preclude the City from taking any other action available to it under any other provision of the Contract or law.

- B. The City acknowledges that some insurance requirements contained in these provisions may be fulfilled by self-insurance on the part of the Contractor. However, this shall not in any way limit liabilities assumed by Contractor under the Contract. Any self-insurance must be approved in writing by the City, in its sole discretion and shall not reduce the limits of liability. Any deductibles or self-insured retentions ("SIR") must be declared on the certificate of insurance and approved by CITY in writing. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or CITY. CITY reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.
- C. The Contractor agrees to include in its contracts with all subcontractors the same requirements and provisions of this Contract, including the indemnity and insurance requirements, to the extent they apply to the scope of the subcontractor's work. Furthermore, the Contractor shall require its subcontractors to agree to be bound to the Contractor and the City in the same manner and to the same extent as the Contractor is bound to the City under this Contract. Additionally, the Contractor shall obligate its subcontractors to comply with these same provisions with respect to any tertiary subcontractor, regardless of tier. A copy of the City's indemnity and insurance provisions will be furnished to the subcontractor or tertiary subcontractor upon request. Alternatively, the Contractor may insure subcontractor(s) under its own policy.
- D. The City, its officers, agents, employees, and volunteers are to be covered as insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of the contractor; and with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts or equipment furnished in connection with such work or operations. Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under California Insurance Code Section 11580.04.
- E. The limits of insurance required in this Contract may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of the City (if agreed to in a written contract) before the City's own insurance shall be called upon to protect it as a named insured.
- F. THE CITY RESERVES THE RIGHT TO WITHHOLD ANY PROGRESS PAYMENTS TO THE CONTRACTOR IN THE EVENT OF NONCOMPLIANCE WITH ANY INSURANCE REQUIREMENTS.

Additional Insurance Requirements:

Contractor's pollution liability insurance. Coverage shall provide for liability arising out of sudden, accidental, and gradual pollution, and remediation. The policy limit shall be no less than \$1,000,000 per claim and in the aggregate. All activities contemplated in this agreement shall be specifically scheduled on the policy as "covered operations." The policy shall provide coverage for remediation of the site in the event of an environmental contamination event arising out of the materials, supplies, products, work, operations, or workmanship.

Transportation pollution liability insurance. Coverage shall be in an amount not less than \$5,000,000 combined single limit per accident and shall include Pollution Liability (CA9948) and MCS-90 Endorsements. The policy shall provide coverage for transportation of pollutants/contaminants to and from the job site and the hauling of waste from the project site to the final disposal location, including non-owned disposal sites.

7-1.14 ACCEPTANCE OF CONTRACT.

When the Director has made the final inspection and determines that the Contract work has been completed in all respects in accordance with the Plans and specifications, the Director will recommend that the Goleta City Council formally accept the Contract, and immediately upon and after such Acceptance by the City, the Contractor will be responsible for the work done for a period of one (1) year.

7-1.23 NONDISCRIMINATION.

During the performance of this Contract, Contractor and its subcontractors shall not unlawfully discriminate against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical handicap, medical condition, marital status, age or sex. Contractor and subcontractors shall insure that the evaluation and treatment of their employees and applicants for employment are free of such discrimination. Contractor and subcontractors shall comply with the provisions of the Fair Employment and Housing Act (Government Code §12900, et seq.) and the applicable regulations promulgated thereunder (California Administrative Code of Regulations, Title 2, §7285.0 et seq.) and other applicable State and Federal regulations pertaining to nondiscrimination and affirmative action which are incorporated into this Agreement by reference and made a part hereof as if set forth in full. Contractor and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement.

Contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the agreement."

Nondiscrimination

Under 2 CA Code of Regs § 11105:

1. During the performance of this contract, the recipient, contractor, and its subcontractors shall not deny the contract's benefits to any person on the basis of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military and veteran status, nor shall they discriminate unlawfully against any employee or applicant for employment

because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military and veteran status. Contractor shall insure that the evaluation and treatment of employees and applicants for employment are free of such discrimination.

- Contractor shall comply with the provisions of the Fair Employment and Housing Act (Gov. Code, § 12900 et seq.), the regulations promulgated thereunder (Cal. Code Regs., tit. 2, § 11000 et seq.), the provisions of Article 9.5, Chapter 1, Part 1, Division 3, Title 2 of the Government Code (Gov. Code, §§ 11135-11139.5), and the regulations or standards adopted by the awarding state agency to implement such article.
- 3. Contractor or recipient shall permit access by representatives of the Department of Fair Employment and Housing and the awarding state agency upon reasonable notice at any time during the normal business hours, but in no case less than 24 hours' notice, to such of its books, records, accounts, and all other sources of information and its facilities as said Department or Agency shall require to ascertain compliance with this clause.
- 4. Recipient, contractor and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement.
- 5. The contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the contract.

Under 2 CA Code of Regs § 11122:

STANDARD CALIFORNIA NONDISCRIMINATION CONSTRUCTION CONTRACT SPECIFICATIONS (GOV. CODE SECTION 12990)

These specifications are applicable to all state contractors and subcontractors having a construction contract or subcontract of \$5,000 or more.

- 1. As used in the specifications:
 - a. "Act" means the Fair Employment and Housing Act.
 - b. "Administrator" means Administrator, Office of Compliance Programs, California Department of Fair Employment and Housing, or any person to whom the Administrator delegates authority;
- 2. Whenever the contractor or any subcontractor subcontracts a portion of the work, it shall include in each subcontract of \$5,000 or more the nondiscrimination clause in this contract directly or through incorporation by reference.
- 3. The contractor shall implement the specific nondiscrimination standards provided in paragraphs 6(a) through (e) of these specifications.
- 4. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the contractor has a collective bargaining agreement, to refer members of any group protected by the Act shall excuse the contractor's obligations under these specifications, Government Code section 12990, or the regulations promulgated pursuant thereto.5. In order for the nonworking training hours of apprentices and trainees to be counted, such apprentices and trainees must be employed by the contractor during the training period, and the contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor or the California Department of Industrial Relations.

- 5. In order for the nonworking training hours of apprentices and trainees to be counted, such apprentices and trainees must be employed by the contractor during the training period, and the contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor or the California Department of Industrial Relations.
- 6. The contractor shall take specific actions to implement its nondiscrimination program. The evaluation of the contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The contractor must be able to demonstrate fully its efforts under steps a. through e. below:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and at all facilities at which the contractor's employees are assigned to work. The contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the contractor's obligations to maintain such a working environment.
 - b. Provide written notification within seven (7) working days to the director of the DFEH when the referral process of the union or unions with which the contractor has a collective bargaining agreement has impeded the contractor's efforts to meet its obligations.
 - c. Disseminate the contractor's equal employment opportunity policy by providing notice of the policy to unions and training, recruitment and outreach programs and requesting their cooperation in assisting the contractor to meet its obligations; and by posting the company policy on bulletin boards accessible to all employees at each location where construction work is performed.
 - d. Ensure all personnel making management and employment decisions regarding hiring, assignment, layoff, termination, conditions of work, training, rates of pay or other employment decisions, including all supervisory personnel, superintendents, general foremen, on-site foremen, etc., are aware of the contractor's equal employment opportunity policy and obligations, and discharge their responsibilities accordingly.
 - e. Ensure that seniority practices, job classifications, work assignments, and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the equal employment opportunity policy and the contractor's obligations under these specifications are being carried out.
- 7. Contractors are encouraged to participate in voluntary associations that assist in fulfilling their equal employment opportunity obligations. The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on equal employment opportunity in the industry, ensures that the concrete benefits of the program are reflected in the contractor's workforce participation, and can provide access to documentation that demonstrates the effectiveness of actions taken on behalf of the contractor. The obligation to comply, however, is the contractor's.
- 8. The contractor is required to provide equal employment opportunity for all persons. Consequently, the contractor may be in violation of the Fair Employment and Housing

Act (Government Code section 12990 et seq.) if a particular group is employed in a substantially disparate manner.

- 9. The contractor shall not use the nondiscrimination standards to discriminate against any person because race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military and veteran status.
- 10. The contractor shall not enter into any subcontract with any person or firm decertified from state contracts pursuant to Government Code section 12990.
- 11. The contractor shall carry out such sanctions and penalties for violation of these specifications and the nondiscrimination clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Government Code section 12990 and its implementing regulations by the awarding agency. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Government Code section 12990.
- 12. The contractor shall designate a responsible official to monitor all employment related activity to ensure that the company equal employment opportunity policy is being carried out, to submit reports relating to the provisions hereof as may be required by OCP and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, status, (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in any easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

7-1.24 CONTRACTOR REGISTRATION.

Registration" is added as follows: No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this Contract, Contractor and its subcontractors shall have a continuing legal obligation to maintain current registration with the Department of Industrial Relations. Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations."

SECTION 8. PROSECUTION AND PROGRESS

8-1.03 BEGINNING OF WORK.

The Contractor shall begin work within fifteen (15) working days from the date of a "Notice to Proceed" letter, and the Contractor shall thereafter diligently prosecute the work to completion.

The Contractor shall notify the Director, in writing, of his or her intent to commence work at least seventy-two (72) hours before work is begun. The notice shall specify the date on which the Contractor intends to begin work. If a project has more than one (1) location of work, a separate notice shall be given for each location.

Should the Contractor begin work in advance of issuance a "Notice to Proceed," any work performed in advance of such issuance shall be considered to have been done at Contractor's own risk and as a volunteer.

8-1.15 WASTE REDUCTION.

All procurements for Compost, Mulch, and Paper Products made on behalf of the City must comply with Goleta Municipal Code Chapter 8.10.900 "Procurement Requirements for City Departments, Direct Service Providers, and Vendors"

- a. All paper products and content printing and writing paper shall consist of at least thirty percent (30%) by fiber weight post-consumer fiber; and
- All compost and mulch products must be purchased from a processing facility that does not solely utilize chip and grind methods to produce either product; and
- c. All proof of purchase records including weight tickets, receipts, invoices shall be provided to city project manager in a timely manner; and
- d. Contractor shall work with city project manager to submit all required procurement records to the Environmental Services Division.

All covered projects must comply with Goleta Municipal Code Chapter 8.10 Article IV "Mandatory Recycling of Construction and Demolition Waste" including but not limited to:

- a. Complete and submit a Certification of Implementation and submit to Director—five (5) working days before construction begins.
- b. Receive an approved Certificate of Implementation from the Environmental Services Division
- c. Manage and track all project materials as well as waste generated to achieve greater than or equal to sixty-five percent (65%) diversion through waste reduction, reuse, and recycling; and
- d. Collect all weight tickets and other records associated with project materials as well as waste generated and provide records to designated city project manager in a timely manner; and
- e. At least five (5) working days prior to final inspection/project closeout, complete and submit a Post-Construction Waste Reduction & Recycling Summary Report (WRRS) to Environmental Services Manager (or designee) including the WRRS form, weight tickets, and other relevant records.

SECTION 9. MEASUREMENT AND PAYMENT

9-1.05 STOP PAYMENT NOTICES.

The City may, at its option and at any time, retain amounts due to the Contractor, sums sufficient to cover claims (including costs and attorney' s fees), filed pursuant to California Civil Code Section 9350 et seq.

9-1.06 PARTIAL PAYMENTS.

The City, once in each month, shall cause an estimate in writing to be made by the Engineer. The estimate shall include the total amount of work done and acceptable materials furnished, provided the acceptable materials are listed as eligible for partial payment as materials in the special provisions and are furnished and delivered by the Contractor on the ground and not used or are furnished and stored for use on the contract, if the storage is within the State of California and the Contractor furnishes evidence satisfactory to the Engineer that the materials are stored subject to or under the control of the Department, to the time of the estimate, and the value thereof. The estimate shall also include any amounts payable for mobilization. Daily extra work reports furnished by

the Contractor less than five (5) working days before the preparation of the monthly progress estimate shall not be eligible for payment until the following month's estimate.

The amount of any material to be considered in making an estimate will in no case exceed the amount thereof which has been reported by the Contractor to the Engineer on forms properly filled out and executed, including accompanying documentation as therein required, less the amount of the material incorporated in the work to the time of the estimate. Only materials to be incorporated in the work will be considered. The estimated value of the material established by the Engineer will in no case exceed the contract price for the item of work for which the material is furnished.

The Department shall retain five percent (5%) of such estimated value of the work done and five percent (5%) of the value of materials so estimated to have been furnished and delivered and unused or furnished and stored as aforesaid as part security for the fulfillment of the Contract by the Contractor.

The Department shall pay monthly to the Contractor, while carrying on the work, the balance not retained, as aforesaid, after deducting therefrom all previous payments and all sums to be kept or retained under the provisions of the contract. No monthly estimate or payment shall be required to be made when, in the judgment of the Engineer, the work is not proceeding in accordance with the provisions of the contract.

No monthly estimate or payment shall be construed to be an acceptance of any defective work or improper materials.

Attention is directed to the prohibitions and penalties pertaining to unlicensed contractors as provided in Business and Professions Code Sections 7028.15(a) and 7031.

9-1.065 PAYMENT OF WITHHELD FUNDS.

Except as otherwise prohibited by law, the Contractor may elect to receive all payments due under the Contract pursuant to Section 9-1.06 of these Specifications without any retention. If the Contractor so elects, a deposit with the City of securities with a value equivalent to the retention that would otherwise be withheld by the City shall be made. Said security shall be as provided in California Public Contract Code Section 22300 and shall be approved by the City both as to sufficiency and form. In the alternative, the Contractor may elect to deposit such securities in an escrow account and enter into a standard form Public Works Retention Release/Escrow Agreement. Blank Agreements are available from the Public Works Director and the City Attorney's Office.

9-1.10 ARBITRATION.

Arbitration is not permitted.

9-1.11 CLAIMS FOR EXTRA COMPENSATION FOR DELAYS.

It is understood and agreed by the City and the Contractor that the Contractor will incur overhead costs for temporary facilities, superintendence, home office overhead, and similar cost items, and that the costs of such overhead for the full Contract period through the specified completion date are included in the Contractor's lump sum bid amounts included in his accepted Proposal. No additional compensation will be made to the Contractor for claims of increased overhead costs occurring within the originally specified construction Contract period plus any time extensions granted by Change Order. No compensation for extended performance will be granted unless the delay exceeds more than half of the float time available at the time of the delay."

9-1.12 DISPUTES

DISPUTES. Effective January 1, 1991, Section 20104 et seq., of the California Public Contract Code prescribes a process utilizing informal conferences, non-binding judicial supervised mediation, and judicial arbitration to resolve disputes on construction claims of \$375,000 or less. Effective January 1, 2017, Section 9204 of the Public Contract Code prescribes a process for negotiation and mediation to resolve disputes on construction claims. The intent of this Section is to implement Sections 20104 et seq. and Section 9204 of the California Public Contract Code. This Section shall be construed to be consistent with said statutes.

CLAIMS. For purposes of this Section, "Claim" means a separate demand by CONTRACTOR, after a change order duly requested in accordance with the terms of this Contract has been denied by the CITY, for (A) a time extension, (B) payment of money or damages arising from Work done by or on behalf of CONTRACTOR pursuant to the Contract, or (C) an amount the payment of which is disputed by the CITY. A "Claim" does not include any demand for payment for which CONTRACTOR has failed to provide notice, request a change order, or otherwise failed to follow any procedures contained in the Contract Documents. Claims governed by this Section may not be filed unless and until CONTRACTOR completes all procedures for giving notice of delay or change and for the requesting of a time extension or change order, including but not necessarily limited to the change order procedures contained herein, and CONTRACTOR's request for a change has been denied in whole or in part. Claims governed by this Section must be filed no later than fourteen (14) calendar days after a request for change has been denied in whole or in part or after any other event giving rise to the Claim. The Claim shall be submitted in writing to the CITY and shall include on its first page the following in 16 point capital font: "THIS IS A CLAIM." Furthermore, the claim shall include the documents necessary to substantiate the claim. Nothing in this Section is intended to extend the time limit or supersede notice requirements otherwise provided by contract for the filing of claims, including all requirements pertaining to compensation or payment for extra Work, disputed Work, and/or changed conditions. Failure to follow such contractual requirements shall bar any claims or subsequent lawsuits for compensation or payment thereon.

Supporting Documentation. The CONTRACTOR shall submit all claims in the following format: Summary of claim merit and price, reference Contract Document provisions pursuant to which the claim is made List of documents relating to claim: Specifications Drawings Clarifications (Requests for Information) Schedules Chronology of events and correspondence Analysis of claim merit Analysis of claim cost Time impact analysis in CPM format

Other

If CONTRACTOR's claim is based in whole or in part on an allegation of errors or omissions in the Drawings or Specifications for the Project, CONTRACTOR shall provide a summary of the percentage of the claim subject to design errors or omissions and shall obtain a certificate of merit in support of the claim of design errors and omissions.

Cover letter and certification of validity of the claim, including any claims from subcontractors of any tier, shall be in accordance with Government Code section 12650 et seq.

CITY'S RESPONSE. Upon receipt of a claim pursuant to this Section, CITY shall conduct a reasonable review of the claim and, within a period not to exceed forty-five (45) calendar days, shall provide CONTRACTOR a written statement identifying what portion of the claim is disputed and what portion is undisputed. Any payment due on an undisputed portion of the claim will be processed and made within sixty (60) working days after the public entity issues its written statement.

If CITY needs approval from City Council to provide the CONTRACTOR a written statement identifying the disputed portion and the undisputed portion of the claim, and the City Council does not meet within the forty-five (45) working days or within the mutually agreed to extension of time following receipt of a claim sent by registered mail or certified mail, return receipt requested, CITY shall have up to three working days following the next duly publicly noticed meeting of the City Council after the forty-five (45) working-day period, or extension, expires to provide CONTRACTOR a written statement identifying the disputed portion and the undisputed portion.

Within thirty (30) working days of receipt of a claim, CITY may request in writing additional documentation supporting the claim or relating to defenses or claims CITY may have against the CONTRACTOR. If additional information is thereafter required, it shall be requested and provided pursuant to this subdivision, upon mutual agreement of CITY and the CONTRACTOR.

CITY's written response to the claim, as further documented, shall be submitted to CONTRACTOR within thirty (30) working days (if the claim is less than \$50,000, within fifteen (15) working days) after receipt of the further documentation, or within a period of time no greater than that taken by CONTRACTOR in producing the additional information or requested documentation, whichever is greater.

MEET AND CONFER. If the CONTRACTOR disputes CITY's written response, or CITY fails to respond within the time prescribed, the CONTRACTOR may so notify CITY, in writing, either within fifteen (15) calendar days of receipt of CITY's response or within fifteen (15) calendar days of CITY's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand, CITY shall schedule a meet and confer conference within thirty (30) calendar days for settlement of the dispute.

MEDIATION. Within ten (10) working days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, CITY shall provide the CONTRACTOR a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within sixty (60) working days after CITY issues its written statement. Any disputed portion of the claim, as identified by CONTRACTOR in writing, shall be submitted to nonbinding mediation, with CITY and CONTRACTOR sharing the associated costs equally. CITY and CONTRACTOR shall mutually agree to a mediator within ten (10) working days after the disputed portion of the claim has been identified in writing unless the parties agree to select a mediator at a later time.

If the Parties cannot agree upon a mediator, each Party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each Party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator.

For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the Parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.

Unless otherwise agreed to by CITY and CONTRACTOR in writing, the mediation conducted pursuant to this section shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.

The mediation shall be held no earlier than the date CONTRACTOR completes the Work or the date that CONTRACTOR last performs Work, whichever is earlier. All unresolved claims shall be considered jointly in a single mediation unless a new unrelated claim arises after mediation is completed.

Procedures After Mediation. If following the mediation, the claim or any portion remains in dispute, CONTRACTOR must file a claim pursuant to Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code. For purposes of those provisions, the running of the period of time within which a claim must be filed shall be tolled from the time CONTRACTOR submits his or her written claim pursuant to subdivision (a) until the time the claim is denied, including any period of time utilized by the meet and confer conference or mediation.

CIVIL ACTIONS. The following procedures are established for all civil actions filed to resolve claims subject to this Section:

Within sixty (60) calendar days, but no earlier than thirty (30) calendar days, following the filing or responsive pleadings, the court shall submit the matter to nonbinding mediation unless waived by mutual stipulation of both parties or unless mediation was held prior to commencement of the action in accordance with Public Contract Code section 9204 and the terms of these procedures. The mediation process shall provide for the selection within fifteen (15) calendar days by both parties of a disinterested third person as mediator, shall be commenced within thirty (30) calendar days of the submittal, and shall be concluded within fifteen (15) calendar days from the commencement of the mediation unless a time requirement is extended upon a good cause showing to the court. If the matter remains in dispute, the case shall be submitted to judicial arbitration pursuant to Chapter 2.5 (commencing with Section 1141.10) of Title 3 of Part 3 of the Code of Civil Procedure, notwithstanding Section 1114.11 of that code. The Civil Discovery Act of 1986 (Article 3 (commencing with Section 2016) of Chapter 3 of Title 3 of Part 4 of the Code of Civil Procedure) shall apply to any proceeding brought under this subdivision consistent with the rules pertaining to judicial arbitration.

In addition to Chapter 2.5 (commencing with Section 1141.10) of Title 3 of Part 3 of the Code of Civil Procedure, (A) arbitrators shall, when possible, be experienced in construction law, and (B) any party appealing an arbitration award who does not obtain a more favorable judgment shall, in addition to payment of costs and fees under that chapter, also pay the attorney's fees on appeal of the other party.

Government Code Claims. In addition to any and all contract requirements pertaining to notices of and requests for compensation or payment for extra work, disputed work, claims and/or changed conditions, CONTRACTOR must comply with the claim procedures set forth in Government Code sections 900 et seq. prior to filing any lawsuit against the CITY. Such Government Code claims and any subsequent lawsuit based upon the Government Code claims shall be limited to those matters that remain unresolved after all procedures pertaining to extra work, disputed work, claims, and/or changed conditions have been followed by CONTRACTOR. If no such Government Code claim is submitted, or if any prerequisite contractual requirements are not otherwise satisfied as specified herein, CONTRACTOR shall be barred from bringing and maintaining a valid lawsuit against the CITY. A Government Code claim must be filed no earlier than the date the work is completed or the date CONTRACTOR last performs work on the Project, whichever occurs first. A Government Code claim shall be inclusive of all unresolved claims unless a new unrelated claim arises after the Government Code claim is submitted.

9-1.17 PAYMENT AFTER ACCEPTANCE.

Final Payment shall be made in accordance with this section. The Contractor shall, after the completion of the Contract, submit a final estimate of the amount of work done thereunder and the value of such work. Upon approval of the estimate by the Director, the City of Goleta shall pay the entire sum so found to be due after deducting therefrom all previous payments and all amounts to be kept and all amounts to be retained under the provisions of the Contract. All prior partial estimates and payment shall be subject to correction in the final estimate and payment. The final payment shall not be due and payable until the expiration of thirty-five (35) working days from the date of Acceptance of the work by the City Council, and thirty-five (35) calendar days after filing of the Notice of Completion with the County of Santa Barbara.

No certificate given or payments made under the Contract, except the final certificate or final payment, shall be conclusive evidence of the performance of the Contract, either wholly or in part, and no payment (including the final payment) or certificate shall be construed to be an Acceptance of any defective work or improper materials. Final payment shall not release the Contractor from one (1) year guarantee of the work as provided in Section 7-1.14 ACCEPTANCE OF CONTRACT and Section 2-1.12 GUARANTEE AND WARRANTY of these Specifications.

END OF CITY OF GOLETA CONSTRUCTION SPECIFICATIONS

SECTION VII

SPECIAL PROVISIONS

CITY OF GOLETA



BOOK 2 OF 2

SPECIAL PROVISIONS

FOR

2025 ARTERIAL PAVEMENT PROJECT CITY PROJECT NUMBER: N/A

-Received By:	
- Signed by: <u>Mua Buelna</u> <u>193EE6F31037476</u> <u>Luz "Nina" Buelna, P.E.</u>	
-Public Works Director	
The Engineers whose stamp and signature appear- herein are in responsible charge of preparing these plans and specifications.	

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CITY PROJECT NO. N/A

The Special Provisions contained herein have been prepared by or under the direction of the following Registered Persons.

CIVIL

ESS C84897 Exp. 03-31-26 OF CAL

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Paul K. Mateo, PE Associate Engineer Pavement Engineering Inc.

DATE

April 10, 2025

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TABLE OF CONTENTS

SPECIAL PROVISIONS
SCOPE OF SPECIAL PROVISIONS
DIVISION I GENERAL PROVISIONS
1 GENERAL
2 BIDDING7
3 CONTRACT AWARD AND EXECUTION
4 SCOPE OF WORK
5 CONTROL OF WORK
6 CONTROL OF MATERIALS
7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC
8 PROSECUTION AND PROGRESS
9 PAYMENT
DIVISION II GENERAL CONSTRUCTION
10 GENERAL
12 TEMPORARY TRAFFIC CONTROL
13 WATER POLLUTION CONTROL
14 ENVIRONMENTAL STEWARDSHIP
15 EXISTING FACILITIES91
DIVISION III EARTHWORK AND LANDSCAPE
19 EARTHWORK
20 LANDSCAPE
DIVISION IV SUBBASES AND BASES
30 RECLAIMED PAVEMENT



DIVISION V SURFACINGS AND PAVEMENTS104	
37 BITUMINOUS SEALS	
39 ASPHALT CONCRETE	
DIVISION IX TRAFFIC CONTROL DEVICES	
82 SIGNS AND MARKERS	
84 MARKINGS142	
DIVISION XI MATERIALS	
90 CONCRETE	

APPENDICES

APPENDIX A

MAINTENANCE BOND GUARANTEE AND WARRANTY SECURITY

APPENDIX B

• CONTRACTOR'S DAILY REPORT

APPENDIX C

MONUMENT PERPETUATION REPORT

APPENDIX D

• DAYTIME WORK RESTRICTIONS

APPENDIX E

• SAMPLE DOOR HANGER

APPENDIX F

• TEMPORARY NO PARKING SIGN

APPENDIX G

SCHOOL ZONE WORK HOUR RESTRICTION MAP

APPENDIX H

• WEEKLY STATEMENT OF WORKING DAYS

APPENDIX I

• CC1 – CC5 FORMS

APPENDIX J

• C48(CA) SIGN DETAIL



APPENDIX K

PORTABLE CHANGEABLE MESSAGE SIGN MAP

APPENDIX L

• BMP DEVICES

APPENDIX M

• WATER POLLUTION CONTROL PLAN

APPENDIX N

• STANDARD DRAWINGS AND DETAILS

APPENDIX O

• PREVAILING WAGE RATES

APPENDIX P

• NOTICE OF ASSEMBLY BILL 626183

APPENDIX Q

POST CONSTRUCTION WASTE & RECYCLING SUMMARY

ADDENDUM 1

SPECIAL NOTICES

- Attention is directed to Section 9-1.03 PAYMENT SCOPE of the State Standard Specifications: "Full compensation for work specified in Divisions I, II, and XI is included in the payment for the bid items unless:
 - 1. Bid item for the work is shown on the Bid Item List
 - 2. Work is specified as change order work

SPECIAL PROVISIONS FOR THE CITY OF GOLETA 2025 ARTERIAL PAVEMENT PROJECT

SCOPE OF SPECIAL PROVISIONS

The work described in these Special Provisions shall be performed in conformance with the 2018 State Standard Specifications and the most current Revised Standard Specification. Standard Special Provisions, and Plans, City of Goleta Construction Specifications, City of Goleta Design and Construction Standards, and Revised Standard Specifications, and Plans, except insofar as these Special Provisions may modify them.

Numbering in these Special Provisions conforms to that in the State Standard Specifications. The existence of a Section in these Special Provisions means that the corresponding Section in the State Standard Specifications is modified in some respect.

Construction materials, payments, etc., for items of work shown in the proposal and on the plans, but not specifically mentioned in these Special Provisions are referred to the State Standard Specifications for conformance.

DISCREPANCIES AND OMISSIONS

Any discrepancies or omissions found in the Contract Documents shall be reported to the Engineer immediately. The Engineer will clarify discrepancies or omissions, in writing, within reasonable time.

In resolving inconsistencies among two or more Sections of the Contract Documents, precedence shall be given in the following order:

- 1. Change Orders
- 2. Addenda
- 3. The Agreement
- 4. Special Provisions upon Specifications
- 5. Plans shall govern in matters of quantity and measurement
- 6. Specifications govern in matters of quality
- 7. Profile Plans govern upon Layout Plans
- 8. Specific Notes shall govern over other/general notes
- 9. Larger scale drawings shall govern within smaller scale ones
- 10. Detail plans govern over State Standard Plans
- 11. Figured or numerical dimensions govern over dimensions obtained by scaling.
- 12. 2018 State Standard Specifications and Revised Standard Specifications, Standard Special Provisions, and Plans
- 13. City of Goleta Construction Specifications
- 14. County of Santa Barbara Engineering Design Standards
- 15. Where provisions of codes, safety orders, Contract Documents, referenced manufacturers' specifications or industry standards conflict, the more restrictive and higher quality shall govern.

16. Addenda shall take precedence over all Sections referenced therein. Figure dimensions on Drawings shall take precedence over general Drawings.

ORGANIZATION

Special provisions are under headings corresponding with the *State Standard Specifications'* mainsection headings. A main-section heading is a heading shown in the table of contents of the *State Standard Specifications*.

Each special provision begins with a revision clause that describes or introduces a revision to the *State Standard Specifications* as revised by any revised standard specification.

Any paragraph added or deleted by a revision clause does not change the paragraph numbering of the *State Standard Specifications* for any other reference to a paragraph of the *State Standard Specifications*.

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DIVISION I GENERAL PROVISIONS

1 GENERAL

Add to Section 1-1.06 ABBREVIATIONS:

NOC	Notice of Completion
NTP	Notice to Proceed
(P)	Partial Payment
RSS	Revised Standard Specification
QA	quality assurance
QC	quality control
UAS	unmanned aircraft systems
SF	Square Feet
SY	Square Yards

Add or replace the various items of Section 1-1.07 DEFINITIONS:

Whenever in the State Standard Specifications, Special Provisions, Notice to Contractors, Proposal, Contract, or other contract documents, the following terms are used, the intent and meaning must be interpreted as follows:

Agency: City of Goleta

Allowance: "Allowance" shall mean an amount of money set aside under the Contract for a special purpose identified and defined in the Contract Documents.

State: California Department of Transportation or City of Goleta to be interpreted by the Engineer

Department: City of Goleta

Director: City of Goleta Public Works Director

District: The Public Works Department, City of Goleta

When a submittal is to be made to METS or to OSD, submit the items to the Engineer unless otherwise noted.

Engineer: The Director of Public Works, City of Goleta, acting either directly or through properly authorized agent or consultants.

Final Completion: The date when the Work is 100% complete, including completion and acceptance of all punch list corrections, as built submittal, operation and maintenance manuals, warranty checklist, and plant establishment, as certified by the Engineer.

References to the Bidder's Exchange means the City of Goleta

References to Notice to Bidders means Notice to Contractors

References to the Department's *Certification Program for Suppliers of Asphalt* means Caltrans' *Certification Program for Suppliers of Asphalt.*

References to the Department's *Construction Site Best Management Practices (BMP) Manual* means Caltrans'.

References to the Department's *Construction Site Monitoring Program (CSMP) Guidance Manual* means Caltrans'.

References to the Department's Dispute Resolution Advisor Candidates List refers to Caltrans'.

References to the Department's Division of Construction Website means Caltrans'.

References to the Department's Falsework Manual means Caltrans' manual.

References to the Department's Field Guide for Construction Site Dewatering means Caltrans'.

References to the Department's *Field Guide to Partnering on Caltrans Construction Projects* means Caltrans'.

References to the Department's Materials Plant Quality Program means Caltrans'.

References to the Department's *Partnering Facilitator Standards and Expectations* means Caltrans'.

References to the Department's *Quality Control Manual for Hot Mix Asphalt Production and* Placements means Caltrans'.

References to the Department's Soil and Rock Logging, Classification, and Presentation Manual means Caltrans'.

References to the Department's *Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Plan* means the project SWPPP.

References to the Department's Traffic Operations Website means Caltrans' website.

References to the Department's Transportation Permits Manual means the Department's.

References to the Department's Value Analysis Team Guide means Caltrans'.

References to Geotechnical Services website means Caltrans' Website.

References to Geotechnical Services means the Engineer.

References to the METS Website means the Caltrans METS Website.

Replace the following glossary terms in Section 1-1.07B Glossary with:

- Authorized Laboratory: Independent testing laboratory (1) not employed or compensated by any subcontractor or subcontractor's affiliate providing other services for the Contract and (2) authorized by Caltrans.
- **Bid Item List:** List of bid items and the associated quantities. The verified Bid Item List is the Bid Item List with verified prices. The Contract Proposal of Low Bidder is the verified Bid Item List. After Contract award, interpret a reference to the Bid Item List as a reference to the verified Bid Item List. Item List.
- **California Test:** Caltrans-developed test for determining work quality. For California Tests, go to the METS Web site.

Department: City of Goleta

Director: City of Goleta Public Works Director

- **Engineer:** The Director of Public Works, City of Goleta, acting either directly or through properly authorized agent or consultants.
- **Material Source Facility Audit:** Self-audit and a Caltrans audit evaluating a facility's capability to consistently produce materials that comply with Caltrans standards.

Plans: State Standard plans, revised standard plans, and project plans.

- 1. **State Standard Plans:** The 2018 Standard Plans of the Department of Transportation of the State of California.
- 2. **Revised Standard Plans:** The Revised Standard Plans of the Department of Transportation of the State of California.
- 3. Project Plans: Drawings specific to the project, including authorized shop drawings

Schedule:

- 1. **Baseline Schedule:** Initial schedule showing the original work plan starting on the date of Contract approval. This schedule shows no completed work to date and no negative float or negative lag to any activity.
- 2. **Updated Schedule:** Current schedule developed from the accepted baseline and any subsequent accepted update schedules through regular monthly review to incorporate actual past progress.

Specifications: State Standard Specifications, revised standard specifications, special provisions

- 1. **State Standard Specifications:** Specifications standard to Caltrans' construction projects. These specifications are in a book titled Standard Specifications 2018.
- 2. **Revised Standard Specifications:** New or revised standard specifications. These specifications are in a section titled Revised Standard Specifications in a book titled REVISIONS TO THE STANDARD SPECIFICATIONS.
- 3. **Special Provisions:** Specifications specific to the project.

Structure Design: City of Goleta Department of Public Works

Add to Section 1-1.07B:

Caltrans: California Department of Transportation as defined in St. & Hwy Code section 20 and authorized in St. & Hwy Code section 90; its authorized representatives.

Office Engineer: City of Goleta

Project biologist: A USFWS-approved biologist provided by the City

Replace Section 1-1.12 MISCELLANY with:

1-1.12 MISCELLANEOUS

Make checks and bonds payable to the City of Goleta.

^^^^

2 BIDDING

Add to Section 2-1.01 GENERAL:

2-1.01 GENERAL

The bidder's attention is directed to the provisions in Section 2 BIDDING of the State Standard Specifications for the requirements and conditions which he/she must observe in the preparation of the proposal form and the submission of the bid.

Add Section 2-1.03A OBTAINING PLANS AND SPECIFICATIONS:

2-1.03A OBTAINING PLANS AND SPECIFICATIONS

All Contract Documents and the Proposal Forms for bidding this project, may be obtained at PlanetBids at <u>http://www.planetbids.com/</u>. The service requires that the Contractor establish a username and password in order to download and/or order plans and specifications.

Replace *Reserved* in Section 2-1.05 CONFLICT OF INTEREST with:

2-1.05 CONFLICT OF INTERESTS

In conformance with Public Contract Code Section 7106, a Noncollusion Affidavit is included in the Bid Book. Signing the Bid Book shall also constitute the signature of the Noncollusion Affidavit.

The Contractor, sub-recipient or subcontractor shall not discriminate based on race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of Title 49 CFR (Code of Federal Regulations), Part 26 in the award and administration of US DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as the recipient deems appropriate. Each subcontract signed by the bidder must include this assurance.

Replace Section 2-1.06A BID DOCUMENTS with:

2-1.06A GENERAL

Bids must be submitted to the City of Goleta's Planet Bids portal as outlined in the Notice to Contractors and shall be submitted no later than the date and time of public submittal of proposals as specified in the Notice to Contractors. Any addenda to these Special Provisions or other contract documents shall be acknowledged where indicated.

2-1.06.A(1) Questions

Questions shall be submitted in writing to <u>http://www.planetbids.com/</u> no later than (5) five working days prior to the bid opening. Questions submitted after the above listed deadline will not be addressed and will be returned to the Contractor. The City will respond in writing to the questions (3) three working days prior to the bid opening.

Add Section 2-1.10A REQUIRED LISTING OF SUBCONTRACTORS:

2-1.10A REQUIRED LISTING OF SUBCONTRACTORS

The bidder's attention is directed to other provisions of said Act related to the imposition of penalties for a failure to observe its provisions by using unauthorized Subcontractors or by making unauthorized substitutions.

A sheet for listing the Subcontractors, as required herein, is included in the Proposal.

Add Section 2-1.34A WARRANTY BOND:

2-1.34A WARRANTY BOND

The Contractor shall execute and submit a completed Warranty Bond provided by the City for the Project. A copy of the Warranty Bond is located within Appendix A of these Special Provisions. The Warranty Bond shall be submitted prior to the Notice of Completion date.

Nothing in the Contract Documents shall be construed to limit, relieve or release the Contractor's, subcontractor's and/or equipment supplier's liability to the City for damages sustained as the result of latent defects in the equipment furnished or work performed. Further, nothing in the Contract Documents shall be deemed to be a waiver by the City of any rights or remedies, or time limits in which to enforce such rights or remedies, that it may have against the Contractor, subcontractors, suppliers of the equipment and work performed under the Contract Documents.

The Contractor shall repair failed areas in full, from lane line to lane line, no partial repairs will be accepted. All work done on failed areas shall be done in accordance with these Special Provisions.

3 CONTRACT AWARD AND EXECUTION

The bidder's attention is directed to the provisions in Section 3 CONTRACT AWARD AND EXECUTION of the State Standard Specifications and these Special Provisions.

Add Section 3-1.01A AWARD OF CONTRACT:

3-1.01A AWARD OF CONTRACT

If the contract is to be awarded, will be to the lowest responsible bidder whose proposal complies with all the requirements prescribed.

The project has been set up using a Base Bid/Bid Alternate format. The City shall determine the lowest responsible, responsive bidder based on the lowest total of the Base Bid plus the Bid Alternates. If the City is to award, the City shall award the contract to the lowest responsible, responsive bidder based on the lowest total of the Base Bid plus the Bid Alternates. At its discretion, the City may award the contract for Base Bid only or Base Bid plus one or any/all alternatives. The Contractor must submit pricing for all Base Bid items and Bid Alternates as shown in the Schedule of Bid Items. No response or a response of zero on any bid items will be deemed a non-responsive bid.

Bid Alternates shall include items from the Base Bid as required and may also incorporate additional work not included in the Base Bid scope. Bid Alternates modify, supplement, or expand upon the Base Bid, as specified in the contract documents. Work included in Bid Alternates shall conform to the requirements of the State Standard Specifications and these Special Provisions.

The bidder's attention is directed to the provisions in Section 3 CONTRACT AWARD AND EXECUTION of the State Standard Specifications and these Special Provisions for the requirements and conditions concerning award and execution of contract. Bid protests shall be submitted as outlined in the Notice to Contractors.

The successful bidder shall execute the contract and shall return it, together with the performance and payment bonds, insurance, and agreement, to the City so that it is received within ten (10) working days after the bidder has received the contract for execution. Failure to do so shall be just cause for forfeiture of the proposal guaranty. The executed contract documents shall be delivered to the office of the City Clerk at 130 Cremona Drive, Suite B, Goleta, California 93117.

Replace Reserved in Section 3-1.09 with ADDITIONAL CONTRACT DOCUMENTS:

3-1.09 ADDITIONAL CONTRACT DOCUMENTS

The Engineer will furnish to the Contractor, on request and free of charge, five copies of the contract documents and five sets of full-size plans. Copies of contract documents or plans, in addition to that which will be provided by the Engineer, may be obtained by paying the actual cost of reproducing the contract documents or plans.

Replace Section 3-1.18 CONTRACT EXECUTION with:

3-1.18 CONTRACT EXECUTION

Attention is directed to Book 1 "Bid Book". The successful bidder must sign the *Contract*.

Deliver to the office of the City Clerk at 130 Cremona Drive, Suite B, Goleta, California 93117.

- 1. Signed Contract/ Agreement
- 2. Performance and Payment bonds
- 3. Documents identified in Section V INSURANCE & BONDS of Book 1 "Bid Book".

The City must receive these documents within ten (10) working days after the bidder has received the contract for execution .

The bidder's security may be forfeited for failure to execute the contract within the time specified (Pub Cont Code §§ 10181, 10182, and 10183).

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4 SCOPE OF WORK

Add to Section 4-1.01 GENERAL:

The project consists of placement of Hot Mix Asphalt (HMA) pavement materials such as HMA mill and fill; pulverizing, treating, removal, and disposal of the HMA roadway section; replacement and compaction of subsurface material; construction of Portland Cement Concrete (PCC) curb ramps, curbs & gutters, placement of HMA pavement, tree removal and trimming, pavement marked and striping removal, temporary, and permanent.. The work includes but is not limited to traffic control and erosion control.

Add Section 4-1.05C SIGNIFICANT CHANGES IN THE CHARACTER OF WORK:

4-1.05C SIGNIFICANT CHANGES IN THE CHARACTER OF WORK

- 1. The Engineer reserves the right to make, in writing, at any time during the work, such changes in quantities and such alterations in the work as are necessary to satisfactorily complete the project. Such changes in quantities and alterations shall not invalidate the contract nor release the surety, and the contractor agrees to perform the work as altered.
- 2. If the alterations or changes in quantities significantly change the character of the work under the contract, whether such alterations or changes are in themselves significant changes to the character of the work or by affecting other work cause such other work to become significantly different in character, an adjustment, excluding anticipated profit, will be made to the contract. The basis for the adjustment shall be agreed upon prior to the performance of the work. If a basis cannot be agreed upon, then an adjustment will be made either for or against the contractor in such amount as the engineer may determine to be fair and equitable.
- 3. If the alterations or changes in quantities do not significantly change the character of the work to be performed under the contract, the altered work will be paid for as provided elsewhere in the contract.
- 4. The term "significant change" shall be construed to apply only to the following circumstances:
 - When the character of the work as altered differs materially in kind or nature from that involved or included in the original proposed construction; or
 - When a major item of work, as defined elsewhere in the contract, is increased in excess of 125 percent or decreased below 75 percent of the original contract quantity. Any allowance for an increase in quantity shall apply only to that portion in excess of 125 percent of original contract item quantity, or in case of a decrease below 75 percent, to the actual amount of work performed.

Replace *Reserved* in Section 4-1.06A with:

During the progress of the work, if subsurface or latent physical conditions are encountered at the site differing materially from those indicated in the contract or if unknown physical conditions of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the work provided for in the contract, are encountered at the site, the party discovering such conditions shall promptly notify the other party in writing of the specific differing conditions before the site is disturbed and before the affected work is performed.

Upon written notification, the Engineer will investigate the conditions, and if it is determined that the conditions materially differ and cause an increase or decrease in the cost or time required for the performance of any work under the contract, an adjustment, excluding anticipated profits, will be made and the contract modified in writing accordingly. The Engineer will notify the contractor of the determination whether or not an adjustment of the contract is warranted.

No contract adjustment which results in a benefit to the contractor will be allowed unless the contractor has provided the required written notice.

The Contractor will be allowed ten (10) working days from the notification of the Engineer's determination of whether or not an adjustment of the contract is warranted, in which to file a notice of potential claim in conformance with the provisions of Section 9-1.12 DISPUTES of the Goleta Construction Specifications and as specified herein; otherwise the decision of the Engineer shall be deemed to have been accepted by the Contractor as correct. The notice of potential claim shall set forth in what respects the Contractor's position differs from the Engineer's determination and provide any additional information obtained by the Contractor. The notice of potential claim shall be accompanied by the Contractor's certification that the following were made in preparation of the bid: a review of the contract, a review of the "Materials Information,", and an examination of the Contractor subsequent to the filing of the notice of potential claim, shall be submitted to the Engineer in an expeditious manner.

Replace Section 4-1.07C VALUE ENGINEERING with: 4-1.07C VALUE ANALYSIS WORKSHOP

Not Used

Add to Section 4-1.13 CLEANUP:

The Contractor shall remove all temporary pavement delineation.

Prior to submitting the final payment request, the Contractor shall remove all reference markings (i.e. USA markings, striping reference points, utility reference points) placed during the course of work.

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5 CONTROL OF WORK

Replace *Reserved* in Section 5-1.05 with: 5-1.05 ORDER OF WORK

The Contractor shall prepare a traffic control plan that conforms to Section 12 TEMPORARY TRAFFIC CONTROL of these Special Provisions.

The work shall be performed in conformance with the phases of construction shown on the Contractor's Traffic Control Plan. Non-conflicting work in subsequent phases may proceed concurrently with work in preceding phases.

The first order of work shall be potholing. The Contractor to contact Underground Service Alert (U.S.A.) and to verify the location of all utilities in the vicinity of project area. The Contractor shall verify the size, location (horizontal and vertical) to the satisfaction of the Engineer and utility representatives as outlined in Section 19-1.01A(1) POTHOLE UTILITIES of these Special Provisions. The Contractor shall provide the pothole information within the time frame outlined in Section 19-1.01A(1) POTHOLE UTILITIES of these Special Provisions. The Contractor shall notify the Engineer five (5) working days prior to commencing potholing within the project area. The Contractor's attention is directed to Section 19-1.01A(1) POTHOLE UTILITIES, in these Special Provisions.

All work in the NORTHEAST GOLETA NEIGHBORHOOD (Plan Sheets 13 – 26) shall be completed by August 1, 2025. Failure to comply with these provisions will result in liquidated damages that shall be applied to the Contractor's progress payment as outlined in section 8-1.07, Liquidated Damages.

Replace *Reserved* in Section 5-1.07 SUPERINTENDENCE with: 5-1.07 SUPERINTENDENCE

The Contractor shall designate in writing before starting work, an authorized representative who shall have the authority to represent and act for the Contractor. When the Contractor is comprised of two (2) or more persons, firms, partnerships or corporations functioning on a joint venture basis, the Contractor shall designate in writing before starting work, the name of one authorized representative who shall have the authority to represent and act for the Contractor.

The authorized representative shall be present at the site of the work at all times while work is actually in progress on the contract. When work is not in progress and during periods when work is suspended, arrangements acceptable to the Engineer shall be made for any emergency work which may be required. Whenever the Contractor or the Contractor's authorized representative is not present on any particular part of the work where it may be desired to give direction, orders will be given by the Engineer, which shall be received and obeyed by the superintendent or foreman who may have charge of the particular work in reference to which the orders are given. Any order given by the Engineer, not otherwise required by the specifications to be in writing, will on request of the Contractor, be given or confirmed by the Engineer in writing.

Replace *Reserved* in Section 5-1.08 INSPECTION with: 5-1.08 INSPECTION

All work is subject to inspection and approval by the Engineer. The Contractor shall notify the Engineer, along with all affected utility companies, two (2) working days in advance of the start of work to coordinate and schedule inspection staff.

The City will provide one (1) inspection and one (1) resident engineering cost on 8-hour day and 40-hour week basis only excluding designated City, State, or Federal holidays. The Contractor shall reimburse the City in the amount of \$200.00 per hour for the actual cost of all inspection and \$260 per hour for Resident Engineer cost in excess of the hours of work specified here and working hours or inspection performed during designated City, State, or Federal holidays. Designated City holidays are listed in Section 7-1.02K(5) WORKING HOURS of these Special Provisions.

The Contractor shall provide a competent person during normal working hours to assist the Engineer, when required, in checking the Contractor's layout and for measuring quantities for payment purposes. The Contractor shall cooperate with the Engineer so that checking and measuring may be accomplished with the least interference to the Contractor's operations.

No additional compensation will be made to the Contractor for fulfilling these requirements.

Add to the end of Section 5-1.09A General:

The City encourages the project team to exhaust the use of partnering in dispute resolution before engagement of an objective third party.

For certain disputes, a facilitated partnering session or facilitated dispute resolution session may be appropriate and effective in clarifying issues and resolving all or part of a dispute.

To afford the project team enough time to plan and hold the session, a maximum of twenty (20) working days may be added to the Dispute Resolution Board (DRB) referral time following the Engineer's response to a Supplemental Potential Claim Record.

To allow this additional referral time, the project team must document its agreement and intention in the dispute resolution plan of the partnering charter. The team may further document agreement of any associated criteria to be met for use of the additional referral time. All costs associated with DRB on-site meetings will be split between the City and Contractor.

If the session is not held, the DRB referral time remains in effect as specified in Section 5-1.43 POTENTIAL CLAIMS AND DISPUTE RESOLUTION of these Special Provisions.

Add to the end of Section 5-1.13A General:

In addition to the requirements of Section 5-1.13 SUBCONTRACTING of the State Standard Specifications, and in accordance with the requirements of Section 4100 to

4113, inclusive, of the Government Code, each bidder shall list in his proposal the name and business address of each Subcontractor to whom the bidder proposes to subcontract all or a portion of the work. Said list shall include a description of the portion of the work which will be done by each Subcontractor. A sheet for listing the Subcontractor's, as required, is included in the proposal.

Add to the end of Section 5-1.16 REPRESENTATIVE:

In addition to the requirements of Section 5-1.16 REPRESENTATIVE of the State Standard Specifications, the Contractor must have a representative onsite at all times while work is in progress that has decision making authority.

Add to the end of Section 5-1.20A General:

During the progress of the work under this Contract, work under the following contracts may be in progress at or near the job site of this Contract:

Coincident or Adjacent Contracts

Contract no.	County–Route–Post	Location	Type of work
05-4611U4	Mile 05-SB-217-1.5/2.5	On Route 217 at Hollister Avenue Between PM 1.5 and 2.5	Interchange Roundabouts, Ekwill Street and Fowler Road Extensions
TBD	N/A	Northeast Goleta Neighborhood	Pavement resurfacing
TBD	N/A	San Jose Creek SB-101-21.4/21.9 to Armitos Ave (Northern Segment San Jose Creek SB-217-0.9/1.4 to South Kellogg (Southern Segment)	Multipurpose Path Extensions
05-1H4304	SB-101-21.4/21.9	IN SANTA BARBARA COUNTY IN GOLETA FROM ROUTE 101/217 SEPARATION TO 0.3 MILE NORTH OF SAN JOSE CREEK BRIDGE	Replace Structural Concrete Bridges
05-1C3604	SB-217-0.9/1.4	On Route 217 near Goleta From 0.2 miles East of Goleta Slough Bridge to 0.4 Mile East of San Jose Creek Bridge	Replace Bridge

Coordinate lane closures and traffic handling with the Engineer and with contractors of coincident or adjacent projects. Potential conflicts may not be limited to the contracts listed above.

Add to Section 5-1.23 SUBMITTALS:

The Contractor is required to use Construction Management Information System Software (CMIS) for all project documents and submittals, at the Contractor's expense.

Add to Section 5-1.23A General:

REVIEW TIMEFRAME:

- 1. Except as may be provided in these Special Provisions, a submittal will be returned as specified in the State Standard Specifications.
- 2. When a submittal cannot be returned within the specified period, Engineer will, within a reasonable time after receipt of the submittal, give notice of the date by which that submittal will be returned.
- 3. The Engineer's acceptance of progress schedule containing submittal review times less than those specified or agreed to in writing by Engineer will not constitute Engineer's acceptance of review times.
- 4. Critical submittals:
 - a) Contractor will notify Engineer in writing that timely review of a submittal is critical to the progress of Work.
- 5. The Engineer will provide decision on request.
 - a) Written acceptance of request.
 - b) Written agreement by Engineer to reduce submittal review time will be made only for unusual situations.
 - c) Written rejection of request.

SUBMITTAL REVIEW COSTS:

- 1. The City's cost for review of submittals for the same proposed materials, equipment or work shall be apportioned as follows:
 - a. The cost of review of the initial submittal and the first revised submittal will be borne by the City.
 - b. The cost to review all additional revised submittals after the first revised submittal will be charged to the Contractor at \$2,500 per submittal.
 - c. If a submittal is approved and the Contractor elects to submit an alternate item for review for the same application, the Contractor shall be responsible for the review costs for the alternate submittal at \$2,500 per submittal.

Delete item 2 in the list in the 3rd paragraph of Section 5-1.23B(2) Shop Drawings.

Add to Section 5-1.23B(2) Shop Drawings:

Each electronic submission must:

- 1. Be in PDF format submitted through CMIS
- 2. Have a resolution of at least 300 dpi
- 3. Contain the following information in the subject line:
 - 3.1. "Shop Drawing Submittal"
 - 3.2. Contract number
 - 3.3. Bid item number

Use the following naming convention for PDF files the Contractor submits: For shop drawings:

SD_Contract number _Bid item number_Submittal Name Example: SD_12-345678_123_XXX.PDF For shop drawings:

CALC_Contract number _Bid item number_Submittal Name Example: CALC_12-345678_123_XXX.PDF

If submittal of more than one (1) copy or set of shop drawings or calculations is specified, submit only 1 electronic copy.

After submitting the Contractor's electronic files, send a notification of the Contractor's electronic submittal to the Engineer. Include the names of the submitted files.

Upon completion of review, the City returns one (1) electronic copy with the date of authorization.

Replace Reserved in Section 5-1.24 with:

5-1.24 CONTRACTOR'S DAILY REPORTS

The Contractor shall maintain daily job reports recording all significant activity on the project, including number of workers on site, names and job classification of employees, active construction equipment used, notable deliveries, work activities, delays, interruptions or any problems encountered.

The Contractor shall submit a <u>Contractor's Daily Report</u> form, for approval by the Engineer, to record this information and submit this form to the Engineer no later than 9:00 AM the following morning for the previous workday. A sample of the Contractor's Daily Report form is located within Appendix B of these Special Provisions. If this is not submitted on time, the City shall withhold \$500/day from the Contractor's progress payment until this report is turned in.

If there is no work performed on any given day, the Contractor shall note the reasons for no work and submit a daily report to the Engineer on those days also.

Failure to stay current with daily reporting will be just cause for the Owner not processing a progress payment until reports are submitted.

Full compensation for conforming to the requirements of this Section shall be considered as included in the prices paid for the various contract items and no additional compensation will be allowed therefore.

Replace Reserved in Section 5-1.25 with:

5-1.25 RECORD DRAWINGS

The Contractor shall maintain a neat and accurate marked set of record drawings showing the final locations and layout of roadways, piping and conduit; structures; and other facilities. Maintain record drawings electronically on CMIS and grant access to the Engineer. Drawings shall be kept current weekly, with all work instructions and change orders, and construction adjustments. Drawings shall be subject to the inspection of the Engineer at all times and progress payments, or portions thereof, may be withheld if drawings are not accurate and current. Pipe material shall be added to drawings, if not denoted on contract drawings. Prior to acceptance of the work, the Contractor shall deliver to the Engineer one set of neatly marked record drawings in electronic format accurately showing the information required above.

Record drawings shall be submitted and approved by the Engineer in accordance with these Special Provisions.

Full compensation for conforming to the requirements of this Section shall be considered as included in the prices paid for the various contract items and no additional compensation will be allowed therefore.

Replace Section 5-1.26 CONSTRUCTION SURVEYS with:

Contractor shall provide the necessary horizontal and vertical survey control for the completion of the work. A Licensed Land Surveyor or a Registered Civil Engineer must perform survey work.

Control must be provided for site grading, significant layout, or as directed by Engineer. Control must be provided in the same system of units as shown. Contractor shall provide surface grade control every fifty (50) feet and at grade breaks and begin and end of curves. Contractor shall mark the control points in the field and provide a printed sheet with the point information, site layout, and control point layout to Engineer.

If working within twenty-four (24) inches of a survey monument or benchmark, Contractor shall employ a Licensed Land Surveyor or a Registered Civil Engineer to tie-out the monument or bench mark. Should any existing survey monument be disturbed or destroyed during construction, it must be reset at the previous location. Should any existing benchmark be disturbed or destroyed during construction, a new one must be set at a nearby, but different, location than the existing, as determined by Engineer. Monuments and benchmarks must be set by a Licensed Land Surveyor or a Registered Civil Engineer properly licensed to complete survey work. The City reserves the right to review the Land Surveyor or Engineer's license to determine its validity. For monuments, a Corner Record must be filed with the County and a copy delivered to Engineer. For benchmarks, documentation of the bench mark and how it was reset must be delivered to Engineer prior the project acceptance or sign off of the Encroachment Permit. Damaged or disturbed property corners must be replaced by a Land Surveyor at Contractor's expense.

If the area of removal has had roots or other materials removed, the void shall be filled with aggregate base, sand or native materials as appropriate.

5-1.26A SCOPE

Monument preservation tasks shall comply with Sections 8771 and 8772 of the Land Surveyor's Act effective January 1, 2012. Under Section 8771 monument preservation tasks are required at two stages of the improvement project; pre-construction and post-construction. A Monument Perpetuation Report has been prepared and is provided in Appendix C.

A. Pre-Construction

All monuments within the work area outlined on the project drawings that control the location of subdivisions, tracts, boundaries, roads, streets, or highways, or provide horizontal or vertical survey control shall be referenced and documented in the following manner:

- 1. Monuments found during the field inspection shall be located and referenced, at least one (1) week prior to start of construction, by or under the direction of a licensed land surveyor or registered civil engineer legally authorized to practice land surveying. A minimum of four (4) reference points per survey monument shall be set. Reference points shall be in compliance with Sections 8771 (a) and 8772 of the Land Surveyor's Act in terms of durability, location, and identification of the Licensed Land Surveyor, Registered Civil Engineer or public agency. Upon completion and no later than one (1) week prior to construction, the licensed land surveyor shall provide written notice to the City Surveyor stating the monuments have been located and referenced. An example can be provided by the City upon request.
- 2. A Corner Record or Record of Survey of the monuments and reference points shall be prepared and submitted to the Engineer for preliminary review. The Corner Record or Record of Survey shall incorporate the Engineer's revisions, if any, and be filed with the County Surveyor. The project surveyor shall provide proof of submittal to the County via transmittal or similar documentation. An example can be provided by the City upon request.
- B. Post-Construction
 - A field inspection shall be conducted to identify all monuments (including reference points set in the pre-construction phase) destroyed or disturbed by the improvement project. Monuments and reference points identified as destroyed/disturbed shall be reset in the surface of the new construction and affected monument wells be reconstructed in a manner approved by the City Surveyor. Reference points shall be in compliance with Sections 8771 (a) and 8772 of the Land Surveyor's Act in terms of durability, location, and identification of the Licensed Land Surveyor, Registered Civil Engineer or public agency.
 - 2. A Corner Record or Record of Survey of the monuments and reference points shall be prepared and submitted to the City Surveyor for preliminary review. The Corner Record or Record of Survey shall incorporate the City Surveyor's revisions, if any, and be filed with the County Surveyor. The project surveyor shall provide proof of submittal to the County via transmittal or similar documentation.

5-1.26B PAYMENT

Measurement and Payment for "**Monument Perpetuation**" will be paid as an Each item and includes all costs to perform the required work.

Payment for these items does not include the cost of adjusting survey monument boxes, which is covered under another section.

The estimated quantity for monument perpetuation is for bidding purposes only at an estimated 104 each for the Base Bid. The quantity can be extended, reduced, or deleted at the discretion of the Engineer, with no change in the unit bid price. If monuments are discovered, the Contractor will notify the Engineer for approval of perpetuation. If the Engineer does not approve the monument prior to perpetuation, the Contractor will be responsible for the cost of monument perpetuation.

Replace Section 5-1.28 PROJECT SAFETY REVIEWS of the RSS with:

5-1.28 PROJECT SAFETY SUPERVISOR AND REVIEWS

Contractor's assigned project safety supervisor must perform and document project safety reviews with the Engineer:

<u>Safety Supervisor</u> – The Contractor shall appoint an employee as safety supervisor who is qualified and authorized to supervise and enforce compliance with the Contractor Safety Program. The Contractor shall notify the Engineer in writing prior to the commencement of work of the name of the person who will act as the Contractor's safety supervisor and furnish the safety supervisor's resume to the Engineer.

Contractor will, through and with its Safety Supervisor, ensure that all of its employees and its Subcontractors of any tier, fully comply with the Contractor SafetyProgram. The Safety Supervisor shall be a full-time employee of the Contractor whose responsibility shall be for supervising compliance with applicable safety requirements on the Project site and for developing and implementing safety training classes for all job personnel. The City shall have the authority to require removal of the Contractor's Safety Supervisor if the representative is judged to be improperly or inadequately performing the duties; however, this authority shall not in any way affect the Contractor's sole responsibility for performing this work safely, nor shall it impose any obligation upon the City to ensure the Contractor performs its work safely.

<u>Safety and Protection</u> – Contractor shall take all necessary precautions to prevent damage, injury, and loss to:

- 1. All employees on the Project, employees of all subcontractors, and other persons and organizations who may be affected thereby;
- 2. All the Work and materials and equipment to be incorporated therein, whether in storage on or off the site; and
- 3. Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, wetlands, pavements, roadways, structures, utilities, and underground facilities not designated for removal, relocation, or replacement in the course of construction.

Contractor shall comply with all applicable laws and regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss and shall erect and maintain all necessary safeguards for such safety and protection. The Contractor shall notify property owners of adjacent property and of underground facilities and utility districts when prosecution of the Work may affect them and shall cooperate with them in the protection, removal, relocation, and replacement of their property. All injury or loss to any property caused, directly or indirectly, in whole or in part, by the Contractor, any subcontractor, supplier or any other person or organization directly or indirectly employed by any of them to perform or furnish any of the Work or anyone for whose acts any of them may be liable, shall be remedied by the Contractor.

Your assigned project safety supervisor must perform and document project safety reviews with the Engineer:

- 1. At least 3 business days before the start of job site activities
- 2. Every other week after the start of job site activities and after any incident that results in serious injury, illness, or fatality to your personnel, subcontractor's and supplier's personnel, and any other persons present at the job site at the request of you or your subcontractors
- 3. Submit project safety review documentation to the Engineer and correct deficiencies within three (3) working days from the day the project safety review is completed or sooner as directed by the Engineer

Upon Contract acceptance, your project safety supervisor must participate in a safety meeting with the Engineer.

Replace Section 5-1.29 JOB HAZARD ANALYSIS of the RSS with:

5-1.29 JOB HAZARD ANALYSIS

Contractor Safety Program – The Contractor shall establish, implement, and maintain a written injury prevention program as required by Labor Code Section 6401.7 and CA Code of Regs § 3203(a)(4) and 1511(b). Before beginning the Work, the Contractor shall file with the Engineer a written Contractor Safety Program that provides for the implementation of all of the Contractor's safety responsibilities and a job hazard analysis in connection with the Work at the Project site and the coordination of that program and its associated procedures and precautions with safety programs, precautions and procedures of each of its Subcontractors and other Contractors performing work at the Project site. The Contractor shall be solely responsible for initiating, maintaining, monitoring, coordinating, and supervising all safety programs, precautions, and procedures in connection with the Work and for coordinating its programs, precautions, and procedures of the other Contractors and Subcontractors performing the Work at the Project site. The Contractor Safety Program should contain all the necessary elements for the Contractor to administer its program on the Project site. At a minimum, this written Contractor Safety Program shall address the elements required by Labor Code Section 6401.7 and CA Code of Regs § 3203(a)(4).

Submit each job hazard analysis as an informational submittal. Each job hazard analysis must identify the following:

- 1. Work activity description
- 2. Existing and predictable hazards associated with the work activity
- 3. Hazard control measures, preventative, or corrective actions to be taken for the work activity

Submit each job hazard analysis at least five (5) working days before the start of a work activity. During the project safety reviews required under Section 5-1.28 PROJECT SAFETY SUPERVISOR AND REVIEWS of these Special Provisions, discuss job hazard analyses for active work activities and work activities planned to start within five (5) working days.

Submit a revised job hazard analysis when equipment or methods change results in a change to the hazards previously identified. Submit a revised job hazard analysis within one working day of the identified change.

Add to Section 5-1.32 AREAS FOR USE

Personal vehicles of the Contractor's employees must not be parked on the traveled way or shoulders, including sections closed to traffic.

Add to Section 5-1.36 PROPERTY AND FACILITY PRESERVATION

Contractor shall protect existing pavement, striping, manholes, utilities, sidewalks, curbs, gutter, curb ramps, valley gutters, and driveways at all equipment crossings. The Contractor shall provide materials to shore and brace excavation areas in order to prevent existing structures, private properties and permanent improvements from failure or damage during construction. If requested, provide shoring design calculations and details for review by the Engineer. Damage to existing structures, private properties, and permanent improvements due to construction work conducted by the Contractor shall be restored to existing or better condition with no additional cost to the City.

Add to the list in Section 5-1.36A General:

- 12. Existing hardscape
- 13. Retaining walls
- 14. Trees, shrubs, other plants
- 15. Irrigation facilities

Replace Reserved in Section 5-1.36C(2) with:

The Contractor is responsible for the care and protection of all materials and equipment until the completion and final acceptance of the work.

The Contractor shall provide protection to the project site against trespass, vandalism, or theft during the Maintenance Period. Any damage caused by the lack of adequate site protection shall be repaired or replaced at no additional cost to the City.

Replace Section 5-1.43 POTENTIAL CLAIMS AND DISPUTE RESOLUTION with:

5-1.43 POTENTIAL CLAIMS AND DISPUTE RESOLUTION

NOT USED.

Replace the 2nd paragraph of Section 5-1.46 with:

Immediately following the date the Engineer reports to the City Council as work completed, the Contractor is relieved from:

Add to the end of Section 5-1.46 FINAL INSPECTION AND CONTRACT ACCEPTANCE:

A list of the remaining items (a punch list) will be prepared by the Engineer and given to the Contractor.

All punch list items shall be completed during the contract period. Failure to do so will not be considered an occasion of unavoidable delay. When all items have been completed to the satisfaction of the City Engineer, the project will be submitted to the City Council, which may accept the completed work.

The Contractor shall be responsible for restoring the proposed staging areas, the temporary access road, and any other areas temporarily impacted during construction evaluation to the work prior to the start of work. The project will not be accepted by the City until these areas are restored in kind to the satisfaction of the permits and acceptance of the Engineer. Before any work has begun, Contractor shall review the staging areas and access road with the Engineer to document their existing conditions.

Any paved areas shall be replaced with a structural section equal to or greater than the adjacent paved structural sections.

Any vegetated areas shall be replaced to its existing condition using planting similar to the adjacent undisturbed planting or as directed by the Engineer.

The costs for restoring of staging areas and access roads shall be included in the various items of work associated with this project and no separate payment will be made.

Add to Section 5-1.47 GUARANTEE:

The Contractor hereby agrees to make, at its sole expense, all repairs or replacements necessitated by defects in materials or workmanship, supplied under terms of the Contract Documents, and pay for any damage to other works resulting from such defects, which becomes evident within one (1) year after the date of acceptance of the Project as evidenced by the Notice of Completion recorded by the City. Unless otherwise provided in Contract Documents, the one (1) year warranty period is the shortest duration and such duration may be a longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the Contract Documents. The Contractor further assumes responsibility for a similar guarantee for all work and materials provided by subcontractors or manufacturers of packaged equipment components. The Contractor also agrees to indemnify, defend, and hold the City harmless from liability of any kind arising from damage due to said defects. The Contractor shall repair failed areas in full, from lane line to lane line. All work done on failed areas shall be done in accordance with these Special Provisions and as directed by the Engineer.

The Contractor shall, upon the receipt of notice in writing from the City, promptly make all repairs arising out of defective materials, workmanship, or equipment. The City is hereby authorized to make such repairs, and the Contractor and its surety shall be liable for the cost thereof, if fifteen (15) working days after the City giving of such notice to the Contractor, the Contractor has failed to make or undertake the repairs with due diligence.

In case of emergency, where in the opinion of the City delay could cause serious loss or damage, repairs may be made without notice being sent to the Contractor, and the expense in connection therewith shall be charged to the Contractor, and/or its surety shall be liable for the cost thereof.

Prior to the expiration of the warranty period, the City reserves the right to hold a meeting and require the attendance of the Contractor. The purpose of the meeting is to review warranties, bonds and maintenance requirements and determine required repair or replacement of defective items. For the purpose of this paragraph, acceptance of the Work or a portion of the Work by the City, shall not extinguish any covenant or agreement on the part of the Contractor to be performed or fulfilled under this Contract which has not, in fact, been performed or fulfilled at the time of such acceptance. All covenants and agreements shall continue to be binding on the Contractor until they have been fulfilled.

Nothing in the Contract Documents shall be construed to limit, relieve or release the Contractor's, subcontractor's and/or equipment supplier's liability to the City for damages sustained as the result of latent defects in the equipment furnished or work performed. Further, nothing in the Contract Documents shall be deemed to be a waiver by the City of any rights or remedies, or time limits in which to enforce such rights or remedies, that it may have against the Contractor, subcontractors, suppliers of the equipment and work performed under the Contract Documents.

6 CONTROL OF MATERIALS

Add to the end of Section 6-1.01 GENERAL:

Material testing for this project will be provided by the Contractor as set forth in Section 6 CONTROL OF MATERIALS of the State Standard Specifications and the most current City of Goleta's Quality Assurance Program. The Contractor shall perform all testing to verify compliance with the Specifications of any and all materials furnished by the Contractor. The Contractor shall submit and receive the Engineer's approval of all compliance test results prior to incorporating materials into the project. The Contractor may elect to place material without the approved certificates of compliance and mix designs and shall be at the Contractor's own risk. The Contractor shall notify the Engineer in writing to get the approval of placement, and \$10,000.00 will be withheld from the Contractor's progress payment for each certificate of compliances and mix designs until the certificate of compliances and mix designs are submitted approved.

Samples, certificates of compliance, lists of materials and material sources, access to facilities, requests for testing and all other data relating to material testing shall conform to Section 6 CONTROL OF MATERIALS of the State Standard Specifications. Contractor shall provide the Engineer with five (5) working days' notice of the need for material testing.

Unless otherwise authorized by the Engineer, the substantiation of offers of equivalency must be submitted at the pre-construction meeting.

In the event Contractor furnishes any "or equal" material more expensive than that specified in the bid form, the difference in cost of such material so furnished will be borne by Contractor under Public Contract Code Section 3400.

Along with information supplied by the Contractor regarding equivalency of the proposed item, the Contractor shall clearly identify all deviations from the specified item. Deviations discovered by the Engineer after acceptance of an "or equal" item which were not identified by the Contractor with the submittal shall be cause for rejection of the "or equal" item. Contractor shall be due no additional compensation in time or money for either acceptance or rejection of a proposed "or equal" item and subsequent replacement with the item specified. Contractor shall pay cost to City for analysis of any submittals which requires more than a general review of an "or equal" item. Changes that result from the Contractor's use of "or equal" items shall be the sole responsibility of the Contractor and he shall bear all time and cost impacts to the project.

"Or equal" products may be accepted by the Engineer upon submittal of the following information:

- 1. Product Date Design Criteria
- 2. Physical Properties Limitations of Process
- 3. Material Specifications List of Previous Projects
- 4. Installation Specifications Size of Completed Projects
- 5. Testing Methods List of Current Projects
- 6. Third Party Test Data

- 7. Size of Current Projects
- 8. References (All references must include current names and telephone numbers)
- 9. List of all deviations from the specifications or referenced product or materials

Additional testing may be required, and all costs for testing shall be borne by the Contractor.

Add to the end of Section 6-2.02A General:

Provide a descriptive outline of the Contractor's planned quality control program for this Project. This program would integrate and compliment the testing and inspection requirements found in the Contract Documents. Also describe how quality control would be managed, and by appendix, the resume of the Contractor's proposed QC Manager for this Project. The QC Manager can be the same person as the full-time Project Manager

- 1. <u>Quality Control:</u> All those planned and specified actions or operations necessary to produce a product or service that will meet requirements for quality as specified. Quality Control is the responsibility of the Contractor. The Contractor will monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- 2. <u>Quality Assurance:</u> Those planned and systematic operations conducted to ensure that the operations and/or products incorporated into the project meet the project specifications. Quality Assurance encompasses oversight of the Contractor's Quality Control; verifying the results of Contractor testing; review of sampler, tester and laboratory qualifications; independent assurance sampling and testing, and inspection for conformance with the plans and specifications. Quality Assurance is the responsibility of the Contractor and Engineer.
- 3. Specific quality control requirements for the Work are indicated throughout the Contract Documents. The requirements of this Section are primarily related to performance of the Work beyond furnishing of manufactured products. The term "Quality Control" includes inspection, sampling and testing, and associated requirements.

Quality Control Program:

- Contractor shall develop a detailed written Quality Control (QC) Program for all Work required in the Contract Documents. The Contractor must submit for the Engineer's acceptance the Contractor's Quality Control Program (QC Program) for the entire Project before beginning any of the Work other than mobilization tasks to install temporary facilities. Except for mobilization, no other work will begin until the Engineer has accepted the Contractor's overall QC Program for the project. This QC Program must meet the objectives and requirements as defined herein. The QC Program must be specific to this Project and the Contract Documents.
- 2. In addition, the Contractor must submit for the Engineer's acceptance the Contractor's individual QC Plans before starting each area or division of the Work and/or new specialty trade to complete any portion of the Work. Work

will be permitted to start only after the Engineer reviews and accepts Contractor's individual QC Plan. The individual QC Plans must identify all QC personnel, procedures, inspections, laboratories, testing equipment calibrations and certifications, tests, inspection/test hold points, instructions, sampling and testing records organized by date and type of material, reports, records, schedules, etc. specific for each area or division of the Work and/or new specialty trade to complete any portion of the Work.

- Contractor shall appoint a full time QC Officer who will have the sole responsibility for the full-time oversight, implementation, and monitoring of the QC Program on this one project. Contractor shall maintain a log of required testing indicating the tests or sampling and test method required, location, frequency and responsibility.
- 4. Contractor shall provide written procedures defining methods of construction, control measures, and the performance of inspections and testing for the different types of Work.
- 5. Procedures shall detail "Hold Points," where Work shall not proceed until the required Quality Control functions are performed and documentation shows the Work meets the requirements of the Contract.
- 6. Procedures shall detail problem resolution steps and corrective actions in the event the Work does not meet the Contract Specifications.
- 7. Procedures shall be provided for all major activities of Work.
- 8. Contractor shall maintain evidence of activities affecting quality, including operating logs, records of inspections and tests, audit reports, material analyses, personnel qualification and certification records, procedures, and document review records.
- 9. Quality records shall be maintained in a manner that provides for timely retrieval, and traceability. Quality records shall be protected from deterioration, damage, or destruction.
- 10. Within 24 hours, notify the Engineer of any noncompliance identified by your QC program. The Contractor shall provide the City access to all QC records.
- 11. Submit QC test data and QC test results within two (2) working days of test completion.

Sampling and Testing

- 1. Certified Test Reports:
 - a. When transcripts or certified test reports are required by the Contract Documents, Contractor shall, before delivery of Materials or Equipment
 - 1) Perform all testing in an approved independent laboratory or the manufacturer's laboratory.
 - 2) Submit for approval reports of shop tests within 30 days of testing.
 - 3) Certificates shall be submitted in the form of a letter stating 1

or more of the following:

- a) Manufacturer has performed all required tests.
- b) Materials to be supplied meet all test requirements.
- c) Tests were performed not more than 1 year prior to submittal of the certificate.
- d) Materials and Equipment subjected to the tests are of the same quality, manufacture, and make as those specified.
- e) Identification of the materials.
- 2. Manufacturer's Certificates:
 - a. All Equipment shall be installed under either the continuous or periodic supervision of the manufacturer's authorized representative.
 - b. Manufacturer shall certify that Equipment Perform all testing in an approved independent laboratory or the manufacturer's laboratory.
 - 1) Has been adjusted and initially operated in the presence of the manufacturer's authorized representative
 - 2) Operates in accordance with the specified requirements to the manufacturer's satisfaction.

Inspection and Testing Service

- 1. Unless otherwise indicated, all products, materials, and equipment shall be subject to inspection by the Engineer at the place of manufacture as specified in this bid document.
- 2. The City or an independent firm retained by the City will perform inspections, testing, and other services as required by the Engineer.
 - a. The Contractor shall cooperate with the Engineer or independent firm and furnish samples of materials, design mix, equipment, tools, storage, and assistance as requested.
 - b. The Contractor shall notify Engineer three (3) working days prior to the expected time for operations requiring inspection and laboratory testing services.
 - c. Retesting required because of non-conformance to requirements shall be performed by the same independent firm on instructions by the Engineer. The Contractor shall be responsible for all costs including administrative, material testing, design and, engineering activities directly related to such retesting.

Installation

- 1. Inspection: The Contractor shall inspect materials or equipment upon the arrival on the job site and immediately prior to installation and reject damaged and defective items.
- 2. Measurements: The Contractor shall verify measurements and dimensions of the Work, as an integral step of starting each

installation.

- 3. Manufacturer's Instructions: Where installations include manufactured products, the Contractor shall comply with manufacturer's applicable instructions and recommendations for installation, to whatever extent these are more explicit or more stringent than applicable requirements indicated in Contract Documents.
- a. When manufacturers' instructions conflict with Contract Documents, request clarification from Engineer before proceeding.

Full compensation for conforming to all requirements specified in Section 6 CONTROL OF MATERIALS of these Special Provisions shall be considered as included in the contract price paid for other items of work and no additional compensation will be allowed.

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7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Add to Section 7-1.02I(2) Nondiscrimination:

In Attention is directed to the following Notice that is required by Chapter 5 of Division 4 of Title 2, California Code of Regulations.

NOTICE OF REQUIREMENT FOR NONDISCRIMINATION PROGRAM (GOV. CODE, SECTION 12990)

The Contractor's attention is called to the "Nondiscrimination Clause", set forth in Section 71.01A(4), "Labor Nondiscrimination," of the State Standard Specifications, which is applicable to all nonexempt state contracts and subcontracts, and to the "Standard California Nondiscrimination Construction Contract Specifications" set forth therein. The Specifications are applicable to all nonexempt state construction contracts and subcontracts of \$5,000 or more.

Add Section 7-1.02I(3) Nondiscrimination Statement: 7-1.02I(3) Nondiscrimination Statement

The contractor, subrecipient or subcontractor will never exclude any person from participation in, deny any person the benefits of, or otherwise discriminate against anyone in connection with the award and performance of any contract covered by 49 CFR 26 on the basis of race, color, sex, or national origin.

Replace the 1st item in the list of the 2nd paragraph of Section 7-1.02K(2) Wages with:

1. At the City's Office

Add to Section 7-1.02K(2) Wages:

The possibility of wage increases is one of the elements to be considered by the Contractor in determining the bid, and will not under any circumstances be considered as the basis of a claim against the City on the contract.

The general prevailing wage rates determined by the Director of Industrial Relations, for the county or counties in which the work is to be done, are available at the City of Goleta, 130 Cremona Drive, Suite B, Goleta, CA 93117. These wage rates are not included in the Proposal and Contract for the project. Changes, if any, to the general prevailing wage rates will be available at the same location.

Payment of prevailing wage must be documented through submission of certified payroll records for the prime Contractor and lower tier Subcontractors. Redacted certified payroll records will be submitted and reviewed through CMIS.

Add to Section 7-1.02K(5) Working Hours:

7-1.02K(5) Working Hours

When school is in session, the Engineer may adjust regular working hours to coincide with the school's operational hours. Working hours are Monday through Friday, 8:00 AM-6:00 PM.

All work on major arterials and at major intersections will be restricted or prohibited during the daytime as listed in Appendix D and shall be conducted between 8:00 PM and 6:00 AM.

All work in the following commercial zones is prohibited between November 15 and January 2: Hollister Avenue between Pacific Oaks Road and Cortona Drive; Storke Road between the 101 Freeway and Market Place Drive; Hollister Avenue between Fairview Avenue and Patterson Avenue; Fairview Avenue between Shirrell Way and Carson Street; and Calle Real between Vega Street and Kellogg Avenue.

If the Engineer approves overtime work, the City shall make deductions in the contractor progress payment. The Contractor shall reimburse the City as outlined in Section 5-1.08 INSPECTION of these Special Provisions for the actual cost of all inspection cost for work requested outside of the contract working hours, Saturday and Sunday work, or inspection performed during designated City, State, or Federal holidays.

Requests for authorization to perform work outside the hours listed above shall be made in writing to the Engineer at least seventy-two (72) hours in advance.

Designated City holidays are: New Year's Day (January 1st), Martin Luther King Day (third Monday in January), President's Day (third Monday in February), Memorial Day (last Monday in May), Juneteenth (June 19th) Independence Day (July 4th), Labor Day (first Monday in September), Veteran's Day (November 11th), Thanksgiving Day (fourth Thursday in November), day after Thanksgiving Day (fourth Friday in November), Christmas Eve (December 24th), Christmas Day (December 25th), and New Year's (Eve December 31). When a designated holiday falls on a Saturday or Sunday, the preceding Friday or following Monday (respectfully) shall be a designated holiday.

Replace *Reserved* in Section 7-1.02P with:

The Contractor shall submit Federal Aviation Administration (FAA) form 7460-1. The Contractor shall comply with the FAA regulations including marking, lighting, and height restrictions. The form is located at the following website:

https://www.faa.gov/documentLibrary/media/Form/FAA_Form_7460-1_2017.pdf

Anticipate a height restriction of 100 ft above ground level and 129 ft above mean sea level. A draft of the FAA letter is provided as supplemental information.

The Contractor is responsible for filing a Notice of Alteration (FAA Form 7460-1) with the Federal Aviation Administration of any construction activity that would require notification. The City has determined that the permanent alterations are exempt from notification

under section 77.9(a)(1) and 77.9(e)(1) as listed on the Form 7460-1 instructions

Add to the end of Section 7-1.03 PUBLIC CONVENIENCE:

Contractor shall notify the affected residents and businesses five (5) calendar days in advance of the start of work. Notification shall be done by using "door knob" type notices which shall include a description of the impending work, the date and time when traffic will be restricted, a date and time when parking will not be allowed along the street scheduled for renovation and forty-eight (48) hour window of "no landscape irrigation" prior to work. Contractor's representative name and phone number, City representative name and phone number, along with any other information requested by Engineer. A sample of the required notification is located within Appendix E of these Special Provisions.

Ten (10) calendar days prior to beginning construction, Contractor shall assist in notifying local schools, hospitals, ambulance services, police and fire departments, transit agencies, refuse collectors and Underground Service Alert (USA) of its schedule of work.

Such notices must be prepared and printed by Contractor, reviewed & approved by Engineer, and must be served by Contractor's representative in person to each residence and business. Failure of Contractor to properly serve such notices will be cause for suspension of work until compliance with this requirement is achieved and shall result in \$300 per street per occurrence withheld from Contractor's progress payment. No extension of time will be allowed to Contractor for lost time due to his failure to distribute such notices in a timely manner or from suspension of work due to non-compliance. Contractor must document delivery of notices by providing an e-mailed list of locations where notices were delivered including the date and time of completion, by the end of the day of delivery. Contractor must also e-mail a minimum of five clear photos (2-megapixel) showing completion of the delivery and parking restriction signs for each street notified. Contractor must send e-mail to an e-mail address as directed by Engineer.

If for any reason the work is delayed or rescheduled after the required notifications have been issued, the Contractor shall re-date the signs affected, notify residents and businesses of the change via a new "door knob" notice, and re-contact the local services and agencies. If the work is delayed more than five (5) calendar days, the Contractor shall remove the signs and place re-dated signs two working days (four calendar days prior to work beginning on a Monday or Tuesday) in advance of the work. Contractor is responsible for and must deliver public notification for all phases of the work. Contractor must submit for approval all notices for content and delivery schedule two weeks prior to actual delivery.

Contractor shall furnish and place "No Parking" signs, 12 inches by 18 inches minimum size and approved by the Engineer, throughout the area of work at fifty-foot intervals two (2) working days (four (4) calendar days prior to work beginning on a Monday or Tuesday) prior to the start of construction. In rural areas, the signs shall be placed at intervals not to exceed 400 feet. The signs shall include the date and time during which parking is prohibited. A sample of the temporary "No Parking" signs is located within Appendix F of these Special Provisions. Failure to place "No Parking" signs shall result in \$300 per street

per occurrence withheld from Contractor's progress payment The Contractor shall remove these signs immediately when they are no longer needed. The signs shall post the city ordinance referencing towing of vehicles illegally parked.

Replace the 13th paragraph of Section 7-1.04 PUBLIC SAFETY with:

Equipment must enter and leave the highway via existing ramps and crossovers and must move in the direction of traffic. All movements of workers and construction equipment on or across lanes open to traffic must be performed in a manner that do not endanger the public. The Contractor's vehicles or other mobile equipment leaving an open traffic lane to enter the construction area must slow down gradually in advance of the location of the turnoff to give the traffic following an opportunity to slow down. When leaving a work area and entering a roadway carrying traffic, the Contractor's vehicles and equipment must yield to traffic. Compensation for flaggers, used for all movement of workers and construction vehicles and equipment on or across lanes open to traffic, is included in the bid items of work involved.

Add to Section 7-1.04 PUBLIC SAFETY:

7-1.04 PUBLIC SAFETY

In addition to the requirements of Section 7-1.04 PUBLIC SAFETY of the State Standard Specifications, the Contractor shall cooperate with and notify the local police and fire departments, school districts, Refuse, ambulance services, and Public Works Street Division of proposed construction operations two (2) working days before work is to begin.

The Contractor shall be responsible to notify and coordinate their schedule with schools that may be in or adjacent to the projects area.

All work must be coordinated with the Traffic Control Plan, Project Schedule, Contract Period, Submittals and other requirements of these Contract Documents.

Contractor must maintain a minimum of one lane, not less than 12 feet wide, in each direction of travel at all times.

All movements at intersections must be maintained.

No lanes may be closed outside of working hours.

To allow for adequate intersection inspection of the work by City and minimize impacts on surrounding neighborhoods the following contract items shall have the hours of work restricted as follows:

- 1. <u>Various items of concrete construction</u>: No concrete shall be delivered prior to 8:00 a.m. and all concrete shall be placed prior to 3:00 p.m.
- 2. <u>Early morning activities</u>: No heavy construction activities or motorized or electric equipment shall be used prior to 8:00 a.m.
- 3. Certain <u>streets near schools require work hour restrictions:</u> The streets shown in Appendix G "School Zone Work Hour Restriction Map" and their

associated schools are listed below. Contractor shall coordinate work in school zones by notifying schools and Engineer two weeks in advance of construction and not performing work during the restricted hours. Contractor shall not perform any work on the streets identified in the "School Zone Work Hour Restriction Map" before 8:30 a.m. and from 2:30 p.m. to 3:30 p.m.

- 4. Contractor may request exceptions by submitting a traffic control plan to Engineer for approval that shows that school pedestrians, bicycles, and vehicular traffic will not be adversely affected by the work. Requested exception does not guarantee excepted work will be allowed.
 - i. Elementary Schools:
 - Brandon School 195 Brandon Drive; (805) 571-3770
 - Ellwood 7686 Hollister Avenue; (805) 571-3774
 - Kellogg 475 North Cambridge Drive; (805) 681-1277
 - La Patera 555 North La Patera Lane; (805) 681-1280
 - ii. Middle School
 - Goleta Valley 6100 Stow Canyon Road; (805) 967-3486
 - iii. Junior High School
 - Goleta Valley 6100 Stow Canyon Road; (805) 967-3486
 - iv. High School
 - Dos Pueblos 7266 Alameda Avenue; (805) 968-2541

Full compensation for conforming to the requirements of this Section shall be considered as included in the prices paid for the various contract items of work involved and no additional compensation will be allowed therefor.

Replace *Reserved* in Section 7-1.10 PERMITS AND LICENSES with:

7-1.10 PERMITS AND LICENSES

The Contractor shall obtain a business license from the City of Goleta prior to performing the work.

The Contractor may use water from Goleta Water District fire hydrants provided that the required permits are obtained and the Contractor has paid the associated fees.

Full compensation for conforming to all requirements specified in this section shall be considered as included in the contract price paid for other items of work and no additional compensation will be allowed therefor.

Right of Way

A. Contractor shall not be entitled to the exclusive use of any public street or rightsof-way during the performance of the work under the contract, and Contractor must conduct operations so as not to interfere unnecessarily with business, traffic, pedestrians, and the authorized work of utility companies or other agencies in the street or rights-of-way. Neither the Specifications nor the Plans may be construed to entitle Contractor to conduct operations within the rights-of-way which are in violation of any local, county, or state ordinance or regulation restricting interference with water courses and drainage channels. Contractor must take adequate precautions against obstructing storm water flow within the project limits. Contractor may not deposit excavated materials, store equipment or construction materials within the street.

Add Section 7-1.12 COOPERATION:

7-1.12 COOPERATION

The Contractor shall cooperate with other forces constructing, relocating, and/or modifying facilities within the project limits. The Contractor shall coordinate his work with that of others, including utility companies, to prevent delays.

It is understood and agreed that the Contractor has considered in his bid all of the permanent and temporary utility appurtenances in their present and/or relocated positions as shown on the plans or as described in the specifications, and that no additional compensation will be allowed for any delays, inconvenience, or damages sustained due to any interference from said appurtenances or the operation of moving them. In addition, the Contractor shall not be allowed any additional compensation for delays of inconvenience sustained by the Contractor due to the City not having City-supplied equipment ready for pick-up. In such a case, the City may increase the number of working days for the contract.

Five (5) working days prior to beginning work, the Contractor shall provide to the Engineer, in writing, the name and telephone number of a representative who is directly involved with this project, and under the supervision of the Contractor. The Contractor's representative may be contacted by City staff during non-working hours including nights, weekends and holidays in the case of any public inconvenience and/or emergency relating to the Contractor's operations. The Contractor must address the public inconvenience and/or emergency within two (2) hours of notifications. Failure to address the public inconvenience and/or emergency within two (2) hours shall result in the amount of \$500 per hour for each hour thereof withheld from Contractor's progress payment. The contact representative shall not be replaced by another company employee for the duration of the project without a written explanation from the Contractor which has been approved by the Engineer. Should a new representative be used, he/she shall be knowledgeable of the project, the events, and/or revisions that may be occurring.

Full compensation for conforming to the requirements of this Section shall be considered as included in the prices paid for the various contract items of work involved and no additional compensation will be allowed therefor.

Add Section 7-1.13 RIGHTS AND LAND IMPROVEMENTS:

7-1.13 RIGHTS IN LAND AND IMPROVEMENTS

The Contractor is responsible for making arrangements to stockpile and store equipment outside the public right of way as work is performed. Personal vehicles of the Contractor's employees shall not be parked on the traveled way or shoulders, private property, including any Section closed to public traffic.

The Contractor shall secure easements at their own expense for any areas required for plant sites, storage of equipment or materials, or for any other purposes. Before occupying any easement area, the Contractor shall provide the Engineer a written statement from each property owner verifying easement acquisition.

Staging areas located on private property shall be restricted to properties where the property owner has given written authorization to the Contractor for use of said property. The Contractor shall submit, at the Pre-Construction meeting, documentation of the written authorization from the property owner(s). Prior to final acceptance of the project, the Contractor shall provide the Engineer a written statement of release from each property owner that granted an easement for the Contractor's operations.

If the Contractor elects to use City Right-of-Way for staging areas, a written request must be submitted to the Engineer, and written authorization must be obtained prior to use. The City reserves the right to charge the Contractor for the use of City Right-of-Way for stockpiling materials and storing equipment. Unauthorized use of City Right-of-Way by the Contractor without prior written approval will result in a fine of \$1,000 per occurrence, which will be deducted from the Contractor's progress payments.

Full compensation for conforming to all requirements specified in this Section shall be considered as included in the contract price paid for various items of work and no additional compensation will be allowed.

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8 PROSECUTION AND PROGRESS

Add the following to Section 8-1.01 GENERAL:

Weekly meetings will be held at the job site to discuss interfacing work, scheduling, problems, issues, and other issues related to the project. The meeting will have duration of approximately one hour. The meeting shall be held on the same working day of each week and at the same time of the day as mutually agreed to by Engineer and the Contractor. If not previously submitted, submit the following to the Engineer at the beginning of the meeting:

- 1. Daily workforce and equipment utilization and certified payroll for the preceding week; and
- 2. Projected daily work for the next three (3) weeks, in writing using computer software programs; no handwritten schedule will be accepted.

The meeting must include, at a minimum:

- 1. The Engineer;
- 2. Inspectors;
- 3. Utility Representatives
- 4. Contractor Foreman; and
- 5. The Contractors Responsible Scheduling Person.

In addition to daily reports required to substantiate the costs of claims and changes performed as force account work and for Disputed Work pursuant to Section 5-1.24 CONTRACTOR'S DAILY REPORTS of these Special Provisions, the Contractor must complete a daily report indicating locations worked, start/finish and milestone dates, total workforce per construction trade for each task, major equipment on site, Contractor's workforce and equipment, each Subcontractor's workforce and equipment, materials delivered, weather conditions, safety (meetings, inspections, accidents, OSHA citations, actions taken) quality (meetings, inspections, tests), visitors, problems encountered, shortages, delays to planned progress, and any other related information involved in the performance of the work. The daily report must be completed on forms furnished to the Contractor, and submitted as described in Section 5-1.24 CONTRACTOR'S DAILY REPORTS of these Special Provisions. The report must comment on the daily progress and status of the work within each major component of the work.

No progress payments will be made prior to submission and acceptance of the Schedule by the Engineer.

Replace Reserved in Section 8-1.02C(3)(b) with:

8-1.02C(3)(b) Schedule Software Licenses

The Contractor shall provide one licensed copy of the Microsoft Project scheduling software program used to produce the Contractor's Schedule to the Engineer, registered in the Engineer's name. This licensed copy must be provided no later than five (5) working

days after the NTP date and shall be fully licensed for the project duration and for six (6) months after the NOC date.

Replace Section 8-1.02C(10) Payment of the RSS with:

8-1.02C(10) Payment

Full compensation for conforming to all requirements specified in this Section, "CPM," shall be considered as included in the contract price paid for other items of work and no additional compensation will be allowed.

Add to the end of Section 8-1.03 PRECONSTRUCTION CONFERENCE

Prior to the start of construction, a preconstruction conference will be called by the Engineer for the purpose of discussing with the Contractor the scope of work, contract drawings, specifications, existing conditions, materials to be tested, equipment to be used, and all essential matters pertaining to the prosecution and the satisfactory completion of the project as required. The Contractor's representative at this conference shall include all major superintendents for the work and may include major Subcontractors and material suppliers.

Submit the following items to the Engineer for review at least five (5) working days prior to the preconstruction conference. Issuance of a NTP is dependent on the timelines and the proper level of detail of these submittals. Submittals shall include, but are not limited to:

- 1. Key Personnel, Telephone Numbers and Emergency Telephone Numbers
- 2. Project Construction Schedule per specifications
- 3. Public Notices (i.e. Notifications and Door Hangers)
- 4. Storage Site Locations
- 5. Traffic Control Plan / Detour Plans
- 6. Parking Restriction Signs
- 7. Noise mitigation measures
- 8. Dust Control measures
- 9. Waste Disposal Plan
- 10. Copies of pertinent permits, licenses, certifications or required approvals, per specifications
- 11. Required Inspections
- 12. Finalized SWPPP
- 13. Contractor Safety Program
- 14. Contractor's Quality Control Program

Replace *Reserved* in Section 8-1.04A with:

8-1.04A GENERAL

Attention is directed to the provisions in Section 8-1.05 TIME and Section 8-1.10 LIQUIDATED DAMAGES of the State Standard Specifications and these Special

Provisions. In addition to Section 8 PROSECUTION AND PROGRESS of the State Standard Specifications, the following shall apply:

All base bid work shall be completed within **75 working days** from the date of the Notice to Proceed. The following working days will be added for each selected bid alternative.

- 1. Bid Alternative 1: 20 working days
- 2. Bid Alternative 2: 5 working days
- 3. Bid Alternative 3: 10 working days
- 4. Bid Alternative 4: 5 working days
- 5. Bid Alternative 5: 15 working days
- 6. Bid Alternative 6: 20 working days

All punch list items shall be completed within the specified contract working days. The project will not be accepted until all punch list items are completed.

The Contractor shall pay the City a sum per day as outlined in Section 8-1.10 LIQUIDATED DAMAGES of these Special Provisions, for each and every calendar days' delay in finishing the work in excess of the number of working days prescribed above.

The Contractor shall be responsible to coordinate utilities relocations within the project area. Coordination of utilities within the project limits, including relocations and maintenance of existing facilities and additions thereto, shall be confirmed in writing by utility representatives and the Contractor at this conference or within five (5) working days thereafter.

NOTICE TO PROCEED

The Contractor shall begin work within fifteen (15) calendar days from the date of a "Notice to Proceed" letter, and the Contractor shall thereafter diligently prosecute the work to completion.

The Contractor shall notify the Director, in writing, of his or her intent to commence work at least seventy-two (72) hours before work is to begin. The notice shall specify the date on which the Contractor intends to begin work. If a project has more than one (1) location of work, a separate notice shall be given for each location.

Should the Contractor begin work in advance of issuance a "Notice to Proceed," any

work performed in advance of such issuance shall be considered to have been done at

Contractor's own risk and as a volunteer.

Notwithstanding any other provision of the contract, City shall not be obligated to accept or to pay for any work furnished by the Contractor prior to delivery of notice to proceed whether or not the City has knowledge of the furnishing of such work.

Submit no less than ten (10) days in advance of the commencement of the proposed work:

- 1. Specific date, hours and location of work;
- 2. Complete description of work to be done;

- 3. Number and type of equipment to be used;
- 4. Noise mitigation measures to be employed;
- 5. Distance of the nearest resident to the work;
- 6. Job Hazard Analysis and;
- 7. Inspection required.

Replace Section 8-1.04B Standard Start with:

8-1.04B START OF JOB SITE ACTIVITIES

Contractor shall not begin any job site activities until the Notice to Proceed is issued. Notify the Engineer seventy-two (72) hours in advance of commencing job site activities.

Add to Section 8-1.05 TIME:

Contractor shall diligently prosecute the work to completion in accordance with the following schedule.

All work shall be completed within working days outlined in Section 8-1.04A GENERAL of these Special Provisions.

A punch list will be created after all bid items have been completed by the Contractor and it shall be the Contractor's responsibility to notify the Engineer in writing that all bid items have been completed. All punch list items shall be completed within the specified contract working days. The project will not be accepted until all punch list items has been completed.

A sample of the weekly statement of working days is in Appendix H. You must use the most recent Caltrans weekly statement of working days which can be downloaded at <u>https://dot.ca.gov/programs/construction/contract-time</u>.

Add to the end of Section 8-1.06 SUSPENSIONS:

Responsibilities of Contractor During Suspension Periods

During periods that Work is suspended, Contractor shall continue to be responsible for the Work and shall prevent damage or injury to the project, provide for drainage, and shall erect necessary temporary structures, signs, or other facilities required to maintain the project and public safety and continue to perform in accordance with the safety requirements of the Contract Documents.

Add Section 8-1.06A:

8-1.06A SUSPENSIONS OF WORK ORDERED BY THE ENGINEER

 If the performance of all or any portion of the work is suspended or delayed by the engineer in writing for an unreasonable period of time (not originally anticipated, customary, or inherent to the construction industry) and the Contractor believes that additional compensation and/or contract time is due as a result of such suspension or delay, the Contractor shall submit to the Engineer in writing a request for adjustment within seven (7) calendar days of receipt of the notice to resume work. The request shall set forth the reasons and support for such adjustment.

- 2. Upon receipt, the Engineer will evaluate the Contractor's request. If the Engineer agrees that the cost and/or time required for the performance of the contract has increased as a result of such suspension and the suspension was caused by conditions beyond the control of and not the fault of the Contractor, its suppliers, or subcontractors at any approved tier, and not caused by weather, the Engineer will make an adjustment (excluding profit) and modify the contract in writing accordingly. The Contractor will be notified of the Engineer's determination whether or not an adjustment of the contract is warranted.
- 3. No contract adjustment will be allowed unless the Contractor has submitted the request for adjustment within the time prescribed.
- 4. No contract adjustment will be allowed under this clause to the extent that performance would have been suspended or delayed by any other cause, or for which an adjustment is provided or excluded under any other term or condition of this contract.

Add to the end of Section 8-1.07B Time Adjustments:

If the Engineer grants an adjustment in time for avoidable delay, the City shall have the right and authority to make deductions in payments due or to become due to the Contractor as the City may deem just and reasonable for engineering, inspection, general supervision and overhead expenses.

8-1.07B(1) Delays to Critical Path

Extensions of time, when granted, will be based upon the effect of delays to the critical path of the Work as a whole and will not be granted for non-controlling delays to included portions of Work unless it can be shown that such delays did, in fact, delay the progress of the Work as a whole.

8-1.07B(2) Conditions to Time Extensions

The Contract Time or Milestones shall be extended only if, in the opinion of City, the Contractor is necessarily delayed in completing the Contract by a cause that meets all of the following conditions:

- 1. Such cause is beyond the control of Contractor, its Subcontractors, or material suppliers and is not due, in whole or in part, to the breach, negligence or fault of Contractor, its Subcontractors, or material suppliers;
- 2. Such cause arises after the Bid deadline and neither was nor could have been anticipated before the Bid deadline;
- 3. The effect of such cause could not be anticipated and avoided or mitigated by the exercise of all reasonable precautions, efforts and measures by the Contractor, including re-planning, scheduling and re-sequencing;
- 4. Such cause, in fact, results in a delay in the performance of the critical path of the Work, which is not thereon thereafter recovered;
- 5. Contractor has given notice thereof and provided the back-up documentation and analysis as required by the Contract Documents or as requested by the Engineer or City including but not limited to as-planned versus as-built schedules; and

6. The Contractor has exercised all reasonable precautions, efforts and measures to accomplish such changes in the Work without extending the date for completion.

8-1.07B(3) Excusable Non-Compensable Delay

The Parties acknowledge that "Force Majeure" events, as defined in Section 1-1.07B GLOSSARY of the State Standard Specifications, are not within the responsibility or control of the City or are reasonably contemplated by the Parties to occur during the course of performance of the Work, which may impact the schedule for performance of the Work and may entitle Contractor to an extension of the Contract Time ("Excusable Non-Compensable Delays"). If the Critical Path of the Work is delayed by Excusable Non-Compensable Delays, provided that such delays did not result from the acts of Contractor and further provided that Contractor takes reasonable precautions to prevent further delays owing to such causes, then the Contract Time and/or Milestones shall be extended by a Contract Change Order.

An extension to the Contract Time and/or to the completion Milestone(s) identified in the Contract Documents shall be the Contractor's sole remedy for Excusable Non-Compensable Delays. In no event shall Contractor be entitled to any compensation or recovery of any damages in connection with the Excusable Non-Compensable Delays defined above.

8-1.07B(4) Excusable Compensable Delay

"Excusable Compensable Delay" means any delay to the critical path of the Work occurring after commencement and prior to completion of the Work:

- 1. which directly impacts the number of Working Days established in the Agreement for completion;
- 2. for which City is responsible, is unreasonable under the circumstances involved, and not within the contemplation of the Parties; and
- 3. is not due, in whole or in part, to the breach, negligence, or fault of Contractor, its Subcontractors, or Suppliers. Contractor's remedy for Excusable Compensable Delay shall be extension of the date for completion and Milestones subject to the Conditions to Time

Extensions identified above and reimbursement of actual costs directly resulting from such delays and markup in accordance with Section 9 PAYMENT of the State Standard Specifications.

8-1.07B(5) Inexcusable Delay

"Inexcusable Delay" means any delay in the critical path of activities required for completion of the Work resulting from causes other than those deemed to be an Excusable Non-Compensable Delay or an Excusable Compensable Delay by these Special Provisions. An Inexcusable Delay shall not entitle Contractor to either an extension of the date for completion or Milestones or to any additional compensation whatsoever.

8-1.07B(6) Concurrent Delays

To the extent the Contractor is entitled to an extension of time due to an Excusable Non-Compensable Delay or to an Excusable Compensable Delay, but the performance of the Work is independently suspended, delayed, or interrupted by an Inexcusable Delay, the delay shall be deemed to be a "Concurrent Delay."

In the case of a Concurrent Delay, Contractor shall be entitled to an extension of the Contract Time or Milestone(s) and Contractor shall not be entitled to any additional compensation whatsoever during the period of Concurrent Delay.

8-1.07B(7) CLAIM FOR ADDITIONAL TIME

Any claim for extension of time shall be made in writing within the time limits provided in Section 5-1.43 POTENTIAL CLAIMS AND DISPUTE RESOLUTION of these Special Provisions. Within ten (10) calendar days after commencement of such delay the Contractor shall furnish the Engineer with detailed information concerning the circumstances of the delay, the number of days actually delayed, the appropriate Contract Document references, and the measures taken to prevent or minimize the delay including an as-planned versus as-built schedule. The Contractor acknowledges the extreme importance of promptly notifying and thoroughly documenting any request for time extension and further specifically acknowledges that the City will suffer extreme prejudice should Contractor fail in any way to comply with this requirement.

8-1.07B(8) Limits on Adjustment of Contract Time or Contract Sum for Material Shortages or Cost Escalation

No extension of Contract Time or adjustment of the Contract Price will be granted for a delay caused by a shortage of materials, unless the Contractor furnishes to the City documented proof that the Contractor has diligently made every effort to obtain such materials from every known source within reasonable reach of the Work. The Contractor shall also submit proof, in the form of network analysis data that the inability to obtain such materials when originally planned did, in fact, cause a delay in completion of the Work which could not be compensated for by revising the sequence of operations. Only the physical shortage of material will be considered under these provisions as a cause for extension of time. No consideration will be given to any claim for adjustment of the Contract Price on the basis that material could not be obtained at a reasonable, practical, or economical cost except as provided in 9-1.07 PAYMENT ADJUSTMENTS FOR PRICE INDEX FLUCTUATIONS of the State Standard Specifications.

Contractor is aware that governmental agencies, such as gas companies, electrical utility companies, water districts and other agencies, may be required to approve Contractorprepared drawings or approve a proposed installation. Contractor has endeavored to include the cost of such anticipated delays and related costs which may be caused by such agencies in Contractor's Bid. Thus, Contractor is not entitled to make claim upon the City for damages or delays arising from the delays caused by such agencies. Furthermore, the Contractor has scheduled for such delays and is not entitled to an extension of time for delays caused by governmental agencies which Contractor must obtain approvals from. No extension of time will be granted under this Section 8-1.07B LIMITS ON ADJUSTMENT OF CONTRACT TIME OR CONTRACT SUM FOR MATERIAL SHORTAGES OR COST ESCALATION of these Special Provisions for any delay to the extent: (1) that performance would have been so delayed by any Contractor induced causes, including but not limited to the fault or negligence of the Contractor or its Subcontractors; or (2) for which any remedies are provided for or excluded by any other provision of the Contract.

8-1.07B(9) No Release of Sureties

An extension of time granted shall not release the sureties from their obligations. Work shall continue and be carried on in accordance with all the provisions of the Contract and the Contract shall be and shall remain in full force and effect during the continuance and until the completion and the City's final acceptance of the Work covered by this Contract unless formally suspended or annulled in accordance with the terms of the Contract Documents.

8-1.07B(10) No Waiver by City

Neither the grant of an extension of time beyond the date fixed for the completion of any part of the Work nor the doing and acceptance of any part of the Work or materials specified by this Contract after the time specified for the completion of the Work, shall be deemed to be a waiver of any other rights and remedies under the Contract.

8-1.07B(11) City's Right to Order Extraordinary Measures to Mitigate Delay

In the event of delays to the project, the Engineer may order Extraordinary Measures as provided below.

8-1.07B(11)(a) Non-Compensable Extraordinary Measures

In the event the Engineer determines that the performance of the Work, or any portion thereof, has not progressed or reached the level of completion required by the Contract Documents due to causes within the control of Contractor, the Engineer shall have the right to order the Contractor to take corrective measures necessary to expedite the progress of construction, including, without limitation, (1) working additional shifts or overtime, (2) supplying additional workforce, equipment, and facilities, and (3) submitting a recovery schedule for re-sequencing performance of the Work or other similar measures (hereinafter referred to collectively as Extraordinary Measures). Such Extraordinary Measures shall continue until the progress of the Work complies with the stage of completion as required by the Contract Documents. The Contractor shall not be entitled to an adjustment in the Contract Price in connection with the Extraordinary Measures required by the City under or pursuant to this Section. The City may exercise the rights furnished the City under or pursuant to this Section as frequently as the City deems necessary to ensure that the Contractor's performance of the Work will comply with the Contract Time, or interim completion date set forth in the Contract Documents. If Contractor or its Subcontractors fail to commence Extraordinary Measures within forty-eight (48) hours of City's written demand, the City may, without prejudice to other remedies, take corrective action at the expense of Contractor.

8-1.07B(11)(b) Compensable Extraordinary Measures

The Engineer, in its discretion, may issue a written request, to the Contractor requesting Contractor to submit an itemized proposal for Extraordinary Measures in order to achieve early completion of all or a portion of the Work, due to no fault of the Contractor, in a form acceptable to the City within ten (10) calendar days after the City's issuance of the request. Contractor's proposal shall be limited to direct labor cost (itemized hours and rates) and overhead and profit on the labor costs.

8-1.07B(12) Continuation of the Work

If the construction of the Work is not completed within the Contract Time, as may be extended by the City, the Contractor shall continue performing the Work in accordance with the Contract Documents until the completion of and the acceptance of the Work, or Contractor's performance is suspended or terminated.

Replace the 2nd paragraph of Section 8-1.07C Payment Adjustments with:

Losses for idle equipment, idle workers, and moving or transporting equipment are eligible for delay- related payment adjustments.

If the Contractor claims additional costs due to impacts from an excusable delay, the Contractor must comply with Section 5-1.42 REQUESTS FOR INFORMATION of the State Standard Specifications. Support the Contractor's claim for additional costs based on the difference between the cost to perform the work as planned and the cost to perform the work as changed as determined under section 9-1.04 FORCE ACCOUNT of the State Standard Specifications. The City adjusts payment for the work portion that was impacted.

The Contractor may schedule completion of all of the Work, or portions thereof, earlier than the Contract Time. Contractor, however, shall not be entitled to an adjustment of the Contract Price or to any additional costs or damages (including, but not limited to, claims for extended general conditions costs, home office overhead, jobsite overhead, and management or administrative costs), or any compensation whatsoever for Contractor's use of float and/or Contractor's inability to complete the Work earlier than the Contract Time for any reason whatsoever, including, but not limited to, delay caused by the City or other Excusable Compensable Delay. The City is exempt from liability for such costs, damages, and compensation.

Replace Reserved in Section 8-1.08 with:

8-1.08 CITY IPAD PRO iPad Pro Specifications

The Contractor must provide fifteen (15) new 2025 iPad Pros to the City for their use or the latest addition. The iPads shall have a 12 month warranty agreement with an authorized dealer and meet the specifications listed below.

- Model
 - o iPad Pro 13-inch
- Finish
 - o Silver
- Capacity
 - o 1TB
- Size and Weight

- o 11.09 inches x 8.48 inches x 0.20 inches
- Wi-Fi + Cellular model
- o 1.28 pounds

• Buttons and Connectors

- o Speaker
- o Microphones
- o Speakers
- o Top button
- o Camera
- Volume buttons
- Magnetic Connector
- o Smart Connector
- Thunderbolt / USB 4

• In the Box

- o iPad Pro
- USB-C Charge Cable (1 meter)
- o 20W USB-C Power Adapter
- o Polishing cloth

• Display

- o **13**"
- Ultra Retina XDR display
- o Tandem OLED³
- o 2752-by-2064-pixel resolution at 264 ppi
- ProMotion technology with adaptive refresh rates from 10Hz to 120Hz
- Wide color (P3)
- o True Tone
- Fingerprint-resistant oleophobic coating
- o Fully laminated
- Antireflective coating
- Nano-texture display glass option on 1TB and 2TB models
- SDR brightness: 1000 nits max
- XDR brightness: 1000 nits max full screen, 1600 nits peak (HDR content only)

- o 2,000,000:1 contrast ratio
- Supports Apple Pencil Pro
- Supports Apple Pencil (USB-C)
- o Apple Pencil hover

• Chip

- Apple M4 Chip
- o 10-core CPU with 4 performance cores and 6 efficiency cores
- o 10-core GPU
- o Hardware-accelerated ray tracing
- o 16-core Neural Engine
- 120GB/s memory bandwidth
- o 16GB RAM
- o Hardware-accelerated 8K H.264, HEVC, ProRes, and ProRes RAW
- Video decode engine
- Video encode engine
- ProRes encode and decode engine
- o AV1 decode

Camera

- o 12MP Wide camera, f/1.8 aperture
- Digital zoom up to 5x
- o Five-element lens
- Adaptive True Tone flash
- Panorama (up to 63MP)
- Sapphire crystal lens cover
- o Autofocus with Focus Pixels
- o Smart HDR 4
- Wide color capture for photos and Live Photos
- o Advanced red-eye correction
- Photo geotagging
- Auto image stabilization
- o Burst mode
- Image formats captured: HEIF and JPEG
- Video Recording

- o 4K video recording at 24 fps, 25 fps, 30 fps, or 60 fps
- 1080p HD video recording at 25 fps, 30 fps, or 60 fps
- 720p HD video recording at 30 fps
- ProRes video recording up to 4K at 30 fps (1080p at 30 fps for 256GB storage)
- o Audio zoom
- o Adaptive True Tone flash
- Slo-mo video support for 1080p at 120 fps or 240 fps
- o Time-lapse video with stabilization
- o Extended dynamic range for video up to 30 fps
- Cinematic video stabilization (4K, 1080p, and 720p)
- Continuous autofocus video
- Playback zoom
- Video formats recorded: HEVC and H.264
- o Stereo recording

• TrueDepth Camera

- o Landscape 12MP Center Stage camera
- o f/2.0 aperture
- Portrait mode with advanced bokeh and Depth Control
- Portrait Lighting with six effects (Natural, Studio, Contour, Stage, Stage Mono, High-Key Mono)
- o Animoji and Memoji
- o Smart HDR 4
- o 1080p HD video recording at 25 fps, 30 fps, or 60 fps
- o Time-lapse video with stabilization
- Extended dynamic range for video up to 30 fps
- Cinematic video stabilization (1080p and 720p)
- Wide color capture for photos and Live Photos
- Lens correction
- o Retina Flash with True Tone
- Auto image stabilization
- o Burst mode
- Video Calling
 - FaceTime video

- o Center Stage
- o iPad to any FaceTime-enabled device over Wi-Fi or cellular
- Share experiences like movies, TV, music, and other apps in a FaceTime call with SharePlay
- o Screen sharing
- Portrait mode in FaceTime video
- Spatial Audio
- Voice Isolation and Wide Spectrum microphone modes

Audio Calling

- FaceTime audio
- o iPad to any FaceTime-enabled device over Wi-Fi or cellular

• Speakers

o Four speaker audio

• Microphones

Studio-quality four-mic array for calls, video recording, and audio recording

• Cellular and Wireless

- Wi-Fi 6E (802.11ax) with 2x2 MIMO⁶
- o Simultaneous dual band
- o Bluetooth 5.3
- o 5G (sub-6 GHz) with 4x4 MIMO
- o Gigabit LTE with 4x4 MIMO
- SIM Card
 - o eSIM
- Location
 - Digital compass
 - o Wi-Fi
 - o iBeacon microlocation
 - GPS/GNSS
 - o Cellular
- Sensors
 - o Face ID
 - o LiDAR Scanner

- Three-axis gyro
- o Accelerometer
- o Barometer
- Ambient light sensors
- Siri

• Charging and Expansion

- Thunderbolt / USB 4 port with support for:
- o Charging
- o DisplayPort
- Thunderbolt 3 (up to 40Gb/s)
- USB 4 (up to 40Gb/s)
- USB 3 (up to 10Gb/s)
- Display Support
- Power and Battery
 - o Built-in 38.99-watt-hour rechargeable lithium-polymer battery

• Operating System

- o iPadOS 18
- Accessibility
 - \circ VoiceOver
 - o **Zoom**
 - o Magnifier
 - o Spoken Content
 - Voice Control
 - Switch Control
 - o AssistiveTouch
 - Siri and Dictation
 - o Type to Siri
 - o Real-Time Text
 - Audio Descriptions
 - o Subtitles and Closed Captioning
 - o Live Captions
- Built-in Apps
 - o App Store

- o Books
- o Calculator
- o Calendar
- o Camera
- o Clock
- o Contacts
- o FaceTime
- \circ Files
- o Find My
- o Freeform
- o Health
- o Home
- o iTunes Store
- o Magnifier
- o Mail
- o Maps
- o Measure
- o Messages
- o Music
- o News
- o Notes
- o Passwords
- o Photo Booth
- o Photos
- o Podcasts
- o Reminders
- o Safari
- o Settings
- o Shortcuts
- o Stocks
- o Tips
- o Translate
- o TV

- Voice Memos
- o Weather
- Video Playback Support
- Audio Playback Support
- Mail Attachment Support
- Environmental Requirements
 - Operating ambient temperature: 32° to 95° F (0° to 35° C)
 - Nonoperating temperature: -4° to 113° F (-20° to 45° C)
 - Relative humidity: 5% to 95% noncondensing
 - Operating altitude: tested up to 10,000 feet (3000 m)

The iPad Pro and associated software shall remain the property of the City. The iPad Pro shall be procured only after the Notice to Proceed has been issued and as directed by the Engineer. Full compensation for conforming to all requirements of this section shall be considered as included in the contract prices paid for the various items of work, and no additional compensation will be allowed therefor.

Add to Section 8-1.10 LIQUIDATED DAMAGES:

Any progress payment made after the completion date shall not be construed as a waiver of liquidated damages.

The City may withhold liquidated damages before the accrual date if the anticipated liquidated damages may exceed the value of the remaining work.

Add to Section 8-1.10A General:

The Contractor shall pay to the City of Goleta the sum of **\$6,700 per day**, each and every calendar day's delay in finishing the work in excess of the number of working days prescribed in Section 8-1.04A GENERAL of these Special Provisions. Any progress payment made after the completion date shall not be construed as a waiver of liquidated damages.

For each and every day that any portion of the work remains unfinished after the time fixed for completion in the contract documents as modified by any extension of time, damage will be sustained by the City. Because of the difficulty in computing the actual material loss and disadvantage to the City, the Contractor and City agree that Contractor will pay the City the amount of damages set forth herein as representing a reasonable forecast of the actual damages which the City will suffer by the failure of the Contractor to complete the work within the stipulated time. The execution of the agreement shall constitute acknowledgment by the Contractor that he or she has ascertained and agrees that the City will actually suffer damages in the amount herein fixed for each and every day during which the completion of the work is avoidably delayed beyond the stipulated completion date.

Unless otherwise provided in the contract documents, the Contractor shall have no claim or right of action against the City for damages, costs, expenses, loss of profits, or otherwise because or by reason of any delay in the fulfillment of the contract within the time limited therefor occasioned by any cause or event within or without the Contractor's control, and whether or not such delay may have resulted from anything done or not done by the City.

Add to the end of Section 8-1.10B Failure to Complete Work Parts Within Specified Times:

The roadway section and or intersection shall be opened to traffic by the end of the roadways last working hours as outlined in section 7-1.02K(5) WORKING HOURS. The Contractor shall pay to the City the sum of \$2,000.00 per hour for each hour, or portion of an hour, after the last working hour are exceeded and that a traveled lane remains closed due to the Contractor's operations.

The Contractor shall pay to the City the sum of \$1,000 per day, each and every calendar day's delay in completing the NORTHEAST GOLETA NEIGHBORHOOD (Plan Sheets 13 – 26) work in place as outlined in Section 5-1.05 ORDER OF WORK.

The Contractor shall pay to the city the sum of \$1,000.00 per day for each day, or portion of a day, that the sequencing and scheduling is not meet and outlined in Section 39-3.04A COLD PLANING ASPHALT CONCRETE PAVEMENT sequencing and of these Special Provisions.

The roadway shall be opened to traffic at the end of the roadways last working hour. The Contractor shall pay to the City the sum of \$1,000.00 per hour for each hour, or portion of an hour, after the last working hour are exceeded and that a traveled lane remains closed due to the Contractor's operations.

After the working hours of the roadways are exceeded by one (1) hour, the Contractor shall pay to the City the sum of \$1,500.00 per hour for each hour, or, portion of an hour, that a traveled lane remains closed due to the Contractor's operations.

The Engineer will provide written notice of non-conformance to the Contractor within twenty-four (24) hours of the violation. All Contractor's equipment, machinery, traffic control, and personnel shall be off of the pavement and all lanes shall be open to traffic to be considered as full compliance.

Any progress payment made after the completion date shall not be construed as a waiver of liquidated damages.

The table below summarizes liquidated damages associated with all work part failures as described in these Special Provisions.

Work Park	Time Frame	Liquidated Damage	Reference Section
Failure to perform work within specified working hours	Per every hour exceeding 8 hours per day or 40 hours per week	\$260 per hour for Resident Engineer \$190 for Inspector	5-1.08
Failure to receive an approved submittal after the first revision	Per submittal review after the first revision	\$2,000 per review	5-1.23A
Alternate item for review after submittal is approved	Per submittal review	\$2,500 per review	5-1.23A
Failure to submit Contractor's Daily Report by specified time	For each day	\$500 per day	5-1.24
Failure to post and notify businesses and residents a minimum of five (5) calendar days in advanced of scheduled work	Per occurrence	\$300 per street	7-1.03
Failure to perform work on a scheduled street	Per occurrence	\$300 per street	7-1.03
Failure to place "No Parking" Signs at specified intervals	Per occurrence	\$300 per street	7-1.03
Failure to address public inconvenience and/emergency within specified timeframe	For each hour or part thereof	\$500 per hour	7-1.12
Unauthorized use of City Right-of-Way	Per occurrence	\$1,000 per occurrence	7-1.15
Failure to complete the Project within Contract Period	Notice to Proceed	\$6,700 per each consecutive calendar day in excess of the Contract Period	8-1.10A
Failure to complete NORTHEAST GOLETA NEIGHBORHOOD (Plan Sheets 13-26) by specified timeframe	Per each and every calendar days' delay in finishing the work beyond the specified date	\$1,000 per day	8-1.10B
Failure to comply with sequencing and scheduling requirements outlined in Section 39- 3.04A COLD PLANING	Per day for each and every day, or portion of a day	\$1,000 per day	8-1.10B

Work Park	Time Frame	Liquidated Damage	Reference Section
Failure to open roadway section and or intersection are exceeded by one (1) hour	For each hour or part thereof	\$1,500 per hour	8-1.10B
Failure of Traffic Control Supervisor to be onsite within specified time of being contacted	For each hour or part thereof	\$500 per hour	12-4.02C(13)
Failure to address BMP deficiencies within specified timeframe	For each hour or part thereof	\$500 per hour	13-4.03A
Failure to open street to traffic within one (1) hour of placing micro-surfacing	Per ten (10) minute increments	\$500 per ten (10) minute increments	37-3.03C(5)
Failure to install temporary pavement transitions	Per day for each and every day, or portion of a day	\$250 per transition	39-3.04
Failure to install temporary or permanent installation of traffic striping, pavement markings, or RPMs	Per day for each and every day, or portion of a day	\$300 per street	84-2.03

Replace *Reserved* in Section 8-1.11 with:

8-1.11 UTILITY AND NON-HIGHWAY FACILITIES

Attention is directed to Section 15 EXISTING FACILITIES of the State Standard Specifications and these Special Provisions.

The Contractor shall notify the Engineer and the appropriate regional notification center for operators of subsurface installations at least three (3) working days, but not more than fourteen (14) calendar days, prior to performing any excavation or other work close to any underground pipeline, conduit, duct, wire or other structure. Regional notification centers include, but are not limited to, the following:

			Telephone Number
Underground		Alert-Southern	(811) 422-4133
California (USA	alifornia (USA)		(800) 422-4133

The Contractor is cautioned that there may be underground and overhead utility facilities within the work area including telephone, electrical, cable television, gas, water and sanitary sewer transmission facilities, and storm drainage collection facilities.

2025 ARTERIAL PAVEMENT PROJECT			
CITY PROJECT NO. N/A			
SP-56			
ADDENDUM 1			

Notification Center			Telephone Number
		Alert-Southern	(811) 422-4133
California (USA)			(800) 422-4133

The Contractor is cautioned that there may be underground and overhead utility facilities within the work area including telephone, electrical, cable television, gas, water and sanitary sewer transmission facilities, and storm drainage collection facilities.

Where possible conflict may exist, the Contractor shall verify the grade and location of existing underground utility prior to any work.

It is recognized by the City and the Contractor that the locations of existing utilities as shown on the plans are approximate, their actual location is unknown. Recognition is given to the fact there may be additional existing utilities unknown to either party to the contract. Location of utilities, as shown on the drawings, represents the best information obtainable from utility maps and information furnished by the various agencies and companies involved. The City warrants neither the accuracy nor the extent of the actual utilities involved.

In the event the Contractor discovers utilities not identified on the plans or by the utilities, the Contractor shall immediately notify the Engineer and the utility owners by the most expeditious method reasonably available and later confirm in writing.

The right is reserved to the City and the owners of facilities, or their authorized agents, to enter upon the City right of way for the purpose of making those changes that are necessary for the rearrangement of their facilities or for making necessary connections or repairs to their properties. The Contractor shall cooperate with forces engaged in this work and shall conduct operations in such a manner as to avoid any unnecessary delay or hindrance to the work being performed by the other forces. Wherever necessary, the work of the Contractor shall be coordinated with the rearrangement of utility or other non-highway facilities, and the Contractor shall make arrangements with the owner of those facilities for the coordination of the work.

Attention is directed to the possible existence of underground main or trunk line facilities not indicated on the plans or in these Special Provisions and to the possibility that underground main or trunk lines may be in a location different from that which is indicated on the plans or in these Special Provisions. The Contractor shall ascertain the exact location of underground main or trunk lines whose presence is indicated on the plans or in these Special Provisions, the location of their service laterals or other appurtenances, and of existing service lateral or appurtenances of any other underground facilities which can be inferred from the presence of visible facilities such as buildings, meters and junction boxes prior to doing work that may damage any of the facilities or interfere with their service.

If the Contractor cannot locate an underground facility whose presence is indicated on the plans or in these Special Provisions, the Contractor shall so notify the Engineer in writing. If the facility for which the notice is given is in a substantially different location from that indicated on the plans or in these Special Provisions, the additional cost of locating the facility will be paid for as extra work as provided in Section 4-1.05 CHANGES AND EXTRA WORK of the State Standard Specifications.

If the Contractor discovers underground main or trunk lines not indicated on the plans or in these Special Provisions, the Contractor shall immediately give the Engineer and the Utility Company written notification of the existence of those facilities. The main or trunk lines shall be located and protected from damage as directed by the Engineer, and the cost of that work will be paid for as extra work as provided in Section 4-1.05 CHANGES AND EXTRA WORK of the State Standard Specifications. The Contractor shall, if directed by the Engineer, repair any damage which may occur to the main or trunk lines. The cost of that repair work, not due to the failure of the Contractor to exercise reasonable care, will be paid for as extra work as provided in Section 4-1.05 CHANGES AND EXTRA WORK of the State Standard Specifications. Damage due to the Contractor's failure to exercise reasonable care shall be repaired at the Contractor's cost and expense.

Where it is determined by the Engineer that the rearrangement of an underground facility is essential in order to accommodate the Project and the plans and specifications do not provide that the facility is to be rearranged, the Engineer will provide for the rearrangement of the facility by other forces or the rearrangement shall be performed by the Contractor and will be paid for as extra work as provided in Section 4-1.05 CHANGES AND EXTRA WORK of the State Standard Specifications. When ordered by the Engineer in writing, the Contractor shall rearrange any utility or other non-highway facility necessary to be rearranged as a part of the highway improvement, and that work will be paid for as extra work as provided in Section 4-1.05 CHANGES AND EXTRA WORK of the State Standard Specifications. When ordered by the Engineer in writing, the Contractor shall rearrange any utility or other non-highway facility necessary to be rearranged as a part of the highway improvement, and that work will be paid for as extra work as provided in Section 4-1.05 CHANGES AND EXTRA WORK of the State Standard Specifications.

Should the Contractor desire to have any rearrangement made in any utility facility, or other improvement, for the Contractor's convenience in order to facilitate the Contractor's construction operations, which rearrangement is in addition to, or different from, the rearrangements indicated on the plans or in these Special Provisions, the Contractor shall make whatever arrangements are necessary with the owners of the utility or other non-highway facility for the rearrangement and bear all expenses in connection therewith.

The Contractor shall immediately notify the Engineer of any delays to the Contractor's operations as a direct result of underground main or trunk line facilities which were not indicated on the plans or in these Special Provisions or were located in a position substantially different from that indicated on the plans or in these Special Provisions, or as a direct result of utility or other non-highway facilities not being rearranged as herein provided (other than delays in connection with rearrangements made to facilitate the Contractor's construction operations or delays due to a strike or labor dispute). These delays will be considered right of way delays within the meaning of Section 8-1.07 DELAYS of the State Standard Specifications and compensation for the delay will be determined in conformance with the provisions in Section 8-1.07B TIME ADJUSTMENTS of the State Standard Specifications and these Special Provisions. The Contractor shall be entitled to no other compensation for that delay.

Any delays to the Contractor's operations as a direct result of utility or other non-highway facilities not being rearranged as provided in this Section 8-1.11 UTILITY AND NON-HIGHWAY FACILITIES of these Special Provisions, due to a strike or labor dispute, will entitle the Contractor to an extension of time as provided in Section 8-1.07 DELAYS of the State Standard Specifications. The Contractor shall be entitled to no other compensation for that delay.

Add Section 8-1.13A:

8-1.13A TERMINATION BY THE CITY FOR CAUSE

8-1.13A(1) Grounds

The City shall have the right to terminate the Contractor's performance of the Work, in whole or in part, if:

- Contractor fails to promptly commence the Work or unnecessarily or unreasonably delays the Work or improperly discontinues the diligent prosecution of the Work or abandons the Work;
- 2. Contractor refuses or fails to supply skilled supervisory personnel, an adequate number of properly skilled workers, proper materials, or necessary equipment to perform the Work in strict accordance with the Contract Documents, and the latest accepted schedule;
- 3. Contractor fails to make prompt payment of amounts properly due Subcontractors after receiving payment from the City;
- 4. Contractor disregards applicable laws, statutes, ordinances, codes, rules, regulations, or lawful orders of a public authority;
- Contractor fails to resume performance of Work which has been suspended or stopped, within ten (10) working days after receipt of notice from the City to do so or (if applicable) after cessation of the event preventing performance;
- Any representation or warranty made by Contractor in the Contract Documents or any certificate, schedule, instrument, or other document delivered by Contractor pursuant to the Contract Documents shall have been false or materially misleading when made;
- After commencement of the Work the City becomes aware that the Contractor is using an ineligible Contractor, Subcontractor, or supplier who was barred from performing work or providing materials or services on City projects at the time of Bid;
- 8. Contractor fails to make payment to Subcontractors for materials or labor in accordance with the respective Contract Documents and applicable law;
- 9. The Contract is assigned or the Work is sublet otherwise than as specified in the Contract Documents;
- 10. Contractor otherwise is guilty of breach of a provision of the Contract Documents; or
- 11. Contractor materially fails to execute the Work in accordance with the Contract Documents or, in the City's opinion, is violating any of the terms of the Contract or is not executing the Contract in good faith or is not following instructions of the City as to additional force necessary in the opinion of the City for its completion within the required time.

8-1.13A(2) City's Rights Upon Termination Of Contract For Cause: Notice To Cure And Notice Of Termination For Default

When any of the reasons specified above exist, the City may, in addition to and without prejudice to any other rights or remedies of the City, issue a written notice to cure the default to the Contractor and its surety. The Contractor shall commence satisfactory corrective actions within five (5) working days after receipt of the notice to cure. If the Contractor fails to commence satisfactory corrective work within five (5) working days after receipt of the notice to cure, or to diligently continue satisfactory and timely correction of the default thereafter, the City will advise the performance bond surety of the default and that surety will be given fifteen (15) calendar days to arrange for completion of the Work in accordance with the Contract Documents by another Contractor or Contractors satisfactory to the City. Should the surety fail to effect satisfactory arrangements within said 15-day period, the City shall have the right to issue a notice of termination for default and to:

- 1. Exclude the Contractor from the Site;
- 2. Take possession of the Site and of all materials, equipment, tools and construction equipment, and machinery thereon owned by the Contractor;
- 3. Suspend any further payments to Contractor;
- Accept assignment of subcontracts pursuant to Section 5-1.13 SUBCONTRACTING of the State Standard Specifications and these Special Provisions; and
- 5. Finish the Work by whatever reasonable method the City may deem expedient.

When the City terminates the Contractor's performance of the Work for one of the reasons stated in this Section 8-1.13A TERMINATION BY THE CITY FOR CAUSE, the Contractor shall not be entitled to receive further payment until the Work is finished.

The City shall charge the cost to complete the Work, including, but not limited to, protection, investigation, labor, services, equipment, materials, permits, fees, supervisory, and administrative costs to Contractor and its performance bond surety. If the unpaid balance of the Contract Price is less than all costs of finishing the Work, including compensation for the City's services and expenses made necessary thereby, and other damages incurred by the City and not expressly waived, the Contractor shall pay the difference to the City. This obligation for payment shall survive termination of the Contract. If the unpaid balance of the Contract Price is greater than all costs of finishing the Work, including compensation for the City's services and expenses made necessary thereby, the Contractor shall receive payment for Work properly performed by Contractor for which payment was not made previously; any excess amounts shall be retained by the City.

Upon receipt of the written notice of termination for default, the surety shall immediately assume all rights, obligations and liabilities of the Contractor under the Contract. If the surety fails to protect and maintain the work site, the City may do so, and may recover all costs incurred. The surety shall notify the City that it is assuming all rights, obligations and liabilities of the Contractor under the Contract. Within fifteen (15) working days of receipt of the written notice of termination for default, the Surety shall submit to the City

a written plan detailing the course of action it intends to take to remedy the default. The City will review the plan and notify the surety if the plan is satisfactory. If the surety fails to submit a satisfactory plan, or if the surety fails to maintain progress according to the plan accepted by the City, the City may, upon 48 hours written notice, exclude the surety from the premises, take possession of all material and equipment, and complete the Work in any way the City deems to be expedient. The cost of completing the Work by the City shall be charged against the surety and may be deducted from any monies due, or which would become due, the surety. If the amounts due under the Contract are insufficient for completion, the surety shall pay to the City, within thirty (30) days after the City submits an invoice, all costs in excess of the remaining Contract Price. The surety will be paid for completion of the Work in accordance with Section 9 PAYMENT of the State Standard Specifications and these Special Provisions, less the value of damages caused to the City by acts of the Contractor.

8-1.13A(3) Erroneous Termination

If it has been adjudicated or otherwise determined that the City has erroneously or negligently terminated the Contractor for cause, then said termination shall automatically convert to a termination by the City for convenience as set forth in Section 8-1.13B TERMINATION BY THE CITY FOR CONVENIENCE of these Special Provisions.

8-1.13A(4) Acceptance Of Incomplete Or Non-Conforming Work

In lieu of the provisions of this Section for terminating the Contractor's performance, the City may pay the Contractor for the portion of Work completed according to the provisions of the Contract Documents and may treat the incomplete Work as if they had never been included or contemplated by this Contract, in which case the Contract Price will be reduced by the value of the deleted Work determined in accordance with Section 4-1.05 CHANGES AND EXTRA WORK of the State Standard Specifications and these Special Provisions. No claim under this provision will be allowed the Contractor for overhead or prospective profits on Work not completed by the Contractor.

8-1.13A(5) Adequate Financial Assurances

It is recognized that if Contractor is adjudged a bankrupt or makes a general assignment for the benefit of creditors, or if a receiver is appointed for the benefit of its creditors, or if a receiver is appointed on account of Contractor's insolvency, this could impair or frustrate Contractor's performance of the Work. Accordingly, it is agreed that upon the occurrence of any such event, the City shall be entitled to request of Contractor, or its successor in interest, adequate assurance of future performance in accordance with the terms and conditions hereof. Failure to comply with such request within five (5) calendar days of delivery of the request shall entitle the City to terminate the Contract and to the accompanying rights set forth above. Pending receipt of adequate occurrence of performance and actual performance in accordance therewith, the City shall be entitled to proceed with the Work with its own forces or with other Contractors on a time and material or other appropriate basis, the cost of which will be backcharged against the Contract Price.

8-1.13B TERMINATION BY THE CITY FOR CONVENIENCE

The City may, at any time, terminate the Contractor's performance of the Work, in whole or in part, for the City's convenience without regard to Contractor's fault or breach upon fourteen (14) calendar days' written notice to Contractor.

In the event that the City terminates Contractor's performance of the Work for convenience, Contractor agrees to waive any claims for damages, including, but not limited to, home office overhead, loss of anticipated profits on account thereof, and as the sole right and remedy of Contractor, the City shall pay Contractor in accordance with Section 8-1.14E PAYMENT ADJUSTMENT FOR TERMINATION of these Special Provisions. The provisions of the Contract, which by their nature survive final acceptance of the Work, shall remain in full force and effect after such termination to the extent provided in such provisions.

8-1.13C CONTRACTOR'S DUTIES UPON TERMINATION

Upon receipt of written notice from the City of such termination for cause or for the City's convenience, the Contractor shall, unless the notice directs otherwise, do the following:

- 1. Cease performance of the Work to the extent specified in the notice;
- 2. Cooperate with the City to secure the site and demobilize in a safe and orderly fashion;
- 3. Take actions necessary, or that the City may direct, for the protection and preservation of the Work;
- Except for Work directed to be performed in the notice, incur no further costs and enter into no further subcontracts and purchase orders;
- 5. If requested by the City, assign to the City, in the manner and to the extent directed, all of the right, title and interest to the Contractor under the subcontracts, and the City shall have no liability for acts, omissions or causes of action resulting therefrom which accrued prior to the date of termination and assignment, which liability shall remain with the Contract; and
- 6. Turn over to the City, as soon as possible, but not later than thirty (30) days after receipt of such termination notice, the originals of all of the Contractor's records, files, documents, drawings and any other items relating to the project, whether located on the project site, at the Contractor's office or elsewhere.

Replace Section 8-1.14E Payment Adjustment for Termination with:

8-1.14E PAYMENT ADJUSTMENT FOR TERMINATION

If the City issues a termination notice, the Engineer determines the payment for termination during the performance period, from contract approval date to contract acceptance date, based on the following:

1. Direct cost for the work performed:

- 1.1. Including:
 - 1.1.1. Mobilization
 - 1.1.2. Demobilization
 - 1.1.3. Securing the job site for termination
 - 1.1.4. Losses from the sale of materials
- 1.2. Not including:
 - 1.2.1. Cost of materials you keep
 - 1.2.2. Profit realized from the sale of materials
 - 1.2.3. Cost of material damaged by:
 - 1.2.3.1. Act of God
 - 1.2.3.2. Act of a public enemy
 - 1.2.3.3. Fire
 - 1.2.3.4. Flood.
 - 1.2.3.5. Governor-declared state of emergency
 - 1.2.3.6. Landslide
 - 1.2.3.7. Tsunami
 - 1.2.4. Other credits
- 2. Cost of remedial work, as estimated by the Engineer, is not reimbursed.
- 3. Allowance for profit not to exceed 4 percent of the cost of the work performed where a likelihood of having made a profit had the Contract not been terminated is shown.
- 4. Material handling costs for material returned to the vendor or disposed of as ordered.
- 5. Costs in determining the payment adjustment due to the termination, excluding attorney fees and litigation costs.
- 6. Overhead costs.

Termination of the Contract does not relieve the surety of its obligation for any just claims arising out of the work performed.

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9 PAYMENT

Add to the end of Section 9-1.02 MEASUREMENT:

Payment for all work bid at a price per unit of measurement will be based upon actual quantities of work as measured upon completion. The City does not expressly or by implication agree that the actual amount of work or materials of any class will correspond to the estimated quantities given in the proposal. The Contractor shall make no claim for

2025 ARTERIAL PAVEMENT PROJECT CITY PROJECT NO. N/A SP-63 anticipated profits, or loss of profit, for damages, or for any extra payment whatever because of any difference between the amount of work actually done or materials furnished and the estimated amount.

Add to the end of Section 9-1.03 PAYMENT SCOPE:

The items bid on a "lump sum" basis shall result in a complete structure, operating plant, or system, (including all warranty documents and product and operating manuals) in satisfactory working condition in respect to the functional purpose of the installation and no extra compensation will be allowed for anything omitted but implied. Full compensation for additional materials and labor, whether or not shown on the drawing or specified in the State Standard Specifications or these Special Provisions, which are necessary to complete all the work will be considered as included in the lump sum price paid for the work, and no additional compensation will be allowed.

Add Section 9-1.03A:

9-1.03A PROMPT PROGRESS PAYMENT TO SUBCONTRACTORS

A prime contractor or subcontractor shall pay any subcontractor not later than seven (7) calendar days of receipt of each progress payment in accordance with the provision in Section 7108.5 of the California Business and Professions Code concerning prompt payment to subcontractors. The seven (7) calendar days is applicable unless a longer period is agreed to in writing. Any delay or postponement of payment over thirty (30) days may take place only for good cause and with the agency's prior written approval. Any violation of Section 7108.5 shall subject the violating contractor or subcontractor to the penalties, sanction and other remedies of that section. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the contractor or subcontractor, deficient subcontract performance, or noncompliance by a subcontractor.

Replace Reserved in Section 9-1.12 with:

9-1.12 PROMPT PAYMENT

The City shall make all project progress payment within thirty (30) days after receipt of an undisputed, complete and properly submitted payment request from the contractor on a construction contract. If the local agency fails to pay promptly, the local agency shall pay interest to the contractor, which accrues at the rate of ten (10) percent per annum on the principal amount of a money judgment remaining unsatisfied and prorated as necessary. Upon receipt of the payment request, the local agency shall act in accordance with both of the following:

- 1. The local agency shall review each payment request as soon as feasible after receipt to verify it is a proper payment request.
- The local agency must return any payment request deemed improper or incomplete by the local agency to the contractor as soon as feasible, but not later than seven (7) days, after receipt. A request returned pursuant to this paragraph shall include

documentation setting forth in writing the reasons why it is an improper payment request.

Mobilization shall be as defined in Section 1-1.07B GLOSSARY of the State Standard Specifications and include the furnishing and providing for regular maintenance of temporary sanitary facilities on the job for the duration of the project. Failure to comply with this requirement will result in withholding of mobilization payments in the amount deemed appropriate by the Engineer.

9-1.12A PAYMENT

The contract lump sum price paid for "**Mobilization, Bonds & Insurance**" shall include all costs associated with insurance, bonds, permits and fees, submittals, moving onto the jobs (mobilization) establishment of stockpile operations, moving off the job (demobilization) removal, clean up and restoration of stock pile area and limits of work, project phasing, supervision, coordination of concurrent work with other Contractors, meetings and other work indicated in the Contract Documents. Mobilization shall also include all costs to provide and mail/deliver required notification in advance and during the project as required by these Special Provisions, posting notices at the project site, and to provide response to residential and business concerns.

Replace Section 9-1.16A General with:

9-1.16A PROGRESS PAYMENTS

After award of contract, the progress payments are due on the 15th of each month. The Contractor may request in writing that such monthly closure date be changed. The Engineer may approve such request when it is compatible with the City's payment procedure.

The Contractor shall submit all requests for progress payments using the forms included in Appendix I.

Form CC1: <u>Progress Payment Request</u> - This form is to be completed and signed by the Contractor and attached as a cover sheet to its request for payment. This will be mandatory on all contract requests.

Form CC2: <u>Progress Payment Request – Detail</u> - This form may be used by the Contractor to provide the detail required to verify payment quantities. (City will accept the Contractor's standard form if it provides the required information).

Form CC3: <u>Quantity Change Verification Form</u> - This form is required before any payment can be made based on actual quantities exceeding estimated quantities. At the conclusion of the contract, the City will issue a "Balancing Change Order" incorporating all quantity increases and decreases in the contract items of work.

9-1.16A(1) General

Based upon Applications for Payment submitted to the Engineer by the Contractor, the City shall make progress payments to the Contractor as provided below and elsewhere in the Contract Documents.

The period covered by each Application for Payment shall be one calendar month ending on the 20th day of the month.

The Contractor shall submit each Application for Payment to the Engineer by the last day of each month.

Pursuant to Section 9-1.02 MEASUREMENT of the State Standard Specifications and these Special Provisions, Contractor's Applications for Payment shall be based on the actual installed measured in place quantities for payment.

Applications for Payment shall indicate the percentage of completion of each portion of the Work for which a lump sum price is specified as of the end of the period covered by the Application for Payment.

9-1.16A(2) Applications for Payment

Contractor shall submit to the Engineer an Application for Payment (on a Form CC2 provided in Appendix I) for Work completed in accordance with the measurement of quantities. Such application shall be supported by such data substantiating the Contractor's right to payment as the Engineer may require.

By submitting an Application for Payment, the Contractor warrants that all Work has been performed in compliance with the Contract Documents, and that all quantities and amounts set forth therein accurately reflect the amount of Work completed during that pay period.

Each Application for Payment shall be reviewed by the Engineer as soon as practicable after receipt for the purpose of determining that the Application for Payment is a "proper and complete" payment request, accurately reflecting the value of Work completed and submitted with the documents required by the Contract Documents. An Application for Payment shall be deemed "proper" only if it is properly completed and submitted on the proper forms. The Engineer shall have the right to adjust any estimate of quantity and to subsequently correct any error made in any Application for Payment.

The City shall make payment to the Contractor not later than thirty (30) calendar days after the Engineer's verification and approval that an Application for Payment is undisputed and properly submitted.

9-1.16A(3) Payments for Authorized Changes

Applications for Payment may include requests for payment on account of changes in the Work that have been properly authorized by Contract Change Orders, which shall be itemized separately from base Contract Work.

9-1.16A(4) No Requests for Disputed Subcontractor Work

Applications for Payment shall not include requests for payment of amounts the Contractor does not intend to pay to a Subcontractor or material supplier because of a dispute or other reason, or as to which an appropriate stop payment notice release has not been filed.

9-1.16A(5) City Review and Payment

This Contract is subject to the following provisions of California Public Contract Code Section 20104.50 which provides as follows:

(a)(1) It is the intent of the Legislature in enacting this Section to require all local governments to pay their Contractors on time so that these Contractors can meet their own obligations. In requiring prompt payment by all local governments, the Legislature hereby finds and declares that the prompt payment of outstanding receipts is not merely a municipal affair, but is, instead, a matter of statewide concern.

(2) It is the intent of the Legislature in enacting this article to fully occupy the field of public policy relating to the prompt payment of local governments' outstanding receipts. The Legislature finds and declares that all governmental officials, including those in local government, must set a standard of prompt payment that any business in the private sector that may contract for services should look toward for guidance.

(b) Any local agency which fails to make any progress payment within thirty (30) days after receipt of an undisputed and properly submitted payment request from a Contractor or construction Contract shall pay interest to the Contractor equivalent to the legal rate set forth in subdivision (a) of § 685.010 of the Code of Civil Procedure.

