**Agenda Item D.2**
**DISCUSSION/ACTION ITEM**
**Meeting Date: August 19, 2025**

**TO:** Mayor and Councilmembers

**SUBMITTED BY:** Matthew R. Fore, General Services Director

**SUBJECT:** Review of the Design for the Goleta Valley Library ADA, Safety, and Building Improvement Project (CIP No. 9130) and Authorization to Advertise Construction Bid

## RECOMMENDATION:

A. Receive a presentation on the proposed design for the Goleta Valley Library ADA, Safety, and Building Improvements Project; and

B. Authorize Staff to advertise a notice inviting construction bids for the Goleta Valley Library ADA, Safety, and Building Improvements Project.

## BACKGROUND:

In October of 2023, the City received a $4.2M Building Forward Library Facilities Improvement Program grant (Grant) from the California State Library to make several infrastructure improvements to the Goleta Valley Library (Library). On December 19, 2023, Council adopted Resolution No. 23-75, authorizing the City Manager to accept the grant funds and execute the grant agreement.

On May 21, 2024, Council authorized the City Manager to execute an agreement with Jeffrey Miller Architect and Design (JMAD) for Architectural and Engineering services for the Goleta Valley Library ADA, Safety, and Building Improvements Project (Project) and to accept a donation of $250,000 from the Friends of the Goleta Valley Library to help fund the City's grant match for the Americans with Disabilities Act (ADA) restroom improvements portion of the Project. On May 6, 2025, Council authorized the City Manager to execute an agreement with Kitchell/CEM for Construction Management, Inspection, and Testing services. On June 17, 2025, Council authorized Amendment No. 1 to the Agreement with JMAD to cover the cost of required design modifications triggered by unforeseen site conditions and to expand the scope of work to include interior design work that is outside of the scope of the Grant.

## DISCUSSION:

The Project will result in the following improvements to the Library:

- ADA Path of Travel and Restrooms Upgrades
- Modernization and Replacement of Heating, Ventilation, and Air Conditioning (HVAC) Systems
- Life Safety and Security Installation and Upgrades
- Light-Emitting Diode (LED) Lighting Retrofits
- Door/Window Replacements and Upgrades
- Fascia Repair and Exterior Paint

In addition to the Grant-covered work, Neighborhood Services has commissioned JMAD to provide conceptual interior design services. The interior design is informed by the visioning survey released to the public in July 2025. The results of the visioning survey were shared with the Library Advisory Commission (LAC) at its August 4, 2025, meeting. Overall, input from more than 700 patrons will guide the interior design for upcoming library renovations, with top preferences including modern seating, interactive features for children, and quiet study areas. Respondents highlighted the importance of preserving the library's welcoming atmosphere, extensive physical collection, and all-ages programming, while enhancing comfort, accessibility, and flexibility for the future. Due to timing, the initial project plans do not include the interior design or furnishing plan; the plan set for bidding is focused on the grant-funded infrastructure and ADA improvements. Staff will return to Council for the interior design and furnishing plan once finalized, incorporating feedback from stakeholders and community members.

Included in this report is an overview of the Project design and planned interior and exterior improvements to the facility that will be presented by City Staff and representatives from JMAD, which is included as Attachment 2. A similar presentation was provided to the LAC on March 3, 2025.

As stated in previous Council Agenda Reports, the Project must be concluded by June 30, 2027. While possible to meet, this timeline is very tight and does not leave room for delay. For this reason, Staff is requesting Council authorization to advertise the notice inviting construction bids based upon the Issued Permit Plan Set, which is included as Attachment 1. Following the bidding process, Staff will return to Council to request that Council: 1) formally adopt the final Conformed Set of Plans for Construction, which will include all revisions, addenda, and clarifications made during the bidding process, construction specifications, and working details; 2) award the construction contract to the lowest responsive and responsible bidder; and 3) adopt findings pursuant to the California Environmental Quality Act.

**GOLETA STRATEGIC PLAN:**

**City-Wide Initiative:** 5 Strengthen Infrastructure

**Strategic Goal:** 5.4 Protect and maintain our City-owned facilities and critical operational assets.

**FISCAL IMPACTS:**

There are no immediate fiscal impacts associated with this Council item, as any funding adjustments will depend on the bids received and will be presented to Council at the time of contract award. The Project budget is shown in the table below.

| **Total Est. Project Cost** | **$7,528,200** |
|---|---|
| | |
| **Funding Sources** | **Budget** |
| General Fund | $2,432,340 |
| County Per Capita | $180,000 |
| State Grant | $4,278,560 |
| Library Services | $180,000 |
| **Total Current Budget** | **$7,070,900** |
| **Estimated (Deficit)/Surplus** | **($457,300)** |

The total project budget is currently at $7,070,900, which includes Council's Fiscal Year 2025-26 appropriation of $1,542,700 from the General Fund. Based on the current estimated total project cost of $7,528,200, there is a projected budget shortfall of $457,300. Therefore, depending upon bids received, staff may request additional appropriations from Council that may be necessary to construct the project. As discussed during the June 17, 2025, budget adoption meeting, potential funding strategies to address any shortfalls with this project will include evaluating eligible Development Impact Fees and special library funds, as well as prioritizing any available one-time General Fund resources.

**LEGAL REVIEW BY:** Isaac Rosen, City Attorney

**APPROVED BY:** Robert Nisbet, City Manager

**ATTACHMENTS:**

1. Issued Permit Plan Set for the Goleta Valley Library ADA, Safety, and Building Improvements Project
2. PowerPoint Presentation

# ATTACHMENT 1

Issued Permit Plan Set for the Goleta Valley Library ADA, Safety, and Building Improvements Project

# GOLETA VALLEY LIBRARY
## ISSUED FOR PERMIT
## March 20th, 2025


JM|A+D
JEFFREY MILLER, AIA
LICENSE No.: C-37366


| | |
|---|---|
| **OWNERS:** | CITY OF GOLETA<br>500 N FAIRVIEW AVENUE, GOLETA, CA 93117 |
| **CIVIL AND STRUCTURAL ENGINEER:** | KPFF<br>700 SOUTH FLOWER STREET, SUITE 2000+2100<br>LOS ANGELES, CA 90017<br>(213) 418-0201 |
| **ARCHITECT:** | JEFFREY MILLER ARCHITECTURE AND DESIGN<br>516 N SEPULVEDA BLVD, SUITE 201<br>MANHATTAN BEACH, CA 90266<br>(310) 684-3550 |
| **MECHANIAL, ELECTRICAL, AND PLUMBING ENGINEERS:** | INTERFACE<br>801 S FIGUEROA STREET, SUITE 2750<br>LOS ANGELES, CA 90017<br>(213) 694-3434 |
| **LANDSCAPE:** | UPLA STUDIO<br>LOS ANGELES, CA<br>(424) 385-8721 |
| **FIRE ALARM, FIRE LIFE SAFETY, DISABLED ACCESS:** | JENSEN HUGHES<br>1000 WILSHIRE BOULEVARD, SUITE 250<br>LOS ANGELES, CA 90017<br>(213) 412-1400 |
| **ADDRESS:** | 500 N FAIRVIEW AVENUE, GOLETA, CA 93117 |
| **APN NO:** | 069-090-056 |
| **BASIS OF BEARING:** | THE BEARING OF N00°07'25" W ALONG THE CENTERLINE OF FAIRVIEW AVENUE AS SHOWN ON TRACT NO. 13,526, AS RECORDED IN MAP BOOK 150, PAGES 77 & 78, WAS TAKEN AS THE BASIS OF BEARINGS FOR THE SURVEY. |
| **BLOCK:** | |
| **OCCUPANCY:** | EXISTING TYPE A-3 , TYPE U AND TYPE B ; NO CHANGE IN OCCUPANCY |
| **SPRINKLERED:** | YES |
| **CONSTRUCTION TYPE:** | VB |

**FIRE RESISTIVE REQUIREMENTS:**

| | |
|---|---|
| PRIMARY STRUCTURAL FRAME | 0 |
| EXTERIOR BEARING WALLS | 0 |
| INTERIOR BEARING WALLS | 0 |
| NONBEARING EXTERIOR WALLS | 0 |
| NONBEARING INTERIOR WALLS | 0 |
| FLOOR CONSTRUCTION | 0 |
| ROOF CONSTRUCTION | 0 |

**APPLICABLE CODES:**

2022 TITLE 24 CODE BATTERY AS MODIFIED BY SANTA BARBARA COUNTY
2010 ACA STANDARDS FOR ACCESSIBLE DESIGN AND CITY MUNICIPAL CODES
2022 SANTA BARBARA COUNTY FIRE CODE WITH AMENDMENTS
2022 CALIFORNIA ELECTRICAL CODE (CEC)
2022 CALIFORNIA MECHANICAL CODE (CMC)
2022 CALIFORNIA PLUMBING CODE (CPC)
2022 CALIFORNIA ENERGY CODE (CENC)
2022 CALIFORNIA HISTORICAL BUILDING CODE (CHBC)
2022 CALIFORNIA FIRE CODE (CFC)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC)
SANTA BARBARA COUNTY BUILDING CODE

ORDINANCE 25-01 AMENDMENTS TO BUILDING CODES
ORDINANCE 5170 AMENDMENTS TO FIRE CODES

## DEFERRED SUBMITTALS

FIRE SPRINKLERS / SUPPRESSION
HANDRAILS/GUARDRAILS
TOILET PARTITION SUPPORT STEEL

## PROJECT SUMMARY

**RENOVATION OF EXISTING SINGLE STORY BUILDING FOR:**

1. ADA RESTROOM RENOVATIONS AND UPGRADES
2. MODERNIZATION AND REPLACEMENT OF HVAC SYSTEM
3. ADA PATH OF TRAVEL UPGRADES
4. LIFE SAFETY AND SECURITY UPGRADES
5. LED LIGHTING RETROFITS
6. DOORS/WINDOWS REPLACEMENTS AND UPGRADES
7. FASCIA REPAIR AND EXTERIOR PAINT

## AREA SUMMARY

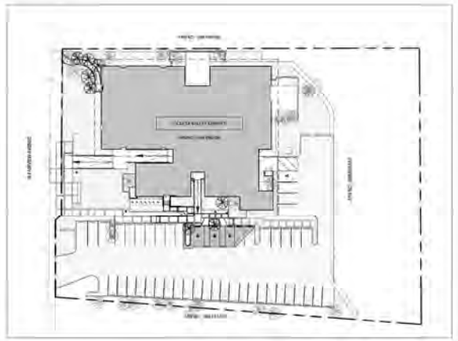
SITE AREA: 68,266 SF

BUILDING AREA: 15,675 SF

AREA OF MODIFICATION: 6,768 SF

REFER TO A010 FOR ADDITIONAL AREA INFORMATION

## SITE MAP



## VICINITY MAP

DECLARATION OF DESIGN ENGINEER OF RECORD

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING KNOWLEDGE AND EXPERTISE AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THOSE IMPROVEMENTS. I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH CHECK DOES NOT, THEREFORE RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS. I ALSO HEREBY DECLARE THAT I HAVE COMPARED THOSE PLANS WITH ALL APPLICABLE ADA TITLE II REQUIREMENTS FOR DISABILITY ACCESS FOR THIS PROJECT AND THESE PLANS ARE IN FULL COMPLIANCE WITH THOSE REQUIREMENTS.

SIGNATURE — 19 MAR 25 DATE


JM|A+D
J MILLER ARCHITECTURE & DESIGN
516 N SEPULVEDA BLVD SUITE 201
MANHATTAN BEACH, CA 90266
p 310.684.3550
e info@JMADstudio.com

## GENERAL NOTES

1. GRID LAYOUT AND LOCATION OF LIGHT FIXTURES, DIFFUSERS AND CEILING MOUNTED DEVICES ON THE ARCHITECTURAL REFLECTED CEILING DRAWINGS GOVERN OVER ELECTRICAL, SECURITY, TELECOM AND MECHANICAL DRAWINGS QUANTITY GOVERNED BY MEP.

2. PLAN DIMENSIONS ARE TO FACE OF FINISH, U.O.N. SYMMETRICAL AREAS DIMENSIONED ONE SIDE ONLY WITH OTHER SIDE OPPOSITE HAND, UNO. PARTITIONS SHOWN ON COLUMN LINE ARE TO BE CENTERED ON COLUMN LINE, U.O.N.

3. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING FIXTURE TYPES, SMOKE DETECTORS, SPEAKERS AND EXIT SIGN SIZE AND TYPES.

4. PROJECT DATUM IS 1ST FLOOR = 0'-0" = NORTH AMERICAN VERTICAL DATUM (NAVD) 106'-9".
ALL FLOOR ELEVATIONS ARE REFERENCE FLOOR ELEVATIONS.
RFE IS TOP OF STRUCTURAL SLAB UNLESS FINISH MATERIAL (TILE, STONE, WOOD, ETC) IS THICKER THAN 1/2". RFE IS TOP OF FINISH FLOOR IF FINISH MATERIAL IS THICKER THAN 1/2".

5. CONCRETE HOUSEKEEPING PADS ARE SHOWN WITH THE MECHANICAL, ELECTRICAL, PLUMBING, TELECOMMUNICATIONS, AUDIO/VISUAL AND SECURITY EQUIPMENT.

6. RATED PARTITIONS TO OFFSET AS REQUIRED TO ENGAGE FRE OR FIRE / SMOKE DAMPERS AS REQUIRED AND DIAGRAMMATICALLY SHOWN ON DETAIL.

7. R.C.P'S INDICATE LOCATION OF SPRINKLER HEADS IN PUBLIC SPACES ONLY. CONTRACTOR RESPONSIBLE FOR MEETING ALL QUANTITY AND CODE REQUIREMENTS.

8. SIGNAGE LOCATIONS AS SHOWN ON DRAWINGS. CONTRACTOR RESPONSIBLE FOR PROVIDING BACKING AS REQUIRED TO SUPPORT SIGNAGE.

9. REFER TO STRUCTURAL DRAWINGS' REINFORCING SCHEDULE FOR ARCHITECTURAL CONCRETE CURBS.

GOLETA
LIBRARY

CITY OF GOLETA

500 N Fairview Ave
Goleta, CA 93117

Designer:
JM | A+D
516 N Sepulveda Blvd.
Manhattan Beach, CA 90266
(310) 664-3400
www.JMADesign.com

Structural:
kpff

Civil:
URBAN STUDIO

Landscape:
INTERFACE ENGINEERING

Consultants:
JENSEN HUGHES

Issued For:

| No | Description | Date |
|---|---|---|
| | 100% SCHEMATIC DESIGN | 11 OCT 2024 |
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | 100% CONSTRUCTION DOCUMENT | 07 MAR 2025 |
| | ISSUED FOR PERMIT | 20 MAR 2025 |

Owner's Signature:

LICENSED ARCHITECT
STATE OF CALIFORNIA

Sheet Name:
PROJECT NOTES

Project No.: 24.01
Drawn By: Author
Checked By: Checker
Scale: 12" = 1'-0"

Sheet No.:
A001

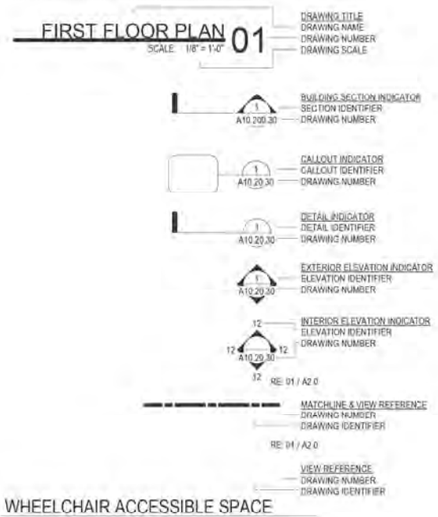
# ABBREVIATIONS

REFER TO CONSULTANT DRAWINGS FOR SPECIFIC NOTES. ABBREVIATION AND LEGENDS

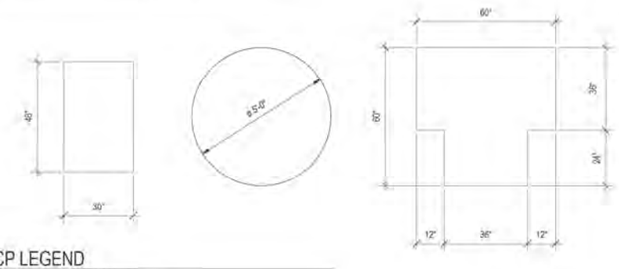
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AC | Asphaltic Concrete | FA | Fire Alarm | N | North | UIO | Underout |
| AV | Audio Visual | FAF | Fluid Applied Flooring | NA | Not Applicable | UNFIN | Unfinished |
| ACST | Acoustical | FAAP | Fire Alarm Annunciator Panel | NC | Noise Criteria | UNO | Unless Noted Otherwise |
| ACT | Acoustical Ceiling Tile | FAN | Fabric | NIC | Not in Contract | UPS | Uninterrupted Power Supply |
| AD | Area Drain | FAI | Fresh Air Intake | NO | Number | | |
| ADDL | Additional | FD | Floor Drain | NOM | Nominal | VAC | Vacuum |
| ADJ | Adjacent | FDC | Fire Department Connection | NRC | Noise Reduction Coefficient | VERT | Vertical |
| ADR | Access Door | FDMPR | Fire Damper | NTS | Not to Scale | VEST | Vestibule |
| AF | Access Floor | FDTN | Foundation | | | VCP | Vitrified Clay Pipe |
| AFF | Above Finished Floor | FE | Fire Extinguisher | OA | Outside Air | VIF | Verify in Field |
| AGGR | Aggregate | FF | Finished Floor | OC | On Center | VLT | Vault |
| AHU | Air Handling Unit | FG | Finished Grade | OD | Outside Diameter | VNR / VE | Veneer |
| ALS | Assisted Listening System | FEC | Fire Extinguisher Cabinet | OF | Outside Face | VOL | Volume |
| ALT | Alternate | FH | Fire Hydrant | OFD | Overflow Drain | | |
| ALUM | Aluminum | FHC | Fire Hose Cabinet | OFF | Office | W | Water |
| ANOD | Anodized | FHR | Fire Hose Rack (Reel) | OHDR | Overhead Coiling Door | W/ | With |
| APPROX | Approximate(ly) | FIN | Finish(ed) | OPH | Opposite Hand | W/O | Without |
| APT | Apartment | FIN FL | Finish Floor | OPNG | Opening | WB | Wood Base |
| ARC | Architectural Concrete | FIN GR | Finish Grade | OPP | Opposite | WC | Wheel Chair |
| ARCH | Architectural | FLEX | Flexible | OPR | Operating / Operable | WCV | Wall Covering |
| AUTO | Automatic | FL | Flow Line | ORD | Overflow Roof Drain | WD | Wood |
| AUX | Auxiliary | FLH | Flashing | OZ | Ounce | WDF | Wood Door and Frame |
| AVG | Average | FLMT | Flush Mounted | | | WH | Wall Hydrant |
| | | FLR | Floor(s) | PA | Public Address | WI | Wrought Iron |
| BI | Bottom of | FLS | Floor Sealer | PAR | Parallel | WM | Water Meter |
| BD | Board | FLUOR | Fluorescent | PART | Partial | WP | Work Point |
| BCR | Begin Curve Radius | FO | Finished Opening | PAV | Pavers | WPS | Waterproofing System |
| BEV | Beveled | FP | Fireproofing | PB | Particle Board | WR | Weather Resistant |
| BG | Bumper Guard | FPM | Feet per Minute | PCC | Precast Concrete | WRB | Wardrobe |
| BLDG | Building | FR | Fire Retardant / Rating / Resist. | PERF | Perforated | WS | Weatherstripping |
| BLKG | Block(ing) | FRM | Frame | PERP | Perpendicular | WT | Weight |
| BM | Beam | FRTW | Fire Retardant Treated Wood | PIV | Post Indicator Valve | WTR | Window Treatment |
| BMK | Benchmark | FS | Full Size | PL | Plastic Laminate | WV | Wood Veneer |
| BMP | Best Management Practices | FSB | Fire Stopping System | PLA | Plaster | WWF | Welded Wire Fabric |
| BOC | Bottom of Curb | FSE | Food Service Equipment | PLBG | Plumbing | X | |
| BOMA | Bldg. Owners and Managers Assoc. | FSP | Fire Standpipe | PLYWD | Plywood | | |
| BOS | Bottom on Stairs | FT | Feet (Foot) | PNEU | Pneumatic | Y | |
| BR | Bedroom | FTG | Footing | POC | Point of Connection | | |
| BRK | Brick | FU | Fixture Units | POL | Polished | | |
| BRZ | Bronze | FW | Fire Water | PR | Pair | | |
| BSMT | Basement | FWP | Fabric Wrapped Panel | PRC | Point of reverse Curve | | |
| BS | Brass | | | PRV | Pressure Reducing Valve | Z | |
| BTU | British Thermal Unit(s) | | | PREFAB | Prefabricate(d) | | |
| BW | Back of Walk | G | Gas | PROJ | Project(s) | | |
| | | GA | Gauge | PROP | Property | | |
| CAP | Capacity | GAL | Gallon(s) | PSF | Pounds per Square Foot | | |
| CB | Catch Basin | GALV | Galvanized | PSI | Pounds per Square Inch | | |
| CCTV | Closed Circuit Television | GFRC | Glass Fiber Reinforced Concrete | PT | Paint(ed) | | |
| CF | Curb Face | GFRG | Glass Fiber Reinforced Gypsum | PTN | Partition | | |
| CFM | Cubic Feet Per Minute | GI | Galvanized Iron | PVC | Polyvinyl Chloride | | |
| CG | Corner Guard(s) | GL | Glass | PVG | Paving | | |
| CI | Cast Iron | GL BLK | Glass Block | PWR | Power | | |
| CJ | Control Joint | GND | Ground | | | | |
| CL | Center Line | GPH | Gallons per Hour | QT | Quarry Tile | | |
| CLG | Ceiling | GPM | Gallons per Minute | QTY | Quantity | | |
| CLG HT | Ceiling Height | GRD | Grade | | | | |
| CLO | Closet | GRL | Grille | R | Riser | | |
| CLR OPNG | Clear Opening | GWB | Gypsum Wallboard | RA | Return Air | | |
| CMU | Concrete Masonry Unit(s) | GV | Gate Valve | RAD | Radius | | |
| CO | Cleanout | | | RB | Resilient Base | | |
| COL | Column | | | RC | Reinforced Concrete | | |
| CONC | Concrete | HB | Hose Bib | RCIP | Rectangular Cast Iron Pipe | | |
| CONF | Conference | HD | Head | RD | Roof Drain | | |
| CONN | Connect(ion) | HDPE | High Density Polyethylene | RECPT | Receptacle | | |
| CONSTR | Construction | HDW | Hardware | RECT | Rectangle | | |
| CONT | Continuous / Continue | HEX | Hexagon(al) | REF | Reference | | |
| CONV | Convector | HM | Hollow Metal | REFR | Refrigerator | | |
| CORR | Corridor | HNDRL | Handrail | REG | Register | | |
| CPDT | Continuous Path Of Travel | HO | Hold Open | REINF | Reinforce(d, -ing, -ment) | | |
| CPT | Carpet(ed) | HORIZ | Horizontal | REQD | Required | | |
| CSK | Countersink / Countersunk | HPT | High Point | REV | Revised / Revision | | |
| CSWK | Casework | HR | Hour(s) (Fire Resistance Rating) | RF | Resilient Flooring | | |
| CT | Ceramic Tile | HT | Height | RFA | Roofing Accessories | | |
| CTR | Center(ed) | HVAC | Heating, Ventilating, Air Conditioning | RH | Right Hand | | |
| CU | Cubic | HWY | Highway | RM | Room | | |
| CW | Cold Water | | | RMX | Room Matrix | | |
| | | ID | Inside Diameter | RND | Round(ed) | | |
| DB | Decibel | IDF | Intermediate Distribution Facility | RO | Rough Opening | | |
| DBL | Double | INCL | Include(d) / Inclusive / Including | ROT | Rotated | | |
| DD | Desk Drain | INFO | Information | ROW | Right of Way | | |
| DEG | Degree(s) | INS | Insulation / Insulate(d) | RPM | Revolutions per Minute | | |
| DEPT | Department | INT | Interior | RR | Railroad | | |
| DET | Detail(s) | INV | Invert | RS | Roofing System | | |
| DF | Drinking Fountain | | | RW | Right of Way | | |
| DH | Double Hung | JC | Janitor Closet | S= | Slope Equals | | |
| DIA | Diameter | JF | Joint Filler | SA | Supply Air | | |
| DIAG | Diagonal | JG | Joint Gasket | SAN | Sanitary | | |
| DIFF | Diffuser(s) | JT | Joint | SB | Splash Block | | |
| DIM | Dimension(s) | | | SCHED | Schedule(d) | | |
| DISP | Dispenser | KD | Knockdown | SD | Storm Drain | | |
| DIV | Divide / Division | KIT | Kitchen | SE | Sealant | | |
| DL | Dead Load | KO | Knockout | SECT | Section | | |
| DMPF | Dampproofing | KPL | Kickplate | SHR | Shower | | |
| DMPR | Damper | | | SHT | Sheet | | |
| DN | Down | L | Angle | SHTHG | Sheathing | | |
| DP | Drainage Panel | LAB | Laboratory | SIM | Similar | | |
| DR | Dining Room | LAM | Laminate(d) | SLDG | Slide / Sliding | | |
| DRP | Drapery | LAV | Lavatory | SMR | Sheet Metal Roofing | | |
| DW | Domestic Water | LBS | Pound(s) | SPC | Synthetic Polymer Countertop | | |
| DWG | Drawing(s) | LD | Linear Diffuser | SPEC | Specification(s) | | |
| DWTR | Dumbwaiter | LH | Left Hand | SQ | Square | | |
| | | LIN | Linear | SQ FT | Square Foot / Feet | | |
| EA | Each | LONG | Longitudinal | SSMH | Storm Drain Manhole | | |
| EC | Exposed Construction | LPT | Low Point | STL ST | Stainless Steel | | |
| EC | Elastomeric Coating | LR | Living Room | ST | Stone | | |
| ECR | End of Curve return | LTG | Lighting | STC | Sound Transmission Class | | |
| EG | Edge of Gutter | LVR | Louver(ed) | STD | Standard | | |
| EIFS | Exterior Insulated Finish System | | | STL | Steel | | |
| EJ | Expansion Joint | MACH | Machine | STOR | Storage | | |
| EL | Elevation (Grade) | MAINT | Maintain / Maintenance | STRUCT | Structure / Structural | | |
| ELAST | Elastomeric | MATL | Material | SURF MTD | Surface Mounted | | |
| ELEC | Electric(al) | MAX | Maximum | SUSP | Suspended / Suspension | | |
| ELEC CL | Electric Closet | MB | Metal Base | SWBD | Switchboard | | |
| ELEV | Elevator | MDF | Main Distribution Facility | SYMM | Symmetrical | | |
| ELEV | Elevation (Bldg) | MECH | Mechanical | | | | |
| EM | Entrance Mat | MED | Medium | T | Tread | | |
| EMER | Emergency | MEZZ | Mezzanine | T&G | Tongue and Groove | | |
| ENCL | Enclosure / Enclose(d) | MFR | Manufacturer | T/ | Top of | | |
| ENTR | Entrance | MH | Manhole | TA | Toilet Accessory(ies) | | |
| EOS | Edge of Slab | MIN | Minimum | TC | Traffic Coating | | |
| EQ | Equal | MISC | Miscellaneous | TD | Trench Drain | | |
| EQUIP | Equipment | ML | Metal Lath | TEL | Telephone | | |
| ESC | Escalator | ML WK | Millwork | TEMP | Temperature | | |
| EW | Each Way | MLDG | Molding | TER | Terrazzo | | |
| EWC | Electric Water Cooler | MO | Masonry Opening | TG | Top of Grate | | |
| EXH | Exhaust | MP | Metal Panel | THK | Thick(ness) | | |
| EXIST | Existing | MTD | Mounted | THRES | Threshold | | |
| EXP | Exposed | MTL | Metal | TOC | Top of Curb | | |
| EXPN | Expansion | MUL | Mullion | TOPO | Topography Map | | |
| EXT | Exterior | | | TOS | Top of Stairs | | |
| | | | | TRANS | Transom | | |
| | | | | TS | Traffic Signal | | |
| | | | | TSB | Traffic Signal Box | | |
| | | | | TV | Television | | |
| | | | | TW | Tread Width | | |
| | | | | TYP | Typical | | |
| | | | | TV | Television | | |

## DRAWING REFERENCE SYMBOLS

REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL SYMBOLS

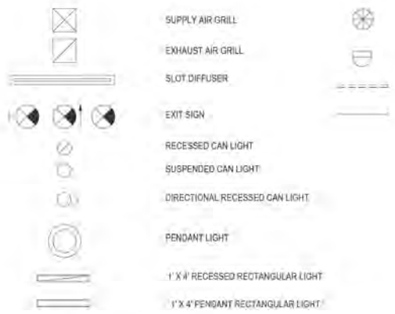



## WHEELCHAIR ACCESSIBLE SPACE

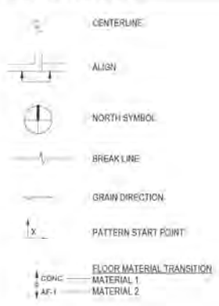



## RCP LEGEND

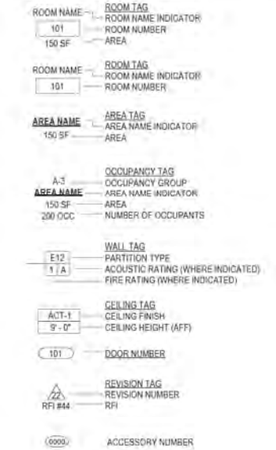
Note to specifier: These are the most common




## MISC. SYMBOLS




## TAGS

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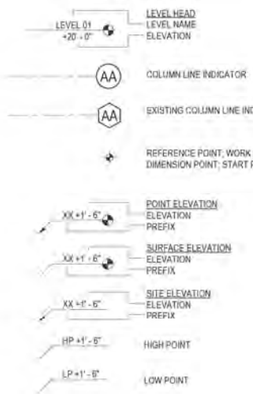
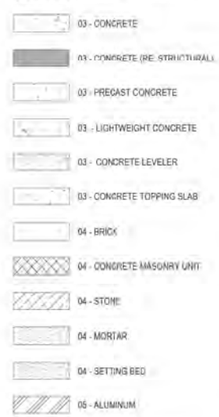



## MATERIALS

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Civil: UPLAN

Landscape: INTERFACE ENGINEERING

Consultant: JENSEN HUGHES

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Project No.: 24.01
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Sheet No.: A002

| SPEC | ABRV | MATERIAL | SPECIES/FINISH | MANUFACTURER |
|---|---|---|---|---|
| Note: The list below is a summary for convenience only. Refer to drawings, schedules and specifications for complete and detailed information. This schedule is not exhaustive and only serves to connect drawings with specification section. Not all items listed will be used in project | | | | |
| **00 GENERAL PROJECT REQUIREMENTS** | | | | |
| **01 GENERAL REQUIREMENTS** | | | | |
| **02 EXISTING CONDITIONS** | | | | |
| 02 41 00 | | **Demolition** | | |
| **03 CONCRETE** | | | | |
| 03 10 00 | | **Concrete Forming and Accessories** | | |
| 03 30 00 | | **Cast-in-Place Concrete** | | |
| | CONC-01 | Structural Concrete | | |
| | CONC-02 | Concrete | | |
| **04 MASONRY** | | | | |
| 04 20 00 | | **Concrete Unit Masonry** | | |
| | CMU-01 | Architectural Concrete Unit Masonry | (Dekalb Standard) Light Brown ( Match with existing Unit ) | RCP BLOCK & BRICK |
| 04 50 00 | | **Steel Masonry** | | |
| | CRN-01 | Steam Kiln | | |
| **05 METALS** | | | | |
| 05 50 00 | | **Metal Fabrications** | | |
| | MTL-3ES | Extra Strong Pipe Columns | | |
| 05 70 00 | | **Decorative Metal** | | |
| | MTL-1 | Aluminum | | |
| | MTL-2 | Stainless Steel | Stainless Steel | No.4 Brushed Finish |
| | MTL-2A | Stainless Steel | Stainless Steel | |
| | MTL-3 | Mild Steel | | |
| | MTL-4 | Bronze | | |
| **06 WOOD, PLASTICS, AND COMPOSITES** | | | | |
| 06 40 00 | | **Architectural Woodwork** | | |
| | | *Architectural Wood Casework* | | |
| | WD-01 | Interior Wood , Solid | | |
| | WD-01A | Interior Wood Veneer, Maple | | |
| | WD-02 | Interior Wood, Solid | | |
| | WD-02A | Interior Wood Veneer | | |
| | WD-03 | Interior Wood, Solid | | |
| | QTZ-01 | Manufactured Stone | | Sila Stone, Caesar Stone |
| | PL-01 | **High Pressure Plastic Laminate** | | |
| | | **Exterior Architectural Woodwork** | | |
| | WD-10 | Fascia Repair | | |
| | WD-11 | Exterior Benches | Teak | |
| | WD-12 | Handrail | Teak | |
| **07 THERMAL AND MOISTURE PROTECTION** | | | | |
| 07 20 00 | | **Thermal Protection** | | |
| | INS-01 | Stone Wool Insulation Board | Exterior Wall Cavity | Comfortboard (Rockwool) |
| | INS-02 | Semi-Rigid Glass Fiber Board Insulation with Vapor Barrier | | |
| | INS-03 | Extruded Polystyrene Insulation Board | Loadbearing Applications | Foamular 400 (Owens Corning) |
| | INS-04 | Extruded Polystyrene Board Insulation | | |
| | INS-05 | Extruded Polystyrene Board Insulation | | |
| | INS-06 | Extruded Polystyrene Board Insulation | | |
| | INS-07 | Foil Faced Blanket Batt Insulation | Interior cavity of exterior walls, foil face in | EcoBatt (Knauff) |
| | INS-08 | Unfaced Blanket Batt Insulation | Interior roof insulation and sound attenuation | EcoBatt (Knauff) |
| | INS-09 | Curtain Wall and Glazed Assembly Insulation | | |
| | INS-10 | Safing Insulation | Safing at flue penetrations and exterior penetrations | Thermafiber Safing (OwensCorning |
| | INS-11 | Black Acoustical Insulation | Selectsound Black Acoustic Board 1" Thick | Owens Corning |
| 07 27 13 | | **Weather Barriers** | | |
| | WB-01 | Weather Barrier | Fluid Applied | Perm-a-Barrier (Grace) |
| 07 54 00 | | **Thermoplastic Membrane Roofing** | | |
| | RF-01 | Single Ply PVC Roofing | | Sarnafil |
| 07 62 00 | | **Sheet Metal Flashing** | | |
| | FL-1 | Flashing | Stainless Steel (MTL-2) Sheet Metal Flashing | |
| 07 70 00 | | **Roof Accessories** | | |
| | | Roof Hatch | | |
| 07 92 00 | | **Joint Sealants** | | |
| | SE-1 | Structural Silicone | To be used at exterior walls on window frames | DOWSIL 995 |
| | SE-2 | Silicone | General Sealant | DOWSIL 790 |
| | SE-3 | Flexible Urethane | Exterior Network | Vulkem 445SSL (Tremco) |
| | SE-4 | Sanitary | Restrooms and food preparation areas | DOWSIL 680 |
| | SE-5 | Acrylic Paintable | General Painter's Caulking | Alex Painter (DAP) |
| | SE-6 | Acoustical Sealant | | |
| | SE-7 | Fire Rated | Flue/Grease Exhaust Penetrations | Fire Barrier (3M) |
| **08 OPENINGS** | | | | |
| 08 12 00 | | **Sliding Glass Doors** | | |
| | SG-01 | Sliding Aluminium-Framed Glass Doors | | Fleetwood/Alitmatrix |
| 08 14 00 | | **Wood Doors and Frames** | | |
| | | See Schedule | | |
| 08 31 13 | | **Access Doors and Panels** | | |
| | AP-1 | Flush Access Door | Masonry | |
| | AP-2 | Flush Stainless Steel | Ceramic | |
| | AP-3 | Flush Access Door | Drywall / Veneer Plaster | |
| | AP-4 | Recessed Pan Type | Plaster | |
| | AP-5 | Fire Board | Rating per wall | |
| 08 41 00 | | **Entrances and Storefronts** | | |
| | SF-01 | Storefront | Stick built batter/mullion system | |
| 08 51 13 | | **Aluminum Windows and Skylights** | | |
| 08 70 00 | | **Door hardware** | | |
| 08 81 23 | | **Exterior Glass Glazing** | | |
| | GL-01 | Monolithic Glass | | |
| | GL-02 | Laminated Glass | | |
| | GL-03 | Insulated Glass | | VE1-2M (VIRACON) |
| | GL-04 | Mirror Glass | 1/4" with Polished Edge | |
| **09 FINISHES** | | | | |
| 09 21 16 | | **Gypsum Board Assemblies** | | |
| | GWB | Gypsum board Assembly | | |
| 09 30 13 | | **Ceramic Tiling** | | |
| | TL-01 | Ceramic Floor Tiles | 12" x 12" Patterned Tiles with abrasive finish | |
| | TL-02 | Ceramic Wall Tiles | 2" x 8" x 0.5" Ceramic Tiles, White Gloss | Villa Classica (CLE) |
| | TL-03 | Ceramic Floor Tiles | Floor Tile with abrasive finish | |
| | TL-04 | Ceramic Wall Tiles | 2" x 8" x 0.5" Ceramic Tiles | |
| | TL-05 | Ceramic Floor Tiles | Floor Tile with abrasive finish | |
| | TL-08 | Ceramic Wall Tiles | 2" x 8" x 0.5" Ceramic Tiles | |
| 09 51 00 | | **Acoustical Ceiling Tile** | | |
| | ACT-01 | Acoustical Ceiling Tile | 2'x 2' Regular | ULTIMA ( Armstrong ) |
| | ACT-02 | Acoustical Ceiling Tile | 2' x 6' Regular Ceiling Tile with minimum CAC NRC | CALLA ( Armstrong ) |
| | ACT-03 | Acoustical Ceiling Tile | Concealed Clip suspension System | Dotbustics Claro ( Certainteed ) |
| | ACT-04 | Acoustical Ceiling Tile | Accessible Veneered Ceiling | (WOODWORKS ( Armstrong ) |
| 09 65 00 | | **Resilient Flooring** | | |
| 09 65 16.23 | LVT-1 | Vinyl Sheet Flooring | | |
| | PR-01 | Permeable Wood Pavers | 11" x 11" Permeable Wood Decking | (Black Earwood ) Roof Drain Plow Pavers ( Reid Dreaning) |
| 09 68 00 | | **Carpeting** | | |
| 09 68 13 | CPT-1 | Tile Carpeting | | |
| 09 91 13 | | **Exterior Painting** | | |
| | PT-10 | Exterior Acrylic | | |
| | PT-11 | Exterior Acrylic | | |
| | PT-12 | Exterior Acrylic | | |
| 09 91 23 | | **Interior Painting** | | |
| | PT-01 | Interior Latex | Project Standard White | (Chantilly Lace OC-65 ( Benjamin Moore ) |
| | PT-02 | Interior Latex | Project Accent Color | |
| | PT-03 | Interior Latex | Kids Area | |
| | PT-04 | Interior Latex | Kids Area | |
| | PT-05 | Interior Latex | Field Gray | |
| | PT-06 | Interior Latex | Flat Black | |
| | PT-07 | Interior Latex | Light French Gray | Sherwin Williams |
| | PT-08 | Interior Latex | Alabaster White | Sherwin Williams |
| | PT-09 | Interior Latex | Castle Gate | Sherwin Williams |
| 09 96 00 | | **High Performance Coatings** | | |
| | FIN-1 | Resinous Coating | 3 Coat Fluoropolymer System, Match PT-10 | |
| | FIN-2 | Resinous Coating | 3 Coat Fluoropolymer System, Match PT-11 | |
| | PC-01 | Powder Coating | Match PT-10 | |
| | PC-02 | Powder Coating | Match PT-11 | |
| **10 SPECIALTIES** | | | | |
| 10 28 13 | | **Toilet Accessories** | | |
| | TA-01 | Combination Paper Towel and Waste Receptacle | B-2944, Recessed Paper Towel Dispenser and Waste Receptacle, Stainless Steel w Satin Finish | ContourSeries , (BOBRICK) |
| | TA-02 | Free Standing Waste Bin | | ( BOBRICK) |
| | TA-03 | Foam Soap Dispenser | B-2013, Automatic Wall-Mounted Soap Dispenser (Touchless), Stainless Steel w Satin Finish | ( BOBRICK) |
| | TA-04 | Single Vanity Mirror | TSL3430 CS , Wall Mounted Single Vanity mirror, Stainless Steel w Satin Finish | THE SPLASH LAB |
| | TA-05 | Double Vanity Mirror | TSL-LM8-21 , Wall Mounted | THE SPLASH LAB |
| | TA-06 | Toilet Tissue Dispenser (Two Roll) | B-4288, Surface Mounted Multi-Roll Toilet Tissue Dispenser (Two Roll), Stainless Steel | ContourSeries , ( BOBRICK) |
| | TA-07 | Recessed Toilet Paper Holder | B-3588.34, MBLK, Recessed | TrimLineSeries ( BOBRICK) |
| | TA-08 | Partition Mounted Sanitary Napkin Disposal | B-3139, MBLK, Surface Mounted | TrimLineSeries ( BOBRICK) |
| | ~~TA-09~~ | ~~Recessed Sanitary Napkin Disposal~~ | ~~B-3511 MBLK, Recessed~~ | ~~TrimLineSeries ( BOBRICK)~~ |
| | ~~TA-10~~ | ~~Recessed Sanitary Napkin Disposer~~ | ~~Recessed Sanitary Napkin Disposer~~ | ~~TrimLineSeries ( BOBRICK)~~ |
| | | Toilet Tissue, Seat Cover, and Waste Disposal | B-3091, Recessed Toilet Tissue, Seat Cover Dispenser and Waste Disposal - Left Side of Toilet While Seated, Stainless Steel w Satin Finish | Classic Series, ( BOBRICK) |
| | | Toilet Tissue, Seat Cover, and Waste Disposal | B-3092, Recessed Toilet Tissue, Seat Cover Dispenser and Waste Disposal - Left Side of Toilet While Seated, Stainless Steel w Satin Finish | Classic Series, ( BOBRICK) |
| | TA-11 | Toilet Seat Cover Dispenser | B-221, Recessed Toilet Seat Cover Dispenser, Stainless Steel | ( BOBRICK) |
| | TA-12 | Shelf | B-287 Folding Utility Shelf, Stainless Steel Shelf | ( BOBRICK) |
| | TA-13 | Grab Bar | B-6806 Series, 1-1/2" Diameter Stainless Steel Grab Bars with Snap Flange, Stainless Steel w Satin Finish | 36" & 42", As shown in plan , (BOBRICK) |
| | TA-14 | Coat Hook | B-6542, Surface-Mounted Coat Hook, Stainless Steel w Satin Finish | Flire Collection, (BOBRICK) |
| | TA-15 | Coat Hook with Bumper | B-6541, Surface-Mounted Coat Hook with Bumper, Satin Finish Steel | (BOBRICK) |
| | TA-16 | Changing Table | KB-300-SS, Baby Changing Station, Brushed Stainless Steel Veneer | Koala Kare |
| | TA-17 | Janitors Room Utility Shelf | B-224 (x 36) Utility Shelf w Mop/Broom Holders and Rag Hooks | (BOBRICK) |
| | TA-18 | Mop & Broom Holder | B-223 (x 36), Mop and Broom Holder, Stainless Steel w Satin Finish | (BOBRICK) |
| | TA-19 | Automatic Hand Dryer | B-7179 Surface Mounted Automatic Hand Dryer (Touchless), Stainless Steel w Satin Finish | Flire Collection, (BOBRICK) |
| | TA-20 | Faucet | LBF-650-B-BATCP-0.5GPM-MLM-FCT, Optima Sensor Faucet (Touchless), Polished Chrome | (BOBRICK) |
| 10 44 00 | | **Fire Protection Specialties** | | |
| | FEC-1 | Fire Extinguisher in Cabinet | Recessed, Paint to Match Wall | Potele Roemer 1704 |
| 10 51 00 | | **Lockers** | | |
| 10 57 16.13 | | **Bi parting Closet Doors** | | |
| **11 EQUIPMENT** | | | | |
| 11 30 13 | | **Appliances** | | |
| | REF | Refrigerator | 48" French Door, Shallow with Freezer on Bottom | |
| | MW | Microwave | | |
| | IM | Ice Maker | | |
| **12 FURNISHINGS** | | | | |
| 12 10 00 | | **Art** | | |
| 12 22 00 | | **Window Treatments** | | |
| | WS-1 | Window Shade | Powered with reflective Backing | Mechoshade |
| | BO-1 | Black Out Shade | Powered Roller type with track and reflective backing | Mechoshade |
| 12 36 40 | | **Stone Countertops** | | |
| | | *See section 06 40 00 for stone countertops* | | |
| 12 50 00 | | **Site Furnishings** | | |
| | BIK-1 | BIKE RACK | | |
| | TB | TRASH BIN | | |
| | RB | RECYCLE BIN | | |
| | SK-01 | Skateboard Deterrents | Surface Mount Brushed Stainless Steel | 6.135-SS, ( SKATE STOPPERS ) |
| **12 FURNISHINGS** | | | | |
| **13 SPECIAL CONSTRUCTION** | | | | |
| **14 CONVEYING EQUIPMENT** | | | | |
| **21 FIRE SUPPRESSION** | | | | |
| **22 PLUMBING** | | | | |
| | DF-01 | Bottle Filling Station with Single ADA Drinking Station | Drinking Fountain | Model EZSDWSSK (Elkay) |
| | SK-01 | Kitchen Sink<br>ADA Undermount Single Basin<br>Deck Mount Semi Professional Faucet<br>Garbage Disposal<br>Standard Trap<br>Knee Guard | 21" undermount single-bowl kitchen sink<br><br>Stainless Steel | Model K-3822-1-NA , "Vault" (Kohler)<br><br>K-28267-CP, "Components" (Kohler)<br>Model: 79950-GE - Item: bo2610833 (InSinkErator) |
| | SK-02 | Utility Sink<br>ADA Undermount Single Basin<br>Deck Mount Semi Professional Faucet | 22" Stainless Steel Worksatsation Sink<br><br>Stainless Steel | K-5285-NA, "Strive" (Kohler)<br><br>K-28267-CP, "Components" (Kohler) |
| | LAV-01 | Ganged Restroom Lavatory<br>ADA, Undermount, Round Bowl<br>Single Hole Sensor Faucet<br>Kneeguard | Caxton, 21-1/8" Oval Undermount Bathroom Sink,White<br>Optima Sensor Faucet (Touchless),Brushed Stainless Steel<br>Formed Stainless Steel | K-2211 "Caxton" (Kohler)<br>LBF-800-B-BAT-CP-0.5GPM-MLM-FCT, (Sloan) |
| | LAV-02 | Above Lavatory<br>ADA Undermount Round Bowl<br>Single Hole Sensor Faucet<br>Kneeguard | Caxton, 21-1/4" Oval Undermount Bathroom Sink,White<br>Optima Sensor Faucet (Touchless),Brushed Stainless Steel<br>Formed Stainless Steel | K-2211 "Caxton" (Kohler)<br>LBF-800-B-BAT-CP-0.5GPM-MLM-FCT, (Sloan) |
| | LAV-03 | Wall Hung Lavatory<br>Single Hole Sensor Faucet<br>Kneeguard | Vitreous China<br>Optima Sensor Faucet (Touchless),Brushed Stainless Steel | K-2028-1-0, "Pinoir" , (Kohler)<br>LBF-800-B-BAT-CP-0.5GPM-MLM-FCT, (Sloan) |
| | WC-01 | Water Closet<br>Toilet Seat<br>Water Closet Valve / Flushometer | Kingston Ultra Toy Dual Flushometer Bowl , White<br>Open Front, heavy Duty Commercial Toilet Seat<br>Royal Manual Flushometer | K-4432D, "Kingston Ultra " (Kohler)<br>PTSC01H2000WH, "Prefix" ,(Kohler)<br>9910AB, " Royal 111-1.28" (Sloan) |
| | WC-02 | Water Closet<br>Flush Valve | Madera Youth Flowise 14-Inch Height Toilet Spud Elongated Bowl, White<br>6047161.002, Sensor-Operated American Standard Selectronic® | " Madera" , ( American Standard)<br>"Ultima" ,( American Standard) |
| | UR-01 | Urinal | Swish Waterless Urinal, White Vitreous China | WES-4000-STG, "Amoia"(Sloan) |
| | JMB | Janitor's Mop Sink<br>Mop Sink Faucet | Whitby, Service Sink, Enamel Cast Iron, White<br>Triton Bowe, Service Sink Faucet, Polished Chrome | K-6710, (Kohler)<br>K-8387B0-4A, (Kohler) |
| | FD-01 | Floor Drain | See Plumbing | |
| **23 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)** | | | | |
| **25 INTEGRATED AUTOMATION** | | | | |
| **26 ELECTRICAL** | | | | |
| 26 50 12 | | **Lighting Accessories** | | |
| | | *See RCP on Sheet A400 for lighting fixtures* | | |
| 26 51 00 | | **Interior Lighting** | | |
| | | *See RCP on Sheet A400 for lighting fixtures* | | |
| | EX-01 | Exit Sign | | Lion |
| **27 COMMUNICATIONS** | | | | |
| 27 20 00 | | **Data Communications** | | |

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Sheet Name:
MATERIALS AND NOTES

Project No.: 2410
Drawn By: Author
Checked By: Checker
Scale:

Sheet No.:
A003

| SPEC | ABRV | MATERIAL | SPECIES/FINISH | MANUFACTURER |
|---|---|---|---|---|
| 28 ELECTRONIC SAFETY AND SECURITY | | | | |
| 31 EARTHWORK | | | | |
| 32 EXTERIOR IMPROVEMENTS | | | | |
| 32 13 00 | | Rigid Paving | | |
| 32 13 13 | CONC-01 | Structural Concrete | | |
| 32 15 00 | | Aggregate Surfacing | | |
| | GVL-01 | Existing Gravel (Groundcover) | | |
| 32 16 00 | | Curbs, Gutters, Sidewalks, and Driveways | | |
| 32 31 00 | | Fences and Gates | | |
| 32 90 00 | | Planting | | |
| | | Mulch (light) | | |
| | | Mulch (dark) | | |
| 32 84 33 | | Planters | | |
| 33 UTILITIES | | | | |
| 34 TRANSPORTATION | | | | |
| 35 WATERWAY AND MARINE CONSTRUCTION | | | | |
| 40 PROCESS INTEGRATION | | | | |
| 41 MATERIAL PROCESSING AND HANDLING EQUIPMENT | | | | |
| 42 PROCESS HEATING, COOLING, AND DRYING EQUIPMENT | | | | |
| 43 PROCESS GAS AND LIQUID HANDLING, PURIFICATION, AND STORAGE EQUIPMENT | | | | |
| 44 POLLUTION AND WASTE CONTROL EQUIPMENT | | | | |
| 45 INDUSTRY-SPECIFIC MANUFACTURING EQUIPMENT | | | | |
| 46 WATER AND WASTEWATER EQUIPMENT | | | | |
| 48 ELECTRICAL POWER GENERATION | | | | |

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LICENSED ARCHITECT
JEFFREY MARTIN MILLER
C-30356
REGISTERED
STATE OF CALIFORNIA

Sheet Name:
MATERIALS AND NOTES

Project No.: 24.01
Drawn By: Author
Checked By: Checker
Scale:

Sheet No.:
A004

## PROPOSED AREA TABLE

| | | |
|---|---|---|
| AREA OF PARKING REGRADING | | 1,040 SF |
| | TOTAL AREA | 1,040 SF |
| AREA OF PATH OF TRAVEL REGRADING 1 | | 1,474 SF |
| AREA OF PATH OF TRAVEL REGRADING 2 | | 617 SF |
| EGRESS PATH OF TRAVEL REGRADING | | 282 SF |
| | TOTAL AREA | 2,373 SF |
| AREA OF INTERIOR RENOVATION 1 | | 958 SF |
| AREA OF INTERIOR RENOVATION 2 | | 2,510 SF |
| | TOTAL AREA | 3,468 SF |
| | TOTAL AREA | 6,881 SF |

## PROPOSED AREA LEGEND

- CROSS BUILDING AREA
- PROPOSED CONSTRUCTION (NEW)

## AREA TABLE

| | | |
|---|---|---|
| EXTENT OF INTERIOR DEMOLITION AREA A | | 1,007 SF |
| EXTENT OF INTERIOR DEMOLITION AREA B | | 333 SF |
| EXTENT OF INTERIOR DEMOLITION GLAZING | | 98 43 SF |
| | TOTAL AREA | 1,428 SF |
| EXTENT OF EXTERIOR DEMOLITION (ENTRY PAVEMENT) | TOTAL AREA | 800 SF |
| EXTENT OF EXTERIOR DEMOLITION A | | 607 SF |
| EXTENT OF EXTERIOR DEMOLITION B | | 665 SF |
| | TOTAL AREA | 1302 SF |
| EXTENT OF PARKING DEMOLITION | TOTAL AREA | 1,118 SF |

## EXISTING AREA LEGEND

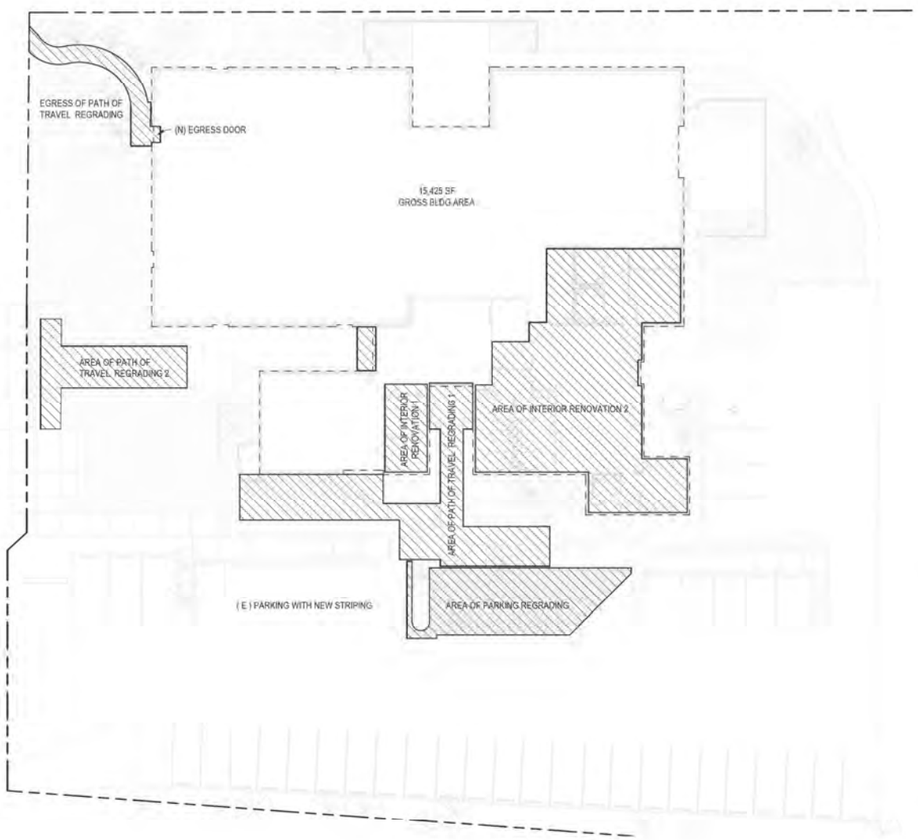
- INTERIOR DEMOLITION AREA
- EXTERIOR DEMOLITION AREA
- OPTIONAL EXTERIOR DEMOLITION AREA
- PARKING DEMOLITION

SHEET NOTES:

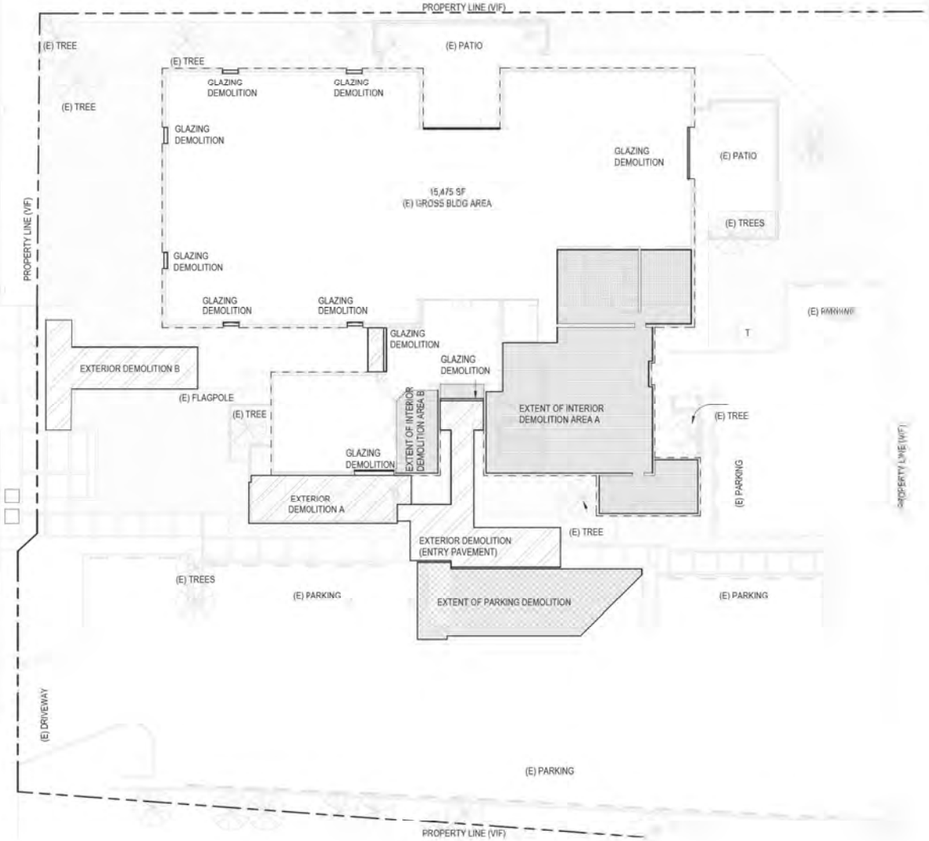
1) THIS SCOPE DOES NOT INCLUDE A REVISION IN OCCUPANCY OR ADDITION TO THE BUILDING THEREFORE PARKING WAS NOT RECALCULATED

2) EXISTING PROPERTY LINE IS TO MIDDLE OF STREET. PROPOSED PROPERTY LINE IS PER CIVIL DRAWINGS

3) ALL CEILINGS TO BE REPLACED




PROPOSED AREA DIAGRAM 02
SCALE: 1/16" = 1'-0"




EXISTING AREA DIAGRAM 01
SCALE: 1/16" = 1'-0"

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Architect:
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Landscape:
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Consultant:
JENSEN HUGHES

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Keynote Plan:

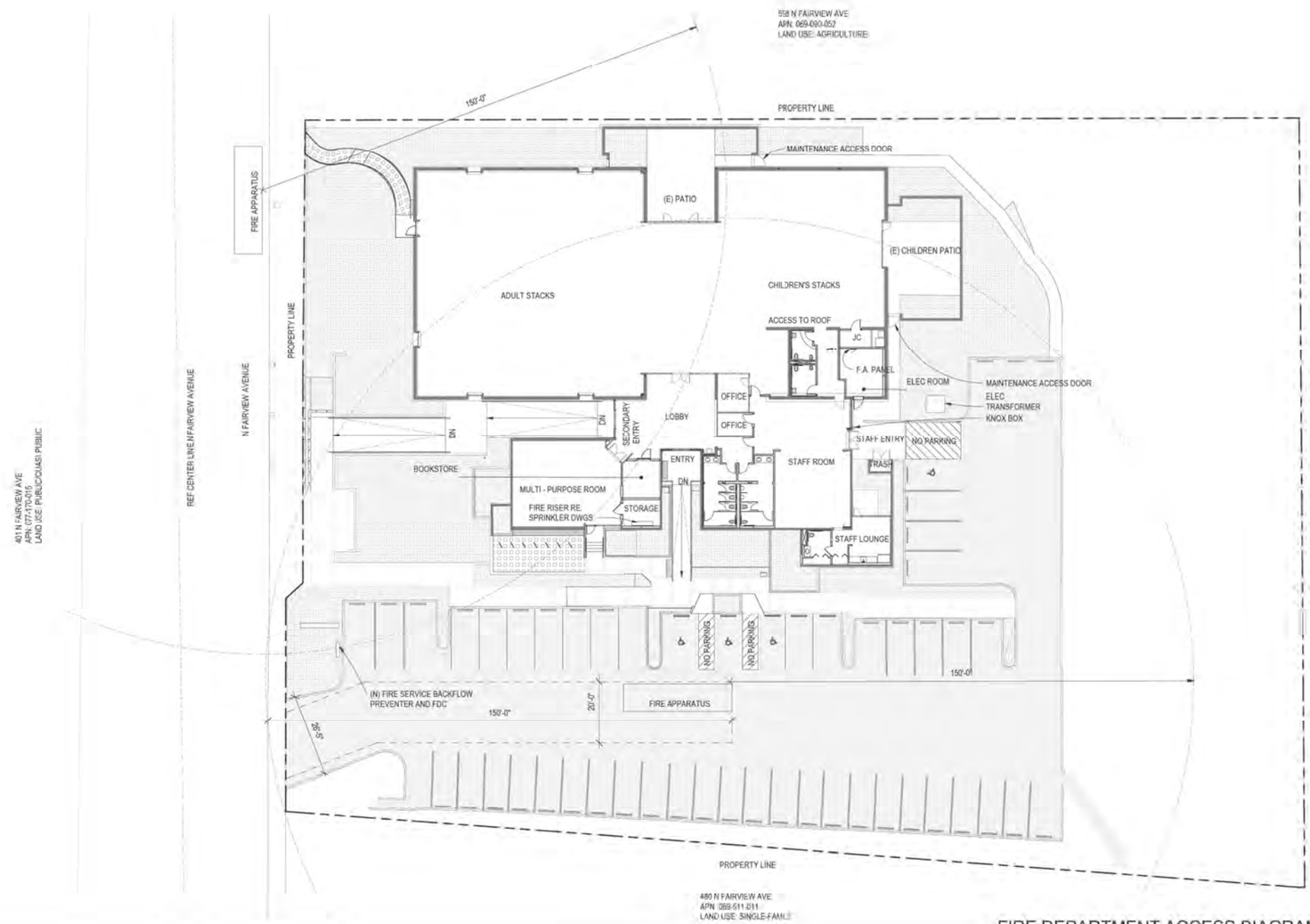
1

Seal & Signature:
LICENSED ARCHITECT
JEFFREY MARSH
C-36366
STATE OF CALIFORNIA

Sheet Name:
AREA DIAGRAMS AND SCOPE OF WORK

Project No.: 24.01
Drawn By: AM/NV
Checked By: JM/MM
Scale: As indicated

Sheet No.: A010




FIRE DEPARTMENT ACCESS DIAGRAM 01
SCALE: 1/16" = 1'-0"

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Sheet No: 1

LICENSED ARCHITECT
STATE OF CALIFORNIA

Sheet Name:
FIRE DEPARTMENT ACCESS DIAGRAMS

Project No.: 24-05
Drawn By: Author
Checked By: Checker
Scale: 1/16" = 1'-0"

Sheet No.: A020

## EGRESS AND PLUMBING CALCULATION

| | Occupancy | OLF (SF) | Useable Area (SF) | No. of Occ. | Req'd Exits | Exits Provided | PLF (Per CPC) | No. of Occ. | No. of Males | W.C. | Urinals | Req'd Lavs | No. of Females | Req'd W.C. | Req'd Lavs | Drinking Fountain | SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ground Level** | | | | | | | | | | | | | | | | | |
| | | | | 286 | | | | 247 | 124 | 2 | 2 | 1 | 124 | 2 | 1 | 1 | 1 |
| Adult Stack Area | A-3 | 100 | 4,744 | 48 | 1 | 1 | 50 | 95 | | | | | | | | | |
| Adult Reading Area | A-3 | 50 | 588 | 12 | 1 | 2 | 50 | 12 | | | | | | | | | |
| Children Stack Area | A-3 | 100 | 2,722 | 28 | 1 | 2 | 50 | 55 | 1/2 Total Occ. | 2:100 -200 | 2:100 -200 | 1:1-200 | 1/2 Total Occ. | 4:100 -200 | 2:100 -200 | 1:1-250 | 1 Service Sink |
| Children Reading Area | A-3 | 50 | 409 | 9 | 1 | 2 | 50 | 9 | | | | | | | | | |
| Outdoor Deck A | A-3 | 15 | 661 | 45 | 1 | 1 | 30 | 23 | | | | | | | | | |
| Outdoor Deck B | A-3 | 15 | 602 | 41 | 1 | 2 | 30 | 21 | | | | | | | | | |
| Multipurpose room | A-3 | 15 | 938 | 63 | 2 | 2 | 30 | 32 | | | | | | | | | |
| | | | | 49 | | | | 34 | 17 | 1 | 1 | 1 | 17 | 2 | 1 | 1 | 1 |
| Checkout Area | B | 150 | 1,170 | 8 | 1 | 1 | 150 | 8 | | | | | | | | | |
| Office | B | 150 | 2,579 | 18 | 1 | 1 | 150 | 18 | | | | | | | | | |
| Staff Lounge | Acc | 15 | 196 | 14 | 1 | 2 | 30 | 7 | 1/2 Total Occ. | 1:1-50 | 1:1-100 | 1:1-75 | 1/2 Total Occ. | 2:16-30 | 1:1-50 | 1 per 150 | 1 Service Sink |
| Outdoor Deck C | Acc | 15 | 67 | 5 | 1 | 1 | 30 | 3 | | | | | | | | | |
| Lobby | B | 150 | 750 | 5 | 1 | 2 | 150 | 5 | | | | | | | | | |
| Book Store | B | 150 | 141 | 1 | 1 | 1 | 150 | 1 | | | | | | | | | |
| Storage | Acc | 300 | 106 | 1 | 1 | 1 | - | - | | | | | | | | | |
| Utility Area | U | 300 | 235 | 1 | 1 | 1 | - | - | | | | | | | | | |
| **Mezzanine** | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Abandoned Utility | U | 300 | 659 | 3 | - | - | - | - | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| TOTAL | | | | 294 | | | | 281 | 141 | 3 | 3 | 2 | 141 | 4 | 2 | 2 | 1 |

Egress Calculations per 2022 CBC
Plumbing Calculations per 2022 CPC

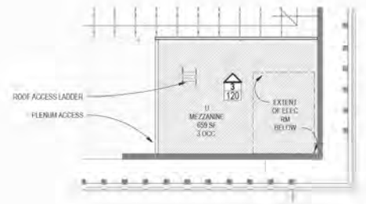
## FIRE LIFE SAFETY FLOOR PLANS LEGEND

- 1 HR FIRE-RESISTANCE RATING
- 2 HR FIRE-RESISTANCE RATING
- 3 HR FIRE-RESISTANCE RATING
- 4 HR FIRE-RESISTANCE RATING
- SMOKE BARRIER
- EGRESS PATH OF TRAVEL
- ACCESSIBLE PATH OF TRAVEL
- EXIT SEPARATION
- (250) TOTAL EXITING OCCUPANTS
- EXIT ACCESS — Actual Exiting Occupants / Egress Capacity
- EXIT — Actual Exiting Occupants / Egress Capacity
- ACCESSIBLE EXIT ACCESS
- EXIT DISCHARGE
- FE FIRE EXTINGUISHER

A-3 — OCCUPANCY TAG
AREA NAME — OCCUPANCY GROUP / AREA NAME INDICATOR
150 SF — AREA
200 OCC — NUMBER OF OCCUPANTS

## AREA LEGEND OCCUPANCY

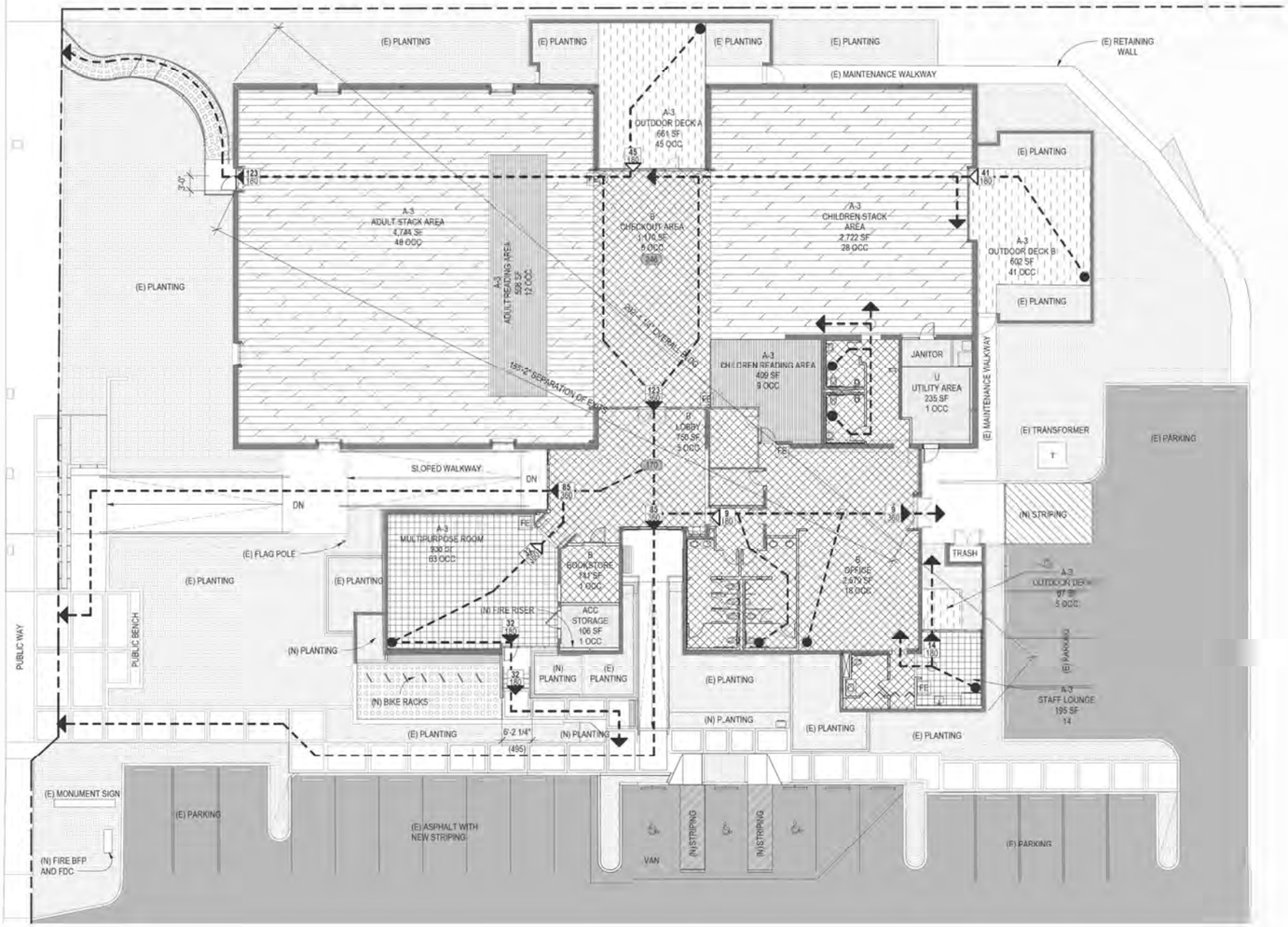
- OCCUPANCY TYPE A-3 UNCONCENTRATED ASSEMBLY
- OCCUPANCY TYPE A-3 LIBRARY READING AREA
- OCCUPANCY TYPE B, OFFICE
- OCCUPANCY TYPE U, STORAGE/UTILITY AREA
- OCCUPANCY TYPE A-3, OUTDOOR DECK
- OCCUPANCY TYPE A-3 LIBRARY STACK AREA




MEZZANINE 02
SCALE: 3/32" = 1'-0"

### SHEET NOTES

1. BUILDING IS TO BE FULLY SPRINKLERED.
   A. THE MINIMUM CAPACITY IN INCHES FOR STAIRWAYS SHALL BE .2" PER OCCUPANT PER CBC 1005.3.1
   B. THE MINIMUM CAPACITY FOR ALL OTHER EGRESS COMPONENTS SHALL BE .15" PER OCCUPANT PER CBC 1005.3.2
2. PER CBC T1006.2.1 MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE FOR SPRINKLERED A AND B TYPE OCCUPANCIES IS 75' AND 100' RESPECTIVELY
3. PER CBC T1017.2 MAXIMUM EXIT ACCESS TRAVEL DISTANCE FOR SPRINKLERED BUILDINGS FOR A AND B TYPE OCCUPANCIES IS 250' AND 300' RESPECTIVELY.




CODE & EGRESS DIAGRAM 01
SCALE: 1/32" = 1'-0"

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LICENSED ARCHITECT — STATE OF CALIFORNIA

Sheet Name: CODE AND EGRESS DIAGRAMS

Project No. 24.10 | Sheet No. A030

## ACCESSIBLE DIAGRAM LEGEND

ACCESSIBLE ROUTE

WHEELCHAIR TURNING SPACE

ALT WHEELCHAIR TURNING SPACE

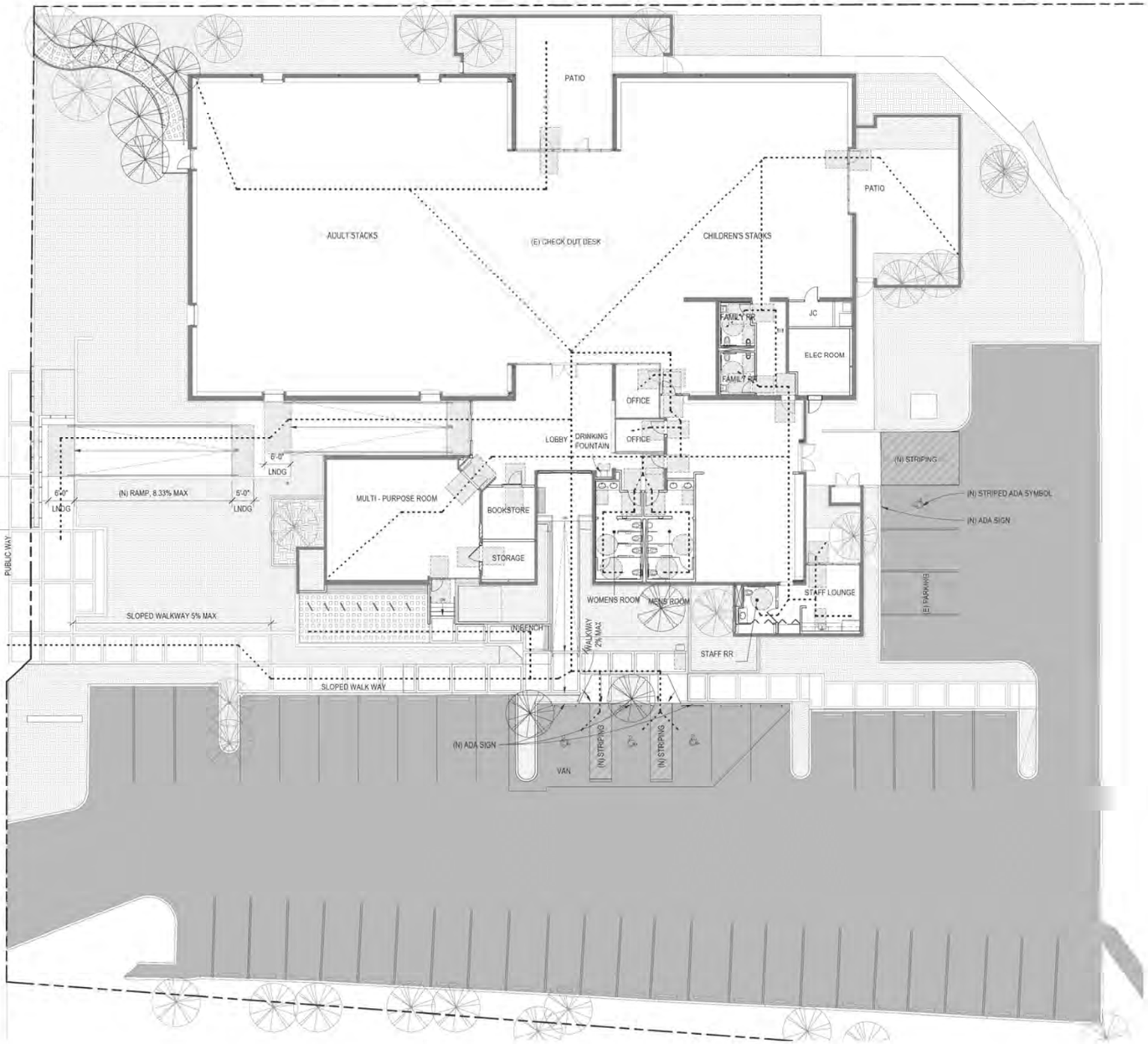
CLR FLOOR OR GROUND SPACE FOR WHEELCHAIR

DOOR CLEARANCE

GENERAL CLEARANCE

## SHEET NOTES

1. CRITERIA BASED ON 2022 CALIFORNIA BUILDING CODE AND 2010 DOJ ACCESSIBILITY STANDARDS.
2. DIAGRAMS IDENTIFIES ACCESSIBLE ROUTE AND GENERAL CLEARANCES REQUIRED WITH COMPONENTS ESTABLISHING MINIMUM CRITERIA FOR COMPLIANCE.
3. REFER TO SUBSEQUENT DRAWING SERIES FOR CONSTRUCTION DIMENSIONING.




GROUND LEVEL DISABLED ACCESS DIAGRAM 01
SCALE 3/32" = 1'-0"

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Sheet Name:
ADA DIAGRAMS

Project No.: 24.05
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A040

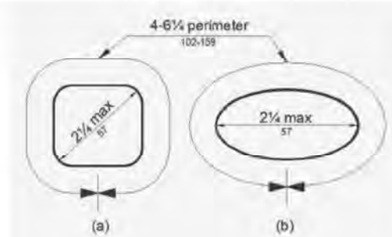


FIGURE 11B-505.7.2
HANDRAIL NON-CIRCULAR CROSS SECTION

HANDRAIL NON-CIRCULAR CROSS SECTIONS 12
SCALE: 1/2" = 1'-0"


FIGURE 11B-505.5
HANDRAIL CLEARANCE

HANDRAIL CLEARANCE 08
NTS

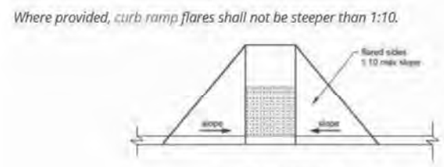


FIGURE 11B-406.2.2
SIDES OF CURB RAMPS

SIDES OF CURB RAMPS 05
NTS

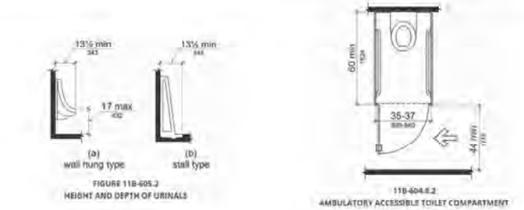


FIGURE 11B-605.2
HEIGHT AND DEPTH OF URINALS

11B-604.8.2
AMBULATORY ACCESSIBLE TOILET COMPARTMENT

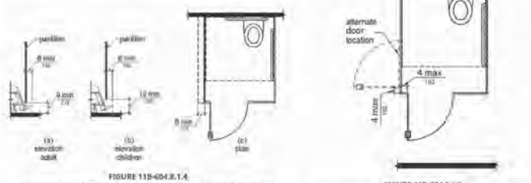


FIGURE 11B-604.8.1.4
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

FIGURE 11B-604.8.1.3
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS

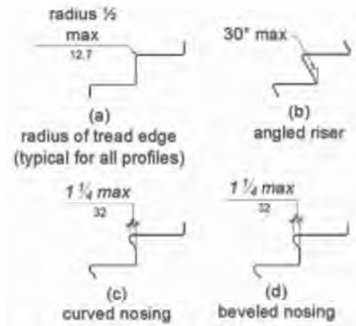


FIGURE 11B-504.5

STAIR NOSING 11
SCALE: 1/2" = 1'-0"


FIGURE 11B-505.4
HANDRAIL HEIGHT

HANDRAIL HEIGHT 07
SCALE: 1/2" = 1'-0"

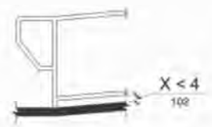


FIGURE 11B-405.9.2
CURB OR BARRIER EDGE PROTECTION

CURB OR BARRIER EDGE PROTECTION 04
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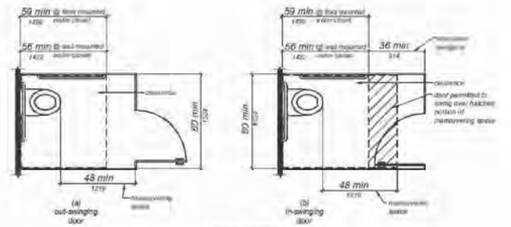



FIGURE 11B-604.8.1.1.3
MANEUVERING SPACE WITH END-OPENING DOOR

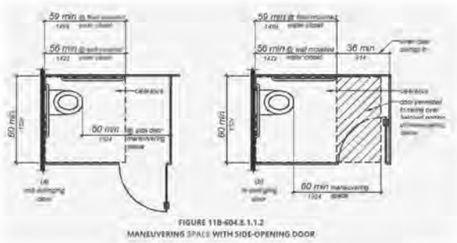
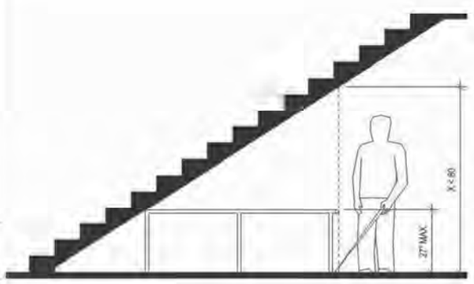



FIGURE 11B-604.8.1.1.2
MANEUVERING SPACE WITH SIDE-OPENING DOOR




VERTICAL CLEARANCE 10
SCALE: 1/2" = 1'-0"


FIGURE 11B-505.10.3
BOTTOM HANDRAIL EXTENSION AT STAIRS


FIGURE 11B-505.10.2
TOP HANDRAIL EXTENSION AT STAIRS

RAMP HANDRAIL HEIGHT AND CLEARANCE 03
NTS

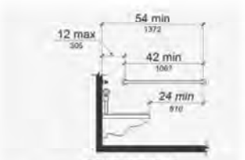



FIGURE 11B-604.5.1
SIDE WALL GRAB BAR AT WATER CLOSETS

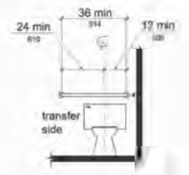
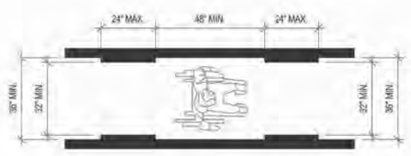



FIGURE 11B-604.5.2
REAR WALL GRAB BAR AT WATER CLOSETS




CLEAR WIDTH OF AN ACCESSIBLE ROUTE 09
SCALE: 1/2" = 1'-0"

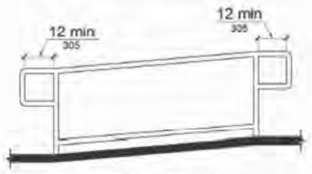



FIGURE 11B-505.10.1
TOP AND BOTTOM HANDRAIL EXTENSION AT RAMPS

HANDRAIL EXTENSIONS 06
NTS

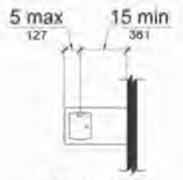



FIGURE 11B-602.5
DRINKING FOUNTAIN SPOUT LOCATION

DRINKING FOUNTAIN SPOUT LOCATION 02
NTS

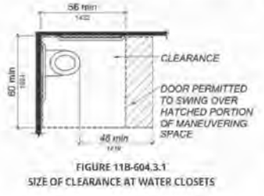



FIGURE 11B-604.3.1
SIZE OF CLEARANCE AT WATER CLOSETS

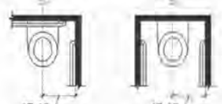



FIGURE 11B-604.2
WATER CLOSET LOCATION

WATER CLOSET CLEARANCES 01
NTS

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No. C-30356
STATE OF CALIFORNIA

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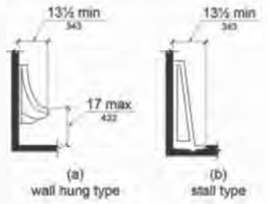
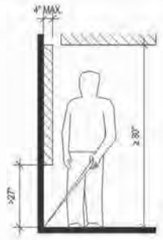
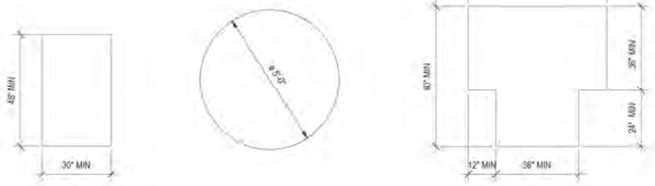



FIGURE 11B-605.2
HEIGHT AND DEPTH OF URINALS

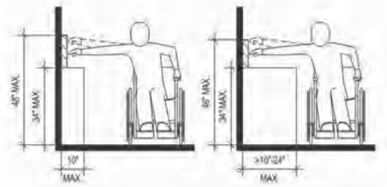
HEIGHT AND DEPTH OF URINALS NTS 17



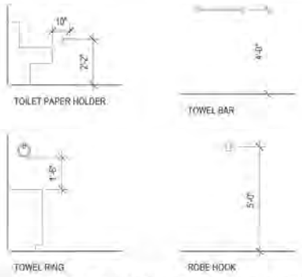

LIMITS OF POTRUDING OBJECTS NTS 13



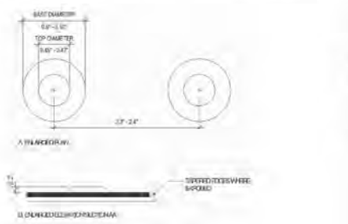

WHEELCHAIR ACCESSIBLE SPACE SCALE: 1/2" = 1'-0" 09



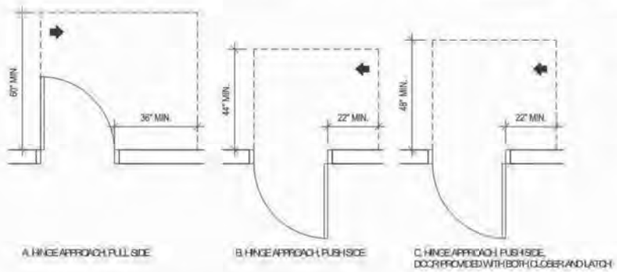

OBSTRUCTED HIGH SIDE REACH NTS 05



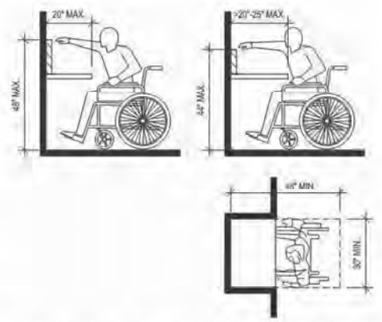

TYP. MOUNTING HEIGHTS SCALE: 3/8" = 1'-0" 16



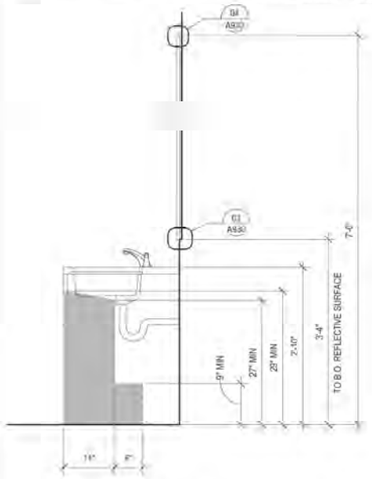

DETECTABLE WARNING SURFACE NTS 12



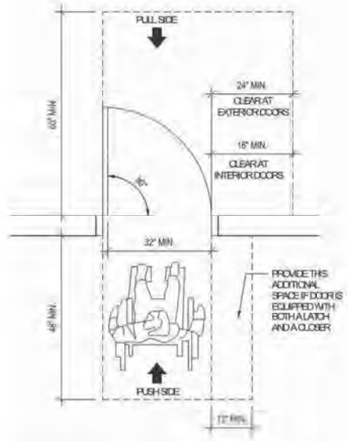

MANUEVERING CLEARANCES - HINGE APPROACH NTS 08



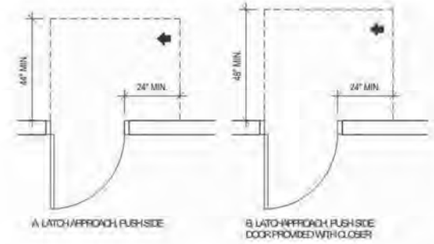

OBSTRUCTED HIGH FORWARD REACH NTS 04



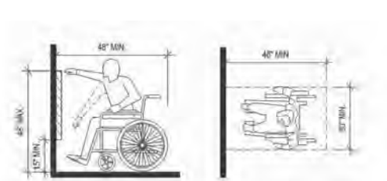

LAVATORY CLEARANCE NTS 15




DOORS AND MANUEVERING SPACE NTS 11

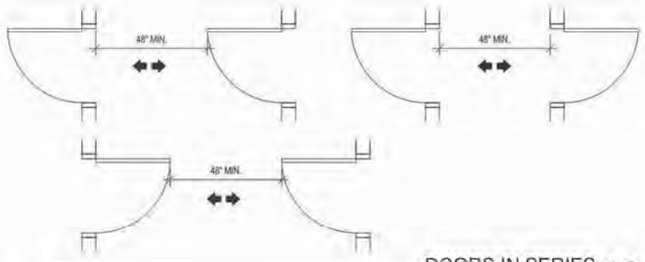



MANUEVERING CLEARANCES - LATCH APPROACH NTS 07

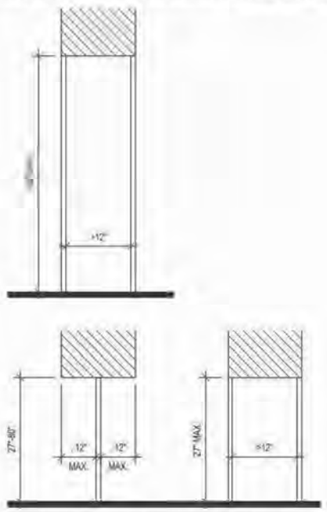



UNOBSTRUCTED FORWARD REACH NTS 03

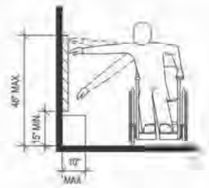

CHANGE IN LEVEL NTS 14



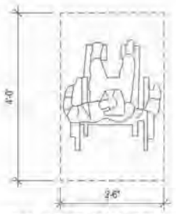

DOORS IN SERIES NTS 10




POST-MOUNTED PROTRUDING OBJECTS NTS 06




UNOBSTRUCTED SIDE REACH NTS 02




CLEAR FLOOR OR GROUND SPACE NTS 01

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Structural: kpff

Civil: UPLA STUDIO

Landscape: INTERFACE ENGINEERING

Mechanical, Electrical, Plumbing: JENSEN HUGHES

| No | Description | Date |
|---|---|---|
| | 60% CONSTRUCTION DOCUMENT | 01 MAR 2024 |
| | ISSUED FOR PERMIT | 20 MAR 2024 |

LICENSED ARCHITECT JEFFREY [illegible] C-30356 STATE OF CALIFORNIA

Sheet Name: ADA DIAGRAMS

Project No.: 24.01
Drawn By: AMM
Checked By: JMeyer
Scale: As shown

Sheet No.: A042

**11B-604.9 Water Closets and Toilet Compartments for Children's Use**

Water closets and toilet compartments for children's use shall comply with *Section 11B-604.9*. *When the exception in Section 11B-604.1 is used, the suggested dimensions of Table 11B-604.9 for a single age group shall be applied consistently to the installation of a water closet and all associated components.*

***TABLE 11B-604.9***

***SUGGESTED DIMENSIONS FOR CHILDREN'S USE***

| ***SUGGESTED DIMENSIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THROUGH 12*** | | | |
|---|---|---|---|
| | **Ages 3 and 4** | **Ages 5 through 8** | **Ages 9 through 12** |
| **Water Closet Centerline** | 12 inches (305 mm) | 12 to 15 inches (305 to 381 mm) | 15 to 18 inches (381 to 457 mm) |
| **Toilet Seat Height** | 11 to 12 inches (279 to 305 mm) | 12 to 15 inches (305 to 381 mm) | 15 to 17 inches (381 to 432 mm) |
| **Grab Bar Height** | 18 to 20 inches (457 to 508 mm) | 20 to 25 inches (508 to 635 mm) | 25 to 27 inches (635 to 686 mm) |
| **Dispenser Height** | 14 inches (356 mm) | 14 to 17 inches (356 to 432 mm) | 17 to 19 inches (432 to 483 mm) |

SUGGESTED REACH RANGES FOR CHILDREN 04
SCALE: 3/4" = 1'-0"

***11B-604.9.1 Location.*** The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (457 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (432 mm) minimum and 19 inches (483 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in Section *11B-604.8.2*. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

***11B-604.9.2 Clearance.*** Clearance around a water closet shall comply with *Section 11B-*[illegible].

***11B-604.9.3 Height.*** The height of water closets shall be 11 inches (279 mm) minimum and 17 inches (432 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

***11B-604.9.4 Grab bars.*** Grab bars for water closets shall comply with *Section 11B-604.5*.

***11B-604.9.5 Flush controls.*** Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with *Sections 11B-309.2* and *11B-309.4* and shall be installed 36 inches (914 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with *Section 11B-604.8.2*.

***11B-604.9.6 Dispensers.*** Toilet paper dispensers shall comply with *Section 11B-309.4* and shall be 7 inches (178 mm) minimum and 9 inches (229 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (356 mm) minimum and 19 inches (483 mm) maximum above the finish floor. There shall be a clearance of 1½ inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

***11B-604.9.7 Toilet compartments.*** Toilet compartments shall comply with *Section 11B-604.8*.

SUGGESTED MOUNTING HEIGHT FOR CHILDREN 03
SCALE: 3/4" = 1'-0"

**11B-604.9 Water Closets and Toilet Compartments for Children's Use**

Water closets and toilet compartments for children's use shall comply with *Section 11B-604.9*. *When the exception in Section 11B-604.1 is used, the suggested dimensions of Table 11B-604.9 for a single age group shall be applied consistently to the installation of a water closet and all associated components.*

***TABLE 11B-604.9***

***SUGGESTED DIMENSIONS FOR CHILDREN'S USE***

| ***SUGGESTED DIMENSIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THROUGH 12*** | | | |
|---|---|---|---|
| | **Ages 3 and 4** | **Ages 5 through 8** | **Ages 9 through 12** |
| **Water Closet Centerline** | 12 inches (305 mm) | 12 to 15 inches (305 to 381 mm) | 15 to 18 inches (381 to 457 mm) |
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| **Dispenser Height** | 14 inches (356 mm) | 14 to 17 inches (356 to 432 mm) | 17 to 19 inches (432 to 483 mm) |

SUGGESTED DIMENSIONS FOR CHILDREN USE 01
NTS

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LICENSED ARCHITECT JEFFREY [illegible] C-36366 RENEWAL 08/31/2021 STATE OF CALIFORNIA

Sheet Name:
ADA DIAGRAMS

Project No.: 2018
Drawn By: AMM
Checked By: JMAD
Scale: 3/4" = 1'-0"

Sheet No.:
A043


ADA SIGNAGE 02
SCALE: 1/2" = 1'-0"

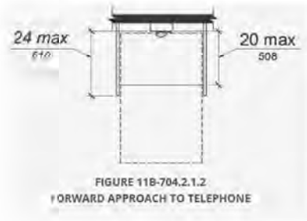



FIGURE 11B-704.2.1.2
FORWARD APPROACH TO TELEPHONE

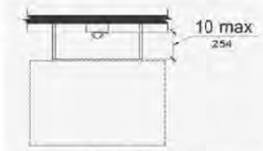
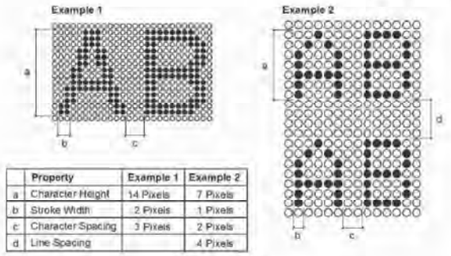



FIGURE 11B-704.2.1.1
PARALLEL APPROACH TO TELEPHONE




| | Property | Example 1 | Example 2 |
|---|---|---|---|
| a | Character Height | 14 Pixels | 7 Pixels |
| b | Stroke Width | 2 Pixels | 1 Pixels |
| c | Character Spacing | 3 Pixels | 2 Pixels |
| d | Line Spacing | | 4 Pixels |

FIGURE 11B-703.8.5
LOW RESOLUTION VMS CHARACTERS

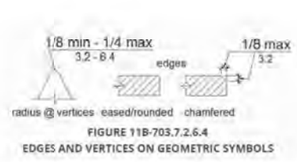



FIGURE 11B-703.7.2.6.4
EDGES AND VERTICES ON GEOMETRIC SYMBOLS

FIGURE 11B-703.7.2.4
INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS

FIGURE 11B-703.7.2.3
VOLUME CONTROL TELEPHONE

FIGURE 11B-703.7.2.2
INTERNATIONAL SYMBOL OF TTY

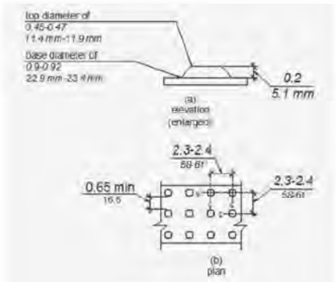



FIGURE 11B-705.1
SIZE AND SPACING OF TRUNCATED DOMES

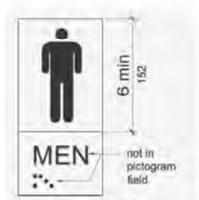



FIGURE 11B-703.6.1
PICTOGRAM FIELD

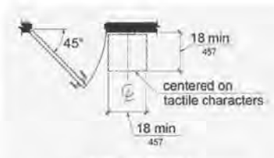



FIGURE 11B-703.4.2
LOCATION OF TACTILE SIGNS AT DOORS


FIGURE 11B-703.4.1
HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND

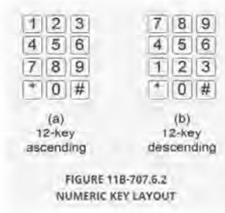



FIGURE 11B-707.6.2
NUMERIC KEY LAYOUT

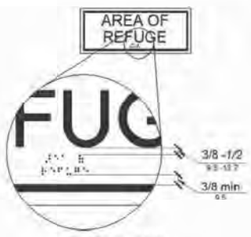



FIGURE 11B-703.3.2
POSITION OF BRAILLE

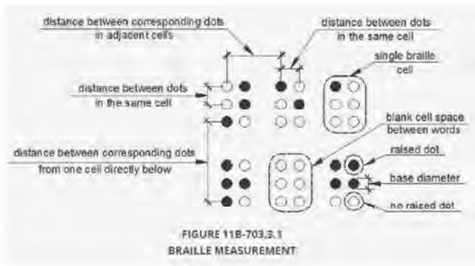



FIGURE 11B-703.3.1
BRAILLE MEASUREMENT

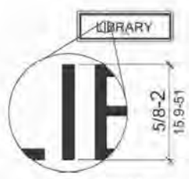



FIGURE 11B-703.2.5
HEIGHT OF RAISED CHARACTERS

BRAILLE, SIGNS, AND SYMBOLS 01
SCALE: 1/2" = 1'-0"

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LICENSED ARCHITECT
MICHAEL A. MOLINA
No. C-30966
STATE OF CALIFORNIA

ADA SIGNAGE

Project No. 21618
Drawn By: Author
Checked By: Checker
Scale: 1/2" = 1'-0"
Sheet No. A044

# AIA California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

## NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2024 Supplement)

## CHAPTER 3
## GREEN BUILDING
### SECTION 301 GENERAL

**301.1 SCOPE.** Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also provided in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

**301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG]** The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings (N) or to additions and/or alterations (A). When the code section applies to both, no banner will be used.

**301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:**

**Note:** On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seq. for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

**301.3.2 Waste Diversion.** The requirements of Section 5.408 shall be required for additions and alterations whenever permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see CBSC)
301.5 HEALTH FACILITIES. (see CBSC)

### SECTION 302 MIXED OCCUPANCY BUILDINGS

**302.4 MIXED OCCUPANCY BUILDINGS.** In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

### SECTION 303 PHASED PROJECTS

**303.1 PHASED PROJECTS.** For shell buildings and others constructed for future tenant improvement, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

**303.1.1 Initial Tenant improvements.** The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 for nonresidential additions and alterations.

### ABBREVIATION DEFINITIONS:

| | |
|---|---|
| HCD | Department of Housing and Community Development |
| BSC | California Building Standards Commission |
| DSA-SS | Division of the State Architect, Structural Safety |
| OSHPD | Office of Statewide Health Planning and Development |
| LR | Low Rise. |
| HR | High Rise. |
| AA | Additions and Alterations. |
| N | New. |

## CHAPTER 5
## NONRESIDENTIAL MANDATORY MEASURES

## DIVISION 5.1 PLANNING AND DESIGN
### SECTION 5.101 GENERAL

**5.101.1 SCOPE.**
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

### SECTION 5.102 DEFINITIONS

**5.102.1 DEFINITIONS.**
The following terms are defined in Chapter 2 (and are included here for reference):

**CUTOFF LUMINAIRES.** Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

**ELECTRIC VEHICLE (EV). [BSC-CG, HCD]** An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats and the like, are not included.

**ELECTRIC VEHICLE (EV) CAPABLE SPACE. [BSC-CG, DSA-SS and HCD]** A vehicle space with electrical panel space and load capacity to support a branch circuit and necessary raceways, both underground and/or surface mounted, to support EV charging.

**ELECTRIC VEHICLE (EV) CHARGER. [BSC-CG, HCD]** Off-board charging equipment used to charge an electric vehicle.

**ELECTRIC VEHICLE CHARGING SPACE (EV SPACE). [HCD]** A space intended for future installation of EV charging equipment and charging of electric vehicles.

**ELECTRIC VEHICLE CHARGING STATION (EVCS). [BSC-CG, DSA-SS, HCD]** One or more electric vehicle charging spaces served by EVSE or Receptacle(s).

**ELECTRIC VEHICLE (EV) READY SPACE. [HCD]** A vehicle space which is provided with a branch circuit, any necessary raceways, both underground and/or surface mounted, to accommodate EV charging, terminating in a receptacle or a charger.

**ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).[BSC-CG, DSA-SS and HCD]** The conductors, including the ungrounded, grounded and equipment grounding conductors and the electric vehicle connectors, attachment plugs, personnel protection system, and all other fittings, devices, power outlets or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

### SECTION 5.105 DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES

**5.105.1 Scope. [BSC-CG]** Effective July 1, 2024, alteration(s) to existing building(s) where the combined altered floor area is 125,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area contained with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

**[DSA-SS]** Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area contained with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

**Exception [BSC-CG, DSA-SS]:** Combined addition(s) to existing building(s) of two times the area or more of the existing building(s) is not eligible to meet compliance with Section 5.105.2.

**5.105.2 Reuse of existing building.** An alteration or addition to an existing building shall maintain a minimum 45-percent combined of the existing building's primary structural elements (foundations, columns, beams, walls, and floors; and lateral elements) and existing building enclosure (roof framing, wall framing and exterior finishes). Window assemblies, insulation, portions of buildings deemed structurally unsound or hazardous, and hazardous materials that are remediated as part of the project shall not be included in the calculation.

**5.105.2.1 Verification of compliance.** Documentation shall be provided in the construction documents to demonstrate compliance with Section 5.105.2.

**Note:** Sample Worksheet WS-3 in Chapter 8 may be used to assist in documenting compliance with this section.

**5.105.3 Deconstruction (Reserved).**

### SECTION 5.106 SITE DEVELOPMENT

**5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND.** Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

**5.106.1.1 Local ordinance.** Comply with a lawfully enacted storm water management and/or erosion control ordinance.

**5.106.1.2 Best Management Practices (BMPs).** Prevent the loss of soil through wind or water exposure by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other equal and less BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Developing activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g. Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

**5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND.** Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conservation design measures. Stormwater volume cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/water_issues/programs/stormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

**5.106.4 BICYCLE PARKING.** For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2.

**5.106.4.1 Bicycle parking. [BSC-CG]** Comply with Sections 5.106.4.1.1 and 5.106.4.1.2, or meet the applicable local ordinance, whichever is stricter.

**5.106.4.1.1 Short-term bicycle parking.** If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% or new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
**Exception:** Additions or alterations which add nine or less motor vehicular parking spaces.

**5.106.4.1.2 Long-term bicycle parking.** For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

**5.106.4.1.3** For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

**5.106.4.1.4** For new steel buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of two bicycle parking facility.

**5.106.4.1.5** Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

**Note:** Additional information on recommended bicycle accommodations may be obtained from Supplements: Area Bicycle Advocates.

**5.106.4.2 Bicycle parking. [DSA-SS]** For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2.

**5.106.4.2.1 Student bicycle parking.** Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
**5.106.4.2.2 Staff bicycle parking.** Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

**5.106.5.3 Electric vehicle (EV) charging. [N] [BSC-CG]** Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 Electric vehicle charging stations and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 Electric vehicle charging stations (EVCS)—Power allocation method and associated Table 5.106.5.3.6 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

**Exceptions:**

1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section.

**5.106.5.3.1 EV capable spaces. [N]** EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

**Note:** A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1

| TOTAL NUMBER OF ACTUAL PARKING SPACES | NUMBER OF REQUIRED EV CAPABLE SPACES | NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)[2,3] |
|---|---|---|
| 0-9 | 0 | 0 |
| 10-25 | 2 | 0 |
| 26-50 | 5 | 2 |
| 51-75 | 13 | 3 |
| 76-100 | 17 | 4 |
| 101-150 | 25 | 6 |
| 151-200 | 35 | 9 |
| 201 AND OVER | 20 percent of actual parking spaces[1] | 25 percent of EV capable spaces[1] |

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count toward the total number of required EV capable spaces shown in column 2.
3. At least one Level 2 EVSE shall be provided.

**5.106.5.3.2 Electric vehicle charging stations (EVCS)** EV capable spaces shall be provided with electric vehicle supply equipment (EVSE) to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 shall be provided with Level 2 EVSE or DCFC as permitted in Section 5.106.5.3.2.1. At least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

**5.106.5.3.2.1** The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE or EVCS with Level 2 EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

**5.106.5.3.2.2** The installation of two low power Level 2 EV charging receptacles shall be permitted to reduce the minimum number of required EV capable spaces without EVSE in Table 5.106.5.3.1 by one.

**5.106.5.3.3 Use of automatic load management systems (ALMS).**
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 20 kilowatts (kW) of power when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

**5.106.5.3.4 Accessible EVCS.**
When EVSE is installed, accessible EVSE shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3.

**Note:** For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

**5.106.5.3.4 Accessible electric vehicle charging station (EVCS).** When EVSE is installed, accessible EVCS shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3.

**5.106.5.3.5 Electric vehicle charging station signage.** Electric vehicle charging stations shall be identified by signage or pavement markings in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

Power allocation method shall include the following:

1. Use any kVA combination of EV capable spaces, low power Level 2, Level 2 or DCFC EVSEs.
2. At least one Level 2 EVSE shall be provided.

**5.106.5.3.6 Electric vehicle charging stations (EVCS)—power allocation method.** The power allocation method may be used as an alternative to the requirements in Section 5.106.5.3.1. Section 5.106.5.3.2 and associated Table 5.106.5.3.1. Use Table 5.106.5.3.6 to determine the total power in kVA required based on the total number of actual parking spaces.

TABLE 5.106.5.3.6

| TOTAL NUMBER OF ACTUAL PARKING SPACES | MINIMUM TOTAL kVA @ 6.6 kVA | TOTAL kVA REQUIRED IN ANY COMBINATION OF EV CAPABLE,3,4 LOW POWER LEVEL 2, LEVEL 2, 1, 2 OR DCFC |
|---|---|---|
| 0-9 | 0 | 0 |
| 10-25 | 26.4 | 26.4 |
| 26-50 | 52.8 | 52.8 |
| 51-75 | 85.8 | 85.8 |
| 76-100 | 112.2 | 112.2 |
| 101-150 | 165 | 165 |
| 151-200 | 231 | 231 |
| 201 AND OVER | 20 percent of actual parking spaces x 6.6 | Total required kVA = P × 20 = 6.6 Where P = Parking spaces in facility |

1. Level 2 EVSE @ 6.6 kVA minimum.
2. At least one Level 2 EVSE shall be provided.
3. Maximum allowed kVA to be utilized for EV capable spaces is 76 percent.
4. If EV capable spaces are utilized, they shall meet the requirements of Section 5.106.5.3.1 EV capable spaces.

**5.106.5.4 Additions or alterations to existing buildings or parking facilities [A] [BSC-CG]** Existing buildings or parking facilities being modified by one of the following shall comply with Section 5.106.5.4.1 or 5.106.5.4.2. When EVSE is installed, accessible EVCS shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3.

1. When the scope of construction work includes an increase in power supply to an electric service panel as part of a parking facility addition or alteration.
2. When a new photovoltaic system is installed covering existing parking spaces.
3. When additions or alterations to existing buildings are triggered pursuant to more Section 301.3 and the scope of work includes an increase in power supply to an electric service panel.

**Exceptions:**

1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
   d. Where demonstrated as impracticable excluding local utility service or utility infrastructure issues.
2. Remote parking facilities that do not have access to the building service panel.
3. Parking area lighting upgrades where no trenching is part of the scope of work.
4. Emergency repairs, including but not limited to water line break in parking facilities, natural disaster repairs, etc.

**5.106.5.4.1 Existing buildings or parking areas without previously installed EV capable infrastructure [A].** When EV capable infrastructure does not exist at an existing parking facility or building, and the parking facility or building undergoes an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 for the total number of actual parking spaces being added or altered.

**5.106.5.4.2 Existing buildings or parking areas with previously installed EV capable infrastructure [A].** When EV capable infrastructure is available at an existing parking facility or building, and the parking facility or building is undergoing an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 utilizing the existing EV capable allocated power and infrastructure for the total number of actual parking spaces being added or altered. If the area being added or altered exceeds the existing EV capable capacity, assumed power and infrastructure, provide additional EV charging as needed to comply with this section.

**5.106.5.5 Electric vehicle (EV) charging, medium-duty and heavy-duty. [N] [BSC-CG]** Construction shall comply with Section 5.106.5.5.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores, office buildings, and manufacturing facilities with planned off-street loading spaces shall also comply with Section 5.106.5.5.1 for future installation of medium- and heavy-duty EVSE.

**Exceptions.**
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:

**5.106.5.5.1 Electric vehicle charging readiness requirements for warehouses, grocery stores, office buildings, and manufacturing facilities and retail stores with planned off-street loading spaces. [N]**

In order to avoid future demolition when adding EV supply and distribution equipment, spare raceway(s) or busway(s) and accessible capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The transformer, main service equipment and subpanels shall meet the minimum power requirement in Table 5.106.5.5.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate one or more location(s) convenient to the planned off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s), as shown in Table 5.106.5.5.1.
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area shall where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipment for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be of sufficient size to carry the minimum additional ampere load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.5.1.

TABLE 5.106.5.5.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE.(N)

| BUILDING TYPE | BUILDING SIZE (SQ. FT.) | NUMBER OF OFF-STREET LOADING SPACES | ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL |
|---|---|---|---|
| Grocery | 10,000 to 90,000 | 1 or 2 | 200 |
| | | 3 or Greater | 400 |
| | Greater than 90,000 | 1 or Greater | 400 |
| Manufacturing Facilities | 10,000 to 50,000 | 1 or 2 | 200 |
| | 10,000 to 50,000 | 3 or Greater | 400 |
| | Greater than 50,000 | 1 or Greater | 400 |
| Office Buildings | 10,000 to 135,000 | 1 or 2 | 200 |
| | 10,000 to 135,000 | 3 or Greater | 400 |
| | Greater than 135,000 | 1 or Greater | 400 |
| Retail | 10,000 to 133,000 | 1 or 2 | 200 |
| | | 3 or Greater | 400 |
| | Greater than 133,000 | 1 or Greater | 400 |
| Warehouse | 20,000 to 256,000 | 1 or 2 | 200 |
| | | 3 or Greater | 400 |
| | Greater than 256,000 | 1 or Greater | 400 |

**5.106.5.9 Electric vehicle (EV) charging at public schools and community colleges. [DSA-SS]** Electric vehicle infrastructure and electric vehicle charging stations shall comply with Section 5.106.5.6 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

**Exceptions:**
1. On a case-by-case basis where compliance with this section has been demonstrated to be not feasible based upon one of the following conditions and with concurrence by the Division of the State Architect (DSA), compliance with Section 5.106.5.6 shall not be required:
   a. Where there is no local utility power supply.
   b. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
   c. The installation of EVCS is impracticable.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with Section 5.106.5.6.

**5.106.5.6.1 EV capable spaces.** EV capable spaces shall be provided in accordance with Table 5.106.5.6.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area and shall terminate in close proximity to the proposed location of the EV capable space and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV capable spaces.
2. A service panel or subpanel(s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

TABLE 5.106.5.6.1

| TOTAL NUMBER OF ACTUAL PARKING SPACES | NUMBER OF REQUIRED EV CAPABLE SPACES | NUMBER OF REQUIRED EVCS |
|---|---|---|
| 0-9 | 0 | 0 |
| 10-25 | 4 | 1 |
| 26-50 | 8 | 2 |
| 51-75 | 13 | 3 |
| 76-100 | 17 | 4 |
| 101-150 | 25 | 6 |
| 151-200 | 35 | 9 |
| 201 AND OVER | 20 percent of total spaces[1] | 25 percent of EV capable spaces[1] |

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. Each EVCS shall reduce the number of required EV capable spaces by the same number.