(c) Upon receipt of a payment request, each local agency shall act in accordance with both of the following:

(1) Each payment request shall be reviewed by the local agency as soon as practicable after receipt of the purpose of determining that the payment request is a proper payment request;

(2) Any payment request determined not to be a proper payment request suitable for payment shall be returned to the Contractor as soon as practicable, but not later than seven (7) days, after receipt. A request returned pursuant to this Section shall be accompanied by a document setting forth in writing the reasons why the payment request is not proper.

(d) The number of days available to a local agency to make a payment without incurring interest pursuant to this Section shall be reduced by the number of days by which a local agency exceeds the seven-day return requirement set forth in paragraph (2) of subdivision (c).

(e) For purposes of this Article:

(1) A "local agency" includes, but is not limited to, a City, including a charter City, a county, and a City and county, and is any public entity subject to this part.

(2) A "progress payment" includes all payments due Contractors, except that portion of the final payment designated by the Contract as retention earnings.

(3) A payment request shall be considered properly executed if funds are available for payment of the payment request, and the Financial Officer of the local agency does not delay the payment due to an audit inquiry.

(f) Each local agency shall require that this article, or a summary thereof, be set forth in the terms of any Contract subject to this Article.

9-1.16A(6) Improper Application For Payment

In accordance with Section 20104.50 of the California Public Contract Code, any Application for Payment determined by the Engineer not to be a proper payment request, suitable for payment, shall be returned to the Contractor as soon as practicable, but not

later than seven (7) calendar days after receipt by the Engineer. An Application for Payment returned to the Contractor shall be accompanied by written documentation setting forth the reasons why the Application for Payment is not proper and not suitable for payment. If an Application for Payment is so returned as improper, no payment will be due the Contractor. The City reserves the right to make partial payment of undisputed amounts.

9-1.16A(7) Interest On Undisputed Amounts

If the City fails to make any progress payment within thirty (30) calendar days after receipt of an undisputed and proper Application for Payment from the Contractor, the City shall pay interest to the Contractor equivalent to the legal rate set forth in subdivision (a) of Section 685.010 of the California Code of Civil Procedure. The number of days available to the City to make a payment without incurring interest shall be reduced by the number of days by which the Engineer exceeds the seven (7) day return requirement set forth above.

9-1.16A(8) Contractor Warranty Of Title To Work

The Contractor warrants that title to all Work covered by an Application for Payment will pass to the City no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment, all Work for which payments have been received from the City shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests, or encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work. This provision shall not relieve the Contractor from the responsibility for materials and Work upon which payments have been made, the restoration of damaged Work or as waiving the right of the City to require the fulfillment of the terms of the Contract.

Each time the Contractor submits an Application for Payment, the Contractor herby certifies that each Application for Payment is complete and accurate regarding the quantities and amounts stated in the application, and that all Work for which the Contractor seeks payment have been provided in a manner that meets or exceeds the Contract requirements.

9-1.16A(9) Partial Payments

The City, once in each month, shall cause an estimate in writing to be made by the Engineer. The estimate shall include the total amount of work done and acceptable materials furnished, provided the acceptable materials are listed as eligible for partial payment as materials in these Special Provisions and are furnished and delivered by the Contractor on the ground and not used or are furnished and stored for use on the contract, if the storage is within the City and the Contractor furnishes evidence satisfactory to the Engineer that the materials are stored subject to or under the control of the City, to the time of the estimate, and the value thereof. The estimate shall also include any amounts payable for mobilization. Daily extra work reports furnished by the Contractor less than five (5) working days before the preparation of the monthly progress estimate shall not be eligible for payment until the following month's estimate.

• The amount of any material to be considered in making an estimate will in no case exceed the amount thereof which has been reported by the Contractor to the

Engineer on State-furnished forms properly filled out and executed, including accompanying documentation as therein required, less the amount of the material incorporated in the work to the time of the estimate. Only materials to be incorporated in the work will be considered. The estimated value of the material established by the Engineer will in no case exceed the contract price for the item of work for which the material is furnished.

- The City shall retain ten (10) percent of the estimated value of the work done and ten (10) percent of the value of materials so estimated to have been furnished and delivered and unused or furnished and stored as aforesaid as part security for the fulfillment of the contract by the Contractor, except that at any time after twenty (20) percent of the work has been completed, if the Engineer finds that satisfactory progress is being made, the City may reduce the total amount being retained from payment pursuant to the above requirements to five (5) percent of the total estimated value of the work and materials and may also reduce the amount retained from any of the remaining partial payments to five (5) percent of the estimated value of the work and materials. In addition, on any partial payment made after ninety-five (95) percent of the work has been completed, the City may reduce the amount withheld from payment pursuant to the requirements of this Section 9-1.16A(9) PARTIAL PAYMENTS of these Special Provisions, to such lesser amount as the City determines is adequate security for the fulfillment of the balance of the work and other requirements of the contract, but in no event will that amount be reduced to less than one-hundred and twenty-five (125) percent of the estimated value of the work yet to be completed as determined by the Engineer. The reduction will only be made upon the written request of the Contractor and shall be approved in writing by the surety on the Performance Bond and by the surety on the Payment Bond. The approval of the surety shall be submitted to the Disbursing Officer of the City; the signature of the person executing the approval for the surety shall be properly acknowledged and the power of attorney authorizing the person to give that consent must either accompany the document or be on file with the City.
- The City shall pay monthly to the Contractor, while carrying on the work, the balance not retained, as aforesaid, after deducting therefrom all previous payments and all sums to be kept or retained under the provisions of the contract. No monthly estimate or payment shall be required to be made when, in the judgment of the Engineer, the work is not proceeding in accordance with the provisions of the contract.
- No monthly estimate or payment shall be construed to be an acceptance of any defective work or improper materials.
- Attention is directed to the prohibitions and penalties pertaining to unlicensed contractors as provided in Business and Professions Code Sections 7028.15(a) and 7031.

Add to Section 9-1.16D Mobilization:

Mobilization shall consist of preparatory work and operations, including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items on the project site. Mobilization also includes public notifications. Demobilization shall include, upon

substantial completion of the contracted work, the removal of all signs, construction trailers, storage trailers and bins, temporary fencing, garbage, construction debris, equipment, utility services not scheduled to remain, portable toilet facilities, and all excess construction material not included and paid for within other base bid items. Work shall also include the repair, restoration and/or replacement of facilities damaged by the Contractor and/or Subcontractors and suppliers, including driveways, parking areas, streets, pipelines, and landscaping, and the submittal of Record Drawings. Work area shall be cleaned and restored to original condition or better as further shown on the plans.

The compensation for "**Mobilization, Bonds & Insurance**" shall not exceed 10 percent of the total amount of all remaining bid items.

Add to Section 9-1.16E Withholds:

The City will hold retainage from the prime contractor and shall make prompt and regular incremental acceptances of portions, as determined by the City, of the contract work, and pay retainage to the prime contractor based on these acceptances.

The Agency shall hold retainage from the prime contractor and shall make prompt and regular incremental acceptances of portions, as determined by the Agency of the contract work and pay retainage to the prime contractor based on these acceptances.

The prime contractor or subcontractor shall return all monies withheld in retention from all subcontractors within seven (7) days after receiving payment for work satisfactorily completed and accepted including incremental acceptances of portions of the contract work by the Agency. Any delay or postponement of payment may take place only for good cause and with the Agency's prior written approval. Any violation of these provisions shall subject the violating prime contractor or subcontractor to the penalties, sanctions, and other remedies specified in Section 7108.5 of the California Business and Professions Code and Section 10262 of the California Public Contract Code. This requirement shall not be construed to limit or impair any contractor in the event of a dispute involving late payment or nonpayment by the contractor; deficient subcontractor performance and/or noncompliance by a subcontractor.

Any violation of these provisions of Prompt Progress Payment and Prompt Payment of Withheld Funds to Subcontractors shall subject the violating prime contractor or subcontractor to the penalties, sanctions and other remedies specified therein. These requirements shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the prime contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor.

The City will withhold five (5) percent of all monthly progress payments as retention to assure completion and payment of labor and materials. Retention will be released to the Contractor thirty- five (35) calendar days after the Notice of Completion is Approved by City Council.

In accordance with Public Contract Code Section 22300, securities shall be permitted in substitution of money withheld by the City to ensure performance under this contract. At the request and expense of the Contractor, securities equivalent to the amount withheld shall be deposited with the City, or with a state or federally charged bank in this state as the escrow agent, who shall then pay such moneys to the Contractor. Upon satisfactory completion of the contract, the securities shall be returned to the Contractor.

Alternatively, the Contractor may request and the City shall make payment of retentions earned directly to the escrow agent at the expense of the Contractor. At the expense of the Contractor, the Contractor may direct the investment of the payments into securities and the Contractor shall receive the interest earned on the investments upon the same terms provided for in this section for securities deposited by the Contractor. Upon satisfactory completion of the contract, the Contractor shall receive from the escrow agent all securities, interest, and payments received by the escrow agent from the City, pursuant to the terms of this section.

Securities eligible for investment under this paragraph shall include those listed in Government Code Section 16430, bank or savings and loan certificates of deposit, interest-bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed to by the Contract and the City. The Contractor shall be the beneficial owner of any securities substituted for moneys withheld and shall receive any interest thereon.

If an escrow agreement is used as security, it shall be null, void and unenforceable unless it is substantially similar to the form stated in Public Contract Code Section 22300.

Replace Section 9-1.16E(4) Stop Notice Withholds with:

The City may withhold payments to cover claims filed under Civil Code § 9000 et seq. Stop payment notice information may be obtained from City.

If at any time there shall be evidence of the existence, whether or not same has been asserted, of any mechanics lien, stop payment notice, or claim arising out of or in connection with the performance or default in performance of this Contract or any subcontract or supply contract entered into by Contractor to perform this Contract, and if the City might become liable for the discharge of or satisfaction of such mechanics lien, stop payment notice, or claim, then the City shall have the right to retain out of any payment then due or thereafter to become due, an amount sufficient to discharge such mechanics lien or stop payment notice or satisfy such claim and to reimburse the City and the representatives of the City for all costs and expenses in connection therewith, including attorneys' fees. Further, the City, in its sole discretion, shall have the right to discharge or satisfy such mechanics lien, stop payment notice, or claim and pay all costs and expenses in connection therewith if the Contractor does not have such mechanics lien, stop payment notice, or claim discharged or satisfied within ten (10) days after receiving notice thereof from the City or unless some other procedure for discharge or satisfaction of such lien or claim is agreed upon between the City and Contractor. If the amounts retained are insufficient for the aforesaid purposes, or if such mechanics lien, stop payment notice, or claim remains undischarged or unsatisfied after all payments

have been made to the Contractor, then the Contractor shall refund to the City all monies that may have been paid to discharge such lien or stop payment notice or satisfy such claims, including the costs, expenses, and attorneys' fees in connection therewith.

If the Contractor or a Subcontractor disputes the correctness or validity or enforceability of any stop payment notice, the City may, in its discretion, permit the Contractor to file with the City a bond, on a form provided by the City, executed by one or more corporate California admitted surety insurers, in an amount equal to one hundred and twenty-five percent (125%) of the claim stated in the stop payment notice conditioned for the payment of any sum which the stop payment notice claimant may recover on the claim together with its costs of suit in the action. Upon the City's acceptance of such bond, the City shall not withhold money from the Contractor on account of the stop payment notice. The surety(ies) upon the stop payment notice release bond shall be different than, and jointly and severally liable to the stop payment notice claimant with, the payment bond surety(ies).

If a Subcontractor or material supplier refuses to furnish a release or waiver required by the City, records a mechanics lien, or files a stop payment notice, the Contractor shall, upon the City's request, furnish a bond satisfactory to the City to release the stop payment notice and shall otherwise fully indemnify the City against such stop payment notice and the City shall enforce its right under the preceding paragraph.

Any lien, stop payment notice, or other claim, filed or asserted after the Contractor's acceptance of the final payment, by any Subcontractor, laborer, material supplier, or others, in connection with or for Work performed under the Contract Documents shall be the sole and exclusive responsibility of the Contractor, who further agrees to indemnify, defend, and hold harmless the City and its council members, officers, agents and employees from and against any claims, demands, or judgment arising out of or associated therewith, including, without limitation, attorneys' fees incurred by the City in connection therewith.

Replace *Reserved* in Section 9-1.16E(6) with:

9-1.16E(6) Withhold Amount

The City will withhold 5 percent of all progress payments as retention (Public Contract Code § 7201).

Replace Reserved in Section 9-1.16G with:

9-1.16G Release of Retention

This Contract is subject to the following provisions of California Public Contract Code § 7200 which provides as follows:

(a)(1) This section shall apply with respect to all Contracts entered into on or after January 1, 1999, between a public entity and an original Contractor, between an original Contractor and a Subcontractor, and between all Subcontractors thereunder, relating to the construction of any public Work of improvement.

(2) For purposes of this Section, "public entity" means the state, including every state agency, office, department, division, bureau, board, or commission, a City, county, City and county, including chartered cities and chartered counties, district, special district,

public authority, political subdivision, public corporation, or nonprofit transit corporation wholly owned by a public agency and formed to carry out the purposes of the public agency.

(b) In a Contract between the original Contractor and a Subcontractor, and in a Contract between a Subcontractor and any Subcontractor thereunder, the percentage of the retention proceeds withheld may not exceed the percentage specified in the Contract between the public entity and the original Contractor.

(c) When a performance and payment bond is required in the solicitation for bids, subdivision (b) shall not apply to either of the following:

(1) The original Contractor, if the Subcontractor fails or refuses to provide a performance and payment bond issued by an admitted surety insurer, to the original Contractor.

(2) The Subcontractor, if a Subcontractor thereunder fails or refuses to provide a performance and payment bond issued by an admitted surety insurer, to the Subcontractor.

(d) No party identified in subdivision (b) shall require any other party to waive any provision of this Section.

(e) In the event that the Contractor elects to substitute securities in lieu of retentions, the Contractor may withhold from its Subcontractors, who have not elected to substitute securities in lieu of retentions, the amount of retentions that would have otherwise been withheld.

Replace *Reserved* in Section 9-1.16l with:

9-1.16I City's Right to Disburse Progress and Final Payments by Joint Check or Direct Payments

The City has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and material and equipment suppliers amounts paid by the City to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven (7) days, the City shall have the right to contact Subcontractors and suppliers to ascertain whether they have been properly paid. The City shall not have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law. The City may, in its sole discretion, issue joint checks to the Contractor and its Subcontractors of any tier and material suppliers or to make payments directly to such Subcontractor or supplier in satisfaction of City's obligation to make progress payments or the final payment due hereunder.

Add to the end of Section 9-1.17B Payment Before Final Estimate: 9-1.17B(1) Affidavit of Final Completion and Final Payment

The Contractor shall, upon completion of the Work and final cleaning up, submit to the City a sworn Affidavit of Final Completion on a form CC4 found in Appendix I. Properly submitted Claims in stated amounts may be excluded by the Contractor from the operation of the release if the Claims have not yet been resolved. Within thirty (30) calendar days after receipt of the Affidavit of Completion, the Engineer will inspect the Work and will either (1) reject the requested Affidavit of Final Completion, specifying the defective and/or uncompleted portions of the Work, or (2) accept the Affidavit of Final Completion and submit a request to the City Council for final acceptance of the Work.

9-1.17B(2) Rejection and Revision

If the City rejects the Affidavit of Final Completion, specifying defective and/or uncompleted portions of the Work, the Contractor shall promptly remedy the defective and/or uncompleted portions of the Work. Thereafter, the Contractor shall give the City a revised Affidavit of Final Completion with a new date based on when the defective and/or uncompleted portions of the Work were corrected. The foregoing procedure shall apply successively thereafter until the City accepts Contractor's Affidavit of Final Completion.

9-1.17B(3) Documentation

In addition to the requirements for final payment set forth in the other Contract Documents, the final payment shall not become due until at least sixty (60) calendar days after: (i) Contractor has fully performed the Contract, including all punch list work; and (ii) Contractor has submitted to the City:

- A full, complete and proper Final Application for Payment showing the proposed total amount due the Contractor, segregated as to Contract quantities, changes in the Work, and other basis for payments; deductions made or to be made for prior payments; amounts to be retained; any Claims the Contractor intends to file at that time or a statement that no Claims will be filed; and any unsettled Claims, stating amounts;
- 2. Written consent of surety(ies) to partial/full release of retention/final payment;
- 3. Contractor's written assurance that identified corrective work not complete and accepted will be completed by a stated date agreeable to the City;
- 4. The required Record Drawings (in reproducible format);
- 5. Reasonable proof that taxes, fees and similar obligations of Contractor have been paid;
- 6. Documentation that Contractor has inspected, tested, and adjusted performance of every system or facility of the Work to ensure that overall performance is in compliance with terms of the Contract Documents;
- 7. Reasonable proof that Contractor has discontinued and removed temporary facilities and services from the Site, along with construction tools and facilities, forms, and similar items except for Contractor's field office;
- 8. Reasonable proof that Contractor has provided instruction for the City's operating personnel on systems and equipment operational requirements;
- 9. A report on performance of completed installations after adjustment that appear unable to comply with the requirements of the Contract Documents;
- 10. The operating manuals for operating and maintaining the Work; and
- 11. Four (4) copies of all warranties from vendors and Subcontractors, operation and maintenance manuals, instructions and related agreements, equipment certifications and similar documents, and maintenance and operating instructions.

The Engineer reserves the right to not require any of the above submittals which the Engineer determines, in his/her sole discretion, is not applicable to a particular project.

9-1.17B(4) Disbursement of Final Payment

Pursuant to California Public Contract Code section 7107, if there is any dispute between the City and the Contractor at the time that disbursement of the final payment is due, the

City may withhold from disbursement of the final payment an amount not to exceed one hundred fifty percent (150%) of the amount in dispute.

9-1.17B(5) No Waiver of Claims by City

The making of final payment shall not constitute a waiver of any Claims by the City including, but not limited to:

- 1. unsettled stop payment notices;
- 2. faulty or defective Work;
- 3. failure of the Work to comply with the requirements of the Contract Documents;
- 4. terms of special warranties required by the Contract Documents; or
- 5. any other cause, unless specifically waived by the City in writing.

9-1.17B(6) Waiver Of Claims By Contractor, Subcontractors, And Suppliers

Acceptance of final payment by the Contractor, a Subcontractor, or a material supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

Add to Section 9-1.17D Final Payment and Claims:

The Contractor shall submit Form CC4: <u>Final Release Form</u>. This form must accompany all requests for final payment (see Appendix I).

Delete Section 9-1.22 ARBITRATION:

DIVISION II GENERAL CONSTRUCTION

10 GENERAL

Replace Reserved Section 10-1.02A General with:

The Contractor's attention is directed to Sections 8-1.05 TIME of the State Standard Specifications and these Special Provisions for the number of days allowed for this work.

The first order of work shall be for the Contractor to contact Underground Service Alert (U.S.A.) and to verify the location of all utilities in the vicinity of the work.

Attention is directed to Section 8-1.11 UTILITY AND NON-HIGHWAY WORK and Section 19-1.01A(1) POTHOLE UTILITIES of these Special Provisions..

The Contractor shall prepare a traffic control plan that conforms to Section 12 TEMPORARY TRAFFIC CONTROL of the State Standard Specifications, the California MUTCD and as described within these Special Provisions prior to construction of each location. The traffic control plan shall include details regarding traffic signal operations to be approved by the Engineer.

Attention is directed to Section 12-4 MAINTAINING TRAFFIC and Section 12-6 TEMPORARY PAVEMENT DELINEATION of the State Standard Specifications.

The work shall be performed in conformance with the phases and stages of construction shown on the plans. Non-conflicting work in subsequent stages may proceed concurrently with work in preceding stages, provided satisfactory progress is maintained in the preceding stages of construction and with Engineer's written approval.

Add to the end of Section 10-1.02C(2) Irrigation Facilities:

Protect any irrigation component to be relocated before performing any other construction activity in the area.

Add to the 3rd paragraph of Section 10-6 WATERING:

Nonpotable water must not be stream water.

12 TEMPORARY TRAFFIC CONTROL

Add to the end of Section 12-1.01 GENERAL:

12-1.01A Traffic Maintenance

Attention is directed to Sections 7-1.03 PUBLIC CONVENIENCE, 7-1.04, PUBLIC SAFETY, and Section 12 TEMPORARY TRAFFIC CONTROL of the State Standard Specifications and to the Section 7-1.04 PUBLIC SAFETY elsewhere in these Special Provisions. Nothing in these Special Provisions shall be construed as relieving the Contractor from the responsibilities specified in Section 7-1.04 PUBLIC SAFETY of the State Standard Specifications.

In the State Standard Plans, Note 5 on Standard Plan T11, Note 6 on Standard Plan T12, and Note 5 on Standard Plan T13 are revised to read:

All traffic cones used for night work or remaining in the roadway overnight shall have reflective cone sleeves as specified in the specifications.

12-1.01B Traffic Control Plan

At the pre-construction meeting, the Contractor shall submit a traffic control plan showing traffic control measures and/or, if approved, detours for vehicles and pedestrians affected by the construction work. A maximum of five (5) working days will be required to review and provide the Contractor with comments on the plan. The Contractor shall revise the plan per the City's comments until the plan is accepted by the Engineer. The Contractor will not be allowed to begin work until the Engineer has accepted the traffic control plan.

The Traffic Control Plan shall cover all stages of work, per site, and include (but not limited to) the following information and detail: (1) Street closures and detours including pedestrian access and detours; (2) construction, warning, detour and restriction signs, including "No Parking", "Loose Gravel", "Construction Area Speed limit Signs," and "Bump Ahead" signs; (3) temporary striping and pavement markers; (4) barricades; (5) flashing arrow signs; (6) lighted message boards; (7) portable delineators; (8) traffic cones; (9) lights, flares, flaggers, and spacings.

A copy of the approved Traffic Control Plan must be kept at the job site at all times.

Temporary lane closures will be allowed only during approved working hours. Contractor shall provide at least one lane in each direction on all existing streets throughout the construction project unless otherwise approved in writing by the Engineer.

When work is performed within an intersection, the Contractor shall place the traffic signal in red flash. The Contractor shall submit notification at least 48 hours in advance of placing a traffic signal on flashing red. The City shall provide written approval prior to signal reprogramming. If no work is being performed with an intersection, the Contractor shall place the traffic signal into normal operations. Flaggers are required to control traffic at intersections placed in red flash.

The Contractor shall cooperate with and notify the local police and fire department, ambulance services, post office, refuse collectors, Goleta Union School District, Santa Barbara Unified School District, Santa Barbara Metropolitan Transit District, and residents of proposed construction operations and traffic control operations a minimum of ten (10) working days before work is to begin in each work area. If changes are made to the traffic control plan, Contractor shall re-notify at least two (2) working days before work is to begin. In addition, the Contractor shall make available a 24-hour telephone number in case of emergencies and/or problems.

The Contractor will be responsible for notifying residents and businesses five (5) calendar days in advance of the proposed construction. Notifications shall be distributed to residents and businesses within a 100 feet radius of the job limits, including residents and businesses located on streets adjacent to the construction.

Notifications to affected residents and businesses within the project area shall consist of two (2) phases.

The first phase notifies the affected residents and businesses of the upcoming construction through the use of "door hanger" type formatted notifications. The notification shall state the street name, the working hours, and the anticipated begin and completion dates for each street. A sample of the required notification is located within Appendix E of these Special Provisions. The Contractor shall distribute the door hanger notifications a minimum of five (5) working days in advance of the work.

At the pre-construction meeting, Contractor shall provide the Engineer a copy of the proposed notification letter for acceptance.

Notifications shall be tucked neatly in doorjambs, handles, or partially under mats. Notifications shall not be glued, stapled, tacked, or otherwise attached to property. The Contractor shall take care to stay on designated walkways during delivery of notifications and be polite to citizens encountered.

The second phase consists of the Contractor posting "No Parking" signs on barricades 48 hours prior to the work. The "No Parking" signs shall also include the exact working day that the resurfacing work will take place. A warning indicating that vehicles will be towed away at the owner's expense shall also be included on the "No Parking" signs. In addition, the Contractor shall make available a 24-hour telephone number in case of emergencies and/or problems and shall post the telephone number on the "No Parking" signs. At the pre-construction meeting, Contractor shall submit to the Engineer a sample "No Parking" sign for acceptance. The Contractor shall be responsible for placing temporary "No Parking" signs in advance of any construction activity. Barricades shall be placed a maximum of 500 feet apart, on both sides of the affected street.

The Contractor shall be responsible for placing "Construction Speed Limit" signs on both sides of the affected street one (1) hour prior to the Street being opened to traffic. The speed limit for the "Construction Speed Limit" signs cannot be less than 10 mph below the posted speed. At the pre-construction meeting, Contractor shall submit to the Engineer a sample

"Construction Speed Limit" sign for acceptance. Signs shall be placed a maximum of 500 feet apart, on both sides of the affected street.

Emergency access to driveways, intersections, and residential streets shall be maintained at all times. If vehicles are parked in the working area, the Contractor shall not attempt to move the vehicle. The Contractor shall notify the Engineer immediately, and the Engineer shall make proper arrangements to remove the vehicle.

Lane and street closure shall not be allowed without proper advance warning devices, signing and flag persons in conformance with the State Standard Specifications and these Special Provisions. At the completion of each working day, all lanes of traffic shall be open to the public. Street closure shall not be allowed on schedule refuse collections days.

No separate payment will be made for any item of Traffic Control and Maintenance set forth in the State Standard Specifications to be paid for as extra work. Full compensation for all Traffic Control and Maintenance shall be included in this bid item.

The provisions in this section will not relieve the Contractor from his/her responsibility to provide such additional devices or take such measures as may be necessary to comply with the provisions in Section 7-1.04 PUBLIC SAFETY of the State Standard Specifications.

Full compensation for complying with the above requirements shall be considered as included in the contract price paid for "**Traffic Control, Traffic Control Plan, and Traffic Control Maintenance**" and no additional compensation will be allowed.

12-1.01C Traffic Control

Traffic Control shall include all labor, tools, equipment and materials required to provide, maintain, and remove all signage, flagmen, temporary barricades, and appurtenances to provide traffic control within the project limits as set forth in the State Standard Specifications, these Special Provisions, and as directed by the Engineer.

A specialty construction zone traffic control Contractor, shall be responsible for setting up and removing all traffic control. A specialty Contractor includes a Contractor whose operations are concerned with preparing or removing roadway construction zones, lane closures, flagging, or traffic diversions on roadways, utilizing portable devices, such as cones, delineators, barricades, sign stands, flashing beacons, flashing arrow trailers, and changeable message signs, on roadways including, but not limited to, public streets, highways, or any public conveyance.

The Contractor shall have on their payroll a person responsible for all traffic control required for this project. The person shall be on site at all times whenever traffic control is in effect. Contractor shall identify this person at the pre-construction meeting.

Should the Contractor decide to subcontract the traffic control portion of this project, the subcontractor shall be available as previously described. In addition, the Contractor shall also appoint a person to oversee the traffic control operations. The Contractor's appointee

shall be available and responsible to implement the necessary traffic control plan according to the accepted traffic control plan and the latest edition of the California Manual on Uniform Traffic Control Devices (MUTCD).

Any vehicle used to place, maintain, or remove components of a traffic control system on multilane highways at night shall be equipped with a Type II flashing arrow sign which shall be in operation at all times while the vehicle is being used for placing, maintaining, or removing said components. The sign shall be controllable by the operator of the vehicle while the vehicle is in motion.

During the working hours as set forth above, the Contractor may, with the Engineer's approval, close one of the traffic lanes in each direction to perform the required work. Lane closure shall not be allowed without proper advance warning devices and signing, and flag person control in conformance with the State Standard Specifications, and these Special Provisions. The Engineer shall be the sole judge of the spacing, length, and sequence of the lane closure areas. At the completion of each working day, all existing lanes of traffic shall be maintained open to traffic and temporary traffic markers shall be placed (if necessary). Provisions must be made for the uninterrupted passage of emergency vehicles through the project limits at all times, regardless of controlled traffic conditions existing at the time.

If any component in the traffic control system is displaced, or ceases to operate or function as specified, from any cause, during the progress of the work, the Contractor shall immediately repair said component to its original condition or replace said component and shall restore the component to its original location.

The Contractor shall be responsible for making access available at any time during the workday to emergency vehicles such as fire/rescue units, ambulances, and police cars.

The Contractor shall cooperate and allow the City work crews to use the traffic control system when set up for the Contractor's work. The Contractor is not obligated to maintain the traffic control system beyond his/her scheduled activities.

Full compensation for complying with the above requirements shall be considered as included in the contract price paid for "**Traffic Control, Traffic Control Plan, and Traffic Control Maintenance**" and no additional compensation will be allowed.

Intersection Detours plan shall be submitted and accepted to the Engineer at least five (5) working days prior to the start of any work. When the intersection detour plan is in place the intersection shall be in red flash, have flaggers, and kept open to through traffic.

At all intersections, the Contractor shall provide a minimum of two (2) flaggers per intersection while the intersections are in red flash, as determined by the Engineer.

The Contractor shall diligently progress with operations within signalized intersections and communicate with the Engineer for restoring signalized intersections to normal operations once the Contractor's operations are complete within the limits of signalized intersections.

12-1.01D Contractor Conformance to Traffic Lane Closure Hours

Non-compliance with the traffic lane closure hours will result in a deduction from the Contractor's progress payment as outlined in Section 8-1.10B FAILURE TO COMPLETE WORK PARTS WITHIN SPECIFIED TIMES of these Special Provisions.

Delete Section 12-1.04 Payment:

Replace Section 12-3.01D Payment with:

Notwithstanding any provisions of the State Standard Specifications and these Special Provisions to contrary, the contract lump sum price for "**Traffic Control, Traffic Control Plan, and Traffic Control Maintenance**" will constitute full compensation for furnishing, installing, and removing traffic control devices, including signs, covers, lights, flares, cones, barricades, flagmen, and other items necessary for the safety, sole convenience, and direction of public traffic through and around the work area, as specified in the State Standard Specifications, these Special Provisions, and as directed by the Engineer.

The provisions in this section will not relieve the Contractor from his responsibility to provide such additional devices or take such measures as may be necessary to comply with the provisions in Section 7-1.04 PUBLIC SAFETY of the State Standard Specifications.

Replace Section 12-3.02 TRAFFIC CONES with:

During the hours of darkness traffic cones shall be affixed with reflective cone sleeves. The reflective sheeting of sleeves on the traffic cones shall be visible at 1,000 feet at night under illumination of legal high beam headlights, by persons with vision of or corrected to 20/20.

Reflective cone sleeves shall conform to the following:

- 1. Removable flexible reflective cone sleeves shall be fabricated from the reflective sheeting specified in these Special Provisions, have a minimum height of 13 inches and shall be placed a maximum of 3 inches from the top of the cone. The sleeves shall not be in place during daylight hours.
- 2. Permanently affixed semitransparent reflective cone sleeves shall be fabricated from the semitransparent reflective sheeting specified in these Special Provisions, have a minimum height of 13 inches, and shall be placed a maximum of 3 inches from the top of the cone. Traffic cones with semitransparent reflective cone sleeves may be used during daylight hours.
- 3. Permanently affixed double band reflective cone sleeves shall have 2 white reflective bands. The top band shall be 6 inches in height, placed a maximum of 4 inches from the top of the cone. The lower band shall be 4 inches in height, placed 2 inches below the bottom of the top band. Traffic cones with double band reflective cone sleeves may be used during daylight hours.

The type of reflective cone sleeve used shall be at the option of the Contractor. Only one type of reflective cone sleeve shall be used on the project.

The Contractor shall be responsible for informing the public of the traffic conditions existing within the construction area at all times by placement of appropriate warning and advisory signs. The Contractor shall provide and maintain all traffic control and safety items. The Contractor assumes sole and complete responsibility for job and site conditions during the course of construction, including safety of all persons and property. This requirement shall apply continuously 24 hours/day and shall not be limited to normal working hours.

Full compensation for complying with the above requirements shall be considered as included in the contract price paid for "**Traffic Control, Traffic Control Plan, and Traffic Control Maintenance**" and no additional compensation will be allowed.

Add to Section 12-3.11 CONSTRUCTION AREA SIGNS:

Construction area signs shall be furnished, installed, maintained, and removed when no longer required in accordance with the provisions in Section 12 TEMPORARY TRAFFIC CONTROL of the State Standard Specifications and these Special Provisions.

Replace Not Used in Section 12-3.11B(5)(a) of the RSS:

Provide six (6) C48 (CA) and two (2) Measure A project funding identification signs as shown in Appendix J Engineer provides the year of completion for the legend on the sign. Install a sign overlay for the year of completion within fifteen (15) days of notification.

Add to Section 12-3.32 PORTABLE CHANGEABLE MESSAGE SIGNS:

12-3.32 PORTABLE CHANGEABLE MESSAGE SIGN

In addition to Section 12-3.32 PORTABLE CHANGEABLE MESSAGE SIGNS of the State Standard Specifications, portable changeable message sign shall be furnished, placed, operated and maintained for the duration of the project at those locations indicated on the plans or where designed by the Engineer in conformance with the provisions in Section 12 TEMPORARY TRAFFIC CONTROL of the State Standard Specifications and these Special Provisions. Contractor shall provide portable changeable message signs at the following locations:

See Appendix K for locations of changeable message signs.

Portable changeable message signs shall be placed at least ten (10) working days prior to the start of any work and shall remain in place until all work (including striping) is complete. Changeable messages signs shall state the street the work is taking place, the dates, and the time of work. Changeable messages signs shall be turned off after the completion of the final striping application and shall be turned on five (5) working days prior to striping placement.

The contract unit price paid per each Portable Changeable Message Signs shall include full compensation for furnishing all labor, materials, tools, equipment, maintenance, removal, and incidentals, and for doing all work involved in placing and maintaining Changeable Message Signs, complete in place, as shown on the plans, as specified in the State Standard Specifications and these Special Provisions, and as directed by the Engineer and no additional compensation will be allowed therefor

Add to Section 12-4.01C Construction:

Provide the following Temporary Traffic Control Measures:

1. Provide detours for emergency vehicles during closures

2. Notify the residents or owners of any properties within a 100 feet radius of the job limits of the construction schedule at least five (5) calendar days before construction activities that affects their access to nearby streets or directly impacts access to their property

3. Provide access to all affected properties during construction

4. Provide alternative routes for bicycles and pedestrians as needed

Add between the 1st and 2nd paragraphs of Section 12-4.02A(3)(c) Contingency Plans for Closures:

Submit a contingency plan for each of the following activities:

- 1. HMA paving.
- 2. Shifting traffic between stages.
- 3. Striping

Add to the end of Section 12-4.02C(1) General:

Keep the full width of the traveled way open to traffic when no active construction activities are occurring in the traveled way or within six (6) feet of the traveled way. Keep the full width of the ramp traveled way open for use by traffic on designated holidays.

Add to the end of Section 12-4.02C(3)(a) General of the RSS:

If work vehicles or equipment are parked on the shoulder within six (6) feet of a traffic lane of a freeway or expressway, close the shoulder area as shown on Standard Plan T10.

Replace the 1st paragraph of Section 12-4.02C(7)(a) General of the RSS with:

Control traffic using stationary closures, except the Contractor may use a moving closure during traffic striping and pavement marker placement using a bituminous adhesive. Do not use a moving lane closure when grinding for recessed striping and recessed markers.

Add to the end of Section 12-4.02C(7)(b) Stationary Closures of the RSS:

Except for one-way-reversing traffic-control lane closures, the maximum length of the work area inside a closure is 0.5 miles.

Not more than two (2) stationary closures are allowed in each direction of travel at one time.

Unless authorized by the Engineer, concurrent stationary closures in the same direction of travel must be spaced no closer than one (1) mile apart

2025 ARTERIAL PAVEMENT PROJECT CITY PROJECT NO. N/A SP-83 Closure spacing is the distance between the last cone of the upstream closure and the temporary sign W20-1 of the downstream closure. The number of lanes open in the upstream closures must be less than or equal to the number of lanes open in the downstream closures. For multiple closures in each direction of travel, pick up the downstream closures first.

Add Section 12-8 MEASUREMENT AND PAYMENT:

12-8 MEASUREMENT AND PAYMENT

All work for traffic control including the work identified in this section shall be included in the lump sum item for "Traffic Control, Traffic Control Plan, and Traffic Control Maintenance" in the Bid Schedule. The work shall include full compensation for furnishing all labor including flagging costs, materials (including signs, barricades, delineators, CMSs, and other warning devices), tools, equipment, and incidentals, for doing all the work involved in placing, removing, storing, maintaining, moving to new locations, replacing, and disposing of the components of the traffic control system, postings, notifications, street closures, temporary pavement delineation, as specified in the State Standard Specifications and these Special Provisions, and as directed by Engineer.

No separate payment will be made for any item of Traffic Control, Traffic Control Plan, and Traffic Control Maintenance set forth in the State Standard Specifications to be paid for as extra work.

13 WATER POLLUTION CONTROL

In addition to the requirements of Section 13 WATER POLLUTION CONTROL of the State Standard Specifications, Best Management Practices (BMP) devices conforming to those shown within Appendix L of these Special Provisions shall be installed and maintained by the Contractor. BMP's shall remain in place during the full construction processes, plastic and or roofing paper is not acceptable to be used for drainage covers. If the Engineer determines that there are deficiencies that need attention, the Contractor shall make all the necessary changes within 12 hours. If the Contractor does not complete these changes within the 12-hour period, the Contractor will be charged \$500 per hour until the necessary changes are addressed completely in place to the satisfaction of the Engineer.

Add to Section 13-2.01C Submittals:

A Water Pollution Control Plan template can be found in Appendix M.

Replace Section 13-2.04 PAYMENT with:

13-2.04 Payment

Full compensation for conforming to the requirements of this Section shall be considered as included in the prices paid for lump sum of "**Development, Placement, and Maintenance of Water Pollution Control Plan** and shall include development of plan, materials, application of the materials, maintenance, including labor, equipment, tools and incidentals for this item of work and no additional compensation will be allowed therefor.

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14 ENVIRONMENTAL STEWARDSHIP

Replace Section 14-2.03A General with:

If archaeological materials, including but not limited to human skeletal material and disarticulated human bone, are discovered at the job site, protect and leave undisturbed and in place archaeological materials in accordance with the following codes and these Special Provisions:

- 1. California Public Resources Code, Division 5, Chapter 1.7 § 5097.5
- 2. California Public Resources Code, Division 5, Chapter 1.75 § 5097.98 and § 5097.99
- 3. California Administrative Code, Title 14 § 4308
- 4. California Penal Code, Part 1, Title 14 § 622-1/2
- 5. California Health and Safety Code, Division 7, Part 1, Chapter 2, § 7050.5

Immediately upon discovery of archaeological materials, stop all work within a 60-foot radius of the archaeological materials and immediately notify the Engineer who will then notify the City. Archaeological materials found during construction are the property of the State. Do not resume work within the 60-foot radius of the find until the Engineer gives the Contractor written approval. If, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of an archeological find or investigation or recovery of archeological materials, the Contractor will be compensated for resulting losses and an extension of time will be granted in the same manner as provided for in Section 8-1.07 DELAYS of the State Standard Specifications.

If remains of Native American origin are discovered during project construction, it will be necessary to comply with state laws concerning the disposition of Native American burials, which fall within NAHC's jurisdiction (PRC 5097). If any human remains are discovered or recognized in any location other than a dedicated cemetery, there will be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until the following steps occur:

- The Santa Barbara County coroner (805-681-4145) has been informed and has determined that no investigation of the cause of death is required. If the remains are of Native American origin, one of the following occurs:
- The descendants of the deceased Native Americans have made a recommendation to the landowner or person responsible for the excavation work for means of treating or disposing of, with appropriate dignity, the human remains and any associated grave goods as provided in PRC 5097.98.
- NAHC has been unable to identify a descendant, or the descendant failed to make a recommendation within twenty-four (24) hours after being notified.

According to the California Health and Safety Code, six (6) or more human burials at one location constitute a cemetery (Section 8100) and disturbance of Native American cemeteries is a felony (Section 7052). Section 7050.5 requires that construction or excavation be stopped in the vicinity of discovered human remains until the coroner can

determine whether the remains are Native American. If the remains are determined to be Native American, the coroner must contact NAHC within twenty-four (24) hours.

Archaeological materials are the physical remains of past human activity and include historic-period archaeological materials and prehistoric Native American archaeological materials. Nonhuman fossils are not considered to be archaeological except when showing direct evidence of human use or alteration or when found in direct physical association with archaeological materials as described in these Special Provisions.

Historic-period archaeological materials include cultural remains beginning with initial European contact in California, but at least fifty (50) years old. Historical archaeological materials include:

- 1. Trash deposits or clearly defined disposal pits containing tin cans, bottles, ceramic dishes, or other refuse indicating previous occupation or use of the site
- 2. Structural remains of stone, brick, concrete, wood, or other building material found above or below ground or
- 3. Human skeletal remains from the historic period, with or without coffins or caskets, including any associated grave goods

Prehistoric Native American archaeological materials include:

- 1. Human skeletal remains or associated burial goods such as beads or ornaments
- 2. Evidence of tool making or hunting such as arrowheads and associated chipping debris of fine-grained materials such as obsidian, chert, or basalt
- 3. Evidence of plant processing such as pestles, grinding slabs, or stone bowls
- 4. Evidence of habitation such as cooking pits, stone hearths, packed or burnt earth floors or
- 5. Remains from food processing such as concentrations of discarded or burnt animal bone, shellfish remains, or burnt rocks used in cooking

The City may use other forces to investigate and recover archaeological materials from the location of the find. When ordered by the Engineer, furnish labor, material, tools and equipment, to secure the location of the find, and assist in the investigation or recovery of archaeological materials and the cost will be paid for as extra work as provided in Section 4-1.05 CHANGES EXTRA WORK of the State Standard Specifications and these Special Provisions.

Add to Section 14-6.03B Bird Protection:

If tree removal is to take place between February 1 through September 30, a qualified biologist retained by the City will conduct a "Preconstruction Nesting Bird Survey" to determine the presence of nesting special-status and non-special-status migratory birds and raptors on the project site. This will be done three (3) working days prior to the start of the construction and the Contractor shall coordinate their schedule to accommodate this survey. Where presence of these species is found in the construction area, the City's biologist will establish and determine the size of a buffer zone around nest trees, shrubs and ground.

The Contractor shall install a temporary high-visibility fence along the buffer zone perimeter of each nest tree, shrub or ground.

Signs shall be installed on, or adjacent to, the temporary fence at two equidistant locations; and shall be visible from where the construction activity area. The size of each sign shall be a minimum of 24 in. x 24 in. and shall contain the following message:

"WARNING. THIS FENCE SHALL NOT BE REMOVED OR RELOCATED WITHOUT WRITTEN AUTHORIZATION FROM THE CITY OF GOLETA."

Replace *Reserved* in Section 14-6.05 with:

14-6.05 OAK ROOT PROTECTION

Do not operate equipment within the dripline of oak trees.

Replace the 2nd paragraph of Section 14-8.02 NOISE CONTROL with:

The noise level from the Contractor's operations, between the hours of 9:00 p.m. and 6:00 a.m., shall not exceed 86 dbA at a distance of 50 feet. This requirement in no way relieves the Contractor from responsibility for complying with local ordinances regulating noise level.

In addition, the Contractor shall conform to the City Goleta Municipal Code Section 17.39.070 NOISE.

All noise-generating project construction activities are limited to Monday through Friday, 8:00 a.m. to 6:00 p.m. Exceptions must be requested in writing and authorized by the Engineer. Prepare a Noise Mitigation Measures submittal for approval in advance of any construction activities planned to be performed after hours or on weekends/holidays. Post a sign at least 24 X 48 inches in size stating the noise limitations at the job site.

Each internal combustion engine, used for any purpose on the job, or related to the job, shall be equipped with a muffler of a type recommended by the manufacturer. Internal combustion engines without an appropriate muffler are not allowed on the job site.

Follow the following general noise reduction strategies:

- 1. Use modern construction equipment
- 2. Plan noisiest operations for times of least intrusion
- 3. Use quieter alternate methods or equipment when possible
- 4. Locate stationary noise sources away from sensitive receiver locations
- 5. Operate equipment at minimum power as feasible

In addition to the requirements of Section 14-8 NOISE AND VIBRATION of the State Standard Specifications, noise level requirements shall apply to all equipment used on the project including, but not limited to, trucks, transit mixers or transient equipment that may not be owned by the Contractor. The use of loud signals shall be avoided in favor of light warnings except those required by safety laws for the protection of personnel. Full compensation for conforming to the requirements of this section shall be considered as included in the prices paid for the various contract items of work involved and no additional compensation will be allowed therefor.

Replace Reserved of Section 14-9.04 with:

14-9.04 CONSTRUCTION DUST CONTROL

Apply water or dust palliative to the site and wash equipment as necessary to control airborne dust. During construction, use water trucks or sprinkler systems to keep all areas of vehicle movement damp to prevent dust from leaving the site and to create a crust after each day's activities cease. At a minimum, wet down such areas in the late morning and after work is completed for the day. Increase watering frequency whenever wind speed exceeds fifteen (15) miles per hour. Dust emissions at adjacent property lines must not exceed twenty (20) percent opacity more than an aggregate of three (3) minutes in any sixty (60)-minute period.

Grading and scraping operations must be suspended when wind speeds exceed twenty (20) mph.

Minimize the amount of disturbed area and limit on-site vehicle speeds to fifteen (15) miles per hour.

Install gravel pads at construction site access points. All gravel, dirt, and construction material must be cleaned from the public right-of-way at a minimum of once a day at the end of the work day.

If importation, exportation, and stockpiling of fill material is needed, soil stockpiled for more than two (2) days must be covered, kept moist, or treated with soil binders to prevent dust generation. Trucks transporting fill material to and from the site must be tarped.

If an area is graded and left undeveloped for over four weeks utilize soil binders or revegetation immediately to inhibit dust generation:

No demolition or construction materials, debris, or waste shall be placed or stored where it may enter sensitive habitat, receiving waters or a storm drain, or be subject to wave, wind, rain, or tidal erosion and dispersion).

No demolition or construction equipment, materials, or activity shall be placed in or occur in any location that would result in impacts to environmentally sensitive habitat areas, streams, wetlands or their buffers.

Any and all debris resulting from demolition or construction activities shall be removed from the project site within 24 hours of completion of the project.

Demolition or construction debris and sediment shall be removed from work areas each day that demolition or construction occurs to prevent the accumulation of sediment and other debris that may be discharged into coastal waters.

All trash and debris shall be disposed in the proper trash and recycling receptacles at the end of every construction day.

The applicant shall provide adequate disposal facilities for solid waste, including excess concrete, produced during demolition or construction.

Debris shall be disposed of at a permitted disposal site or recycled at a permitted recycling facility. If the disposal site is located in the coastal zone, a coastal development permit or an amendment to this permit shall be required before disposal can take place unless the Engineer determines that no amendment or new permit is legally required.

Water for construction purposes as required by these Special Provisions will be provided by the Goleta Water District at the Contractor's expense. The City encourages the Contractor to use reclaimed water when a fill station is located nearby.

Water required for controlling dust, caused by the Contractor's operations and the passage of traffic through the construction site shall be applied as necessary, at the Contractor's expense. The Contractor shall, whenever possible and not in conflict with these Special Provisions, minimize the use of water during construction of the project. Watering equipment shall be kept in good working order and water leaks shall be repaired promptly.

Add to the end of Section 14-11.02 DISCOVERY OF UNANTICIPATED ASBESTOS AND HAZARDOUS SUBSTANCES:

In conformance with Section 25914.1 of the Health and Safety Code, removal of asbestos or hazardous substances including exploratory work to identify and determine the extent of the asbestos or hazardous substance will be performed by separate contract.

If delay of work in the area delays the current controlling operation, the delay will be considered a right of way delay and the Contractor will be compensated for the delay in conformance with the provisions in Section 8-1.07 DELAYS of the State Standard Specifications and these Special Provisions.

15 EXISTING FACILITIES

Add to the end of Section 15-1.03A General:

In addition to Section 5-1.36 PROPERTY AND FACILITY PRESERVATION of the State Standard Specifications the following shall apply. Contractor shall protect existing pavement, striping, manholes, utilities, sidewalks, curbs, gutter, curb ramps, valley gutters, and driveways at all equipment crossings. Contractor shall provide materials to shore and brace excavation areas in order to prevent existing structures, private properties and permanent improvements from failure or damage during construction. If requested, provide shoring design calculations and details for review by Engineer. Damage to existing structures, private properties, and permanent improvements due to construction work conducted by Contractor shall be restored to existing or better condition with no additional cost to City.

Contractor agrees to assume sole and complete responsibility for protection of public and private property in the vicinity of the job site and further agrees to, at Contractor's expense, repair or replace to original condition all existing improvements within or in the vicinity of the job site which are not designated for removal, and which are damaged or removed as a result of Contractor's operations.

Repair or replacement must be completed within three (3) working days from the date the damage occurred, unless immediate repair or replacement is determined to be necessary by Engineer. If Contractor fails to restore existing improvements in a timely manner, within the timeframe specified, City may complete the work and costs will be deducted from payments due Contractor.

Contractor must coordinate operations such that damage to newly constructed improvements is avoided. In the event newly constructed improvements, shown on the Contract Documents, interfere with other project work or is necessary for safety or access and must be removed and replaced, City will only pay for the improvements to be constructed one time. Multiple replacements or work necessary for the convenience of Contractor shall be considered performed at Contractor's expense.

Replace Section 15-1.03B Removing Concrete with:

Existing concrete ramp shall be removed fully. Contractor shall use appropriate means and methods to remove entire ramp, ensuring that adjacent improvements are not damaged during removal. Removed material shall be disposed of in a legal manner.

Replace *Reserved* in Section 15-1.03D with:

Prior to cold planing on streets to have a uniform depth of the existing surface removed, all utility frames, covers, grates and manholes shall be lowered such that the cutting teeth of the planing machine passes over the adjusted lid without causing damage to the lid or frame. Contractor shall not start lowering utilities sooner than ten (10) working days before paving. Contractor shall be responsible for maintaining any temporary asphalt fill material over these facilities until the final paving surface is installed. The Contractor shall

furnish and install new utility boxes where affected by construction activities. Within two (2) working days after final paving, the Contractor shall clearly mark or reference all lowered utilities in case emergency access is required by the agency responsible for operation of the sewer and water system.

All utilities must be raised within ten (10) working days of final paving. If several lifts of pavement are to be placed, the manholes shall be raised if the paving operation ceases for more than seventy-two (72) hours as approved by the Engineer.

Dirt, rocks or debris shall not be permitted to enter sewer or storm drain lines. When manhole adjustment involves excavation or concrete removal, a temporary cover shall be placed to prevent entry of material into the manhole, sewer and storm drain pipes.

Replace Section 15-1.04 PAYMENT with:

Measurement and payment for "**Remove & Dispose PCC Ramp**" will be paid on a unit cost basis as identified in the Bid Schedule. This work will include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in removing the existing concrete ramp and disposing of the removed materials in a legal manner, as well as keeping adjacent improvements undamaged. No additional compensation will be allowed, therefor.

Measurement and payment for the various utility adjustment items will be paid on a unit cost basis as identified in the Bid Schedule. This work will include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in lowering and raising utility frames and covers to grade, complete in place, including coordination with the utility companies, Engineer, and City Surveyors, salvaging existing or furnishing new utility frames and covers, concrete, mortar, and HMA (Type A), as shown on the plans, as specified in the State Standard Specifications and these Special Provisions, and as directed by Engineer. No additional compensation will be allowed, therefor.

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DIVISION III EARTHWORK AND LANDSCAPE

19 EARTHWORK

Add Section 19-1.01A(1):

19-1.01A(1) Pothole Utilities

Prior to construction, the Contractor shall contact Underground Service Alert (U.S.A.) to field locate and mark at the surface, existing utilities and utilities structures within the project area. The Contractor shall "pothole" existing underground utilities at any location where an existing utility may be in conflict with the proposed work. The pothole information shall be submitted to the Engineer ten (10) working days after the Notice to Proceed. Submit information a minimum of ten working days in advance of starting construction. Utility agencies shall be provided a notice of at least seventy-two (72) hours prior to potholing their facilities to schedule field personnel to be onsite to observe and advise during potholing operations. If existing potholed utility information is shown on the Plans or provided in Supplemental Project Information, the City makes no guarantee that the potholed underground utility remains at the same alignment and depth away from the pothole location.

At the pre-construction meeting, the Contractor shall submit a potholing plan and schedule showing the pothole locations. A maximum of five (5) working days will be required to review and provide the Contractor with comments on the plan and schedule. The Contractor shall revise the plan per the City's comments until the plan is accepted by the Engineer. The Contractor will not be allowed to begin work until the Engineer has accepted the traffic control plan.

A representative from the City shall be onsite during the pothole operations. The Contractor shall submit pothole and survey information to the Engineer as stated in these Special Provisions.

The following information shall be collected for each pothole:

- 1. Description of location, street name, stationing, offset, and alignment (e.g. parallel or perpendicular to pipeline)
- 2. Street structural section
 - 2. Size and type of utility and utility owner
- 3. Depth of utility infrastructure measured from finished grade to the top of utility.
- 4. Where duct banks or concrete encased utilities are encountered, the top and bottom depths from finished grade shall be collected and included with the above information.

In the event realignment of the proposed improvement is necessary because of conflicts, and the realignment materially changes the character of the planned work, the work can be performed at agreed lump sum, force account, or increases or decreases in the unit cost of the Work per the provisions of Section 4-1.05 CHANGES OF EXTRA WORK and Section 4-1.06 DIFFERING SITE CONDITIONS (23 CFR 635.109) of the State Standard Specifications.

Backfilling of potholing excavations shall be per the provisions contained in the General Requirements of these Special Provisions and the requirements of the State Standard Specifications, and the City of Goleta Engineering Design Standards.

Potholing shall be performed such that the trench width does not exceed two and onehalf feet (2.5'). Excavation exceeding 2.5 feet in width shall not be calculated in the volume computed for payment. Unless otherwise approved by the Engineer, the maximum trench length shall be six feet (6').

Payment

Full compensation for conforming to the requirements of this section shall be considered as included in the prices paid for the various contract items and no additional compensation will be allowed therefor.

Add to the end of Section 19-1.03B Unsuitable Material:

Should unsuitable material be encountered which, in the opinion of the Engineer, cannot be stabilized, the Contractor shall remove the unsuitable material to the dimensions and limits directed by the Engineer. The Contractor shall use extra care in excavating unsuitable materials so as not to aggravate the conditions. If, in the opinion of the Engineer, the Contractor's methods and equipment are increasing the amount of unsuitable materials to be excavated, the Engineer will require the Contractor to take necessary steps to correct the situation. Should the problem continue, the Contractor shall pay all costs beginning from the time correction steps were last implemented.

Class 2 Aggregate Base (AB) shall be used and shall conform to the requirements of Section 26 AGGREGATE BASES, of the State Standard Specifications. Native soil is not permitted for use as aggregate base material. No additional compensation will be made for hauling, stockpiling, drying, wetting, or any other processing of native soil or AB necessary to achieve compliance with the contract specifications.

When unsuitable material is removed and disposed of, the resulting space shall be filled with material suitable for the planned use. The pay quantity for backfill shall be the same as that computed for unsuitable material excavation as specified herein. Unsuitable materials shall be removed from the job site and not incorporated into embankments.

The estimated quantity for Unsuitable Material is for bidding purposes only. The quantity can be extended, reduced, or deleted at the discretion of the Engineer, with no change in the unit bid price. If unsuitable material is discovered, the Contractor will notify the Engineer for approval of excavation and backfill. If the Engineer does not approve that the material is unsuitable prior to excavation and backfill, the Contractor will be responsible for the cost of excavation and backfill.

Add Section 19-1.03B(1):

19-1.03B(1) Payment

The contract unit price paid per cubic yard for Unsuitable Material shall include full compensation for furnishing all labor, materials, tools, equipment, excavation, backfill,

aggregate base, compaction, removal and incidentals, and for doing all work involved in constructing Unsuitable Material, complete in place, as shown on the plans, as specified in the State Standard Specifications and these Special Provisions, and as directed by the Engineer and no additional compensation will be allowed therefor

Add to Section 19-9.01 GENERAL:

This work shall consist of scarifying the existing shoulder material and placing additional material to bring the shoulder up to the new pavement surface as specified.

Existing roadside drainage patterns shall be maintained. Where unusual shoulder conditions not represented by the typical details are encountered, the Contractor shall notify the Engineer twenty-four (24) hours in advance of shoulder work. The Engineer will specify the adjustments to be used to ensure that drainage patterns are maintained.

Shoulder backing shall start no sooner than three (3) calendar days and shall be completed no more than seven (7) calendar days after completion of the adjacent paving.

Add to the end of Section 19-9.02 MATERIALS:

Pavement grindings shall not be used for shoulder backing material unless the pavement grindings meet the testing requirements as indicated in Section 19-9 SHOULDER BACKING of the State Standard Specifications.

Add to Section 19-9.04 PAYMENT:

Shoulder backing will be paid on a **lineal foot** basis along the pavement edge as "**Install Shoulder Backing**". The unit cost bid for shoulder backing will be considered full compensation for furnishing all labor, materials, tools, equipment, transportation, and incidentals; and for performing all the work involved as detailed in the State Standard Specifications, these Special Provisions, and the plans and typical sections. No additional compensation will be allowed therefor.

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20 LANDSCAPE

Add to Section 20-1.01 GENERAL:

These items include root pruning and removal under concrete and pavement repairs, trimming vegetation and tree canopies, tree removal and tree replacement. All work associated with these items are as described herein. Contractor shall coordinate with Engineer to have City Arborist onsite to review and monitor work as needed and receive approval from City Arborist prior to all tree or root trimming, pruning, removal and replacement operations. When requesting City Arborist presence on worksite, Contractor shall provide a minimum of 72-hour notice.

Contractor shall have the following tools available at all times for root and tree work:

- Hand saw
- Pole saw
- Lopper
- Axe
- Hatchet
- Digging bar/spud bar (with cutting end)
- Chainsaw
- Belt sander (60 grit)
- Bosch multi-tool (or similar)
- Reciprocating saw/saws all

Trimming, pruning and removal by other means not listed above is subject to approval by City Arborist.

Replace *Reserved* in Section 20-1.03F with:

20-1.03F Root Pruning And Tree Trimming

20-1.03F(1) Root Pruning And Removal

Contractor shall remove all tree roots under the concrete or pavement to be repaired to a depth of 12 inches below the subgrade. The area where roots have been removed shall be backfilled with native material or Class 2 Aggregate Base. The area to be backfilled shall be scarified prior to the addition of backfill and shall be compacted to 90% relative compaction under concrete repairs and 95% under pavement repairs.

- All root pruning and removal shall be performed under the direct supervision of an International Society of Arboriculture (ISA) certified arborist. All root pruning shall comply with ANSI A300, Part 8 (2020) "Root Management" specifications 85 and 86.2
 86.4 as well as ANSI A300, Part 5 (2019) "Management of Trees During Construction" specification 55.3.
 - The Certified Arborist shall be onsite for pruning of any root that is 2 inches in diameter or larger.

- When roots (2-inch diameter and larger) are encountered during excavation, Contractor shall not tear or break roots using mechanical equipment such as an excavator or backhoe. Hand tools shall be used to expose roots, and roots will be cleanly cut.
- If the cut ends of tree roots will be exposed for more than eight hours, the cut ends of the roots shall be wrapped with fabric then plastic and kept moist until backfill is installed. When backfill is installed, the fabric and plastic shall be removed from the cut ends of roots.

Any damage done to adjacent pavement, concrete or other improvements due to the failure to sever roots at the limits of the repair shall be repaired at Contractor's expense.

20-1.03F(2) Tree Trimming

Contractor shall trim tree canopies at certain intersections where the canopies currently obstruct the visibility of the traffic signal or signage. Contractor shall trim the canopies so that they are at least 15 feet above the roadway surface. Vegetation shall be trimmed a minimum of twelve (12) inches beyond the edge of pavement construction limit, or as necessary for paving operations, HMA dike construction, or concrete improvements.

Landscaping shall be restored back to existing conditions or as close to existing conditions as feasibly possible.

4. Pruning of any root that is 2 inches in diameter or larger shall be performed under the direct supervision of an International Society of Arboriculture (ISA) certified arborist. All root pruning shall comply with ANSI A300, Part 8 (2020) "Root Management" specifications 85 and 86.2 - 86.4 as well as ANSI A300, Part 5 (2019) "Management of Trees During Construction" specification 55.3.

20-1.03F(3) Tree Removal

At the discretion of the Certified Arborist, Contractor shall remove trees that are deemed unstable due to root pruning and removal. Public notification is required no less than ten (10) calendar days prior to removing any trees. The City will post proper public notifications and no tree may be removed until the City verifies that the public notification period is complete.

20-1.03F(4) Damage To Trees

If Contractor damages trees, beyond the root and canopy pruning required to complete construction (as specified by the Certified Arborist), Contractor shall then provide restitution to the City. For trees destroyed, removed, or significantly damaged, restitution shall be calculated using the Cost Approach with the Reproduction Method with the Trunk Formula Technique as set forth in the "Guide for Plant Appraisal, 10th Edition Revised". For trees with damage that can be repaired (below the levels of destroyed, removed, or

significantly damaged), restitution shall be calculated using the Cost Approach with the Repair Method with the Direct Technique as set forth in the aforementioned Guide. The damage assessment and above calculations will be performed by the Certified Arborist.

Add to the end of Section 20-1.04 PAYMENT:

Measurement and payment for "**Prune & Remove Tree Roots Under HMA Repairs**" will be paid on a unit price bid per **square foot** basis as identified in the Bid Schedule and will be considered full compensation for furnishing all labor, materials, tools, equipment, transportation, and incidentals; locating, severing and removing roots; supplying, installing and compacting backfill; coordination with Certified Arborist; and incidentals necessary to complete the work in accordance with the State Standard Specifications and these Special Provisions.

Measurement and Payment for "**Remove Tree**" and "**Trim Vegetation/Tree Canopy in Work Zone**" will be paid at the contract unit price as indicated in the Bid Schedule. The unit costs will include full compensation for furnishing all labor, materials, tools, equipment, transportation, disposal and incidentals; coordination with Certified Arborist; and incidentals necessary to complete the work in accordance with the State Standard Specifications and these Special Provisions.

DIVISION IV SUBBASES AND BASES

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Add to Section 26-1.02 MATERIALS:

26-1.02 MATERIALS

Aggregate base must comply with Section 26, "Aggregate Bases," of the State Standard Specifications and these special provisions.

Aggregate base must be Class 2.

Do not store reclaimed asphalt concrete or aggregate base with reclaimed asphalt concrete within 100 feet measured horizontally of any culvert, watercourse, or bridge.

The restriction that the amount of reclaimed material included in Class 2 aggregate base not exceed 50 percent of the total volume of the aggregate used shall not apply. Aggregate for Class 2 aggregate base may include reclaimed glass. Aggregate base incorporating reclaimed glass shall not be placed at locations where surfacing will not be placed over the aggregate base.

This item of work includes the furnishing, placement, compaction, and removal of temporary aggregate base used during stage construction, as shown on the plans. After removal of temporary pavement the area shall be restored to its original grade, function and finished surface unless otherwise shown on the plans. Measurement and payment shall be the same as that for Class 2 Aggregate Base.

The price paid for Aggregate Base shall be included in unsuitable material bid item and shall include full compensation for furnishing all labor, materials, tools, equipment, compaction, and incidentals, and for doing all work involved in placing Class 2 Aggregate Base, as shown on the plans, as specified in the State Standard Specifications and these special provisions, and as directed by the Engineer.

30 RECLAIMED PAVEMENT

Replace Section 30-4.01C(2)(b) Mix Design with:

The City shall provide the mix design and application rate. Requested changes to application rate by Contractor must have prior approval by Engineer.

Assume two percent (2%) quicklime & two percent (2%) cement for bidding. See bid schedule for more details.

Replace "FDR—Cement Quality Characteristic Sampling Locations and Testing Frequencies" Table in Section 30-4.01D(3)(b) with:

FDR – Quicklime/Cement Quality Characteristic Sampling Locations and Testing Frequencies

Quality	Test	Maximum Sampling and	Sampling Location
5		1 0	Sampling Location
Characteristics	Method	Testing Frequency	
Gradation	CT 202	Test Strip and 1 per Lot	Loose Mix Behind
			Mixer ^a
Quicklime/Cement	Calibrated	Test Strip and 1 per Lot	Under
Spread Rate	tray (or		Quicklime/Cement
	equivalent)		Truck
Unconfined	ASTM D	Test Strip and 1 per 2 Lots	Loose Mix Behind
Compressive	1633		Mixer ^a
Strength			
Laboratory	CT 216	Test Strip and 2 per day, or	Loose Mix Behind
Maximum Wet		1 per change of material	Mixer ^a
Density		(whichever is greater)	
Relative	CT 231	Test Strip and 1 per Lot	Compacted Mix
Compaction ^b			

^a Sample immediately after mixing is complete

^b Verify the moisture content reading made under California Test 231 with California Test 226

Replace Section 30-4.01D(4) Department Acceptance with:

The City accepts FDR—quicklime/cement based on:

- 1. Visual inspection for the following:
 - 1.1. No segregation, raveling, or loose material
 - 1.2. Variance must not be more than 0.05 foot measured from the lower edge of a 12foot straightedge
 - 1.3. Uniform surface texture throughout the work limits
- 2. Compliance with the quality characteristics shown in the following table:

Quality characteristic	Test method	Value
Quicklime/Cement	Calibrated tray or equal	Mix design rate $\pm 5\%$
application rate (lb/sq yd)		5
Relative compaction (min,	California Test 231	95
%, wet density)		
Thickness (ft) ^a	Field Thickness	±0.05 of the thickness
	measurements	shown

FDR—Quicklime/Cement Requirements for Acceptance

^aFDR—quicklime/cement thickness for each lot. The thickness must be within 0.05 foot of the thickness shown. Verify the thickness at a location determined by, and in the presence of the engineer by one of the following methods:

2.1. Excavate a test pit that is at least 1 by 1-foot and use phenolphthalein

2.2. Survey equipment

Replace "FDR-Cement Quality Characteristic Requirements" Table in Section 30-4.02A General with:

Test method	Requirement
California Test 202	
	100
	95–100
	85–100
California Test 226	Mix design ± 2 percent
ASTM D1633 ^a	300 psi (min.)
California Test 216	Use for relative
	compaction calculation
California Test 231	95
	California Test 202 California Test 226 ASTM D1633 ^a California Test 216

FDR-Quicklime/Cement Quality Characteristic Requirements

^aMethod A, except:

1. Test specimens must be compacted under ASTM D1557, Method A or B. 2. Test specimens must be cured by sealing each specimen with 2 layers of plastic at least 4-mil thick. The plastic must be tight around the specimen. Seal all seams with duct tape to prevent moisture loss. Sealed specimens must be placed in an oven for 7 days at 100 ± 5 degrees F. At the end of the cure period, specimens must be removed from the oven and air-cooled. Duct tape and plastic wrap must be removed before capping. Specimens must not be soaked before testing.

^bVerify the moisture content reading made under California Test 231 with California Test 226.

Add Section 30-4.02F:

30-4.02F QUICKLIME

Quicklime must comply with Section 24-2.02 MATERIALS of the State Standard Specifications.

Add to Section 30-4.03A General:

Special instructions for construction timing on quicklime/cement subgrade treatment streets:

 Contractor shall not commence work on quicklime/cement treatment streets until there is a forecasted two-week (14 calendar day) window of dry weather (0% precipitation). Contractor must complete all paving work within the two-week window. Paving work consists of pulverizing existing pavement, base, and native sections, removal of the excess pulverized material, cement or quicklime treatment of the remaining pulverized material, and placement of the hot mix asphalt as shown on the plans. The schedule for this work will be reviewed and approved by City prior to the commencement of work.

During initial mixing of quicklime, maintain the in-place moisture of the basement material to be stabilized within a range of 1 percent below to 2 percent above the optimum moisture.

Add to Section 30-4.03E Mixing:

Mix quicklime on the same day it is applied. After the initial mixing, allow a mellowing period for at least 24 hours before mixing of cement.

Replace paragraphs 4 through 7 of Section 30-4.03G Finishing with:

Apply a coat of diluted asphaltic emulsion to the finished surface when it is damp but free of standing water. The application rate of asphaltic emulsion must be from 0.13 to 0.25 gal/sq yd. Do not water after applying asphaltic emulsion. Do not open to traffic without authorization from the Engineer. The emulsion seal can be waived if Contractor can provide a method to keep the FDR layer moist to provide adequate cement hydration and dust control up to the time the FDR is paved. Do not open to traffic without authorization from the Engineer.

Maintain the FDR—quicklime/cement surface free of ruts, bumps, indentations, raveling, and segregation. Repair damaged FDR—quicklime/cement material with minor HMA.

If thickness checks performed each lot indicates FDR—quicklime/cement thickness is less than the specified thickness by more than 0.05-foot, core in the vicinity of the noncompliant core to determine the extent of the deficient thickness. Remove the FDR—quicklime/cement material deficient in thickness by cold planing to a depth of 0.20-foot below the finished FDR—quicklime/cement grade. Replace the planed FDR—quicklime/cement with the HMA specified for the project and compact under Section 39-2.01C CONSTRUCTION of the State Standard Specifications.

Replace Section 30-4.04 PAYMENT with:

Measurement and Payment for "**Pulverize 1.25**' of Existing Section" will be paid per square foot and include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work involved in pulverization existing pavement structure and underlying material, as shown on the Plans, as specified in the State Standard Specifications, in these Special Provisions, and as directed by Engineer.

Measurement and Payment for "**Trim, Remove and Dispose 0.42**' **Pulverized Material, Regrade**" will be paid per **square foot** and will include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work involved in removing the excess pulverized material, rough grading, as shown on the Plans, as specified in the State Standard Specifications, in these Special Provisions, and as directed by Engineer.

Measurement and Payment for "**Cement Treat 0.83**' **Subgrade, Trim to Top of Subgrade**" will be paid per **square foot** and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, providing quality control, and for doing all work involved in quicklime/cement subgrade treatment, complete in place, including breaking-up, mixing, compacting, trimming, curing, and protecting treated subgrade, as shown on the Plans, as specified in the State Standard Specifications, in these Special Provisions, and as directed by Engineer.

The estimated quantity shown in the bid schedule for quicklime serves as a placeholder and can be revoked if quicklime treatment is not deemed necessary by Engineer's mix design.

Measurement and Payment for "**Cement** for cement treat will be paid for by the **ton** separately from cement subgrade treatment bid items, and shall include furnishing all labor, materials, tools, equipment, incidentals, and for doing all the work involved in quicklime/cement placement and spreading, as shown on the project plans, as specified in the State Standard Specifications, these Special Conditions, Technical Specifications, and as directed by the Engineer.

Quantity of cement is subject to increased or decreased quantity and will be the difference between the specified theoretical quantity of cement or lime and the quantity of cement or lime used. Section 9-1.06B INCREASES OF MORE THAN 25 PERCENT and Section 9-1.06C DECREASES OF MORE THAN 25 PERCENT of the State Standard Specifications not apply to the cement and lime bid items.

DIVISION V SURFACINGS AND PAVEMENTS

37 BITUMINOUS SEALS

Replace Section 37-3.01C(3)(f) Equipment Calibration with:

Each mixer/spreader truck used on the project shall be calibrated in accordance with California Test 109. The trucks shall be calibrated for rock, emulsion, cement, additives, and any mineral filler used. Calibrations shall take place ten (10) working days prior to application of Slurry Seal. The Contractor shall notify the Inspector a minimum of three (3) working days prior to calibration so that City representatives may make arrangements to observe.

For all material calibrated, three (3) consecutive runs per gate setting shall be completed and these three test runs must not deviate from their combined mathematical average by more than 2.0%.

Calibrations will take place at most once a week or as required by the Engineer and no machine will be allowed to work on the project until the calibration has been completed and/or accepted five (5) working days before the start of work. Calibration shall take place within a 45 mile radius of City of Goleta City Hall.

Replace Section 37-3.01C(5)(e) Maintenance Sweeping with:

After completing, setting, and rolling the slurry seal and micro

-surfacing, any loose material shall be immediately removed by sweeping with a vacuum sweeper on the day of application. Interim sweeping using a vacuum sweeper shall be accomplished as more loose material appears. At a minimum, interim sweeping shall be accomplished on the 3rd, 7th, 14th, and 21st day after surfacings. A final post-construction sweeping of all the maintenance streets shall be performed thirty (30) calendar days after completion of all surfacings.

Entire street surfaces, curbs, and gutters, including sidewalks, medians, and driveways, shall be swept to the satisfaction of the City. No loose material will be allowed in the street, gutters, sidewalks, or other areas. If necessary, Contractor shall employ additional vacuum sweepers air blowing, mechanical sweeper, washing, or other methods approved by the Engineer to remove the loose materials.

Final cleaning of the streets shall include removal of any tracked material, misapplied slurry seal, cleaning of all utility covers of any new or old materials, and removal of any miscellaneous debris resulting from construction activities.

Replace Section 37-3.01D Payment with:

Full compensation for equipment calibration shall be considered as included in the contract price paid for the slurry seal bid quantity of work, and no additional compensation will be allowed.

Measurement and payment for sweeping will be paid on a unit cost basis as identified in the Bid Schedule and include full compensation for furnishing all labor, materials, tools,

equipment, hauling, disposal, and incidentals, providing quality control, and for doing all the work involved in sweeping after applications of slurry seals and micro-surfacings on the project streets as shown on the plans, as specified in the State Standard Specifications and in these Special Provisions, and as directed by Engineer.

Add to Section 37-3.02A(4)(c) Department Acceptance: Engineer's Acceptance

Sampling for testing will be taken of the slurry seal in place, at Contractor's expense, to determine the amount of material used. Compliance with the mix design will be verified using City's testing laboratory. Engineer may sample material from stockpiles, trucks, application equipment, or during application.

Add to Section 37-3.02B(1) General:

At least ten working days prior to starting work on placing the slurry seal, Contractor shall submit a mix design for Type II slurry seal. The design shall be prepared in accordance with the International Slurry Seal Association Design Technical Bulletin No. 111. A change in either the aggregate or emulsion during the course of work will require the preparation of a new mix design. In addition to the requirements of Bulletin No. 111, the slurry seal mix design shall also contain 2.5 percent latex.

Add to Section 37-3.02B(2) Asphaltic Emulsions:

Asphaltic emulsion shall be cationic type polymer modified asphaltic emulsion Grade PMCQS-1h.

The asphalt emulsion shall be grade PMCQS1h and shall conform to the following requirements:

Type II Slurry Seal		
Туре	Cationic	
Grade	PMC	QS1h
Properties	Min.	Max
Tests on Emulsion:		
Viscosity SSF @ 25°C, sec AASHTO Designation T-59	15	90
Sieve Test, % AASHTO Designation T-539		0.30
Settlement, 5 days, max ^b ASTM D 244	—	5%
Storage Stability, 1 day, % AASHTO Designation T-59	—	1
Residue by Evaporation, % California Test 331	64	—
Particle Charge AASHTO Designation T-59	Positive	

Tests on Residue from Evaporation Test		
Penetration, 25°C AASHTO Designation: T 49	40	90
Ductility, 25°C, mm AASHTO Designation: T 51	400	—
Torsional Recovery, % California Test 332	21	—
or		
Polymer Content, % California Test 401	3	—

Note:

When the test for polymer content of polymer modified asphaltic emulsion is used, see sampling requirements in Section 94-1.03, "Sampling" of the Standard Specifications.

^bWaived if used within 48 hours of shipment.

Add to Section 37-3.02C(1) General:

<u>General</u>

Contractor shall plan for proper quantities for daily placement of slurry so that it can be fully cured prior to removal of all traffic control. All work, including traffic control, must be removed and open to traffic by the end of the roadways last working hour. Failure to comply will result in either liquidated damages as described in Section 8-1.10B FAILURE TO COMPLETE WORK PARTS WITHIN SPECIFIED TIMES of these Special Provisions or suspension of work.

The minimum width of a traffic lane shall be 12 feet unless approved by the Engineer. One-way traffic control will not be allowed for any arterial streets.

Preparation

All vegetation on pavement surfaces to be slurry sealed shall be removed completely in advance of the slurry seal and as required by Engineer.

The roadway shall be crack sealed prior to slurry seal application.

Low areas and where the pavement has raveled to create holes shall be skin patched prior to slurry sealing.

Slurry seals shall not be placed when the atmospheric temperature is below 65 degrees Fahrenheit or during unsuitable weather, unless approved otherwise by the Engineer. Contractor shall remove and dispose of all painted, preformed, and thermoplastic paint markings; and all raised pavement markers prior to placing slurry seal. Removal methods shall conform to Section 84-9 of the State Standard Specifications. It is Contractor's responsibility to clean pavement surfaces prior to application of the slurry seal. Surfaces shall be free of clay, dust, weeds, and other objectionable materials which may adversely affect bonding of the slurry seal. Cleaning equipment shall be capable of effectively removing clay, dust, and other objectionable materials from the pavement surfaces. Protection and maintenance of the street surface, to the condition required for proper slurry seal application, shall be the sole responsibility of Contractor. Contractor shall reseal all areas of the pavement which have not been sealed properly and completely or have been damaged by traffic.

All surface oil and grease shall be removed, or sealed with emulsified gilsonite or an approved equivalent, prior to application of the slurry seal.

The sites for stockpiling and batching materials shall be clean and free from objectionable materials and shall be located outside the road right-of-way. The Contractor shall be responsible for arranging these sites. If on private property, a written agreement shall be approved by the City prior to commencing operations.

The Contractor shall tie off survey monuments, manholes, water valves, etc., prior to the application of the slurry seal. Immediately before commencing the slurry seal operation, all surface metal utility covers (including survey monuments) shall be protected by thoroughly covering the surface with an appropriate adhesive and oiled or plastic paper. No adhesive material shall be permitted to cover, seal or fill the joint between the frame and cover of the structure. Covers are to be uncovered and cleaned of slurry material by the end of the same workday.

No slurry seal shall be placed until the pavement area has been prepared to the satisfaction of the Engineer, including tie downs for striping dimensions.

Test Strip

The Contractor shall construct a test strip for evaluation by the Engineer ten (10) working days prior to the slurry application and notification. The test strip shall be 500 ft to 1000 ft long, shall consist of the application courses specified. The test strip shall be constructed at the same time of day or night that the full production of slurry will be placed and may be constructed in two (2) days when multiple course applications are specified.

The Engineer will evaluate the test strip during the application of the test strip to determine if the mix design and placement procedure are acceptable. If the mix design or the placement procedure is determined by the Engineer to be unacceptable, the test strip will be rejected, the Contractor shall make modifications, and a new test strip shall be constructed and evaluated by the Engineer. The Contractor will be permitted to notify resident after the Engineer accepts the test strip in writing. The cost of materials and placement of the test strips and the test strips which have been rejected shall be borne by the Contractor and will not be considered as part of the contract work.

If ordered by the Engineer, rejected test strips shall be removed at the Contractors expense.

Add to Section 37-3.02C(4) Placement:

Application

Slurry seal shall be placed at least 24 hours after placement of crack seal. Type II slurry seal shall be applied onto the gutter lip but shall not extend more than 2-inch onto the gutter lip.

Type II Slurry Seal shall be spread at a rate within 15 to 17 pounds of dry aggregate per square yard. The exact rate will be determined by the Engineer. The completed spread shall be within 10 percent of the rate determined by the Engineer.

In addition to the requirements specified in this Section, the Contractor shall remove all vegetation from the surface of and cracks in existing paved surfaces and along the edge of pavement or gutter lips prior to placing Slurry Seal. Pavements impregnated with grease, oil, or fuel shall be thoroughly scrubbed with water and an approved detergent and then flushed and swept clean. Flushing will not be allowed except to clean scrubbed areas.

After the emulsion has broken, the slurry seal shall be rolled with a 6 to 8-ton selfpropelled pneumatic tire roller with a minimum tire pressure of 40 psi. Steel wheel rollers ahll not be used. The roller shall be on site prior to the start of slurry placement. Areas which require rolling shall receive a minimum of two full coverage passes.

Adequate means shall be provided to protect the slurry seal from damage by traffic until such time that the mixture has cured sufficiently so that a slurry seal will not adhere to and be picked up by the tires of the vehicles. In the event the slurry seal does not set in eight hours, Contractor shall not be allowed to place additional material the following day without approval of Engineer.

Hand tools shall be available in order to remove spillage. Ridges or bumps in the finished surface will not be permitted.

The mixture shall be uniform and homogeneous after spreading on the road and shall not show separation of the emulsion and aggregate after settling.

Any slurry seal tracked onto concrete facilities by Contractor's vehicles and equipment or by resident's vehicles shall be removed by power washing or other means at Contractor's expense.

Replace Section 37-3.02D Payment with:

The Slurry Seal shall be paid for by tonnage used, and shall be determined from calibrations and revolutions per day and verified with weigh back tickets. The price for tonnage will be measured through revolutions per day and will include rock and emulsion

revolution counts for payment. The revolutions for each truck will be submitted to the construction inspector prior to the start of work and the final revolution count shall be submitted to the inspector at the end of the day for every day Slurry Seal is applied, work will not be permitted until these requirements are met.

All weight tickets including aggregate and emulsion tickets shall be turned in on a daily basis. Tickets for Material stockpiled at the stockpile and emulsion shall be submitted on a daily basis and no later than the end of the business day. Leftover stockpile aggregate shall be deducted and removed.

Measurement and payment for "**Crack Seal and Slurry Seal (Type II)**" shall be made at the contract unit price, as shown in the Bid Schedule. The contract unit price shall include full compensation for furnishing all labor, materials, tools, equipment, surface preparation, emulsified asphalt, aggregate, rock, pneumatic-tired rollers, calibrations, hauling, test strips, application of slurry seal, and all incidentals necessary to complete the work as specified in the Standard Specifications and these Special Provisions. No additional compensation will be allowed therefor.

Add to Section 37-3.03A(1) Summary:

Micro-surfacing shall consist of mixing a polymer modified, cationic microsurfacing emulsion (MSE), mineral aggregate, water, and additives, proportioned, mixed, and uniformly spread over a properly prepared surface as directed by Engineer. Micro-surfacing should be capable of performing in variable thickness cross-sections such as ruts, scratch courses and milled surfaces.

Add to Section 37-3.03A(3) Submittals:

Contractor shall submit the following items:

- 1. Test reports for Emulsified Asphalt
- 2. Gradation and Test reports for aggregate
- 3. Micro-Surfacing Mix Design

Add to Section 37-3.03B(2) Micro-surfacing Emulsions:

Microsurfacing Emulsion (MSE)

Microsurfacing Emulsion (MSE) shall be homogenous and shall conform to the provisions of these Special Provisions. The polymer shall be milled or blended into the asphalt or blended into the emulsifier solution prior to the emulsification process.

The MSE shall conform to the following requirements when tested in conformance with the following test methods:

Polymer Modified, Cationic Microsurfacing Emulsion (MSE)

Specification	Test Method	Requirement
Designation		
Viscosity SSF @ 25 °C	AASHTO T59	15-90 Seconds
Sieve, max	AASHTO T59	0.30 Percent
Settlement, 5 days, max	ASTM D6930 or	5 Percent
	AASHTO T59	
Storage Stability, 1 day,	AASHTO T59	1 Percent
max		
Residue by Evaporation,	California Test 331	65 Percent
min		

Specification Designation for Residue

	opeoineation Deelghation for Reelade		
Specification Designation	Test Method	Requirement	
Penetration @ 25 °C,	AASHTO T49	40-90	
100g, 5s, 0.1 mm			
Softening Point, min	AASHTO T53	61 °C	
G*, @ 20 °C, 10 rad/sec ^a	AASHTO T315	Report Only	
Phase angle @ 50 °C, 10	AASHTO T315	Report Only	
rad/sec,			
PA (max) - PA base ^b			
Stiffness, @ -12 °C, MPa	AASHTO T313	Report Only	
and M-value			
Torsional Recovery, %	California Test 332	>21%	
Polymer Content, % (by	California Test 402	> 3.5%	
Weight)			
25mm plates for the 50°C test.			
8mm plates for the 20°C to	esting and		

Water and Additives

Water shall be of such quality that the asphalt will not separate from the polymere before the micro-surfacing is placed on the pavement. If necessary for workability, a set-control agent that will not adversely affect the micro-surfacing product may be used.

Mineral Filler

Mineral filler shall be Portland cement or hydrated lime free of lumps. Portland cement shall be either Type I, Type II, Type III, or a combination thereof. The Contractor shall determine the type of mineral filler based on laboratory mix designs. The mineral filler will be considered part of the aggregate gradation requirement.

Replace Section 37-3.03B(3) Aggregate:

The aggregate used for microsurfacing and slurry seal shall be Type II. The material shall be free from vegetation matter and other deleterious substances. Aggregate shall be free of lumps and oversize particles. The aggregate shall be 100% crushed with no rounded

particles. The Contractor shall specify in the submittals the name and location of the rock aggregate quarry and shall provide certification at the pre-construction meeting that the rock was crushed a minimum of 90 days prior. The Contractor shall submit samples of the rock aggregate to the Engineer for review and acceptance.

Aggregate, prior to the addition of the MSE shall conform to the provisions of these Special Provisions. If aggregates are blended, each component aggregate shall conform to the Sand Equivalent and Durability Index requirements of these Special Provisions when tested in conformance with the respective California Tests.

The aggregate should meet agency-specified polishing values and these minimum requirements:

TEST	TEST METHOD	SPECIFICATION
	ASTM	
Sand Equivalent Value of Soils and Fine Aggregate	D 2419	65 Minimum
Durability Index (min)	229	70 Minimum
Soundness of Aggregates by Use of Sodium Sulfate of Magnesium Sulfate	C 88	15% Maximum w/NA2SO4 25% Maximum w/MgSO4
Resistance to Degradation of Small- Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine ¹	C 131	30% Maximum

¹The abrasion test is run on the parent aggregate gradation

When tested in accordance with CTM 202, the mix design aggregate gradation shall be as specified below:

SIEVE SIZE	TYPE II PERCENT	STOCKPILE TOLERANCE
3/8 (9.5 mm)	100	
# 4 (4.75 mm)	90-100	±5%
# 8 (2.36 mm	65-90	±5%
# 16 (1.18 mm)	45-70	±5%
# 30 (600 um)	30-50	±5%
# 50 (330 um)	18-30	±4%

#100 (150 um)	10-21	±3%
#200 (75 um)	5-15	±2%

The gradation of the aggregate stockpile shall not vary by more than the stockpile tolerance from the mix design gradation (indicated in the table above) while also remaining within the specification gradation band. The percentage of aggregate passing any two successive sieves shall not change from one end of the specified range to the other end.

The aggregate will be accepted at the job location or stockpile based on three gradation tests sampled according to CTM 202. If the average of the three tests is within the stockpile tolerance from the mix design gradation, the material will be accepted. If the average of those test results is out of specification or tolerance, Contractor shall remove the material. Screening shall be required at the stockpile if there are any problems created by oversized materials in the mix.

Replace Section 37-3.03B(4) Mineral Fillers with:

Mineral filler may be used to improve mixture consistency and to adjust mixture breaking and curing properties. Portland cement, hydrated lime, limestone dust, fly ash, or other approved filler meeting the requirements of ASTM D 242 shall be used if required by the mix design.

Use levels shall be between 0.0 - 3.0 percent and may be considered part of the aggregate gradation.

Replace Section 37-3.03B(5) Micro-Surfacing Mix Designs with:

A minimum of ten (10) working days before the work begins, the Contractor shall submit a signed mix design covering the specific materials to be used on the project. This design will be performed by a Caltrans-certified laboratory that has experience in designing micro-surfacing.

At least seven (7) working days before the micro-surfacing placement commences, the Contractor shall submit for approval of the Engineer a laboratory report of tests and a proposed mix design covering the specific materials proposed for use on the project.

The percentages of each individual material proposed in the mix design shall be shown in the laboratory report. Individual materials shall be within the following limits:

The component materials shall be designed within the following limits:

COMPONENT MATERIALS	SPECIFICATION LIMITS
Emulsion %	12% to 17%

Residual Asphalt	7.5 - 10.5% by dry weight of aggregate
Mineral Filler	0.0 - 3.0% by dry weight of aggregate
Polymer	Minimum of 3.0% solids based on bitumen weight content
Additives	As needed
Water	As required to produce proper mix consistency

After the mix design has been approved, no material substitution will be permitted unless approved by Engineer.

The mix design shall evaluate the compatibility of the aggregate, MSE asphalt, water, mineral filler, and other additives. It shall be completed using materials consistent with those supplied by the Contractor for the project.

Adjustments may be required during construction based on field conditions.

The mix design and aggregate tests shall be performed by a Caltrans-certified laboratory capable of performing the applicable International Slurry Surfacing Association (ISSA) tests. The proposed microsurfacing mixture shall conform to the specified requirements when tested in conformance with the following tests:

TEST	ISSA TB NO.	SPECIFICATION
Mix Time @ 77°F (25°C)	TB 113	Controllable to 120 Seconds Minimum
Wet Cohesion		12 kg-cm Minimum
@ 30 Minutes Minimum (Set)	TB 139	20 kg-cm or Near Spin
@ 60 Minutes Minimum (Traffic)	10139	Minimum
Wet Stripping	TB 114	Pass (90% Minimum)
Wet-Track Abrasion Loss		50 g/ft ² (538 g/m ²) Maximum
Six-day Soak	TB 100	Maximum
Lateral Displacement		5% Maximum
Specific Gravity after 1,000 Cycles of 125 lb (56.71 kg)	TB 147	2.10 Maximum

TEST	ISSA TB NO.	SPECIFICATION
Excess Asphalt by LWT Sand Adhesion	TB 109	50 g/ft ² (538 g/m ²) Maximum
Classification Compatibility	TB 144	11 Grade Points Minimum (AAA, BAA)

The laboratory shall report the quantitative effects of moisture content on the unit weight of the aggregate (bulking effect) according to AASHTO T19 (ASTM C29). The percentage of each individual material required shall be shown in the laboratory report.

The laboratory that performed the tests and designed the mixture shall sign the laboratory report. The report shall show the results of the tests on individual materials and shall compare their values to those required by these Special Provisions. The report shall clearly show the proportions of aggregate, filler (minimum and maximum), water (minimum and maximum), set control additive, and MSE solids content (minimum and maximum) based on the dry mass of aggregate. The laboratory shall report the quantitative effects of moisture content on the unit mass of the aggregate (bulking effect) in conformance with the requirements of ASTM Designation C 29M. Previous laboratory reports covering the same materials may be accepted provided the material test reports were completed within the previous 12 months. The mix design shall further show the recommended changes in mineral filler, water, and additive proportions for high temperature weather conditions by reporting proportions of materials required for 60 seconds of mix time with materials heated to 100 °F. This 100 °F mixing report will not be required for projects requiring nighttime application.

The component materials used in the mix design shall be representative of the microsurfacing materials proposed by the Contractor for use on the project.

Once the mix design is approved by the Engineer, no substitution of other material will be permitted unless the materials proposed for substitution are first tested and a laboratory report is submitted for the substituted design in conformance with the provisions of these Special Provisions. Substituted materials shall not be used until the mix design for those materials has been approved by the Engineer.

The completed mixture, after addition of water and set control agent, if used, shall be such that the microsurfacing mixture has proper workability. At the expiration of the road closure hours, in conformance with the provisions in "Maintaining Traffic" of these Special Provisions, the microsurfacing mixture shall be sufficiently cured to support unrestricted traffic.

Add Section 37-3.03B(7):

The water shall be potable water, free from harmful soluble salts and compatible with the other components.

Add Section 37-3.03B(8):

2025 ARTERIAL PAVEMENT PROJECT CITY PROJECT NO. N/A SP-114 Additives may be used to accelerate or retard the break/set of the micro-surfacing, but the micro-surfacing must be open to traffic within one hour of placement.

Appropriate additives, and their applicable use range, shall be included in the laboratory mix design.

Add to Section 37-3.03C(2) Proportioning:

Aggregate, mineral filler, MSE, water, and additives, including the set-control agent, if used, shall be proportioned by volume utilizing the mix design approved by the Engineer. If more than one kind of aggregate is used, the correct amount of each kind of aggregate to produce the required grading shall be proportioned separately, prior to adding the other materials of the mixture, in a manner that will result in a uniform and homogeneous blend.

The percentages of each individual material proposed in the mix design shall be shown in the laboratory report.

The aggregate shall be proportioned using a belt feeder operated with an adjustable cutoff gate. The height of the gate opening shall be determinable. The MSE shall be proportioned by a positive displacement pump. Variable rate emulsion pumps, if used, shall be calibrated and sealed in the pump's calibrated condition in conformance with California Test 109 prior to usage.

The delivery rate of aggregate and MSE per revolution of the aggregate feeder shall be calibrated at the appropriate gate settings for each mixer-spreader truck used on the project in conformance with California Test 109 and in conformance with the provisions of these Special Provisions.

The aggregate belt feeder shall deliver aggregate to the pugmill with such volumetric consistency that the deviation for any individual aggregate delivery rate check-run shall not exceed 2.0 percent of the mathematical average of 3 runs of at least 3 tons each. The emulsion pump shall deliver MSE to the pugmill with such volumetric consistency that the deviation for any individual delivery rate check-run shall be within 2.0 percent of the mathematical average of 3 runs of at least 300 gallons each. The water pump shall deliver water to the pugmill with such volumetric consistency that the deviation for any individual be within 2.0 percent of the mathematical average of 3 runs of at least 300 gallons each. The water pump shall deliver water to the pugmill with such volumetric consistency that the deviation for any individual delivery rate check-run shall be within 2.0 percent of the mathematical average of 3 runs of at least 300 gallons each.

The MSE storage tank shall be located immediately before the emulsion pump and shall be equipped with a device which will automatically shut down the power to the emulsion pump and aggregate belt feeder when the MSE level is lowered to a point where the pump suction line is exposed.

A temperature-indicating device shall be installed in the emulsion storage tank at the pump suction level. The device shall indicate the temperature of the MSE and shall be accurate to within 10 °F.

The belt delivering the aggregate to the pugmill shall be equipped with a device to monitor the depth of aggregate being delivered to the pugmill. The device for monitoring the depth

of aggregate shall automatically shut down the power to the aggregate belt feeder whenever the depth of aggregate is less than the target depth of flow. A second device shall be located where the device will monitor the movement of the aggregate belt by detecting revolutions of the belt feeder. The devices for monitoring no flow or belt movement shall automatically shut down the power to the aggregate belt when the aggregate belt movement is interrupted. The device to detect revolutions of the belt feeder will not be required where the aggregate delivery belt is an integral part of the drive chain. To avoid erroneous shutdown by normal fluctuation, a delay of 3 seconds will be permitted between sensing and shutdown of the operation.

Add to Section 37-3.03C(3) Mixing and Spreading Equipment:

All equipment, tools, and machines used in the application of micro-surfacing shall be maintained in satisfactory working condition at all times.

The machine shall be specifically designed and manufactured to apply micro-surfacing. The material shall be mixed by an automatic-sequenced, self-propelled micro-surfacing mixing machine. It shall be a continuous-flow mixing unit that accurately delivers and proportions the mix components through a revolving multi-blade, double-shafted mixer. Sufficient storage capacity for all mix components is required to maintain an adequate supply to the proportioning controls.

When specifying continuous machinery to minimize transverse joints, the specified machine must be capable of loading materials while continuing to apply micro-surfacing. The continuous-run machine shall be equipped to provide the operator with full control of the forward and reverse speeds during application. It shall be equipped with opposite-side driver stations to assist in alignment. The self-loading device, opposite-side driver stations, and forward and reverse speed controls shall be of original-equipment-manufacturer design.

Individual volume or weight controls for proportioning mix components shall be provided and properly labeled. These proportioning devices are used in material calibration to determine the material output at any time.

The mixture shall be agitated and spread uniformly in the surfacing box by means of twinshafted paddles or spiral augers fixed in the spreader box. A front seal shall be provided to ensure no loss of the mixture at the road contact point. The rear seal shall act as a final strike-off and shall be adjustable. The spreader box and rear strike-off shall be so designed and operated that a uniform consistency is achieved, and a free flow of material is provided to the rear strike-off. The spreader box shall have suitable means provided to side shift the box to compensate for variations in the pavement geometry.

A secondary strike-off shall be provided to improve surface texture. The secondary strikeoff shall be adjustable to match the width of the spreader box and allow for varying pressures to control the surface texture.

Each mixing unit to be used in the performance of the work shall be calibrated in the presence of Engineer prior to the start of the project. Calibration of the equipment shall

material at various settings that can be related to the machine metering devices. Any component replacement affecting material proportioning requires that the machine be recalibrated. No machine will be allowed to work on the project until the calibration has been completed and/or accepted.

Add Section 37-3.03C(3)(f) Equipment Calibration:37-3.01C(3)(f) Equipment Calibration

In addition to the requirements of Section 37-3.01C(3)(f) Equipment Calibration of the Standard Construction Specifications, the following shall apply. Each mixer/spreader truck used on the project shall be calibrated in accordance with California Test 109. The trucks shall be calibrated for rock, emulsion, cement, additives, and any mineral filler used. Calibrations shall take place a maximum of ten days prior to application of Microsurfacing. The Contractor shall notify the Inspector a minimum of three (3) working days prior to calibration so that City representatives may make arrangements to observe.

For all material calibrated three consecutive runs per gate setting shall be completed and these three test runs must not deviate from their combined mathematical average by more than 2.0%.

Calibrations will take place at most once a week or as required by the Engineer and no machine will be allowed to work on the project until the calibration has been completed and/or accepted 3 working days before the start of work. Weigh back tickets shall be submitted at the end of each work day that microsurfacing is placed. Calibration shall take place within a 30 mile radius of the <u>City of Roseville downtown offices</u> City of Goleta City Hall.

Timing and Traffic Control

The break/set of the micro-surfacing shall be such that traffic can be placed on it within one hour of placement. At least one lane of traffic in each direction must be open at all times unless approved by the Engineer.

Replace Section 37-3.03C(4) Test Strips with:

The Contractor shall construct a test strip for evaluation by the Engineer ten (10) working days prior to the slurry application and residential notification. The test strip shall be 500 ft to 1000 ft long, shall consist of the application courses specified. The test strip shall be constructed at the same time of day or night that the full production of slurry will be placed and may be constructed in 2 days when multiple course applications are specified.

The Engineer will evaluate the test strip during the application of the test strip to determine if the mix design and placement procedure are acceptable. If the mix design or the placement procedure is determined by the Engineer to be unacceptable, the test strip will be rejected, the Contractor shall make modifications, and a new test strip shall

2025 ARTERIAL PAVEMENT PROJECT			
CITY PROJECT NO. N/A			
SP-117			
ADDENDUM 1			

be constructed and evaluated by the Engineer. The Contractor will be permitted to notify resident after the Engineer accepts the test strip in writing. The cost of materials and placement of the test strips and the test strips which have been rejected shall be borne by the Contractor and will not be considered as part of the contract work.

If ordered by the Engineer, rejected test strips shall be removed at the Contractors expense.

Add to Section 37-3.03C(5) Placement:

Contractor shall ensure that the street scheduled for micro-surfacing is open to traffic within one hour of placing micro-surfacing. Liquidated damages of \$500 per 10-minute increment shall be applied for failure to meet the one-hour requirement.

Weather Limitations

Micro-surfacing shall not be applied if either the pavement or air temperature is below 60 degrees Fahrenheit and falling but may be applied when both pavement and air temperatures are above 60 degrees Fahrenheit and rising. No micro-surfacing shall be applied when there is the possibility of freezing temperatures at the project location within 24 hours after application. The micro-surfacing shall not be applied when weather conditions prolong opening to traffic beyond a reasonable time.

Surface Preparation

Immediately prior to applying the micro-surfacing, the surface shall be cleared of all loose material, silt spots, vegetation, and other objectionable material. Any standard cleaning method will be acceptable. If water is used, cracks shall be allowed to dry thoroughly before applying micro-surfacing. Manholes, valve boxes, drop inlets and other service entrances shall be protected from the micro-surfacing by a suitable method. City will approve the surface preparation prior to surfacing.

No tack coat shall be required. Crack sealing shall be performed in accordance with other portions of these Special Provisions.

All utility covers shall be covered prior to application of micro-surfacing.

Contractor shall remove and dispose of all painted, preformed, and thermoplastic paint markings; and all raised pavement markers prior to placing micro-surfacing. Removal methods shall conform to Section 84-9 of the State Standard Specifications.

Application

Micro-surfacing shall be placed at least 24 hours after placement of crack seal. A test strip shall be constructed at a location approved by Engineer at least one day prior to the actual micro-surfacing placement.

2025 ARTERIAL PAVEMENT PROJECT				
CITY PROJECT NO. N/A				
SP-118				
ADDENDUM 1				

When local conditions warrant, the surface shall be fogged with water ahead of the spreader box. The rate of application of the fog spray may be adjusted as the temperature, surface texture, humidity, and dryness of the pavement change.

The micro-surfacing shall be of the appropriate consistency upon leaving the mixer. A sufficient amount of material shall be carried in all parts of the spreader at all times so that complete coverage is obtained. Overloading of the spreader box shall be avoided.

No lumps or unmixed aggregate shall be permitted. No dry aggregate either spilled from the lay-down machine or existing on the road will be permitted.

No streaks, such as those caused by oversized aggregate or broken mix, shall be left in the finished surface. If excessive streaking develops, the job will be stopped until Contractor proves to Engineer that the situation has been corrected. Excessive streaking is defined as more than four drag marks greater than 1/2-inch wide and 4 inches long, or 1-inch wide and 3 inches long, in any 30 square-yard (SY) area. No transverse ripples or longitudinal streaks of 1/4-inch in depth will be permitted, when measured by placing a 10-foot straight edge over the surface.

The micro-surfacing mixture shall be of the proper consistency at all times so as to provide the application rate required by the surface condition. The application rate shall be between 14-16 LB/SY. Application rates are based upon the weight of dry aggregate in the mixture.

No excess buildup, uncovered areas, or unsightly appearance shall be permitted on longitudinal or transverse joints. Contractor shall provide suitable width spreading equipment to produce a minimum number of longitudinal joints throughout the project. When possible, longitudinal joints shall be placed on lane lines. Partial width passes will only be used when necessary and shall not be the last pass of any paved area. A maximum of 3 inches shall be allowed for overlap of longitudinal joints. Also, the joint shall have no more than a 1/4-inch difference in elevation when measured by placing a 10-foot straight edge over the joint and measuring the elevation difference.

The micro-surfacing shall possess sufficient stability so that premature breaking of the material in the spreader box does not occur. The mixture shall be homogeneous during and following mixing and spreading. It shall be free of excess liquids which create segregation of the aggregate. Spraying of additional water into the spreader box will not be permitted.

Areas which cannot be accessed by the mixing machine shall be surfaced using hand squeegees to provide complete and uniform coverage. If necessary, the area to be hand-worked shall be lightly dampened prior to mix placement. As much as possible, handwork shall exhibit the same finish as that applied by the spreader box. All handwork shall be completed prior to final surfacing.

Lines at intersections, curbs, and shoulders will be kept straight to provide a good appearance. A suitable material will be used to mask off the end of streets to provide

2025 ARTERIAL PAVEMENT PROJECT			
CITY PROJECT NO. N/A			
SP-119			
ADDENDUM 1			

straight lines. Longitudinal edge lines shall not vary by more than ± 2 inches horizontal variance in any 100-foot length.

The micro-surfacing shall not overlap the gutter by more than 1-inch. Any micro-surfacing in excess of 1-inch shall be removed by heating and scraping.

Micro-surfacing shall be rolled by a self-propelled, 8- to 10-ton (maximum) pneumatic tire roller equipped with a water spray system. All tires should be inflated per manufacturer's specifications. Rolling shall not start until the micro-surfacing has cured sufficiently to avoid damage by the roller. Areas that require rolling shall receive a minimum of three full coverage passes.

Replace Section 37-3.03D Payment with:

The Microsurfacing shall be paid for by tonnage used, and shall be determined from calibrations and revolutions per day and verified with weigh back tickets. The price for tonnage will be measured through revolutions per day and will include rock and emulsion revolution counts for payment. The revolutions for each truck will be submitted to the construction inspector prior to the start of work and the final revolution count shall be submitted to the inspector at the end of the day for every day Slurry Seal is applied, work will not be permitted until these requirements are met.

All weight tickets including aggregate and emulsion tickets shall be turned in on a daily basis. Tickets for Material stockpiled at the stockpile and emulsion shall be submitted on a daily basis and no later than the end of the business day. Leftover stockpile aggregate shall be deducted and removed.

The measurement and payment for "**Crack Seal & Micro-Surfacing (Type II)**" will be made at the contract unit price bid indicated in the Bid Schedule. The contract unit price shall include full compensation for furnishing all labor, materials, tools, equipment, surface preparation, emulsified asphalt, aggregate, rock, pneumatic-tired rollers, calibrations, hauling, test strips, application of slurry seal, and all incidentals necessary to complete the work as specified in the Standard Specifications and these Special Provisions. No additional compensation will be allowed therefor.

Add to Section 37-4.02A General:

Fog seals shall comply with Section 37-4.02 FOG SEALS of the State Standard Specifications.

Add to Section 37-4.02D Payment:

Measurement and payment for "**Fog Seal**" shall be on a unit cost basis as identified in the Bid Schedule and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in applying fog seal as shown on the plans, as specified in the State Standard Specifications and in these special provisions, and as directed by the Engineer.

Add to Section 37-6.01A Summary:

2025 ARTERIAL PAVEMENT PROJECT			
CITY PROJECT NO. N/A			
SP-120			
ADDENDUM 1			

This work shall consist of mechanically routing cracks, cleaning, applying sterilant, and filling the cracks with rubber asphalt joint seal as specified in these Special Provisions, and as directed by Engineer. All cracks 1/8-inch wide or wider shall be sealed.

Replace Section 37-6.02 MATERIALS with:

The crack sealant shall be a mixture of paving asphalt and ground rubber, and shall conform to ASTM D 5078, Type II.

Replace Section 37-6.03 CONSTRUCTION with:

During all construction operations, Contractor shall protect cracks cleaned for sealing from intrusions of solid foreign materials into the groove or into the sealant. Immediately prior to applying the sealant, the cracks shall be mechanically routed and then cleaned with high pressure air jets to remove all residue and foreign material. Cracks wider than 1/4-inch do not need to be routed prior to crack filling. Any cracks that contains existing weed growth shall be treated with an Environmental Protection Agency (EPA) approved herbicide composed of glyphosate and oryzalin, combined and applied according to label directions. Water jets will not be allowed. Crack surfaces shall be surface dry at the time the sealant is applied.

Crack seal materials shall be placed in conformance with the manufacturer's recommendations. Crack seal materials shall not be placed when the surface temperature is below 50 degrees Fahrenheit.

The finished crack seal shall be bonded to the crack such that there is no separation or opening between the sealant and the crack edge and there shall be no cracks, separation or other opening in the sealant.

Contractor shall remove crack seal material that is not placed within the conformance of these Special Provisions, clean cracks as specified herein and then reseal the cracks at their expense.

Replace Section 37-6.04 PAYMENT with:

The measurement and payment for crack sealing will be included in the contract unit price for "**Crack Seal & Micro-Surfacing**". No additional compensation will be allowed therefor.

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2025 ARTERIAL PAVEMENT PROJECT				
CITY PROJECT NO. N/A				
SP-121				
ADDENDUM 1				

39 ASPHALT CONCRETE

Replace the 3rd Paragraph and Table in Section 39-2.01A(4)(i)(ii) In-Place Density with:

For the percent of maximum theoretical density, the following table shall apply to deductions for average compaction of a sublot:

Reduced Payment Factors for Percent of Maximum Theoretical Density			
HMA Type A	Reduced Payment	НМА Туре А	Reduced Payment
Percent of	Factor	Percent of	Factor
Maximum		Maximum	
Theoretical Density		Theoretical Density	
92.0	0.0000	97.0	0.0000
91.9	0.0125	97.1	0.0125
91.8	0.0250	97.2	0.0250
91.7	0.0375	97.3	0.0375
91.6	0.0500	97.4	0.0500
91.5	0.0625	97.5	0.0625
91.4	0.0750	97.6	0.0750
91.3	0.0875	97.7	0.0875
91.2	0.1000	97.8	0.1000
91.1	0.1125	97.9	0.1125
91.0	0.1250	98.0	0.1250
90.9	0.1375	98.1	0.1375
90.8	0.1500	98.2	0.1500
90.7	0.1625	98.3	0.1625
90.6	0.1750	98.4	0.1750
90.5	0.1875	98.5	0.1875
90.4	0.2000	98.6	0.2000
90.3	0.2125	98.7	0.2125
90.2	0.2250	98.8	0.2250
90.1	0.2375	98.9	0.2375
90.0	0.2500	99.0	0.2500
< 90.0	Remove and	> 99.0	Remove and
	Replace		Replace

Add to Section 39-2.02A(1) Summary:

Comply with Section 39-2 HOT MIX ASPHALT of the 2018 Caltrans Standard Specifications (Unrevised) except as modified in these Special Provisions.

Add to Section 39-2.02A(3) Submittals:

Submit JMF information on Form CEM-3511 and Form CEM-3512. Submit Form CEM-3513 or CEM-3514 for mixes that have been verified within last twelve (12) months. Provide the most recent CEM-3513 if mix has not been verified within the last twelve (12) months. For unverified mixes or out of date mix tests, final acceptance will be based on production startup tests and Contractor shall be paving at their own risk.

Submit Quality Control Plan that conforms to the current Caltrans Quality Control Plan Review Checklist for Hot Mix Asphalt, and Hot Mix Asphalt (HMA) paving placement plan

2025 ARTERIAL PAVEMENT PROJECT		
CITY PROJECT NO. N/A		
SP-122		
ADDENDUM 1		

that will ensure that no longitudinal joints remain unfinished in the same direction between work shifts during finish course placement . Allow twenty (20) calendar days for review.

Replace Reserved in Section 39-2.01C(2)(d) with:

Do not pave HMA on wet pavement or a frozen surface.

You may deposit HMA in a windrow and load it in the paver if:

 Paver is equipped with a hopper that automatically feeds the screed
 Loading equipment can pick up the windrowed material and deposit it in the paver hopper without damaging base material

- 3.) Activities for deposit, pickup, loading, and paving are continuous
- 4. HMA temperature in the windrow does not fall below 260 degrees Fahrenheit

You may pave HMA in 1 or more layers on areas less than 5 feet wide and outside the traveled way, including shoulders. You may use mechanical equipment other than a paver for these areas. The equipment must produce uniform smoothness and texture.

HMA handled, spread, or windrowed must not stain the finished surface of any improvement, including pavement.

Do not use petroleum products such as kerosene or diesel fuel to release HMA from trucks, spreaders, or compactors.

HMA must be free of:

- 1.) Segregation
- 2.) Coarse or fine aggregate pockets
- 3.) Hardened lumps

Longitudinal joints in the top layer must match specified lane edges. Alternate the longitudinal joint offsets in the lower layers at least 0.50-foot from each side of the specified lane edges. You may request other longitudinal joint placement patterns.

Until the adjoining through lane's top layer has been paved, do not pave the top of:

- 1.) Shoulders
- 2.) Tapers
- 3.) Transitions
- 4.) Road connections
- 5.) Driveways
- 6.) Curve widenings
- 7.) Chain control lanes
- 8.) Turnouts

2025 ARTERIAL PAVEMENT PROJECT
CITY PROJECT NO. N/A
SP-123
ADDENDUM 1

9.) Turn pockets

If the number of lanes changes, pave each through lane's top layer before paving a tapering lane's top layer. Simultaneous to paving a through lane's top layer, you may pave an adjoining area's top layer, including shoulders. Do not operate spreading equipment on any area's top layer until completing final compaction.

If leveling with HMA is specified, fill and level irregularities and ruts with HMA before spreading HMA over the base, existing surfaces, or bridge decks. You may use mechanical equipment other than a paver for these areas. The equipment must produce uniform smoothness and texture.

If placing HMA against the edge of existing pavement, sawcut or grind the pavement straight and vertical along the joint and remove extraneous material.

Add to Section 39-2.02A(4)(e) Department Acceptance:

Engineer's Acceptance

Materials Acceptance

The Engineer may withhold acceptance in the event of any failing test result until the Contractor has addressed the failing material to the Engineer's satisfaction.

The Engineer may sample the hot mix asphalt from truck beds at the plant, from the hopper of the paving machine, or from the mat behind the paver at their discretion. The Contractor shall facilitate the sampling process.

The Engineer will test for conformance with aggregate quality characteristics at the beginning of the Project.

The Engineer will test air void content once per day.

Additional testing will be performed at the Engineer's discretion.

Compaction Acceptance

Sublots to determine compaction testing shall be based on the following:

Each 750 tons, or part thereof, placed on an individual street in a paving day. If over 750 tons are placed in a single paving day on an individual street, up to 150 tons over 750 tons can be moved into the previous 750-ton sublot.

If multiple streets are paved in a day, each street shall be considered its own sublot with multiple sublots on streets where greater than 750 tons are placed.

2025 ARTERIAL PAVEMENT PROJECT			
CITY PROJECT NO. N/A			
SP-124			
ADDENDUM 1			

The in-place density shall be between ninety-two percent (92.0%) and ninety-seven percent (97.0%) of maximum theoretical specific (Rice) gravity using a nuclear gauge. Compaction testing shall be performed using a nuclear gauge on all placed HMA unless otherwise discussed with the Engineer. Final compaction is based on the average nuclear gauge results for the sublot. The nuclear gauge shall be core correlated the first day of paving using as many cores as the Engineer deems appropriate.

If nuclear gauge compaction testing results are failing, the Contractor can request coring to verify the results. Three (3) cores shall be sampled for each sublot and the average of the three (3) cores for each sublot shall determine the in-place density. The core locations shall be determined using random sampling charts in CTM 375. The Engineer will mark the core locations.

Cores may be taken up to five (5) calendar days after placement and may be 4 or 6 inches in diameter. The Engineer will provide results within three (3) working days of receiving the cores.

Passing cores will be paid for by the City. Failing cores shall be paid for by the Contractor. If the core testing produces both passing and failing cores, the cost will be prorated between the Contractor and the City.

The Contractor shall have hand-compaction equipment immediately available for compacting all areas inaccessible to rollers. Hand-compaction shall be performed concurrently with breakdown rolling. If for any reason, hand-compaction falls behind breakdown rolling, further placement of hot mix asphalt shall be suspended until hand-compaction is completed. Hand-compaction includes vibraplates and hand tampers. Hand torches shall be available for rework of areas that have cooled.

After compaction, the surface texture of all handwork areas shall match the surface texture of the machine-placed mat. Any coarse or segregated areas shall be corrected immediately upon discovery. Failure to immediately address these areas shall cause suspension of hot mix asphalt placement until the areas are satisfactorily addressed unless otherwise allowed by the Engineer.

2025 ARTERIAL PAVEMENT PROJECT			
CITY PROJECT NO. N/A			
SP-125			
ADDENDUM 1			

Add to the 3rd Subsection in Section 39-2.02A(4)(e) Department Acceptance:

Type A HMA-SP50 Mix Design Requirements			
Quality characteristic	Test method	Requirement	
Air voids content (%)	AASHTO T 269ª	N _{initial} > 8.0 N _{design} = 4.0 N _{max} > 2.0	
Gyration compaction (no. of gyrations)	AASHTO T 312	N _{initial} = 6 N _{design} = 50 N _{max} = 75	
Gyration compaction (compactor ram pressure)	AASHTO T 312	600kPa	
Voids in mineral aggregate (min, %) ^b Gradation: No. 4 3/8-inch 1/2-inch 3/4-inch	MS-2 Asphalt Mixture Volumetrics	15.5–18.5 14.5–17.5 13.5–16.5 12.5–15.5	
Dust proportion	MS-2 Asphalt Mixture Volumetrics	0.5–1.4	
Hamburg wheel track (min number of passes at 0.5-inch rut depth) Specified Binder grade: PG 58 PG 64 PG 70 PG 76 or higher	CALIFORNIA TEST 389 ^{c, d}	8,000 12,000 15,000 20,000	
Moisture susceptibility, tensile strength ratio (min)	AASHTO T 283 ^{c, e}	70	

HMA-SP50 -- 50 Gyration Mix Design

Type A HMA-SP50 Mix Design Requirements

^aCalculate the air voids content of each specimen using AASHTO T 275, Method A, to determine bulk specific gravity. Use AASHTO T 209, Method A, to determine theoretical maximum specific gravity. Mix design specimen at OBC must be $N_{design} \pm 0.3\%$, production air voids must be $N_{design} \pm 1.5\%$.

^bMeasure bulk specific gravity using AASHTO T 275, Method A.

^cTest plant-produced Type A HMA.

^dStripping inflection point is report only.

^eFreeze thaw required.

In-place acceptance requirements for VMA shall be 1.0% below the design requirements. For all other quality characteristics in-place acceptance and design requirements are the same.

HMA-SP65 -- 65 Gyration Mix Design Type A HMA-SP65 Mix Design Requirements

I ype A HMA-SP65 Mix Design Requirements			
Quality characteristic	Test method	Requirement	
Air voids content (%)	AASHTO T 269 ^a	N _{initial} > 8.0 N _{design} = 4.0 N _{max} > 2.0	
Gyration compaction (no. of gyrations)	AASHTO T 312	N _{initial} = 7 N _{design} = 65 N _{max} = 95	
Gyration compaction (compactor ram pressure)	AASHTO T 312	600kPa	
Voids in mineral aggregate (min, %) ^b Gradation: No. 4 3/8-inch 1/2-inch 3/4-inch	MS-2 Asphalt Mixture Volumetrics	15.5–18.5 14.5–17.5 13.5–16.5 12.5–15.5	
Dust proportion	MS-2 Asphalt Mixture Volumetrics	0.5–1.4	
Hamburg wheel track (min number of passes at 0.5-inch rut depth) Specified Binder grade: PG 58 PG 64 PG 70 PG 76 or higher	CALIFORNIA TEST 389 ^{c, d}	10,000 15,000 20,000 25,000	
Moisture susceptibility, tensile strength ratio (min)	AASHTO T 283 ^{c, e}	70	

^aCalculate the air voids content of each specimen using AASHTO T 275, Method A, to determine bulk specific gravity. Use AASHTO T 209, Method A, to determine theoretical maximum specific gravity. Mix design specimen at OBC must be N_{design} ± 0.3%, production air voids must be N_{design} ± 1.5%.

^bMeasure bulk specific gravity using AASHTO T 275, Method A.

^cTest plant-produced Type A HMA.

^dStripping inflection point is report only.

^eFreeze thaw required.

In-place acceptance requirements for VMA shall be 1.0% below the design requirements. For all other quality characteristics in-place acceptance and design requirements are the same.

Replace the Table in the 3rd Subsection in Section 39-2.02A(4)(e) Department Acceptance with:

Type A HMA-SP85 Mix Design Requ	irements	
Quality characteristic	Test method	Requirement
Air voids content (%)	AASHTO T 269 ^a	N _{initial} > 8.0 N _{design} = 4.0 N _{max} > 2.0
Gyration compaction (no. of gyrations)	AASHTO T 312	N _{initial} = 8 N _{design} = 85 N _{max} = 130
Gyration compaction (compactor ram pressure)	AASHTO T 312	600kPa
Voids in mineral aggregate (min, %) ^b Gradation: No. 4 3/8-inch 1/2-inch 3/4-inch Dust proportion	MS-2 Asphalt Mixture Volumetrics MS-2 Asphalt Mixture	15.5–18.5 14.5–17.5 13.5–16.5 12.5–15.5 0.6–1.3
	Volumetrics	0.0-1.5
Hamburg wheel track (min number of passes at 0.5-inch rut depth) Specified Binder grade: PG 58 PG 64 PG 70 PG 76 or higher	CALIFORNIA TEST 389 ^{c, d}	10,000 15,000 20,000 25,000
Moisture susceptibility, tensile strength ratio (min)	AASHTO T 283 ^{c, e}	70

HMA-SP85 -- 85 Gyration Mix Design

Type A HMA-SP85 Mix Design Requirements

^aCalculate the air voids content of each specimen using AASHTO T 275, Method A, to determine bulk specific gravity. Use AASHTO T 209, Method A, to determine theoretical maximum specific gravity. Mix design specimen at OBC must be N_{design} ± 0.3%, production air voids must be N_{design} ± 1.5%.

^bMeasure bulk specific gravity using AASHTO T 275, Method A.

^cTest plant-produced Type A HMA.

^dStripping inflection point is report only.

^eFreeze thaw required.

In-place acceptance requirements shall conform with Section 39-2.02 TYPE A HOT MIX ASPHALT of the State Standard Specifications and these Special Provisions.

Replace *Reserved* in Section 39-2.02B(1) with:

Materials

Asphalt Binder

The grade of asphalt binder for all HMA Type A shall be PG 64-10 subject to provisions of Section 39-2.02B(2).

Warm mix technology shall not be used.

Aggregate

The hot mix asphalt to be used shall be as follows unless modified by the Plans or these Special Provisions:

Remove and Replace Areas or Digouts:	1/2-inch Type A, 3/4-inch Type A may be used if the lift thickness is greater than 0.20-foot (2.4 inches).
Base and Intermediate Courses:	1/2-inch Type A, 3/4-inch Type A may be used if the lift thickness is greater than 0.20-foot (2.4 inches).
Leveling Courses:	3/8-inch Type A or No. 4 Type A
Surface Courses:	1/2-inch Type A

Add to Section 39-2.02B(2) Type A Hot Mix Asphalt Mix Design:

The hot mix asphalt mix design shall follow the 2018 Caltrans Standard Specifications except as modified below, the number of gyrations to be used for the mix design shall be as designated on the plans or in these Special Provisions.

The mix design, including the number of gyrations and aggregate size, shall be shown on each delivery ticket.

The Tensile Strength Ratio (TSR) shall be 70 minimum.

Add to Section 39-2.02B(2) Type A Hot Mix Asphalt Mix Design:

Type A HMA-SP50 Mix Design Requ	irements	
Quality characteristic	Test method	Requirement
Air voids content (%)	AASHTO T 269 ^a	N _{initial} > 8.0 N _{design} = 4.0 N _{max} > 2.0
Gyration compaction (no. of gyrations)	AASHTO T 312	N _{initial} = 6 N _{design} = 50 N _{max} = 75
Gyration compaction (compactor ram pressure)	AASHTO T 312	600kPa
Voids in mineral aggregate (min, %) ^b Gradation: No. 4 3/8-inch 1/2-inch 3/4-inch Dust proportion	MS-2 Asphalt Mixture Volumetrics MS-2	16.5–19.5 15.5–18.5 14.5–17.5 13.5–16.5
	Asphalt Mixture Volumetrics	0.5–1.4
Hamburg wheel track (min number of passes at 0.5-inch rut depth) Specified Binder grade: PG 58 PG 64 PG 70 PG 76 or higher	CALIFORNIA TEST 389 ^{c, d}	8,000 12,000 15,000 20,000
Moisture susceptibility, tensile strength ratio (min)	AASHTO T 283 ^{c, e}	70

HMA-SP50 -- 50 Gyration Mix Design

Type A HMA-SP50 Mix Design Requirements

^aCalculate the air voids content of each specimen using AASHTO T 275, Method A, to determine bulk specific gravity. Use AASHTO T 209, Method A, to determine theoretical maximum specific gravity. Mix design specimen at OBC must be $N_{design} \pm 0.3\%$, production air voids must be $N_{design} \pm 1.5\%$.

^bMeasure bulk specific gravity using AASHTO T 275, Method A.

^cTest plant-produced Type A HMA.

^dStripping inflection point is report only.

^eFreeze thaw required.

In-place acceptance requirements for VMA shall be 1.0% below the design requirements. For all other quality characteristics in-place acceptance and design requirements are the same.

HMA-SP65 -- 65 Gyration Mix Design Type A HMA-SP65 Mix Design Requirements

I ype A HMA-SP65 Mix Design Requ	irements	
Quality characteristic	Test method	Requirement
Air voids content (%)	AASHTO T 269ª	N _{initial} > 8.0 N _{design} = 4.0 N _{max} > 2.0
Gyration compaction (no. of gyrations)	AASHTO T 312	N _{initial} = 7 N _{design} = 65 N _{max} = 95
Gyration compaction (compactor ram pressure)	AASHTO T 312	600kPa
Voids in mineral aggregate (min, %) ^b Gradation: No. 4 3/8-inch 1/2-inch 3/4-inch Dust proportion	MS-2 Asphalt Mixture Volumetrics MS-2 Asphalt Mixture	16.5–19.5 15.5–18.5 14.5–17.5 13.5–16.5 0.5–1.4
Hamburg wheel track (min number of	Volumetrics	
passes at 0.5-inch rut depth) Specified Binder grade: PG 58 PG 64 PG 70 PG 76 or higher	CALIFORNIA TEST 389 ^{c, d}	10,000 15,000 20,000 25,000
Moisture susceptibility, tensile strength ratio (min)	AASHTO T 283 ^{c, e}	70

^aCalculate the air voids content of each specimen using AASHTO T 275, Method A, to determine bulk specific gravity. Use AASHTO T 209, Method A, to determine theoretical maximum specific gravity. Mix design specimen at OBC must be N_{design} ± 0.3%, production air voids must be N_{design} ± 1.5%.

^bMeasure bulk specific gravity using AASHTO T 275, Method A.

^cTest plant-produced Type A HMA.

^dStripping inflection point is report only.

^eFreeze thaw required.

In-place acceptance requirements for VMA shall be 1.0% below the design requirements. For all other quality characteristics in-place acceptance and design requirements are the same.

Replace Table in Section 39-2.02B(2) Type A Hot Mix Asphalt Mix Design with:

Type A HMA-SP85 Mix Design Requ		[
Quality characteristic	Test method	Requirement
Air voids content (%)	AASHTO T 269ª	N _{initial} > 8.0 N _{design} = 4.0 N _{max} > 2.0
Gyration compaction (no. of gyrations)	AASHTO T 312	N _{initial} = 8 N _{design} = 85 N _{max} = 130
Gyration compaction (compactor ram pressure)	AASHTO T 312	600kPa
Voids in mineral aggregate (min, %) ^b Gradation: No. 4 3/8-inch 1/2-inch 3/4-inch Dust proportion	MS-2 Asphalt Mixture Volumetrics MS-2 Asphalt Mixture	16.5–19.5 15.5–18.5 14.5–17.5 13.5–16.5 0.6–1.3
Hamburg wheel track (min number of passes at 0.5-inch rut depth) Specified Binder grade: PG 58 PG 64 PG 70 PG 76 or higher	Volumetrics CALIFORNIA TEST 389 ^{c, d}	10,000 15,000 20,000 25,000
Moisture susceptibility, tensile strength ratio (min)	AASHTO T 283 ^{c, e}	70

HMA-SP85 -- 85 Gyration Mix Design

Type A HMA-SP85 Mix Design Requirements

^aCalculate the air voids content of each specimen using AASHTO T 275, Method A, to determine bulk specific gravity. Use AASHTO T 209, Method A, to determine theoretical maximum specific gravity. Mix design specimen at OBC must be N_{design} ± 0.3%, production air voids must be N_{design} ± 1.5%.

^bMeasure bulk specific gravity using AASHTO T 275, Method A.

^cTest plant-produced Type A HMA.

^dStripping inflection point is report only.

^eFreeze thaw required.

In-place acceptance requirements shall conform with Section 39-2.02 TYPE A HOT MIX ASPHALT of the State Standard Specifications and these Special Provisions..

Replace Paragraphs at End of Section 39-2.02B(2) Hot Mix Asphalt Mix Design with:

For Type A HMA mixtures using RAP, the maximum allowed binder replacement is 25.0 percent in the upper 0.20-foot exclusive of OGFC and 40.0 percent below. The binder replacement is calculated as a percentage of the approved JMF target asphalt binder content.

For RAP substitution of 15 percent or less, the grade of the virgin binder must be the specified grade of asphalt binder for Type A HMA.

For RAP substitution greater than 15 percent and not exceeding 25 percent, the grade of the virgin binder must be the specified grade of asphalt binder for Type A HMA with the upper and lower temperature classification reduced by 6 degrees Celsius. Hamburg wheel track requirements are based on the grade of asphalt binder specified for Type A HMA.

Add to the end of Section 39-2.02C Construction:

General

The use of material transfer vehicles (MTV) shall not be permitted on collector or residential roadways. The Contractor shall confirm with the Engineer which streets are classified as residential, collector, or arterial.

Surface Preparation

The work consists of preparing the existing street surfaces prior to the commencement of paving. Such work shall include, but not be limited to, removing and disposing raised pavement markers, thermoplastic traffic markings and legends, and flexible posts; controlling nuisance water; sweeping; watering; and removing loose and broken pavement and foreign material as specified in the State Standard Specifications and these Special Provisions, and as directed by the Engineer.

All vertical edges to be paved shall be tack-coated. These include, but are not limited to, curb faces, gutter lips, swale edges, cross gutter edges, and pavement edges.

Tack coat shall be utilized and shall be either emulsified asphalt Grade RS-1, RS-1h, SS-1, or SS-1h conforming to Section 94 ASPHALTIC EMULSIONS of the State Standard Specifications or paving grade asphalt conforming to Section 92 ASPHALT BINDERS of the State Standard Specifications.

Seal all cracks prior to placing HMA. All cold joints, both longitudinal and transverse, shall be heated with a torch immediately prior to paving. Cold joints include previous passes placed more than three (3) hours prior. All cold joints shall be tack coated. Rolling shall be performed as indicated in the referenced State Standard Specifications. The roller water shall contain a soap type compound to prevent sticking of the HMA material to the rollers.

Leveling, Transitions, and Hot Mix Asphalt Fills

A leveling course of variable thickness shall be placed and compacted prior to placing the surface course at locations where directed by the Engineer. The leveling course shall be used to correct pavement irregularities such as rutting, variable cross slope, or variable longitudinal slope. Where two (2) overlays of different thickness abut at a longitudinal joint, the Contractor shall add to the thinner section to match the thicker lift and provide a smooth transition and uniform cross-fall. Cold-planing ridges or other rises in the pavement surface may be required by the Engineer. The Engineer will determine the exact limits and thickness of the leveling courses, hot mix asphalt fills, and transitions.

The Contractor shall construct temporary pavement transitions at all transverse paving joints greater than 1-inch prior to allowing traffic onto the paved surface. Temporary pavement transitions shall have a maximum slope of 20:1 or as approved by the Engineer and be constructed on Kraft paper or other suitable bond breaker such that upon removal of the temporary pavement transition, a clean notch remains. The temporary transitions may be constructed of either cold mix or hot mix.

The Contractor shall continuously maintain the temporary pavement until final paving. Each temporary transition shall be inspected by the Contractor and repaired as necessary to comply with these provisions at the end of each day including weekends and holidays. Failure to comply with these Special Provisions will result in a liquidated damage of \$250 per day per transition and/or the cost of City crews making the repairs if necessary to correct for public safety.

Layout

The Contractor shall layout and mark the location of the edges of the paving passes of the surface course to match the new layout of the lane lines. The layout shall be made at least twenty-four (24) hours prior to paving. The layout shall be approved by the Engineer prior to paving.

If the striping is to remain unchanged, the edges of the paving passes shall conform to existing lane edges.

In all cases where practical, each lane shall be paved in a single pass. In tapered transition areas, the shoulder areas shall be paved first, then the through lane shall be paved immediately after the shoulder paving.

For paving that incorporates new quarterpoints or gradebreaks due to keycuts or other conditions, the Contractor shall provide equipment capable of adjusting to the new surface profile at the appropriate locations.

The Contractor shall take sufficient measurements during laydown to ensure that the full design hot mix asphalt layer depth is provided at each quarterpoint, gradebreak, or transition. Failure to provide the design depth at these areas will result in rejection of the

work. Correction of this rejected work shall include milling out the new hot mix asphalt from the road edge to the centerline or nearest inside lane line and repaving. The minimum length of the milled and corrected area shall be 50 feet.

Tolerances

The finished hot mix asphalt surface shall be flush with, to 0.02-foot (1/4-inch or 6 mm) above, the gutter lips. The finished pavement surface shall not be lower than the gutter lips.

The average pavement thickness shall be equal to the specified thickness for the project.

For total pavement thicknesses of less than 0.33-foot (4 inches), the minimum allowable thickness shall be 0.02-foot (1/4-inch) less than that specified.

For total pavement thicknesses of 0.33-foot (4 inches) or more, the minimum allowable thickness shall be 0.04-foot (1/2-inch) less than that specified.

Automatic Screed Controls

For all main line street or roadway paving with single lane length exceeding 300 feet, automatic screed controls shall be required. Automatic screed controls will not be required for the paving of parking lots, intersections, cul-de-sacs, alleyways, or other irregular areas.

In addition to the requirements in Section 39-2.01C(2)(a) GENERAL and 39-2.01C(15) COMPACTION of the State Standard Specifications, hot mix asphalt shall be placed with spreading equipment equipped with fully automatic screed and grade sensing controls which shall control the longitudinal grade of the screed. Automatic controls shall conform to and be operated in accordance with these Special Provisions herein.

Unless approved otherwise, ski-type devices with a minimum length of 30 feet shall be used to provide a reference for the grade sensor. Skis shall be constructed and installed in such a manner that a reference to the average elevation of the existing pavement along the length of the ski, is maintained at the sensor point. When placing surfacing adjacent to surfacing previously placed in conformance with these Special Provisions, a joint matching shoe of adequate size and type to properly sense the grade of the previously placed mat may be used in lieu of the 30-foot ski.

The ski shall be mounted at a location that shall provide an accurate reference for the surfacing being placed. This may require the ski to be mounted ahead of and inside the outer limits of the screed. Automatic cross-slope control may be accomplished by use of a ski and grade sensor on each side of the paving machine.

Automatic screed controls shall be installed in such a manner that the occasional manual adjustments necessary to maintain the attitude of the screed parallel to the underlying pavement are readily accomplished. Automatic screed controls shall be installed so that

with little or no delay, the use of the automatic controls can be discontinued and the screed controlled by manual methods.

If it is determined by the Engineer that the existing grade and cross slope are too irregular for the automatic controls to provide the quality of work required, the use of the automatic controls shall be discontinued and the spreading equipment adjusted by manual methods. Use of automatic controls shall resume when the Engineer has determined that it is again practical and so orders.

Compacting

The number of rollers required for each paving operation shall be such that all rolling for density can be completed before the temperature of the hot mix asphalt mixture drops below 140 degrees Fahrenheit.

Breakdown rolling shall commence when the hot mix asphalt is placed. Rolling shall be accomplished with the drive wheel forward and with the advance and return passes in the same line.

The Contractor shall have hand-compaction equipment immediately available for compacting all areas inaccessible to rollers. Hand-compaction shall be performed concurrently with breakdown rolling. If for any reason hand-compaction falls behind breakdown rolling, further placement of hot mix asphalt shall be suspended until hand-compaction is caught up. Hand-compaction includes vibraplates and hand tampers. Hand torches shall be available for rework of areas that have cooled.

After compaction, the surface texture of all handwork areas shall match the surface texture of the machine-placed mat. Any coarse or segregated areas shall be corrected immediately upon discovery. Failure to immediately address these areas shall cause suspension of hot mix asphalt placement until the areas are satisfactorily addressed unless otherwise allowed by the Engineer.

Contractor Quality Control

The HMA shall be verified by the Engineer prior to placement on the job site. If agreed to by the Contractor and the Engineer, the production start-up may be used for verification. If the production start-up is used for verification the Engineer may require removal and replacement of the HMA, at their discretion, in the event of verification failure.

Contractor quality control testing is optional. However, if the Contractor fails to submit quality control results to the Engineer within seventy-two (72) hours of HMA placement, the Contractor waves all rights to dispute the Engineer's results. In the event of asphalt binder, TSR, or Hamburg wheel track testing by the Engineer, the contractor has seven (7) days to submit their test results from the time the Engineer informs the Contractor that they are performing testing or the Contractor waves the right to dispute the Engineer's results.

Replace Section 39-2.02D Payment with:

Measurement and Payment for HMA will be at the unit cost indicated in the Bid Schedule. The contract prices paid per ton for HMA will include full compensation for furnishing all labor, materials, tools, equipment, and incidentals for doing all the work involved in constructing HMA, complete in place, as shown on the Plans, as specified in these Specifications and the Special Provisions and as directed by the Engineer.

Contract will include in the unit price all costs relating to submitting the JMF, including all testing costs for JMF verification and quality control testing. The unit price will include the cost of providing the Contractor's Quality Control Plan. The Contractor shall pay all the cost of coring if requested to verify density by cores. Engineer will pay cost of testing cores.

Add to Section 39-3.04 General:

Contractor shall only remove what can be paved back during the same work period only after Engineer approves removal of unsuitable material unless otherwise noted or directed by the City or Engineer.

Contractor and Engineer shall mark out the areas designated to be cold planed at least three (3) days prior to performing work, and also verify traffic control in work area.

Contractor shall schedule the work such that permanent paving shall be completed within five (5) working days after cold planing and within five (5) working days after FDR—cement treatment.

Prior to removing asphalt, the area to be removed shall be approved by the Engineer. Contractor shall not begin digouts on both sides of a street simultaneously without prior approval from the Engineer.

The pavement areas designated to be replaced shall be removed to a uniform depth as specified, and shall be removed by cold planing. Jagged or flattened cuts will not be accepted. Any broken or damaged pavement edges shall be re-cut prior to paving. All removed material shall be cleared from the site. Contractor is also responsible for all grindings.

At the end of each working day for any open excavation, material shall be placed and compacted against the vertical cuts to bring excavation up to grade. In the vehicular travel way, asphaltic material, compacted miscellaneous base or plating may be used. If plates are used, they must be secured in place.

Cold planing shall include all work necessary to remove existing asphalt and/or concrete pavement to a predetermined depth as indicated on the drawings. The work includes, but is not limited to, removal of the existing pavement adjacent to gutters, cross gutters, ends of overlays, equipment crossings, railroad crossings, and bridge approaches. Existing pavement surface on roadways to be milled prior to pavement inlay shall be cold planed as specified herein.

Cold planing shall include all work necessary to remove existing asphalt and/or concrete pavement to a predetermined depth as indicated in the construction details. The work includes, but is not limited to, removal of the existing pavement adjacent to gutters, cross gutters, ends of overlays, equipment crossings, railroad crossings, and bridge approaches.

Existing pavement surface on roadways to be milled prior to pavement inlay shall be cold planed as specified herein.

Limits of cold planing will be determined by the Engineer prior to construction. The depths and dimensions of the cold planing and keycuts are designated in the construction details.

Equipment

The machine used for planing shall have performed satisfactorily on similar work and shall meet the following requirements:

- The planing machine shall be specially designed and built for planing of bituminous pavements without the addition of heat. It shall have the ability to plane Portland cement concrete (PCC) patches in the bituminous pavement or PCC pavements. The cutting drum shall be a minimum of 48 inches wide and shall be equipped with carbide tip cutting teeth placed in a variable lacing pattern to produce the desired finish.
- The machine shall be capable of being operated at speeds of 0 to 40 feet per minute. It shall be self-propelled and have the capability of spraying water at the cutting drum to minimize dust. The machine shall be capable of removing the material next to the gutter of the pavement being reconditioned and so designed that the operator thereof can at all times observe the planing operation without leaving the controls. The machine shall be adjustable as to slope and depth.

Roadway Preparation

The work shall consist of preparing the existing street surfaces prior to the commencement of paving. Such work shall include removing raised pavement markers, removing all thermoplastic and paint traffic markings and legends, controlling nuisance water, sweeping, watering, and removing loose and broken asphalt concrete pavement and foreign material; and removal of weed growth as specified in the State Standard Specifications and these Special Provisions, and as directed by Engineer. Any roadway area that contains existing weed growth shall be treated with an EPA-approved herbicide.

Prior to cold planing on streets to be milled, all utility covers shall be lowered such that the cutting teeth of the planing machine passes over the adjusted lid without causing damage to the lid or frame. Contractor shall be responsible for maintaining any temporary asphaltic fill material over these facilities until the final paving surface is installed.

Tolerances

The pavement surface after cold planing shall be uniformly rough. The grade shall not deviate from a suitable straight edge more than 1/4-inch at any point. When multiple passes are required to create the cold planed surface, the maximum variation from a string line or straight edge shall be 1/4-inch high to 1/2-inch low. High points out of tolerance shall be replaned to fall within tolerance. Low areas shall be filled with asphalt concrete as specified herein to meet tolerances. The cost of such correction of low areas shall be entirely the Contractor's.

Removal and Disposal of Material

During the planing operation, Contractor shall sweep the street with mechanical equipment and remove all loosened material from the project site until completion of the removal work. Contractor shall take all necessary measures to avoid dispersion of dust. Contractor shall notify Engineer for approval of swept surface prior to Tack Coat application.

In addition to removing the cold milled asphalt concrete, Contractor shall remove any hot mix asphalt which is adhered to the top of the adjacent gutter, cross gutter or spandrel

Air Pollution Control

The Contractor shall take all necessary measures to avoid the dispersion of dust.

Attention is directed to Section 14-9.02 AIR POLLUTION CONTROL of the State Standard Specifications.

Water for cold milling shall be provided by Contractor and shall be considered integral to cold milling in terms of payment.

Temporary Transitions

Contractor shall construct temporary pavement transitions at all cold planed areas greater than 0.08-foot (1-inch) prior to allowing traffic onto the cold planed areas. This includes both longitudinal and transverse directions. This also includes PCC facilities around corners from beginning of curb return to end of curb return, PCC cross gutters and PCC spandrels. Temporary pavement transitions shall have a maximum slope of 20:1 (H:V) or as approved by Engineer and be constructed on Kraft paper or other suitable bond breaker such that upon removal of the temporary pavement transition, a clean notch remains. The temporary transitions shall be constructed of hot mix asphalt.

Contractor shall continuously maintain the temporary pavement until final paving. Each temporary transition shall be inspected by Contractor and repaired as necessary to comply with these provisions at the end of each day including weekends and holidays.

Failure to comply with these provisions will result in a liquidated damage of \$250 per day per transition and/or the cost of City crews making the repairs if necessary to correct for public safety.

Subgrade

If base rock is exposed, the surface shall be compacted and proof-rolled in the presence of Engineer or designated representative. The pavement area shall be cleaned and tack coated.

At areas where the underlying material appears to be wet or soft, or where it deflects under wheel loads, Contractor shall employ excavation and grading techniques which do not worsen the subgrade condition.

Prior to placing asphalt concrete, the area shall be proof-rolled with a loaded construction vehicle, preferably a ten cubic yard dump truck or equivalent. The compacted surface shall not visibly yield or deflect. Soft, yielding, unstable, or unsuitable areas shall be removed and replaced with base rock or asphalt concrete. If the areas were caused or significantly worsened by Contractor's operations, these areas shall be replaced at Contractor's expense.

In the event that the underlying material is soft, yielding, unstable, or unsuitable, comply with Section 19-1.03B UNSUITABLE MATERIAL of these Special Provisions.

Placement of Permanent Hot Mix Asphalt

Hot Mix Asphalt (HMA) for Remove and Replace HMA shall be SP-85 Type A and conform to Section 39 ASPHALT CONCRETE of the State Standard Specifications and these Special Provisions. HMA binder shall be PG 64-10 unless specified on the plans or approved by Engineer.

Keycuts

Cold planing along existing gutters at the edges of roadways shall typically be "Keycut Type A1" as listed in the Bid Schedule. Cold planing of the pavement edge at cross gutters, across commercial driveways, at equipment crossings, at bridge approaches, or at the end of overlays shall typically be "Keycut Type B1" as listed in the Bid Schedule.

On roadways to be cold planed for keycuts, the Contractor shall remove material as shown in the keycut details in the Plans. Remaining material at gutter lips shall be removed to the depth of the adjacent milled surface after completion of cold planing.

Cold planing may be used for pavement removal in advance of pavement digouts or removal and replacement.

HMA Dikes

Contractor shall remove any HMA dikes and replace them with the type as indicated on the project plans.

Replace Section 39-3.04D Payment with:

Measurement and Payment for cold planning and placement of HMA will be at the unit cost indicated in the Bid Schedule. The contract prices paid per ton for HMA include full compensation for furnishing all labor, materials, tools, equipment, and incidentals for doing all the work involved in constructing HMA, complete in place, as shown on the plans, as specified in these Special Provisions and as directed by Engineer.

Contractor will include in the unit price all costs relating to submitting the JMF including all testing and production costs for JMF verification and quality control testing. The unit price includes the cost of providing Contractor's Quality Control Plan. Contractor shall pay all the cost of coring if requested to verify density by cores. Engineer will pay cost of testing cores.

Subsection 9-1.06B INCREASES OF MORE THAN 25 PERCENT and Section 9-1.06C DECREASES OF MORE THAN 25 PERCENT of the State Standard Specifications will not apply to the bid items related to removing and replacing pavement or digouts.

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DIVISION IX TRAFFIC CONTROL DEVICES

82 SIGNS AND MARKERS

Add to Section 82-3.01 GENERAL:

Contractor shall salvage removed roadside signs and mailboxes and notify Engineer if any appear damaged.

Add to Section 82-3.02 MATERIALS:

Contractor shall reuse existing posts. Any post needing to be replaced shall be per County of Santa Barbara Standard Detail 7-050 (September 2011) and 82-3.02B of the Standard Specifications.

Add to Section 82-3.03 CONSTRUCTION:

Posts shall be installed per County of Santa Barbara Standard Detail 7-050 (September 2011). Engineer shall confirm roadside location prior to installation.

Add to Section 82-3.04 PAYMENT:

Measurement and payment for "**Remove, Salvage & Replace Roadside Sign**" will be paid on a unit cost basis as identified in the Bid Schedule.

The above contract unit costs will be considered full compensation for furnishing all labor, materials, tools, equipment, transportation, and incidentals; and for performing all the work involved as detailed in the Standard Specifications, these Special Provisions, County of Santa Barbra Standard Drawings and Details (September 2011), and the Plans and typical sections. The cost of mounting new or salvaged signs (if necessary) will be included in the unit cost of the work. No additional compensation will be allowed, therefor.

84 MARKINGS

Replace Section 84-2.01A Summary with:

Comply with Section 84 MARKINGS of the 2024 State Standard Specifications for applying and constructing markings excepted as modified in these Special Provisions.

Markings must comply with the CA MUTCD.

Replace Section 84-2.01C Submittals with:

The Contractor shall provide the following submittals, for the Engineer's review and approval, for each lot and/or batch of traffic stripe material, pavement marking material, primer, and/or glass beads:

1. Certificate of compliance, including the material name, lot and/or batch number, and manufacture date

- 2. Materials Engineering and Testing Services notification letter stating that the material is authorized for use, glass beads only
- 3. Safety Data Sheet
- 4. Material Data Sheet for Thermoplastic, Paint, and/or Primer
- 5. Manufacturer's Instructions
- 6. Certificate of Compliance for each color of pavement marking and/or traffic stripe
- 7. Certificate of Compliance for glass beads
- 8. Cut Sheet for temporary pavement markers
- 9. Pre-Construction existing striping plan

For each lot and/or batch of thermoplastic, submit a manufacturer's certificate of compliance and the following test results from the California Test 423:

- 1. Brookfield Thermosel viscosity
- 2. Hardness
- 3. Yellowness index, white only
- 4. Daytime luminance factor
- 5. Yellow color, yellow only
- 6. Glass bead content
- 7. Binder content

The date of the test must be within one (1) year of use.