**5.106.5.6.2 Electric vehicle charging stations (EVCS).** EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.6.1 and shall comply with Section 5.106.5.6.2. EVCS shall be serviced by Level 2 or Direct Current Fast Charging (DCFC) EVSE, or with EVSE in any combination of Level 2 and DCFC. Accessible EVCS shall be provided in accordance with California Building Code Chapter 11B.



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Sheet No. A050

# AIA California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
## NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (July 2024 Supplement)

**5.106.5.6.2-1 Required number of EV capable spaces.** The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces indicated in Table 5.106.5.6.1 by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

**5.106.5.6.2.2 Multiple connectors.** EVSE with multiple vehicle connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.6.1 for each EV capable space is proportionately supplied to the EVSE.

**5.106.5.6.2.3 Use of automatic load management systems (ALMS).** ALMS shall be permitted for EVCS installed in accordance with Section 5.106.5.6.2. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.6.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

**5.106.5.6.3 EVCS alternative compliance.** In lieu of compliance with Section 5.106.5.6.2, EVCS shall be provided with Level 1, low power Level 2, or Level 2, or any combination of Level 1, low power Level 2 or Level 2 EVSE, such that the total power supplied by the combination of EVSE meets the minimum power indicated in Table 5.106.5.6.3, based on the total number of actual parking spaces in each parking facility.

| TABLE 5.106.5.6.3 | |
|---|---|
| NUMBER OF PARKING SPACES IN A PARKING FACILITY | MINIMUM TOTAL POWER (KVA) REQUIRED FOR EVCS |
| 10-0 | 0 |
| 10-25 | 7 |
| 26-50 | 14 |
| 51-75 | 29 |
| 76-100 | 29 |
| 101-150 | 49 |
| 151-200 | 60 |
| 201 AND OVER | Total required KVA = P × .05 + 6.0<br>Where: P = Parking spaces in facility |

**5.106.5.6.4 EVCS for alterations of or additions to parking facilities.** Alterations of or additions to parking facilities shall provide EVCS in compliance with Section 5.106.5.6.4. The installation of infrastructure for EV capable spaces installed to be provided without EVSE, shall not be required.

**5.106.5.6.4.1 Alterations of and additions to parking facilities.** EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or minimum power indicated in Table 5.106.5.6.3 when the scope of work includes an increase in power supply to an electric panel serving light fixtures illuminating the parking area or when area containing parking spaces is added to a parking facility. The number of required EVCS shall be based on the total number of existing and new parking spaces in the parking facility.

**5.106.5.6.4.2 Alterations consisting of the installation of photovoltaic systems.** EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or maximum power indicated in Table 5.106.5.6.3 , when a new photovoltaic system is installed in an existing parking facility.

**5.106.5.6.5 Requirement to install EVSE.** Level 2 EVSE shall be provided in all existing EV capable spaces to create EVCS when a project is required by California Administrative Code Section 4.309 to be submitted for plan approval to the Division of the State Architect. When EVSE is installed in existing EV capable spaces, accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

**Exception:** Projects in which improvements in parking area scored only of accessibility improvements are not required to comply with Section 5.106.5.6.5.

**5.106.8 LIGHT POLLUTION REDUCTION. [N].** Outdoor lighting systems shall be designed and installed to comply with the following:

1. The maximum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code, and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8), Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8. [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

**Exceptions: [N]**

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code
2. Emergency lighting
3. Building facades meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS [1]

| ALLOWABLE RATING | LIGHTING ZONE 0Z0 | LIGHTING ZONE 1Z1 | LIGHTING ZONE 2Z2 | LIGHTING ZONE 3Z3 | LIGHTING ZONE 4Z4 |
|---|---|---|---|---|---|
| **MAXIMUM ALLOWABLE BACKLIGHT RATING [2]** | | | | | |
| Luminaire greater than 2 mounting heights (MH) from property line | N/A | No Limit | No Limit | No Limit | No Limit |
| Luminaire back hemisphere is 1-2 MH from property line | N/A | B2 | B3 | B4 | B4 |
| Luminaire back hemisphere is 0.5-1 MH from property line | N/A | B1 | B2 | B3 | B3 |
| Luminaire back hemisphere is less than 0.5 MH from property line | N/A | B0 | B0 | B1 | B2 |
| **MAXIMUM ALLOWABLE UPLIGHT RATING [3]** | | | | | |
| For area lighting | N/A | U0 | U0 | U0 | U1 |
| For all other outdoor lighting,including decorative luminaires | N/A | U1 | U2 | U3 | U3 |
| **MAXIMUM ALLOWABLE GLARE RATING [3] (G)** | | | | | |
| **MAXIMUM ALLOWABLE GLARE RATING [3] (G)** | N/A | G1 | G2 | G3 | G4 |
| **MAXIMUM ALLOWABLE GLARE RATING [3] (G)** | N/A | G0 | G1 | G1 | G2 |
| **MAXIMUM ALLOWABLE GLARE RATING [3] (G)** | N/A | G0 | G0 | G1 | G1 |
| **MAXIMUM ALLOWABLE GLARE RATING [3] (G)** | N/A | G0 | G0 | G0 | G1 |

1. TESMA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the California Administrative Code.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, aisles or storage lots shall meet these minimum ratings. Decorative luminaires located in these areas shall meet Uplight limits for "all other outdoor lighting."

**5.106.8.1 Facing- Backlight.** Luminaires within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.

**Exception: Corners.** If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest point(s) on the property lines to determine the required backlight rating.

**5.106.8.2 Facing Glare.**
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

**Note: [N]**
1. See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

**5.106.10 GRADING AND PAVING.** Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems
3. French drains.
4. Water retention gardens
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

**Exception:** Additions and alterations not altering the drainage path.

**5.106.12 SHADE TREES [DSA-SS].** Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Plantings shown shall be measured at nore to be warmer within 5 landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

**5.106.12.1 Surface parking areas.** Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years:

**Exceptions:** Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table AE 106.11.2.2 in Appendix AE shall be permitted in whole or in part in lieu of shade tree planting.

**5.106.12.2 Landscape areas.** Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

**Exceptions:** Playfields for organized sport activity are not included in the total area calculation.

**5.106.12.3. Hardscape areas.** Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

**Exceptions:**
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table AS 106.11.2.2 in Appendix AS shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

## DIVISION 5.2 ENERGY EFFICIENCY

### SECTION 5.201 GENERAL

**5.201.1 Scope [BSC-CG].** *California Energy Code [DSA-SS].* For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

## DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

### SECTION 5.301 GENERAL

**5.301.1 Scope.** The provisions of this chapter shall establish the means of conserving water with indoor, outdoor and ex-residential components.

### SECTION 5.302 DEFINITIONS

**5.302.1 Definitions.** The following terms are defined in Chapter 2 (*and are included here for reference*).

**EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS].** An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which as two most influences on the amount of water that needs to be applied to the landscape.

**FOOTPRINT AREA [DSA-SS].** The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

**METERING FAUCET.** A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

**GRAYWATER.** Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by untreated/not processing, manufacturing, or repairing wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

**MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO).** The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on wateshed area and climatological parameters.

**MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD]** The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

**POTABLE WATER.** Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

**POTABLE WATER. [HCD]** Water that is satisfactory for drinking, culinary and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

**RECYCLED WATER.** Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur (Water Code Section 13050 (n)). Simply put, recycled water is water treated to remove waste matter allowing a quality that is suitable to use this water again.

**SUBMETER. [HCD 1]** A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

**WATER BUDGET.** Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

### SECTION 5.303 INDOOR WATER USE

**5.303.1 METERS.** Separate submeters or metering devices shall be installed for the uses described in Sections 303.1.1 and 503.1.3.

**5.303.1.1 Buildings in excess of 50,000 square feet.** Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.4 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

**5.303.1.2 Excess consumption.** A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

**5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS.** Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

**5.303.3.1 Water Closets.** The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

**Note:** The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

**5.303.3.2 Urinals.**
**5.303.3.2.1 Wall-mounted Urinals.** The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

**5.303.3.2.2 Floor-mounted Urinals.** The effective flush volume of floor mounted or other urinals shall not exceed 0.5 gallons per flush.

**5.303.3.3 Showerheads. [BSC-CG]**
**5.303.3.3.1 Single showerhead.** Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

**5.303.3.3.2 Multiple showerheads serving one shower.** When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
**Note:** A hand-held shower shall be considered a showerhead.

**5.303.3.4 Faucets and fountains.**
**5.303.3.4.1 Nonresidential Lavatory faucets.** Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

**5.303.3.4.2 Kitchen faucets.** Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

**5.303.3.4.3 Wash fountains.** Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 (rim space (inches) at 60 psi).

**5.303.3.4.4 Metering faucets.** Metering faucets shall not deliver more than 0.28 gallons per cycle.

**5.303.3.4.5 Metering faucets for wash fountains.** Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 (rim space (inches) at 60 psi).

**Note:** Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

**5.303.3.4.6 Pre-rinse spray valve**
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

**FOR REFERENCE ONLY:** The following table and code sections have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2
STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019

| PRODUCT CLASS (spray force in ounce force (ozf)) | MAXIMUM FLOW RATE (gpm) |
|---|---|
| Product Class 1 (≤ 5.0 ozf) | 1.00 |
| Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf) | 1.20 |
| Product Class 3 (> 8.0 ozf) | 1.28 |

**5.303.4 COMMERCIAL KITCHEN EQUIPMENT.**

**5.303.4.1 Food Waste Disposers.** Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/recharged) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
**Note:** This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

**5.303.5 AREAS OF ADDITION OR ALTERATION.** For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

**5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS.** Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

### SECTION 5.304 OUTDOOR WATER USE

**5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.** Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

**Notes:**
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at https://www.water.ca.gov/.

**5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.** For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

**Exception** Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

**5.304.6.1 Newly constructed landscapes.** New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

**5.304.6.2 Rehabilitated landscapes.** Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

## DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

### SECTION 5.401 GENERAL

**5.401.1 SCOPE.** The provisions of this chapter specify the requirements of achieving material conservation, resource efficiency, and greenhouse gas (GHG) emission reduction through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, the installation of products with lower GHG emissions and building commissioning or testing and adjusting.

### SECTION 5.402 DEFINITIONS

**5.402.1 DEFINITIONS.** The following terms are defined in Chapter 2 (*and are included here for reference*)

**ADJUST.** To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

**BALANCE.** To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

**BUILDING COMMISSIONING.** A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

**BUY CLEAN CALIFORNIA ACT (BCCA).** The Buy Clean California Act (BCCA) (Public Contract Code Sections 3500-3505) targets carbon emissions associated with the production of structural steel (hot-rolled sections, hollow structural sections, and plate), concrete reinforcing steel, flat glass, and mineral wool board insulation. The maximum acceptable global warming potential (GWP) limits are established by the Department of General Services (DGS), in consultation with the California Air Resources Board (CARB).

**CRADLE-TO-GRAVE.** Activities associated with a product or building's life cycle from the extraction stage through disposal stage, and covering modules A1 through C4 in accordance with ISO Standards 14025 and 21930.

**ORGANIC WASTE.** Food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

**REFERENCE STUDY PERIOD.** The period of use for the building, in years, that will be assessed for life cycle assessment.

**TEST.** A procedure to determine quantitative performance of a system or equipment.

**TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD).** A third-party verified report that summarizes how a product impacts the environment. Type III EPDs can be either product-specific, factory-specific, or industry-wide EPD. See "Cradle-to-Gate."

**FACTORY-SPECIFIC EPD.** A product-specific Type III EPD in which the environmental impacts can be attributed to a single manufacturer and manufacturing facility.

**INDUSTRY-WIDE EPD (IW-EPD).** A Type III EPD in which the environmental impacts are an average of the typical manufacturing impacts for a range of products within the same product category for a group of manufacturers.

**PRODUCT-SPECIFIC EPD.** A Type III EPD in which the environmental impacts can be attributed to a product design and manufacturer across multiple facilities.

### SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

**5.407.1 WEATHER PROTECTION.** Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

**5.407.2 MOISTURE CONTROL.** Employ moisture control measures by the following methods:

**5.407.2.1 Sprinklers.** Design and maintain landscape irrigation systems to prevent spray on structures.

**5.407.2.2 Entries and openings.** Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

**5.407.2.2.1 Exterior door protection.** Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

**5.407.2.2.2 Flashing.** Install flashings integrated with a drainage plane.

### SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

**5.408.1 CONSTRUCTION WASTE MANAGEMENT.** Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3, or meet a local construction and demolition waste management ordinance, whichever is more stringent.

**5.408.1.1 Construction waste management plan.** Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both

**5.408.1.2 Waste Management Company.** Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

**Note:** The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

**Exceptions to Sections 5.408.1.1 and 5.408.1.2:**

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

**5.408.1.3 Waste stream reduction alternative.** The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

**5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1. through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

**Notes:**

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

**5.408.2 UNIVERSAL WASTE. [A]** Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

**Note:** Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

**5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS.** 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

**Exception:** Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

**Notes:**

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

### SECTION 5.409 LIFE CYCLE ASSESSMENT

**5.409.1 SCOPE. [BSC-CG].** Effective July 1, 2024, projects consisting of newly constructed building(s) with a combined floor area of 100,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

**[DSA SS]** Projects consisting of newly constructed building(s) with a combined floor area of 50,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

**DISCLAIMER:** *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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CAL GREEN CODE DOCUMENTATION

Project No. 24.07
Drawn By: Author
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Sheet No. A051

# AIA California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

## NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (July 2024 Supplement)

**5.409.2 Whole building life cycle assessment.** Projects shall conduct a cradle-to-grave whole building life cycle assessment performed in accordance with ISO 14040 and ISO 14044, excluding operating energy and demonstrating a minimum 10-percent reduction in global warming potential (GWP) as compared to a reference baseline building of similar size, function, complexity, type of construction, material specification, and location that meets the requirements of the California Energy Code currently in effect. Software used to conduct the whole building life cycle assessment, including reference baseline building, shall have a data set compliant with ISO 14044, and ISO 21930 or EN 15804, and the software shall conform to ISO 21931 and/or EN 15978. The software tools and data used shall be the same for evaluation of both the baseline building and the proposed building.

**Notes:**

1. Software for calculating whole building life cycle assessment is available for free at Athena Sustainable Materials Institute (https://calculatelca.com/software/impact-estimator/) and OneClick LCA Planetary (www.oneclicklca.com/planetary). Paid versions include, but are not limited to, Ephers Gaia Solutions (gaia.ephera.com), BimaPro (simapro.com), One-Click LCA (www.oneclicklca.com) and Tally for Revit (apps.autodesk.com).

2. ASTM E2921-22 "Standard Practice for Minimum Criteria for Comparing Whole Building Life Cycle Assessments for Use with Building Codes, Standards, and Rating Systems" may be consulted for the assessment.

3. In addition to the required documentation specified in Section 5.409.2.3, Worksheet WS-9 may be required by the enforcing entity to demonstrate compliance with the requirements.

**5.409.2.1 Building components.** Building enclosure components included in the assessment shall be limited to glazing assemblies, insulation, and exterior finishes. Primary and secondary structural members included in the assessment shall be limited to footings and foundations, and structural columns, beams, walls, roofs, and floors.

**5.409.2.2 Reference study period.** The reference study period of the proposed building shall be equal to the reference baseline building and shall be 60 years.

**5.409.2.3 Verification of compliance.** A summary of the GWP analysis prepared by the software and Worksheet WS-4 signed by the design professional of record shall be provided in the construction documents as documentation of compliance. A copy of the whole building life cycle assessment which includes the GWP analysis produced by the software, in addition to maintenance and training information, shall be included in the operation and maintenance manual and shall be provided to the owner at the time of construction. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

**5.409.3 Product GWP compliance—prescriptive path.** Each product that is permanently installed and listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific.

TABLE 5.409.3
PRODUCT GWP LIMITS

| BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY[1] | MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) ($GWP_{allowed}$) | UNIT OF MEASUREMENT |
|---|---|---|
| Hot-rolled structural steel sections | 1.77 | MT $CO_2e$/MT |
| Hollow structural sections | 3.00 | MT $CO_2e$/MT |
| Steel plate | 2.61 | MT $CO_2e$/MT |
| Concrete reinforcing steel | 1.56 | MT $CO_2e$/MT |
| Flat glass | 2.50 | MT $CO_2e$/MT [4] |
| Light-density mineral wool board insulation | 5.83 | kg $CO_2e$/MT |
| Heavy-density mineral wool board insulation | 14.28 | kg $CO_2e$/MT |

**Concrete, Ready-Mixed[2, 3]**

| CONCRETE PRODUCT CATEGORY | MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$) | UNIT OF MEASUREMENT |
|---|---|---|
| up to 2499 psi | 450 | kg $CO_2e/m^3$ |
| 2500–3499 psi | 489 | kg $CO_2e/m^3$ |
| 3500–4499 psi | 583 | kg $CO_2e/m^3$ |
| 4500–5499 psi | 641 | kg $CO_2e/m^3$ |
| 5500–6499 psi | 701 | kg $CO_2e/m^3$ |
| 6500 psi and greater | 799 | kg $CO_2e/m^3$ |

**Concrete, Lightweight Ready-Mixed[2]**

| CONCRETE PRODUCT CATEGORY | MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$) | UNIT OF MEASUREMENT |
|---|---|---|
| up to 2499 psi | 575 | kg $CO_2e/m^3$ |
| 2500–3499 psi | 658 | kg $CO_2e/m^3$ |
| 3500–4499 psi | 1020 | kg $CO_2e/m^3$ |

1. The GWP values of the products listed in Table 5.409.3 are based on 11% percent of Buy Clean California Act (BCCA) GWP values, except for concrete products which are not included in the BCCA.
2. For concrete, 175 percent of the National Ready Mixed Concrete Association (NRMCA) 2022 version 3 Pacific Southwest regional benchmark values are used for the GWP allowed, except for High Early Strength 3. Concrete High Early Strength ready-mixed shall be calculated at 130 percent of the ready-mixed concrete GWP allowed values for each product category.
4. The GWP unit for flat glass has been adjusted to correct an error in the express terms. With the revised unit (MT $CO_2e$/MT), reported GWP values will align with industry data as published in the CLF North American Material Baselines (2023).

**5.409.3.1** Products shall not exceed the maximum GWP value specified in Table 5.409.3.

**Exception:** Concrete may be considered one product category to meet compliance with this section. A weighted average of the maximum GWP for all concrete mixes installed in the project shall be less than the weighted average maximum GWP allowed per Table 5.409.3 using Exception Equation 5.409.3.1. Calculations shall be performed with consistent units of measurement for the material quantity and the GWP value.

For the purposes of this exception, industry-wide EPDs are acceptable.

**Exception EQUATION 5.409.3.1**

$GWP_{tv} \le GWP_{allowed}$

where

$GWP_{tv} = \Sigma\ (GWP_i)(v_i)$

and

$GWP_{allowed} = \Sigma\ (GWP_{allowed})(v_i)$

and

$_i$ = each concrete mix installed in the project

$GWP_i$ = the GWP for concrete mix $_i$ per nonstructural EPD, in kg $CO_2e$/m$^3$

$GWP_{allowed}$ = the GWP potential allowed for concrete mix $_i$ per Table 5.409.3

$v_i$ = the volume of concrete mix $_i$ installed in the project, in m3

**5.409.3.2 Verification of compliance.** Calculations to demonstrate compliance, Type III EPDs for products required to comply, if included in the project, and Worksheet WS-5 signed by the design professional of record shall be provided on the construction documents. Updated EPDs for products used in construction shall be provided to the owner at the close of construction and to the enforcement entity upon request. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

## SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

**5.410.1 RECYCLING BY OCCUPANTS.** Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

**Exception:** Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) at last shall also be exempt from the organic waste portion of this section.

**5.410.1.1 Additions.** All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

**Exception:** Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

**5.410.1.2 Sample ordinance.** Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

**Note:** A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

**5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over.** For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I occupancies that are not regulated by OSHPD or for I occupancies and I occupancies that are not regulated by the California Energy Code Section 100.0 Range, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

**Note:** For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements.

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

**Exceptions:**

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

**Note:** For purposes of this section, unconditioned shall mean a building, area or room which does not provide heating and/or air conditioning.

**Informational Notes:**

1 Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.

**5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N]** The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:

1. Environmental and sustainability goals.
2. Building resilience goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

**5.410.2.2 Basis of Design (BOD). [N]** A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

**5.410.2.3 Commissioning plan. [N]** Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:

1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

**5.410.2.4 Functional performance testing. [N]** Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

**5.410.2.5 Documentation and training. [N]** A Systems Manual and Systems Operations Training are required including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations.

**5.410.2.5.1 Systems manual. [N]** Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:

1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

**5.410.2.5.2 Systems operations training. [N]** A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:

1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

**5.410.2.6 Commissioning report. [N]** A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner as recommissioning.

**5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet.** Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

**5.410.4.2 (Reserved)**

**Note:** For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

**5.410.4.3 Systems.** Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include all a minimum, as applicable to the project.

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

**5.410.4.3 Procedures.** Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

**5.410.4.3.1 HVAC balancing.** In addition to testing and adjusting, before a new space conditioning system serving a building or space is operated for normal use, this system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.

**5.410.4.4 Reporting.** After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

**5.410.4.5 Operation and maintenance (O & M) manual.** Provide the building owner or representative with detailed operating and maintenance instructions and copies of guarantee/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 3141, and other related regulations.

**5.410.4.5.1 Inspections and reports.** Include a copy of all inspection verifications and reports required by the enforcing agency.

## DIVISION 5.5 ENVIRONMENTAL QUALITY

## SECTION 5.501 GENERAL

**5.501.1 SCOPE.** The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's inhabitants, occupants and neighbors.

## SECTION 5.502 DEFINITIONS

**5.502.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference):

**ARTERIAL HIGHWAY.** A general term denoting a highway primarily for through traffic usually on a continuous route.

**A-WEIGHTED SOUND LEVEL (dBA).** The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

**1 BTU/HOUR.** British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu; the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit.

**COMMUNITY NOISE EQUIVALENT LEVEL (CNEL).** A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

**COMPOSITE WOOD PRODUCTS.** Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

**Note:** See CCR, Title 17, Section 93120.1.

**DAY-NIGHT AVERAGE SOUND LEVEL (Ldn).** The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

**DECIBEL (dB).** A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

**ELECTRIC VEHICLE (EV).** An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other sources of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground-support equipment, tractors, boats, and the like, are not included.

**ELECTRIC VEHICLE CHARGING STATION(S) (EVCS).** One or more spaces intended for charging electric vehicles.

**ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).** The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

**ENERGY EQUIVALENT (NOISE) LEVEL (Leq).** The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

**EXPRESSWAY.** An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

**FREEWAY.** A divided arterial highway with full control of access and with grade separations at intersections.

**GLOBAL WARMING POTENTIAL (GWP).** The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

**GLOBAL WARMING POTENTIAL VALUE (GWP VALUE).** A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995) or its Fourth Assessment (AR4) Report (AR4) (IPCC 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14. The AR4 GWP values are found in column "100 yr" of Table 2.14.

**HIGH-GWP REFRIGERANT.** A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hydrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (b) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

**LONG RADIUS ELBOW.** Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction with a radius 1.5 times the pipe diameter.

**LOW-GWP REFRIGERANT.** A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

**MERV.** Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

**MAXIMUM INCREMENTAL REACTIVITY (MIR).** The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram of O$_3$ g ROC).

**PRODUCT-WEIGHTED MIR (PWMIR).** The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

**PSIG.** Pounds per square inch gauge.

**REACTIVE ORGANIC COMPOUND (ROC).** Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

**SCHRADER ACCESS VALVES.** Access fittings with a valve core installed.

**SHORT RADIUS ELBOW.** Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction with a radius 1.0 times the pipe diameter.

**SUPERMARKET.** For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

**VOC.** A volatile organic compound basically defined as a chemical compound based on carbon chains or rings with vapor pressure greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

**Note:** Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

## SECTION 5.503 FIREPLACES

**5.503.1 FIREPLACES.** Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

**5.503.1.1 Woodstoves.** Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS), emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

## SECTION 5.504 POLLUTANT CONTROL

**5.504.1 TEMPORARY VENTILATION.** The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, flatness on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

**5.504.3 Covering of duct openings and protection of mechanical equipment during construction.** At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other installed air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

**5.504.4 FINISH MATERIAL POLLUTANT CONTROL.** Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

**5.504.4.1 Adhesives, sealants and caulks.** Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for specified products as specified in subsection 2, below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1]

Less Water and Less Exempt Compounds in Grams per Liter

| ARCHITECTURAL APPLICATIONS | CURRENT VOC LIMIT |
|---|---|
| INDOOR CARPET ADHESIVES | 50 |
| CARPET PAD ADHESIVES | 50 |
| OUTDOOR CARPET ADHESIVES | 150 |
| WOOD FLOORING ADHESIVES | 100 |
| RUBBER FLOOR ADHESIVES | 60 |
| SUBFLOOR ADHESIVES | 50 |
| CERAMIC TILE ADHESIVES | 65 |
| VCT & ASPHALT TILE ADHESIVES | 50 |
| DRYWALL & PANEL ADHESIVES | 50 |
| COVE BASE ADHESIVES | 50 |
| MULTIPURPOSE CONSTRUCTION ADHESIVES | 70 |
| STRUCTURAL GLAZING ADHESIVES | 100 |
| SINGLE-PLY ROOF MEMBRANE ADHESIVES | 250 |
| OTHER ADHESIVES NOT SPECIFICALLY LISTED | 50 |
| **SPECIALTY APPLICATIONS** | |
| PVC WELDING | 510 |
| CPVC WELDING | 490 |
| ABS WELDING | 325 |
| PLASTIC CEMENT WELDING | 250 |
| ADHESIVE PRIMER FOR PLASTIC | 550 |
| CONTACT ADHESIVE | 80 |
| SPECIAL PURPOSE CONTACT ADHESIVE | 250 |
| STRUCTURAL WOOD MEMBER ADHESIVE | 140 |
| TOP & TRIM ADHESIVE | 250 |
| **SUBSTRATE SPECIFIC APPLICATIONS** | |
| METAL TO METAL | 30 |
| PLASTIC FOAMS | 50 |
| POROUS MATERIAL (EXCEPT WOOD) | 50 |
| WOOD | 30 |
| FIBERGLASS | 80 |

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

| SEALANTS | CURRENT VOC LIMIT |
|---|---|
| ARCHITECTURAL | 250 |
| MARINE DECK | 760 |
| NONMEMBRANE ROOF | 300 |
| ROADWAY | 250 |
| SINGLE-PLY ROOF MEMBRANE | 450 |
| OTHER | 420 |
| **SEALANT PRIMERS** | |
| ARCHITECTURAL | |
| NONPOROUS | 250 |
| POROUS | 775 |
| MODIFIED BITUMINOUS | 500 |
| MARINE DECK | 760 |
| OTHER | 750 |

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHOD TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

**DISCLAIMER:** THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

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Scale:

Sheet No.: A052

# AIA California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

## NONRESIDENTIAL MANDATORY MEASURES, SHEET 4 (July 2024 Supplement)

**5.504.4.3 Paints and coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

**5.504.4.3.1 Aerosol Paints and coatings.** Aerosol paints and coatings shall meet the PWAIM Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520, and in areas under the jurisdiction of the Bay Area Air Quality Management District, additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

GRAMS OF VOC PER LITER OF COATING, EXCLUDING WATER & EXEMPT COMPOUNDS

| COATING CATEGORY | CURRENT VOC LIMIT |
|---|---|
| FLAT COATINGS | 50 |
| NONFLAT COATINGS | 100 |
| NONFLAT-HIGH GLOSS COATINGS | 150 |
| **SPECIALTY COATINGS** | |
| ALUMINUM ROOF COATINGS | 400 |
| BASEMENT SPECIALTY COATINGS | 400 |
| BITUMINOUS ROOF COATINGS | 50 |
| BITUMINOUS ROOF PRIMERS | 350 |
| BOND BREAKERS | 350 |
| CONCRETE CURING COMPOUNDS | 350 |
| CONCRETE/MASONRY SEALERS | 100 |
| DRIVEWAY SEALERS | 50 |
| DRY FOG COATINGS | 150 |
| FAUX FINISHING COATINGS | 350 |
| FIRE RESISTIVE COATINGS | 350 |
| FLOOR COATINGS | 100 |
| FORM-RELEASE COMPOUNDS | 250 |
| GRAPHIC ARTS COATINGS (SIGN PAINTS) | 500 |
| HIGH-TEMPERATURE COATINGS | 420 |
| INDUSTRIAL MAINTENANCE COATINGS | 250 |
| LOW-SOLIDS COATINGS[2] | 120 |
| MAGNESITE CEMENT COATINGS | 450 |
| MASTIC TEXTURE COATINGS | 100 |
| METALLIC PIGMENTED COATINGS | 500 |
| MULTICOLOR COATINGS | 250 |
| PRETREATMENT WASH PRIMERS | 420 |
| PRIMERS, SEALERS, & UNDERCOATERS | 100 |
| REACTIVE PENETRATING SEALERS | 350 |
| RECYCLED COATINGS | 250 |
| ROOF COATINGS | 50 |
| RUST PREVENTATIVE COATINGS | 250 |
| SHELLACS: | |
| CLEAR | 730 |
| OPAQUE | 550 |
| SPECIALTY PRIMERS, SEALERS & UNDERCOATERS | 100 |
| STAINS | 250 |
| STONE CONSOLIDANTS | 450 |
| SWIMMING POOL COATINGS | 340 |
| TRAFFIC MARKING COATINGS | 100 |
| TUB & TILE REFINISH COATINGS | 420 |
| WATERPROOFING MEMBRANES | 250 |
| WOOD COATINGS | 275 |
| WOOD PRESERVATIVES | 350 |
| ZINC-RICH PRIMERS | 340 |

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS.
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

**5.504.4.3.2 Verification.** Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

**5.504.4.4 Carpet Systems.**
All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

**5.504.4.4.1 Carpet cushion.** All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

**5.504.4.4.2 Carpet adhesive.** All carpet adhesive shall meet the requirements of Table 5.504.4.1.

**5.504.4.5 Composite wood products.** Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

**5.504.4.5.3 Documentation.** Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the American ASNZS 2269 or Eurowish 636 S3 standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

| PRODUCT | CURRENT LIMIT |
|---|---|
| HARDWOOD PLYWOOD VENEER CORE | 0.05 |
| HARDWOOD PLYWOOD COMPOSITE CORE | 0.05 |
| PARTICLE BOARD | 0.09 |
| MEDIUM DENSITY FIBERBOARD | 0.11 |
| THIN MEDIUM DENSITY FIBERBOARD[2] | 0.13 |

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCH (8 MM).

**5.504.4.6 Resilient flooring systems.** Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

**5.504.4.6.1 Verification of compliance.** Documentation shall be provided verifying that resilient flooring materials meet the applicable emission limits.

**5.504.4.7 Thermal insulation.**
Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

**5.504.4.7.1 Verification of compliance.**
Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

**5.504.4.8 Acoustical ceiling and wall panels.**
Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.

**5.504.4.8.1 Verification of compliance.** Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

**5.504.5.3 Filters.** In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

**Exceptions:** Existing mechanical equipment.

**5.504.5.3.1 Labeling.** Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

**5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL.** Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations, or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. Where ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

## SECTION 5.505 INDOOR MOISTURE CONTROL

**5.505.1 MOLD MOISTURE CONTROL.** Buildings shall meet or exceed the provisions of California building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

## SECTION 5.506 INDOOR AIR QUALITY

**5.506.1 OUTSIDE AIR DELIVERY.** For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

**5.506.2 CARBON DIOXIDE (CO2) MONITORING.** For buildings or additions equipped with demand control ventilation, CO2 sensor and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

**5.506.3 Carbon dioxide (CO2) monitoring in classrooms.**
**(DSA-SS)** Each public K-12 school classroom, as listed in Table 120.1-A of the California Energy Code, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:

1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from drafts and operable windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification through a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100ppm.
4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

## SECTION 5.507 ENVIRONMENTAL COMFORT

**5.507.4 ACOUSTICAL CONTROL.** Exterior building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332 using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

**Exception:** Buildings with fire or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

**Exception: [DSA-SS]** For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

**5.507.4.1 Exterior noise transmission, prescriptive method.** Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   **Exceptions:**

   1. Ln or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. Ln or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or Ln noise contour of a freeway or expressway, railroad, industrial source or fixed guideway source as determined by the Noise Element of the General Plan.

**5.507.4.1.1 Noise exposure where noise contours are not readily available.** Buildings exposed to a noise level of 65 dB $L_{eq}$ - 1-hr during any hour of operations shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

**5.507.4.2 Performance Method.** For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

**5.507.4.2.1 Site Features.** Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

**5.507.4.2.2 Documentation of Compliance.** An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

**5.507.4.3 Interior sound transmission.** Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

**Note:** Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf

## SECTION 5.508 OUTDOOR AIR QUALITY

**5.508.1 Ozone depletion and greenhouse gas reductions.** Installation of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

**5.508.1.1 Chlorofluorocarbons (CFCs).** Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

**5.508.1.2 Halons.** Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

**5.508.2 Supermarket refrigerant leak reduction.** New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, rent that utilize either refrigerated display cases, or walk in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

**Exception:** Refrigeration systems containing low-global-warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are ozone-depleting refrigerants that include ammonia, carbon dioxide ($CO_2$), and potentially other refrigerants.

**5.508.2.1 Refrigerant piping.** Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below:

**5.508.2.1.1 Threaded pipe.** Threaded connections are permitted at the compressor rack.

**5.508.2.1.2 Copper pipe.** Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

**5.508.2.1.2.1 Anchorage.** One-fourth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 6 mils.

**5.508.2.1.3 Flared tubing connections.** Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

**Exception:** Single-flared tubing connections may be used with a retaining seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

**5.508.2.1.4 Elbows.** Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

**5.508.2.2 Valves.** Valves Valves and fittings shall comply with the California Mechanical Code and as follows.

**5.508.2.2.1 Pressure relief valves.** For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

**5.508.2.2.1.1 Pressure detection.** A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

**5.508.2.2.2 Access valves.** Only Schrader access valves with a brass or steel body are permitted for use.

**5.508.2.2.2.1 Valve caps.** For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

**5.508.2.2.2.2 Seal caps.** If designed for it, the cap shall have a neoprene O-ring in place.

**5.508.2.2.2.2.1 Chain tethers.** Chain tethers to fix cap to the stem are required for valves designed to have seal caps.

**Exception:** Valves with seal caps that are not removed from the valve during stem operation.

**5.508.2.3 Refrigerated service cases.** Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel, or be coated to prevent corrosion from these substances.

**5.508.2.3.1 Coil coating.** Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

**5.508.2.4 Refrigerant receivers.** Refrigerant receivers with capacities greater than 250 pounds shall be fitted with a device the indicates the level of refrigerant in the receiver.

**5.508.2.5 Pressure testing.** The system shall be pressure tested during installation prior to evacuation and charging.

**5.508.2.5.1 Minimum pressure.** The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

**5.508.2.5.2 Leaks.** Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

**5.508.2.5.3 Allowable pressure change.** The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

**5.508.2.6 Evacuation.** The system shall be evacuated after pressure testing and prior to charging.

**5.508.2.6.1 First vacuum.** Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

**5.508.2.6.2 Second vacuum.** Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

**5.508.2.6.3 Third vacuum.** Pull a third vacuum down to a minimum of 500 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

## CHAPTER 7
## INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

### 702 QUALIFICATIONS

**702.1 INSTALLER TRAINING.** HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

**702.2 SPECIAL INSPECTION [HCD].** When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

**Notes:**

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

**[BSC-CG]** When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

**Note:** Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

### 703 VERIFICATIONS

**703.1 DOCUMENTATION.** Documentation used to show compliance with this code shall include but is not limited to construction documents, plans, specifications, builtlist or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation of special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.



GOLETA LIBRARY

CITY OF GOLETA

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Goleta, CA 93117

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516 N Nopalitos Blvd.
Manhattan Beach, CA 90266
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www.JMADstudio.com

Structural: kpff

Civil: [illegible] STUDIO

Landscape: INTERFACE ENGINEERING

Acoustical: JENSEN HUGHES

Issued For:
No. Description Date
60% CONSTRUCTION DOCUMENT 07 MAR 2025

LICENSED ARCHITECT JEFFREY M. [illegible] No. C35356 STATE OF CALIFORNIA

Sheet Name: CAL GREEN CODE DOCUMENTATION

Project No.: 24.05
Drawn By: Author
Checked By: Checker

Sheet No.: A053

## GENERAL NOTES:

1. WORK SHOWN HEREON SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," LATEST EDITION AND SUPPLEMENTS, THE CALIFORNIA BUILDING CODE (EXCAVATION AND GRADING), AND CITY OF **GOLETA** LOCAL ORDINANCES AS APPLICABLE.
2. EXISTING TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM A SURVEY DATED AUGUST 6, 2024 BY KPFF.
3. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
4. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN CONDITIONS FOR GRADING, DRAINAGE AND UNDERGROUND FACILITIES INCLUDING LOCATION AND ELEVATION OF EXISTING UNDERGROUND FACILITIES AT CROSSINGS WITH PROPOSED UNDERGROUND FACILITIES, IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
5. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
6. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
7. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
8. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
9. IF AT ANY TIME DURING GRADING OPERATIONS, ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
10. THE PROPOSED GRADE IS THE FINAL GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL SUBTRACT THE THICKNESS OF THE PAVED SECTION AND/OR LANDSCAPE TOPSOIL SECTION TO ARRIVE AT THE ROUGH GRADE ELEVATION.
11. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS.
12. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
13. ALL FILL SOILS OR SOILS DISTURBED OR OVEREXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED PER THE REQUIREMENTS OF THE SOILS REPORT BUT NOT LESS THAN 90% MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D-1557.
14. THE CONTRACTOR SHALL OBTAIN AN O.S.H.A. PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE FEET OR DEEPER.
15. DIMENSIONS TO PIPELINES ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
16. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE, UNLESS OTHERWISE NOTED.
17. THRUST BLOCKS SHALL BE INSTALLED AT WATERLINE HORIZONTAL AND VERTICAL BENDS, TEES, CAPPED ENDS AND REDUCERS ACCORDING TO THE DETAILS PROVIDED ON THESE PLANS.
18. CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR. CONSTRUCTION STAKING SURVEYOR SHALL BE RESPONSIBLE FOR COORDINATION OF THESE PLANS WITH SOURCE DRAWINGS PREPARED BY ARCHITECT, LANDSCAPE ARCHITECT, STRUCTURAL ENGINEER, MEP CONSULTANT AND ANY OTHER DISCIPLINE PRIOR TO START OF STAKING AND CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED.
19. THE CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION TO MATCH EXISTING, INCLUDING PERMANENT TRENCH RESURFACING.
20. CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT (800-227-2600) PRIOR TO EXCAVATION.
21. ALL DIMENSIONS ARE IN FEET OR DECIMALS THEREOF.
22. ALL CURB DIMENSIONS AND RADII ARE TO PAVEMENT FACE OF CURB.
23. CONTRACTOR TO BE AWARE OF ALL OVERHEAD LINES AT ALL TIMES, SO AS NOT TO DISTURB THEM.
24. WATER SHALL BE PROVIDED ONSITE AND USED TO CONTROL DUST DURING CONSTRUCTION OPERATIONS.
25. CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS FROM THE CITY OF **GOLETA** FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
26. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE DURING INTERIM CONDITIONS OF CONSTRUCTION.
27. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INCLUDING NPDES, FROM THE APPROPRIATE JURISDICTIONAL AGENCIES FOR DISCHARGE OF GROUNDWATER THAT MAY BE NECESSARY TO ACCOMPLISH EXCAVATIONS SHOWN ON THESE PLANS.

1-800-227-2600
**CALL USA/SC FOR UNDERGROUND LOCATING 48 HOURS BEFORE YOU DIG!!**

**IMPORTANT NOTICE**
SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-227-2600 TWO WORKING DAYS BEFORE YOU DIG.

## LEGEND:

**GENERAL**
- CIVIL LIMITS OF WORK
- SHEET MATCH LINE

**ANNOTATION**
- 100.00 XX — SURFACE ELEVATION/UTILITY ELEVATION
- (100.00)XX — EXISTING SURFACE ELEVATION/UTILITY ELEVATION
- XX — CONSTRUCTION NOTE
- 2.0% — FLOW (DIRECTION AND GRADE)
- 2:1 — SLOPE (DIRECTION AND RUN:RISE)
- XX — HORIZONTAL CONTROL POINT LABEL
- CX — CURVE DATA LABEL
- FF=100.00 — PAD/FINISHED FLOOR ELEVATION

**SITE**
- CURB/BACK OF CURB/GUTTER
- RETAINING WALL/SITE WALL
- PROPERTY LINE/RIGHT OF WAY
- CENTER LINE
- FENCE
- TO BE DEMOLISHED

**EROSION CONTROL**
- GRAVEL BAGS
- FIBER ROLL
- PROPOSED BUILDING EXCAVATION OUTLINE
- EXISTING DRAINAGE DIRECTION OF FLOW
- PROTECT TREE IN PLACE

**GRADING**
- 100 — PROPOSED MAJOR CONTOUR
- 102 — PROPOSED MINOR CONTOUR
- FLOW LINE
- GB — GRADE BREAK LINE
- R — RIDGE LINE
- EARTHEN SWALE
- SAWCUT
- LIMITS OF GRADING
- GRADING BENCH
- TOP / TOE — GRADED SLOPE (HORIZONTAL:VERTICAL)

**UTILITY**
- SS — SANITARY SEWER
- W — WATER
- DW — DOMESTIC WATER
- FW — FIRE WATER
- SD — STORM DRAIN
- G — GAS
- E — ELECTRIC
- T — TELEPHONE
- PERFORATED PIPE
- POINT OF CONNECTION
- COORDINATION POINT
- CAP OR PLUG
- UTILITY MANHOLE
- UTILITY CLEANOUT
- STORM DRAIN INLET
- AREA DRAIN/PLANTER DRAIN
- TRENCH DRAIN
- FIRE HYDRANT
- THRUST BLOCK
- FIRE DEPARTMENT CONNECTION (FDC)
- POST INDICATOR VALVE (PIV)
- WATER VALVE
- BACKFLOW ASSEMBLY
- UTILITY METER VAULT

## ABBREVIATIONS:

| | | | |
|---|---|---|---|
| AC | ASPHALTIC CONCRETE | MH | MANHOLE |
| BCR | BEGIN CURVE RETURN | (N) | NORTH |
| BW | BACK OF WALK | NTS | NOT TO SCALE |
| BLDG | BUILDING | PA | PLANTER AREA |
| BM | BENCH MARK | POC | POINT OF CONNECTION |
| BOS | BOTTOM OF STAIRS | PIV | POST INDICATOR VALVE |
| BMP | BEST MANAGEMENT PRACTICES | PCC | POINT OF COMPOUND CURVE |
| CB | CATCH BASIN | PRC | POINT OF REVERSE CURVE |
| CI | CAST IRON | PRV | PRESSURE REDUCING VALVE |
| CL | CENTER LINE | PVC | POLYVINYL CHLORIDE |
| CMU | CONCRETE MASONRY UNIT | R | RADIUS |
| CO | CLEANOUT | RCRP | RECTANGULAR CAST IRON PIPE |
| CONC | PORTLAND CEMENT CONCRETE | RD | ROOF DRAIN |
| CF | CURB FACE | RW | RIGHT-OF-WAY |
| DW | DOMESTIC WATER | (S) | SOUTH |
| (E) | EAST | S= | SLOPE EQUALS |
| ECR | END CURVE RETURN | SD | STORM DRAIN |
| EG | EDGE OF GUTTER | SSMH | SANITARY SEWER MANHOLE |
| EL. OR ELEV | ELEVATION | SS | SANITARY SEWER |
| ELEC | ELECTRIC, ELECTRICAL | STD | STANDARD |
| EX. OR EXIST. | EXISTING | SDMH | STORM DRAIN MANHOLE |
| FDC | FIRE DEPARTMENT CONNECTION | TC | TOP OF CURB |
| FF | FINISHED FLOOR | TEL | TELEPHONE |
| FG | FINISHED GRADE (LANDSCAPE) | TG | TOP OF GRATE |
| FS | FINISHED SURFACE (HARDSCAPE) | TOS | TOP OF STAIRS |
| FH | FIRE HYDRANT | TW | TOP OF WALL |
| FL | FLOW LINE | TS | TRAFFIC SIGNAL |
| FT | FOOT OR FEET | TSB | TRAFFIC SIGNAL BOX |
| FU | FIXTURE UNITS | TYP | TYPICAL |
| FW | FIRE WATER | TV | TELEVISION |
| GPM | GALLONS PER MINUTE | VIF | VERIFY IN FIELD |
| GV | GATE VALVE | VLT | VAULT |
| HDPE | HIGH DENSITY POLYETHYLENE | VCP | VITRIFIED CLAY PIPE |
| HP | HIGH POINT | (W) | WEST |
| INV. | INVERT | W | WATER |
| LP | LOW POINT | WM | WATER METER |
| MAX. | MAXIMUM | WV | WATER VALVE |
| MIN. | MINIMUM | | |

## PATTERN LEGEND:

- CONCRETE PAVING (REFER TO SHEET CX.XX FOR DETAILS)
- ASPHALT (REFER TO SHEET CX.XX FOR DETAILS)
- GRAVEL (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
- PLANTER AREA/LANDSCAPE (REFER TO LANDSCAPING PLANS FOR DETAILS)
- WATER FEATURE (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
- GREEN ROOF (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
- SAND (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
- PROPOSED BUILDING (REFER TO ARCHITECTURAL PLANS FOR DETAILS)

## PROJECT DIRECTORY:


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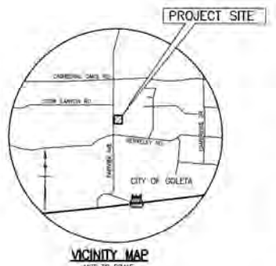
CONTACT: HAOYAN HUANG

**SURVEYOR:**
KPFF CONSULTING ENGINEERS
700 SOUTH FLOWER STREET
SUITE 2100
LOS ANGELES, CA 90017
TEL: 213.418.0201
FAX: 213.266.5294
CONTACT: DENISSE BERMUDEZ


## SHEET INDEX:






**VICINITY MAP**
NOT TO SCALE

GOLETA LIBRARY
CITY OF GOLETA
500 N Fairview Ave
Goleta, CA 93117

Architect: JM | A+D
516 ½ Sepulveda Blvd.
Manhattan Beach, CA 90266
(310) 684-3550
www.JMADstudio.com

Consultant: kpff

Consultant: UPLA STUDIO

Consultant: INTERFACE ENGINEERING

Consultant: JENSEN HUGHES

Issued For:
| No | Description | Date |
|---|---|---|
| | ISSUED FOR PERMIT | 20 MAR 2025 |

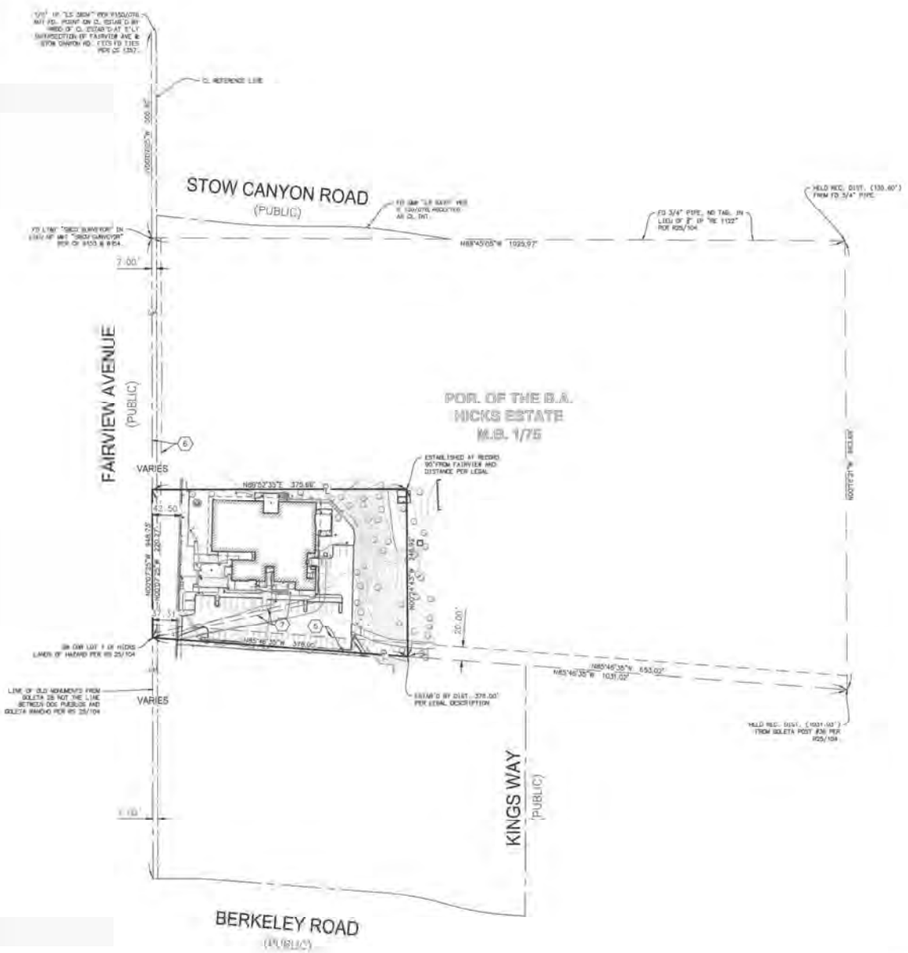
Seal & Signature: REGISTERED PROFESSIONAL ENGINEER, JEFFREY P. MILLER, No. C59694, Exp. 12/31/26, CIVIL, STATE OF CALIFORNIA

Sheet Name: TITLE SHEET

Project No.: 24129.00
Drawn By: DM
Checked By: KC
Scale:

Sheet No.: C0.01

# DESIGN SURVEY




## LEGAL DESCRIPTION

(PER FIDELITY NATIONAL TITLE COMPANY FILE NO. FSBA-425240014-SA DATED FEBRUARY 23, 2024 AT 07:30 AM)

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF GOLETA, COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS

THOSE PORTIONS OF LOTS 1 AND 3 OF THE B. A. HICKS ESTATE LYING WITHIN RANCHO LA GOLETA, IN THE CITY OF GOLETA, COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, AS SHOWN ON MAP FILED IN BOOK 1, PAGE 75 OF MAPS & SURVEYS BEING DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWESTERLY CORNER OF LOT 1 OF SAID HICKS ESTATE, ALSO BEING THE SOUTHWESTERLY CORNER OF THE TRACT OF LAND CONVEYED IN THE DEED TO THEODORE F. HARMS AND JOSEPHINE B. HARMS, HUSBAND AND WIFE, AS JOINT TENANTS, RECORDED JANUARY 13, 1955 IN BOOK 1291, PAGE 527 OF OFFICIAL RECORDS;

THENCE 1ST, ALONG THE SOUTHERLY LINE OF SAID HARMS TRACT OF LAND, SOUTH 85°58'08" EAST, 378.00 FEET TO A POINT;

THENCE 2ND, NORTH 0°04'33" WEST, 245.00 FEET TO A POINT;

THENCE 3RD, NORTH 89°43'08" WEST, 375.66 FEET TO A POINT IN THE WESTERLY LINE OF SAID HARMS TRACT OF LAND;

THENCE 4TH, AT RIGHT ANGLES AND ALONG THE WESTERLY LINE, SOUTH 0°18'52" WEST, 220.27 FEET TO THE TRUE POINT OF BEGINNING.

APN: 069-090-056

## EXCEPTIONS

(PER FIDELITY NATIONAL TITLE COMPANY FILE NO. FSBA-425240014-SA DATED FEBRUARY 23, 2024 AT 07:30 AM)

5. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT.

   GRANTED TO: COUNTY OF SANTA BARBARA AND SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
   PURPOSE: STORM DRAIN
   RECORDING DATE: FEBRUARY 15, 1968
   RECORDING NO.: 5972, BOOK 2222, PAGE 252, OF OFFICIAL RECORDS
   AFFECTS: SOUTHERLY 20 FEET

6. AN IRREVOCABLE OFFER TO DEDICATE AN EASEMENT OVER A PORTION OF SAID LAND FOR
   PURPOSE(S): STREET WIDENING
   RECORDING DATE: AUGUST 12, 1969
   RECORDING NO.: 22971, BOOK 2280, PAGE 1296, OF OFFICIAL RECORDS
   AFFECTS: WESTERLY PORTION WITHIN NORTH FAIRVIEW AVENUE

   SAID OFFER WAS ACCEPTED FOR PUBLIC USE BY A RESOLUTION NO. 69-427 OF THE SANTA BARBARA COUNTY BOARD OF SUPERVISORS IN DOCUMENT MENTIONED ABOVE.

7. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:

   GRANTED TO: SOUTHERN CALIFORNIA EDISON COMPANY
   PURPOSE: PUBLIC UTILITIES
   RECORDING DATE: DECEMBER 10, 1971
   RECORDING NO.: 40217, BOOK 2375, PAGE 1449, OF OFFICIAL RECORDS
   AFFECTS: A STRIP OF LAND 6 FEET IN WIDTH

*REMAINING PRELIMINARY TITLE REPORT ITEMS NOT SHOWN ABOVE ARE NOT PLOTTABLE OR NOT A SURVEY MATTER.

## COMMENTS

| | |
|---|---|
| DATE OF SURVEY | JULY 15-19, 2024 |
| SITE ADDRESS | 500 NORTH FAIRVIEW AVENUE, GOLETA, CA 93117 |
| APN NO. | 069-090-056 |
| BOUNDARY LINES | WERE ESTABLISHED FROM THE RECOVERED CITY, COUNTY AND/OR PRIVATE ENGINEER MONUMENTS WHOSE CHARACTER AND SOURCE ARE SO NOTED ON THE SURVEY. |
| BASIS OF BEARINGS | THE BEARING OF N00°07'25"W ALONG THE CENTERLINE OF FAIRVIEW AVENUE AS SHOWN ON TRACT NO. 13,526, AS RECORDED IN MAP BOOK 150, PAGES 77 & 78, WAS TAKEN AS THE BASIS OF BEARINGS FOR THIS SURVEY. |
| BENCHMARK | ELEVATIONS ON THIS SURVEY ARE BASED ON AN ASSUMED ELEVATION OF 100.00 FEET AT PT. 200 FD TIN SHOWN HEREON. |
| (#) | INDICATES PRELIMINARY TITLE REPORT EXCEPTION NUMBER PLOTTED HEREON. |
| LAND AREA | 88,266 SQ. FT. OR 2.026 ACRES, MORE OR LESS. |
| UTILITY NOTE | ALL OBSERVED UTILITIES SHOWN ON THIS MAP WERE OBTAINED BY CONVENTIONAL MEANS. THEY ARE FOR INFORMATION ONLY. ALL UNDERGROUND UTILITIES SHOWN HEREIN/HERON WERE OBTAINED FROM UTILITY MARKINGS FROM ELECTROMAGNETIC DETECTION. ALL SAID UNDERGROUND UTILITIES ARE FOR INFORMATION ONLY, HAVING BEEN OBTAINED FROM OTHER SOURCES, NOT CONNECTED WITH THIS COMPANY OR PROFESSIONAL LAND SURVEYOR. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID INFORMATION AND ANY USER OF THIS INFORMATION SHOULD CONTACT THE UTILITY OR GOVERNMENT AGENCY DIRECTLY IN PLANNING, CONSTRUCTION, OR ANY SUCH MATTER RELATIVE TO THE UTILITIES. |
| FLOOD INSURANCE RATE MAP | ZONE "X" AREAS DETERMINED TO BE WITHIN THE AREA OF MINIMAL FLOOD HAZARD PER FLOOD INSURANCE RATE MAP (FIRM) MAP PANEL MAP NO. 06083C1384G, EFFECTIVE 12/04/2012. |
| ZONING | OTHER DISTRICTS – PQ PUBLIC AND QUASI-PUBLIC; ACCESSED THROUGH THE CITY OF GOLETA WEBSITE ON 07/29/2024. |


PREPARED UNDER THE DIRECTION OF:

**Preliminary**
09/05/2024 9:50:40 AM

CHRISTOPHER JONES, PLS 8193
chris.jones@kpff.com

LICENSED LAND SURVEYOR CHRISTOPHER JONES No. 8193 STATE OF CALIFORNIA

DIG ALERT

N.T.S.

| NO. | DATE | REVISIONS |
|---|---|---|
| 6 | | |
| 5 | | |
| 4 | | |
| 3 | | |
| 2 | | |
| 1 | | |

GOLETA VALLEY LIBRARY

PREPARED FOR:
JM|A+D STUDIO
MR. JEFFREY A. MILLER, AIA
448 ROSECRANS AVENUE, APARTMENT B
MANHATTAN BEACH, CA 90266

kpff
[illegible]

SHEET 1 OF 1

**FOR REFERENCE ONLY**

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CITY OF GOLETA

500 N Fairview Ave
Goleta, CA 93117

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JM | A+D
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Manhattan Beach, CA 90266
(310) 464-0530
www.JMAArchitects.com

Consultant:
kpff

Consultant:
UPLA STUDIO

Consultant:
INTERFACE ENGINEERING

Consultant:
JENSEN HUGHES

| No. | Description | Date |
|---|---|---|
| | ISSUED FOR PERMIT | 20 MAR 2025 |

Seal & Signature:

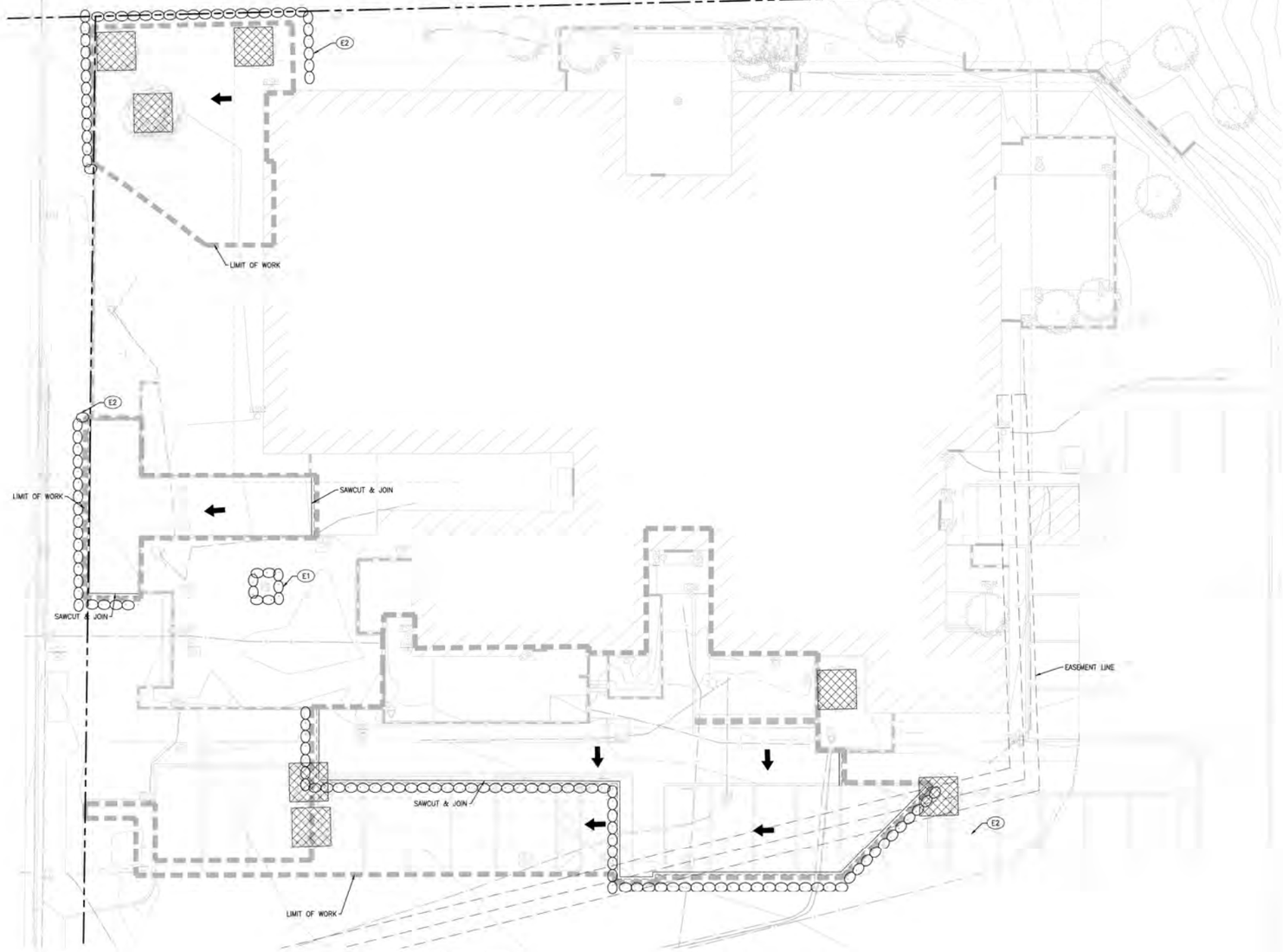
Sheet Name:
SURVEY (FOR REFERENCE ONLY)

Project No.: 2400XX
Drawn By: DM
Checked By: XX
Scale: AS NOTED

Sheet No.: C1.0

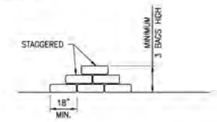


P:\2024\24010004 Goleta Library\5 CAD\Sheets\24XX04 C-1 XYWA.dwg | Mon 11, 2025 - 11:05am




| SLOPE INCLINATION | MAXIMUM SHEET FLOW LENGTH (FOR SLOPE INTERRUPTION) |
|---|---|
| < 4:1 (H:V) | *20' |
| 4:1–2:1 (H:V) | *15' |
| > 2:1 (H:V) | *10' |

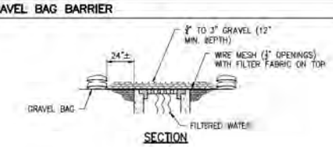
* FIRST ROW NEAR SLOPE TOE



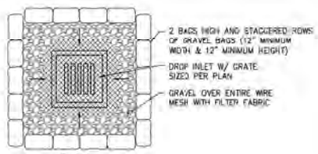

**NOTES:**

1. BAG MATERIAL: BAGS SHOULD BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE FABRIC, MINIMUM UNIT WEIGHT OF 4 OUNCES/YD², MULLEN BURST STRENGTH EXCEEDING 300 LB/IN² IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D3786, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D4355
2. BAG SIZE: EACH GRAVEL-FILLED BAG SHOULD HAVE A LENGTH OF 18 IN., WIDTH OF 12 IN., THICKNESS OF 3 IN., AND MASS OF APPROXIMATELY 33 LBS. BAG DIMENSIONS ARE NOMINAL, AND MAY VARY BASED ON LOCALLY AVAILABLE MATERIALS.
3. FILL MATERIAL: FILL MATERIAL SHALL BE 0.5 TO 1.0 INCH CRUSHED ROCK, CLEAN AND FREE OF CLAY, ORGANIC MATTER, AND OTHER DELETERIOUS MATERIAL, OR OTHER SUITABLE OPEN-GRADED, NON-COHESIVE, POROUS GRAVEL.
4. TURN THE ENDS OF GRAVEL BAG BARRIER UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND BARRIER.
5. USE PYRAMID APPROACH WHEN STACKING BAGS.

**2 GRAVEL BAG BARRIER** N.T.S.




SECTION




PLAN

**NOTES:**

1. PLACE WIRE MESH OVER AND 1' (MINIMUM) BEYOND THE INLET STRUCTURE. (MESH OPENINGS NOT TO EXCEED ½" x ½" WIRE)
2. PLACE FILTER FABRIC OVER WIRE MESH.
3. PLACE ¾" TO 3" GRAVEL OVER THE WIRE MESH WITH FILTER FABRIC (12" MINIMUM DEPTH OVER THE ENTIRE INLET OPENING).
4. BAG MATERIAL: BAGS SHOULD BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE FABRIC, MINIMUM UNIT WEIGHT OF 4 OUNCES/YD², MULLEN BURST STRENGTH EXCEEDING 300 LB/IN² IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D3786, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D4355.
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7. USE PYRAMID APPROACH WHEN STACKING BAGS.
8. LEAVE GAP OF ONE BAG ON TOP ROW TO SERVE AS SPILLWAY.

**1 STORM DRAIN INLET PROTECTION** N.T.S.

**BMP NOTES:**

THE FOLLOWING BMPS AS OUTLINED IN, BUT NOT LIMITED TO, CALIFORNIA STORMWATER ASSOCIATION (CASQA) STORMWATER BEST MANAGEMENT PRACTICE (BMP) HANDBOOK, AUGUST 2023, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTORS):

EROSION CONTROL

EC1–SCHEDULING
EC2–PRESERVATION OF EXISTING VEGETATION
EC3–HYDRAULIC MULCH
EC4–HYDROSEEDING
EC5–SOIL BINDERS
EC6–STRAW MULCH
EC7–GEOTEXTILES AND MATS
EC8–WOOD MULCHING
EC9–EARTH DIKES AND DRAINAGE SWALES
EC10–VELOCITY DISSIPATION DEVICES
EC11–SLOPE DRAINS
EC12–STREAMBANK STABILIZATION
EC13–RESERVED
EC14–COMPOST BLANKETS
EC15–SOIL PREPARATION/ROUGHENING
EC16–NON-VEGETATIVE STABILIZATION

TEMPORARY SEDIMENT CONTROL

SE1–SILT FENCE
SE2–SEDIMENT BASIN
SE3–SEDIMENT TRAP
SE4–CHECK DAM
SE5–FIBER ROLLS
SE6–GRAVEL BAG BERM
SE7–STREET SWEEPING AND VACUUMING
SE8–SANDBAG BARRIER
SE9–STRAW BALE BARRIER
SE10–STORM DRAIN INLET PROTECTION
SE11–ACTIVE TREATMENT SYSTEMS
SE12–MANUFACTURED LINEAR SEDIMENT CONTROLS
SE13–COMPOST SOCKS AND BERMS
SE14–BIOFILTER BAGS

EQUIPMENT TRACKING CONTROL

TC1–STABILIZED CONSTRUCTION ENTRANCE/EXIT
TC2–STABILIZED CONSTRUCTION ROADWAY
TC3–ENTRANCE/OUTLET TIRE WASH

WIND EROSION CONTROL

WE1–WIND EROSION CONTROL

NON-STORMWATER MANAGEMENT

NS1–WATER CONSERVATION PRACTICES
NS2–DEWATERING OPERATIONS
NS3–PAVING AND GRINDING OPERATIONS
NS4–TEMPORARY STREAM CROSSING
NS5–CLEAR WATER DIVERSION
NS6–ILLICIT CONNECTION/DISCHARGE
NS7–POTABLE WATER/IRRIGATION
NS8–VEHICLE AND EQUIPMENT CLEANING
NS9–VEHICLE AND EQUIPMENT FUELING
NS10–VEHICLE AND EQUIPMENT MAINTENANCE
NS11–PILE DRIVING OPERATIONS
NS12–CONCRETE CURING
NS13–CONCRETE FINISHING
NS14–MATERIAL OVER WATER
NS15–DEMOLITION ADJACENT TO WATER
NS16–TEMPORARY BATCH PLANTS

WASTE MANAGEMENT & MATERIALS POLLUTION CONTROL

WM1–MATERIAL DELIVERY AND STORAGE
WM2–MATERIAL USE
WM3–STOCKPILE MANAGEMENT
WM4–SPILL PREVENTION AND CONTROL
WM5–SOLID WASTE MANAGEMENT
WM6–HAZARDOUS WASTE MANAGEMENT
WM7–CONTAMINATED SOIL MANAGEMENT
WM8–CONCRETE WASTE MANAGEMENT
WM9–SANITARY/SEPTIC WASTE MANAGEMENT
WM10–LIQUID WASTE MANAGEMENT

**EROSION CONTROL NOTES:**

1. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES TO MEET "AS GRADED" CONDITIONS.
2. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR.
3. WHEN THE INSPECTOR SO DIRECTS, A 12-INCH BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS.
4. STORM AND SEWER DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH SANDBAGS.
5. EXCEPT WHEN THE INSPECTOR DIRECTS OTHERWISE, OR WHEN ACTIVE CONSTRUCTION PREVENTS THE DEVICES FROM BEING IN PLACE, ALL DEVICES SHOWN SHALL BE IN PLACE AND SHALL BE MAINTAINED AT ALL TIMES.
6. SANDBAGS SHALL BE STOCKPILED ON SITE, READY TO BE PLACED IN POSITION WHEN RAIN IS FORECAST, OR WHEN THE INSPECTOR SO DIRECTS.
7. A "STANDBY EMERGENCY CREW" SHALL BE ALERTED BY THE PERMITTEE OR THE CONTRACTOR TO PERFORM EMERGENCY WORK DURING RAINSTORMS. THE PARTY TO BE CONTACTED IS:
   NAME: _____ (TO BE FILLED IN BY CONTRACTOR)
   PHONE NUMBER: _____

**DUST CONTROL NOTES:**

1. DUST SHALL BE CONTROLLED BY WATERING AND/OR APPLYING A DUST PALLIATIVE. THE DUST PALLIATIVE SHALL BE APPLIED IN THE AMOUNT AT THE LOCATIONS AS DIRECTED BY THE ENGINEER.
2. WATER FOR DUST CONTROL SHALL BE APPLIED BY MEANS OF PRESSURE TYPE DISTRIBUTORS OR PIPE LINES EQUIPPED WITH A SPRAY SYSTEM OR HOSES WITH NOZZLES THAT WILL ENSURE A UNIFORM APPLICATION OF WATER.
3. UNLESS WATER IS APPLIED BY MEANS OF PIPE LINES, AT LEAST ONE MOBILE UNIT WITH A MINIMUM CAPACITY OF 100 GALLONS SHALL BE AVAILABLE FOR APPLYING WATER.
4. ALL SOIL MATERIALS OR DEBRIS TRUCKED FROM THE SITE SHALL BE COVERED AND SPRINKLED PRIOR TO ENTERING PUBLIC STREETS.
5. PROVIDE FOR WET SUPPRESSION OR CHEMICAL STABILIZING OF EXPOSED SOILS.
6. PROVIDE FOR RAPID CLEAN-UP OF SEDIMENTS DEPOSITED ON THE PAVED ROADS.
7. LIMIT THE AMOUNT OF AREAS DISTURBED BY CLEARING & EARTH MOVING OPERATIONS BY SCHEDULING THESE ACTIVITIES IN PHASES.

**EROSION CONTROL NOTES:**

(E1) PROVIDE INLET PROTECTION PER DETAIL 1, HEREON.
(E2) PLACE GRAVEL BAGS TRIPLE ROW PER DETAIL 2, HEREON.

**LEGEND**

- LIMIT LINE OF EROSION CONTROL
- PROPERTY LINE
- GRAVEL BAGS
- FIBER ROLL
- DIRECTION OF FLOW
- PROTECT TREE IN PLACE

N

0 5' 10'
SCALE: 1"=10'

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kpff

UPLA

INTERFACE ENGINEERING

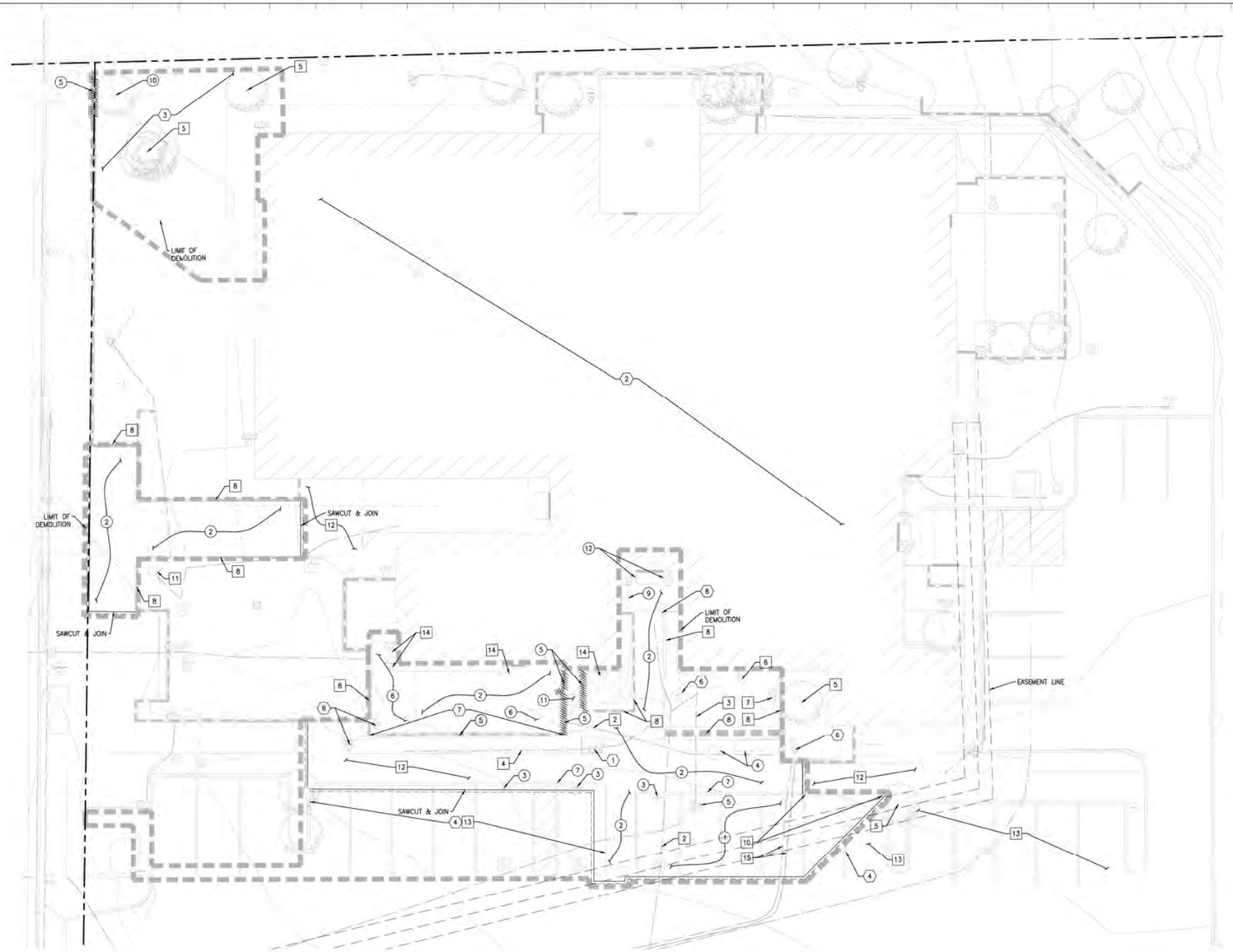
JENSEN HUGHES


| No. | Description | Date |
|---|---|---|
| | ISSUED FOR PERMIT | 20 MAR 2025 |


REGISTERED PROFESSIONAL ENGINEER
Alfred P. Qin
No. C59884
Exp. 12/31/26
CIVIL
STATE OF CALIFORNIA


EROSION CONTROL PLAN

Project No.: 2305004
Drawn By: CM
Checked By: KC
Scale:




## GENERAL DEMOLITION NOTES:

1. CONTRACTOR TO CLEAR PROJECT SITE AREA WITHIN THE CONFINES OF THE DEMOLITION LIMIT LINE. THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL EXISTING STRUCTURES, PLANTERS, TREES, AND ALL OTHER SITE FEATURES, UNLESS OTHERWISE NOTED ON THE PLAN.
2. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS AND SHALL PAY ALL FEES NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
5. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING ABOVE AND UNDERGROUND UTILITIES. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SHOWN FOR GENERAL INFORMATION ONLY.
6. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
7. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS AND STREETS.
8. DUST CONTROL SHALL BE IMPLEMENTED DURING DEMOLITION.
9. DEMOLITION IS LIMITED TO WITHIN DEMOLITION LIMIT LINE UNLESS NOTED OTHERWISE.
10. THE CONTRACTOR SHALL VERIFY THE LOCATION AND QUANTITY OF EXISTING SURFACES, STRUCTURES AND SHALL BE SOLELY RESPONSIBLE FOR ANY UNIDENTIFIED UTILITIES, IMPROVEMENTS, TREES, ETC. TO BE DEMOLISHED AND REMOVED WITHIN THE DEMOLITION LIMIT LINE, INCLUDING APPURTENANT FOUNDATIONS OR SUPPORTS.
11. DEMOLITION CALLOUTS IN THIS SECTION ARE REPRESENTATIVE OF WHAT IS TO BE DONE, NOT AN ITEMIZED ACCOUNTING FOR EACH PIPE, CATCH BASIN, MANHOLE, VAULT, ETC. THAT IS TO BE DEMOLISHED, REMOVED AND DISPOSED OF.

## DEMOLITION NOTES:

**PROTECT-IN-PLACE**

1. ASPHALT
2. ELECTRICAL LINE
3. SEWER LINE
4. WATER LINE
5. TREE
6. WATER VALVE
7. IRRIGATION VALVE
8. WALL
9. WATER METER
10. CURB
11. LIGHTPOLE
12. CONCRETE PAVING
13. ASPHALT PAVING
14. UTILITY RISER
15. COMMUNICATION/DATA LINE

**DEMOLISH & REMOVE**

1. ASPHALT PAVING
2. CONCRETE PAVING
3. SIGN
4. BIKE RACK
5. WALL
6. LANDSCAPE
7. CURB
8. CONCRETE BIKE RA
9. BENCH
10. TREE
11. STEPS
12. DOOR STOPS

**COORDINATION ITEMS**

1. BOOK DROP BOX TO BE RELOCATED.
2. REFER TO ARCHITECTURAL PLANS FOR PARTIAL DEMOLITION OF BUILDING.
3. PROTECT EXISTING LANDSCAPING EXCEPT AS REQUIRED TO CONSTRUCT NEW RAMP.
4. REMOVE STRIPING.
5. ADJUST CLEANOUT TO GRADE
6. REFER TO LANDSCAPE PLANS FOR DEMOLITION AND PROTECTION OF SITE LIGHTING.
7. PARTIAL DEMOLITION PER LANDSCAPE PLANS.
8. RELOCATE ADA PUSH BUTTON PER ARCHITECTURAL PLANS.

## LEGEND:

- LIMIT OF DEMOLITION
- PROPERTY LINE
- DEMOLITION LINE
- SAWCUT AND JOIN

**NOTE:**
PROTECT IN PLACE ALL UTILITIES UNLESS OTHERWISE NOTED.

SCALE: 1"=10'

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Goleta, CA 93117

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kpff

INTERFACE ENGINEERING

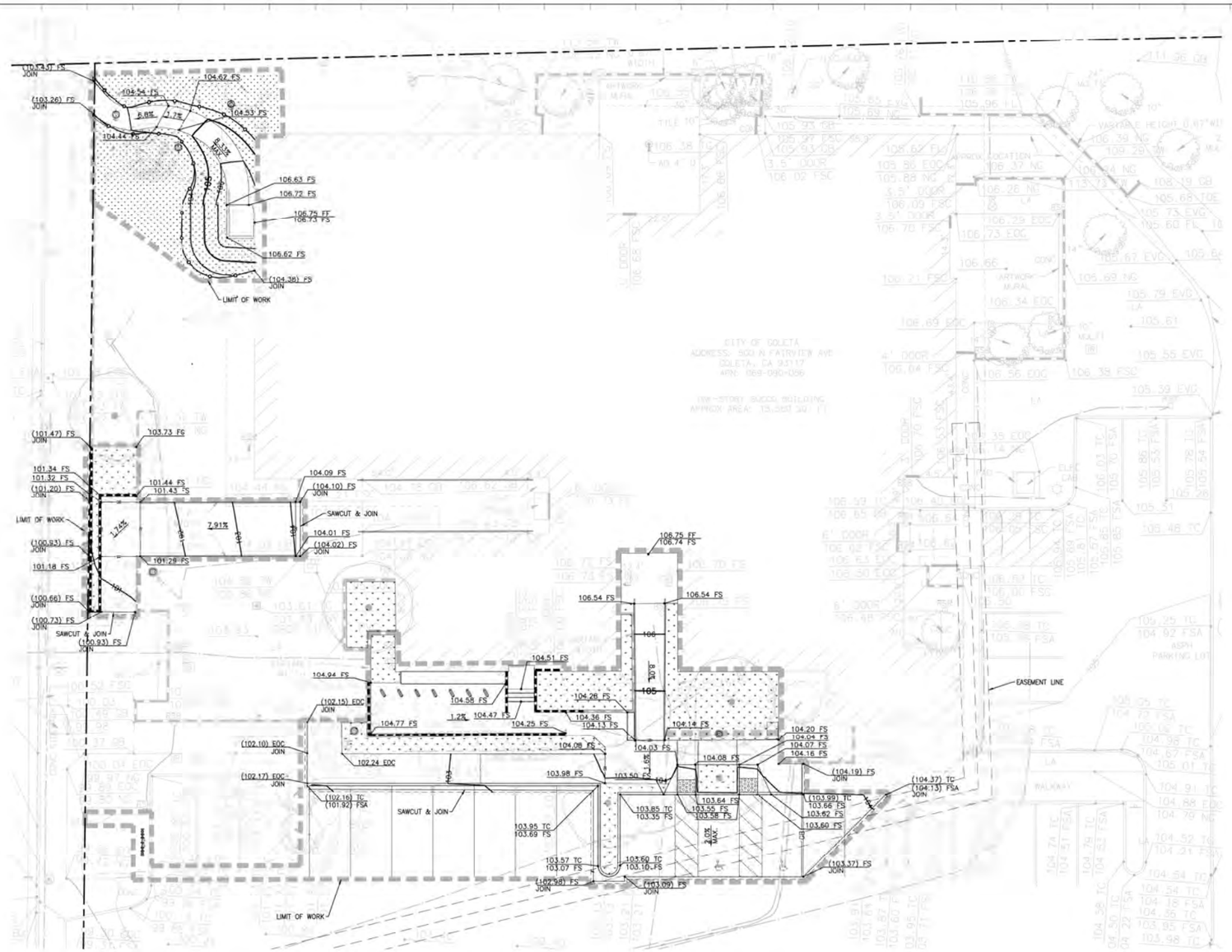
JENSEN HUGHES

| No. | Description | Date |
|---|---|---|
| | ISSUED FOR PERMIT | 03 MAY 2023 |

REGISTERED PROFESSIONAL ENGINEER — No. C59684 — Exp. 12/31/25 — CIVIL — STATE OF CALIFORNIA

DEMOLITION PLAN

Project No.: 2430
Issued On: 04/28/23
Drawn By: JBM
Checked By: KC
Scale: 1"=10'




| ESTIMATED EARTHWORK QUANTITIES | |
|---|---|
| CUT: | 38 CUBIC YARDS |
| FILL: | 41 CUBIC YARDS |
| NET (CUT): | 3 CUBIC YARDS |

**NOTES:**
1. THE ESTIMATED QUANTITIES PROVIDED ABOVE ARE TO BE USED FOR JURISDICTIONAL PLAN CHECKING AND PERMITTING PURPOSES ONLY.
2. ESTIMATED EARTHWORK ABOVE IS BASED ON DESIGN FINISH GRADES TO EXISTING GRADES AND/OR CONTOURS AS PROVIDED ON THE BASE SURVEY. THE ESTIMATED EARTHWORK DOES NOT ACCOUNT FOR THE THICKNESS OF PAVEMENTS, DEEPEND FOUNDATIONS, FOOTINGS, CLEARING AND GRUBBING, AND CONSTRUCTION MEANS AND METHODS.
3. THE ESTIMATED EARTHWORK QUANTITIES DO NOT INCLUDE SHRINKAGE AND/OR EXPANSION FACTORS DUE TO COMPACTION OR OVER EXCAVATION QUANTITIES.
4. THE CONTRACTOR SHALL CALCULATE THEIR OWN EARTHWORK QUANTITIES NECESSARY FOR THEIR BID AND WORK.

**NOTE:**
I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE GRADING DESIGN PLAN

SCALE: 1"=10'

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INTERFACE ENGINEERING

JENSEN HUGHES

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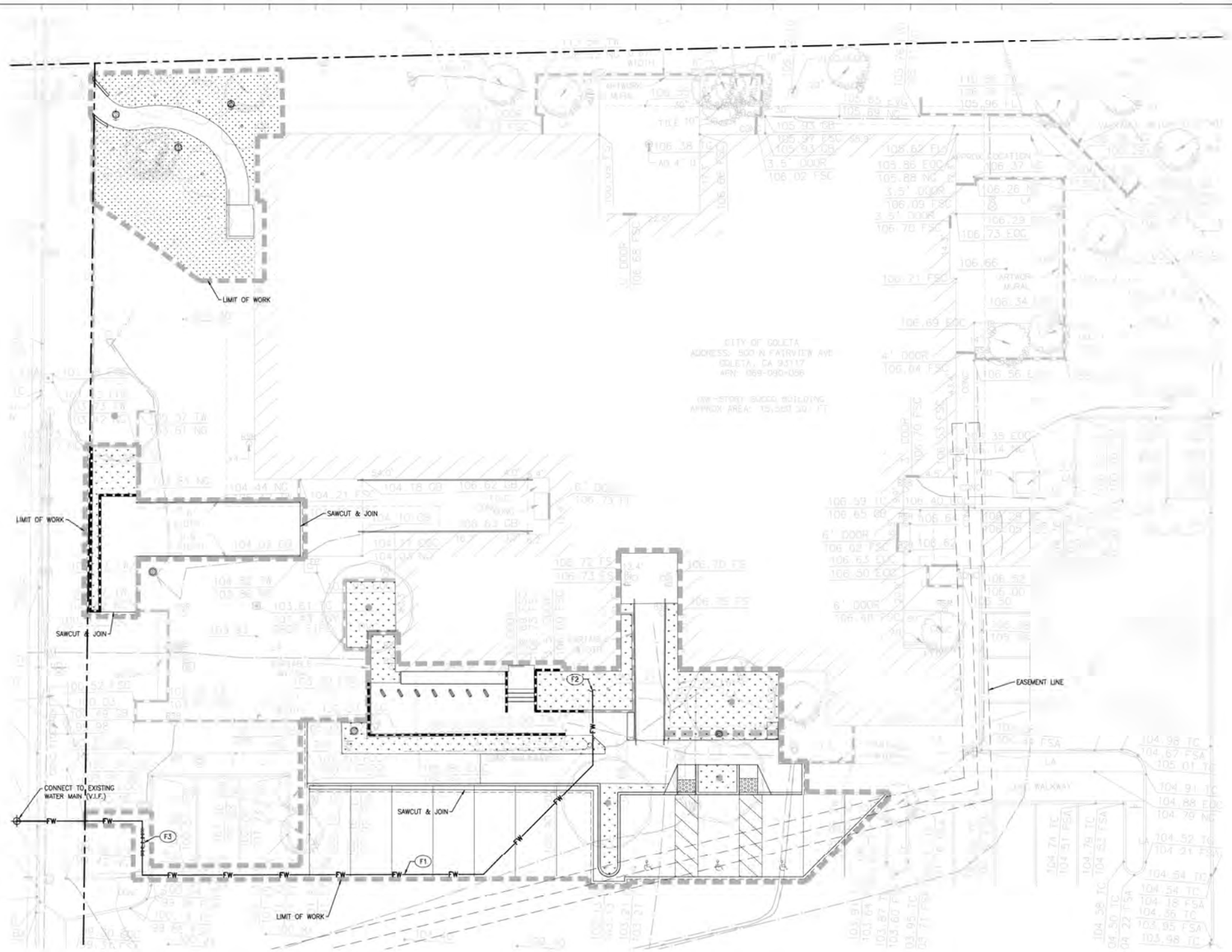
GRADING PLAN

Project No.: 2453004
Sheet No.: C1.30
Drawn By: JM
Checked By: KC
Scale:




## UTILITY CONSTRUCTION NOTES:

**FIRE WATER**

(F1) PVC C-900 FIRE WATER PIPE PER DETAIL 2, SHEET C5.01. SIZE PER PLAN.

(F2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE FIRE SPRINKLER DRAWINGS FOR CONTINUATION.

(F3) BACKFLOW PREVENTION DEVICE. PER DETAIL 1, SHEET C5.01.

## LEGEND:

- LIMIT OF WORK
- PROPERTY LINE
- SS — SANITARY SEWER
- W — WATER
- DW — DOMESTIC WATER
- FW — FIRE WATER
- SD — STORM DRAIN
- G — GAS
- E — ELECTRIC
- T — TELEPHONE
- PERFORATED PIPE
- POINT OF CONNECTION
- COORDINATION POINT
- CAP OR PLUG
- UTILITY MANHOLE
- UTILITY CLEANOUT
- STORM DRAIN INLET
- AREA DRAIN/PLANTER DRAIN
- TRENCH DRAIN
- FIRE HYDRANT
- THRUST BLOCK
- FIRE DEPARTMENT CONNECTION (FDC)
- POST INDICATOR VALVE (PIV)
- WATER VALVE
- BACKFLOW ASSEMBLY
- UTILITY METER VAULT

**NOTE:**
IRRIGATION WATER METER, LINES AND APPURTENANCES BY OTHERS.

**NOTE:**
ALL BMP'S PROPOSED AS A PART OF THIS PROJECT ARE TO BE INSPECTED BY THE ENGINEER OF RECORD AFTER INSTALLATION AND PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANCY.

**NOTE:**
PRIOR TO THE INSTALLATION OF ALL STORM DRAIN AND SEWER MAIN LINE CONNECTIONS, THE CONTRACTOR SHALL POTHOLE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE MAIN LINE. IF CONDITIONS DIFFER FROM THOSE ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITION HAS BEEN EVALUATED.

SCALE: 1"=10'

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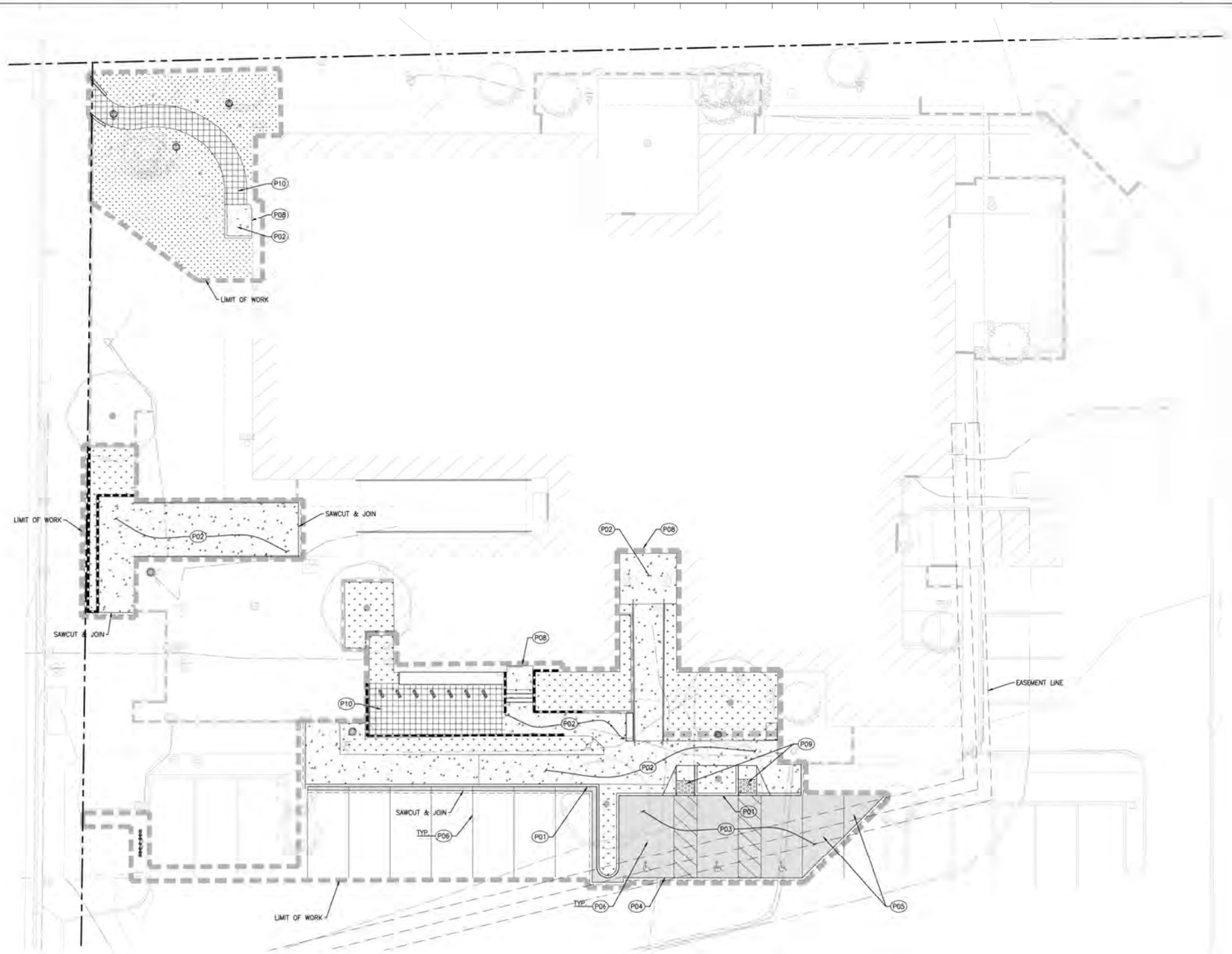
REGISTERED PROFESSIONAL ENGINEER — KEITH C. PIPPIN — No. C59694 — Exp. 12/31/26 — CIVIL — STATE OF CALIFORNIA

UTILITY PLAN

Project No.: [illegible]
Issued for: 3/20/25
Drawn By: JM
Checked By: KC
Scale: [illegible]




## PAVING CONSTRUCTION NOTES

- (P01) CONCRETE CURB. PER DETAIL 1 ON SHEET C5.00.
- (P02) CONCRETE PAVEMENT. PER DETAIL 2 ON SHEET C5.00.
- (P03) ASPHALT CONCRETE PAVEMENT. PER DETAIL 3 ON SHEET C5.00.
- (P04) ASPHALT PAVEMENT JOIN. PER DETAIL 4 ON SHEET C5.00.
- (P05) PARKING STALL. PER DETAIL 5 ON SHEET C5.00.
- (P06) ACCESSIBLE PARKING STALL. PER DETAIL 6 ON SHEET C5.00.
- (P07) CURB RAMP. PER DETAIL 7 ON SHEET C5.00.
- (P08) ISOLATION JOIN AT STRUCTURE. PER DETAIL 3 ON SHEET C5.01
- (P09) TRUNCATED DOMES. PER DETAIL 4 ON SHEET C5.01.
- (P10) PERMEABLE PAVERS PER LANDSCAPE DRAWINGS.

## LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- PEDESTRIAN CONCRETE PAVEMENT (REFER TO SHEET C5.00 FOR DETAILS)
- PASSENGER VEHICLE ASPHALT (REFER TO SHEET C5.00 FOR DETAILS)
- PLANTER AREA/LANDSCAPE (REFER TO LANDSCAPING PLANS FOR DETAILS)
- EXISTING BUILDING (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
- PERMEABLE PAVERS (REFER TO LANDSCAPE PLANS FOR DETAILS)

**NOTE TO CONTRACTOR/CONSTRUCTION SURVEYOR:**

CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR. CONSTRUCTION STAKING SURVEYOR SHALL BE RESPONSIBLE FOR COORDINATION OF THESE PLANS WITH SOURCE DRAWINGS PREPARED BY ARCHITECT, LANDSCAPE ARCHITECT, STRUCTURAL ENGINEER, MEP CONSULTANT AND ANY OTHER DISCIPLINE PRIOR TO START OF STAKING AND CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED.

N

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SCALE: 1"=10'

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Consultant:
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REGISTERED PROFESSIONAL ENGINEER
[illegible]
No. C59894
Exp. 12/31/20
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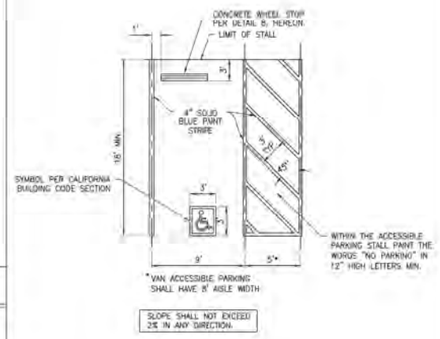
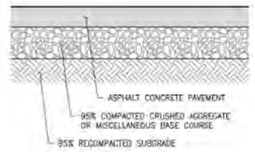
PAVING PLAN

Project No.: [illegible]
Issued On: 3/03/2023
Drawn By: JSM
Checked By: KC
Scale:

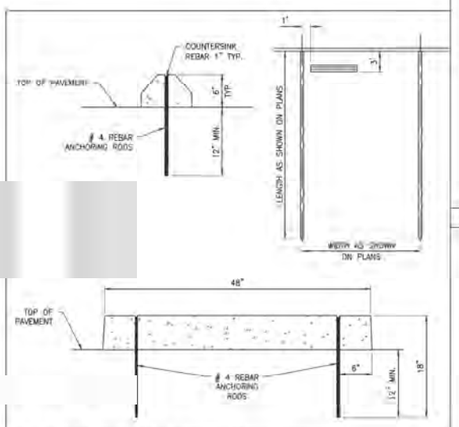



6 ACCESSIBLE 90° PARKING STALL N.T.S.

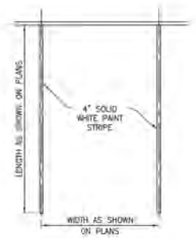



| A.C. PAVEMENT TYPE | ASPHALT CONCRETE (INCHES) | BASE COURSE (INCHES) | RECOMPACTED SUBGRADE (INCHES) |
|---|---|---|---|
| VEHICULAR PARKING | MATCH EXISTING | MATCH EXISTING | 12" |

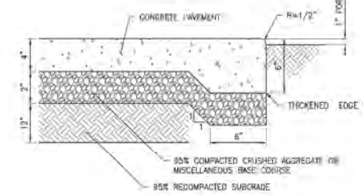
3 ASPHALT PAVEMENT SECTION N.T.S.




8 4" LONG REINFORCED PRECAST WHEEL STOP N.T.S.



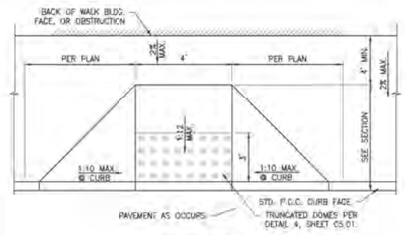

5 STANDARD 90° PARKING STALL N.T.S.



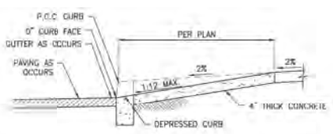

NOTES:

1. ALL TREAD SURFACES SHALL BE SLIP-RESISTANT.
2. REFER TO ARCHITECTURAL DRAWINGS FOR COLOR, PATTERN, TEXTURE, AND FINISH.
3. SEE PLAN FOR LOCATION OF CONTROL JOINTS.

2 CONCRETE WALK SECTION N.T.S.




PLAN VIEW

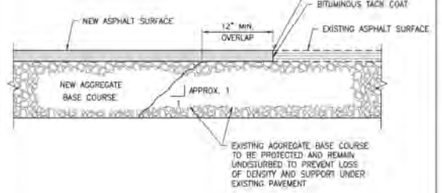



SECTION

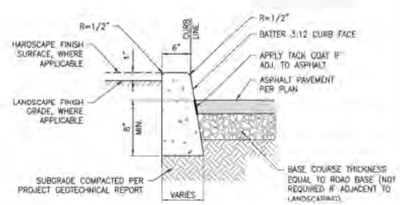
NOTES:

1. CONCRETE SHALL BE 2500 PSI.
2. RAMP SURFACE SHALL BE SLIP-RESISTANT AND SHALL BE OF CONTRASTING FINISH FROM THAT OF THE ADJACENT SIDEWALK.
3. DIMENSIONS MAY VARY DEPENDING ON CROSS SLOPE CONDITIONS.

7 CURB RAMP N.T.S.




4 ASPHALT PAVEMENT JOIN DETAIL N.T.S.




NOTES:

1. ISOLATION JOINTS SHALL BE PLACED ONLY AS SPECIFIED
2. CONTROL JOINTS CONSISTING OF 1" DEEP SCORES SHALL BE PLACED AT 10' INTERVALS O.C.
3. WHERE A WALK IS ADJACENT TO THE CURB, THE JOINTS SHALL ALIGN WITH JOINTS IN THE WALK.

1 CONCRETE CURB N.T.S.

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REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER M. CONRAD No. C59994 CIVIL STATE OF CALIFORNIA

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Project No.: 2002004
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29

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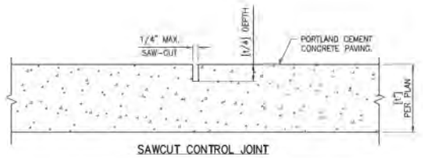
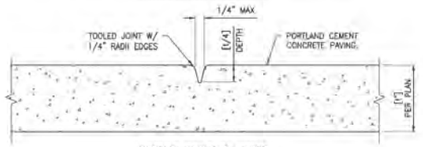



SAWCUT CONTROL JOINT

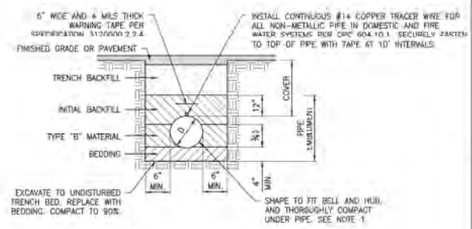



TOOLED CONTROL JOINT

NOTES:

1. CONTROL JOINTS SHALL BE CONSTRUCTED PER S.S.P.W.C.
2. CONSTRUCT CONTROL JOINTS WITHIN 24 HOURS OF POUR.
3. SEE PLAN FOR LOCATION OF CONTROL JOINTS.

5 | CONTROL JOINT FOR CONCRETE PAVEMENT N.T.S.

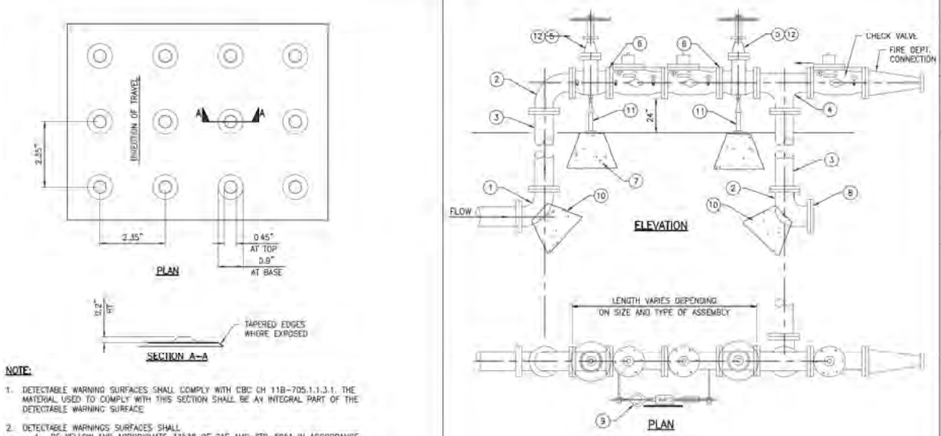



| | |
|---|---|
| BEDDING | CLEAN COARSE SAND. |
| CLEAN COARSE SAND | SHALL CONFORM TO THE REQUIREMENTS OF SAND FOR PORTLAND CEMENT CONCRETE AS SPECIFIED IN SECTION 200-1.8.5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2021 EDITION. |
| INITIAL BACKFILL | NATIVE MATERIAL – MAXIMUM SIZE NOT TO EXCEED 1 1/2". |
| TRENCH BACKFILL | NATIVE MATERIAL – 90% COMPACTION MIN. (95% COMPACTION IN UPPER 3.0' OF PAVED AREAS). UP TO CLASS IV SOILS, TYPE ML,CL, FINE GRAINED, LL<50, MEDIUM TO NO PLASTICITY. NOTE, IF CLASS IV SOIL, TYPE MH OR ALL CLASS V SOILS THEN USE CLEAN COARSE SAND. |
| "TYPE" B MAFERIAL | SHALL BE ONE OF THE FOLLOWING:<br>1. NATIVE FREE DRAINING MATERIAL OR CRUSHED ROCK CONFORMING TO SUBSECTION 200-1.2 AND TABLE 200-1.3.1(A) OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION". FOR PIPES UP TO AND INCLUDING 15", MAXIMUM ROCK GRADATION SHALL BE 3/4". FOR PIPES OVER 15", MAXIMUM ROCK GRADATION SHALL BE 1".<br>2. CLEAN COARSE SAND. |

NOTES:

1. EXCAVATE FOR BELLS OR HUBS SO FULL LOAD IS CARRIED BY PIPE BARRELS.
2. TYPE "B" MATERIAL SHALL BE PLACED IN A MANNER SUCH AS SLICING SHOVEL-SPADING, OR SHOVEL RODDING TO INSURE COMPLETE FILLING OF THE "HAUNCH AREAS" BELOW THE PIPE. (JETTING OF TYPE "B" MATERIAL IS NOT AUTHORIZED UNLESS PREVIOUSLY APPROVED).
3. TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 217-1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2021 EDITION. WATER JONSIFIED BACKFILL SHALL NOT BE USED.

2 | FLEXIBLE PIPE BEDDING DETAIL N.T.S.



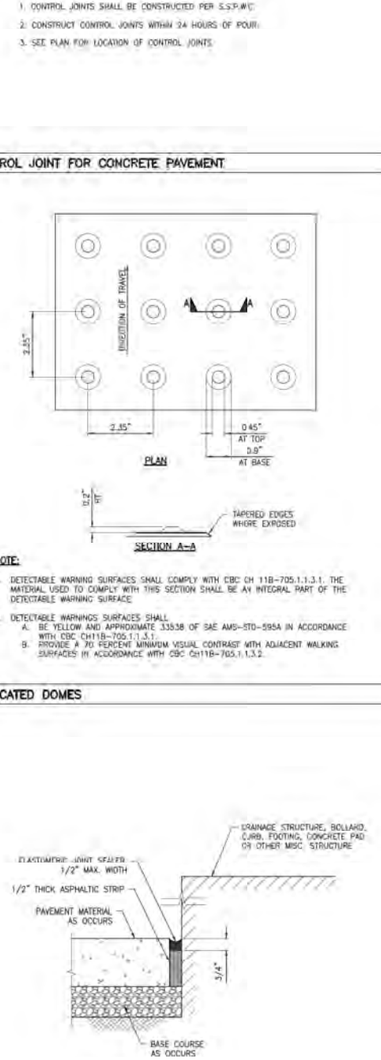

MATERIAL

1. 90° D.I. ELL FLG x PE
2. 90° D.I. ELL FLG x FLG
3. D.I. (CL) SPOOL FLG x FLG
4. D.I. (CL) TEE AND FIRE DEPT. CONNECTION
5. APPROVED SHUT-OFF VALVES.
6. APPROVED DOUBLE CHECK VALVES (SEE PLAN FOR SIZE)
7. CONCRETE FOOTING
8. TEMPORARY D.I. BLIND FLANGE, AS REQUIRED.
9. FACTORY INSTALLED BY-PASS METER ASSEMBLY.
10. THRUST BLOCK
11. GALVANIZED ADJUSTABLE PIPE SUPPORT, PER MANUFACTURER'S RECOMMENDATION.
12. TAMPER SWITCHES – TO FACP, WHEN REQUIRED.

NOTES:

1. INSTALLATION SHALL COMPLY WITH THE LATEST PLUMBING CODES AND APPLICABLE LOCAL AGENCY REQUIREMENTS.
2. THRUST BLOCKS SHALL BE SIZED PER DETAIL SHOWN HEREON.
3. THE OUTLET FDC CONFIGURATION IS CONCEPTUAL AND SHOWN FOR COORDINATION PURPOSES ONLY. THE CONTRACTOR SHALL COORDINATE THE FDC OUTLET CONFIGURATION WITH THE FIRE SPRINKLER DRAWINGS.

4 | TRUNCATED DOMES N.T.S.




NOTE:

1. DETECTABLE WARNING SURFACES SHALL COMPLY WITH CBC CH 11B-705.1.1.3.1. THE MATERIAL USED TO COMPLY WITH THIS SECTION SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.
2. DETECTABLE WARNINGS SURFACES SHALL
   A. BE YELLOW AND APPROXIMATE 33538 OF SAE AMS-STD-595A IN ACCORDANCE WITH CBC CH11B-705.1.1.3.1.
   B. PROVIDE A 70 PERCENT MINIMUM VISUAL CONTRAST WITH ADJACENT WALKING SURFACES IN ACCORDANCE WITH CBC CH11B-705.1.1.3.2.




3 | ISOLATION JOINT AT STRUCTURE N.T.S.

1 | DOUBLE DETECTOR CHECK ASSEMBLY W/FIRE DEPARTMENT CONNECTION N.T.S.

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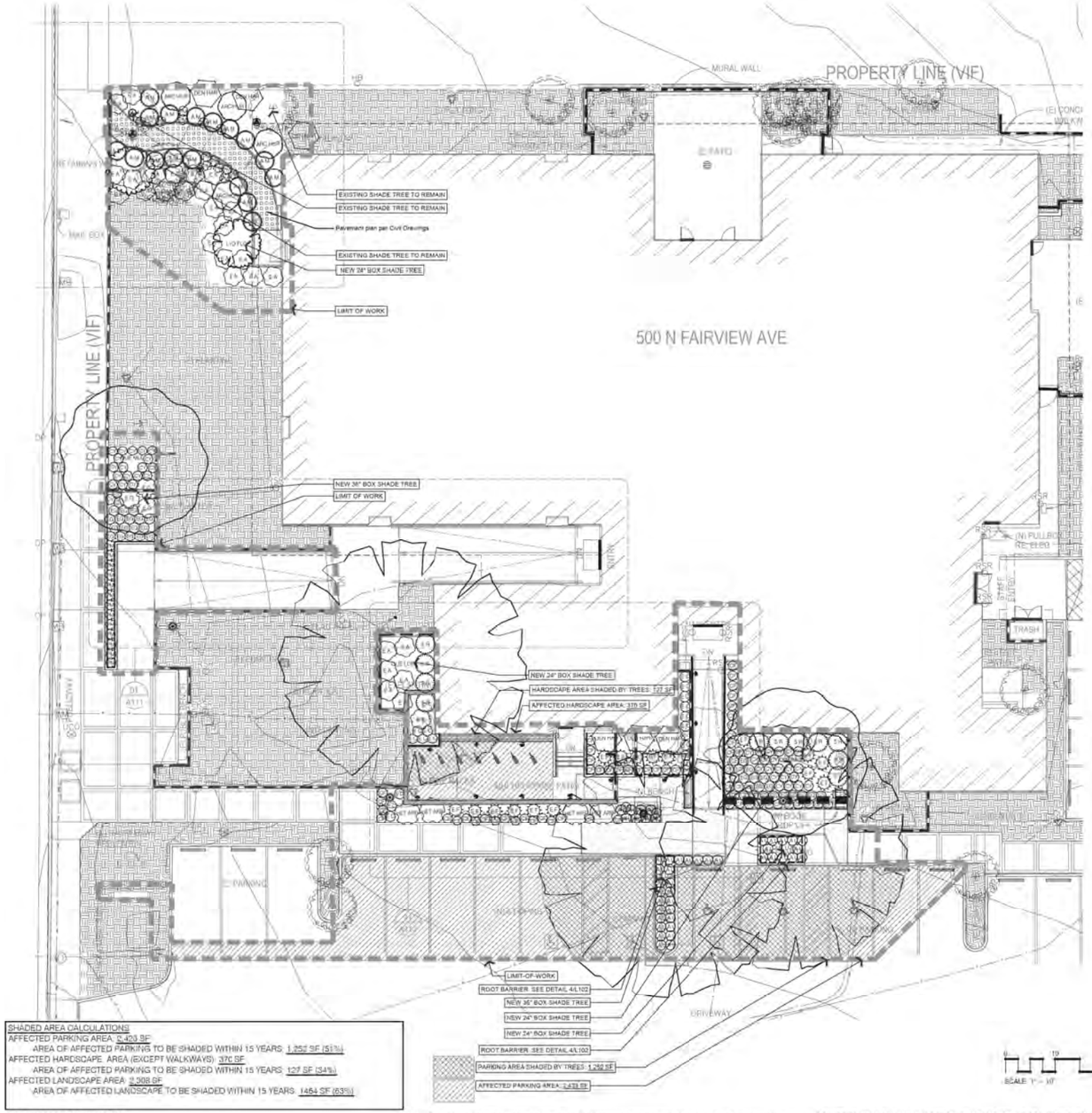


SHADED AREA CALCULATIONS

AFFECTED PARKING AREA: 2,433 SF
AREA OF AFFECTED PARKING TO BE SHADED WITHIN 15 YEARS: 1,252 SF (51%)
AFFECTED HARDSCAPE AREA (EXCEPT WALKWAYS): 370 SF
AREA OF AFFECTED PARKING TO BE SHADED WITHIN 15 YEARS: 127 SF (34%)
AFFECTED LANDSCAPE AREA: 2,308 SF
AREA OF AFFECTED LANDSCAPE TO BE SHADED WITHIN 15 YEARS: 1464 SF (63%)

## PLANT SCHEDULE

| SYMBOL | CODE | BOTANICAL NAME | COMMON NAME | SIZE | QTY | REMARKS | WATER USE |
|---|---|---|---|---|---|---|---|
| **TREES** | | | | | | | |
| | ARC HUR | Arctostaphylos manzanita 'Dr. Hurd' | Dr. Hurd Common Manzanita | 24" | 4 | | Very low - Low |
| | EXIST | Existing | Tree | — | 54 | | Medium |
| | LYO FLO | Lyonothamnus floribundus aspleniifolius | Fernleaf Catalina Ironwood | 36" | 1 | | Low |
| | PRU LYO | Prunus ilicifolia lyonii | Catalina Cherry | 24" | 1 | | Very low - Low |
| | QUE MUL | Quercus agrifolia | Coast Live Oak Multi Trunk | 36" | 2 | | Very low |
| | QUE LOB | Quercus lobata | Valley Oak | 24" | 3 | | Low - Medium |
| **SHRUBS** | | | | | | | |
| | A L | Achillea millefolium | Common Yarrow | 1 gal. | 40 | | Low |
| | A M | Arctostaphylos hookeri 'Monterey Carpet' | Monterey Carpet Hookeri's Manzanita | 1 gal. | 17 | | Low |
| | CY | Ceanothus gloreus horizontalis 'Yankee Point' | Yankee Point Carmel Creeper | 1 gal. | 42 | | Low |
| | CF | Coreopsis gigantea 'Silver Carpet' | California Aster | 1 gal. | 65 | | Medium |
| | DEN HAR | Dendromecon harfordii | Island Bush Poppy | 5 gal. | 6 | | Very low - Low |
| | E C | Elymus condensatus 'Canyon Prince' | Canyon Prince Wild Rye | 5 gal. | 18 | | Low |
| | E F | Eriobotrya cercum 'Catalina' | Catalina California Fuchsia | 1 gal. | 17 | | Very low - Medium |
| | EG | Erigeron glaucus 'Wayne Roderick' | Wayne Roderick Seaside Daisy | 1 gal. | 33 | | Low |
| | E A | Eriogonum arborescens | Santa Cruz Island Buckwheat | 5 gal. | 28 | | Very low - Low |
| | E G | Eriogonum giganteum | St. Catherine's Lace | 5 gal. | 3 | | Very low |
| | HET ARB | Heteromeles arbutifolia | Toyon | 15 gal | 4 | | Low |
| | PM | Penstemon heterophyllus 'Margarita BOP' | Margarita BOP Penstemon | 1 gal. | 26 | | Low - Medium |
| | S R | Salvia leucophylla 'Point Sal Spreader' | Point Sal Spreader Purple Sage | 5 gal. | 11 | | Low |

### TREE PRESERVATION NOTES:

1. The preservation of existing trees within the limit of work is critical to the success of the project.
2. Contractor shall not store equipment, fuel, materials, park cars, locate temporary facilities or trash not store equipment, fuel, materials, park cars, locate temporary facilities or trash temporary facilities or trash containers, stockpile excavation, wash-out concrete trucks, allow spillage or dumping of deleterious substances or allow laborers to congregate within drip lines of existing trees.
3. Contractor shall limit equipment or vehicular access within drip lines of trees to foot traffic, carts or bobcats to avoid soil compaction.
4. Contractor shall excavate within tree drip lines by hand.
5. Roots 1" and larger shall not be cut or severed excavate within tree drip lines by hand.
6. Roots 1" and larger shall not be cut or severed without prior approval of the owner's representative
7. Should preserved roots interfere with work progress the contractor shall seek direction prior to proceeding.
8. No excavation for any trenches for any utility allowed under driplines of existing trees.
9. Trenches for all pipes, conduit and wiring shall be placed outside tree drip-lines. Where not possible, or shown otherwise on plans, Contractor shall use air-spade for excavation, and backfill trenches; under the direction of a certified arborist supplied by landscape contractor.
10. When air-spade excavating trenches within tree drip lines the contractor shall maintain, in-place, all tree roots and tunnel underneath them to the required depth of the trench. Exposed tree roots bridging trenches shall be wrapped in burlap if exposed for more than 24hrs. Burlap shall be kept moist.
11. Pipes, conduit and wiring shall be run beneath or between roots. Should root elevation interfere with required locations or elevations contractor shall submit a written RFI for direction
12. Backfill and compact trenches with specified bedding material hand tamping to achieve required compaction without disturbing roots.
13. Excess soils from trenching shall not be stockpiled within tree drip lines and shall be legally disposed of off-site. If unavoidable, and as approved, excess plywood board-roading may stay in place for no more than seven (7) days.
14. Contractor shall install and maintain tree protection fencing and trunk protection planking throughout the course of construction. Planking and tree protection fencing shall be removed after substantial completion.
15. To facilitate the progress of work the contractor may temporarily relocate tree protection fencing for up to 24 hours as approved by the owner's rep.
16. Any root severed by construction activity shall be pruned flush with soil.
17. Backfill exposed roots with imported topsoil as soon as possible. If root needs to be uncovered for more than twenty four (24) hours, cover with hardwood mulch.
18. Contractor shall limit soil cut and fills within tree drip-lines to no more than 1" above or below existing grade. If plans indicate otherwise submit written RFI for direction.
19. No soil or mulch is permitted on the root flare of any tree.
20. Existing and relocated trees to be preserved shall be watered once a week during periods of hot, dry weather or as directed.
21. Tree canopies shall be sprayed with water monthly to avoid dust accumulation on leaves.
22. Contractor shall assume responsibility for the boxing, storage, watering and maintenance of relocated trees during construction and prior to re-planting.
23. Contractor shall confirm location and re-location of all existing and relocated trees to be preserved with owner's representative prior to commencing work.