Submit test results for each lot of beads specifying the EPA test methods used and tracing the lot to the specific test sample. The testing for lead and arsenic content must be performed by an independent testing laboratory.

Submit the thermoplastic test stripe to the Engineer.

Submit to the Engineer, the retroreflectivity test result within five (5) days of testing the traffic stripes and pavement markings. The data must include the retroreflectivity, time, date, and GPS coordinates for each measurement.

Add to the end Section 84-2.02G Recessed Two-Component Painted Traffic Stripes and Pavement Markings Paint :

All traffic markings and striping constructed with Rapid Dry Paint shall be made in two (2) applications, three (3) days minimum between each application, each at the specified application rate. The first application shall be applied within five (5) calendar days after completion of paving.

Replace *Reserved* in Section 84-2.02H with:

Existing Painted Curb

If painted curb is removed and replaced with a new curb, the Contractor shall paint the new curb with the same color and length, unless approved by the Engineer.

Paint shall be in accordance with Section 84-2.02G PAINT.

2025 ARTERIAL PAVEMENT PROJECT	
CITY PROJECT NO. N/A	
SP-143	
ADDENDUM 1	

Replace Reserved in Section 84-2.02I with:

Green Bike Lane Markings

Green bike lane/box treatments shall be methyl methacrylate pavement markings material from the California Department of Transportation Authorized Materials Lists (AML).

Replace *Reserved* in Section 84-2.02J with:

Pavement Markers

Pavement Markers shall be in conformance with Section 81-3 PAVEMENT MARKERS, of the 2024 State Standard Specifications.

Replace the 1st Paragraph in Section 84-2.03A General with:

The Contractor shall be responsible for compiling an existing striping and marking plan, for all streets that do not already have a striping layout, including but not limited to stop bars, legends, crosswalks and other traffic delineation markings within the project prior to removing, obliterating, covering any existing striping, and/or starting work on the affected street. These plans shall be submitted to the Engineer and approved prior to any work and/or staging on the affected street.

The City will not be required to provide any assistance, information, and/or materials to the Contractor. It will be entirely the responsibility of the Contractor to perform all necessary pre-construction and construction layout work, obtain all necessary measurements, obtain all necessary materials, and obtain all necessary information, and prepare all working plans for performing the pavement marking and traffic striping work, as specified. All traffic control systems necessary for performing pavement marking and traffic striping work, as directed by the Engineer, shall be the responsibility of the Contractor.

The Contractor shall establish the alignment for traffic stripes and the layouts for pavement markings with a device or method that will not conflict with other traffic control devices.

All markings, notes, objects, and/or any tool used by the Contractor for identifying existing and/or proposed pavement markings and/or traffic striping shall be removed by the Contractor prior to acceptance of work. No additional compensation shall be given to the Contractor for this work.

Add to the end of Section 84-2.03B Surface Preparation Application of Traffic Stripes and Pavement Marking:

Contractor shall be responsible for accurately referencing out and replacing the traffic stripes and positions of all traffic stripes, directional lines, arrows, and all other pavement markings in accordance with the plans and City standard markings by cat tracking with painted marks. This shall occur no later than one hour behind the final surface course paving operation or no later than four hours behind a slurry seal.

2025 ARTERIAL PAVEMENT PROJECT
CITY PROJECT NO. N/A
SP-144
ADDENDUM 1

Cat tracking shall consist of stretching a rope on a straight line between control points on tangent alignment and on a true arc through control points on curved alignment and placing spots of paint along the rope.

Prior to application of permanent pavement marking and traffic stripes, the Contractor shall call for review and approval of the proposed striping by the Engineer and/or agent. The Engineer and/or agent retains the right to make changes, deletions, additions, and/or corrections to the location and alignment of all pavement markings and traffic stripes. Permanent pavement markings and traffic stripes shall not be applied until after approval is granted by the Engineer and/or agent. The Contractor shall allow a minimum of three (3) working days for review of the layout of each roadway, by the Engineer and/or agent.

All application of pavement markings and traffic striping shall be done to the satisfaction of the Engineer.

Permanent pavement markings and traffic striping shall be completed within fourteen (14) to twenty (20) calendar days after the completion of the placement of new asphalt for that roadway.

Permanent pavement marking and traffic striping shall be completed within seven (7) to fourteen (14) calendar days after the completion of slurry seal for that roadway.

Replace the 2nd Paragraph in Section 84-2.03B(2)(b) Extruded Thermoplastic of the RSS with:

The applied traffic stripe must be at least 0.100-inch thick.

Replace the 2nd Paragraph in Section 84-2.03B(2)(c) Sprayable Thermoplastic of the RSS with:

The applied stripe must be at least 0.050-inch thick.

Replace the 3rd Paragraph in Section 84-2.03B(2)(d) Thermoplastic with Enhanced Wet-Night Visibility of the RSS with:

The applied stripe must be at least 0.100-inch thick.

Replace the 2nd Paragraph in Section 84-2.03B(3) Methyl Methacrylate of the RSS with:

Apply methyl methacrylate at a minimum thickness of 0.100-inch for traffic stripe and pavement markings.

Replace *Reserved* in Section 84-2.03B(8) of the RSS with:

Temporary Overlay Markers (TOM)

2025 ARTERIAL PAVEMENT PROJECT
CITY PROJECT NO. N/A
SP-145
ADDENDUM 1

Within one (1) hour after the removal of existing striping, either through pavement grinding, striping removal, and/or any other operations that changes the existing striping, the Contractor shall place Temporary Overlay Markers (TOM) at the location of the existing striping. Within 1 hour after placement of new asphalt and/or within four (4) hours of placement of slurry the Contractor shall place Temporary Overlay Markers (TOM) at the location of the location of the placement of slurry the Contractor shall place Temporary Overlay Markers (TOM) at the location of the proposed striping.

TOM shall be listed in the latest version of Caltrans Authorized Materials List (AML) for Signing and Delineation Materials. TOM shall be reflective on both sides and installed in accordance with the manufacturer's specifications.

TOM placement shall be at locations in accordance with guidance and/or direction from the Engineer, and at least in accordance with the requirements below:

- 1. TOM Centerline Markings shall be yellow and placed no more than 24 feet apart on straight segments. TOM Centerline Markings shall be placed no more than 12 feet part on curve segments and within 100 feet of an intersection. Two (2) TOM Centerline Markings shall be placed adjacent to each other at least 48 feet prior to an intersection and on roadways with more than 3 lanes.
- 2. TOM Lane Line Markings shall be white and placed no more than 50 feet apart on straight segments and no more than 25 feet apart on curve segments.
- 3. At Stop Bars Locations, TOM shall be white and shall be placed in one (1) layer 12 inches apart horizontally, along the length of the Stop Bar.
- 4. At Crosswalks, TOM shall be the color recommended by the California Vehicle Code. TOM shall be placed in two layers 10 feet apart vertically and 12 inches apart horizontally using a standard crosswalk pattern.

The Contractor shall inspect the placement and condition of all TOM at least in the morning, prior to starting any work, and at the end of the day, prior to leaving the job site. Any TOM that has moved shall be replaced with a new TOM. The Contractor shall replace and/or relocate any TOM at the direction of the Engineer.

The Contractor shall use temporary paint along with TOM in accordance with guidance and/or direction from the Engineer.

Replace *Reserved* in Section 84-2.03B(9) with:

Liquidated damages of \$300 per street per each day or part thereof will be applied for failure to comply with the requirements of temporary or permanent installation of traffic striping, pavement markings, or pavement markers.

Replace Section 84-2.04 Payment with:

Payment for "**Permanent Pavement Striping, Markers and Pavement Markings**" will be on a lump sum basis as identified in the Bid Schedule and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work involved with placement of cat track, striping, markers, and pavement markings as specified in the Special Provisions. No additional compensation will be allowed therefor.

Payment for "**Removal of Existing Striping**" will be on a lump sum basis as identified in the Bid Schedule and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work involved with removing existing striping, markers, and pavement markings prior to placement of proposed striping, markers, and pavement markings. No additional compensation will be allowed therefor.

Payment for "**Temporary Paint for Pavement Stripes, Markings, and Markers**" will be on a lump sum basis as identified in the Bid Schedule and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work involved with placement of temporary striping, Temporary Overlay Markers (TOM), and pavement markings. No additional compensation will be allowed therefor.

DIVISION XI MATERIALS

90 CONCRETE Add to Section 90-1.01 General:

Portland cement concrete (PCC) facilities shall include curbs, curbs and gutters, cross gutters, spandrels, sidewalks, curb ramps, and driveways that shall be removed and replaced or constructed at the locations indicated on the plans or as directed by Engineer.

Curb ramps shall be per the State Standard Specifications and Standard Drawings A88A and A88B.

Any other work required to construct curbs and gutters, sidewalks, curb ramps, and/or driveways including, but not limited to, demolition, sawcutting, concrete removal, traffic control, aggregate base, aggregate base and/or compaction, and associated asphalt concrete pavement shall be considered incidental to the work and no additional compensation will be allowed therefor.

Add to Section 90-1.02 Materials:

All concrete shall be Type II cement. Contractor shall furnish a concrete mix design to Engineer at least ten (10) working days prior to the start of the work, based on the following guidelines:

General Concrete Facilities including curb, gutter, spandrel, sidewalk, access ramps, residential driveways, etc. shall meet the following requirements:

Compressive Strength:	2500 psi @ 28 days
Polypropylene Fiber Reinforcement:	1.5 lbs/cy (0.01% by volume), 3/4-inch minimum length
Maximum Slump:	5 inches

Heavy Vehicular Facilities including cross gutters, spandrels, swales, commercial driveways, and alley entrances shall meet the following requirements:

Compressive Strength:	2000 psi @ 3 days, 4000 psi @ 28 days
Polypropylene Fiber Reinforcement:	3.0 lbs/cy (0.02% by volume), 1-1/2 inches minimum length
Maximum Slump:	4 inches

Contractor shall be responsible for all costs associated with the required mix design.

2025 ARTERIAL PAVEMENT PROJECT
CITY PROJECT NO. N/A
SP-148

Concrete Curb Ramps

Contractor shall provide pedestrian traffic control plan to ensure accessible pedestrian access around the project site.

Concrete curb ramps shall be constructed in accordance with the County of Santa Barbara Standard Plans, the State Standard Specifications and the Standard Plans. A copy of the Standard Plans for curb ramp construction are attached in the Appendix N.

Sawcut and remove existing concrete curb ramps to nearest existing joint and dispose of at a recycle facility.

Compact subgrade to minimum 90% relative compaction.

Aggregate base under curb ramps shall meet the requirements of Section 26 AGGREGATE BASE of these Special Provisions. Place and compact minimum 6 inches aggregate base to minimum of 95% relative compaction under limits of the curb ramps.

Concrete curb ramps shall be constructed of Class 520-C-2500 concrete (4 inches max slump.

Detectable Warning Surface (Cast-in-Place)

All curb ramps shall have a detectable warning surface. Detectable warning surface shall be in the form of tiles manufactured from a fiberglass reinforced ultraviolet stabilized polymer composite. The tiles shall be wet-set, cast-in-place. Detectable warning surface tiles shall conform to the requirement established by the Department of General Services, Division of State Architect and incorporate an in-line pattern of truncated domes measuring nominal 0.20-inch in height, 0.90-inch base diameter, and 0.45-inch top diameter, and spaced 2.35 inches center-to-center as measured side by side. The field area shall consist of a high density, pyramid micro textured of raised points 0.05-inch high. Detectable warning surface tiles shall be Armor-Tile or approved equal. Detectable warning surface tiles color shall be "Federal Yellow" per State Standards.

Installation of surface applied detectable warning surface on a fully reconstructed curb ramp shall not be allowed unless approved by Engineer. If an existing curb ramp has been determined to have compliant slopes and dimensions and only needs a detectable warning surface added, the Contractor shall apply a SafetyStepTD detectable warning surface.

Detectable warning surface tiles shall be configured such that the required area is covered by no more than two (2) tiles to conform to the dimensions as shown on the Plans, and as directed by Engineer. If multiple detectable warning surface tiles are used, joint shall be joined in the curb ramp or as approved by Engineer.

Detectable warning surface tiles shall conform to the following ASTM specifications:

- ASTM D 695 Compressive Strength Not less than 25,000 psi
- ASTM D 790 Flexural Strength Not less than 30,000 psi
- ASTM D 570 Water Absorption 0.05%
- ASTM C 1028 Slip Resistance 0.8 wet/dry
- ASTM E Flame Spread Index ≤25
- ASTM B117 Salt Spray No Change (300 hours)
- ASTM 1308 Chemical Stain No Effect
- ASTM C 501 Abrasion Resistance Lw>500
- ASTM G 155 Accelerated Weathering Delta E<5 (2,000 hours)
- ASTM D 638 Tensile Strength 12,500 psi
- AASHTO-H20 Load Bearing at 10,410 lbs. No Cracking, Delamination or Deformation
- ASTM C 1026 Freeze/Thaw/Heat No Chipping, Cracking or Peeling
- ASTM D 1037 Accelerated Aging [Freeze/Thaw] No Change in Color, Gloss, Delamination
- ASTM D 696-03 Linear Thermal Expansion 9.45x10-7 per degree Fahrenheit

Detectable warning surface tiles shall be suitably packed or crated to prevent damage in shipment or handling. Finished surfaces shall be protected by sturdy plastic wrappings to protect tile from concrete residue during installation and tile shall be identified by part number. Protective plastic wrapping shall be removed within 24 hours after tiles are installed.

Detectable warning surface installation shall comply with Manufacturer's recommendations.

Detectable warning surface tiles shall be warranted in writing for a period of five (5) years from date of final completion. The guarantee shall include defective work, breakage, deformation, fading and loosening of tiles.

Contractor shall submit the make and model of detectable warning surface at least twenty (20) working days prior to the first curb ramp reconstruction.

Contractor shall be certified as a truncated dome installer and possess an installation certification from a truncated dome manufacturer that shall be proved five (5) working days prior to the first curb ramp reconstruction.

Quality Assurance Field Testing

Field testing shall include testing for concrete slump as per ASTM C-143 and compressive strength (C39). Such testing shall be at a frequency determined by the Engineer and shall be performed by the City at the City's expense. The Contractor shall furnish the concrete necessary for casting test cylinders.

Add to Section 90-1.03 Construction:

New concrete for PCC pedestrian paths (sidewalks, curb ramps), shall be a minimum thickness of 6 inches.

All curb ramps and island passageways shall comply with Caltrans Standard Plans A88A or A88B and shall meet current American with Disabilities Act (ADA) guidelines. The normal gutter line shall be maintained through the area of the curb ramp unless otherwise noted. Curb ramps shall conform to the slopes and dimensions indicated on the Standard Plans. Curb ramps shall be located within marked limits of crosswalks.

Where spandrels are being reconstructed, the entire spandrel shall be removed and replaced.

The existing concrete shall be sawcut full depth prior to removal. Any concrete broken due to Contractor's failure to comply with these requirements shall be removed and replaced at Contractor's expense.

The line and grade of the replaced facilities shall conform to the existing facilities. In most instances, this will consist of a straight line between existing facilities.

Contractor shall water test all repaired curbs and gutters, cross gutters, and other repaired drainage facilities in the presence of City's Inspector.

In areas where curbs and gutters shall be removed and replaced, if they are part of a curb ramp reconstruction, the gutter width shall widen to **24 inches** in front of the curb ramp landing then taper back to the original width unless otherwise noted on plans. Additionally, counter slopes of adjoining gutters and road surfaces immediately adjacent to and within **24 inches** of the curb ramp landing shall not be steeper than 5%.

Commercial driveway and alley approaches, including the adjacent curb and gutter section, shall be removed and replaced within 24 hours. Curing time shall be 72 hours.

Contractor shall saw and remove all concrete groove and replace with concrete and castin-place detectable warning surface as needed.

Contractor shall note any utility stamps in the existing concrete prior to removal and replace stamps in kind. Additionally, if removal and replacement of concrete results in existing curb paint or painted property address numbers being removed, they shall be repainted in kind.

Contractor shall anticipate pruning and removing existing tree roots at all concrete facilities to be constructed or removed and replaced. The work for all concrete facilities to be constructed or removed and replaced shall include all labor, materials, tools, equipment, transportation, and incidentals; and for performing all the work involved in pruning and removal of existing tree roots.

Protection of Existing Facilities

The contractor shall protect existing facilities from damage, and discoloration from concrete splash. Adjacent concrete facilities shall be covered during concrete placement to prevent concrete splash and excess concrete from staining the adjacent concrete. After initial placement, strikeoff and finishing, the protection shall be removed and the adjacent concrete cleaned.

Vertical existing facilities such as light poles, walls, etc. shall be protected with plastic extending a minimum of three (3) feet above the concrete surface. After initial placement, strikeoff and finishing, the protection shall be removed and the vertical surfaces cleaned.

All utility lids shall be adjusted to the finish grade.

Subgrade

After the subgrade is prepared, moisture conditioned, and compacted to 90% relative compaction at 0 to 3% over optimum, Contractor shall continuously maintain the subgrade in a uniform condition at the moisture content obtained during subgrade compaction until the concrete is placed.

Cleanup and Backfill

After the concrete is placed, cured, and the forms have been removed, Contractor shall clean the site of all concrete and forming debris. The aggregate base shall be replaced to match the existing base and compacted to 95% relative compaction. The pavement shall be restored in accordance with Section 39 ASPHALT CONCRETE.

After curing has been completed and the forms have been removed from the new curb and gutter or sidewalk, the void between the new concrete and the existing parkway shall be filled with clean native material, and the entire parkway left in a clean and orderly condition.

For concrete removed but not replaced, the resulting void after excavation shall be backfilled with clean native material unless otherwise noted.

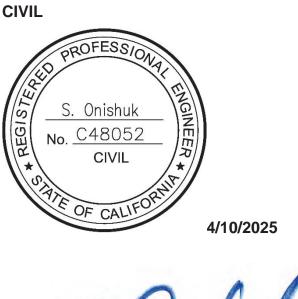
Replace Section 90-1.04 Payment with:

Measurement and payment for the miscellaneous concrete construction items will be paid on a unit cost basis as identified in the Bid Schedule. This work will include full compensation for furnishing all labor, materials, tools, equipment, and incidentals for doing all work involved in constructing concrete features, including but not limited to subgrade preparation, supplying, placement and compaction of aggregate base, asphalt concrete removal and curb ramp construction work, Portland cement concrete removal and replacement including curb, gutter, and sidewalk, detectable warning surface, retaining curbs, dowels, reinforcement materials, associated traffic control, and coordination with utility agencies, and all work as may be required by the Contract Documents, as specified herein, and as directed by Engineer. No additional compensation will be allowed, therefor.

> 2025 ARTERIAL PAVEMENT PROJECT CITY PROJECT NO. N/A SP-152

BID ALTERNATE 1 CITY PROJECT NO. 9062 SPECIAL PROVISONS

The Special Provisions contained herein have been prepared by or under the direction of the following Registered Person(s).



S. Onishulz

Scott Onishuk, P.E. Principal Engineer Bengal Engineering, Inc.

ORGANIZATION

Special provisions are under headings that correspond with the main-section headings of the *State Standard Specifications*. A main-section heading is a heading shown in the table of contents of the *State Standard Specifications*.

Each special provision begins with a revision clause that describes or introduces a revision to the *State Standard Specifications* as revised by any revised standard specification.

Any paragraph added or deleted by a revision clause does not change the paragraph numbering of the *State Standard Specifications* for any other reference to a paragraph of the *State Standard Specifications*.

DIVISION I GENERAL PROVISIONS

5 CONTROL OF WORK

Replace Reserved in Section 5-1.20H with:

During the progress of the work built by the Contractor for the City of Goleta under this contract, various utility owners will relocate their own facilities which are shown on the "Existing Utility and Conflict" plans.

These plans were prepared by the Engineer during the design phase. More coordination was subsequently performed by the City which resulted in the Utility Relocation Agreements. These Utility Relocation Agreements require work, coordination, accommodations by the Contractor to complete this project.

The Contractor's attention is directed to those Utility Relocation Agreements with particular emphasis for the Contractor to note that the conditions and cooperation described in those Utility Relocation Agreements apply to the Contractor undertaking the roadwork, and that Contractor should evaluate the Utility Relocation Agreements, consider the impact to the Contractor's overall approach, workflow and scheduling, including accommodating the number of working days to allow the various utility companies to perform their work, and bid accordingly to include the necessary effort in all items as no separate item is included on the bid schedule for "Utility Relocation Coordination."

Note that the work and arrangements mentioned in the "Utility Relocation Agreements" is considered the baseline for this contract. In case of conflict between the plans, these Special Provisions, and the Utility Relocation Agreements, the Utility Relocation Agreements shall take precedence over and be used in lieu of such conflicting portions.

Measurement and Payment for Utility Conflicts Accommodations

The plans and these Special Provisions use the word "Contractor" to define the work or accommodations which are required by the roadway contractor to build the roadway improvements or accommodate the utility relocation or landscaping work of others. The

agreements for the City has made with others is described in the Utility Relocation Agreements.

The bid item for "Utility Relocation Accommodations" includes all effort, materials and coordination to either perform the work by the "Contractor", or to accommodate work which will be completed by others.

An overview of the utility conflicts which are shown on the "Existing Utilities and Conflicts" plans includes:

1. Cox Communications

Contractor to coordinate with Cox: Cox to relocate CTV pedestal and vault west of Station 54+15 "STO" line to new locations to accommodate the revised (widened) roadway. The location and depth of conduit is unknown: Contractor to pothole and protect other Cox facilities

2. Goleta Water District:

Contractor to coordinate with GWD to allow others to relocate facilities including vault in sidewalk and backflow preventor west of about station 53+15 "STO" line. The existing vault will not fit within the revised sidewalk and the existing backflow preventer will need to moved back away from the proposed back of walk to accommodate the new sidewalk

3. Goleta West Sanitary District:

Contractor to protect manhole frame and covers near limits of paving. Notify GWSD 48 hours days before paving near MH's to allow GWSD staff an opportunity to monitor paving near GWSD manholes.

4. Southern California Gas (SCG) Distribution

Contractor to protect facilities in place: Coordinate with SGC: SGC to pothole their own facilities during construction

5. UCSB Fiber Optic

The Contractor is to protect UCSB's fiber optic cables in place and to coordinate with UCSB to allow UCSB forces to replace splice vault which is in landscaping to a traffic-rated MH or vault at approximately the same location which is left of about Station 48+65 "STO" line. This vault will be in the new bus pocket.

6. Southern California Edison (SCE) Distribution

Contractor to Coordinate with SCE: SCE to reset MH frame and cover along new FL west of about station 54+40 "STO" line: elsewhere protect SCE in place: depths unknown

7. Frontier Communications

Contractor will be grading on top of lines in the vicinity west of stations 48+00 to 49+00 "STO" line. Contractor to pothole and protect Frontier lines. Depths unknown. Note this is a shared trench with CATV.

8. City of Goleta:

Contractor to relocate street lighting including conduit: lower signal interconnect, adjust City pull boxes, protect other facilities on site. Traffic Signal detector loops in pavement will be abandoned as City has transferred signal control to "AutoScope".

Utility Companies which state they envision "No Conflict": based on plans and utility coordination meetings:

Level 3 Communications	No response: Engineer believes they are located in UPR corridor far to the north			
SCG Transmission Hollister	No SCG Transmission in area: 16-inch gas is on N. Side of			
SCE Transmission	SCE Transmission has stated "no conflict"			
SCE Transmission Telecom No SCE Transmission Telecom in area				
Crown Castle	Crown Castle is located on East side of Storke, on the opposite side of the street, away from grading.			

DIVISION II GENERAL CONSTRUCTION 15 EXISTING FACILITIES

Add between the 6th and 7th paragraph of Section 15-1.03A:

Contractor to provide the Engineer with a minimum 30 calendar day warning for the day the existing bus shelter west of 54+65 "STO" line will be removed, and to show this removal as milestone on the project schedule so that the City can coordinate with Camino Real Marketplace.

If the shelter has not been removed by others by the date shown on the project schedule, and as approved by the Engineer, the shelter will be removed by the Contractor.

DIVISION III EARTHWORK AND LANDSCAPE 17 GENERAL

Add to the end of Section 17-2.03B:

Clearing and grubbing also includes removal and disposal of retaining walls, concrete hardscape, bus shelter structures, street furniture, and all incidentals required to make the site suitable for construction of the features shown on the plans.

See Section 15, "Existing Facilities", for more information about the bus shelter west of station 54+65 "STO" line

^^^^

19 EARTHWORK

Replace Section 19-1.01A(2) with:

All utilities, abandoned or live, not shown on the Plans that cross the excavation but do not physically conflict with the installation of the subgrade items of the Bid Proposal will be paid for under this item. A crossing shall be defined as any pipe, cable, conduit including signal and lighting, or duct structure that in the opinion of the Engineer crosses the excavation within 60 degrees of a line perpendicular to the excavation. If more than one utility crosses within a 15-inch-long section of the trench, then all the utilities in that cross section will be paid as one. Crossings that are more than 60 degrees from perpendicular, run parallel in the excavation, or physically conflict with the installation will be paid for on a time and material basis in accordance with Section 9 PAYMENT of the State Standard.

The quantity shown in the Proposal for this item shall be considered approximate. No guarantee is made or implied that the quantity will not be reduced, increased, or deleted as may be required by the Engineer. This item has been included in anticipation of encountering unmarked utility crossings during construction. If no unmarked utility crossings are encountered, then this item will be deleted.

Full compensation for conforming to the requirements of this section shall be considered as included in the per each unmarked utility. Payment shall be at the unit price bid per each unmarked utility crossing and shall include full compensation for furnishing all labor, materials, tools and equipment, and incidentals for performing all work necessary to excavate around and support existing utilities in place, pavement cutting and removal, excavation, backfilling and repaving or other surface restoration as specified Plans, these Special Provisions, the City of Goleta Engineering Design Standards, and as directed by the Engineer.

20 LANDSCAPE

Replace Section 20-10.02C(2) with:

20-10.02C(2) Check and Test Existing Irrigation Facilities

This contract will affect existing irrigation systems of the west side of Storke Road, and the landscaped median. The City has an agreement with others to re-landscape these areas.

As part of this contract, the Contractor shall determine the configuration of the existing irrigation supply lines, and the location of the controllers. The Contractor shall cap and clearly mark affective irrigation components so that others may complete work in the future.

Check and test existing irrigation system facilities that will remain in place or will be relocated before performing clearing and grubbing, earthwork, or other construction activity that will affect the existing irrigation system.

^^^^

DIVISION VI STRUCTURES 51 CONCRETE STRUCTURES

Add to Section 51-1.03G(1):

The stamped concrete median for this project shall match the existing color and pattern of the stamped median on Storke Road north of Hollister Ave. Contractor shall review that pattern and color and match it as approved by the Engineer. Contractor shall submit product data to Engineer for approval prior to ordering material for the work.

^^^^

DIVISION XI MATERIALS 90 CONCRETE

Add to the end of Section 90-1.04:

Payment for furnishing and installing dowels is included in the bid item cost for bus pad concrete.

END OF BID ALTERNATE 1 CITY PROJECT NO. 9062 SPECIAL PROVISONS



NOT USED





NOT USED

	GUARANTEE AND	NANCE BOND WARRANTY SECURITY	
WHERE	S, the City of Goleta ("C	ITY") and	
AGREEMENT" designated publ One (1) year follo	ic improvements and to g	grees to install and comple guarantee and warrant the ceptance, which agreement,	work for a period of
s hereby referre	ed to and made a par her	me of Project) reof; and	
to furnish a bon completion and	d to guarantee and warra acceptance against any o	cruired under the terms of ant he work for a period of defective work or labor dor erms of said AGREEMENT	one year following its ne, or defective
a under the laws o	IEREFORE, we, the PRII adm of the State of California, CITY in the penal sum of	itted and duly authorized to as Surety ("SURETY"), are	e held and firmly
), laviful money of t ly to be made, we bind o ointly and severally, firml	the United States, for the purselves, our heirs, succes by by these presents.	dollars ayment of which ors, executors and
executors, adm	histrators, successors or	such that if the PRINCIPAL assigns, shall abide by, ar rovisions in said AGREEM USSE	nd in all respects ENT and any

specified therefore, there shall be included costs and reasonable expenses and fees, including reasonable attorneys' fees, incurred by CITY in successfully enforcing such obligation, all to be taxed as costs and included in any judgment rendered.

Warranty Bond-Page 1



The SURETY hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the AGREEMENT or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect SURETY's obligations under this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the agreement or to the work or to the specifications. The SURETY waives all rights of subrogation against the CITY or any person employed by the CITY. The SURETY hereby waives the provisions of Section 2819 of the Civil Code.

IN WITNESS WHEREOF, this instrum PRINCIPAL and SURETY above-named, or	
20 PRINCIPAL:	SURETY:
BY: PRINT NAME: PRINT TITLE:	BY: PRINT NAME: PRINT TITLE:
AND	MAILING ADDRESS:
BY: PRINT NAME: PRINT TITLE:	(Notarization by Surety and
APPROVED AS TOPORM:	copy of Power of Anorney required.)
BY: Scott Shapses Deputy City Attorney	
NOT I	JSED

4

Warranty Bond-Page 2

APPENDIX A-2
APPENDIX A-2 ADDENDUM 1

CITY OF GOLETA

APPENDIX B CONTRACTOR'S DAILY REPORT

FOR

2025 ARTERIAL PAVEMENT PROJECT

APPENDIX B
ADDENDUM 1

Back of Cover Sheet

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION **DLA ASSISTANT ENGINEER'S DAILY REPORT**

DOT LAPM 16-C1 (NEW 10/2023)

PROJECT NO.									I	REPO	RT NO.			
FEDERAL PROJE	CT NO.								I	DATE				
PROJECT NAME														
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			BID ITEM							IDLE OR DOWN				
NAME	CLASSIFICATION	EQUIPMENT TYPE										REMA	RKS	
DESCRIPTION OF	WORK PERFORME	D FOR THE DAY												

NAME	SIGNATURE	TITLE
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CITY OF GOLETA

APPENDIX C MONUMENT PERPETUATION REPORT

FOR

2025 ARTERIAL PAVEMENT PROJECT

APPENDIX C
ADDENDUM 1

Back of Cover Sheet



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MONUMENT PERPETUATION REPORT

CITY OF GOLETA PAVEMENT REHABILITATION PROJECT COUNTY OF SANTA BARBARA, CA PEI PROJECT No. 230268

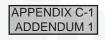


Prepared for:

Pavement Engineering, Inc.

Prepared by:

PACE Engineering, Inc.





MONUMENT PERPETUATION REPORT

NOTES:

- 1. This report is compiled from record information only. A field survey was not conducted.
- The intent of this report is to provide a preliminary assessment of the number(s), character(s), and location(s) of existing survey monuments which may be impacted by this project. Additionally, this report is intended to serve as a resource to assist with the monument preservation process.
- 3. A duly licensed Professional Land Surveyor or Civil Engineer authorized to perform boundary surveying in the State of California (hereinafter referred to as "licensed surveyor") shall be retained prior to construction to conduct a field survey to locate and perpetuate all existing survey monuments which may be subject to disturbance during construction. A Pre-Construction Corner Record shall be filed with the County Surveyor to preserve and perpetuate the location of each monument. Note: More than one monument may be depicted on a single Corner Record form. Additionally, a Record of Survey may be filed in lieu of a Corner Record at the discretion of the licensed surveyor.
- 4. After construction, the licensed surveyor shall reset and/or reestablish any monuments which were disturbed or destroyed by construction activities. A Post-Construction Corner Record shall be filed with the County Surveyor to preserve and perpetuate the location of each monument. Note: More than one monument may be depicted on a single Corner Record form. Additionally, a Record of Survey may be filed in lieu of a Corner Record at the discretion of the licensed surveyor.
- 5. The number(s), character(s), and location(s) of existing survey monuments depicted and summarized within this report may not be exhaustive. The licensed surveyor shall therefore be responsible for verifying the findings within this report.

SURVEYOR'S STATEMENT:

This report was prepared by or under the direct supervision of

Jesse Lenaker, LS Professional Land Surveyor (CA #8515)

12/6/24

Date





TABLE OF CONTENTS

INTRO		1
I.	PROJECT DESCRIPTION	1
II.	METHODOLOGY	1
ΜΟΝΙ	JMENT REPORTING	2
I.	SUMMARY OF RECORDED MONUMENTS	2
	Table 1 – Monuments of Record Within the Expected Area of Disturbance	2
	Table 2 – Possible Obliterated or Lost Monuments of Record	6

EXHIBITS

Exhibit A – Monument Perpetuation Exhibit

APPENDICES

Appendix A – California Business and Professional Code (Section 8771)

Appendix B – Corner Records and Intersection Ties

Appendix C – Record of Surveys, Tract Maps, and Parcel Maps

Appendix D – APN Maps

ABBREVIATIONS

The following abbreviations are used in this report:

CR Corner Record

IT Intersection Tie

PM Parcel Map

RS Record of Survey

TM Tract Map



INTRODUCTION

I. PROJECT DESCRIPTION

PACE Engineering, Inc. is submitting this report at the request of Pavement Engineering, Inc. for the Pavement Rehabilitation Project in the city of Goleta and the county of Santa Barbara. The project area pertains to portions of Calle Real, Berkeley Road, Hollister Avenue, Cambridge Drive, Andamar Way, Dara Road, South Fairview Avenue, Los Carneros Road, Stow Canyon Road, and Via Fiori.

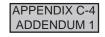
The purpose of this report is to research and document the existing survey monumentation and corner accessories, such as monumentation tie points in the curb, that are of record and may be located within the expected area of disturbance. Based on our understanding, the expected area of disturbance is limited to areas of existing pavement and curb ramps. This report is intended to be preliminary at the design phase and shall be superseded by a detailed survey prior to construction.

II. METHODOLOGY

The monument information within this report is based on record survey documents filed at the County Recorder's office. If a monument was set within the project area, it is shown as a green triangle on Exhibit A. The referenced corner record, intersection tie, or map (attached to Appendix A or B) shows a green cloud around the recorded monument. If the monument was not found or obliterated per a later survey, it is shown as a red dot on Exhibit A and a red cloud on the reference map, attached to Appendix C.

The approximate locations of the monuments are documented on Exhibit A by using AutoCAD. The exhibit is overlayed on aerial imagery provided by Autodesk, Inc. and approximate parcel lines provided by the City's GIS website. The approximated parcel lines should be used for graphical purposes only. The relationship between the aerial imagery and the parcel lines was best fit to match the existing topographic information and is approximate in nature.

Table 1 denotes the total number of monuments that may be subject to perpetuation for this project. Table 2 denotes the total number of possible lost or obliterated monuments that should also be field verified prior to the construction of this project.



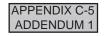
1

MONUMENT REPORTING

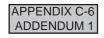
I. SUMMARY OF RECORDED MONUMENTS

Table 1 – Monuments of Record Within the Expected Area of Disturbance

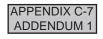
Street	Recorded	APN Map	Total	Monument Description
	Мар	7.1.11 map	Monuments	
	IT 10203	079-21	4	Lead Plug & Tag in Curb
	5 PM 25	079-21	3	1⁄2" Iron Pipe Tagged RCE 14,429
Hollister Ave	6 PM 53	079-21	1	1⁄2" Iron Pipe Tagged LS 3511
	172 RS 12	079-21	1	1-1⁄2" Iron Pipe w/ Brass Disk LS 3804
	201 TM 5	079-21	4	½" Nail & Tag LS 6491
	IT 10235 02	079-37	15	Lead Plug & Tag Marked RCE 2786
	IT 10235 03	079-38	2	Lead Plug & Tag Marked RCE 2786
	CR 4145	079-36	1	Mag Spike & Washer LS 6392
	CR 4051	079-36	1	Nail & Tag LS 6392
	CR 4051	079-36	1	Nail & Tag LS 3891
	CR 4144	079-38	1	Mag Spike & Washer LS 6392
	CR 4050	079-36	4	Nail & Tag LS 6392
	CR 4050	079-36	1	Sewer Manhole w/ 4 "X"s on Rim
	CR 4049	079-36	1	Sewer Manhole w/ 4 "X"s on Rim
Calle Real	CR 4048	079-36	2	Nail & Tag LS 6392
(Salisbury Ave to	CR 4048	079-37	1	Sewer Manhole w/ 4 "X"s on Rim
Rochester Way)	CR 4047	079-37	2	Nail & Tag LS 6392
Rochester Way)	CR 4047	079-37	1	Sewer Manhole w/ 4 "X"s on Rim
	CR 4046	079-37	1	Sewer Manhole w/ 4 "X"s on Rim
	CR 4045	079-37	1	Nail & Tag LS 6392
	CR 4045	079-37	1	Sewer Manhole w/ 4 "X"s on Rim
	CR 4044	079-37	1	Sewer Manhole w/ 4 "X"s on Rim
	CR 3206	079-37	2	Nail & Tag Marked SBCO Surveyor
	CR 2845	079-37	2	Nail & Tag Marked SBCO Surveyor
	CR 308	079-37	2	Nail & Tag in Lead Plug
	CR 262	079-37	2	Nail & Tag in Lead Plug
	70 TM 32-33	079-37	2	¾" Iron Pipe w/ Spike and Tag



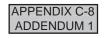
	CR 4148	077-15	1	Mag Spike & Washer LS 6392
	CR 4058	077-14	3	1⁄2" Iron Pipe Tagged LS 6392
	CR 4058	077-14	2	Nail & Tag LS 6392
	CR 4058	077-14	1	Sewer Manhole
	CR 4057	077-15	1	½" Iron Pipe Tagged LS 6392
	CR 4056	077-15	2	½" Iron Pipe Tagged LS 6392
	CR 4056	077-15	2	Nail & Tag LS 6392
	CR 4056	077-15	1	Sewer Manhole
Calle Real	CR 4055	077-14	1	Nail & Tag Marked SBCO Surveyor
(Calaveras Ave to Sonoma Ave)	CR 4055	077-14	2	1⁄2" Iron Pipe Tagged LS 6392
to Sonoma Ave)	CR 4055	077-14	2	Nail & Tag LS 6392
	CR 4055	077-14	1	Sewer Manhole
	CR 4052	077-15	1	Sewer Manhole
	CR 4052	077-15	1	Magnetic Nail & Washer Marked SBCO
	CR 4052	077-15	2	1⁄2" Iron Pipe Tagged LS 6392
	CR 4052	077-15	2	Nail & Tag LS 6392
	40 TM 92	077-14	3	Copper Spike & Tag RE 2786
	40 TM 92	077-14	1	6"x6" Concrete Hwy Monument
	IT 13072	073-15	4	Lead Plug & Tag Marked LS 3873
	CR 2860	073-15	1	Nail & Tag Marked SBCO Surveyor
	204 FM 41	073-15	3	2" Iron Pipe w/ Brass Washer PLS 7911
Los Carneros Rd	124 TM 8	073-15	4	¹ / ₂ " Iron Pipe Tagged LS 3873 (or)
	124 11010			Lead Plug Tagged LS 3873 in Concrete
	124 TM 8	073-15	1	1⁄2" Iron Pipe w/ Spike Tagged LS 3873
	58 TM 28	073-15	1	2" Iron Pipe Tagged RE 2786
Calle Real				
(Los Carneros Rd	66 RS 70	077-16	1	1⁄2" Iron Pipe w/ Spike Tagged RCE 3162
to Valdez Ave)				
	2 PM 98	073-08	1	1⁄2" Iron Pipe Tagged RCE 7704
S Fairview Ave	60 RS 59	073-08	1	½" Iron Pipe Tagged RCE 7704
	149 RS 84	073-08	2	2" Magnetized PK Nail Tagged LS 3945



Stow Canyon Rd				
(Fairview Ave to	150 TM 78	069-66	4	1⁄2" Iron Pipe w/ Spike Tagged LS 5470
Via Fiori)				
Via Fiori Ln		069-66	3	1/2" Iron Pipe w/ Spike Tagged LS 5470
	CR 2434	069-45	1	Waffle Spike Tagged RCE 7704
	CR 2434	069-45	4	SBCO Monument in Curb
	CR 2474	069-45	1	Sewer Manhole with 4 Tangent Nails
	CR 2474	069-45	4	SBCO Monument in Curb
Stow Canyon Rd	IT 13081	069-56	4	Lead Plug and Tag LS 4817
(West End to	IT 13081	069-56	1	Spike Tagged LS 4817
Cambridge Dr)	IT 11184	069-56	2	³ ⁄ ₄ " Iron Pipe w/ Spike Tagged RCE 10276
	IT 11184	069-56	14	Lead Plug and Tag RCE 10276
	IT 11184	069-56	1	Nail & Tag set in Concrete Manhole Collar
	72 TM 34-35	069-45	4	3⁄4" Iron Pipe w/ Spike Tagged RCE 7704
	77 TM 83	069-56	3	³ / ₄ " Iron Pipe w/ Spike Tagged RCE 10276
Stow Canyon Rd	IT 11184	069-56	1	³ ⁄ ₄ " Iron Pipe w/ Spike Tagged RCE 10276
(East Cul-de-sac)	IT 11184	069-56	4	Lead Plug and Tag RCE 10276
Stow Canyon Rd	IT 11184	069-56	1	Nail & Tag set in Concrete Manhole Collar
(West Cul-de-sac)	IT 11184	069-56	4	Lead Plug and Tag RCE 10276
	IT 10267	069-37	12	Lead Plug and Tag RCE 2786
Andamar Way	71 TM 48-49	069-37	5	³ / ₄ " Iron Pipe w/ Spike (or)
	71 110 40-43			Sewer Manhole w/ 4 "X"s on Rim
	IT 10267	069-37	10	Lead Plug and Tag RCE 2786
Dara Rd	71 TM 48-49	069-36	069-36 3	³ ⁄ ₄ " Iron Pipe w/ Spike (or)
	5 - 0 - 10 - 10 - 10 - 10 - 10 - 10 - 10	000-00		Sewer Manhole w/ 4 "X"s on Rim
	CR 3211	069-12	1	Nail & Tag Marked SBCO Surveyor
Cambridge Dr	CR 3211	069-12	1	Sewer Manhole
	IT 10111	069-12	8	Lead Plug Tagged RCE3165 or RCE 2786
	53 TM 66	069-12	3	³ ⁄ ₄ " Iron Pipe w/ Spike Tagged RCE 3162



Total			278			
City Limits)						
(Kellogg Ave to	None					
Calle Real						
Berkeley Rd	54 TM 21	069-15	3	Sewer Manhole w/ 4 "X"s on Rim ³ ⁄ ₄ " Iron Pipe w/ Spike		
	53 TM 67	069-12	3	³ ⁄4" Iron Pipe w/ Spike (or)		
	53 TM 70	069-12	4	Sewer Manhole w/ 4 "X"s on Rim		
				³ / ₄ " Iron Pipe w/ Spike (or)		
	70 TM 46-47	069-32	3	³ / ₄ " Iron Pipe w/ Spike Tagged RCE 7704		
	70 TM 46-47	069-32	2	Sewer Manhole w/ 4 "X"s on Rim		
	74 TM 64-65	069-51	8	³ / ₄ " Iron Pipe w/ Spike Tagged RCE 1409		
	74 TM 64-65	069-51	3	Sewer Manhole w/ 4 "X"s on Rim		
	IT 10402	069-51	11	Lead Plug and Tag RCE 14091		
	IT 10124	069-15	5	Lead Plug Tagged RCE3165 & RCE 2780		
	CR 0122	069-15	4	Lead Plug Tagged SBCO Rd Com Mon		
	CR 0123	069-12	4	Lead Plug Tagged SBCO Rd Com Mon		
	CR 0124	069-12	4	Lead Plug Tagged SBCO Rd Com Mon		
	CR 0126	069-32	4	Lead Plug Tagged SBCO Rd Com Mon		
	CR 1865	069-32	3	Nail & Tag LS 7704		
	CR 1865	069-32	2	Nail & Tag Marked SBCO Surveyor		
	CR 2835	069-32	3	Nail & Tag LS 7704		
	CR 2835	069-32	3	Nail & Tag Marked SBCO Surveyor		
	CR 2842	069-51	2	Nail & Tag Marked SBCO Surveyor		



Street	Recorded Map	APN Map	Total Monuments	Monument Description
Hollister Ave	5 PM 25	079-21	1	1⁄2" Iron Pipe Tagged RE 3162
	3 PM 96	079-21	4	PK & Tin
Los Carneros Rd	124 TM 8	073-15	2	1⁄₂" Iron Pipe Tagged LS 3873 (or)
				Lead Plug Tagged LS 3873 in Concrete
	86 RS 54	073-15	5	PK Nail
	58 TM 28	073-15	4	2" Galvanized Pipe Tagged 2786
Calle Real				
(Los Carneros Rd	82 RS 98	077-16	1	1⁄2" Iron Pipe w/ Spike Tagged RCE 7704
to Valdez Ave)				
S Fairview Ave	2 PM 98	073-08	1	1⁄₂" Iron Pipe Tagged RCE 7704
	140 RS 95	073-08	1	PK Nail
	140 RS 66	073-08	1	Nail & Tag LS 3804
	60 RS 59	073-08	1	1⁄2" Iron Pipe Tagged RCE 7704
Cambridge Dr	IT 10111	069-12	3	Lead Plug Tagged RCE3165 or RCE 2786
Calle Real				
(Kellogg Ave to	114 RS 26	069-16	2	Nail & Tag
City Limits)				
Total			26	

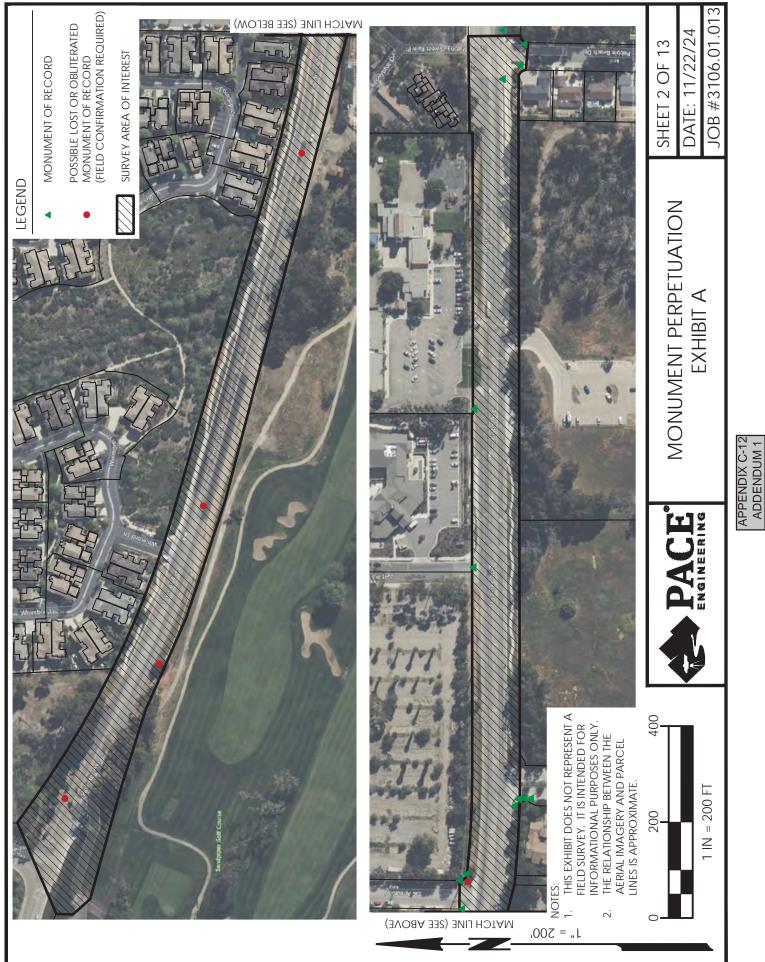
Table 2 – Possible Obliterated or Lost Monuments of Record



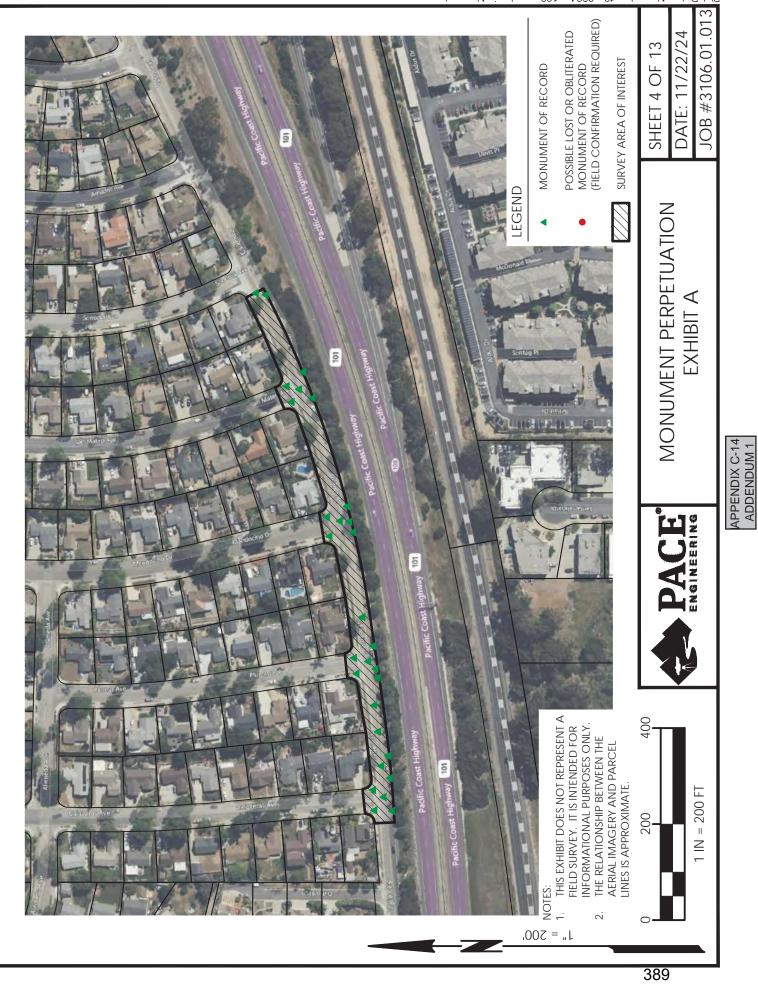
EXHIBITS

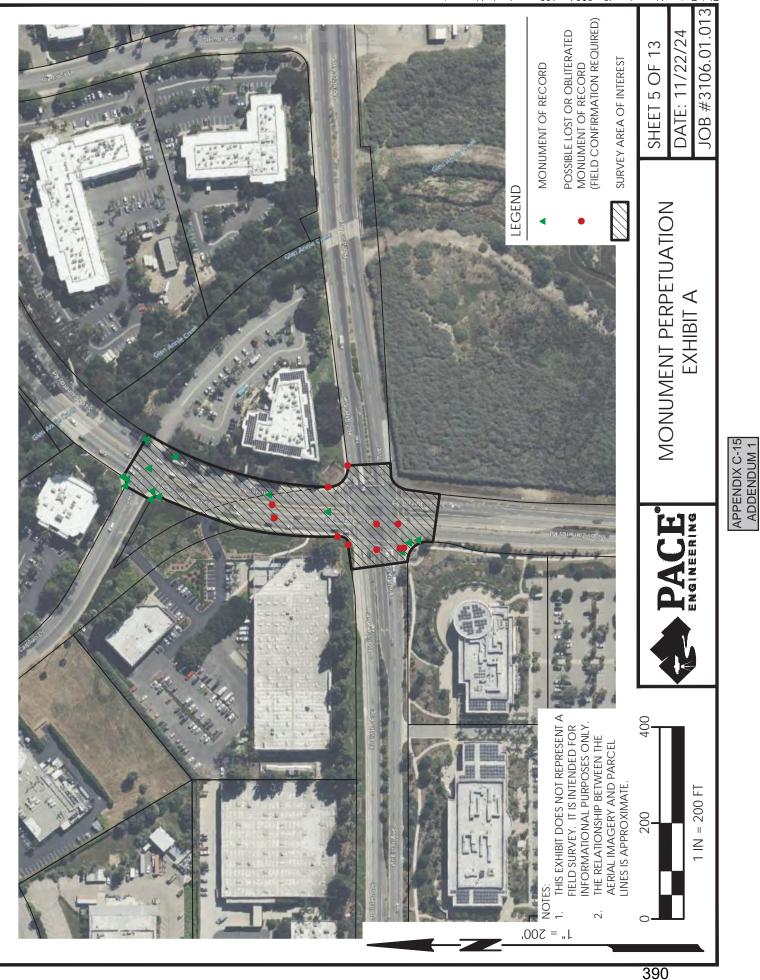




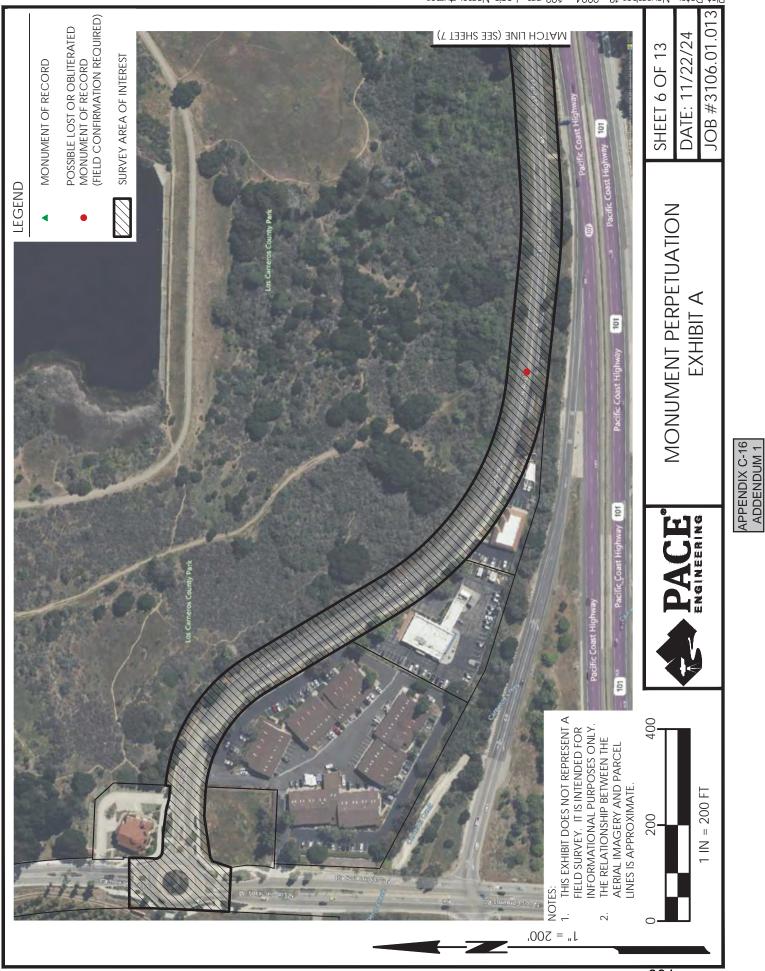




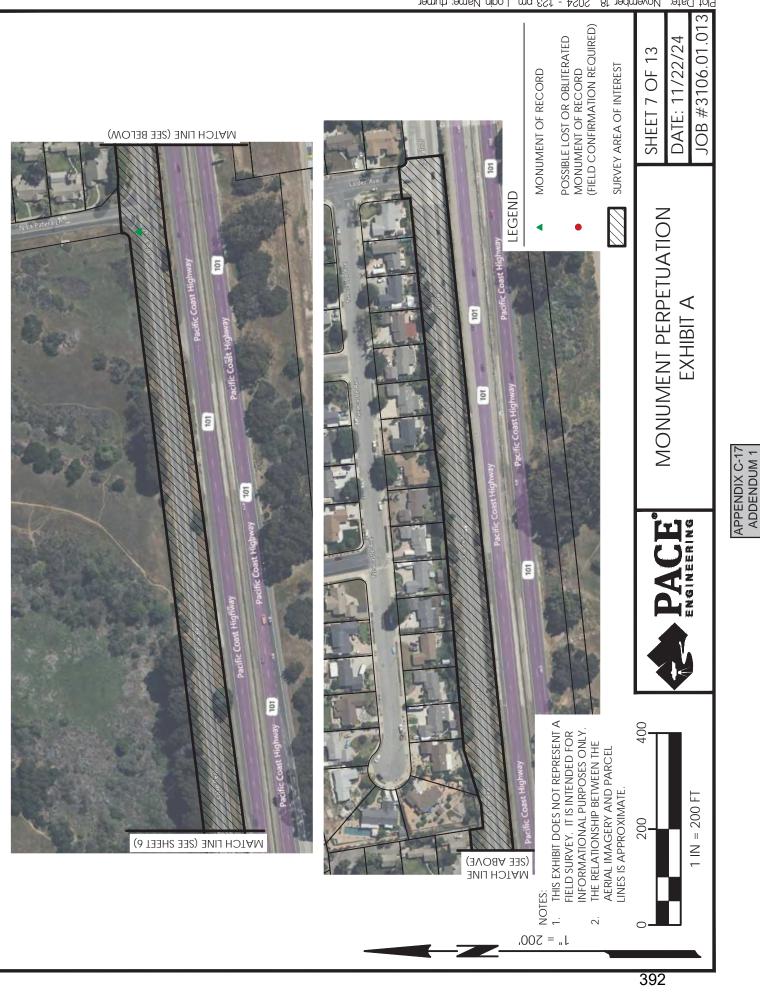




Plot Date: November 18, 2024 - 1:23 pm Login Name: rturner



391

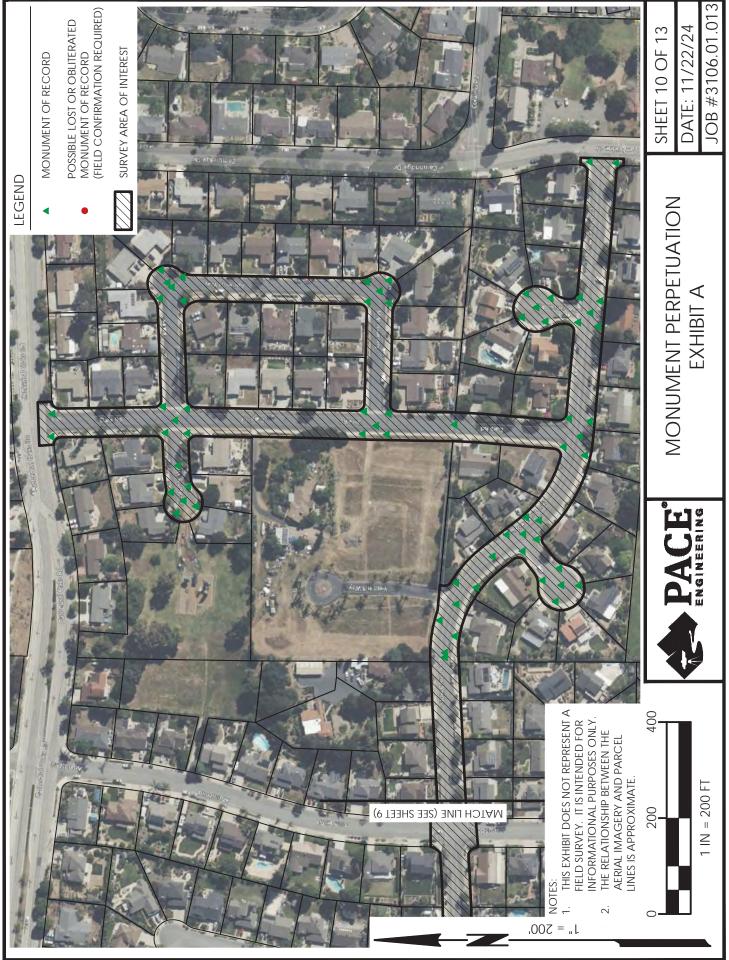


Plot Date: November 18, 2024 - 1:23 pm Login Name: rturner File Name: M:/Land Projects/3106.01.013.dwg, Layout: Sheet7









Plot Date: November 18, 2024 - 1:24 pm Login Name: rturner File Name: M:/Land Projects/3106.01 PEI Monument Perpetuation/02 Projects/3106.01.013.dwg, Layout: Sheet10

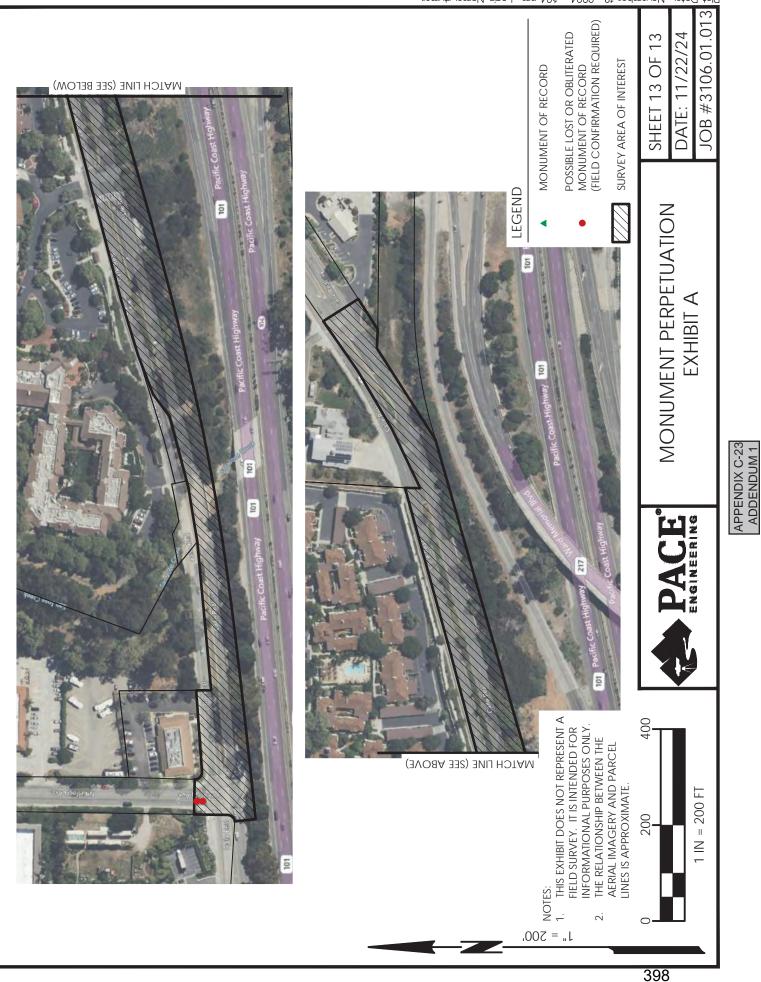
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Plot Date: November 18, 2024 - 1:24 pm. Login Name: rturner

File Name: M:/Land Projects/3106.01 Perperuation/02 Projects/3106.01.013.dwg, Layout: Sheet11





Plot Date: November 18, 2024 - 1:24 pm Login Name: rtumer File Name: M:/Land Projects/3106.01 PEI Monument Perpetuation/02 Projects/3106.01.013.dwg, Layout: Sheet13

APPENDIX A

California Business and Professional Code (Section 8771)



8771. Setting of monuments in general; monument perpetuation

(a) Monuments set shall be sufficient in number and durability and efficiently placed so as not to be readily disturbed, to ensure, together with monuments already existing, the perpetuation or facile reestablishment of any point or line of the survey.

(b) When monuments exist that control the location of subdivisions, tracts, boundaries, roads, streets, or highways, or provide horizontal or vertical survey control, the monuments shall be located and referenced by or under the direction of a licensed land surveyor or licensed civil engineer legally authorized to practice land surveying prior to the time when any streets, highways, other rights-of-way, or easements are improved, constructed, reconstructed, maintained, resurfaced, or relocated, and a corner record or record of survey of the references shall be filed with the county surveyor.

(c) A permanent monument shall be reset in the surface of the new construction or a witness monument or monuments set to perpetuate the location if any monument could be destroyed, damaged, covered, disturbed, or otherwise obliterated, and a corner record or record of survey shall be filed with the county surveyor prior to the recording of a certificate of completion for the project. Sufficient controlling monuments shall be retained or replaced in their original positions to enable property, right-of-way and easement lines, property corners, and subdivision and tract boundaries to be reestablished without devious surveys necessarily originating on monuments differing from those that currently control the area.

(d) The governmental agency performing or permitting construction or maintenance work is responsible for ensuring that either the governmental agency or landowner performing the construction or maintenance work provides for monument perpetuation required by this section.

(e) It shall be the duty of every licensed land surveyor or licensed civil engineer legally authorized to practice land surveying to assist the governmental agency in matters of maps, field notes, and other pertinent records. Monuments set to mark the limiting lines of highways, roads, streets or right-of-way or easement lines shall not be deemed adequate for this purpose unless specifically noted on the corner record or record of survey of the improvement works with direct ties in bearing or azimuth and distance between these and other monuments of record.

(f) The decision to file either a corner record or a record of survey as required by subdivision (b) or (c) shall be at the election of the licensed land surveyor or licensed civil engineer legally authorized to practice land surveying submitting the document.

8771.5. Record of survey – California coordinates

When coordinates in the California Coordinate System are shown for points on a record of survey map the map may not be recorded unless it also shows, or is accompanied by a map showing, the control scheme through which the coordinates were determined from points of known coordinates.

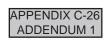
8772. Marking of monuments

Any monument set by a licensed land surveyor or registered civil engineer to mark or reference a point on a property or land line shall be permanently and visibly marked or tagged with the certificate number of the surveyor or civil engineer setting it, each number to be preceded by the letters "L.S." or "R.C.E.," respectively, as the case may be or, if the monument is set by a public agency, it shall be marked with the name of the agency and the political subdivision it serves.



APPENDIX B

Corner Records and Intersection Ties



CORNER	RECORD
CONTRACT	The O O THE

Document Number

110

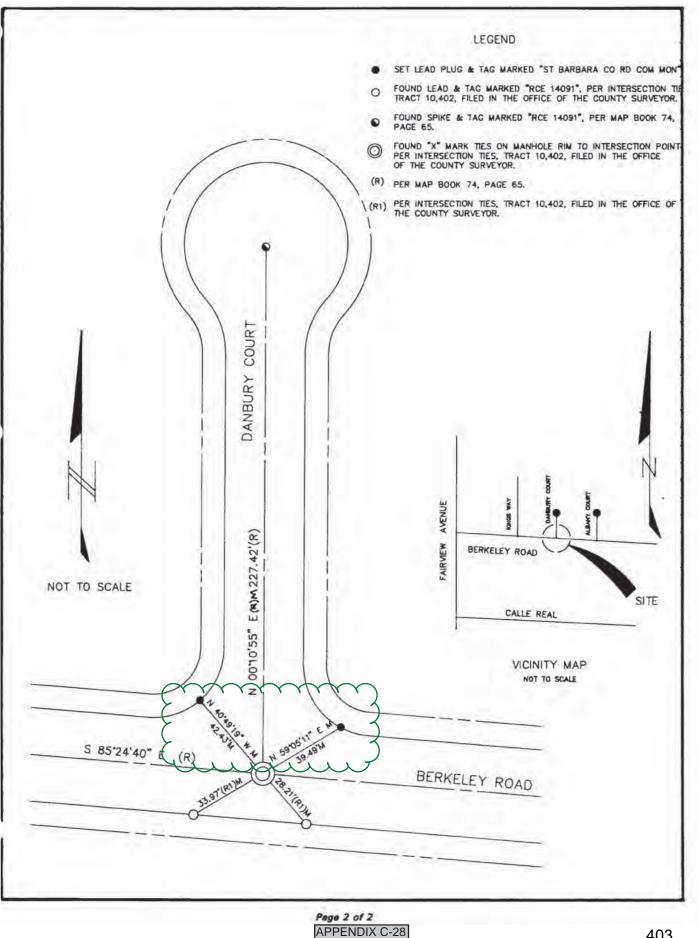
City of ____

County of SANTA BARBARA

, California

Brief Legal Description TRACT 10,402 PBR MAP BOOK 74, PAGE 65, APN 69-51

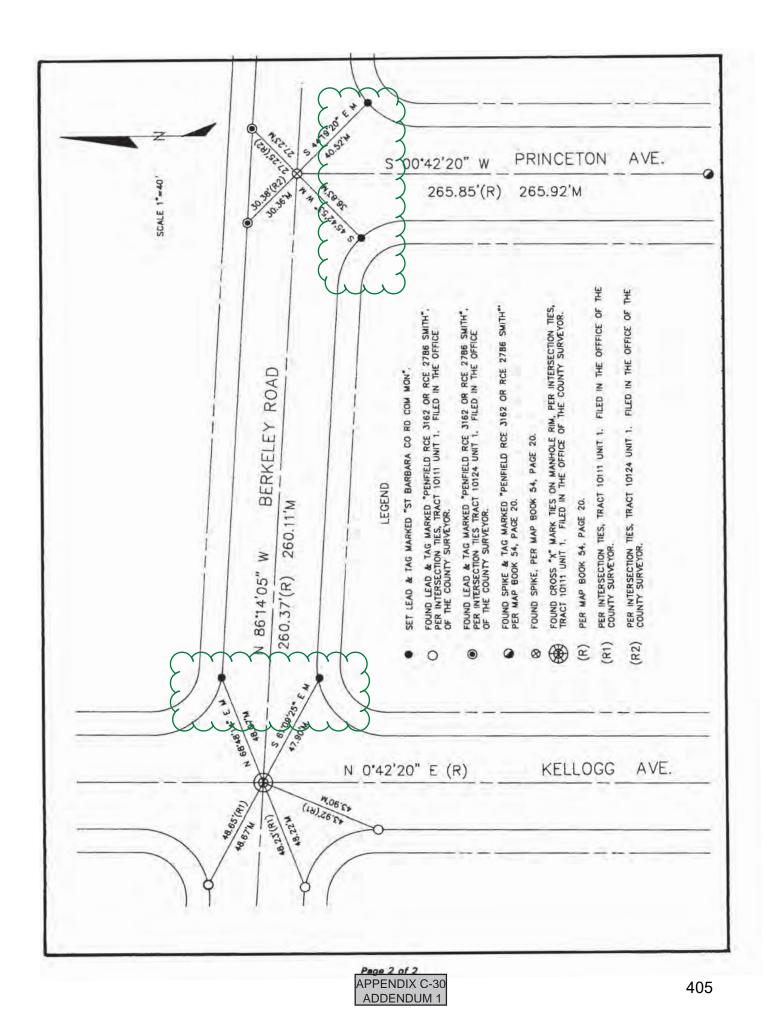
1	CORNER TYPE		COORDINATES (Optional)	
		ontrol	N	
1-		operty 🗌 ther 🔀	Zone Da	tum
		1990	Elev 02	
Corner — Left as fo	und 🗆 Found and tagged 🗆 Es	stablished 🗆	Reestablished 🛛 Rebui	ilt 🗖
dentification and type	of corner found: Evidence used to	identify or pro	cedure used to establish	or reestablish
he corner: Found	PRIGINAL INTERSECTION MONUM	ENT TIES A	LONG THE SOUTH CLIEB	OF BERKE
	GTION TIES TRACT 10,402 . FILED			
FOUND SPIKE & TAG	AT RADIUS POINT OF DANBURY C	WRT CUL-DE-	SAC, PER MAP BOOK 74, P	AGE 65.
SET STREET INTE	RESECTION POINT PRIOR TO CON	STRUCTION		
A description of the ph	ysical condition of the monument as f	ound and as set	or reset: ORIGINAL LE	AD ¢
TAG MONUMENT	TIES AT CURB RETURNS WI	RE DESTRO	YED PURING CONST	RUCTION
OF WHEELCHAU	RAMPS.			
SET LEAD	TAG MONUMENTTIES AT	NEW LOCAT	ION ON CURB RETU	ens.
			N 1.	<u></u>
	SURVEYOR'S STATEMENT			8
This Corner Record wa	as prepared by me or under my dire	ction in conform	nance with	
	t on OCTOBER 24 1		3	131/94
)
Signed Colmund	R. Villa L.S. or R.C.E. Nu	mber <u>6232</u> EXP. 3/3	1/94	C
	COUNTY SURVEYOR'S STATEMEN	0.020		
		19 90 and	na sa	
This Corner Record wa		19 <u>50</u> and	d examined	
and filed	<u>v 25 1992</u>	1.	C	
Signed	laisn Title	Cran 1	June tra	
/ .				
County Surveyor's Co	mment			
				_
PW-3 (3/89)	Page 1 o APPENDIX			400
	ADDEND			402



CORNER RECORD

	Document Number	122
ity of	County of Santa	
Brief Legal Description TRACT 10,124 UNIT		
CORNE	□ Property □ □ Other ⊠	COORDINATES (Optional) N E Zone Datum Elev
Corner — Left as found 🗆 Found and tagg	ed 🗆 Established 🗐 Ree	established 🛛 Rebuilt 🗆
BERKELEY RD AND KELLOGG AVE., PER SET INTERSECTION POINT AT BERKELEY PRIOR TO RECONSTRUCTION OF CURI A description of the physical condition of the mon THG UNIVERST TIES AT CURB AND CU CONSTRUCTION OF NEW WHEELS SET INTERSECTION UDNUMENTTIES	RP AND KELLOSS AVE. BS - nument as found and as set or UNB RETURNS WERE DE CHAIR RAMPS -	reset: ORIGINAL LEAD É
SURVEYOR'S STAT	ler my direction in conforman	ce with
	r R.C.E. Number 6232	
he Land Surveyors' Act on October 29 Signed Colourell. Villa L.S. or COUNTY SURVEYOR'S	r R.C.E. Number <u>6232</u> EKP: 3/31	174 11. 8030 M

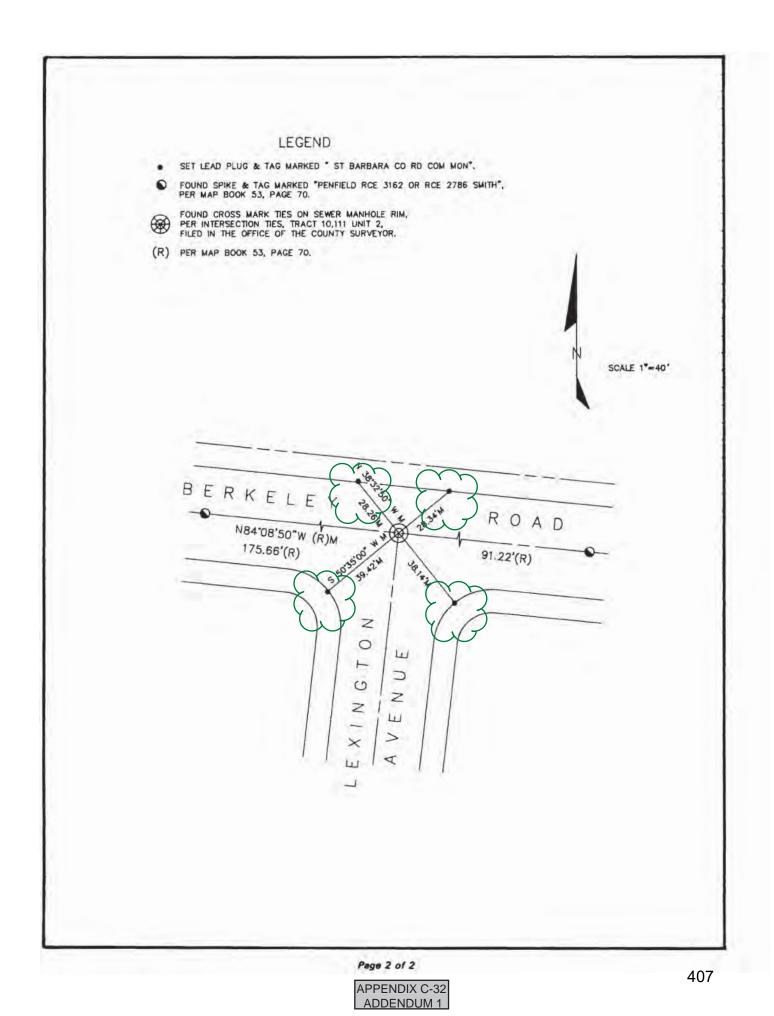
Page 1 of 2 APPENDIX C-29 ADDENDUM 1



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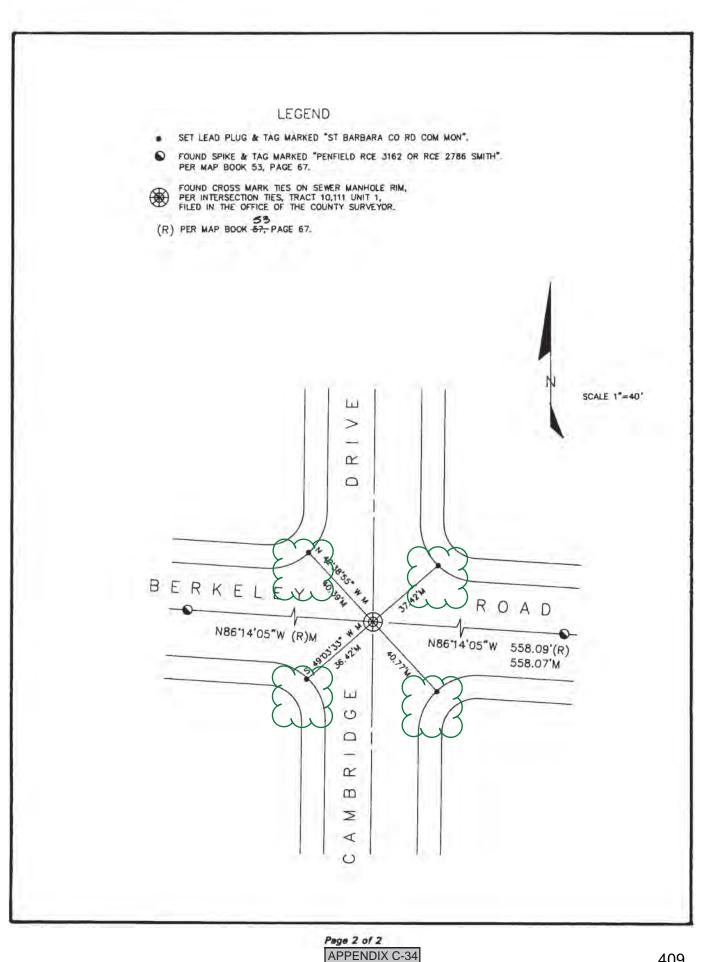
City of	Document Numb	
	County of	BARGARA , California
Brief Legal Description TRACT 10,111 UNIT 2,	PER MAP BOOK 53,	PAGE 70. APN 69-12
CORNER T	YPE	COORDINATES (Optional)
Government Corner	Control Property Other Cother C	N E Zone Datum Elev.
Corner — Left as found Found and tagged		Reestablished 🕱 Rebuilt 🗆
he corner: FOUND LEAD & TAG INTERSECTION THE OFFICE OF THE DOUNTY SURVEYOR SET INTERSECTION POINT FROM TIES REDR TO RECONSTRUCTION OF SUR	AT BERKELEY	RD & LEXINGTON AVE
A description of the physical condition of the monume TAG MONUMENT TIES AT CURB AND C CONSTRUCTION OF NEW WHEEL CHA SET INTERSECTION MONUMENTTIES	URB RETURNS WA	ERE DESTROYED DURING
CURB.		
CURB.	ENT.	12 State
SURVEYOR'S STATEM This Corner Record was prepared by me or under m the Land Surveyors' Act on October 29	ny direction in conform	E.p. <u>3/31/94</u>
	ny direction in conform 19 <u>90</u> . E. Number <u>6232</u> 	Em. <u>3/31/94</u>

Page 1 of 2 APPENDIX C-31 ADDENDUM 1



	Document Numb	er 124	
City of	_ County of	A BARSARA	California
Brief Legal Description TRACT 10,111 UNITI, P	ER MAP BOOK 53, P.	AGE 67 . APN 69-12	L
CORNER T	YPE	COORDINATE: (Optional)	s
Government Corner	Control 🗌 Property 🗍 Other 🕱	N E Datum	
Date of Survey		Elev.	
Corner — Left as found 🗆 Found and tagged [🗌 Established 🗌 F	Reestablished 🛛 Rebuilt 🗆	6
Identification and type of corner found: Evidence u	sed to identify or proc	edure used to establish or re	establis
the corner: FOUND LEAD & TAG INTERSECTION			
ON SEWER MANHOLE RIM, PER INTERSECTIO			
THE OFFICE OF THE COUNTY SURVEYOR		N. W. WAR D. P. Y.	1.1.
SET INTERSECTION POINT FROMTIES A		CAMBRIDGE DR. PRIC	R
TO RECONSTRUCTION OF CURB RETURN			1.0
A description of the physical condition of the monume	ent as found and as set o	or reset: ORIGINAL LEAD	¢
TAG MONUMENT TIES AT QUEB RETURNS			
OF NEW WHEEL CHAIR RAMPS			
SET INTERSECTION HOULMENT TIE	S AT NEW LOCAT	TON ON CURB RETUR	NS.
	- 10.0 24	1	
		Reg and	
SURVEYOR'S STATEM	ENT		
This Corner Record was prepared by me or under m	ny direction in conform	ance with	
	19 90	3/3	1/94
		14	1
Signed Colmund & Villa L.S. or R.C.	E. Number <u>6232</u> EXP. 3/	5//94	
COUNTY SURVEYOR'S STA	TEMENT	No The	
This Corner Record was receivedOCTOBER	15 19 90 and	examined	
and filed Acodematic 15 19 5%,		(= 14c, 10 ★ 16c, 10	ala la
Signed Allering	_ Title <u>Can ~ O</u>	STATE OF UNITE OF CA	THE
County Surveyor's Comment			

Page 1 of 2
APPENDIX C-33
APPENDIX C-33 ADDENDUM 1



CORNER RECORD

Document Number ____

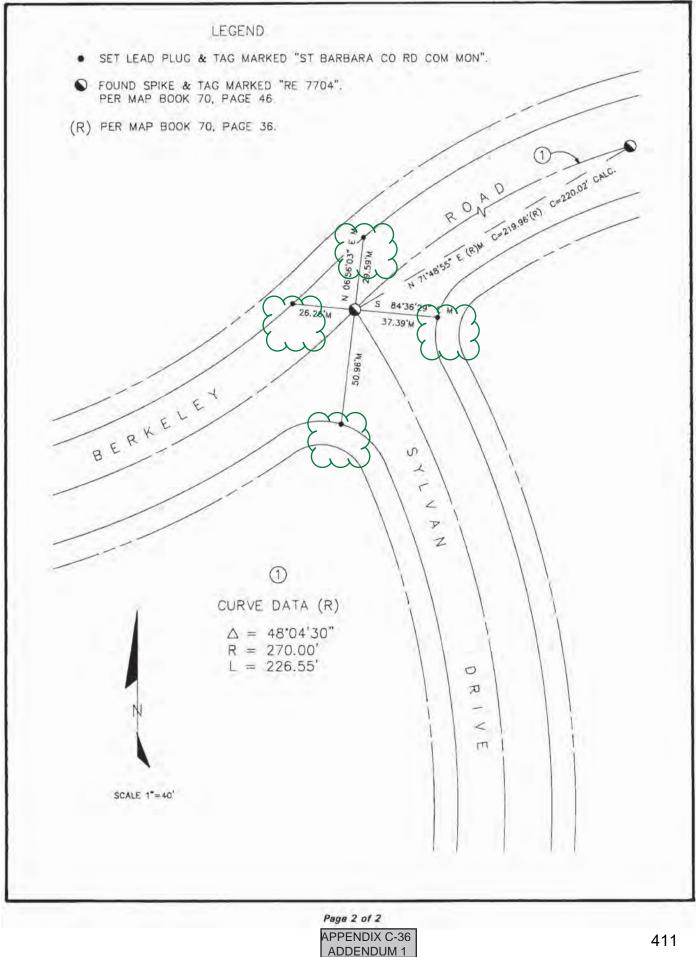
126

City of ____

County of SANTA BARBARA . California

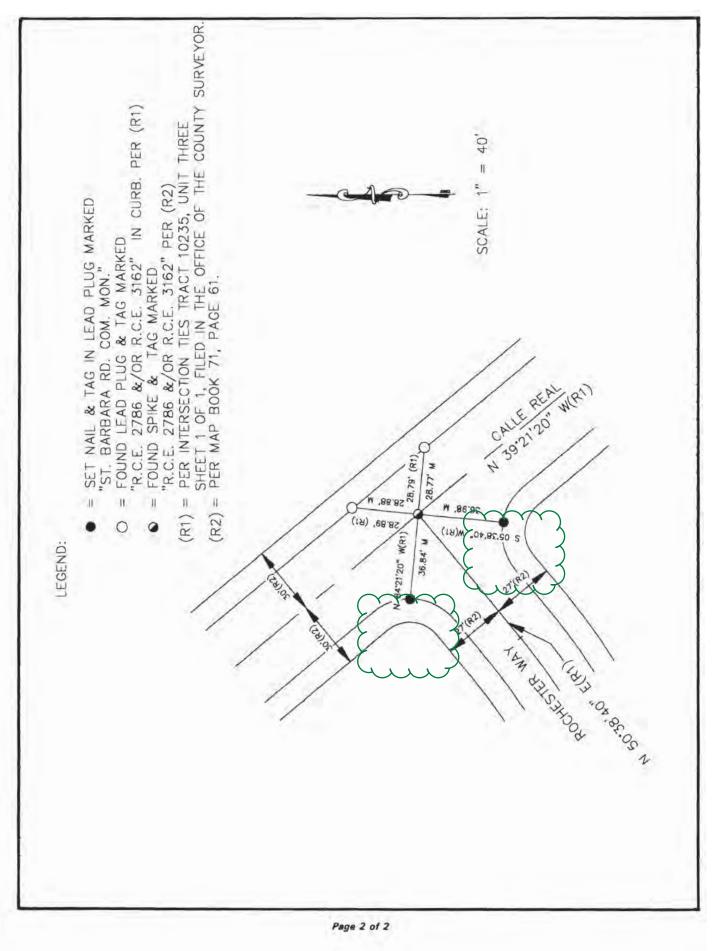
Brief Legal Description TRACT 10,218 UNIT 1, PER MAP BOOK TO, PAGE 46. APN 69-32

	CORNER TY	PE		COORDINATES (Optional)
	Government Corner	Control	N	
1	Meander 🗌 Rancho 🔲	Property C Other	E	Datum
_i_l	Date of Survey August		Elev.	
Corner – Left a	as found \square Found and tagged \square	Established \square	Reestablished I	🗴 Rebuilt 🗆
dentification and	type of corner found: Evidence use	d to identify or p	rocedure used to	establish or reestabli
the corner: Found	D SPIKE TAG AT INTERS	ECTION POINT	OF BERKEL	EY ROAD AND
SYLVAN DRI	VE. ALSO FOUND SPIKE AN	D TAG AT E	BERKELEY R	DAD , = 226'
NORTH EAST O	F SYLVAN DRIVE (TO BE	USED AS A BAC	KSITE).	
A description of the	e physical condition of the monument	t as found and as se	et or reset: ORIG	SIMAL LEAD &
TAG MONUM	ENT TIES AT CURB AND CU	REB RETURNS V	VERE DEST	royed
DURING CON	ISTRUCTION OF NEW CU	RB AND WH	EEL CHAIR I	RAMPS.
SET INTER:	SECTION MONUMENT TH	ES AT NEW 2	OCATION ON	CURB
AND CURBI	RETURNS			
	SURVEYOR'S STATEMEN	T		***
his Corner Record	I was prepared by me or under my	direction in confo	rmance with	E:p. 3/31/9
he Land Surveyors'	Act on December 7	1990	k.	1
and the second second	al R. Villa L.S. or R.C.E		12	Carlos Carros
olgnea Loomun	A Cilla L.S. or R.C.E	Exp. 3	131/94	No
				Ste French
	COUNTY SURVEYOR'S STAT	EMENT		10
his Corner Record	was received DECEMBER	7 19 90 ai	nd examined	1200
and filed Deca	arte 1 19 12.			ST STA
-57	177	1	1	1- 6/30/93
bigned	Ilailit	Title County L	Juli-v Ten	City - Der
1				NE
County Surveyor's	Comment			
PW-3 (3/89)	Pao	et of 2		
	IAPPE	ENDIX C-35		410



		Document Numb	per	262
		County of SANTA	BARBARA	, California
Brief Legal Description	TRACT 10235, UNIT THREE , MA	P BK71 PAGE 61	A.P. NO.79-383	-012
	CORNER TYPE			RDINATES
		Control 🔲 Property 🗍 Other 🔀	N E Zone Elev.	
Corner – Left as	found Found and tagged	Established 🔲 I		Rebuilt 🗆
ne corner: FOUND O ER INTERSECTIO	De of corner found: Evidence used IRIGINAL LEADE TAG INTERSE ON TIES TRACT 10235, UNIT TH SURVEYOR, ALSO FOUND OF	ECTION TIES AT	CURBSÉCURB F OF I, FILED IN	HE OFFICE
CALLE REAL & RO	CHESTER WAY PER MAP BOD TO CONSTRUCTION OF NEW	KTI PAGE GI.	ERIFIED AND M	
	hysical condition of the monument a			LEAD & TAG
	VERE DESTROYED DURING C			
	ON CURB RETURNS.			
			1	D LAND SI
	SURVEYOR'S STATEMENT	0	ELECT	MUND R. ALLA
he Land Surveyors' A	was prepared by me or under my di act on <i>November 10</i>	19 92	N V	Exp. 3/31/92
signed Colmun	IR. Villa_ L.S. or R.C.E. N	Number <u>6232</u> Expir	es 3/31/92	No. 6232
	COUNTY SURVEYOR'S STATEM		15	CONTRACTOR OF
his Corner Record w	as received November	19 5Z and	examined	No. 19222
	ber 17 1992.	i mana	1×	E COUL
or Brand France	as X7 X cara in	e FRANCIS G. Counte Surve Santa Barbar	yor	ATTE OF CALFOR
County Surveyor's C	comment			
and the second				

N



CORNER RECORD

Document Number ____



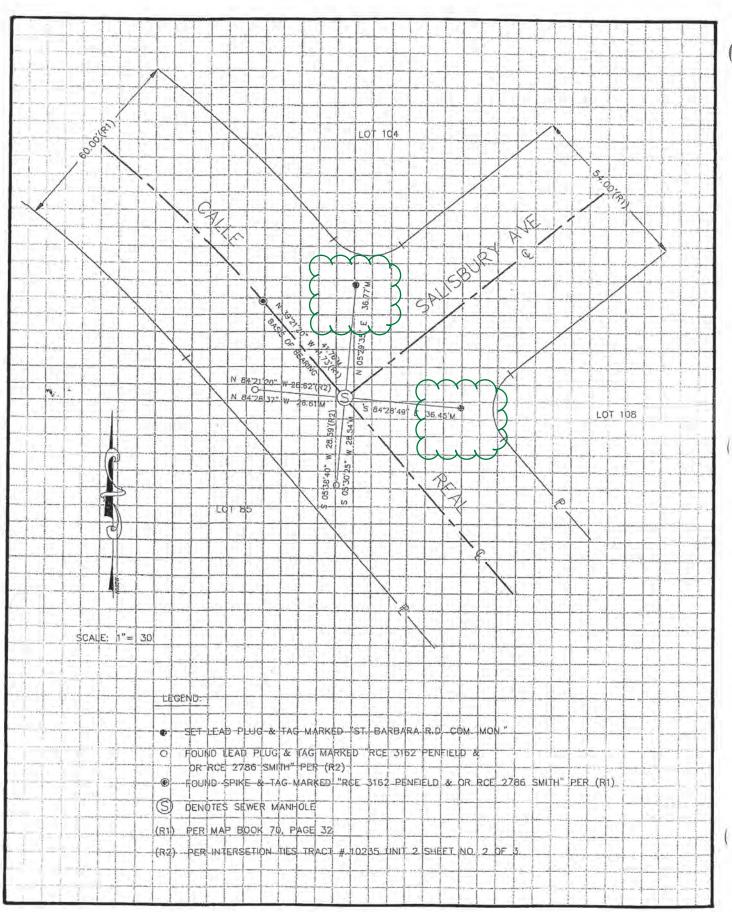
County of SANTA BARBARA, California

Brief Legal Description TRACT 10, 235, PER MAP BOOK 10, PAGE 32 A.P. NO. 79-36

	CORNER TYP	E Control 🗆	COORDINATES (Optional)
	Meander Rancho Date of Survey 7 - 7	Property 🗆 Other 🖾	N E Zone Datum Elev
Corner – Left as found	□ Found and tagged □	Established 🗌 Reest	ablished 🛛 Rebuilt 🗆
the corner: FOUND OR RETURNS PER INTE	IGINAL LEAD & TAG II RSECTION TIES TRACT	NTERSECTION TIES A	
CALLE REAL, PER BK	70, PG32. VERIFIED AND	MARKED INTERSECT	ION DOINT FROM
	STRUCTION OF THE N		1
집중 지역 영상 전 가슴 가슴을 썼다.			et: ORIGINAL LEAD &
	a subscription of the second second second second		LRNS WERE DESTROY
DURING CONSTRU	LETIDN OF NEW W	HEEL CHAIR RA	MPS. SET INTERSECTIO
	SURVEYOR'S STATEMEN	r	USED LAMO SOM
	epared by me or under my o		with
	SEPTEMBER 14		Exp. 3/31/94
Signed Edmuna (R.)	Villa L.S. or R.C.E.	Number <u>6232</u> Expires 3	131/94 No. 6232
co	UNTY SURVEYOR'S STATE	MENT	DEBOFESSION
	eived <u>CEPTEMBER 1</u>	FRANCIS G. SCOT	
and filed September	V Level	County Surveyor Santa Barbara Cour itle Expires	nty CIVIL OF CALIFORNIA
County Surveyor's Comme	nt		
PW-3 (Rev. 11-90)		1 of 2 IDIX C-39	

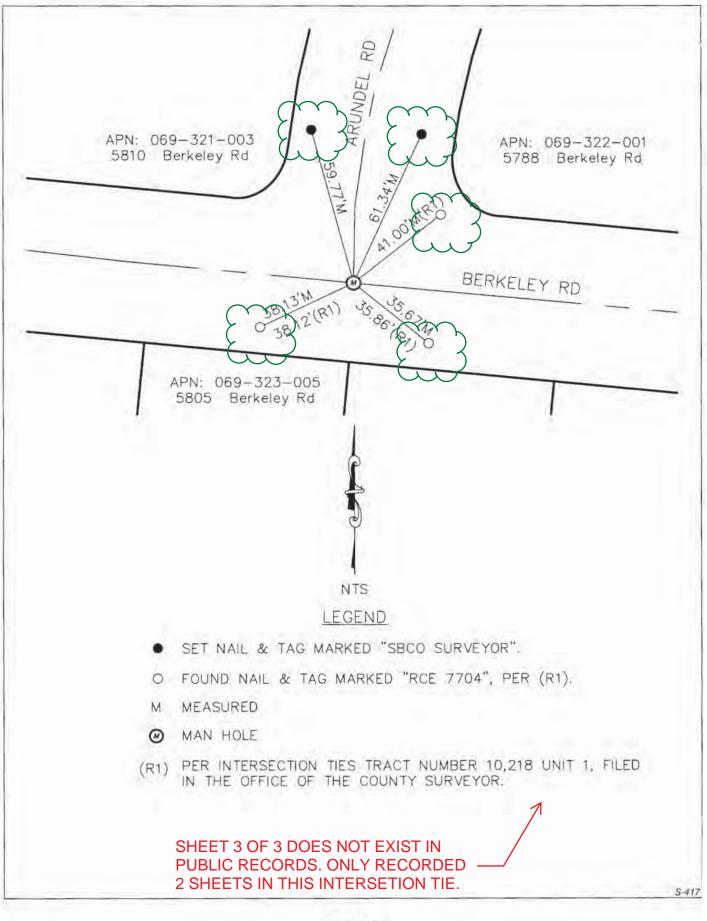
ADDENDUM 1

414



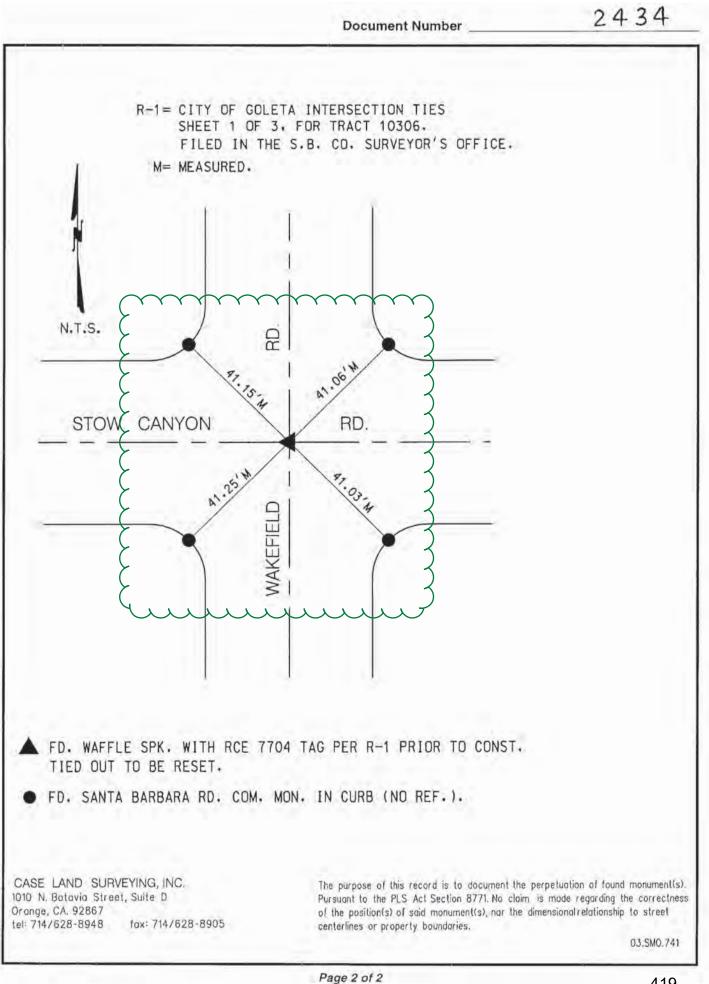


CORNER REC	2.20			t Number		865
City of GO	LETA	77.00 L 17.00				, Californ
Brief Legal Description	TRACT 10,218	UNIT 1, PER	MAP BK	70 PG 47	A.P. NO.	069-322-001
	c	ORNER TYPE			DINATES (O	
	Government	Corner 🗆 C	ontrol 🛛	N		
	Meander	D P	roperty 🗆	Zone	NAD27	NAD83
T	Rancho		ther 🗆	NAD83 Epoch Elev		
	Date of Surve	y <u>10/12</u>	/2002	Vet: Datum Meas. Units:	NGVD29	
Corner – Left as fou	nd 🛛 Found an	d tagged	Established	Reestab	lished	Rebuilt
dentification and type of FOUND THREE, NA						
NEAR THE INTERS	The second second second	The second second second		CONTRACTOR OF THE		Part of the second second
FOUND, SET AND					C	
ACT SECTION 877	CONTRACTOR NO. A.Y.	The second second second				
SET TWO NAIL ANI	D TAGS MARKEL) "SBCO SUF	RVE YOR",	ON TOP OF	CURBS.	
		'S STATEMEN			(A)	ED LAND SURVEY
This Corner Record was			ion in confor	mance with		EXP. 3/31/06
he Land Surveyor's Act				203	- 1/2/	1
Signed Jamun	ER. Villa	P.L.S. or R.C.	E. No. LS 623	32	1	No. 6232
	COUNTY SURVE	YOR'S STATE		ES 3-31-06		CAL
This Corner Record was	s received	5/7		2003	/	D LAND S
and examined and filed		57		20_03	1/2	WEL B. ELLOPUE
Signed Thickal &	0	_ P.L.S. or R.C.	F No. LS 589			EXP. 12/31/04
Title COUNTY SURVE			EXPIR	PES 12-31-04	1/21	No. 5899
		-				OF CALIFOR
County Surveyor's Co	omment:					
Borpels-1297		Pag	ge 1 of 2			416



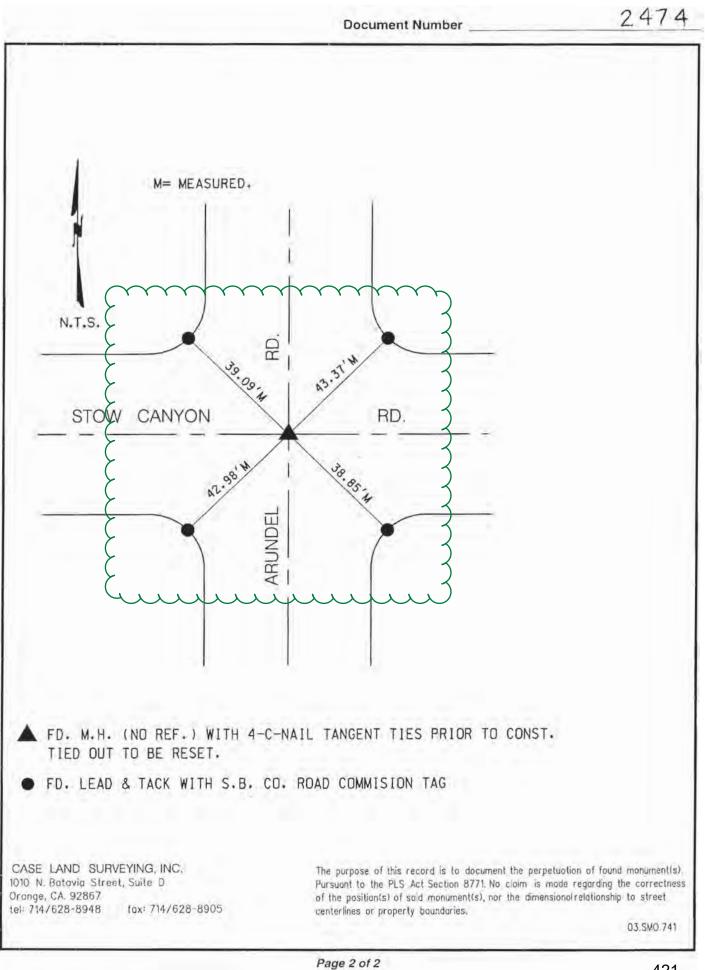


CORNER R	ECORD	Document	Number	2434
City of Gole			Santa Barbara	. California
Brief Logal Descript	ion STOW CANVOI	NRD& Wakefield Ro	.bod	, oumoning
Sher Legal Descript			APN DI	09-451-04
				INATES (Optional)
	COR	INER TYPE		
4	Government Corne	r 📋 Control 🖂	E Zone	
	Meander	Property	NAD83 Epoch	
1	Rancho	🗇 Other 📕	Elev.	NGVD29 NAVD88
	Date of Survey	10/15/2003	Vert. Datum: Meas. Units:	NGVD29 NAVD88 Metric Imperial U.S. Survey foot
Corner Left	as found 📕 Four	nd and tagged 📋 Establis	hed 🗌 Reestablish	ed 📋 Rebuilt 🛄
These ties are	for the purpose	the monument as found an of perpetuating the laim is made as to t	e found monuments	
Thes shown ne	reon to true bou	indary location.		IND
	SURVEYO	R'S STATEMENT		DUAND SURL
This Corner Record		or under my direction in co	nformance with	Star Ash
he Land Surveyor	1 100 10	나이에 가장 나라는 전쟁적 수는 유럽에 유럽 이용을 하는 것 같은		U No. 5411
	s Act on		1 5 5411	
Signed 7		L.S. or R.C.E.	No. L.S. 5411	Exp. 9/30/04
(//	COUNTY SUR	VEYOR'S STATEMENT		
U		1 1		GED LAND SURL
This Corner Record	1 1	2/4/2004		Somet o. ettig
and examined and	filed 8/24/0	-1		LS. 5899 5
Signed Much	PBlue	L.S. or R.C.E.	No. 5899	NEVAL2/2/2/
ritle <u>County</u>	Surveyor			CALE OF CALE OF CALE
County Surveyor's (Comment			
2004		Dere 4 - 40		
2004		Page 1 of 2		
0113-3		APPENDIX C-43 ADDENDUM 1		418



APPENDIX C-44 ADDENDUM 1 419

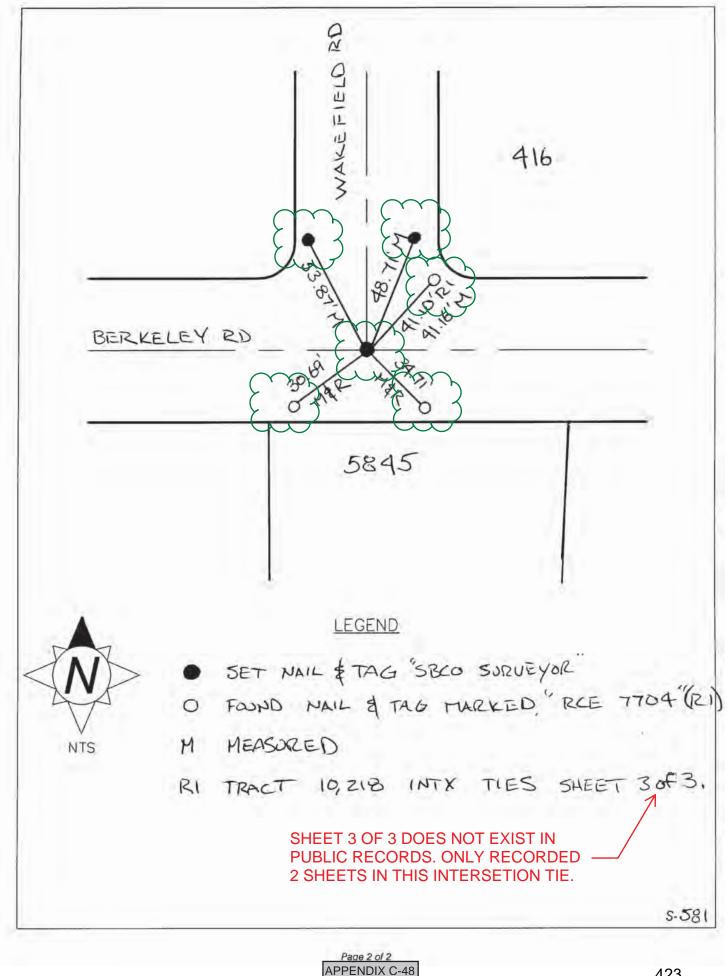
CORNER RECORD	D	ocument Num	ber	2	474
City of Goleta		drop	nta Barbar	٥	_, California
	I Road & Stow	· · · · · · · · · · · · · · · · · · ·			24222
			and the second sec	09-1100.	
	ORNER TYPE			DINATES (Opt	
			N E		
Government Co			Zone	NAD27	NAD83
Rancho	Property Other	Y 🗆	NAD83 Epoch		
	10 (07 (0007		Vert. Datum: Meas. Units:	NGVD29	
Date of Survey.	10/20/2000		Weas. Onits.		Survey foot
Corner Left as found 🔳 F	ound and tagged	Established	Reestablis	hed 🗌 Rel	ouilt 🔲
A description of the physical condition					
the PLS Act Section 8771. No	claim is made a	as to the r		o of the po	oints or
the PLS Act Section 8771. No lines shown hereon to true b SURVE This Corner Record was prepared by the Land Surveyor's Act on Signed COUNTY SU	YOR'S STATEMENT me or under my direct 2004 L.S. or	as to the r n. tion in conform R.C.E. No. <u>L</u> 1ENT	ance with	of the po	AND SUBUR V. CAST 5411 9/30/04 CALIFORNIA
the PLS Act Section 8771. No lines shown hereon to true b SURVE This Corner Record was prepared by i the Land Surveyor's Act on Signed	YOR'S STATEMENT me or under my direct 2/2004 L.S. or URVEYOR'S STATEM 2/4/20 10/18/	as to the r n. tion in conform R.C.E. No. <u>L</u> 1ENT	ance with	of the po	AND SURVER V. CRSP 5411 9/30/04 R UILA 6232 ST
the PLS Act Section 8771. No The shown hereon to true b SURVE This Corner Record was prepared by the the Land Surveyor's Act on 1/06 Signed COUNTY SU This Corner Record was received and examined and filed Signed	YOR'S STATEMENT me or under my direct 5/2004 L.S. or URVEYOR'S STATEM 2 / 4 / 2.0 (1.8 / (1.8 / (1.8 / (1.8 / (1.8 / (1.8 /	tion in conform R.C.E. No. $\frac{L}{C}$	ance with	of the po	AND SURVER V. CRSP 5411 9/30/04 R UILA 6232 ST



APPENDIX C-46 ADDENDUM 1

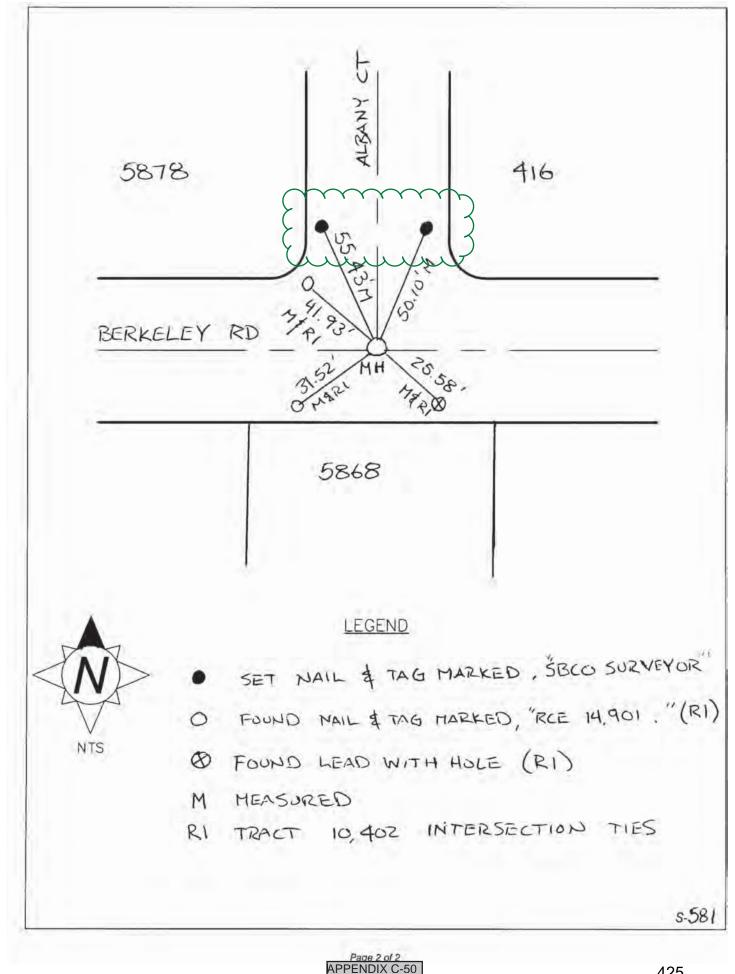
CORNER RECOR			Document	Number		28	335	
City of GOL	ETA		County of	SAN	TA BARE	ARA	100	, California
Brief Legal Description	MAP BOOK 70	PAGE	45	_	A.F	P. NO.	069	321-01
	CORNE	R TYPE			ORDINAT		a contraction of the	
	Government Corner Meander Rancho	D Pro	ontrol 🛛 operty 🗆 her 🗆	E Zone NAD83 Epc	N/	ND27 🗖	NAD83 E	1
	Date of Survey	4/29/	/05	Elev Vet. Datum Meas. Units	NG		NAVD88	
Corner - Left as found	S Found and tagged		Established	🗆 Re	established		Rebuilt	
Identification and type of corr								
SURVEYED IN ACCORE	DANCE WITH THE P	PLS ACT	T SECTION	8771 P	RIOR TO	CONS	STRUCT	70N.
SEE PAGE 2.		-			-			
							_	
A description of the physical of	condition of the monume	nt as found	d and as set	or reset:				_
SEE PAGE 2.								
					_			
						1	LAND	
	SURVEYOR'S STA	TEMENT				1/5	ND R.	242
This Corner Record was pre	pared by me or under r	nu dirocti	on in conform	nanco with		EDILLOS	5,	FIC
			on in comon	nance with		11	- 1/7	7 08
the Land Surveyor's Act on	11/1/ 15	/		20	05	I O E	XP. 3/3	
1 1 1	1 1 11		15 62	32		12	No. 62	32 2
Signed 2 Lannach	PLE PLS	i. or R.C.E	No. LS 62	S 3-31-0	06	1º	OF CA	LIFO
C	OUNTY SURVEYOR'S	STATEN					-	/
		1100			05	/		
This Corner Record was rec	eived	17		20	05	1/5	PEL B.	SUP
and examined and filed	5/17			20	05	1/2/0	NAC	SE T
		1.1.1.1	10.00			FL	1	15 QR
Signed MchalBb	P.L.S	or R.C.E	No. LS 58	99 S 12-31-	00	E	XP. 12/3	31/06
Title COUNTY SURVEYOR	?		EAFING	a 12-31-	00	13	No. 58	99 2
						18	OF CA	TFOT
County Surveyor's Comm	ient:						Un	/
Borpels-1297		Page	1 of 2					
			DIX C-47					422
		ADDE	NDUM 1					

	APPENDIX C-4	47
- 1	ADDENDUM	
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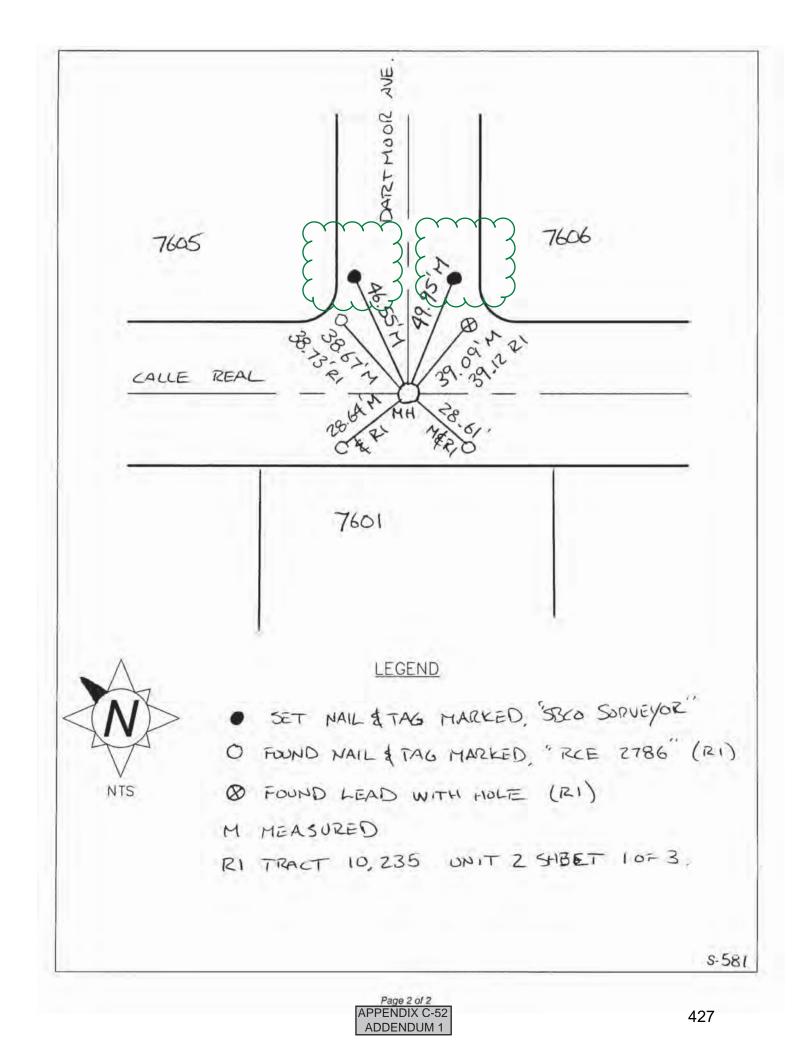
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	RD ETA			Number	the second second	842	
Oity 01	MAP BOOK 74		County of 64	SANTA		069-0	
Brief Legal Description	MAI DOOR 74	THOL	01		A.P. NO.	000 0	
	CORNE	ER TYPE			DINATES (O		
	Government Corner			E			÷
			operty 🗆	Zone NAD83 Epoch _	NAD27 🗆		
1 1	Rancho Date of Survey	1 100	her 🗆 105	Elev Vet. Datum:	NGVD29		_
	Date of Sulvey	11		Meas. Units:		Imperial	
Corner - Left as found	Found and tagged	d 🗆	Established	Reestal	olished	Rebuilt	
dentification and type of corr	ner found: Evidence used	d to identify	or procedure	used to establi	sh or reestabli	ish the cor	ner:
SURVEYED IN ACCORD							
SEE PAGE 2.							
1971 St. 1982 St. 1983		10.00	ALC: NO				
A description of the physical	condition of the monume	ent as found	d and as set o	or reset:			
SEE PAGE 2.							
						D LAN	
	SURVEYOR'S STA	ATEMENT			18	ED LANI	
This Corner Record was pre	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			nance with	CEN	ED LANI	Contraction of the second
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	my directi			TICENO		CHALLANDR
	1.			nance with		EXP. 3/3	13/
the Land Surveyor's Act on	epared by me or under	my directi	on in conform	20			13/
the Land Surveyor's Act on	epared by me or under	my directi	on in conform	20		EXP. 3/3	13/
the Land Surveyor's Act on	epared by me or under	rny directi <u> 17</u> S. or R.C.E	on in conform			EXP. 3/3	13/
he Land Surveyor's Act on Signed <u>Januarol</u>	epared by me or under R. V. Ula F.L.S COUNTY SURVEYOR'S	rny directi <u> 17</u> S. or R.C.E	on in conform	20 <u>0</u> 32 5 3-31-06	o STA	EXP. 3/3	13/
the Land Surveyor's Act on Signed <u>Januarol</u>	epared by me or under	rny directi <u> 17</u> S. or R.C.E	on in conform		o STA	EXP. 3/3	13/
the Land Surveyor's Act on Signed <u>Johnson</u> C This Corner Record was rec	epared by me or under R. V. Ula F.L.S COUNTY SURVEYOR'S	rny directi <u> 17</u> S. or R.C.E	on in conform	<u> </u>		EXP. 3/3	13/
the Land Surveyor's Act on Signed <i>Jummel</i> This Corner Record was rec and examined and filed	epared by me or under R. Villa P.L.S COUNTY SURVEYOR'S Deived 5/17	my direction	on in conform E. No. <u>LS 62.</u> EXPIRE	<u>32</u> 55 3-31-06 20 0	I CENO	EXP. 3/3 No. 62 OF CA	32 TEO STATE YOR
the Land Surveyor's Act on Signed <i>Jummel</i> This Corner Record was rec and examined and filed	epared by me or under R. Villa P.L.S COUNTY SURVEYOR'S Deived 5/17	my direction	on in conform E. No. <u>LS 62.</u> E. No. <u>LS 588</u>	20 <u>0</u> 32 5 3-31-06 20 <u>0</u> 20 <u>0</u> 99	I CENO	EXP. 3/3	32 TEO STATE YOR
he Land Surveyor's Act on Signed <u>Linumed</u> This Corner Record was rec and examined and filed Signed <u>MichaelBh</u>	epared by me or under R. Villa P.L.S COUNTY SURVEYOR'S Deived 5/17 P.L.S	my direction	on in conform E. No. <u>LS 62.</u> E. No. <u>LS 588</u>	<u>32</u> 55 3-31-06 20 0	I CENO	EXP. 3/3 No. 62 OF CA LANI EXP. 12/2	32 PHILE STATES
he Land Surveyor's Act on Signed <u>Linus (</u> This Corner Record was rec and examined and filed Signed <u>MichaelBh</u>	epared by me or under R. Villa P.L.S COUNTY SURVEYOR'S Deived 5/17 P.L.S	my direction	on in conform E. No. <u>LS 62.</u> E. No. <u>LS 588</u>	20 <u>0</u> 32 5 3-31-06 20 <u>0</u> 20 <u>0</u> 99	I CENO	EXP. 3/3 No. 62 DF CA LANI EXP. 12/2 No. 58	32 THE STATE AND STATE
the Land Surveyor's Act on Signed <u>Junual</u> This Corner Record was rec and examined and filed Signed <u>Milaber</u> Title <u>COUNTY SURVEYO</u>	epared by me or under R. V. Ula P.L.S county SURVEYOR'S peived5 5/17 P.L.S R	my direction	on in conform E. No. <u>LS 62.</u> E. No. <u>LS 588</u>	20 <u>0</u> 32 5 3-31-06 20 <u>0</u> 20 <u>0</u> 99	I CENO	EXP. 3/3 No. 62 OF CA LANI EXP. 12/2	32 THE SULFYOR FILE
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the Land Surveyor's Act on Signed <u>Junual</u> This Corner Record was rec and examined and filed Signed <u>Milaber</u> Title <u>COUNTY SURVEYO</u>	epared by me or under R. V. Ula P.L.S county SURVEYOR'S peived5 5/17 P.L.S R	my direction	on in conform E. No. <u>LS 62.</u> E. No. <u>LS 588</u>	20 <u>0</u> 32 5 3-31-06 20 <u>0</u> 20 <u>0</u> 99	I CENO	EXP. 3/3 No. 62 DF CA LANI EXP. 12/2 No. 58	32 THE SULFYOR FILE
This Corner Record was rec and examined and filed Signed	epared by me or under R. V. Ula P.L.S county SURVEYOR'S peived5 5/17 P.L.S R	my direction	on in conform E. No. <u>LS 62.</u> E. No. <u>LS 588</u>	20 <u>0</u> 32 5 3-31-06 20 <u>0</u> 20 <u>0</u> 99	I CENO	EXP. 3/3 No. 62 DF CA LANI EXP. 12/2 No. 58	32 THE STATE STATE

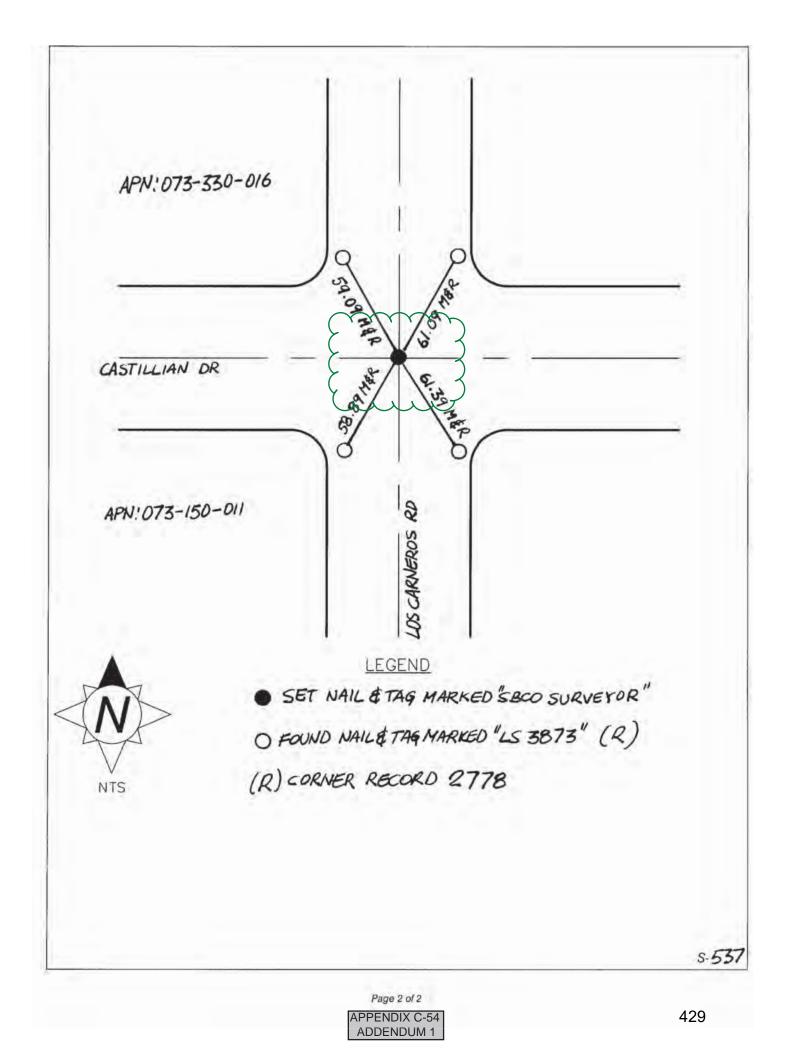


CORNER RECORD				Number			
Oity 01				SANTA		070	, California
Brief Legal Description _	MAP BOOK 70 F	AGE	33		A.P. NO.	079	372-12
	CORNER 1 Government Corner Meander Rancho Date of Survey	Co	operty 🗆 her 🗆	N E Zone	NGVD29	NAD83 E	1
Corner - Left as found	S Found and tagged		Established	121.000	ablished		1000
dentification and type of corr SURVEYED IN ACCORL SEE PAGE 2.		S AC	T SECTION				
	SURVEYOR'S STATE	MENT			1/3	ED LAND	SSE I
This Corner Record was pre the Land Surveyor's Act on Signed <i>Clinua</i>	May 1	17	. No. <u>LS 623</u>	20	11-1	EXP. 3/3 No. 62	32 2
	OUNTY SURVEYOR'S ST	TATEN	MENT		-		
This Corner Record was rec and examined and filed Signed Title <i>COUNTY SURVEYOR</i>	5/17 P.L.S. or	R.C.E	. No. <u>LS 589</u> EXPIRES	20 <u>0</u> 20 <u>0</u> 20 <u>0</u> 29 5 12-31-06	5 ICEN	EXP. 12/3 No. 58	99 T
County Surveyor's Comm	ient:						
Borpels-1297		Page	1 of 2				

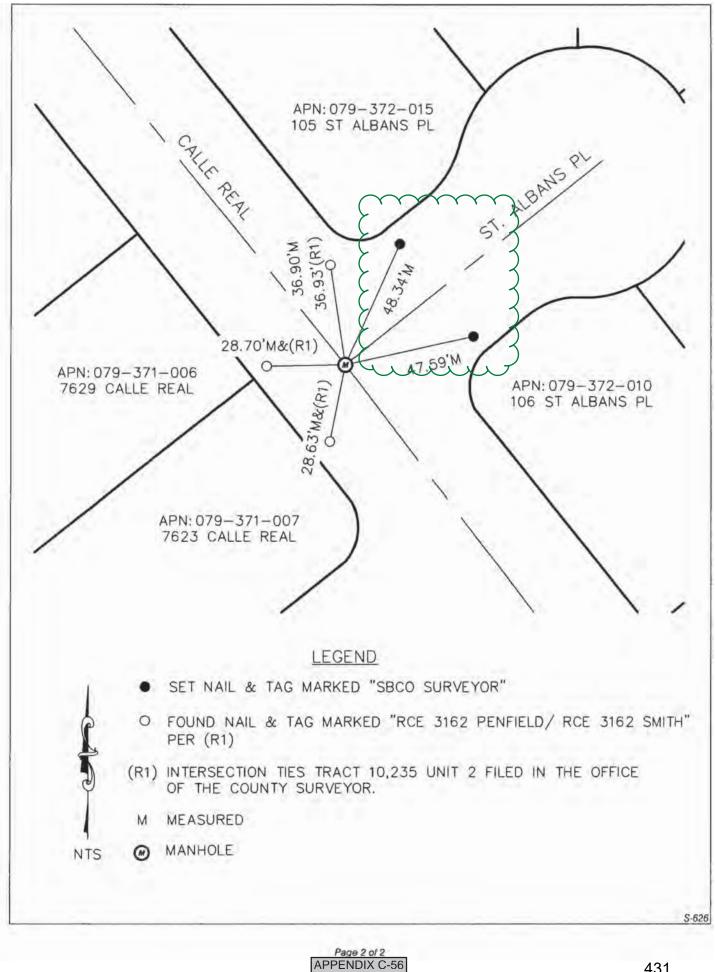
APPENDIX C-51 ADDENDUM 1



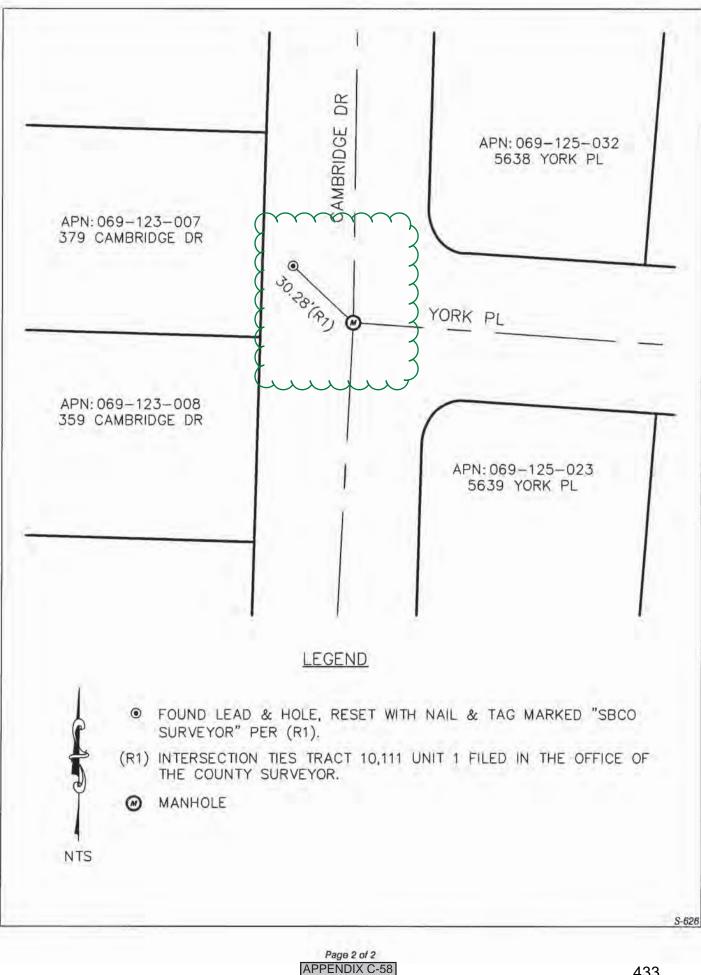
CORNER RECO			Number		860
Oity 01		County of			
Brief Legal Description	MAP BOOK 124 PC	S 8 TRACT 13	0,072	A.P. NO.	073-150-011
	CORNER TY	PE		INATES (O	
	Government Corner		N E		
	Meander	Property	Zone NAD83 Epoch		
	Rancho		Elev. Vet. Datum:		NAVD88
1.55 F + 1.7 F		22	Meas, Units;		
Corner – Left as found	Found and tagged	Established	Reestablis	shed	Rebuilt
	her found: Evidence used to ide				
	DANCE WITH THE PLS	ACT SECTION	8771 PRIOR	TO CON	STRUCTION.
SEE PAGE 2.					
description of the spectrum.	and the second sec				
	condition of the monument as	found and as set o	or reset:		
SEE PAGE 2.					
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	SURVEYOR'S STATEM	ENT		1/5	NO R. LAP
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nis comer necord was pr			narioe with	15	7/71/06 2
he Land Surveyor's Act on	May 11		2005	10.11	EXP. 3/31/06
DI	181/000	10.00	70	13	No. 6232
Signed Gomuna	A. DURG P.L.S. or F	R.C.E. No. LS 62.	5 3-31-06	1	OF CALIFO
	OUNTY SURVEYOR'S STA		3 3-31-00		Unit
	CONTESORVETORS STA	ALEMENT			
his Corner Record was rea	ceived5/1	17	20_05	1	D LAND S
	51.7		05	12	WAEL B. EREPL
and examined and filed	5/17		20	10/3	DE SIO
Signed Michaelsh	- PISorF	R.C.E. No. LS 58	99	1-1	EXP. 12/31/06 7
•		EXPIRE	S 12-31-06	101	
itle COUNTY SURVEYO	R			13	No. 5899
					OF CALIF
County Surveyor's Comm	nent:				
Borpels-1297		Page 1 of 2			
		PENDIX C-53			428
	A	DDENDUM 1			120



CORNER RECOR	RD	Document	Number	3206
City of GOLETA	2	- County of	SANTA BARBA	RA , California
Brief Legal Description TRA	ACT 10,235, UNIT 2, PE	R BK 70, P	PGS 32 & 33 A	.P. NO. 079-372-015
	CORNER TYPE	E		TES (Optional)
		Control 🛛 Property 🗆 Other 🗆	N E Zone NAD83 Epoch Elev	NAD27 NAD83
<u> </u>	Date of Survey05/2	3/2006	Vet Datum: N	GVD29 🔲 NAVD88 🖂 etric 🔲 Imperial 🖾
Corner - Left as found	S Found and tagged	Established	Reestablished	🛛 Rebuilt 🗖
	er found: Evidence used to ident ERLINE INTERSECTION O			
MANHOLE PER INTERS	SECTION TIES TRACT 10,	235 UNIT 2	FILED IN THE	OFFICE OF THE
COUNTY SURVEYOR. F	REFERENCE MONUMENTS	SET AND N	MEASURED TO P	ERPETUATE EXISTING
MONUMENTS PURSUAL	NT TO THE PLS ACT SE	CTION 8771	PRIOR TO CON	STRUCTION.
	SURVEYOR'S STATEME	лт		ED LAND SUS
This Corner Record was pre	pared by me or under my dire		nance with	EDICENSON PROPERTY
the Land Surveyor's Act on	Miley	31	20_06	EXP. 3/31/08
Signed	RIAlle P.L.S. or R.C.	.E. No. LS 62.	32 S 3-31-08	THE OF CALIFO
C	OUNTY SURVEYOR'S STAT	EMENT		
This Corner Record was rec	eived	31	20	ED LAND SUA
and examined and filed	June 1		20_06	LUCAREL CARDINER
Signed michan B	P.L.S. or R.C	C.E. No. LS 58		EXP. 12/31/06
Title COUNTY SURVEYO	8	EXPIRE	5 12-31-06	17 No. 5899
County Surveyor's Comm	ent:			OF CALL!
Borpels-1297	P	age 1 of 2		

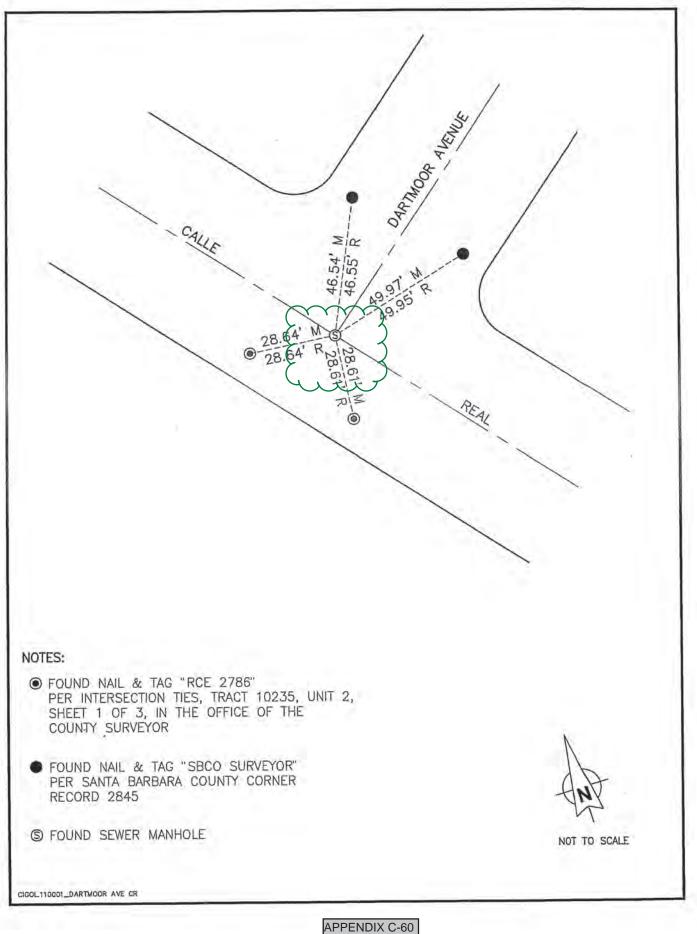


City of GOLETA	0	County of	SANTA E	BARBARA		California
Brief Legal Description TR	ACT 10,111 UNIT 1,				069-12	5-032
	CORNER	TYPE		RDINATES (O	And the second second second second	
	Government Corner	I Control 🛛	N			
	Meander 🗆	Property		NAD27 🗆		
line barren ar en la	Rancho 🗆		Elev.	1		
	Date of Survey	5/19/2006	Vet, Datum: Meas, Units:		NAVD88 🗆 Imperial 🗆	
Corner – Left as found	Sound and tagged	Established	Rees	tablished	Rebuilt [
Identification and type of corn						
CENTERLINE INTERSEC						RENCE
MONUMENT RESET TO		ING MONUMENT	PURSUAN	IT TO THE P	PLS ACT	
SECTION 8771 PRIOR	TO CONSTRUCTION.					
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FOUND ONE LEAD WIT	and a second second second second second	and the second second	ERSECTION	I TIES TRAC	1 10,111	UNIT
RESET WITH NAIL & T	AG MARKED SBCO	SURVETOR .				
	-				-	
	SURVEYOR'S STATE	MENT		1	ED LAND	132
					ED LAND R. L	
This Corner Record was pre	pared by me or under my	direction in conform		11-1		R
the Land Surveyor's Act on	m/a	431	20 _	06 10	EXP. 3/31/	-/-
Signed Idenuur	R. LACOP.L.S.O	r R.C.E. No. LS 62.	32	13	No. 6232	[8]
		EXPIRE	S 3-31-08		OF CALL	/
C	OUNTY SURVEYOR'S S					
This Corner Record was rec	eived	ray SI	20 _	06	ED LAND	633
and examined and filed	June 1	0	20	06	WAEL . C	SE
Signed Michaele	L PISO	r R.C.E. No. LS 58		1-12	EXP. 12/31,	15 OR
Title COUNTY SURVEYOR		EXPIRE	S 12-31-06	1/21	No. 5899	15/
Title				N.	OF CALL	£8°/
County Surveyor's Comm	ent:					-
			_			
Borpels-1297		Page 1 of 2				
	A	PPENDIX C-57			43	2
		ADDENDUM 1			43	



CORNER F	RECORD		V		CR 4044
City of	GOLETA		County of_	SANTA BARE	ARA , Californi
Brief Legal De	escription DARTMOOR AVEN PER MAP BOOK	UE & CA 70, PAGE	LLE REAL INTERS		
		NER TYP			COORDINATES (Optional)
	Government Corr Meonder		Control 🛛 Property 🕅	N	
	Rancho		Other 🛛		Datum
	Date of Survey	SEPTEMBE	<u>R 6, 2011</u>	Elev.	
Corner – Lef	t as found 🖾 Found ond to	igged 🗌	Established 🗌	Reestablished	🗆 Rebuilt 🗆
the corner: <u>SURV</u> SEE SHEET 2.	YEYED IN ACCORDANCE WITH	I THE PLS	S ACT, SECTION	8771 PRIOR T	O CONSTRUCTION.
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A description of SEE SHEET 2.	the physical condition of the	monumen	t as found and c	as set or reset:	
	the physical condition of the SURVEYOR'S STA				5510NAL LAND SEA
SEE SHEET 2.	SURVEYOR'S STA	ATEMENT nder my d		mana with	5510NAL LAND SER
SEE SHEET 2.	SURVEYOR'S STA rd was prepared by me or un r's Act onMAR	ATEMENT nder my d RCH 22	lirection in conform	mance with	Mark E. Reinhardt No. 6392
SEE SHEET 2.	SURVEYOR'S STA rd was prepared by me or un r's Act onMAR	ATEMENT nder my d RCH 22 or R.C.E. 1	lirection in conform 2012 NumberLS63	mance with	Mark E. Reinhardt
SEE SHEET 2.	SURVEYOR'S STA rd was prepared by me or un r's Act on <u>MAR</u> <u>COUNTY SURVEYOR'S</u>	ATEMENT nder my d RCH 22 or R.C.E. 1	lirection in conform 2012 NumberLS63 IENT	mance with	Mark E. Reinhardt No. 6392
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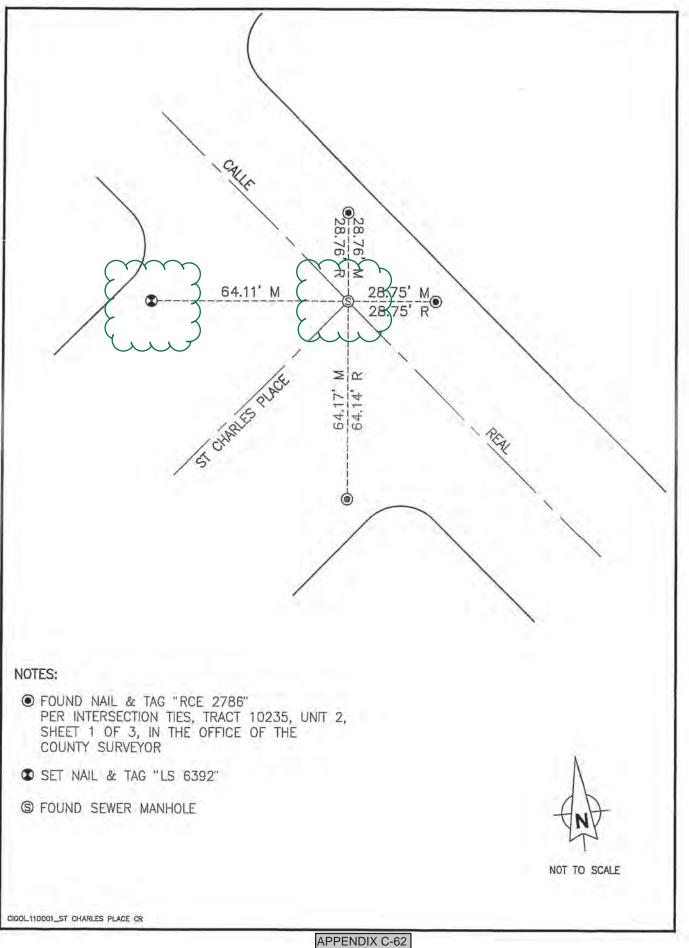
APPENDIX C-59)
ADDENDUM 1	



CR 4045

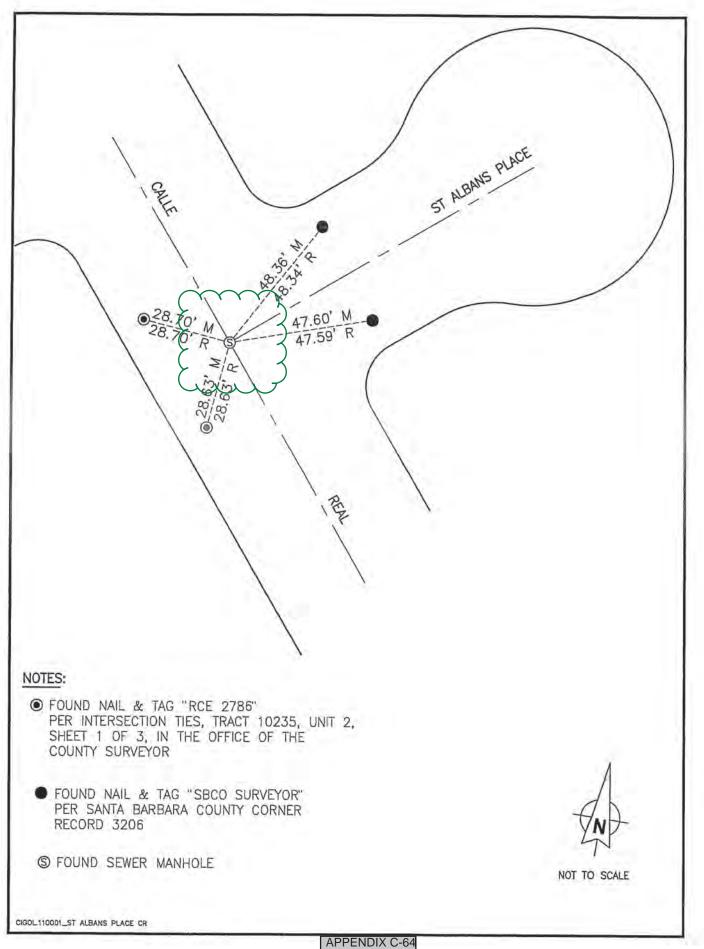
City of	GOLETA	Count	y of SANTA BARBARA	A California
Brief Legal Desc	cription ST CHARLES		INTERSECTION A.P. NO. (
	Government (Meander Roncho	CORNER TYPE Corner Control Con	N. I E. Zone	ORDINATES (Optional)
Corner – Left d	as found 🛛 Found and	I togged 🗌 Establishe	d 🛛 Reestoblished 🗆	
	ED IN ACCORDANCE W		or procedure used to est CTION 8771 PRIOR TO C	
A description of the SEE SHEET 2.	e physical condition of t	he monument os found	and as set or reset:	
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		Page 1 of 2 APPENDIX C-61 ADDENDUM 1		