### SOIL PREPARATION AND IMPORTED PLANTING SOIL REQUIREMENTS: (ON-GRADE APPLICATIONS) -

1. Contractor to remove all debris, clear, grub & rake all planting areas prior to planting. Contractor to arrange for a soil test in a min. of 2 locations by an authorized soils lab prior to any new landscape planting to identify soil characteristics and recommend fertilizers, amendments and installation procedures. soil samples results will be submitted to the i.a. for review. Contractor shall hand cultivate areas with existing plant material.
2. Soil amendment and fertilizer: (for bid purposes only. actual spec. to be determined by soil test) after setting finish grade amend soil as follows:
   6 cubic yards/ organic amendment per 1000 sq. ft.
   5 pounds commercial fertilizer (10-10-10) per 1000 sq. ft.
3. Broadcast soil amendment uniformly over planting area and incorporate into the top 5 inches of soil
4. Imported planting soil for all pits for all trees and shrubs. soil test results to be applied if different from general imported planting soil specifications. Thoroughly pre-mix imported planting soil per cubic yard as follows:
5. 3 parts by volume of clean on-site topsoil.
6. 1 part by volume of nitrogen-stabilized organic amendment.
7. organic fertilizer tablets to be 7-gram 12-8-8 at the following rates:
   1 gal. can - 3 tablets
   5 gal. can - 8 tablets
   15 gal. can - 13 tablets
   24" box - 15 tablets
   36" box - 20 tablets
8. Create temporary watering basin around each planting pit. Apply fertilizer tablets, agriform or equal per manufacturer's written specifications.

### PLANTING NOTES

1. Contractor shall install plant material in accordance with these contract documents including but not limited to: plans, details, drawings, notes and specifications.
2. Contractor is responsible for complying with applicable codes and requirements for both equipment and installation.
3. Contractor shall obtain all necessary permits required to perform the work indicated herein before beginning work.
4. Written specifications and notes supersede drawings. If conditions in the field are in conflict with drawings, notify Owner or LA prior to proceeding.
5. Contractor shall provide one photograph of each tree variety and size, called out on drawings, and send to Owner's authorized representative or LA for approval prior to purchase, delivery to site or installation. Contractor is responsible for timely delivery of such photos; allowing adequate time for Owner's rejection of material and resubmittal without compromise to overall Landscape installation schedule.
6. At Landscape Architect's discretion, Landscape Architect may tag all site trees.
7. Trees shall be preliminarily tagged by Contractor. Contractor shall observe each tree in order to ascertain that trees are healthy, free of pests, diseases, root girdling, scars, and that trees have good branch attachment. Landscape Architect may reject any trees brought to the site which are not in good form and health.
8. Trees and shrubs shall come from reputable tree farms and nurseries. Nurseries shall be members of the California Association Of Nurseries And Garden Centers (CANGC), and shall have conducted business as a tree farm in current location and under current Ownership for a minimum of three years. Contractor required to submit proof that nursery meets the above qualifications.
9. Landscape Architect reserves the right to reject all plant material deemed to be unsuitable for Project for any reason once it is onsite. Root ball condition of plants furnished by the Contractor in containers will be determined by removal of earth from the roots of not less than 2 plants nor more than 2 percent of the total number of plants of each species or variety, except when container-grown plants are from several sources, the roots of not less than 2 plants of each species or variety from each source will be inspected by the Landscape Architect. In case the sample plants inspected are found to be defective, including but not limited to: root bound or underdeveloped root ball, the Landscape Architect reserves the right to reject the entire lot or lots of plants represented by the defective samples. Plants rendered unsuitable for planting because of this inspection will be considered as samples and will not be paid for.
10. All plants shall arrive on site with nursery tags. Those without nursery tags are subject to rejection.
11. Final locations of trees and shrubs shall be approved by the Owner or LA prior to planting. Completed planting and irrigation shall be inspected by the Owner's authorized agent or observed by Landscape Architect prior to final acceptance.
12. Contractor shall guarantee all new plants as follows:
    trees (24" box and larger) - 1 year
    shrubs and vines (1 gal. and larger) - 1 year
    ground cover - 6 months
13. Plant material which in the judgment of the Owner or LA is not healthy and vigorous at the end of the maintenance period and/or guarantee period shall be replaced by Contractor at no cost to Owner.
14. Contractor shall provide a maintenance period of not less than 90 days commencing at the date of final acceptance. Such maintenance shall include all care pertaining to all work installed as part of these contract documents. Contractor shall submit a written log of dates, staff, and actions performed during such maintenance period.
15. quality and size of all plants shall conform to the california standard grading code of nursery stock and shall be number one grade. These shall be no insects, eggs, or larvae.
16. Contractor shall submit supplier receipts to Owner's authorized agent for all materials used onsite with billing.
17. Contractor shall confirm with growers that plants purchased for this Project are properly acclimatized to Projects conditions and seasons of planting.
18. Contractor shall store plant material in shade and protect from the sun; maintain plants in moist condition prior to planting.
19. Contractor shall plant all plants so that after full settling, the crown of the plant is even with or 1" above the finish grade. After planting, smooth soil around the plant, compact 12" above the finish grade. After planting, smooth soil around the plant, compact by foot and water with a fine spray.
20. Contractor shall water thoroughly, immediately after planting. Water settle and hand tamp all backfilled areas thoroughly.
21. Contractor shall water settle and hand compact all soil in built-up planters. Such compaction shall occur over a 3-day period, one week minimum prior to planting, in order to maximize settlement. Contractor shall install additional soil as required to bring top of finish grade to 2" below top of wall, or to top of waterproofing membrane where waterproofing membrane is higher than 3" below top of wall.
22. All drainage and tree support gravel to be 3/4" diameter washed gravel.
23. Contractor shall top dress all planting areas with 2" redwood mulch unless otherwise noted.
24. Contractor shall remove all nursery stakes and tags from all plant materials after planting.
25. Contractor shall double stake or guy all trees 15 gallons and larger immediately after planting per drawings. Do not penetrate water proofing membrane. Do not penetrate root ball.
26. Mulch shall not be placed closer than 2" away from the crown of any ground cover, shrub or tree.

I have complied with the criteria of the ordinance and applied them for the efficient use of water in the landscape design plan.
SIGNED: [signature] DATED: DECEMBER 30, 2024

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Manhattan Beach, CA 90266
(310) 484-3530
www.JMADstudio.com

Consultants:
kpff

UPLA STUDIO

INTERFACE ENGINEERING

JENSEN HUGHES

| Issued For | |
|---|---|
| ISSUED FOR PERMIT | 20 MAR 2025 |

Key Plan:

Seal & Signature:
REGISTERED LANDSCAPE ARCHITECT STEPHANIE REDFORD J. Redford Expires 8/31/26 CA 6386 STATE OF CALIFORNIA

Sheet Name:
Landscape Plan

| Project No. | 2400306 | Sheet No. |
|---|---|---|
| Drawn By | CM | L.1.01 |
| Checked By | KS | |
| Scale | AS NOTED | |

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Consultant
JENSEN HUGHES

Issued for:

| No. | Description | Date |
|---|---|---|
| | ISSUED FOR PERMIT | 20 MAR 2025 |
| | | |

Seal & Signature:

REGISTERED LANDSCAPE ARCHITECT
STEPHANIE REED
4 Red
Expires 8/30/26
STATE OF CALIFORNIA

Sheet Name:
Planting Details

Project No.

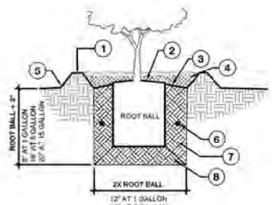
Drawn By:

Checked By:

Scale:

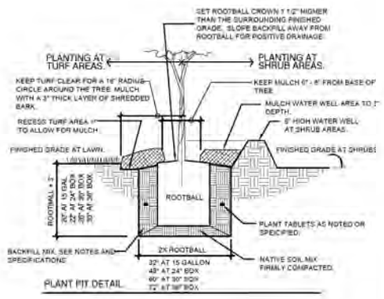
Sheet No.
L.102





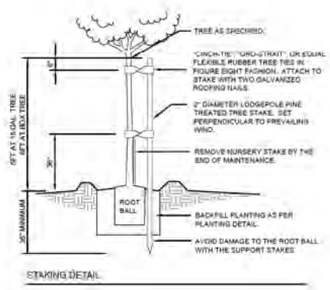

1. WATER WELL: 4" HIGH AT SHRUB, NO WATER WELL AT LAWN AREA
2. SET ROOT BALL CROWN 1" HIGHER THAN SURROUNDING FINISHED GRADE
3. SLOPE FINISHED GRADE AT BACKFILL AWAY FROM ROOT BALL
4. MULCH TO 2" DEPTH AT WATER WELL
5. FINISHED GRADE
6. PLANT TABLETS AS NOTED OR SPECIFIED.
7. BACKFILL MIX. SEE NOTES AND SPECIFICATIONS
8. NATIVE SOIL MIX FIRMLY COMPACTED.

**1 SHRUB PLANTING**

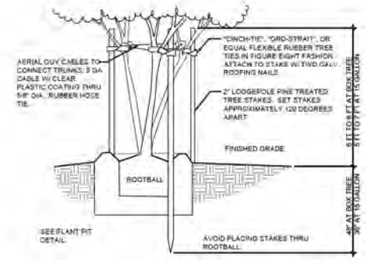



PLANT PIT DETAIL

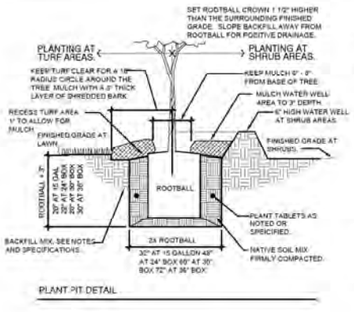
**2 TREE SINGLE STAKE PLANTING**




STAKING DETAIL

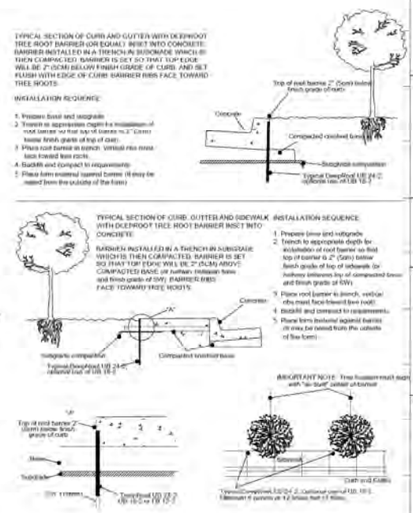



STAKING DETAIL

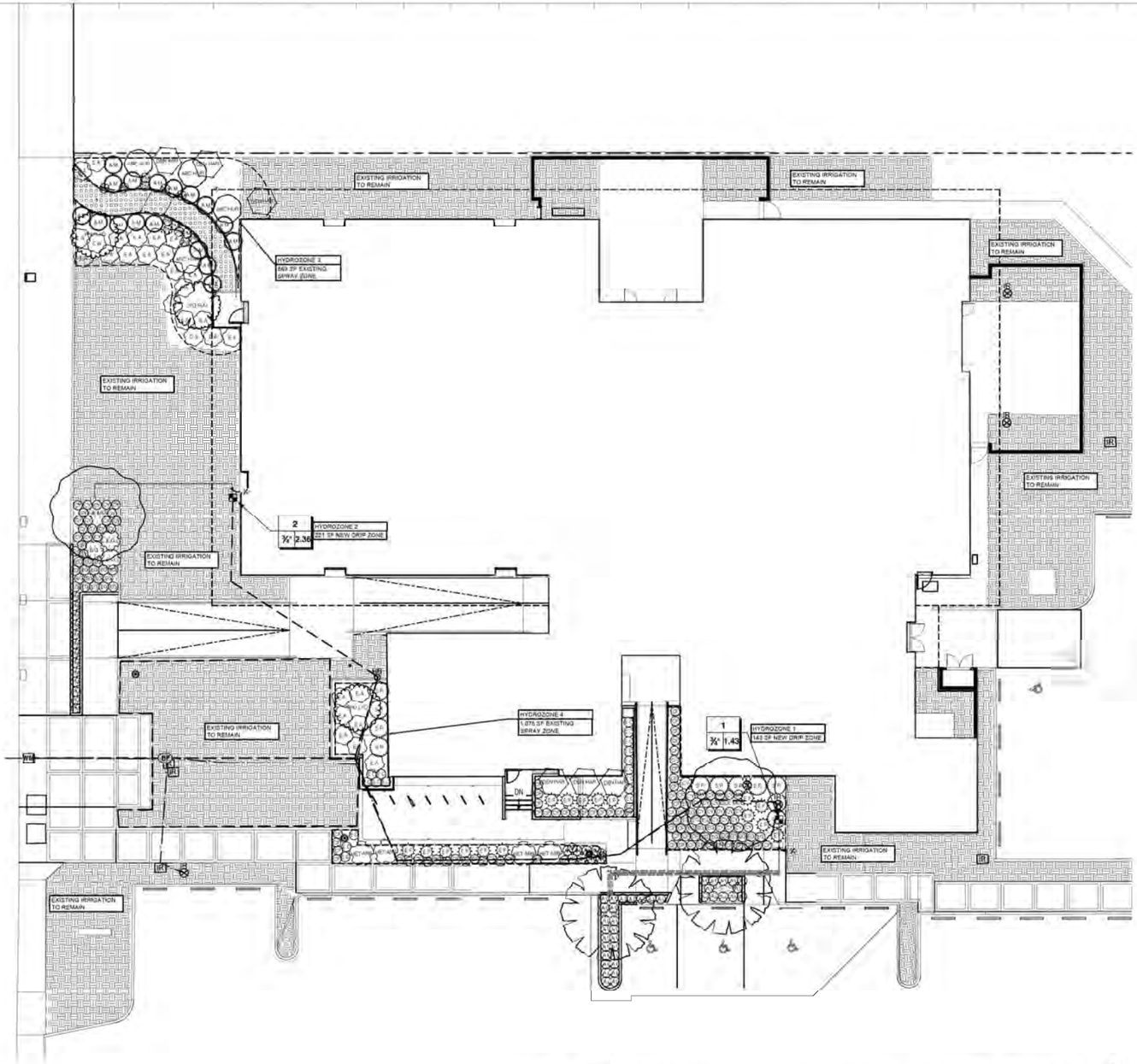



PLANT PIT DETAIL

**3 TREE PLANTING MULTI-STAKE**




**4 TREE ROOT BARRIER AT SIDEWALK OR CURB**
NTS




IRRIGATION NOTES

1. Install all equipment as described in the contract documents, including but not limited to plans, details, notes, and specifications.
2. Contractor is responsible for complying with applicable codes and requirements for both equipment and installation.
3. Contractor shall obtain all necessary permits required to perform the work indicated herein before beginning work.
4. Written specifications and notes supersede drawings. If conditions in field are in conflict with drawings, notify Owner or landscape architect prior to proceeding.
5. Contractor is responsible for providing 100% head-to-head irrigation coverage of all planting areas.
6. Valve sun and shade areas separately. Report discrepancies in writing to Owner's authorized agent prior to installation.
7. Flush all lines and adjust all heads for maximum performance, according to contract documents & equipment manufacturer's instruction, and prevent over spray onto walks and streets.
8. All valves shall be located in shrub planting areas. valve boxes shall be installed parallel or perpendicular to building walls, and pathways. verify location of all remote valve boxes with Owner or landscape architect before installation.
9. In the event that tree root ball location conflicts with irrigation equipment, equipment shall be removed and reinstalled at no cost to Owner.
10. Irrigation lines installed in planter less than 24" in width shall be run down one side of the planter or the other, not the middle.
11. Contractor to ensure that every remote control valve and hose bibb indicated shall be served by pressure supply mainline. The indicated mainline in the plan shall serve as a guide as to how the line should run directionally.
12. Pipes shall be located in planting areas, except when authorized by Owner's agent prior to installation.
13. Contractor is responsible for connection of new system to existing water system and uninterrupted irrigation to existing planting during construction.
14. Contractor is to verify available mainline pressure. In the event that pressure is inadequate, report to Owner or landscape architect prior to commencing any construction.
15. Contractor is responsible for electrical hookup of controllers.
16. All mainline under paving to be installed in pvc schedule 40 sleeves, two (2) times larger than pipe size. Sleeves to be run prior to placement of paving. No hydraulic jacking under paved areas. Where sleeving is not possible, pvc schedule 80 piping may be installed, upon authorization by Owner's agent and prior to commencing any construction.
17. All control wire under paving to be installed in pvc schedule 40 sleeves, size as required. Mainline - 2" and larger shall be pvc class 315, less than 2" shall be pvc schedule 40. All fittings shall be schedule 80. Prime and solvent weld all buts with fittings.
18. If specified valve size is unavailable, provide the next larger available size.
19. Contractor shall confirm full head to head coverage upon completion of irrigation system, and prior to planting, and shall report in writing that such a test has been made, using specified equipment. Written confirmation shall include remedies or recommendations, should head to head test show dry areas. Submit report to Owner's authorized agent.

EXISTING IRRIGATION SYSTEM NOTES:

1. Prior to beginning construction, the Contractor shall obtain a set of the record drawings from the owner, and verify site locations of all existing irrigation. The contractor shall immediately notify the landscape architect should the existing irrigation be in conflict with the proposed system.
2. Areas indicated on plans as 'EXISTING IRRIGATION TO REMAIN' may require adjustment and/or relocation to achieve adequate coverage.
3. Existing irrigation to remain shall be protected in place and operable. Existing systems shall not be shut down for more than 24 hours without approval from the Owner or Owner's representative.
4. All relocating and rerouting of pipe shall be governed by the same installation details and specification provided for the system by the manufacturer.
5. Existing irrigation and proposed relocation of existing irrigation is approximate. Contractor shall verify existing conditions in field prior to bidding and shall provide in their bid a unit price per head to relocate and adjust existing irrigation equipment.

IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| | Rain Bird XACZ-075-PRF 3/4" Low Flow Drip Control Kit, 3/4in. Low Flow Anti-Siphon Valve, 3/4in. pressure regulating RBY Filter, and 30psi pressure regulator, for above grade installation. 0.2 GPM-5 GPM | 2 | 2/202 |
| | Area to Receive Dripline Rain Bird XFS-06-12 XFS Sub-Surface Pressure Compensating Dripline w/Copper Shield Technology, 0.6 GPH emitters at 12" O.C. Laterals spaced at 12" apart, with emitters offset for triangular pattern. UV Resistant. Specify XF insert fittings. | 364.5 ft. | 1/202 |

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| BF | EXISTING 2" Reduced Pressure Backflow Preventer | 1 | |
| WM | Water Meter 2" City of Goleta | 1 | |
| | Irrigation Lateral Line: PVC Schedule 40 3/4" | 85.3 Lf. | 4/202 |
| | Irrigation Mainline: PVC Schedule 40 | 245.9 Lf. | 4/202 |
| | Pipe Sleeve: PVC Class 200 SDR 21 | 49.4 Lf. | 4/202 |

Project information:
1. Date: DECEMBER 20, 2024
2. Project applicant: JEFFREY MILLER ARCHITECTURE AND DESIGN
3. Project address (if available, otherwise include APN and/or lot number(s)): 500 N FAIRVIEW AVE
4. Total landscape area in square feet: 3,308 SF
5. Project type: PUBLIC
6. Water supply type (e.g., potable, recycled, well, etc.) and identify the local retail water purveyor if the applicant is not served by a private well: POTABLE, GOLETA WATER DISTRICT

"I agree to comply with the requirements of the City's Water Efficient Landscaping requirements and submit a complete Landscape Documentation Package."

SIGNED: J Reed DATED: DECEMBER 26, 2024

WATER EFFICIENT LANDSCAPING WORKSHEET

This worksheet is filled out by the project applicant and is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (ETo) 46.1

| Hydrozone # / Planting Description* | Plant Factor (PF) | Irrigation Method* | Irrigation Efficiency (IE)* | ETAF (PF/IE) | Landscape Area (sq. ft.) | ETAF x Area | Estimated Total Water Use (ETWU)* |
|---|---|---|---|---|---|---|---|
| **Regular Landscape Areas** | | | | | | | |
| HYDROZONE 1 | 0.3 | DRIP | 0.81 | 0.37 | 1669 | 617.53 | 1,577.85 |
| HYDROZONE 2 | 0.3 | DRIP | 0.81 | 0.37 | 221 | 81.77 | 2,430.54 |
| HYDROZONE 3 | 0.3 | DRIP | 0.81 | 0.37 | 143 | 52.91 | 2,430.19 |
| HYDROZONE 4 | 0.3 | SPRAY | 0.72 | 0.4 | 1,075 | 430 | 12,443.44 |
| | | | | Totals | 3,308 | 982.28 | 27,206.01 |
| **Special Landscape Areas** | | | | | | | |
| | | | | 1 | | | |
| | | | | 1 | | | |
| | | | | 1 | | | |
| | | | | Totals | | | |
| | | | | | | ETWU Total | 27,206.01 |
| | | | | | | Maximum Allowed Water Allowance (MAWA)* | 28,973.13 |

*Hydrozone & Planting Description: E.g. 1) Bed Lawn 2) low water use planting 3) medium water use planting

*Irrigation Method: overhead spray or drip

*Irrigation Efficiency: 0.75 for spray head 0.81 for drip

*ETWU (Annual Gallons Required): ETo x 0.62 x ETAF x Area, where 0.62 is a conversion factor that converts acre inches per acre per year to gallons per square foot per year

*MAWA (Annual Gallons Allowed) = (ETo)(0.62)[(ETAF x LA) + ((1-ETAF) x SLA)] Where 0.62 is a conversion factor that converts acre inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .71 for residential areas and 0.45 for non-residential areas.

ETAF Calculations

Regular Landscape Areas

| | | |
|---|---|---|
| Total ETAF x Area | (B) | 612.28 |
| Total Area | (A) | 2,986 |
| Average ETAF | B ÷ A | 0.366 |

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas

| | | |
|---|---|---|
| Total ETAF x Area | (B+D) | 612.28 |
| Total Area | (A+C) | 3,308 |
| Sitewide ETAF | (B+D) ÷ (A+C) | 0.366 |

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Manhattan Beach, CA 90266
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www.JMADstudio.com

Consultant: kpff

Consultant: UPLA STUDIO

Consultant: INTERFACE ENGINEERING

Consultant: JENSEN HUGHES

| No. | Description: | Date: |
|---|---|---|
| | ISSUED FOR PERMIT | 20 MAR 2025 |

Irrigation Plan

Project No:

Sheet No: L.2.01

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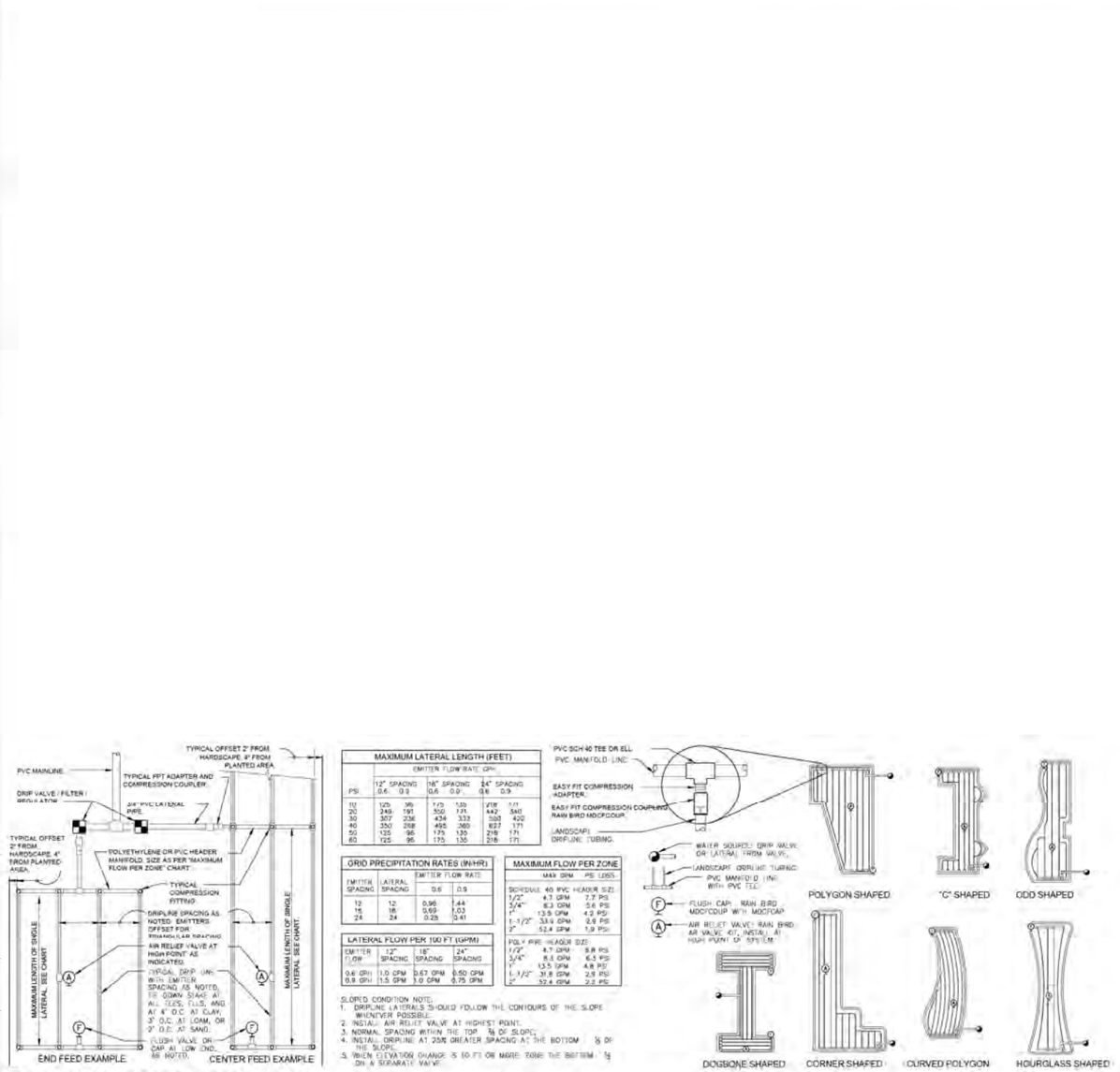
INTERFACE ENGINEERING

JENSEN HUGHES


| No. | Description | Date |
|---|---|---|
| | ISSUED FOR PERMIT | 20 MAR 2025 |




| MAXIMUM LATERAL LENGTH (FEET) | | | | | | |
|---|---|---|---|---|---|---|
| | EMITTER FLOW RATE GPH | | | | | |
| | 12" SPACING | | 18" SPACING | | 24" SPACING | |
| PSI | 0.6 | 0.9 | 0.6 | 0.9 | 0.6 | 0.9 |
| 10 | 125 | 95 | 170 | 130 | 210 | 170 |
| 20 | 248 | 191 | 350 | 271 | 442 | 340 |
| 30 | 307 | 236 | 434 | 333 | 550 | 420 |
| 40 | 350 | 268 | 495 | 380 | 627 | 171 |
| 50 | 125 | 95 | 175 | 135 | 218 | 171 |
| 60 | 125 | 95 | 175 | 135 | 218 | 171 |

| GRID PRECIPITATION RATES (IN/HR) | | | |
|---|---|---|---|
| EMITTER SPACING | LATERAL SPACING | EMITTER FLOW RATE | |
| | | 0.6 | 0.9 |
| 12 | 12 | 0.96 | 1.44 |
| 18 | 18 | 0.69 | 1.03 |
| 24 | 24 | 0.28 | 0.41 |

| LATERAL FLOW PER 100 FT (GPM) | | | |
|---|---|---|---|
| EMITTER FLOW | 12" SPACING | 18" SPACING | 24" SPACING |
| 0.6 GPH | 1.0 GPM | 0.67 GPM | 0.50 GPM |
| 0.9 GPH | 1.5 GPM | 1.0 GPM | 0.75 GPM |

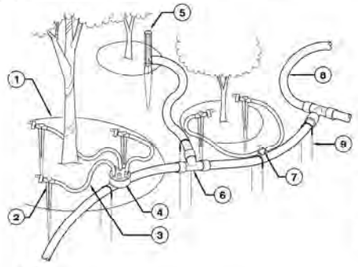
| MAXIMUM FLOW PER ZONE | | |
|---|---|---|
| | MAX GPM | PSI LOSS |
| SCHEDULE 40 PVC HEADER SIZE | | |
| 1/2" | 4.7 GPM | 7.7 PSI |
| 3/4" | 8.3 GPM | 5.6 PSI |
| 1" | 13.5 GPM | 4.2 PSI |
| 1-1/2" | 31.8 GPM | 2.9 PSI |
| 2" | 52.4 GPM | 1.9 PSI |
| POLY PIPE HEADER SIZE | | |
| 1/2" | 4.7 GPM | 8.8 PSI |
| 3/4" | 8.3 GPM | 6.5 PSI |
| 1" | 13.5 GPM | 4.8 PSI |
| 1-1/2" | 31.8 GPM | 2.9 PSI |
| 2" | 52.4 GPM | 2.2 PSI |

SLOPED CONDITION NOTES:
1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
3. NORMAL SPACING WITHIN THE TOP ⅔ OF SLOPE.
4. INSTALL DRIPLINE AT 2/3RD GREATER SPACING AT THE BOTTOM ⅓ OF THE SLOPE.
5. WHEN ELEVATION CHANGE IS 10 FT OR MORE ZONE THE BOTTOM ⅓ ON A SEPARATE VALVE.




## 5 TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS

N.T.S.

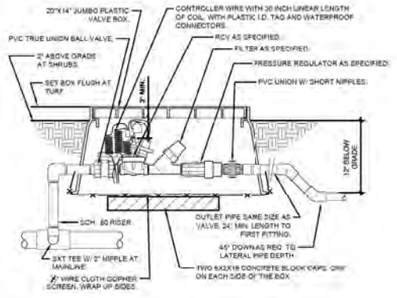



1. PLANT GRAPHIC DRIPLINE EDGE.
2. TYPICAL 1/4" TUBE STAKE WITH EMITTER OR CAP.
3. TYPICAL 1/4" DISTRIBUTION TUBING. 48" MAX. LENGTH.
4. MULTIOUTLET EMITTER OR TRANSFER.
5. EMITTER OR BUBBLER ON 1/2" DRIP STAKE.
6. TYPICAL COMPRESSION FITTING.
7. TRANSFER BARB TEE FOR DOUBLE EMITTER.
8. TYPICAL 1/2" DRIP TUBING.
9. TYPICAL 1/2" DRIP TUBING STAKE.

NOTES:
1. PLACE EMITTERS 3/4 BETWEEN THE TRUNK AND OUTER DRIPLINE.
2. EVENLY SPACE EMITTERS AROUND PLANT.
3. STAKE THE DRIP TUBING AT EACH TEE, ELL, COUPLER, AT EACH EMITTER OR TRANSFER, AND AT 5'-0" MAX O.C.

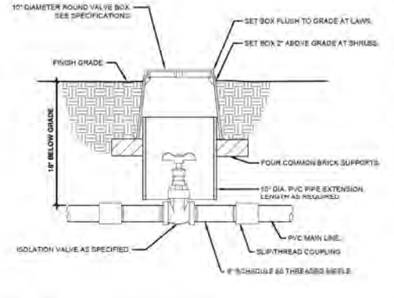
## 1 TYPICAL DRIP TUBING

1 1/2" = 1'-0"



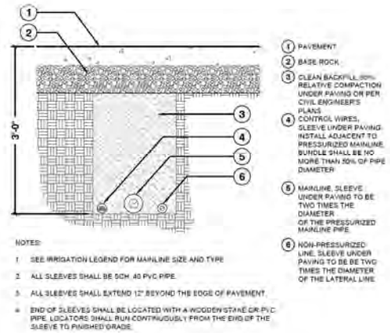

## 2 1" DRIP VALVE/FILTER/REGULATOR

1 1/2" = 1'-0"




## 3 BRASS ISOLATION VALVE

1 1/2" = 1'-0"




1. PAVEMENT.
2. BASE ROCK.
3. CLEAN BACKFILL 90% RELATIVE COMPACTION UNDER PAVING OR PER CIVIL ENGINEER'S PLANS.
4. CONTROL WIRES. SLEEVE UNDER PAVING. INSTALL ADJACENT TO PRESSURIZED MAINLINE. SLEEVE SHALL BE NO MORE THAN 50% OF PIPE DIAMETER.
5. MAINLINE SLEEVE UNDER PAVING TO BE TWO TIMES THE DIAMETER OF THE PRESSURIZED MAINLINE PIPE.
6. NON-PRESSURIZED LINE. SLEEVE UNDER PAVING TO BE BE TWO TIMES THE DIAMETER OF THE LATERAL LINE.

NOTES:
1. SEE IRRIGATION LEGEND FOR MAINLINE SIZE AND TYPE.
2. ALL SLEEVES SHALL BE SCH. 40 PVC PIPE.
3. ALL SLEEVES SHALL EXTEND 12" BEYOND THE EDGE OF PAVEMENT.
4. END OF SLEEVES SHALL BE LOCATED WITH A WOODEN STAKE OR PVC PIPE LOCATORS SHALL RUN CONTINUOUSLY FROM THE END OF THE SLEEVE TO FINISHED GRADE.

## 4 PIPE BENEATH PAVEMENT

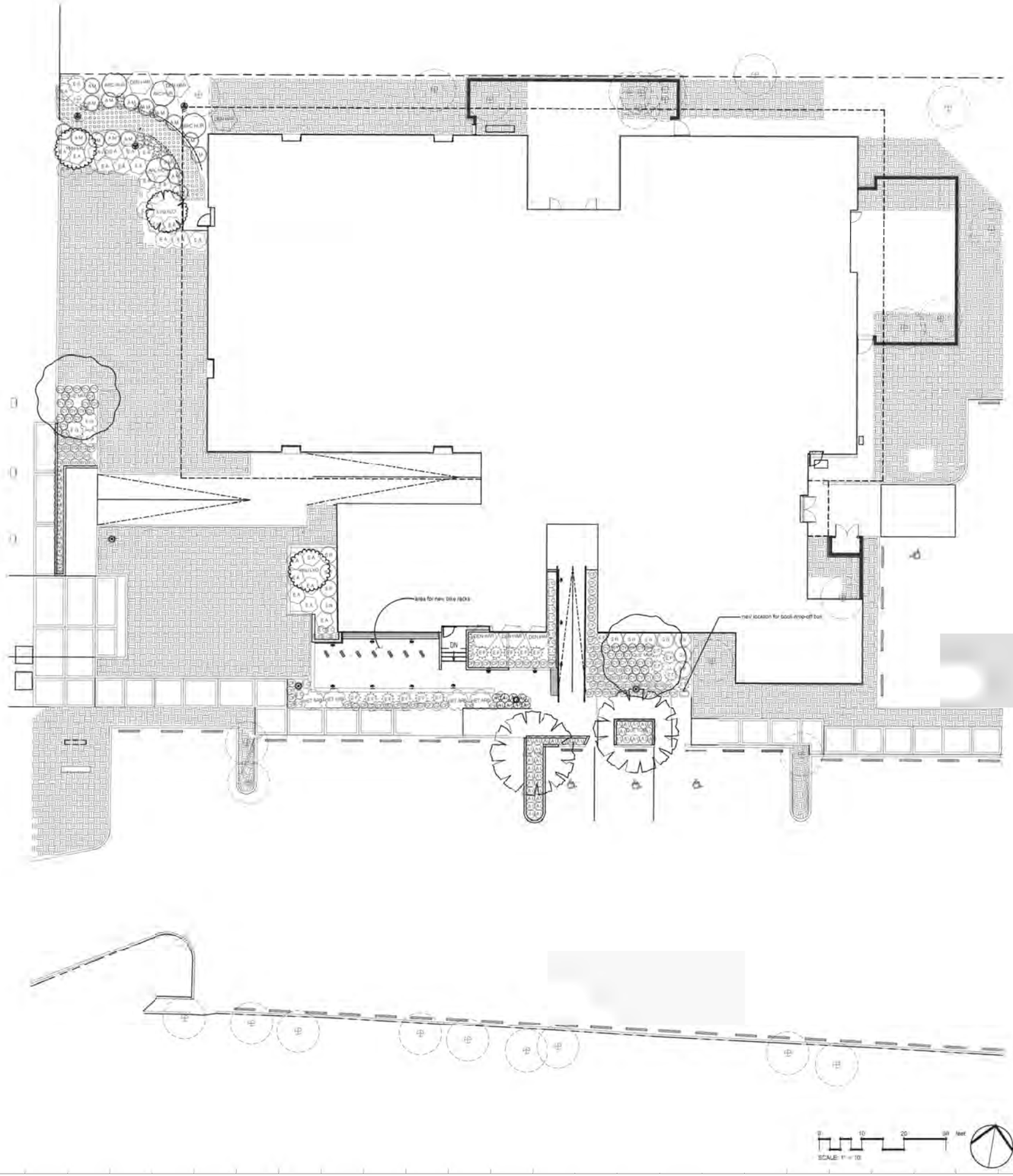
1" = 1'-0"

Irrigation Details

Project No.

Sheet No.

L.202




## LIGHTING SCHEDULE

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| | SPJ Lighting Recessed Wall Light<br>SPJ-LDG-31WF | 12 | |
| | Targets Cheobo Bollard Light<br>CBS-41-40-264-L3-27-BZ-MG<br>WITH LUS2650RZ Base and LUS2650 Jbox | 1 | |
| | Landscape Forms Motive Area Light<br>AJ500 - LB-60F - 27K - UV1 - P2 - NTW - BRZ<br>With Pole AJ550-10-01-BRZ | 3 | |
| | SPJ Directional Light<br>SPJ-AL1-8W-MBR-8W-27K-12-15V-WAF<br>With mounting canopy SPJ 19-01 | 3 | |

Notes on light fixtures
Final color of light fixtures to be decided after DD approval by City of Goleta
All fixtures mentioned above are High Voltage fixtures, except for the SPJ Directional Light, those 3 lights are low voltage.
Location of transformer, controls and connections will need to be coordinated with the Electrical Plans

## 32 EXTERIOR IMPROVEMENTS SCHEDULE

| SYMBOL | DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| Site Furnishings | | | |
| | Bike Rack: Colombia Cascade Coolempo | 1 | |

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Lighting and Furnishing Plan

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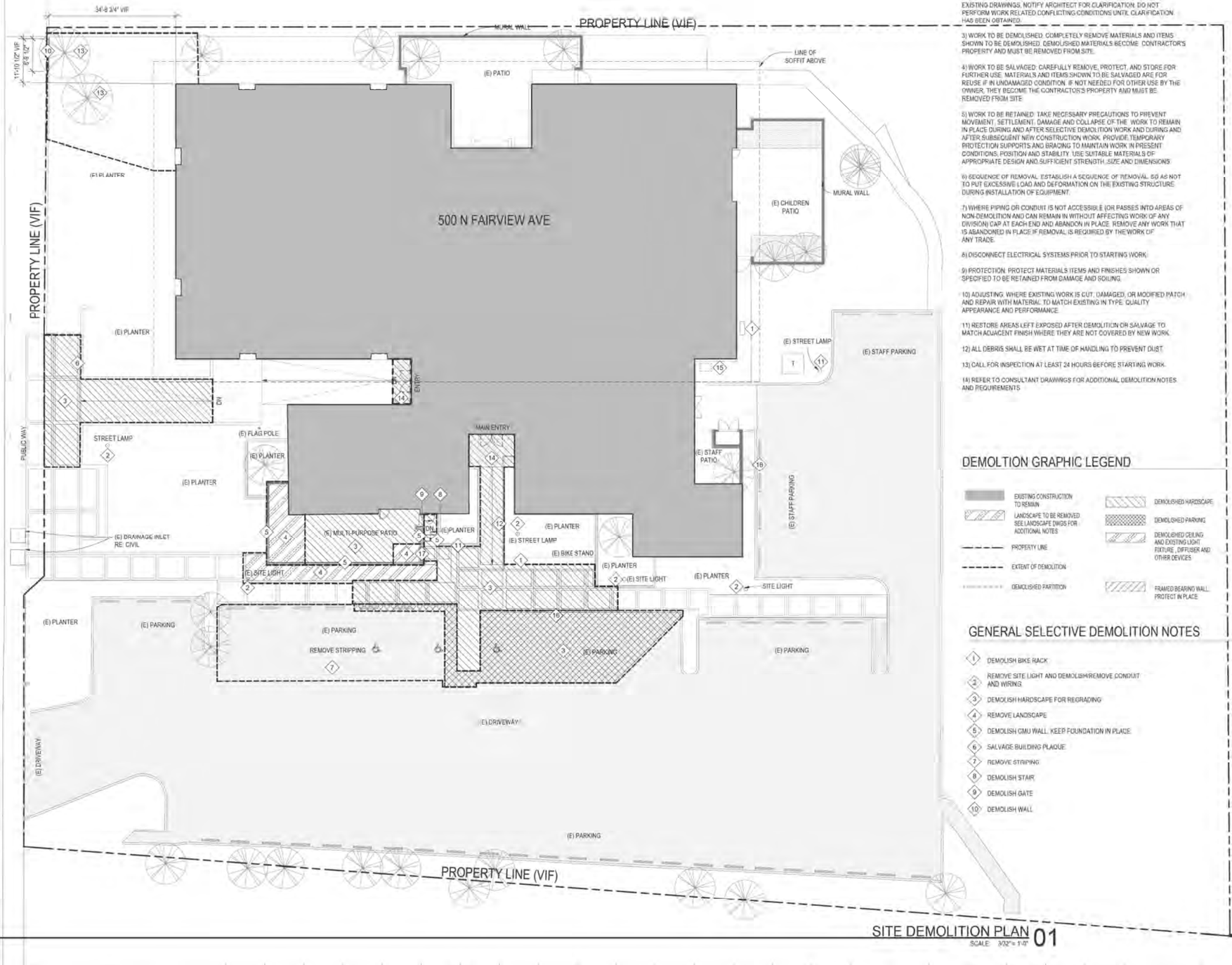


SITE DEMOLITION PLAN 01
SCALE: 3/32"= 1'-0"

## GENERAL DEMOLTION NOTES

1) INSPECTION: PRIOR TO THE START OF SELECTIVE DEMOLITION WORK, EXAMINE WORK TO BE REMOVED AND WORK TO REMAIN TO DETERMINE NATURE OF WORK AND CONDITIONS UNDER WHICH SELECTIVE DEMOLITION WILL BE CONDUCTED. MAKE NECESSARY EXPLORATIONS AND NON DESTRUCTIVE PROBES TO DETERMINE EXTENT AND KIND OF PROTECTION REQUIRED.

2) VERIFY DIMENSIONS OF EXISTING IN FIELD. WHERE EXISTING CONDITIONS ARE FOUND TO BE IN CONFLICT WITH THE CONTRACT DOCUMENTS AND EXISTING DRAWINGS, NOTIFY ARCHITECT FOR CLARIFICATION. DO NOT PERFORM WORK RELATED CONFLICTING CONDITIONS UNTIL CLARIFICATION HAS BEEN OBTAINED.

3) WORK TO BE DEMOLISHED: COMPLETELY REMOVE MATERIALS AND ITEMS SHOWN TO BE DEMOLISHED. DEMOLISHED MATERIALS BECOME CONTRACTOR'S PROPERTY AND MUST BE REMOVED FROM SITE.

4) WORK TO BE SALVAGED: CAREFULLY REMOVE, PROTECT, AND STORE FOR FURTHER USE. MATERIALS AND ITEMS SHOWN TO BE SALVAGED ARE FOR REUSE IF IN UNDAMAGED CONDITION. IF NOT NEEDED FOR OTHER USE BY THE OWNER, THEY BECOME THE CONTRACTOR'S PROPERTY AND MUST BE REMOVED FROM SITE.

5) WORK TO BE RETAINED: TAKE NECESSARY PRECAUTIONS TO PREVENT MOVEMENT, SETTLEMENT, DAMAGE AND COLLAPSE OF THE WORK TO REMAIN IN PLACE DURING AND AFTER SELECTIVE DEMOLITION WORK AND DURING AND AFTER SUBSEQUENT NEW CONSTRUCTION WORK. PROVIDE TEMPORARY PROTECTION SUPPORTS AND BRACING TO MAINTAIN WORK IN PRESENT CONDITIONS, POSITION AND STABILITY. USE SUITABLE MATERIALS OF APPROPRIATE DESIGN AND SUFFICIENT STRENGTH, SIZE AND DIMENSIONS.

6) SEQUENCE OF REMOVAL: ESTABLISH A SEQUENCE OF REMOVAL SO AS NOT TO PUT EXCESSIVE LOAD AND DEFORMATION ON THE EXISTING STRUCTURE DURING INSTALLATION OF EQUIPMENT.

7) WHERE PIPING OR CONDUIT IS NOT ACCESSIBLE (OR PASSES INTO AREAS OF NON-DEMOLITION AND CAN REMAIN IN WITHOUT AFFECTING WORK OF ANY DIVISION) CAP AT EACH END AND ABANDON IN PLACE. REMOVE ANY WORK THAT IS ABANDONED IN PLACE IF REMOVAL IS REQUIRED BY THE WORK OF ANY TRADE.

8) DISCONNECT ELECTRICAL SYSTEMS PRIOR TO STARTING WORK.

9) PROTECTION: PROTECT MATERIALS ITEMS AND FINISHES SHOWN OR SPECIFIED TO BE RETAINED FROM DAMAGE AND SOILING.

10) ADJUSTING: WHERE EXISTING WORK IS CUT, DAMAGED, OR MODIFIED PATCH AND REPAIR WITH MATERIAL TO MATCH EXISTING IN TYPE, QUALITY APPEARANCE AND PERFORMANCE.

11) RESTORE AREAS LEFT EXPOSED AFTER DEMOLITION OR SALVAGE TO MATCH ADJACENT FINISH WHERE THEY ARE NOT COVERED BY NEW WORK.

12) ALL DEBRIS SHALL BE WET AT TIME OF HANDLING TO PREVENT DUST.

13) CALL FOR INSPECTION AT LEAST 24 HOURS BEFORE STARTING WORK.

14) REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION NOTES AND REQUIREMENTS.

## DEMOLTION GRAPHIC LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- LANDSCAPE TO BE REMOVED SEE LANDSCAPE DWGS FOR ADDITIONAL NOTES
- PROPERTY LINE
- EXTENT OF DEMOLITION
- DEMOLISHED PARTITION
- DEMOLISHED HARDSCAPE
- DEMOLISHED PARKING
- DEMOLISHED CEILING AND EXISTING LIGHT FIXTURE , DIFFUSER AND OTHER DEVICES
- FRAMED BEARING WALL PROTECT IN PLACE

## GENERAL SELECTIVE DEMOLITION NOTES

1. DEMOLISH BIKE RACK
2. REMOVE SITE LIGHT AND DEMOLISH/REMOVE CONDUIT AND WIRING
3. DEMOLISH HARDSCAPE FOR REGRADING
4. REMOVE LANDSCAPE
5. DEMOLISH CMU WALL, KEEP FOUNDATION IN PLACE
6. SALVAGE BUILDING PLAQUE
7. REMOVE STRIPING
8. DEMOLISH STAIR
9. DEMOLISH GATE
10. DEMOLISH WALL
11. PROTECT IN PLA
12. DEMOLISH HAND
13. RETAIN LANDSCA
14. REMOVE FINISH SUBSTRUCTURE TO REMAIN
15. REMOVE FULL PANEL OF CONCRETE FOR (N) ELEC PULL BOX,SEE ELEC. OVERCUTTING SURFACE FINISHED SHALL NOT BE ACCEPTED
16. PROTECT DRAINAGE CULVERT IN PLACE. REMOVE ASPHALT AS REQUIRED FOR FREE FLOWING DRAINAGE. SEE CIVIL DRAWINGS FOR ADDITIONAL DETAILS.
17. DEMOLISH CMU WALL ALONG WITH FOUNDATION

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SITE DEMOLITION PLAN

Project No.: 24.07
Drawn By: Author
Checked By: Checker
Scale: As indicated

Sheet No.: D100

## GENERAL SELECTIVE DEMOLITION NOTES

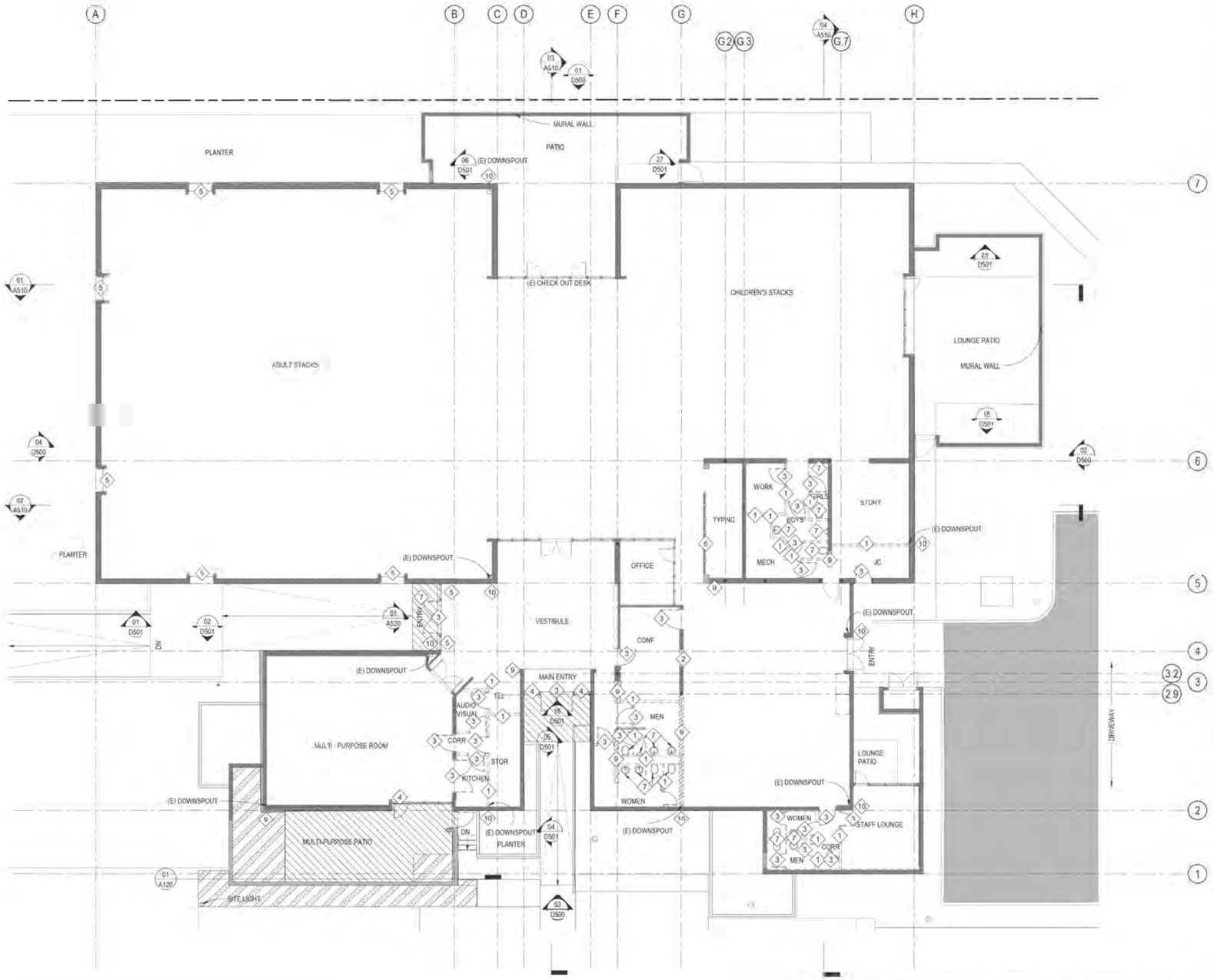
1. DEMOLISH EXISTING INTERIOR PARTITION
2. DEMOLISH PART OF EXISTING WALL TO ACCOMODATE NE OPENING
3. DEMOLISH DOOR AND DOOR FRAME
4. REMOVE DOOR PANEL
5. DEMOLISH WINDOW AND FRAME
6. DEMOLISH STOREFRONT
7. DEMOLISH EXISTING PLUMBING FIXTURES
8. DEMOLISH EXISITING SLAB
9. DEMOLISH STRUCTURAL WALL. PRIOR TO REMOVING WALL ERECT SHORING TO SUPPORT SPANNING MEMBERS. REFER TO STRUCTURAL DRAWINGS AND 02 41 00 "SELECTIVE DEMOLITION" FOR ADDINTIONAL INFORMATION AND REQUIREMENTS FOR SHORING
10. EXISTING DRAINLINE REMAINS

## DEMOLTION GRAPHIC LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- LANDSCAPE TO BE REMOVED SEE LANDSCAPE DWGS FOR ADDITIONAL NOTES
- PROPERTY LINE
- EXTENT OF DEMOLITION
- DEMOLISHED PARTITION
- DEMOLISHED HARDSCAPE
- DEMOLISHED PARKING
- DEMOLISHED CEILING AND EXISTING LIGHT FIXTURE, DIFFUSER AND OTHER DEVICES
- FRAMED BEARING WALL, PROTECT IN PLACE

## SHEET NOTES

1. REFER TO D100 FOR TYPICAL DEMOLITION NOTES AND SITE DEMOLITION NOTES
2. REFER TO STRUCTURAL SET WHEN DEMOLISHING LOAD BEARING WALL.