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ADDENDIX C-62

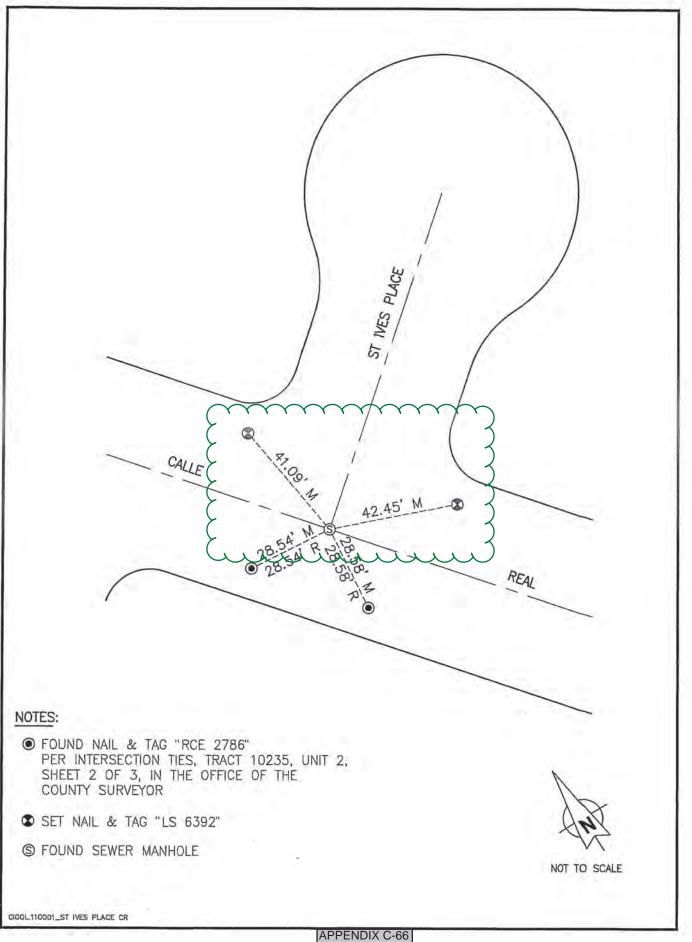
City ofCOLETACOUNTY ofSANTA BARBARAColife Brief Legol Description ST ALBANS PLACE & CALLE REAL INTERSECTION A.P. NO. 079–372–015 PER MAP BOOK 70, PAGE 33 CORNER TYPECOORDINATES (Coptional) Meander CornerControlN Gevernment CornerControlN ReachenDuherZoneDatumEex Date of Survey SEPIEMBER 6, 2011 Efex Corner - Left as found © Found and taggedEstablishedRebuilt Identification and type of corner found: togendEstablishedRebuilt Identification of the physical condition of the monument as found and as set or reset:SEE SHEET 2. A description of the physical condition of the monument as found and as set or reset:SEE SHEET 2. SURVEYORS STATEMENT This Corner Record was prepared by me ar under my direction in conformance with the Land Surveyor's Act onMARCH 22 zo 12 SIGNEDCOUNTY SURVEYORS STATEMENT This Corner Record was receivedAPY/ 6 zo 12 and examined me filed Apy/ 20 12 and examined me filed 20 12 igned 20 12 igned 20 12 igned	CORNER RE	CORD	1		C	R 4046
Brief Legel Description ST ALBANS PLACE & CALLE REAL INTERSECTION A.P. NO. 079–372–015	City of	GOLETA		County of	SANTA BARBA	RA California
Government Corner Control N. COptional Mendder Property & Zone Dotum Banchor Other Zone Dotum Date of Survey SEPTEMBER 6, 2011 Elev. Dotum Dotum Corner - Left as found Øl Found and tagged Established Reestablished Rebuilt dentification and type of corner found: Evidence used to identify or procedure used to establish or reestable to establish or reestable to established Rebuilt description of the physicol condition of the monument as found and as set or reset: SEE SHEET 2. description of the physicol condition of the monument as found and as set or reset: SEE SHEET 2. user SURVEYOR'S STATEMENT Mark E. Reinhardt his Corner Record was prepared by me or under my direction in conformance with the Land Surveyor's Act on MARCH 22 20 12 . Mark E. Reinhardt igned LAND LS. or R.C.E. Number LS 6392 COUNTY SURVEYOR'S STATEMENT No. 6532 Starte and the count of the physicol condition of the count of the count of the count of the physicol condition of the count of th		ription ST ALBANS PLA	ACE & CALLE < 70, PAGE 33	REAL INTERSE		
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Image: Land Surveyor's Act on		SURVEYOR'S ST	TATEMENT		15	TOWN STOR
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his Corner Record was received <u>April 6</u> 20 <u>12</u> and examined nd filed <u>April 6</u> 20 <u>12</u> . igned <u>April 6</u> 20 <u>12</u> . igne					*	No. 6392
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ounty Surveyor's Comment	ain Coman David	Ann			/	ED LAND S
ounty Surveyor's Comment	1			20 <u></u> and	examined	SANDAR VEL PUR
ounty Surveyor's Comment	Ma mea Malan	20			(1)	PISCOT
Page 1 of 2	igned H	unon	Title	COUNTY SURVI	YOR (ST	1 23 03/8 5 *
	ounty Surveyor's Comme	nt			1	OF CALIFORM
			Page 1 of 2	Mil I		
ADDENDUM 1			APPENDIX (C-63		



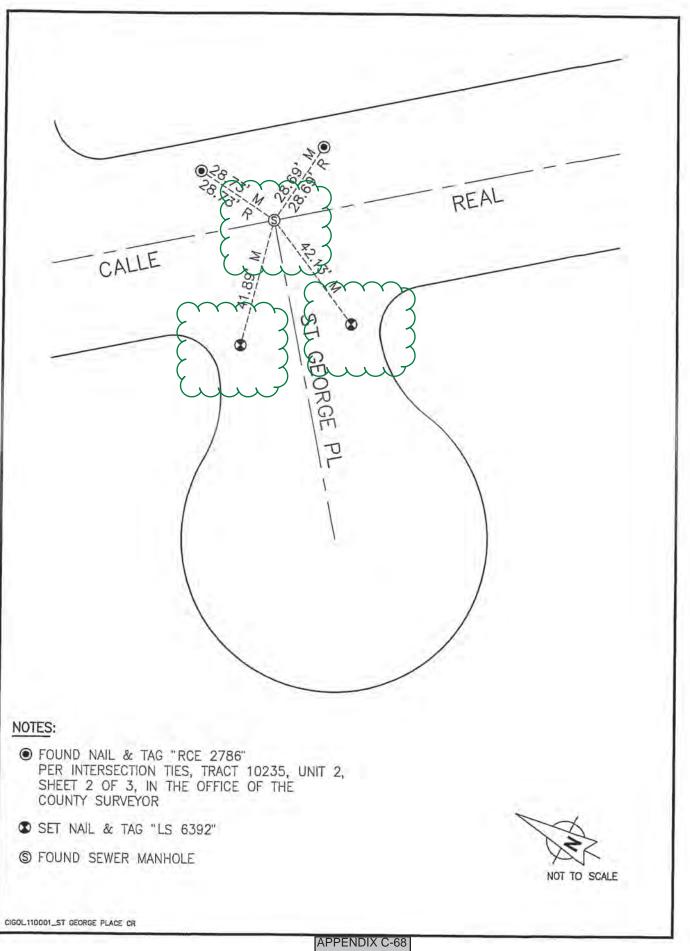
ADDENDUM 1

CR 4047

City of GO	LETA	County of	SANTA BARBARA	California
Brief Legal Descriptio	PER MAP BOOK 70, PAG	REAL INTERSECTIO	A REAL PROPERTY AND A REAL PROPERTY.	9-364-006
	CORNER TYP Government Corner Meander Rancho Date of Survey <u>SEPTEMB</u>	Control 🗆 Property 🕅 Other 🗆	(C N E Zone	RDINATES Optional) Dotum
Corner — Left as four	nd 🕅 Found and tagged 🗆	Estoblished 🛛	Reestablished 🛛	Rebuilt 🗆
the corner: SURVEYED IN	corner found: Evidence used ACCORDANCE WITH THE PL	S ACT, SECTION 8		
A description of the physi SEE SHEET 2.	icol condition of the monume	nt as found and as	set or reset:	
This Corner Record was p the Land Surveyor's Act o Signed	ITT			E. Reinhardt
Ca This Corner Record was re and filed <u>April</u> Signed <u>April</u>	<u>6</u> 20.12.	17	examined	
County Surveyor's Comment				OF CALIFOR
	1399A	1 of 2 NDIX C-65 ENDUM 1		440



	RECORD	- F	r		CR 4048
City of	GOLETA		_ County of	SANTA BAR	BARA , Californi
Brief Legal	Description ST GEC PER M	ORGE PLACE & CA AP BOOK 70, PAG	ALLE REAL INTERS GE 32	SECTION A.P. N	o. 079–363–002
		CORNER TY	PE		COORDINATES (Optional)
	Gavern Meand	nment Carner 🗆 Ier 🗆	Cantra) 🔲 Property 🖾	N	
	Ranch		Other 🛛		Dotum
	Dote	of Survey <u>SEPTEME</u>	BER 6, 2011		
Corner – L	eft as found 🛛 Fou	und and togged 🗌	Established 🗆	Reestoblished	🗆 Rebuilt 🗆
A description of SEE SHEET 2		ian af the monume		as set ar reset	
	SURVE	YOR'S STATEMEN	т		GIONAL LAND
		YOR'S STATEMEN			5
This Corner Rec	SURVE	me or under my	directian in confo	rmance with	Mark E. Reinhardt
	ard wos prepored by		directian in confo	rmance with	SSIL PERE
the Land Survey	ard wos prepored by	me or under my	directian in canfai 20 <u>_12</u>	*	Mark E. Reinhardt No. 6392
the Land Survey	ard wos prepored by	me or under my	directian in confo	*	Mark E. Reinhardt No. 6392
	ard wos prepored by	MARCH 22 L.S. ar R.C.E.	directian in canfai 20 <u>_12</u> . Number <u>LS_6</u>	*	Mark E. Reinhardt
the Land Survey	ard wos prepored by var's Act on	MARCH 22 LS. or R.C.E.	directian in canfai 20_ <u>12</u> NumberLS_6 MENT	\$392	Mark E. Reinhardt No. 6392
the Land Survey	ard wos prepored by var's Act on	MARCH 22 LS. or R.C.E.	directian in canfai 20_ <u>12</u> NumberLS_6 MENT	\$392	Mark E. Reinhardt No. 6392
the Land Survey	ard wos prepored by var's Act on	MARCH 22 LS. or R.C.E.	directian in canfai 20_ <u>12</u> NumberLS_6 MENT	\$392	Mark E. Reinhardt No. 6392
the Land Survey	ard wos prepored by var's Act on	MARCH 22 LS. or R.C.E.	directian in canfai 20_ <u>12</u> NumberLS_6 MENT	\$392	Mark E. Reinhardt No. 6392
the Land Survey	ard wos prepored by	MARCH 22 LS. or R.C.E.	directian in canfai 20_ <u>12</u> NumberLS_6 MENT	\$392	Mark E. Reinhardt No. 6392
the Land Survey	ard wos prepored by var's Act on	MARCH 22 LS. or R.C.E.	directian in canfai 20_ <u>12</u> NumberLS_6 MENT	\$392	Mark E. Reinhardt No. 6392
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the Land Survey Signed	country su country su and was received pril 6	MARCH 22 LS. or R.C.E.	directian in canfai 20_ <u>12</u> NumberLS_6 MENT	\$392	Mark E. Reinhardt No. 6392
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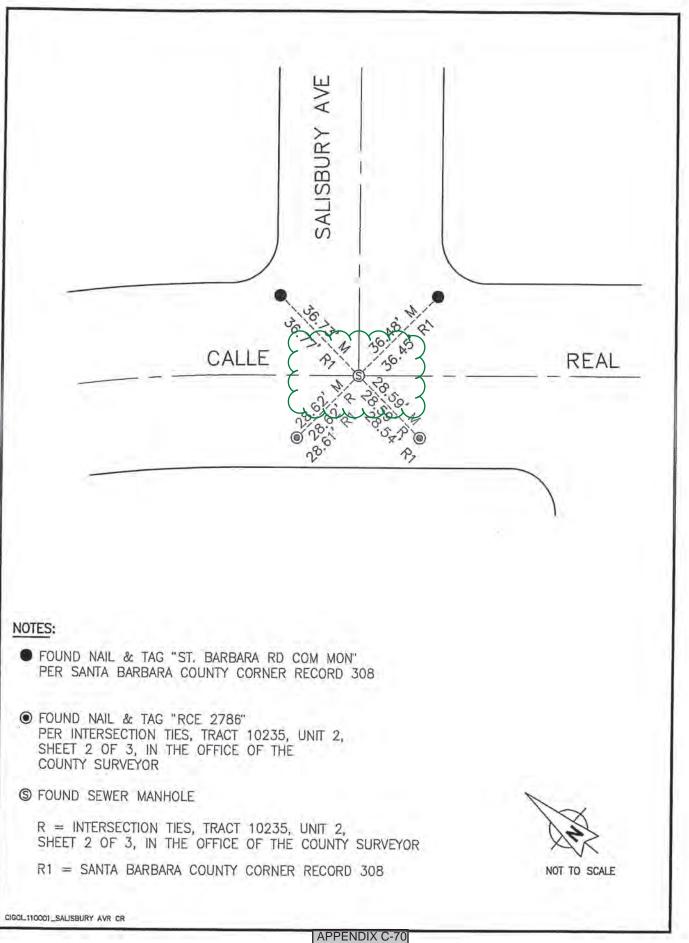


CR 4049

City of	GOLETA	County of SA	NTA BARBARA, Californ
Brief Legal Des		E REAL INTERSECTION	A.P. NO. 079-363-002
	CORNER TY	YPE	COORDINATES (Optional)
	Government Carner 🗌 Meander	Control □ Property ⊠	N E
1	Rancho	Other 🗆 IBER 6, 2011	Zonė Dotum Elev
Corner – Left	as found 🖾 Found and tagged 🗆] Established 🗌 Rees	stablished 🗌 Rebuilt 🗌
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the Land Surveyor's	1/11/		No. 6392
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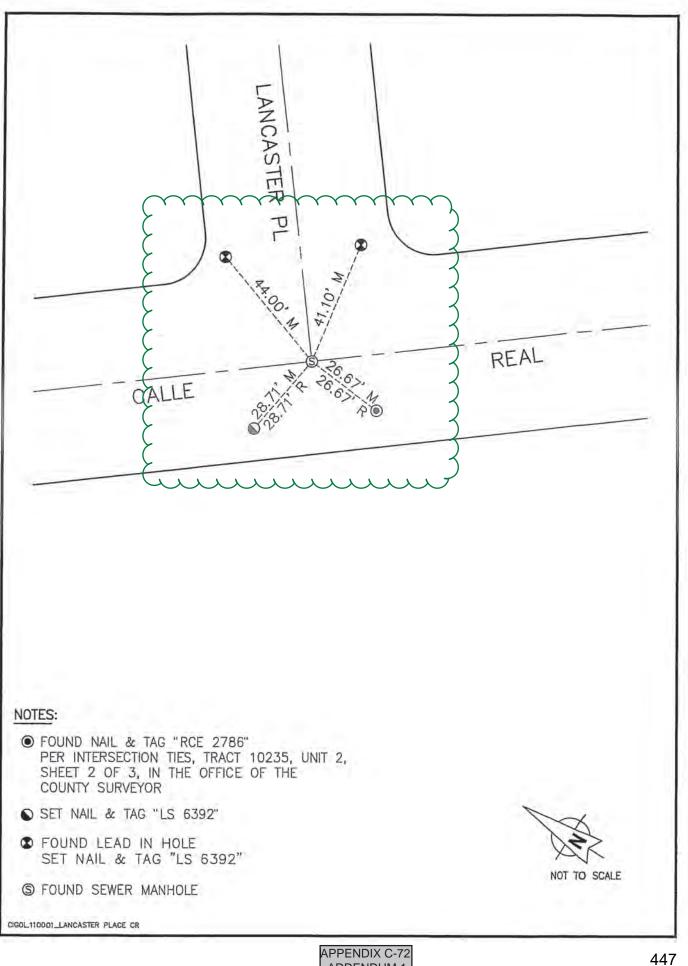
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APPENDIX C-69 ADDENDUM 1

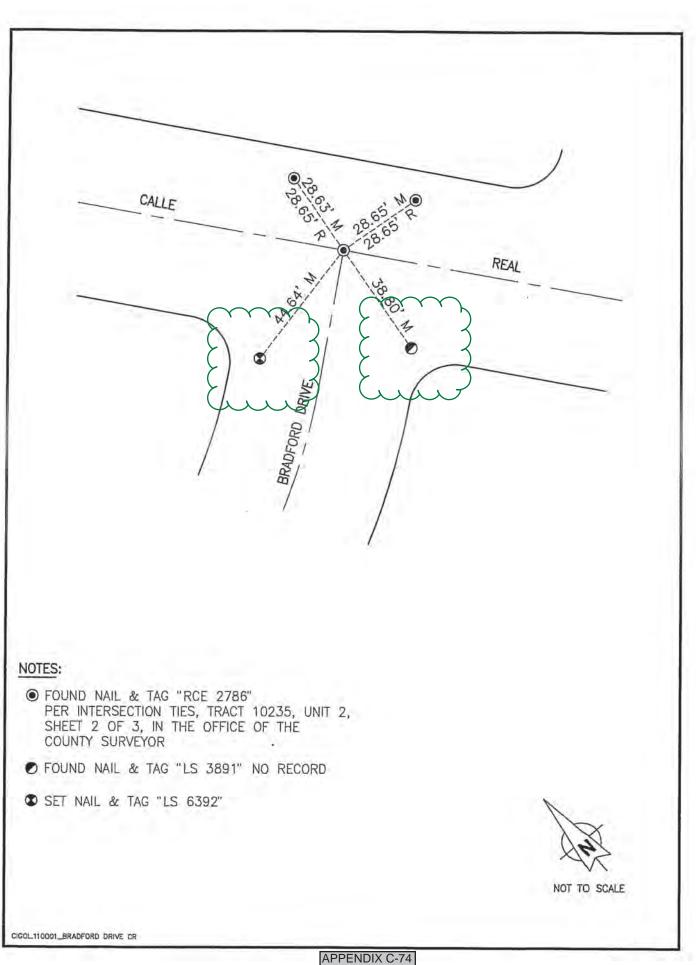


CR 4050

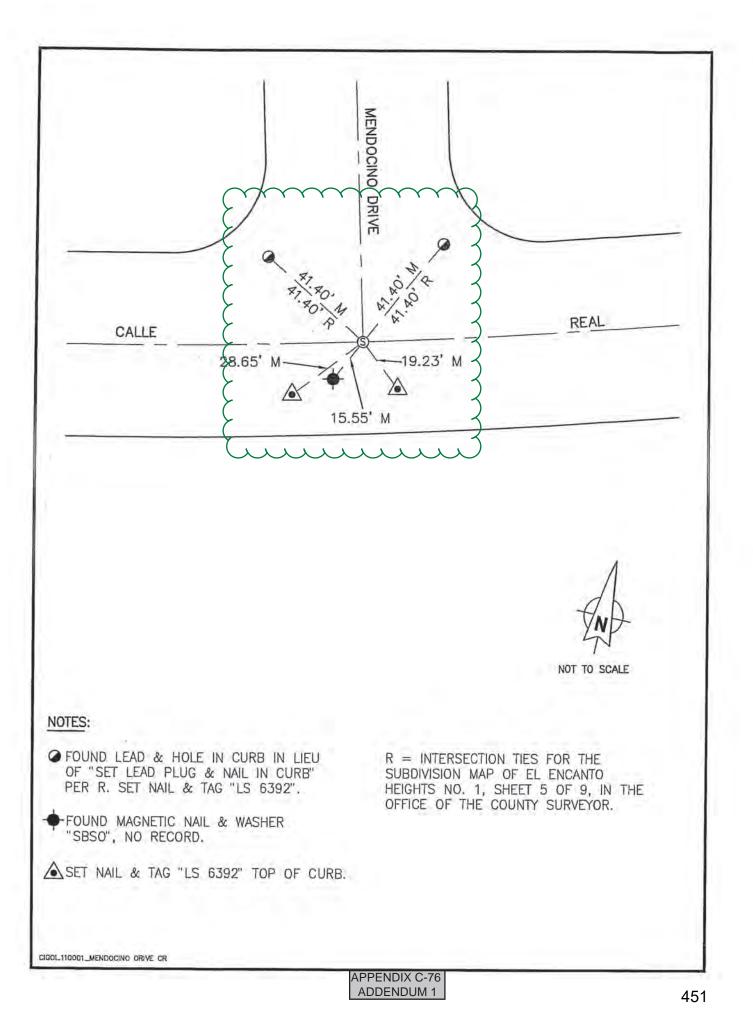
City of	GOLETA	County	of SANTA	BARBARA	California
Brief Legal Descr	iption LANCASTER PLA PER MAP BOOK	CE & CALLE REAL INT	ERSECTION A	.P. NO. 079-3	564-005
	CO Government Co	RNER TYPE	N	COORDI (Optic	nal)
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A description of the SEE SHEET 2.	physical condition of the	e monument as found a	and as set or	reset:	
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		Page 1 of 2 APPENDIX C-71			440
		ADDENDUM 1			446



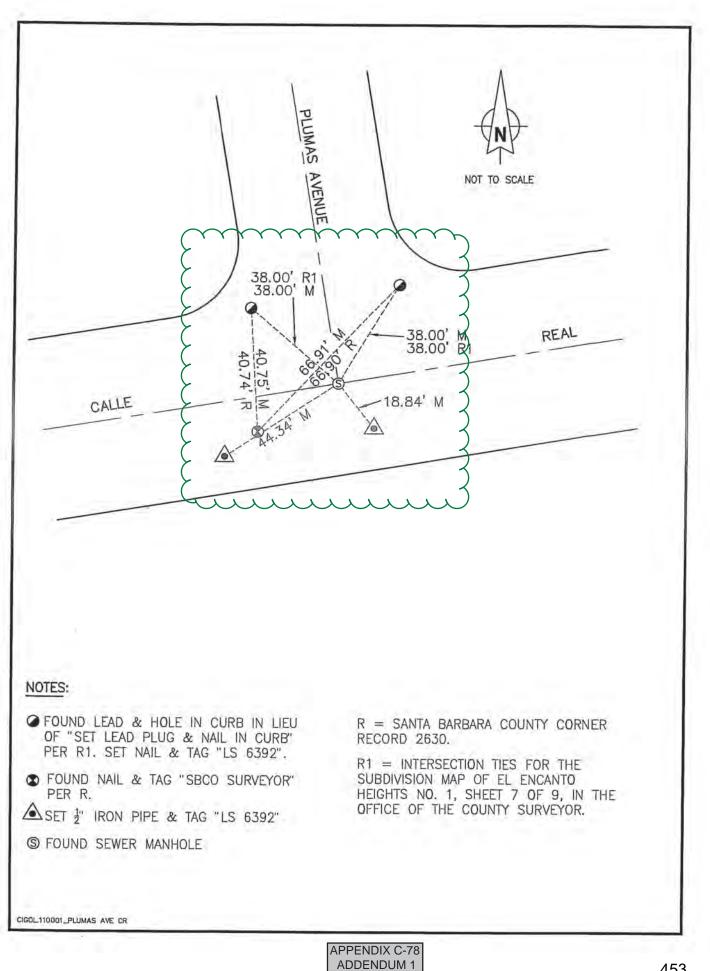
City of			×.	1.1.1	CR 4051
	GOLETA		County of	SANTA BAR	BARA , Californi
Brief Legal Des	scription BRADFORD PER MAP B	DRIVE & CALI DOOK 70, PAG	LE REAL INTERSE	CTION A.P. N	o. 079-363-008
		CORNER TYP	ΡE		COORDINATES (Optional)
	Government Meonder	t Corner 🗆	Control 🛛 Property 🕅	N	
1	Rancho	ū	Other		Datum
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	d was prepared by me	or under my	direction in confor	mance with	Mark E. Reinhardt
the Land Surveyor	d was prepared by me	or under my MARCH 22	direction in confor 20 <u>_12</u> .	*	Mark E. Reinhardt No. 6392
the Land Surveyor	d was prepared by me	or under my	direction in confor 20 <u>_12</u> .	*	Mark E. Reinhardt No. 6392
the Land Surveyor	d was prepared by me	or under my MARCH 22 L.S. or R.C.E.	direction in confor 20 <u>_12</u> . Number <u> LS_6</u> .	*	Mark E. Reinhardt 9
This Corner Record	d was prepared by me	or under my MARCH 22 L.S. or R.C.E.	direction in confor 20 <u>_12</u> . Number <u> LS_6</u> .	*	Mark E. Reinhardt No. 6392
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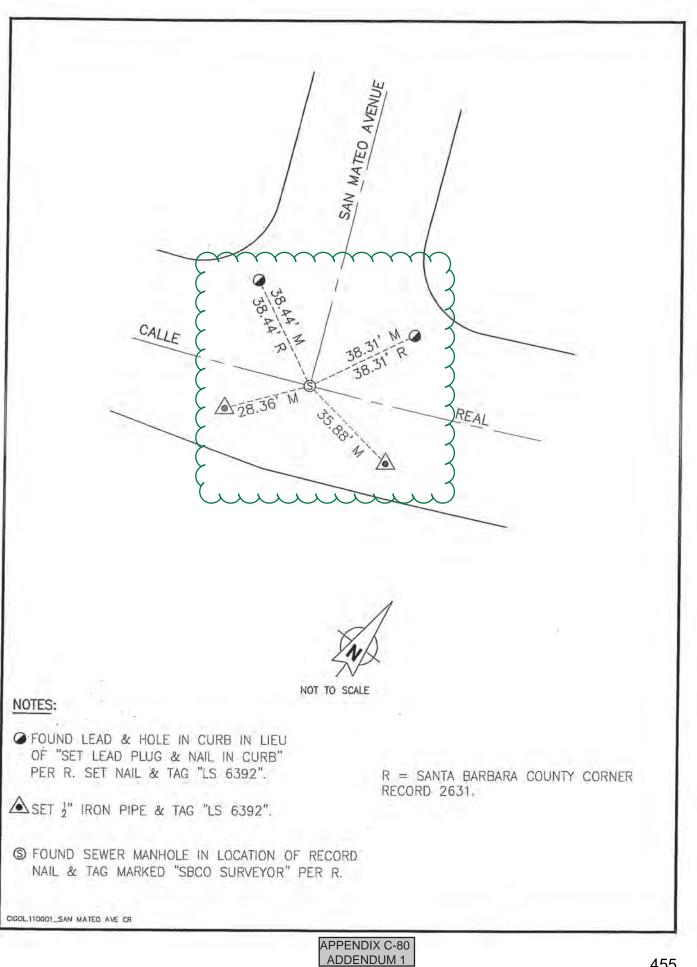
CORNER RE	ECORD	~		CR 4	052
City of	GOLETA	Co	unty ofSANT/	A BARBARA	, California
	cription MENDOCINO				
-1-1-		CORNER TYPE	200		DINATES
	Government Meander	Corner 🗌 Control		N	otional)
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	e physical condition of			r reset:	
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		S STATEMENT		100	SELEN
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signed MA	EAD	L.S. or R.C.E. Number.	10.0700	- SITE OF	- Start
	COUNTY SURVEY	OR'S STATEMENT		OF	CALIFORM
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Ind filed Apr.	unmont.	20 12		Hed Under Here PL	REMO
Signed A for a		Title	NTY SURVEYOR	- (* Z PL	S 8378 5 *
County Surveyor's Comm	ent			- It of	CALIFORM
		Page 1 of 2			



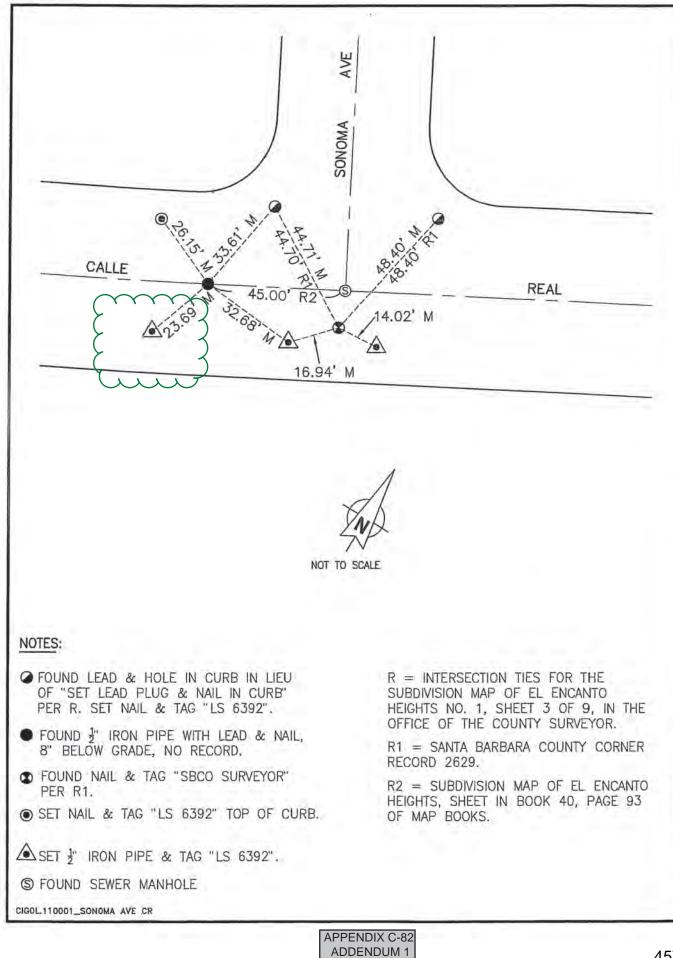
CORNER F	RECORD	V		CR 40	55
City of	GOLETA	Co	ounty of SAM	TA BARBARA	California
Brief Legal De	scription PLUMAS AVE MAP BOOK 4	NUE @ CALLE REAL 40, PAGE 92	INTERSECTION	A.P. NO. 077-1	43-011
				COORDII (Optio	nal)
	Government Meonder Rancho Date of Sur	Corner Contro Proper Other vey <u>SEPTEMBER 6, 2</u>	ty 🕅	N E Zone D Elev	Datum
Corner – Left	as found 🛛 Found ar	nd tagged 🗆 Estab	ished 🗌 Reest	oblished 🗆 Reb	uilt 🗆
the corner: <u>SURVE</u> SEE SHEET 2.	EYED IN ACCORDANCE			PRIOR TO CONST	RUCTION.
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	's Act on			Mark E. I No. 6	Reinhardt 6392
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	COUNTY SURVEY	OR'S STATEMENT		I A MA	
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County Surveyor's Com	ment			OF CAL	FOR
		Page 1 of 2			
		APPENDIX C-7 ADDENDUM 1	7		452



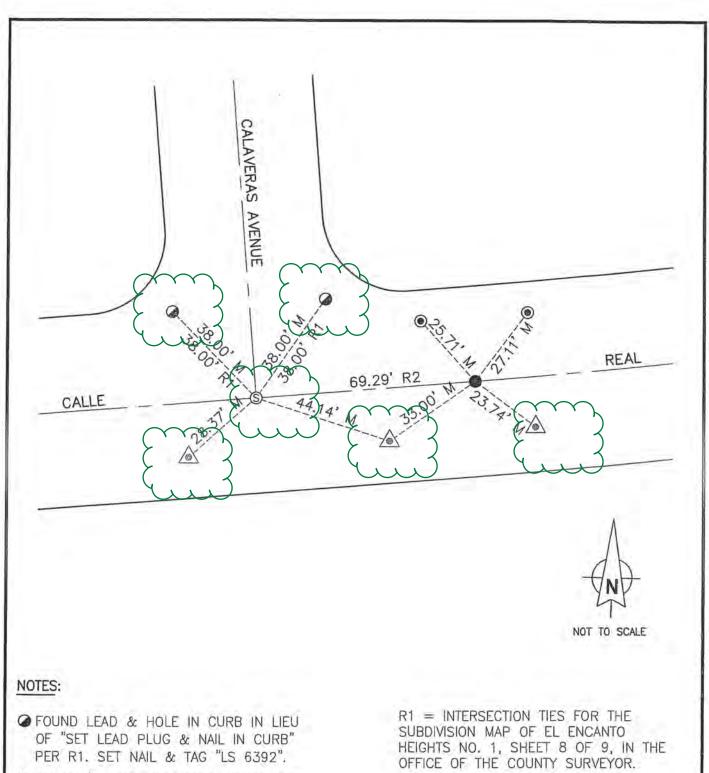
CORNER RE	CORD	V		(CR 4056	
City of	GOLETA		County of_	SANTA BARB	ARA	Californi
Brief Legal Desc	ription SAN MATEC	AVE & CALLE BOOK 40, PAGE	REAL INTERSECT	ION A.P. NO	. 077–151	-012
		CORNER TYPE			COORDINA	
		nt Corner 🗆		N	(Optional	
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Corner – Left a	s found 🛛 Found	and togged 🗌	Established 🗆	Reestoblished [] Rebuilt	
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	physical condition o		as found and as	set or reset;		
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					SIONAL LA	So Se
		'S STATEMENT		14	3	1 Stall
	was prepored by me			ionce with	Aork E. Reir	ihardt S
ne Land Surveyar's	Act on	ZMARCH 23		*	No. 639	/*/
igned	11	L.S. or R.C.E. N	umber <u>LS 639</u>	<u>92</u>	THE OF CAL	FORME
	COUNTY SURVE	YOR'S STATEME	ENT		OF CAL	
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nd filed Apr	1 6	20 12		1	SED DAR JE	12
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aunty Surveyar's Cammer	nt				THE OF CAL	FORT
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		Page 1 APPENDI				
		ADDENI				454



CORNER REG	CORD	×2		CR 40	57	
City of	GOLETA		County of	SANTA BARBARA	_, California	
Brief Legal Descri	iption SONOMA A	VE & CALLE REAL	INTERSECTION	A.P. NO. 077-1		
	PER MAP	BOOK 40, PAGE 9	13		_	
E 1917 - 1		CORNER TYPE		COORDI		
	Governmen	Government Corner 🛛 🛛 Control 🔲		(Optional) N		
E.	Meander Rancho		roperty 🛛 ther 🛛	E D		
	Dote of Survey SEPTEMBER 6, 2011		Elev.			
Corner – Left as	found 🛛 Found	and tagged 🗆 🛛	Estoblished 🗌 R	eestablished 🗆 🛛 Reb	uilt 🗆	
2. A Market Mar Market Market Mark	D IN ACCORDANCE		ACT, SECTION 87	lure used to establish 71 PRIOR TO CONST		
5.55.55.5						
				set or reset:		
SEE SHEET 2.						
				-		
	SURVEYOF	R'S STATEMENT		SIONAL	LAND SE	
					132	
his Corner Record w	as prepared by me			nce with Mark E. 1	Reinhardt 9	
he Lond Surveyor's A	sct on	MARCH 23	20 12	(*)	*	
Signed	ALL.	L.S. or R.C.E. Nu	mber LS 6392	2 62	1 The second second	
				STATE OF C	ALIFON	
	COUNTY SURVE	EYOR'S STATEMEN	νT			
his Corner Record w	as received _/ha	vil 6	20 12 ond a	examined LAND	S	
and filed April	6	20 12		SEANDAR J	EL PR	
ATRIAN	iorić		COUNTY SURVEY	OR AND	ROV	
Signed Hoven		litle _	COUNTY SUIVE	PLS 83	78 5 *	
-				() The second se	132/1	
County Surveyor's Commen				OF CA	Ure	
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		Page 1 o				
		APPENDIX ADDEND			456	



CORNER RECORD			CR 4058
City of	GOLETA	County of SA	NTA BARBARA , Californi
Brief Legal	Description CALAVERAS AVE & PER MAP BOOK 40	CALLE REAL INTERSECTION	A.P. NO. 077-142-011
<u> </u> 	Meander Rancho	Control	COORDINATES (Optional) N E Zone Dotum Elev
Corner –	Left as found 🛛 Found and tage		tablished 🗌 Rebuilt
he corner: <u>S</u> SEE SHEET	2.		PRIOR TO CONSTRUCTION.
description	of the physical condition of the m	ionument os found and as set	or reset:
SEE SHEET	2.		
			5510NAL LAND SEA
	SURVEYOR'S STAT		ES ER
his Corner R	ecord was prepared by me or unde		Mark E. Reinnardt
he Land Surv	veyor's Act on MARCI	H 2320	* No. 6392
Signed	Matthe P.s. or	R.C.E. Number LS 6392	- SITE CE ULEORIT
			FIE OF CALIFORN
	COUNTY SURVEYOR'S	STATEMENT	
his Corner R	ecord was received JUNE	8 20 12 and exor	mined I AND
nd filed	June 19 miz		
	June 19 2012 Jerronic		A SEANDAR JEARING
igned	100 Willing		* Z PLS 8378
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ounty Surveyor's	s comment		OF CALIFOR
		Page 1 of 2 APPENDIX C-83	
		ADDENDUM 1	458



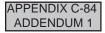
FOUND ¹/₂" IRON PIPE WITH LEAD & NAIL, 8" BELOW GRADE IN LIEU OF COPPER SPIKE & TAG MARKED "RE 2786" SET IN LEAD PLUG PER R2.

● SET NAIL & TAG "LS 6392" TOP OF CURB.

▲ SET 1" IRON PIPE & TAG "LS 6392".

S FOUND SEWER MANHOLE

CIGOL110001_CALAVERAS AVE CR



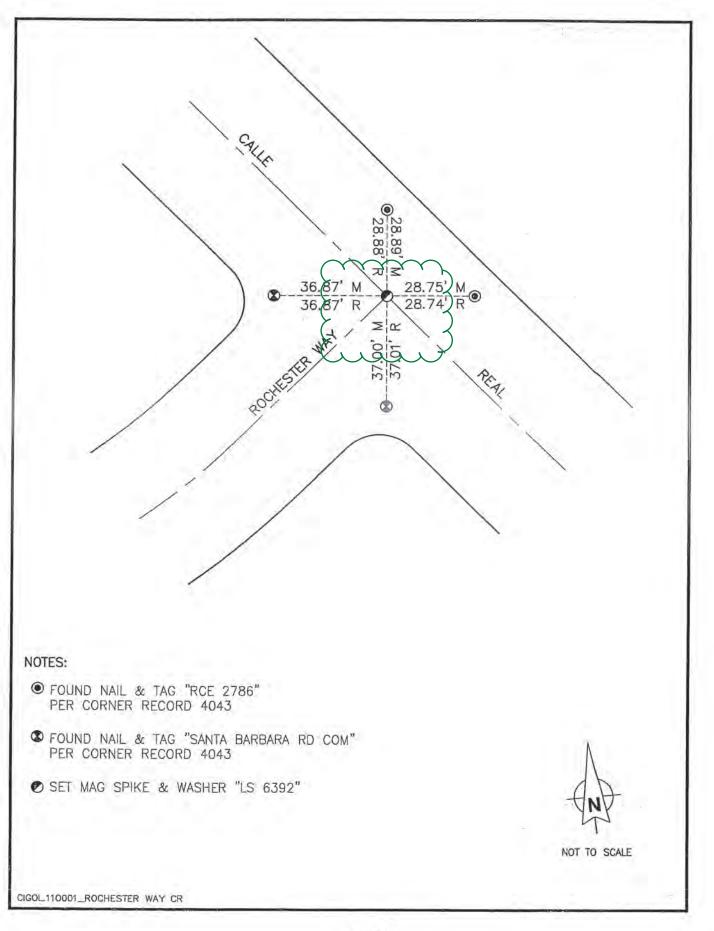
R2 = SUBDIVISION MAP OF EL ENCANTO

HEIGHTS, SHEET 2 OF 4, IN BOOK 40,

PAGE 92 OF MAP BOOKS.

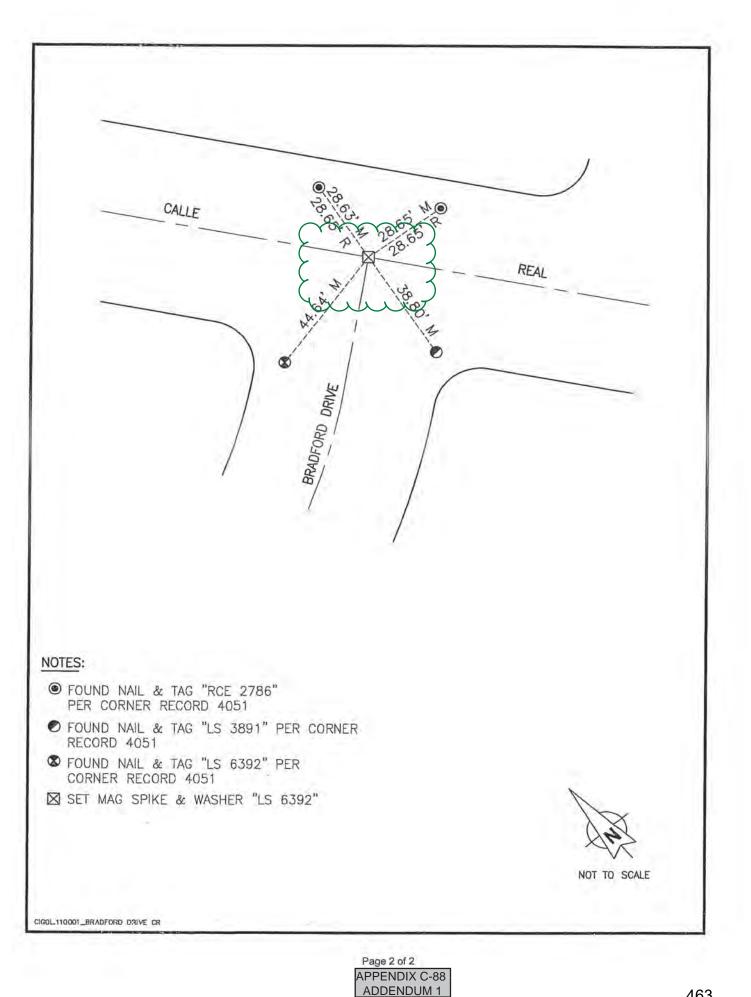
CR ALAA

City of	GOLETA	County of	SANTA BARBARA , California
Brief Legal	Description ROCHESTER WAY & CA PER MAP BOOK 71, P	LLE REAL INTERSECT	TION A.P. NO. 079-384-018
	CORNER T	YPE	COORDINATES (Optional)
	Government Corner	Control	N
an du na	Meonder Rancho	Property 🛛 Other 🛛	Zone Datum
P	Dote of Survey OCTOB	ER 18, 2011	Elev.
Corner – L	Left as found 🖾 Found and tagged [🛛 Established 🗆	Reestoblished 🛛 Rebuilt 🗆
Identification a	nd type of corner found: Evidence use	ed to identify or proc	edure used to establish or reestablish
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	ED USING TIES SHOWN ON CR 4043	かん たい かたい たいのう	
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C-0			
	of the physical condition of the monur		
CENTERLINE I	NAIL & TAG DESTROYED BY CONSTR	UCTION, RESET MAG	SPIKE & WASHER "LS 6392"
ON SURFACE.	RESET PER TIES.		
			IONAL LAND
	SURVEYOR'S STATEME	NT	Slowe Sill
			132
This Corner Re	cord was prepared by me or under m	y direction in conform	a Mark E. Reinnarat
the Land Surve	evor's Act on APRIL 1	20 12	★ No. 6392 ★
01	11/1/15	E. Number LS 63	80 KN 50
Signed	E.S. or R.C.	E. Number LS 00	FIE OF CALIFORN
			OF CALIT
	COUNTY SURVEYOR'S STAT	EMENT	
This Corner Re	cord was received JUNE 8	3 20 12 and	examined
T.	1. 7 17		SEP DAR JEUP
and filed	ing 2 2016.		The series and the series
SignedA	When and LS8378	Title COUNTY SURVI	EYOR ((3))
1			* Z PLS 8378 0 *
<u> </u>			ALL ALL
County Surveyor's (Comment		OF CALIFO



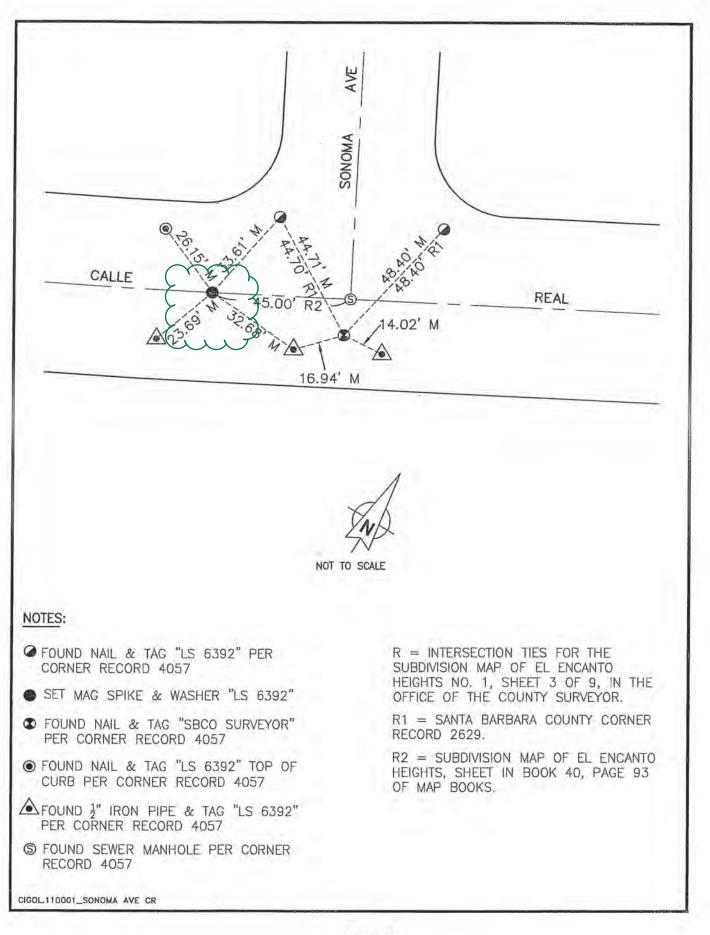


CORNER F	RECORD	-		CRAI	A5
City of	GOLETA	County o	fSANTA BA		, Californic
	BRADFORD DRIV	/E & CALLE REAL INTERS	ECTION A.P.	NO. 079-36	
	со	RNER TYPE		COORDIN (Option	
	Government Co Meander	rner 🗆 Control 🗆 🗆 Property 🛛	N F		
	Rancho	OCTOBER 18, 2011	Zone	e Do	otum
Corner – Lef	t as found 🛛 Found and	tagged 🗌 Established 🗆	Reestablishe	d 🖾 Rebu	ilt 🗆
the corner: MONU	type of corner found: Evide JMENT PER CR 4051 FOU USING TIES SHOWN ON C	ND TO HAVE BEEN DEST	ROYED DURING		
CENTERLINE NA	the physical condition of the IL & TAG DESTROYED BY RESET PER TIES.		AG SPIKE & V		
	SURVEYOR'S S	TATEMENT		STONAL I	AND SU
This Corner Recor	rd was prepored by me or	under my direction in conf	ormance with	Mark E. R	einhardt 8
the Land Surveya	1- ATA	<u>RIL 1</u> 20 <u>12</u> . ar R.C.E. Number <u>LS</u>		* No. 6	392
	COUNTY SURVEYOR			E OF C	ALIFOR
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and filed JUL		12.	ana examinea	UNSED D	AR JELAR
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County Surveyar's Con	nment			OF	CALIFOR
				_	
		the state of the s	а		
		Page 1 of 2			
		APPENDIX C-87 ADDENDUM 1			460



CORNER RECORD CR 4148 GOLETA SANTA BARBARA City of County of_ California SONOMA AVE & CALLE REAL INTERSECTION Brief Legal Description_ A.P. NO. 077-152-011 PER MAP BOOK 40, PAGE 93 CORNER TYPE COORDINATES (Optional) Government Corner 🗌 Control Ν. Meander Property X E. . Rancho Other Zone_ _ Datum Dote of Survey OCTOBER 18, 2011 Elev. Corner Left as found X Found ond tagged 🗆 Estoblished 🗆 Reestablished X Rebuilt 🛛 Identification and type of corner found: Evidence used to identify or procedure used to establish or reestablish the corner: MONUMENT PER CR 4057 FOUND TO HAVE BEEN DESTROYED DURING CONSTRUCTION. REESTABLISHED USING TIES SHOWN ON CR 4057. (SEE SHEET 2) A description of the physical condition of the monument as found and as set or reset:_ CENTERLINE MONUMENT DESTROYED BY CONSTRUCTION, RESET MAG SPIKE & WASHER "LS 6392" ON SURFACE. RESET PER TIES. LAND ONAL SURVEYOR'S STATEMENT PROI This Corner Record was prepared by me or under my direction in conformance with Mark E. Reinhardt No. 6392 APRIL 1 the Land Surveyor's Act on. 20 12 1 LS 6392 Signed_ L.S. or R.C.E. Number_ OF CAL COUNTY SURVEYOR'S STATEMENT June 8 ALEKS 20 12 and exomined This Corner Record wos received LICENSO 20 12 2 and filed Title COUNTY SURVEYOR Signed_ PLS 8378 County Surveyor's Comment OFCH

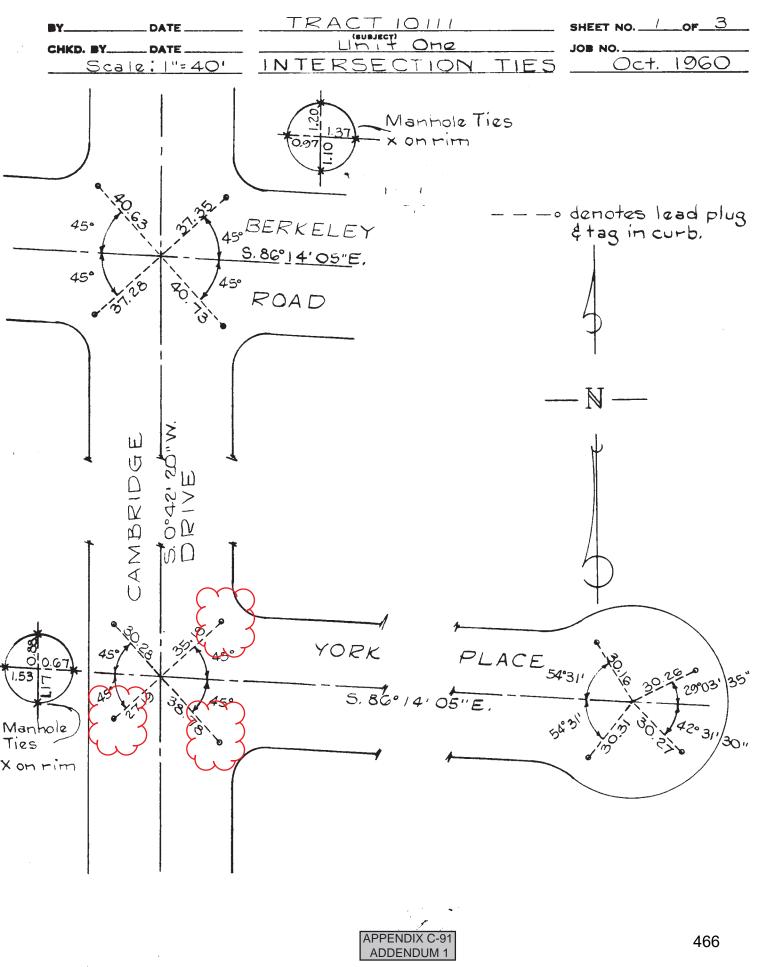
Page 1 of 2 APPENDIX C-89 ADDENDUM 1

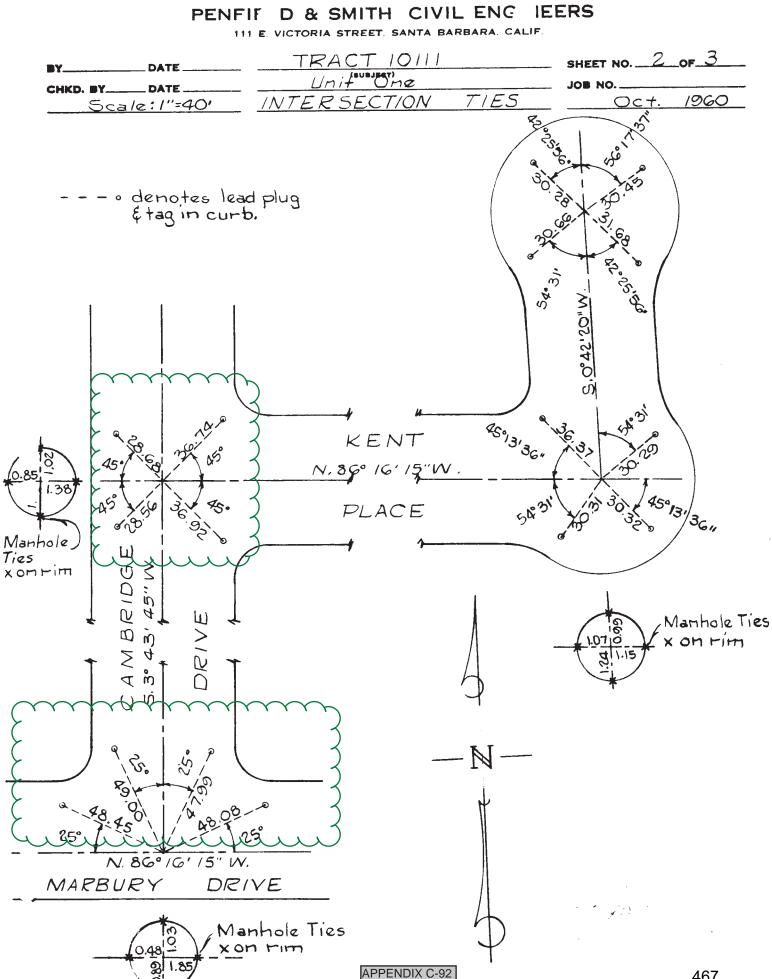


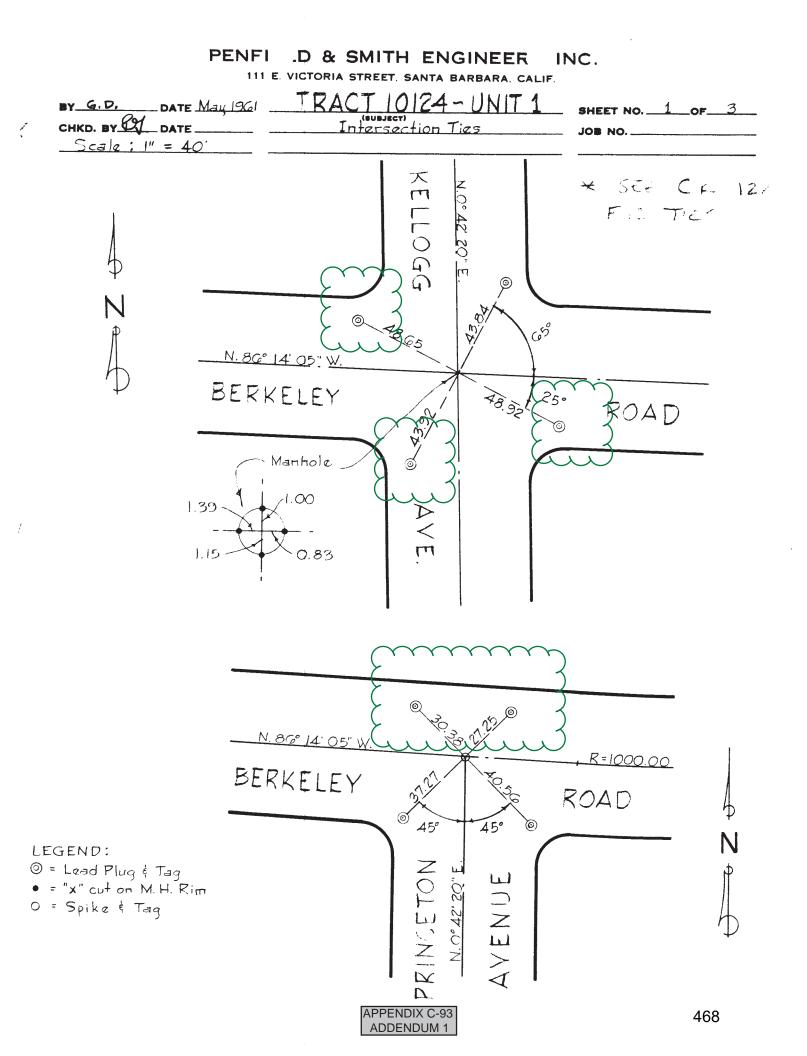


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111 E. VICTORIA STREET, SANTA BARBARA, CALIF.







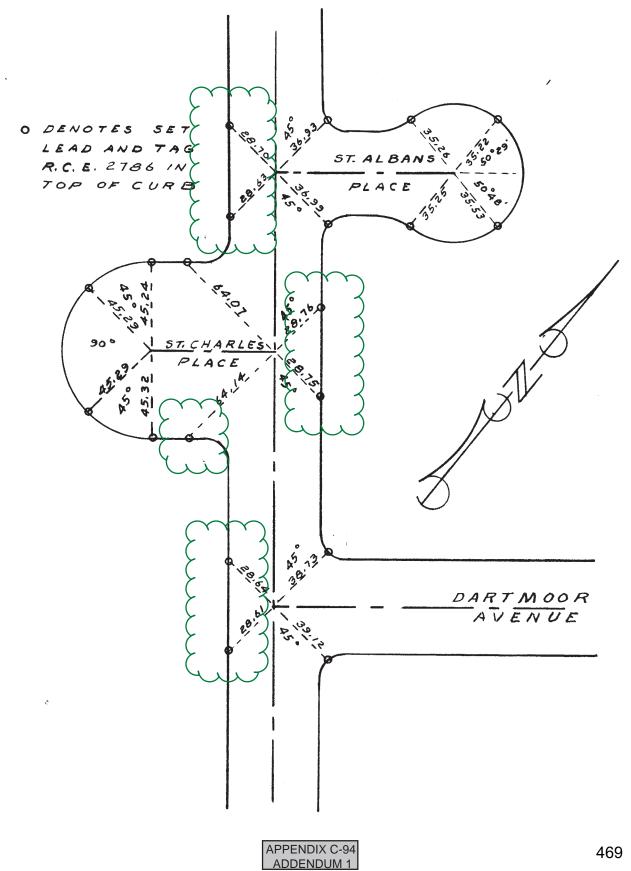
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111 E. VICTORIA STREET, SANTA BARBARA, CALIF.

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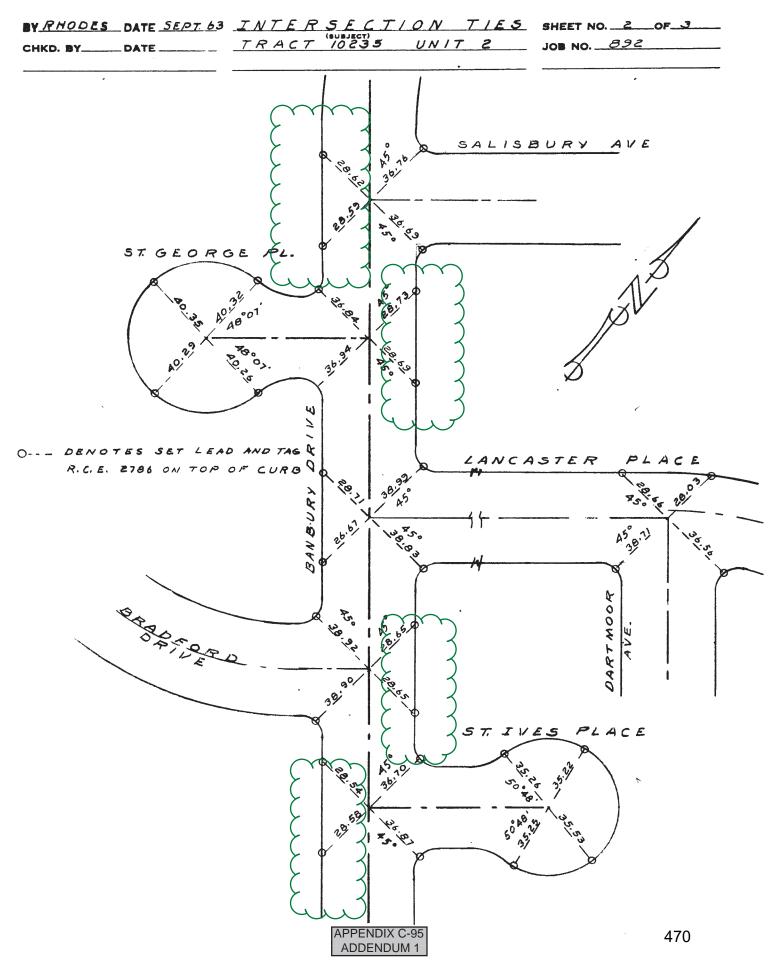
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BY RHODES DATE SEPT. 63	TRACT 10235 UNIT 2	SHEET NOOF3
CHKD. BY DATE	INTER SECTION TIES	JOB NO. 892

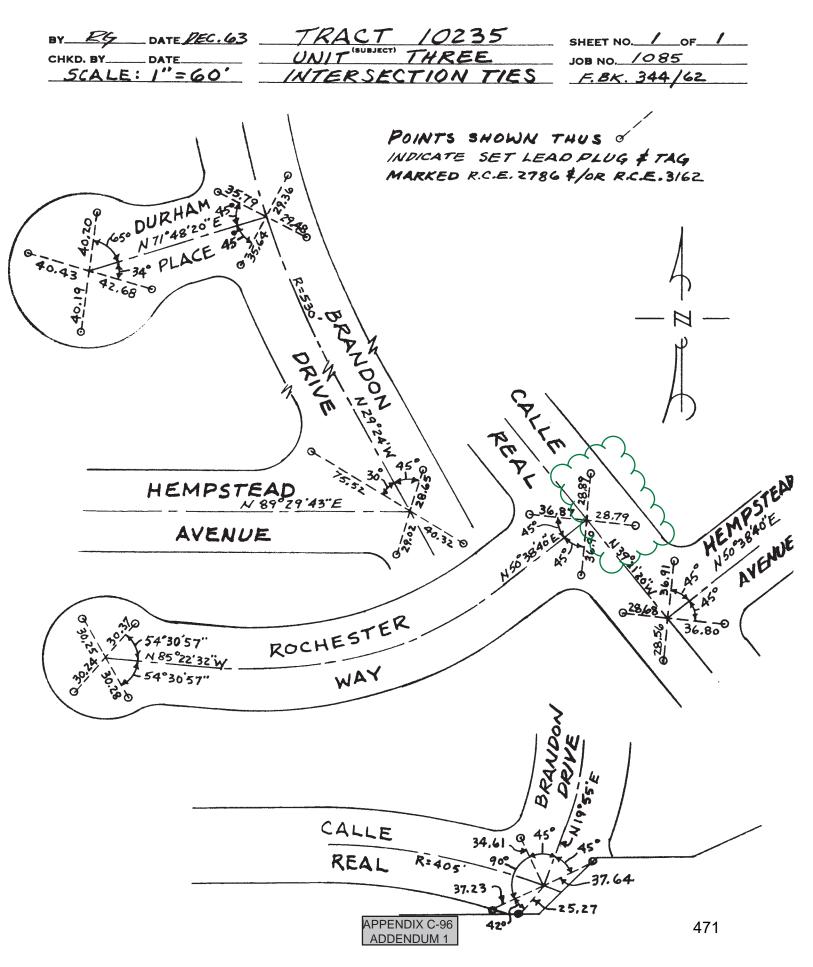


PENF LD & SMITH ENGINEE , INC.

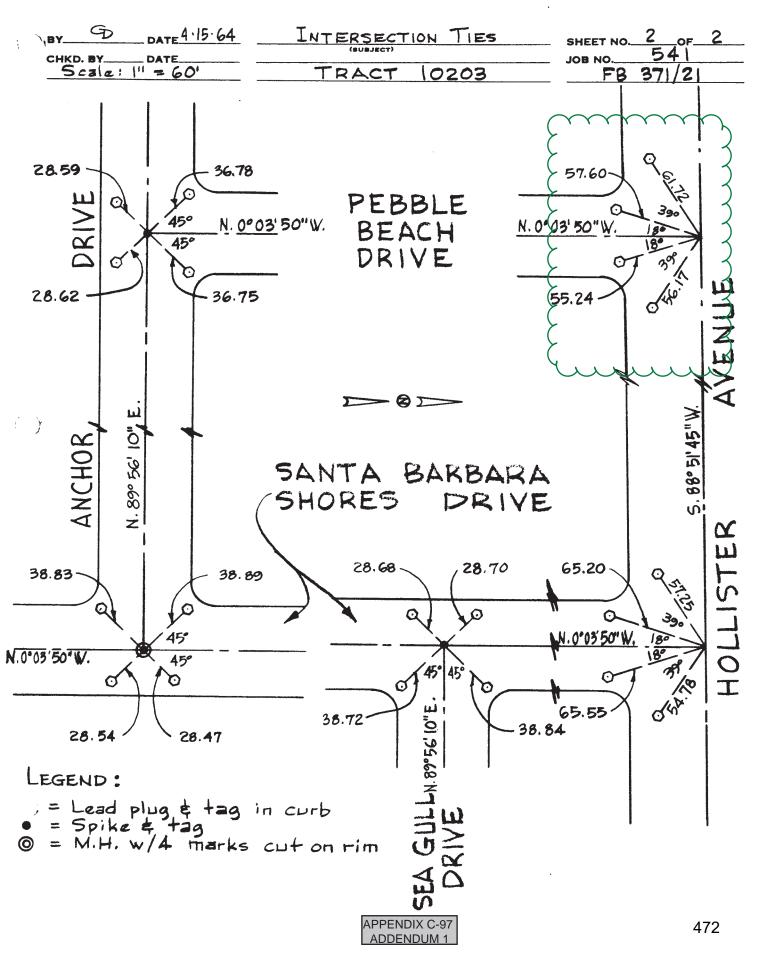
111 E. VICTORIA STREET, SANTA BARBARA, CALIF.



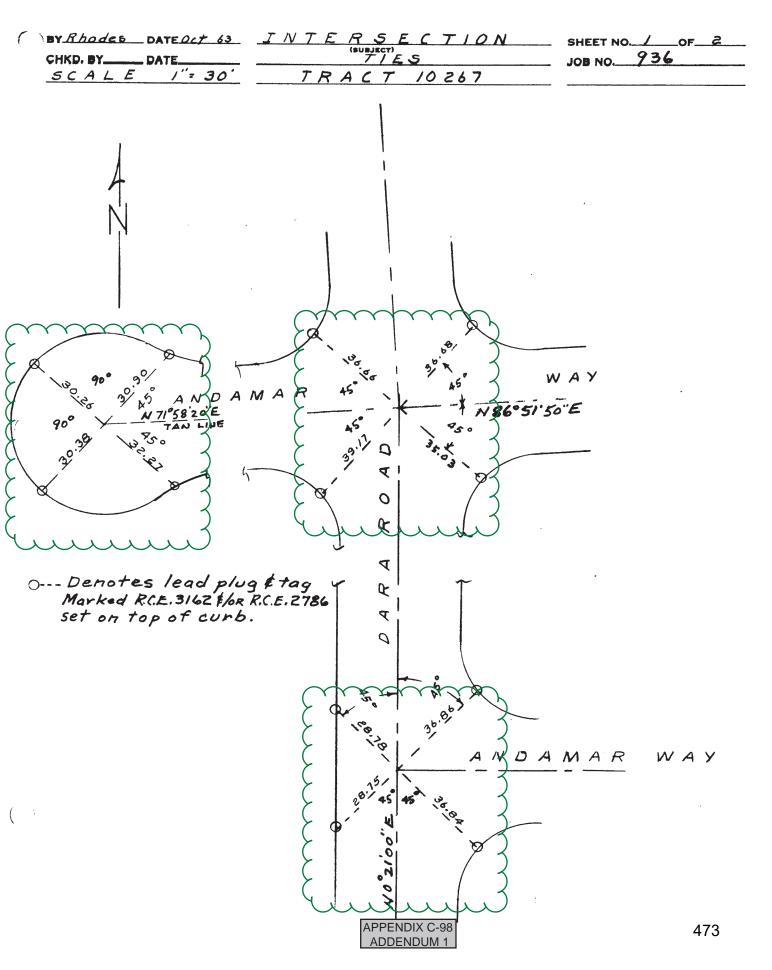




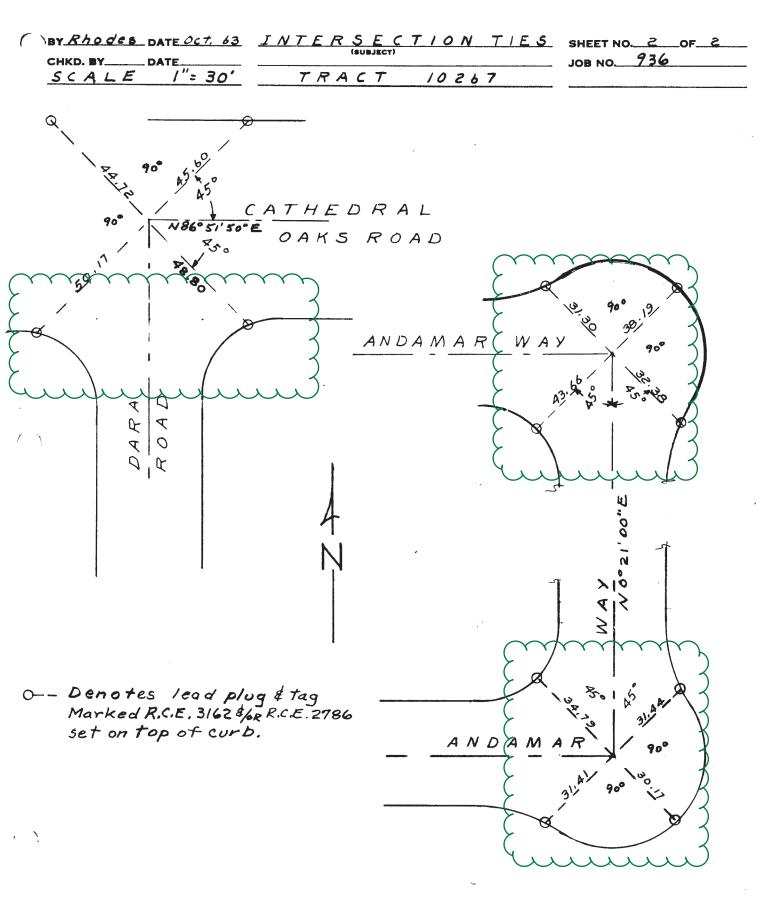


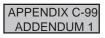












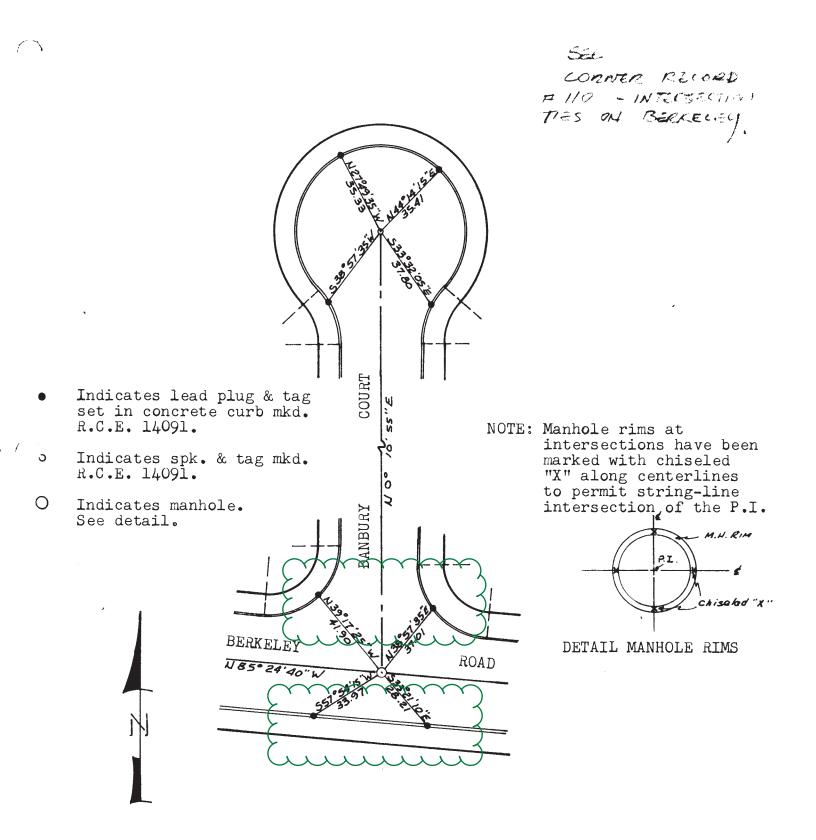
IFTERSECTION TIES - TRACT 10, 102 10402

Santa Barbara County, Calif.

Indicates lead plug & tag set in concrete curb mkd. NOTE: Manhole rims at intersections have been R.C.E. 14091. marked with chiseled "X" along centerlines to permit string-line intersection of the P.I. Indicates spk. & tag mkd. R.C.E. 14091. 0 Ο Indicates manhole. WAY See detail. -M.H. RIM P.I. U,U N 0º 10'55 KINGS Chiseled"x' DETAIL MANHOLE RIMS BERKELEY ROAD 24' 40"W

INTERSECTION TIES - TRACT 10,102

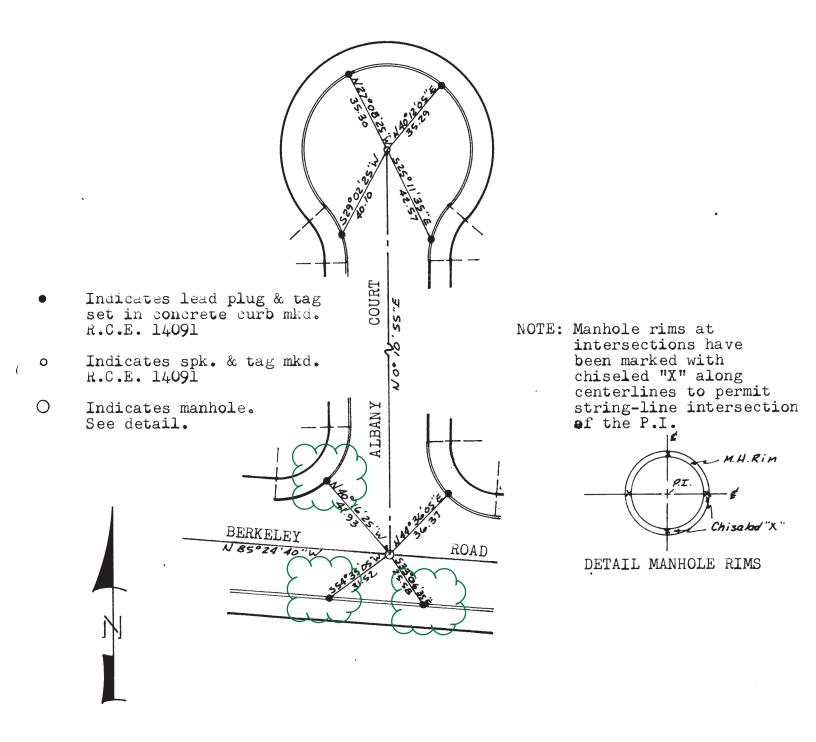
Santa Barbara County, Calif.



INTERSECTION TIES - TRACT 10,402

Santa Barbara County, Calif.

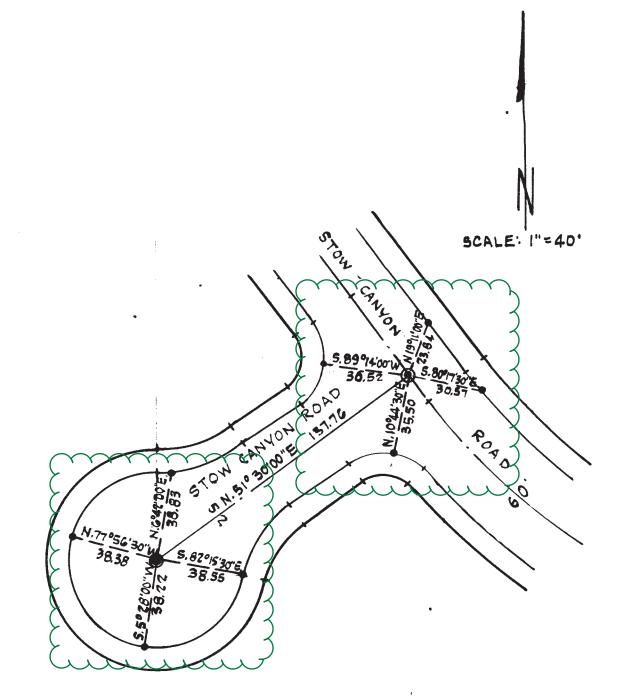
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APPENDIX C-102

ADDENDUM 1

Sheet 3 of 3



• = LEAD PLUG WITH TAG R.C.E. 10,276 IN TOP OF CURB

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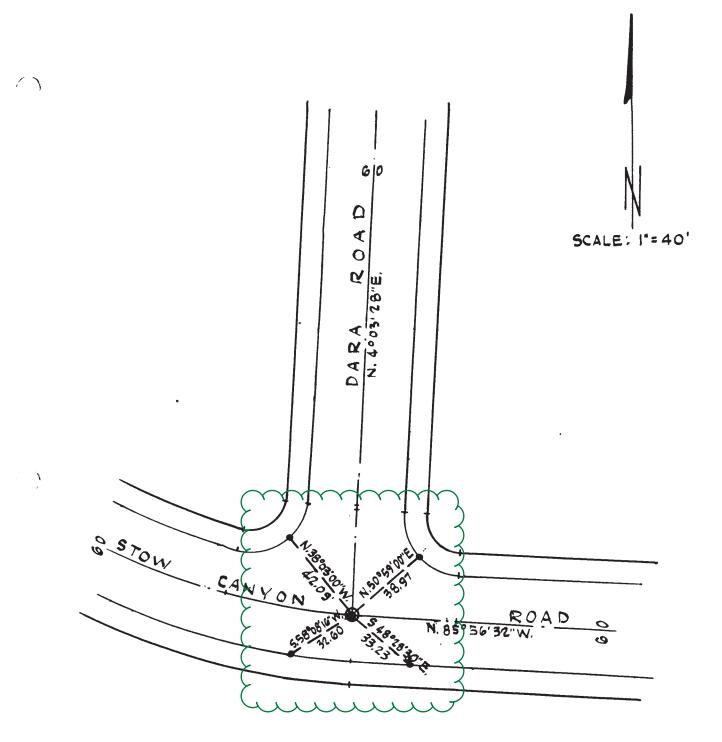
3/4" I.D. I. P. 12" SUB. SPIKE WITH TAG R.C.E. 10,27G ON SURFACE

TRACT 11,184 MONUMENT TIES

J.N. 106

APPENDIX C-103 ADDENDUM 1 17-1-01

SHEET 1 OF 4 478



LEAD PLUG WITH TAG R.C.E. 10,216 IN TOP OF CURB

3/4" I.D. I.P. 12" SUB. SPIKE WITH \bigcirc TAG R.C.E. 10,276 ON SURFACE,

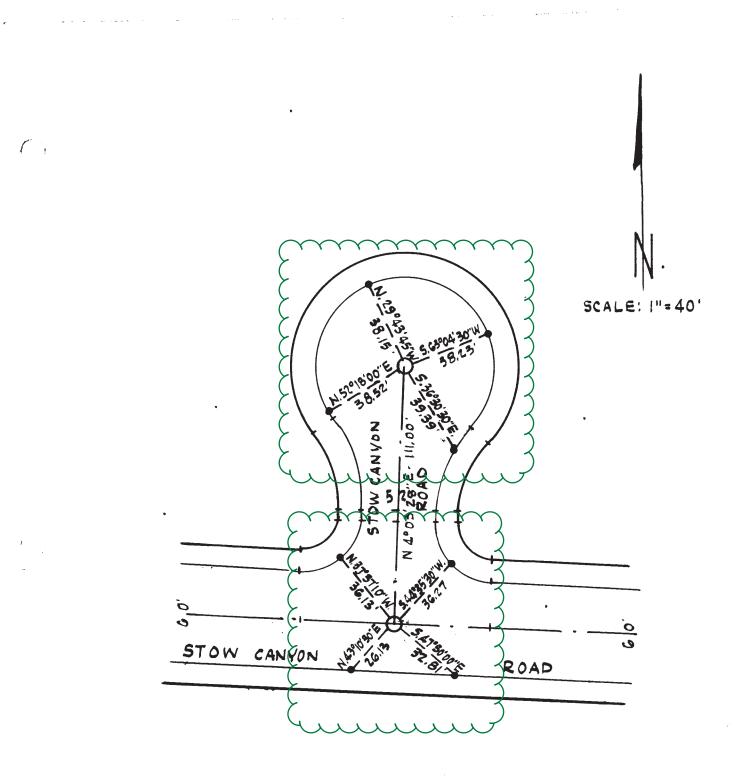
TRACT 11,184 & MONUMENT TIES

APPENDIX C-104 J.N. 706

ADDENDUM 1

10-1-71

SHEET 2 OF 4 479



• LEAD PLUG WITH TAG R.C.E. 10,216 IN TOP OF CURB

O SET IN CONCRETE COLLAR OF MAN HOLE

TRACT 11,184 & MONUMENT TIES

APPENDIX C-105 ADDENDUM 1 J.N. 706

10-1-71

SHEET 3 OF 4 480

	JN. 706
APPENDIX C-106	
ADDENDUM 1	

10-1-71

TRACT 11,184

& MONUMENT TIES

SHEET 4 OF 4-481

LEAD PLUG WITH TAG R.C.E.

10,276 IN TOP OF CURB

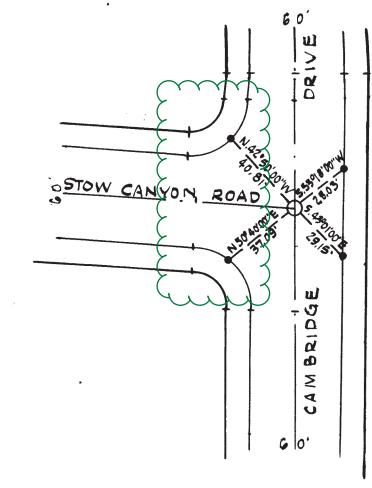
"+" CUT IN MAN HOLE RING

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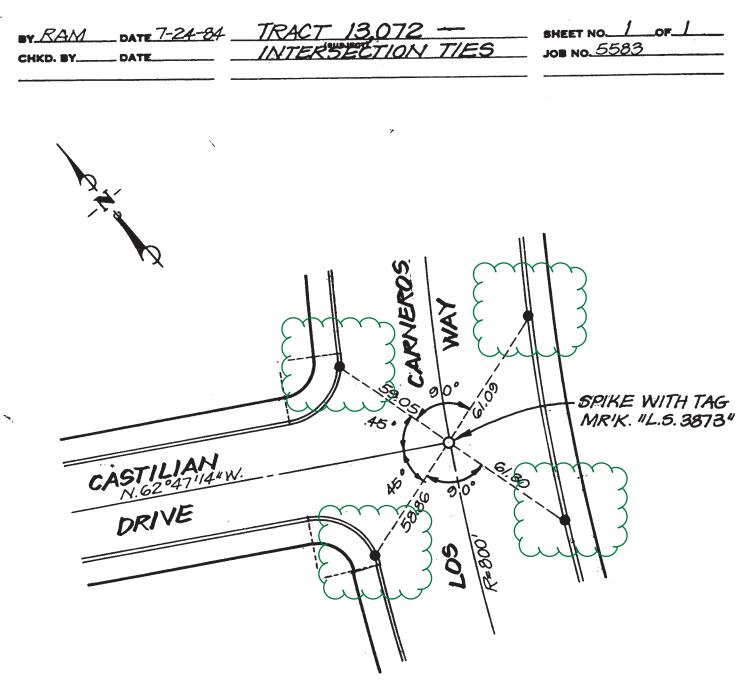
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SCALE: 1" = 40'





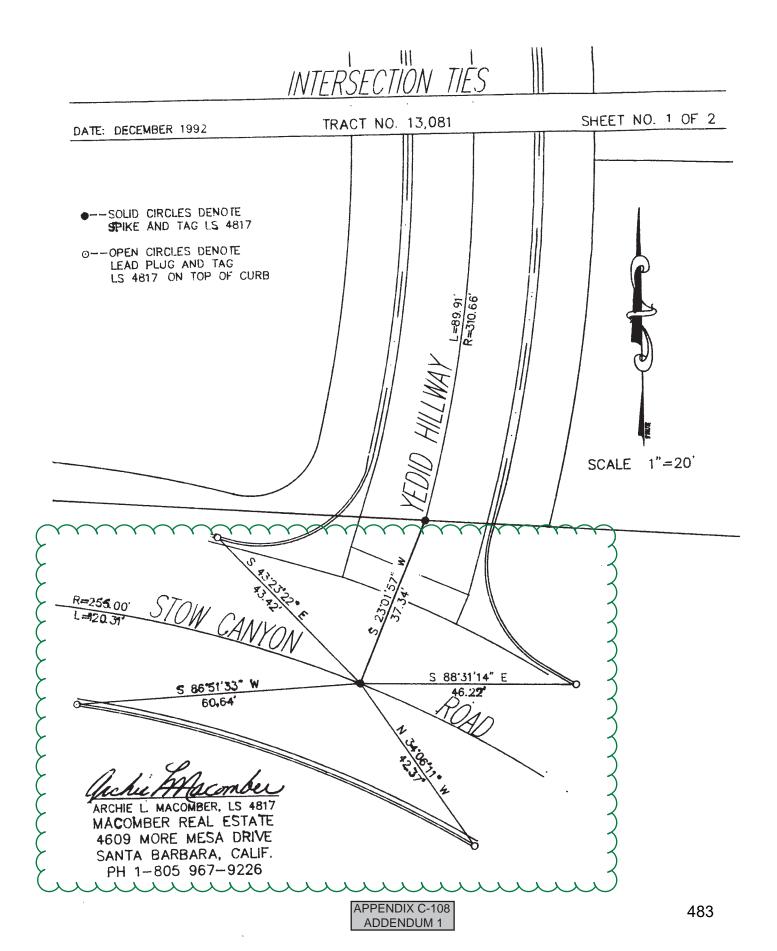
NOTES:

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的标志。这是

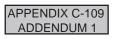


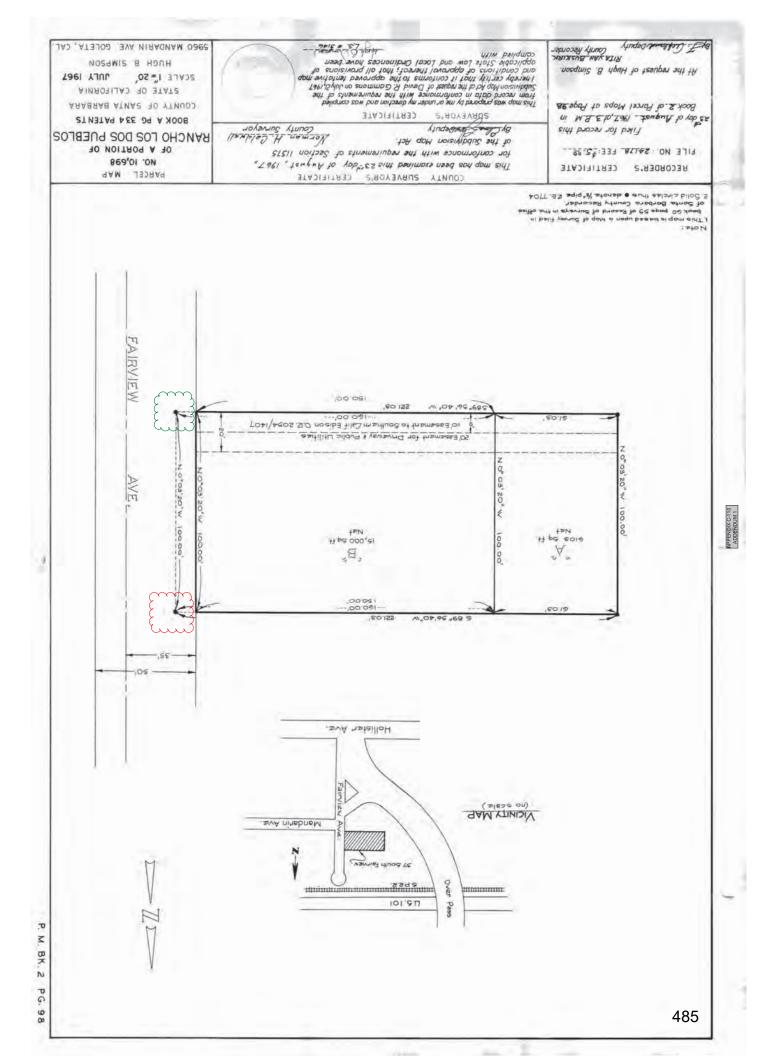
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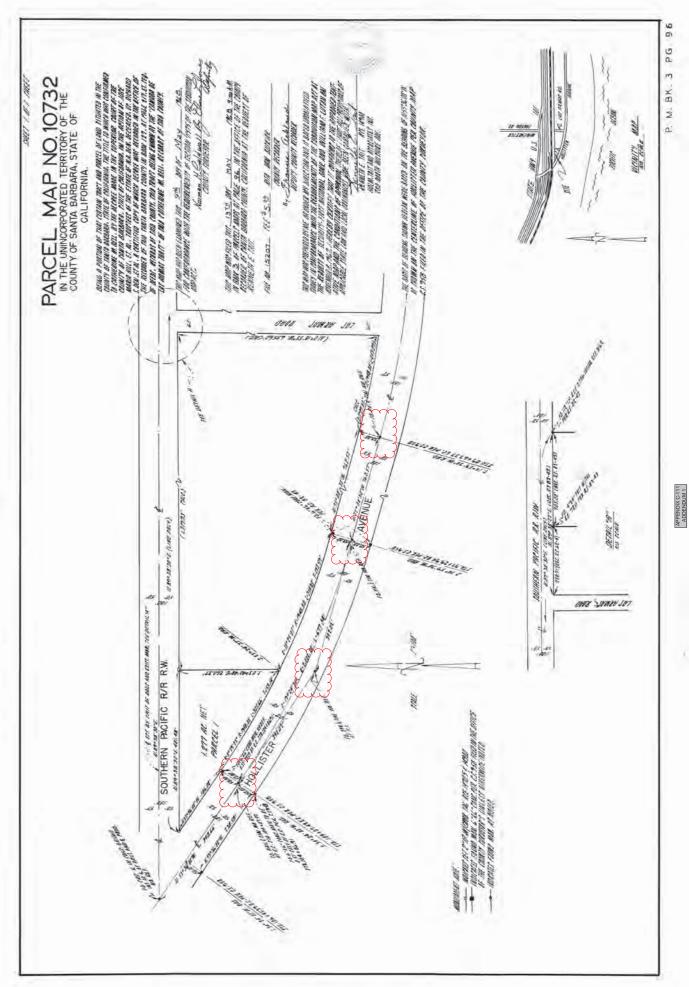


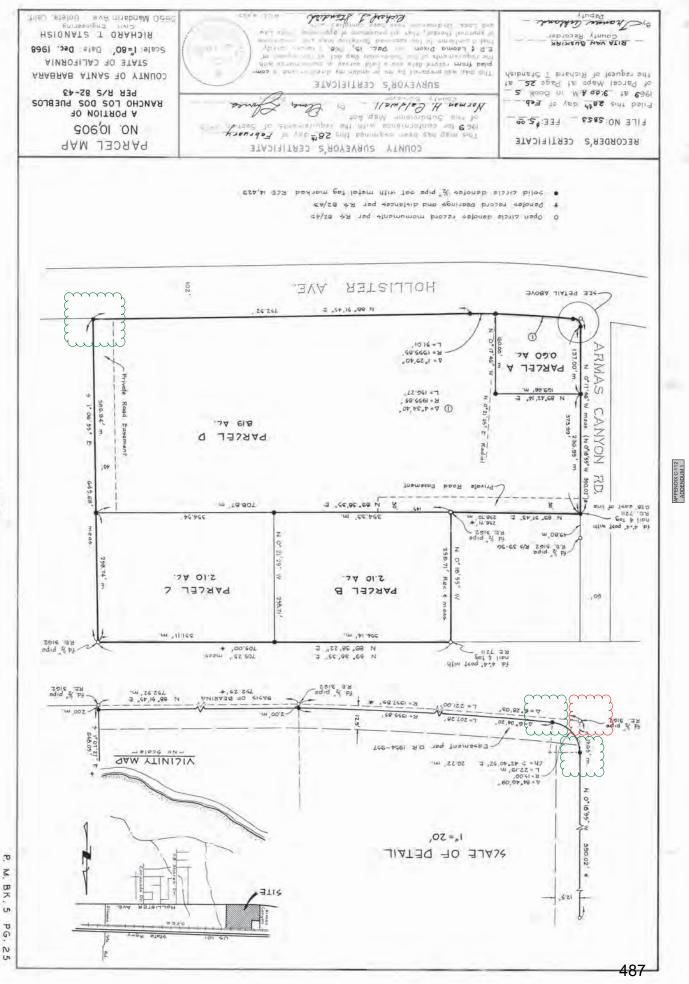
APPENDIX C

Record of Surveys, Tract Maps, and Parcel Maps



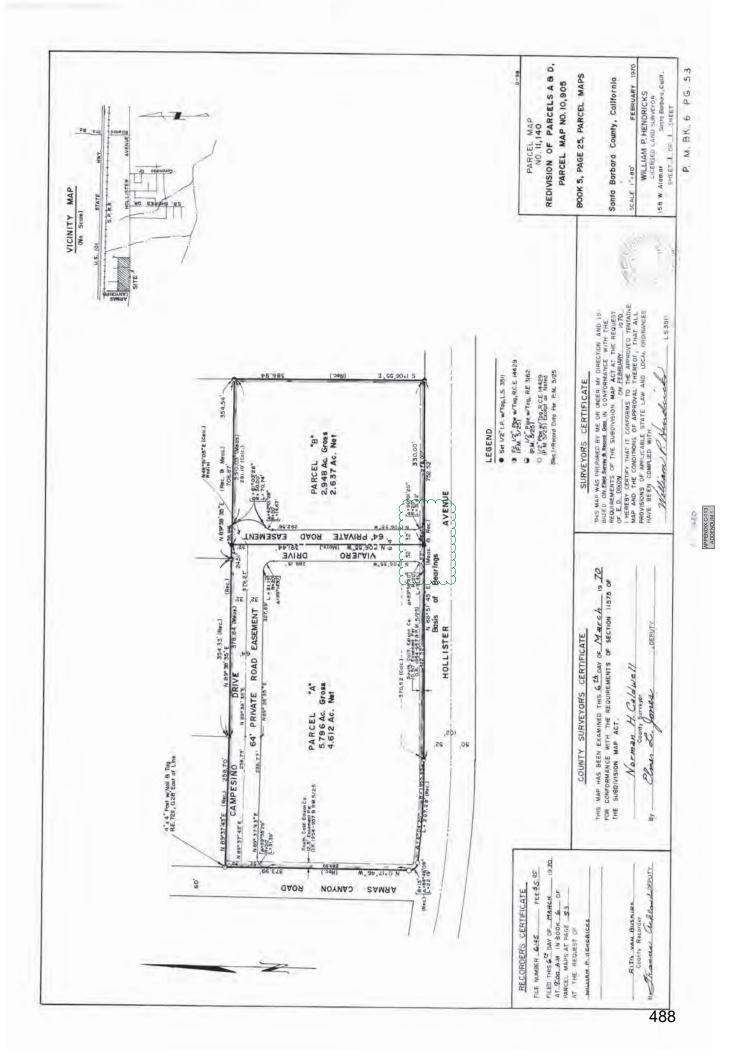


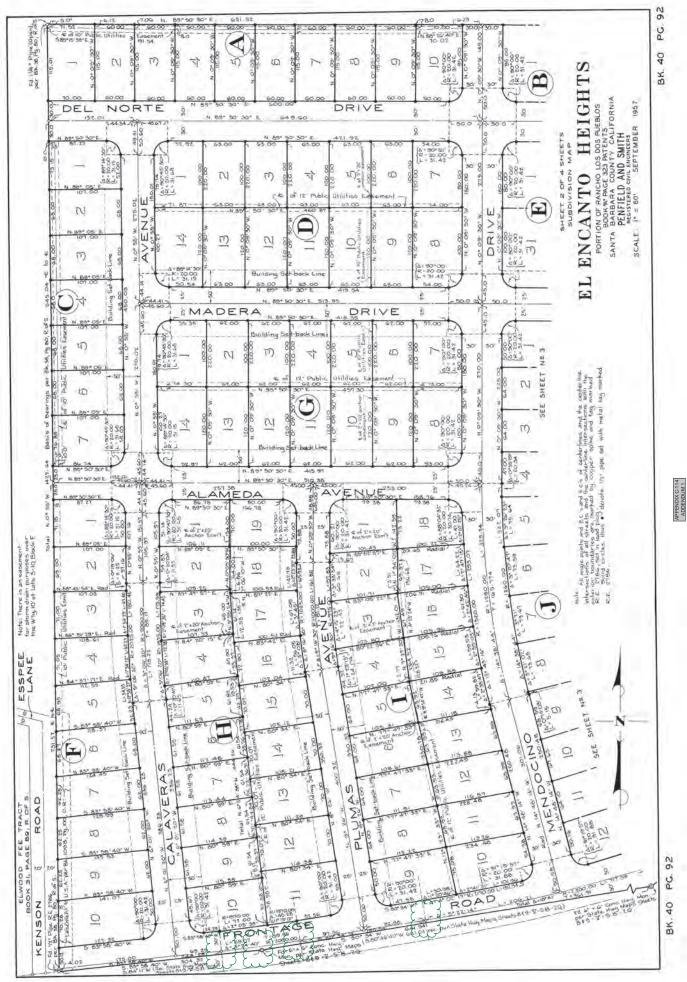


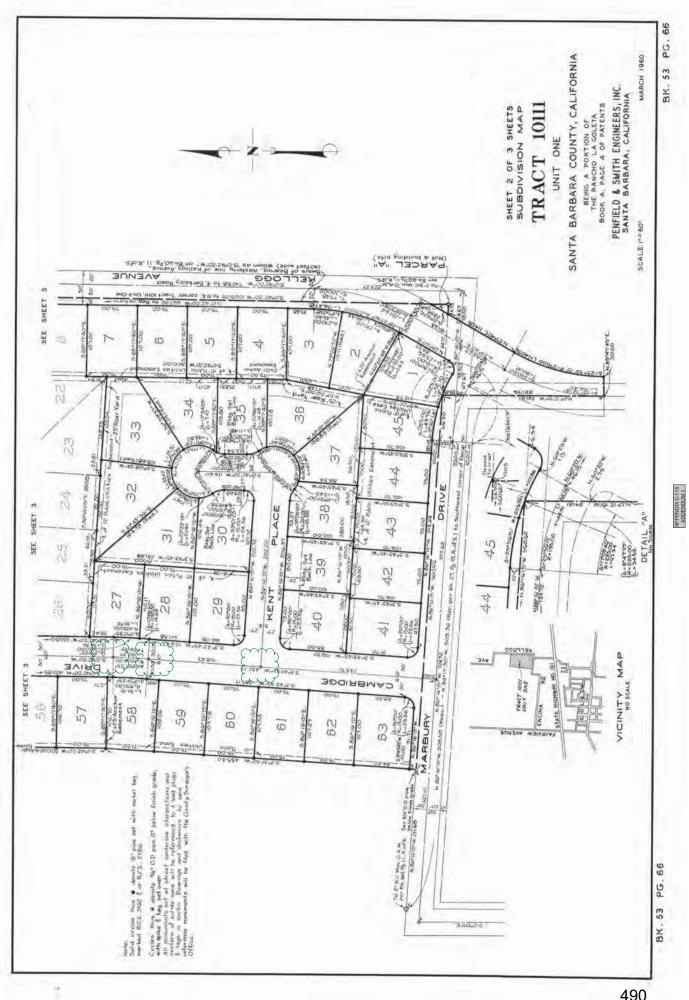


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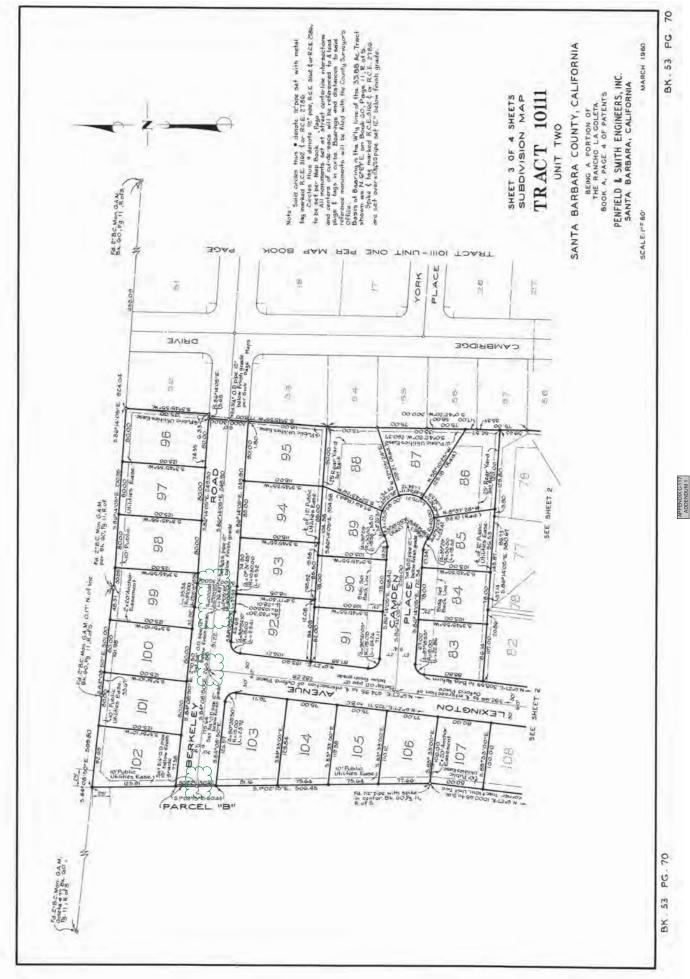
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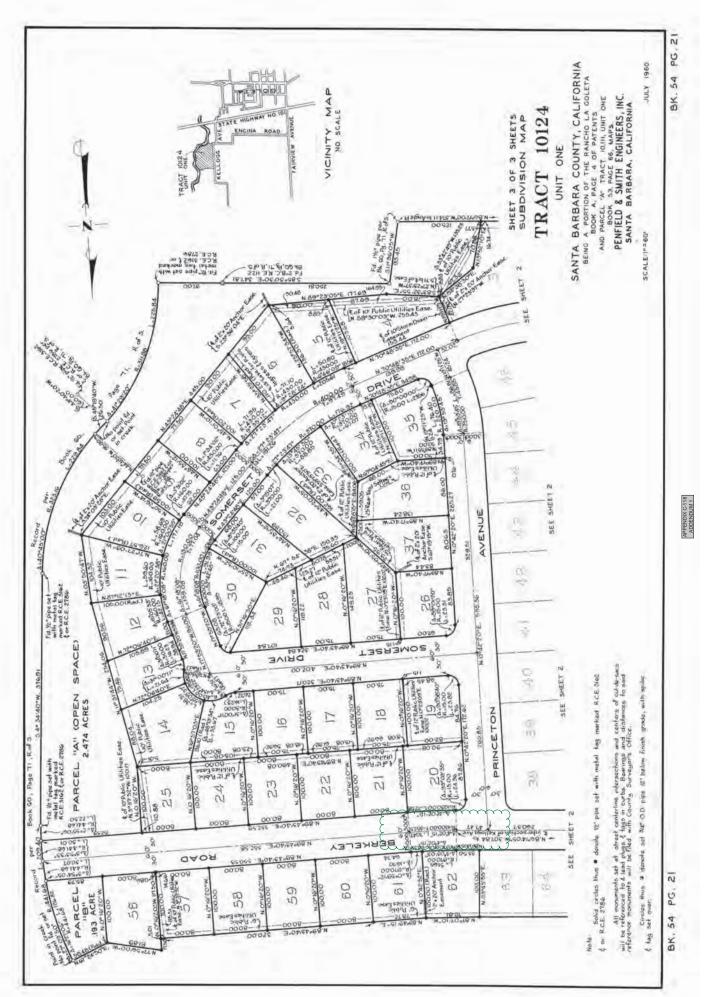


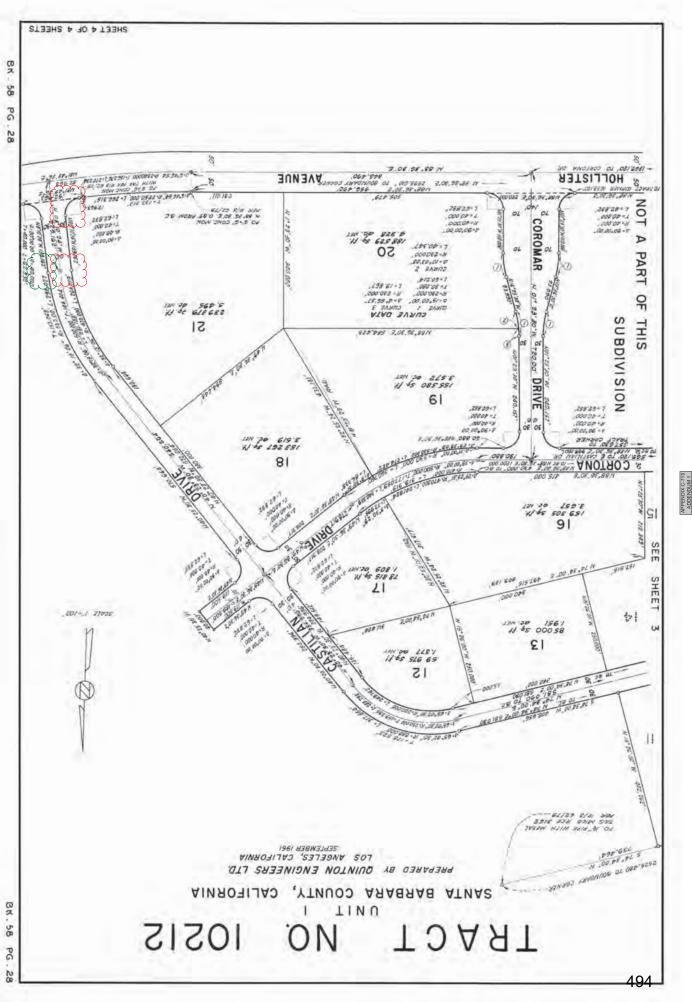


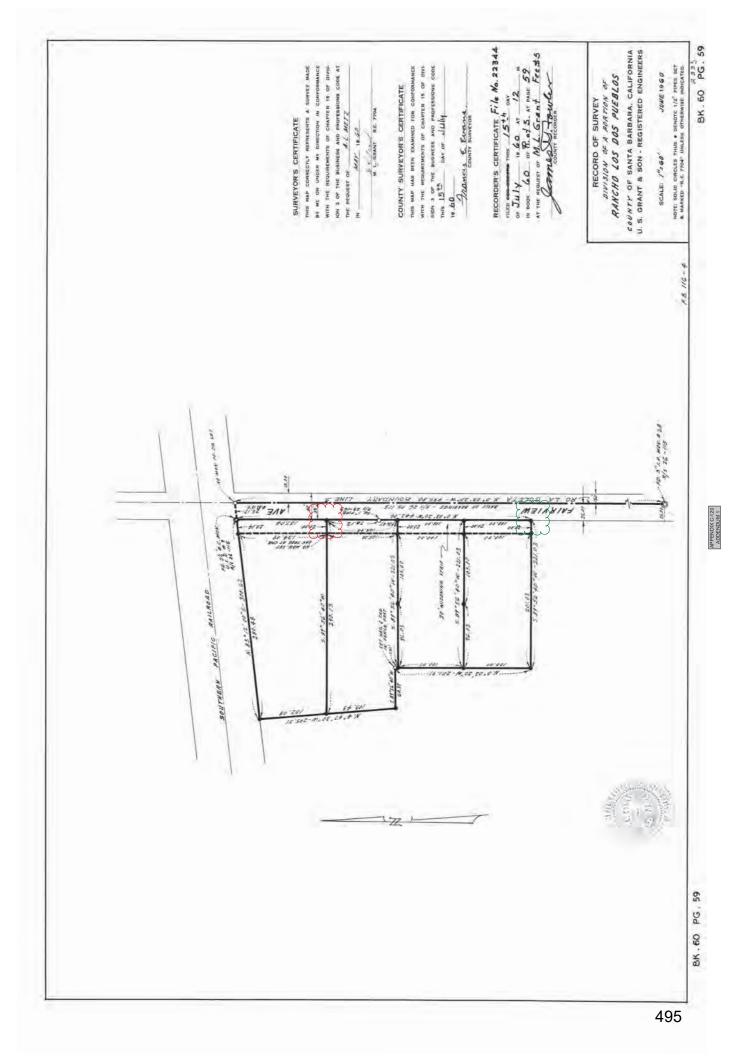


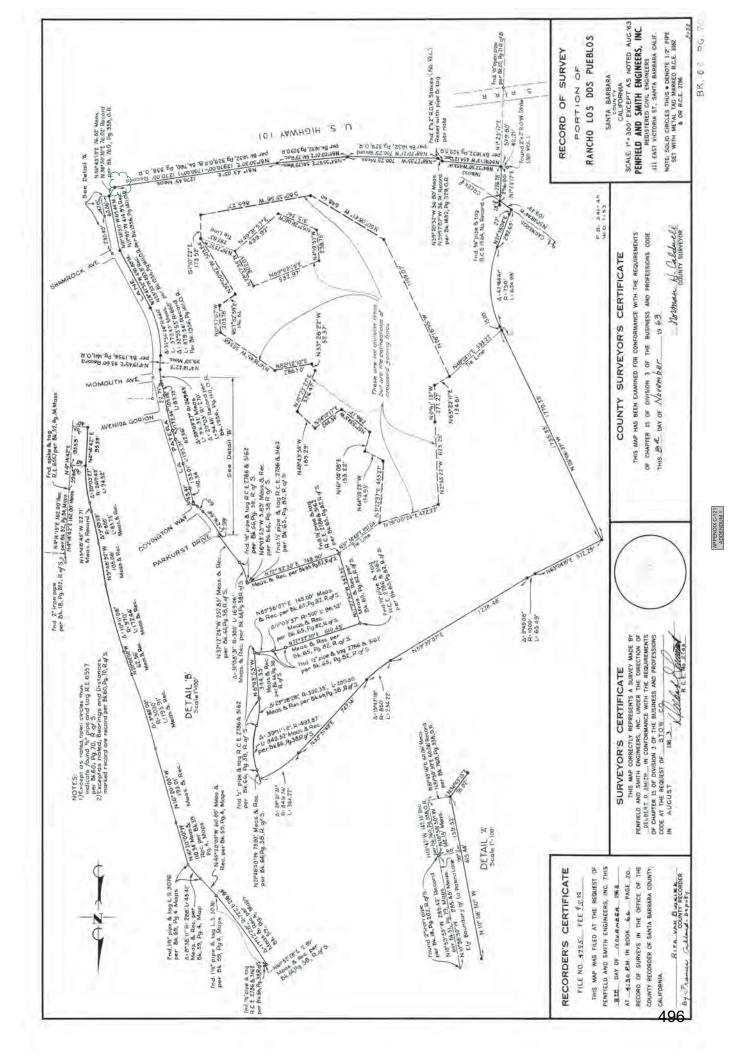


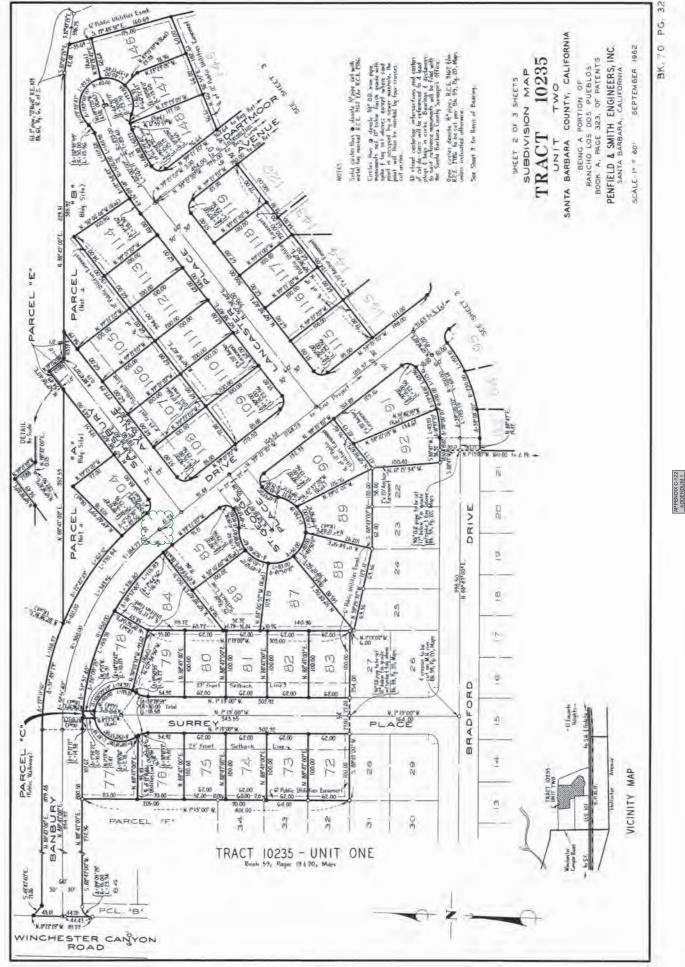






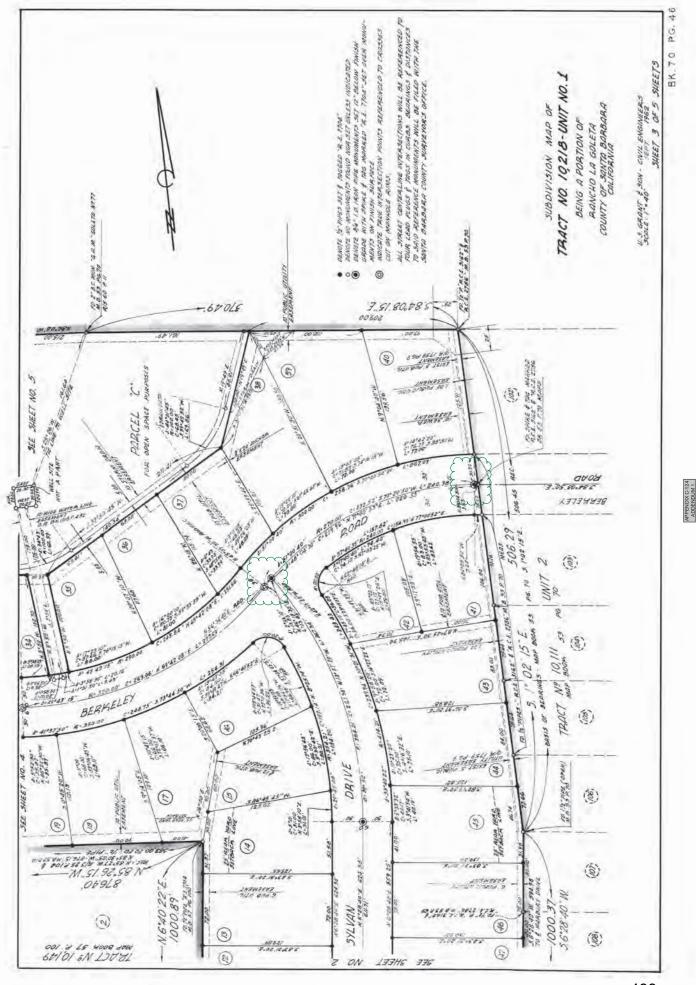


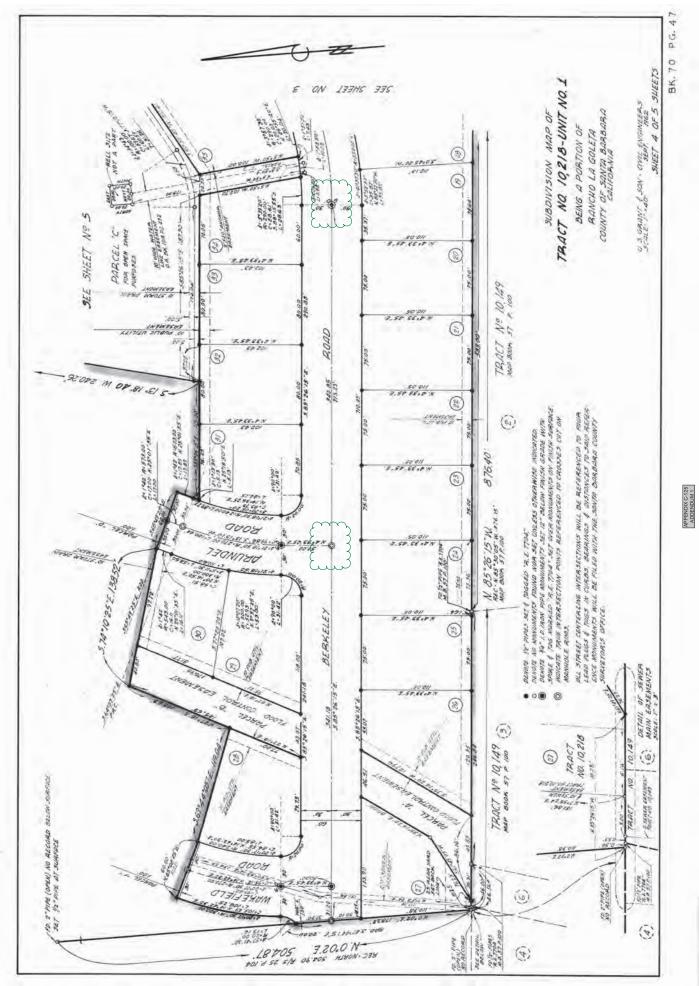


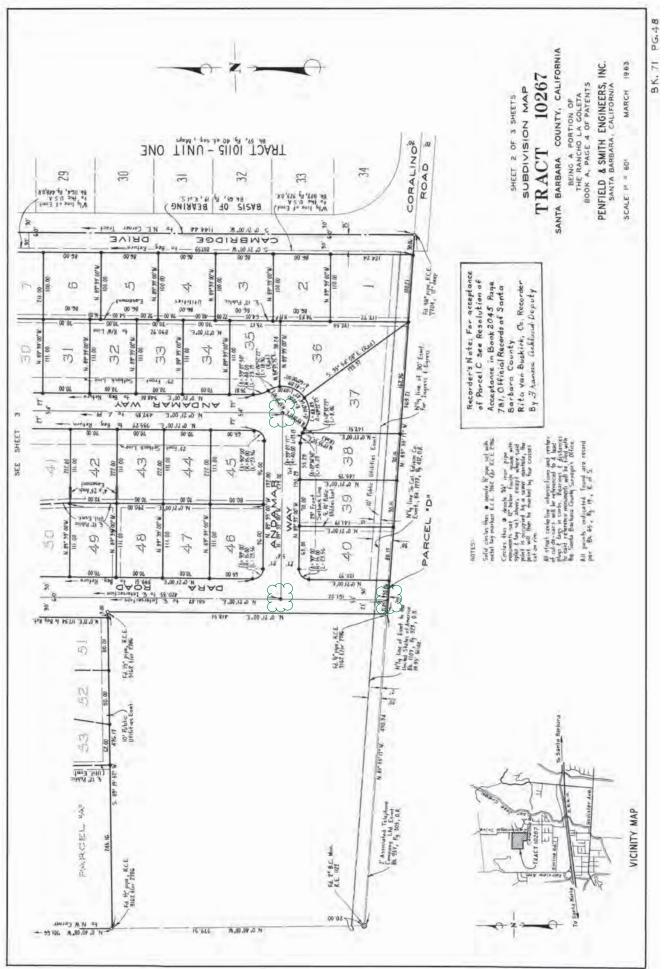




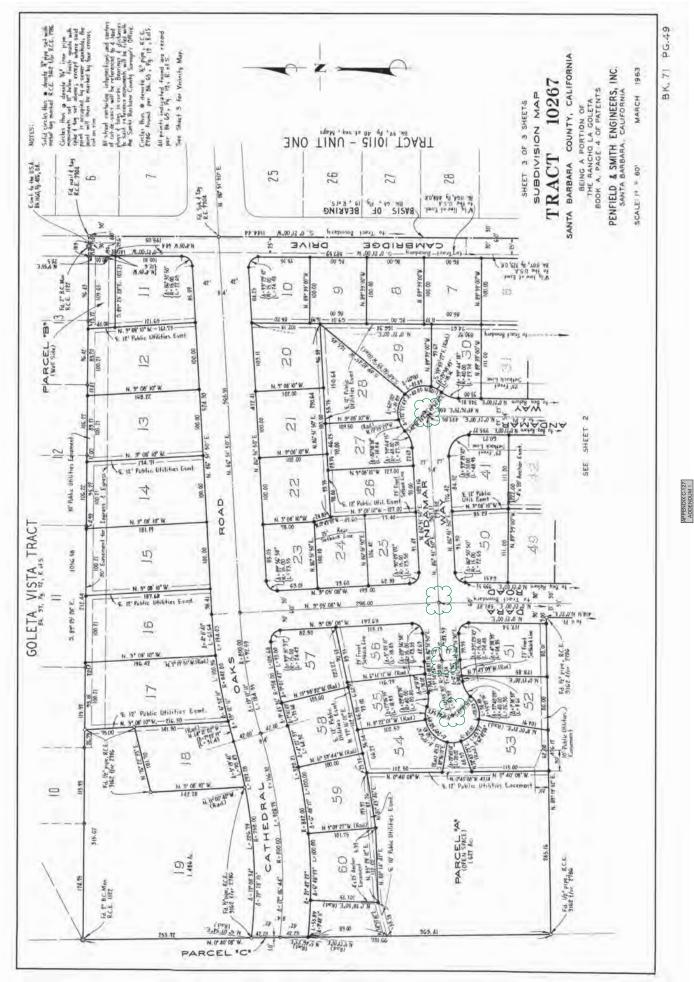
APPENDIX C-123 ADDENDUM 1



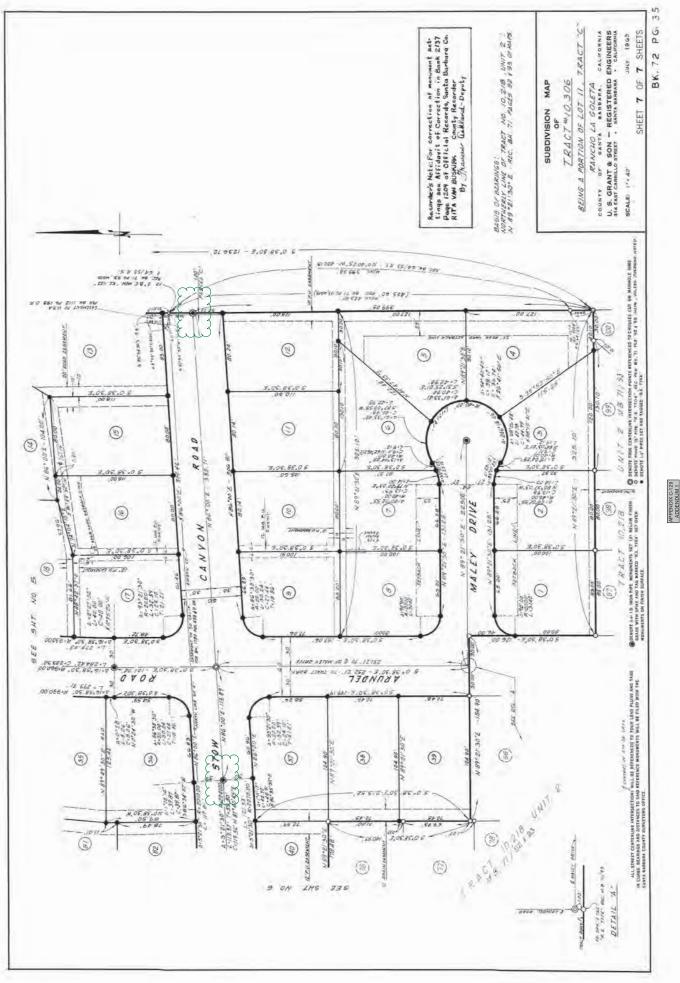


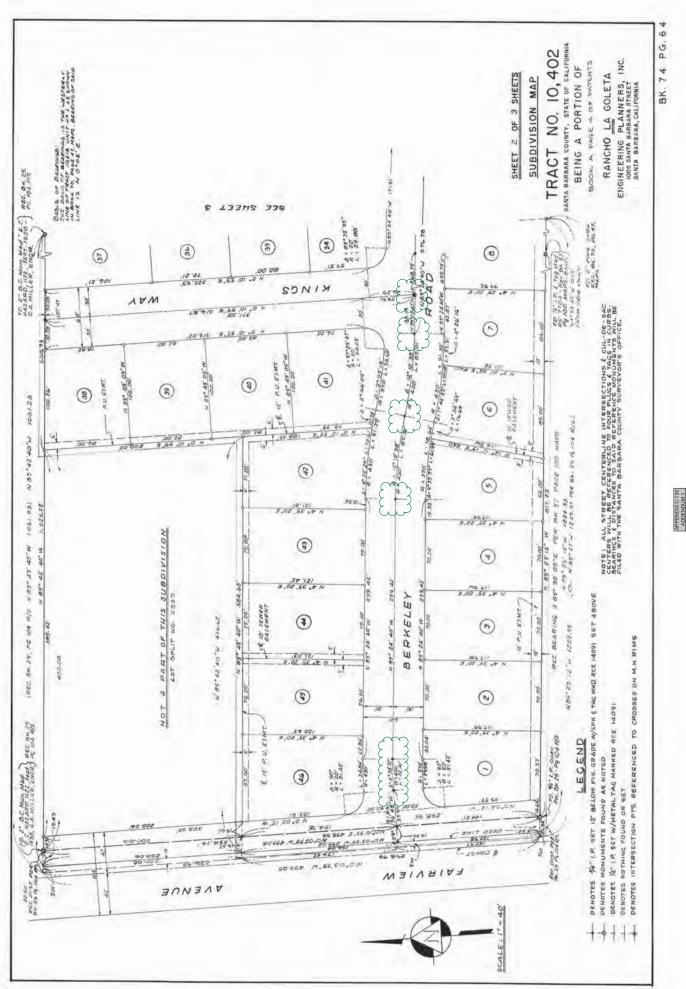


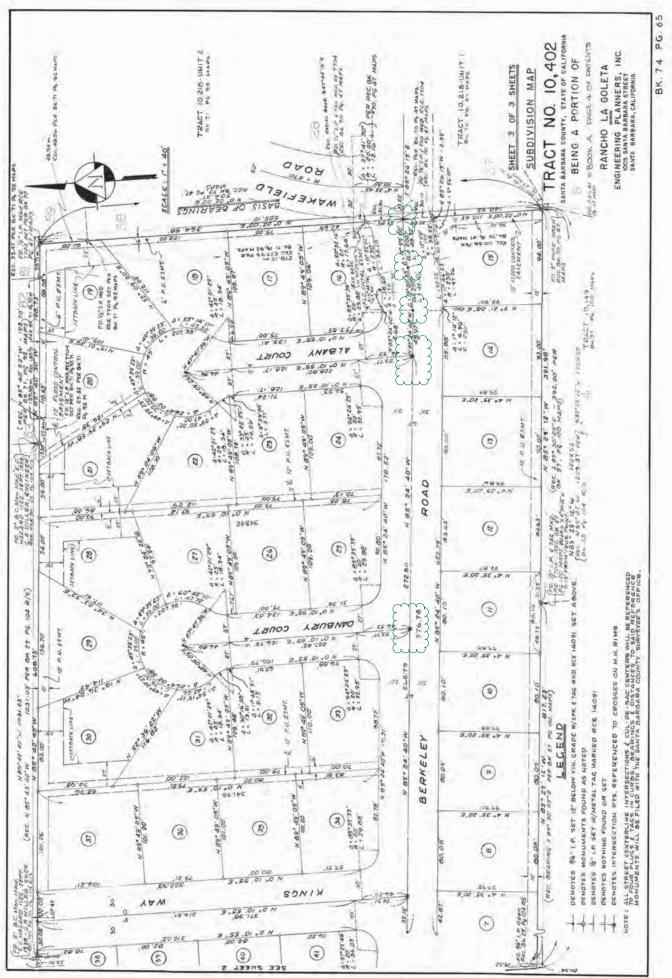
APPENDIX C-126 ADDENDUM 1



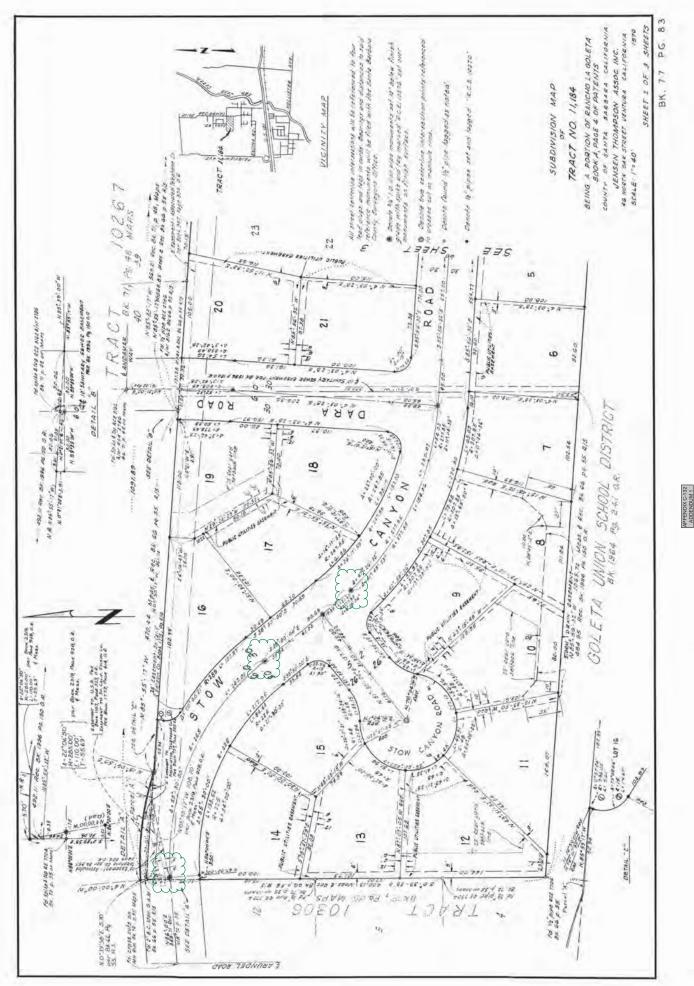


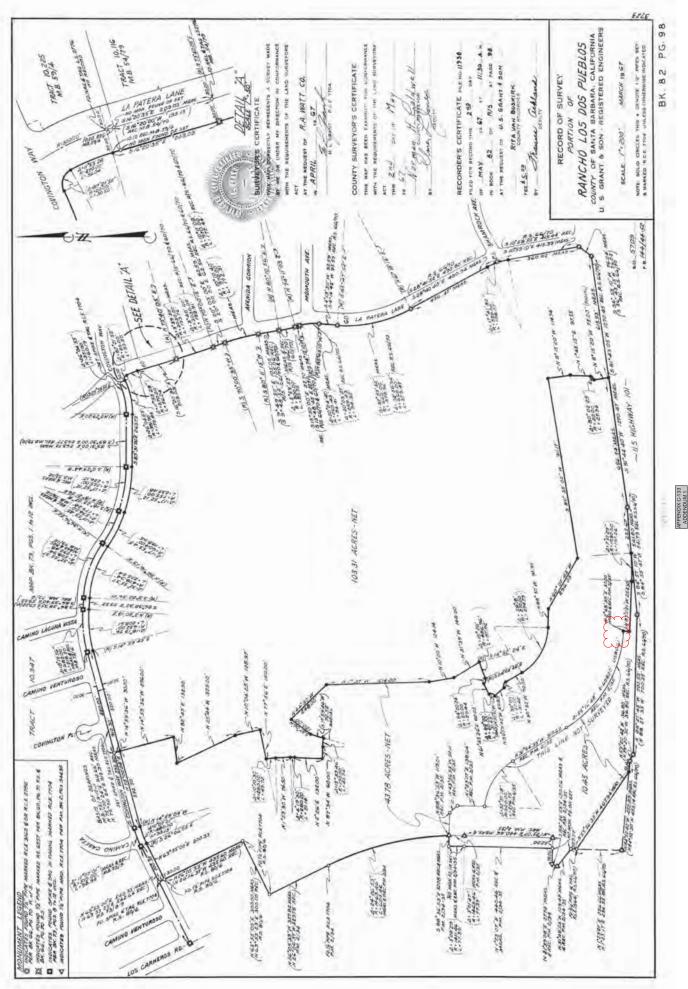


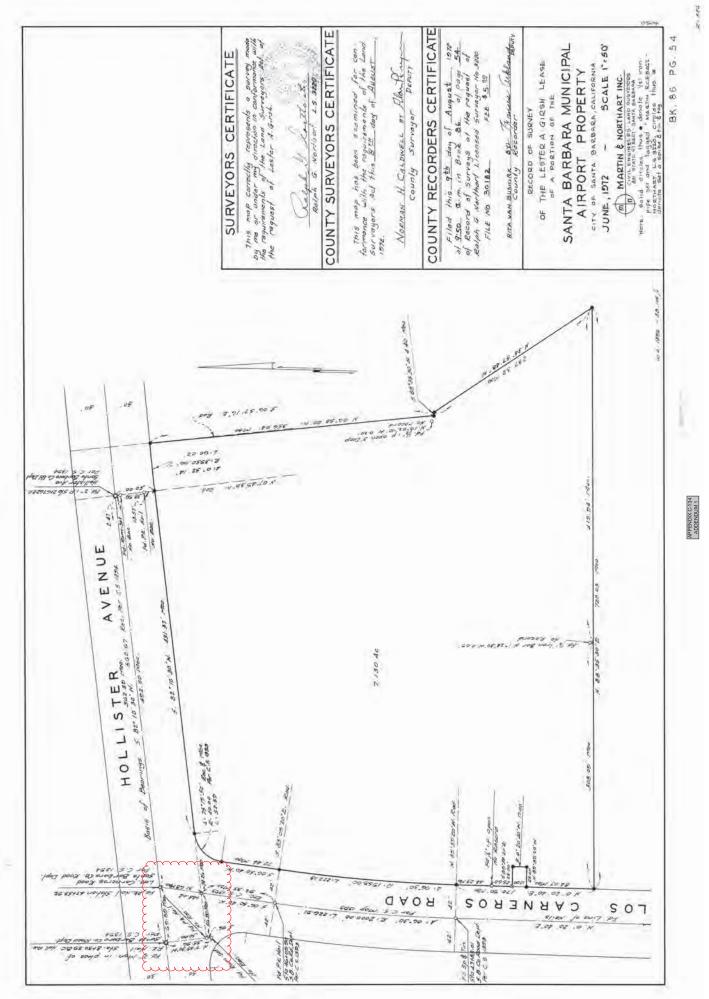


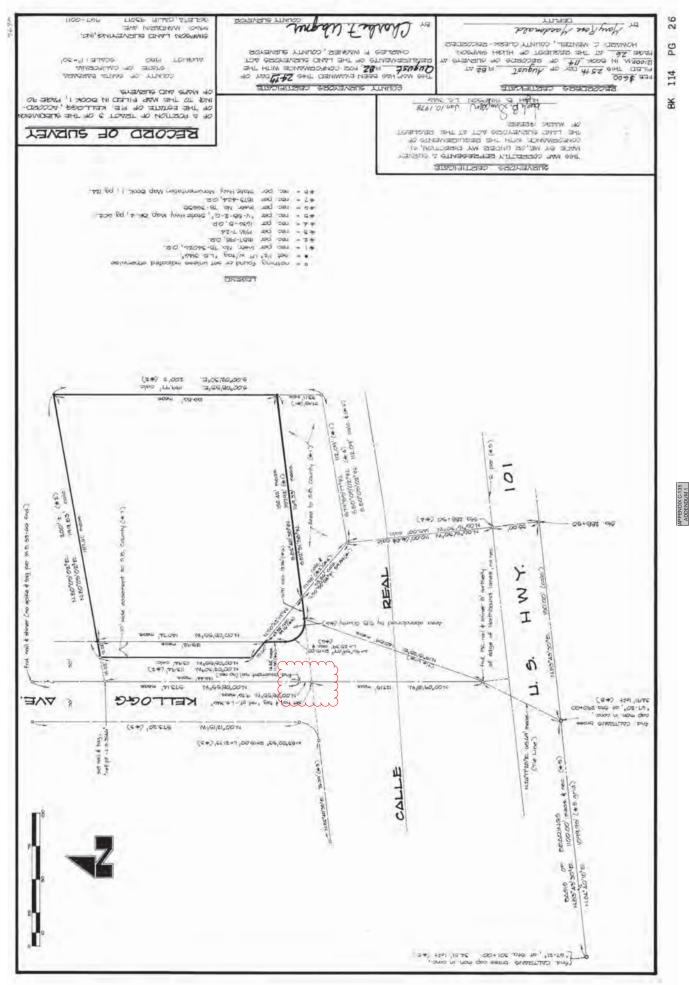


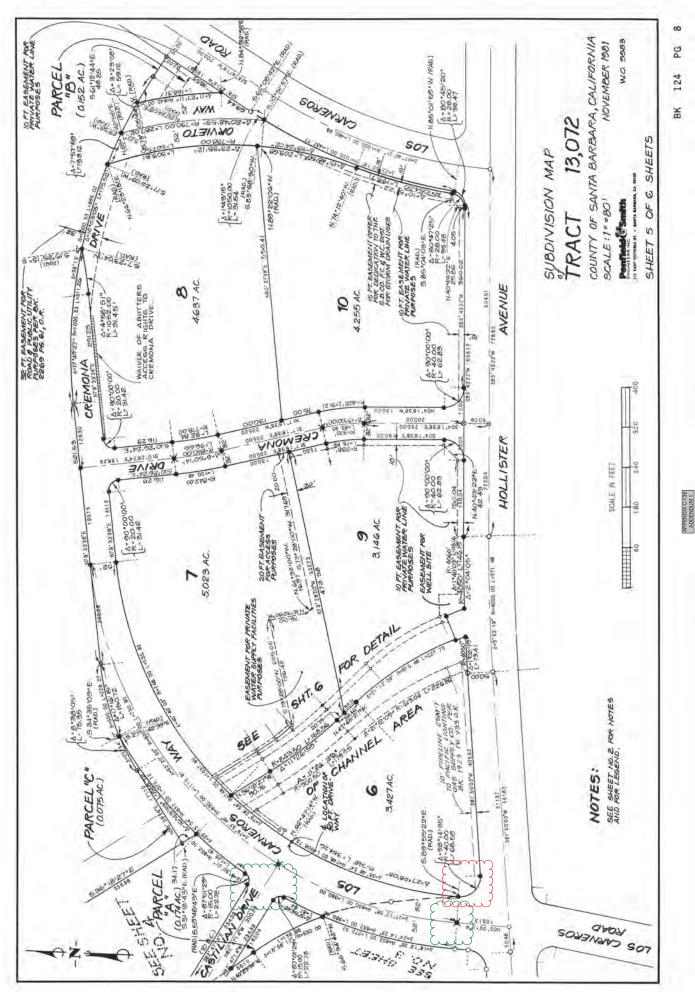
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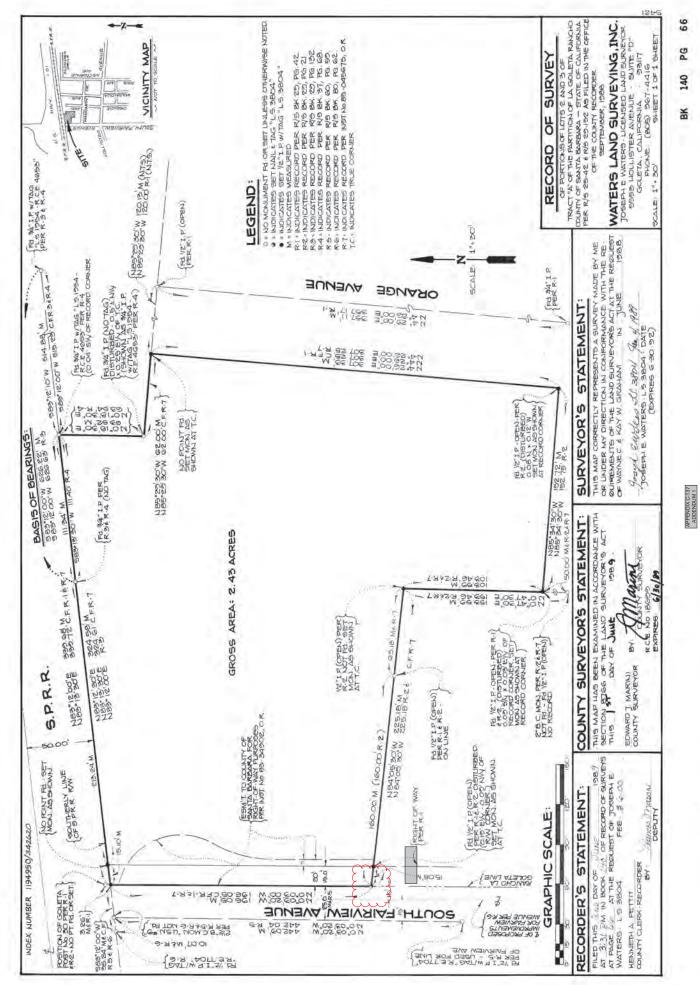


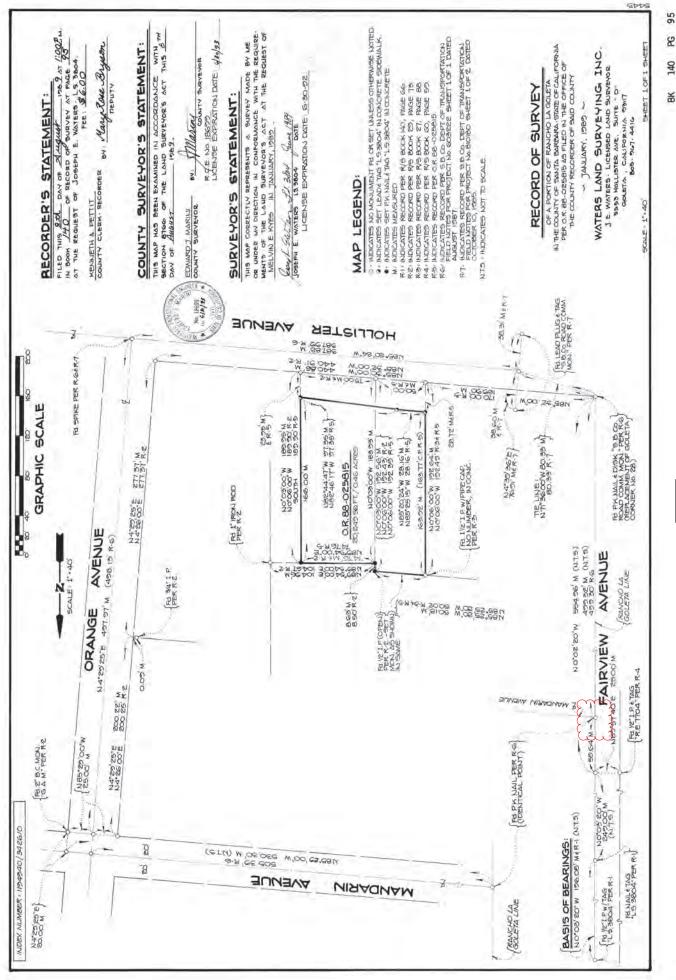






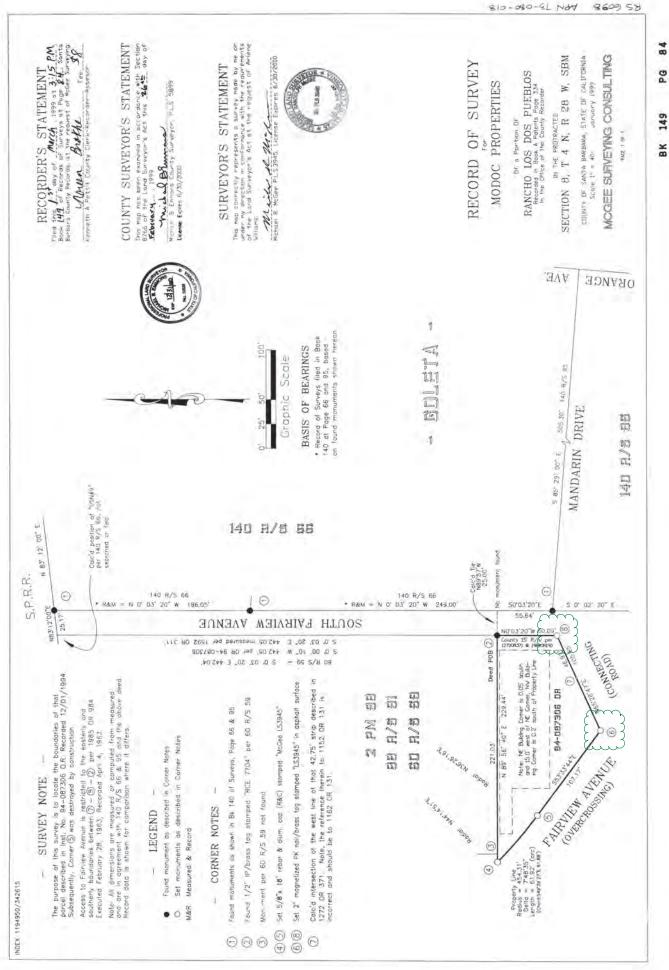




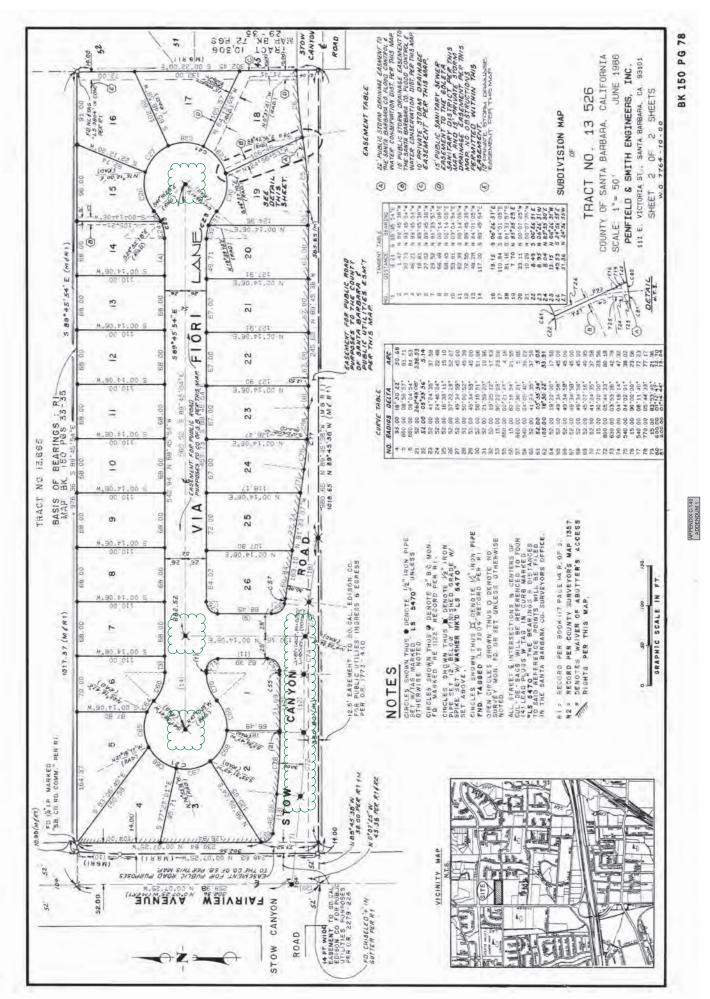


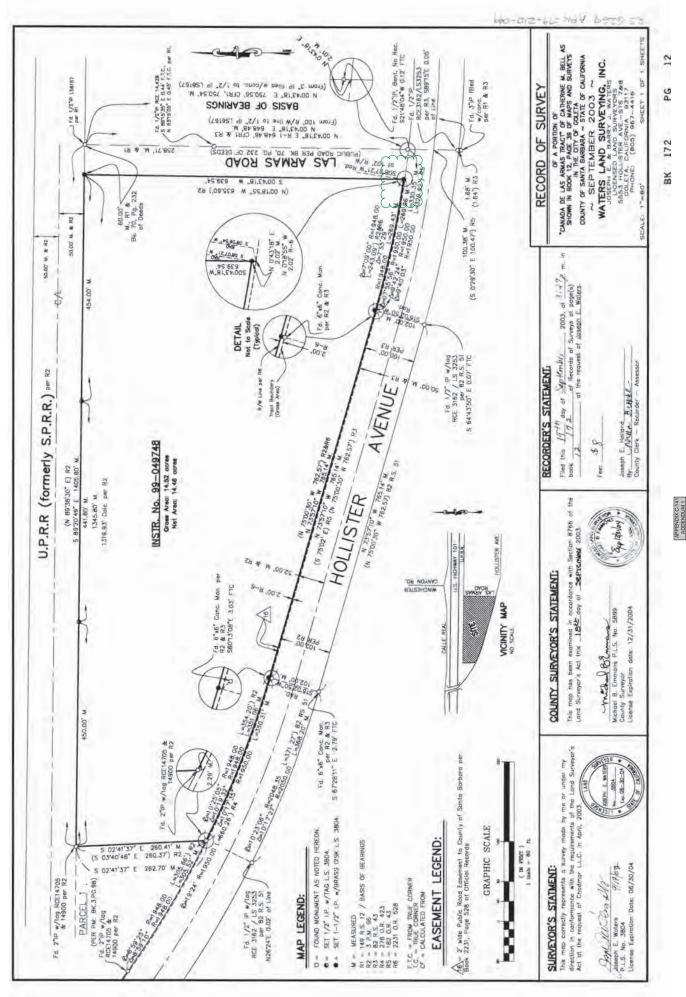
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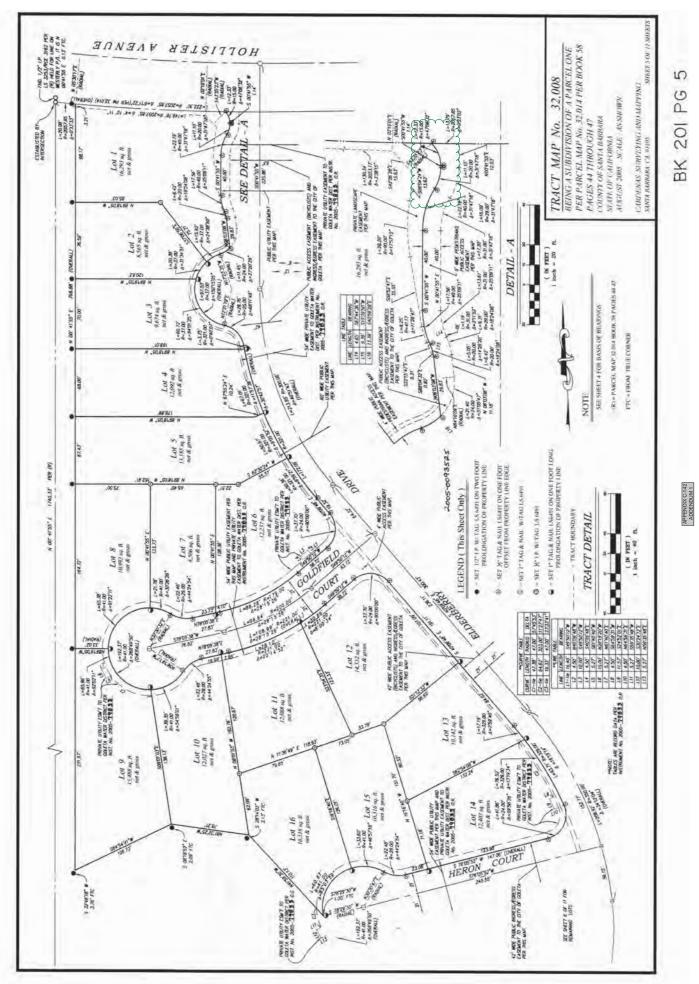
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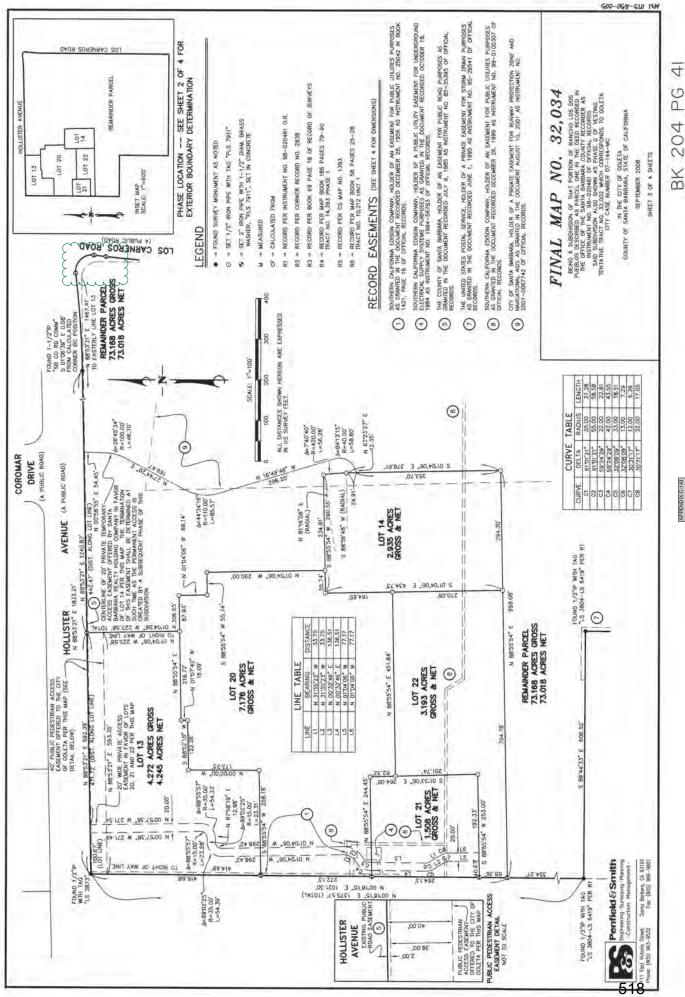


APPENDIX C-139 ADDENDUM 1







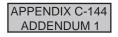


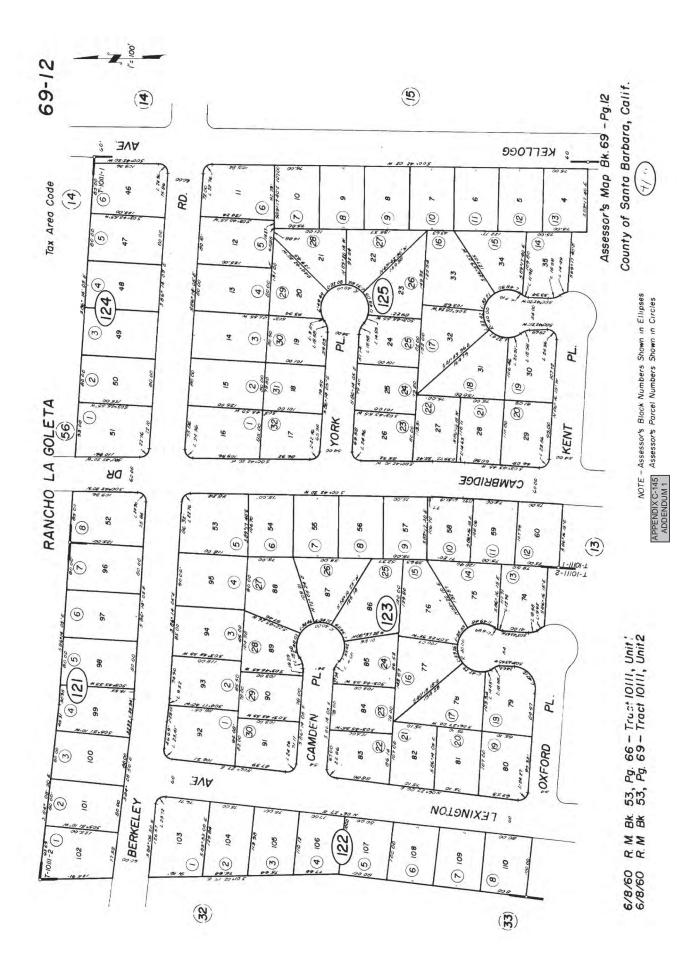
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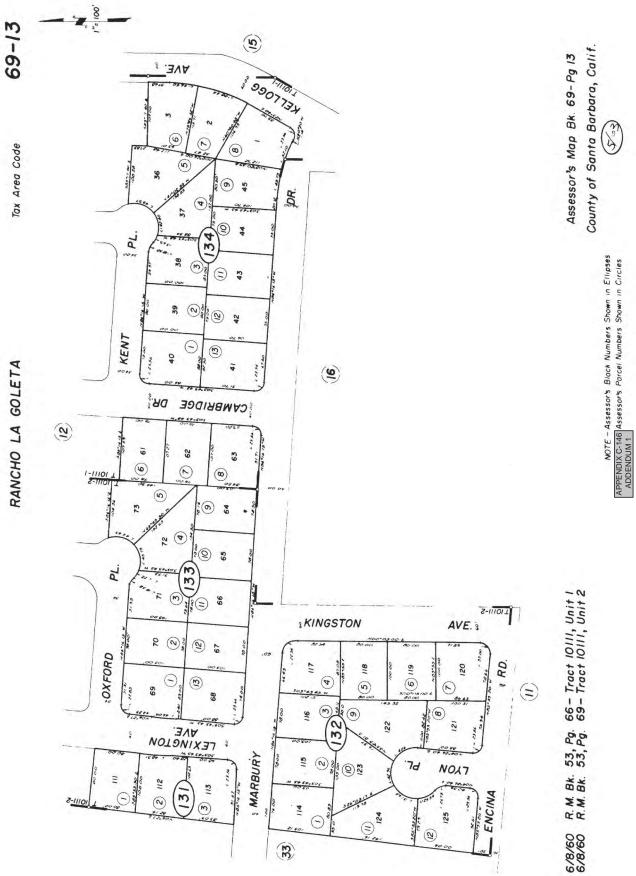
APPENDIX C-143 ADDENDUM 1

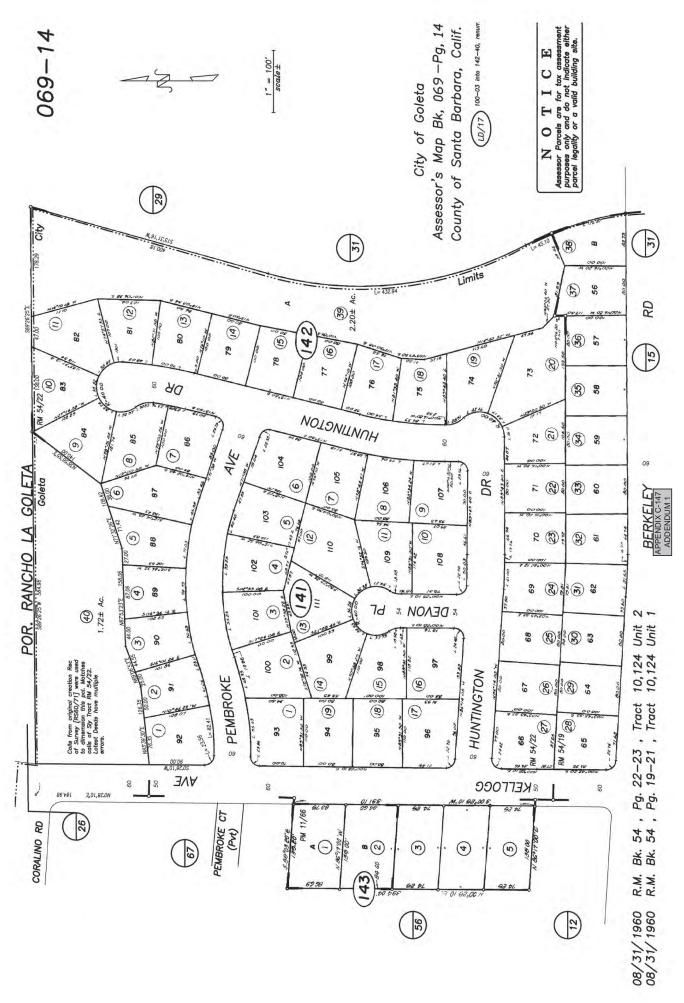


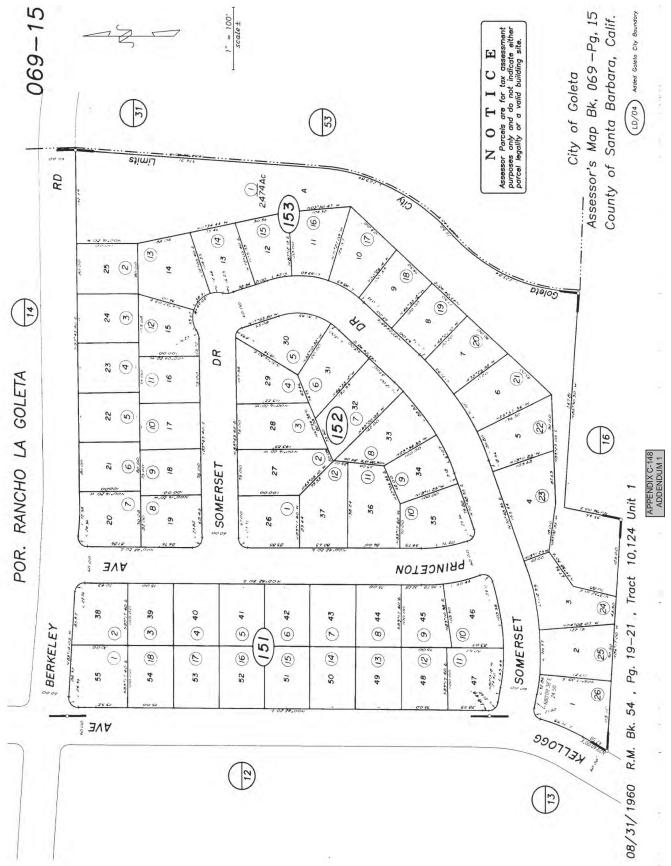
APN Maps

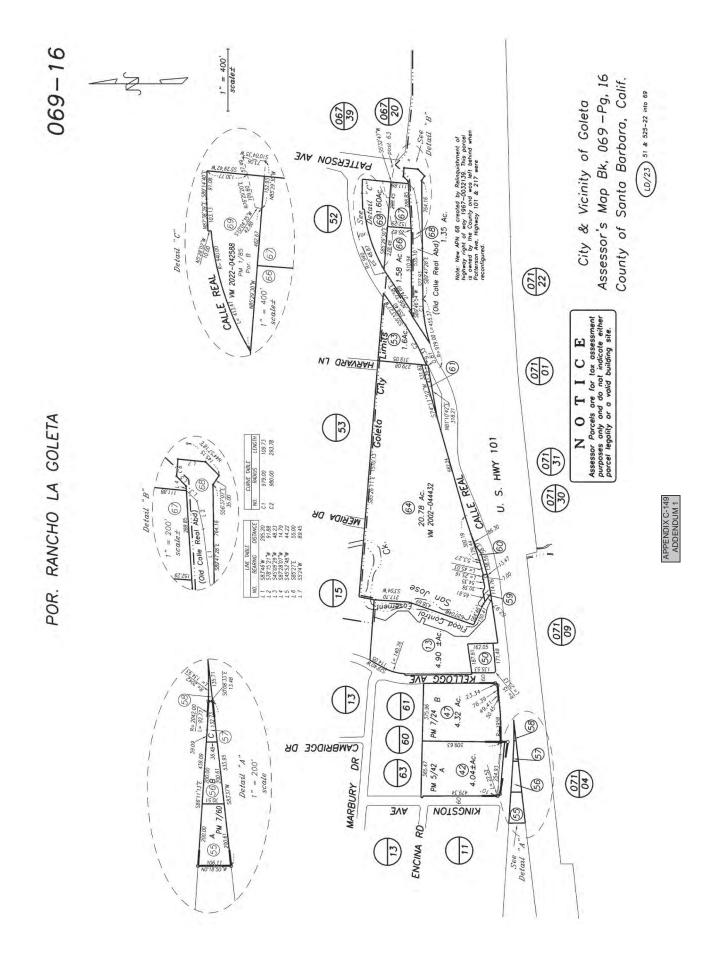


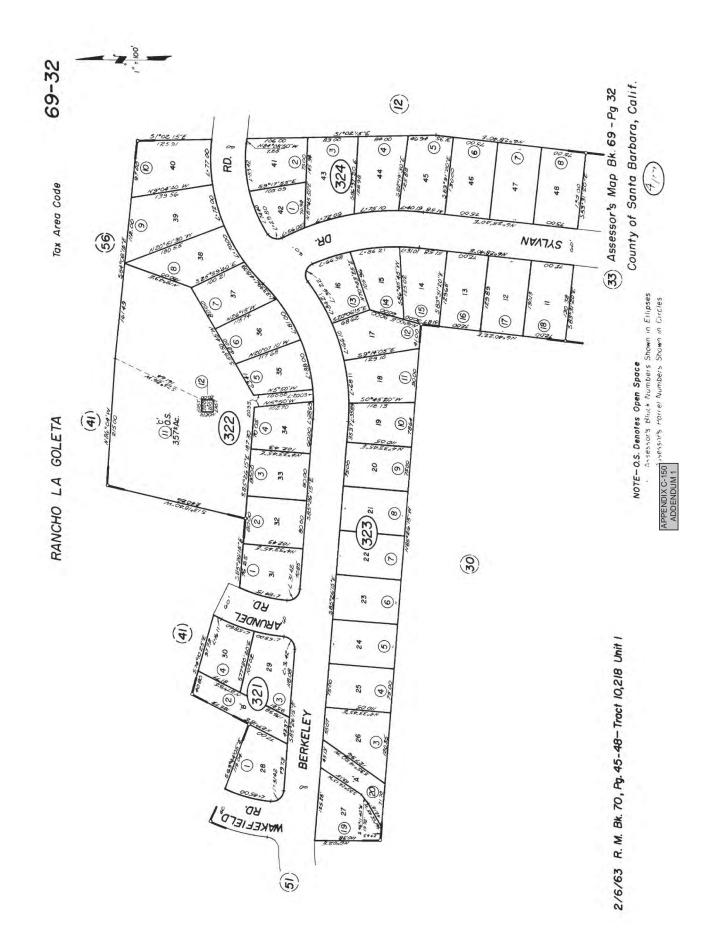


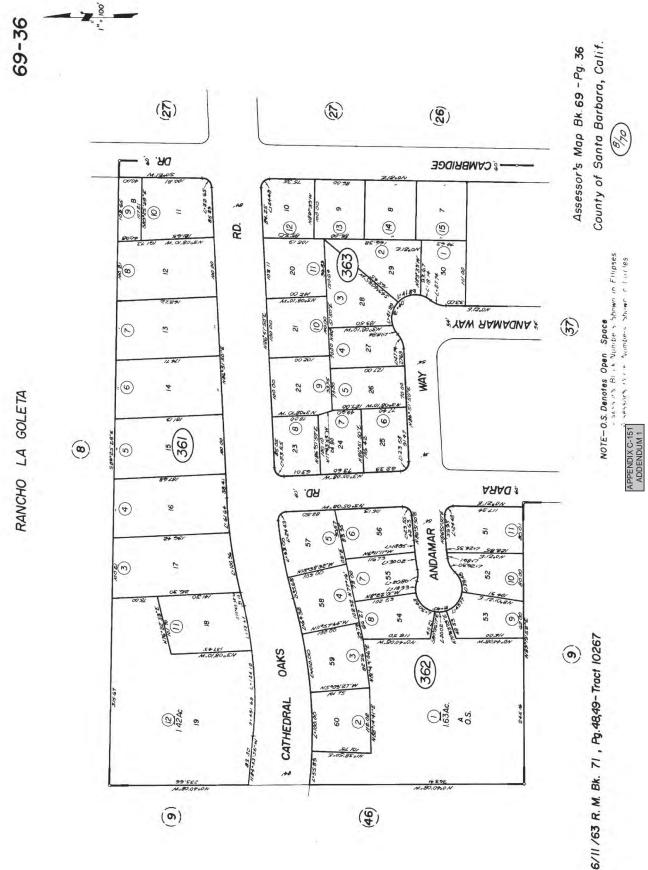




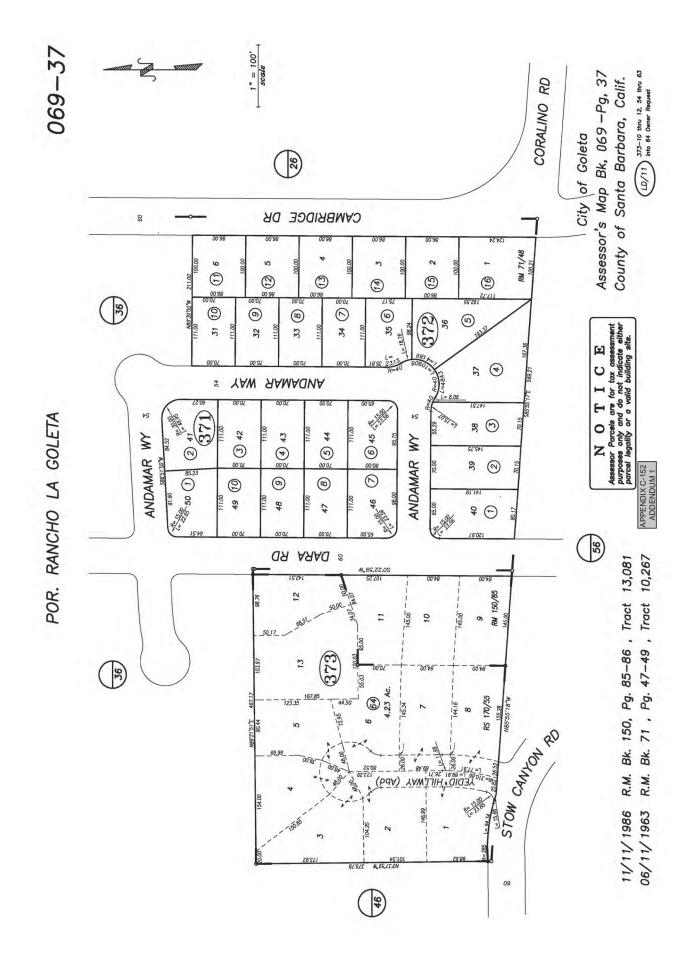


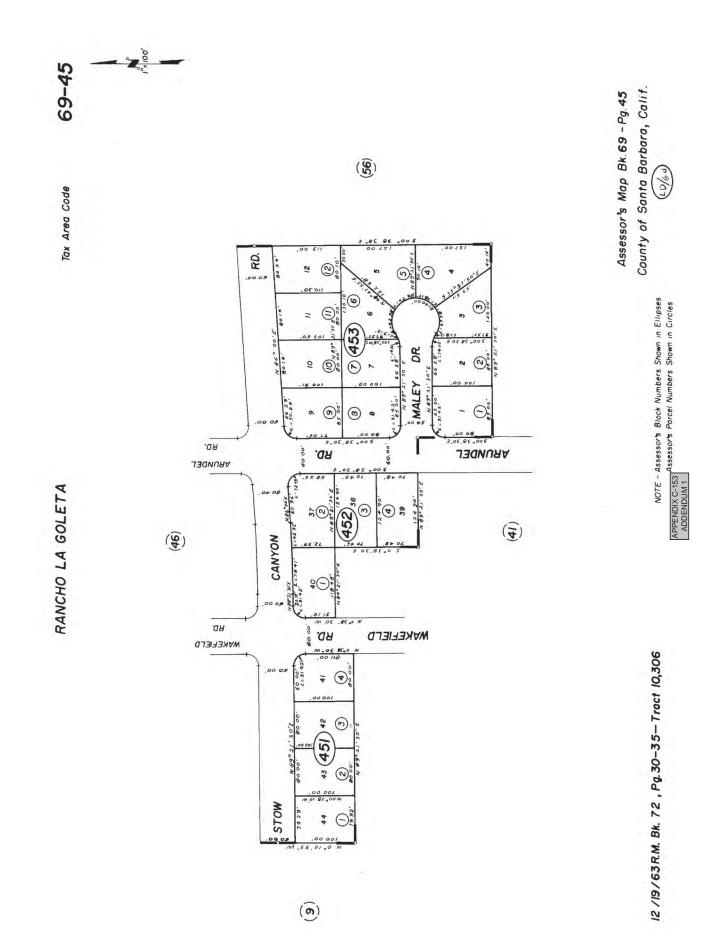


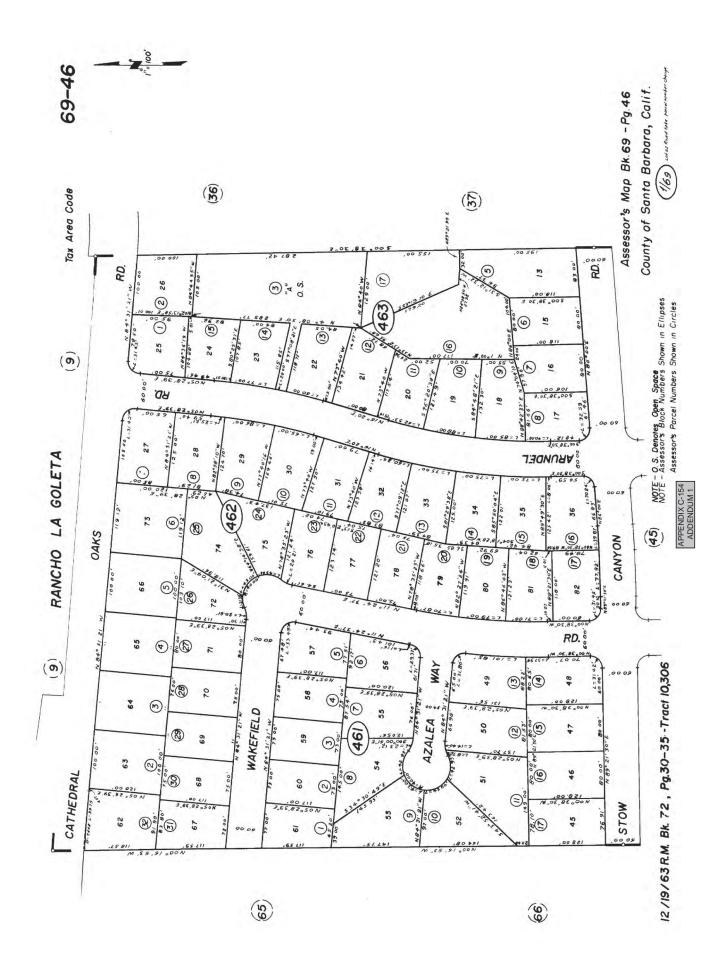


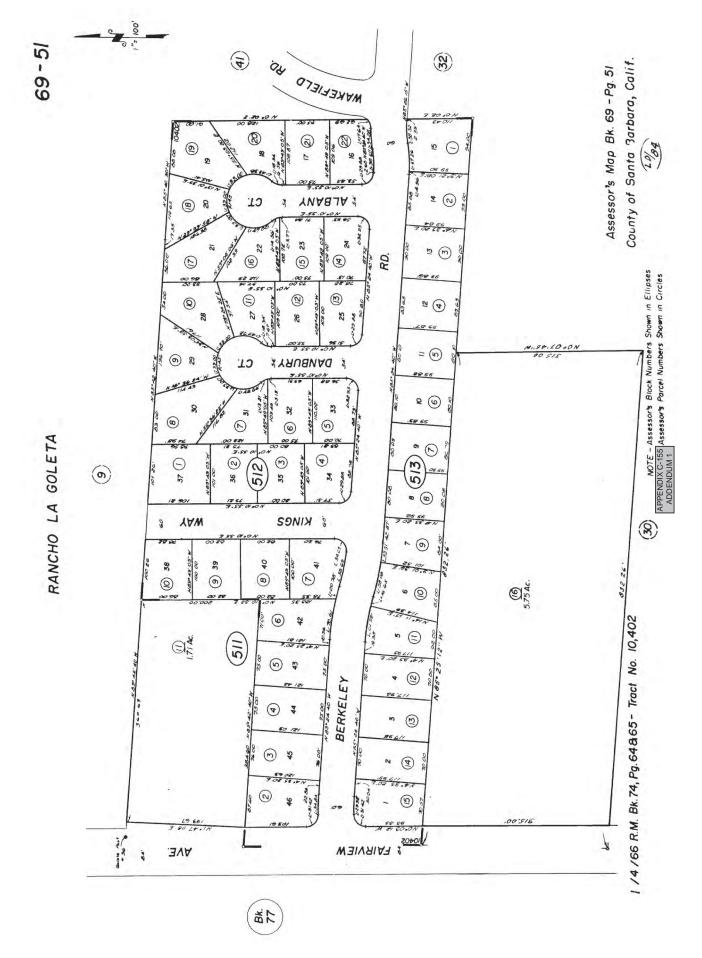


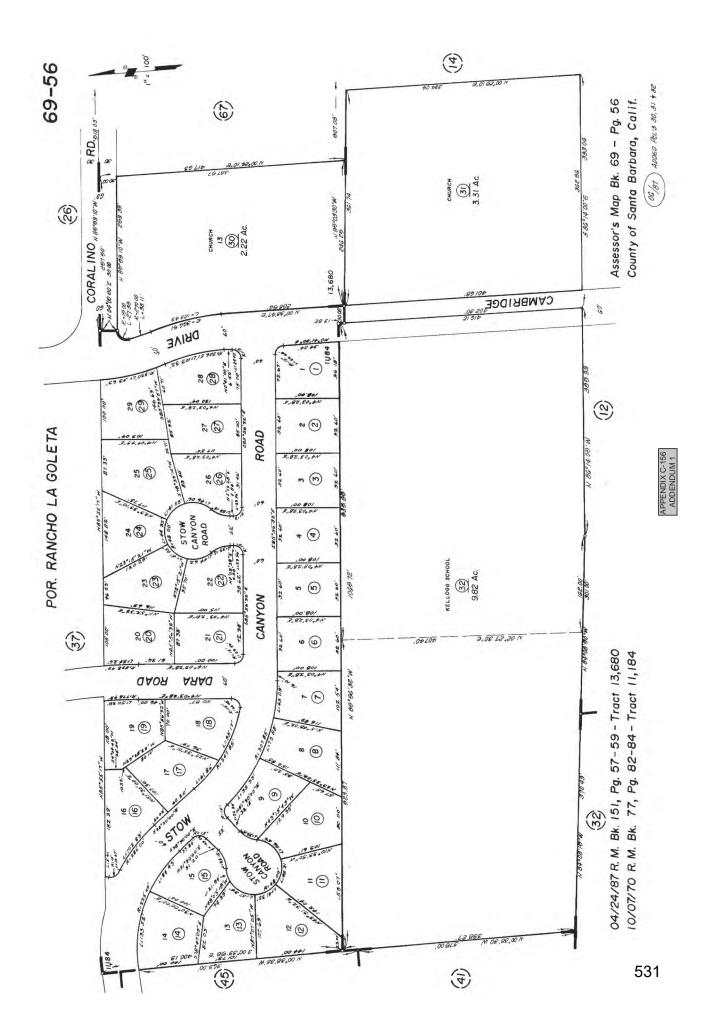
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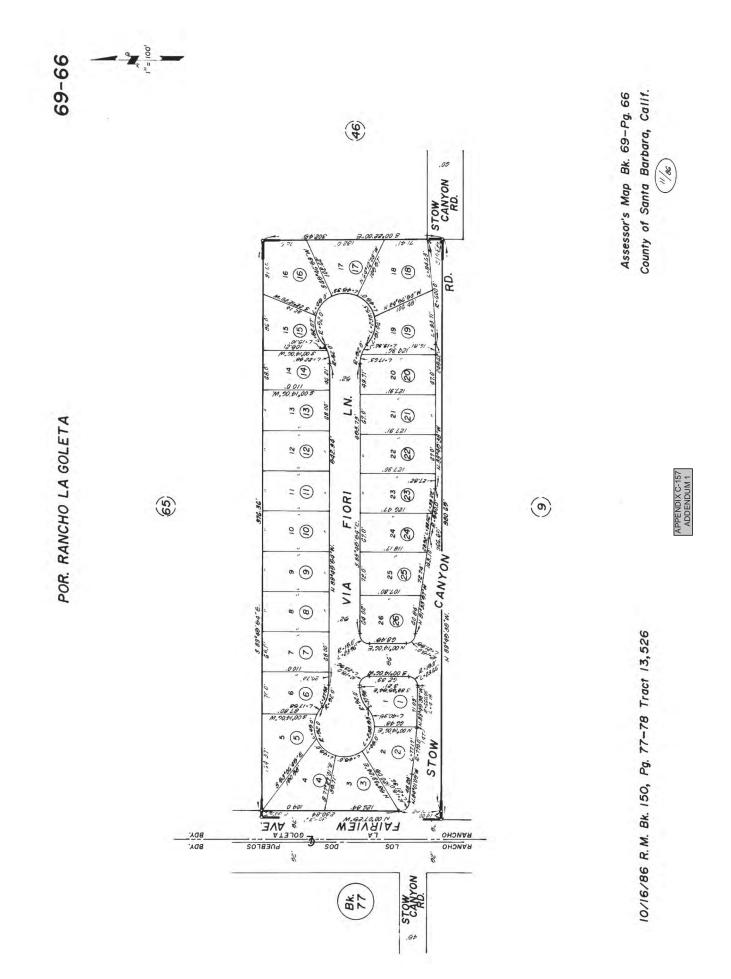


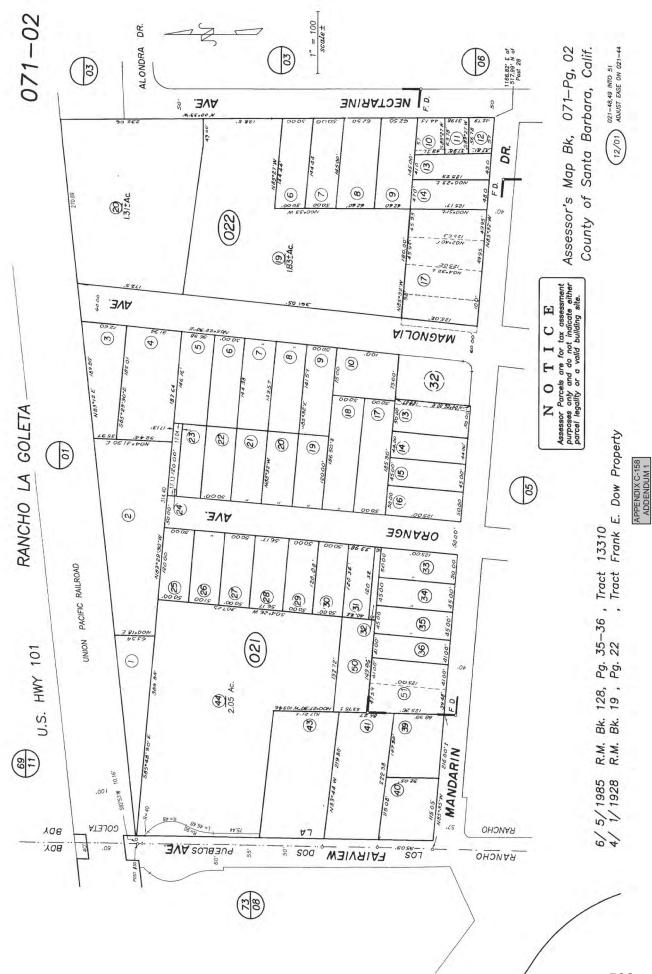


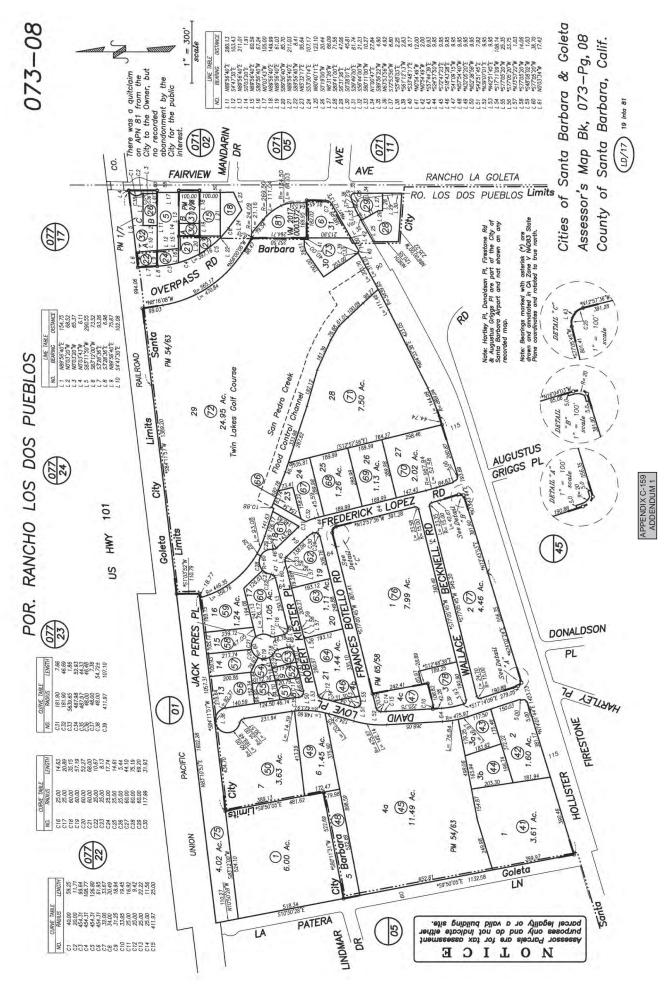


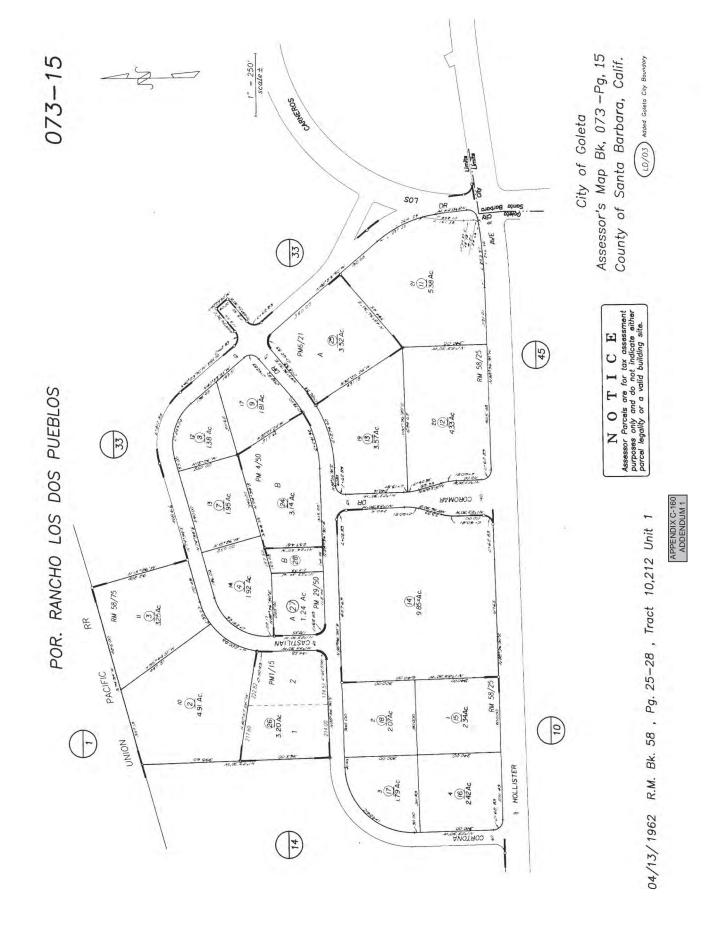


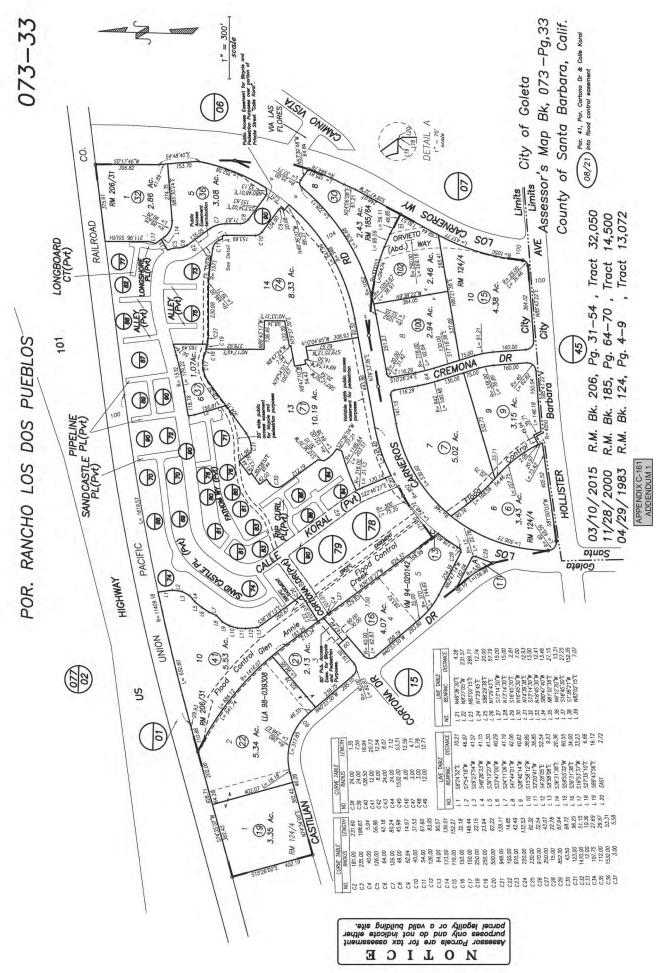


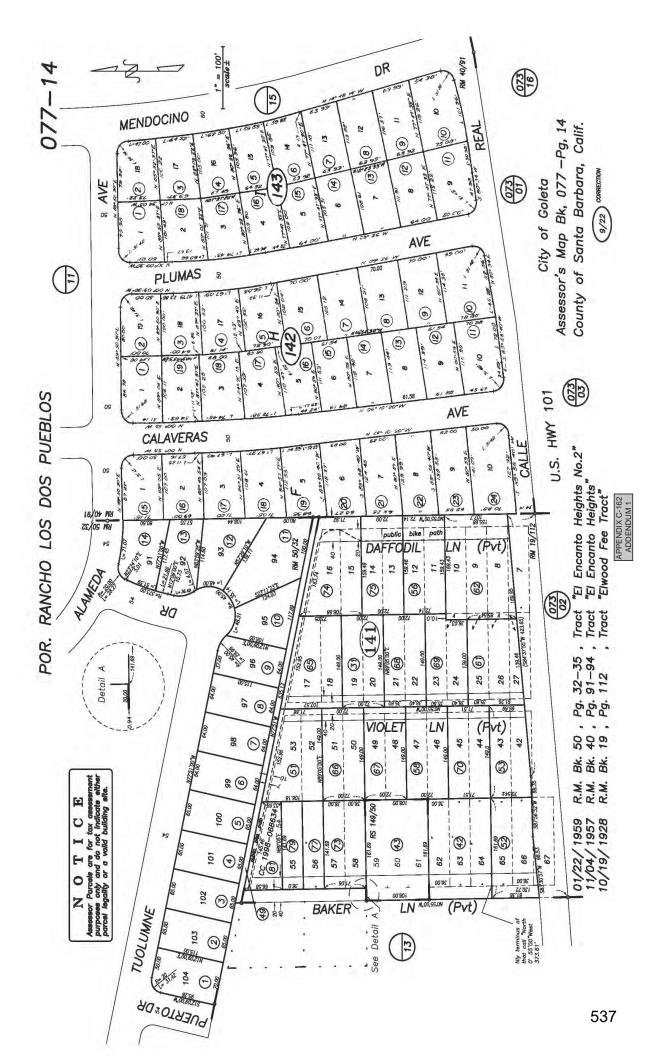


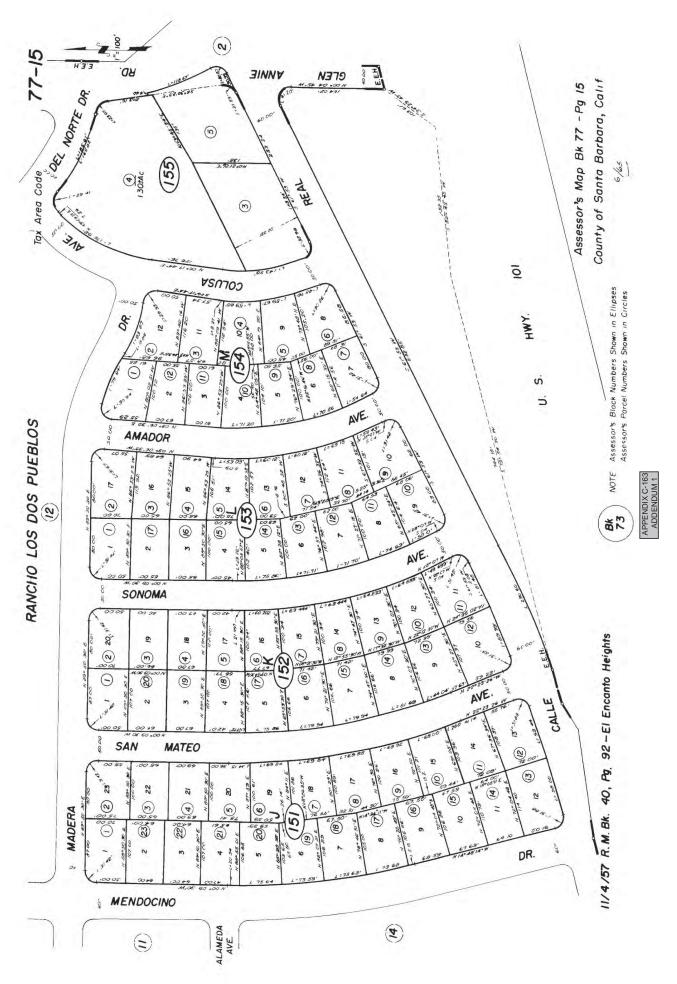


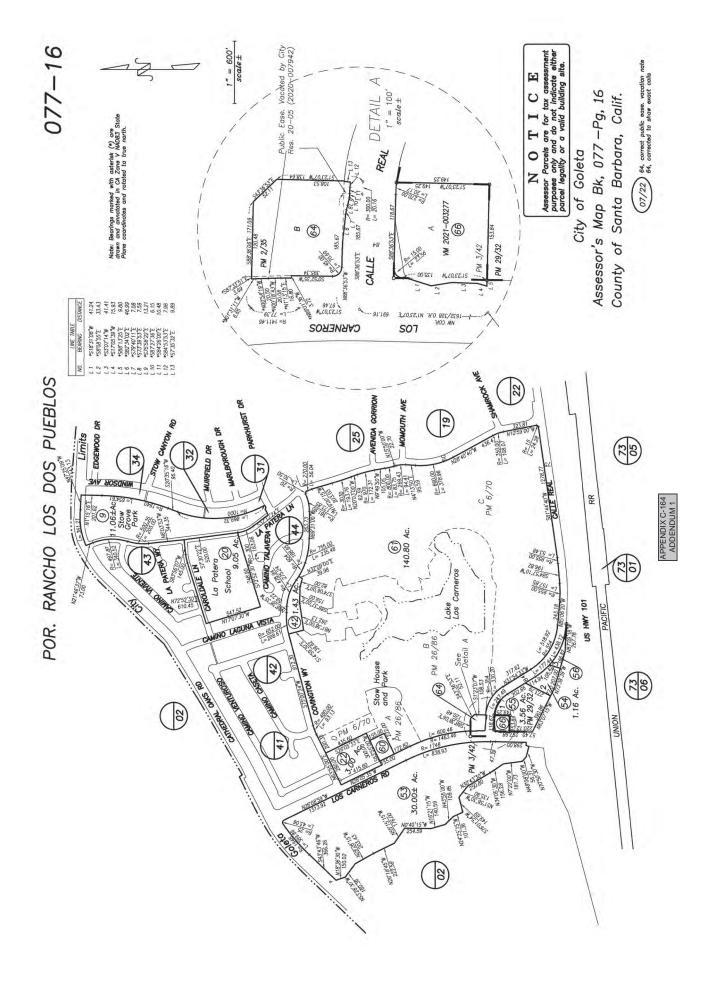


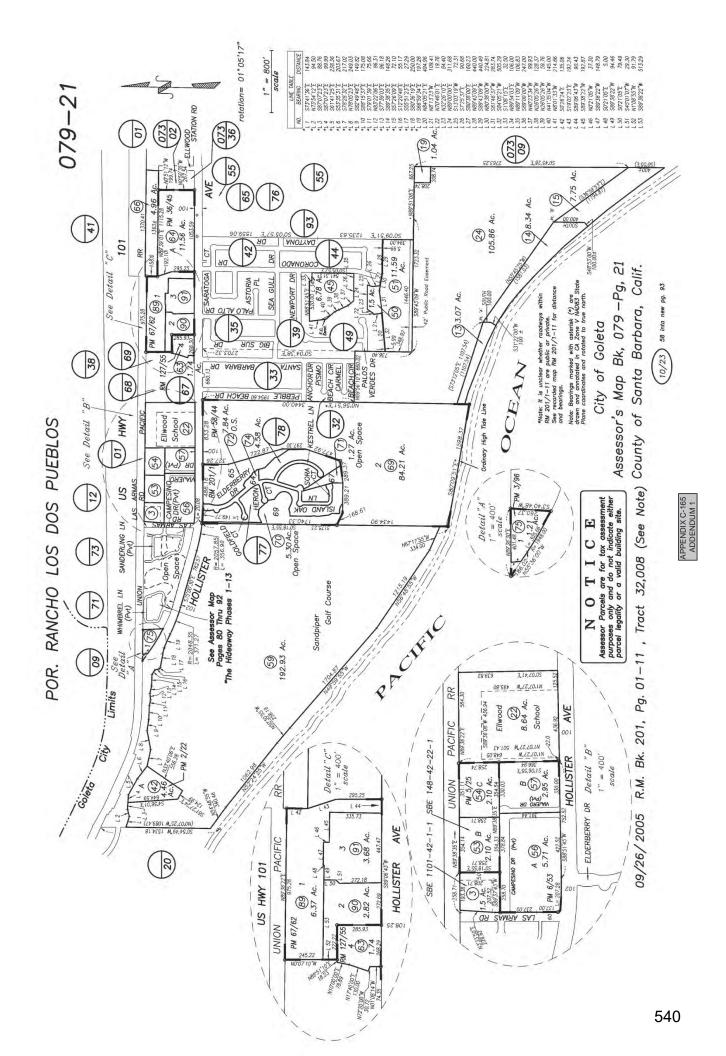


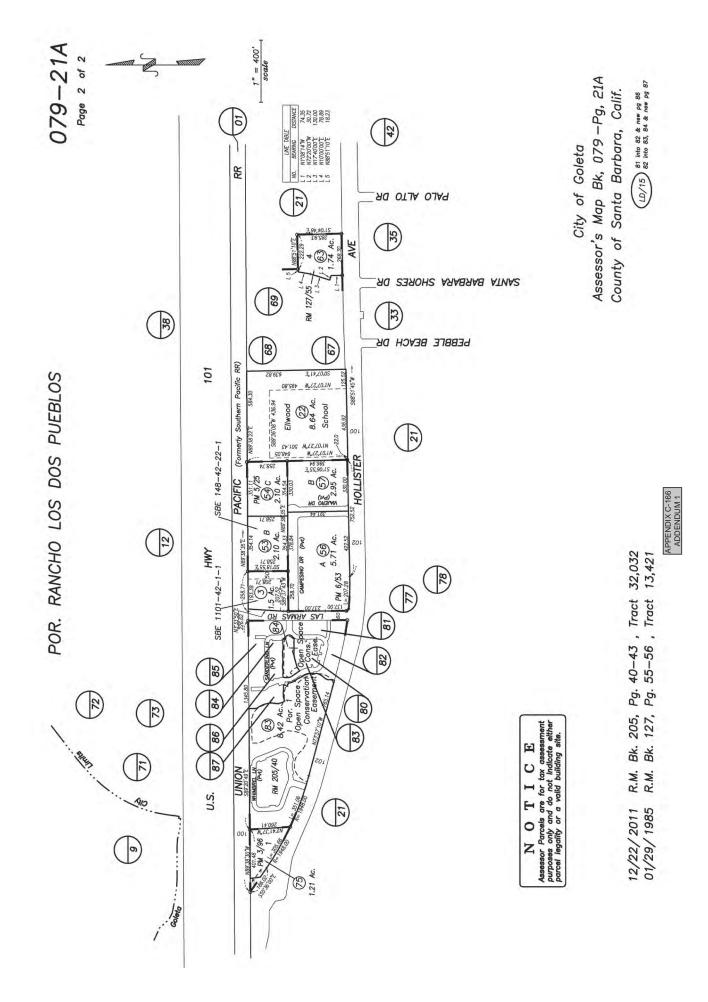


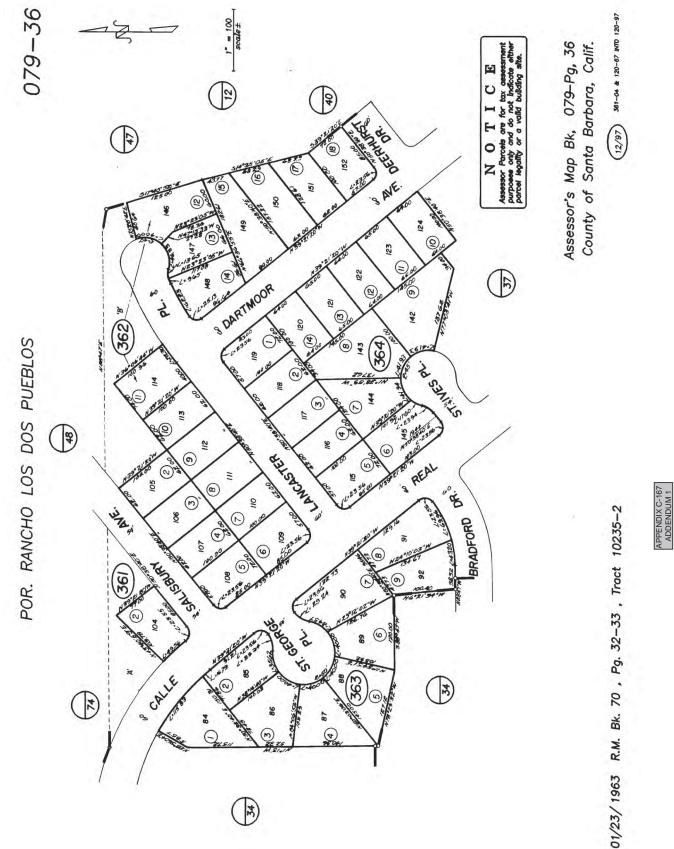


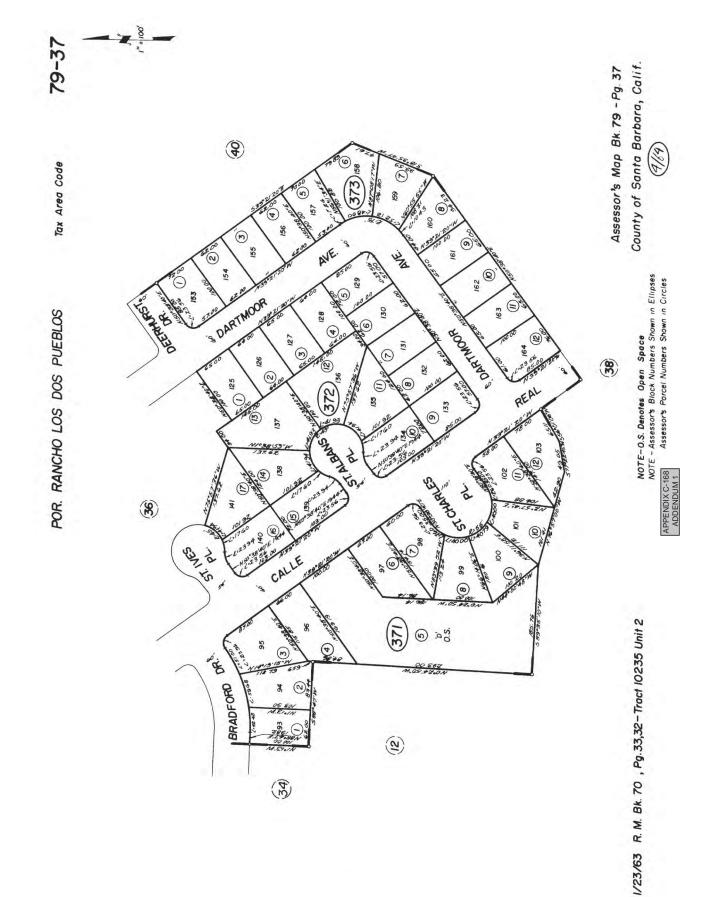


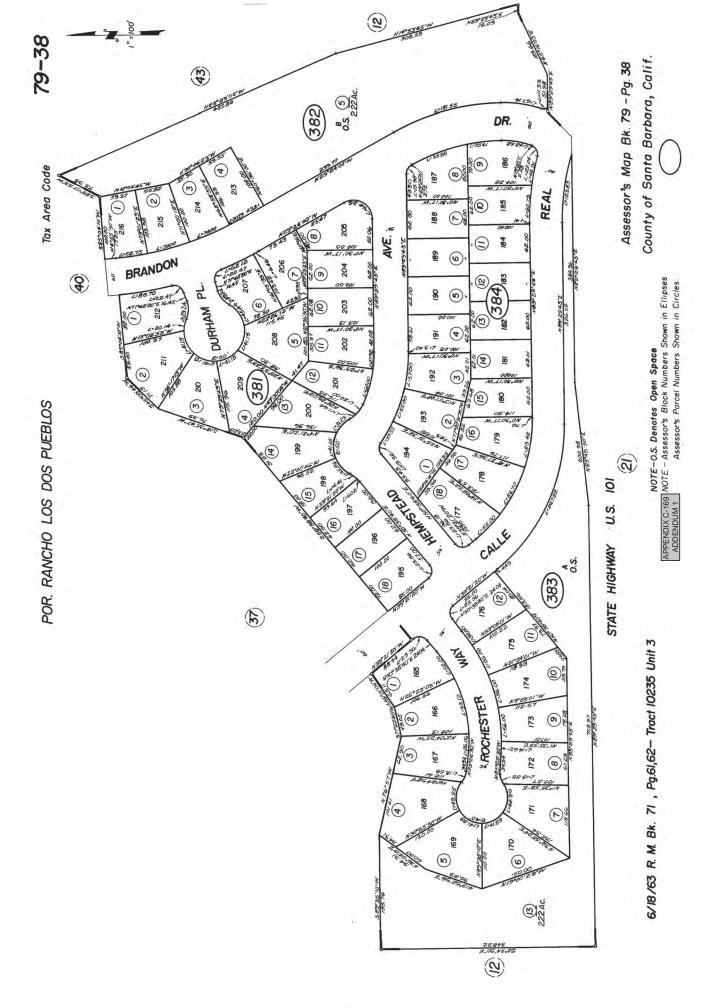












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APPENDIX D DAYTIME WORK RESTRICTIONS

FOR



MAJOR ARTERIALS	DAYTIME WORK PROHIBITED?	DAYTIME WORK CONDITIONAL?	CONSIDERATIONS	SUBJECT TO HOLIDAY MORATORIUM?
Calle Real	prohibited on segments	Yes	Segment traffic counts, business and residential impacts. Prohibited from Vega Drive to Kellogg Avenue, and from Glen Annie to Colusa. School related time restrictions from Colusa to City limits	Business District (Vega to Kellogg) - Yes
Cathedral Oaks Road		Yes	Segment traffic counts, school traffic, residential impacts.	
Fairview Avenue	prohibited on segments	Yes	Segment traffic counts, business and residential impacts. Prohibited from 200 feet south of Hollister to Berkeley Road	
Glenn Annie Road		Yes	Some work allowed north of Calle Real. School traffic	
Hollister Avenue	Yes		Prohibition from Pacific Oaks to Patterson Avenue	Yes
Los Cameros Road		Yes	Segment traffic counts.	
Patterson Avenue	prohibited on segments	Yes	Segment traffic counts. Prohibited from Overpass Road to Calle Real	
Storke Road	prohibited on segments	Yes	Segment traffic counts. Prohibited from Santa Felicia to Calle Real	Yes

Operations that may be allowed on arterials with prohibitions on a case by case basis: Certain moving operations, operations of 30 minutes or less, operations where night work could compromise safely.

work that does not take a lane, work specifically authorized under either an annual blanket or individual encroachment permit, long term projects where traffic control cannot be removed daily and still

Junio nr riahrie ran the beam 30 10 1 è renaire to utilities fraffic control drain maintain public safety. Em

MAJOR INTERSECTIONS	DAYTIME WORK PROHIBITED?	PROHIBITED? CONDITIONAL?	DAYTIME WORK CONDITIONAL? CONSIDERATIONS	SUBJECT TO HOLIDAY MORATORIUM?
Cathedral Oaks/Calle Real		Yes		N
Hollister Ave and Cathedral Oaks Rd. 1		Yes	Traffic volumes, time of day, type of work, impacts to residents	Na
Hollister Ave./Entrance Rd.		Yes	Traffic volumes, time of day, type of work, impacts to residents	No
Hollister Ave./Canon Green Dr.		Yes	Traffic volumes. Itme of day, type of work, impacts to residents	No

APPENDIX D-1 ADDENDUM 1

547

MAJOR ARTERIALS	DAYTIME WORK PROHIBITED?	DAYTIME WORK CONDITIONAL?	CONSIDERATIONS	SUBJECT TO HOLIDAY MORATORIUM?
Hollister Ave./Pacific Oaks Rd.		Yes	If work is predominantly on Pacific Oaks Road	Yes
Hollister Ave.Market Place Dr.	Yes			Yes
Hollister Ave./Storke Rd.	Yes			Yes
Storke Rd./Market Place Dr.	Yes			Yes
Storke Rd./Phelps Rd.		Yes	Traffic volumes, time of day, type of work	No
Cathedral Oaks Rd./Glen Annie Rd.		Yes	Traffic volumes, time of day, type of work	No
Glen Annie Rd./Del Norte Dr.	Yes		Work on minor leg may be considered	No
Glen Annie Rd./US-101 NB Ramp	Yes		Caltrans has the right to close or work on freeway ramps	Yes
Storke Rd./US-101 SB Ramp	Yes		Caltrans has the right to close or work on freeway ramps	Yes
Cathedral Oaks Rd./Alameda Ave.		Yes	Traffic volumes, time of day, type of work	No
Cathedral Oaks Rd./Los Cameros Rd.		Yes		No
Los Carneros Rd./Calle Real		Yes		Na
Los Cameros Rd./US-101 NB Ramp	Yes		Caltrans has the right to close or work on freeway ramps	N
Los Cameros Rd./US-101 SB Ramp	Yes		Caltrans has the right to close or work on freeway ramps	No
Los Carneros Rd./Calle Koral Rd.		Yes	Traffic volumes, time of day, type of work	No
Los Carneros Rd./Castilian Dr.	Yes		Work on minor leg may be considered	Na
Los Carneros Rd./Hollister Ave.	Yes			No
Los Carneros Way/Hollister Ave.	Yes		Work on minor leg may be considered	No
Hollister Ave./Aero Carnino Rd.		Yes	Traffic volumes, time of day, type of work	No
Hollister Ave./La Patera Ln.		Yes	Traffic volumes, time of day, type of work, impacts to residents	No
Cathedral Oaks Rd./Fairview Ave.		Yes	Traffic volumes, time of day, type of work, impacts to residents	N

APPENDIX D-2 ADDENDUM 1

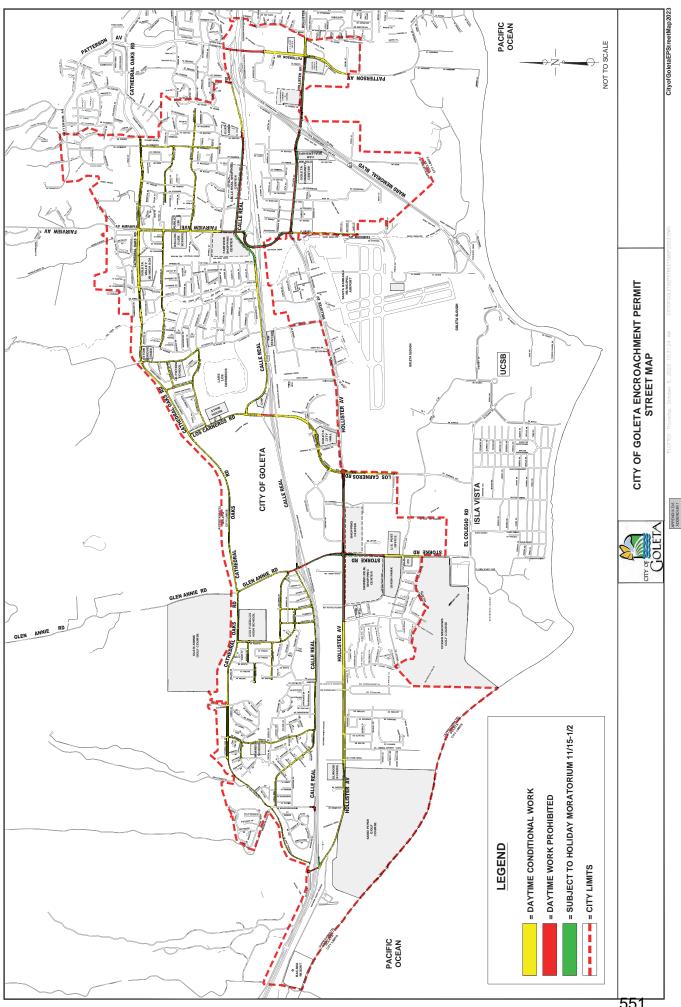
MAJOR INTERSECTIONS	DAYTIME WORK PROHIBITED?	DAYTIME WORK CONDITIONAL?	CONSIDERATIONS	SUBJECT TO HOLIDAY MORATORIUM?
Fairview Ave./Encina Ln.	Yes		Work on minor leg may be considered. Traffic volumes, time of day, type of work, impacts to residents	Yes
Fairview Ave./Calle Real	Yes			Yes
Fairview Ave./US-101 NB Ramp	Yes		Caltrans has the right to close or work on freeway ramps	Yes
Hollister Ave./Fairview Ave.	Yes			Yes
Hollister Ave./Pine Ave.	Yes		Work on minor leg may be considered	Yes
Hollister Ave./Rutherford St.	Yes		Work on minor leg may be considered	Yes
Cathedral Oaks Rd./Cambridge Dr.		Yes	Traffic volumes, time of day, type of work, impacts to residents	No
Calle Real/Kellogg Ave.	Yes		Work on minor leg may be considered	Yes
Hollister Ave./Kellogg Ave.	Yes		Work on minor leg may be considered; impacts to businesses	Yes
Holitister Ave./SR-217 SB Ramp	Yes		Calitrans has the right to close or work on freeway ramps	Yes
Hollister Ave./SR-217 NB Ramp	Yes		Caltrans has the right to close or work on freeway ramps	Yes
Patterson Ave /US-101 NB Ramp	Yes		Calitrans has the right to close or work on freeway ramps	
Patterson Ave./US-101 SB Ramp	Yes		Caltrans has the right to close or work on freeway ramps	
Patterson Ave./Overpass Rd.	Yes		Work on minor leg may be considered	
Hollister Ave./Patterson Ave.	Yes			Yes
Fairview Ave./US-101 SB Ramp	Yes		Caltrans has the right to close or work on freeway ramps	Yes
Cathedral Oaks Rd./US-101 NB Ramp 2	Yes		Now Cathedral Oaks	Yes
Eliwood Station Rd./Calle Real		Yes	Traffic volumes, school traffic, time of day, type of work, impact to residents	No
Cathedral Oaks Rd,/US-101 SB Ramp 2	Yes		Caltrans has the right to close or work on freeway ramps	Yes
Winchester Canyon Rd./Calle Real	Yes		Work on minor leg may be considered, impacts to residents	No

APPENDIX D-3 ADDENDUM 1

549

MAJOR INTERSECTIONS	DAYTIME WORK PROHIBITED?	DAYTIME WORK DAYTIME WORK PROHIBITED? CONDITIONAL?	DAYTIME WORK CONDITIONAL? CONSIDERATIONS	SUBJECT TO HOLIDAY MORATORIUM?
Cathedral Oaks Rd./Calle Real		Yes	Traffic volumes, time of day, type of work, impacts to residents	No
La Patera Ln./Calle Real	Yes		Work on minor leg may be considered	No
La Patera Ln./Cathedral Oaks Rd.		Yes	Traffic volumes, time of day, type of work, impacts to residents	No
Hollister Ave/Ellwood Station Road		Yes	Traffic volumes, time of day, type of work, impacts to residents	No

This intersection was created with the replacement and relaignment of the Cathedral Oaks Overcrossing
 These ramps were formerly known the Hollister Ave/101 Ramps



APPENDIX E SAMPLE DOOR HANGER

FOR

APPENDIX E
ADDENDUM 1



PROJECT NAME

The City of Goleta is pleased to inform you that the PROJECT NAME is about to begin. Our contractor, CONTRACTOR NAME, will be working over the next LENGTH OF PROJECT to construct this project. During that time, CONTRACTOR will be DESCRIPTION OF WORK. We apologize for any inconvenience this may cause and ask for your patience and cooperation so that we may complete this work as soon as possible.

Sign up for email/text notifications from the City on this project here:

https://public.govdelivery.com/accounts/CAGOLETA/subscriber/ new.

WORK HOURS/PARKING: The work will generally be performed between the hours of 7:30 a.m. and 4:30 p.m. However, there are work hour restrictions in some instances. Local access will be maintained during most of the work. However, parking restrictions will be necessary and will be posted a minimum of 72-hours in advance of the work. Cars will be towed if parked during the no parking dates posted on your street.

TIMELINE: Some or all of the following activities will be performed on your street:

\succ	DESCRIPTION OF ACTIVITY	DATE
\succ	DESCRIPTION OF ACTIVITY	DATE
\succ	DESCRIPTION OF ACTIVITY	DATE

CONTACTS: If you have any questions or need information, please contact:

NAME OF CITY CONTACT	PHONE NUMBER
NAME OF CONTRACT CONTACT	PHONE NUMBER



APPENDIX F TEMPORARY NO PARKING SIGN

FOR

APPENDIX F
ADDENDUM 1

EMPORARY PARKIN TIME: DATES: **REASON: CONTRACTOR'S** NAME: **PHONE NUMBER:** (LOCAL OR 800#)



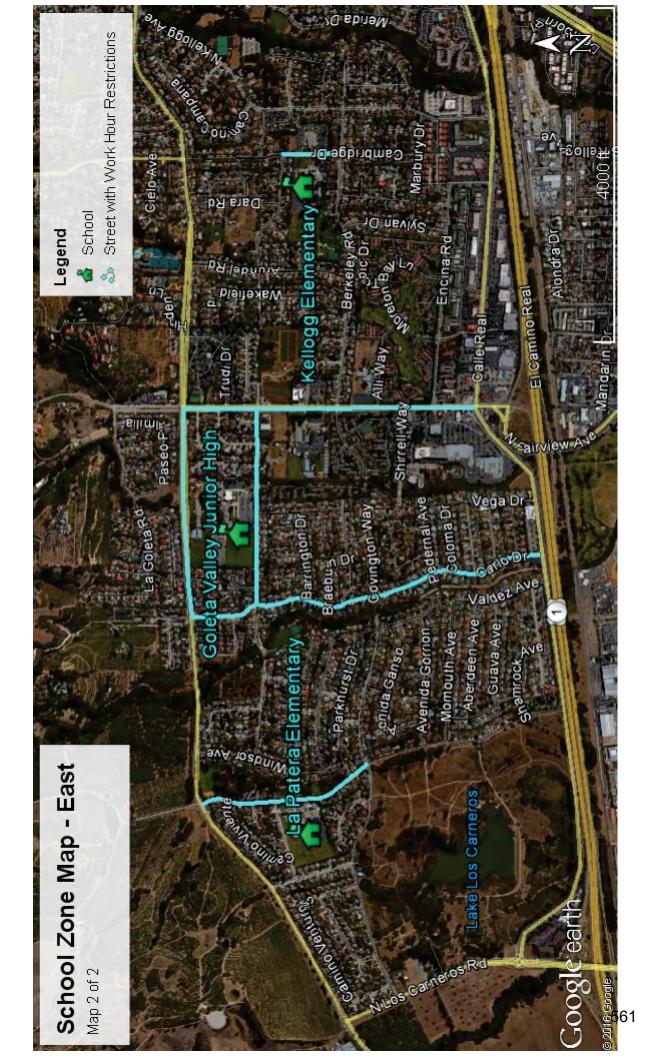
APPENDIX G SCHOOL ZONE WORK HOUR RESTRICTION MAP

FOR

	APPENDIX G
ADDENDUM I	ADDENDUM 1



APPENDIX G-1 ADDENDUM 1



APPENDIX G-2 ADDENDUM 1

APPENDIX H WEEKLY STATEMENT OF WORKING DAYS

FOR

APPENDIX H
ADDENDUM 1

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
DLA WEEKLY STATEMENT OF WORKING DAYS
DOT LAPM 16-A (NEW 10/2023)

JOB STAMP

REPORT NUMBER

CONTRACTOR				WEEK ENDING (m	onth, day, year)		
	Day (A)	Day (B)	Weather Conditions or Other Explanation ¹ (C)	Working Day (D)	Nonworking Day (E)	Working Day No Work Done on Controlling Activity ⁶ (F)	
1							
2		Monday					
3		Tuesday					
4		Wednesday					
5		Thursday					
6		Friday					
7							
8	Days this w	eek (total lines	s 1 thru 7)				
9	Days previo	usly reported	(take from previous week's report)				
10	Total days t	o date (lines 8	3 + 9)				
		Change C	Order Time Adjustments	Change Order Days Approved	Change Order Numbers ²		
11	Days this re	port					
12	Days previo	usly reported	(taken from previous week's report)				
13	Total chang	e order days t	to date (lines 11D + 12D)				
Computation of Extended Date for Completion			Number of Days	Numbered Day ⁴	Date		
14	First Workin	ng Day					
15	Original wor	rking days spe	ecified in contract				
16	COMPUTE	D DATE FOR	COMPLETION (line 14E + line 15D minus 1)				
17	Total chang	e order days a	pproved to date (from line 13)				
18	Total Nonwo	orking days to	date ³ (from box 10E)				
19	EXTENDED	DATE FOR C	COMPLETION (line 16E + line 17D + line 18D)				
20	Revised wor	rking days for	contract (line 15D + line 17D)				
21	Total workin	g days to date	(from box 10D)				
22	WORKING	DAYS REMAI	NING (line 20D – line 21D)				
CON	NTROLLING	ACTIVITY(IES	S) ⁵	·			

REMARKS

If the contractor disagrees with this report, submit a Request for Information within the time specified. NOTE: *Footnote Instructions to Resident Engineer* are on page 2.

RESIDENT ENGINEER SIGNATURE

Distribution: Original -- Contractor;

Copy -- Resident Engineer

DATE

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ADDENDUM 1

- When determining if the day is a working day or non-working day, first determine the controlling operation (taken from the critical path of the updated approved project schedule.), second, If you determine the day is a "nonworking day", provide the contractual reason -for example, "clear-wet grade" to describe conditions when the weather is clear, but the grade is too wet. Do not list days merely as "Unworkable". When recording nonworking days due to "other", provide explanation contract lane closure restrictions, State of emergency, area-wide labor strike, etc.
- 2. List numbers of change orders providing for time extensions.
- 3. Do not include nonworking days which occur after expiration of the Extended Date of Completion. On contracts that are overtime, the total under Working Days Shall not be greater than the total of revised Working Days (line 7). After approved total of working days has been reached, continue recording working and nonworking days but do not add into the totals. Make a statement under Remarks that working and nonworking days are shown for record only since the contact time has elapsed.

If an extension of time is subsequently approved, determine the new Extended Date by taking into account all nonworking days that are reachable.

- 4. From the calendar issued by the Division of Construction with working days numbered for convenience in computations.
- 5. Determine the controlling activity from the updated approved contract schedule. If the controlling activity is completed in the middle of the week and a new one begins, make this clear. For example, "Class 2 base -M, T, W; HMA -Th, Fri." This is not the place to list all the operations the contractor worked on for the week. Record that information in the Daily Report or under "remarks" if you wish.
- 6. Column F (lines 1-10) is informational only and tracks those days determined in column D to be working days, but the Contractor failed to work on the controlling operation.

APPENDIX I CC1 – CC5 FORMS

FOR



	MONTHLY PROJECT PAYMENT ESTIMATE SUMMARY
GOLETA	Payment Estimate No:
Department of Public Works 130 Cremona Drive, Suite B Goleta, CA 93117	Work Performed Through:
Contractor:	Project:
Address:	Acct.No:
Contract Summary	
Original Contract Amount:	
Approved Change Orders through #:	
Quantity Changes (Requires Project Engineer/Inspector verific	cation):
Total Contract Amount to Date:	

Payment Summary	CURRENT PAY PERIOD AMOUNT	PREVIOUS AMOUNT	TO DATE AMOUNT
Original Contract Payments			
Change Order Payments			
Total Earnings			
Less: Retention (5%)			
Less: Administrative Deductions			
Net Amounts			

The undersigned Contractor or Contractor's Authorized Representative certifies that to the best of thier knowledge, information, and belief, the work covered in this application for payment has been completed in accordance with the contract documents and the costs shown are true and correct.

Resident Engineer:

Project Engineer:

Contractor:

Date:

Date:

Date:

Form CC 1 REV: 03/2023



MATE				Work Remaining Quantity Amount								
PROJECT PAYMENT ESTIMATE			:ugh:									
СТ РАҮМІ	Payment Estimate No:		Work Performed Through:	Work Completed Quantity Amoun								
PROJE	Payment		Work Per	Previous Estimates Quantity Amount								
				Previou: Quantity								
				This Estimate antity Amount								
				This E Quantity								
				Contract Amount								
				Unit Cost								
Project:	Acct.No:	Contractor:		Unit Estimated Quantity								
Pro	Acc	Cor		Unit			 		 			
	GOLETA	Department of Public Works 130 Cremona Drive, Suite B	Goleta, CA 93117	Item Description								
	j J	130 130	G0/6	ltem No.								

Form CC 2 REV: 03/2023

569

		Project:							QUANT	ITY ADJ	IUSTMEN	QUANTITY ADJUSTMENT FORM
	JOLETA	Project No:	No:						Payment	Payment Estimate No:	No:	
130 (Department of Public Works 130 Cremona Drive, Suite B	Contractor:	ctor:									
Gole	Goleta, CA 93117								Work Per	Work Performed Through:	hrough:	
					INSTRUCTIONS	SNC						
	This form is to accompany Progress Payments or the Final Payment where there are quantity changes (variations in quantities) authorized by the Department of Public Works that adjust the Total Contract Amount.	Progress Pay that adjust	yments o the Tota	or the Final I Contract /	Payment whe Amount.	ere there ar	e quantity	/ changes (v	ariations in	quantities)	authorized by	y the
	Quantity Changes in the amount of: Accompanying Progress Payment # (or Final Payment)	mount of: ayment # (or Final	Payment)			have be	en reviewec	l and the a	ctual quant	have been reviewed and the actual quantities verified.	
:		-	(L F		Contract	Contract Quantity Adjustments	ljustments	ŀ	H	
Item	Item Description	Unit Unit Cost	nit Cost		This Estimate		r L	Previous Estimates	lates		To-Date Totals	s
No.				Quantity	Increase (Decrease)	Amount	Quantity	Increase Quantity (Decrease)	Amount	Quantity	Increase (Decrease)	Amount
						\$0.00			\$0.00			\$0.00
						\$0.00			\$0.00			\$0.00
						\$0.00			\$0.00			\$0.00
						\$0.00			\$0.00			\$0.00
						\$0.00			\$0.00			\$0.00
						\$0.00			\$0.00			\$0.00
						\$0.00			\$0.00			\$0.00
						\$0.00			\$0.00			\$0.00
		_				\$0.00			\$0.00			\$0.00
70												
Cont	Contractor Signature		Date				•	Resident Engineer Signature	ngineer Sig	Jnature	Ω	Date

570

Form CC3 REV: 03/2023

APPENDIX I-3 ADDENDUM 1



CONSTRUCTION CONTRACT FINAL RELEASE

130 Cremona Drive, Suite B Goleta, CA 93117

From:	Contractor	Date:
		Payment Request No:
	Address	Acct.No:
		Project Name:
To:	CITY OF GOLETA	
	Department of Public Works	
	CIP Division	
	130 Cremona Drive, Suite B	
	Goleta, CA 93117	
Inon rea	ceipt by the undersigned of a check from the C	ity of Goleta in the sum of

payable to

_

This release covers the final payment to the undersigned for all labor, services, equipment or material furnished on the job, including the work of or all materials furnished for all subcontractors, suppliers, or other agents acting on behalf of the undersigned on this work. There are no disputed claims for additional work.

Contractor Signature:

Print Name:

Title:

Date:

Form CC4 REV: 03/2023



GOLETA	Change Order I	No	
Department of Public Works 130 Cremona Drive, Suite B Goleta, CA 93117	Date Prepared:		
Guela, CA 93117	Project No.:		
Contractor:	Project:		
Address:			
DESCRIPTION OF ITEMS INCLUDED IN CONT Modifications to the Project listed in CCO-XX hav			
What is the change:			
Who initiated the change:			
Where is the change located:			
How will the change be implemented:			
Method of Payment:			
Time Adjustment: A time adjustment of <u>X working days</u> is included a	as part of this change order.		
CONTRACT CHANGE ORDER-XX FINANCIAL Original Contract Amount:	IMPACT:		
Total Change Order Authority Approved by Count	cil:		1
Total Change By Previous Change Orders:			
Contract Amount Prior to This Change Order:	\$	-	-
Amount to be Increased By This Change Order:			I
Adjusted Contract Amount Including This Cha Total Remaining Change Order Authority:	ange Order: \$	-	
	φ	-	
;	-dor:	Dave	-
Contract Period Increase Due to This Change Or Final Contract Completion Date Including This Ch		Days Days	-

By:

Name:

John Plummer, Resident Engineer

CONTRACT CHANGE ORDER MEMO



		CONTRACT C	HANGE ORDER	
		Change Order No).	
Department of Public Works 130 Cremona Drive, Suite B		Date Prepared:		
Goleta, CA 93117		Project No.:		
Contractor:		Project:		
Address:				
not included in the plans a	the following changes from the plans an and specifications for this contract. done, estimate of quantities, and prices		e following described wor	rk
	4-1.05 CHANGES AND EXTRA WORK of 1	-	cations, the Contractor shal	II
	or is compensated \$X,XXX.XX.This sum, me e compensation, for providing all labor, mat			
(Database Code; XXX)	Total This Item:			
X Working Days Added				
	Estimated Cost:	Decrease	Increase	
By reason of this order, th	ne time of completion will be adjusted as	follows: XXX (X) working	g days added.	
Original Contract Amount	:			
C F	Change Orders and/or Quantity Adjustm	ient:		
Contract Amount Prior to	•		\$	-
	creased/Decreased by this Change Orde It Including this Change Order:	r:	\$	
Adjusted Contract Amoun	at including this change Order:		Ψ	
SIGNATURE	(PRINT NAME & TITLE)		DATE	
REVIEWED BY:				
SIGNATURE	(PRINT NAME & TITLE)		DATE	
	John Plummer, Senior Eng	ineer		
APPROVAL RECOMMEND	DED BY: (PRINT NAME & TITLE)		DATE	
	Andrew Fuller, Principal En	aineer		
		911001	<u> </u>	

APP	ENDIX I ENDUN	-6
ADD	ENDUN	11

1

	CONTRACT CHANGE	ORDER
GOLETA	Change Order No.	
Department of Public Works 130 Cremona Drive, Suite B	Date Prepared:	
Goleta, CA 93117	Project No.:	
Contractor:	Project:	
CITY APPROVAL BY:		
SIGNATURE	(PRINT NAME & TITLE) DATE	
	Nina Buelna, Public Works Director	

We, the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment, therefore, the prices shown above. **NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest within the time therein specified.**

CONTRACTOR ACCEPTANCE BY:

SIGNATURE	(PRINT NAME & TITLE)	DATE

Form CC 5



APPENDIX J C48(CA) SIGN DETAIL

FOR





NOTES:

1. Provided dimensions are for the 132"x78" sign panel.

For the 96"x60" sign panel, multiply each horizontal dimension of the 132"x78" sign panel by approximately 0.728 and each vertical dimension by approximately 0.769. Adjust spacing as needed.

For the 48"x30" sign panel, multiply each horizontal dimension of the 132"x78" sign panel by approximately 0.364 and each vertical dimension by approximately 0.385. Adjust spacing as needed.

2. Use when the project involves Senate Bill 1 funds.

C48 (CA)

ENGLISH UNITS			
Α	В		
132	78		
96	60		
48	30		

COLORS: LEGEND - BLACK (ARIAL BOLD ITALIC IN HEADER) BACKGROUND - WHITE AND FLUORESCENT ORANGE SENATE BILL 1 LOGO - CMYK COORDINATES FOR SB1 LOGO ARE AS FOLLOWS: BROWN (C 80%, M 80%, Y 80%, K 20%), LIGHT CREAM (C 0%, M 2%, Y 7%, K 0%), BLUE (C 75%, M 23%, Y 1%, K 0%), GREEN (C 90%, M 20%, Y 80%, 0%), YELLOW GOLD (C 0%, M 38%, Y 85%, K 4%), RED (C 16%, M 84%, Y 65%, K 3%) BE WORK ZONE ALERT RIBBON: PANTONE #299 BLUE AND ORANGE SEE VECTOR GRAPHIC FILES FOR SB1 LOGO AND BE WORK ZONE ALERT GRAPHIC ALL COLORS TO BE RETROREFLECTIVE, EXCEPT FOR BLACK



CITY OF GOLETA

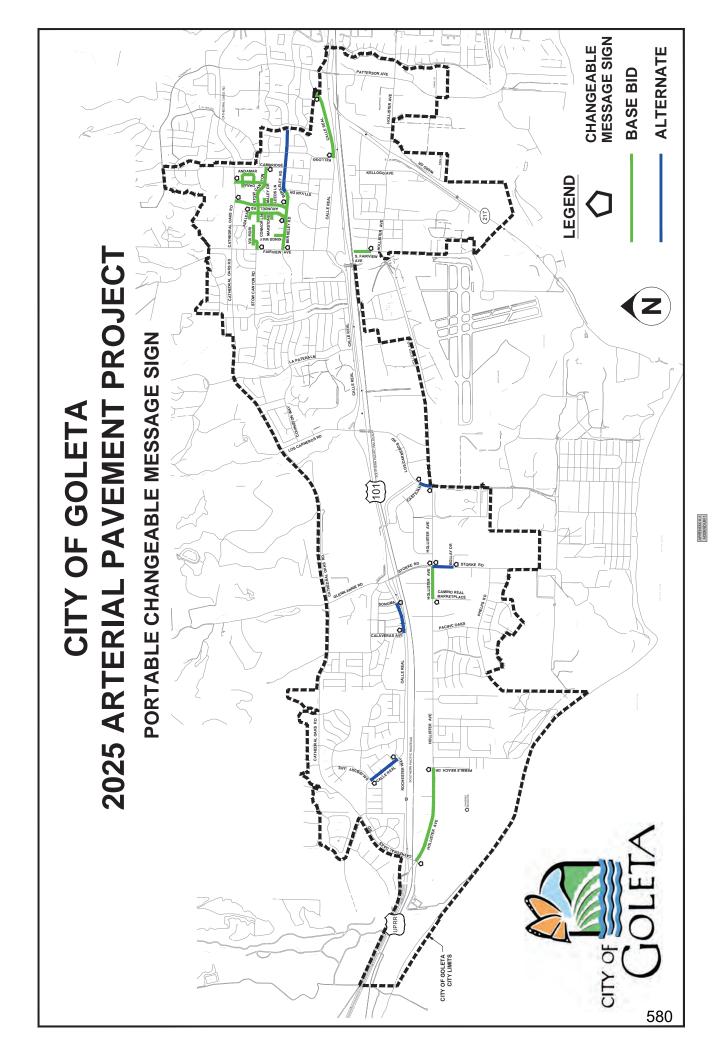
APPENDIX K PORTABLE CHANGEABLE MESSAGE SIGN MAP

FOR

2025 ARTERIAL PAVEMENT PROJECT

APPENDIX K
APPENDIX K ADDENDUM 1

Back of Cover Sheet



CITY OF GOLETA

APPENDIX L BMP DEVICES

FOR

2025 ARTERIAL PAVEMENT PROJECT



Back of Cover Sheet



Construction Site Best Management Practices (BMP) Manual

CTSW-RT-17-314.18.1 May 2017

California Department of Transportation Division of Environmental Analysis, Stormwater Program 1120 N Street Sacramento, California 95814 <u>http://www.dot.ca.gov/hg/env/stormwater/index.htm</u>



For individuals with sensory disabilities, this document is available in alternate formats upon request.

Please call or write to: Stormwater Liaison, Caltrans Division of Environmental Analysis MS 27, P.O. Box 942874, Sacramento, CA 94274-0001

(916) 653-8896 Voice or dial 711 to use a relay service.



APPENDIX L-3 ADDENDUM 1
ADDENDUM 1

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APPENDIX L-5 ADDENDUM 1
ADDENDUM 1



CALTRANS Technical Report Documentation Page

1. Report No.	2. Type of Report	3. Report Phase and Edition	1		
	<u>,</u>				
CTSW-RT-17-314.18.1	Guidance Manual	Final			
4. Litle and Subtitle	4. Title and Subtitle		5. Report Date		
Construction Site Best Management Practices (BMP) Manual		May 2017			
6. Copyright Owner(s)		7. Caltrans Project Coordinator			
California Department of T	ransportation	Hamid Hakim			
8. Performing Organization N	ames and Addresses	9. Task Order No.			
Brown and Caldwell 201 North Civic Drive, Suit	0 1 1 5	18			
Walnut Creek, CA 94596	e IIS	10. Contract No.			
WRECO 1243 Alpine Road, Suite 1 Walnut Creek, CA 94596	08	43A0314			
11. Sponsoring Agency Name California Department of T Stormwater Program MS-2 1120 N Street Sacramento, California 95	ransportation 7	12. Caltrans Functional Rev Greg Balzer Kim Christmann Johnathan Fitzgerald Hamid Hakim Sean Penders Hamzeh Ramadan Tom Yi	viewers: Jack Broadbent Mark Doroudian Dave Fredrickson Dave Meress Ben Rubio Tom Rutsch Walter Yu		
13. Supplementary Notes		14. External Reviewers			
15. Abstract		1			
	rs to use to determine	artment of Transportation (Cal applicability of Best Managem			
16. Key Words	17. Distrib	ution Statement	18. No.		
Stormwater, guidance, ma	nual		of pages		
BMPs, installation, mainte SWPPP, WPCP			318		



APPENDIX L-7 ADDENDUM	7
ADDENDUM '	1

Table of Contents

1.	Introductio	on	
	1.1. Overv	iew	
	1.2. Feder	al Regulations	2
	1.3. Caltra	ans NPDES Statewide Permit and NPDES Construction General Permits	2
	1.4. Other	NPDES Permits	2
	1.4.1.	Industrial Permit	2
	1.4.2.	Dewatering Permit	
	1.5. Caltra	ans Stormwater Manuals and Websites	4
2.	Caltrans C	construction Stormwater Management Program Requirements	
	2.1. Storm	water Pollution Prevention Plan and Water Pollution Control Program	6
	2.2. Const	ruction BMP Applicability	6
	2.3. Minim	num Construction BMPs	
	2.4. BMP	Inspection Frequency	
3.	Temporary	/ Soil Stabilization BMP	
	3.1. Temp	orary Soil Stabilization	15
	3.1.1.	SS-1 Scheduling	17
	3.1.2.	SS-2 Preservation of Existing Vegetation	
	3.1.3.	SS-3 Hydraulic Mulch	25
	3.1.4.	SS-4 Hydroseeding	29
	3.1.5.	SS-5 Soil Binders	33
	3.1.6.	SS-6 Straw Mulch	
	3.1.7.	SS-7 Temporary Cover and Rolled Erosion Control Products (RECP)	
	3.1.8.	SS-8 Wood Mulching	52
	3.2. Temp	orary Concentrated Flow Conveyance Controls	55
	3.2.1.	SS-9 Earth Dikes/Drainage Swales & Lined Ditches	56
	3.2.2.	SS-10 Outlet Protection/Velocity Dissipation Devices	62
	3.2.3.	SS-11 Slope Drains	65
	3.2.4.	SS-12 Streambank Stabilization	67
4.	Temporary	/ Sediment Control BMP	72
	4.1. Temp	orary Sediment Controls	72
	4.1.1.	SC-1 Silt Fence	73
	4.1.2.	SC-2 Sediment/Desilting Basin	79
	4.1.3.	SC-3 Sediment Trap/Curb Cutback	
	4.1.4.	SC-4 Check Dam	91
	4.1.5.	SC-5 Fiber Rolls	96
	4.1.6.	SC-6 Gravel Bag Berm/Earthen Berm	
	4.1.7.	SC-7 Street Sweeping	





	4.1.8. SC-8 Sandbag Barrier	
	4.1.9. SC-9 Straw Bale Barrier	
	4.1.10. SC-10 Temporary Drainage Inlet Protection	
	4.1.11. SC-11 Compost Sock	
	4.1.12. SC-12 Flexible Sediment Barrier	
5.	Wind Erosion Control BMP	
	5.1. Wind Erosion Control	
	5.1.1. WE-1 Wind Erosion Control	
6.	Tracking Control BMP	
	6.1. Tracking Control	
	6.1.1. TC-1 Temporary Construction Entrance/Exit	
	6.1.2. TC-2 Temporary Construction Roadway	
	6.1.3. TC-3 Entrance/Outlet Tire Wash	
7.	Non-Storm Water Management BMP	
	7.1. Non-Storm Water Management	
	7.1.1. NS-1 Water Conservation Practices	
	7.1.2. NS-2 Dewatering Operations	
	7.1.3. NS-3 Paving, Sealing, Sawcutting and Grinding Operations	154
	7.1.4. NS-4 Temporary Stream Crossing	
	7.1.5. NS-5 Clear Water Diversion	
	7.1.6. NS-6 Illegal Connection and Illicit Discharge Detection and Reporting	
	7.1.7. NS-7 Potable Water/Irrigation	
	7.1.8. NS-8 Vehicle and Equipment Cleaning	
	7.1.9. NS-9 Vehicle and Equipment Fueling	
	7.1.10. NS-10 Vehicle and Equipment Maintenance	
	7.1.11. NS-11 Pile Driving Operations	
	7.1.12. NS-12 Concrete Curing	
	7.1.13. NS-13 Material and Equipment Use Over Water	
	7.1.14. NS-14 Concrete Finishing	
	7.1.15. NS-15 Structure Demolition/Removal Over or Adjacent to Water	
8.	Waste Management and Materials Pollution Control BMPs	
	8.1. Waste Management and Materials Pollution Control	
	8.1.1. Waste Management BMPs	
	8.1.2. Materials Pollution Control BMPs	
	8.1.3. WM-1 Material Delivery and Storage	
	8.1.4. WM-2 Material Use	
	8.1.5. WM-3 Stockpile Management	
	8.1.6. WM-4 Spill Prevention and Control	
	8.1.7. WM-5 Solid Waste Management	
	8.1.8. WM-6 Hazardous Waste Management	
	8.1.9. WM-7 Contaminated Soil Management	
	8.1.10. WM-8 Concrete Waste Management	



8.1.11. WM-9 Sanitary and Septic Waste Management	227
8.1.12. WM-10 Liquid Waste Management	229
9. Appendix A: Definition of Terms	232
10. Appendix B: Selection fo Temporary Soil Stabilization Controls	233
11. Appendix C: Active Treatment Systems	234

List of Figures

Figure 1-1. Map of California with Regional Water Quality Control Boards and Caltrans Districts	4
Figure 2-2. Construction Site BMP Applicability Flowchart	10

List of Tables

Table 1-3. Relevant Caltrans Stormwater Documents, Manuals and their Purpose	5
Table 1-4. Stormwater Related Websites	6
Table 2-1. Construction Site BMPs	11
Table 2-2. Monitoring Requirements for CGP and LTCGP	14
Table 3-1. Temporary Soil Stabilization BMPs	16
Table 4-1. Temporary Sediment Control BMPs	17
Table 5-1. Wind Erosion Control BMPs	
Table 6-1. Tracking Control BMPs	
Table 7-1. Non-Stormwater Management BMPs	20
Table 8-1. Waste Management and Materials Pollution Control BMPs	22



V

List of Abbreviations

ASBS	Areas of Special Biological Significance	NTU	Nephelometric Turbidity Units
ATS	Active Treatment System	NWS	National Weather Service
BAT	Best Available Technology	OHSD	Office of Hydraulics and Stormwater Design
BCT	Best Conventional Technology	O&M	Operation and Maintenance
BMP	Best Management Practice	PRDs	Permit Registration Documents
Caltrans	State of California, Department of Transportation	QSD	Qualified SWPPP Developer
CASQA	California Stormwater Quality	QSP	Qualified SWPPP Practitioner
лусло	Association	RE	Resident Engineer
CEQA	California Environmental Quality Act	REAP	Rain Event Action Plan
CCS	Cellular Confinement System	RECP	rolled erosion control products
CFR	Code of Federal Regulations	RW	Receiving Water
CGP	Construction General Permit	RWQCB	-
CPESC	Certified Professional in Erosion and	SDS	Regional Water Quality Control Board
	Sediment Control	SAP	Safety Data Sheet
CSBMP	Construction Site Best Management		Sampling and Analysis Plan
0)4/4	Practices	SMARTS	Storm Water Multiple Application Reporting and Tracking System
CWA	Clean Water Act	SS	Settleable Solids
DFW	Department of Fish and Wildlife	SSC	Suspended Sediment Concentration
DSA	Disturbed Soil Area	SSPs	Standard Special Provisions
DTSC	Department of Toxic Substance Control	SWMP	Stormwater Management Program
DEA	Division of Environmental Analysis	SWPPP	Stormwater Pollution Prevention Plan
DWQ	Division of Water Quality	SWRCB	State Water Resources Control Board
EPA	Environmental Protection Agency	TMDL	Total Maximum Daily Load
ESA	Environmentally Sensitive Area	TSS	Total Suspended Solids
HQ	Headquarters	USACOE	U.S. Army Corps of Engineers
IC/ID	Illegal Connection/Illicit Discharge	USGS	United States Geological Service
IH	Information Handout	H:V	Horizontal versus Vertical
LRP	Legally Responsible Person	WDID	Waste Discharger Identification Number
LTCGP	Lake Tahoe Hydrologic Unit Construction General Permit	WDR	Waste Discharge Requirement
MEP	Maximum Extent Practicable	WQS	Water Quality Certification
MS4	Municipal Separate Storm Sewer	WQS	Water Quality Standards
	System	-	Water Pollution Control Manager
NAL	Numeric Action Level	WPCD	Water Pollution Control Drawing
NEL	Numeric Effluent Limitation	WPCP	Water Pollution Control Program
NOAA	National Oceanic and Atmospheric Administration	WPCS	Water Pollution Control Schedule
NOI	Notice of Intent		
NPDES	National Pollutant Discharge Elimination System		





System

Section 1 Introduction

1.1 Overview

This Construction Site Best Management Practices (CSBMP) Manual (Manual) provides guidance on the selection and implementation of Best Management Practices (BMPs) into construction projects within the Caltrans right-of-way.

The primary objective of this CSBMP Manual is to provide the overall process for selecting, installing, and maintaining temporary BMPs in Caltrans construction projects. The CSBMP Manual provides a general background of stormwater documents and references to other stormwater manuals, includes a flowchart showing applicable BMP triggers for each of the six Construction Site BMP categories, and detailed guidance for the selection, installation, and required maintenance for individual BMPs. The Manual ties into the Caltrans 2015 Standard Specifications applicable to BMP installation and maintenance frequency,

This Manual is organized as follows:

Section 1 – Introduction

This section provides a background on regulations and stormwater permits, and relevant stormwater guidance documents and websites.

Section 2 – Caltrans Construction Stormwater Program Requirements

provides a description of general documents prepared for or related to the construction phase of the project, instructions for the selection and implementation of Construction Site BMPs and details the minimum BMP inspections required for construction sites.

Section 3 – Temporary Soil Stabilization BMPs

provides an overview of the Soil Stabilization BMP category and a listing and working details for Caltrans Construction Site BMPs for Temporary Soil Stabilization.

Section 4 – Temporary Sediment Control BMPs

provides an overview of the Sediment Control BMP category and a listing and working details for Caltrans Construction Site BMPs for Temporary Sediment Control.

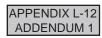
Section 5 - Wind Erosion Control BMPs

provides an overview of the Wind Erosion BMP category and a listing and working details for Caltrans Construction Site BMPs for Wind Erosion Control.

Section 6 - Tracking Control BMPs

provides an overview of the Tracking Control BMP category and a listing and working details for Caltrans Construction Site BMPs for Tracking Control.





Section 7 - Non-Stormwater Management BMPs

provides an overview of the Non- Stormwater Management BMP category and a listing and working details for Caltrans Construction Site BMPs for Non-Stormwater Management.

Section 8 - Waste Management and Material Pollution Control BMPs

provides an overview of the Waste Management and Materials Pollution Control BMP category and a listing and working details for Caltrans Construction Site BMPs for Waste Management and Materials Pollution Control.

Appendix A - provides definitions of terms used throughout this Manual.

Appendix B - provides guidance on the selection of temporary soil stabilization controls.

Appendix C - provides guidance on the requirements for the implementation of Active Treatment System (ATS) to comply with the CGP or the LTCGP.

1.2 Regulations and Stormwater Permits

Federal Regulations

The Clean Water Act is a Federal regulation that deals in part with controlling discharges of pollutants from Municipal Separate Storm Sewer Systems (MS4s), construction sites, and industrial activities as part of the National Pollutant Discharge Elimination System (NPDES) permit process. In 1990, the Environmental Protection Agency (EPA) promulgated federal stormwater regulations requiring municipal, construction and industrial stormwater discharges to comply with an NPDES permit.

In California, the EPA delegated its authority to issue NPDES permits to the State Water Resources Control Board (SWRCB). The State Board has nine regional water quality control boards across the State. Figure 1-1 presents a depiction of the nine regional board boundaries in relation to the Caltrans Districts.

Caltrans NPDES Statewide Permit and NPDES Construction General Permits

On July 15, 1999, the SWRCB issued the first "NPDES Permit, Statewide Stormwater Permit and Waste Discharge Requirements (WDRs) for the State of California, Department of Transportation (Caltrans)" (NPDES No. CAS000003) hereby called "Caltrans Permit." The Caltrans Permit requires the preparation and implementation of the Caltrans Statewide Stormwater Management Plan (SWMP). The SWMP describes how Caltrans plans to implement the Caltrans Permit requirements and describes Caltrans' program addressing stormwater pollution control related to various activities, including planning, design, construction, maintenance, and operation of roadways and facilities.

The Caltrans Permit regulates stormwater discharges from Caltrans properties, facilities, and activities, and requires that Caltrans' construction program comply with the requirements of the "NPDES General Permit, WDRs for Discharges of Stormwater Runoff Associated with Construction Activity" (NPDES No. CAS000002) (Construction General Permit) issued by the SWRCB.

Both the Caltrans Permit and the Construction General Permit (CGP) have been reissued since 2009. The current Caltrans Permit Order 2012-0011-DWQ became effective July 1, 2013 and requires construction projects with one acre or more of soil disturbance to comply with the CGP Order 2009-009-DWQ and amendments thereto. There are a small number of Caltrans projects that are situated in the Lake Tahoe Regional Board area; those projects are subject to the Lake Tahoe Construction General Permit (LTCGP) Order No.R6T-1016-0010. The CGP and the LTCGP require SWPPP projects to upload the authorized SWPPP and all other relevant documents and data to the State Board's Stormwater Multiple Application and Report Tracking System (SMARTS).

APPENDIX L-13 ADDENDUM 1
ADDENDUM 1



Other NPDES Permits

There are other Permits that might be applicable to Caltrans construction projects depending on the specific activities. Any construction project might trigger the Statewide Industrial Permit coverage if there is a proposed batch plant or other industrial activities as outlined below. In addition, if there is any dewatering being proposed, there are specific Regional Permits that might be applicable.

Industrial Permit

Industrial Activities are not covered under the Caltrans Permit. The Statewide Permit for Stormwater Discharges Associated with Industrial Activities (IGP) (Order 2014-0057-DWQ) regulates nine broad categories of industrial activities. There are certain activities that might occur ancillary to construction projects; for those operations, the industrial permit is triggered. Caltrans contracts include language requiring the Contractor to implement BMPs and seek coverage as required under the IGP.

Dewatering Permit

Dewatering discharge requirements vary among the nine regional boards. Caltrans has developed a Dewatering Manual that should be referred to determine appropriate requirements for the individual construction site. The Dewatering Manual can be accessed via the website link included in Table 1-4.





Figure 1-1. Map of California with Regional Water Quality Control Boards and Caltrans Districts



APPENDIX L-15 ADDENDUM 1
ADDENDUM 1

1.3 Caltrans Stormwater Manuals and Websites

Caltrans has devised a comprehensive stormwater program to comply with Caltrans Permit requirements. In addition to the 2016 SWMP, Caltrans has developed several stormwater guidance manuals that are available on their website for staff, consultants and anyone in the public to use to implement appropriate BMPs.

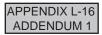
Table 1-3 presents a list of the primary reference material to be used for determining applicable permit requirements and specific compliance mechanisms developed by Caltrans. This Manual is intended to be used in conjunction with the SWPPP/WPCP Preparation Manual as both are directly related to water pollution control when performing construction operations within Caltrans projects and/or rights of way.

	Table 1-3. Relevant Caltrans Stormwater Documents, Manuals and their Purpose $^{ m 1}$					
Date	Document	Purpose				
July 2016	Caltrans Stormwater Management Plan (SWMP)	Describes how Caltrans plans to implement the Caltrans Permit requirements. The SWMP describes Caltrans' program and addresses stormwater pollution control related to various activities, including planning, design, construction, maintenance, and operation of roadways and facilities.				
	Stormwater Quality Handbooks: Project Planning and Design Guide (PPDG)	Guides project planning staff in preparing and selecting appropriate Best Management Practices for inclusion into Contract Plans. Includes step-by-step guidance for documenting the selection and implementation of BMPs.				
February 2016	Appendix E - Stormwater Data Report (SWDR)	Document prepared by the Project Engineer or Landscape Architect which forms basis for ensuring compliance with the Caltrans Permit requirements for the Design Division. Determination of SWPPP/WPCP applicability based on DSA and BMP line items included as part of the Contract Plans.				
June 2016	Stormwater Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation ManualGuides Contractors and Caltrans staff through the process of preparing a SWPPP and WPCP. This manual provides detailed step-by-step procedures, instructions, sample text and a template that Contractors must use to prepare the SWPPP/WPCP. Templa conform to CGP requirements based on risk level, LTCGP requirements including deviations from CGP language, and Caltrans requirements for preparing WPCPs.					
August 2013	Construction Site Monitoring Program Guidance Manual	This manual presents guidance for Caltrans staff and Contractors to use in the planning and implementation of stormwater monitoring programs at construction sites. Describes and provides guidance on developing Sampling and Analysis Plans, standard operating procedures for pH and turbidity sampling and other requirements of the CGP and LTCGP.				
July 2003	Guidance for Temporary Soil Stabilization	The main purpose of this document is to help direct the planning, selection, and implementation of Caltrans-approved temporary soil stabilization BMPs.				
July 2014	Field Guide to Construction Site Dewatering	The purpose of this Dewatering Guide is to inform and guide intended users in selecting implementing, and monitoring construction site dewatering operations.				
September 2008	Erosion Prediction Procedure Manual	Describes the method established and approved by headquarters (HQ) Office of Hydraulics and Stormwater Design (OHSD) for the prediction of erosion rates before, during, and after construction of Caltrans projects to meet the erosion and sediment control requirements identified in the Caltrans Permit, the CGP and the LTCGP.				

Table 1-4 presents website links for Caltrans Manuals, procedures and other documents along with other websites that can be used to either gain a deeper understanding of stormwater requirements or as

¹ There may be other relevant Manuals that pertain to specific enforcement or general criteria, see Table 1-4 for additional Manuals and links





guidance when preparing stormwater documents and selecting appropriate temporary construction site BMPs.

Table 1-4. Stormwater Related Websites						
	Description	Websites				
EPA Agency	U.S. Environmental Protection Agency (EPA)	http://www.epa.gov				
Laws/ Regulations	Code of Federal Regulations (CFR) http://www.gpo.gov/fdsys/browse/collectionCfr.activitionCode=CFR					
	Caltrans NPDES Statewide Stormwater Permit (Caltrans Permit)	http://www.swrcb.ca.gov/water_issues/programs/stormwater /caltrans.shtml				
NPDES Permits	Construction General Permit (CGP)	http://www.swrcb.ca.gov/water_issues/programs/stormwater /construction.shtml				
NPDES Permits	Lake Tahoe Construction General Permit (LTCGP)	http://www.waterboards.ca.gov/lahontan/water_issues/progr ams/storm_water/docs/r6t_2016_0010_cgp_combined.pdf				
	Industrial General Permit (IGP)	http://www.swrcb.ca.gov/water_issues/programs/stormwater /industrial.shtml				
Caltrans Stormwater Program	Caltrans Statewide Stormwater Program - HQ DEA (contains links such as SWMP, Annual Report)	http://www.dot.ca.gov/hq/env/stormwater/index.htm				
State Water Resources Control Board	State Water Resources Control Board website, particularly Stormwater Multiple Application and Report Tracking System (SMARTS)	https://smarts.waterboards.ca.gov/smarts/faces/SwSmartsL ogin.xhtml				
Caltrans Stormwater Manuals	Division of Construction - Stormwater Quality Link. Contains links to resources for developing SWPPP, WPCP, Construction Site Dewatering and other Manuals and resources.	http://www.dot.ca.gov/hq/construc/stormwater/				
	Caltrans Construction Stormwater Quality Manuals and Handbooks	http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm				
Caltrans SSP and Stormwater Costs	Caltrans Construction Contract Standards Specifications, Plans, Standard Special Provisions (SSPs) ²	http://www.dot.ca.gov/hq/esc/oe/specs_html/index.html				
Estimating Guidance	Caltrans Cost estimating guidance	http://www.dot.ca.gov/hq/oppd/costest/costest.htm				

 $^{^{2}}$ Contract Documents could include specific project requirements such as specific monitoring requirements under CWA 401 or 404 Permit or others included in the Informational Handout.





Section 2 Caltrans Construction Stormwater Management Program Requirements

2.1 Stormwater Pollution Prevention Plan and Water Pollution Control Program

Caltrans requires Contractors to prepare and implement a program to effectively control water pollution during the construction of all projects (see Standard Specification Section 13 Water Pollution Control). Projects resulting in one acre or more of disturbed soil area (DSA) are subject to the CGP or the LTCGP depending on the project location. Caltrans Standard Specifications require that for these projects, Contractors prepare and submit a SWPPP.

If two or more small projects [less than one acre of soil disturbance] in the same corridor are part of a larger common plan of development [one acre or more], then these small projects are also subject to the requirements of the CGP or the LTCGP to develop and implement a SWPPP. There also might be instances where a SWPPP is required even when there is less than one acre of DSA, if it is determined that the project poses a significant water quality risk; this determination will be made by the District/Regional NPDES Coordinator or the Construction Stormwater Coordinator or if mandated by the RWQCB or SWRCB or another regulatory agency. Potential examples when this might occur could be work over a 303d waterbody, water implosions, etc.

Caltrans requires that a WPCP addressing control measures be prepared and implemented by the construction Contractor for projects resulting in soil disturbance of less than one acre. The specific requirements and detailed instructions are included in Section 4 of the SWPPP/WPCP Preparation Manual. These general requirements are included in the Construction BMP Applicability Flowchart, Figure 2-1 of this Manual.

Projects that have a DSA between one and less than five acres may qualify for a rainfall erosivity waiver under the CGP if the rainfall erosivity factor (R factor) is less than a value of five. The R factor takes into account project location, length of construction period, and time of year so projects that begin and complete construction within a short period are likely to qualify for a rainfall erosivity waiver. To calculate the R value, refer to Section 1.4.2.1 of the SWPPP/WPCP Preparation Manual, a link to the manual is provided in Table 1-4.

Projects that qualify for a rainfall erosivity waiver do not need to prepare a SWPPP but are required to submit proper documentation via SMARTS (to be exempted from the CGP) as well as prepare and implement a site-specific Water Pollution Control Program (WPCP).

2.2 Construction BMP Applicability

The flowchart presented in Figure 2-1 guides the user as to whether the project triggers a SWPPP or a WPCP and where to find additional information, if needed. The flowchart also includes general questions to determine applicability of BMP categories that are described in Sections 3-8 of this Manual.





The steps described below correspond to the steps shown in Figure 2-1.

Step 1 - Start

The Contractor, the Water Pollution Control (WPC) Manager, the Qualified SWPPP Developer (QSD) or the Qualified SWPPP Practitioner (QSP) should use Figure 2-1, the guidance provided in this section, and the SWPPP/WPCP Preparation Manual to determine the project's entire BMP selection and applicability for the duration of the construction phase.

Step 2 - Is a Construction project being proposed?

A construction project is defined as any activity, including, but not limited to, clearing, grading, grubbing, or excavation. Routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of the facility is not deemed a construction activity that requires a SWPPP or a WPCP.

If the project qualifies as a construction project, proceed to step 3.

If the project does not meet the definition of construction, then the project is subject to Maintenance BMPs, refer to the Caltrans July 2016 SWMP or the Caltrans Maintenance Staff Guide.

Step 3 - Will the project create one acre or more of Disturbed Soil Area?

If the construction project will disturb more than one acre of soil, it is subject to either the CGP or the LTCGP depending on its location and must prepare and maintain an up to date SWPPP during the entire duration of the project.

If the project disturbs less than an acre of soil, the project must have a WPCP prepared and implemented, see Section 4 of the SWPPP/WPCP Preparation Manual for specific instructions.

Step 4 - Can the construction project qualify for a Rainfall Erosivity Waiver?

If a project will be a short duration and is more than one acre but less than five acres of soil disturbance, it might qualify for an EPA rainfall erosivity waiver as discussed in Section 1.4.2 of the SWPPP/WPCP Preparation Manual.

If you answered yes, the project does not need coverage under the CGP but it still requires some paperwork to be filed via SMARTS. In addition, a WPCP must be prepared and implemented.

If you answered no, then project is subject to SWPPP requirements. See Section 3 of the SWPPP/WPCP Preparation Manual for further guidance on preparing a SWPPP.

Step 5 - Are any soil areas expected to be exposed and need stabilization as part of the project or is there a need to stabilize concentrated flow conveyances?

Any project subject to CGP or LTCGP is required to implement appropriate controls year-round. If the project has exposed soil areas or unlined conveyances, the WPC Manager or QSP must be diligent in ensuring appropriate BMPs are implemented. See Section 3 of this Manual for specific BMP factsheets and proceed to Step 6. For further guidance on proper selection and costs, see Appendix B of this Manual.

If there are no soil areas needing stabilization and no unstable conveyances, then proceed to Step 6.

Step 6 - Will the project require temporary controls to intercept/slowdown onsite or offsite flows?

If the project has areas where offsite flows are coming onto the project area, flows must be conveyed and the WPC Manager or QSP must ensure that no materials or contaminants including soil are being carried by the offsite flows. Onsite flows must be conveyed via lined or vegetated channels to reduce potential for turbid flows. See Section 4 of this Manual for specific BMP factsheets to control sedimentladen runoff.



Step 7 - Will the project require a dust control plan or is there a potential for dust control BMPs to be applicable?

Utilize Section 5 of this Manual for specific BMP factsheets if the contract documents require the preparation and implementation of a Dust Control Plan or if there is a potential for dust to be generated at any time during the duration of the construction project.

Step 8 - Will the project require tracking controls in any area within project limits?

Any areas where construction vehicles are entering or exiting the project must be stabilized to prevent tracking of sediment or other materials. See Section 6 of this Manual for specific BMP factsheets for tracking control. Additionally, SC-7, Street Sweeping should be evaluated and implemented either standalone or in combination to ensure compliance with all permits and contract documents.

Step 9 - Will the project day to day operations require good housekeeping practices or have a need for non-stormwater BMPs?

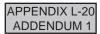
Section 7 of this Manual includes a list of source control BMPs that prevent pollution by limiting or reducing potential pollutants at their source before they come in contact with stormwater.

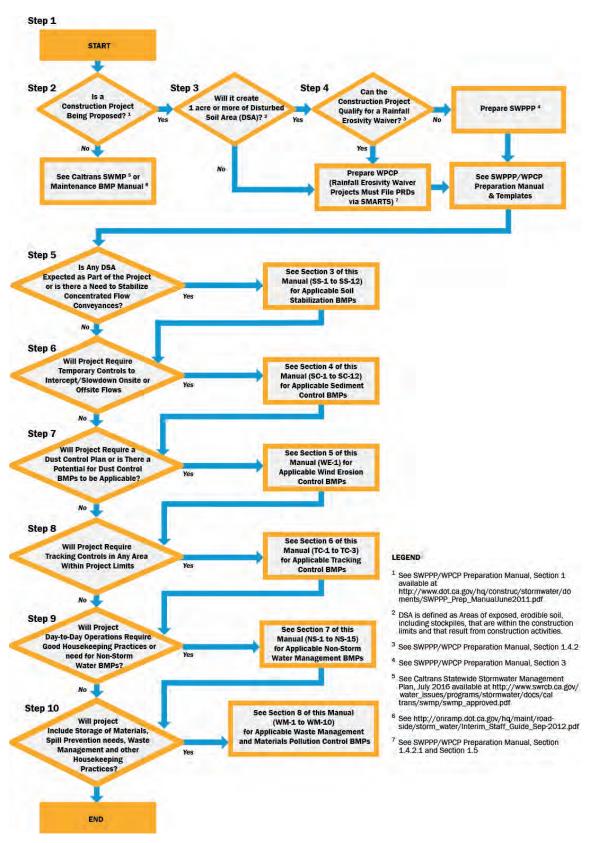
Step 10 - Will the project include storage of materials, spill prevention needs, waste management or other housekeeping practices?

All materials or wastes either stored or generated during the construction phase must be properly stored and disposed of. Section 8 of this Manual includes lists of BMPs that must be utilized at the Contractor's yard, where the materials are stored, or where construction activities are being conducted to ensure proper usage, containment, and disposal of materials and waste products.

END - Specific BMP factsheets should be reviewed and the Project's SWPPP or WPCP text and tables along with the Water Pollution Control Drawings (WPCDs) should be modified to ensure appropriate controls are implemented year-round









APPENDIX L-21

ADDENDUM 1



2.3 Minimum Construction BMPs

This section provides the minimum construction BMPs required for a project subject to the CGP or the LTCGP or one that requires the preparation and implementation of a WPCP. It is important to note that the requirements of this Section are minimum requirements, and that Caltrans contracts may impose more stringent requirements. Working details of Construction Site BMPs are presented in Sections 3 through 8 of this Manual.

Construction Site BMPs (also sometimes called temporary control practices or BMPs) are best conventional technology/best available technology (BCT/BAT)-based BMPs that are consistent with the BMPs and control practices required under the CGP and the LTCGP. Caltrans Construction Site BMPs are divided into six categories as shown in Table 2-1.

Stormwater pollution control requirements are intended to be implemented on a year-round basis at an appropriate level. The requirements must be implemented in a proactive manner during all seasons while construction is ongoing. Appropriate water pollution control includes the implementation of an effective combination of both soil stabilization and sediment controls, implementation of wind erosion, tracking controls, non-stormwater and waste management, and material pollution BMPs. Some BMPs can be implemented as a stand-alone device while others can be combined to improve effectiveness and compliance.

Section 2 of the SWPPP/WPCP Preparation Manual describes in detail specific requirements under the applicable CGP. The CGP and LTCGP both require minimum controls and require BMPs based on the projects' calculated risk level to apply linear sediment controls along the toe of the slope, face of the slope, and at the grade breaks of exposed slopes to comply with sheet flow lengths.

		Minimum	Minimum Requirement		
ID	BMP Name	CGP	LTCGP		
mporary Soil	Stabilization				
SS-1	Scheduling	Х	Х		
SS-2	Preservation of Existing Vegetation	Х	Х		
SS-3	Hydraulic Mulch				
SS-4	Hydroseeding				
SS-5	Soil Binders		X1		
SS-6	Straw Mulch	χ1			
SS-7	Temporary Cover and Rolled Erosion Control Products (RECP)				
SS-8	Wood Mulching				
SS-9	Earth Dikes/Drainage Swales & Lined Ditches	-	-		
SS-10	Outlet Protection/Velocity Dissipation Devices ²	Х	Х		
SS-11	Slope Drains	-	-		
SS-12	Streambank Stabilization	-	-		
mporary Sedi	ment Control				
SC-1	Silt Fence	X1	X 1		
SC-2	Sediment/Desilting Basin	_	_		



		Minimum	Minimum Requirement		
ID	BMP Name	CGP	LTCGP		
SC-3	Sediment Trap/Curb Cutback	-	-		
SC-4	Check Dam	-	-		
SC-5	Fiber Rolls	¥1	Χ1		
SC-6	Gravel Bag/Earthen Berm	X1			
SC-7	Street Sweeping	X	-		
SC-8	Sandbag Barrier	X	Х		
SC-9	Straw Bale Barrier	X1	X1		
SC-10	Temporary Drainage Inlet Protection	X	Х		
SC-11	Compost Sock	χ1	X 1		
SC-12	Flexible Sediment Barrier	Λ*	۸*		
/ind Erosion C	ontrol				
WE-1	Wind Erosion Control	X	Х		
racking Contro					
TC-1	Temporary Construction Entrance/Exit	X	Х		
TC-2	Temporary Construction Roadway	-	-		
TC-3	Temporary Entrance/Outlet Tire Wash	-	-		
lon-Stormwate	er Management	· · · · ·			
NS-1	Water Conservation Practices	-	-		
NS-2	Dewatering Operations	-	Х3		
NS-3	Paving, Sealing, Sawcutting and Grinding Operations	X	Х		
NS-4	Temporary Stream Crossing	-	-		
NS-5	Clear Water Diversion	-	-		
NS-6	Illegal Connection and Illicit Discharge Detection and Reporting	X	Х		
NS-7	Potable Water/Irrigation	-	-		
NS-8	Vehicle and Equipment Cleaning	X	Х		
NS-9	Vehicle and Equipment Fueling	X	Х		
NS-10	Vehicle and Equipment Maintenance	X	Х		
NS-11	Pile Driving Operations	-	-		
NS-12	Concrete Curing	-	_		
NS-13	Material and Equipment Use Over Water	_	_		
NS-14	Concrete Finishing	_	_		
NS-15	Structure Demolition/Removal Over or Adjacent to Water				



APPENDIX L-23 ADDENDUM 1
ADDENDUM 1

Table 2-1. Construction Site BMPs					
		Minimum Requirement			
ID	BMP Name	CGP	LTCGP		
aste Management and Materials Pollution Control					
WM-1	Material Delivery and Storage	Х	Х		
WM-2	Material Use	Х	Х		
WM-3	Stockpile Management	Х	Х		
WM-4	Spill Prevention and Control	Х	Х		
WM-5	Solid Waste Management	Х	Х		
WM-6	Hazardous Waste Management	Х	Х		
WM-7	Contaminated Soil Management	Х	Х		
WM-8	Concrete Waste Management	Х	Х		
WM-9	Sanitary and Septic Waste Management	Х	Х		
WM-10	Liquid Waste Management	Х	Х		

¹ Can be selected as a standalone BMP or a combination of temporary soil stabilization BMPs is selected depending on site conditions, minimum requirement is met when the individual BMP or the combination is properly implemented.

 $^{\rm 2}$ Only applicable when outlet protection/velocity dissipation is required.

³ When dewatering is expected, must have a dewatering and/or diversion plan as required under LTCGP Section N.

2.4 BMP Inspection Frequency

The SWPPP or WPCP implemented on Caltrans construction projects includes specific visual monitoring requirements to comply with the CGP, LTCGP, and/or Caltrans Permit. All BMPs deployed on construction sites must be inspected on a frequency as described below. Improperly installed or damaged BMPs must be corrected immediately, or by a later date and time if requested by the Contractor and approved by the Resident Engineer (RE) in writing. Corrections must be made before the onset of forecasted rain events. Inspections of Construction Site BMPs are to be conducted at a minimum as follows:

- Prior to a forecast storm event
- After a qualified rain event that causes runoff from the construction site
- · At 24-hour intervals during extended rain events
- · Weekly throughout the duration of the construction project

Table 2-2 shows the monitoring requirements for projects subject to CGP or LTCGP. The SWPPP/WPCP Preparation Manual includes more details on what each inspection should include.



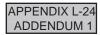


		Table 2-2. Moni	toring Requ	iirement	s for CGI	P and LTC	GP		
		Vi	Visual Inspections						
			Pr	e-Storm		Post Storm		Sampling	
R	lisk Level	Quarterly Non- stormwater Discharge	Baseline	REAP	Daily Storm BMP	Post Storm	Non- visible Pollutant	Stormwater Discharge	Receiving Water
	1	Х	х		Х	Х	X		
CGP	2	X	Х	Х	Х	X	Х	Х	
	3	X	х	Х	Х	X	X	X	Х
LTCGP	N/A	X	Х	Х	Х	Х	Х	Х	Х

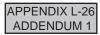


Section 3 Temporary Soil Stabilization BMP

3.1 Temporary Soil Stabilization

Temporary soil stabilization consists of preparing the soil surface and applying one of the BMPs shown in Table 3-1, or combination thereof, to disturbed soil areas. Temporary soil stabilization must be applied to disturbed soil areas of construction projects in conformance with contract documents and this Manual. Refer to Appendix B for additional guidance on the selection of temporary soil stabilization controls.





3.2 Temporary Concentrated Flow Conveyance Controls

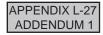
Temporary concentrated flow conveyance controls consist of a system of measures or BMPs that are used alone or in combination to intercept, divert, convey and discharge concentrated flows with a minimum of soil erosion, both on-site and downstream (off-site). Temporary concentrated flow conveyance controls may be required to direct run-on around or through the project in a non-erodible fashion. Temporary concentrated flow conveyance controls include the following BMPs:

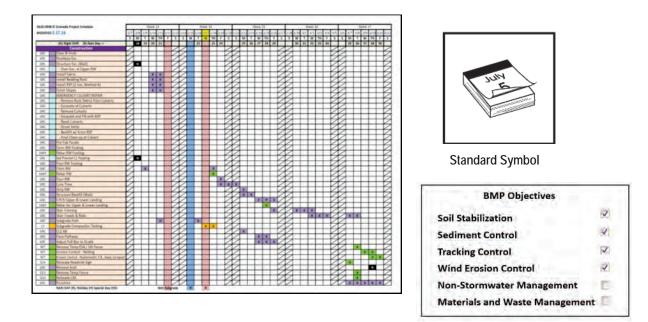
- Earth Dikes/Drainage Swales & Lined Ditches
- Outlet Protection/Velocity Dissipation Devices
- Slope Drains

Table 3-1. Temporary Soil Stabilization BMPs		
ID	BMP Name	
SS-1	Scheduling	
SS-2	Preservation of Existing Vegetation	
SS-3	Hydraulic Mulch	
SS-4	Hydroseeding	
SS-5	Soil Binders	
SS-6	Straw Mulch	
SS-7	Temporary Cover and Rolled Erosion Control Products (RECP)	
SS-8	Wood Mulching	
Temporary	Concentrated Flow Conveyance Controls	
SS-9	Earth Dikes/Drainage Swales & Lined Ditches	
SS-10	Outlet Protection/Velocity Dissipation Devices	
SS-11	Slope Drains	
SS-12	Streambank Stabilization	

The remainder of this section shows the working details for each of the BMPs.







Definition and Purpose

This BMP involves developing, for every project, a schedule that includes sequencing of construction activities with the implementation of construction site BMPs such as temporary soil stabilization and temporary sediment control measures. The purpose is to reduce the amount and duration of soil exposed to erosion by wind, rain, runoff, and vehicle tracking, and to perform the construction activities and control practices in accordance with the planned schedule.

Appropriate Applications

Construction sequencing should be scheduled to minimize land disturbance during the wetter months for all projects. In addition, any construction windows required by regulatory permits, and any winter suspension work should be described in the schedule. Appropriate BMPs must be implemented year-round.

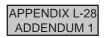
Limitations

Environmental constraints such as nesting season prohibitions reduce the full capabilities of this BMP.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017



Section 3 Scheduling SS-1 1 of 3

Standards and Specifications

General Requirements

Developing a schedule and planning the project operations to minimize erosion and the potential to discharge pollutants to stormwater are the very first steps in an effective stormwater program. The construction schedule must be incorporated into the SWPPP or WPCP. Refer to Section 8 and 13 of the Standard Specifications.

The schedule should clearly show when work activities that could pollute stormwater with sediment or other contaminants would occur (e.g., grading, move-in, move-out, stockpiling, pile driving), and when soil stabilization, sediment control, and other BMPs associated with each phase of construction would be implemented.

The schedule should include details on the implementation and deployment of:

- Temporary and permanent soil stabilization BMPs
- Temporary sediment control BMPs
- Tracking control BMPs
- Wind erosion control BMPs
- Non-stormwater BMPs, and
- Waste management and materials pollution control BMPs

The schedule should also include dates for significant long-term operations or activities that may have planned non-stormwater discharges such as dewatering, sawcutting, grinding, drilling, boring, crushing, blasting, painting, hydro-demolition, mortar mixing, bridge cleaning, etc.

The construction schedule should reflect requirements for in-water work and other construction activity with potential to disturb water and biological resources contained in regulatory agency permits and approvals (RWQCB 401 WQC, USACE 404 permit, DFG 1602 permit, etc.).

Recommendations

Schedule work to minimize soil disturbing activities during predicted rain events. Consider rescheduling activities for dry periods to minimize maintenance requirements.

Develop the sequencing and timetable for the start and completion of each item such as site clearing and grubbing, grading, excavation, paving, pouring foundations, installing utilities, etc., to minimize the active construction area.

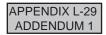
Schedule major grading operations during dryer months when practical.

Stabilize inactive areas within 15 days from the cessation of soil-disturbing activities or one day prior to the onset of precipitation, whichever occurs first. Must consider manufacturers recommendation for the selected soil stabilization BMP to ensure they meet the minimum dry time required. See Appendix B of this Manual for additional guidance.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017



Section 3

Scheduling SS-1

2 of 3

Monitor the weather forecast for storm events, which are storms that produce or are forecasted to produce at least 0.1 inch of precipitation within a 24-hour period. When rainfall is predicted, adjust the construction schedule to allow the implementation of soil stabilization, sediment controls, and, if applicable, sediment treatment controls on all disturbed areas prior to the onset of rain.

Ensure ample supply of BMP materials are on site in order to quickly mobilize and implement required BMPs, particularly ahead of rain events when materials may be in short supply or back order.

Be prepared year-round to deploy soil stabilization and sediment control practices. Erosion may be caused during dry seasons by unseasonal rainfall, wind, and vehicle tracking. Keep the site stabilized year-round, and retain and maintain sediment trapping devices in operational condition.

Sequence trenching activities so that most open portions are closed before new trenching begins. Trenched material should be stored on the upstream side of the trenches.

Incorporate staged seeding and re-vegetation of graded slopes as work progresses.

Consider the early planting and establishment of permanent vegetation in the schedule to maximize plant establishment success and minimize irrigation and continuous maintenance needs.

Apply permanent erosion control to areas deemed substantially complete during the project's defined seeding window.

Maintenance and Inspection

Verify that work is progressing in accordance with the schedule. If progress deviates, take corrective actions.

Keep the schedule up to date and ensure it is consistent with the contractor's three-week look ahead, or other routine schedule submitted to the RE under the contract.

Amend the schedule when changes are warranted or when directed by the RE.

SWPPP or WPCP

A Water Pollution Control Schedule (WPCS) must include construction operations and BMP implementation for the entire duration of the project. The WPCS is to be included as an attachment and discussed in section 500.7 of the SWPPP or Section 30.5 of the WPCP.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 3 Scheduling **SS-1** 3 of 3







Definition and Purpose

Preservation of existing vegetation is the identification and protection of desirable vegetation that provides erosion and sediment control benefits.

Appropriate Applications

Preserve existing vegetation at areas on a site where no construction activity is planned or will occur at a later date. This BMP is very applicable for multi-year or multiple location projects, where existing vegetation can be preserved until the area becomes active.

On a year-round basis, temporary fencing shall be provided prior to the commencement of clearing and grubbing operations or other soil-disturbing activities in areas.

Clearing and grubbing operations should be staged to preserve existing vegetation.

Areas where natural vegetation exists and is designated for preservation. Such areas often include steep slopes, watercourse, and building sites in wooded areas.

Areas where local, state, and federal government require preservation, such as vernal pools, wetlands, marshes, certain oak trees, etc.

Clearly marking and leaving a buffer area around these unique areas during construction will help to preserve these areas as well as take advantage of natural erosion prevention and sediment trapping.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 3





During clearing and grubbing do not injure standing trees, plants, and improvements shown in the plans to be protected.

For any trenching or tunneling. Trenching shall be as far away from tree trunks as possible, usually outside of the tree drip line or canopy. Curve trenches around trees to avoid large roots or root concentrations. If roots are encountered, consider tunneling under them.

When trenching and/or tunneling near or under trees to be retained, tunnels shall be at least 8 in below the ground surface, and not below the tree center to minimize impact on the roots. Tree roots shall not be left exposed to air; they shall be covered with soil as soon as possible, protected, and kept moistened with wet burlap or peat moss until the tunnel and/or trench can be completed.

Limitations

Protection of existing vegetation requires planning, and may limit the area available for construction activities.

For sites with diverse topography, it is often difficult and expensive to save existing trees while grading the site satisfactory for the construction project.







Standards and Specifications

General Requirements

Specifications for preservation of existing vegetation can be found in Standard Specifications Section 5-1.36A.

Section 14 "Environmental Stewardship" of the Standard Specifications specifies the requirements related to environmental compliance and resource management, including requirements related to Environmentally Sensitive Areas (ESAs).

Refer to Section 16-2.03 of the Standard Specifications for "High-Visibility Fences" used to delineate ESAs.

Refer to 16-2.04 of the Standard Specifications for "Temporary Construction Mats" used to protect wetlands and other areas.

Schedule

Preservation of existing vegetation must be provided prior to the commencement of clearing and grubbing operations or other soil-disturbing activities in areas identified on the plans to be preserved, including areas designated as ESAs.

Preservation of existing vegetation should conform to scheduling requirements set forth in the special provisions.

Design and Layout

Mark areas to be preserved with temporary fencing (Type ESA). The temporary fencing must be made of high visibility fabric secured with 6 foot (minimum) posts. Refer to Section 16-2.03B of the Standard Specifications for more information on temporary high-visibility fence materials.

Fence posts can be either wood or steel, at the Contractor's discretion, as appropriate for the intended purpose. The post spacing must be 8 feet center-to-center (maximum) and embedded at least 16 inches into the ground to completely support the fence in an upright position.

See Standard Plan T65 for "Temporary Fence (Type ESA)."

Installation

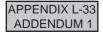
Construction materials, equipment storage, and parking areas should be located where they will not cause damage to vegetation designated for preservation. This could include: keeping equipment away from trees to prevent trunk and root damage, considering the impact of grade changes to existing vegetation and the root zone, and minimizing disturbed areas by avoiding stands of trees and shrubs and following existing contours to reduce cutting and filling for temporary roads.

Maintain existing irrigation systems.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 3



Employees and subcontractors must be instructed to honor protective devices. No heavy equipment, vehicular traffic, or storage piles of any construction materials is permitted within the drip line of any tree to be retained. Removed trees should not be felled, pushed, or pulled into any retained trees. Fires should not be permitted within 100 ft of the drip line of any retained trees. Any fires must be of limited size, and must be kept under continual surveillance. No toxic or construction materials (including paint, acid, nails, gypsum board, chemicals, fuels, and lubricants) should be stored within 50 feet of the drip line of any retained trees, nor disposed of in any way which would injure vegetation.

After all other work is complete, fences and barriers must be removed last. This is because protected trees may be destroyed by carelessness during the final cleanup and landscaping.

Maintenance and Inspection

During the entire construction phase, the limits of disturbance must remain clearly marked to avoid damage to the existing vegetation during site cleanup and stabilization. Irrigation or maintenance of existing vegetation must conform to the requirements in the landscaping plan. If damage to protected trees still occurs, maintenance guidelines described below must be followed:

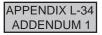
- Serious tree injuries must be attended to by an arborist.
- During construction, the District Environmental Branch must be contacted to ensure that ESAs are
 protected and any environmental regulations are followed.
- Existing Vegetated Areas to be Preserved must be clearly demarcated in the WPCDs.

SWPPP or WPCP

Preservation of Existing Vegetation must be discussed in Section 500.3 of the SWPPP or Section 30.2 of the WPCP.



Section 3





5 of 5

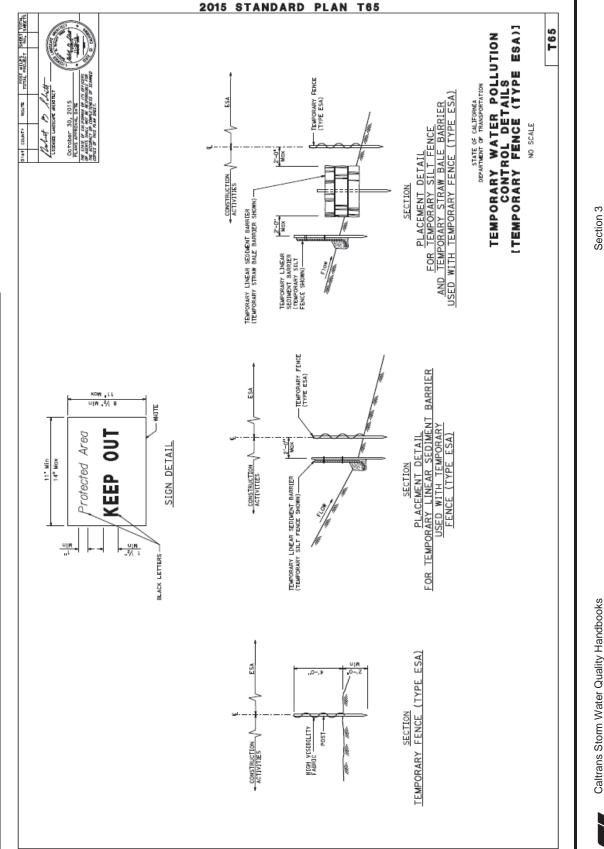
Preservation of Existing Vegetation SS-2

Construction Site BMP Manual

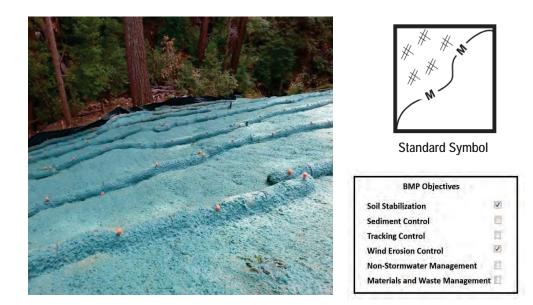
May 2017

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Caltrans Storm Water Quality Handbooks



SS-2



Definition and Purpose

Hydraulic mulch consists of applying a mixture of natural fibers and a stabilizing compound with hydroseeding equipment to temporarily protect exposed soil from erosion by raindrop impact or wind. This is one of five temporary soil stabilization alternatives to consider.

Appropriate Applications

Hydraulic mulch is applied to disturbed areas requiring temporary protection until permanent vegetation is established, or disturbed areas that must be re-disturbed following an extended period of inactivity.

Limitations

Wood fiber hydraulic mulches are generally short-lived (only last a part of a growing season) and require (24 hours or more) time to dry before rainfall occurs to be effective.

Paper mulches are not permitted.

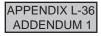
Avoid use in areas where the mulch would be incompatible with immediate future earthwork activities and would have to be removed.

Cellulose fiber mulches alone may not perform well on steep slopes or in coarse soils.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 3 Hydraulic Mulch **SS-3**



Standards and Specifications

General Requirements

See Standard Specifications Section 13-5.03D to 13-5.03G for placing various types of hydraulic mulch.

Standard Specifications Section 21-2.02D and 21-2.02E contain material specifications for fiber and tackifier, respectively.

A certificate of compliance, as required under Standard Specifications Section 21-2.01C(4), is required for tackifier and bonded fiber matrix (BFM).

Hydraulic matrices require time to dry before rainfall occurs to be effective. Refer to the manufacturer's specifications for drying times.

Avoid mulch over-spray onto the traveled way, sidewalks, lined drainage channels, and existing vegetation.

Selection of hydraulic mulches by the Contractor must be approved by a licensed professional.

Prior to application, roughen embankment and fill areas by rolling with a crimping or punching type roller or by track walking. Track walking should only be used where other methods are impractical.

Temporary Hydraulic Mulch

Temporary hydraulic mulch contains mixtures of fiber and tackifier that is applied to soil with hydraulic spray equipment.

Fiber for temporary hydraulic mulch must be at least 50 percent wood fiber. The remaining percentage must be cellulose fiber, alternate fiber, or a combination of these fibers.

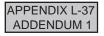
Temporary hydraulic mulch application rates must follow the manufacturer's recommendations. If not provided, apply at a rate of 2,000 lb/ac.

Tackifier should be applied per the manufacturer's instructions for the slope, soil, and wind conditions



Section 3

Hydraulic Mulch SS-3



Temporary BFM Hydraulic Mulch

BFM contains 100% wood fiber and tackifier, sometimes combined with seed and fertilizer that is applied to soil hydraulically.

BFM applications rates must follow the manufacturer's recommendations. If not provided, apply at a rate of 3,500 lb/ac.

Tackifier used for BFM must be:

- Bonded to the fiber or prepackaged with the fiber by the manufacturer
- Contain a minimum of 10 percent of the combined weight of the dry fiber, activating agents, and additives
- Organic, high viscosity colloidal polysaccharide with activating agents or a blended hydrocolloidbased binder

Temporary Cementitious Binder Hydraulic Mulch

Temporary cementitious binder hydraulic mulch is a mixture of fiber and a cementitious binder that is applied to soil with hydraulic spray equipment.

Application rates of temporary cementitious binder hydraulic mulch must be according to the manufacturer's specifications. If not provided, apply at a rate of 2,000 lb/ac and cementitious binder at 4,000 lb/ac.

Additional standards for cementitious binder are provided in Section 13 5.03G.

Additional guidance on the selection of soil stabilization BMPs can be found in Appendix B of this Manual.

Maintenance and Inspection

A certificate of compliance under Standard Specifications Section 21-2.01C(4) for the applicable BMP must be submitted to the RE prior to application to ensure proper mix is being used.

It is recommended that a small test area/mock-up occurs prior to large area application to verify sufficient cover for the approved mix.

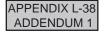
Maintain an unbroken, temporary mulched ground cover throughout the period of construction when the soils are not being reworked. Inspect before expected rain storms and repair any damaged ground cover and re mulch exposed areas of bare soil.

After any rainfall event, the Contractor is responsible for maintaining all slopes to prevent erosion.

Areas where Hydraulic Mulch will be implemented must be shown in the WPCDs and match site conditions.



Section 3 Hydraulic Mulch SS-3





SWPPP or WPCP

Hydraulic Mulch, Temporary BFM Hydraulic Mulch or Temporary Cementitious Hydraulic Mulch must be discussed in Section 500.3 of the SWPPP or Section 30.2 of the WP



Construction Site BMP Manual May 2017

> APPENDIX L-39 ADDENDUM 1

Section 3

Hydraulic Mulch SS-3



Definition and Purpose

Hydroseeding typically consists of applying a mixture of wood, fiber, seed, fertilizer, and stabilizing emulsion with hydromulch equipment, which temporarily protects exposed soils from erosion by water and wind.

Appropriate Applications

Hydroseeding is applied on disturbed soil areas requiring temporary protection until permanent vegetation is established or disturbed soil areas that must be re-disturbed following an extended period of inactivity.

Can be used in conjunction with other rolled erosion control products.

Limitations

Hydroseeding may be used alone only when there is sufficient time in the season to ensure adequate vegetation establishment and erosion control. Otherwise, hydroseeding must be used in conjunction with a soil binder or mulch, such as SS-5 "Soil Binders" and SS-6 "Straw Mulch."

Steep slopes are difficult to protect with temporary seeding.

Temporary seeding may not be appropriate in dry periods without supplemental irrigation.

Temporary vegetation may have to be removed before permanent vegetation is applied.

Temporary vegetation is not appropriate for short-term inactivity.



Caltrans Storm Water Quality Handbooks Construction Site BMP Manual May 2017

> APPENDIX L-40 ADDENDUM 1

Section 3

Hydroseeding SS-4

622

Hydroseeding should not be used in areas subject to heavy traffic.

Could trigger non-visible sampling if the appropriate application timeframe (before a rain event) and manufacturer recommendations are not followed.

Standards and Specifications

General Requirements

Refer to Standard Specifications Section 13-5.03I "Temporary Hydroseed."

To select appropriate hydroseeding mixtures, an evaluation of site conditions shall be performed with respect to:

Soil conditions Maintenance requirements

Site topography– Sensitive adjacent areas

Season and climate – Water availability

Vegetation types- Plans for permanent vegetation

Selection of hydroseeding mixtures must be approved by the licensed professional.

Seed mix must comply with Standard Specifications Section 21-2.02F "Seed," and the project's special provisions.

Seed may be dry applied to small areas not accessible by hydroseeding equipment if authorized.

Seeds must not contain seeds of prohibited noxious weeds and more than 1.0% total weed seed by weight. Seeds must be delivered to the project site with each species in separate, unopened containers with the seed tag attached. Measure individual seed species and mix in the presence of the RE.

Fiber must be at least 50 percent wood fiber. The remaining percentage must be cellulose fiber, alternate fiber, or a combination of these fibers.

Commercial fertilizer must conform to the requirements of the California Food and Agricultural Code. Fertilizer can be pelleted or granular form.

Application Procedures

Prior to application, roughen the slope, fill area, or area to be seeded with the furrows trending along the contours. Rolling with a crimping or punching type roller or track walking is required on all slopes prior to hydroseeding. Track walking should only be used where other methods are impractical.

Add water to hydroseed materials as recommended by the manufacturer and mix sufficiently to ensure an even application. A dispersing agent may be added to the mixture if authorized.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 3 Hydroseeding **SS-4**



Equipment must have a built-in continuous agitation and discharge system capable of producing a homogeneous mixture and a uniform application rate. The tank must have a minimum capacity of 1,000 gallons. A smaller tank can be used if authorized by the RE.