DEMOLITION PLAN - FIRST FLOOR LEVEL 01
SCALE: 1/8" = 1'-0"

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Civil: UPLAND PLACE

Landscape: INTERFACE ENGINEERING

Landscape: JENSEN HUGHES

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Revit Sheet: 1

Seal & Signature: LICENSED ARCHITECT — STATE OF CALIFORNIA

Sheet Name: DEMOLITION PLAN

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: As indicated

Sheet No.: D200

## DEMOLTION GRAPHIC LEGEND

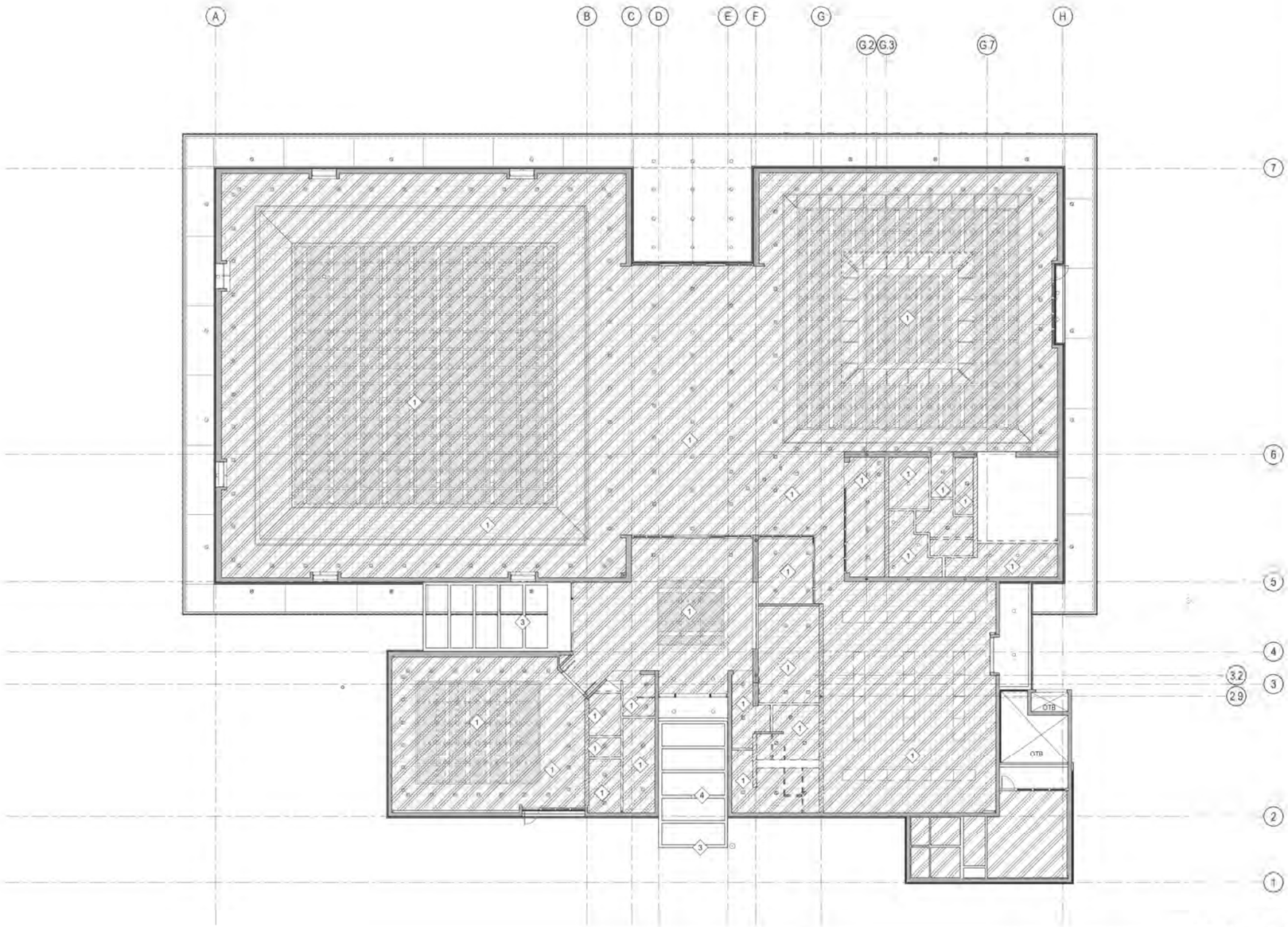
- EXISTING CONSTRUCTION TO REMAIN
- LANDSCAPE TO BE REMOVED SEE LANDSCAPE DWGS FOR ADDITIONAL NOTES
- PROPERTY LINE
- EXTENT OF DEMOLITION
- DEMOLISHED PARTITION
- DEMOLISHED HARDSCAPE
- DEMOLISHED PARKING
- DEMOLISHED CEILING AND EXISTING LIGHT FIXTURE, DIFFUSER AND OTHER DEVICES
- FRAMED BEARING WALL, PROTECT IN PLACE

## GENERAL SELECTIVE DEMOLITION NOTES

1. DEMOLISH CEILING & ASSOCIATED LIGHT FIXTURES, DIFFUSERS AND OTHER DEVICES
2. WORK TO BE RETAINED PROTECT IN PLACE
3. DEMOLISH TRELLIS
4. DEMOLISH LIGHTING AND ELECTRICAL COMPONENTS IN CEILING

## SHEET NOTES

1. REFER TO D100 FOR TYPICAL DEMOLITION NOTES




DEMO RCP
SCALE: 1/8" = 1'-0" 01

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LICENSED ARCHITECT JEFFREY MICHAEL MARTIN C-36366 STATE OF CALIFORNIA

DEMOLITION REFLECTED CEILING PLAN

D400

## SHEET NOTES

1) REFER TO G100 FOR TYPICAL NOTES

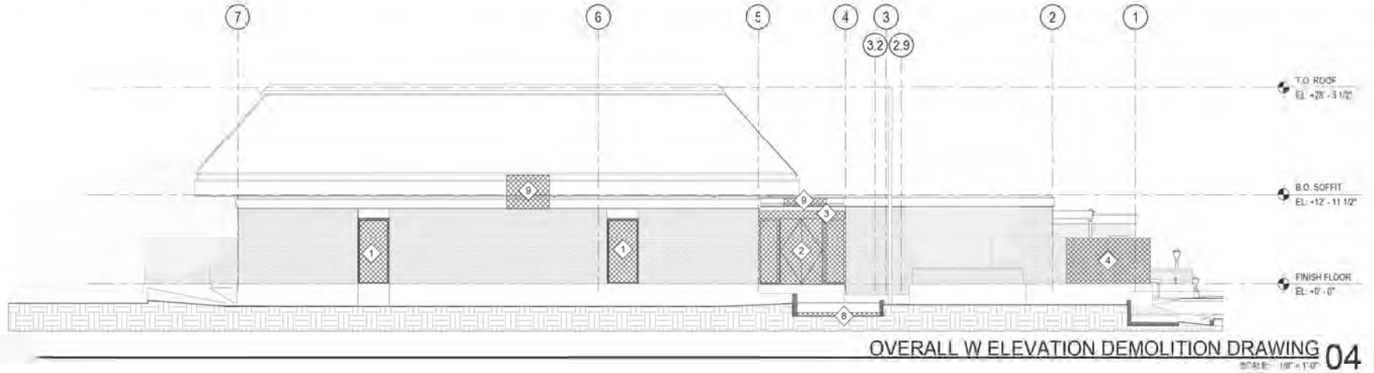
## ELEVATION DEMOLITION GRAPHIC LEGEND

EXTENT OF DEMO. V/F

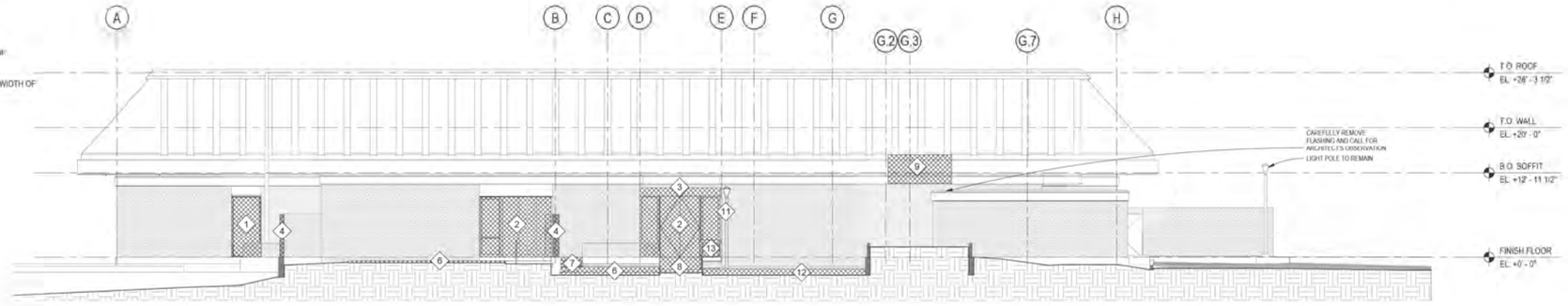
CLEAN GUTTER

## GENERAL SELECTIVE DEMOLITION NOTES

1. DEMOLISH WINDOW AND FRAME
2. DEMOLISH STOREFRONT
3. DEMOLISH TRELLIS
4. DEMOLISH CMU WALL, KEEP FOUNDATION IN PLACE
5. DEMOLISH CMU WALL ALONG WITH FOUNDATION
6. DEMOLISH HARDSCAPE
7. DEMOLISH STAIR
8. DEMOLISH RAMP
9. OBSERVED WATER DAMAGE VERIFY EXTENT OF REPLACEMENT IN FIELD
10. REMOVE PREVIOUSLY PATCHED FASCIA FULL WIDTH OF BOARD
11. SITE LIGHT TO BE REMOVED
12. DEMOLISH BIKE RACK
13. HANDRAIL TO BE REMOVED




OVERALL W ELEVATION DEMOLITION DRAWING 04
SCALE: 1/8" = 1'-0"

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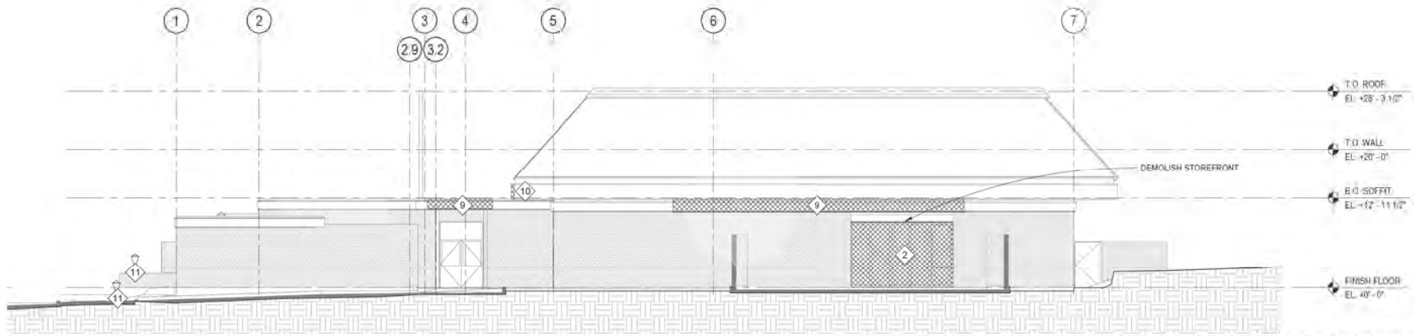


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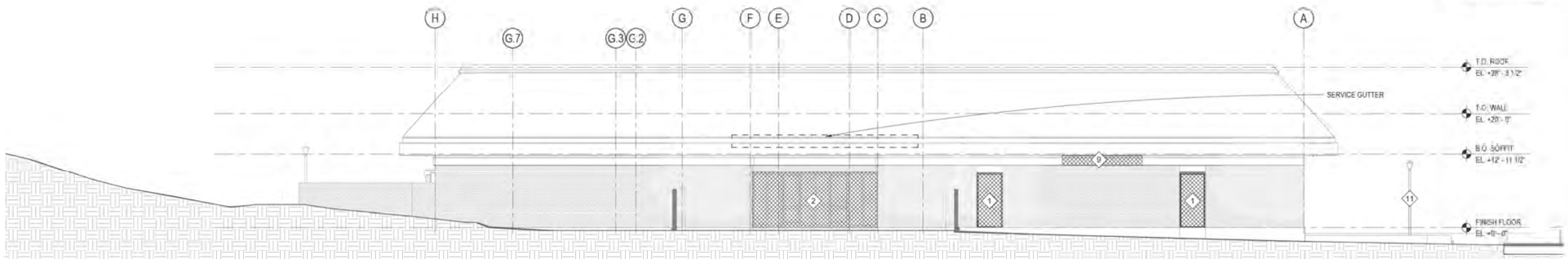


OVERALL N ELEVATION DEMOLITION DRAWING 01
SCALE: 1/8" = 1'-0"

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OVERALL BUILDING ELEVATION DEMOLITION DRAWINGS

Project No.: 24.05
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## SHEET NOTES

1) REFER TO D100 FOR TYPICAL NOTES

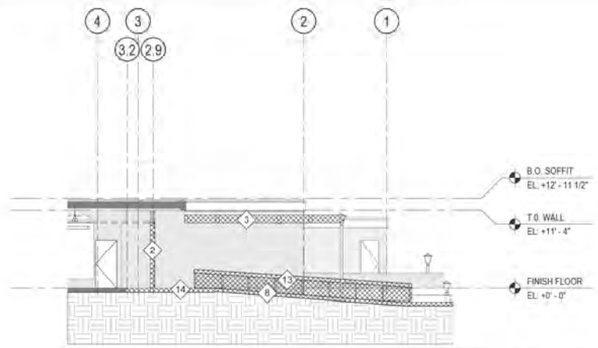
## ELEVATION DEMOLITION GRAPHIC LEGEND

EXTENT OF DEMO, VIF

CLEAN GUTTER

## GENERAL SELECTIVE DEMOLITION NOTES

1. DEMOLISH WINDOW AND FRAME
2. DEMOLISH STOREFRONT
3. DEMOLISH TRELLIS
4. DEMOLISH CMU WALL, KEEP FOUNDATION IN PLACE
5. DEMOLISH CMU WALL ALONG WITH FOUNDATION
6. DEMOLISH HARDSCAPE
7. DEMOLISH STAIR
8. DEMOLISH RAMP
9. OBSERVED WATER DAMAGE VERIFY EXTENT OF REPLACEMENT IN FIELD
10. REMOVE PREVIOUSLY PATCHED FASCIA FULL WIDTH OF BOARD
11. SITE LIGHT TO BE REMOVED
12. DEMOLISH BIKE RACK
13. HANDRAIL TO BE REMOVED
14. DEMOLISH LANDING




S-E ENTRY ELEVATION DEMOLITION DRAWING 05
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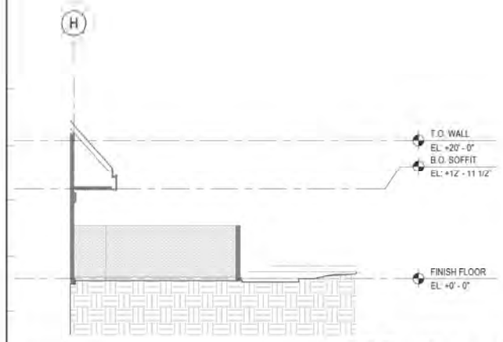
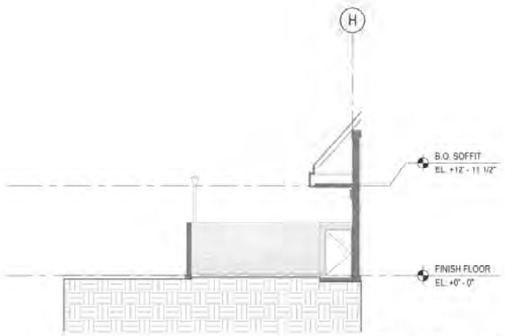



P-2 Elevation 28
SCALE: 1/8" = 1'-0"




P-1Elevation 18
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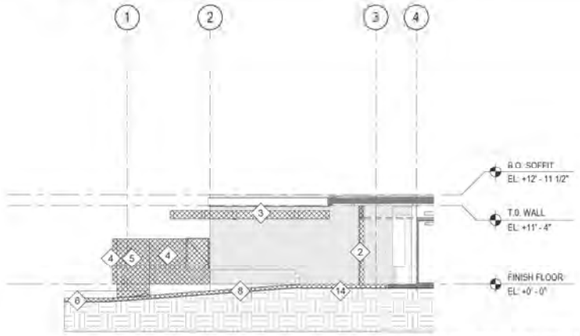


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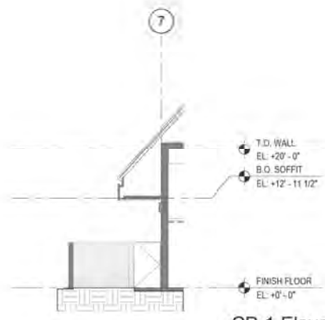


CP-1 Elevation 27
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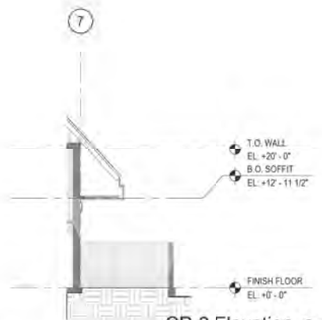


CP-2 Elevation 06
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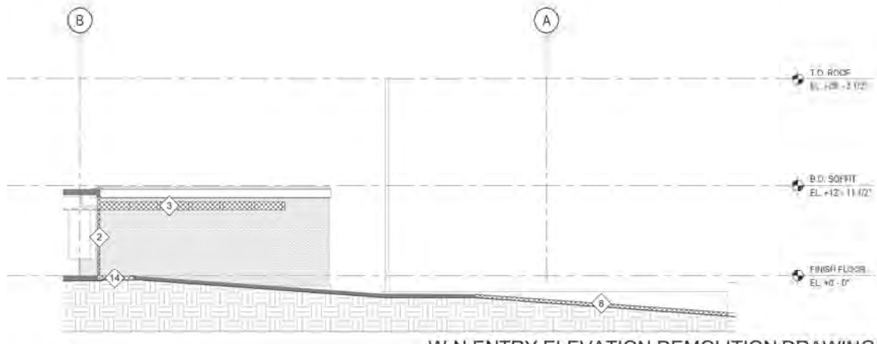


W-N ENTRY ELEVATION DEMOLITION DRAWING 02
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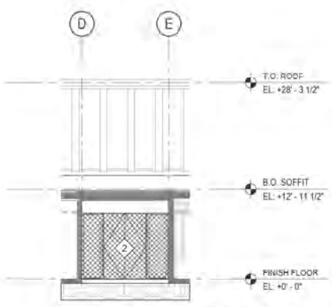


S-ENTRY DEMO ELEV 16
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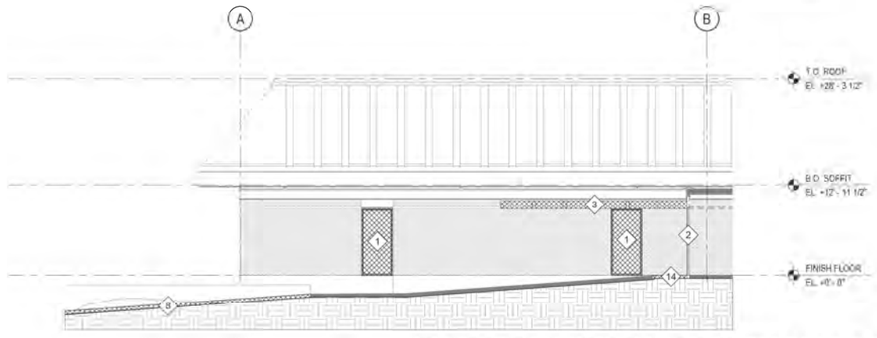


W-S ENTRY ELEVATION DEMOLITION DRAWING 01
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JEFFREY MICHAEL SIMMONS
No. 29256
STATE OF CALIFORNIA

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OVERALL BUILDING ELEVATION DEMOLITION DRAWINGS

Project No.: 24.05
Drawn By: Author
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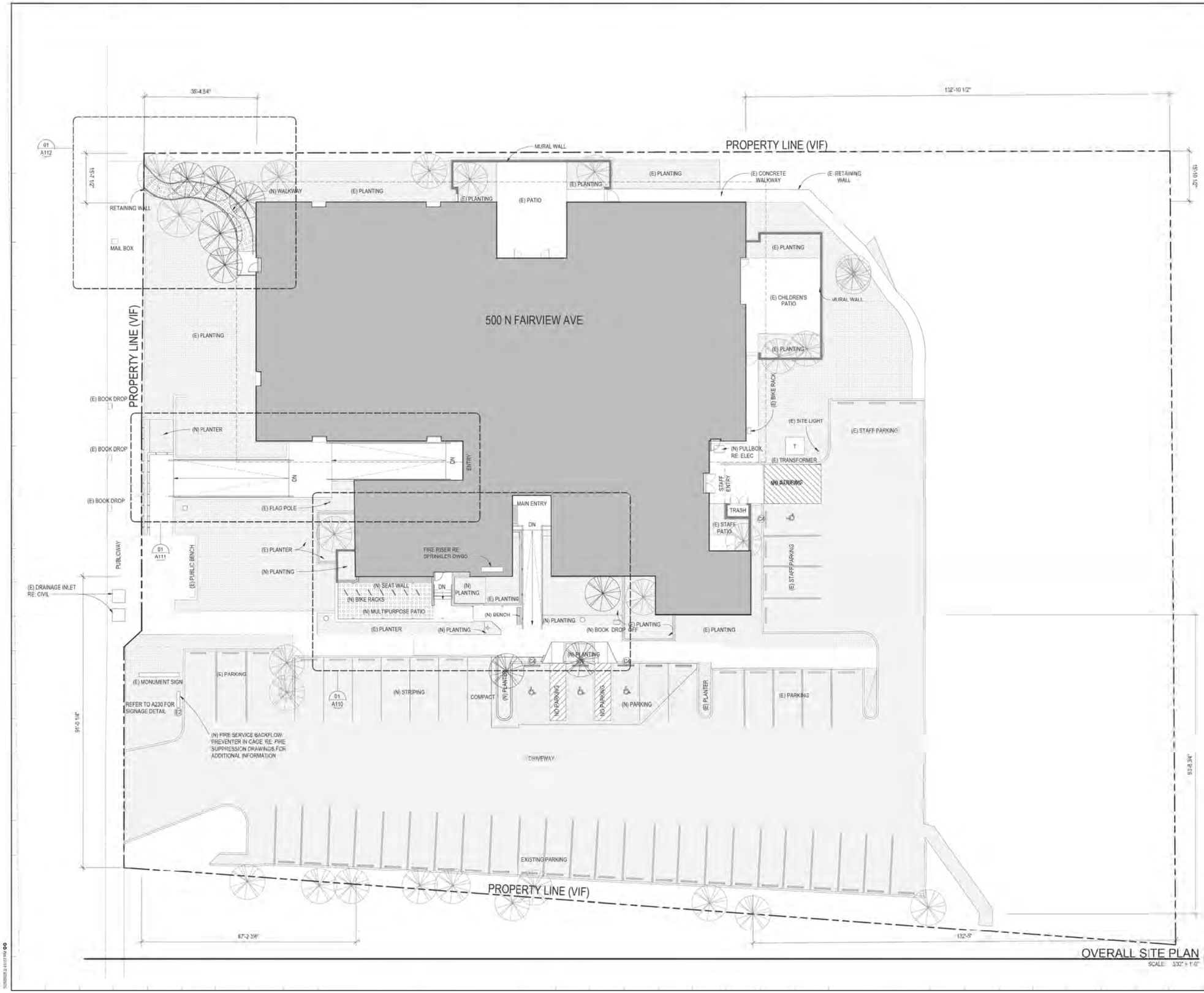
Scale: As indicated

Sheet No.: D501




OVERALL SITE PLAN 01
SCALE: 3/32" = 1'-0"

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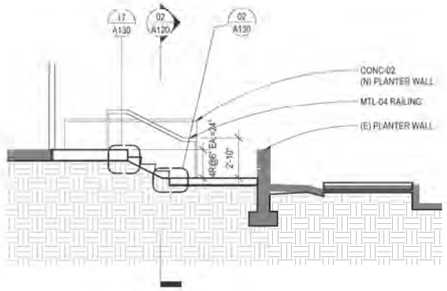
Sheet Name: OVERALL SITE PLAN

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 3/32" = 1'-0"

Sheet No.: A100




SITE SECTION @ MULTIPURPOSE PATIO 03
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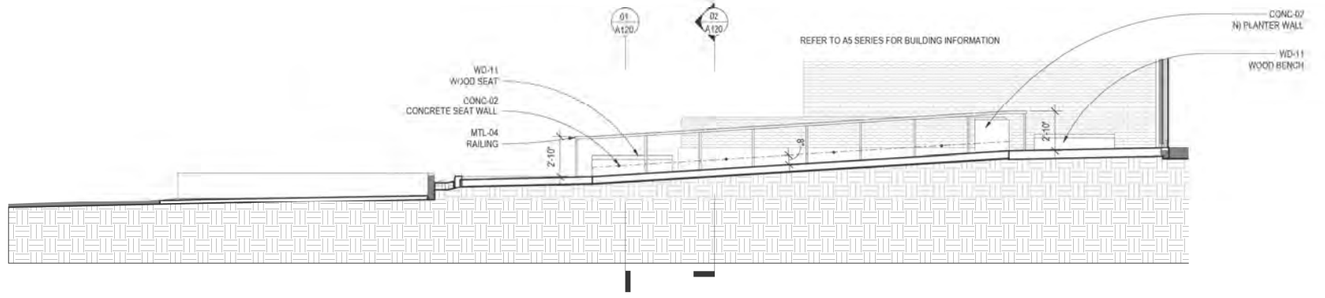


SITE SECTION @ PRIMARY ENTRY RAMP 02
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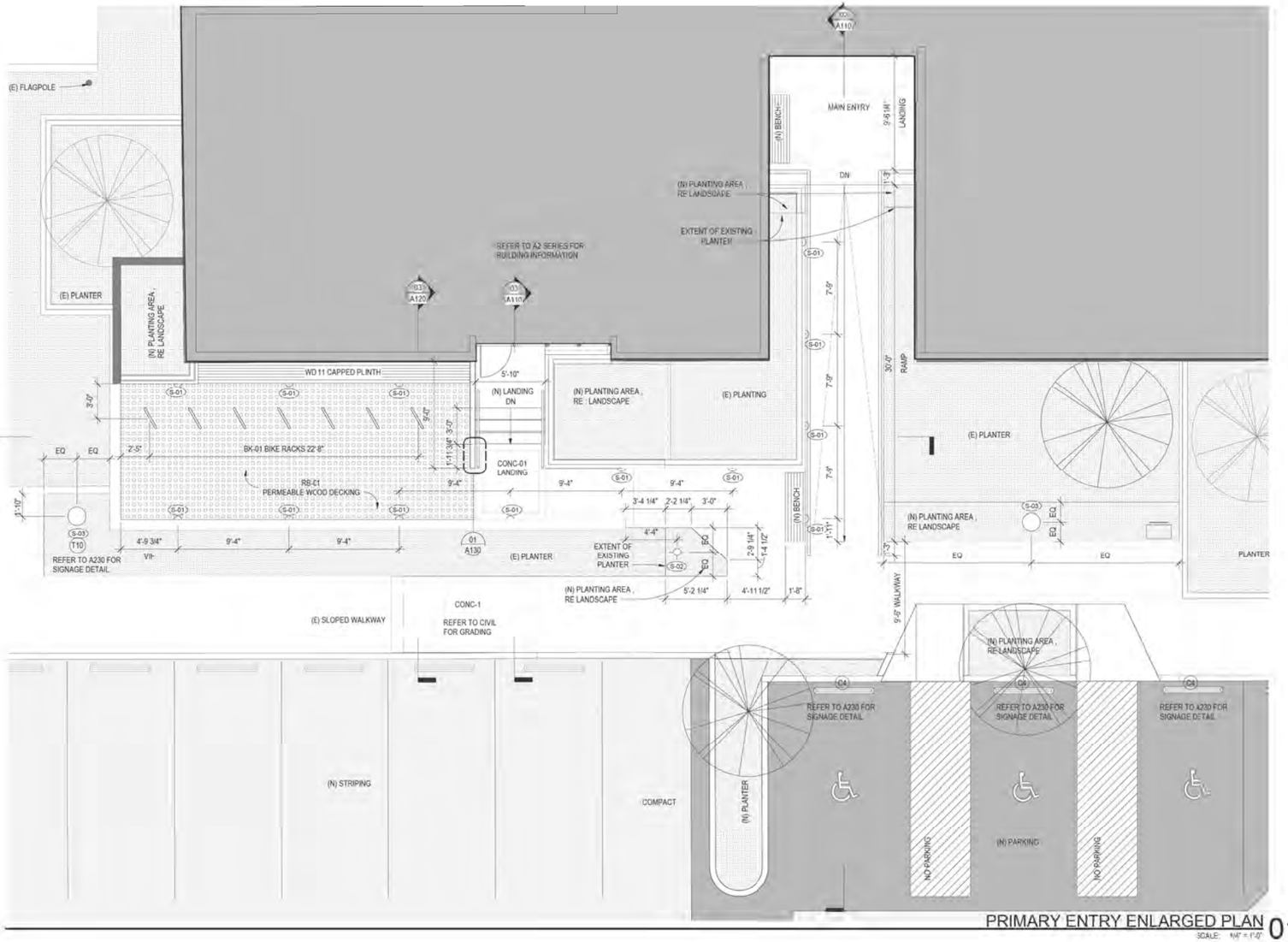


PRIMARY ENTRY ENLARGED PLAN 01
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Key Plan:

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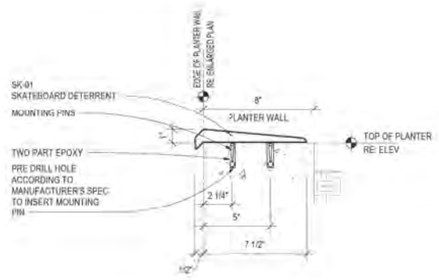
LICENSED ARCHITECT
JEFFREY MARSHALL
C-36356
STATE OF CALIFORNIA

Sheet Name:
ENLARGED SITE PLAN AT PRIMARY ENTRY

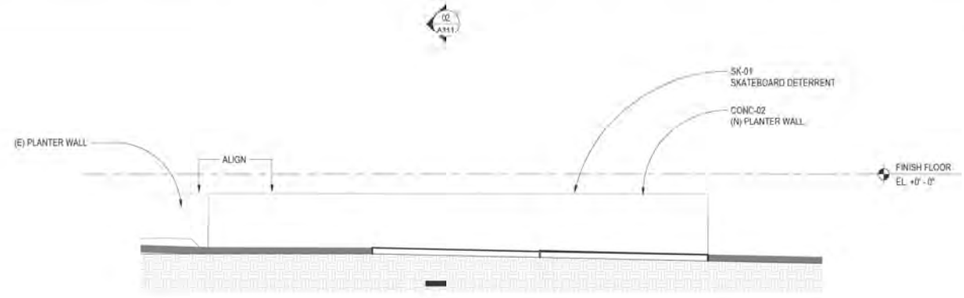
Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 1/4" = 1'-0"

Sheet No.:
A110

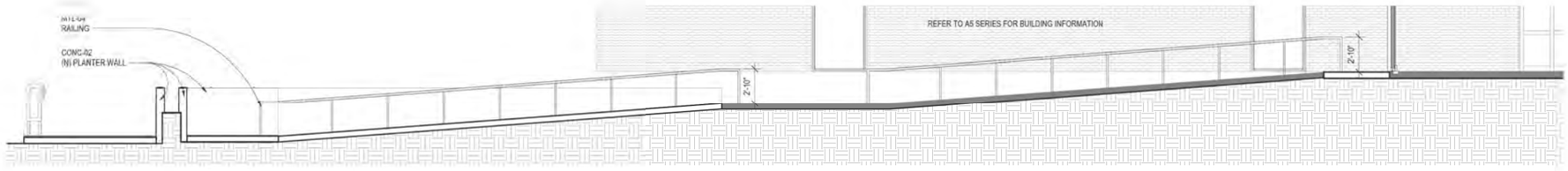



SKATEBOARD DETERRENT @ CONC PLANTER 05
SCALE: 3" = 1'-0"


SKATEBOARD DETERRENT PLAN 04
SCALE: 1/2" = 1'-0"




PARTIAL ELEVATION @ NEW PLANTER 03
SCALE: 1/4" = 1'-0"




SITE SECTION @ SECONDARY ENTRY 02
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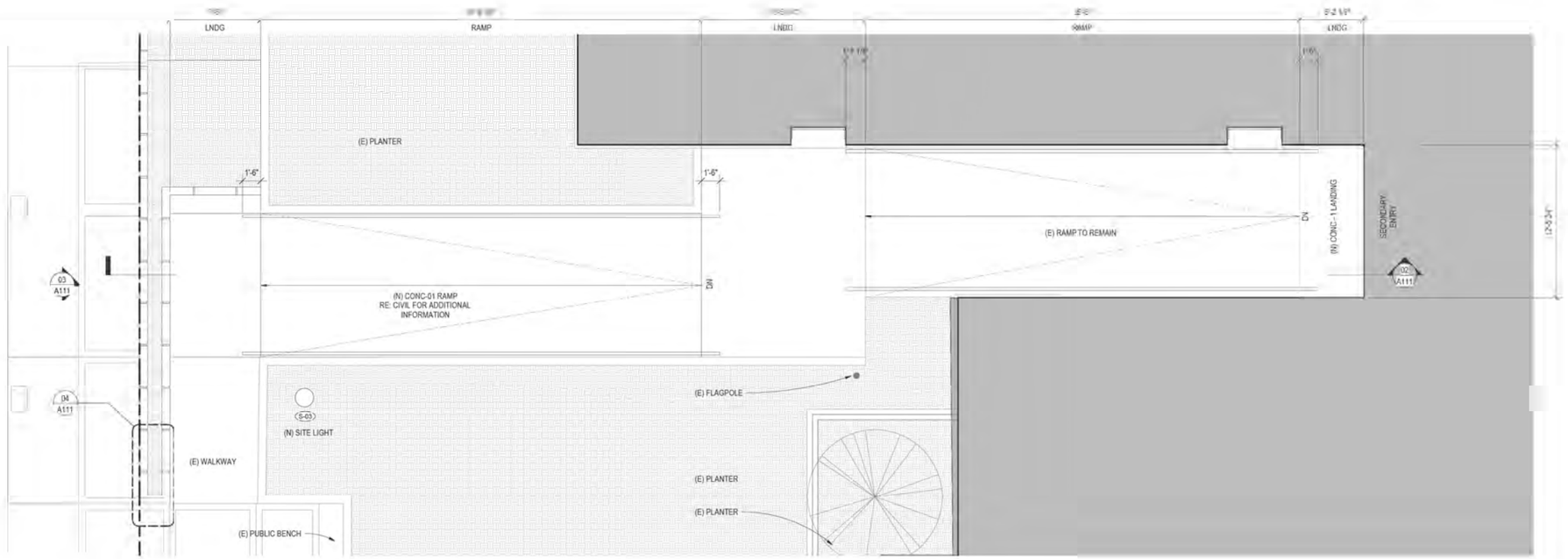


SECONDARY ENTRY ENLARGED PLAN 01
SCALE: 1/4" = 1'-0"

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Sheet Title:
ENLARGED SITE PLAN AT SECONDARY ENTRY

Project No.: 24-01
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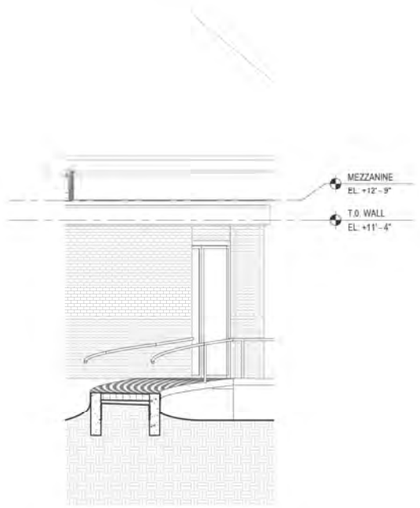
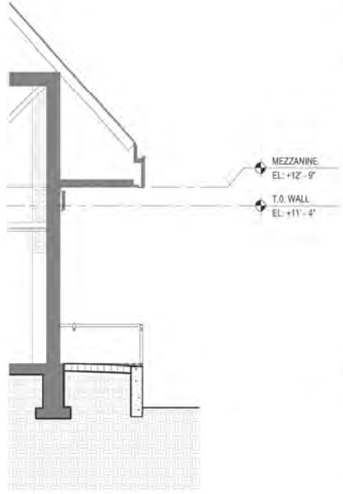



SECTION 24
SCALE 1/4" = 1'-0"

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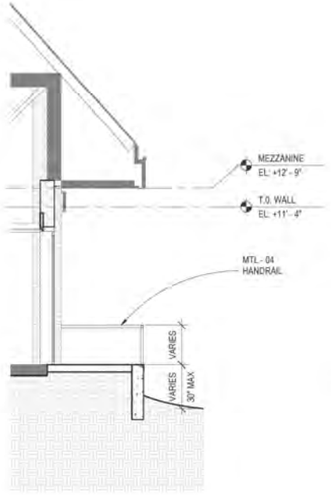


SECTION 14
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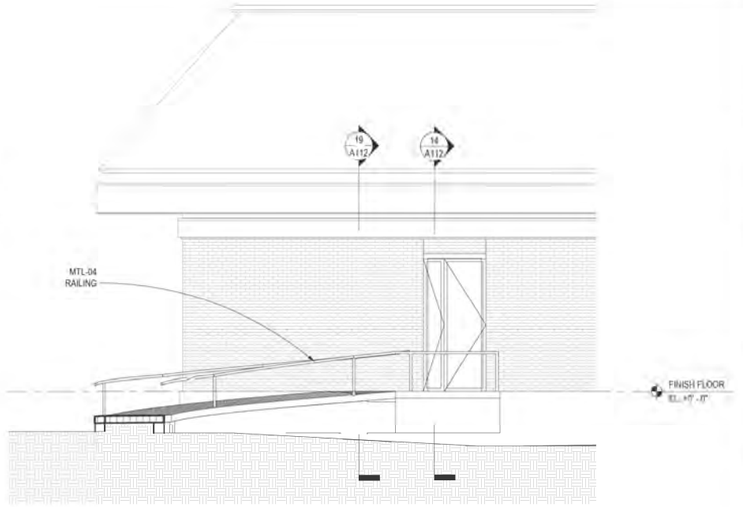



ELEVATION 02
SCALE 1/4" = 1'-0"

**Robi** Decking® Black Locust: End Grain Flow Pavers

**Key Details:**

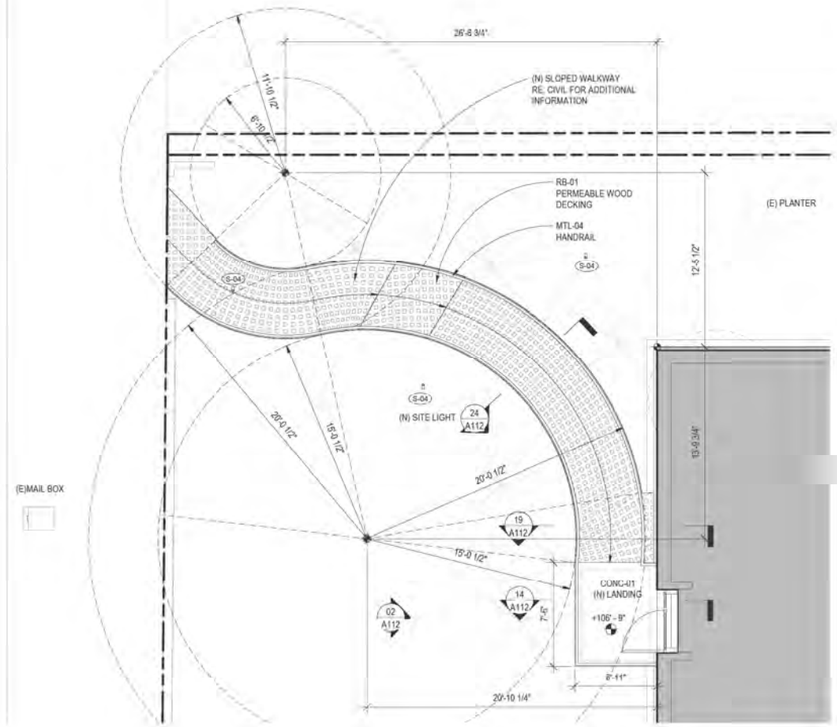
1. Black Locust, scientific name Robinia Pseudoacacia
2. Sizes stocked:
   - 9 block: 12" x 12" sheets with 9 blocks each 3.5" x 3.5" x 2.8" high

**Specifications:**

| | |
|---|---|
| Wood Common name | Black Locust |
| Wood Scientific name | Robinia Pseudoacacia |
| Color | Initial color is blonde to light red/light brown |
| Grain | Tight grain |
| Density @ 12% moisture | 4.0 to 4.5 pounds per board foot |
| Durability | Highest rating from USDA (Exceptionally high decay resistance) |
| Fire rating | Class A (ASTM E84-16 tested) |
| Hardness (Janka) | 1,700 |
| Resistance to decay and insect attack | Resistant to attack by decay fungi and termites. |
| Modulus of rupture | 19,400 lbf/in2 |
| Modulus of elasticity | 2,050,000 lbf/in2 |
| Maximum crushing strength | 10,200 lbf/in2 |
| Wood movement properties | Radial: 4.6%, Tangential: 7.2%, Volumetric: 10.2%, T/R Ratio: 1.6 |

sales@robidecking.com / 336.365.2850
See all of our products at robidecking.com

ADA COMPLIANT PERMEABLE WOOD DECKING
NTS 16




ENLARGED PLAN AT NEW EGRESS
SCALE 1/4" = 1'-0" 01

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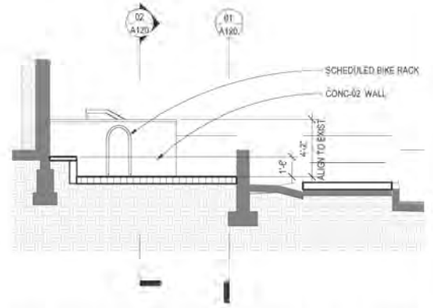


SITE SECTION @ MULTIPURPOSE PATIO 03
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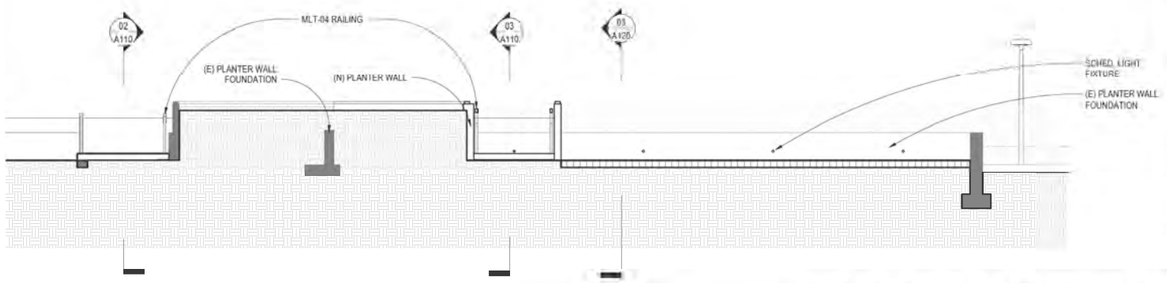


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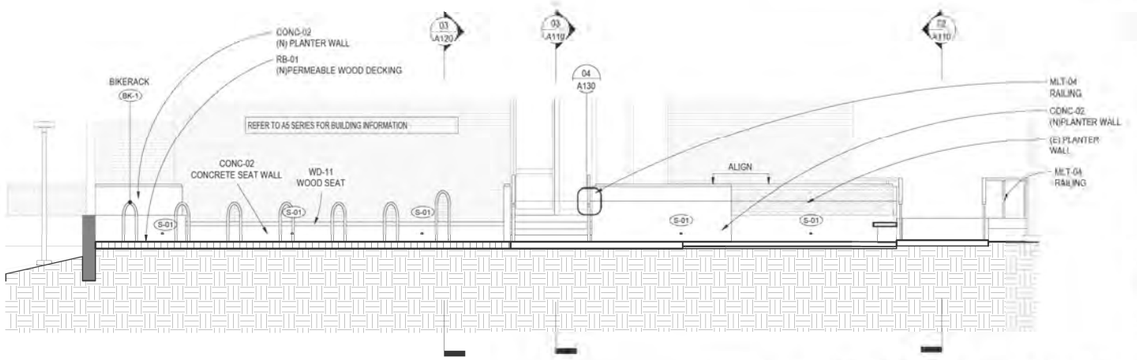


SITE SECTION @ MULTIPURPOSE PATIO 01
SCALE: 1/4" = 1'-0"

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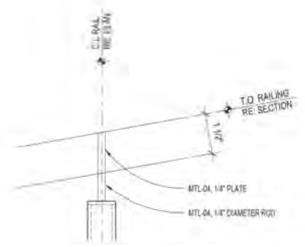
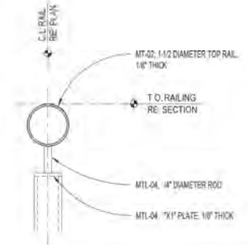
C-34058
STATE OF CALIFORNIA

Sheet Name:
SITE SECTIONS & ELEVATIONS

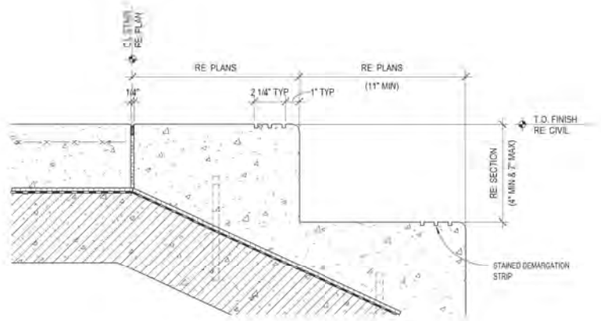
Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 1/4" = 1'-0"
Sheet No.: A120



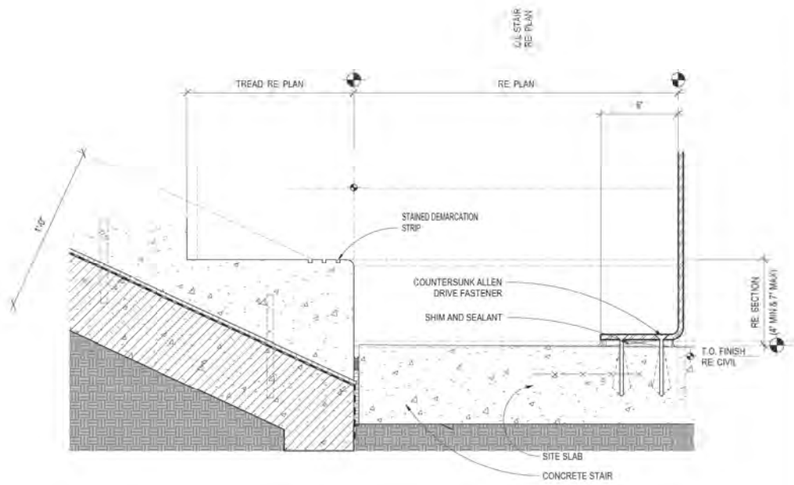

HANDRAIL DETAIL- ELEVATION 09
SCALE: 6" = 1'-0"



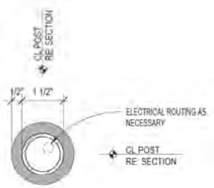

HANDRAIL DETAIL - TOP 04
SCALE: 6" = 1'-0"



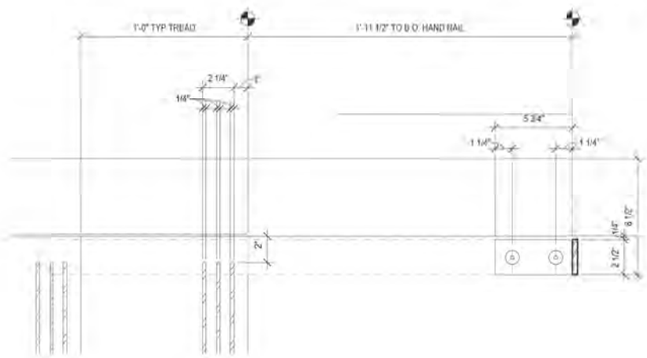

SECTION @ T.O. STAIR 17
SCALE: 3" = 1'-0"




SECTION @ B.O. STAIR 02
SCALE: 3" = 1'-0"




HANDRAIL DETAIL - PLAN 16
SCALE: 6" = 1'-0"




PLAN @ B.O. STAIR 01
SCALE: 3" = 1'-0"

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JENSEN HUGHES

SITE DETAILS

Project No. 24.01
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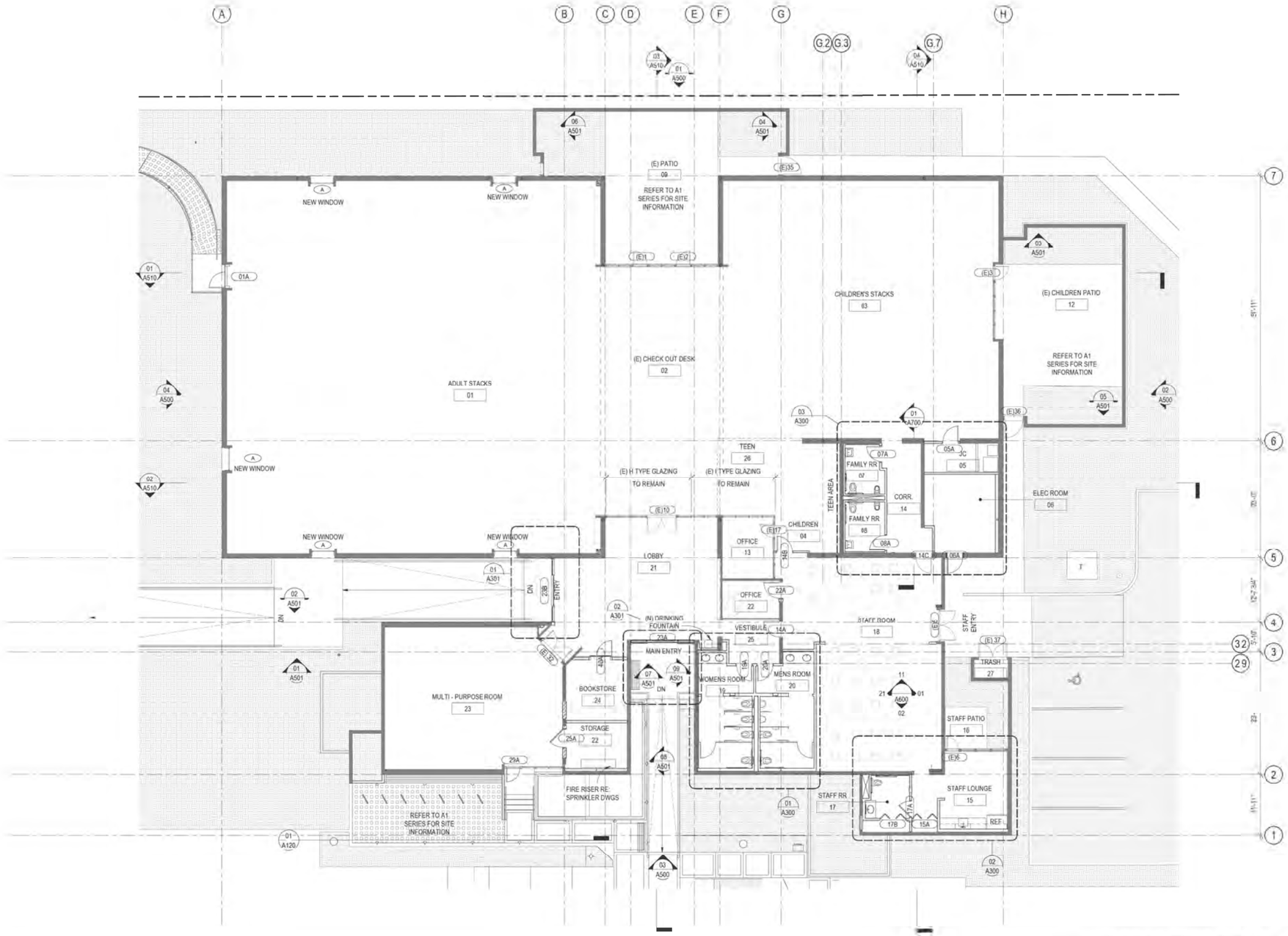
Scale: As shown

Sheet No. A130




OVERALL FIRST FLOOR PLAN 01
SCALE: 1/8" = 1'-0"

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No. C-29358
STATE OF CALIFORNIA

Sheet Name:
OVERALL FLOOR PLAN

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 1/8" = 1'-0"

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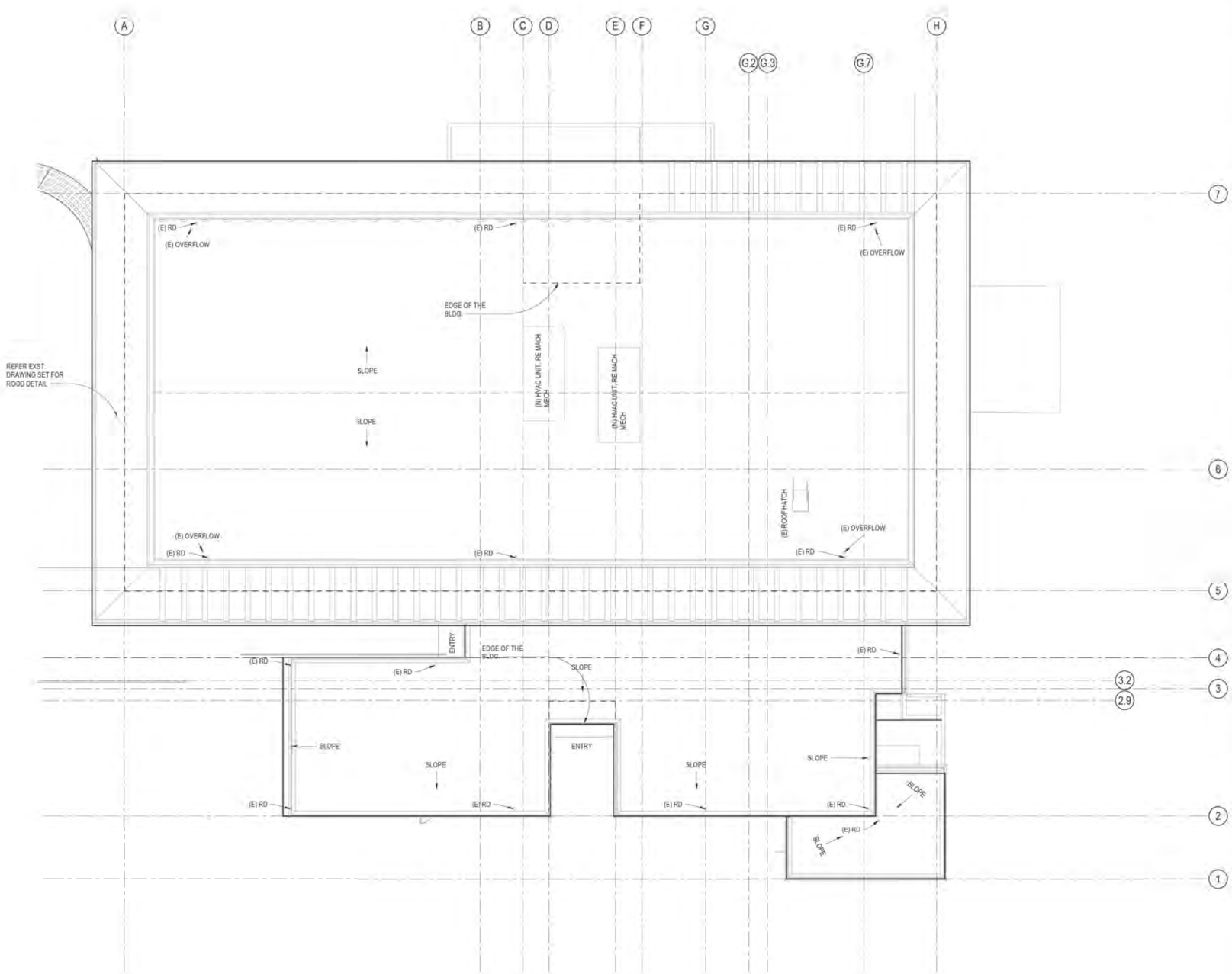


ROOF PLAN 01
SCALE 1/8" = 1'-0"

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ROOF PLAN

Project No. 24.01
Drawn By: MMM
Checked By: JMMADA
Scale: 1/8" = 1'-0"

A201

FINISH SCHEDULE

| NUMBER | ROOM | FLOOR FINISH | BASE FINISH | WALL FINISH | CEILING FINISH | COMMENTS |
|---|---|---|---|---|---|---|
| 01 | ADULT STACKS | EXISTING | EXISTING | | GWB,ACT | |
| 02 | (E) CHECK OUT DESK | EXISTING | EXISTING | | | |
| 03 | CHILDREN'S STACKS | EXISTING | EXISTING | | | |
| 04 | CHILDREN | CPT-01 | | TBD | GWB,ACT | |
| 05 | JC | CONC-01 | | TBD | | |
| 06 | ELEC ROOM | CONC-01 | | TBD | | |
| 07 | FAMILY RR | TL-05 | | TBD | GWB | |
| 08 | FAMILY RR | TL-05 | | TBD | GWB | |
| 14 | CORR | LVT-01 | | TBD | ACT | |
| 15 | STAFF LOUNGE | LVT-01 | | TBD | | |
| 16 | STAFF PATIO | EXISTING | | TBD | | |
| 17 | STAFF RR | TL-03 | | TBD | GWB | |
| 18 | STAFF ROOM | CPT-1 | | TBD | ACT | |
| 19 | WOMENS ROOM | TL-01 | | TBD | GWB | |
| 20 | MENS ROOM | TL-01 | | TBD | GWB | |
| 21 | LOBBY | EXISTING | | TBD | GWB,ACT | |
| 22 | STORAGE | CONC-01 | | TBD | | |
| 22 | OFFICE | CPT-01 | | TBD | ACT | |
| 23 | MULTI - PURPOSE ROOM | EXISTING | | TBD | | |
| 24 | BOOKSTORE | CPT-01 | | TBD | GWB,ACT | |
| 25 | VESTIBULE | CPT-01 | | TBD | ACT | |
| 26 | TEEN | CPT-01 | | TBD | ACT | |
| 27 | TRASH | EXISTING | | TBD | | |

## FINISH PLAN

- (E) FLOORING
- CONC-1
- CPT-1 CARPET
- FIX-1 EPOXY COATING
- T-01 RESTROOM TILE
- LVT-1 RUBBER FLOORING
- LVT-2 WEED BARRIER
- ST-1 PAINTED CONCRETE (AREA 'A' ONLY)

SHEET NOTES:

1) REFER TO A003 FOR MATERIALS SCHEDULE

2) REFER TO APPENDIX A IN VOLUME 03 OF PROJECT MANUAL FOR MATERIAL PALLETE BOARDS. SUBMIT FINAL SAMPLES TO ARCHITECT AND AGENCY BASED ON AGENCY PREFERRED FINISH BOARD FOR RECORD.