Apply temporary hydroseed at the following rates:

- Apply seed at rates specified in the project's erosion control plans.
- Apply fiber at 2,000 lb/ac.
- Apply tackifier according to manufacturer's recommendations for the slope, soil, and wind conditions.
- Apply materials in locations, rates, and number of applications shown and as follows:
- Start application within 60 minutes after adding seed to the tank.
- Apply in successive passes as necessary to achieve the specified application rate.
- Apply all hydroseed materials shown for a single area within 72 hours.

If hydroseed materials are applied to areas covered by Rolled Erosion Control Products (RECP), apply hydroseed materials to the RECP as follows:

- Verify the RECP is in uniform contact with the slope surface.
- Spray materials into the RECP perpendicular to the slope and integrate well.
- Do not displace or damage the RECP.
- After the final application, do not allow pedestrians or equipment on the treated areas.
- Follow-up applications shall be made as needed to cover weak spots, and to maintain adequate soil protection.
- Avoid over-spray onto the traveled way, sidewalks, lined drainage channels, and existing vegetation.

Additional guidance on the selection of soil stabilization BMPs can be found in Appendix B of this Manual.

Maintenance and Inspection

All seeded areas must be inspected for failures and re-seeded, fertilized, and mulched within the planting season, using not less than half the original application rates. Any temporary revegetation efforts that do not provide adequate cover must be reapplied at a scheduled recommended by the licensed professional.

A certificate of compliance under Standard Specifications Section 21-2.01C(4) for the applicable BMP must be submitted to the RE prior to application to ensure proper mix is being used.

It is recommended that a small test area/mock-up occurs prior to large area application to verify sufficient cover for the approved mix.

After any rain event, the Contractor is responsible for maintaining all slopes to prevent erosion.

Areas where Hydroseeding will be implemented must be shown in the WPCDs. Application timeframes (dates) must be included in the WPCS.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

> APPENDIX L-42 ADDENDUM 1

Section 3

Hydroseeding SS-4

Must ensure correct application rates and passes (different directions) take place to ensure adequate coverage.

SWPPP or WPCP

Hydroseeding must be discussed in Section 500.3.2 of SWPPP or Section 30.2 of the WPCP.



Construction Site BMP Manual May 2017

> APPENDIX L-43 ADDENDUM 1

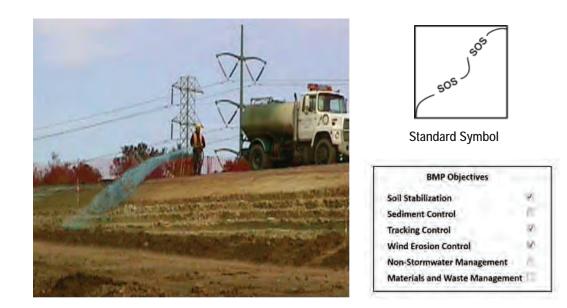
Section 3

Hydroseeding SS-4

4 of 4

625

Soil Binders



Definition and Purpose

Soil binders consist of applying and maintaining a soil stabilizer to exposed soil surfaces. Soil binders are materials applied to the soil surface to temporarily prevent water-induced erosion of exposed soils on construction sites. Soil binders also provide temporary dust, wind, and soil stabilization (erosion control) benefits. This is one of five temporary soil stabilization alternatives to consider.

Appropriate Applications

Soil binders are typically applied to disturbed areas requiring short-term temporary protection. Because soil binders can often be incorporated into the work, they may be a good choice for areas where grading activities will soon resume. Application on stockpiles to prevent water and wind erosion.

Limitations

Soil binders are temporary in nature and may need reapplication.

Soil binders require a minimum curing time until fully effective, as prescribed by the manufacturer. Soil binders may need reapplication after a storm event.

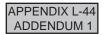
Soil binders will generally experience spot failures during heavy rainfall events. If runoff penetrates the soil at the top of a slope treated with a soil binder, it is likely that the runoff will undercut the stabilized soil layer and discharge at a point further down slope.

Soil binders do not hold up to pedestrian or vehicular traffic across treated areas.



May 2017

Caltrans Storm Water Quality Handbooks Construction Site BMP Manual



Section 3

Soil Binders SS-5

Soil binders may not penetrate soil surfaces made up primarily of silt and clay, particularly when compacted.

Some soil binders may not perform well with low relative humidity. Under rainy conditions, some agents may become slippery or leach out of the soil.

May not cure if low temperatures occur within 24 hours of application.

Standards and Specifications

General Requirements

Site-specific soil types will dictate appropriate soil binders to be used.

A soil binder must be environmentally benign (non-toxic to plant and animal life), easy to apply, easy to maintain, economical, and shall not stain paved or painted surfaces, refer to Standard Specifications Section 13,18 and 21.

Some soil binders are compatible with existing vegetation.

Performance of soil binders depends on temperature, humidity, and traffic across treated areas.

Avoid over-spray onto the traveled way, sidewalks, lined drainage channels, and existing vegetation.

Storm water quality runoff sampling is required for many soil binders. Per table 5-1, footnote 7, of the 2013 Construction Site Monitoring Program Guidance Manual the following copolymers/polymers do not discharge pollutants and water quality sampling and analysis is not required Super Tak, M-binder, Fish Stik, Pro40dc, Fisch-Bond, Soil Master WR and EarthGuard.

Soil Binders Applications

After selecting an appropriate soil binder, the untreated soil surface must be prepared before applying the soil binder. The untreated soil surface must contain sufficient moisture to assist the agent in achieving uniform distribution. In general, the following steps shall be followed::

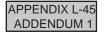
- Follow manufacturer's recommendations for application rates, pre-wetting of application area, and cleaning of equipment after use.
- Prior to application, roughen embankment and fill areas by rolling with a crimping or punching type roller or by track walking. Track walking shall only be used where rolling is impractical.
- Consider the drying time for the selected soil binder and apply with sufficient time before anticipated rainfall. Soil binders shall not be applied during or immediately before rainfall.
- Avoid over-spray onto the traveled way, sidewalks, lined drainage channels, sound walls, and existing vegetation.
- Soil binders shall not be applied to frozen soil, areas with standing water, under freezing or rainy conditions, or when the air temperature is below 4oC (40oF) during the curing period.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 3

Soil Binders SS-5



- More than one treatment is often necessary, although the second treatment may be diluted or have a lower application rate.
- Generally, soil binders require a minimum curing time of 24 hours before they are fully effective.
 Refer to manufacturer's instructions for specific cure times.

For liquid agents:

- Crown or slope ground to avoid ponding.
- Uniformly pre-wet ground at0.03 to 0.3 gal/yd2 or according to manufacturer's recommendations.
- Apply solution under pressure. Overlap solution 6 to 12 in.
- Allow treated area to cure for the time recommended by the manufacturer; typically, at least 24 hours.
- In low humidities, reactivate chemicals by re-wetting with water at 0.1 to 0.2 gal/yd2.

Selecting a Soil Binder

Properties of common soil binders used for erosion control are provided in Table 1 and Appendix B. Use Table 1 to select an appropriate soil binder.

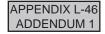
Table 1 Properties of Soil Binders for Erosion Control							
Chemicals	Plant Material Based (Short Lived)	Plant Material Based (Long Lived)	Polymeric Emulsion Blends	Cementitious-Based Binders			
Relative Cost	Low	Low	Low	Low			
Resistance to Leaching	High	High	Low to Moderate	Moderate			
Resistance to Abrasion	Moderate	Low	Moderate to High	Moderate to High			
Longevity	Short to Medium	Medium	Medium to Long	Medium			
Minimum Curing Time before Rain	9 to 18 hours	19 to 24 hours	0 to 24 hours	4 to 8 hours			
Compatibility with Existing Vegetation	Good	Poor	Poor	Poor			
Mode of Degradation	Biodegradable	Biodegradable	Photodegradable/ Chemically Degradable	Photodegradable/ Chemically Degradable			
Labor Intensive	No	No	No	No			
Specialized Application Equipment	Water Truck or Hydraulic Mulcher	Water Truck or Hydraulic Mulcher	Water Truck or Hydraulic Mulcher	Water Truck or Hydraulic Mulcher			
Liquid/Powder	Powder	Liquid	Liquid/Powder	Powder			
Surface Crusting	Yes, but dissolves on rewetting	Yes	Yes, but dissolves on rewetting	Yes			
Clean-Up	Water	Water	Water	Water			
Erosion Control Application Rate	Varies (1)	Varies (1)	Varies (1)	4,500 to 13,500 kg/ha			
(1) Dependent upon product, soil type, and slope inclination							





Section 3

Soil Binders SS-5



Factors to consider when selecting a soil binder include the following:

- Suitability to situation Consider where the soil binder will be applied; determine if it needs a high resistance to leaching or abrasion, and whether it needs to be compatible with any existing vegetation. Determine the length of time soil stabilization will be needed, and if the soil binder will be placed in an area where it will degrade rapidly. In general, slope steepness is not a discriminating factor for the listed soil binders.
- Soil types and surface materials Fines and moisture content are key properties of surface materials.
 Consider a soil binder's ability to penetrate, likelihood of leaching, and ability to form a surface crust on the surface materials.
- Frequency of application The frequency of application can be affected by subgrade conditions, surface type, climate, and maintenance schedule. Frequent applications could lead to high costs. Application frequency may be minimized if the soil binder has good penetration, low evaporation, and good longevity. Consider also that frequent application will require frequent equipment clean-up.

After considering the above factors, the soil binders in Table 1 will be generally appropriate as follows:

Plant Material Based (Short Lived)

Guar: Guar gum based tackifier must be derived from the ground endosperm of the guar plant, *Cyanmopsis tetragonolobus.* It must be treated with dispersing agents for easy mixing.. It shall be diluted at the rate of 1 to 5 lb per 100 gallons of water, depending on application machine capacity. Recommended minimum application rates are as follows:

Application Rates for Guar Soil Stabilizer						
Slope (V:H):	Flat	1:4	1:3	1:2	1:1	
Kg/Ha:	45	50	56	67	78	
lb/ac	40	45	50	60	70	

Psyllium: Psyllium is composed of the finely ground muciloid coating of plantago seeds that is applied as a dry powder or in a wet slurry to the surface of the soil. It dries to form a firm but rewettable membrane that binds soil particles together but permits germination and growth of seed. Psyllium requires 12 to 18 hours drying time. Psyllium shall be applied at a rate of 80 to 200 lb/ac, with enough water in solution to allow for a uniform slurry flow.

Starch: Starch is non-ionic, water soluble granular cornstarch. The material is mixed with water and applied at the rate of 150 lb/ac. Approximate drying time is 9 to 12 hours.

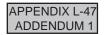
Plant Material Based (Long Lived)

Pitch and Rosin Emulsion: Generally, a non-ionic pitch and rosin emulsion has a minimum solids content of 48%. The rosin shall be a minimum of 26% of the total solids content. The soil stabilizer shall be non-



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017



Section 3

Soil Binders SS-5

corrosive, water-dilutable emulsion that upon application cures to a water insoluble binding and cementing agent. For soil erosion control applications, the emulsion is diluted and shall be applied as follows:

For clayey soil: 5 parts water to 1 part emulsion

For sandy soil: 10 parts water to 1 part emulsion

Application can be by water truck or hydraulic seeder with the emulsion/product mixture applied at the rate specified by the manufacturer. Approximate drying time is 19 to 24 hours.

Polymeric Emulsion Blends

Acrylic Copolymers and Polymers: Polymeric soil stabilizers shall consist of a liquid or solid polymer or copolymer with an acrylic base that contains a minimum of 55% solids. The polymeric compound shall be handled and mixed in a manner that will not cause foaming or shall contain an anti-foaming agent. The polymeric emulsion shall not exceed its shelf life or expiration date; manufacturers shall provide the expiration date. Polymeric soil stabilizer shall be readily miscible in water, non-injurious to seed or animal life, non-flammable, shall provide surface soil stabilization for various soil types without totally inhibiting water infiltration, and shall not re-emulsify when cured. The applied compound shall air cure within a maximum of 36 to 48 hours. Liquid copolymer shall be diluted at a rate of 10 parts water to 1 part polymer and applied to soil at a rate of 1,175 gal/ac.

Liquid Polymers of Methacrylates and Acrylates: This material consists of a tackifier/sealer that is a liquid polymer of methacrylates and acrylates. It is an aqueous 100% acrylic emulsion blend of 40% solids by volume that is free from styrene, acetate, vinyl, ethoxylated surfactants or silicates. For soil stabilization applications, it is diluted with water in accordance with manufacturer's recommendations, and applied with a hydraulic seeder at the rate of 20 gal/ac. Drying time is 12 to 18 hours after application.

Copolymers of Sodium Acrylates and Acrylamides: These materials are non-toxic, dry powders that are copolymers of sodium acrylate and acrylamide. They are mixed with water and applied to the soil surface for erosion control at rates that are determined by slope gradient:

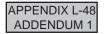
Slope Gradient (V:H)	kg/ha (lb/ac)		
Flat to 1:5	3-5		
1:5 to 1:3	5-10		
1:2 to 1:1	10-20		

Poly-Acrylamide and Copolymer of Acrylamide: Linear copolymer polyacrylamide is packaged as a dry-flowable solid. When used as a stand-alone stabilizer, it is diluted at a rate of 1 lb/100 gal of water and applied at the rate of 5 lb/ac.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017



Section 3 Soil Binders **SS-5**

Hydro-Colloid Polymers: Hydro-Colloid Polymers are various combinations of dry-flowable polyacrylamides, copolymers and hydro-colloid polymers that are mixed with water and applied to the soil surface at rates of 53 to 62 lb/ac. Drying times are 0 to 4 hours.

Cementitious Based Binders

Gypsum: This is a formulated gypsum-based product that readily mixes with water and mulch to form a thin protective crust on the soil surface. It is composed of high purity gypsum that is ground, calcined and processed into calcium sulfate hemihydrate with a minimum purity of 86%. It is mixed in a hydraulic seeder and applied at rates 4,000 to 12,000 lb/ac. Drying time is 4 to 8 hours.

Additional guidance on the selection of soil stabilization BMPs can be found in Appendix B of this Manual.

Maintenance and Inspection

Reapplying the selected soil binder may be needed for proper maintenance. High traffic areas shall be inspected daily, and lower traffic areas shall be inspected weekly.

A certificate of compliance under Standard Specifications Section 21-2.01C(4) must be submitted to the RE prior to application.

It is recommended that a small test area/mock-up occurs prior to large area application to verify sufficient cover for the approved mix.

After any rainfall event, the Contractor is responsible for maintaining all slopes to prevent erosion.

Maintain an unbroken, temporary stabilized area while DSAs are inactive. Repair any damaged stabilized area and re-apply soil binder to exposed areas.

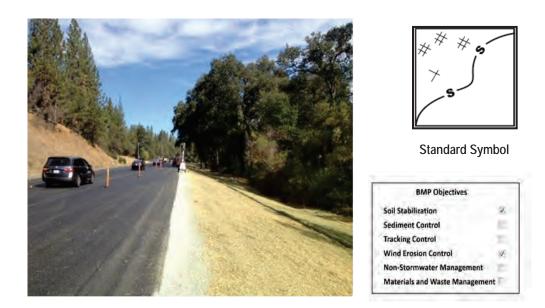
Cleaning of equipment must be done in a designated area that can collect the water to prevent triggering of non-visible and non-stormwater requirements.

SWPPP or WPCP

Soil Binders must be discussed in Section 500.3.2 of the SWPPP or Section 30.2 of the WPCP.







Definition and Purpose

Straw mulch consists of placing a uniform layer of straw and incorporating it into the soil with a studded roller, or anchoring it with a tackifier or Rolled Erosion Control Product (RECP). This is one of the temporary soil stabilization alternatives to consider.

Appropriate Applications

Straw mulch is typically used for soil stabilization as a temporary surface cover on disturbed areas until soils can be prepared for revegetation and permanent vegetation is established.

Also typically used in combination with temporary and/or permanent seeding strategies to enhance plant establishment.

Limitations

Availability of erosion control contractors and straw may be limited prior to the rain events due to high demand.

There is a potential for introduction of weed-seed and unwanted plant material.

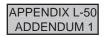
Straw mulch applied by hand is more time intensive and potentially costly.

May have to be removed prior to permanent seeding or soil stabilization.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017



Section 3 Straw Mulch **SS-6** "Punching" of straw does not work in sandy soils, must use a tackifier.

Standards and Specifications

General Requirements

Straw and tackifier must conform to Standard Specifications Sections 21-2.02H, 21.2-03G and 21-2.02E.

Submit a certificate of compliance for straw before application. If weed-free straw is used, the certificate of compliance must include the certificate of quarantine compliance.

Straw must be derived from wheat, rice, or barley.

A tackifier is the preferred method for anchoring straw mulch to the soil on slopes.

Selected tackifier must be environmentally benign (non-toxic to plants and animal life) and does not pose a threat to water quality.

Crimping, "punch" roller-type rollers, or track-walking may also be used to incorporate straw mulch into the soil on slopes. Track walking shall only be used where other methods are impractical.

Avoid placing straw onto the traveled way, sidewalks, lined drainage channels, sound walls, and existing vegetation.

Straw mulch with tackifier should not be applied during or immediately before a rain event.

Application Procedures

Apply loose straw at the rate indicated either by machine or by hand distribution.

The straw mulch must be evenly distributed on the soil surface.

Straw may be anchored in place by incorporating it into soil or using a tackifier. Additionally, in small areas and/or steep slopes, straw mulch can also be held in place using Rolled Erosion Control Product. Refer to BMP SS-7, "Temporary Cover and Rolled Erosion Control Products."

If a tackifier will be used to anchor the straw mulch in lieu of incorporation, roughen embankment or fill areas by rolling with a crimping or punching-type roller. Track walking should only be used where rolling is impractical.

A tackifier acts to glue the straw fibers together and to the soil surface. Factors influencing tackifier selection include longevity and ability to hold the fibers in place.

Apply tackifier according to the manufacturer's instructed rate for the slope, soil, and wind conditions.

If incorporation of straw mulch into soil is the selected method for anchoring, then do as follows:

• A spade or shovel can be used to incorporate straw into soil in small areas.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

> APPENDIX L-51 ADDENDUM 1

Section 3

Straw Mulch SS-6

On slopes with soils that are stable enough and of sufficient gradient to safely support construction equipment without contributing to compaction and instability problems, straw can be "punched" into the ground using a knife-blade roller or a straight bladed coulter, known commercially as a "crimper" under Section 21-2.03J of the Standard Specifications.

Maintenance and Inspection

Straw needs to last long enough to achieve erosion control objectives.

Maintain an unbroken, temporary mulched ground cover while DSAs are inactive. Repair any damaged ground cover and re-mulch exposed areas.

Reapplication of straw mulch and tackifier may be required by the RE to maintain effective soil stabilization over disturbed areas and slopes.

After any rainfall event, the Contractor is responsible for maintaining all slopes to prevent erosion.

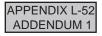
SWPPP or WPCP

Straw Mulch must be discussed in Section 500.3.2 of the SWPPP or Section 30.2 of the WPCP.

Construction Site BMP Manual May 2017



Straw Mulch SS-6



APPENDIX L-53 ADDENDUM 1

Temporary Cover and Rolled Erosion Control Products



This BMP involves the placement of geosynthetics, turf reinforcement mats, plastic covers, or rolled erosion control products (RECPs), including erosion control blankets, to stabilize disturbed soil areas and protect soils from erosion by wind or water. This is one of the temporary soil stabilization alternatives to consider.

Appropriate Applications

These measures are used when disturbed soils may be particularly difficult to stabilize, including the following situations:

- Steep slopes, generally steeper than 3:1 (H:V).
- Slopes where the erosion potential is high.
- Slopes and disturbed soils where mulch must be anchored.
- Disturbed areas where plants are slow to develop.
- Channels with flows exceeding 3 ft/s.
- Channels to be vegetated.
- Slopes adjacent to receiving waters or ESAs.

Standards for plastic sheeting used for stockpile covers are provided in Section 14-11.05A of the Standard Specifications.



Caltrans Storm Water Quality Handbooks



Standard Symbol **BMP** Objectives Soil Stabilization Sediment Control Tracking Control Wind Erosion Control Non-Stormwater Management

Materials and Waste Management



Section 3

1 of 10

Temporary Cover and Rolled Erosion Control Products SS-7



Limitations

Blankets and mats are typically more expensive than other erosion control measures, due to labor and material costs. This usually limits their application to areas inaccessible to hydraulic equipment, or where other measures are not applicable, such as channels.

May delay seed germination due to reduction in soil temperature.

Plastic netting should not be used when regulatory permits prohibit their use or if there is a potential for plastic netting to endanger wildlife.

Blankets and mats are generally not suitable for excessively rocky sites or areas where the final vegetation will be mowed (since staples and netting can catch in mowers).

Blankets and mats should be removed and disposed of prior to application of permanent soil stabilization measures as required by the contract plans. Long-term erosion control blankets must be Class 8 Rock Slope Protection fabric.

Plastic sheeting is easily vandalized, easily torn, photodegradable, and must be disposed of at a landfill and requires extensive inspection and maintenance.

Plastic results in 100 percent runoff, which may cause serious erosion problems in the downstream areas receiving the increased flow.

The use of plastic should be limited to covering stockpiles, or very small graded areas for short periods of time (such as through one imminent storm event), until alternative measures, such as seeding and mulching, can be installed.

Geosynthetics, mats, plastic covers, and RECPs have maximum flow rate limitations; consult the manufacturer for proper selection.

Additional guidance for selection of soil stabilization BMPs is provided in Appendix B of this Manual.

Standards and Specifications

Material Selection

There are many types of temporary cover material and RECPs, and selection of the appropriate type is based on the specific type of application and site conditions. Selection(s) made by the Contractor must be approved by the Resident Engineer; certification of compliance must be in accordance with Standard Specifications Sections 6-2 and 21-2.01C and 21-2.02O.

Temporary Cover: Geosynthetics

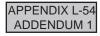
Material shall be a woven polypropylene fabric with minimum thickness of 0.06 inch, minimum width of 12 feet and meet all requirements of Standard Specification Section 96-1 Temporary Cover. Material shall have



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 3

Temporary Cover and Rolled Erosion Control Products SS-7



a minimum tensile strength of 150 lb (warp) and 80 lbs (fill) in conformance with the requirements in ASTM Designation: D 4632. The permittivity of the fabric must be approximately 0.07 sec –1 in conformance with the requirements in ASTM Designation: D4491. The fabric must have an ultraviolet (UV) stability of 70 percent in conformance with the requirements in ASTM designation: D4355. Geotextile blankets should be secured in place with wire staples or sandbags and by keying into tops of slopes and edges to prevent infiltration of surface water. Staples should be made of minimum 16 gauge steel wire and be U-shaped with 8-inch legs and 2-inch crown.

Geotextiles may be reused if, in the opinion of the RE, they are suitable for the use intended.

Submit a certificate of compliance for each type of geosynthetic material used.

Temporary Cover: Plastic Sheeting

Plastic sheeting shall comply with Standard Specification Section 13-5 and 96-1 which requires a minimum thickness of 0.39 inches, and be keyed in at the top of slope and firmly held in place with gravel-filled bags placed no more than 6 feet apart or other weights authorized by the RE. Seams are typically taped or weighted down their entire length, and there should be at least a 12 to 24 inches overlap of all seams. Edges must be embedded a minimum of 6 inches in soil.

All sheeting must be inspected periodically after installation and after rain events to check for erosion, undermining, and anchorage failure. Any failures must be repaired immediately. If washout or breakages occurs, the material should be re-installed after repairing the damage to the slope or area.

Rolled Erosion Control Products

RECPs are typically composed of jute fibers, curled wood fibers, straw, coconut fiber, or a combination of these materials. For an RECP to be considered 100 percent biodegradable, the netting, sewing or adhesive system that holds the biodegradable mulch fibers together must also be biodegradable.

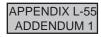
- Jute mesh is made from a natural fiber that is spun into a yarn, then loosely woven into a biodegradable mesh. It is designed to be used in conjunction with vegetation and has longevity of approximately one year. The material is supplied in rolled strips that are secured to the soil with steel U-shaped staples. Jute mesh shall comply with all requirements of Jute mesh table included in Standard Specification Section 21-2.
- Erosion control blanket is a machine-produced mat made of processed natural fibers that are bound together to form a continuous matrix surrounded by two natural nets. The processed natural fibers comprising the matrix of the blanket may be a mixture of straw (70 percent) and coconut (30 percent), woven coir (100 percent), or excelsior (curled wood fiber) (80 percent). Erosion control blankets must be furnished in rolled strips a minimum of 72 inches wide, and secured in place with steel U-shaped staples. Erosion control blankets must also comply with Section 21-2.02O(4) of the Standard Specifications.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Temporary Cover and Rolled Erosion Control Products SS-7





Netting consists of pure coconut fibers, or coir, woven into a matrix. Coir netting must be furnished in rolled strips a minimum of 72 to 158 inches in width and 0.3 inches thick. There are three classes of coir netting: Type A, Type B, and Type C. See Section 21-2.02O(3) of the Standard Specifications for the minimum requirements for each type of netting.

Non-biodegradable RECPs are typically composed of polypropylene, polyethylene, nylon or other synthetic fibers. In some cases, a combination of biodegradable and synthetic fibers is used to construct the RECP. Netting used to hold these fibers together is typically non-biodegradable as well. Check contract special provisions to determine whether non-biodegradable products are not to be used based on regulatory requirements.

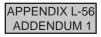
- Turf reinforcement mat is a nondegradable, open-weave textile made of synthetic fibers, filaments, nets, wire mesh, or other elements processed into a permanent three-dimensional matrix. Turf reinforcement mats must be a minimum of 72 inches in width and 0.25 inches thick. There are three classes of turf reinforcement mat: Type A, Type B, and Type C. See section 21-2.020(5) of the Standard Specifications for the minimum requirements for each type of netting.
- Plastic netting is a lightweight biaxially-oriented netting designed for securing loose mulches like straw to soil surfaces to establish vegetation. The netting is photodegradable. The netting is supplied in rolled strips, which should be secured with U-shaped staples or stakes in accordance with manufacturers' recommendations.
- Plastic mesh is an open-weave geotextile that is composed of an extruded synthetic fiber woven into a mesh with an opening size of less than 0.25 inch. It is used with revegetation or may be used to secure loose fiber such as straw to the ground. The material is supplied in rolled strips, which should be secured to the soil with U-shaped staples or stakes in accordance with manufacturers' recommendations.
- Synthetic fiber with netting is a mat that is composed of durable synthetic fibers treated to resist chemicals and ultraviolet light. The mat is a dense, three-dimensional mesh of synthetic (typically polyolefin) fibers stitched between two polypropylene nets. The mats are designed to be revegetated and provide a permanent composite system of soil, roots, and geomatrix. The material is furnished in rolled strips, which should be secured with U-shaped staples or stakes in accordance with manufacturers' recommendations.
- Bonded synthetic fibers consist of a three-dimensional geomatrix nylon (or other synthetic) matting. Typically it has more than 90 percent open area, which facilitates root growth. Its tough root-reinforcing system anchors vegetation and protects against hydraulic lift and shear forces created by high volume discharges. It can be installed over prepared soil, followed by seeding into the mat. Once vegetated, it becomes an invisible composite system of soil, roots, and geomatrix. The material is furnished in rolled strips that should be secured with U-shaped staples or stakes in accordance with manufacturers' recommendations.
- Combination synthetic and biodegradable RECPs consist of biodegradable fibers, such as wood fiber or coconut fiber, with a heavy polypropylene net stitched to the top and a high-strength continuous-filament geomatrix or net stitched to the bottom. The material is designed to enhance revegetation.



May 2017

Caltrans Storm Water Quality Handbooks Construction Site BMP Manual Section 3

Temporary Cover and Rolled Erosion Control Products SS-7





The material is furnished in rolled strips, which should be secured with U-shaped staples or stakes in accordance with manufacturers' recommendations.

Site Preparation

Proper site preparation is essential to ensure complete contact of the blanket or matting with the soil.

Grade and shape the area of installation.

Remove all rocks, clods, vegetation or other obstructions larger than 1 inch in size. Fill voids or depressions.

Proper site preparation ensures that the products and covers will have complete, direct contact with the soil.

Seeding

If applicable, seed the area before RECP installation for erosion control and revegetation.

Check all slots and other areas disturbed during installation must be re-seeded.

For turf reinforcement mats, seeding is often specified to occur after installation.

Anchoring

U-shaped wire staples, metal stake pins, triangular wooden stakes, or fasteners recommended by manufacturers can be used to anchor mats and blankets to the ground surface in conformance with Standard Specification section 13-10.

Staples should be made of minimum 16 gauge steel wire and be U-shaped with 8-inch legs and 2-inch crown.

Metal stake pins should be 0.188 inch diameter steel with a 1.5 inch steel washer at the head of the pin, and 8 inch in length.

Wire staples and metal stakes should be driven flush to the soil surface.

All anchors should be 6 inch to 18 inch long and have sufficient ground penetration to resist pullout. Longer anchors may be required for loose soils.

Installation on Slopes

Refer to Standard Plans T53 and T54 for details regarding installation on slopes for temporary uses, and H52 for permanent uses.

Installation in Channels

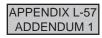
Refer to Standard Plan T55 for details regarding installation in channels.

Installation shall be in accordance with the manufacturer's recommendations. In general, these will be as follows:



Caltrans Storm Water Quality Handbooks

Temporary Cover and Rolled Erosion Control Products SS-7





- Dig initial anchor trench 12 in deep and 6 in wide across the channel at the lower end of the project area.
- Excavate intermittent check slots, 6 in deep and 6 in wide across the channel at 25 ft to 30 ft intervals along the channels.
- Cut longitudinal channel anchor slots 4 in deep and 4 in wide along each side of the installation to bury edges of matting, whenever possible extend matting 2 in to 3 in above the crest of the channel side slopes.
- Beginning at the downstream end and in the center of the channel, place the initial end of the first roll in the anchor trench and secure with fastening devices at 12 in intervals. Note: matting will initially be upside down in anchor trench.
- In the same manner, position adjacent rolls in anchor trench, overlapping the preceding roll a minimum of 3 in.
- Secure these initial ends of mats with anchors at 12 in intervals, backfill and compact soil.
- Unroll center strip of matting upstream. Stop at next check slot or terminal anchor trench. Unroll
 adjacent mats upstream in similar fashion, maintaining a 3 in overlap.
- Fold and secure all rolls of matting snugly into all transverse check slots. Lay mat in the bottom of the slot then fold back against itself. Anchor through both layers of mat at 12 in intervals, then backfill and compact soil. Continue rolling all mat widths upstream to the next check slot or terminal anchor trench.
- Alternate method for non critical installations: Place two rows of anchors on 6 in centers at 25 ft to 30 ft intervals in lieu of excavated check slots.
- Shingle lap spliced ends by a minimum of 12 in apart on 12 in intervals.
- Place edges of outside mats in previously excavated longitudinal slots, anchor using prescribed staple pattern, backfill and compact soil.
- Anchor, fill and compact upstream end of mat in a 12 in by 6 in terminal trench.
- Secure mat to ground surface using U-shaped wire staples, geotextile pins, or wooden stakes.
- Seed and fill turf reinforcement matting with soil, if specified.

Soil Filling (if specified for turf reinforcement)

Always consult the manufacturer's recommendations for installation.

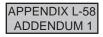
Do not drive tracked or heavy equipment over mat.

Avoid any traffic over matting if loose or wet soil conditions exist.

Use shovels, rakes or brooms for fine grading and touch up.

Smooth out soil filling, just exposing top netting of mat.







Temporary Soil Stabilization Removal

When no longer required for the work, temporary soil stabilization becomes the property of the Contractor.

Temporary soil stabilization removed from the site of the work must be disposed of outside the highway right-of-way in conformance with the provisions in Standard Specifications Section 14-10. If approved by the RE, the contractor may leave the temporary soil stabilizer in place.

Maintenance and Inspection

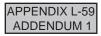
Areas treated with temporary soil stabilization must be inspected as specified in the Standard Specifications and special provisions. Areas treated with temporary soil stabilization must be maintained to provide adequate erosion control. Temporary soil stabilization should be reapplied or replaced on exposed soils when area becomes exposed or exhibits visible erosion.

- All blankets and mats must be inspected periodically after installation.
- Installation should be inspected after significant rain events to check for erosion and undermining. Any failures must be repaired immediately.
- If washout or breakage occurs, re-install the material after repairing the damage to the slope or channel.

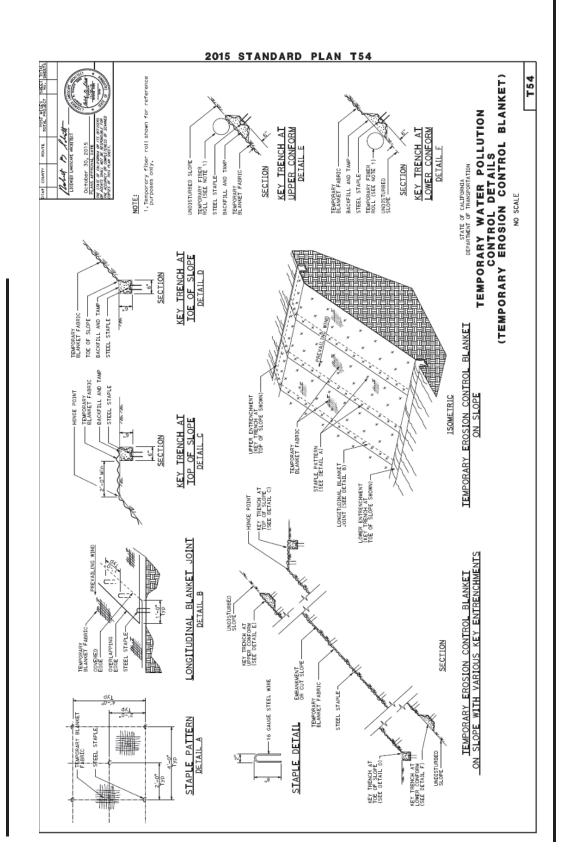
SWPPP or WPCP

RECP must be discussed in Section 500.3.2 of the SWPPP or Section 30.2 of the WPCP.





SS-7



APPENDIX L-60 ADDENDUM 1

Temporary Cover and Rolled Erosion Control Products SS-7

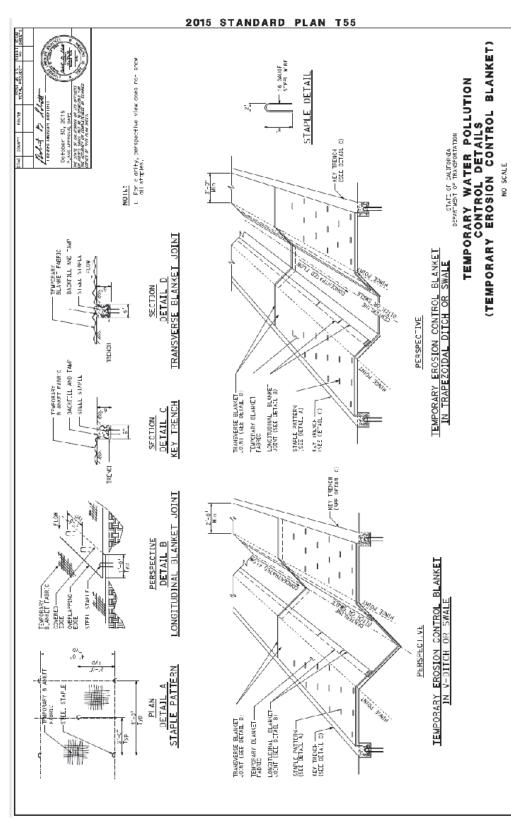
8 of 10

Section 3

Construction Site BMP Manual May 2017

Caltrans Storm Water Quality Handbooks Gutrans

SS-7



Temporary Cover and Rolled Erosion Control Products SS-7

APPENDIX L-61 ADDENDUM 1

Construction Site BMP Manual May 2017

Caltrans Storm Water Quality Handbooks

9 of 10

Section 3

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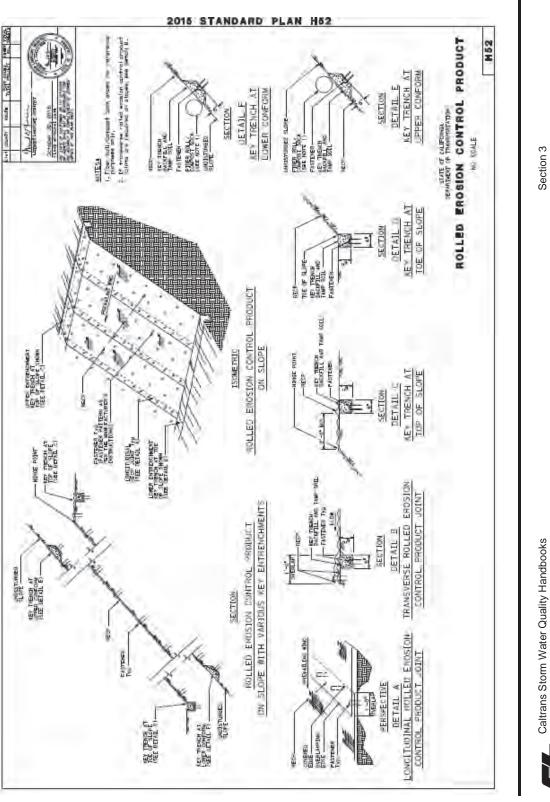
APPENDIX L-62 ADDENDUM 1

10 of 10

Temporary Cover and Rolled Erosion Control Products SS-7

Construction Site BMP Manual May 2017

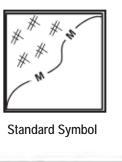
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SS-7







BMP Objectives Soil Stabilization P Sediment Control P Tracking Control P Wind Erosion Control P Non-Stormwater Management Materials and Waste Management

Definition and Purpose

Wood mulching consist of applying a mixture of shredded bark, wood chips, or tree trimmings on top of soil. Wood mulch is mostly applicable to landscape projects.

The primary function of wood mulching is to reduce erosion by protecting bare soil from rainfall impact, increasing infiltration, and reducing runoff.

Appropriate Applications

Wood mulching is considered a temporary soil stabilization alternative in the following situations:

- As a stand-alone temporary surface cover on disturbed areas until soils can be prepared for revegetation and permanent vegetative cover can be established.
- As short term, non-vegetative ground cover on slopes to reduce rainfall impact, decrease the velocity of sheet flow, settle out sediment and reduce wind erosion.
- In combination with other BMPs, mulch may be used to stabilize roadway embankment slopes and control wind erosion.

Limitations

Wood mulch may introduce unwanted species of vegetation.

Shredded wood does not withstand concentrated flows and is prone to sheet erosion.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

> APPENDIX L-63 ADDENDUM 1

Section 3

Wood Mulching SS-8

645



Green material has the potential for the presence of unwanted weeds and other plant materials. Delivery system is primarily by manual labor, although pneumatic application equipment is available.

Mulch may need to be removed prior to further earthwork.

Mulch should not be used alone to stabilize embankments or sides of swales where concentrated flows could mobilize the material.

Standards and Specifications

Mulch Selection

There are many types of mulches, including tree bark mulch, wood chip mulch, shredded bark mulch, and tree trimming mulch. Selection of the appropriate type should be based on the type of application and site conditions. Prior to use of wood mulches, obtain concurrence with the District Landscape Architect because some mulch used on construction projects may not be compatible with planned or future projects.

Selection of wood mulches must comply with Standard Specifications Section 20-5.03E, and must be approved by the RE.

Tree Bark Mulch

Tree bark mulch must be derived from cedar, Douglas fir, or redwood tree species.

Tree bark mulch must be ground such that at least 95 percent of the material by volume is less than 2 inches in any direction and no more than 30 percent by volume is less than 1 inch in any direction.

Wood Chip Mulch

Wood chip mulch must be derived from clean wood, and it may not contain leaves or small twigs.

Wood chip mulch must contain at least 95 percent wood strands by volume with an average thickness of 1/8 to 1-1/2 inches in any direction and 2 to 8 inches in length.

Shredded Bark Mulch

Shredded bark mulch must be derived from trees. The mulch must be a blend or loose, long, thin wood or bark pieces.

Shredded bark mulch must contain at least 95 percent wood strands by volume with an average thickness of 1/8 to 1-1/2 inches in any direction and 2 to 8 inches in length

Tree Trimming Mulch

Tree trimming mulch is derived from chipped trees and may contain leaves, small twigs, and green material.

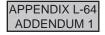
Tree trimming mulch must contain at least 95 percent material by volume less than 3 inches and no more than 30 percent by volume less than 1 inch



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 3

Wood Mulching SS-8



Application Procedures

Do not use soil sterilant or filter fabric.

Mulch should be placed uniformly from the outside edge of area designated for mulch. Permanent, landscape mulch should be placed after vegetation has been installed.

Mulch may be installed by manual application or with pneumatic devices.

Do not place mulch within 4 ft of the flow line of drainage ditches or other channels, or the edge of paved roads.

All material must be removed before re-starting work on the slopes.

Maintenance and Inspection

Wood mulch needs to last long enough to achieve erosion-control objectives. If the mulch is applied as a stand-alone erosion control method over disturbed areas (without seed), it should last the length of time the site will remain barren or until final re-grading and revegetation. Additional information is provided in Appendix B of this Manual.

Where vegetation is not the ultimate cover, such as ornamental and landscape applications of bark or wood chips, inspection and maintenance should focus on longevity and integrity of the mulch.

May require reapplication when bare soil becomes visible.

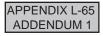
SWPPP or WPCP

Wood Mulch must be discussed in Section 500.3 of the SWPPP or Section 30.2 of the WPCP.



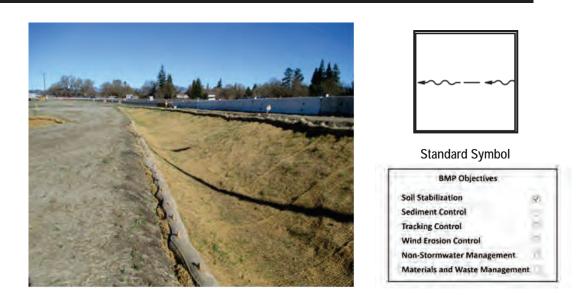
Section 3

Wood Mulching SS-8



Earth Dikes/Drainage Swales and Lined Ditches





Definition and Purpose

These are structures that intercept, divert and convey surface run-on, generally sheet flow, to prevent erosion.

Appropriate Applications

Earth dikes/drainage swales and lined ditches may be used to:

- Convey surface runoff down sloping land.
- Intercept and divert runoff to avoid sheet flow over sloped surfaces.
- Divert and direct runoff towards a stabilized watercourse, drainage pipe or channel.
- Intercept runoff from paved surfaces.

Earth dikes/drainage swales and lined ditches also may be used:

- Below steep grades where runoff begins to concentrate.
- Along roadways and facility improvements subject to flood drainage.
- At the top of slopes to divert run-on from adjacent or undisturbed slopes.
- At bottom and mid-slope locations to intercept sheet flow and convey concentrated flows.

Limitations

Earth dikes/drainage swales and lined ditches are not suitable as sediment trapping devices.

May be necessary to use other soil stabilization and sediment controls, such as check dams, plastics, and blankets, to prevent scour and erosion in newly graded dikes, swales and ditches.

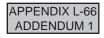


Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 3

Earth Dikes/Drainage Swales and Lined Ditches SS-9





Earth Dikes/Drainage Swales and Lined Ditches



Temporary swales and ditches should not or any other runoff diversion device should not adversely impact upstream or downstream properties.

Standards and Specifications

Standard Specification Section 19-6 "Embankment Construction," which covers allowable materials and construction procedures for dikes.

Standard Specification Section 72-5 "Concrete Slope Protection, Gutter, Ditch and Channel Lining" covers ditch and channel lining materials and construction procedures.

Care must be applied to correctly size and locate earth dikes, drainage swales and lined ditches. Excessively steep, unlined dikes and swales are subject to erosion and gully formation.

Must complete a careful evaluation of the risks due to erosion of the selected measure based on flow velocity, soil types, potential for over topping, flow backups, washouts, and drainage patterns for each BMP location.

Conveyances shall be stabilized. Consider using a lined ditch for high flow velocities to prevent scour. Compact any fills or backfills to prevent unequal settlement.

Do not divert runoff from the highway right-of-way onto other property.

When possible, install and utilize permanent dikes, swales and ditches early in the construction process.

Earthen berms should be 8 inches tall and 36 inches wide at a minimum. Earthen berms must be compacted either by hand or mechanical methods.

Provide stabilized outlets. Refer to SS-10, "Outlet Protection/Velocity/ Dissipation Devices."

Maintenance and Inspection

Inspect temporary measures prior to, daily during extended rain events post-storm and weekly year-round.

Inspect ditches and berms for washouts. Replace lost riprap, damaged linings or soil stabilizers as needed.

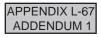
Inspect channel linings, embankments, and beds of ditches and berms for erosion and accumulation of debris and sediment.

Remove debris and sediment, and repair linings and embankments to ensure they function as intended.

Temporary conveyances should be completely removed as soon as the surrounding drainage area has been stabilized, or at the completion of construction.









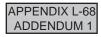
SWPPP or WPCP

Earth Dikes/Drainage Swales and Lined Ditches must be discussed in Section 500.3.2 of SWPPP or Section 30.2 of the WPCP.



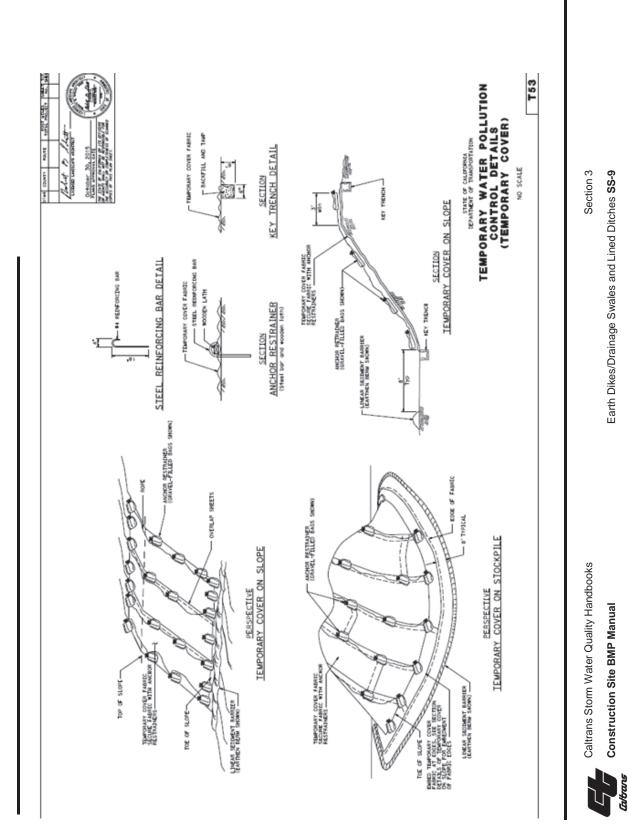
Construction Site BMP Manual May 2017 Section 3

Earth Dikes/Drainage Swales and Lined Ditches SS-9



Earth Dikes/Drainage Swales and Lined Ditches



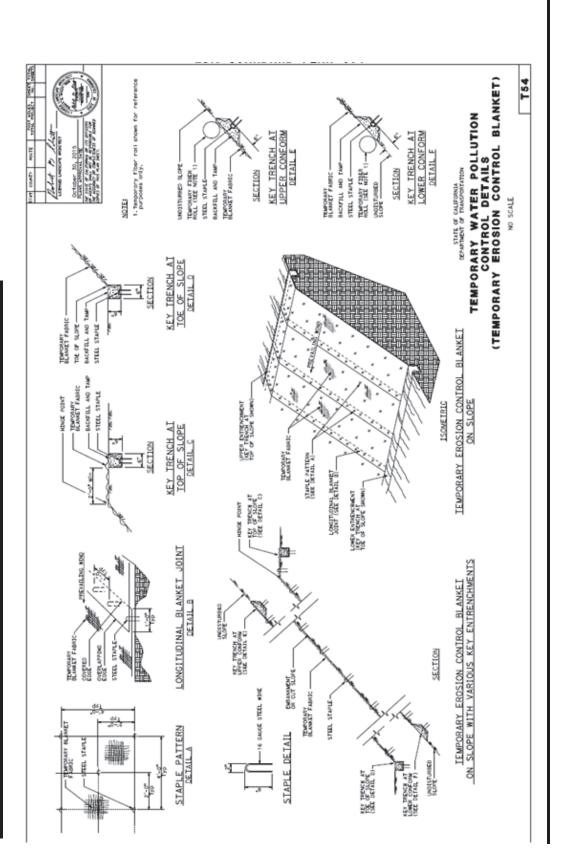


May 2017

APPENDIX L-69 ADDENDUM 1

Earth Dikes/Drainage Swales and Lined Ditches





APPENDIX L-70 ADDENDUM 1

5 of 6

Section 3

Earth Dikes/Drainage Swales and Lined Ditches SS-9

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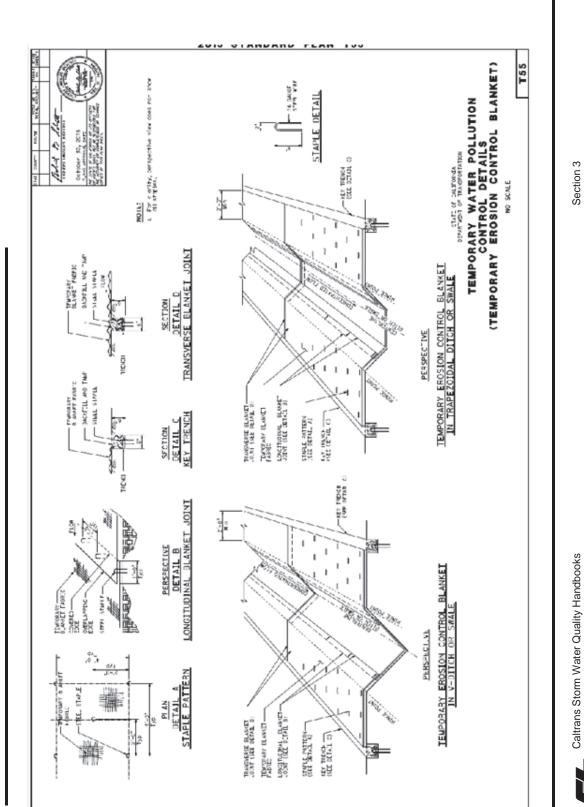
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Construction Site BMP Manual

May 2017

Earth Dikes/Drainage Swales and **Lined Ditches**



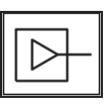


Earth Dikes/Drainage Swales and Lined Ditches SS-9 APPENDIX L-71 ADDENDUM 1

Outlet Protection/Velocity Dissipation Devices







Standard Symbol

BMP Objectives	
Soil Stabilization	X
Sediment Control	2
Tracking Control	10
Wind Erosion Control	12
Non-Stormwater Management	10
Materials and Waste Management	0

Definition and Purpose

These devices are placed at pipe outlets to prevent scour and reduce the velocity and/or energy of stormwater flows.

Appropriate Applications

These devices may be used at the following locations:

- Outlets of pipes, drains, culverts, slope drains, diversion ditches, swales, conduits or channels.
- Outlets located at the bottom of mild to steep slopes.
- Discharge outlets that carry continuous flows of water.
- Outlets subject to short, intense flows of water, such as flash floods.
- Points where lined conveyances discharge to unlined conveyances.

Limitations

Loose rock may have stones washed away during high flows.

Grouted rock slope protection may break up in areas of freeze and thaw.

If there is not adequate drainage, and water builds up behind grouted rock slope protection, it may cause the grouted rock slope protection to break up due to the resulting hydrostatic pressure.

Outlet protection may negatively impact the channel habitat.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Section 3

Outlet Protection/Velocity Dissipation Devices SS-10





Outlet Protection/Velocity Dissipation Devices



Standards and Specifications

There are many types of energy dissipaters; a flared end section and rock slope protection is shown in the figure on the previous page. Please note that this is only one example and the RE may approve other types of devices proposed by the contractor.

Flared end sections must comply with Standard Specification 70-5.02.

Rock slope protection must comply with Standard Specification Section 72.

Install rock slope protection, grouted rock slope protection, or concrete apron at selected outlet. Rock slope protection aprons are best suited for temporary use during construction.

Carefully place rock slope protection to avoid damaging the filter fabric.

For proper operation of apron:

- Align apron with receiving stream and keep straight throughout its length. If a curve is needed to fit site conditions, consider placing it in upper section of apron.
- If size of apron rock slope protection is large, consider protecting underlying filter fabric with a gravel blanket.

Outlets on slopes steeper than 10% should have additional protection.

Maintenance and Inspection

At a minimum, perform inspections weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.

Minimize areas of standing water by removing sediment blockages and filling scour depressions. If persistent, it might be necessary to have licensed professional re-evaluate size and type of device implemented.

Inspect apron for displacement of the rock slope protection and/or damage to the underlying fabric. Repair fabric and replace rock slope protection that has washed away.

Inspect for scour beneath the rock slope protection and around the outlet. Repair damage to slopes or underlying filter fabric immediately.

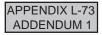
Temporary devices should be completely removed as soon as the surrounding drainage area has been stabilized, or at the completion of construction.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Outlet Protection/Velocity Dissipation Devices SS-10



Outlet Protection/Velocity Dissipation Devices



SWPPP or WPCP

Outlet Protection/Velocity Dissipation Devices must be discussed in Section 500.3.2 of SWPPP or Section 30.2 of the WPCP.



Construction Site BMP Manual May 2017

Section 3
Outlet Protection/Velocity Dissipation Devices SS-10





		1
/		1

Standard Symbol



Definition and Purpose

A slope drain is a pipe used to intercept and direct surface runoff or groundwater into a stabilized watercourse, trapping device or stabilized area. Slope drains are used with lined ditches to intercept and direct surface flow away from slope areas to protect cut or fill slopes.

Appropriate Applications

Slope drains may be used on construction sites where slopes may be eroded by surface runoff.

Drainage for top of slope dikes or swales.

Drainage for top of cut and fill slopes where water can accumulate.

Emergency spillway for a sediment basin.

Limitations

Severe erosion may result when slope drains fail by overtopping, piping, or pipe separation.

Sediment accumulation, scour depressions, and/or persistent non-stormwater discharges in energy dissipaters associated with slope drain outlets can result in suitable areas for vector production.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

> APPENDIX L-75 ADDENDUM 1

Section 3 Slope Drains **SS-11** 1 of 2

Standards and Specifications

Maximum slope generally limited to 2:1 (H:V), as energy dissipation below steeper slopes is difficult.

Direct surface runoff to slope drains with interceptor dikes. See BMP SS 8, "Earth Dikes/Drainage Swales, and Lined Ditches."

Slope drains can be placed on or buried underneath the slope surface.

Recommended materials are plastic or corrugated metal, or comparable pipe.

When installing slope drains:

- Install slope drains perpendicular to slope contours.
- Compact soil around and under entrance, outlet, and along length of pipe.
- Securely anchor and stabilize pipe and appurtenances into soil.
- Check to ensure that pipe connections are water tight.
- Protect area around inlet with filter cloth. Protect outlet with rock slope protection or other energy dissipation device. For high energy discharges, reinforce rock slope protection with concrete or use reinforced concrete device.
- Protect inlet and outlet of slope drains; use standard flared end section at entrance and exit for pipe slope drains 12 in and larger.

Maintenance and Inspection

Inspect before, daily during and after each rain event, and weekly during the duration of the construction project. Inspect outlet for erosion and downstream scour.

If eroded, repair damage and install additional energy dissipation measures. If downstream scour is occurring, it may be necessary to reduce flows being discharged into the channel.

Inspect slope drainage for accumulations of debris and sediment.

Remove built-up sediment from entrances, outlets, and within drains as required.

Make sure stormwater is not ponding onto inappropriate areas (e.g., active traffic lanes, material storage areas, etc.).

SWPPP or WPCP

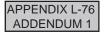
Slope Drains must be discussed in Section 500.3.2 of SWPPP or Section 30.2 of the WPCP.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 3

Slope Drains SS-11







Standard Symbol

BMP Objectives	
Soil Stabilization	¥
Sediment Control	4
Tracking Control	
Wind Erosion Control	
Non-Stormwater Management	
Materials and Waste Management	L

Definition and Purpose

Drainage systems including the stream channel, streambank, and associated riparian areas, are dynamic and sensitive ecosystems that respond to changes in land use activity. Streambank and channel disturbance resulting from construction activities can increase the stream's sediment load, which can cause channel erosion or sedimentation and have adverse affects on the biotic system. BMPs can reduce the discharge of sediment and other pollutants and minimize the impact of construction activities on watercourses. Streams included on the 303(d) list by the State Water Resources Control Board (SWRCB) may require careful evaluation to prevent any increases in sedimentation, siltation and/or turbidity to the stream.

Appropriate Applications

These procedures typically apply to all construction projects that disturb or occur within stream channels and their associated riparian areas. Streambank stabilization typically consists of a combination of several BMPs to prevent destabilization and enhance stability of eroding streambanks.

Limitations

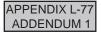
Specific permit requirements or mitigation measures such as Regional Water Quality Control Board (RWQCB) 401 Certification, U.S. Army Corps of Engineers 404 permit and approval by California Department of Fish and Wildlife Service may be included in contract documents. Specific requirements could include in-water work windows, vegetation species, seed mixes, stabilization measures, water quality monitoring protocols and specific reporting requirements. If numerical-based water quality standards are



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 3

Streambank Stabilization SS-12



mentioned in any of these and other related permits, testing and sampling may be required. Streams included on the 303(d) list by the SWRCB because of sediment, silt, or turbidity impairment are required to conduct sampling to verify that there is no net increase in sediment load due to construction activities.

Standards and Specifications

Planning

Proper planning, design, and construction techniques can minimize impacts normally associated with instream construction activities. Poor planning can adversely affect soil, fish, and wildlife resources, land uses, or land users. Planning should take into account: scheduling, avoidance of in-stream construction; minimizing disturbance area and construction time period; using pre-disturbed areas; selecting crossing location; selecting equipment and proper stabilization techniques once the activity is completed.

Scheduling (SS-1)

Construction activities should be scheduled according to the relative sensitivity of the environmental concerns and in accordance with SS-1, "Scheduling." Scheduling considerations will be different when working near perennial streams vs. ephemeral streams, and are as follows:

- Construction work near perennial streams should optimally be performed during the dry season (see below).
- When working in or near ephemeral, intermittent, or perennial streams, construction should be performed during the dry season and in accordance with regulatory agency permits and approvals. By their very nature, ephemeral and intermittent streams are usually dry in the summer, and therefore, in-stream construction activities will not cause significant water quality problems. For perennial streams, clear water diversion (see NS-5 for "Clear Water Diversion"), dewatering (see NS-2 for "Dewatering Operations"), and water quality monitoring may be required.
- When closing the site at the end of the job, wash any fines that were formed in-situ back into the channel the bed material, to decrease pollution from the first rainstorm ("first flush") of the season. When working near stream channels, erosion and sediment controls (see silt fences, straw bale barriers, etc.) should be implemented on the banks to keep sediment out of the stream channel.
- Regulatory permits might require or allow for the stockpiling of native bed material to be backfilled during stabilization.

Minimize Disturbance

Minimize disturbance through: selection of the narrowest crossing location; limiting the number of equipment trips across a stream during construction; and, minimizing the number and size of work areas (equipment staging areas and spoil storage areas). Provide stabilized access to the stream when in-stream work is required. Field reconnaissance should be conducted during the planning stage to identify work areas.

Comply with regulatory permit requirements, if none are applicable, then place work areas (stage area, active construction) at least 50 ft from the stream channel. Perform each of the following activities at least 100 feet



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Streambank Stabilization SS-12





from a drainage course if it is performed within the floodplain, or at least 50 feet outside the floodplain: stockpiling materials, storing pile-driving equipment and liquid waste containers, washing vehicles and equipment, fueling and maintaining vehicles and equipment.

Locate access and staging areas in paved or pre-disturbed areas when possible. If not possible, select access and staging areas that minimizes disturbance to aquatic species, riparian vegetation, and habitat.

Avoid steep and unstable banks, highly erodible or saturated soils, or highly fractured rock, wherever possible.

Select equipment that reduces the amount of pressure exerted on the ground surface, and therefore, reduces erosion potential and/or use overhead or aerial access for transporting equipment across drainage channels. Use equipment that exerts ground pressures of less than 5 or 6 pounds per square inch (PSI), where possible. Low ground pressure equipment includes: wide or high flotation tires (34 to 72 inch wide); dual tires; bogie axle systems; tracked machines; lightweight equipment; and central tire inflation systems.

Streambank Stabilization: Preservation of Existing Vegetation (SS-2)

Preserve existing vegetation in accordance with SS-2, "Preservation of Existing Vegetation." In a streambank environment preservation of existing vegetation provides the following benefits:

Water Quality Protection

Vegetated buffers on slopes trap sediment and promote groundwater recharge. The buffer width needed to maintain water quality ranges from 15 to 100 feet. On gradual slopes, most of the filtering occurs within the first 30 feet of the buffer. Steeper slopes require a greater width of vegetative buffer to provide water quality benefits.

Streambank Stabilization

The root system of riparian vegetation stabilizes streambanks by increasing tensile strength in the soil. The presence of vegetation modifies the moisture condition of slopes (infiltration, evapotranspiraton, interception) and increases bank stability.

Riparian Habitat

Buffers of diverse riparian vegetation provide food, shelter, and shade for riparian and aquatic organisms. Minimizing impacts to fisheries habitat is a major concern when working near streams and rivers. Riparian vegetation provides shade, shelter, organic matter (leaf detritus and large woody debris), and other nutrients that are necessary for fish and other aquatic organisms. Buffer widths for habitat concerns are typically wider than those recommended for water quality concerns (100 to 1,500 feet).

When working near watercourses, it is important to understand the work site's placement in the watershed. Riparian vegetation in the headwater streams has a greater impact on overall water quality than vegetation in downstream reaches. Preserving existing vegetation in upstream areas is necessary to maintain water quality, minimize bank failure, and maximize riparian habitat downstream of the work site.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Streambank Stabilization SS-12





Local county and municipal ordinances regarding width, extent and type of vegetative buffer required may exceed the specifications provided here; these ordinances should be investigated prior to construction.

As a general rule, the width of a buffer strip between a road and the stream is recommended to be 50 feet plus four times the percent slope of the land, measured between the road and the top of stream bank.

Hydraulic Mulch (SS-3), Hydroseeding (SS-4), and Soil Binders (SS-5)

Apply hydraulic mulch, hydroseed, or soil binders on disturbed streambanks above the mean high water level to provide temporary soil stabilization.

Do not place hydraulic mulch, tackifiers, fertilizers, or soil binders below the mean high water level, as these materials could wash into the channel and impact water quality or possibly cause eutrophication.

Straw Mulch (SS-6)

Apply straw mulch to disturbed streambanks in accordance with SS-6, "Straw Mulch."

Do not place straw mulch or tackifiers below the mean high water level, as this material could wash into the channel and impact water quality.

Earth Dikes/Drainage Swales, and Lined Ditches (SS-9)

Convey, intercept, or divert runoff from disturbed streambanks using SS-9, "Earth Dikes/Drainage Swales, and Lined Ditches."

Do not place earth dikes in watercourses, as these structures are only suited for intercepting sheet flow, and should not be used to intercept concentrated flow.

Outlet Protection/Velocity Dissipation Devices (SS-10)

Place outlet protection or velocity dissipation devices at outlets of pipes, drains, culverts, slope drains, diversion ditches, swales, conduits or channels in accordance with SS-10.

Slope Drains (SS-11)

Use slope drains to intercept and direct surface runoff or groundwater into a stabilized watercourse, trapping device or stabilized area in accordance with SS-11, "Slope Drains." The use of slope drains minimizes potential streambank erosion from overland flows.

Streambank Sediment Control: Silt Fences (SC-1)

Install silt fences in accordance with SC-1, "Silt Fence" to control sediment. Silt fences should only be installed where sediment-laden water can pond, thus allowing the sediment to settle out.

Fiber Rolls (SC-5)

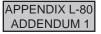
Install fiber rolls in accordance with SC-5, "Fiber Rolls" along slope contour above the high water level to intercept runoff, reduce flow velocity, release the runoff as sheet flow and provide removal of sediment from the runoff. In a stream environment, fiber rolls should be used in conjunction with other sediment control



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Streambank Stabilization SS-12





methods such as SC-1, "Silt Fence" or SC-9, "Straw Bale Barrier." Install silt fence, straw bale barrier, or other erosion control methods along the toe of slope above the high water level. Typical fiber roll installation is illustrated at the end of this Section.

Gravel Bag Berm (SC-6)

A gravel bag berm or barrier can be utilized to intercept and slow the flow of sediment-laden sheet flow runoff in accordance with SC-6, "Gravel Bag Berm." In a stream environment gravel bag barriers can allow sediment to settle from runoff before water leaves the construction site and can be used to isolate the work area from the stream. Gravel bag barriers are not recommended as a perimeter sediment control practice around streams.

Straw Bale Barrier (SC-9)

Install straw bale barriers in accordance with SC-9, "Straw Bale Barrier" to control sediment. Straw bale barriers should only be installed where sediment-laden water can pond, thus allowing the sediment to settle out. Install a silt fence in accordance with SC-1, "Silt Fence" on the down-slope side of the straw bale barrier closest to stream channel to provide added sediment control.

Compost Stock (SC-8)

Compost socks are a mesh sock containing compost that act as three dimensional, biodegradable structures that intercept and filter sheet flow. Compost socks can filter runoff, retain sediment, and reduce sheet flow velocities. Compost may be pre-seeded to assist in the establishment of vegetation. Compost socks may be used as either a temporary or permanent sediment control measure.

Maintenance and Inspection

Inspect BMPs daily during construction.

Maintain and repair BMPs.

Remove accumulated sediment as necessary.

SWPPP or WPCP

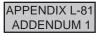
Streambank Stabilization must be discussed in Section 500.3.2 of the SWPPP or Section 30.2 of the WPCP.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 3

Streambank Stabilization SS-12



Section 4

Temporary Sediment Control BMP

4.1 Temporary Sediment Controls

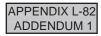
Temporary sediment control practices include those practices that intercept and slow or detain the flow of stormwater to allow sediment to settle and be trapped. These practices can consist of installing temporary linear sediment barriers (such as silt fences, sandbag barriers, and straw bale barriers); providing fiber rolls, gravel bag berms, or check dams to break up slope length or flow; or constructing a temporary sediment/desilting basin on sediment trap. Linear sediment barriers are typically placed below the toe of exposed and erodible slopes, downslope of exposed soil areas, around temporary stockpiles, and at other appropriate locations along the site perimeter.

Temporary sediment control practices must be implemented in conformance with the criteria presented in Section 2 of this Manual and the SWPPP/WPCP Preparation Manual. Temporary sediment control practices include the BMPs listed in Table 4-1.

Та	ble 4-1. Temporary Sediment Control BMPs
ID	BMP Name
SC-1	Silt Fence
SC-2	Sediment/Desilting Basin
SC-3	Sediment Trap/Curb Cutback
SC-4	Check Dam
SC-5	Fiber Rolls
SC-6	Gravel Bag Berm/Earthen Berm
SC-7	Street Sweeping
SC-8	Sandbag Barrier
SC-9	Straw Bale Barrier
SC-10	Temporary Drainage Inlet Protection
SC-11	Compost Sock
SC-12	Flexible Sediment Barrier

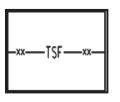
The remainder of this Section describe the working details for each of the temporary sediment control BMPs.





Temporary Silt Fence





Standard Symbol

BMP Objectives	
Soil Stabilization	P
Sediment Control	4
Tracking Control	.0
Wind Erosion Control	τ
Non-Stormwater Management	.0
Materials and Waste Managemen	

Definition and Purpose

A silt fence is a temporary linear sediment barrier of permeable fabric designed to intercept and slow the flow of sediment-laden sheet flow runoff. Silt fences allow sediment to settle from runoff before water leaves the construction site.

Appropriate Applications

Below the toe of exposed and erodible slopes.

Down-slope of exposed soil areas.

Around temporary stockpiles.

Along streams and channels.

Along the perimeter of a project.

Limitations

Not effective unless trenched and keyed in.

Not intended for use as mid-slope protection on slopes greater than 4:1 (H:V).

Must be maintained.

Must be removed and disposed of.

Don't use below slopes subject to creep, slumping, or landslides.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Temporary Silt Fence SC-1



Don't use in streams, channels, drain inlets, or anywhere flow is concentrated.

Don't use silt fences to divert flow.

Don't use in locations where ponded water may cause a flooding hazard.

Standards and Specifications

Design and Layout

The drainage area above any fence should not exceed a quarter of an acre, (100-feet of silt fence per 10,000 square feet of DSA).

Slope of area draining to silt fence should be less than 1:1 (H:V).

Silt fences must be placed parallel to the slope contour.

Silt fences rely on temporary ponding to encourage sediment deposition and achieve water quality benefits. Limit application to areas where ponding and deposition may occur on the uphill side of the silt fence.

Temporary silt fence fabrics generally have life spans ranging between five and eight months. Projects with longer durations may require replacing silt fence fabric.

Silt fences constructed across concentrated flows are susceptible to washout. Silt fences shall not be installed across concentrated flows.

For slopes adjacent to water bodies or Environmentally Sensitive Areas (ESAs), additional temporary soil stabilization BMPs should be used.

For any 50 foot section of silt fence, the elevation of the base of the fence may not vary by more than 1/3 of the fence height.

Install along a level contour, so water does not pond more than 1.5 ft at any point along the silt fence.

Join separate sections to form reaches not more than 500 feet without openings. Ensure there are no gaps between posts.

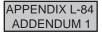
Reinforced Silt Fence

Temporary reinforced silt fence is typically used in areas affected by high winds. They are also often used on slopes steeper than 2:1 (H:V) that contain a high number of rocks or large dirt clods that tend to dislodge, or where area draining fence contains moderate sediment loads.

Temporary reinforced silt fence (type 2) may also be used to provide sediment control and delineate ESAs.



Section 4 Temporary Silt Fence **SC-1**



Materials

Silt fence fabric should be a woven or unwoven geosynthetic textile that complies with Section 96-1.02E of the Standard Specifications. The Contractor must submit a certificate of compliance for silt fence fabric in accordance with Standard Specifications Section 6-2.03C.

Wood posts should be untreated fir, redwood, cedar, or pine lumber. Each silt fence post should be at least 4 feet long, except reinforced silt fence posts should be at least 6 feet for Type 1 and 5 feet for Type 2 installations. Posts should be free from decay, splits or cracks longer than the thickness of the post or other defects that would weaken the posts and cause the posts to be structurally unsuitable. Steel posts may be used as well. Posts should comply with the requirements in Standard Specifications sections 16-2.03B and 13-10.02C.

Anchors may be used. Anchors consist of a number 4 steel reinforcing bar. End protection shall be provided for any exposed bar reinforcement.

Staples used to fasten the fence fabric to the posts and to join adjacent silt fence sections shall be U-shaped and have 1/2-inch legs and a 1-inch crown. Staples should be 1/16-inch in diameter. At least four staples should be installed on each silt fence post for adequate fastening, with a maximum of 8-inches between each staple.

Installation

Install in accordance with Pages 5 and 6 of this BMP (Standard Plans T51 "Temporary Silt Fence" and T60 "Temporary Reinforced Silt Fence").

Generally, silt fences should be used in conjunction with soil stabilization source controls up slope to provide effective erosion and sediment control.

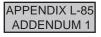
Excavate a trench that is 6-inches deep and 6-inches wide with a length consistent with the project design plans. Place the bottom of the silt fence fabric in the trench. Backfill the trench with soil over the base of the silt fence fabric. Compact the backfill soil by hand or mechanical methods.

Construct the length of each reach so that the change in base elevation along any 50-foot reach does not exceed 1/3 the height of the barrier; in no case should any reach of temporary silt fence exceed 500 feet in length.

Construct silt fences with a set-back of at least 3 feet from the toe of a slope. Where a silt fence is determined to be not practical with a 3 foot set-back from the toe due to specific site conditions, the silt fence may be constructed at the toe of the slope, but should be constructed as far from the toe of the slope as practical.



Construction Site BMP Manual May 2017 Section 4 Temporary Silt Fence **SC-1**



Maintenance and Inspection

Repair undercut silt fences.

Repair or replace split, torn, slumping, or weathered fabric.

Inspect silt fence when rain is forecast. Perform necessary maintenance, or maintenance required by the Engineer.

Inspect silt fence following rain events. Perform maintenance as necessary, or as required by the Engineer.

Maintain silt fences to provide an adequate sediment holding capacity. Sediment should be removed when the sediment accumulation reaches one-third (1/3) of the barrier height.

Silt fences that are damaged and become unsuitable for the intended purpose should be removed from the site of work, disposed of outside the highway right of way in conformance with the Standard Specifications, and replaced with new silt fence barriers.

Holes, depressions or other ground disturbance caused by the removal of the temporary silt fences should be backfilled and repaired in conformance with the Standard Specifications.

Remove silt fence when no longer needed. Fill and compact post holes and anchorage trench, remove sediment accumulation, and grade fence alignment to blend with adjacent ground.

Silt Fence placement is to be shown in the WPCDs along with other BMPs.

SWPPP or WPCP

Temporary Silt Fence or Reinforced Silt Fence must be discussed in Section 500.3.3 of the SWPPP or Section 30.2.2 of the WPCP.



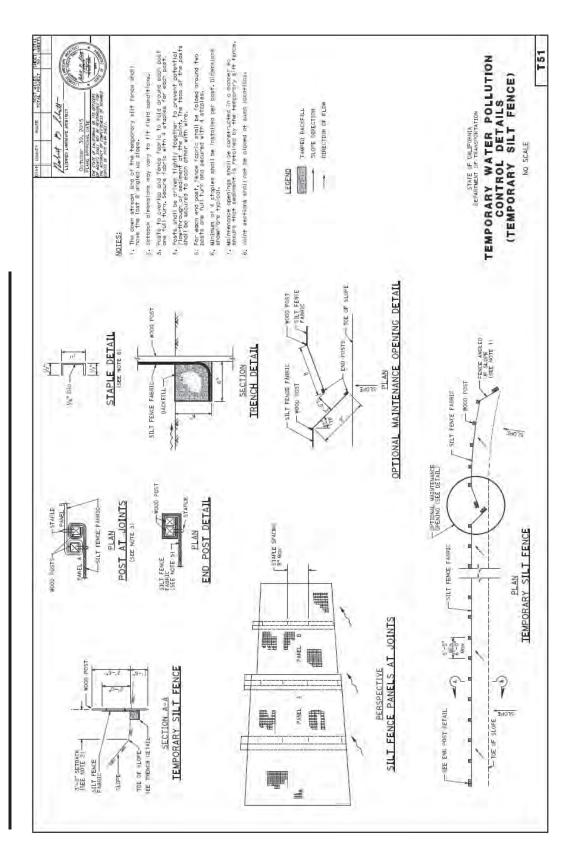
Section 4

Temporary Silt Fence SC-1



Temporary Silt Fence





APPENDIX L-87 ADDENDUM 1

5 of 6

Section 4

Temporary Silt Fence SC-1

Caltrans Storm Water Quality Handbooks

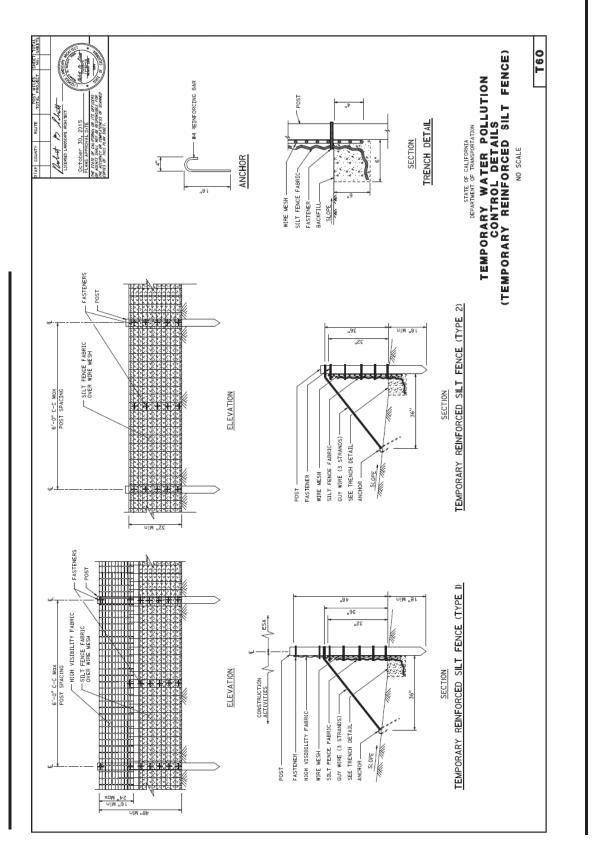
Construction Site BMP Manual

Laitrans

May 2017

Temporary Silt Fence





APPENDIX L-88 ADDENDUM 1

6 of 6

Section 4

Temporary Silt Fence SC-1

Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual

Laitrans

May 2017



Definition and Purpose

A sediment/desilting basin is a temporary basin formed by excavating and/or constructing an embankment so that sediment-laden runoff is temporarily detained under quiescent conditions, allowing sediment to settle out before the runoff is discharged (refer to Figures 1 through 4).

Appropriate Applications

Sediment basins shall be designed in accordance with the State of California NPDES General Permit for Storm Water Discharges Associated with Construction Activities (CGP). If there is insufficient area to construct a sediment basin in accordance with the CGP requirements, then the alternate desilting design standards specified herein may be used as approved by the RE.

Sediment/Desilting Basins should be considered for use:

- On construction projects with disturbed areas during the wetter months, typically October through May.
- Where sediment-laden water may enter the drainage system or watercourses.
- At drainage outlets of disturbed soil areas with areas between 5 and 10 ac.

Limitations

Alternative BMPs must be thoroughly investigated for erosion control before selecting temporary sediment/desilting basins.

Requires large surface areas to permit settling of sediment.

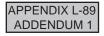
Size may be limited by availability of right-of-way.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Temporary Sediment Basin SC-2



Not appropriate for drainage areas greater than 75 ac.

Not to be located in live streams.

For safety reasons, basins should have protective fencing.

Not to be used as a standalone BMP, requires proper BMP implementation upstream and downstream of its location.

Standards and Specifications

General Requirements

Sediment basins should be designed in accordance with the methods referenced in the State of California NPDES General Permit for Storm Water Discharges Associated with Construction Activities (CGP).

Areas under embankments, structural works, and sediment basin must be cleared, stripped of vegetation in accordance with Standard Specifications Section 16 – "Temporary Facilities."

Earthwork should be in accordance with Standard Specifications Section 19 – "Earthwork." Contractor is specifically directed to Standard Specifications Sections 19 5, "Compaction," and 19 6, "Embankment Construction."

Chain link fencing should be provided around each sediment basin to prevent unauthorized entry to the basin or if safety is a concern. Fencing should be in accordance with Standard Specifications Section 80 - "Fences."

This BMP may be implemented on a project-by-project basis with other BMPs when determined necessary and feasible by the RE.

The outflow from the basins must have outlet protection to prevent erosion and scouring of the embankment and channel. See BMP SS-10, "Outlet Protection/Velocity Dissipation Devices."

Avoid dewatering of groundwater to the sediment basin during the wetter months. Insignificant quantities of accumulated precipitation may be dewatered to the sediment basin unless precipitation is forecasted within 24 hours. Refer to NS-2 "Dewatering Operations."

Other Considerations

Basin should be located: (1) by excavating a suitable area or where a low embankment can be constructed across a swale, (2) where post-construction (permanent) detention basins will be constructed, (3) where failure would not cause loss of life or property damage, (4) where the basins can be maintained on a year-round basis to provide access for maintenance, including sediment removal and sediment stockpiling in a protected area, and to maintain the basin to provide the required capacity.

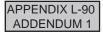
Construct sediment basins prior to the rainy season and construction activities.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Temporary Sediment Basin SC-2



Sediment basins, regardless of size and storage volume, should include features to accommodate overflow or bypass flows that exceed the design storm event. The calculated basin volume and proposed location should be submitted to the RE for approval at least 3 days prior to the basin construction.

Construct an emergency spillway to accommodate flows not carried by the principal spillway. Spillway should consist of an open channel (earthen or vegetated) over undisturbed material (not fill) or constructed of a non-erodible rock slope protection.

The spillway control section, which is a level portion of the spillway channel at the highest elevation in the channel, should be a minimum of 20 ft in length.

Limit the contributing area to the sediment basin to only the runoff from disturbed soil areas. Use temporary concentrated flow conveyance controls to divert runoff from undisturbed areas away from the sediment basin.

A forebay, constructed upstream of the basin may be provided to allow debris and larger particles to settle out of suspension before entering the basin.

Basin inlets should be located to maximize travel distance to the basin outlet and resulting sediment deposition benefits.

Rock or vegetation should be used to protect the basin inlet and slopes against erosion.

The outlet structure should be placed on a firm, smooth foundation with the base securely anchored with concrete or other means to prevent floatation.

Discharge from the basin should be accomplished through a water quality outlet. An example is shown in Figure 3. The principal outlet should consist of a corrugated metal, high density polyethylene (HDPE), or reinforced concrete riser pipe with dewatering holes and an anti-vortex device and trash rack attached to the top of the riser, to prevent floating debris from flowing out of the basin or obstructing the system. This principal structure should be designed to accommodate the inflow design storm.

A rock pile or rock-filled gabions can serve as alternatives to the debris screen, although the designer should be aware of the potential for extra maintenance involved should the pore spaces in the rock pile clog.

Proper hydraulic design of the outlet is critical to achieving the desired performance of the basin. The water quality outlet should be designed to drain the basin within 24 to 96 hours (also referred to as "drawdown time"). (The 24-hour limit is specified to provide adequate settling time; the 96-hour limit is specified to avoid vector control concerns). Local agencies may have more stringent drawdown time requirements.

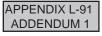
The two most common outlet problems that occur are: (1) the capacity of the outlet is too great resulting in only partial filling of the basin and drawdown time less than designed for; and (2) the outlet clogs because it is not adequately protected against trash and debris. To avoid these problems, the following outlet types are recommended for use: (1) a single orifice outlet with or without the protection of a riser pipe, and (2) perforated riser. Design guidance for single orifice and perforated riser outlets are as follows:



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Temporary Sediment Basin SC-2



Flow Control Using a Single Orifice at the Bottom of the Basin (Figure 1)

The outlet control orifice should be sized using the following equation:

$$a = \frac{2A(H - Ho)^{0.5}}{3600CT(2g)^{0.5}} = \frac{(7x10^{-5})A(H - Ho)^{0.5}}{CT}$$
(Eq. 2)

Where:

a = area of orifice (ft²) (1 ft² = 0.0929m²)

A =surface area of the basin at mid elevation (ft²)

C = orifice coefficient

- T = drawdown time of full basin (hrs)
- $G = \text{gravity} (32.2 \text{ ft/s}^2)$
- H = elevation when the basin is full (ft)
- Ho = final elevation when basin is empty (ft)

With a drawdown time of 40 hours, the equation becomes:

$$a = \frac{(1.75x10^{-6})A(H - Ho)^{0.5}}{C}$$
(Eq. 3)

Flow Control Using Multiple Orifices (See Figure 2)

$$a_{t} = \frac{2A(h_{\max})}{CT(2g[h_{\max} - h_{centroid of orifices}])^{0.5}}$$
(Eq. 4)

With terms as described above except:

 $a_{\rm t}$ = total area of orifices

 h_{max} = maximum height from lowest orifice to the maximum water surface (ft)

 $h_{centroid of orifices}$ = height from the lowest orifice to the centroid of the orifice configuration (ft)

Allocate the orifices evenly on two rows; separate the holes by 3x hole diameter vertically, and by 120 degrees horizontally (refer to Figure 3).

Because basins are not maintained for infiltration, water loss by infiltration should be disregarded when designing the hydraulic capacity of the outlet structure.

Care must be taken in the selection of "C"; 0.60 is most often recommended and used. However, based on actual tests, GKY (1989), "Outlet Hydraulics of Extended Detention Facilities for Northern Virginia Planning District Commission", recommends the following:

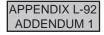
C = 0.66 for thin materials; where the thickness is equal to or less than the orifice diameter, or



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Temporary Sediment Basin SC-2



C = 0.80 when the material is thicker than the orifice diameter

The Contractor should verify that the outlet is properly designed to handle the design and peak flows.

If rock is used for energy dissipation or to prevent erosion, it must comply with Highway Design Manual Chapter 860.

Attach riser pipe (watertight connection) to a horizontal pipe (barrel), which extends through the embankment to toe of fill. Provide anti-seep collars on the barrel.

Cleanout level should be clearly marked on the riser pipe.

Basins with an impounding levee greater than 5 ft tall, measured from the lowest point to the impounding area to the highest point of the levee, and basins capable of impounding more than 35,300 cubic feet, should be designed by a professional Civil Engineer registered with the state of California. The design must be submitted to the RE for approval at least 7 days prior to the basin construction. The design should include maintenance requirements, including sediment and vegetation removal, to ensure continuous function of the basin outlet and bypass structures.

Maintenance and Inspection

Inspect sediment basins before and after rainfall events and weekly year round. During extended rainfall events, inspect at least every 24 hours.

Examine basin banks for seepage and structural soundness.

Check inlet and outlet structures and spillway for any damage or obstructions. Repair damage and remove obstructions as needed.

Remove standing water from the basin within 72 hours after accumulation.

Check inlet and outlet area for erosion and stabilize if required.

Remove accumulated sediment when its volume reaches one-third the volume of the sediment storage. Properly dispose of sediment and debris removed from the basin.

Check fencing for damage and repair.

SWPPP or WPCP

Sediment/Desilting Basin must be discussed in Section 500.3.3 of the SWPPP or Section 30.2.2 of the WPCP.

Other

The drawings on subsequent pages were sourced from CASQA.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Temporary Sediment Basin SC-2



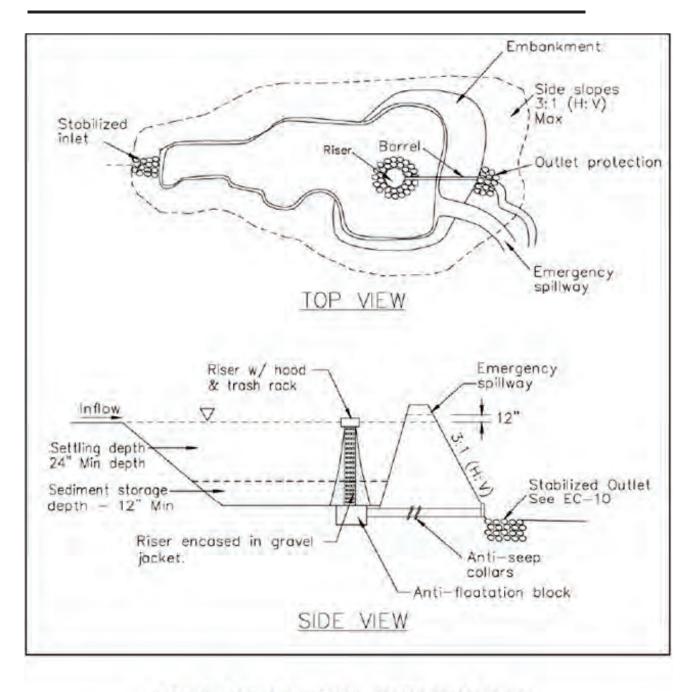


FIGURE 1: TYPICAL TEMPORARY SEDIMENT BASIN MULTIPLE ORIFICE DESIGN NOT TO SCALE



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Temporary Sediment Basin SC-2

6 of 9





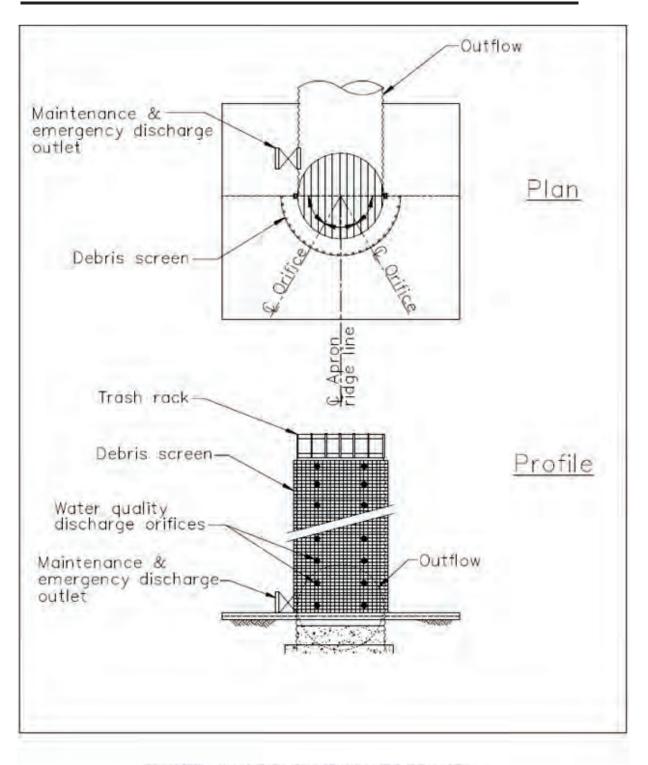


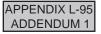
FIGURE 2: MULTIPLE ORIFICE OUTLET RISER NOT TO SCALE



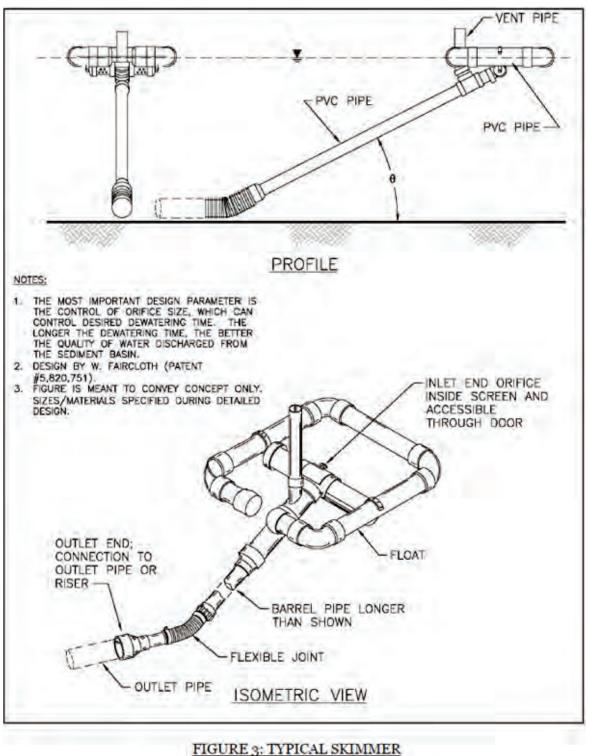
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Construction Site BMP Manual May 2017 Section 4

Temporary Sediment Basin SC-2







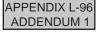
NOT TO SCALE



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Temporary Sediment Basin SC-2





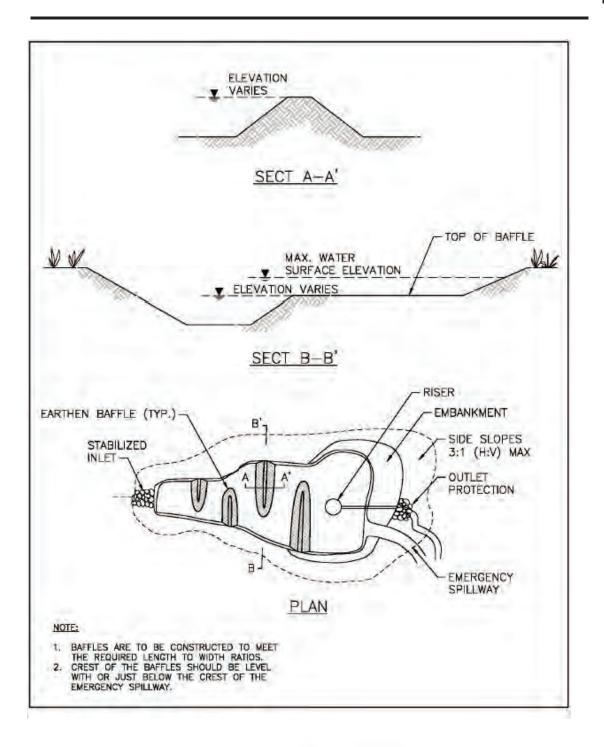


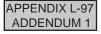
FIGURE 4: TYPICAL TEMPORARY SEDIMENT BASIN WITH BAFFLES NOT TO SCALE



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Temporary Sediment Basin SC-2



Temporary Sediment Trap/Curb Cutback





Standard Symbol

BMP Objectives	
Soil Stabilization	r
Sediment Control	4
Tracking Control	e
Wind Erosion Control	υ
Non-Stormwater Management	U
Materials and Waste Management	1

Definition and Purpose

A sediment trap/curb cutback is a temporary containment area that allows sediment in collected storm water to settle out during infiltration or before the runoff is discharged through a stabilized spillway. Sediment traps are formed by excavating or constructing an earthen embankment.

Curb cutback is implemented when the construction project utilizes the removed section of pavement and uses the depression of the curb as a temporary containment to collect sediment before reaching a storm drain.

Appropriate Applications

Sediment traps may be used on construction projects where the drainage area is less than 5 ac. Traps should be placed where sediment-laden stormwater enters a storm drain or watercourse.

As a supplemental control, sediment traps provide additional protection for a water body or for reducing sediment before it enters a drainage system.

Limitations

Requires large surface areas to permit infiltration and settling of sediment.

Size may be limited by availability of right-of-way.

Not appropriate for drainage areas greater than 5 ac.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Temporary Sediment Trap/Curb Cutback SC-3





Temporary Sediment Trap/Curb Cutback

Only removes large and medium sized particles and requires upstream erosion control.

Sediment traps may appear attractive and dangerous to children, requiring protective fencing.

Sediment traps should not to be located in live streams.

Curb cutback typically does not allow for a large storage area and therefore requires frequent maintenance to prevent sediment laden discharges.

Standards and Specifications

General Requirements

Areas under embankments, structural works, and sediment traps must be cleared and stripped of vegetation in accordance with Standard Specifications Section 17-2 – "Clearing and Grubbing."

Earthwork must be in accordance with Standard Specifications Section 19 – "Earthwork". Contractor is specifically directed to Standard Specifications Sections 19 5 and 19 6 entitled, "Compaction" and "Embankment Construction," respectively.

Fencing, in accordance with Standard Specifications Section 80 – "Fences," should be provided to prevent unauthorized entry.

Remove and dispose of deposited solids from sediment traps under Standard Specifications Section 14-10 – "Solid Waste Disposal and Recycling," unless another method is authorized.

This BMP may be implemented on a project-by-project basis with other BMPs when determined necessary and feasible by the RE.

The outflow from sediment traps may be provided with outlet protection to prevent erosion and scouring of the embankment and channel. See BMP SS-10, "Outlet Protection/Velocity Dissipation Devices."

For curb cutback, excavate soil from behind the curb, sidewalk, or roadway at least 3-4 inches down from the top of the hardscape and bring the soil back at a minimum 3-4 feet back from the hardscape. Site conditions might allow for increase in capacity.

Other Considerations

The sediment trap should be situated according to the following criteria: (1) by excavating a suitable area or where a low embankment can be constructed across a swale, (2) where failure would not cause loss of life or property damage, and (3) to provide access for maintenance, including sediment removal and sediment stockpiling in a protected area.

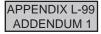
Sediment traps should be sized to accommodate a settling zone and sediment storage zone with recommended minimum volumes of 67 yd3/ac and 33 yd3/ac of contributing drainage area, respectively, based on 0.5 inch



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Temporary Sediment Trap/Curb Cutback SC-3



Temporary Sediment Trap/Curb Cutback



of runoff volume over a 24-hour period. Multiple traps and/or additional volume may be required to accommodate site specific rainfall and soil conditions.

Use rock or vegetation to protect the trap outlets against erosion.

Traps with an impounding levee greater than 4.5 ft tall, measured from the lowest point to the impounding area to the highest point of the levee, and traps capable of impounding more than 35,000 cubic feet, must be designed by a Civil Engineer registered with the state of California. The design must be submitted to the RE for approval at least 7 days prior to the basin construction. The design should include maintenance requirements to ensure continuous function of the trap outlet and bypass structures.

Maintenance and Inspection

Inspect sediment traps/curbs before, during and after rainfall events and weekly year-round. During extended rainfall events, inspect sediment traps at least every 24 hours.

If captured runoff has not completely infiltrated within 96 hours, then the sediment trap must be dewatered.

Inspect trap banks for embankment seepage and structural soundness.

Inspect outlet structure and rock spillway for any damage or obstructions. Repair damage and remove obstructions as needed or as directed by the RE.

Inspect outlet area for erosion and stabilize if required, or as directed by the RE.

Remove accumulated sediment when the volume has reached one-third the original trap volume.

Inspect fencing for damage and repair as needed or as directed by the RE.

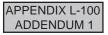
Temporary Sediment Trap/ Curb Cutback locations must be shown in the WPCDs along with other BMPs.

SWPPP or WPCP

Temporary Sediment Trap/ Curb Cutback must be discussed in Section 500.3.3 of the SWPPP or Section 30.2.2 of the WPCP.

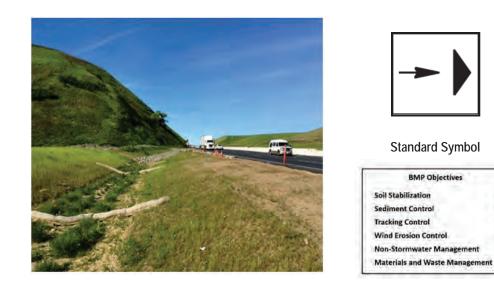


Temporary Sediment Trap/Curb Cutback SC-3



Check Dams

98



Definition and Purpose

Temporary check dams reduce scour and channel erosion by reducing flow velocity and encouraging sediment settlement. A check dam is a small device constructed of rock, gravel bags, compost socks, fiber rolls, or other proprietary product placed across a natural or man-made channel or drainage ditch.

Appropriate Applications

Check dams may be installed:

- In small open channels that drain 10 ac or less.
- In steep channels where storm water runoff velocities exceed 5 ft/sec.
- During the establishment of grass linings in drainage ditches or channels.
- In temporary ditches where the short length of service does not warrant establishment of erosionresistant linings.

This BMP may be implemented on a project-by-project basis with other BMPs when determined necessary and feasible by the RE.

Limitations

Not to be used in live streams.

Not appropriate in channels that drain areas greater than 10 ac.

Not to be placed in channels that are already grass lined unless erosion is expected, as installation may damage vegetation.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Check Dams SC-4



Require extensive maintenance following high velocity flows.

Promotes sediment trapping, which can be re-suspended during subsequent storms or removal of the check dam.

Not to be constructed from straw bales or silt fence.

Standards and Specifications

General Requirements

Remove obstructions, rocks, clods, and debris greater than 1 inch in diameter from the ground before installing temporary check dams.

If check dams are used in combination with Rolled Erosion Control Product (RECP) or blanket, install the RECP or blanket first.

Place a temporary check dam perpendicular to the centerline of the ditch or drainage line.

Install the check dam with enough spillway depth to prevent flanking of a concentrated flow around its ends.

Type 1 or Type 2 check dams are appropriate for unlined ditches. Type 2 check dams are appropriate if the ditch is concrete lined.

Fiber Roll (Type 1) Check Dam

Refer to SC-5 "Fiber Rolls."

Secure the fiber rolls with rope and notched wood stakes.

Drive the stakes into the soil until the notch is even with the top of the fiber roll.

Lace rope between the stakes and over the fiber roll. Knot the rope at each stake.

Tighten by driving the stakes further into the soil and forcing the fiber roll against the surface of the ditch or drainage line.

Gravel Filled Bag (Type 2) Check Dam

Bag Material:

Bags are a geosynthetic material, either polypropylene, polyethylene or polyamide woven fabric, minimum unit weight 4 ounces per yd2, mullen burst strength exceeding 300 psi in conformance with the requirements in ASTM designation D3786, and ultraviolet stability exceeding 70% in conformance with the requirements in ASTM designation D4355.



Caltrans Storm Water Quality Handbooks

Section 4 Check Dams SC-4 2 of 5



Check Dams

Bag Size:

Each gravel-filled bag shave a length of 24 in to 32 in, width of 16 in to 20 in, and thickness of 3 in. Alternative bag sizes must be submitted to the RE for approval prior to deployment.

Gravel:

Fill material is between 3/8 and 3/4 inch in diameter, and must be clean and free from clay balls, organic matter, and other deleterious materials. The opening of gravel-filled bags should be secured such that gravel does not escape. Gravel-filled bags are between 30 and 50 lb in weight. Fill material is subject to approval by the RE.

Place a Type 2 temporary check dam as a single layer of gravel-filled bags, placed end-to-end to eliminate gaps.

If you need to increase the height of the dam, add more layers of gravel-filled bags. Stack the bags in the upper row to overlap the joints in the lower row. Stabilize the rows by adding more rows of bags in the lower layers.

Tightly abut bags and stack gravel bags using a pyramid approach. Gravel bags should not be stacked any higher than 3 ft.

Upper rows of gravel bags should overlap joints in lower rows.

Other Considerations

Check dams should be placed at a distance and height to allow small pools to form behind them. Install the first check dam approximately 15 ft from the outfall device and at regular intervals based on slope gradient and soil type.

For multiple check dam installation, backwater from downstream check dam should reach the toe of the upstream dam.

High flows (typically a 2-year storm or larger) should safely flow over the check dam without an increase in upstream flooding or damage to the check dam.

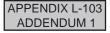
Where grass is used to line ditches, check dams should be removed when grass has matured sufficiently to protect the ditch or swale from erosion.

Check dam materials should consist of biodegradable materials whenever feasible.

Rock check dams might be more applicable if concentrated flows might be a potential.



Section 4 Check Dams SC-4



Maintenance and Inspection

Check dams must be inspected at a minimum weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.

Replace missing rock, bags, fiber rolls, etc. that have degraded or become damaged.

Remove sediment when depth reaches one-third of the check dam height.

Remove accumulated sediment prior to permanent seeding or soil stabilization.

Remove check dam and accumulated sediment when check dams are no longer needed or when directed by the RE.

Removed sediment can be incorporated in the project at locations designated by the RE or disposed of outside the highway right of way in conformance with the Standard Specifications.

SWPPP or WPCP

Temporary Check Dams must be discussed in Section 500.3.3 of the SWPPP or Section 30.2.2 of the WPCP.



Construction Site BMP Manual May 2017

> APPENDIX L-104 ADDENDUM 1

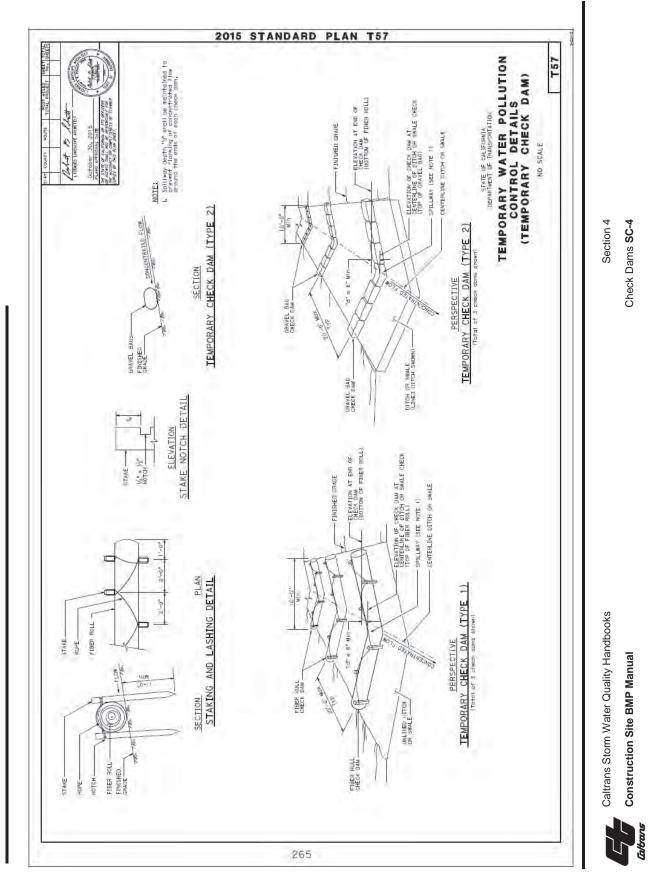
Section 4 Check Dams SC-4

4 of 5

686

Check Dams





May 2017

5 of 5

APPENDIX L-105 ADDENDUM 1

Fiber Rolls



Definition and Purpose

A fiber roll consists of wood excelsior, rice or wheat straw, or coconut fibers that is rolled or bound into a tight tubular roll and placed on the toe and face of slopes to intercept runoff, reduce its flow velocity, release the runoff as sheet flow and provide removal of sediment from the runoff. Fiber rolls may also be used for drainage inlet protection and as check dams under certain situations.

Appropriate Applications

This BMP may be implemented on a project-by-project basis with other BMPs when determined necessary and feasible by the RE.

Fiber rolls may be applied as both temporary and permanent sediment controls.

Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.

Below the toe of exposed and erodible slopes.

Fiber rolls may be used as check dams in unlined ditches or as temporary drainage inlet protection Downslope of exposed soil areas.

Around temporary stockpiles.

Along the perimeter of a project.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4 Fiber Rolls SC-5



Limitations

Runoff and erosion may occur if fiber roll is not adequately trenched in.

Fiber rolls at the toe of slopes greater than 5:1 (H:V) may require the use of a large sediment barrier as specified in Standard Specifications Section 13-10.03D Temporary Large Sediment Barrier or installations achieving the same protection (i.e., stacked smaller diameter fiber rolls, etc.).

Difficult to move once saturated.

Fiber rolls could be transported by high flows if not properly staked and trenched in.

Fiber rolls have limited sediment capture zone.

Do not use fiber rolls on slopes subject to creep, slumping, or landslide.

Plastic netting should not be used when regulatory permits prohibit their use or if there is a potential for plastic netting to endanger wildlife.

Plastic netting is only allowed where fiber rolls will be for short duration and will be removed.

Standards and Specifications

Materials

Fiber rolls must be premanufactured and filled with weed-free rice or wheat straw, wood excelsior, or coconut fiber. Fiber roll must be covered with biodegradable jute, sisal, or coir fiber netting secured tightly at each end.

Fiber rolls must have a minimum functional longevity of 1 year.

Fiber rolls must be:

- 8 to 10 inches in diameter and at least 1.1 lb/ft
- 10 to 12 inches in diameter and at least 3 lb/ft

Large sediment barriers are a subset of fiber rolls. Large sediment barriers must be:

- 18 to 22 inches in diameter
- At least 8 ft in length
- At least 6.5 lb/ft

Fiber rolls used within the jurisdiction of the Lahontan RWQCB must be made entirely of biodegradable materials if the project is near an ESA area, they are intended to be left in place after construction is completed or there are regulatory permits prohibiting the use of non-photo/biodegradable fiber rolls.

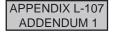
Submit a Certificate of Compliance for fiber rolls.

Rope to fasten fiber rolls must be 1/4 inch in diameter and biodegradable, such as sisal or manila.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4 Fiber Rolls SC-5



Typical Fiber Roll Installation

Before installing fiber roll, remove obstructions from the ground, including rocks, clods, and debris greater than 1 inch in diameter.

For any 20-foot section of fiber roll, prevent the fiber roll from varying more than 5 percent from level.

Use the following spacing unless otherwise noted on the project plans or special provisions:

- 10 feet apart for slopes steeper than 2:1 (H:V)
- 15 feet apart for slopes from 2:1 to 4:1 (H:V)
- 20 feet apart for slopes from 4:1 to 10:1 (H:V)
- 50 feet apart for slopes flatter than 10:1 (H:V)

For Type 1 installations:

- Place in a furrow that is from 2 to 4 inches deep.
- Fasten with wood stakes every 4 feet along the length of the fiber roll.
- Fasten the ends of the fiber roll by placing a stake 6 inches from the end of the roll.
- Drive the stakes into the soil so the top of the stake is less than 2 inches above the top of the fiber roll.

For Type 2 installations:

- Fasten with notched wood stakes and rope.
- Drive stakes into the soil until the notch is even with the top of the fiber roll.
- Lace the rope between stakes and over the fiber roll. Knot the rope at each stake.
- Tighten the fiber roll to the surface of the slope by driving the stakes further into the soil.

If more than one fiber roll is placed in a row, the rolls should be overlapped; not abutted. Stagger overlapping joints in adjacent rows by 5 to 10 feet.

Typical Large Sediment Barrier Installation

Place a single row of fiber rolls end-to-end, approximately parallel with the slope contour. For any 20-foot section of fiber roll, do not allow the fiber roll to vary by more than 5 percent from level.

Place the fiber rolls in a furrow that is from 6 to 8 inches deep.

Secure the fiber rolls with wood stakes 4 feet apart.

Place a stake 18 inches from each end of each fiber roll.

Drive the stakes into the soil such that the top of the stakes are less than 2 inches above the top of the fiber rolls.

Angle the last 6 feet upslope at the downhill end of the run.

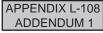


May 2017

Caltrans Storm Water Quality Handbooks Construction Site BMP Manual

109

Fiber Rolls SC-5



Removal

For permanent installations, do not remove fiber rolls. Fiber rolls will degrade over time, while underlying soils are stabilized by other BMPs.

For temporary installations, remove fiber rolls, collect and dispose of sediment accumulation, and fill and compact holes, trenches, depressions or any other ground disturbance to blend with adjacent ground.

Maintenance and Inspection

Remove sediment from behind the fiber roll if sediment is 1/3 of fiber roll height above ground.

Repair or adjust the fiber roll if rills or other evidence of concentrated runoff occur beneath the fiber roll.

Repair or replace the fiber roll if they become split, torn, or unraveled.

Add stakes if the fiber roll slumps or sags.

Replace broken or split wood stakes.

Remove sediment deposits, trash, and debris from fiber roll as needed. If removed sediment is deposited within project limits, it must be stabilized and not exposed to erosion by wind or water.

Perform maintenance as needed or as required by the RE or CGP or LTCGP requirements.

Inspect fiber rolls before and following rainfall events and a least daily during prolonged rainfall. Perform maintenance as needed or as required by the RE.

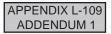
Maintain fiber rolls to provide an adequate sediment holding capacity and runoff velocity reduction.

Fiber roll placement must be shown on the WPCDs.

SWPPP or WPCP

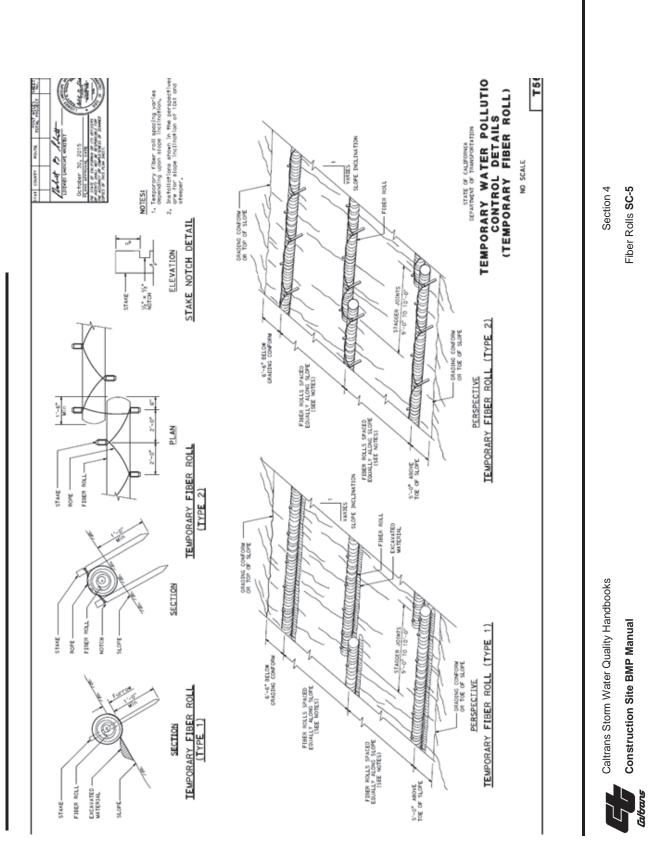
Fiber rolls must be discussed in Section 500.3 of the SWPPP or Section 30.2 of the WPCP.





Fiber Rolls





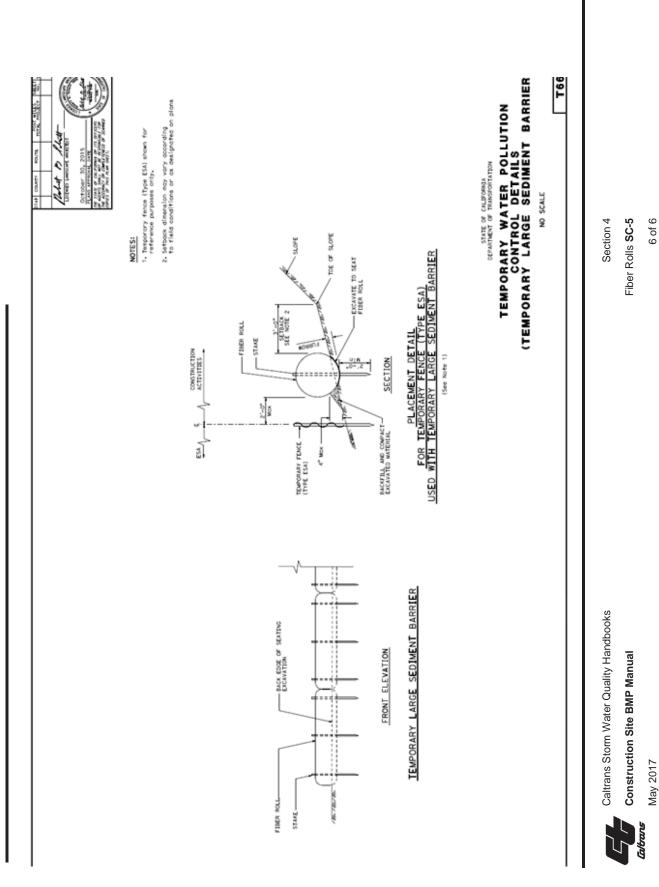
May 2017

5 of 6

APPENDIX L-110 ADDENDUM 1







APPENDIX L-111 ADDENDUM 1

Gravel Bag/Earthen Berm

40

11



Definition and Purpose

A gravel bag berm consists of a single row of gravel bags that are installed end to end to form a barrier across a slope to intercept runoff, reduce its flow velocity, release the runoff as sheet flow and provide some sediment removal. Gravel bags can be used where flows are moderately concentrated, such as ditches, swales, and storm drain inlets (see SC-10 "Drainage Inlet Protection") to divert and/or detain flows.

Earthen berms are linear sediment barriers designed to intercept sheet flows. Water gets impounded upstream of the earthen berm, allowing sediment to settle out and releasing runoff as sheet flow, preventing erosion.

Appropriate Applications

BMP may be implemented on a project-by-project basis with other BMPs when determined necessary and feasible by the RE.

Along streams and channels.

Below the toe of exposed and erodible slopes.

Down slope of exposed soil areas.

Around stockpiles.

Across channels to serve as a barrier for utility trenches or provide a temporary channel crossing for construction equipment, to reduce stream impacts.

Parallel to a roadway to keep sediment off paved areas.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Section 4

Gravel Bag/Earthen Berm SC-6



SC-6

At the top of slopes to divert roadway runoff away from disturbed slopes.

Along the perimeter of a site.

To divert or direct flow or create a temporary sediment basin.

During construction activities in stream beds when the contributing drainage area is less than 5 ac.

When extended construction period limits the use of either silt fences or straw bale barriers.

When site conditions or construction sequencing require adjustments or relocation of the barrier to meet changing field conditions and needs during construction.

At grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.

Limitations

Degraded gravel bags may rupture when removed, spilling contents.

Installation can be labor intensive.

Limited durability for long term projects.

When used to detain concentrated flows, maintenance requirements increase.

Earthen berms should not be used to intercept flows with moderate to high velocities that may erode the earthen berm.

Earthen berms are susceptible to erosion from concentrated flows.

Standards and Specifications

Materials

Bag Material

The gravel bag material must comply with Section 96-1.02F Gravel-Filled Bag of the Standard Specifications.

Bag Size

Each gravel-filled bag should have a length of 24 to 32 inches, width of 16 to 20 inches, and thickness of 3 inches. Alternative bag sizes must be submitted to the RE for approval prior to deployment.

Gravel

Fill material should be between 3/8 and 3/4 inch in diameter, and be clean and free from clay balls, organic matter, and other deleterious materials. The opening of gravel-filled bags must be secured such that gravel



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Gravel Bag/Earthen Berm SC-6



does not escape. Gravel-filled bags are between 30 and 50 lb in weight. Fill material is subject to approval by the RE.

Earthen berms must comply with Standard Specifications Section 13-10.03I

Installation

When used as a linear control for sediment removal:

- Install along a level contour.
- Place gravel-filled bags end-to-end to eliminate gaps in a gravel bag berm.
- Angle the last 6 feet upslope at the downhill end of the run.
- Stack the bags such that the upper row overlaps the joints in the lower row.
- Add layers of gravel-filled bags to increase the height of a temporary gravel bag berm if needed. Stack the bags in the upper row to overlap the joints in the lower row. Stabilize the rows by adding rows of bags in the lower layers.

Generally, gravel bag barriers can be used in conjunction with temporary soil stabilization controls up slope.

Construct gravel bag barriers with a set-back from the toe of a slope. Where it is determined to be not practicable due to specific site conditions, the gravel bag barrier may be constructed at the toe of the slope, but be constructed as far from the toe of the slope as practicable.

Refer to SC-4 "Check Dams" when used for concentrated flows.

Submit a certificate of compliance for gravel-filled bag material.

Earthen berms are constructed with either native soil or an alternative selected material.

Earthen berms must be at least 8 inches in height and 36 inches in width.

Earthen berms must be compacted by manual or mechanical methods.

Maintenance and Inspection

Gravel bag/earthen berms must be inspected in accordance with CGP requirements for the associated project type and risk level or with LTCGP. At a minimum, BMPs must be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.

Reshape or replace gravel bags as needed, or as directed by the RE.

Repair washouts or other damages as needed, or as directed by the RE.

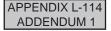
Inspect gravel bag/earthen berms for sediment accumulations and remove sediment when accumulation reaches one-third of the berm height. Removed sediment can be incorporated in the project at locations designated by the RE or disposed of outside the highway right of way in conformance with the Standard Specifications.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Gravel Bag/Earthen Berm SC-6



Gravel Bag/Earthen Berm

Remove gravel bag berms when no longer needed. Remove sediment accumulations and clean, re-grade, and stabilize the area.

If using earthen berm, ensure soil remains compacted through the duration of the berm

Maintain earthen berms to provide sediment-holding capacity and to reduce concentrated flow velocities.

Repair the berm if rills or other evidence of concentrated runoff over it.

Gravel Bag/Earthen Berm placement must be shown on the WPCDs and reflect site conditions.

SWPPP or WPCP

Gravel Bag/Earthen Berm must be discussed in Section 500.3 SWPPP or Section 30.2 of the WPCP.



Construction Site BMP Manual May 2017 Section 4

Gravel Bag/Earthen Berm SC-6





Definition and Purpose

Practices to remove tracked sediment to prevent the sediment from entering a storm drain or receiving waters.

Appropriate Applications

These practices are implemented anywhere sediment is tracked from the project site onto public or private paved roads, typically at jobsite entrances and exits.

Limitations

Sweeping and vacuuming may not be effective when soil is wet or muddy.

Standards and Specifications

General Requirements

Sweep by hand or mechanical methods, such as vacuuming. Kick brooms or sweeper attachments may not be used.

At least one street sweeper in good working order must be at the job site at all times when street sweeping work is required.

Use one of the following types of street sweepers:



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4 Street Sweeping SC-7



- Mechanical sweeper followed by a vacuum-assisted sweeper;
- Vacuum-assisted, dry, waterless, sweeper; or
- Regenerative-air sweeper.

Submit the number and type of street sweepers that will be used on the project for each activity at least 5 business days before starting the activities listed above. Keep and submit street sweeping activity records including sweeping times, locations, and the quantity of material collected.

Sweep paved roads at construction entrance and exit locations and onsite paved areas:

- During clearing and grubbing, earthwork, trenching, and pavement-structure construction activities.
- When vehicles are entering and leaving the job site.
- After soil-disturbing activities.
- After observing off-site tracking of material.

Sweep within 1 hour if sediment or debris is observed during the activities described above that require sweeping.

Sweep within 24 hours if sediment or debris is observed during activities that do not require sweeping.

Keep dust to a minimum during street sweeping activities. Use water for dust control or a vacuum whenever dust generation is excessive or sediment pickup is ineffective. Refer to WE-1 for "Wind Erosion Control" BMPs.

Remove collected material, including sediment, from paved shoulders, drainage inlets, curbs and dikes, and other drainage areas.

After sweeping is finished, collected material may be stockpiled. If not mixed with debris, trash or potentially hazardous objects, consider incorporating the removed sediment back into the project if approved by the RE. Otherwise, dispose of stockpiled material at least once per week according to Standard Specifications Section 14-10.

Street sweeping does not void the requirements for residue collection included in other work activities, such as grooving, grinding, or asphalt concrete planing.

Maintenance and Inspection

Inspect potential sediment tracking locations daily.

Monitor and inspect tracking control BMPs such as TC-1, "Temporary Construction Entrance/Exit," to reduce sediment accumulation on roads.

Be careful not to sweep up any unknown substance or any object that may be potentially hazardous.

Adjust brooms frequently; maximize efficiency of sweeping operations.

Sweeper material must be disposed in compliance with waste regulations.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Section 4 Street Sweeping SC-7

SWPPP or WPCP

Street Sweeping must be discussed in Section 500.3.4 and 600.2 of the SWPPP or Section 30.2.3 of the WPCP.



Construction Site BMP Manual May 2017

APPENDIX L-118 ADDENDUM 1 Section 4

Street Sweeping SC-7

Sandbag Barrier

LA1



Definition and Purpose

A sandbag barrier is a temporary linear sediment barrier consisting of stacked sandbags, designed to intercept and slow the flow of sediment-laden sheet flow runoff. Sandbag barriers allow sediment to settle from runoff before water leaves the construction site.

Appropriate Applications

Along the perimeter of a site.

Along streams and channels.

Below the toe of exposed and erodible slopes.

Down slope of exposed soil areas.

Around stockpiles.

Across channels to serve as a barrier for utility trenches or provide a temporary channel crossing for construction equipment, to reduce stream impacts.

Parallel to a roadway to keep sediment off paved areas.

At the top of slopes to divert roadway runoff away from disturbed slopes.

To divert or direct flow or create a temporary sediment/desilting basin.

During construction activities in stream beds when the contributing drainage area is less than 5 ac.

When extended construction, period limits the use of either silt fences or straw bale barriers.



May 2017

Caltrans Storm Water Quality Handbooks **Construction Site BMP Manual**

Section 4

Sandbag Barrier SC-8



Along the perimeter of vehicle and equipment fueling and maintenance areas or chemical storage areas.

To capture and detain non-stormwater flows until proper cleaning operations occur.

When site conditions or construction sequencing require adjustments or relocation of the barrier to meet changing field conditions and needs during construction.

To temporarily close or continue broken, damaged or incomplete curbs.

Limitations

Limit the drainage area upstream of the barrier to 5 ac.

Degraded sandbags may rupture when removed, spilling sand.

Installation can be labor intensive.

Limited durability for long-term projects.

When used to detain concentrated flows, maintenance requirements increase.

Consider using gravel bags whenever possible since they often do not require as much maintenance or impact wildlife when used near ESAs.

Standards and Specifications

Materials

Sandbag Material

Sandbag can be woven polypropylene, polyethylene or polyamide fabric, minimum unit weight four ounces per square yard, mullen burst strength exceeding 300 psi in conformance with the requirements in ASTM designation D3786, and ultraviolet stability exceeding 70% in conformance with the requirements in ASTM designation D4355. Use of burlap is not acceptable.

Sandbag Size

Each sand-filled bag should have a length of 18 in, width of 12 in, thickness of 3 in, and mass of approximately 33 lb. Bag dimensions are nominal, and may vary based on locally available materials. Alternative bag sizes must be submitted to the RE for approval prior to deployment.

Fill Material

All sandbag fill material can be non-cohesive, Class 1 or Class 2 permeable material free from clay and deleterious material, conforming to the provisions in Standard Specifications Section 47-2.02D "Permeable Material". The requirements for the Durability Index and Sand Equivalent do not apply. Fill material is subject to approval by the RE.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4 Sandbag Barrier SC-8



Installation

When used as a linear sediment control:

- Install along a level contour.
- Turn ends of sandbag row up slope to prevent flow around the ends.
- Generally, sandbag barriers may be used in conjunction with temporary soil stabilization controls up slope to provide effective erosion and sediment control.

Construct sandbag barriers with a set-back of at least 3 ft from the toe of a slope. Where it is determined to be not practical due to specific site conditions, the sandbag barrier may be constructed at the toe of the slope, but should be constructed as far from the toe of the slope as practicable.

Maintenance and Inspection

Inspect sandbag barriers before and after each rainfall event, and weekly year round.

Reshape or replace sandbags as needed, or as directed by the RE.

Repair washouts or other damages as needed, or as directed by the RE.

Inspect sandbag barriers for sediment accumulations and remove sediments when accumulation reaches onethird the barrier height. Removed sediment can be incorporated in the project at locations designated by the RE or disposed of outside the highway right of way in conformance with the Standard Specifications 14-10.

Remove sandbags when no longer needed. Remove sediment accumulation, and clean, re-grade, and stabilized the area.

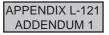
SWPPP or WPCP

Sandbag Barrier must be discussed in Section 500.3 of the SWPPP or Section 30.2 of the WPCP.



Section 4

Sandbag Barrier SC-8



Straw Bale Barrier



Definition and Purpose

A straw bale barrier is a temporary linear sediment barrier consisting of straw bales, designed to intercept and slow sediment-laden sheet flow runoff. Straw bale barriers allow sediment to settle from runoff before water leaves the construction site.

Appropriate Applications

Along the perimeter of a site.

Along streams and channels.

Below the toe of exposed and erodible slopes.

Down slope of exposed soil areas.

Around stockpiles.

Across minor swales or ditches with small catchments.

Around above grade type temporary concrete washouts (see WM-8, "Concrete Waste Management").

Parallel to a roadway to keep sediment off paved areas.

Limitations

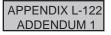
Installation can be labor intensive.

Straw bale barriers are maintenance intensive.

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Caltrans Storm Water Quality Handbooks Construction Site BMP Manual May 2017 Section 3

Straw Bale Barrier SC-9



Degraded straw bales may fall apart when removed or left in place for extended periods.

Can't be used on paved surfaces.

Not to be used for drain inlet protection.

Not to be used in areas of concentrated flow.

Can be an attractive food source for some animals.

May introduce undesirable non-native plants to the area.

Standards and Specifications

Materials

Straw must conform to the provisions in Standard Specifications Section 21-2.02H, "Straw."

Each straw bale should be a minimum of 14 in wide, 18 in high, 36 in long and shave a minimum weight of 50 lb.

The straw bale must be composed entirely of vegetative matter, except for the binding material.

Bales can be bound by either wire, nylon, or polypropylene string placed horizontally. Jute and cotton binding may not be used. Baling wire should be at least 16 gauge. Nylon or polypropylene string should have a diameter of approximately 0.08 in with a breaking strength of 80 lbs.

Wood or metal posts should be used as stakes. Posts for straw bale barriers must comply with Standard Specifications Section 16-2.03 "High-Visibility Fences."

Installation

Place a single row of straw bales end-to-end and parallel with the slope contour. For any 20-foot section of straw bale barrier, do not allow it to vary by more than 5% from level.

Place straw bales in a trench or key them into the slope. Place the bales such that the binding wire or string does not come in contact with the soil. Use wood or metal posts as stakes.

Secure each straw bale with two posts. The first post in each bale must be driven toward the previously laid bale to force the bales together. Drive the posts into the soil such that the top of the post is less than 2 in. above the top of the straw bale. The post must extend a minimum of 2 ft in the ground below the bottom of the straw bales.

Angle the last 6 feet upslope at the downhill end of the run.

See page 5 of this BMP for installation detail.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 3

Straw Bale Barrier SC-9



Other Considerations

Construct straw bale barriers with a set-back of at least 3 ft from the toe of a slope. Where it is determined to be not practical due to specific site conditions, the straw bale barrier may be constructed at the toe of the slope, but be constructed as far from the toe of the slope as practical.

This BMP may be implemented on a project-by-project basis in addition to other BMPs when determined necessary and feasible by the RE.

Straw bale barriers may be used in combination with a silt fence (see SC-2 "Silt Fence") for additional sediment control.

Maintenance and Inspection

At a minimum, BMPs must be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.

Inspect straw bale barriers for sediment accumulations and remove sediment when depth reaches one-third the barrier height. Removed sediment should be disposed of outside the highway right-of-way in conformance with the Standard Specifications.

Replace or repair damaged bales as needed or as directed by the RE.

Repair washouts or other damages as needed or as directed by the RE.

Remove straw bales when no longer needed. Remove sediment accumulation, and clean, re-grade, and stabilized the area.

Straw Bale Barrier placement must be shown on the WPCDs and reflect current site conditions.

SWPPP or WPCP

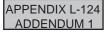
Straw Bale Barrier must be discussed in Section 500.3 of the SWPPP or Section 30.2 of the WPCP.





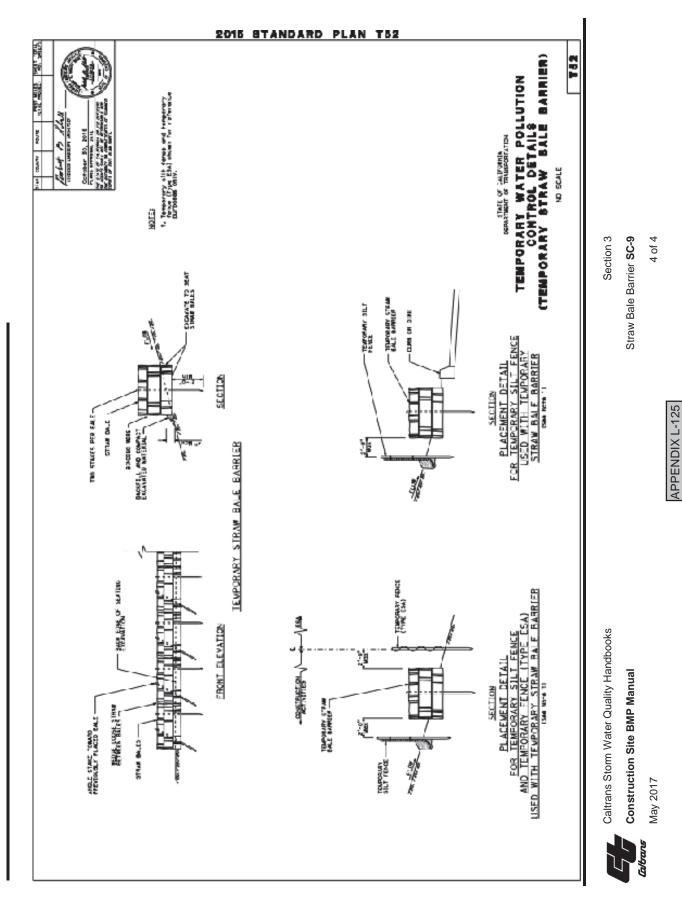
Section 3

Straw Bale Barrier SC-9







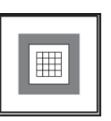


ADDENDUM 1

Temporary Drainage Inlet Protection







Standard Symbol

BMP Objectives	
Soil Stabilization	
Sediment Control	ģ
Tracking Control	1
Wind Erosion Control	1
Non-Stormwater Management	1
Materials and Waste Management	T

Definition and Purpose

Temporary drainage inlet protection consists of devices used at storm drain inlets that detain and/or filter sediment-laden runoff prior to discharge into storm drainage systems. This is achieved by allowing sediment to settle and/or filtering sediment upstream of a linear sediment barrier.

Appropriate Applications

Where ponding will not encroach into highway traffic.

Where sediment laden surface runoff may enter an inlet.

Where disturbed drainage areas have not yet been permanently stabilized.

Where the drainage area is 1 ac or less.

Used year-round.

Limitations

Requires an adequate area for water to pond without encroaching upon traveled way and should not present an obstacle to oncoming traffic.

May require other methods of temporary protection to prevent sediment-laden stormwater and nonstormwater discharges from entering the storm drain system.

Sediment removal may be difficult in high flow conditions or if runoff is heavily sediment laden. If high flow conditions are expected, use other on-site sediment trapping techniques, such as SC-4 "Check Dams," in conjunction with temporary drainage inlet protection.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Temporary Drainage Inlet Protection SC-10





Frequent maintenance is required.

Silt fence inlet protection is appropriate in open areas that are subject to sheet flow and for flows not exceeding 0.5 cfs.

Gravel bag barriers for inlet protection are applicable when sheet flows or concentrated flows exceed 0.5 cfs, and it is necessary to allow for overtopping to prevent flooding.

Fiber rolls and foam barriers are not appropriate for locations where they cannot be properly anchored to the surface.

Excavated drop inlet sediment traps are appropriate where relatively heavy flows are expected and overflow capability is needed.

For drainage areas larger than 1 ac, runoff should be routed to a sediment trapping device designed for larger flows. See BMPs SC-2, "Sediment/Desilting Basin," and SC-3 "Sediment Trap/Curb Cutback."

Standards and Specifications

General Requirements

Refer to Standard Specifications Section 13-6.03C for "Temporary Drainage Inlet Protection" and 13-6.03F for "Rigid Plastic Barriers."

Identify existing and/or planned storm drain inlets that have the potential to receive sediment-laden surface runoff. Determine if storm drain inlet protection is needed, and which method or combination of methods to use. Update inlet protection as site conditions change.

Use a linear sediment barrier to redirect runoff and control ponding in order to prevent ponding from encroaching on the traveled way or overtopping the curb or dike.

Prior to installation, clear the area around each inlet of obstructions, including rocks, clods, and debris greater than 1-in. in diameter.

Install linear sediment barriers upstream of the inlet and parallel with the curb, dike, or flow line to keep sediment from entering the inlet.

Remove accumulated sediment according to Maintenance and Inspection recommendations. Accumulated sediment may be disposed of outside the highway right-of-way in conformance with the Standard Specifications Section 14-10.

Type 1: Silt Fence

This method should be used for drain inlets requiring protection in areas where finished grade is established and erosion control seeding has been applied or is pending. The silt fence (Type 1) protection is illustrated on Page 6. Do not place filter fabric underneath the inlet grate since the collected sediment may fall into the drain inlet when the fabric is removed or replaced.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Temporary Drainage Inlet Protection SC-10

Section 4



Type 2 - Excavated Drop Inlet Sediment Trap

This method may be used for drainage inlets requiring protection in areas that have been cleared and grubbed, and where exposed soil areas are subject to grading. The excavated drop inlet sediment trap (Type 2) is illustrated on Page 7. Similar to constructing a temporary silt fence; see BMP SC-1, "Silt Fence." Size the excavated trap to provide a minimum storage capacity calculated at the rate of 67 yd3/ac of drainage area.

Type 3A: Gravel Bag Berm for Combined Inlets

This method may be used for drain inlets surrounded by AC or paved surfaces. The gravel bag berm for combined inlets (Type 3A) is illustrated on Pages 8-9. Flow from a severe storm must not overtop the curb. In areas of high clay and silts, use filter fabric and gravel as additional filter media. Construct gravel bags in accordance with BMP SC-6, "Gravel Bag Berm." Gravel bags are used due to their high permeability.

Type 3B: Gravel Bag Berm for Grate Inlets

This method may be used for drainage inlets surrounded by AC or paved surfaces. The gravel bag berm for grate inlets (Type 3B) is illustrated on Page 10. In areas of high clay and silts, use filter fabric and gravel as additional filter media. Place gravel bags in accordance with BMP SC-6, "Gravel Bag Berm." Gravel bags are used due to their high permeability.

Type 4A – Flexible Sediment Barrier for Grate Inlets

This method may be used for drainage inlets requiring protection in areas that have been cleared and grubbed, and where exposed soil areas subject to grading. Flexible Sediment Barrier for Grate Inlets (Type 4A) is placed around the inlet and keyed and anchored to the surface. Flexible Sediment Barriers are intended for use as inlet protection where the area around the inlet is unpaved and the foam barrier or fiber roll can be secured to the surface. Place fiber rolls over the erosion control blanket. RE or appropriate licensed professional approval is required.

Type 4B – Flexible Sediment Barrier for Combined Inlets

This method may be used for drainage inlets requiring protection in areas that have been cleared and grubbed, and where exposed soil areas subject to grading. Flexible Sediment Barrier for Combined Inlets (Type 4B) is placed in rows upstream of the inlet and along the curb or dike. The barriers are keyed and anchored to the surface. Flexible Sediment Barriers are intended for use as inlet protection where the area around the inlet is unpaved and the foam barrier or fiber roll can be secured to the surface. Place the barrier to provide a tight joint with the curb or dike. Cut the cover fabric or jacket to ensure a tight fit. RE and Construction Storm Coordinator approval is required.

Type 5 – Sediment Filter Bag

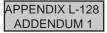
This method may be used in areas with vehicle and equipment traffic that could damage aboveground inlet protection devices. The Sediment Filter Bags are installed as follows: (1) Remove the drainage inlet grate, (2) Place the sediment filter bag in the opening, and (3) Replace the grate to secure the sediment filter bag in place.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Temporary Drainage Inlet Protection SC-10

Section 4



SC-10

Type 6A – Catch Basin with Grate

Catch Basin with Grate (Type 6A) is shown on page 16. Cover grate inlet with rigid plastic barrier and secure on each end with gravel-filled bags. If using a rigid sediment barrier and the grated inlet does not have a curb opening, placed the barrier using a gasket to prevent runoff from flowing under the barrier. Secure the barrier to the pavement with nails and adhesive, gavel-filled bags, or a combination of both.

Type 6B – Curb Inlet without Grate

Curb Inlet without Grate (Type 6B) is shown on page 16. Place the flexible sediment barrier across the curb inlet opening and secure with gravel-filled bags.

Maintenance and Inspection

General Requirements

Inspect all drainage inlet protection devices before and after every rainfall event and weekly year round. During extended rainfall events, inspect inlet protection devices at least once every 24 hours.

Inspect the storm drain inlet after severe storms to check for bypassed material.

Remove all drainage inlet protection devices within thirty days after the site is stabilized, or when the inlet protection is no longer needed.

- Bring the disturbed area to final grade and smooth and compact it. Appropriately stabilize all bare areas around the inlet.
- Clean and re-grade area around the inlet and clean the inside of the storm drain inlet as it must be free
 of sediment and debris at the time of final inspection.

Type 1 - Filter Fabric Fence

Make sure the stakes are securely driven in the ground and are structurally sound (i.e., not bent, cracked, or splintered, and are reasonably perpendicular to the ground). Replace damaged stakes.

Replace or clean the fabric when the fabric becomes clogged with sediment. Make sure the fabric does not have any holes or tears. Repair or replace fabric as needed or as directed by the RE.

At a minimum, remove the sediment behind the fabric fence when accumulation reaches one-third the height of the fence or barrier height.

Type 2 – Excavated Drop Inlet Sediment Trap

Remove sediment from basin when the volume of the basin has been reduced by one-half.

Type 3A - Gravel Bag Berm for Combined Inlets

Inspect bags for holes, gashes, and snags.

Check gravel bags for proper arrangement and displacement. Remove the sediment behind the barrier when it reaches one-third the height of the barrier.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual

May 2017

Section 4

Temporary Drainage Inlet Protection SC-10



SC-10

SC-10

Type 3B - Gravel Bag Berm for Grate Inlets

Inspect bags for holes, gashes, and snags.

Check gravel bags for proper arrangement and displacement. Remove the sediment behind the barrier when it reaches one-third the height of the barrier.

Type 4A Flexible Sediment Barrier for Grate Inlets

Check flexible sediment barrier for proper arrangement and displacement. Remove the sediment behind the barrier when it reaches one-third the height of the barrier.

Type 4B Flexible Sediment Barrier for Combined Inlets

Check flexible sediment barrier for proper arrangement and displacement. Remove the sediment behind the barrier when it reaches one-third the height of the barrier.

Type 5 Sediment Filter Bag

Change sediment filter bag carefully ensuring not to spill captured sediment into the drainage inlet.

Type 6A Catch Basin with Grate

Check barrier and gravel-filled bags for proper arrangement and displacement. Routinely remove accumulated sediment

Type 6B Curb Inlet without Grate

Check barrier and gravel-filled bags for proper arrangement and displacement.

Remove the sediment behind the barrier when it reaches one-third the height of the barrier.

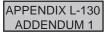
SWPPP or WPCP

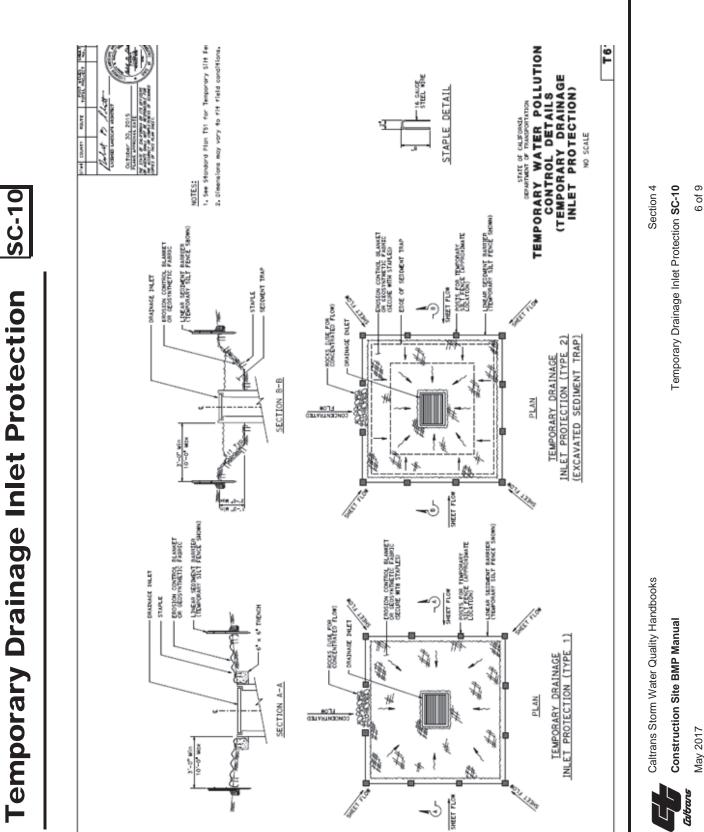
Temporary Drainage Inlet Protection must be discussed in Section 500.3.2 of SWPPP and/or Section 30.2.2 of the WPCP. Temporary Drainage Inlet Protection placement type must be shown on the WPCDs and reflect site temporary conditions.



Section 4

Temporary Drainage Inlet Protection SC-10





APPENDIX L-131 ADDENDUM 1



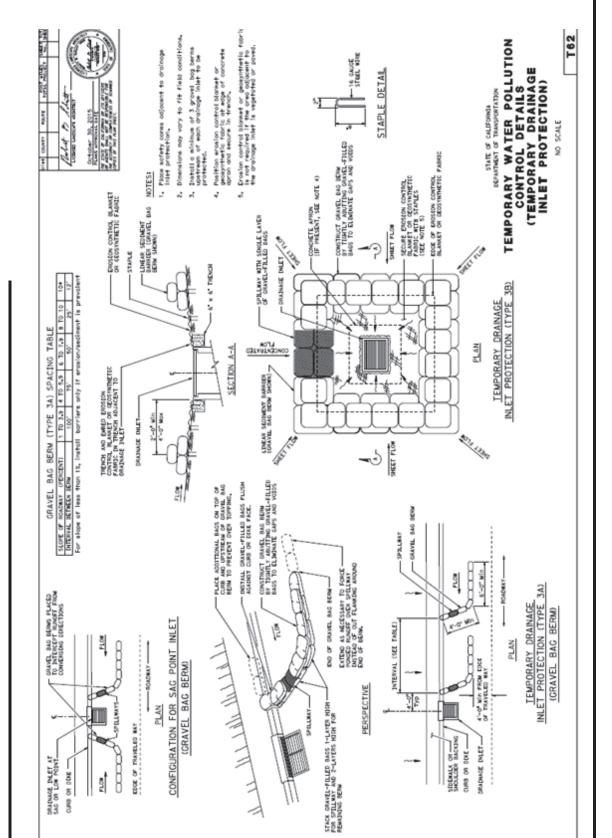
7 of 9

Temporary Drainage Inlet Protection SC-10

Caltrans Storm Water Quality Handbooks **Construction Site BMP Manual**

May 2017

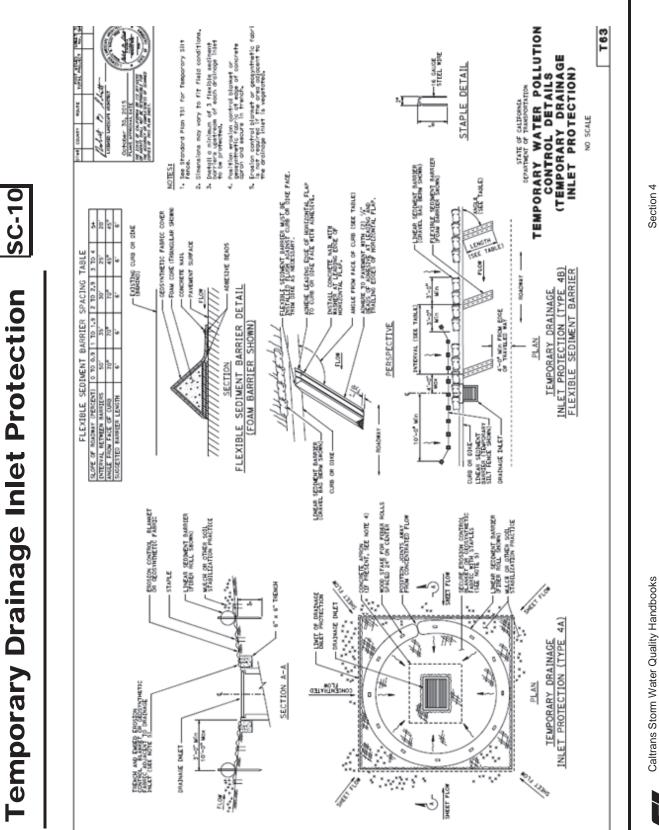
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SC-10

Temporary Drainage Inlet Protection

Section 4





8 of 9

Temporary Drainage Inlet Protection SC-10

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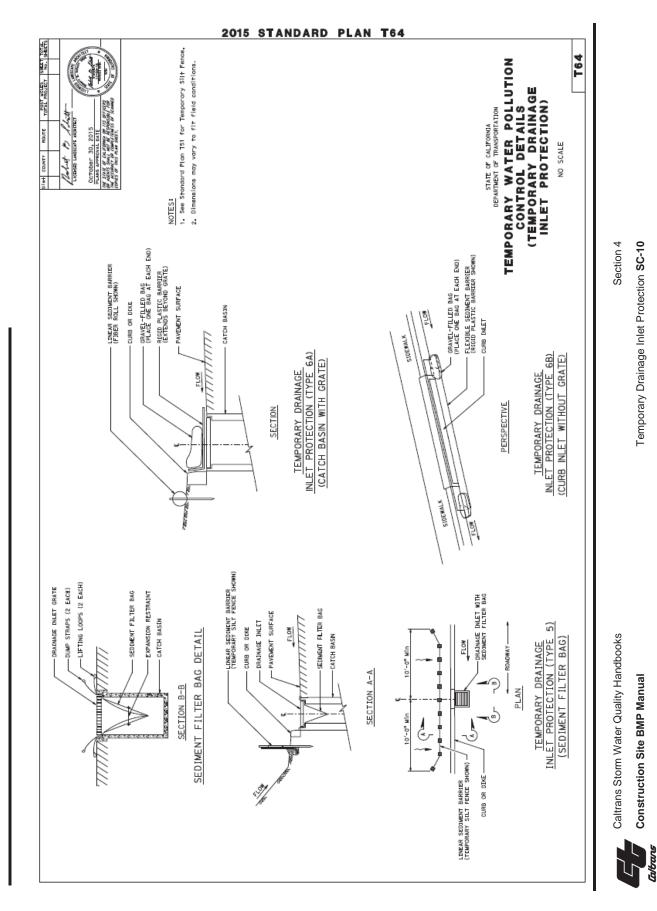
Construction Site BMP Manual

May 2017

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Temporary Drainage Inlet Protection

SC-10



May 2017

9 of 9

APPENDIX L-134 ADDENDUM 1

4



Definition and Purpose

Compost socks are a mesh sock containing compost that act as three dimensional, biodegradable structures that intercept and filter sheet flow. Compost socks can filter runoff, retain sediment, and reduce sheet flow velocities. Compost socks may be used as either a temporary or permanent sediment control measure.

Appropriate Applications

Compost socks may be applied as both temporary and permanent sediment controls.

Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.

Along the perimeter of a project.

As check dams in unlined ditches.

Down-slope of exposed soil areas.

At operational storm drains as a form of inlet protection.

Around temporary stockpiles.

Limitations

Compost can potentially leach nutrients into runoff and negatively affect water quality. Compost should not be used directly upstream from a nutrient-impaired water body.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Section 4 Compost Socks SC-11 1 of 4



Compost socks are susceptible to damage by traffic. Compost socks may be used around heavy machinery, but frequent disturbance decreases sock performance.

Standards and Specifications

General Requirements

Compost socks must comply with Standard Specifications 21-2.02Q and 21-2.03Q.

Compost for compost socks must comply with Standard Specifications Section 21-2.02K, except the particle size must be for coarse compost.

Compost sock installation is illustrated in Standard Plan H51.

Compost socks consist of a 12-inch diameter mesh tube that is filled with compost. The mesh tube must be composed of a natural biodegradable product such as cotton, jute, sisal, burlap, or coir. The mesh tube must be clean, evenly woven, and free of encrusted concrete or other contaminating materials, cuts, tears, broken or missing yarns, and thin, open, or weak places.

Compost socks must have a functional longevity of one year.

Installation

Before installing compost sock, remove obstructions from the ground including rocks, clods, and debris greater than 1 inch in diameter.

For any 20-foot section of compost sock, prevent the compost sock from varying more than 5 percent from level.

Use the following spacing unless otherwise noted on the project plans or special provisions:

- 10 feet apart for slopes steeper than 2:1 (H:V)
- 15 feet apart for slopes from 2:1 to 4:1 (H:V)
- 20 feet apart for slopes from 4:1 to 10:1 (H:V)
- 50 feet apart for slopes flatter than 10:1 (H:V)

Place mesh tube, secure the end, and fill uniformly with compost. Secure the remaining end.

For Type 1 installations:

- Place in a furrow that is from 2 to 4 inches deep.
- Fasten with wood stakes every 4 feet along the length of the compost sock.
- Fasten the ends of the compost sock by placing a stake 6 inches from the end of the sock.
- Drive the stakes into the soil so the top of the stake is less than 2 inches above the top of the compost sock.

For Type 2 installations:

• Fasten with notched wood stakes and rope.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Compost Socks SC-11



- Drive stakes into the soil until the notch is even with the top of the compost sock.
- Lace the rope between stakes and over the compost sock. Knot the rope at each stake.
- Tighten the fiber roll to the surface of the slope by driving the stakes further into the soil.

If more than one compost sock is placed in a row, the socks should be overlapped; not abutted. Stagger overlapping joints in adjacent rows by 5 to 10 feet.

Removal

For permanent installations: do not remove compost socks. Compost socks will degrade over time.

For temporary installations: remove sock, rope and stakes if ordered by the RE. Cut sock and empty contents in place.

Other Considerations

Compost may be pre-seeded before placement into the mesh tube to assist in establishing vegetation. Once established, vegetation root systems provide additional soil stability and runoff filtration.

Permanent compost sock applications are particularly advantageous below embankments, especially adjacent streams, by limiting re-entry and the disturbance to sensitive areas.

Organic material in compost is important for pollutant removal and vegetation establishment. Organic content of the compost should range from 30 to 65% depending on site conditions.

Maintenance and Inspection

Inspect compost socks before and after each rainfall event, and weekly year round.

Remove sediment from behind the compost sock if sediment is 1/3 of compost sock height above ground.

Repair or adjust the compost sock if rills or other evidence of concentrated runoff occur beneath the sock.

Repair or replace compost socks if they become split, torn, or unraveled.

Add stakes if the compost sock slumps or sags.

Replace broken or split wood stakes.

Maintain compost socks to provide an adequate sediment holding capacity and runoff velocity reduction.

SWPPP or WPCP

Compost Socks must be discussed in Section 500.3 of the SWPPP or Section 30.2 of the WPCP.



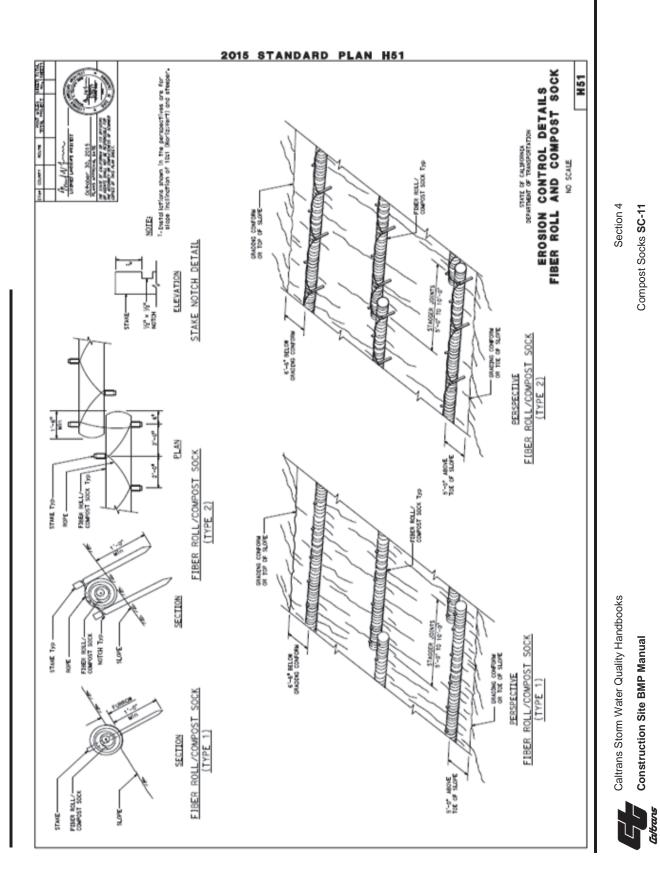
Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4 Compost Socks SC-11 3 of 4



Compost Socks





May 2017

4 of 4

APPENDIX L-138 ADDENDUM 1

Flexible Sediment Barrier



Definition and Purpose

Flexible sediment barriers are synthetic alternatives to fiber rolls, compost socks, and straw bale barriers. Flexible sediment barriers consist of a geosynthetic fabric with a urethane foam-filled core and a fabric apron that helps to prevent undermining and scour. These synthetic linear sediment barriers are generally more robust sediment controls than standard fiber rolls, and may be appropriate for continuous use in stormwater collection areas.

Appropriate Applications

Along the perimeter of a project.

As check dams in ditches, channels, or other stormwater collection areas.

Down-slope of exposed soil areas.

At operational storm drains as a form of inlet protection.

Around temporary stockpiles.

On either paved surfaces or soil.

As a linear sediment control for SC-10 "Temporary Drain Inlet Protection."

Limitations

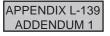
Frequent maintenance is required if sediment-laden discharges are upstream of the BMP to maintain it operational.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 4

Flexible Sediment Barrier SC-12



SC-12

Standards and Specifications

General Requirements

Flexible sediment barriers must comply with Standard Specifications Sections 13-10.02I and 13-10.03H.

Flexible sediment barriers consist of:

- A urethane foam-filled core.
- Geosynthetic fabric cover and flap.
- Triangular, circular, or square cross section.
- Vertical height of at least 5 inches after installation.
- Horizontal flap at least 8 inches in width.
- Length of at least 4 feet per unit.
- Ability to interlock separate units into a long barrier such that water will not flow between units.

Geosynthetic fabric for flexible sediment barriers covers must have:

- Minimum grab break load of 200 lbs., per ASTM D4632.
- Minimum apparent elongation of 15%, per ASTM D4632.
- Average water flow rate of 100-150 gallons per minute per square foot, per ASTM D4491.
- Minimum permittivity of 0.05 1/sec, per ASTM D4491.
- Maximum apparent opening size of the 40 U.S. standard sieve size, per ASTM D4751.
- Minimum ultraviolet radiation resistance of 70% retained grab breaking load at 500 hours of exposure, per ASTM D4355.

Submit a certificate of compliance for flexible sediment barriers.

Installation

Remove obstructions, including rocks, clods, and debris greater than 1 inch in diameter, from the ground.

Secure flexible sediment barriers to pavement with:

1-inch concrete nails, 1-inch washers, and solvent-free adhesive,

Gravel-filled bags, or

A combination of both of the above methods.

Secure flexible sediment barriers to soil with 6-inch nails and 1-inch washers.

Secure connection points of two adjacent sections of flexible sediment barriers with 2 nails.

Do not pierce the foam core of the barrier with nails.

Maintenance and Inspection

Inspect flexible sediment barriers before and after each rainfall event, and weekly year round.



Caltrans Storm Water Quality Handbooks Construction Site BMP Manual May 2017 Section 4

Flexible Sediment Barrier SC-12



Maintain a flexible sediment barriers to provide sediment-holding capacity and to reduce concentrated flow velocities.

Repair or adjust the flexible sediment barriers if rills or other evidence of concentrated runoff occur beneath it.

Repair or replace split, torn, or unraveled material. Add or replace posts, stakes, or fasteners as needed to prevent sagging or slumping.

Reattach any flexible sediment barriers that detaches from the pavement.

Remove sediment deposits if the sediment exceeds 1/3 of the height above the ground behind a foam barrier.

SWPPP or WPCP

Remove Flexible sediment barriers must be discussed in Section 500.3 of the SWPPP or Section 30.2 of the WPCP.

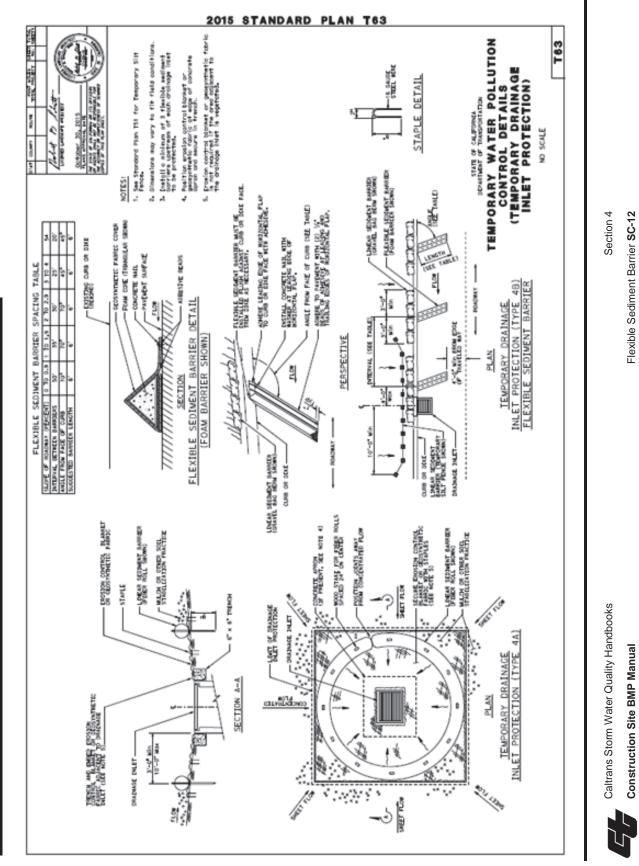




Flexible Sediment Barrier SC-12

Flexible Sediment Barrier





APPENDIX L-142 ADDENDUM 1

4 of 4

Flexible Sediment Barrier SC-12

724

Construction Site BMP Manual

May 2017

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Section 5 Wind Erosion Control BMP

5.1 Wind Erosion Control

Wind erosion control consists of applying water or other dust palliatives as necessary to prevent or alleviate dust nuisance. Wind erosion control BMPs are shown in Table 5-1.

Table 5-1. Wind Erosion Control BMPs		
ID	BMP Name	
WE-1	Wind Erosion Control	

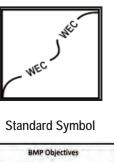
Other BMPs that are sometimes applied to disturbed soil areas to control wind erosion are BMPs SS-3 through SS-7, shown in Section 3 of this Manual; BMP TC-2, shown in Section 6; and BMP NS-7, shown in the Section 7. The remainder of this Section describe the working details for the Wind Erosion Control BMP.





Wind Erosion Control







Definition and Purpose

Wind erosion control consists of applying water or other dust palliatives as necessary to prevent or alleviate erosion by the forces of wind. Dust control must be applied in accordance with Caltrans standard practices. Covering of small stockpiles or areas is an alternative to applying water or other dust palliatives; see SS-7 for "Temporary Cover and Rolled Erosion Control Products"

Must comply with local agencies such as Air Quality Management District's requiring dust control plans or dust control permits as well as any Air Clean Act requirements.

Appropriate Applications

This practice is generally implemented on all exposed soils subject to wind erosion.

Limitations

Effectiveness depends on soil, temperature, humidity and wind velocity.

Chemically treated subgrades could cause soil to become water repellant, preventing infiltration or the long-term re-vegetation of the site.

Standards and Specifications

Standard Specification Section 10-5 contains general requirements for "Dust Control."

Effective dust control is accomplished by applying dust palliatives, temporary Soil Stabilization BMPs, Tracking Controls and managing stockpiles.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 5

Wind Erosion Control WE-1



"Dust Palliatives" are covered under Section 18 of the Standard Specifications. Acceptable dust palliatives include water, dust control binders, and dust suppressants. Dust control binders must comply with specifications for tackifier. Dust suppressants include petroleum-based organic product, nonpetroleum-based organic product, hygroscopic product, and synthetic polymer emulsion.

If a dust suppressant or tackifier is used, submit a Dust Treatment Plan. Submit a certificate of compliance for dust suppressants, tackifiers, and fibers.

Identify and stabilize key access points with the use of Tracking Control BMPs.

Minimize the impact of dust by anticipating the direction of prevailing winds.

Temporary soil stabilization BMPs, such as SS-3 "Hydraulic Mulch", SS-4 "Hydroseed, SS-5 "Soil Binders, also provide wind erosion control benefits.

Ensure proper implementation of BMPs WM-3, "Stockpile Management," and SC-7, "Street Sweeping," as these BMPs provide wind erosion control benefits.

Ensure that water is applied by means of pressure-type distributors or pipelines equipped with a spray system or hoses and nozzles to ensure even distribution.

All distribution equipment should be equipped with a positive means of shutoff.

Chemical dust suppression products could have environmental water quality impacts. Depending on the product and the time of application, water quality sampling for non-visible pollutants should be assessed when a storm even is forecasted.

For chemical or petroleum based organics stabilization, there are many products available. These products should not create any adverse effects on stormwater, plant life, groundwater and should meet all applicable regulatory requirements including inspection, documentation, monitoring and reporting requirements.

Unless water is applied by means of pipelines, at least one mobile unit should be available at all times to apply water or dust palliative to the project.

If reclaimed water is used, the sources and discharge must meet California Department of Health Services water reclamation criteria and the RWQCB requirements. Non-potable water must not be conveyed in tanks or drain pipes that will be used to convey potable water and there must be no connection between potable and non-potable supplies. Non-potable tanks, pipes and other conveyances must be marked "NON-POTABLE WATER - DO NOT DRINK."

Appendix B of this Manual includes additional information on selecting temporary soil stabilization products that could be used for Wind Erosion Control.

Maintenance and Inspection

Check areas where wind erosion controls have been implemented daily for erosion and visible dust.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 5

Wind Erosion Control WE-1



WE-1

Most water-based dust control measures require frequent application. Obtain vendor or independent information on longevity of chemical dust suppression.

SWPPP or WPCP

Wind Erosion Control must be discussed in Section 500.3.5 of the SWPPP or Section 30.2.4 of the WPCP.



Construction Site BMP Manual May 2017

> APPENDIX L-146 ADDENDUM 1

Section 5

Wind Erosion Control WE-1

Section 6 Tracking Control BMP

6.1 Tracking Control

Tracking control consists of preventing or reducing vehicle tracking from entering a storm drain or watercourse. Tracking control BMPs are shown in Table 6-1.

Table 6-1. Tracking Control BMPs	
ID	BMP Name
TC-1	Temporary Construction Entrance/Exit
TC-2	Temporary Construction Roadway
TC-3	Entrance/Outlet Tire Wash

The remainder of this section describe the working details for the tracking control BMPs.

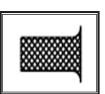




Temporary Construction Entrance/Exit







Standard Symbol

BMP Objectives	
Soil Stabilization	4
Sediment Control	10
Tracking Control	V
Wind Erosion Control	
Non-Stormwater Management	
Materials and Waste Manageme	nt

Definition and Purpose

A temporary construction entrance/exit is defined by a point of entrance/exit to a construction site that is stabilized to reduce the tracking of mud and dirt onto public roads by construction vehicles.

Appropriate Applications

Where dirt or mud can be tracked onto public roads.

Adjacent to water bodies.

Where poor soils are encountered.

Where dust is a problem during dry weather conditions.

Limitations

Site conditions will dictate design and need.

Limit the points of entrance/exit to the construction site.

Limit speed of vehicles to control dust.

Standards and Specifications

General Requirements

Temporary construction entrance/exit must comply with Standard Specification Section 13-7.03 Temporary Construction Roadways and Entrances.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 6

Temporary Construction Entrance/Exit TC-1



Corrugated steel panels must be pressed or shop welded. They should have a slot or hook for coupling the panels together.

Class 8 RSP fabric shall be used to line temporary construction entrance/exit. Do not drive on the fabric until the rock is spread. Repair damaged fabric by placing new fabric over the damaged area with at least an 18-inch overlap on all edges.

Type A rock should be used for a Type 1 temporary construction entrance/exit. Type A rock must comply with Section 13-7.03B (2) of the Standard Specifications.

Type B rock should be used for a Type 2 temporary construction entrance/exit. Type B rock must comply with Section 13-7.03B (2) of the Standard Specifications.

Submit details for alternative construction entrances at least 5 business days before installation. This may include alternatives for the sump and corrugated steel panels or to eliminate the sump.

Installation

Prepare the location for the temporary construction entrance/exit as follows:

- Remove vegetation and clear debris.
- Grade the ground to a uniform plane.
- Remove sharp objects that could damage the fabric.
- Compact the top 1.5 feet of soil to at least 90 percent relative compaction.

Construct the temporary construction entrance/exit as follows (standard plans attached below):

- Place the fabric along the length of the construction entrance/exit.
- Overlap fabric ends by at least 12 inches.
- Cover the fabric with rock within 24 hours.
- Spread rock over the fabric in the direction of traffic.
- Keep a 6-inch layer of rock over the fabric to prevent damage from the spreading equipment.

For a Type 2 temporary construction entrance/exit, place rock under the corrugated steel panels. Use at least 6 corrugated steel panels for each entrance. Couple the panels together to prevent movement.

If a sump is used, install it within 20 ft of the temporary construction entrance/exit.

Other Considerations

Implement BMP SC-7, "Street Sweeping" as required under Section 13-4.03F and 13-7 of the Standard Specifications.

Require all employees, subcontractors, and suppliers to utilize the temporary construction entrance/exit. If the construction entrance/exit has metal plates as part of the BMP, all vehicles must be required to utilize them.

Route runoff from temporary construction entrances/exits through a sediment-trapping device before discharge.

Design a temporary construction entrance/exit to support the heaviest vehicles and equipment that will use it.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual

May 2017

Section 6

Temporary Construction Entrance/Exit TC-1





The use of asphalt concrete (AC) grindings is not allowed (high potential for leaching hydrocarbons) unless it complies with Section 6.8 of the 2016 Caltrans SWMP. Designate combination or single purpose entrances and exits to the construction site to maintain smooth flow of traffic.

Maintenance and Inspection

Inspect before and after each rainfall event, and weekly year-round.

Inspect immediate site access roads daily, implement SC-7, "Street Sweeping" as needed.

Remove aggregate, separate, and dispose of sediment if temporary construction entrance is clogged with sediment.

Keep all temporary construction entrance/exit ditches clear.

SWPPP or WPCP

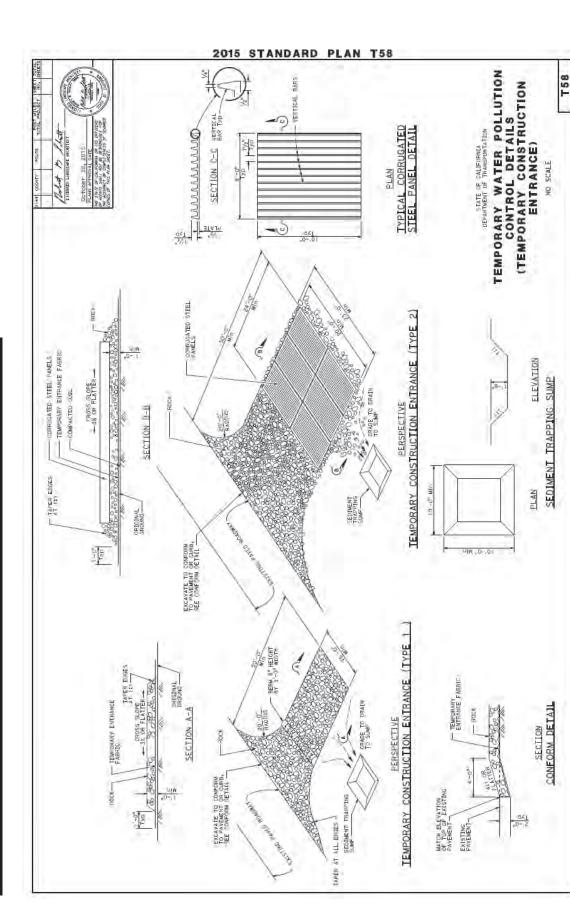
Tracking Control BMPs are to be included and discussed in section 500.3.4 or Section 600.2 for SWPPP and Section 30.2.3 of the WPCP.



Temporary Construction Entrance/Exit TC-1

Temporary Construction Entrance/Exit

TC-1



APPENDIX L-151 ADDENDUM 1

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Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual

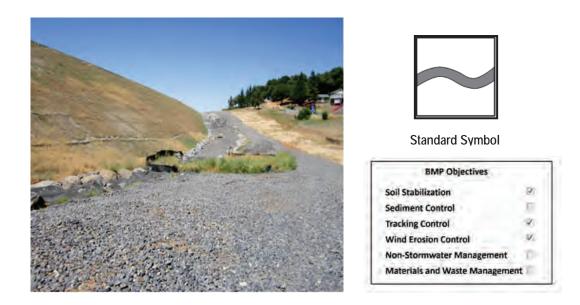
May 2017

4 Of 4

Temporary Construction Entrance/Exit TC-1

Section 6





Definition and Purpose

A temporary construction roadway is a stabilized access road. It is designed for the control of dust and erosion created by vehicular tracking.

Appropriate Applications

Use construction roadways and short-term detour roads:

- Where mud tracking is a problem during wet weather.
- Where dust is a problem during dry weather.
- When road is adjacent to water bodies.
- Where poor soils are encountered.
- Where there are steep grades and additional traction is needed.

Limitations

Materials will likely need to be removed prior to final grading and stabilization.

Site conditions will dictate design and need.

May not be applicable to very short duration projects.

Limit speed of vehicles to control dust.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual

May 2017

Temporary Construction Roadway TC-2





Standards and Specifications

General Requirements

Refer to Standard Specification Section 13-7.03 for temporary roadway standards.

Class 10 RSP fabric must be used to line temporary construction roadways. Do not drive on the fabric until the rock is spread. Repair damaged fabric by placing new fabric over the damaged area with at least an 18-inch overlap on all edges.

Type A or Type B rock may be used for temporary construction roadways. Type A and B rock must comply with Standard Specifications Section 13-7.03B(2). Coordinate materials with those used for stabilized construction entrance. Refer to TC-1, "Temporary Construction Entrance/Exit."

The use of cold mix asphalt, AC grindings, or blast furnace slag for stabilized construction roadway is not allowed (high potential to leach hydrocarbons) unless it complies with Section 6.8 of the 2016 Caltrans SWMP.

Installation

Prepare the location for the temporary roadway as follows:

- Remove vegetation and clear debris.
- Grade the ground to a uniform plane.
- Grade the ground surface to drain in a way that prevents runoff from leaving the construction site.
- Remove sharp objects that could damage the fabric.
- Compact the top 1.5 feet of soil to at least 90% relative compaction.

Construct the temporary construction roadway as follows (standard plans attached below):

- Place the fabric along the length of the roadway.
- Overlap fabric ends by at least 12 inches.
- Cover the fabric with rock within 24 hours.
- Spread rock over the fabric in the direction of traffic.
- Keep a 6-inch layer of rock over the fabric to prevent damage from the spreading equipment.

Other Considerations

Design stabilized access to support the heaviest vehicles and equipment that will use it.

Implement TC-1 "Temporary Construction Entrance/Exit" and TC-3 "Entrance/Outlet Tire Wash" in combination with temporary construction roadway for maximum tracking control.

Maintenance and Inspection

Inspect before and after each rainfall event, and weekly year-round.

Inspect immediate site access roads daily, implement SC-7, "Street Sweeping" as needed.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual

May 2017

Section 6

Temporary Construction Roadway TC-2



Keep all temporary roadway ditches clear.

When no longer required, remove stabilized construction roadway and re-grade, re-vegetate and repair slopes.

SWPPP or WPCP

Tracking Control BMPs are to be included and discussed in Section 500.3.4 or Section 600.2 SWPPP or Section 30.2.3 of the WPCP.



Construction Site BMP Manual May 2017 Section 6

Temporary Construction Roadway TC-2





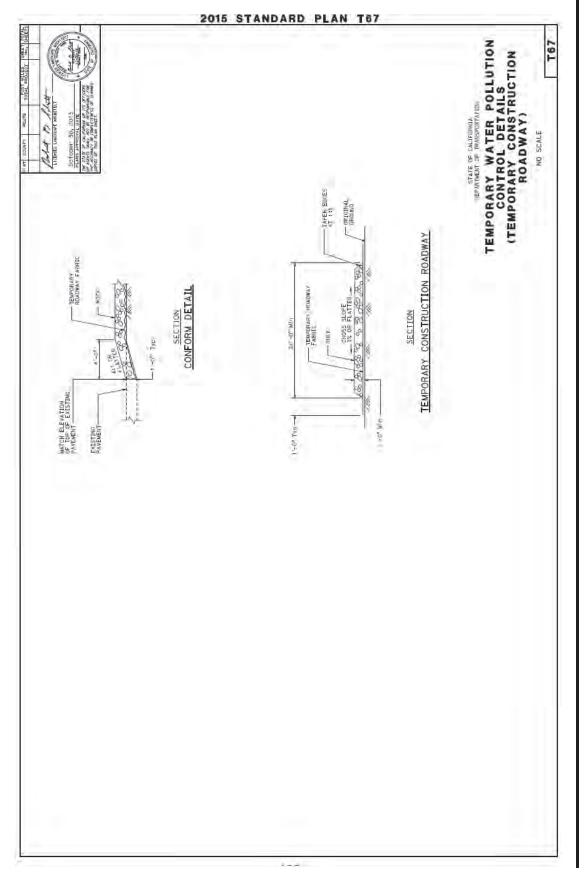
4 of 4

Temporary Construction Roadway TC-2

Section 6

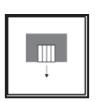
Construction Site BMP Manual

May 2017









Standard Symbol



Definition and Purpose

A tire wash is an area located at stabilized construction access points to remove sediment from tires and undercarriages, and to prevent sediment from being transported onto public roadways.

Appropriate Applications

Tire washes may be used on construction sites where construction vehicles may track dirt and mud onto public roads.

This BMP may be implemented on a project-by-project basis with other BMPs when determined necessary and feasible by the RE.

Limitations

Requires a supply of wash water and way to collect or capture tire wash area runoff.

Requires a turnout or doublewide exit to prevent entering vehicles from driving through the wash area.

Standards and Specifications

Require all employees, subcontractors, and others that leave the site with mud-caked tires and/or undercarriages to use the wash facility.

Incorporate with a temporary construction entrance/exit. See TC-1, "Temporary Construction Entrance/Exit."

Construct on level ground when possible, on a pad of Type A or Type B rock. Either Class 8 or 10 RSP fabric should be placed below the rock.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 6

Temporary Entrance/Outlet Tire Wash TC-3



Temporary Entrance/Outlet Tire Wash



Wash rack must be designed and constructed/manufactured for anticipated traffic loads.

Vehicle wash water is non-stormwater that requires management and disposal. See NS-8, "Vehicle and Equipment Cleaning."

Provide a drainage ditch that will convey the runoff from the wash area to a sediment trapping device or similar device. The drainage ditch should be of sufficient grade, width, and depth to carry the wash runoff.

Implement BMP SC-7, "Street Sweeping" as needed.

Refer to TC-1, "Temporary Construction Entrance/Exit," for details regarding design and installation of construction entrance and exits to the project site.

Maintenance and Inspection

Inspect before, daily during extended rain events, after each rain event, and weekly year round.

Inspect immediate site access roads daily, implement SC-7, "Street Sweeping" as needed.

Remove accumulated sediment in wash rack and/or sediment trap to maintain system capacity and performance.

Inspect routinely for damage and repair as needed. Document non-stormwater (sediment trapping device or similar device) in appropriate inspection form.

SWPPP or WPCP

Temporary Entrance/Outlet Tire Wash is to be included and discussed in section 500.3.4 or Section 600.2 for a SWPPP or Section 30.2.3 of the WPCP.



Section 6

Temporary Entrance/Outlet Tire Wash TC-3



Section 7

Non-Storm Water Management BMP

7.1 Non-Storm Water Management

Non-stormwater management (BMPs) are source control BMPs that prevent pollution by limiting or reducing potential pollutants at their source before they come in contact with stormwater. These practices involve day-to-day operations of the construction site and are usually under the control of the Contractor. These BMPs are also referred to as "good housekeeping practices", which involve keeping a clean, orderly construction site.

Table 7-1 lists the non-stormwater management BMPs. It is important to note that all these BMPs have been approved by Caltrans for statewide use and they must be implemented depending on the conditions/applicability of deployment described as part of the BMP.

Table 7-1. Non-Stormwater Management BMPs		
ID	BMP Name	
NS-1	Water Conservation Practices	
NS-2	Dewatering Operations	
NS-3	Paving, Sealing, Sawcutting and Grinding Operations	
NS-4	Temporary Stream Crossing	
NS-5	Clear Water Diversion	
NS-6	Illegal Connection and Illicit Discharge Detection and Reporting	
NS-7	Potable Water/Irrigation	
NS-8	Vehicle and Equipment Cleaning	
NS-9	Vehicle and Equipment Fueling	
NS-10	Vehicle and Equipment Maintenance	
NS-11	Pile Driving Operations	
NS-12	Concrete Curing	
NS-13	Material and Equipment Use Over Water	
NS-14	Concrete Finishing	
NS-15	Structure Demolition/Removal Over or Adjacent to Water	

The remainder of this Section describe the working details for each of the non-stormwater management BMPs.



Water Conservation Practices







Standard Symbol



Definition and Purpose

Water conservation practices are construction methods that minimize the use of water onsite or use water in a manner that avoids causing runoff, erosion and/or the discharge of pollutants to the storm drain system or receiving waters. Proper utilization of this BMP reduces or prevents non-stormwater discharges.

Appropriate Applications

Water conservation practices are implemented on all construction sites wherever water is used.

Limitations

If not implemented correctly, discharges may trigger reporting and monitoring requirements and delay construction work.

Standards and Specifications

Keep water equipment in good working condition.

Ensure tracking controls are implemented in, near and around water truck filling areas.

Repair water leaks promptly.

Authorization is required for activities that could potentially discharge water into a storm drain system or receiving waters.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7

Water Conservation Practices NS-1



Water Conservation Practices

NS-1

Avoid using water to clean construction areas. Do not wash paved areas with water. Paved areas and roadways should be swept and vacuumed in accordance with SC-7 "Street Sweeping."

Apply water for dust control in accordance with Standard Specifications Section 10-4 Water Usage and BMP WE-1, "Wind Erosion Control."

Direct construction water runoff to areas where it can infiltrate into the ground or be collected and reused.

Manage run-on to minimize contact with job site.

Retain water spilled while filling water trucks within the designated water truck filling areas. Prevent tracking from water trucks and other equipment.

Report discharges to the RE and the WPC Manager immediately.

Maintenance and Inspection

Inspect water equipment areas at least weekly, prior to a forecasted rain event, daily during extended rain events and post-storm events.

Inspect non-stormwater BMPs daily when non-stormwater operations are ongoing.

Repair water equipment as needed.

SWPPP or WPCP

Water Conservation Practices must be discussed in Section 500.3.5 of the SWPPP or Section 30.3.1 of the WPCP.



Section 7

Water Conservation Practices NS-1



Dewatering Operations



Definition and Purpose

Dewatering Operations are practices that manage the discharge of pollutants when non-stormwater and accumulated precipitation (stormwater) must be removed from a work location so that construction work may be accomplished.

Appropriate Applications

These practices are implemented for the collection and discharge of non-stormwater and stormwater (accumulated rain water) from excavations or temporary containment facilities. Non-stormwater includes, but is not limited to, groundwater, dewatering of piles, water from cofferdams, water diversions, and water used during construction activities that must be removed from a work area.

Practices identified in this section are also appropriate for implementation when managing the removal of accumulated precipitation (stormwater) from depressed areas at a construction site.

Stormwater mixed with non-stormwater should be managed as non-stormwater.

Limitations

Dewatering operations for non-stormwater will require, and must comply with, applicable local permits, project-specific permits, and regulations.

Site conditions will dictate design and use of dewatering operations.

Avoid dewatering discharges where possible by infiltrating, reusing the water for dust control, etc.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017



Section 7

Dewatering Operations NS-2

Standards and Specifications

General Requirements

Dewatering shall be conducted in accordance with the Caltrans Field Guide to Construction Site Dewatering Manual and Standard Specification Section 13-4.03G.

A dewatering and discharge work plan shall be submitted at least 15 days before the start of dewatering activities detailing the location of dewatering and discharge activities, quantity of water, equipment, and discharge point. The dewatering and discharge work plan must conform to Standard Specifications Section 13-4.01C.

Dewatering discharges must not cause erosion, scour, or sedimentation that could impact natural bedding materials.

Discharge the water within the project limits. Dispose of the water if it cannot be discharged within project limits due to site constraints or contamination.

Do not discharge stormwater or non-stormwater that has an odor, discoloration other than sediment, an oily sheen, or foam on the surface. Immediately notify the RE upon discovering any such condition.

The RWQCB may require a separate NPDES permit for a dewatering operation. These permits will have specific testing, monitoring, and discharge requirements.

Discharges must comply with regional and watershed-specific discharge requirements.

Additional permits or permissions from other agencies may be required for dewatering cofferdams or diversions.

Dewatering records shall be kept with the SWPPP or WPCP and maintained for a minimum of 3 years after the construction project is terminated.

The controls discussed in this BMP address sediment only. If the presence of polluted water with hazardous substances is identified in the contract, the contractor shall implement dewatering pollution controls as required by the contract documents. If the quality of water to be removed by dewatering is not identified as polluted in the contract documents, but is later determined by observation or testing to be polluted, the contractor shall notify the RE and comply with Standard Specifications Section 4-1.06, "Differing Site Conditions."

Sediment Treatment

A variety of methods can be used to treat water during dewatering operations from the construction site. The size of particles present in the sediment and/or RWQCB Dewatering Permit or receiving water limitations on sediment are key considerations for selecting sediment treatment option(s); in some cases, the use of multiple devices may be appropriate.

Refer to the Sediment Treatment Options described in Appendix B of the Field Guide to Construction Site Dewatering to determine the optimal method to achieve sediment removal.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7

Dewatering Operations NS-2



NS-2

Refer to the applicable project dewatering and/or stormwater permit for monitoring and sampling forms and requirements.

Maintenance and Inspection

Inspect dewatering operation areas at least weekly, prior to a forecasted rain event, daily during extended rain events and post-storm events.

Accumulated sediment removed during the maintenance of a dewatering device may be disposed of outside the right-of-way in conformance with Standard Specifications Section 14-10 Solid Waste Disposal and Recycling.

Accumulated sediment that is commingled with other pollutants must be disposed of in accordance with all applicable laws and regulations.

The WPC Manager must take immediate action to prevent non-stormwater discharges from being discharged.

SWPPP or WPCP

Dewatering Operations must be discussed in Section 500.4.1 of SWPPP and specific sample collection, collection and parameters in Section 700.2.3.1 if required by a specific RWQCB Dewatering Permit or Section 30.3.1 of the WPCP.



Dewatering Operations NS-2



Non-Stormwater Management & Materials and Waste Management &

Definition and Purpose

Procedures and practices for conducting paving, sealing, sawcutting, and grinding activities to minimize the transport of pollutants to the storm drain system or receiving water body.

Appropriate Applications

These procedures are implemented where operations such as paving, surfacing, resurfacing, grinding, coring, grooving, sealing and sawcutting generate spoils, residue, or process water that may pollute storm water runoff or discharge to the storm drain system or receiving water body.

Limitations

Activities related to paving, sealing, sawcutting, grooving, and grinding operations should be limited when precipitation is forecasted to prevent the triggering for visible and non-visible pollutant monitoring.

Discharges of freshly paved surfaces can raise pH and trigger permit violations.



Caltrans Storm Water Quality Handbooks

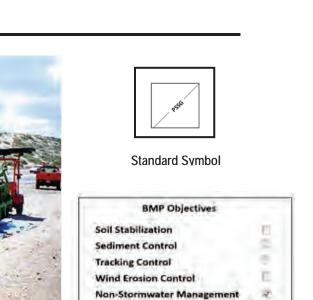
Construction Site BMP Manual May 2017

Paving, Sealing, Sawcutting, and Grinding Operations NS-3



Section 7









Standards and Specifications

General Requirements

Refer to Standard Specifications Section 13-4.03E (7) Paving, Sealing, Sawcutting, Grooving, and Grinding Activities.

Do not allow the following materials to enter storm drain system and receiving waters: cementitious material, asphaltic material, aggregate or screenings, sawcutting, grooving, and grinding residue, pavement chunks, shoulder backing, methacrylate resin, and sandblasting residue. This list is not exhaustive.

Drainage inlets shall be protected and linear sediment barriers (such as silt fences, gravel bag berms, or fiber rolls) shall be used to protect receiving waters during operations related to paving, sealing, sawcutting, or grinding.

Drainage inlets and manholes shall be protected during application of seal coat, tack coat, slurry seal, and/or fog seal. Refer to SE-10, "Temporary Drainage Inlet Protection."

Whenever precipitation is forecasted, limit paving, sawcutting, and grinding to places where runoff can be captured. Grinding or grooving of pavement shall not be conducted when precipitation is forecasted unless runoff can be captured.

Seal coat, tack coat, slurry seal, or fog seal shall not be applied when precipitation is forecasted during the application or curing period.

Slurry shall be removed with a vacuum immediately after it is produced and shall be prevented from running off the pavement or into lanes open to traffic.

The residue from grooving and grinding activities shall be collected with a vacuum attachment on the grinding machine and shall be prevented from flowing across the pavement. See also WM-8, "Concrete Waste Management," and WM-10, "Liquid Waste Management."

Material removed from existing roadways may be stockpiled, if allowed, away from drainage inlets and receiving waters in accordance with BMP WM-3, "Stockpile Management" and Standard Specification 13-4.03C(3) Stockpile Management.

Drip pans or absorbent materials shall be placed under paving equipment when not in use. Refer to WM-4, "Spill Prevention and Control." Equipment shall be cleaned in accordance with NS-8, "Vehicle and Equipment Cleaning."

Do not coat asphalt trucks and equipment with substances that contain soap, foaming agents, or toxic chemicals.

Asphalt Concrete and Concrete Pavement Handling

Prevent sand and gravel from entering streets, storm drains, and receiving waters.



Caltrans Storm Water Quality Handbooks

Section 7

Construction Site BMP Manual May 2017 Paving, Sealing, Sawcutting, and Grinding Operations NS-3





Paving, Sealing, Sawcutting, and Grinding Operations



Substances used to coat asphalt transport trucks, asphalt trucks, and asphalt spreading equipment shall not contain soap, foaming agents, or toxic chemicals.

Asphalt spoils must be recycled or disposed of in accordance with WM-5, "Solid Waste Management," and/or WM-6, "Hazardous Waste Management."

AC and PCC grindings, pieces, or chunks approved by the RE for reuse in embankments or shoulder backing shall not be at risk of entering storm drain systems or receiving waters.

Temporarily protect inlets and receiving waters until the structure is stabilized or permanent controls are in place.

The reuse of AC or PCC grindings, pieces, or chunks as road base must be placed at least five feet above the seasonal high groundwater elevation with the approval of the RE. Shoulder backing containing Recycled Asphalt Pavement (RAP) shall not be placed within 100 feet measured horizontally from a culvert, watercourse, or bridge and must comply with the 2016 SWMP.

During chip seal application and sweeping operations, petroleum or petroleum covered aggregate must not be allowed to enter storm drains or receiving waters. Temporarily protect inlets and receiving waters until stabilized.

Clean asphalt-coated equipment off-site whenever possible. When cleaning dry, hardened asphalt from equipment, manage hardened asphalt debris in accordance with WM-5, "Solid Waste Management," and/or WM-6, "Hazardous Waste Management," and NS-8 "Vehicle and Equipment Cleaning" whichever is applicable.

Allow aggregate rinse to settle. Then, either allow rinse water to dry in a temporary pit as described in WM-8, "Concrete Waste Management," or dispose in accordance with WM-5, "Solid Waste Management."

Thermoplastic Striping and Pavement Markers

Contractor shall not pre-heat, transfer, or load thermoplastic within 50 feet of drainage inlets or receiving waters.

Do not unload, transfer, or load bituminous material for pavement markers within 50 feet of drainage inlets or receiving waters.

All thermoplastic striper and pre-heater equipment shutoff valves shall be inspected to ensure that they are working properly to prevent thermoplastic from leaking.

The pre-heater shall be filled carefully to prevent splashing or spilling of hot thermoplastic. Leave six inches of space at the top of the pre-heater container when filling thermoplastic to allow room for material to move when the vehicle is deadheaded.



Caltrans Storm Water Quality Handbooks

Paving, Sealing, Sawcutting, and Grinding Operations NS-3

Section 7



Paving, Sealing, Sawcutting, and Grinding Operations

Melting tanks shall be loaded with care, a minimum of six inches of freeboard in case of splashing when vehicle is deadheaded. When servicing or filling melting tanks, ensure all pressure is released before removing lids to avoid spills.

Immediately remove drips, overspray, improper markings, paint, and thermoplastic tracked by traffic with an authorized method.

Collect and dispose of bituminous material from the roadway after removal of markers in accordance with WM-5, "Solid Waste Management."

Clean truck beds daily of loose debris and melted thermoplastic. When possible, recycle thermoplastic material. Thermoplastic waste shall be disposed of in accordance with BMP WM-5, "Solid Waste Management" and/or WM-6, "Hazardous Waste Management, as applicable.

Maintenance and Inspection

Inspect and maintain machinery and BMPs regularly to minimize leaks and drips.

Ensure that employees and subcontractors are implementing appropriate measures during paving operations.

If project operations trigger the IGP (industrial operations located within project limits regardless of whether the facility is within or outside Caltrans' right-of-way and outside Caltrans' right-of-way but within project limits), ensure that any run-on or run-off from IGP activities does not have potential to create pollution onto Caltrans right-of-way. Refer to 2016 SWMP Section 7.2 for additional guidance.

SWPPP or WPCP

Paving, Sealing, Sawcutting and Grinding Operations must be discussed in Section 500.4 of the SWPPP or Section 30.3.1 of the WPCP.



Construction Site BMP Manual

May 2017

Paving, Sealing, Sawcutting, and Grinding Operations NS-3



Temporary Stream Crossing

101

2



Definition and Purpose

A temporary stream crossing is a structure placed across a stream or water body that allows vehicles to cross during construction and minimize, reduce, or manage erosion and downstream sedimentation caused by the vehicles.

Appropriate Applications

Where appropriate regulatory permits have been secured and requirements strictly followed.

Where construction equipment or vehicles need to frequently cross a waterway.

When alternate access routes impose significant constraints.

When crossing perennial streams or waterways causes significant erosion.

Where construction activities will not last longer than one year.

Limitations

Typically, stream crossings require regulatory permits such as RWQCB 401 Certification, U.S. Army Corps of Engineers 404 permit and approval by California Department of Fish and Wildlife.

If numerical-based water quality standards are mentioned in any of these regulatory permits, monitoring and water quality sampling may be required and must comply with Standard Specification 13-1.01C (4) Water Quality Monitoring or the contract special provisions. If monitoring related to these numerical-based water quality standards is not addressed in the contract documents, contact the RE.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Section 7 Temporary Stream Crossing NS-4



Temporary Stream Crossing

Ensure that project specific requirements from regulatory permits for the installation, removal or restoration of creek banks are fully implemented.

Will usually disturb the waterway during installation and removal.

Installation may require dewatering or temporary diversion of the stream. See NS-2, "Dewatering Operations" and NS-5, "Clear Water Diversion."

May become a constriction in the waterway, which can obstruct flood flow and cause flow backups or washouts. If improperly designed, flow backups can increase the pollutant load through washouts and scouring.

Use of natural or other gravel in the stream for construction of Cellular Confinement System (CCS) ford crossing will be contingent upon approval by fisheries agencies.

Ford crossings may degrade water quality due to contact with vehicles and equipment.

CCS should not be used in excessively high or fast flows.

Upon completion of construction activities, CCS blocks must be removed from stream.

Standards and Specifications

General Requirements

Location of the temporary stream crossing shall address:

Site selection where erosion potential is low.

Areas where the side slopes from highway runoff will not spill into the side slopes of the crossing.

The following types of temporary stream crossings shall be considered:

- Culverts Used on perennial and intermittent streams.
- Fords Appropriate during the dry season in arid areas. Used on dry washes and ephemeral streams, and low flow perennial streams. CCS, a type of ford crossing is also appropriate for use in streams.
- Bridges Appropriate for streams with high flow velocities, steep gradients and/or where temporary
 restrictions in the channel are not allowed.

Design and installation requires knowledge of stream flows and soil strength. Designs shall be prepared under direction of, and approved by, a registered civil and/or structural engineer. Both hydraulic and construction loading requirements shall be considered with the following:

- Comply with the requirements for culvert and bridge crossings, as contained in the Caltrans Highway Design Manual, particularly if the temporary stream crossing will remain during high flow periods.
- Provide stability in the crossing and adjacent areas to withstand the design flow. The design flow and safety factor shall be selected based on careful evaluation of the risks due to over topping, flow backups, or washout.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Temporary Stream Crossing NS-4



Section 7



 Avoid using oil, AC or other potentially hazardous waste materials for the temporary traveled surface over the stream crossing.

Construction Considerations

Stabilize construction roadways, adjacent work area and stream bed against erosion.

Construct during dry periods to minimize stream disturbance and reduce costs.

Construct at or near the natural elevation of the stream bed to prevent potential flooding upstream of the crossing.

Install temporary sediment control BMPs in accordance with sediment control BMPs presented in Section 4 to minimize embankment scour due to f flow conditions.

Vehicles and equipment shall not be driven, operated, fueled, cleaned, maintained, or stored in the wet or dry portions of a water body where wetland vegetation, riparian vegetation, or aquatic organisms may be destroyed, except as authorized by the construction project regulatory permits, as necessary to complete the work.

Temporary water body crossings and encroachments shall be constructed to minimize scour. Cobbles used for temporary water body crossings or encroachments shall be clean, rounded river cobble.

The exterior of vehicles and equipment that will encroach on the water body within the project shall be maintained free of grease, oil, fuel, and residues.

Disturbance or removal of vegetation shall not exceed the minimum necessary to complete operations. Precautions shall be taken to avoid damage to vegetation. Disturbed vegetation shall be replaced with the appropriate soil stabilization measures. Appropriate use of ESA fencing should be conducted and maintain in accordance with SS-2 "Preservation of Existing Vegetation."

Riparian vegetation, when removed pursuant to the provisions of the work, shall be cut off no lower than ground level to promote rapid re-growth. Access roads and work areas built over riparian vegetation shall be covered by a sufficient layer of clean river run cobble to prevent damage to the underlying soil and root structure. The cobble shall be removed upon completion of project activities.

Any temporary artificial obstruction placed within flowing water shall only be built from material, such as clean gravel, that will cause little or no siltation.

Drip pans shall be placed under all vehicles and equipment placed on docks, barges, or other structures over water bodies when the vehicle or equipment is planned to be idle for more than one hour.

Specific Considerations

Culverts are relatively easy to construct and able to support heavy equipment loads.

Fords are the least expensive of the crossings, with maximum load limits.

Temporary fords are not appropriate if construction will continue through a period of high flows if thunderstorms are likely, or if the stream is perennial.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7

Temporary Stream Crossing NS-4





Temporary Stream Crossing

CCS crossing structures consist of clean, washed gravel and cellular confinement system blocks. CCS are appropriate for streams that would benefit from an influx of gravel; for example, salmonid streams, streams or rivers below reservoirs, and urban, channelized streams. Many urban stream systems are gravel-deprived due to human influences, such as dams, gravel mines, and concrete channels.

CCS allow designers to use either angular or naturally-occurring, rounded gravel, because the cells provide the necessary structure and stability. In fact, natural gravel is optimal for this technique, because of the habitat improvement it will provide after removal of the CCS.

A gravel depth of 6 to 12 inches for a CCS structure is sufficient to support most construction equipment.

An advantage of a CCS crossing structure is that relatively little rock or gravel is needed, because the CCS provides the stability.

Bridges are generally more expensive to design and construct, but provide the least disturbance of the stream bed and constriction of the waterway flows.

Maintenance and Inspection

Periodic removal of debris behind fords, in culverts, and under bridges.

Replacement of lost protective aggregate from inlets and outlets of culverts.

Removal of temporary crossing promptly when it is no longer needed.

Inspection shall, at a minimum, occur weekly and after each significant rainfall, and include:

- Checking for blockage in the channel, debris buildup in culverts or behind fords, and under bridges.
- Checking for erosion of abutments, channel scour, riprap displacement, or piping in the soil.
- Checking for structural weakening of the temporary crossing, such as cracks, and undermining of foundations and abutments.

The WPC Manager or QSP must ensure that stream crossings do not create potential for sediment laden discharge or other materials onto the waterbody.

SWPPP or WPCP

Temporary Stream Crossing must be discussed in Section 500.4 of the SWPPP or Section 30.3 of the WPCP.



Temporary Stream Crossing NS-4

Section 7



Clear Water Diversion

NS-5



Definition and Purpose

Clear water diversion consists of a system of structures and measures that intercept surface water runoff upstream of a project site, transport it around the work area, and discharge it downstream with minimal water quality degradation from either the project construction operations or the construction of the diversion. Clear water diversions are used to reduce sediment pollution from construction work occurring in or adjacent to water.

Isolation techniques are clear water diversion methods that isolate near shore work from a waterbody. Structures commonly used as part of this system include diversion ditches, berms, dikes, slope drains, rock, gravel bags, wood, sheet piles, aqua barriers, cofferdams, filter fabric or turbidity curtains, drainage and interceptor swales, pipes, or flumes.

Appropriate Applications

A clear water diversion is typically implemented where appropriate permits have been secured and work must be performed in a live stream or water body. Work in jurisdictional waters typically require the following, at a minimum, Clean Water Act Section 404, Clean Water Act Section 401 (RWQCB Water Quality Certification), and Fish and Game Code Section 1600 permits.

Clear water diversions are appropriate for isolating construction activities occurring within or near a water body such as streambank stabilization, or culvert, bridge, pier or abutment installation. They may also be used in combination with other methods, such as clear water bypasses and/or pumps.

Implement SS-12 "Streambank Stabilization" to minimize impacts to streambanks.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7 Clear Water Diversion NS-5 1 of 12



Where working areas encroach on live streams, barriers adequate to prevent the flow of muddy water into streams should be constructed and maintained between working areas and streams. During construction of the barriers, muddying of streams should be held to a minimum.

Channel diversions are appropriate for small stream where there is adequate right of way to create a temporary channel around a construction work area, and geosynthetics or rock can be used to handle the shear stresses associated with the expected flows.

Berms are appropriate for small perennial, intermittent, or ephemeral streams with temporary culverts or pipe diversions. Berms may also be used to shift flows to one side or the other within a channel.

Gravel bag berms (SC-6 "Gravel Bag Berms") are appropriate for smaller streams where the hydraulic forces and water pressure can be adequately addressed with the weight of gravel-filled bags and plastic sheeting. This method results in a cofferdam-like isolation from the receiving water.

Cofferdams are appropriate for small streams and lakes to confine flows to one side, create a dry work area, or to berm entire small streams. Typically, this terminology is used in association with structures at Caltrans, though some inflatable cofferdams may be used for smaller applications.

Pumped diversions are suitable for short-term projects in intermittent and low flow streams. Excavation of a temporary bypass channel, or passing the flow through a pipe (called a "flume") is appropriate for the diversion of streams less than 20 ft wide, with flow rates less than 100 cfs.

Piped diversions are appropriate for short-term projects with little base flow.

Water quality monitoring must typically be performed before and during in-water work, including the installation, operation, and removal of clear water diversions. Follow the requirements outlined in the Standard Specification or special provisions.

Limitations

Diversion/encroachment activities will usually disturb the waterway during installation and removal of diversion structures.

Specific permit requirements or mitigation measures, such as those required by the U.S. Army Corps of Engineers, California Department of Fish and Wildlife, Federal Emergency Management Agency (FEMA), Regional Water Quality Control Board (RWQCB), etc. may be included in contract documents because of clear water diversion/encroachment activities.

Diversion/encroachment activities may constrict the waterway, obstruct flood flows and cause flooding or washouts. Diversion structures should not be installed without identifying potential impacts to the stream channel.

Diversion or isolation activities should not completely dam streamflow.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Section 7 Clear Water Diversion NS-5



NS-5

The designer should consider the size, depth of water, and risks for temporary stream diversion. Use this BMP and specification for small streams and low risk projects.

Coffer dams and more elaborate systems should be designed by engineering services staff with the appropriate structural background or by the contractor. The design decision and design parameters should be coordinated by the PDT, so that all permitting and highway design requirements are met.

Dewatering and removal may require additional sediment control or water treatment (See NS-2, "Dewatering Operations").

Heavy equipment driven in wet portions of a water body to accomplish work should be completely clean of petroleum residue, and water levels should be below the gearboxes of the equipment in use, or lubricants and fuels are sealed such that inundation by water should not result in leaks.

Mechanical equipment operated in the water shall not be submerged to a point above any axle of said mechanical equipment.

Excavation equipment buckets may reach out into the water to remove or place fill materials. Only the bucket of the crane/ excavator/backhoe may operate in a water body. The main body of the crane/excavator/backhoe shall not enter the water body, except as necessary to cross the stream to access the work site.

Stationary equipment such as motors and pumps, located within or adjacent to a water body, shall be positioned over drip pans.

Equipment shall not be parked below the high-water mark unless allowed by a regulatory agency permit or approval.

Drip pans shall be placed under all vehicles and equipment placed on docks, barges, or other structures over water bodies when the vehicle or equipment is planned to be idle for more than one hour.

Where possible, avoid or minimize diversion/encroachment impacts by scheduling construction during periods of low flow or when the stream is dry. See also the project special provisions for scheduling requirements.

Scheduling shall also consider seasonal releases of water from dams, fish migration and spawning seasons, and water demands due to crop irrigation.

Materials and equipment should be moved from diversion work area prior to forecasted rain events to prevent non-storm water discharges.

Standards and Specifications

General Requirements

Most small stream diversions can be designed by the district and coordinated with the HQ OHSD. In many cases the diversion can be located on the plan sheet referencing the non-standard specification for Temporary Creek Diversion.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7

Clear Water Diversion NS-5



Many projects will have multiple culverts, so it may be appropriate to develop a table of the lump sum costs for each system, this should be provided to the RE to help review the Temporary Creek Diversion System Plan, to help them determine if all needed items are included.

The types of diversion for small to medium sized streams may include:

- Pumped systems
- Temporary culverts
- Inflatable coffer dams (Consult HQ OHSD for specification)

For larger (large rivers, lakes, bays, and ocean areas) temporary creek diversions that have a higher risk to worker safety and a more extensive design is required to address the forces for the depth and flow of the water, the district's structures representative should be consulted for the design (e.g., larger rivers where coffer dams are required). The engineer must consult and follow the Caltrans Engineering Services Shoring Guidance and consult with Construction as the owner of the specification.

- Diversion can be constructed from timber, soil, or steel. But in most cases are designed and constructed with steel sheet piles. Refer to 19-3.03C Cofferdams (sheet piles).
- Guidance: Caltrans Shoring Guide (Engineering Services)
 Dewatering: Field Guide to Construction Site Dewatering, NS-2 "Dewatering Operations," and Section 13-4.03G of the Standard Specifications for use with coffer dams or other large in-water work.
- May need to treat or control seepage water prior to discharge, consult appropriate requirements for treatment design needs.

When any artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall, at all times, be allowed to pass downstream to maintain aquatic life downstream.

Disturbance or removal of vegetation shall not exceed the minimum necessary to complete operations.

Disturbed vegetation shall be replaced with the appropriate soil stabilization measures and in accordance with the project's special provisions.

Riparian vegetation, when removed pursuant to the provisions of the work, shall be cut off no lower than ground level to promote rapid re-growth. Access roads and work areas built over riparian vegetation shall be covered by a sufficient layer of clean river run rock to prevent damage to the underlying soil and root structure. The rock shall be removed upon completion of project activities.

Construct diversion structures with materials free of potential pollutants such as soil, silt, sand, clay, grease, or oil.

Clear water diversions incorporating clean washed gravel may be appropriate for use in salmon spawning streams.

Coordination with a variety of functional units at the Department may be required to implement this BMP.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Section 7 Clear Water Diversion NS-5 4 of 12



Design Considerations

Does the construction of the temporary diversion system cause more environmental damage to the riparian, wetland, or 100-year floodplain area, than to construct the project without the diversion BMP? This is a consideration for all projects, but is usually appropriate for short term construction projects for temporary or ephemeral streams, where scheduling of the project when the stream is dry, may be more effective than the construction of a large diversion system in a sensitive environmental area, where construction equipment could disturb fragile vegetation, roots, sensitive species, soil structure, and root systems.

Stream hydrology considerations include: Stream channel geometry, tributary watershed area, stream bed material, and predicted flow rates during construction. Follow methods in HDM Section 810 for the appropriate methods and rates for sizing the temporary diversion system.

Sizing the temporary diversion. In the past many temporary diversion system guidance documents required mandatory minimum return storms for sizing the systems, for example the 2-year, 5-year, or 10-year, 24-hour return period. This can result in temporary diversion system as large as the drainage system they are replacing and result in large impacts to the stream riparian zone, with large disturbed soil areas. Overly conservative approaches for the hydrology sizing to protect the environment can inadvertently cause other impacts to the environment for its construction. Each project should be sized for the appropriate risks and should be based on regulatory restrictions.

In coordination with District Hydraulics, consider the consequences for diversion exceedance including; public and work safety, environment, legal, regulatory permit requirements, costs, space, and schedule.

Hydrology Sizing Methods

The sizing of clear water diversion systems varies by the time of year, local hydrology, and duration of the diversion. If there is a prescriptive storm size in a permit document, then design to the required event size. A 2-year, 24-hour storm event has been used by many as a default event, but more recent studies have shown that this may oversize the system and cause more disturbance in the sensitive stream zone than is necessary.

Diversion structures must be adequately designed to accommodate fluctuations in water depth or flow volume due to tides, storms, flash floods, etc. Careful analysis of the local hydrology history and risk analysis is required to minimize the diversion impacts.

Temporary Diversions/Encroachments

Construct diversion channels in accordance with SS-9, "Earth Dikes/Drainage Swales, and Ditches."

In high flow velocity areas, stabilize slopes of embankments and diversion ditches using an appropriate liner, in accordance with SS-12 "Streambank Stabilization," and SS-7, "Plastic Covers & Rolled Erosion Control Products," or use rock slope protection, as described in Standard Specifications Section 72 2, "Rock Slope Protection."

Where appropriate, use natural streambed materials such as large cobbles and boulders for temporary embankment/slope protection, or other temporary soil stabilization methods.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7 Clear Water Diversion NS**-5** 5 of 12



Provide for velocity dissipation at transitions in the diversion, such as the point where the stream is diverted to the channel and the point where the diverted stream is returned to its natural channel. See also SS-10, "Outlet Protection/Velocity Dissipation Devices."

Temporary Dry Construction Areas

When dewatering behind temporary structures to create a temporary dry construction area, such as cofferdams, pass pumped water through a sediment settling device, such as a portable tank, settling basin, or Active Treatment System if necessary, before returning water to the water body; see NS-2, "Dewatering Operations" and Standard Specification 13-8 "Temporary Active Treatment System."

If the presence of polluted water or sediment is identified in the contract, the contractor shall implement dewatering pollution controls as required by the contract documents. If the quality of water or sediment to be removed while dewatering is not identified as polluted in the contract documents, but is later determined by observation or testing to be polluted, the contractor shall notify the RE and comply with Standard Specifications Section 4-1.06 "Differing Site Conditions."

Any substance used to assemble or maintain diversion structures, such as form oil, shall be non-toxic and non-hazardous.

Any material used to minimize seepage underneath diversion structures, such as grout, shall be non toxic, non hazardous, and as close to a neutral pH as possible.

Instream Construction Sediment Control

Instream Construction Sediment Control

There are three different options currently available for reducing turbidity while working in a stream or river. The stream can be:

- Isolated from the area in which work is occurring by means of a water barrier.
- The stream can be diverted around the work site through a pipe or temporary channel.
- One can employ construction practices that minimize sediment suspension.
- The highest hazard for sedimentation from instream construction generally occurs when the sediment control structure is being installed and when it is being removed. Generally, the best time to install the stream isolation or diversion structure is when the stream flow is low. Conversely, the optimum time to remove in-stream diversion or isolation structures may be during the rising limb of a storm hydrograph. A probable "worst time" to release high TSS into a stream system with diminishing aquatic habitat might be when the stream flow is very low; summer low flow, for example. During these times, the flow may be low while the biological activity in the stream is very high. On the other hand, the addition of short-term spike in TSS or sediment during a big storm discharge might have a relatively low impact on the aquatic habitat or turbidity because the stream is already turbid, and the stream energy is capable of transporting both suspended solids, and large quantities of bedload through the system.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7 Clear Water Diversion NS-5



NS-5

Techniques to Minimize Total Suspended Solids (TSS)

Padding - Padding laid in the stream below the work site may trap some solids that are deposited in the stream during construction. After work is done, the padding is removed from the stream, and placed on the bank to assist in revegetation.

Clean, washed gravel - Using clean, washed gravel decreases solid suspension, as there are fewer small particles deposited in the stream.

Excavation using a large bucket - Each time a bucket of soil is placed in the stream a portion is suspended. Approximately the same amount is suspended whether a small amount of soil is placed in the stream, or a large amount. Therefore, using a large excavator bucket instead of a small one, will reduce the total amount of soil that washes downstream.

Use of dozer for backfilling - Using a dozer for backfilling instead of a backhoe follows the same principles – the fewer times soil is deposited in the stream, the less soil will be suspended.

Partial dewatering with a pump - Partially dewatering a stream with a pump reduces the amount of water, and thus the amount of water that can suspend sediment.

Washing Fines

Partial Washing fines is an "in-channel" sediment control method, which uses water, either from a water truck or hydrant, to wash any stream fines that were brought to the surface of the channel bed during restoration, back into the interstitial spaces of the gravel and cobbles. This technique is useful in both intermittent or ephemeral stream channels with gravelly to cobbely substrate and may be useful in perennial streams just prior to removing isolation structures.

The purpose of this technique is to reduce or eliminate the discharge of sediment from the channel bottom during the first seasonal flows, or "first flush." Sediment should not be allowed into stream channels; however, occasionally in-channel restoration work will involve moving or otherwise disturbing fines (sand and silt-sized particles) that are already in the stream, usually below bank-full discharge elevation. Subsequent re-watering (resumption of flows) of the channel can result in a plume of turbidity and sedimentation.

This technique washes the fines back into the channel bed. Bedload materials, including gravel cobbles, boulders and those fines, are naturally mobilized during higher storm flows. This technique is intended to delay the discharge until the fines would naturally be mobilized.

This technique should be used when construction work is required in channels. It is especially useful in intermittent or ephemeral streams in which work is performed "in the dry," and which subsequently become re-watered.

Prior to using this technique consider the following:

- The stream must have sufficient gravel and cobble substrate composition.
- The use of this technique requires consideration of time of year and timing of expected stream flows.



Caltrans Storm Water Quality Handbooks Construction Site BMP Manual

Construction Site BMP Manual May 2017 Clear Water Diversion NS-5





NS-5

- The optimum time for the use of this technique is in the fall, prior to winter flows.
- Consultation with, and approval from the Department of Fish and Wildlife and the Regional Water Quality Control Board may be required.

The following items should be considered when preparing project plans and specifications when this technique is used:

- Apply sufficient water to wash fines, but not cause further erosion or runoff.
- Apply water slowly and evenly to prevent runoff and erosion.
- Consult with Department of Fish and Wildlife and the Regional Water Quality Control Board for specific water quality requirements of applied water (e.g., chlorine).

Isolation Techniques

Isolation techniques are methods that isolate near shore work from a waterbody. Techniques include sheet pile enclosures, inflatable cofferdams like Aqua Dam, berms or gravel bag berms (see SC-6, "Gravel Bag Berm") with impermeable membrane or plastic sheeting, gravel bags, cofferdams, and K-rail.

Filter Fabric Isolation Technique

A filter fabric isolation structure is a temporary structure built into a waterway to enclose a construction area and reduce sediment pollution from construction work in or adjacent to water. This structure is composed of filter fabric, gravel-filled bags, and steel t-posts.

Filter fabric may be used for construction activities such as streambank stabilization, or culvert, bridge, pier or abutment installation. It may also be used in combination with other methods, such as clean water bypasses and/or pumps.

This method involves placement of gravel bags or continuous berms to "key-in" the fabric, and subsequently staking the fabric in place.

If spawning gravel (gravel between 1 and 4 inches) is used, all other components of the isolation can be removed from the stream, and the gravel can be spread out and left as salmon spawning habitat if permitted in the project's 404 permit. Whether spawning gravel or other types of gravel are used, only clean washed gravel should be used as infill for the gravel bags or continuous berm.

This is a method that should be used in relatively calm water, and can be used in smaller streams.

Prior to using this technique consider the following:

- Do not use if the installation, maintenance and removal of the structures will disturb sensitive aquatic species of concern.
- Not appropriate for projects where dewatering is necessary.
- Not appropriate to completely dam streamflow.

The following items should be considered when preparing project plans and specifications when this technique is used:



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7

Clear Water Diversion NS-5



- For the filter fabric isolation method, a non-woven or heavy-duty fabric (refer to Standard Specifications Section 96-1.02B) is recommended over standard silt fence. Using rolled geotextiles allows non-standard widths to be used.
- Anchor filter fabric with gravel-filled bags filled with clean, washed gravel. Do not use sand. If a bag should split open, the gravel can be left in the stream if permitted under the project's 404 permit, where it can provide aquatic habitat benefits.
- Another anchor alternative is a continuous berm, made with the Continuous Berm Machine. This is a gravel-filled bag that can be made in very long segments. The length of the berms is usually limited to 20 ft for ease of handling.
- Place the fabric on the bottom of the stream, and place either a bag of clean, washed gravel or a continuous berm over the bottom of the fabric, such that a bag-width of fabric lies on the stream bottom. The bag should be placed on what will be the outside of the isolation area.
- Pull the fabric up, and place a metal t-post immediately behind the fabric, on the inside of the isolation area; attach the fabric to the post with three diagonal nylon ties.
- Continue placing fabric as described above until the entire work area has been isolated, staking the fabric at least every 6 ft.
- During construction, inspect daily during the workweek.
- Schedule additional inspections during storm events.
- Immediately repair any gaps, holes or scour.
- Remove sediment buildup.
- Ensure pipe diversion is properly anchored to prevent shifting or leaking during use.
- Remove BMP upon completion of construction activity. Recycle or re-use if applicable.
- Re-vegetate areas disturbed by BMP removal if needed.

Turbidity Curtain Isolation Technique

A turbidity curtain is a fabric barrier used to isolate the near shore work area. The barriers are intended to confine the suspended sediment. The curtain is a floating barrier, and thus does not prevent water from entering the isolated area; rather, it prevents suspended sediment from getting out.

Turbidity curtains should be used where sediment discharge to a stream is unavoidable. They are used when construction activities adjoin quiescent waters, such as lakes, ponds, lagoons, bays, and slow flowing rivers. The curtains are designed to deflect and contain sediment within a limited area and provide sufficient retention time so that the soil particles will fall out of suspension.

Prior to using this technique consider the following:

- Turbidity curtains should not be used in flowing water; they are best suited for use in quiescent ponds, lakes, lagoons, bays, and very slow-moving rivers.
- Turbidity curtains should not be placed across the entire width of a channel.
- Removing sediment that has been deflected and settled out by the curtain may create a discharge
 problem through the re-suspension of particles and by accidental dumping by the removal equipment.
- Turbidity curtains may require a higher level of maintenance, adjustments, and relocation when deployed in comparison to structural isolation methods. However, turbidity curtains consist of



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Clear Water Diversion NS-5

9 of 12



flexible materials and may be repositioned and reconfigured as the limits of construction activity change.

The following items should be considered when preparing project plans and specifications when this technique is used:

- Turbidity curtains should be oriented parallel to the direction of flow wherever possible to avoid exerting excessive pressure on the fabric.
- The curtain should extend the entire depth of the watercourse in calm-water situations.
- In wave conditions, the curtain should extend to within 1 ft of the bottom of the watercourse, such that the curtain does not stir up sediment by hitting the bottom repeatedly. If it is desirable for the curtain to reach the bottom in an active-water situation, a pervious filter fabric may be used for the bottom 1 ft.
- The top of the curtain should consist of flexible flotation buoys, and the bottom shall be held down by a load line incorporated into the curtain fabric. The fabric shall be a brightly colored impervious mesh.
- The curtain shall be held in place by anchors placed at least every 100 ft, or as recommended by the manufacturer based on site-specific conditions, such as flow rate, wind speeds, currents, tidal influence, and wave action.
- First place the anchors, then tow the fabric out in a furled condition, and connect to the anchors. The anchors should be connected to the flotation devices, and not to the bottom of the curtain. Once in place, cut the furling lines, and allow the bottom of the curtain to sink. A second set of anchors may be required in tidally-influenced waters to secure the curtain against both the flood and ebb tides.
- Sediment that has been deflected and settled out by the curtain may be removed if so directed by the on-site inspector or the RE. Consideration must be given to the probable outcome of the removal procedure. It must be asked if it will create more of a sediment problem through re-suspension of the particles or by accidental dumping of material during removal. It is recommended that the soil particles trapped by the turbidity curtain only be removed if there has been a significant change in the original contours of the affected area in the watercourse.
- Particles should always be allowed to settle for a minimum of 6 to 12 hours prior to their removal or prior to removal of the turbidity curtain.
- The curtain should be inspected daily for holes or other problems, and any repairs needed should be made promptly.
- Allow sediment to settle for 6 to 12 hours prior to removal of sediment or curtain. This means that after removing sediment, wait an additional 6 to 12 hours before removing the curtain.
- To remove, install furling lines along the curtain, detach from anchors, and tow out of the water. Water quality monitoring is typically required before removing the turbidity curtain to verify that the entrained water, sediment, and other potential contaminants, such as sulfides, would not violate a water quality standard when released.

K-rail River Isolation

This is temporary sediment control, or stream isolation method that uses K-rails to form the sediment deposition area, or to isolate the in-stream or near-bank construction area.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Clear Water Diversion NS-5 10 of 12



Barriers are placed end-to-end in a pre-designed configuration and gravel-filled bags are used at the toe of the barrier and also at their abutting ends to seal and prevent movement of sediment beneath or through the barrier walls.

The K-rail isolation can be used in streams with higher water velocities than many other isolation techniques.

Prior to using this technique consider the following:

• The K-rail method does not allow for full dewatering.

The following items should be considered when preparing project plans and specifications when this technique is used:

- To create a floor for the K-rail, move large rocks and obstructions. Place washed gravel and gravelfilled bags to create a level surface for K-rail to sit.
- Place the bottom two K-rails adjacent to each other, and parallel to the direction of flow; fill the center portion with gravel bags. Then place the third K-rail on top of the bottom two; there should be sufficient gravel bags between the bottom K-rails such that the top one is supported by the gravel. Place plastic sheeting around the K-rails, and secure at the bottom with gravel bags.
- Further support can be added by pinning and cabling the K-rails together. Also, large riprap and boulders can be used to support either side of the K-rail, especially where there is strong current.
- The barrier should be inspected at least once daily, and any damage, movement or other problems should be addressed immediately.
- Sediment should be allowed to settle for at least 6 to 12 hours prior to removal of sediment, and for 6 to 12 hours prior to removal of the barrier.

Stream Diversions

Stream diversions consist of a system of structures and measures that intercept an existing stream upstream of the project and, transports it around the work area, and discharges it downstream. The selection of which stream diversion technique to use depends upon the type of work involved, physical characteristics of the site, and the volume of water flowing through the project.

Pumped diversions are appropriate in areas where de-watering is necessary.

Dam-type diversions may serve as temporary access to the site.

Where work areas require isolation from flows.

Prior to using this technique consider the following:

- Pumped diversions have limited flow capacity.
- Pumped diversion require frequent monitoring of pumps.
- Large flows during storm events can overtop dams.
- Flow diversion and re-direction with small dams involves in-stream disturbance and mobilization of sediment.

The following items should be considered when preparing project plans and specifications when this technique is used:



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7

Clear Water Diversion NS-5



- Installation guidelines will vary based on existing site conditions and type of diversion used.
- Diversions shall be sized to convey design flood flows.
- Pump capacity must be sufficient for design flow; the upper limit is approximately 10 cfs (the capacity of two 8 inch pumps).
- Adequate energy dissipation must be provided at the outlet to minimize erosion.
- Dam materials used to create dams upstream and downstream of diversion should be erosion resistant; materials such as steel plate, sheetpile, sandbags, continuous berms, inflatable water bladders, etc. would be acceptable.
- When constructing a diversion channel, begin excavation of the channel at the proposed downstream end, and work upstream. Once the watercourse to be diverted is reached, and the excavated channel is stable, breach the upstream end, and allow water to flow down the new channel. Once flow has been established in the diversion channel, install the diversion weir in the main channel; this will force all water to be diverted from the main channel.
- Inspect diversion/encroachment structures before and after significant storms, and at least once per week while in service. Inspect daily during the construction.
- Pumped diversions require frequent monitoring of pumps.
- Inspect embankments and diversion channels before and after significant storms, and at least once per week while in service for damage to the linings, accumulating debris, sediment buildup, and adequacy of the slope protection. Remove debris and repair linings and slope protection as required. Repair holes, gaps, or scour.
- Upon completion of work, the diversion or isolation structure should be removed and flow should be re-directed through the new culvert or back into the original stream channel. Recycle or re-use if applicable.

SWPPP or WPCP

Clear Water Diversion must be discussed in Section 500.4 of the SWPPP or Section 30.3 of the WPCP.



Clear Water Diversion NS-5

12 of 12







Definition and Purpose

Procedures and practices designed for construction contractors to recognize illegal connections, illicit discharges or illegally dumped or discharged materials on a construction site and report incidents to the RE.

Appropriate Applications

Illegal connection and Illicit discharge detection and reporting is applicable anytime an illegal connection or illicit discharge is discovered, or illegally dumped material is found on the construction site.

This BMP applies to all construction projects.

Limitations

Illegal connection and Illicit discharge or dumping, for the purposes of this BMP, refer to discharges and dumping caused by parties other than the contractor.

Procedures and practices presented in this BMP are general. Contractor shall use extreme caution, immediately notify the RE when illicit connections or illegal dumping or discharges are discovered, and take no further action unless directed by the RE.

If pre-existing hazardous materials or wastes are known to exist onsite, the contractor's responsibility will be detailed in separate special provisions. Onsite area should be clearly marked and described in the SWPPP or WPCP.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017



Section 7 IC/ID NS-6

Illegal Connection and Illicit Discharge Detection and Reporting



Standards and Specifications

Inspection

Inspect site before beginning the job for evidence of Illegal connections or illicit dumping or discharges.

Illegal Connection and Illicit Discharge Detection and Reporting

Solids Look for debris or trash piles. Solid waste dumping often occurs on roadways with light traffic loads or in areas not easily visible from the traveled way.

Liquids – signs of illegal liquid dumping or discharge can include:

- Visible signs of staining or unusual colors to the pavement or surrounding adjacent soils.
- Pungent odors coming from the drainage systems.
- Discoloration or oily substances in the water or stains and residues detained within ditches, channels or drain boxes.
- Abnormal water flow during the dry weather season.

Urban Areas - Evidence of illegal connections or illicit discharges is typically detected at storm drain outfall locations or at manholes. Signs of an illegal connection or illicit discharge can include:

- Abnormal water flow during the dry weather season.
- Unusual flows in subdrain systems used for dewatering.
- Pungent odors coming from the drainage systems.
- Discoloration or oily substances in the water or stains and residues detained within ditches, channels or drain boxes.
- Excessive sediment deposits, particularly adjacent to or near active off-site construction projects.

Rural Areas - Illegal connections or illicit discharges involving irrigation drainage ditches are detected by visual inspections. Signs of an illicit discharge can include:

- Abnormal water flow during the dry weather season.
- Non-standard drainage junction structures.
- Broken concrete or other disturbances at or near junction structures.

Reporting

Notify the RE of any illegal connections and illicit dumping or discharge incidents at the time of discovery. Do not take further action unless ordered.

The RE will notify the District Construction Stormwater Coordinator, who should coordinate with the NPDES Coordinator for reporting.





2 of 3

Section 7

IC/ID NS-6

Illegal Connection and Illicit Discharge Detection and Reporting



Inspection, Cleanup, and Removal

Notify the RE of any illegal connections and illegal dumping or illicit discharge incidents at the time of discovery. Do not take further action unless ordered.

The contractor is not responsible for investigation and clean-up of illegal connections or dumping or illicit discharges not generated by the contractor. Caltrans may direct the contractor to clean up non-hazardous dumped or discharged material on the construction site. Assume that unlabeled or unidentifiable material is hazardous.

Inspect the entire project site at least weekly to check for illegal connections or illicit discharges.

SWPPP or WPCP

Illegal Connection and Illicit Discharge Detection and Reporting must be discussed in Section 500.4.1 of the SWPPP or Section 30.3 of the WPCP.





Section 7 IC/ID NS-6 3 of 3

Potable Water/Irrigation





Definition and Purpose

Potable Water/Irrigation management consists of practices and procedures to manage the discharge of potential pollutants generated during discharges from irrigation water lines, landscape irrigation, lawn or garden watering, planned and unplanned discharges from potable water sources, water line flushing, and hydrant flushing.

Appropriate Applications

Implement this BMP whenever the above activities or discharges occur at or enter a construction site.

Limitations

None identified.

Standards and Specifications

Inspect irrigated areas within the construction limits for excess watering. Adjust watering times and schedules to ensure that the appropriate amount of water is being used and to minimize runoff. Consider factors such as soil structure, grade, relative compaction, time of year, and type of plant material in determining the proper amounts of water for a specific area.

Take precautions to prevent irrigation water from eroding soil, wetting vehicles and pavement, or otherwise causing sediment, hydrocarbons, and other non-visible pollutants that accumulate on those surfaces to discharge into a storm drain system or receiving waterbody.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7

Potable Water/Irrigation NS-7



Potable Water/Irrigation

When possible, discharges from water line flushing or temporary Active Treatment Systems (see Appendix C "Temporary Active Treatment System) should be reused for landscaping purposes.

Resident Engineer (RE) approval is required prior to commencing any washing activities that could discharge to the storm drain or receiving waterbody.

Where possible, direct water from off-site sources around or through a construction site in a way that minimizes contact with the construction site.

Perform pressure tests on the irrigation system supply lines to test for leaks, which could result in erosion or runoff if breached.

Shut off the water source to broken lines, sprinklers, or valves as soon as possible to prevent excess water flow.

Protect downstream storm water drainage systems and receiving waters from water pumped or bailed from trenches excavated to repair water lines.

Maintenance and Inspection

Repair broken water lines as soon as possible or as directed by the RE.

Inspect irrigated areas regularly for signs of erosion and/or discharge.

SWPPP or WPCP

Potable Water/Irrigation must be discussed in Section 500.4 of the SWPPP and/or Section 30.3 of the WPCP.





Vehicle and Equipment Cleaning





Definition and Purpose

Vehicle and equipment cleaning procedures and practices are used to minimize or eliminate the discharge of pollutants from vehicle and equipment cleaning operations to storm drain systems or to watercourses.

Appropriate Applications

These procedures are applied on all construction sites where vehicle and equipment cleaning is performed.

Limitations

This BMP may be limited or disallowed under regulatory agency permits, particularly near Environmentally Sensitive Areas (ESAs).

Generates non-stormwater that requires management, and, in some cases, the disposal of hazardous waste.

Standards and Specifications

General Requirements

Limit vehicle and equipment cleaning or washing at the job site except for the safety and protection of the equipment and as needed to comply with regulatory agency permits and approvals.

Cleaning of vehicles and equipment with soap, solvents or steam shall not occur on the job site unless the RE has been notified in advance and the resulting wastes are fully contained in accordance with Standard Specifications Section 14-11 or 13-4.03D (5), whichever is applicable. Do not use diesel to clean vehicles and minimize the use of solvents.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7

Vehicle and Equipment Cleaning NS-8



Vehicle and Equipment Cleaning

Vehicle and equipment wash water shall be contained for percolation or evaporative drying away from storm drain inlets or receiving waters and should not be discharged within the highway right-of-way. Apply other appropriate BMPs as applicable.

All vehicles/equipment that regularly enter and leave the construction site must be cleaned off-site.

Resulting wastes and by-products shall not be discharged or buried within the highway right-of-way, and must be captured and recycled or disposed according to the requirements of WM-10, "Liquid Waste Management" or WM-6, "Hazardous Waste Management," depending on the waste characteristics.

Implementation

When vehicle/equipment washing/cleaning must occur onsite, and the operation cannot be located within a structure or building equipped with appropriate disposal facilities, the outside cleaning area shall have the following characteristics, and shall be arranged with the WPC Manager, QSD, or QSP as well as the Construction Storm Water Coordinator:

- Located away from storm drain inlets, drainage facilities, or watercourses.
- Paved with concrete or asphalt and bermed to contain wash waters and to prevent run-on and runoff.
- Configured with a sump to allow collection and disposal of wash water.
- Wash waters shall not be discharged to storm drains or watercourses.
- Used only when necessary.

When cleaning vehicles/equipment with water:

- Use as little water as possible. High pressure sprayers may use less water than a hose, and shall be considered.
- Use positive shutoff valve to minimize water usage.
- Facility wash racks shall discharge to a sanitary sewer, recycle system or other approved discharge system and shall not discharge to the storm drainage system or watercourses.

Maintenance and Inspection

The control measure shall be inspected at least weekly, prior to a forecasted rain event, daily during extended rain events and post-storm events.

Inspect wash area and sump regularly. Remove liquids and sediment as needed or as directed by the RE.

SWPPP or WPCP

Vehicle Equipment Cleaning must be discussed in Section 500.4.2 of the SWPPP or Section 30.3 of the WPCP.



Caltrans Storm Water Quality Handbooks

Section 7

Vehicle and Equipment Cleaning NS-8





Vehicle and Equipment Fueling



Definition and Purpose

Vehicle and equipment fueling procedures and practices are designed to minimize or eliminate the discharge of fuel spills and leaks into storm drain systems or to receiving waters.

Appropriate Applications

These procedures are applied on all construction sites where vehicle and equipment fueling takes place.

Limitations

This BMP may be limited or disallowed under regulatory agency permits, particularly near Environmentally Sensitive Areas (ESAs).

Onsite vehicle and equipment fueling should only be used where it's impractical to send vehicles and equipment off-site for fueling.

Standards and Specifications

When fueling must occur onsite, the contractor shall select and designate an area or areas to be used, subject to approval of the RE.

Dedicated fueling areas shall be protected from stormwater run-on and runoff, and shall be located at least 50 feet from downstream drainage facilities and watercourses. Fueling must be performed on level-grade areas.

Protect fueling areas with berms or dikes to prevent run-on, runoff, and to contain spills.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Section 7

Vehicle and Equipment Fueling NS-9



For long-term projects, consider constructing roofs or using portable tents over maintenance and fueling areas.

Absorbent spill clean-up materials and spill kits shall be available in fueling areas and on fueling trucks and used on small spills instead of hosing down or burying techniques. Affected absorbent material and spill kits should be removed promptly and disposed of properly after use.

Drip pans or absorbent pads shall be readily available during vehicle and equipment fueling.

Vehicle and equipment fueling areas shall not be left unattended during fueling activities.

Nozzles used in vehicle and equipment fueling shall be equipped with an automatic shut-off to control drips.

Use vapor recovery nozzles to help control drips as well as air pollution where required by the Air Quality Management Districts.

Ensure the nozzle is secured upright when not in use.

Fuel tanks shall not be "topped-off."

Federal, state, and local requirements shall be observed for any stationary above ground storage tanks. Refer to WM-1, "Material Delivery and Storage" for specifics as to what needs to be included for BMP protection and documented in the SWPPP or WPCP.

Portable fuel canisters should be kept in a flammable cabinet when not in use.

Maintenance and Inspection

Vehicles and equipment shall be inspected on each day of use for leaks. Leaks shall be repaired immediately or problem vehicles or equipment shall be removed from the project site.

Fueling areas and storage tanks shall be inspected at least weekly, prior to a forecasted rain event, daily during extended rain events and post-storm events.

Immediately cleanup spills and properly dispose of contaminated soil and cleanup materials.

SWPPP or WPCP

Vehicle and Equipment Fueling must be discussed in Section 500.4.2 of the SWPPP or Section 30.3 of the WPCP.



Caltrans Storm Water Quality Handbooks

Vehicle and Equipment Fueling NS-9



Vehicle and Equipment Maintenance



Definition and Purpose

Procedures and practices to minimize or eliminate the discharge of pollutants to the storm drain systems or to receiving waters from vehicle and equipment maintenance activities.

Appropriate Applications

These procedures apply on all construction projects where an onsite uncovered yard area is necessary for storage and maintenance of heavy equipment and vehicles.

Limitations

This BMP may be limited or disallowed under regulatory agency permits, particularly near Environmentally Sensitive Areas (ESAs).

Onsite vehicle and equipment maintenance should only be used where it's impractical to send vehicles and equipment off-site for fueling.

Standards and Specifications

When maintenance must occur onsite, the contractor shall select and designate an area to be used, subject to approval of the RE and implement appropriate controls for the activities to be performed.

Dedicated maintenance areas shall be on level ground and protected from storm water run-on and runoff, and shall be located at least 50 ft from downstream drainage facilities and receiving waters.

Protect maintenance areas with berms or dikes to prevent run-on, runoff, and to contain spills.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7

NS-10

Vehicle and Equipment Maintenance NS-10





For long-term projects, consider constructing roofs or using portable tents over maintenance areas.

Absorbent spill clean-up materials and spill kits shall be available in maintenance areas and used on small spills instead of hosing down or burying techniques. Affected absorbent material and spill kits should be removed promptly and disposed of properly after use.

Drip pans or absorbent pads shall be placed under vehicles and equipment when performing maintenance work that involves fluids. Vehicles and equipment maintenance areas shall not be left unattended during maintenance activities.

Drip pans or plastic sheeting shall be placed under all vehicles and equipment placed on docks, barges, or other structures over water bodies when the vehicle or equipment is planned to be idle for more than one hour.

Properly dispose or recycle used batteries and tires as well as any other vehicle or equipment parts.

Substances used to coat asphalt transport trucks and asphalt-spreading equipment shall be non-toxic.

Properly dispose of used oils, fluids, lubricants, and spill cleanup materials.

Do not dump fuels and lubricants onto the ground.

Do not place used oil in a dumpster or pour into a storm drain or watercourse.

Do not bury used tires.

Repair fluid and oil leaks immediately.

Provide spill containment dikes or secondary containment around stored oil and chemical drums. Refer to WM-1, "Material Delivery and Storage" for details.

Maintenance and Inspection

Vehicles and equipment shall be inspected on each day of use for leaks. Leaks shall be repaired immediately or removed from the project site.

Maintenance areas and storage tanks shall be inspected regularly.

Maintain waste fluid containers in leak proof condition.

Inspect equipment for damaged hoses and leaky gaskets routinely. Repair or replace as needed.

Inspection and Maintenance of these areas must be properly documented and the WPC Manager must ensure no potential for discharges occur from these areas as part of the non-visible monitoring requirements.

SWPPP or WPCP

May 2017

Vehicle and Equipment Maintenance must be discussed in Section 500.4 of the SWPPP or Section 30.3 of the WPCP.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual

Section 7

Vehicle and Equipment Maintenance NS-10



Pile Driving Operations



Definition and Purpose

The construction and retrofit of bridges and retaining walls often include driving piles for foundation support and shoring operations. Driven piles are typically constructed of concrete, steel, or timber. Driven sheet piles are used for shoring and cofferdam construction. Proper control and use of equipment, materials, and waste products from pile driving operations will reduce the discharge of potential pollutants to the storm drain system or receiving waters.

Appropriate Applications

These procedures apply to construction sites near or adjacent to surface waters or groundwater where permanent and temporary pile driving operations (impact and vibratory) take place, including operations using pile shells for construction of cast-in-steel-shell and cast-in-drilled-hole piles.

Limitations

None identified.

Standards and Specifications

Have spill kits and cleanup materials available at all locations of pile driving. Refer to WM-4 "Spill Prevention and Control."

Place drip pans, absorbent pads, or plastic sheeting with absorbent material under vehicles and equipment performing pile driving activities. Refer to NS-9 "Vehicle and Equipment Fueling" and NS-10 "Vehicle and Equipment Maintenance."



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7

Pile Driving Operations NS-11



Pile Driving Operations

NS-11

Protect pile driving equipment, including hammers and other hydraulic attachments, by parking them on plywood and covering it with plastic sheeting when precipitation is forecasted.

When not in use, store pile driving equipment on level ground away from concentrated flows of storm water, drainage courses, and inlets.

Use less hazardous vegetable oil instead of hydraulic fluid, when practicable.

Keep equipment that is in use in streambeds; or on docks, barges, or other structures over water bodies, leak free. The storage or use of equipment in streambeds or other bodies of water shall comply with all applicable regulatory permits. Refer to NS-13, "Material and Equipment Use Over Water."

Implement other BMPs as applicable, such as NS-2 "Dewatering Operations," WM-5 "Solid Waste Management," WM-6 "Hazardous Waste Management," and WM-10 "Liquid Waste Management."

Maintenance and Inspection

Inspect pile driving areas and equipment for leaks and spills daily when they are in operation or within or next to water.

Inspect pile driving areas and equipment for leaks and spills at least weekly, prior to a forecasted rain event, daily during extended rain events and post-storm events.

Inspect equipment routinely and repair equipment as needed (e.g., worn or damaged hoses, fittings, gaskets).

Inspection and Maintenance of these areas must be properly documented and the WPC Manager must ensure no potential for discharges occur from these areas as part of the non-visible monitoring requirements.

SWPPP or WPCP

Pile Driving Operations must be discussed in Section 500.4 and 600.2 of the SWPPP or Section 30 of the WPCP.



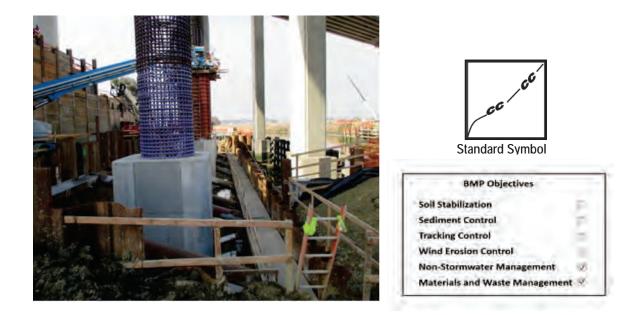
Pile Driving Operations NS-11

2 of 2



Concrete Curing

NS-12



Definition and Purpose

Concrete curing is used in the construction of structures such as bridges, retaining walls, and pump houses. Concrete curing includes the use of both chemical and water methods. Proper procedures to minimize any potential for runoff during concrete curing must take place.

Appropriate Applications

All concrete elements of a structure (e.g., footings, columns, abutments, stems, soffit, deck) are subject to curing requirements.

Limitations

None identified.

Standards and Specifications

Chemical Curing

Avoid over-spray of curing compounds.

Minimize the drift of chemical cure as much as possible by applying the curing compound close to the concrete surface. Apply an amount of compound that covers the surface, but does not allow any runoff of the compound.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7 Concrete Curing NS-12 1 of 2

APPENDIX L-197 ADDENDUM 1 Use proper storage and handling techniques for concrete curing compounds. Refer to WM-1, "Material Delivery and Storage."

Protect drain inlets prior to the application of curing compounds. Refer to SC-10, "Temporary Drainage Inlet Protection."

Implement WM-4, "Spill Prevention and Control.

Water Curing for Bridge Decks, Retaining Walls, and Other Structures

Direct cure water away from inlets and receiving waters to collection areas for removal as approved by the RE and in accordance with all applicable permits.

Collect cure water and transport or dispose of water in accordance with all applicable permits

Utilize wet blankets or a similar method that maintains moisture while minimizing the use and possible discharge of water.

Maintenance and Inspection

Ensure that employees and subcontractors implement appropriate measures for storage, handling, and use of curing compounds.

Inspect any temporary diversion devices, lined channels, or swales for washouts, erosion, runoff or debris. Replace lining and remove debris as necessary.

Inspect cure containers and spraying equipment for leaks. Also, inspect concrete curing areas daily when there are ongoing operations.

The WPC Manager or QSP must ensure no concrete curing activities occur when rain is forecasted that could lead to a discharge.

SWPPP or WPCP

Concrete Curing must be discussed in Section 500.4 of the SWPPP or Section 30.3 of the WPCP.



Section 7 Concrete Curing NS-12



APPENDIX L-199 ADDENDUM 1

Material and Equipment Use Over



Definition and Purpose

Procedures for the proper use, storage, and disposal of materials and equipment on barges, boats, temporary construction pads, or similar locations that minimize or eliminate the discharge of potential pollutants into storm drain inlets or receiving waters.

Appropriate Applications

These procedures shall be implemented for construction materials and wastes (solid and liquid) and any other materials that may be detrimental if released. Applies where materials and equipment are used on barges, boats, docks, and other platforms over or adjacent to a watercourse.

Limitations

Water

Specific requirements may be included in the contract documents and permit documents associated with regulatory agencies such as the Regional Water Quality Control Board (RWQCB), U.S. Army Corps of Engineers, and California Department of Fish and Wildlife.

Standards and Specifications

Measures to prevent the discharge of potential pollutants into storm drain inlets or receiving waters while operating equipment or using materials over water are considered BMPs by the regulatory agencies and should be documented in the SWPPP.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Section 7

Material and Equipment Use Over Water NS-13

1 of 3

781

Material and Equipment Use Over Water

Implement this BMP in accordance with all necessary permits required for construction within or near receiving waters, such as RWQCB, U.S. Army Corps of Engineers, Department of Fish and Wildlife and other local permitting agencies.

Place drip pans and absorbent materials under equipment and vehicles and ensure that an adequate supply of spill cleanup materials is onsite in accordance with a spill response plan, if applicable. Ensure that staff are trained regarding the deployment of the spill response plan.

Drip pans shall be placed under all vehicles and equipment placed on docks, barges, or other structures over water bodies when the vehicle or equipment is expected to be idle for more than one hour.

Install watertight curbs or toe boards to contain spills and prevent materials, tools, and debris from falling off the barge, platform, dock, etc.

Secure all materials to prevent discharges to receiving waters via wind.

Discharges to receiving waters shall be reported to the RE and the WPC Manager immediately upon discovery.

Maintain vehicles and equipment in accordance with NS-10, "Vehicle and Equipment Maintenance." If a leaking line cannot be repaired, remove equipment from over the water and repair immediately.

Collect and contain demolished material in accordance with NS-15, "Structure Demolition/Removal Over or Adjacent to Water."

Refer to WM-1, "Material Delivery and Storage" and WM-4, "Spill Prevention and Control."

Ensure the timely and proper removal of accumulated wastes over water. Refer to WM-5, "Solid Waste Management" and WM-6, "Hazardous Waste Management."

Maintenance and Inspection

Inspect vehicles and equipment for leaks and spills daily when they are in operation, make necessary repairs.

Ensure that employees and subcontractors implement appropriate measures for storage and use of materials and equipment.

Inspect and maintain all associated BMPs and perimeter controls to ensure continuous protection of the watercourse.

Inspect materials and equipment for leaks and spills at least weekly, prior to a forecasted rain event, daily during extended rain events and post-storm events.

Inspect equipment routinely and repair equipment as needed (e.g., worn or damaged hoses, fittings, gaskets).



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7

Material and Equipment Use Over Water NS-13



Material and Equipment Use Over Water

Inspection and Maintenance of these areas must be properly documented and ensure no potential for discharges occur from these areas as part of the non-visible monitoring requirements.

SWPPP or WPCP

Material and Equipment Use Over Water must be discussed in Section 500.4.1 of the SWPPP or Section 30.3.1 of the WPCP.



Construction Site BMP Manual May 2017

Section 7

Material and Equipment Use Over Water NS-13



Concrete Finishing

NS-14



Definition and Purpose

Concrete finishing methods are used for bridge deck rehabilitation, paint removal, curing compound removal, and final surface finish appearances. Methods include sand blasting, shot blasting, grinding, or high-pressure water blasting. Proper procedures minimize the impact that concrete finishing methods may have on runoff.

Appropriate Applications

These procedures apply to all construction locations where concrete finishing operations are performed.

Limitations

Specific permit requirements may be included in the contract documents for certain concrete finishing operations.

Standards and Specifications

General Requirements

Follow containment requirements stated in the project special provisions.

Collect and properly dispose of water and solid waste from high-pressure water blasting operations.

Collect and properly dispose of water from water blasting operations, sand and solid waste from sandblasting operations.

Protect drainage inlets within 50 feet of the sandblasting prior to beginning sandblasting operations. Refer to SC-10, "Temporary Drainage Inlet Protection."



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 7

Concrete Finishing NS-14



Implement SC-7, "Street Sweeping" within the sand blasting and surrounding area.

Minimize the drift of dust and blast material as much as possible by keeping the blasting nozzle close to the surface.

Discharges to waterways shall be reported to the RE by the WPC Manager immediately upon discovery.

Other Considerations

Direct water from blasting operations away from inlets and receiving waters to collection areas for removal (e.g., dewatering) as approved in advance by the RE and in accordance with applicable permits.

When blast residue contains a potentially hazardous waste, refer to WM-6, "Hazardous Waste Management."

Implement WM-8, "Concrete Waste Management" in combination with this BMP.

Maintenance and Inspection

At a minimum, inspect containment structures, if any, for damage or voids prior to use each day and prior to a likely forecasted rain event.

At the end of each work shift, remove and contain the liquid and solid wastes from containment structures, if any, and from the general work area.

Inspect concrete finishing areas at least weekly, prior to a forecasted rain event, daily during extended rain events and post-storm events.

Inspection and Maintenance of these areas must be properly documented and ensure no potential for discharges occur from these areas as part of the non-visible monitoring requirements.

SWPPP or WPCP

Concrete Finishing must be discussed in Section 500.4 of the SWPPP or Section 30.3.1 of the WPCP.



Section 7

Concrete Finishing NS-14



NS-15

Structure Demolition/Removal Over

or Adjacent to Water



Definition and Purpose

Procedures to protect water bodies from debris and wastes associated with structure demolition or removal over or adjacent to receiving waters.

Appropriate Applications

Full bridge demolition and removal projects.

Partial bridge removal (e.g., barrier rail, edge of deck) associated with bridge widening projects.

Projects that involve concrete channel removal.

Any other project with structure removal that could potentially affect water quality.

Limitations

Specific requirements may be included in the contract documents and permit documents associated with regulatory agencies such as the Regional Water Quality Control Board, U.S. Army Corps of Engineers, and California Department of Fish and Wildlife.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Structure Demolition/Removal Over or Adjacent to Water NS-15

1 of 3





Standards and Specifications

General Requirements

A plan summarizing material containment, collection, and handling may be required to be submitted and fully implemented with the SWPPP.

Do not allow demolished material to enter storm drain systems and receiving waters. Use covers and platforms authorized by the RE to collect debris.

Collect and contain all demolished material within the containment system including process water and visible dust produced during demolition and cleaning operations daily. Handle debris according to Standard Specifications Section 13-4.03D.

Implement in combination with NS-13, "Material and Equipment Use Over Water" and WM-04 "Spill Prevention and Control," for handling of materials and equipment.

Routinely sweep and vacuum work area to remove excess dust and debris in accordance with SC-07, "Street Sweeping."

Use inlet protection in accordance with SC-10, "Temporary Drainage Inlet Protection," to protect storm drain inlets.

Refer to NS-5, "Clear Water Diversion" to direct water away from work areas.

Stockpile accumulated debris and waste generated during demolition away from drainage inlets and receiving waters and in accordance with WM-3, "Stockpile Management."

For structures containing hazardous materials (e.g., lead paint or asbestos) refer to WM-6, "Hazardous Waste Management." For demolition work involving soil excavation around lead-painted structures, refer to WM 7, "Contaminated Soil Management."

Discharges to drainage inlets and receiving waters shall be reported to the RE and WPC Manager immediately upon discovery. A written discharge notification must follow.

Keep adequate spill kit material onsite in accordance with a spill response plan, if applicable. Ensure that staff are trained regarding the deployment of the spill response plan.

Ensure safe passage of wildlife, refer to Standard Specifications 83-3 Concrete Barriers.

Other Considerations

May 2017

Use attachments on construction equipment, such as backhoes and debris baskets, or barges to catch debris from demolition operations. Use plastic bibs to prevent hydraulic fuel leaks.

Install perimeter controls and secondary containment to prevent leaks and spills from entering receiving waters. Perimeter controls and secondary containment may include sealed plywood and/or plastic sheeting,

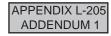


Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual

Section 7

Structure Demolition/Removal Over or Adjacent to Water NS-15



plastic liners and/or tarps, netting, silt fences, drip pans, containment booms and berms, and absorbent material.

Maintenance and Inspection

Contractor must inspect demolition areas and containment systems over or adjacent to receiving waters daily when operations are ongoing.

Any debris-catching devices and containment systems shall be emptied daily. Collected debris shall be removed and stored away from the drainage inlets and receiving waters and protected from run-on and runoff.

Inspect demolition and containment systems over or adjacent to for leaks and spills at least weekly, prior to a forecasted rain event, daily during extended rain events and post-storm events.

Inspection and Maintenance of these areas must be properly documented and ensure no potential for discharges occur from these areas as part of the non-visible monitoring requirements.

SWPPP or WPCP

Structure Demolition/Removal Over or Adjacent to Water must be discussed in Section 500.4.1 of the SWPPP or Section 30 of the WPCP.



May 2017

Structure Demolition/Removal Over or Adjacent to Water NS-15



Section 8

Waste Management and Materials Pollution Control BMPs

8.1 Waste Management and Materials Pollution Control

Waste management and materials pollution control BMPs, like non- stormwater management BMPs, are source control BMPs that prevent pollution by limiting or reducing potential pollutants at their source before they come in contact with stormwater. These BMPs also involve day-to-day operations of the construction site and are under the control of the Contractor, and are additional "good housekeeping practices," which involve keeping a clean, orderly construction site.

Waste Management BMPs

Waste management consists of implementing procedural and structural BMPs for handling, storing, and disposing of wastes generated by a construction project to prevent the release of waste materials into stormwater discharges.

Materials Pollution Control BMPs

Materials pollution control (also called materials handling) consists of implementing procedural and structural BMPs for handling, storing, and using construction materials to prevent the release of those materials into stormwater discharges. The objective is to reduce the opportunity for rainfall to come in contact with these materials. These controls must be implemented for all applicable activities, material usage and site conditions.

Table 8-1 lists the waste management and materials pollution control BMPs.





Table 8-1. Waste Managementand Materials Pollution Control BMPs	
ID	BMP Name
WM-1	Material Delivery and Storage
WM-2	Material Use
WM-3	Stockpile Management
WM-4	Spill Prevention and Control
WM-5	Solid Waste Management
WM-6	Hazardous Waste Management
WM-7	Contaminated Soil Management
WM-8	Concrete Waste Management
WM-9	Sanitary and Septic Waste Management
WM-10	Liquid Waste Management

The remainder of this section shows the working details for each of the waste management and materials pollution control BMPs.



Material Delivery and Storage





Definition and Purpose

Procedures and practices for the proper handling and storage of materials in a manner that minimizes or eliminates the discharge of these materials to the storm drain system or to receiving waters.

Appropriate Applications

These procedures are implemented at all construction sites with delivery and storage of the following:

- Hazardous chemicals such as:
 - o Acids
 - o Lime
 - o Glues
 - o Adhesives
 - o Paints
 - o Solvents
 - Curing compounds
 - Soil stabilizers and binders
- Fertilizers
- Detergents
- Plaster

- Petroleum products such as fuel, oil, and grease
- Asphalt and concrete components
- Pesticides and herbicides
- Other materials that may be detrimental if released to the environment



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017

Section 8

Material Delivery and Storage WM-1



Limitations

Space limitation may preclude indoor storage.

Storage sheds must meet building & fire code requirements and be leak free.

Standards and Specifications

General Requirements

Train employees and subcontractors on the proper material delivery and storage practices.

Temporary storage area shall be located away from vehicular traffic.

Safety Data Sheets (SDS) shall be supplied to the RE for all materials stored. Can be done at any time but at least 5 days prior to material being used or stored onsite.

Must comply with Caltrans Standard Specification 13-4, "Job Site Management", and 14-11, "Hazardous Waste and Contamination."

Material Storage Areas and Practices

Liquids, petroleum products, and substances listed in 40 CFR Parts 110, 117, or 302 shall be stored in approved containers and drums and shall be placed in temporary containment facilities for proper storage.

Each temporary containment facility shall have a permanent cover and side wind protection or be covered during non-working days and whenever a storm event is forecasted.

A temporary containment facility shall provide for a spill containment volume able to contain precipitation from a 24-hour, 25-year storm event, plus the greater of ten percent of the aggregate volume of all containers or 100 percent of the capacity of the largest container within its boundary, whichever is greater.

A temporary containment facility shall be impervious to the materials stored therein for a minimum contact time of 72 hours.

A temporary containment facility shall be maintained free of accumulated rainwater and spills. In the event of spills or leaks, accumulated rainwater and spills shall be collected and placed into drums. These liquids shall be handled as a hazardous waste unless testing determines them to be non-hazardous. All collected liquids or non-hazardous liquids shall be sent to an approved disposal site.

Sufficient separation shall be provided between stored containers to allow for spill cleanup and emergency response access.

Incompatible materials, such as chlorine and ammonia, shall not be stored in the same temporary containment facility.

Materials shall be stored in their original containers and the original product labels shall be maintained in place in a legible condition. Damaged or otherwise illegible labels shall be replaced immediately.



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Material Delivery and Storage WM-1





Material Delivery and Storage

WM-1

Bagged and boxed materials shall be stored on pallets and shall not be allowed to accumulate on the ground. To provide protection from wind and rain, bagged and boxed materials shall be covered during non-working days and prior to rain events.

Stockpiles shall be protected in accordance with WM-3, "Stockpile Management."

Have proper storage instructions posted at all times in an open and conspicuous location and include it as an informal training component of the tailgates and ongoing WPC training.

Do not store hazardous chemicals, drums, or bagged materials directly on the ground. Place these items on a pallet, under cover in secondary containment.

Keep ample supply of appropriate spill clean up material near storage areas.

Also, see WM-6, "Hazardous Waste Management," for storing of hazardous materials.

Material Delivery Practices

Keep an accurate, up-to-date inventory of material delivered and stored on-site.

Employees trained in emergency spill clean-up procedures shall be present when dangerous materials or liquid chemicals are unloaded.

Spill Clean-up

Contain and clean up any spill immediately.

If significant residual materials remain on the ground after construction is complete, properly remove and dispose any hazardous materials or contaminated soil.

See WM-4, "Spill Prevention and Control," for spills of chemicals and/or hazardous materials.



Material Delivery and Storage WM-1



Maintenance and Inspection

Storage areas shall be kept clean, well-organized, and equipped with ample clean-up supplies as appropriate for the materials being stored.

Perimeter controls, containment structures, covers, and liners shall be repaired or replaced as needed to maintain proper function.

Inspect storage areas before, during and after rainfall events, and at least weekly during other times. Collect and place into drums any spills or accumulated rainwater and dispose of properly.

Material Delivery and Storage areas must be shown on the WPCDs and reflect current site conditions.

SWPPP or WPCP

Material delivery and storage must be discussed in Section 500.4.2 of the SWPPP or Section 30.3.2 of the WPCP.



Material Delivery and Storage WM-1

Section 8



Material Use



Definition and Purpose

These are procedures and practices for use of construction materials in a manner that minimizes or eliminates the discharge of these materials to the storm drain system or to receiving waters.

Appropriate Applications

This BMP applies to all construction projects. These procedures apply when the following materials are used or prepared on site:

- Hazardous chemicals such as:
 - o Acids
 - o Lime
 - o Glues
 - o Adhesives
 - o Paints
 - o Solvents
 - o Curing compounds
- Soil stabilizers and binders
- Fertilizers
- Detergents
- Plaster
- Petroleum products such as fuel, oil, and grease
- Asphalt and concrete components
- Pesticides and herbicides
- Other materials that may be detrimental if released to the environment



Caltrans Storm Water Quality Handbooks

Construction Site BMP Manual May 2017 Section 8

Material Use WM-2



Limitations

Safer alternative building and construction products may not be available or suitable in every instance.

Standards and Specifications

Safety Data Sheets (SDS) shall be supplied to the RE for all materials.

Latex paint and paint cans, used brushes, rags, absorbent materials, and drop cloths, when thoroughly dry and are no longer hazardous, may be disposed of with other construction debris.

Do not remove the original product label, it contains important safety and disposal information. Use the entire product before disposing of the container.

Mix paint indoors, or in a containment area. Never clean paintbrushes or rinse paint containers into a street, gutter, storm drain or near a water body. Dispose of any paint thinners, residue and sludge(s), that cannot be recycled, as hazardous waste.

For water-based paint, clean brushes to the extent practical, and rinse to a drain leading to a sanitary sewer where permitted, or into a concrete washout pit. For oil-based paints, clean brushes to the extent practical and filter and reuse thinners and solvents.

Use recycled and less hazardous products when practical. Recycle residual paints, solvents, non-treated lumber, and other materials.

Use materials only where and when needed to complete the construction activity. Use safer alternative materials as much as possible.

Do not over-apply fertilizers and pesticides. Prepare only the amount needed. Strictly follow the recommended usage instructions.

Application of herbicides and pesticides shall be performed by a licensed applicator. Document the location, chemicals applied, applicants name and qualifications.

Contractors are required to complete the "Report of Chemical Spray Forms" when spraying herbicides and pesticides.

Keep an ample supply of spill clean-up material near use areas. Train employees in spill clean-up procedures.

Avoid exposing applied materials to rainfall and runoff unless sufficient time has been allowed for them to dry.



Section 8 Material Use WM**-2** 2 of 3



Maintenance and Inspection

Inspect storage areas before, during and after rainfall events, and at least weekly during other times. Collect and place into drums any spills or accumulated rainwater and dispose of properly.

Spot check employees and subcontractors throughout the job, include appropriate practices as part of the informal tailgate training.

SWPPP or WPCP

Material Use must be discussed in Section 500.4 of the SWPPP or Section 30.3 of the WPCP.



Construction Site BMP Manual May 2017

> APPENDIX L-215 ADDENDUM 1

Section 8

Material Use WM-2

3 of 3

Stockpile Management





Definition and Purpose

Stockpile management procedures and practices are designed to reduce or eliminate air and storm water pollution from stockpiles of soil, and paving materials such as portland cement concrete (PCC) rubble, asphalt concrete (AC), asphalt concrete rubble, aggregate base, aggregate subbase or pre-mixed aggregate, asphalt binder (so called "cold mix" asphalt) and pressure treated wood.

Appropriate Applications

Implemented in all projects that stockpile soil and other materials.

Limitations

Use of plastic cover might be restricted depending on the location of the site and regulatory permits.

Standards and Specifications

Stockpiles must comply with Standard Specification 13-4.03C (3) Stockpile Management.

Protection of stockpiles is a year-round requirement.

Locate stockpiles a minimum of 50 ft. away from concentrated flows of storm water, drainage courses, and inlets.

Utilize run-on and run-off BMPs to ensure stockpile materials are protected and do not have the potential to discharge material.

Implement wind erosion control practices as appropriate on all stockpiled material. For specific information see WE-1, "Wind Erosion Control."





Stockpiles of contaminated soil shall be managed in accordance with WM-7, "Contaminated Soil Management."

Bagged materials should be placed on pallets and under cover.

Protection of Inactive Stockpiles

Inactive stockpiles of the identified materials shall be protected further as follows:

- Soil stockpiles:
 - soil stockpiles shall be covered or protected with soil stabilization measures and a temporary perimeter sediment barrier at all times. If no longer needed, they should be removed and disposed of properly.
- Stockpiles of portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, or aggregate subbase:
 - the stockpiles shall be covered or protected with a temporary perimeter sediment barrier at all times. If no longer needed, they should be removed and disposed of properly.
- Stockpiles of "cold mix":
 - Cold mix stockpiles shall be placed on and covered with plastic or comparable material at all times and surround by a berm.
- Stockpiles/Storage of pressure treated wood with copper, chromium, and arsenic or ammonical, copper, zinc, and arsenate:
 - Treated wood shall be covered with plastic or comparable material and placed on pallets.

Protection of Active Stockpiles

Active stockpiles shall be protected further as follows:

- All stockpiles shall be covered, stabilized, or protected with a temporary linear sediment barrier prior to the onset of precipitation.
- Stockpiles of "cold mix" shall be placed on and covered with plastic or comparable material prior to the onset of precipitation.
- All Stockpiles should be removed from the site and disposed of properly.

Maintenance and Inspection

Inspect Stockpile Management areas before, during and after rainfall events, and at least weekly during other times.

Repair and/or replace perimeter controls and covers to keep Stockpile Management functioning properly.

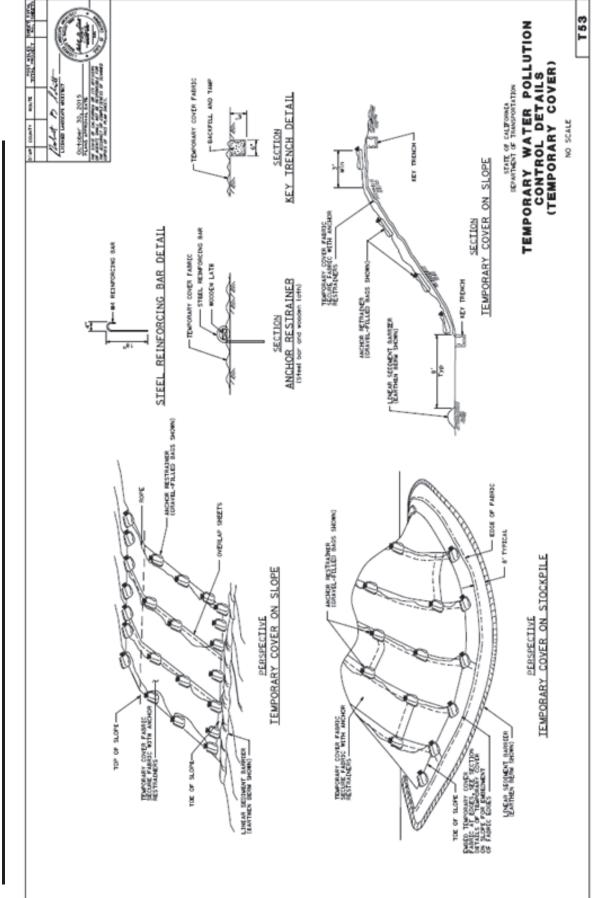
Stockpile Management areas must be shown on the WPCDs and reflect site conditions.

SWPPP or WPCP

Stockpile Management must be discussed in Section 500.4.2 of the SWPPP or Section 30.3.2 of the WPCP.







2015 STANDARD PLAN T53

WM-3

Stockpile Management

800

Caltrans Storm Water Quality Handbooks Construction Site BMP Manual May 2017

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Section 8 Stockpile Management WM-3 3 of 3

> APPENDIX L-218 ADDENDUM 1

Spill Prevention and Control





Soil Stabilization Sediment Control Tracking Control Wind Erosion Control Non-Stormwater Management Materials and Waste Management

Definition and Purpose

These procedures and practices are implemented to prevent and control spills in a manner that minimizes or prevents the discharge of spilled material to the drainage system or watercourses.

Appropriate Applications

This best management practice (BMP) applies to all construction projects. Spill control procedures are implemented anytime chemicals and/or hazardous substances are stored. Substances may include, but are not limited to:

- Soil stabilizers/binders.
- Dust Palliatives.
- Herbicides.
- Growth inhibitors.
- Fertilizers.
- Deicing/anti-icing chemicals.
- Fuels.
- Lubricants.
- Other petroleum distillates.

To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110, 117, and 302, and sanitary and septic wastes shall be contained and cleaned up immediately.





WM-4

Limitations

This BMP only applies to spills caused by the contractor. Other spills or discharges observed or discovered must be reported to the RE.

Procedures and practices presented in this BMP are general. Contractor shall identify appropriate practices for the specific materials used or stored on-site and follow the appropriate Safety Data Sheets (SDS).

Standards and Specifications

Must comply with Caltrans Standard Specifications 13-4.03B Spill Prevention and Control.

To the extent that it doesn't compromise clean-up activities, spills shall be covered and protected from stormwater run-on.

Spills shall not be buried or washed with water. Potable water has chlorine and therefore should not be allowed to be discharged off the project site.

Used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose shall be stored and properly disposed of.

Water used for cleaning and decontamination shall not be allowed to enter storm drains or watercourses and shall be collected and disposed of in accordance with WM-10, "Liquid Waste Management."

Water overflow or minor water spillage shall be contained and shall not be allowed to discharge into drainage facilities or watercourses.

Proper storage, clean-up and spill reporting instruction for hazardous materials stored or used on the project site shall be posted at all times in an open, conspicuous and accessible location.

Waste storage areas shall be kept clean, well-organized and equipped with ample clean-up supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers and liners shall be repaired or replaced as needed to maintain proper function.

Education

Educate employees and subcontractors on what a "significant spill" is for each material they use, and what is the appropriate response for "significant" and "insignificant" spills.

Educate employees and subcontractors on potential dangers to humans and the environment from spills and leaks.

Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).

Establish a continuing education program to indoctrinate new employees.

The WPC Manager shall oversee and enforce proper spill prevention and control measures.

The list of reportable quantities can be found at https://www.bnl.gov/esh/env/compliance/docs/SaraTitleList.pdf.





WM-4

Cleanup and Storage Procedures

Minor Spills:

- Minor spills typically involve small quantities of oil, gasoline, paint, etc., which can be controlled by the first responder at the discovery of the spill.
- Use absorbent materials on small spills rather than hosing down or burying the spill.
- Remove the absorbent materials promptly and dispose of properly.
- The practice commonly followed for a minor spill is:
 - Contain the spread of the spill.
 - Recover spilled materials.
 - Clean the area and/or properly dispose of contaminated materials.

Semi-Significant Spills:

• Semi-significant spills still can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities.

Clean-up spills immediately:

• Notify the WPC Manager immediately. The WPC Manager shall notify the RE and prepare the proper notifications as required.

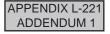
Contain spread of the spill.

- If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials.
- If the spill occurs in dirt areas, immediately contain the spill. Dig up and properly dispose of contaminated soil.
- If the spill occurs during rain, cover spill with tarps to prevent contaminating runoff.

Significant/Hazardous Spills:

- For significant or hazardous spills that cannot be controlled by personnel in the immediate vicinity, the following steps shall be taken:
 - o Notify the RE immediately and follow up with a written report.
 - Notify the local emergency response by dialing 911. In addition to 911, the contractor will notify the proper county officials. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
 - Notify the Governor's Office of Emergency Services Warning Center, (800) 852-7550 or 1-916-845-8911.
 - For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor shall notify the National Response Center at (800) 424-8802.
 - Notification shall first be made by telephone and followed up with a written report. The reporting form is located at http://www.caloes.ca.gov/FireRescueSite/Documents/304%20-%20Written%20Report%20Form.pdf.





- The services of a spills contractor or a Haz-Mat team shall be obtained immediately. Construction personnel shall not attempt to clean up the spill until the appropriate and qualified staff have arrived at the job site.
- Other agencies which may need to be consulted include, but are not limited to, the Fire Department, the Public Works Department, the Coast Guard, the Highway Patrol, the City/County Police Department, Department of Toxic Substances, California Division of Oil and Gas, Cal/OSHA, RWQCB, etc.

Maintenance and Inspection

Verify weekly that spill control clean-up materials are located near material storage, unloading, and use areas.

Update spill prevention and control plans and stock appropriate clean-up materials when changes occur in the types of chemicals used or stored onsite.

Improper clean-up might trigger need for water quality or soil testing. The WPC Manager should be proactive in ensuring controls are in place and adequate to contain and prevent further issues.

SWPPP or WPCP

Spill Prevention and Control must be discussed in Section 500.4 of the SWPPP or Section 30.3.2 of the WPCP.





Solid Waste Management



Definition and Purpose

Solid waste management procedures and practices are designed to minimize or eliminate the discharge of pollutants to the drainage system or to water bodies as a result of the creation, stockpiling, or removal of construction site wastes.

Appropriate Applications

Solid waste management procedures and practices are implemented on all construction projects that generate solid wastes.

Solid wastes include but are not limited to:

- Construction wastes including brick, mortar, timber, steel and metal scraps, sawdust, pipe and electrical cuttings, non-hazardous equipment parts, styrofoam and other materials used to transport and package construction materials.
- Highway planting wastes, including vegetative material, plant containers, and packaging materials.
- Litter, including food containers, beverage cans, coffee cups, paper bags, plastic wrappers, and smoking materials, including litter generated by the public.





Limitations

None identified.

Standards and Specifications

Education

The WPC Manager shall oversee and enforce proper solid waste procedures and practices.

Instruct employees and subcontractors on identification of solid waste and hazardous waste.

Educate employees and subcontractors on solid waste storage and disposal procedures.

Hold regular meetings to discuss and reinforce disposal procedures (incorporate into regular safety meetings and tailgate sessions).

Require that employees and subcontractors follow solid waste handling and storage procedures.

Prohibit littering by employees, subcontractors, and visitors.

Wherever possible, minimize production of solid waste materials.

Must comply with Standard specification 14-10 Solid Waste Disposal and Recycling and 13-4 Job Site Handling.

Collection, Storage, and Disposal

Dumpsters of sufficient size and number shall be provided to contain the solid waste generated by the project and be properly serviced. Must ensure that containers are watertight and have a cover.

Littering on the project site shall be prohibited.

To prevent clogging of the storm drainage system, litter and debris removal from drainage grates, trash racks, and ditch lines shall be a priority.

Trash receptacles shall be provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods.

Construction debris and litter from work areas within the construction limits of the project site shall be collected and placed in watertight dumpsters at least weekly regardless of whether the litter was generated by the Contractor, the public, or others. Collected litter and debris shall not be placed in or next to drain inlets, storm water drainage systems or watercourses.

Full dumpsters shall be removed from the project site and the contents shall be disposed of outside the highway right-of-way in conformance with the provisions in the Standard Specifications Section 14-10 Solid Waste Disposal and Recycling.

Litter stored in collection areas and containers shall be handled and disposed of by trash hauling contractors.

Construction material visible to the public shall be stored or stacked in an orderly manner to the satisfaction of the RE.





Solid Waste Management

WM-5

Stormwater run-on shall be prevented from contacting stored solid waste by berms, dikes, or other temporary diversion structures or through the use of measures to elevate waste from site surfaces.

Solid waste storage areas shall be located at least 50 ft. from drainage facilities and watercourses and shall not be located in areas prone to flooding or ponding.

Except during fair weather, construction and highway planting waste not stored in watertight dumpsters shall be securely covered from wind and rain by covering the waste with tarps or plastic sheeting.

Dumpster washout on the project site is not allowed.

Notify trash hauling contractors that only watertight dumpsters are acceptable for use on-site.

Plan for additional containers during the demolition phase of construction.

Plan for more frequent pickup during the demolition phase of construction.

Construction waste shall be stored in a designated area and shown in the WPCDs.

Segregate potentially hazardous waste from non-hazardous construction site waste.

Keep the site clean of litter debris.

Make sure that toxic liquid wastes (e.g., used oils, solvents, and paints) and chemicals (e.g., acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris.

Dispose of non-hazardous waste in accordance with Standard Specification 14-10 Solid Waste Disposal and Recycling.

For disposal of hazardous waste, see BMP WM-6, "Hazardous Waste Management." Have hazardous waste hauled to an appropriate disposal and/or recycling facility.

Salvage or recycle useful vegetation debris, packaging and/or surplus building materials when practical. For example, trees and shrubs from land clearing can be converted into wood chips, then used as mulch on graded areas. Wood pallets, cardboard boxes, and construction scraps can also be recycled.

Maintenance and Inspection

The WPC Manager shall monitor onsite solid waste storage and disposal procedures.

Specific locations for Solid Waste Storage or Containment must be shown in the WPCDs and must be inspected and maintained regularly.

SWPPP or WPCP

Solid Waste Management must be discussed in Section 500.4 of the SWPPP or Section 30.3.2 of the WPCP.





Hazardous Waste Management



Definition and Purpose

These are procedures and practices to minimize or eliminate the discharge of pollutants from construction site hazardous waste to the storm drain systems or to watercourses.

Appropriate Applications

This best management practice (BMP) applies to all construction projects.

Hazardous waste management practices are implemented on construction projects that generate waste from the use of:

- Petroleum Products
- Asphalt Products
- Concrete Curing Compounds
- Pesticides
- Palliatives
- Acids
- Paints
- Stains
- Solvents
- Septic Wastes
- Wood Preservatives
- Roofing Tar, or
- Any materials deemed a hazardous waste in California, Title 22 Division 4.5, or listed in 40 CFR Parts 110, 117, 261, or 302.





WM-6

Limitations

Nothing in this BMP relieves the Contractor from responsibility for compliance with federal, state, and local laws regarding storage, handling, transportation, and disposal of hazardous wastes.

This BMP does not cover aerially deposited lead (ADL) soils. For ADL soils refer to WM-7, "Contaminated Soil Management," and the project special provisions.

Standards and Specifications

Education

Educate employees and subcontractors on hazardous waste storage and disposal procedures.

Educate employees and subcontractors on potential dangers to humans and the environment from hazardous wastes.

Instruct employees and subcontractors on safety procedures for common construction site hazardous wastes.

Instruct employees and subcontractors in identification of hazardous and solid waste.

Hold regular meetings to discuss and reinforce hazardous waste management procedures (incorporate into regular safety meetings and tailgate sessions).

The WPC Manager must oversee and enforce proper hazardous waste management procedures and practices.

Make sure that hazardous waste is collected, removed, and disposed of only at authorized disposal areas.

Storage Procedures

Wastes shall be stored in sealed containers constructed of a suitable material and shall be labeled as required by Title 22 CCR, Division 4.5 and 49 CFR Parts 172,173, 177 and 178, 179.

All hazardous waste shall be stored, transported, and disposed as required in Title 22 CCR, Division 4.5 and 49 CFR 261-263.

Waste containers shall be stored in temporary containment facilities that shall comply with the following requirements:

- Temporary containment facility shall provide for a spill containment volume able to contain precipitation from a 24-hour, 25-year storm event, plus the greater of ten percent of the aggregate volume of all containers or 100 percent of the capacity of the largest tank within its boundary, whichever is greater.
- Temporary containment facility shall be impervious to the materials stored there for a minimum contact time of 72 hours.
- Temporary containment facilities shall be maintained free of accumulated rainwater and spills. In the event of spills or leaks accumulated rainwater and spills shall be placed into drums after each rainfall. These liquids shall be handled as a hazardous waste unless testing determines them to be non-hazardous. Non-hazardous liquids shall be sent to an approved disposal site.
- Sufficient separation shall be provided between stored containers to allow for spill cleanup and emergency response access.





- Incompatible materials, such as chlorine and ammonia, shall not be stored in the same temporary containment facility.
- Temporary containment facilities shall be covered during non-working days, and prior to rain events. Covered facilities may include use of plastic tarps for small facilities or constructed roofs with overhangs. A storage facility having a solid cover and sides is preferred to a temporary tarp. Storage facilities shall be equipped with adequate ventilation.

Drums shall not be overfilled and wastes shall not be mixed.

Unless watertight, containers of dry waste shall be stored on pallets.

Paint brushes and equipment for water and oil based paints shall be cleaned within a contained area and shall not be allowed to contaminate site soils, watercourses or drainage systems. Waste paints, thinners, solvents, residues, and sludges that cannot be recycled or reused shall be disposed of as hazardous waste. When thoroughly dry, latex paint and paint cans, used brushes, rags, absorbent materials, and drop cloths shall be disposed of as solid waste.

Ensure that adequate hazardous waste storage volume is available.

Ensure that hazardous waste collection containers are conveniently located.

Designate hazardous waste storage areas on site away from storm drains or watercourses and away from moving vehicles and equipment to prevent accidental spills.

Minimize production or generation of hazardous materials and hazardous waste on the job site.

Use containment berms in fueling and maintenance areas and where the potential for spills is high.

Segregate potentially hazardous waste from non-hazardous construction site debris.

Keep liquid or semi-liquid hazardous waste in appropriate containers (closed drums or similar) and under cover.

Clearly label all hazardous waste containers with the waste being stored and the date of accumulation.

Place hazardous waste containers in secondary containment.

Do not allow potentially hazardous waste materials to accumulate on the ground.

Do not mix wastes.

Disposal Procedures

Waste shall be disposed of outside the highway right of way within 90 days of being generated, or as directed by the RE. In no case, shall hazardous waste storage exceed requirements in Title 22 CCR, Section 66262.34.

Waste shall be disposed of by a licensed hazardous waste transporter at an authorized and licensed disposal facility or recycling facility utilizing properly completed Uniform Hazardous Waste Manifest forms.

An ELAP accredited laboratory shall sample waste and analyze it to determine the appropriate disposal facility.





Hazardous Waste Management

WM-6

Make sure that toxic liquid wastes (e.g., used oils, solvents, and paints) and chemicals (e.g., acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for solid waste construction debris.

Properly dispose of rainwater in secondary containment that may have mixed with hazardous waste.

Recycle any useful material such as used oil or water-based paint when practical.

Attention is directed to "Hazardous Material", "Contaminated Material", and "Aerially Deposited Lead" of the contract documents regarding the handling and disposal of hazardous materials.

Maintenance and Inspection

The WPC Manager or QSP shall monitor on-site hazardous waste storage and disposal procedures.

Waste storage areas shall be kept clean, well-organized, and equipped with ample clean up supplies as appropriate for the materials being stored.

Storage areas shall be inspected in conformance with the provisions in the contract documents. At a minimum, storage areas must be inspected before, daily during extended storm event, after every storm event and weekly year-round. Perimeter controls, containment structures, covers, and liners shall be repaired or replaced as needed to maintain proper function.

Hazardous spills shall be cleaned up and reported in conformance with the applicable Safety Data Sheet (SDS) and the instructions posted at the project site.

The National Response Center, at (800) 424-8802, shall be notified of spills of Federal reportable quantities in conformance with the requirements in 40 CFR parts 110, 117, and 302.

Copy of the hazardous waste manifests shall be provided to the RE.

SWPPP or WPCP

Hazardous Waste Management must be discussed in Section 500.4 of the SWPPP or Section 30.3 of the WPCP.





Contaminated Soil Management



Definition and Purpose

These are procedures and practices to minimize or eliminate the discharges of pollutants to the drainage system or to receiving waters from contaminated soil.

Appropriate Applications

Contaminated soil management is implemented on construction projects where soil contamination may have occurred due to spills, illicit discharges, and leaks from underground storage tanks.

It may also apply to highway widening projects in older areas where median and shoulder soils may have been contaminated by aerially deposited lead (ADL).

Limitations

The procedures and practices presented in this best management practice (BMP) are general. The contractor shall identify appropriate practices and procedures consistent with the plans and specifications for the specific contaminants known to exist or discovered on site.

Standards and Specifications

Identifying Contaminated Areas

Contaminated soils are often identified during project planning and development with known locations identified in the plans and specifications. The contractor shall review applicable reports and examine applicable call-outs in the plans and specifications.

The contractor may discover contaminated soils not identified in the plans and specifications by observing:

Spills and leaks, discoloration, odors or abandoned underground tanks or pipes.





Contaminated Soil Management

Spills and leaks caused by the contractor are the contractor's responsibility for removal, testing, and disposal.

If unanticipated asbestos or hazardous substances are discovered, that were not released by the contractor, the contractor shall stop work in that area and immediately notify the RE. The contractor shall not resume work in the area until directed to do so.

Education

Prior to performing any excavation work at the locations containing material classified as hazardous, employees and subcontractors shall complete a safety training program which meets 29 CFR 1910.120 and 8 CCR 5192 covering the potential hazards as identified.

Educate employees and subcontractors in identification of contaminated soil and on contaminated soil handling, containment and disposal procedures.

Hold regular meetings to discuss and reinforce contaminated soil handling, containment and disposal procedures (incorporate into regular safety meetings and tailgates).

Handling Procedures for Material with Aerially Deposited Lead (ADL)

Materials from areas designated as containing (ADL) may, if allowed by the contract special provisions, be excavated, transported, and used in the construction of embankments and/or backfill.

Must comply with Standard specification requirements outlined in Section 14-11 Hazardous Waste and Contamination.

Must comply with the DTSC ADL agreement for specific requirements regarding handling, stockpiling and hauling of material.

Excavation, transportation, and placement operations shall result in no visible dust.

Use caution to prevent spillage of lead containing material during transport.

Monitor the air quality during excavation of soils contaminated with lead.

Handling Procedures for Contaminated Soils

Contaminated soil shall be disposed of properly in compliance with the specifications and all applicable regulations. in Title 22, CCR, Division 4.5 and section 14-11 of the specifications.

If required by the specifications test contaminated soils at a SWRCB ELAP certified laboratory.

If the soil is contaminated, work with the local regulatory agencies to develop options for treatment and/or disposal.

Avoid temporary stockpiling of contaminated soils or hazardous material.

If temporary stockpiling is allowed by the specifications.

Place plastic sheeting or tarps underneath material and cover the stockpile with plastic sheeting or tarps if required by the specifications.

Install a berm around the stockpile to prevent run-on or run-off from leaving the area.





Do not stockpile in or near storm drains or receiving water.

Install berms or run-on controls to prevent stormwater from commingling with contaminated areas.

Contaminated material and hazardous material on exteriors of transport vehicles shall be removed and placed either into the current transport vehicle or the excavation prior to the vehicle leaving the exclusion zone.

Monitor the air quality during excavation operations if required.

Procure all permits and licenses, pay all charges and fees, and give all notices necessary and incident to the due and lawful prosecution of the work, including registration for transporting vehicles carrying the contaminated material and the hazardous material.

Collect water from decontamination procedures and treat and/or dispose of it at an appropriate disposal site.

Collect non-reusable protective equipment, once used by any personnel, and dispose of at an appropriate disposal site.

Install temporary security fence to surround and secure the exclusion zone. Remove fencing when no longer needed.

Excavation, transport, and disposal of contaminated material and hazardous material shall be in accordance with the rules and regulations of the following agencies (the specifications of these agencies supersede the procedures outlined in this BMP):

- United States Department of Transportation (USDOT).
- United States Environmental Protection Agency (USEPA).
- California Environmental Protection Agency (CAL-EPA).
- California Division of Occupation Safety and Health Administration (CAL-OSHA).
- Local regulatory agencies.

Procedures for Underground Storage Tank Removals

If an unknown underground storage tank is discovered, the contractor shall stop work in that area and immediately notify the RE. The contractor shall not resume work in the area until directed to do so.

If tank removal operations are required by the contract, follow the contract requirements for obtaining permits and approval from the federal, state, and local agencies, which have jurisdiction over such work.

If tank removal operations are required by the contract, the underground storage tank, any liquid and/or sludge found within the tank, and all contaminated substances and hazardous substances removed during the tank removal shall be transported to disposal facilities as required by the contract Specifications.

Water Control

Take all necessary precautions and preventive measures to prevent the flow of water, including ground water, from mixing with contaminated or hazardous materials or entering contaminated soil excavations. Such preventative measures may consist of, but are not limited to: berms, cofferdams, grout curtains, freeze walls, and seal course concrete or any combination thereof.





Contaminated Soil Management

If water does enter an excavation and becomes contaminated, such water, when necessary to proceed with the work, shall be dewatered consistent with NS-2, "Dewatering Operations" and the Caltrans Field Guide to Construction Site Dewatering Manual, and in compliance with the specifications.

Maintenance and Inspection

The WPC Manager shall monitor on-site contaminated soil storage and disposal procedures.

Monitor the air quality during excavation operations if required

Manage contaminated soils and hazardous substances/waste under the appropriate federal, state, and local requirements.

Inspect stockpiles, hazardous waste receptacles and storage areas regularly.

SWPPP or WPCP

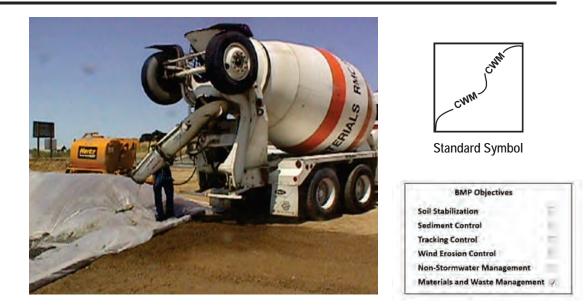
Contaminated Soil Management must be discussed in Section 500.4 of the SWPPP or Section 30.3.2 of the WPCP.





Concrete Waste Management





Definition and Purpose

These are procedures and practices that are designed to minimize or eliminate the discharge of concrete waste materials to the storm drain systems or watercourses.

Appropriate Applications

Concrete waste management procedures and practices are implemented on construction projects where concrete is used as a construction material or where concrete dust and debris result from demolition activities.

Where slurries containing portland cement concrete (PCC) or asphalt concrete (AC) are generated, such as from sawcutting, coring, grinding, grooving, and hydro-concrete demolition.

Where concrete trucks and other concrete-coated equipment are washed on site, when approved by the Resident Engineer (RE). See also NS-8, "Vehicle and Equipment Cleaning."

Where mortar-mixing stations exist.

Limitations

None identified.

Standards and Specifications

Education

Educate employees, subcontractors, and suppliers on the concrete waste management techniques described herein.

The WPC Manager shall oversee and enforce concrete waste management procedures.





Concrete Demolition Wastes

Stockpile concrete demolition wastes in accordance with BMP WM-3, "Stockpile Management."

Disposal of hardened PCC and AC waste shall be in conformance with Standard Specifications Section 14-10 Solid Waste Disposal and Recycling.

Concrete Slurry Waste Management and Disposal

PCC and AC waste shall not be allowed to enter storm drainage systems or watercourses.

A sign shall be installed adjacent to each temporary concrete washout facility to inform concrete equipment operators to utilize the proper facilities.

The WPCM must ensure that onsite concrete working tasks are being monitored, such as saw cutting, coring, grinding and grooving to ensure proper methods are implemented.

Residue from saw cutting, coring and grinding operations shall be picked up by means of a vacuum device. Residue shall not be allowed to flow across the pavement and shall not be left on the surface of the pavement. See also NS-3, "Paving and Grinding Operations."

Vacuumed slurry residue shall be disposed in accordance with WM-5, "Solid Waste Management" and Standard Specifications Section 7-1.13. Slurry residue shall be temporarily stored in a facility as described in "Onsite Temporary Concrete Washout Facility, Concrete Transit Truck Washout Procedures" below), or within an impermeable containment vessel or bin.

Collect and dispose of all residues from grooving and grinding operations in accordance with Standard Specifications Section 14-10 Solid Waste Disposal and Recycling and Standard Specifications 14-11 Hazardous Waste and Contamination.

Onsite Temporary Concrete Washout Facility, Concrete Transit Truck Washout Procedures

Temporary concrete washout facilities shall be located a minimum of 50 ft. from storm drain inlets, open drainage facilities, and watercourses, unless determined infeasible by the RE. Each facility shall be located away from construction traffic or access areas to prevent disturbance or tracking.

A sign shall be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facilities. The sign shall be installed as shown on the plans and in conformance with the provisions in Standard Specifications Section 56 2, Overhead Sign Structure.

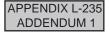
Temporary concrete washout facilities shall be constructed above grade or below grade at the option of the Contractor. Temporary concrete washout facilities shall be constructed and maintained in sufficient quantity and size to contain all liquid and concrete waste generated by washout operations.

Temporary washout facilities shall have a temporary pit or bermed areas of sufficient volume to completely contain all liquid and waste concrete materials generated during washout procedures.

Perform washout of concrete mixers, delivery trucks, and other delivery systems in designated areas only.

Wash concrete only from mixer chutes into approved concrete washout facility. Washout may be collected in an impermeable bag or other impermeable containment devices for disposal.





Pump excess concrete in concrete pump bin back into concrete mixer truck.

Concrete washout from concrete pumper bins can be washed into concrete pumper trucks and discharged into designated washout area or properly disposed offsite.

Once concrete wastes are washed into the designated area and allowed to harden, the concrete shall be broken up, removed, and disposed of in conformance with the provisions in Standard Specifications Section 7-1.13 or 15 3.02.

Temporary Concrete Washout Facility Type "Above Grade"

Temporary concrete washout facility Type "Above Grade" shall be constructed as shown on Page 6 or 7, with a recommended minimum length and minimum width of10 ft, but with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations. The length and width of a facility may be increased, at the Contractor's expense, upon approval from the RE.

Straw bales, wood stakes, and sandbag materials shall conform to the provisions in SC-9, "Straw Bale Barrier."

Plastic lining material shall be a minimum of 10-mil polyethylene sheeting and shall be free of holes, tears or other defects that compromise the impermeability of the material. Liner seams shall be installed in accordance with manufacturers' recommendations.

Portable delineators shall conform to the provisions in Standard Specifications Section 12 3.04, "Portable Delineators." The delineator bases shall be cemented to the pavement in the same manner as provided for cementing pavement markers to pavement. Portable delineators shall be applied only to a clean, dry surface.

Temporary Concrete Washout Facility (Type Below Grade)

Temporary concrete washout facility Type "Below Grade" shall be constructed as shown on page 6, with a recommended minimum length and minimum width of 10 ft. The quantity and volume shall be sufficient to contain all liquid and concrete waste generated by washout operations. The length and width of a facility may be increased, at the Contractor's expense, upon approval of the RE. Lath and flagging shall be commercial type.

Plastic lining material shall be a minimum of 10-mil polyethylene sheeting and shall be free of holes, tears or other defects that compromise the impermeability of the material. Liner seams shall be installed in accordance with manufacturers' recommendations.

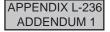
The soil base shall be prepared free of rocks or other debris that may cause tears or holes in the plastic lining material.

Temporary washout facilities shall implement BMPs to prevent run-on and run-off from the facility.

Removal of Temporary Concrete Washout Facilities

When temporary concrete washout facilities are no longer required for the work, as determined by the RE, the hardened concrete shall be removed and disposed of. Disposal of PCC dried residues, slurries or liquid waste shall be disposed of outside the highway right-of-way in conformance with provisions of Standard Specifications Section 7-1-13. Materials used to construct temporary concrete washout facilities shall become





the property of the Contractor, shall be removed from the site of the work, and shall be disposed of outside the highway right-of-way.

Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities shall be backfilled and repaired in conformance with the provisions in Standard Specifications Section 15 1.02, "Preservation of Property."

Maintenance and Inspection

Inspect Concrete Waste Management areas before, during and after rainfall events, and at least weekly during other times.

The WPC Manager shall monitor concrete working tasks, such as sawcutting, coring, grinding and grooving daily to ensure proper methods are employed or as directed by the RE.

Temporary concrete washout facilities shall be maintained to provide adequate holding capacity with a minimum freeboard of 4 inches for above grade facilities and 12 inches for below grade facilities.

Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and returning the facilities to a functional condition.

Hardened concrete materials shall be removed and disposed of in conformance with the provisions in Standard Specifications Section 7-1.13 or 15 3.02.

Existing facilities must be cleaned, or new facilities must be constructed and ready for use once the washout is 75% full.

Temporary concrete washout facilities shall be inspected for damage (i.e. tears in polyethylene liner, missing sandbags, etc.). Damaged facilities shall be repaired.