3) PAINT ALL WALLS FROM FLOOR TO ROOF DECK U.O.N., WITH SOUND BATTING AND ACOUSTICAL SEALANT WHERE NOTED.

4) PROVIDE AND INSTALL 48" HIGH CORNER GUARDS ON WALLS AND COLUMNS.

5) REFER TO A9 SERIES FOR BACKING AND BLOCKING DETAILS. PROVIDE FOR ALL WALL MOUNTED EQUIPMENT AS SCHEDULED INCLUDING CUBICLE PARTITIONS SECURED TO WALLS.

6) FLOORS SHALL BE LEVEL WITH NO MARE THAN 3/16" DEVIATION OVER 10' AND 1/16" OVER 1' U.O.N. LEVEL FLOORS AS REQUIRED TO MEET CRITERIA AND MANUFACTURER'S RECOMMENDED INSTALLATION REQUIREMENTS.

7) WHERE RUBBER BASE INTERFACES WITH SMOOTH FLOORS, PROVIDE COVED PROFILE. WHERE BASE INTERFACES WITH CARPET PROVIDE CUT PROFILE WITH NO TOE.

8) REFER TO A9 SERIES FOR ADDITIONAL DETAILING REQUIREMENTS.

9) LEVEL SLAB AT ROOM 100/110 TO FF/FL 50.


FINISH PLAN 01
SCALE: 1/8" = 1'-0"

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Sheet Name:
FINISH PLAN

Project No.: 24.05
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Sheet No.: A210

## POWER AND DATA LEGEND

- SINGLE RECEPTACLE OUTLET - WALL MOUNTED
- DUPLEX RECEPTACLE OUTLET - WALL MOUNTED
- DUPLEX RECEPTACLE OUTLET, ONE RECEPTACLE SWITCHED AND ONE RECEPTACLE CONSTANT
- QUADRAPLEX RECEPTACLE OUTLET - WALL MOUNTED
- SPECIAL RECEPTACLE OUTLET - WALL MOUNTED.
- FLUSH MOUNTED RACEWAY AT 36" U.N.O. SEE PLAN FOR OUTLET QUANTITY AND LOCATION. OUTLETS AT SINK AREAS TO BE GFCI.
- DC DOOR CONTACT
- W WALL PHONE
- FB SURFACE FLOOR BOX WITH DUPLEX RECEPTACLE AND 1 DATA JACKS
- FB2 SURFACE FLOOR BOX WITH QUADRAPLEX RECEPTACLE AND 2 DATA JACKS
- TV FLUSH FLOOR BOX WITH CABLE TV
- CAM CAMERA (+ - 270 DEGREE CAMERA*)
- NVR NETWORK VIDEO RECORDER
- VSS VSS WORKSTATION
- DB DURESS BUTTON
- M MOTION DETECTOR
- C P IDS CONTROL PANEL
- DATA JACK - REFER TO COMMUNICATION DRAWINGS FOR JACK SPECIFICATION

SYMBOL SUBSCRIPTS:

- D - DEDICATED CIRCUIT
- EM - EMERGENCY CIRCUIT
- EP - EXPLOSION PROOF
- GFCI - WITH GROUND FAULT CIRCUIT INTERRUPTER
- IG - ISOLATED GROUND
- FP - FINGER PRINTING DEVICE
- WP - WEATHERPROOF TYPE
- XXmm - MOUNTAING HEIGHT
- TS - TECHNICAL SECURITY

- CATV FLUSH TRIPLE-GANG BOX (+60" AFF) FOR DUPLEX POWER AND DATA AND COAX JACKS PER COMMUNICATION/AV CONSULTANT DRAWINGS
- J RECESSED JUNCTION BOX - WALL MOUNTED
- J FLUSH MOUNTED FLOOR ELECTRICAL JUNCTION BOX
- AV WALL MOUNTED AUDIO/VISUAL JUNCTION BOX. RE: A/V DRAWINGS
- PAM PERSONNEL AUTHENTICATION MODULE
- SS POE SURGE PROTECTOR

- FP J RECESSED ELECTRICAL JUNCTION BOX - WALL MOUNTED WITH WHIP CONNECTION TO FURNITURE ELECTRIFIED PANELS
- FP LV RECESSED LOW VOLTAGE JUNCTION BOX - WALL MOUNTED WITH WHIP CONNECTION TO FURNITURE ELECTRIFIED PANELS
- ES ELECTRICAL STRIKE
- KP IDS KEYPAD

FLUSH WALL MOUNTED LIGHTING CONTROLS:

- $ ON/OFF SWITCH
- ∅ DIMMING SWITCH
- IM INTERCOM MASTER
- COAX TERMINATION FOR SECURITY MONITOR

- IR WALL MOUNTED OUTLET FOR HEARING IMPAIRED TRANSMITTER. REFER TO T-SERIES DRAWINGS
- CALL BUTTON

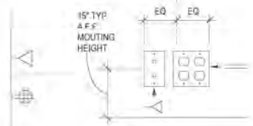
SYMBOL SUBSCRIPTS:

R - REGEPTION CALL BUTTON
N - NURSE CALL BUTTON

- LCD1 LCD AT WAITING AREA; REFER TO A/V DWGS
- LCD2 LCD ABOVE TELLER WINDOW; REFER TO A/V DWGS
- T THERMOSTAT
- M WALL MOUNTED DOOR MAGNETIC HOLD OPEN
- CR CARD READER
- LCD LCD MONITOR W/ DECODER
- KVM KEYBOARD, VIDEO AND MOUSE
- ACM ACCESS CONTROL PANEL

- ACW ACCESS CONTROL WORKSTATION
- PP POWER POLE - ABOVE CEILING JUNCTION BOXES FOR POWER AND DATA CONNECTION TO ELECTRIFIED FURNITURE PANELS
- UPS UNINTERRUPTED POWER SUPPLY
- DE DELAYED EGRESS

## OUTLET AND CLUSTER LEGEND





POWER AND DATA PLAN
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Consultants: kpff; UPM STUDIO; INTERFACE ENGINEERING; JENSEN HUGHES

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| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
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| | ISSUED FOR PERMIT | 26 MAR 2025 |

Sheet Title: POWER AND DATA PLAN

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: As shown

Sheet No.: A220

SIGN TYPE LEGEND

| TYPE | DESCRIPTION | MATERIAL | CFCI | GFCI |
|---|---|---|---|---|
| R1 | WOMEN'S ROOM | ACRYLIC | X | |
| R2 | WOMEN'S ROOM CIRCLE | ACRYLIC | X | |
| R3 | MEN'S ROOM | ACRYLIC | X | |
| R4 | MEN'S ROOM TRIANGLE | ACRYLIC | X | |
| R5 | GENDER NEUTRAL RESTROOM | ACRYLIC | X | |
| R6 | GENDER NEUTRAL TRIANGLE/CIRCLE | ACRYLIC | X | |
| T1 | BUILDING IDENTITY SIGNAGE | TBD | X | |
| T2 | ROOM ID SIGN | ACRYLIC | X | |
| T3 | ROOM ID W/IN USE | TBD | X | |
| T4 | BUSINESS HOURS | TBD | | X |
| T5 | NOT AN EXIT | TBD | X | |
| T6 | OFFICE ID W/ NAME | TBD | X | |
| T7 | CHECK-IN | TBD | X | |
| T9 | DIRECTIONS TO CHECK-IN | TBD | X | |
| T8 | CART STORAGE AREA | TBD | X | |
| T10 | YOU ARE ON CAMERA | TBD | X | |

SIGN TYPES LEGEND

| TYPE | DESCRIPTION | MATERIAL | CFCI | GFCI |
|---|---|---|---|---|
| C1 | MAX OCCUPANCY | ACRYLIC | X | |
| C2 | "DOOR TO REMAIN UNLOCKED" | VINYL CUTOUT | X | |
| C3 | NO SMOKING | ACRYLIC | X | |
| C4 | ACCESSIBLE PARKING | METAL | X | |
| C5 | FDC PRESSURE | ACRYLIC | X | |
| E1 | EXIT | ACRYLIC | X | |
| E2 | EXIT STAIR DOWN/UP | ACRYLIC | X | |
| E3 | EXIT ROUTE | ACRYLIC | X | |
| E4 | ACCESIBLE ROUTE | ACRYLIC | X | |
| E5 | EMPLOYEE ONLY | ACRYLIC | X | |
| E6 | ACCESIBLE SYMBOL | ACRYLIC | X | |
| E7 | ASSISTIVE LISTENING | VINYL CUTOUT | X | |
| E8 | EMERGENCY EXIT/ ALARM | ACRYLIC | X | |
| E9 | DO NOT BLOCK DOORS | ACRYLIC | X | |

GENERAL NOTES

1. SIGN MESSAGE SCHEDULE: TYPICAL LAYOUTS SHOWN IN DRAWING PACKAGE. ALL MESSAGES IN LAYOUTS ARE FOR SCALE INFORMATION ONLY. SUBMIT MESSAGE SCHEDULE FOR ARCHITECT AND AGENCY REVIEW PRIOR TO FABRICATION.

2. SIGN FABRICATOR IS SOLELY RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. FABRICATOR SHALL RECEIVE SIGNED APPROVAL BY ALL RELEVANT AUTHORITIES PRIOR TO FABRICATION.

3. APPLICABLE CODES AND STANDARDS: CODE REQUIREMENTS ARE TO COMPLY WITH CURRENT UTAH CODES NOTED ON COVER SHEET.

4. PROVIDE ALL WORK AND MATERIALS IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, LAWS AND STATUTES.

5. CODE COMPLIANCE: COLOR AND CONTRAST: ADAAG A4.30.5 FINISH AND CONTRAST.

6. ANY REQUEST FOR SUBSTITUTION OR PRESUMED "EQUAL" SHALL BE SUBMITTED IN WRITING FOR REVIEW IN COMPLIANCE WITH THE SPECIFICATION SECTION NUMBER AND SHALL NOT BE PURCHASED OR INSTALLED WITHOUT ARCHITECT'S APPROVAL.

7. ALL DESIGN DOCUMENTS ARE COMPLEMENTARY AND WHAT IS CALLED FOR BY ANY, WILL BE AS BINDING AS IF CALLED FOR BY ALL. ANY WORK SHOWN OR REFERRED TO ON ANY DESIGN DOCUMENTS SHALL BE PROVIDED AS THOUGH ON ALL RELATED DOCUMENTS.

8. THE DESIGN DOCUMENTS ARE PROVIDED TO ILLUSTRATE THE DESIGN AND GENERAL TYPE OF FABRICATION, MATERIAL AND WORKMANSHIP THROUGHOUT. THE DOCUMENTS DO NOT ILLUSTRATE EVERY CONDITION. THE CONTRACTOR AND/OR FABRICATOR, IN ASSUMING RESPONSIBILITY FOR WORK INDICATED, SHALL COMPLY WITH THE SPIRIT AS WELL AS THE LETTER IN WHICH THEY WERE WRITTEN.

9. THE FABRICATOR SHALL BE RESPONSIBLE FOR CORRECTION OF WORK AT THEIR OWN EXPENSE FOR WORK INSTALLED IN CONFLICT WITH THE DESIGN DOCUMENTS.

10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEVELOPMENT, COORDINATION AND EXECUTION OF CONSTRUCTION METHODS AND PROCEDURES INCLUDING COORDINATION WITH OTHER DISCIPLINES SUCH AS ELECTRICAL AND STRUCTURAL WHERE REQUIRED.

11. FABRICATOR / CONTRACTOR SHALL NOT SCALE DRAWINGS. ALL DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF WORK.


SIGNAGE PLAN 01
SCALE: 1/8" = 1'-0"

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Revised Date:

Date & Signature:

LICENSED ARCHITECT JEFFREY KLEIN C-30998 STATE OF CALIFORNIA

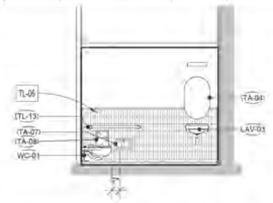
Sheet Name:
SIGNAGE PLAN

Project No.: 24.01
Drawn By: AM/NV
Checked By: JM/MW
Scale: 1/8" = 1'-0"

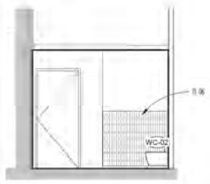
Sheet No.:
A230

GENERAL NOTES:

1. THE HEIGHT DIMENSIONS FOR WATER CLOSET AND ASSOCIATED COMPONENTS SHOWN ON CHILDREN RESTROOM INTERIOR ELEVATIONS ARE FOR ADULT'S USE.
2. REFERENCE SECTION 11B-604.9.1 THROUGH SECTION 11B-604.9.7 FOR ADDITIONAL REQUIREMENTS.




FAMILY RESTROOM 07 - WEST ELV 08
SCALE: 1/4" = 1'-0"

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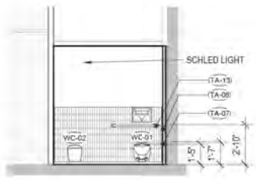


FAMILY RESTROOM 07 -SOUTH ELV 13
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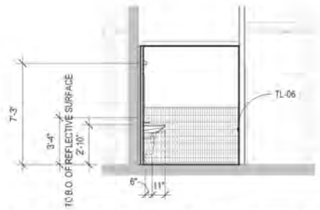


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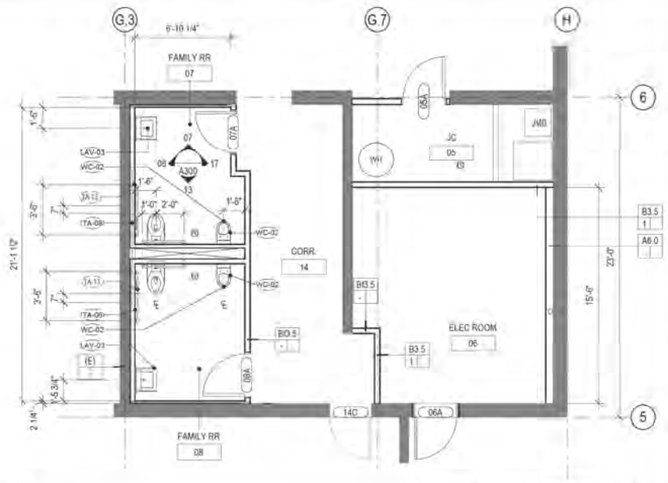


FAMILY RESTROOM 03
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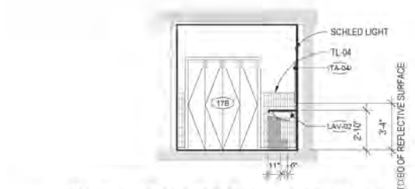
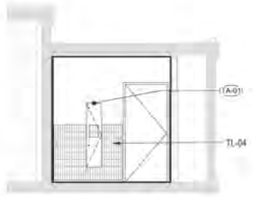



STAFF RESTROOM 08 - SOUTH ELV 16
SCALE: 1/4" = 1'-0"

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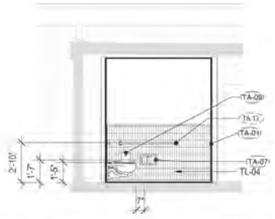


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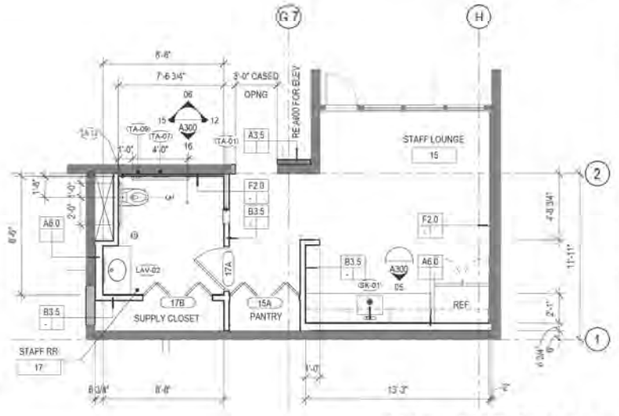


STAFF RESTROOM 02
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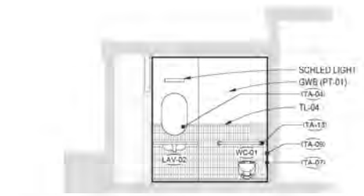


STAFF RESTROOM 08 - WEST ELV 15
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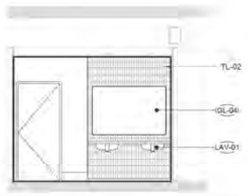
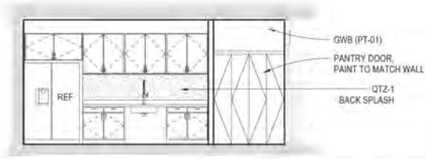
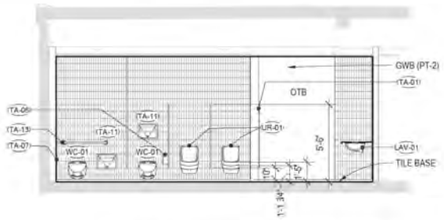



MENS ROOM 20 - NORTH ELV 11
SCALE: 1/4" = 1'-0"




STAFF LOUNGE 15 - ELV 05
SCALE: 1/4" = 1'-0"

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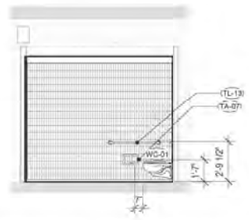


MENS ROOM 20 - SOUTH ELV 09
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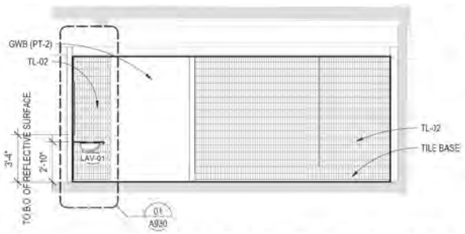


MENS ROOM 20 - EAST ELV 04
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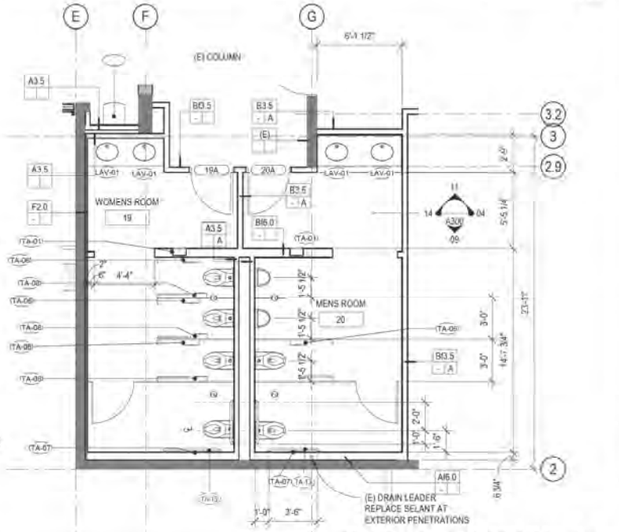


COMMON RESTROOMS 01
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1

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ENLARGED PLANS AND ELEVATION

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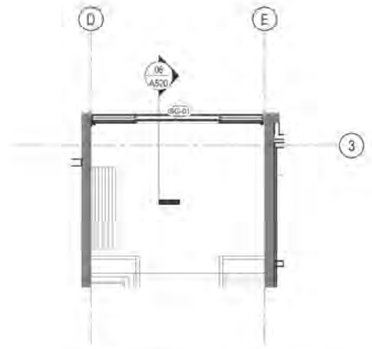
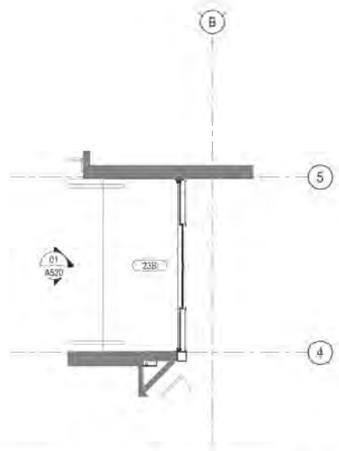
Sheet No.
A300




ENLARGED PLAN @ MAIN ENTRY 02
SCALE: 1/4" = 1'-0"




ENLARGED PLAN @ SECONDARY ENTRY 01
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Date & Signature:

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JEFFREY MICHAEL MARTIN
C-34366
STATE OF CALIFORNIA

Sheet Name:
ENLARGED PLANS

Project No.: 2410
Drawn By: Author
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Sheet No.:
A301

## INTEGRATED SYSTEM LEGEND

| | |
|---|---|
| SCP | SECURITY CONTROL PANEL |
| ACM | ACCESS CONTROL PANEL |
| APS | ACCESS CONTROL POWER SUPPLY |
| LPS | DOOR LOOK POWER SUPPLY |
| SKP | SECURITY SYSTEM KEYPAD |
| DT | DUAL-TECHNOLOGY MOTION SENSOR |
| REX | REQUEST TO EXIT MOTION SENSOR |
| DP | DOOR POSITION SWITCH |
| CR | ACCESS CONTROL CARD READER |
| EL | ELECTRIFIED DOOR LOCKING HARDWARE |
| | INTERIOR CAMERA WITH 180 DEGREE FIELD OF VIEW |
| 360 | INTERIOR DOME CAMERA WITH 360 DEGREE FIELD OF VIEW |
| 180 WP | EXTERIOR DOME CAMERA WITH 180 DEGREE FIELD OF VIEW |
| | FIRE SPRINKLER HEAD |

## RCP LEGEND

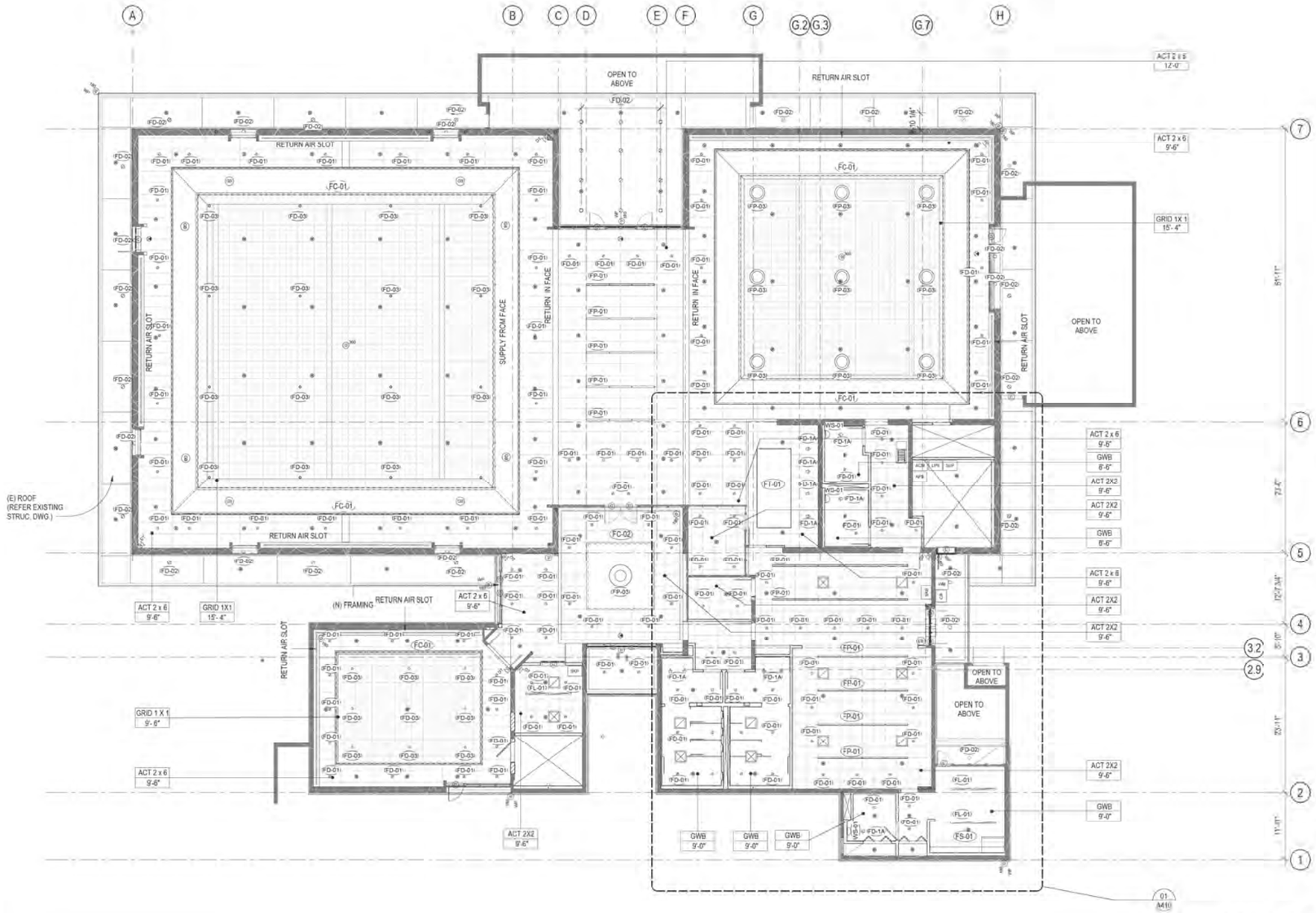
| | |
|---|---|
| | SUPPLY AIR GRILL |
| | EXHAUST AIR GRILL |
| | SLOT DIFFUSER |
| | EXIT SIGN |
| | RECESSED CAN LIGHT |
| | SUSPENDED CAN LIGHT |
| | DIRECTIONAL RECESSED CAN LIGHT |
| | PENDANT LIGHT |
| | 1' X 4' RECESSED RECTANGULAR LIGHT |
| | 1' X 4' PENDANT RECTANGULAR LIGHT |
| | SPRINKLER HEAD |
| | WALL SCONE |
| | COVE LIGHT |
| | STRIP LIGHT |

SHEET NOTES

1) LOCATIONS OF EXISTING DEVICES ARE APPROXIMATED FROM DESIGN DRAWINGS DATED OCT 1, 1971. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS PRIOR TO COMMENCING WORK.

2) ALL LIGHTS ARE TO BE REPLACED WITH LED

3) REFER TO A401 FOR LIGHTING SCHEDULE




REFLECTED CEILING PLAN 01
SCALE: 1/8" = 1'-0"

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Sheet Name:
REFLECTED CEILING PLAN

Project No.: 24.07
Drawn By: AM/NV
Checked By: JM/MM
Scale: As indicated

Sheet No.:
A400

LIGHTING SCHEDULE

| | DESCRIPTION | IMAGE | LOCATION | MANUFACTURER | PART NUMBER | MOUNTING | FINISH NOTE | CCT | WATTAGE | LUMENS | DIMMING | VOLTAGE | LINK | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FD-01 | RECESSED DOWNLIGHT - TRIMLESS WIDE FLOOD | | GENERAL | FOCAL POINT | ID=3.5" | RECESSED | TBD | 3500K | 17W | 1,484 | 0-10V | UNV | CUTSHEET | *CONFIRM FINISH |
| FD-01A | RECESSED WALLWASHER - TRIMLESS - WIDEFLOOD | | RESTROOMS | FOCAL POINT | ID=3.5" | RECESSED | TBD | 3500K | 19W | 1,516 | 0-10V | UNV | CUTSHEET | *CONFIRM FINISH |
| FD-02 | RECESSED DOWNLIGHT - TRIMLESS EXTERIOR | | EXTERIOR SOFFIT | FOCAL POINT | ID=3.5" | RECESSED | WHITE | 3500K | 10W | 910LM | 0-10V | UNV | CUTSHEET | *CONFIRM MOUNTING |
| FD-03 | SUSPENDED CYLINDER WALLWASHER-WIDEFLOOD | | ADULT READING AREA | FOCAL POINT | ID= 3.5" WIDE FLOOD | SUSPENDED | WHITE | 3500K | 25.W | 2318LM | | | CUTSHEET | |
| FL-01 | RECESSED LINEAR | | STAFF ROOM | FOCAL POINT | SEEM 1 FSM1-BW-025F-35K-1C-UNV-L11-GRSD-WH-LENGTH | RECESSED | WHITE | 3500K | 6W/FT | 625LM/FT | 0-10V | UNV | CUTSHEET | *CONFIRM MOUNTING AND LENGTHS PER DRAWING |
| FP-01 | SUSPENDED INDIRECT LINEAR - DIMMABLE | | STAFF ROOM | ALW | SUPERPLANE 2.3 | SUSPENDED | TBD | 3500K | 11W/FT | 1260LM/FT | 0-10V | UNV | CUTSHEET | *CONFIRM MOUNTING AND LENGTHS PER DRAWING. CONFIRM ALL FINISHES |
| FP-03 | SUSPENDED DIRECT CIRCULAR | | CHILDREN'S READING AREA | BUZZI LIGHT | BUZZLIGHT | SUSPENDED | TBD | 3500K | 29W | 2545 LM | 0-10V | UNV | CUTSHEET | *WILL BE REPLACED WITH BUDGET OPTION |
| FT-01 | SKYLIGHT | | CHILDRENS ROOM | COELUX | Coelux High Tech 2S | RECESSED | | | | | | | CUTSHEET | |
| FC-01 | COVE LIGHT | | RESTROOMS | WAC | INVISILED CCT T24-CSXX-LENGTH-2750-WT | SURFACE | NA | SELECTABLE 27K/30K/35K/40K/50K | 8.5W/FT MAX | 000LM/FT MAX | ELV 0-10V | 24VDC | CUTSHEET | *CONFIRM MOUNTING AND LENGTHS PER DRAWINGS. PROVIDE ALL COMPONENTS FOR FULLY OPERATIONAL AND DIMMABLE SYSTEM. |
| FC-01 ALT | COVE LIGHT | | RESTROOMS | FOCAL POINT | SEEM 2 PERIMETER FSM2PR-FXH-FL4-625LF-35K-1C-UNV-LD1-MOUNT-WH-LENGTH | RECESSED | WHITE | 3500K | 7.7W/FT | 644LM/FT | 0-10V | UNV | CUTSHEET | *CONFIRM MOUNTING AND LENGTHS PER DRAWING. CONFIRM ALL FINISHES |
| FC02 | COVE LIGHT | | READING AREAS / MULTI-PURPOSE ROOM | ALUZ | ZAFU SNAKE A1-ZAFU-SNK-F-NH-35K-6W-10V-FEED-DRY-UNV-LENGTH | SURFACE | WHITE | 3500K | 6W/FT | 720LM/FT | 0-10V | UNV | CUTSHEET | *CONFIRM MOUNTING AND LENGTHS PER DRAWING |
| FS-01 | UNDERCABINET | | STAFF LOUNGE | WAC | INVISILED PRO 2 LED-TX2434-1-40-WT | SURFACE | WHITE | 3500K | 4W/FT | 390LM/FT | DIM | 24VDC | CUTSHEET | *CONFIRM MOUNTING AND LENGTHS PER DRAWINGS. PROVIDE ALL COMPONENTS FOR FULLY OPERATIONAL AND DIMMABLE SYSTEM. |
| FS-01 ALT | UNDERCABINET | | STAFF LOUNGE | WAC | BARLIGHT BA-ACXX-CS-WT | SURFACE | WHITE | SELECTABLE 27K/30K/35K | 7.5W/FT | 455LM/FT | ELV | 120V | CUTSHEET | *CONFIRM MOUNTING AND LENGTHS PER DRAWINGS. PROVIDE ALL COMPONENTS FOR FULLY OPERATIONAL AND DIMMABLE SYSTEM. |
| WS-01 | WALL SCONE | | FAMILY RESTROOM AND STAFF RESTROOM | MULLAN | NAKAII COLLECTION SKU : MLCMWL039 | SURFACE | | | 6.5 W LED | | STANDARD | 120V | CUTSHEET | |
| EX-01 | EXIT SIGN | | | ARCHITECTURAL SAFETY COMPONENTS | LELU | SURFACE | TBD | NA | Aw mout | | NA | | CUTSHEET | |
| S-01 | WALL LIGHT | | MAIN ENTRY/ MULTIPURPOSE PATIO | SPJ | SPJ SPJ-6DG-31WP | SURFACE | BLACK | SELECTABLE 27K/30K/35K/40K | 10W | | | 120-277 V | CUTSHEET | |
| S-02 | BOLLARD | | SITE | TARGETTI | Targetti Chicbo Bollard Light CBB-41-40-36-L3-27-BZ-MG With Base 1US40352BZ, and Jbox 1US2530 | | BLACK | SELECTABLE 27K/30K/35K/40K | 20W (BAO') | | | 120-277V | CUTSHEET | |
| S-03 | AREA LIGHT | | SITE | Landscape Forms | Landscape Forms Motive Area Light AJ500 – LD-80F – 27K – UV1 – P2 – NTW – BRZ With Pole AJ550-10-01-BRZ | | BLACK | | 82W | 24lll7 | | | CUTSHEET | |
| S-04 | DIRECTIONAL LIGHT | | SITE | SPJ | SPJ Directional Light SPJ-AL3-8W-MBR-8W-27K-12-15V-WAF With mounting canopy SPJ 19-01 | SURFACE | Matte Bronze | | 8W | 580 | | 12-15v | CUTSHEET | |
| | CONTROLS | | | | WAVELINX WIRELESS & INTEGRATED OPTIONS REFER TO EXAMPLE CONTROLS DRAWINGS FOR YOUR REFERENCE | | | | | | | | | |

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Civil: UPLAND STUDIO

Electrical: INTERFACE ENGINEERING

Low Voltage: JENSEN HUGHES

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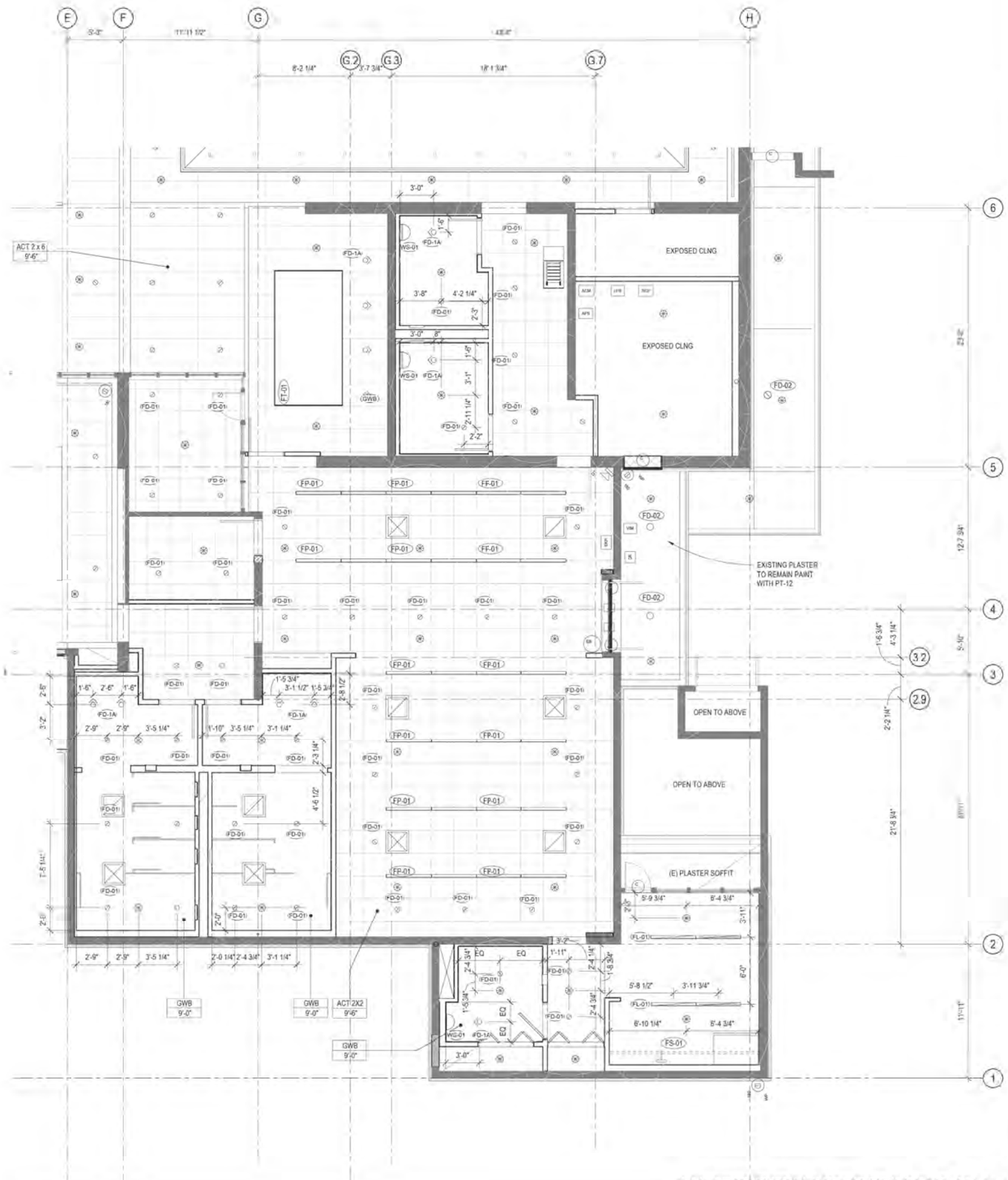
Sheet Name: LIGHTING SCHEDULE

Project No.: 2419
Drawn By: Author
Checked By: Checker
Scale:

Sheet No.: A401




ENLARGED REFLECTED CEILING PLAN 01
SCALE: 1/4" = 1'-0"

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Sheet Name:
ENLARGED REFLECTED CEILING PLAN

Project No.: 2435
Drawn By: Author
Checked By: Checker
Scale: 1/4" = 1'-0"

Sheet No.: A410

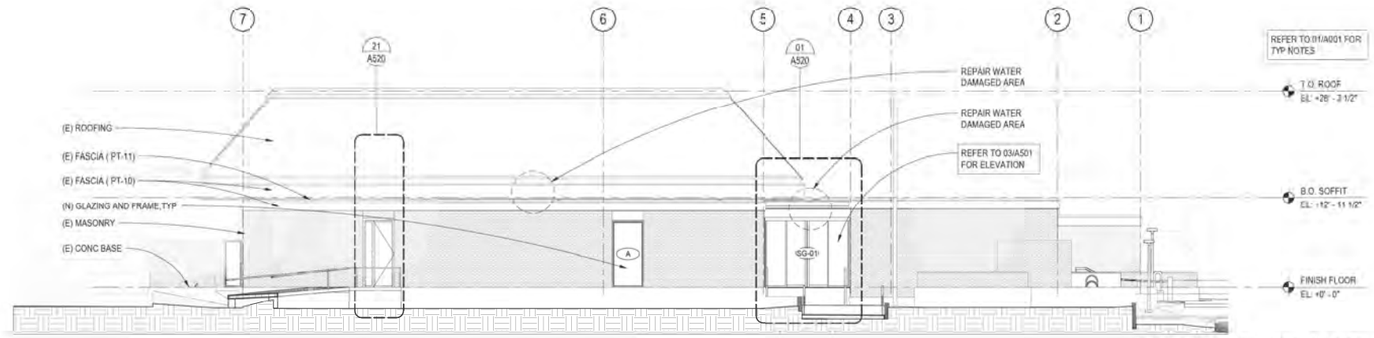
SHEET NOTES:

1) CONTRACTOR SHALL OBSERVE ENTIRETY OF BUILDING FOR WATER DAMAGE. WHERE THE FASCIA SHOW SIGNS OF DAMAGE CAREFULLY REMOVE FULL BOARD AND REPLACE IN KIND WITH SCARF JOINTS. PRIOR TO REINSTALLING THE FASCIA BOARD, REMOVE ALL MILDEW AND APPLY MILDICIDE PRIMER.

2) WHERE GUTTERS ARE FAILING OR IN NEED OF MAINTENANCE, CAREFULLY REMOVE AND CLEAN FOR REINSTALLATION. RESEAL ALL PENETRATIONS OF DRAIN LINES INTO BUILDING.

3) PHOTOGRAPH AREAS WHERE EXTERIOR FINISHES ARE TO BE REMOVED PRIOR TO COMMENCING AND THROUGHOUT PROCESS. REFER TO 02 41 00 "SELECTIVE DEMOLITION" FOR ADDITIONAL NOTES.

4) UPON REMOVAL OF FINISHES IF AREAS APPEAR SIGNIFICANTLY DAMAGED OR DETERIORATED NOTIFY ARCHITECT FOR OBSERVATION AND DETERMINATION OF EXTENT OF REPAIR.




OVERALL W ELEVATION 04
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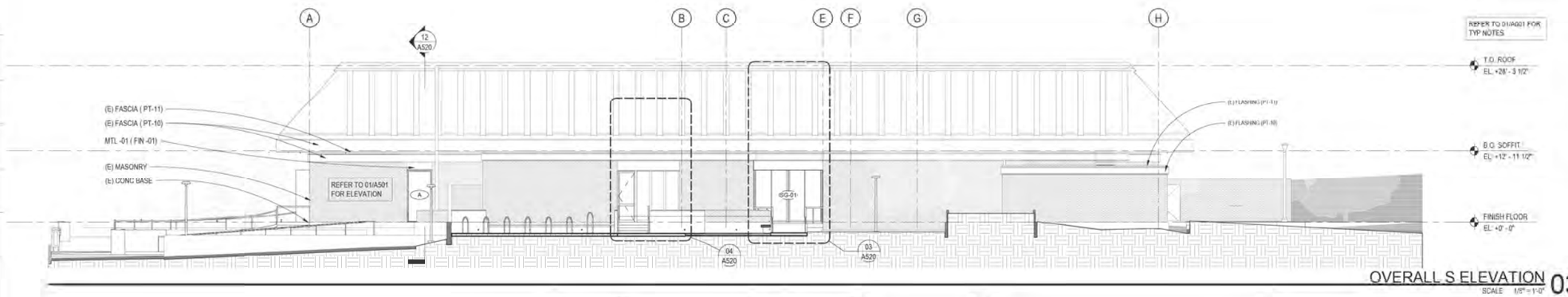


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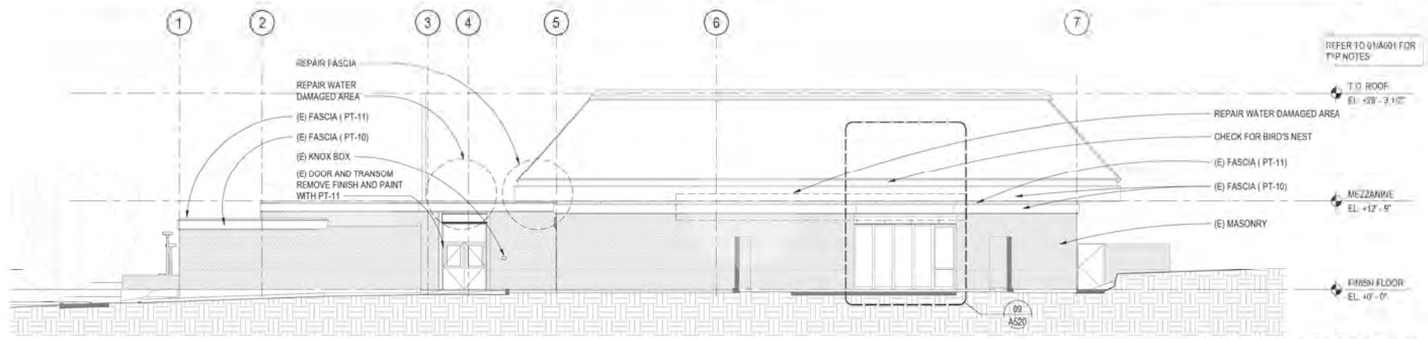


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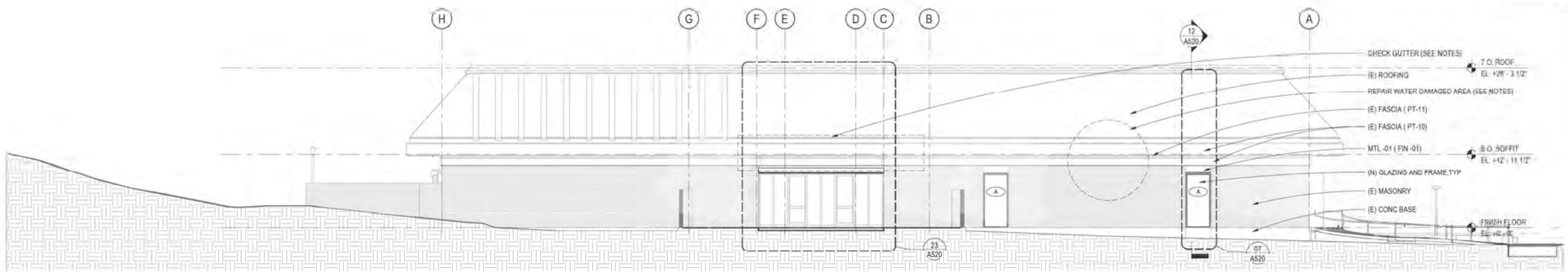


OVERALL N ELEVATION 01
SCALE: 1/8" = 1'-0"

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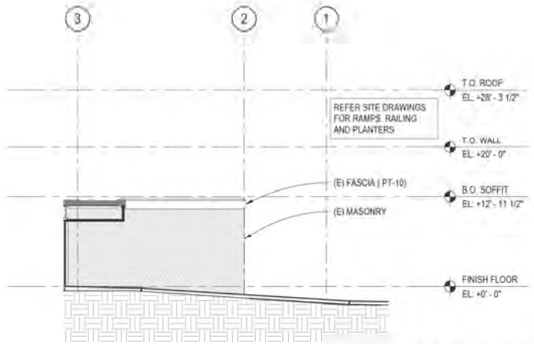
Seal & Signature:
LICENSED ARCHITECT Richard Mark Gleave STATE OF CALIFORNIA

Sheet Name:
OVERALL BUILDING ELEVATION

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 1/8" = 1'-0"

Sheet No.: A500




S ENTRY E ELEVATION 09
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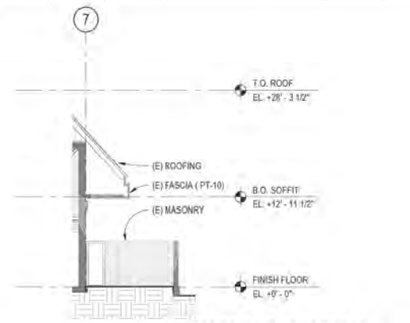


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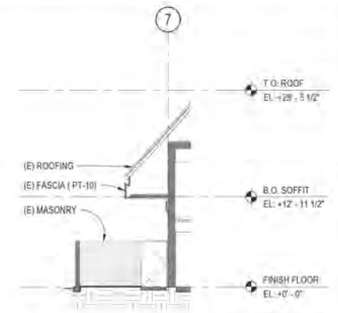


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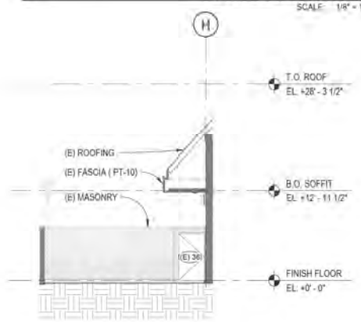


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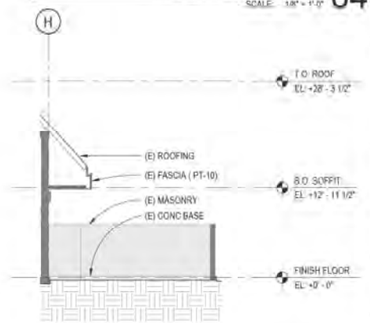


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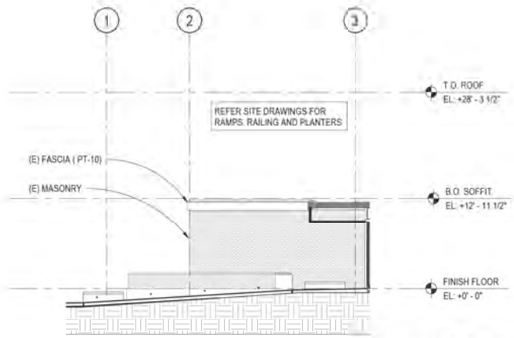


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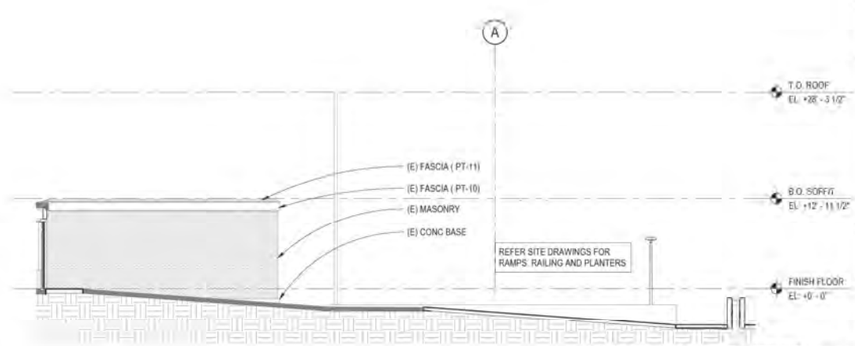


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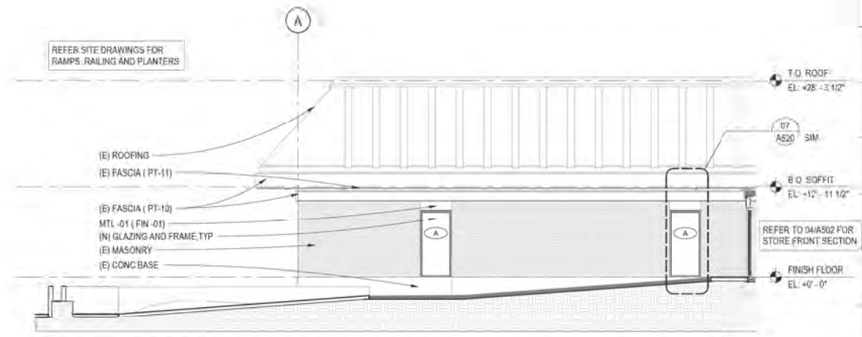
SCALE: 1/8" = 1'-0"


S-ENTRY ELEVATION TOP OF RAMP LEVEL 07
SCALE: 1/8" = 1'-0"




W ENTRY S ELEVATION 01
SCALE: 1/8" = 1'-0"

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REGISTERED PROFESSIONAL
Christine
STATE OF CALIFORNIA

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OVERALL BUILDING ELEVATION

Project No.: 24.10
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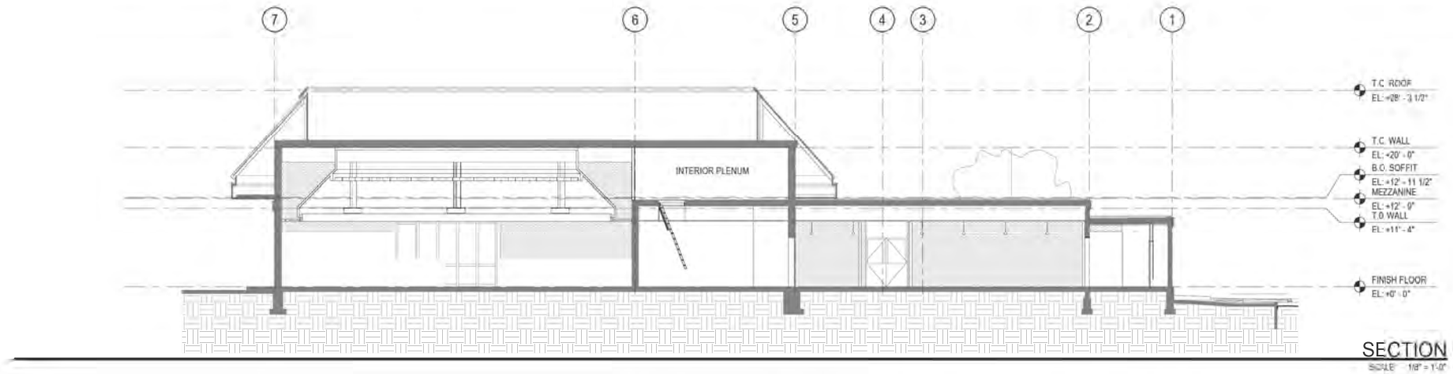
Checked By: Checker
Scale: 1/8" = 1'-0"

Sheet No.: A501




SECTION 04
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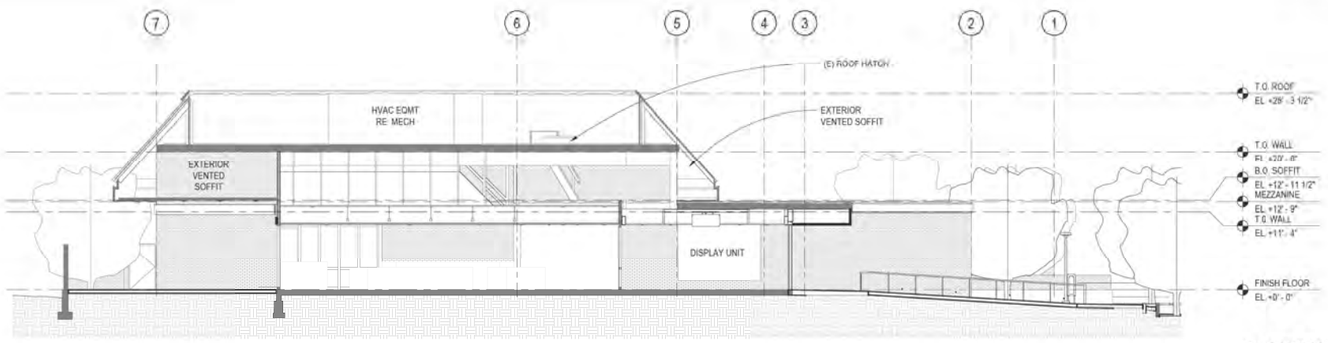


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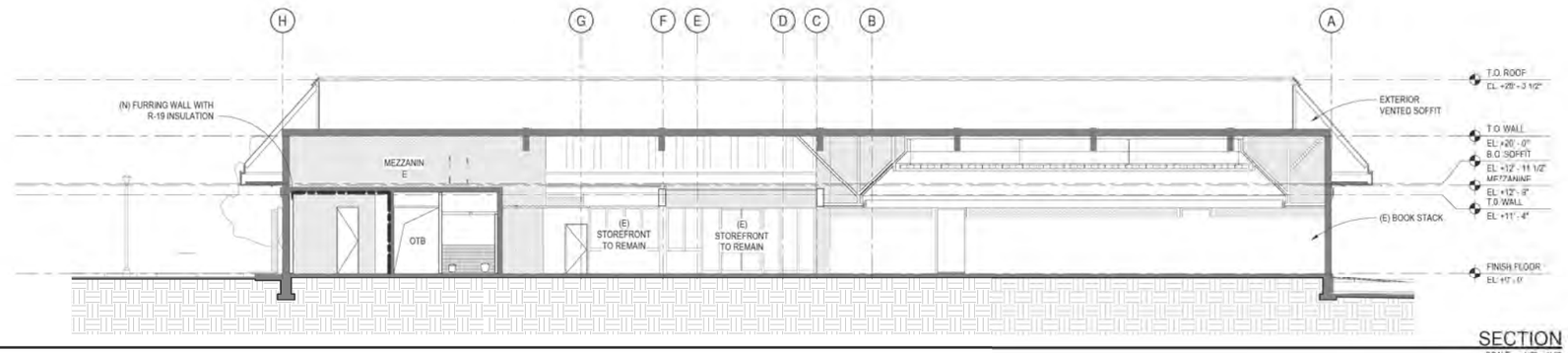