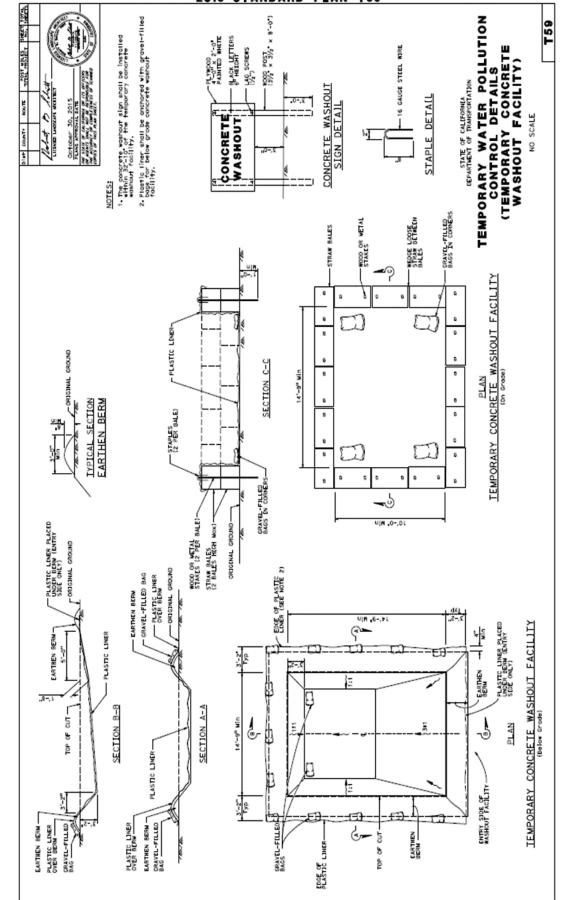
Inspection and Maintenance of these areas must be properly documented and ensure no potential for discharges occur from these areas as part of the non-visible monitoring requirements.

SWPPP or WPCP

Concrete Waste Management must be discussed in Section 500.4.2 of the SWPPP or Section 30.3.2 of the WPCP.







WM-8

Concrete Waste Management

APPENDIX L-238

ADDENDUM 1

Section 8 Concrete Waste Management WM**-8** 5 of 5

2015 STANDARD PLAN T59

Sanitary and Septic Waste Management





Definition and Purpose

Procedures and practices to minimize or eliminate the discharge of construction site sanitary and septic waste materials to the storm drain system or to receiving waters.

Appropriate Applications

Sanitary/septic waste management practices are implemented on all construction sites that use temporary or portable sanitary and septic waste systems.

Limitations

None identified.

Standards and Specifications

Education

Educate employees, subcontractors, and suppliers on sanitary and septic waste storage and disposal procedures.

Educate employees, subcontractors, and suppliers of potential dangers to humans and the environment from sanitary/septic wastes.

Instruct employees, subcontractors, and suppliers in identification of sanitary/septic waste.

Hold regular meetings to discuss and reinforce disposal procedures (incorporate into regular safety meetings and tailgates).

Establish a continuing education program to indoctrinate new employees.







Storage and Disposal Procedures

Temporary sanitary facilities shall be located away from drainage facilities, receiving waters, and from traffic circulation.

When subjected to high winds or risk for overtopping, temporary systems must be properly secured.

Wastewater shall not be discharged or buried within the highway right-of-way.

Sanitary and septic systems that discharge directly into sanitary sewer systems, where permissible, shall comply with the local health agency, city, county, and sewer district requirements.

If using an on-site disposal system, such as a septic system, comply with local health agency requirements.

Properly connect temporary sanitary facilities that discharge to the sanitary sewer system to avoid illicit discharges.

Ensure that sanitary and septic facilities are maintained in good working order by a licensed service.

Use only reputable, licensed sanitary/septic waste haulers.

Maintenance and Inspection

Inspect onsite sanitary and septic waste storage and disposal procedures at least weekly, prior to a forecasted rain event, daily during extended rain events and post-storm events.

Locations for portable Santiary Systems must be shown on the WPCDs and reflect current site conditions.

SWPPP or WPCP

Sanitary and Septic Waste Management must be discussed in Section 500.4.2 of the SWPPP or Section 30.3.2 of the WPCP.





Liquid Waste Management



Definition and Purpose

Procedures and practices to prevent discharge of pollutants to the storm drain system or to receiving waters as a result of the creation, collection, and disposal of non-hazardous liquid wastes.

Appropriate Applications

Liquid waste management is applicable to construction projects that generate any of the following nonhazardous byproducts, residuals, or wastes:

- Drilling slurries and drilling fluids.
- Grease-free and oil-free wastewater and rinse water.
- Dredgings.
- Other non-storm water liquid discharges not permitted by separate permits.

Limitations

Disposal of some liquid wastes may be subject to specific laws and regulations, or to requirements of other permits secured for the construction project (e.g., NPDES permits, Army Corps permits, Coastal Commission permits, etc.).

Does not apply to dewatering operations (see NS-2, "Dewatering Operations"), solid waste management (see WM-5, "Solid Waste Management"), hazardous wastes (see WM-6, "Hazardous Waste Management"), or concrete slurry residue (see WM-8, "Concrete Waste Management").

Does not apply to non-stormwater discharges permitted by any NPDES permit held by the pertinent Caltrans District, unless the discharge is determined by Caltrans to be a source of pollutants. Typical permitted nonstormwater discharges can include: water line flushing; landscape irrigation; diverted stream flows; rising ground waters; uncontaminated pumped ground water; discharges from potable water sources; foundation





drains; irrigation water; springs; water from crawl space pumps; footing drains; lawn watering; flows from riparian habitats and wetlands; and, discharges or flows from emergency firefighting activities. See 2016 SWMP for complete list of permitted non-stormwater discharges.

Standards and Specifications

General Practices

Must comply with Standard Specification 13-4.03 Spill Prevention and Control.

The WPC Manager shall oversee and enforce proper liquid waste management procedures and practices.

Instruct employees and subcontractors how to safely differentiate between non-hazardous liquid waste and potential or known hazardous liquid waste.

Instruct employees, subcontractors, and suppliers that it is unacceptable for any liquid waste to enter any storm drainage structure, waterway, or receiving water.

Educate employees and subcontractors on liquid waste generating activities, and liquid waste storage and disposal procedures.

Hold regular meetings to discuss and reinforce disposal procedures (incorporate into regular safety meetings and tailgates).

Verify which non-stormwater discharges are permitted by the Caltrans NPDES permit; different regions might have different requirements not outlined in this permit. Some listed discharges may be prohibited if Caltrans determines the discharge to be a source of pollutants.

Apply the NS-8, "Vehicle and Equipment Cleaning" BMP for managing wash water and rinse water from vehicle and equipment cleaning operations.

Containing Liquid Wastes

Drilling residue and drilling fluids shall not be allowed to enter storm drains and receiving waters and shall be disposed of outside the highway right of way in conformance with the provisions in Standard Specifications.

If an appropriate location is available, as determined by the RE, drilling residue and drilling fluids that are exempt under California Code of Regulations (CCR) Title 23 §2511(g) may be dried by infiltration and evaporation in a containment facility constructed in conformance with the provisions concerning the Temporary Concrete Washout Facilities detailed in WM-08, "Concrete Waste Management."

Liquid wastes generated as part of an operational procedure, such as water-laden dredged material and drilling mud, shall be contained and not allowed to flow into drainage channels or receiving waters prior to treatment.

Contain liquid wastes in a controlled area, such as a holding pit, sediment basin, roll-off bin, or portable tank.

Containment devices must be structurally sound and leak free.

Containment devices must be of sufficient quantity or volume to completely contain the liquid wastes generated.





Take precautions to avoid spills or accidental releases of contained liquid wastes. Apply the education measures and spill response procedures outlined in WM-4, "Spill Prevention and Control."

Do not locate containment areas or devices where accidental release of the contained liquid can threaten health or safety, or discharge to water bodies, channels, or storm drains.

Capturing Liquid Wastes

Capture all liquid wastes running off a surface, which has the potential to affect the storm drainage system, such as wash water and rinse water from cleaning walls or pavement.

Do not allow liquid wastes to flow or discharge uncontrolled. Use temporary dikes or berms to intercept flows and direct them to a containment area or device for capture.

If the liquid waste is sediment laden, use a sediment trap SC-3, "Sediment Trap/Curb Cutback" for capturing and treating the liquid waste stream, or capture in a containment device and allow sediment to settle.

Disposing of Liquid Wastes

Typical method is to dewater the contained liquid waste, using procedures such as described in NS-2, "Dewatering Operations", and SC-2, "Sediment/Desilting Basin"; and dispose of resulting solids per WM-5, "Solid Waste Management."

Method of disposal for some liquid wastes may be prescribed in Water Quality Reports, NPDES permits, Environmental Impact Reports, 401 Water Quality Certifications or 404 permits, local agency discharge permits, etc., and may be defined elsewhere in the special provisions.

Liquid wastes, such as from dredged material, may require testing and certification whether it is hazardous or not before a disposal method can be determined.

For disposal of hazardous waste, see WM-6, "Hazardous Waste Management."

If necessary, further treat liquid wastes prior to disposal. Treatment may include, though is not limited to, sedimentation, filtration, and chemical neutralization.

Maintenance and Inspection

Inspect onsite sanitary and septic waste storage and disposal procedures at least weekly, prior to a forecasted rain event, daily during extended rain events and post-storm events.

Locations for portable Santiary Systems must be shown on the WPCDs and reflect current site conditions.

SWPPP or WPCP

Sanitary and Septic Waste Management must be discussed in Section 500.4.2 of the SWPPP or Section 30.3.2 of the WPCP.





Appendix A Definition of Terms

Active Areas. An area where soil disturbing activities have occurred at least once within 14 days.

Areas of Construction. All areas subject to land surface disturbance activities related to the project including, but not limited to, project staging areas, immediate access areas and storage areas.

Active Treatment System (ATS). A treatment system that employs chemical coagulation, chemical flocculation, or electrocoagulation to aid in the reduction of turbidity caused by fine suspended sediment.

Air Deposition. Airborne particulates from construction activities.

Best Available Technology Economically Achievable (BAT). As defined by USEPA, BAT is a technologybased standard established by the CWA as the most appropriate means available on a national basis for controlling the direct discharge of toxic and nonconventional pollutants to navigable waters. The BAT effluent limitations guidelines, in general, represent the best existing performance of treatment technologies that are economically achievable within an industrial point source category or subcategory.

Best Conventional Pollutant Control Technology (BCT). As defined by USEPA, BCT is a technology-based standard for the discharge from existing industrial point sources of conventional pollutants including BOD, total suspended sediment (TSS), fecal coliform, pH, oil and grease.

Best Management Practices (BMPs). BMPs are scheduling of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants. BMPs also include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Caltrans Permit. The Caltrans Statewide NPDES Permit for discharges from Caltrans properties, facilities, and activities (Order No. 2012-011-DWQ, NPDES No. CASO00003), issues by the SWRCB.

Construction Activity. Includes clearing, grading, or excavation and Contractor activities that result in soil disturbance.

Construction Site. The area involved in a construction project as a whole.

Construction Site BMPs. Temporary control practices (BMPs) that are required only temporarily to address a short-term stormwater contamination threat as a result of construction activities. For example, silt fences are located near the base of newly graded slopes that have substantial area of exposed soil. Then, during rainfall, the silt fences allow capture of sediment from erosion of the slopes.

Contractor. Party responsible for carrying out the contract per plans and specifications. The Standard Specifications and contract special provisions contain stormwater protection requirements the Contractor must address.

Contractor-Support Facilities. Contractor-support facilities include: Staging areas, storage yards for equipment and materials, mobile operations, batch plants for Portland Cement Concrete and Hot Mix Asphalt, crushing plants for rock and aggregate, other facilities installed for Contractor convenience such as haul roads.

Debris. Litter, rubble, discarded refuse, and remains of destroyed inorganic anthropogenic waste.

Direct Discharge. When surface runoff directly enters the surface water body without first flowing through a municipal separate storm sewer system (MS4).





Discharge. Any release, spill, leak, pump, flow, escape, dumping, or disposal of any liquid, semi-solid or solid substance.

Disturbed Soil Areas (DSAs). Areas of exposed, erodible soil, including stockpiles, that are within the construction limits and that result from construction activities.

Drainage Area. The area of land that drains water, sediment, pollutants, and dissolved materials to a common outlet.

Effluent. Any discharge of water by a discharger either to the receiving water or beyond the property boundary controlled by the discharger.

Environmental Protection Agency (EPA). Agency that issued the regulations to control pollutants in stormwater runoff discharges (The Clean Water Act and NPDES permit requirements).

Erosion. The process, by which soil particles are detached and transported by the actions of wind, water, or gravity.

Erosion Control BMPs. Vegetation, such as grasses and wildflowers, and other materials, such as straw, fiber, stabilizing emulsion, protective blankets, etc., placed to stabilize areas of disturbed soils, reduce loss of soil due to the action of water or wind, and prevent water pollution.

Exempt Construction Activities. Activities exempt from the CGP, including routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of the facility; and emergency construction activities required to protect public health and safety. Local permits may not exempt these activities.

Existing vegetation. Any vegetated area that has not already been cleared and grubbed.

Final Stabilization. All soil disturbing activities at each individual parcel within the site have been completed in a manner consistent with the requirements in this General Permit.

Forecasted Storm Event. A storm that produces or is forecasted to produce at least 0.10 inch of precipitation within a 24-hour period.

General Permit. The Construction General Permit for Storm Water Discharges Associated with Construction Activity (Order No. 2009-000-DWQ, NPDES Permit CAS000002) and amendments (Order No. 2010-0014-DWQ and Order No. 2012-0006-DWQ) issued by the SWRCB.

Good Housekeeping. A common practice related to the storage, use, or cleanup of materials, performed in a manner that minimizes the discharge of pollutants.

Good Housekeeping BMPs. BMPs designed to reduce or eliminate the addition of pollutants to construction site runoff through analysis of pollutant sources, implementation of proper handling/disposal practices, employee education, and other actions. Grading Phase (part of the Grading and Land Development Phase) includes reconfiguring the topography and slope including; alluvium removals; canyon cleanouts; rock undercuts; keyway excavations; land form grading; and stockpiling of select material for capping operations.

Illegal Connection. Discarding or disposal within the Caltrans right-of-way, properties or facilities, either intentionally or unintentionally, of trash or other wastes in non-designated areas that may contribute to stormwater pollution.

Illegal Dumping. An engineered conveyance that is connected to an MS4 without authorization by local, state, or federal statutes, ordinances, codes or regulations.

Illicit Discharge. Any discharge to an MS4 that is prohibited under local, state, or federal statutes, ordinances, codes or regulations. It includes all non-stormwater discharges except conditionally exempt non-stormwater discharges.





Inactive Construction Area. Any area not considered to be an active construction area. Active construction areas become inactive construction areas whenever construction activities are expected to be discontinued for a period of 14 days or longer.

Indirect Discharge. When surface runoff enters the surface water body through an MS4 stormwater conveyance system or unlisted tributary before reaching the surface water.

National Pollutant Discharge Elimination System (NPDES) Permit. A permit issued pursuant to the CWA that requires the discharge of pollutants to waters of the United States from stormwater be controlled.

Non-Storm Water Discharges. Non-Storm Water Discharges are discharges that do not originate from forecasted storm events. They can include, but are not limited to, discharges of process water, air conditioner condensate, non-contact cooling water, vehicle wash water, sanitary wastes, concrete washout water, paint wash water, irrigation water, or pipe testing water.

Non-Visible Pollutants. Pollutants associated with a specific site or activity that can have a negative impact on water quality, but cannot be seen though observation (ex: chlorine). Such pollutants being discharged are not authorized.

pH. Unit universally used to express the intensity of the acid or alkaline condition of a water sample. The pH of natural waters tends to range between 6 and 9, with neutral being 7. Extremes of pH can have deleterious effects on aquatic systems.

Pollution. The man-made or man-induced alteration of the chemical, physical, biological, and radiological integrity of water. An alteration of the quality of the water of the state by waste to a degree, which unreasonably affects either the waters for beneficial uses or facilities that serve these beneficial uses.

Post-Construction BMPs. Structural and non-structural controls which detain, retain, or filter the release of pollutants to receiving waters after final stabilization is attained.

Qualified SWPPP Developer (QSD). Individual who is authorized to develop and revise SWPPPs.

Qualified SWPPP Practitioner (QSP). Individual assigned responsibility for non-storm water and storm water visual observations, sampling and analysis, and responsibility to ensure full compliance with the permit and implementation of all elements of the SWPPP, including the preparation of the annual compliance evaluation and the elimination of all unauthorized discharges.

Receiving Waters. All surface water bodies within the permit area.

Regional Water Quality Control Board (RWQCB). California agencies that implement and enforce CWA Section 402(p) NPDES permit requirements, and are issuers and administrators of these permits as delegated by USEPA. There are nine regional boards working with the SWRCB.

Resident Engineer (RE). The Caltrans representative charged with administration of construction contracts. The RE decides questions regarding acceptability of material furnished and work performed. The RE has "contractual authority" to direct the Contractor and impose sanctions if the Contractor fails to take prompt and appropriate action to correct deficiencies. The following contractual sanctions can be imposed by the RE: (a) withholding payments (or portions of payments), (b) suspending work, (c) bringing in a separate Contractor to complete work items (the Contractor is billed for such costs), (d) assessing liquidated damages including passing along fines for permit violations, (e) initiating cancellation of the construction contract.

Routine Maintenance. Activities intended to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

Runoff Control BMPs. Measures used to divert run-on from off-site and runoff within the site.

Runoff Effect. The effect that a particular soil stabilization product has on the production of stormwater runoff. Runoff from an area protected by a particular product may be compared to the amount of runoff measured for bare soil





Run-on. Discharges that originate off-site and flow onto the property of a separate project site.

Sediment. Solid particulate matter, both mineral and organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water, gravity, or ice and has come to rest on the earth's surface either above or below sea level.

Sedimentation. Process of deposition of suspended matter carried by water, wastewater, or other liquids, by gravity. It is usually accomplished by reducing the velocity of the liquid below the point at which it can transport the suspended material.

Sediment Control BMPs. Practices that trap soil particles after they have been eroded by rain, flowing water, or wind. They include those practices that intercept and slow or detain the flow of storm water to allow sediment to settle and be trapped (e.g., silt fence, sediment basin, fiber rolls, etc.).

Sheet Flow. Flow of water that occurs overland in areas where there are no defined channels where the water spreads out over a large area at a uniform depth.

Soil Amendment. Any material that is added to the soil to change its chemical properties, engineering properties, or erosion resistance that could become mobilized by storm water.

State Water Resources Control Board (SWRCB). California agency that implements and enforces CWA Section 402(p) NPDES permit requirements, is issuer and administrator of these permits as delegated by EPA. Works with the nine Regional Water Quality Control Boards.

Storm Drain System. Streets, gutters, inlets, conduits, natural or artificial drains, channels and watercourses, or other facilities that are owned, operated, maintained and used for the purpose of collecting, storing, transporting, or disposing of stormwater.

Stormwater. Rainfall runoff, snow melt runoff, and surface runoff and drainage. It excludes infiltration and runoff from agricultural land.

Stormwater Pollution Prevention Plan (SWPPP). A plan required by the CGP or the LTCGP that includes site map(s), an identification of construction/contractor activities that could cause pollutants in the stormwater, and a description of measures or practices to control these pollutants. It must be prepared and authorized before construction begins. A SWPPP prepared in accordance with the Special Provisions and the Handbooks will satisfy Standard Specifications Section 13 Water Pollution Control

Temporary Construction Site BMPs. Construction Site BMPs that are required only temporarily to address a short-term stormwater contamination threat. For example, silt fences are located near the base of newly graded slopes that have a substantial area of exposed soil. Then, during rainfall, the silt fences filter and collect sediment from runoff flowing off the slope.

Water Pollution Control Manager (WPC Manager). The person responsible for the implementation of the SWPPPP or WPCP, whichever is applicable for the project. The WPC Manager must be a QSP whenever the project requires a WPCP. The WPC Manager must be a QSD whenever the project requires a SWPPP.

Water Pollution Control Program (WPCP). A WPCP is a plan to identify water quality management practices to be implemented that must be prepared for all construction projects that do not require preparation of a SWPPP. For Caltrans projects disturbing more than one acre, a SWPPP satisfies the requirement for a WPCP.

Waters of the United States. Generally, refers to surface waters, as defined by the federal Environmental Water quality objectives are defined in the California Water Code as limits or levels of water quality constituents or characteristics, which are established for the reasonable protection of beneficial uses of water or the prevention of nuisance within a specific area.





Appendix B: Selection of Temporary Soil Stabilization Controls





Appendix C: Active Treatment Systems





CITY OF GOLETA

APPENDIX M WATER POLLUTION CONTROL PLAN

FOR

2025 ARTERIAL PAVEMENT PROJECT

APPENDIX M ADDENDUM 1
ADDENDUM 1

Back of Cover Sheet

WATER POLLUTION CONTROL PLAN (WPCP) for Project Name

City of Goleta Project Number:

City Project Number

<u>Prepared for:</u> City of Goleta 130 Cremona Drive, Suite B Goleta, CA 93117 City's Project Engineer Name

Project Engineer's Telephone Number

Submitted by:

Address 1

Address 2

Contact Name

Contact Telephone Number

Project Site Address:

Job Site Address or Location Description Job Site Telephone Number

Contractor's Water Pollution Control Manager:

Site Manager Name Contact Telephone Number

WPCP Prepared by:

WPCP Company Name

WPCP Address 1

WPCP Address 2

WPCP Contact Name

WPCP Contact Telephone Number

WPCP Preparation Date

Date



Contents

Section 10 WPCP Certification and Approval
10.1 Contractor's Certification
Section 20 Project Information
Section 30 Pollution Sources and Control Measures
30.1 Soil Stabilization (Erosion Control) and Sediment Control
30.1.1 Soil Stabilization BMPs
30.1.2 Sediment Control BMPs
30.1.3 Tracking Control BMPs
30.1.4 Wind Erosion Control BMPs
30.2 Construction Site Management
30.2.1 Non-Stormwater Management BMPs
30.2.2 Waste Management and Materials Pollution Control BMPs
30.3 Water Pollution Control Drawings (WPCDs)
30.4 Construction BMP Maintenance, Inspection, and Repair
30.5 Training

WPCP Attachments

Attachment A	.Water	[.] Pollution	Control	Drawings
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Section 10 WPCP Certification and Approval

10.1 Contractor's Certification

CONTRACTOR'S CERTIFICATION OF WPCP

"I certify under a penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted, to the best of my knowledge and belief is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature

Date

Name and Title

Telephone Number

Section 20 Project Information

1. Introduction and Project Description:

Provide a brief description of the project.

Describe the type(s) of work that will be performed.

Provide a breif description of the project location, including descriptive items such as freeway and street names.

Describe proximity to receiving waters to which the project will discharge, including surface waters, drainage channels, and drainage systems.

Identify drainage system owners (municipality and/or agency)

2. Unique Site Features:

Provide a brief description of any unique site features (water bodies, wetlands, environmentally sensitive area, endangered or protected species, etc.)

Describe significant or high-risk activities that may impact stormwater quality. Include any unique features or activities within or adjacent to water bodies (such as dredging, re-use of aerially deposited lead material, and/or large excavations.)

3. Potential Pollutant Sources:

Review the contract documents and associated environmental documents to determine the known site contaminants and list them in this section.

APPENDIX M-4
ADDENDUM 1

Section 30 Pollution Sources and Control Measures

30.1 Soil Stabilization (Erosion Control) and Sediment Control

30.1.1 Soil Stabilization (Erosion Control) BMPs

The following soil stabilization BMP implementation table indicates the BMPs that shall be implemented to control erosion on the construction site. Implementation and locations of temporary soil stabilization BMPs are shown on the WPCDs in Attachment A and described in this section. The BMP working details can also be found in Attachment A of this WPCP. The following list of BMPs and narrative explain how the selected BMPs will be incorporated into the project.

TEMPORARY SOIL STABILIZATION (EROSION CONTROL) BMPS				
BMP Name	Minimum Require- ment	BMP UsedYesNo		If not used, state reason
EC-1 Scheduling	\square			
EC-2 Preservation of Existing Vegetation				
EC-3 Hydraulic Mulch				
EC-4 Hydroseeding				
EC-5 Soil Binders				
EC-6 Straw Mulch				
EC-7 Geotextiles & Mats				
EC-8 Wood Mulching				
EC-9 Earth Dikes and Drainage Swales				
EC-10 Velocity Dissipation Devices				
EC-11 Slope Drains				
EC-12 Streambank Stabilization				
EC-13 Polyacrylamide				



ALTERNATIVE SOIL STABILIZATION BMPs USED				
	🗌 Yes 🗌 No			
BMP Name	BMP Description	If used, state reason		



30.1.2 Sediment Control BMPs

The following sediment control BMP implementation table indicates the BMPs that shall be implemented to control sediment on the construction site. Implementation and locations of temporary sediment control BMPs are shown on the WPCDs in Attachment A and described in this section. The BMP working details can also be found in Attachment A of this WPCP. The following list of BMPs and narrative explain how the selected BMPs will be incorporated into the project.

TEMPORARY SEDIMENT CONTROL BMPS				
	Minimum	BMP	Used	
BMP Name	Require- ment	Yes	No	If not used, state reason
SE-1 Silt Fence				
SE-2 Sediment Basin				
SE-3 Sediment Trap				
SE-4 Check Dam				
SE-5 Fiber Rolls				
SE-6 Gravel Bag Berm				
SE-7 Street Sweeping and Vacuuming	\square			
SE-8 Sandbag Barrier				
SE-9 Straw Bale Barrier				
SE-10 Storm Drain Inlet Protection	\square			
SE-11 Chemical Treatment				



ALTERNATIVE SEDIMENT CONTROL BMPs USED		
🗌 Yes 🗌 No		
BMP Description	If used, state reason	
	🗌 Yes 🗌 No	

APPENDIX M-8
APPENDIX M-8 ADDENDUM 1

30.1.3 Tracking Control BMPs

The following tracking control BMP implementation table indicates the BMPs that shall be implemented to reduce sediment tracking from the construction site onto private or public roads. Implementation and locations of tracking control BMPs are shown on the WPCDs in Attachment A and described in this section. The BMP working details can also be found in Attachment A of this WPCP. The following list of BMPs and narrative explain how the selected BMPs will be incorporated into the project.

TEMPORARY TRACKING CONTROL BMPS				
BMP Name	Minimum Require- ment	BMP Yes	No	If not used, state reason
SE-7 Street Sweeping and Vacuuming	\square			
TC-1 Temporary Construction Entrance				
TC-2 Stabilized Construction Roadway				
TC-3 Temporary Entrance / Outlet Tire Wash				

ALTERNATIVE TRACKING CONTROL BMPs USED		
	🗌 Yes 🗌 No	
BMP Name	BMP Description	If used, state reason

APPENDIX M-9
ADDENDUM 1

30.1.4 Wind Erosion Control BMPs

The following wind erosion control BMP implementation table indicates the BMPs that shall be implemented to control wind erosion on the construction site. Implementation and locations of wind erosion control BMPs are shown on the WPCDs in Attachment A and/or described in this section. The BMP working details can be found in Attachment A. The following list of BMPs and narrative explain how the selected BMPs shall be incorporated into the project.

TEMPORARY WIND EROSION CONTROL BMPS					
BMP Name	Minimum Require- ment	BMP Yes	Used No	If not used, state reason	
WE-1 Wind Erosion Control					
TC-1 Temporary Construction Entrance					
TC-2 Stabilized Construction Roadway					
All Soil Stabilization Measures Included in Section 30.1.1					

ALTE	RNATIVE WIND EROSIO	ON BMPs USED
	🗌 Yes 🗌 No	
BMP Name	BMP Description	If used, state reason

APPEN	DIX M-10
ADDE	NDUM 1

30.2 Construction Site Management

30.2.1 Non-Stormwater Management BMPs

The following BMP implementation table indicates the BMPs that have been selected to control non-stormwater pollution on the construction site. Implementation and locations of non-stormwater control BMPs are shown on the WPCDs in Attachment A and described in this section. The BMP working details that will be adhered to are found in Attachment A of this WPCP.

TEMPORARY NON-STORMWATER POLLUTION CONTROL BMPS						
	Minimum	BMP	Used			
BMP Name	Require- ment	Yes	No	If not used, state reason		
NS-1 Water Conservation Practices	\boxtimes					
NS-2 Dewatering Operations						
NS-3 Paving and Grinding Operations						
NS-4 Temporary Stream Crossing						
NS-5 Clear Water Diversion						
NS-6 Illicit Connection/Discharge	\square					
NS-7 Potable Water/Irrigation						
NS-8 Vehicle and Equipment Cleaning						
NS-9 Vehicle and Equipment Fueling						
NS-10 Vehicle and Equipment Maintenance						
NS-11 Pile Driving Operations						
NS-12 Concrete Curing						
NS-13 Concrete Finishing						
NS-14 Material and Equipment Use						
NS-15 Demolition Adjacent to Water						



NS-16 Temporary Batch Plants		

	ION-STORMWATER PO USED	LLUTION CONTROL BMPs
	🗌 Yes 🗌 No	
BMP Name	BMP Description	If used, state reason

APPENDIX M-12
ADDENDUM 1

30.2.2 Waste Management and Materials Pollution Control BMPs

The following BMP implementation table indicates the BMPs that have been selected to control construction site wastes and materials. Implementation and locations of materials handling and waste management BMPs are shown on the WPCDs in Attachment A. The BMP working details that will be adhered to are found in Attachment A of this WPCP. The following list of BMPs and narrative explain how the selected BMPs will be incorporated into the project.

TEMPORARY WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPS

	<u> </u>			3		
Minimum BMP Used						
BMP Name	Require- ment	Yes	No	If not used, state reason		
WM-1 Material Delivery and Storage	\square					
WM-2 Material Use	\square					
WM-3 Stockpile Management	\square					
WM-4 Spill Prevention and Control	\square					
WM-5 Solid Waste Management	\square					
WM-6 Hazardous Waste Management						
WM-7 Contaminated Soil Management						
WM-8 Concrete Waste Management						
WM-9 Sanitary/ Septic Waste Management						
WM-10 Liquid Waste Management						



ALTERNATIVE WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs USED Pollution Pres Yes No BMP Name BMP Description If used, state reason

APPENDIX M-14
ADDENDUM 1

30.3 Water Pollution Control Drawings (WPCDs)

The WPCDs are included as Attachment A to this Water Pollution Control Program.

30.4 Construction BMP Maintenance, Inspection, and Repair

Site inspections shall be conducted by the Contractor's WPCM at the following minimum frequencies:

- Prior to a forecast storm.
- After a rain event that causes runoff from the construction site.
- At 24-hour intervals during extended rain events.
- Weekly during the rainy season.
- Every 2 weeks during the non-rainy season; and
- At any other time(s) or intervals of time specified in the Contract Special Provisions.

A tracking or follow-up procedure shall follow any inspection that identifies deficiencies in BMPs.

30.5 Water Pollution Control Manager

The Water Pollution Control Manager (WPCM) assigned to this project is:

Insert WPCM's Name

Insert WPCM's Telephone Number

Insert Contractor's Company Name

The WPCM shall have primary responsibility and significant authority for the implementation, maintenance, inspection and amendments to the approved WPCP. The WPCM will be available at all times throughout duration of the project. Duties of the Contractor's WPCM include but are not limited to:

- Ensuring full compliance with the WPCP; and
- Implementing all elements of the WPCP.

The WPCM shall have the authority to mobilize crews in order to make immediate repairs to the water pollution control measures.

APPENDIX M-15	5
ADDENDUM 1	

CITY OF GOLETA

APPENDIX N STANDARD DRAWINGS AND DETAILS

FOR

2025 ARTERIAL PAVEMENT PROJECT

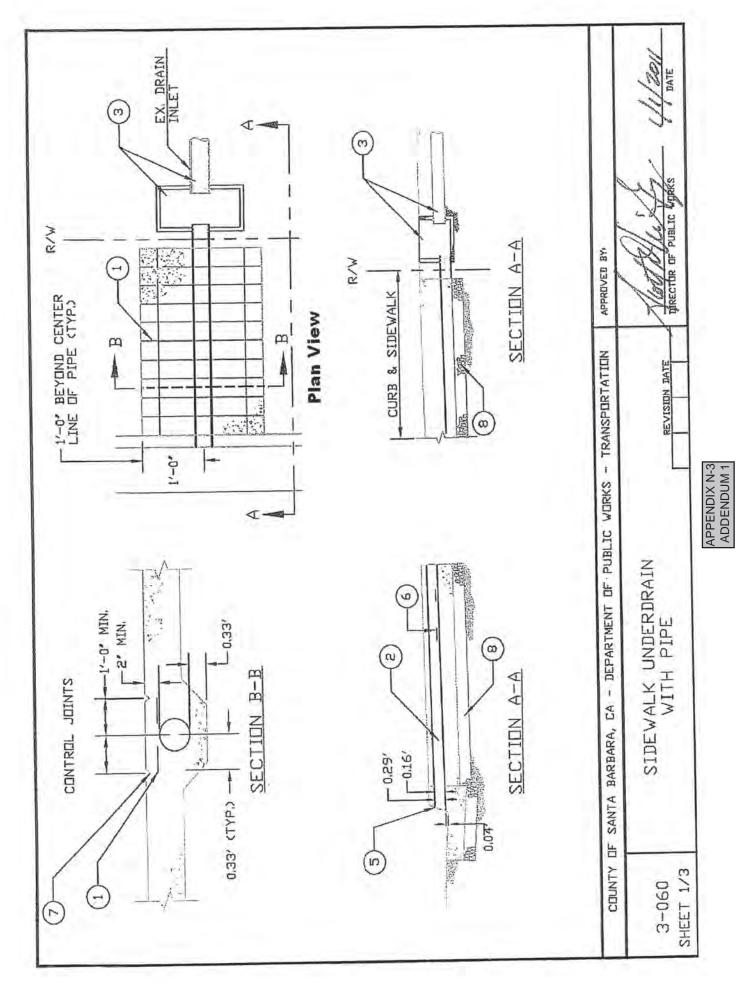
- 1. County of Santa Barbara Standard Drawings and Details (September 2011)
 - i. 1-010 General Street Specifications
 - ii. 3-060 Sidewalk Underdrain With Pipe
 - iii. 4-010 Curb and Driveway General Notes
 - iv. 4-020 Spandrels and Cross Gutters
 - v. 4-030 Curbs and Gutters
 - vi. 4-040 Driveway Details
 - vii. 4-045 Monolithic Curb and Sidewalk
 - viii. 4-060 Driveway Grade-Breaks
 - ix. 5-010 General Sidewalk Notes
 - x. 5-040 Sidewalk Details
 - xi. 5-045 Sidewalk Transitions
 - xii. 5-050 Sidewalk Utilities
 - xiii. 7-010 General Signage Notes
 - xiv. 7-050 Roadside Sign Posts
 - xv. 8-010 Tree Planting
- 2. Caltrans Standard Plans (2018)
 - i. A87A Curbs and Driveways
 - ii. A87B Hot Mix Asphalt Dikes
 - iii. A88A Curb Ramp Details
 - iv. A88B Curb Ramp and Island Passageway Details
 - v. A20A D Pavement Markers and Traffic Lines Typical Details
 - vi. A20E Traffic Lines Typical Details For Contrast Striping
 - vii. A20F Pavement Markers and Traffic Lines Typical Details
 - viii. A20G Exit Ramp With Enhanced Pavement Markers for Wrong Way Details
 - ix. A24A Pavement Markings Arrows
 - x. A24B Pavement Markings Arrows and Symbols
 - xi. A24C Pavement Markings Symbols and Numerals
 - xii. A24D E Pavement Markings Words
 - xiii. A24F Pavement Markings Crosswalks
 - xiv. A24G Pavement Markings Yield Lines, Limit Lines and Wrong Way Details
 - xv. A24H Pavement Markings Arrows
 - xvi. A24J Pavement Markings Speed Measurement
 - xvii. A24K Pavement Markings Bicycle Obstruction Markings
- xviii. A24L Pavement Markings Speed Reduction

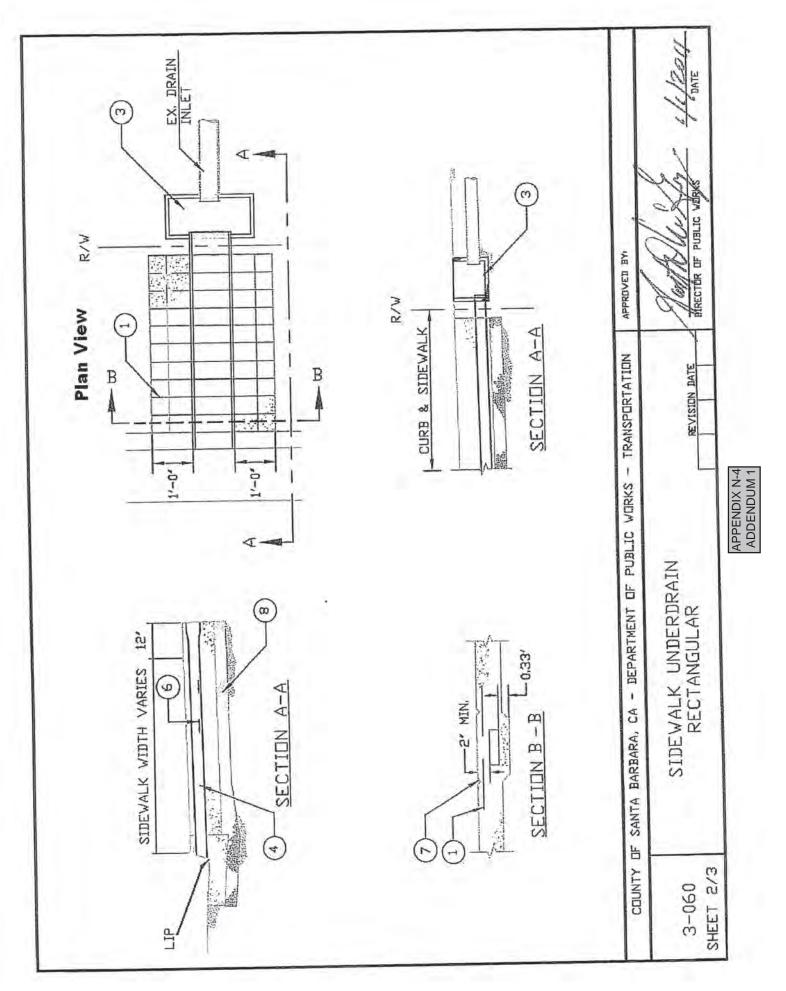


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7. WATER FOR COMPACTION AND DUST CONTROL SHALL BE MADE AVAILABLE BY THE CONTRACTOR, DUST AND EROSION CONTROL ARE THE RESPONSIBILTY OF THE CONTRACTOR AND SHALL BE AS DIRECTED BY THE COUNTY ENGINEER. B. AN EROSION & SEDIMENT CONTROL PLAN OR A STORM WATER POLUTION PREVENTION PLAN SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE COUNTY ENGINEER IN ACCORDANCE WITH THE STATE COUNTY GRADING CODE CCHAPTER 14 SBCC) OR WITH THE STATE COUNTY GRADING CODE CCHAPTER 14 SBCC) OR WITH THE STATE COUNTY GRADING CODE CCHAPTER 14 SBCC) OR WITH THE STATE COUNTY GRADING CODE CCHAPTER 14 SBCC) OR WITH THE STATE ON SAPLICABLE. 9. TRENCH BEDDING AND BACKFILL FOR ALL STORM DRAINS, CULVERTS, AND UTILITY TRENCHING SHALL COMPLY WITH THE DETAILS OF SECTION 2.	ALL DRAINAGE FACILITIES SHALL COMPLY WITH THE STANDARDS SECTION 3. ALL CURBS AND DRIVEWAYS SHALL COMPLY WITH THE STANDARDS SECTION 4. ALL SIDEWALKS & RAMPS SHALL COMPLY WITH THE STANDARDS SECTION 5.	13. ALL RUAD FRUFILLES AND STRUCTURAL SECTIONS SHALL CUMPLY WITH THE STANDARDS OF SECTION 6. 14. STREET NAME SIGNS, BARRICADES, TRAFFIC CONTROL AND TRAFFIC WARNING SIGNS SHALL BE PLACED IN ACCORDANCE WITH SECTION 7 OF THESE STANDARD DETAILS AND THE CALIFORNIA MANUAL DN UNIFORM TRAFFIC CONTROL DEVICES, ALL OF CURRENT DATE.	APPRUVED BY	Medific Multing 11/2011	
	허무 백무 허무 1		WDRKS - TRANSPORTATION	S REVISION DATES	APPENDIX N-1 ADDENDUM 1
 CDUNTY STANDARD PLANS AND SPECIFICATIONS SHALL INCLUDE THE CURRENT VERSIONS OF CALTRANS STANDARD PLANS AND SPECIFICATIONS AND APWA STANDARD PLANS AND SPECIFICATIONS FOR SDUTHERN CALIFORNIA. IF THERE IS A CONFLICT BETWEEN THESE STANDARD PLANS AND SPECIFICATIONS, THE COUNTY STANDARD DETAILS SHALL GOVERN ON COUNTY RDADS. CALTRANS PLANS SHALL HAVE PRECEDENCE OVER APWA PLANS UNLESS SPECIFICALLY STATED OTHERWISE. 2. CONSTRUCTION PLANS STANDARD PLANS AND SPECIFICATIONS OR CURRENT OF PUBLIC WORKS ENGINEERING DESIGN STANDARDS OR CURRENT CALTRANS STANDARD PLANS AND SPECIFICATIONS. 3. COMMENCEMENT OF CONSTRUCTION PLANS AND SPECIFICATIONS. 3. COMMENCEMENT OF CONSTRUCTION SHALL NOT BE AUTHORIZED UNTIL SUCH TIME THAT THE CONSTRUCTION PLANS HAVE BEEN 	REVIEWED BY THE DIRECTOR OF PUBLIC WORKS AND AN ENCROACHMENT PERMIT HAS BEEN ISSUED. THE "DIRECTOR OF PUBLIC WORKS' SHALL BE INTERPRETED TO MEAN THE DIRECTOR OR HIS DESIGNATED REPRESENTATIVE(S) REFERRED TO MERE AS THE COUNTY ENGINEER. 4. INSPECTION BY THE COUNTY ENGINEER SHALL BE REQUESTED BY THE CONTRACTOR IMMEDIATELY PRIOR TO COMMENCING AND IMMEDIATELY AFTER COMPLETING EACH PHASE OF CONSTRUCTION.	5. UNLESS PRIDR AUTHORIZATION HAS BEEN GRANTED BY THE COUNTY ENGINEER, ALL VERTICAL DATUM SHALL BE BASED ON NAD BB DATUM. BB DATUM, AND HORIZONTIAL CODRDINATES BASED ON NAD 83 DATUM. 6. THE STANDARD TEST FOR MAXIMUM DENSITY AND OPTIMUM MOISTURE CONTENT SHALL BE ASTM D 1557 (CURRENT VERSION) METHOD "A", "B", DR "C". FIELD TEST FOR IN PLACE DENSITY AND MOISTURE CONTENT SHALL BE ASTM D 2922 AND D 3017 (CURRENT VERSIONS). TEST METHOD "C" MAY BE MODIFIED TO ALLOW THE USE OF CALIFORNIA TEST METHOD 370 FOR DETERMINING MOISTURE CONTENT OF MINERAL AGGREGATE USING MICROWAVE DVENS.	DF SANTA BARBARA, CA - DEPARTMENT DF PUBLIC W	GENERAL STREET SPECIFICATIONS	APPEN
1. CDUNTY ST THE CURRENT SPECIFICATIC FDR SDUTHEF THESE STAND STANDARD DE PLANS SHALL SPECIFICALL' CONSTRUCC DEPARTMENT CURRENT CAL	REVIEVED B ENCRDACHMEN VUDRKS' SHAL DESIGNATED ENGINEER. 4. INSPECTIO THE CONTRAC IMMEDIATELY	5. UNLESS P COUNTY ENGI 88 DATUM, A 6. THE STAN MOISTURE CE METHOD "A", MOISTURE CC VERSIONS). OF CALIFORN CONTENT OF CONTENT OF	COUNTY	1-010 SHT 1/2	

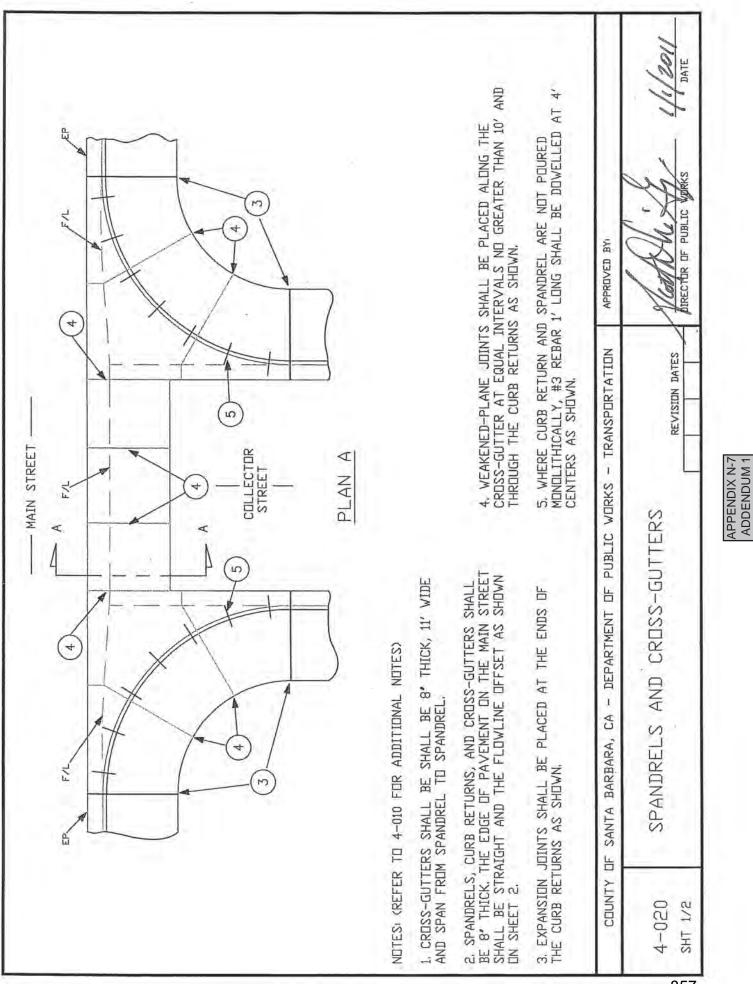
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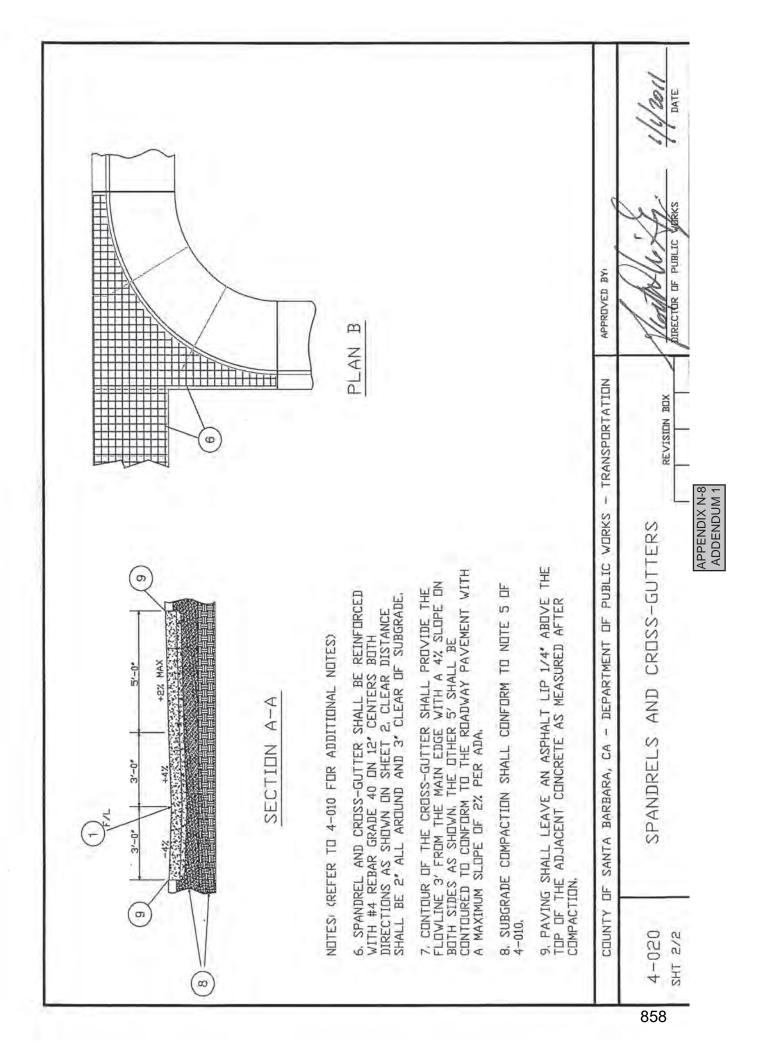


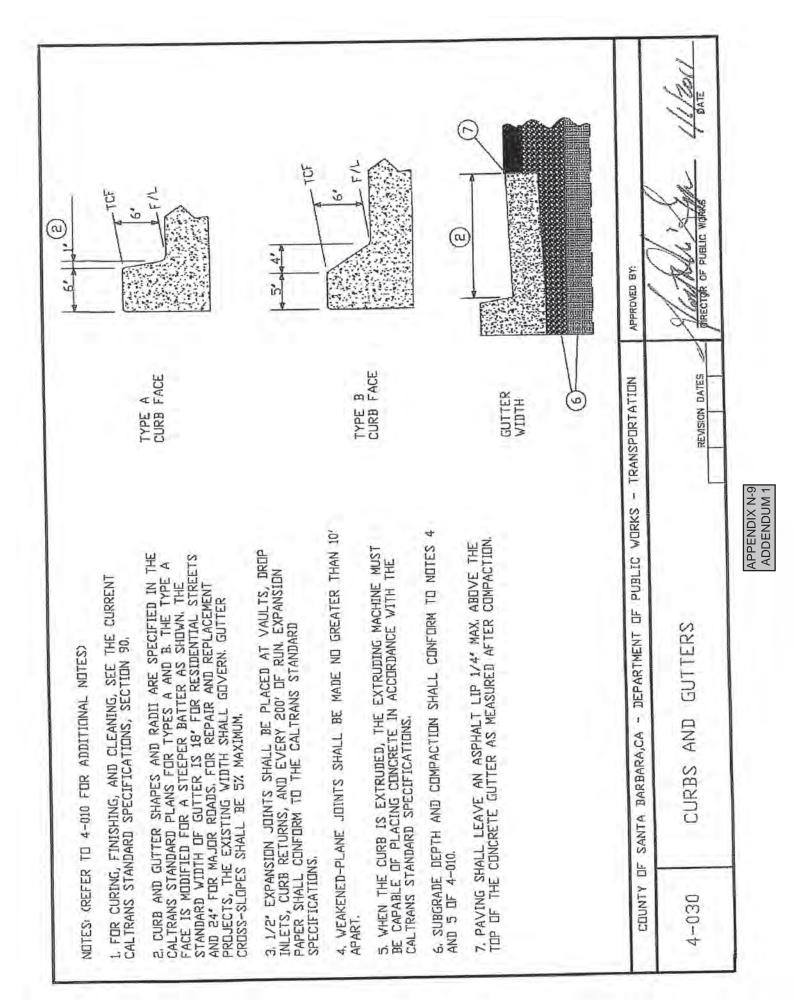


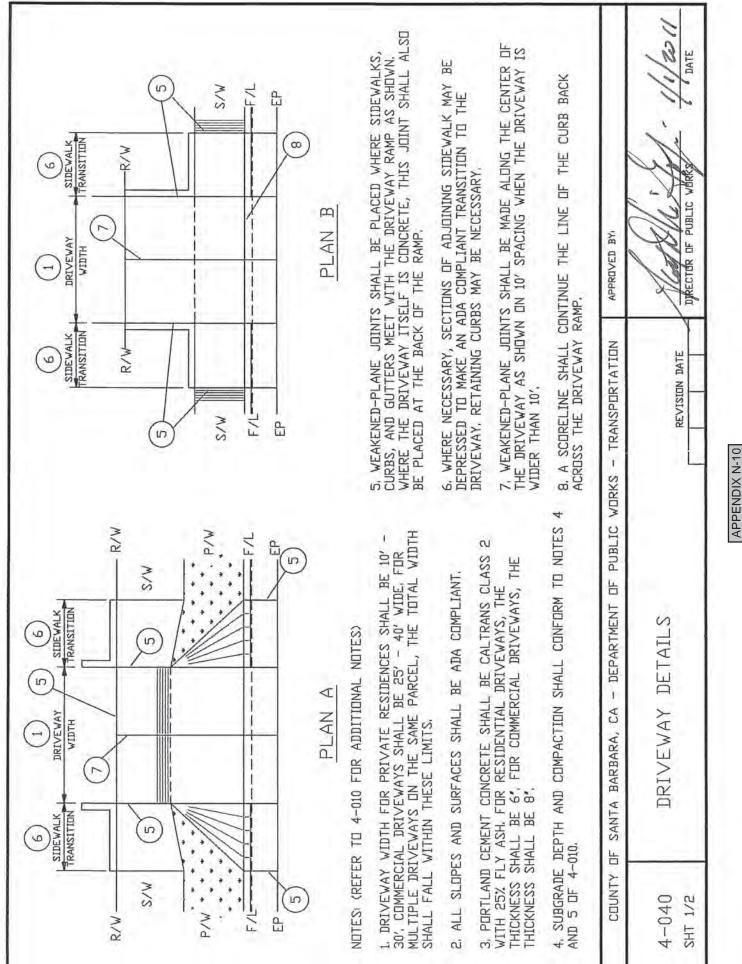
٩Y		5							DATE DATE	
<u>uiher nuies:</u> Underdrain Shall Ndt Be Within 5' of A Driveway Apron or Curb Return,	IF SIDEWALK REMOVAL IS REQUIRED, A FULL PANEL SHALL BE REPLACED JOINT TO JOINT. SUBGRADE SHALL BE EXCAVATED SO THAT 4 INCHES OF	CUNCRETE WILL BE UNDER THE DRAIN AND A MINIMU 2 INCHES OF CONCRETE COVERAGE. CONCRETE SHALL BE CALTRANS CLASS 3 OR BETTER WITH 25% FLY-ASH.						KKS - TRANSPORTATION APPROVED BY	REVISION DATE ALLE TO ALLE ADRES 11	APPENDIX N-5 ADDENDUM 1
1. 6 IN. X 6 IN. SPACING GALVANIZED MESH SHALL EXTEND 1'-O' BEYOND CENTERLINE OF PIPE OR SHALL EXTEND 1'-O' BEYOND OUTER EDGE OF RECTANGULAR CAST IRON CONDUIT.	PIPE SCHEDULE 40 (MINIMUM) DR APPROVED BETTER, PIPE SLDPE SHALL BE 2% AND PARALLEL WITH SIDEWALK SURFACE AND DN CONTROL JOINTS.	3. WHEN A DRAIN PIPE FROM A PROPERTY DWNER IS LARGER THAN 3° DIA,, A CLEANDUT BOX SHALL BE USED UPSTREAM OF THE SIDEWALK DRAIN AND OUTSIDE OF THE COUNTY'S RIGHT-OF-WAY, NOTEL WHEN A SINGLE 3° MINIMUM SIZE PIPE IS USED BY THE PROPERTY DWNER, A CLEANOUT BOX IS NOT REQUIRED.	4. 3*x12.5* (MAXIMUM) RECTANGULAR CAST IRDN CONDUIT- ALHAMBRA, A-470, OR APPROVED EQUAL.	5. CDRING FACE DF CURB SHALL BE REQUIRED. <u>NDTE.</u> CDRING IS REQUIRED WHEN MONDLITHIC POUR IS NDT PROVIDED, DRY PACK GROUT AROUND PIPE TO FILL THE GAP.	6. MAXIMUM DNE DRAIN PER SITE, MAXIMUM DF 2 CUBIC FEET PER SECOND (FLOV RATE) AND 2 FEET PER SECOND (VELOCITY) MAXIMUM ALLOVED AT OUTLET.	7, DEEP CONTROL JOINTS AT LOCATION SHOWN.	8. 4° COMPACTED CLASS II BASEJ 90% RELATIVE COMPACTION DR APPROVED NATIVE.	· SANTA BARBARA, CA - DEPARTMENT OF PUBLIC WORKS	SIDEWALK UNDERDRAIN	APPEN
I. 6 IN. X 6 EXTEND 1'-0' EXTEND 1'-0' CAST IRDN CC	2. 3' PVC PII EQUAL DR BE SHALL BE PAI CENTERED DN	3, WHEN A DR LARGER THAN UPSTREAM DF THE CDUNTY'S MINIMUM SIZE A CLEANDUT	4. 3*x12.5* (M CONDUIT- ALH	5, CORING FA CORING IS RE PROVIDED, DR GAP,	6. MAXIMUM DI FEET PER SEC SECOND (VELI	7, DEEP CONT	8. 4' COMPAC	COUNTY OF	3-060 SHEET 3/3	

(REFER TO 1-	(REFER TO 1-010 FOR ADDITIONAL NOTES)	
1. FOR SPECIF CLASS, COMPC CLASS, COMPC POURING, FINIS CALTRANS STA	 FOR SPECIFICATIONS FOR PORTLAND CEMENT CONCRETE CLASS, COMPONENTS, AND PROCEDURES FOR MIXING, POURING, FINISHING, CURING, & CLEANING, REFER TO CALTRANS STANDARD SPECIFICATIONS, SECTION 90. 	
2. UNLESS OTI CALTRANS CLA LIGHT BROOM	2. UNLESS OTHERWISE SPECIFIED, ALL CONCRETE SHALL BE CALTRANS CLASS 2 WITH 25% FLY-ASH CONCRETE WITH A LIGHT BROOM FINISH.	
3. THE MINIMUM FALL F CUL-DE-SACS IS 0.5%.	3. THE MINIMUM FALL FOR ALL GUTTERS ON STREETS AND CUL-DE-SACS IS 0.5%.	
4. FOR SPECIF SUBBASE, REF CALTRANS STA	4. FOR SPECIFICATIONS FOR CLASS 2 BASE AND CLASS 4 SUBBASE, REFER TO SECTIONS 25 AND 26 OF THE CALTRANS STANDARD SPECIFICATIONS.	
5. A 6" LAYEF COMPACTED T(5. A 6" LAYER OF CLASS 2 BASE SHALL BE PLACED AND COMPACTED TO 95% OF MAXIMUM DENSITY.	
6. EXPANSION APPROVED FILI	6. EXPANSION JOINTS SHALL BE PROVIDED WITH CALTRANS APPROVED FILLER PAPER 1/2" THICK.	
7. WEAKENED- GROOVE 1/3 C	7, WEAKENED-PLANE JOINTS SHALL BE TOOLED FOR A DEEP GROOVE 1/3 OF THE THICKNESS OF THE CONCRETE.	
8. WHERE CALLED FOR A 1/4" DEEP GROOVE.	8. WHERE CALLED FOR, SCORELINES SHALL BE TOOLED WITH A 1/4" DEEP GROOVE.	
9. FOR ALL A. PLANS.	9. FOR ALL ASPHALT DIKES, REFER TO CALTRANS STANDARD PLANS.	
COUNTY	DF SANTA BARBARA, CA - DEPARTMENT DF PUBLIC WORKS - TRANSPORTATION	APPROVED BY
4-010	CURB AND DRIVEWAY GENERAL NUTES	Manueltar art 1/1/2011



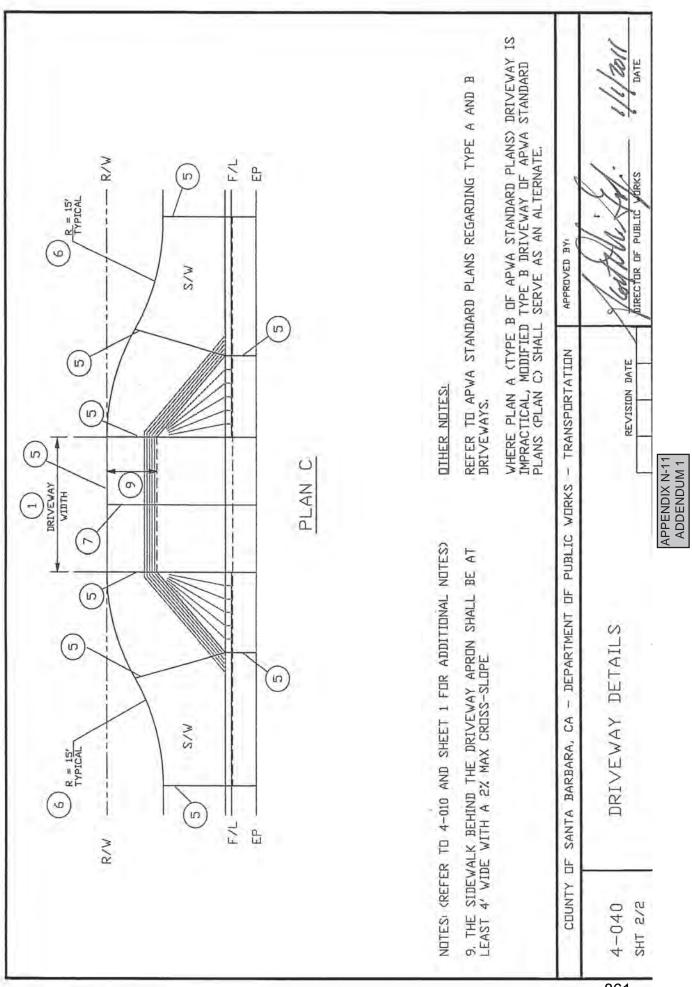






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ADDENDUM 1



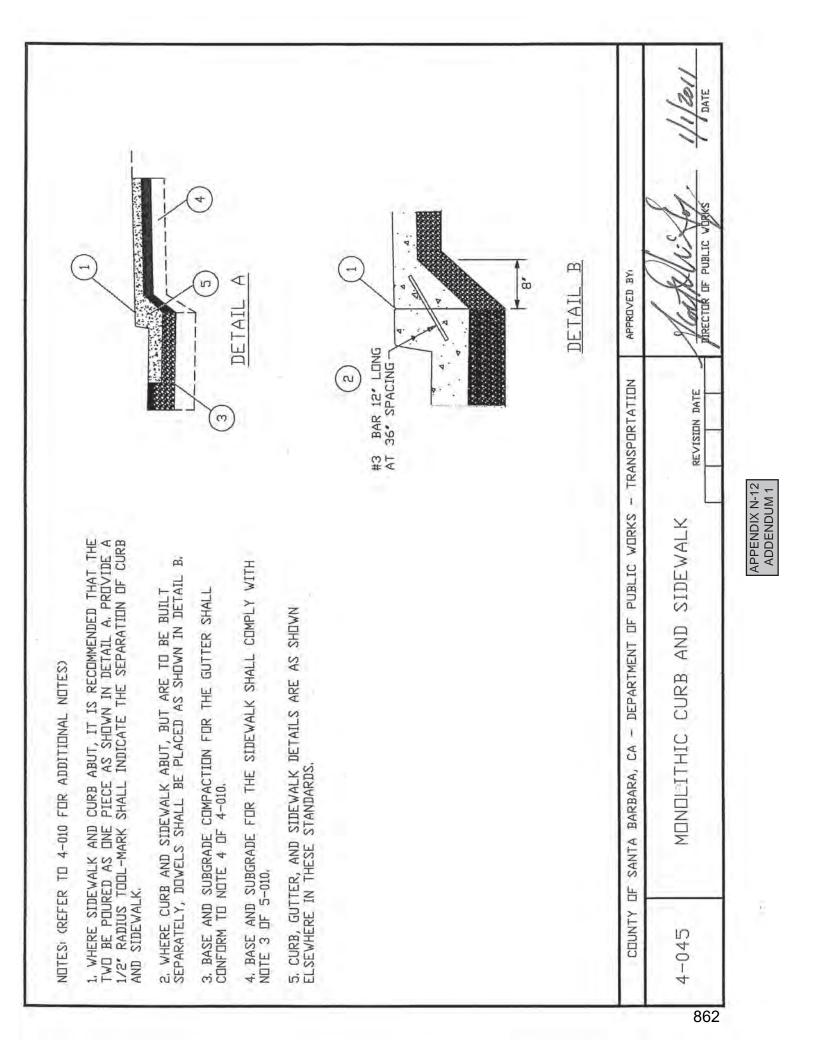
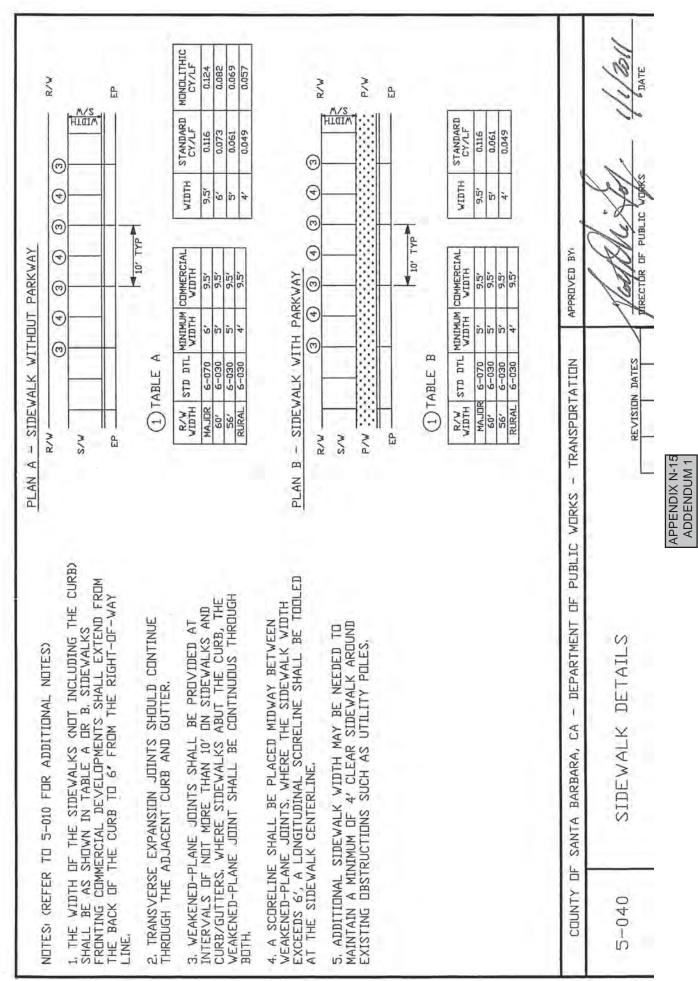
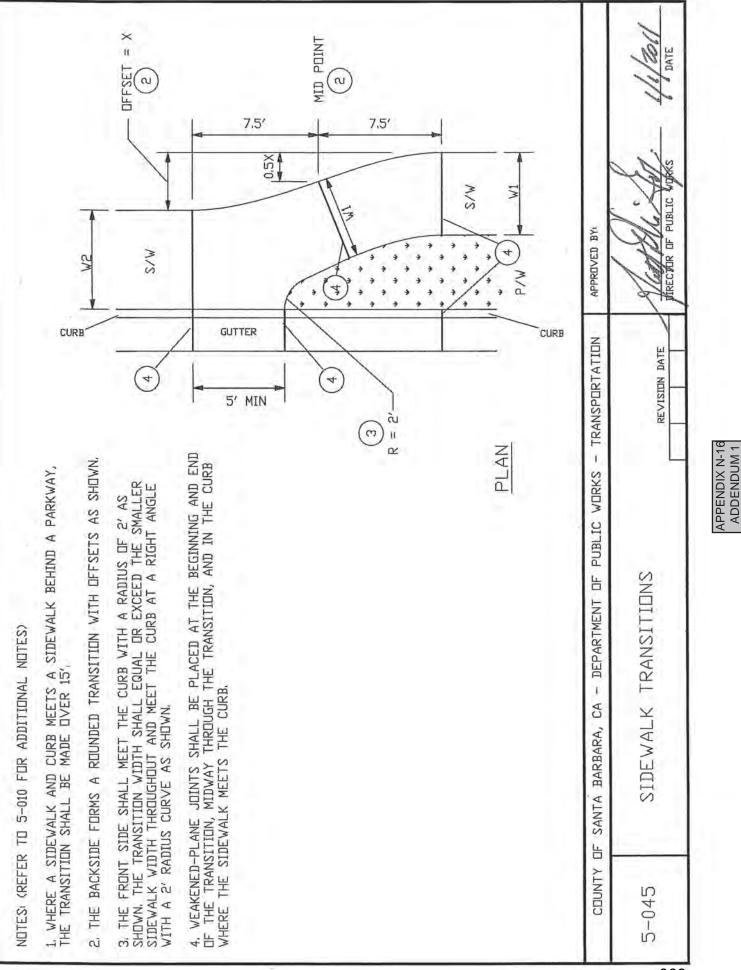
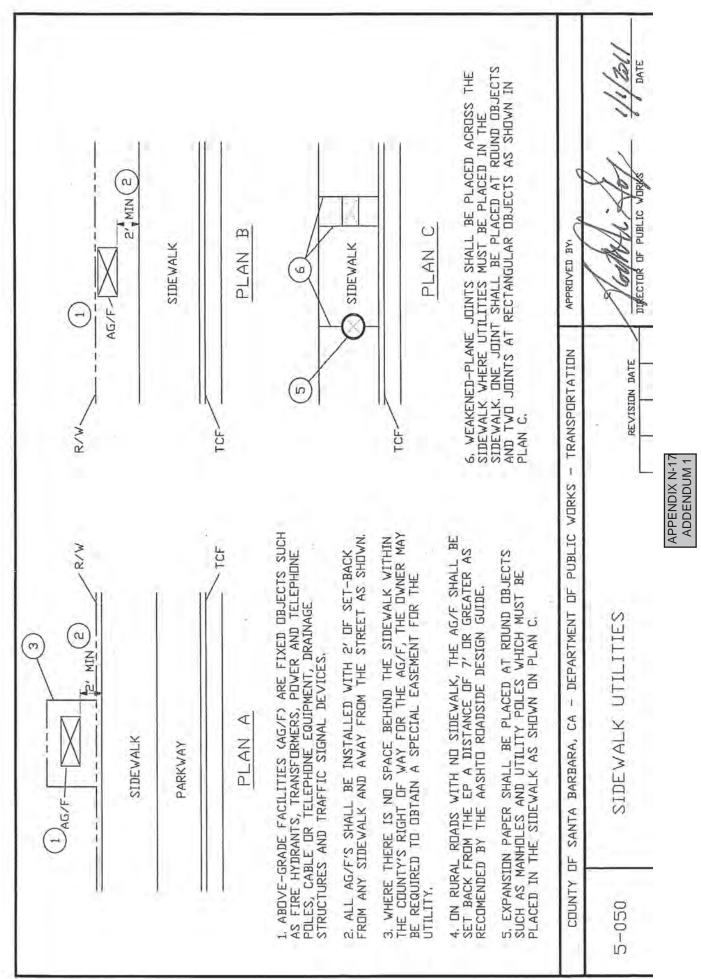


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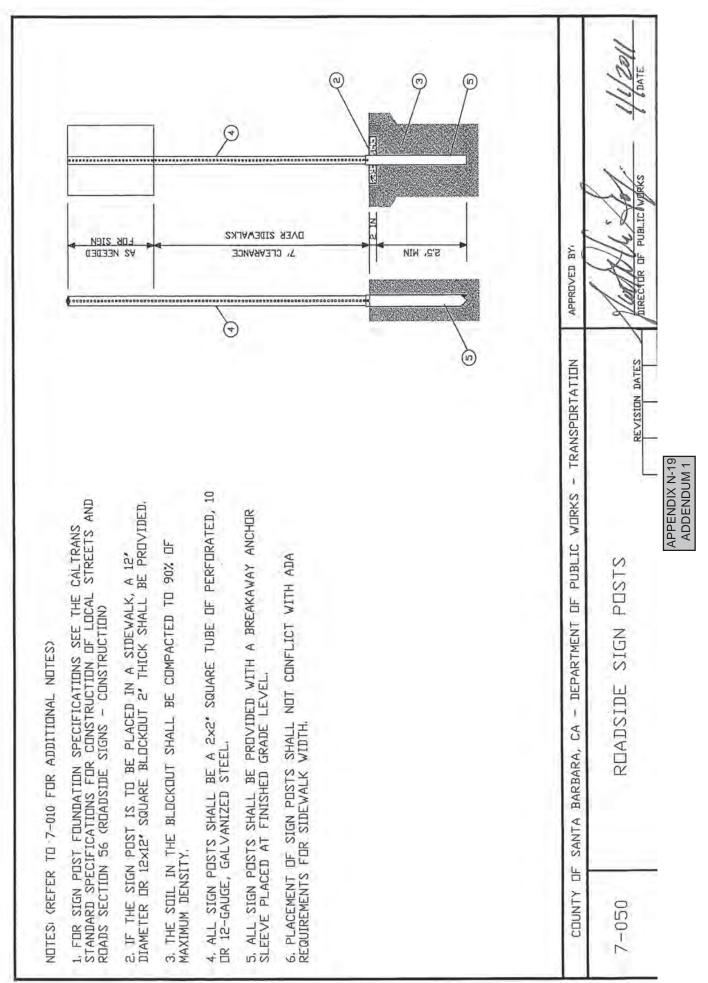
6. WEAKENED-PLANE JOINTS SHALL BE TODLED 1-1/2' DEEP DN SIDEWALKS, CURBS AND GUTTERS AT INTERVALS OF NO MDRE THAN 10', AND AT BUTH SIDES OF METER BOXES AND PULL BOXES, JOINTS IN ADJACENT CURBS AND SIDEWALKS SHALL BE		AND THEY SHALL BE PLACED SD AS TO CONTINUE THE CURB KEIUKNS, THEY SHALL BE PLACED SD AS TO CONTINUE THE CURB LINE G THROUGH THE RAMP. FER 8. UTILITY BDXES AND VAULTS SHALL NOT BE LOCATED IN STDEVIALIES WHERE POSSIBLE THERE SHALL NOT BE AMINMIM DE		SENT	AND AINAGE AULTS R	F PUBLIC WORKS - TRANSPORTATION APPROVED BY	JTES REVISION DATES MENTANNA OF UNITED
KREFER TO 1-010 FOR ADDITIONAL NOTES) 1. CONCRETE FOR SIDEWALKS AND CURB RAMPS SHALL B CALTRANS CLASS 3 OR BETTER WITH 25% FLY-ASH IN		2. THICKNESS DF SIDEWALKS SHALL BE 4' MINIMUM, AND THE TRANSVERSE SLDPE SHALL BE 2Z MAX DRAINING TOWARD THE CURB, MINIMUM WIDTH SHALL BE 4', REFER TD TABLES IN 5-040.	3. SUBGRADE MATERIAL SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY FOR A 0.50° DEPTH. IN EXPANSIVE SOILS AND SOILS WHICH CANNOT REACH 90% RELATIVE COMPACTION, A 0.35° LAYER OF CALTRANS CLASS 4 BASE OR BETTER SHALL BE PLACED AND COMPACTED TO 90% RELATIVE COMPACTION.	4. ADA COMPATIBLE SLOPES, DETECTABLE WARNING SURFACES, AND GRODVED BORDERS AT GRADE BREAKS SHALL BE PROVIDED WHERE REQUIRED BY ALL CURRENT REGULATIONS.	5. EXPANSION JOINTS SHALL BE MADE WITH 1/2' EXPANSION PAPER AND PLACED AT THE BEGINNING AND END DF EACH CURB RETURN, DN EACH SIDE DF DRAINAGE STRUCTURES SUCH AS DROP INLETS, AT UTILITY VAULTS AND POLES, EVERY 200' DF LENGTH, AND AT OTHER PLACES AS DIRECTED BY THE COUNTY ENGINEER.	DF SANTA BARBARA, CA - DEPARTMENT DF	GENERAL SIDEWALK NOTES
KREFER TO 1-010 1. CONCRETE FOR CALTRANS CLASS	I HE MIX DESIGN. FOR DRIVEWAYS BETTER.	2. THICKN THE TRAN TOWARD TO TABLE	3. SUBGR MAXIMUM SDILS AN COMPACTI DIR BETTE RELATIVE	4. ADA COMPA SURFACES, AN SHALL BE PRI REGULATIDNS.	5, EXPANSID EXPANSID END DF E STRUCTUR AND POLE PLACES A	COUNTY	5-010



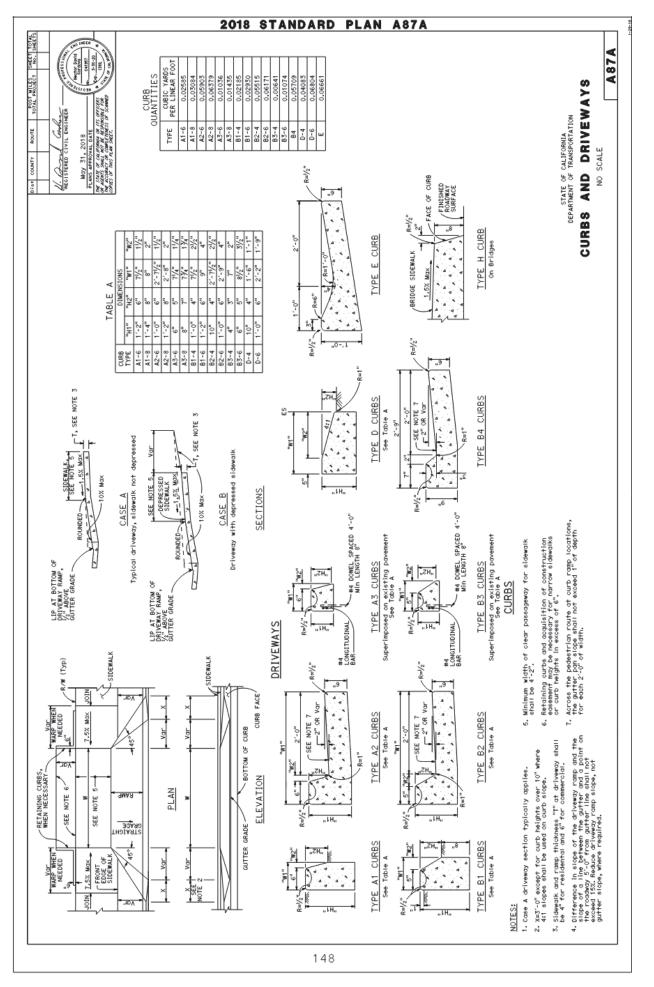




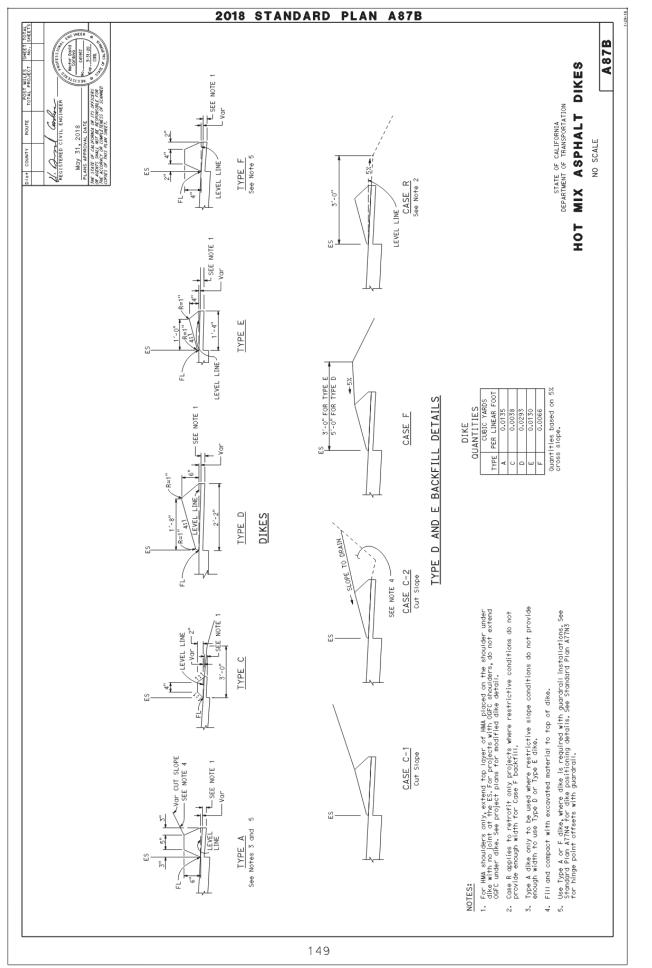
NDTES: CREFE	NDTES: (REFER TD 1-010 FDR ADDITIONAL NDTES)
1, TRAFFIC S TD THE CALI CONTROL DEV CALTRANS ST	1. TRAFFIC SIGNS, MARKING AND STRIPING SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CAL-MUTCD), CURRENT VERSION AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
2, THE PLAC STRIPING IN REVIEWED B	2. THE PLACEMENT DF TRAFFIC SIGNS, MARKINGS, AND STRIPING IN SUBDIVISIONS SHALL FOLLOW A PLAN REVIEWED BY THE COUNTY ENGINEER.
3. THE PLAC SIGNS REQUI SUPERVISDR SIGNS MUST DPENING THE	3. THE PLACEMENT DF 'STOP' SIGNS AND SPEED LIMIT SIGNS REQUIRE THE APPROVAL OF THE COUNTY BOARD OF SUPERVISORS AT THE REQUEST OF THE COUNTY ENGINEER. SIGNS MUST BE APPROVED AND IN PLACE PRIOR TO OPENING THE ROAD TO THE PUBLIC.
4. STREET N 7-060.	4. STREET NAME SIGNS SHALL CONFORM TO 7-050 AND 7-060.
5. TAPER LE NARROWING, SHALL BE RE	5. TAPER LENGTHS FOR RDADWAY WIDENING AND Narrowing, traffic signs, and pavement markings Shall be reviewed by the county engineer.
6. FLEXIBLE REQUIRED IN ENGINEER.	6, FLEXIBLE DBJECT AND DTHER MARKERS MAY BE REQUIRED IN RURAL AREAS AS DIRECTED BY THE COUNTY ENGINEER.
COUNTY	DF SANTA BARBARA, CA - DEPARTMENT DF PUBLIC WORKS - TRANSPORTATION APPROVED BY
7-010	GENERAL SIGNAGE NOTES REVISION DATE DIRECTOR OF PUBLIC MORKS 11/1/2011
	APPENDIX N-18 ADFENDIX N-18



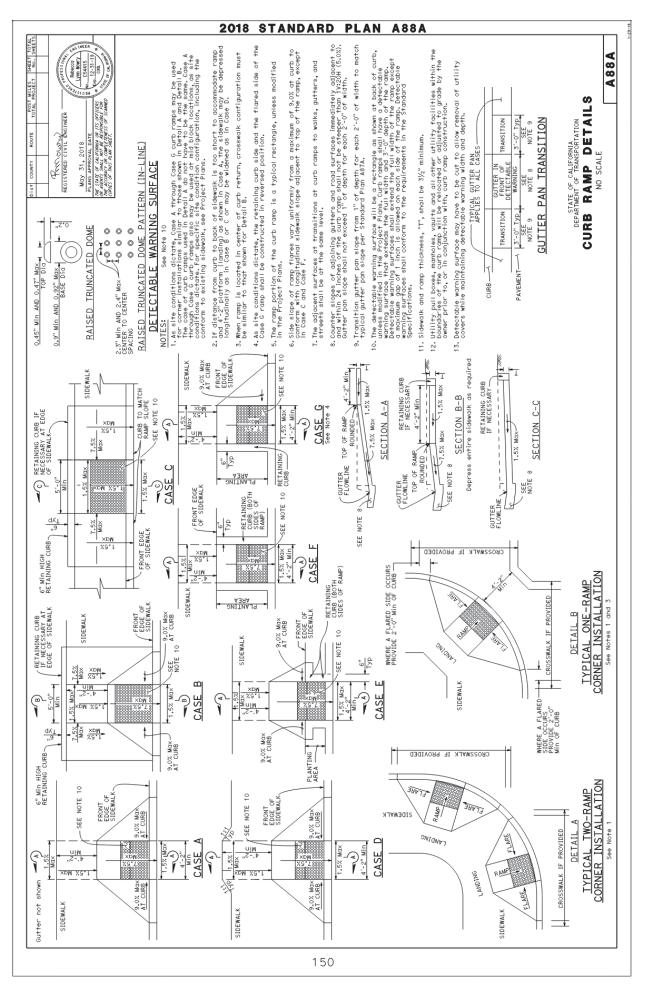
	APPENDIX N-20 ADDENDUM 1	
Marthe De PUBLIC Marks 1/1/2011	TREE PLANTING	8-010
APPROVED BY	DF SANTA BARBARA, CA - DEPARTMENT DF PUBLIC WORKS - TRÄNSPORTATION	COUNTY
	7, TREES SHALL NDT BE PLANTED ABOVE STORM DRAIN FACILITIES OR DTHER UTILITIES.	7. TREES SH FACILITIES
	6. WHERE A PARKWAY IRRIGATION SYSTEM IS BEING INSTALLED, IT SHALL BE A DRIP-TYPE SYSTEM,	6. WHERE A IT SHALL BE
	5. TREE GRDWTH SHALL BE LARGE ENDUGH TD PROVIDE ADEQUATE SIGHT-DISTANCE AT DRIVEWAYS AND INTERSECTIONS AND AT LEAST 7' DF CLEARANCE DVER SIDEWALKS.	5. TREE GRE ADEQUATE S AND AT LEA
	4, TREE WELLS AND GRATES SHALL BE PLACED TO ALLOW AT LEAST 4' OF SIDEWALK CLEARANCE FOR PEDESTRIAN TRAFFIC.	4, TREE WEI LEAST 4' DF
	3. TREE WELLS IN PARKWAYS DR SIDEWALKS SHALL CONFORM TO APWA STANDARD PLANS AND PROVIDED WITH ROOT SHIELDS, STAKES, PERFORATED PIPES, AND TREE WELL COVERS OR GRATES.	3, TREE WEI TD APWA ST STAKES, PEF GRATES,
	2. TREES SHALL BE PLANTED IN ACCORDANCE WITH THE BEST PRACTICE FOR THE TYPE AND SIZE OF TREE.	2. TREES SH PRACTICE FI
	1, PARKWAY TREES MUST BE SELECTED FROM THE LIST OF TREES APPROVED BY THE BOARD OF SUPERVISORS AND THE DIRECTOR OF PUBLIC WORKS.	1, PARKWAY TREES APPRI DIRECTOR OF
		NDTES



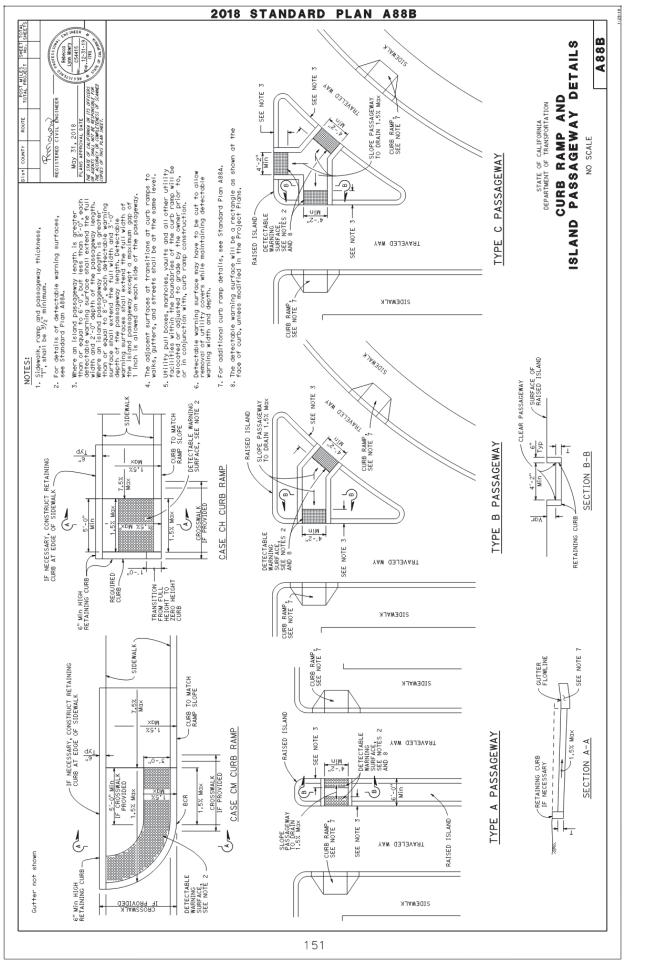
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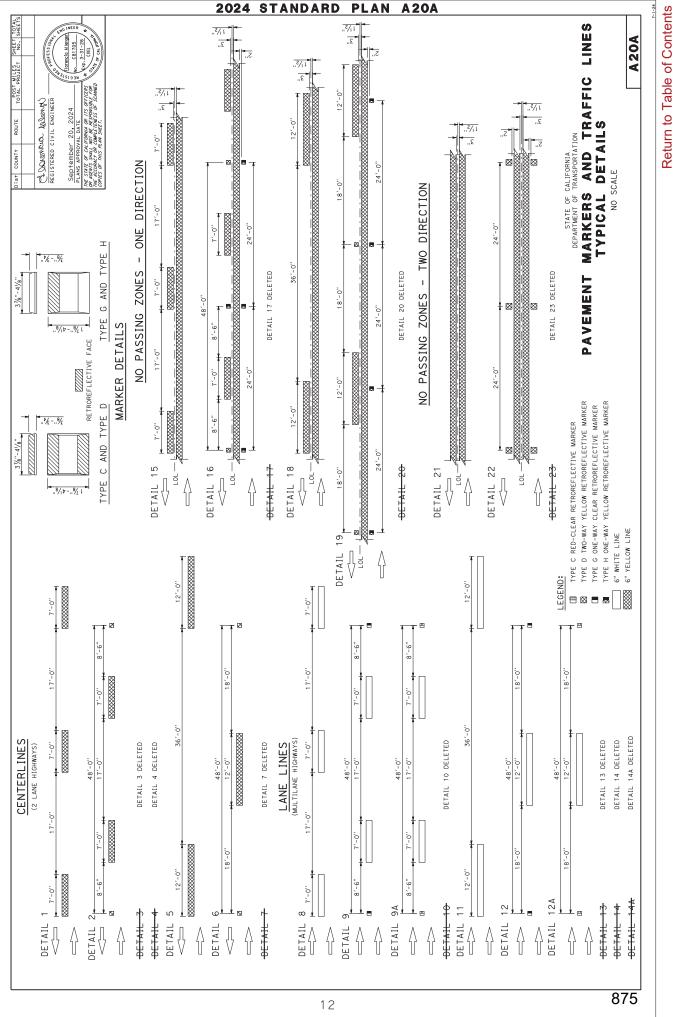
APPENDIX N-22 ADDENDUM 1



APPENDIX N-23 ADDENDUM 1

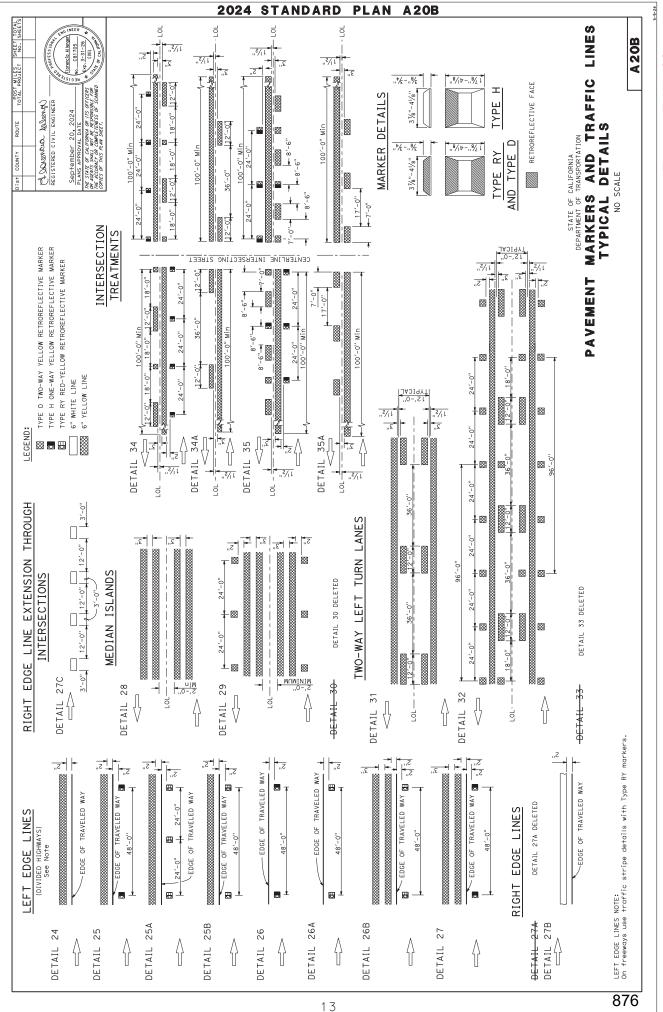


APPENDIX N-24 ADDENDUM 1



APPENDIX N-25

ADDENDUM 1

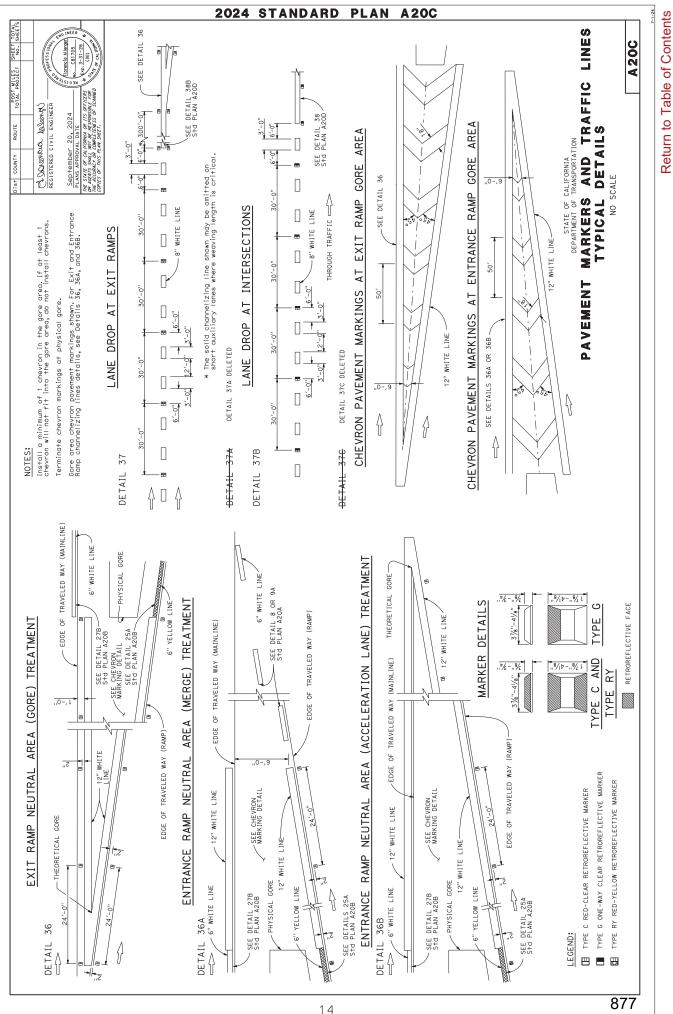


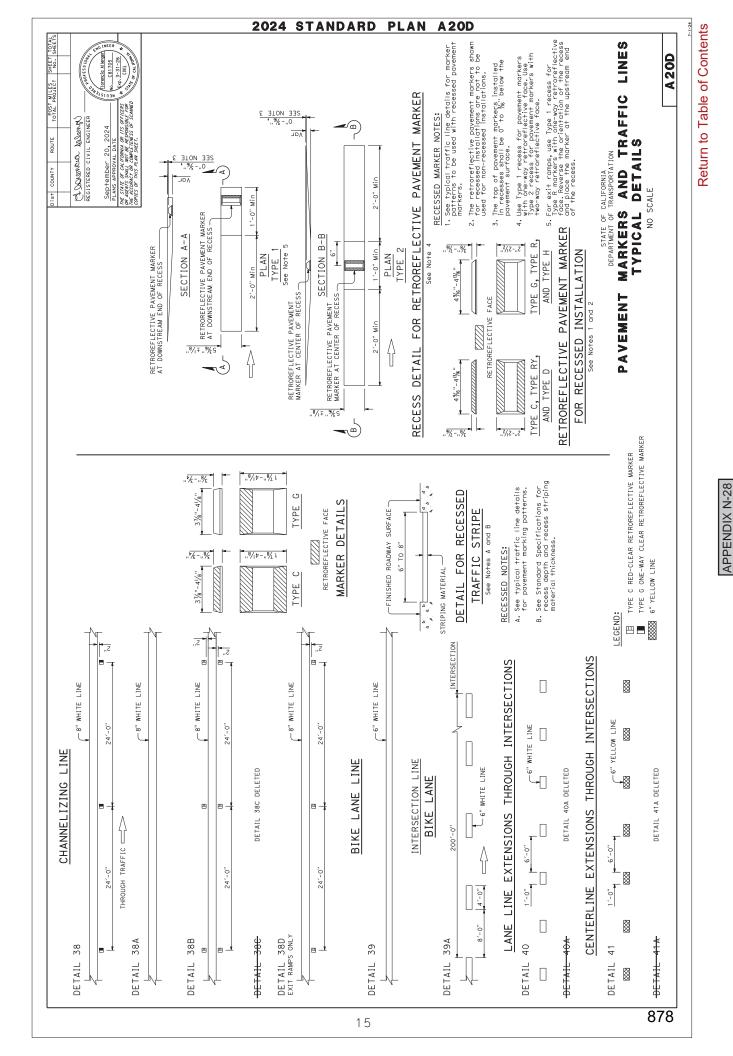
Return to Table of Contents

APPENDIX N-26

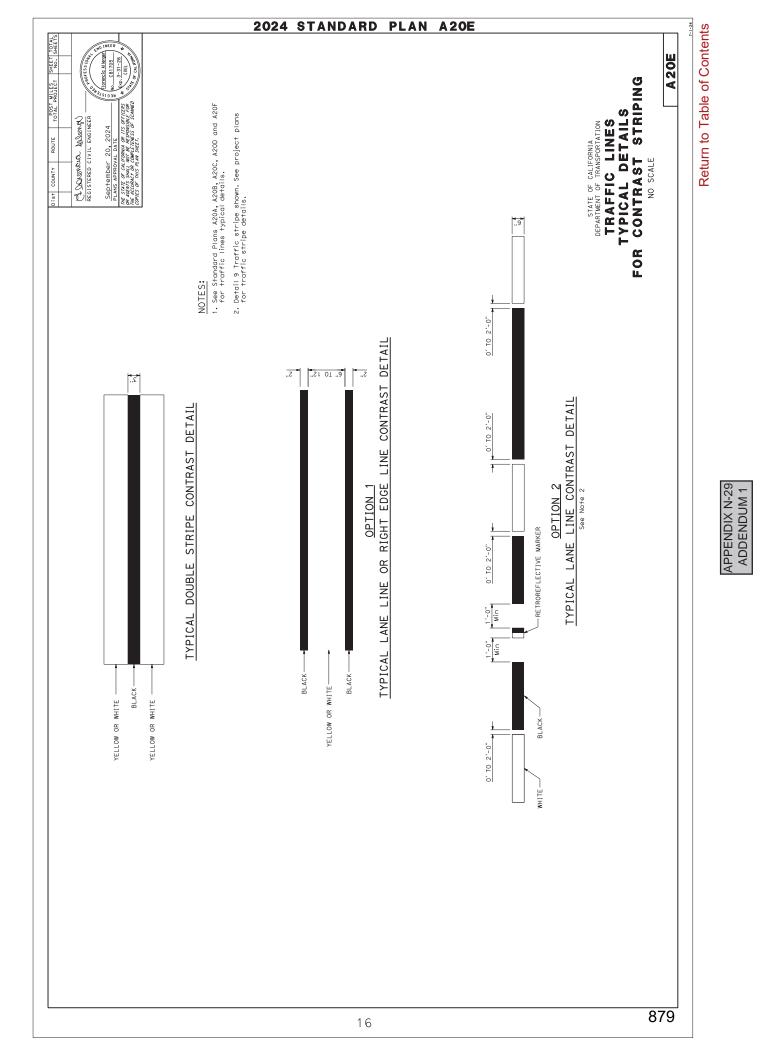
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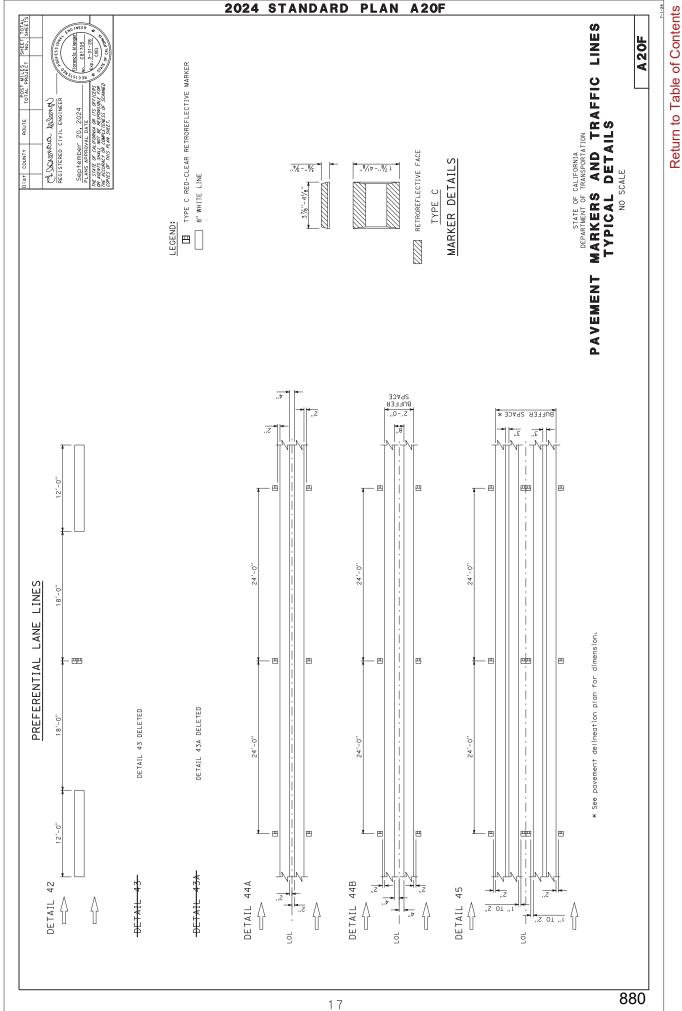


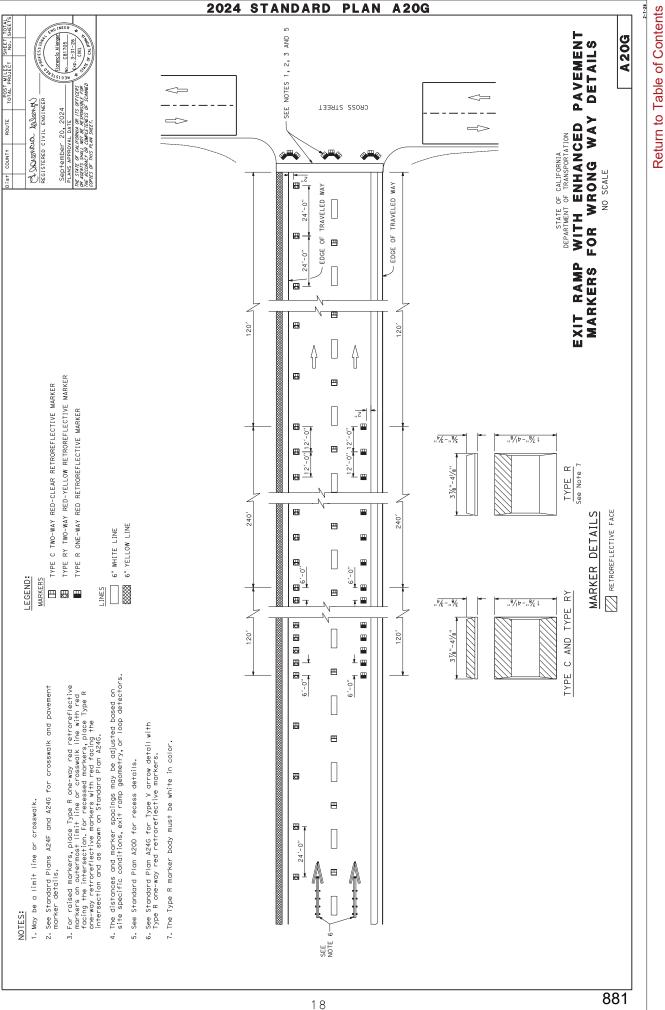


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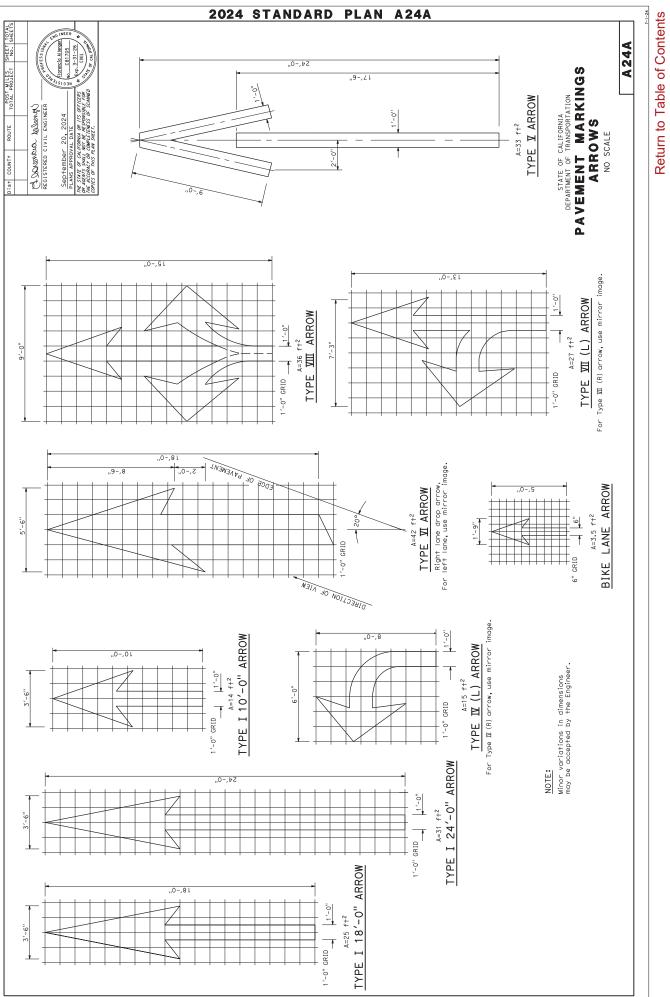






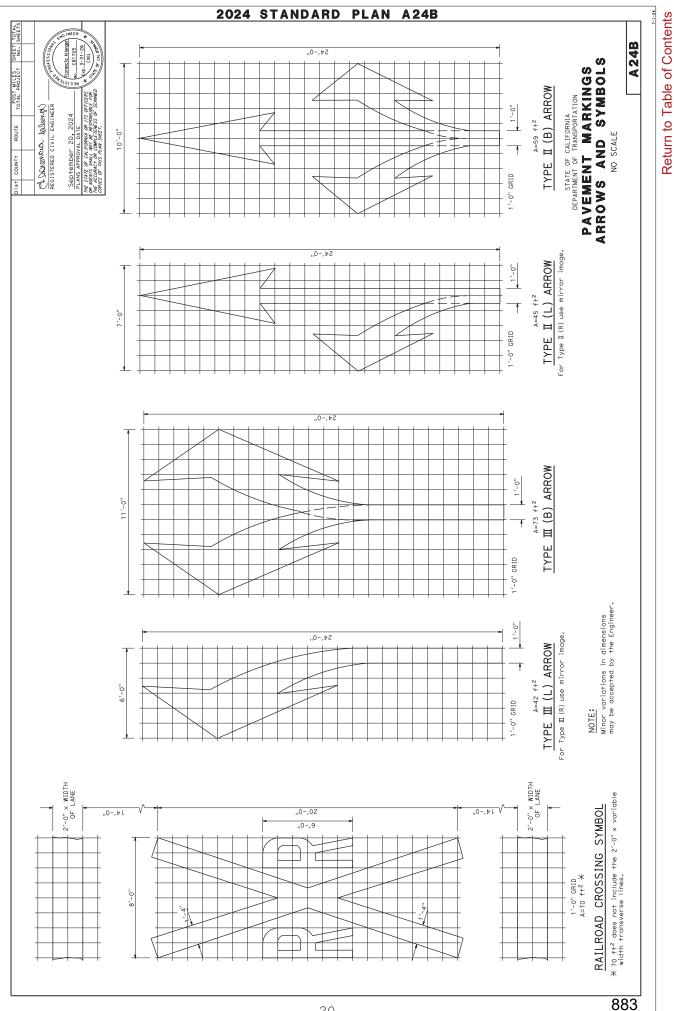


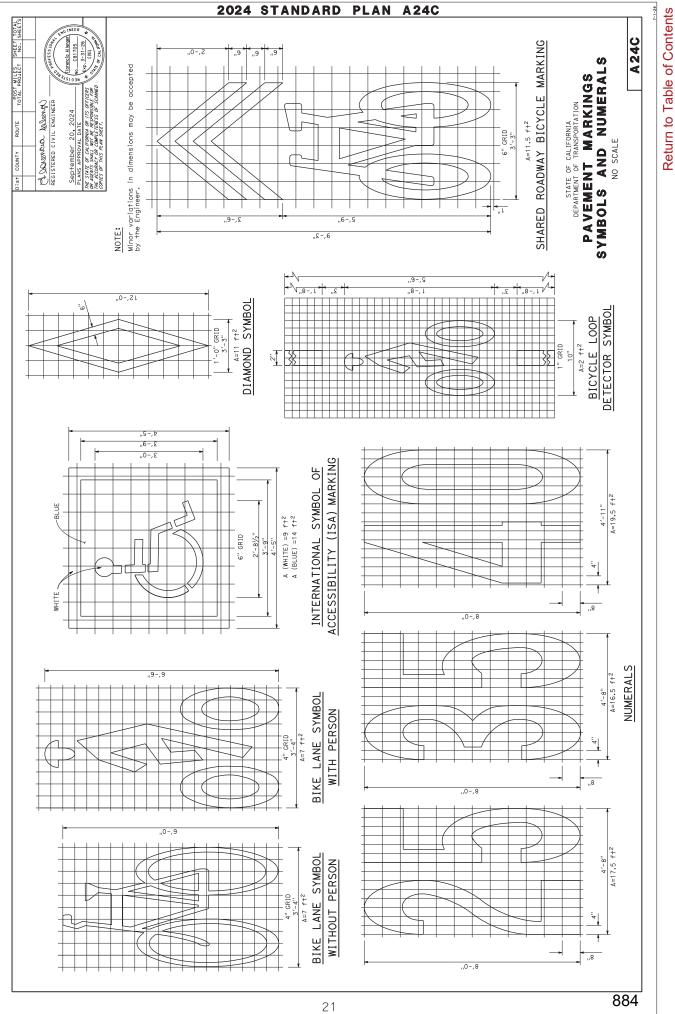
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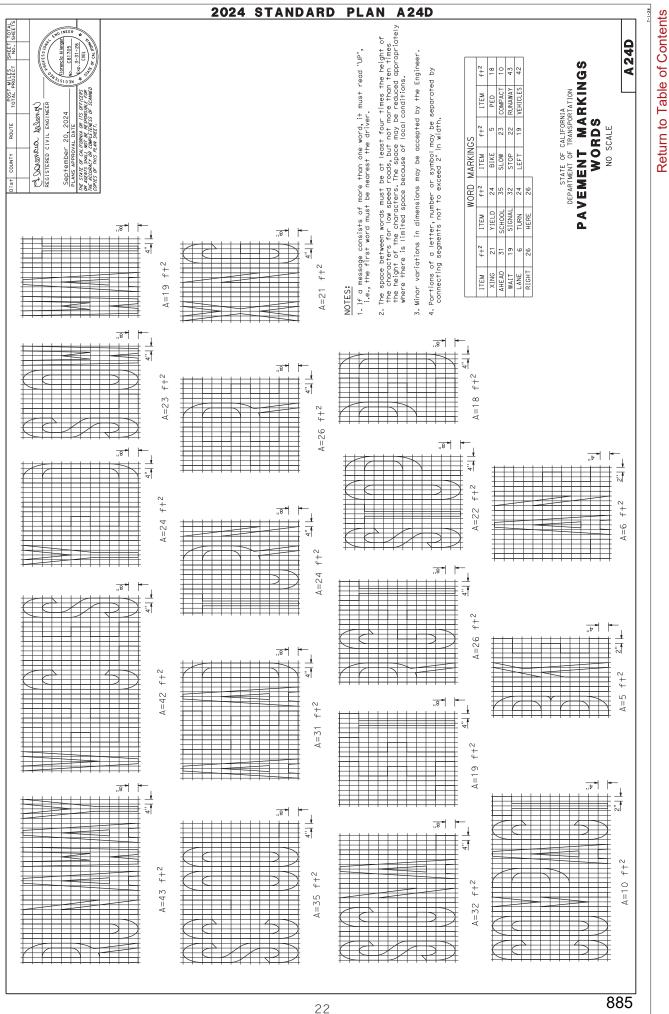
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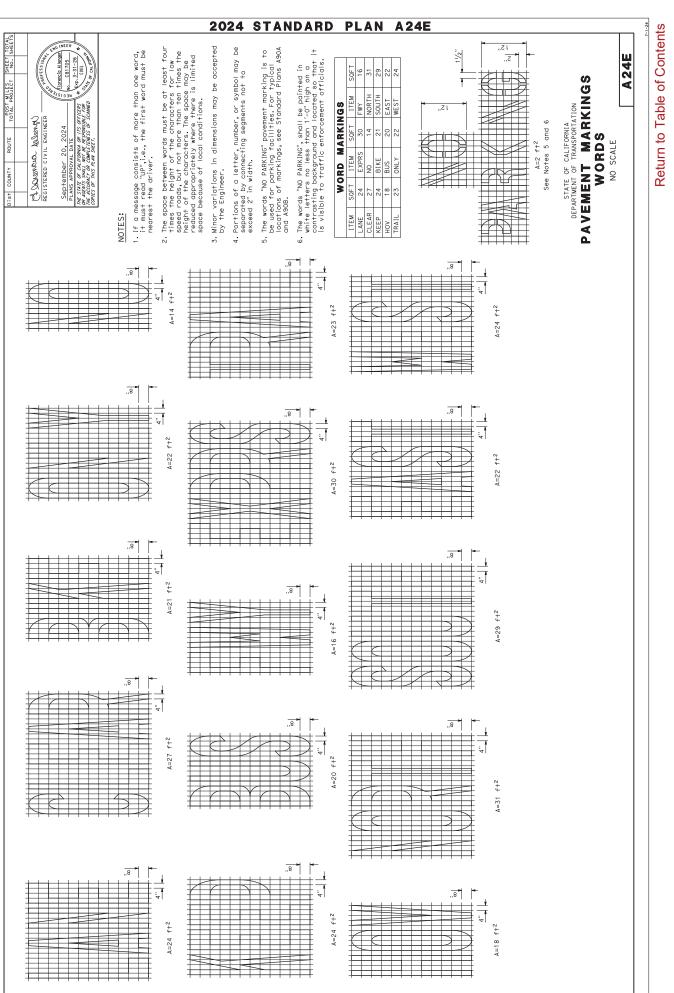


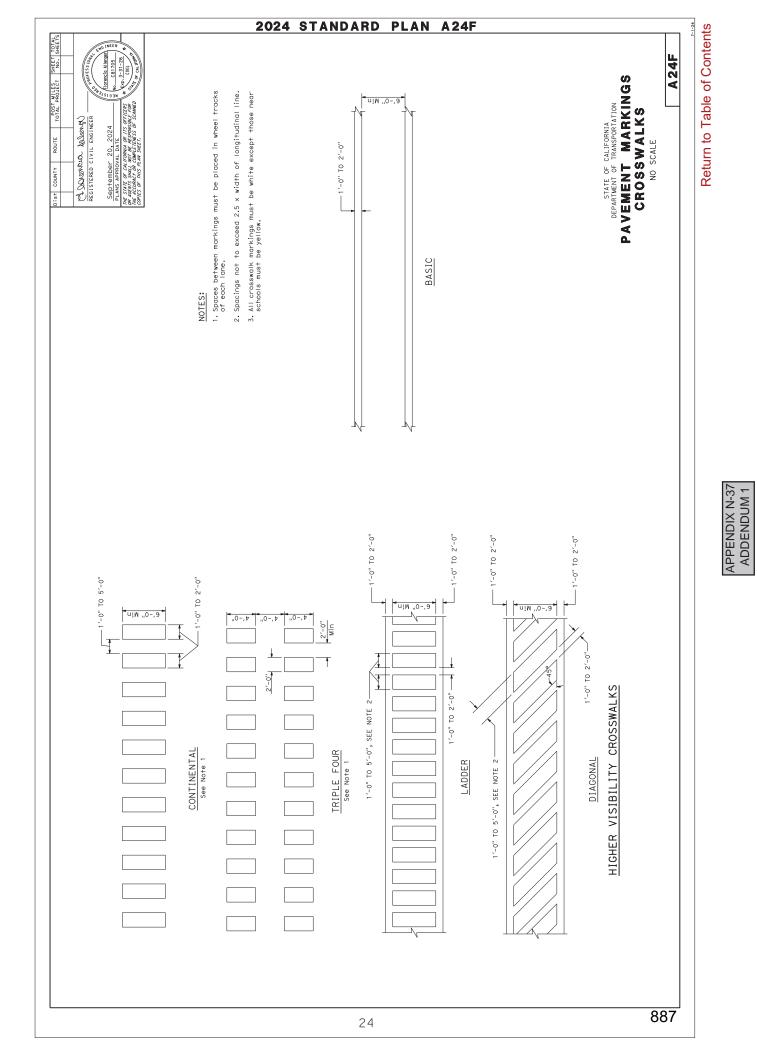
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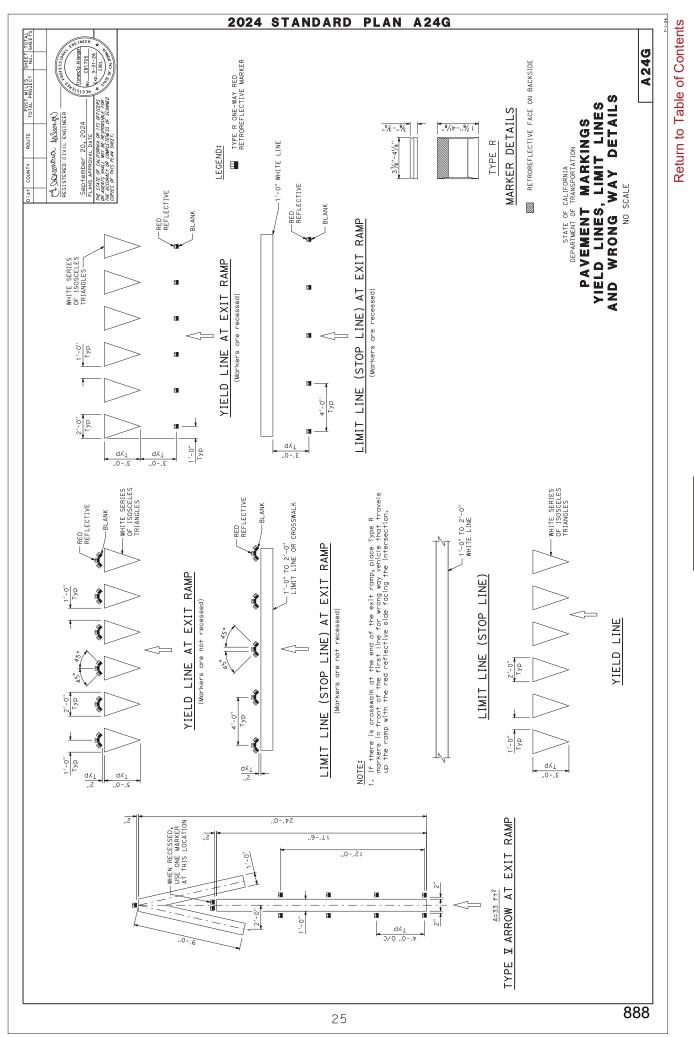


APPENDIX N-35 ADDENDUM 1

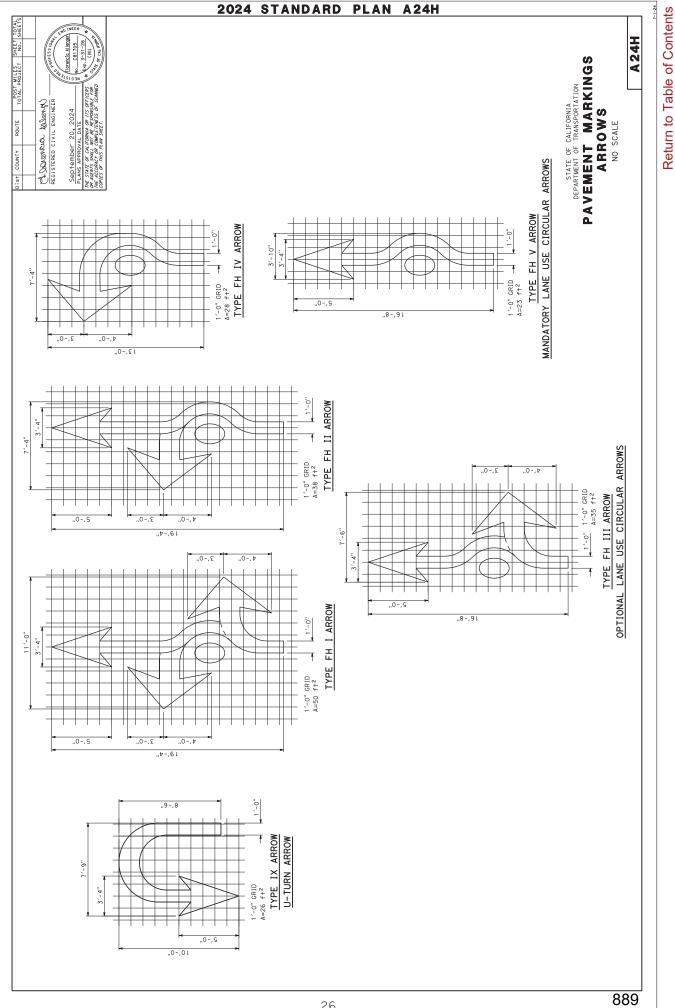




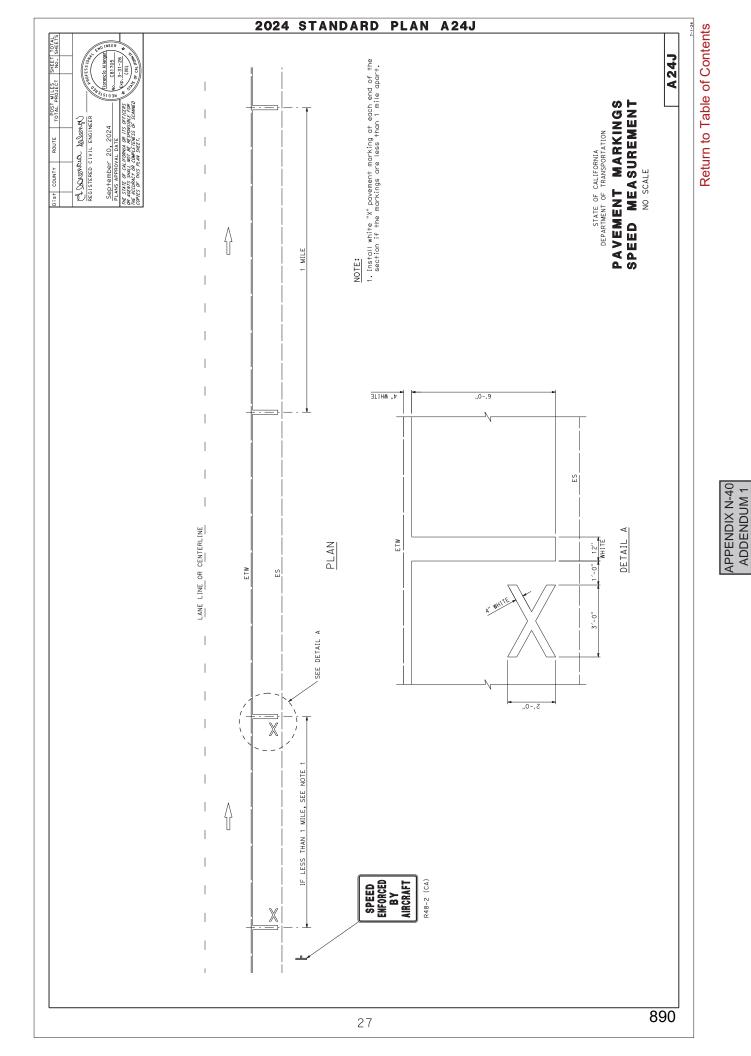


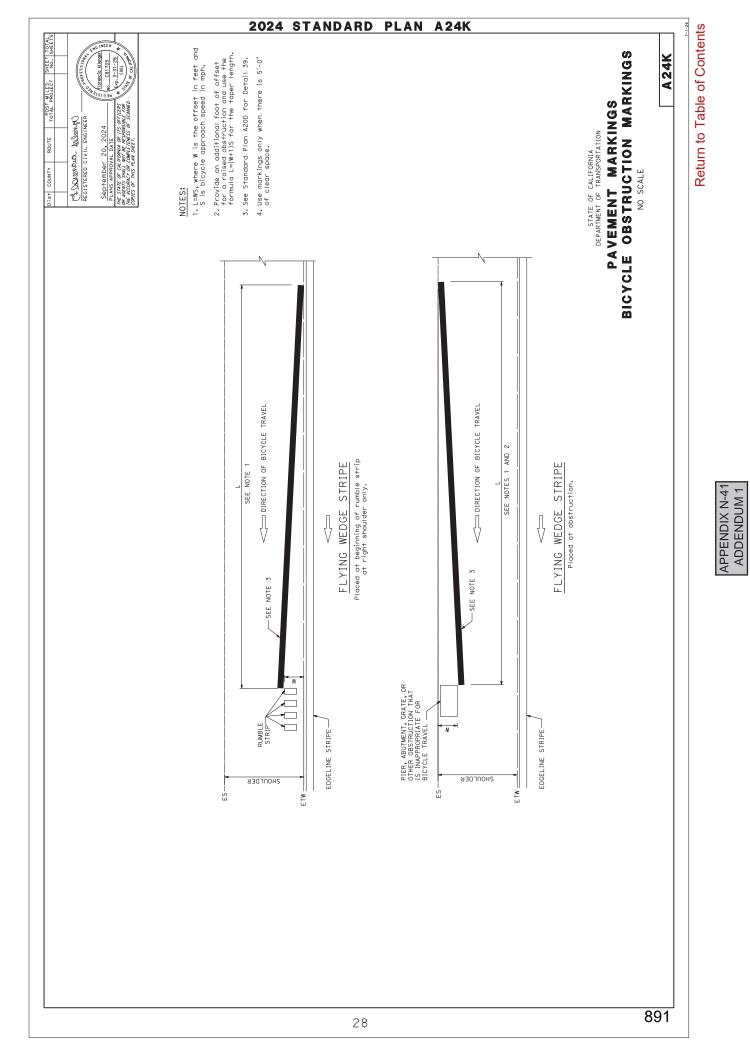


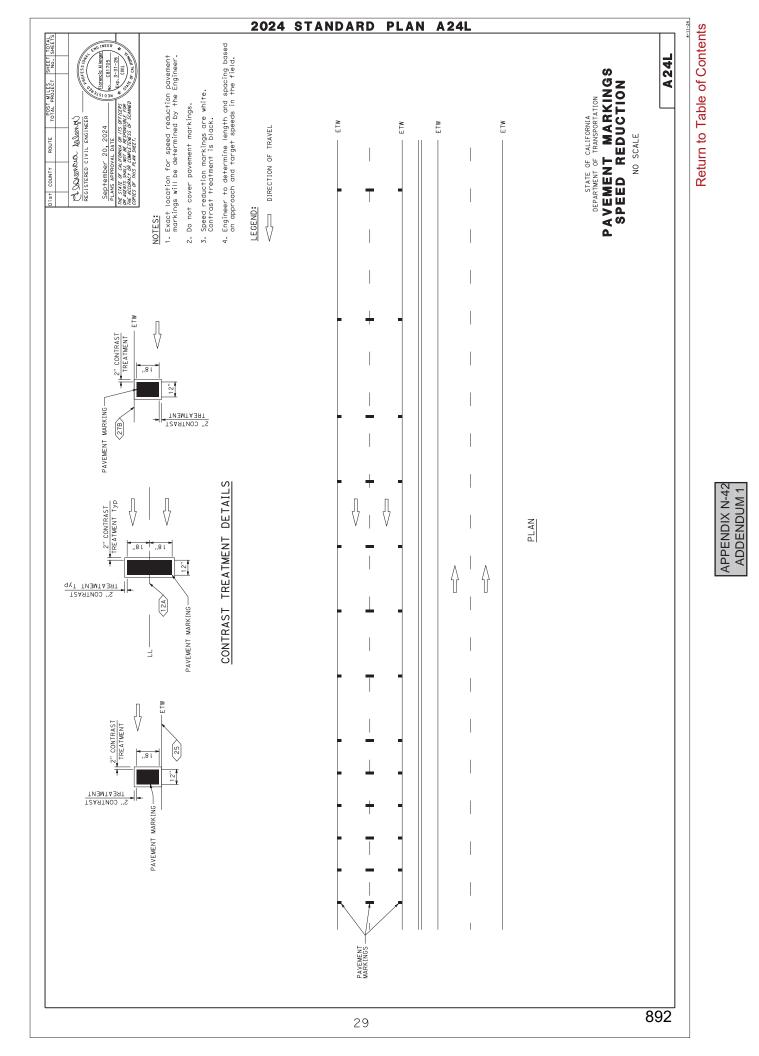
APPENDIX N-38 ADDENDUM 1



APPENDIX N-39 ADDENDUM 1







CITY OF GOLETA

APPENDIX O PREVAILING WAGE RATES

FOR

2025 ARTERIAL PAVEMENT PROJECT

Download State Prevailing Wage Rates from State website

https://www.dir.ca.gov/OPRL/DPreWageDetermination.htm

APPENDIX O
ADDENDUM 1

Back of Cover Sheet

CITY OF GOLETA

APPENDIX P NOTICE OF ASSEMBLY BILL 626

FOR

2025 ARTERIAL PAVEMENT PROJECT

APPENDIX P
ADDENDUM 1

Back of Cover Sheet

NOTICE REGARDING ASSEMBLY BILL 626

Assembly Bill 626 (AB 626), signed into law September 29, 2016, established a new claim resolution process for public works project contracts entered into on or after January 1, 2017. AB 626 is codified in Section 9204 of the California Public Contract Code. Section 9204 remains in effect until January 1, 2020, and as of that date will be repealed unless another statute extends or deletes this sunset date.

Public Contract Code Section 9204 applies to any "claim," as defined in Section 9204, which is presented by the Contractor to the City. Section 9204 defines a "claim" as a separate demand by the Contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following: (1) a time extension, including, without limitation, for relief from damages or penalties for delay assessed by the City; (2) payment by the City of money or damages arising from work done by, or on behalf of, the Contractor pursuant to the Contract and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled; or (3) payment of an amount that is disputed by the City.

If Contractor presents a claim to the City in accordance with the provisions of Public Contract Code Section 9204 (hereafter referred to as a "Claim"), the process specified in Section 9204 will be followed, and the provisions of Section 4-8 (Disputed Claims) and Section 4-9 (Review by Claim Review Committee and Issuance of Decision by Department Director) of the City's Standard Specifications for Public Construction will not apply to the Claim. Contractor's Claim shall comply with the provisions of Section 4-7 (Notice of Claims for Additional Compensation or Damages) of the City's Standard Specifications or Contractor shall give a separate written notice of potential claim that complies with the requirements specified in Section 4-7, except in any case where compliance with the requirements specified in Section 4-7 would conflict with Public Contract Code Section 9204.

Subsection (e) of Public Contract Code Section 9204 requires that the text of Section 9204 or a summary be set forth in the plans or specifications for any public works project that may give rise to a claim under Section 9204.

The full text of Public Contract Code Section 9204 is as follows: 9204.

(a) The Legislature finds and declares that it is in the best interests of the state and its citizens to ensure that all construction business performed on a public works project in the state that is complete and not in dispute is paid in full and in a timely manner.

(b) Notwithstanding any other law, including, but not limited to, Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2, Chapter 10 (commencing with Section 19100) of Part 2, and Article 1.5 (commencing with Section 20104) of Chapter 1 of Part 3, this section shall apply to any claim by a contractor in connection with a public works project.

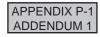
(c) For purposes of this section:

(1) "Claim" means a separate demand by a contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following:

(A) A time extension, including, without limitation, for relief from damages or penalties for delay assessed by a public entity under a contract for a public works project.

(B) Payment by the public entity of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public works project and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled.

(C) Payment of an amount that is disputed by the public entity.



(2) "Contractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who has entered into a direct contract with apublic entity for a public works project.

(3) (A) "Public entity" means, without limitation, except as provided in subparagraph (B), a state agency, department, office, division, bureau, board, or commission, the California State University, the University of California, a city, including a charter city, county, including a charter county, city and county, including a charter city and county, district, special district, public authority, political subdivision, public corporation, or nonprofit transit corporation wholly owned by a public agency and formed to carry out the purposes of the public agency.

(B) "Public entity" shall not include the following:

(i) The Department of Water Resources as to any project under the jurisdiction of that department.

(ii) The Department of Transportation as to any project under the jurisdiction of that department.

(iii) The Department of Parks and Recreation as to any project under the jurisdiction of that department.

(iv) The Department of Corrections and Rehabilitation with respect to any project under its jurisdiction pursuant to Chapter 11 (commencing with Section 7000) of Title 7 of Part 3 of the Penal Code.

(v) The Military Department as to any project under the jurisdiction of that department.

(vi) The Department of General Services as to all other projects.

(vii) The High-Speed Rail Authority.

(4) "Public works project" means the erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind.

(5) "Subcontractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who either is in direct contract with a contractor or is a lower tier subcontractor.

(d) (1) (A) Upon receipt of a claim pursuant to this section, the public entity to which the claim applies shall conduct a reasonable review of the claim and, within a period not to exceed 45 days, shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed. Upon receipt of a claim, a public entity and a contractor may, by mutual agreement, extend the time period provided in this subdivision.

(B) The claimant shall furnish reasonable documentation to support the claim.

(C) If the public entity needs approval from its governing body to provide the claimant a written statement identifying the disputed portion and the undisputed portion of the claim, and the governing body does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a claim sent by registered mail or certified mail, return receipt requested, the public entity shall have up to three days following the next duly publicly noticed meeting of the governing body after the 45-day period, or extension, expires to provide the claimant a written statement identifying the disputed portion and the undisputed portion.

(D) Any payment due on an undisputed portion of the claim shall be processed and made within 60 daysafter the public entity issues its written statement. If the public entity fails to issue a written statement, paragraph (3) shall apply.

(2) (A) If the claimant disputes the public entity's written response, or if the public entity fails to respond to a claim issued pursuant to this section within the time prescribed, the claimant may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute.

(B) Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the claimant sharing the associated costs equally. The public entity and claimant shall mutually agree to a mediator within 10 business days after the



disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures outside this section.

(C) For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.

(D) Unless otherwise agreed to by the public entity and the contractor in writing, the mediation conducted pursuant to this section shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.

(E) This section does not preclude a public entity from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this section does not resolve the parties' dispute.

(3) Failure by the public entity to respond to a claim from a contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this section shall result in the claim being deemed rejected in its entirety. A claim that is denied by reason of the public entity's failure to have responded to a claim, or its failure to otherwise meet the time requirements of this section, shall not constitute an adverse finding with regard to the merits of the claim or the responsibility or qualifications of the claimant.

(4) Amounts not paid in a timely manner as required by this section shall bear interest at 7 percent per annum.

(5) If a subcontractor or a lower tier subcontractor lacks legal standing to assert a claim against a public entity because privity of contract does not exist, the contractor may present to the public entity a claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the contractor present a claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the claim be presented to the public entity shall furnish reasonable documentation to support the claim. Within 45 days of receipt of this written request, the contractor shall notify the subcontractor in writing as to whether the contractor presented the claim to the public entity and, if the original contractor did not present the claim, provide the subcontractor with a statement of the reasons for not having done so.

(e) The text of this section or a summary of it shall be set forth in the plans or specifications for any public works project that may give rise to a claim under this section.

(f) A waiver of the rights granted by this section is void and contrary to public policy, provided, however, that

(1) upon receipt of a claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable; and (2) a public entity may prescribe reasonable change order, claim, and dispute resolution procedures and requirements in addition to the provisions of this section, so long as the contractual provisions do not conflict with or otherwise impair the



timeframes and procedures set forth in this section.

(g) This section applies to contracts entered into on or after January 1, 2017.

(h) Nothing in this section shall impose liability upon a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

(i) This section shall remain in effect only until January 1, 2020, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2020, deletes or extends that date.

APPENDIX P-4 ADDENDUM 1
ADDENDUM 1

CITY OF GOLETA

APPENDIX Q POST CONSTRUCTION WASTE & RECYCLING SUMMARY

FOR

2025 ARTERIAL PAVEMENT PROJECT

APPENDIX Q
ADDENDUM 1

Back of Cover Sheet



Public Works Department

Construction and Demolition Debris Recycling Program

Waste Reduction and Recycling Plan Guidance Document

March 2019





Getting Started with your Construction and Demolition Debris Recycling Program and the Post Construction Waste Reduction & Recycling Summary Report (WRRS)

Step 1 – Determine whether your project is subject to this requirement

The following regulated projects must complete and submit a Certificate of Implementation and a Waste Reduction and Recycling Summary Report:

- 1. All Commercial additions or alterations;
- 2. All Residential additions or alterations that add floor space/increase size.
- 3. All Demolition of any structure requiring a permit.
- 4. All New Construction (pursuant to the California Green Building Code)

Step 2 – Complete a Certificate Of Implementation:

• Submit to City for permit file.

Step 3 – Complete and submit a Post-Construction Waste Reduction & Recycling Summary Report (WRRS)

- Submit the Post-Construction WRRS report to the City for review. Package to include WRRS form, weight tickets, etc.
- WRRS shall be submitted at least five (5) days prior to final inspection and issuance of certificate of occupancy or temporary certificate of occupancy.
- A final Certificate of Occupancy cannot be issued until these requirements have been satisfied.





Certificate of Implementation City's Implementation of State Law:

Construction and Demolition (C&D) Debris Recycling Program State of California Green Building Code (CalGreen)

The California Green Building Code: Effective January 1, 2017, the 2016 CalGreen requires that all Commercial additions or alterations, all Residential additions or alterations that add floor space/increase size, all Demolition of any structure requiring a permit and all New Construction (pursuant to the California Green Building Code) are required to divert 65% of the construction materials generated during construction of the project. The City has therefore implemented a mandatory Construction and Demolition (C&D) Debris Recycling Program to divert at least 65% of these highly recoverable materials from the landfill in accordance with CalGreen. This Program shall as defined above.

Property Address	Project Number	Project Number (e.g. CDP, APR, OC, Permit)				
Owner/Developer Name		Phone#				
E-mail address:						
Proposed Solid Waste Hauler:		vriting.				
AFFIDAVIT OF PROJECT TYPE: (check one The project involves new construction. The project involves demolition.	The project involves con	mmercial addition/alteration. idential addition/alteration.				
For all projects: A Summary Report shall be s was met to comply with CalGreen. Sign both t						
Signature	Printed Name	Date				

Property Owner/ Authorized Agent (circle which) Licensed Contractor, License No._____

CERTIFICATION OF IMPLEMENTATION: C&D DEBRIS RECYCLING PROGRAM

This is to certify a C&D Recycling Program for the above-referenced address will be implemented to divert a minimum of 65% and a Summary Report (detailing how the diversion was met) shall be submitted to the City upon project completion, prior to obtaining a Certificate of Occupancy.

I declare that I have read and understand the requirements of the City's C&D Debris Recycling Program and that the foregoing is true and correct.

Signature

Printed Name

Date

Property Owner/ Authorized Agent (circle which) Licensed Contractor, License No.

3





Post-Construction Waste Reduction & Recycling Summary Report (WRRS)

Pursuant to the California Green Building Code this form must be completed for the following types of projects:

- All Commercial additions or alterations;
- All Residential additions or alterations that add floor space/increase size.
- All Demolition of any structure requiring a permit.
- All New Construction

NOTE: Completed WRRS Reports shall be submitted to the City of Goleta Public Counter <u>5 days prior to Final</u> <u>Inspection</u> and issuance of Certificate of Occupancy or Temporary Certificate of Occupancy. If you have questions, please call: 805-961-7575.

Building Permit#:				Date:			
Pr	oject Address (Include	floor, suite, etc.):				_	
Сс	ntact Name:			Title:			
Сс	mpany Name:						
Сс	ntact Mailing Address	::					
Ph	one:		Fax:				
En	nail:						
1.	Type of Project:	New Construction	Addition/Alteration				
2.	Type of Building:	Commercial	Single Family Resi	dence	Apartment/Condominium		
3.	Tenant Improvement:	∐Yes	⊡No				
4.	Size of Project:	;	sq. ft. Construction Va	luation S	\$		
5.	Project Completion Da	te:					
6.	Briefly state how solid	waste material was ha	ndled on your job site t	o ensur	e salvage/reuse or recycling.		
						—	
			ease do not write below this				
Pla	n approve by:				Title:		
Sig	nature:				Date:		
			4				



Post-Construction Waste Reduction & Recycling Summary Report

Diversion Requirement: Reduce quantity of materials disposed at landfills by 65% or more.

Column A: List estimated quantities of waste for each material type (in tons). To convert material quantities to tons, use the Materials Conversion Worksheet provided in your packet.
Columns B, C, D: List estimated quantities reused, recycled, or disposed.
Column E: State the name of all vendors or facilities to be used to reuse, recycle or dispose of material listed. See example below for cases where more than one facility will be used for a particular material type.
Column Totals: Add up all quantities listed in Column A. Do the same for Columns B, C and D.

Building Permit#:

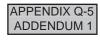
Project Address:

Waste Reduction & Recycling Summary REPORT (WRRS Report)

Material Handling Methods - Indicate quantities (in tons only) for each material listed.							
	<u>A</u>	B	<u>C</u>	<u>D</u>	<u>E</u>		
Material Type	Total Tons	Quantity	Recycling	Estimated	Anticipated Material		
Material Type	Generated	Salvaged or		Disposal	Destination(s)		
	(A=B+C+D)	Reused			(R): Recycled; (D): Disposal		
Example: Cardboard	2 tons		1.5	.5	(R) MarBorg (D) Tajiguas Landfill		
Asphalt & Concrete							
Brick/Masonry/Tile							
Building Materials (doors, windows, fixtures, etc.)							
Carpet							
Carpet padding/Foam							
Cardboard							
Ceiling tile (acoustic)							
Dirt							
Drywall (used)							
Drywall (new, unpainted sheets or scrap)							
Landscape Debris (brush, trees, stumps, etc.)							
Scrap metal							
Unpainted Wood and Pallets							
Garbage/Trash							
Other							
Recycled mixed debris							
Column Totals							

7. To determine if the required 65% project waste reduction will be met, complete the following with the column totals:

(B	+ C) / A	=		x 100 =		%
8. Is the	percentage listed in	#7 greater than or equal to	<u>65%</u> ? <u></u> YES	⊡NO -	If "NO" please explai	in why:	
9. Print N	Name:	Sig	gnature:		Date:	/	/



For Reference Only MATERIALS CONVERSION WORKSHEET - SEPARATED MATERIALS¹ (Total Tons Generated)

This worksheet lists materials typically generated from a construction or demolition project and provides formulas for converting common units (i.e. cubic yards, square feet and board feet) to tons. It can be used for preparing your WMP Report, which require that quantities be provided in tons. Step 1 - For your WMP, enter estimated quantity for each applicable material in Column I, based on units of cubic yards (cy), cubic foot (cu ft),square feet (sq ft), or board foot (bd ft). For your Summary Report, use the actual quantities, based on weight tags, gate receipts, or other documents. Step 2 - Multiply by Tons/Unit figure listed in Worksheet Column II. Enter the result for each material in Column III. Step 3 - Enter quantities for each separated material from Column C on the Worksheet into the corresponding section of Column A of your WMP Report.

Material C	Category	Column I <u>Volume</u>	<u>Units</u>	<u>x</u>	Column II <u>Tons/unit</u>	=	Column III <u>Tons</u>
Asphalt/Concrete	Asphalt (broken)		су	х	.7	=	
	Concrete (broken)		CV	x	.9		
	Concrete (solid slab)		cy	х	1.2975		
/					_		
Brick/Masonry/Tile	Brick (broken)			Х	.7		
				Х	1.512		
				Х		=	
	Tile		_sq ft	Х	.00175		
Building Materials (doors,	windows, cabinets, etc.)		су	х	.15	=	
Cardboard (flat)	-		су	х	.05	=	
Carpet	(by square foot)		sq ft	х	0005	_	
Carper	(by square foot) (by cubic yard)		_ Sy It	x	.0005	_	
	(by cubic yard)		_ Cy	^	.0	-	
Carpet Padding/Foam	-		sq ft	х	.000125	=	
Ceiling Tiles	(whole - palletized)		sq ft	х	.0003	=	
Ū	(loose)		су	х	.0875	=	
² Dirt	-		cu ft	x	.3852		
Drywall (new or used)	1/2" (by square foot)		sa ft	х	.0008	=	
	5/8" (by square foot)		sa ft	x			
Drywall (demo/used)	(by cubic yard)		су	х	.25	=	
Garbage/Trash			су	х			
Landscape Debris (brush trees, etc.)			су	x	.15	=	
Scrap Metal	-		су	х	.453	=	
Unpainted Wood & Pallets	s (by board food)		bd ft	х	.001375	=	
•	(by cubic yard)		су	Х	.15	=	
³ Other	()) · · · · · · · · · · · · · · · · ·		_	х	-	=	

cy = cubic yards cu ft = cubic foot sq ft = square foot bd ft = board foot

Total Tons =

¹ For additional conversion factors go to https://www2.calrecycle.ca.gov/Search/?q=conversion+factors

 2 CalRecycle (factor averaged between 5 different types of dirt and converted to tons for consistency)

³ For additional conversion factors go to https://www2.calrecycle.ca.gov/Search/?q=conversion+factors



Sources:

^{1:} City of Oakland PWD

ATTACHMENT 6

2025 Arterial Pavement Project Plans