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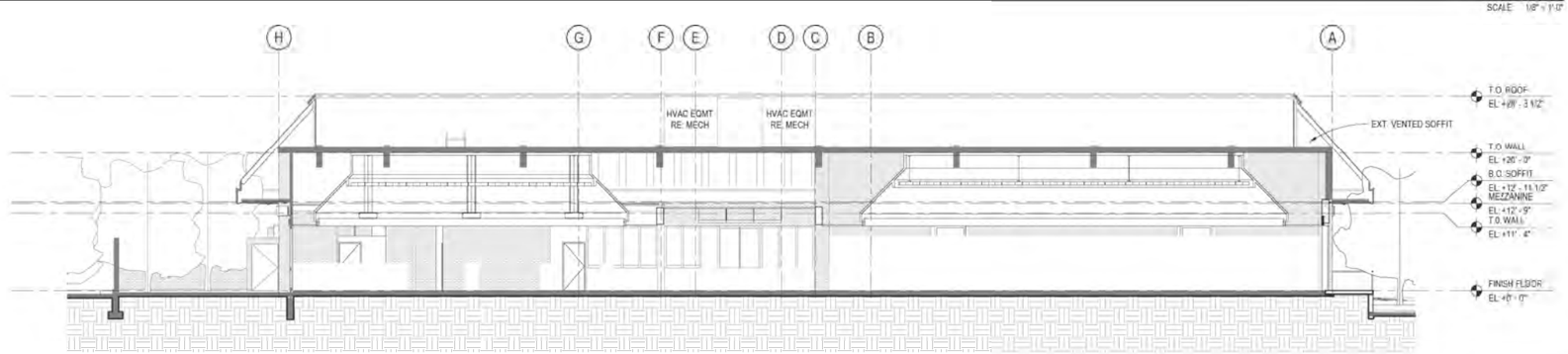


SECTION 01
SCALE: 1/8" = 1'-0"

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MICHAEL MARTIN
C-34355
STATE OF CALIFORNIA

Sheet Name:
BUILDING SECTIONS

Project No.: 24.05
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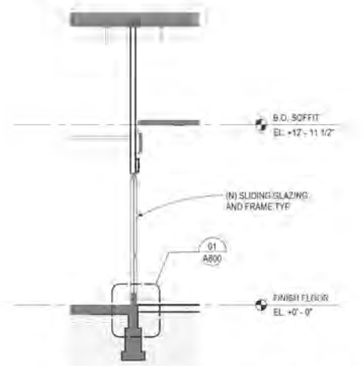
Scale: 1/8" = 1'-0"

Sheet No.: A510

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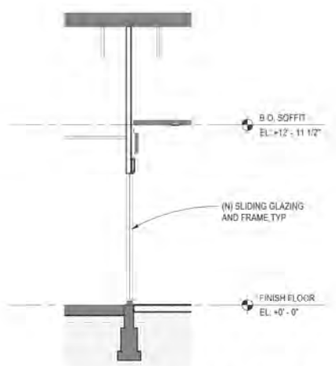


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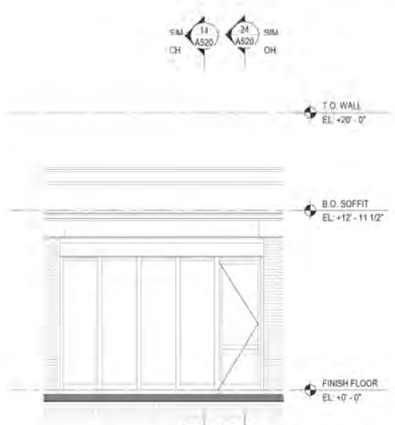


ENLARGED ELEVATION 09
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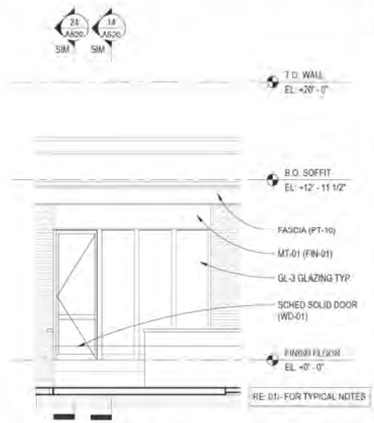


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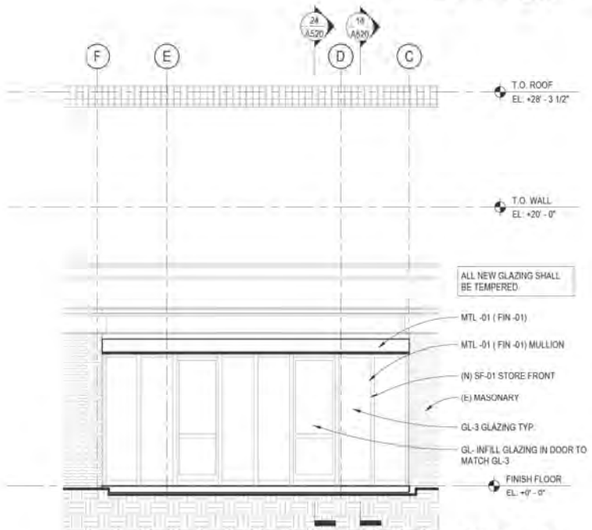


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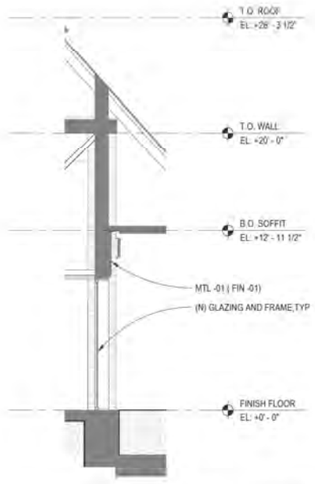


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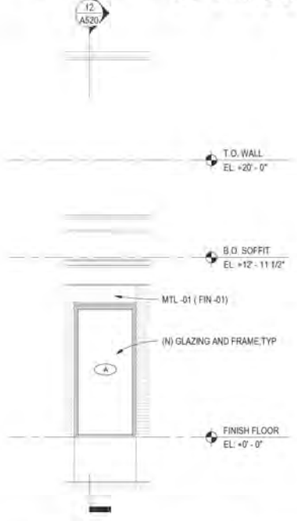


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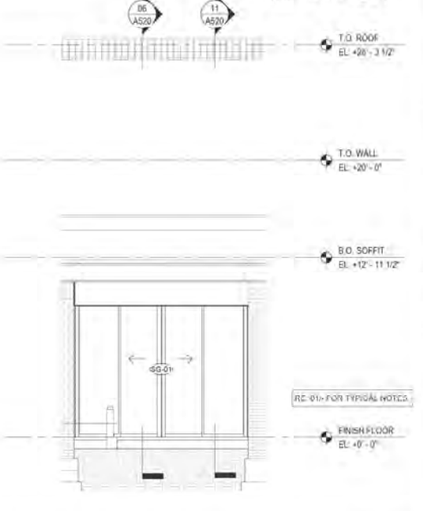


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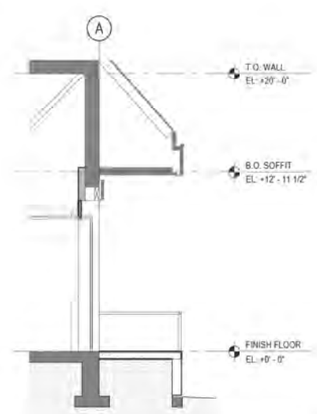


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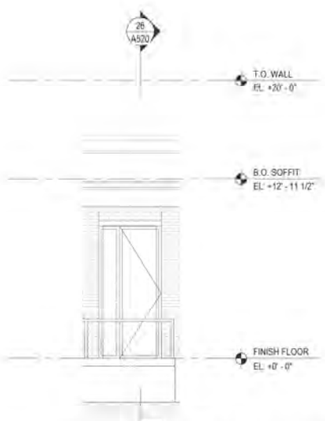


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SECT @ SIDE LIGHT 11
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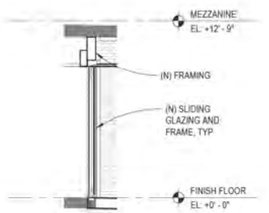


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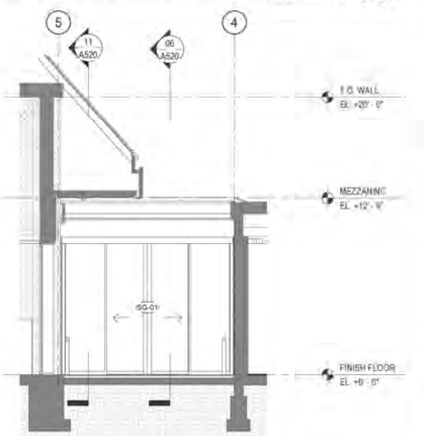


ENLARGED SIDE ENTRY ELEVATION 01
SCALE: 1/4" = 1'-0"

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JEFFREY MARTIN
C-30356
STATE OF CALIFORNIA

ENLARGED ELEVATION AND WALL SECTIONS

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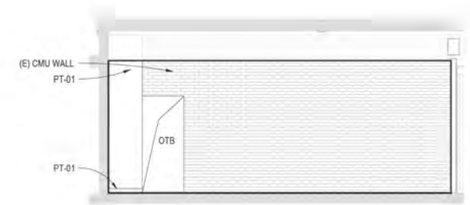


STAFF LOUNGE 18 - SOUTH ELV 02
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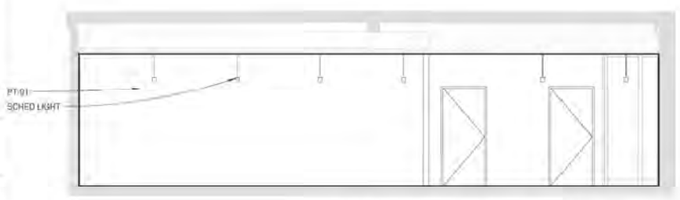


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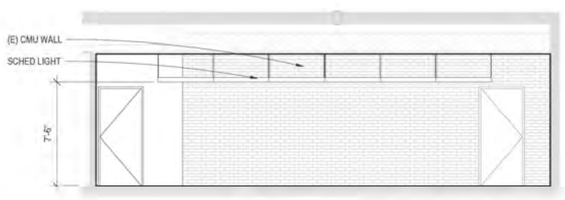


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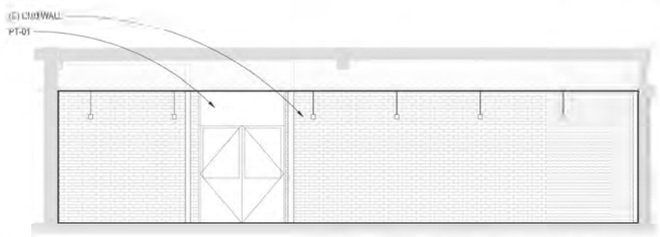


STAFF LOUNGE 18 - EAST ELV 01
SCALE: 1/4" = 1'-0"

LICENSED ARCHITECT
MICHAEL J. MARTINEZ
No. C-37058
STATE OF CALIFORNIA

Sheet Name:

ENLARGED
INTERIOR
ELEVATIONS

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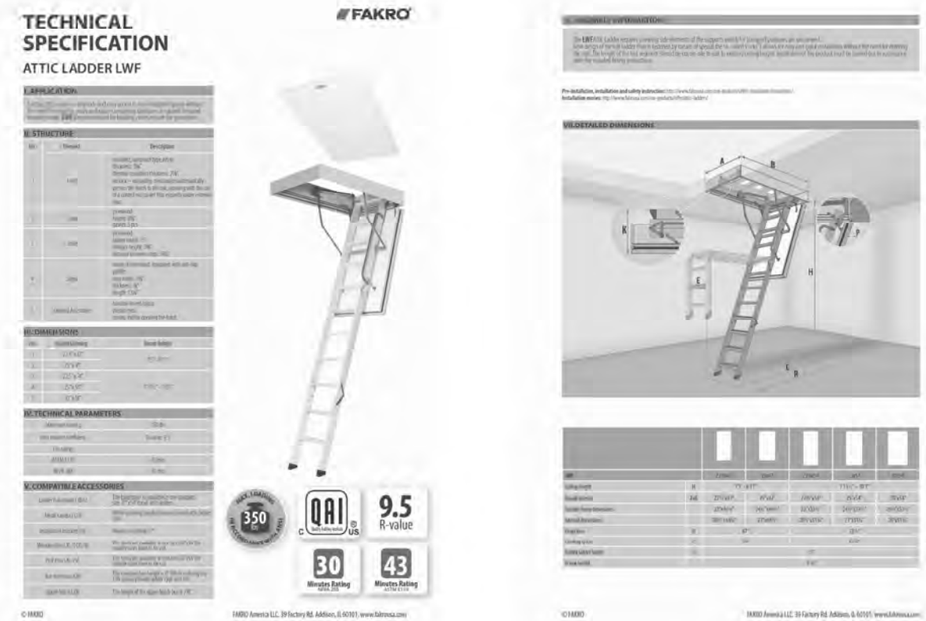
Drawn By: Author
Checked By: Checker
Scale: 1/4" = 1'-0"

Sheet No.: A600




(N) SHIPLADDER CUTSHEET 11

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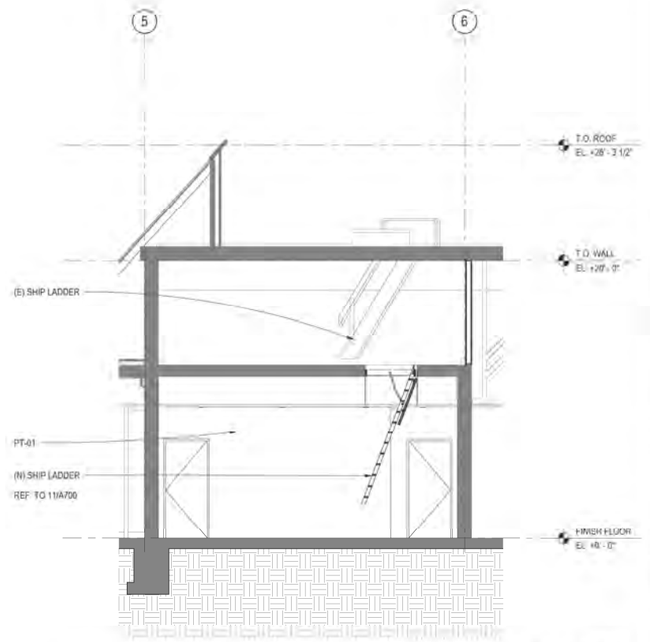


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JAMES MILLER
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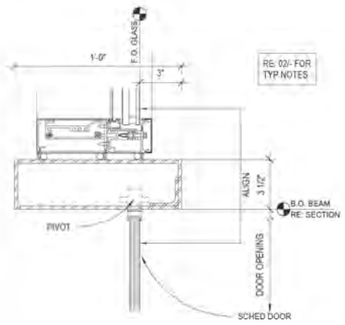
STATE OF CALIFORNIA

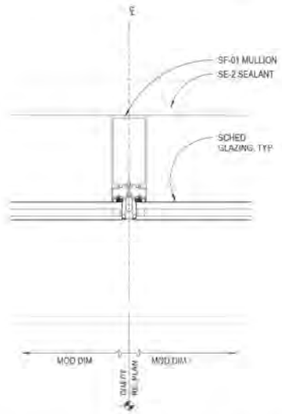
Sheet Name:
ENLARGED INTERIOR SECTIONS

Project No.: 24.01
Drawn By: Author
Checked By: Checker
Scale: As shown

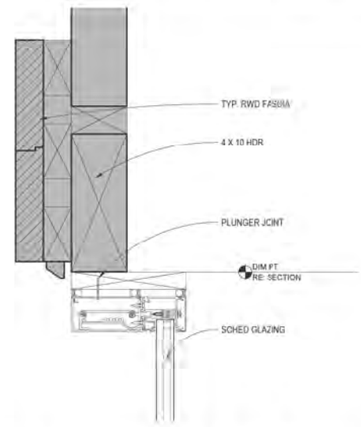
Sheet No.: A700



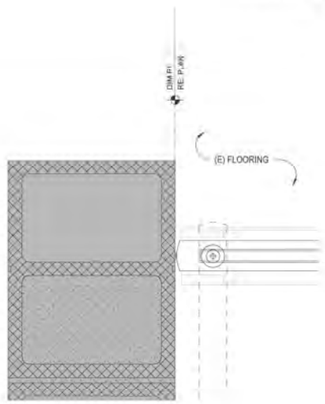

DETAIL @ LOWER HEAD EXIT DOOR 24
SCALE: 3" = 1'-0"



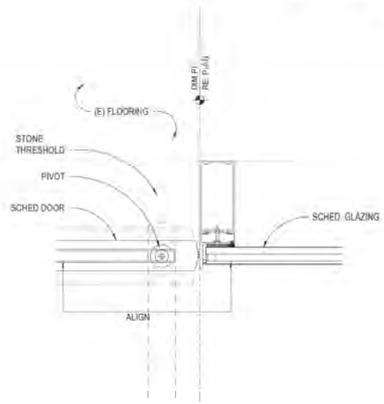

MULLIUON DETAIL @ WINDOW TO WINDOW 14
SCALE: 3" = 1'-0"



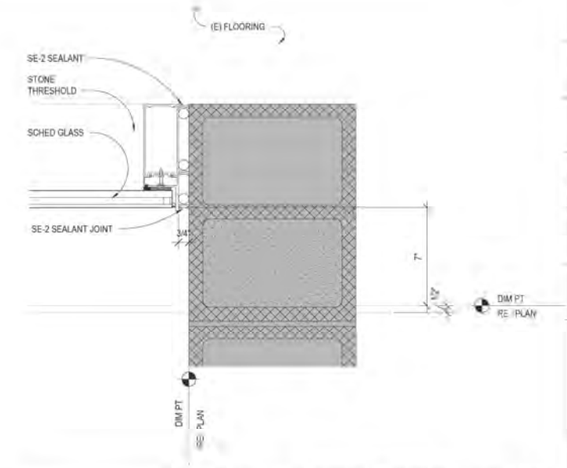

DETAIL @ UPPER HEAD WITH TRANSOM ON THE PATIO 04
SCALE: 3" = 1'-0"



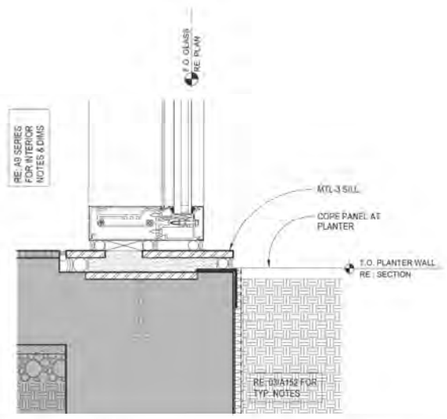

PLAN DETAIL @ EXTERIOR DOOR JAMB 22
SCALE: 3" = 1'-0"



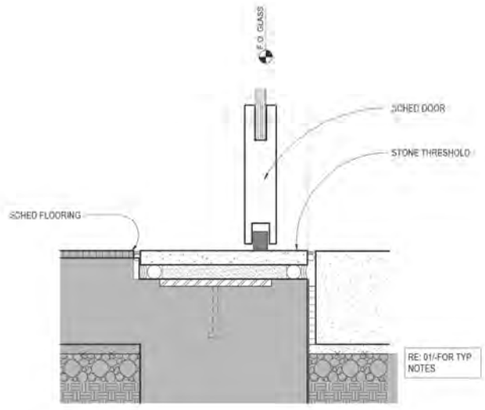

PLAN DETAIL @STOREFRONT TO DOOR 12
SCALE: 3" = 1'-0"



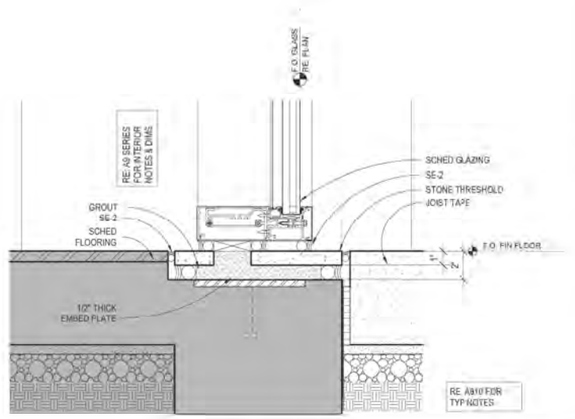

PLAN DETAIL @ STOREFRONT JAMB 02
SCALE: 3" = 1'-0"




SECT DETAIL @ STOREFRONT SILL PLANTER 21
SCALE: 3" = 1'-0"




SECT DETAIL @ EXTERIOR DOOR SILL 11
SCALE: 3" = 1'-0"




SECT DETAIL @ STOREFRONT SILL 01
SCALE: 3" = 1'-0"

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Goleta, CA 93117

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Consultants:
kpff
UPLAN PLANNING
INTERFACE ENGINEERING
JENSEN HUGHES

Issued For:

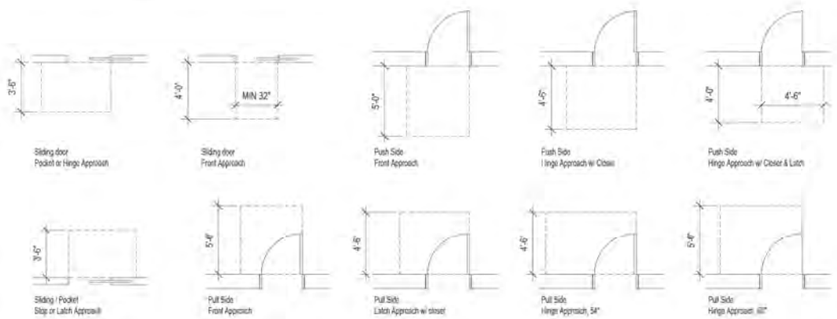
| No | Description | Date |
|---|---|---|
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | 90% CONSTRUCTION DOCUMENT | 07 MAR 2025 |
| | ISSUED FOR PERMIT | 20 MAR 2025 |

LICENSED ARCHITECT
STATE OF CALIFORNIA

Sheet Name:
EXTERIOR STOREFRONT DETAIL

Project No.: 24.01
Drawn By: AM/NI
Checked By: JM/AM
Scale: 3" = 1'-0"

Sheet No.: A800




## DOOR ACCESSIBILITY

| HDWR GRP 01A | EXTERIOR STORE FRONT SLIDING DOUBLE DOOR | | | |
|---|---|---|---|---|
| PROVIDE EACH PAIR OF DOORS WITH THE FOLLOWING: | | | | |
| QTY | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
| | *HARDWARE BY STOREFRONT DOOR MANUFACTURER.<br>DOORS TO INCLUDE PANIC BOLT PUSH BAR ASSEMBLY<br>AND POSITION INDICATORS AND ELECTRIFIED HARDWARE<br>WHERE INDICATED IN DOOR SCHEDULE.** | | | |

| HDWR GRP 01B | EXTERIOR EGRESS ONLY DOOR | | | |
|---|---|---|---|---|
| PROVIDE EACH PAIR OF DOORS WITH THE FOLLOWING: | | | | |
| QTY | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
| 3 EA. | HINGE | 5BB1 4.5X4.5 | 652 | IVE |
| 1 EA. | FIRE EXIT HARDWARE | F-CS-O-ML-512 | 626 | VON |
| 1 EA. | SURFACE CLOSER | 1C81 REG OR PA AS REQ'D | 689 | FAL |
| 1 SET | SEALS | 9050C | BLK | NGP |
| 1 EA. | DOOR BOTTOM | 320N | AL | NGP |
| 1 EA. | THRESHOLD | 313 MS/LA | DKB | NGP |
| 1 EA. | KICK PLATE | 8400 10" BOS | 630 | IVE |
| 1 EA. | BALANCE MAGNETIC SWITCH | BY SECURITY VENDOR | | |
| | PROVIDE FACTORY POINT TO POINT WIRING DIAGRAMS. DOOR SHALL BE ALARMED | | | |

| HDWR GRP 02A | GANDED RESTROOM DOOR | | | |
|---|---|---|---|---|
| PROVIDE EACH DOOR WITH THE FOLLOWING: | | | | |
| QTY | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
| 3 EA. | HINGE | 5BB1 4.5X4.5 | 652 | IVE |
| 1 EA. | CONCEALED CLOSER | 2010 HO | 689 | LCN |
| 1 EA. | 10" PUSH PLATE | 8200 | 630 | IVE |
| 1 EA. | 4"x16" PULL PLATE | 8303 | 630 | IVE |
| 1 EA. | WALL STOP | 407.10.B92 | ANT | IVE |
| | THRESHOLD AS DETAILED | | | |

| HDWR GRP 02B | SINGLE OCCUPANT RESTROOM | | | |
|---|---|---|---|---|
| PROVIDE EACH DOOR WITH THE FOLLOWING: | | | | |
| QTY | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
| 3 EA. | HINGE | 5BB1 4.5X4.5 | 652 | IVE |
| 1 EA. | CONCEALED CLOSER | 2010 HO | US10 | LCN |
| 1 EA. | PRIVACY IND LOCK | L9456T 06A L583-363 ;283-723 | 630 | SCH |
| 1 EA. | PRIMUS CORE | 20-740 | 626 | SCH |
| 1 EA. | WALL STOP | 407.10.B92 | ANT | IVE |
| 1 EA. | GASKETING | 188SBK PSA | BK | ZER |
| | THRESHOLD AS DETAILED | | | |

| HDWR GRP 03 | JANITOR'S CLOSET | | | |
|---|---|---|---|---|
| PROVIDE EACH DOOR WITH THE FOLLOWING: | | | | |
| QTY | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
| 3 EA. | HINGE | 5BB1 4.5X4.5 | 652 | IVE |
| 1 EA. | STOREROOM LOCK | T581HO7 QUA | 630 | FAL |
| 1 EA. | SURFACE CLOSER | 1C81 REG OR PA AS REQ'D | 689 | FAL |
| 1 EA. | STOP | W346SCCV OR FS436 AS REQ'D | 626 | IVE |
| 1 SET | SEALS | 9050C | BLK | NGP |
| 1 EA. | DOOR BOTTOM | 320N | AL | NGP |
| 1 EA. | THRESHOLD | 513 MS/LA | AL | NGP |

| HDWR GRP 04 | OFFICE/ MOTHER'S ROOM | | | |
|---|---|---|---|---|
| PROVIDE EACH DOOR WITH THE FOLLOWING: | | | | |
| QTY | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
| 3 | HINGE | 5BB1 4.5X4.5 | 652 | IVE |
| 1 EA. | PRIVACY IND LOCK | L9456T 06A L583-363 ;283-723 | 626 | SCH |
| 1 EA. | SFIC CORE | CBCT | 626 | FAL |
| 1 EA. | SURFACE CLOSER | 1C81 REG OR PA AS REQ'D | 689 | FAL |
| 1 EA. | STOP | W346SCCV OR FS436 AS REQ'D | 626 | IVE |
| 1 SET | SEALS | 9050C | BLK | NGP |
| 1 EA. | DOOR BOTTOM | 320N | AL | NGP |
| 1 EA. | THRESHOLD | 513 MS/LA | AL | NGP |

| HDWR GRP 05 | STORAGE CLOSET DOOR | | | |
|---|---|---|---|---|
| PROVIDE EACH DOOR WITH THE FOLLOWING: | | | | |
| QTY | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
| 3 EA. | HINGE | 5BB1 4.5X4.5 | 652 | IVE |
| 2 EA. | DUMMY TRIM | K13530 (SAME) | 630 | FAL |
| 2 EA. | BALL CATCH | 347 | BTS | IVE |

| HDWR GRP 06 | OFFICE DOOR | | | |
|---|---|---|---|---|
| PROVIDE EACH DOOR WITH THE FOLLOWING: | | | | |
| QTY | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
| 3 EA. | HINGE | 5BB1 4.5X4.5 | 630 | IVE |
| 1 EA. | OFFICE LOCK | T501S QUAE | 630 | FAL |
| 1 EA. | OVHD STOP | 1005 | US10B | GLY |
| 1 EA. | DOOR BOTTOM | 320N | GRY | NGP |
| 1 EA. | GASKET | 188SBK PSA | BK | ZER |

| HDWR GRP 07 | UTILITY DOOR | | | |
|---|---|---|---|---|
| PROVIDE EACH DOOR WITH THE FOLLOWING: | | | | |
| QTY | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
| 3 EA. | HINGE | 5BB1 4.5X4.5 | 652 | IVE |
| 1 EA. | STOREROOM LOCK | T581HO7 QUA | 630 | FAL |
| 1 EA. | SURFACE CLOSER | 1C81 REG OR PA AS REQ'D | 689 | FAL |
| 1 EA. | STOP | W346SCCV OR FS436 AS REQ'D | 630 | IVE |
| 1 SET | SEALS | 9050C | BLK | NGP |
| 1 EA. | DOOR BOTTOM | 320N | AL | NGP |
| 1 EA. | THRESHOLD | 513 MS/LA | AL | NGP |

DOOR SCHEDULE

| NUMBER | FROM ROOM : NAME | DOOR TYPE | DOOR WIDTH | DOOR HEIGHT | DOOR MATERIAL | DOOR FINISH | FRAME TYPE | FRAME MATERIAL | FRAME FINISH | DETAIL JAMB | DETAIL HEAD | DETAIL SILL | LABEL/RATING | SMOKE | ACOUST IC | HARDWARE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (E)1 | (E) CHECK OUT DESK | | 3'-0" | 8'-10 1/2" | EXISTING | | | - | - | - | - | | | | | | |
| (E)2 | (E) CHECK OUT DESK | | 3'-0" | 8'-10 1/2" | EXISTING | | | - | - | - | - | | | | | | |
| (E)3 | (E) CHILDREN PATIO | | 2'-11 1/2" | 9'-3 1/2" | EXISTING | | | - | - | - | - | | | | | | |
| (E)5 | STAFF ROOM | N | 6'-0" | 7'-0" | EXISTING | EXISTING | M | EXISTING | - | - | - | | | | | | EXISITING STAFF ENTRANCE. MODIFY AS REQ'D FOR NEW SECURITY SYSTEM |
| (E)6 | STAFF PATIO | | 2'-7 1/2" | 7'-9 1/2" | EXISTING | | | EXISTING | - | - | - | | | | | | EXISITING MAINTAINENANCE GATE |
| (E)10 | LOBBY | | 6'-0" | 9'-3 1/2" | EXISTING | | | EXISTING | - | - | - | | | | | | EXISITING MAINTAINENANCE GATE |
| (E)17 | CHILDREN | | 2'-10" | 9'-3 1/2" | EXISTING | | | EXISTING | - | - | - | | | | | | EXISITING MAINTAINENANCE GATE |
| (E)35 | (E) PATIO | F | 3'-8" | 6'-8" | EXISTING | EXISTING | M | EXISTING | | | | - | | | | | |
| (E)36 | (E) CHILDREN PATIO | F | 3'-8" | 6'-8" | EXISTING | EXISTING | M | EXISTING | - | - | - | - | | | | | |
| (E) 32 | MULTI - PURPOSE ROOM | F | 5'-0" | 7'-0" | EXISTING | EXISTING | D | EXISTING | | | | - | | | | | |
| (E) 37 | TRASH | F | 5'-6" | 9'-6" | HM | EXISTING | EXISTING | EXISTING | | | | - | | | | | |
| 01A | ADULT STACKS | SF | 3'-10" | 9'-6 1/2" | EXISTING | GL-02 | SL | AL | FIN-1 | 10/A901 | 09/A901 | 04/A901 | - | | | 01B | |
| 08A | CHILDREN'S STACKS | F | 3'-0" | 7'-0" | | WD - 01A | F | HM | PTD | 10/A901 | 09/A901 | 04/A901 | - | | | 03 | |
| 06A | ELEC ROOM | F | 3'-0" | 9'-6" | HM | | M | HM | PTD | 06/A901 | 05/A901 | 04/A901 | - | | | 07 | |
| 07A | FAMILY RR | F | 3'-0" | 7'-0" | WD | PTD | F | WD | PTD | 02/A901 | 03/A901 | 01/A901 | - | | | 02B | |
| 08A | CORR. | F | 3'-0" | 7'-0" | WD | PTD | F | WD | PTD | 02/A901 | 03/A901 | 01/A901 | - | | | 02B | |
| 14A | STAFF ROOM | F | 3'-0" | 7'-0" | HM | WD - 01A | F | WD | PTD | 06/A901 | 05/A901 | 04/A901 | - | | | 06 | |
| 14B | STAFF ROOM | F | 3'-0" | 7'-0" | HM | WD - 01A | F | WD | PTD | 10/A901 | 09/A901 | 04/A901 | - | | | 06 | |
| 14C | STAFF ROOM | | 3'-0" | 7'-0" | HM | PTD | M | HM | PTD | 06/A901 | 05/A901 | 04/A901 | - | | | 06 | |
| 15A | STAFF LOUNGE | | 5'-0" | 6'-8 1/2" | WD | | | WD | | | | | - | | | 05 | |
| 17A | STAFF RR | F | 3'-0" | 7'-0" | WD | PTD | F | WD | PTD | 02/A901 | 03/A901 | 01/A901 | - | | | 02B | |
| 17B | STAFF RR | | 5'-0" | 8'-5 1/2" | WD | | | WD | | | | | - | | | 05 | |
| 19A | WOMENS ROOM | F | 3'-0" | 7'-0" | WD | PTD | F | WD | PTD | 02/A901 | 03/A901 | 01/A901 | - | | | 02A | |
| 20A | MENS ROOM | F | 3'-0" | 7'-0" | WD | PTD | F | WD | PTD | 02/A901 | 03/A901 | 01/A901 | - | | | 02A | |
| 22A | OFFICE | | 3'-0" | 7'-0" | WD | WD - 01A | M | WD | PTD | 06/A901 | 05/A901 | 04/A901 | - | | | 04 | |
| 23A | LOBBY | | 12'-4" | 9'-6" | | | | | | | 02/A902 | 01/A902 | | | | 01A | BI PARTING SLIDING DOORS. HIGH / LOW ADA ACTUATORS |
| 23B | LOBBY | | 12'-4" | 9'-6" | | | | | | | | 01/A901 | | | | 01A | BI PARTING SLIDING DOORS. HIGH / LOW ADA ACTUATORS |
| 25A | STORAGE | F | 3'-6" | 7'-0" | HM | PTD | F | AL | FIN-1 | 06/A901 | 05/A901 | 04/A901 | - | | | 07 | |
| 29A | MULTI - PURPOSE ROOM | | 2'-11 1/2" | 9'-3 1/2" | HM | | | HM | | | | | - | | | | |
| 40A | BOOKSTORE | SF | 3'-10" | 9'-8 1/2" | WD | GL-02 | SL | AL | FIN-1 | 10/A901 | 09/A901 | 04/A901 | - | | | 08 | |

NOTES:

1) REPLACE STOREFRONT IN MATCHING DIMENSIONS WITH THERMALLY BROKEN SSG SYSTEM, KAWNEER 1600 OR EQ, WITH VE1-48 INFILL GLAZING AND 3 COAT KYNAR FINISH

DOOR SCHEDULE LEGEND

| | |
|---|---|
| ADO | AUTOMATIC DOOR OPENER |
| AL | ALUMINUM |
| AN | ANODIZED CLEAR |
| CR | CARD READER |
| EXT | EXTERIOR |
| FIN | HIGH PERFORMANCE COATING |
| FS | FAIL SAFE |
| FSE | FAIL SECURE |
| GALV | GALVANIZED |
| GL | GLASS |
| HO | HOLD OPEN |
| HM | HOLLOW METAL |
| IC | INTERCOM |
| INT | INTERIOR |
| KP | KEYPAD |
| NIC | NOT IN CONTRACT |
| PWC | POWDER COAT (COLOR TBD) |
| PTD | PAINTED (COLOR TBD) |
| SSC | SMOKE SEALED CONSTRUCTION |
| ST.STL | STAINLESS STEEL |
| S/S | ACOUSTIC SEALS / SHOES |
| WD | WOOD |
| "-" | NOT RATED |
| ST | STEEL |

DOOR PANEL KEY:

F - FLUSH DOOR
L - LOUVER DOOR
V - VISION GLASS
VL - VISION & LOUVER
N - NARROW WINDOW
D - DUTCH DOOR
G - GLASS DOOR WITH WINDOW
P - PIVOT DOOR
PB - PIVOT BOTTOM
FG - FULL GLASS DOOR
FL - FULL LOUVER DOOR
GL - GLASS WINDOW & LOUVER

DOOR FRAME KEY:

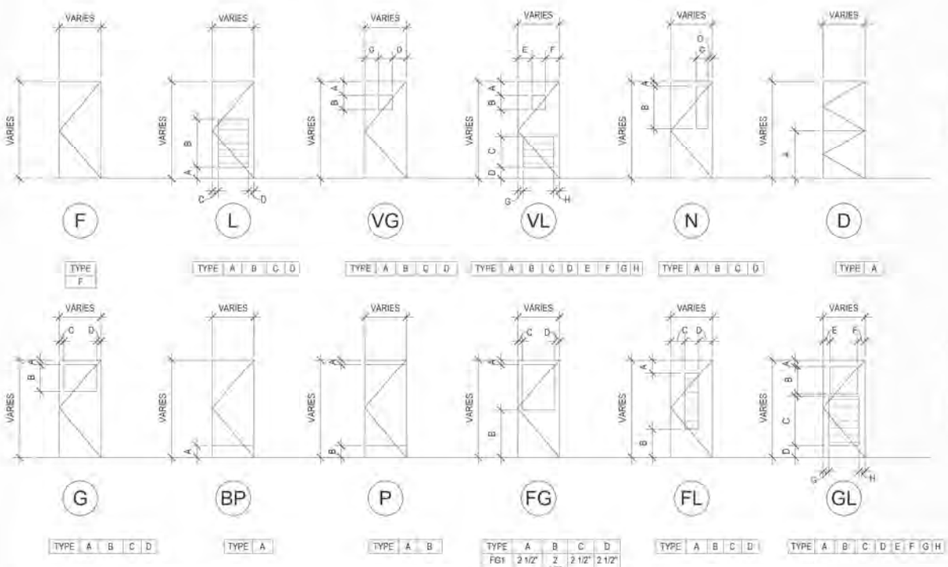
F - TYPICAL FRAME
D - DOUBLE DOOR
V - VISION LIGHT
T - TRANSOM
SL - SIDE LIGHT
M - Masonry
SG - SLIDING

WINDOW SCHEDULE

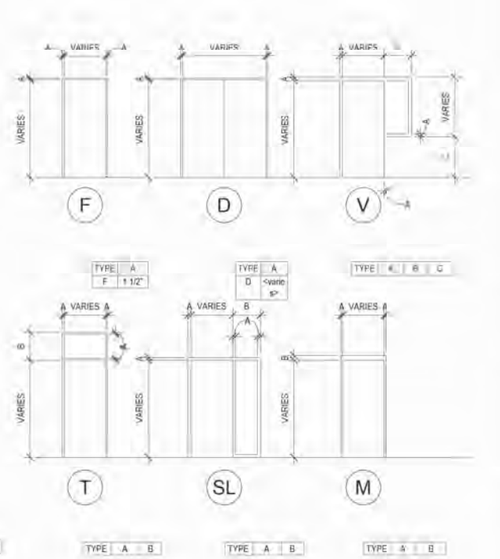
| TYPE MARK | WIDTH | HEIGHT | DESCRIPTION | COMMENTS |
|---|---|---|---|---|
| TYPE MARK | WIDTH | HEIGHT | DESCRIPTION | COMMENTS |
| (E)C | 3' | 9'-6" | FIXED FRAME WINDOW | 1/4" CLEAR PLATE GLASS |
| (E)C | 2'-8" | 9'-8" | FIXED FRAME WINDOW | 1/4" BRONZE PLATED GLASS |
| (E)D | 3'-0" | 9'-8" | FIXED FRAME WINDOW | 1/4" BRONZE PLATED GLASS |
| (E)G | 1'-0" | 5'-3" | FIXED FRAME WINDOW | 1/4" CLEAR PLATED GLASS |
| (E)H | 2'-7" | 9'-8" | FIXED FRAME WINDOW | 1/4" CLEAR PLATED GLASS |
| (E)I | 2'-7" | 5'-3" | FIXED FRAME WINDOW | 1/4" CLEAR PLATED GLASS |
| A | 4'-6" | 8'-6" | FIXED FRAME WINDOW | KAWNEER 1600 OR EQ, WITH 1/2" VE1-48 INFILL GLAZING AND 3 COAT KYNAR FINISH |
| E | 2'-0" | 8'-8" | FIXED FRAME WINDOW | KAWNEER 1600 OR EQ, WITH 1/2" VE1-48 INFILL GLAZING AND 3 COAT KYNAR FINISH |
| F | 2'-8 5/8" | 8'-8" | FIXED FRAME WINDOW | KAWNEER 1600 OR EQ, WITH 1/2" VE1-48 INFILL GLAZING AND 3 COAT KYNAR FINISH |

NOTES

1) ALL EXTERIOR WINDOWS ARE TO BE REGLAZED WITH VE1-49 (VIRACON) INSULATED GLASS UNITS




DOOR PANELS




DOOR FRAMES

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CITY OF GOLETA

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Architect: kpff

Consultant: URBAN STUDIO

Consultant: INTERFACE ENGINEERING

Consultant: JENSEN HUGHES

Issued For:

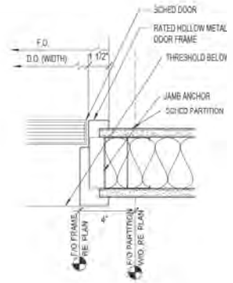
| No | Description | Date |
|---|---|---|
| | 100% SCHEMATIC DESIGN | 11 OCT 2024 |
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | 60% CONSTRUCTION DOCUMENT | 07 MAR 2025 |
| | ISSUED FOR PERMIT | 26 MAR 2025 |

Seal & Signature: LICENSED ARCHITECT JEFFREY M. JACOBS C-30356 STATE OF CALIFORNIA

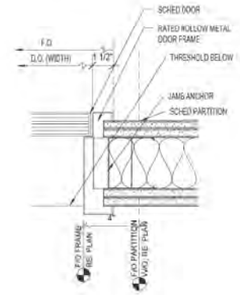
Sheet Name: DOOR SCHEDULE

Project No.: 2410
Drawn By: Author
Checked By: Checker
Scale: 1/4" = 1'-0"

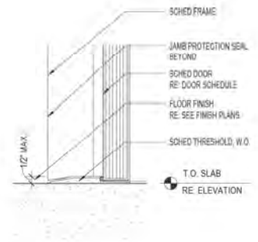
Sheet No.: A900



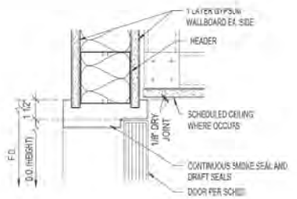

1HR/NON RATED DOOR JAMB, TYP 12
SCALE: 3" = 1'-0"



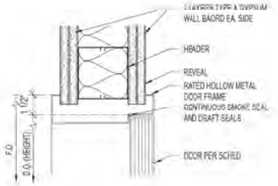

2HR/NON RATED DOOR JAMB, TYP 08
SCALE: 3" = 1'-0"



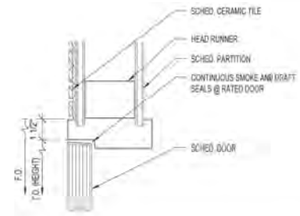

TYPICAL SILL 04
SCALE: 3" = 1'-0"



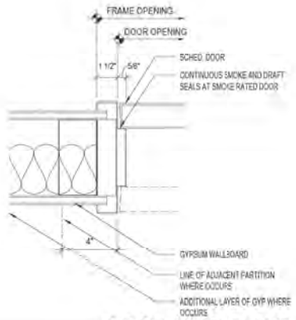

1HR/NON RATED DOOR HEAD, TYP 11
SCALE: 3" = 1'-0"



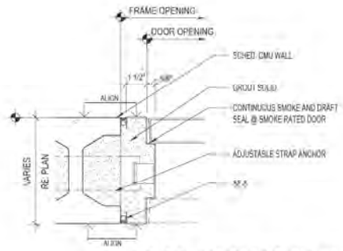

2HR/NON RATED DOOR HEAD, TYP 07
SCALE: 3" = 1'-0"



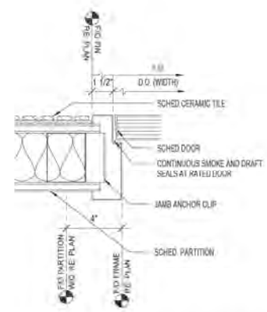

TYP. TOILET ROOM DOOR HEAD 03
SCALE: 3" = 1'-0"



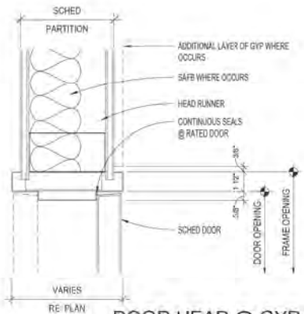

DOOR JAMB @ GYP. BD 10
SCALE: 3" = 1'-0"



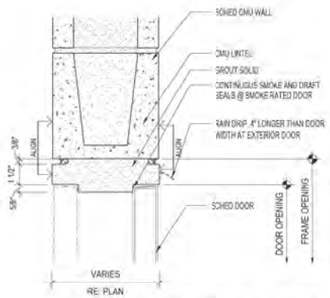

DOOR JAMB @CMU 06
SCALE: 3" = 1'-0"



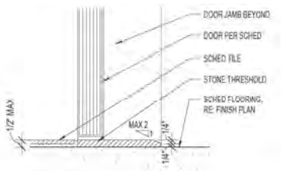

TYP. DOOR JAMB @TOILET ROOM 02
SCALE: 3" = 1'-0"




DOOR HEAD @ GYP. BD 09
SCALE: 3" = 1'-0"




TYP. DOOR HEAD @CMU 05
SCALE: 3" = 1'-0"




DOOR THRESHOLD @TILE TYPE 01
SCALE: 3" = 1'-0"

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kpff

Civil:
LUCIDO

Landscape:
INTERFACE ENGINEERING

Consultants:
JENSEN HUGHES

Issued For:

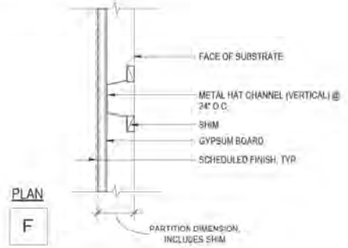
| No | Description | Date |
|---|---|---|
| | 100% SCHEMATIC DESIGN | 11 OCT 2024 |
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | 100% CONSTRUCTION DOCUMENT | 07 MAR 2025 |
| | ISSUED FOR PERMIT | 20 MAR 2025 |

LICENSED ARCHITECT
STATE OF CALIFORNIA

DOOR DETAILS

Project No.: 24.05
Drawn By: Author
Reviewed By: Reviewer
Scale: 3" = 1'-0"

Sheet No.: A901

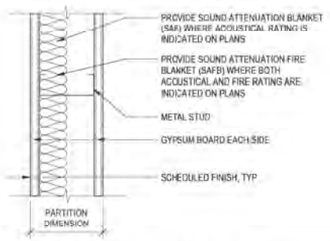



PLAN F

| WALL TYPE | CHANN EL SIZE | PARTITION DIMENSION | GAUGE |
|---|---|---|---|
| F2.0 | 7/8" | 2" | 25GA |

## 'F' PARTITION - FURRING (I) 03

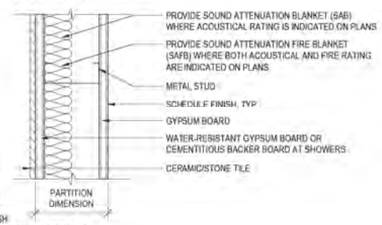
SCALE: 3" = 1'-0"




PLAN B

| WALL TYPE | STUD SIZE | PARTITION DIMENSION | PROVIDE FIRE RATING PER TEST BELOW WHERE RATING IS INDICATED ON PLANS | | PROVIDE SAB OR SAFB FOR STC WHERE ACOUSTICAL RATING IS INDICATED ON PLANS BY "A" | | 5 PSF L/240 LIMITING HEIGHTS | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | RATING | DESIGN NO. | STC @ 16" O.C. | TEST NUMBER | GAUGE | SPAN @ 16" O.C. | SPAN @ 24" O.C. |
| B3.5 | 3-5/8" | 4 7/8" (**) | <varies> | UL U442 | 48 | ESTIMATE (*) | 25 GA | 15' - 2" | 12' - 2" |

- LIMITING HEIGHTS BASED ON SSMA VALUES (2014), INTERIOR NON-STRUCTURAL COMPOSITE
- ACOUSTICAL RATING BASED ON USG VALUES (SA106/REV. 8-13, 2013)
  * ESTIMATED STC VALUES DERIVED FROM PARTITION TESTS WITH STUDS SPACED AT 24" O.C.
    TEST NO. RAL-TL-69-42 FOR PARTITIONS WITH 25 GAUGE 2 1/2" STUDS
    TEST NO. SA-879-7/17 FOR PARTITIONS WITH 25 GAUGE 3 5/8" STUDS
- REFER TO DETAIL **X/AX.XX** FOR SILL CONDITION
- REFER TO DETAILS **X/AX.XX** FOR HEAD CONDITIONS




PLAN Bf

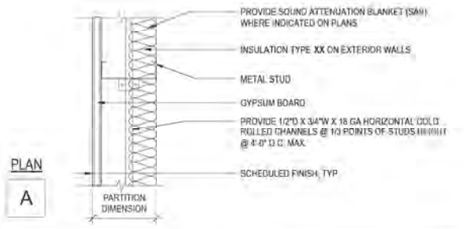
WITH FINISH:
THIN SET CERAMIC / STONE TILE

| WALL TYPE | STUD SIZE | PARTITION DIMENSION | PROVIDE FIRE RATING PER TEST BELOW WHERE RATING IS INDICATED ON PLANS | | PROVIDE SAB OR SAFB FOR STC WHERE ACOUSTICAL RATING IS INDICATED ON PLANS BY "A" | | 5 PSF L/360 LIMITING HEIGHTS | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | RATING | DESIGN NO. | STC @ 16" O.C. | TEST NUMBER | GAUGE | SPAN @ 16" O.C. | SPAN @ 24" O.C. |
| B6.5 | 3 5/8" | 4 7/8" (**) | - | UL U442 | 52 | ESTIMATE | 25 GA | 13' - 3" | 11' - 6" |
| B8.0 | 6" | 7 1/4" (**) | - | UL U442 | 50 | ESTIMATE | 20 GA | 21' - 6" | 18' - 9" |

- LIMITING HEIGHTS BASED ON SSMA VALUES (2014), INTERIOR NON-STRUCTURAL COMPOSITE
- ACOUSTICAL RATING BASED ON USG VALUES (SA200/REV. 6-06, 2006)
  * ESTIMATED STC VALUES DERIVED FROM PARTITION TESTS WITH STUDS SPACED AT 24" O.C.
    TEST NO. RAL-TL-69-42 FOR PARTITIONS WITH 25 GAUGE 2 1/2" STUDS
- REFER TO DETAIL **X/AX.XX** FOR SILL CONDITION
- REFER TO DETAILS **X/AX.XX** FOR HEAD CONDITIONS
** OVERALL DIMENSION TO FACE OF GYPSUM BOARD PLUS TILE THICKNESS DIMENSION TO BE CONFIRMED

## 'B' PARTITION - 2-SIDED (I) 02

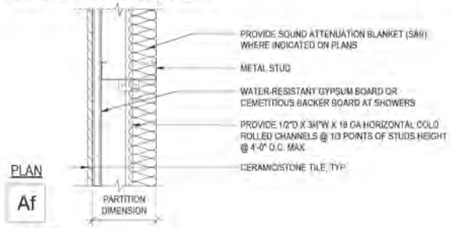
SCALE: 3" = 1'-0"




PLAN A

| WALL TYPE | STUD SIZE | PARTITION DIMENSION | PROVIDE SAB OR SAFB FOR STC WHERE ACOUSTICAL RATING IS INDICATED ON PLANS BY "A" | | 5 PSF L/240 LIMITING HEIGHTS | | |
|---|---|---|---|---|---|---|---|
| | | | STC @ 16" O.C. | TEST NUMBER | GAUGE | SPAN @ 16" O.C. | SPAN @ 24" O.C. |
| A | | | | | | | |
| A2 | 1.5" | 4 1/4" | 28 | ESTIMATE | 20 GA | | |
| A3.5 | 3 5/8" | 4 1/4" | 30 | ESTIMATE | 25 GA | 12' - 2" | 9' - 11" |
| A3.0 | 3 5/8" | 4 1/4" | 28 | ESTIMATE | 20 GA | 15' - 6" | 13' - 8" |
| A6.0 | 6" | 6 5/8" | 28 | ESTIMATE | 20 GA | 22' - 11" | 18' - 11" |

- LIMITING HEIGHTS BASED ON SSMA VALUES (2014), INTERIOR NON-STRUCTURAL NON-COMPOSITE
- REFER TO DETAIL **X/AX.XX** FOR SILL CONDITION
- REFER TO DETAILS **X/AX.XX** FOR HEAD CONDITIONS




PLAN Af

WITH FINISH:
THIN SET CERAMIC/STONE TILE

| WALL TYPE | STUD SIZE | PARTITION DIMENSION | PROVIDE SAB OR SAFB FOR STC WHERE ACOUSTICAL RATING IS INDICATED ON PLANS BY "A" | | 5 PSF L/360 LIMITING HEIGHTS | | |
|---|---|---|---|---|---|---|---|
| | | | STC @ 16" O.C. | TEST NUMBER | GAUGE | SPAN @ 16" O.C. | SPAN @ 24" O.C. |
| A3.5 | 3 5/8" | 4 1/4" (**) | 30 | ESTIMATE | 25 GA | 11' - 4" | 9' - 11" |
| A6.0 | 6" | 6 5/8" (**) | 28 | ESTIMATE | 20 GA | 20' - 0" | 17' - 6" |

- LIMITING HEIGHTS BASED ON SSMA VALUES (2014), INTERIOR NON-STRUCTURAL NON-COMPOSITE
- REFER TO DETAIL **X/AX.XX** FOR SILL CONDITION
- REFER TO DETAILS **X/AX.XX** FOR HEAD CONDITIONS
** OVERALL DIMENSION TO FACE OF GYPSUM BOARD PLUS TILE THICKNESS DIMENSION TO BE CONFIRMED

## 'A' PARTITION - 1-SIDED (I) 01

SCALE: 3" = 1'-0"

SHEET NOTES:

1. REFER TO OVERALL FLOOR PLANS AND CORE PLANS FOR PARTITION TYPES AND REQUIRED MINIMUM FIRE RATINGS AND STC RATINGS.
2. ALL GYPSUM BOARD AND STUDS ARE FULL HEIGHT, U.O.N.
3. ALL GYPSUM BOARD IS 5/8" TYP., U.O.N.
4. ALL FIRE RATED PARTITIONS TO BE TYPE 'X' GYPSUM BOARD.
5. USE WATER-RESISTANT GYPSUM BOARD ON PARTITION SCHEDULED TO RECEIVE CERAMIC TILE.
6. EXCEPTION: SHOWERS TO RECEIVE CEMENTITIOUS BACKER BOARD.
7. PARTITIONS ARE DIMENSIONED FROM FACE OF FINISH ON PLANS, U.O.N.
8. USE STUD GAUGE AND SIZE SHOWN ON BACKING PLATE DETAIL S AT LOCATION WHERE BACKING PLATES ARE REQUIRED. SEE BACKING PLATE DETAILS ON SHEET **AXX.XX**.
9. TAPE, BED, FLOAT, AND FINISH ALL GYPSUM BOARD CORNERS AND JOINTS READY FOR FINISH. FOR FINISHES REFER TO FINISH SCHEDULE.
10. HOLD GYPSUM BOARD BACK 1/4" AT ALL PERIMETER INTERSECTIONS (INCLUDING FLOOR) AND PENETRATIONS, AND CAULK GAP AIRTIGHT WITH ACOUSTICAL SEALANT FOR ALL PARTITIONS WHERE AN STC RATING IS REQUIRED.
11. PROVIDE CONTINUOUS ACOUSTICAL SEALANT AT SILL, HEAD, AND ENTIRE PERIMETER OF ALL PARTITIONS WHERE AN STC RATING IS REQUIRED.
12. PROVIDE CONTINUOUS FIRE-RATED SEALANT AT SILL AND HEAD AND ALL DUCT, PIPE, AND CONDUIT PENETRATIONS FOR ALL PARTITIONS WHERE A FIRE RATED SEPARATION IS REQUIRED.
13. PROVIDE CONTINUOUS FIRE-RATED ACOUSTICAL SEALANT AT SILL AND HEAD AND ALL DUCT, PIPE, AND CONDUIT PENETRATIONS FOR ALL PARTITIONS WHERE A FIRE RATED SEPARATION AND AN STC RATING ARE REQUIRED. HOLD GYPSUM BOARD BACK 1/4" AT ALL PERIMETER INTERSECTIONS (INCLUDING FLOOR) AND PENETRATIONS, AND CAULK GAP AIRTIGHT WITH FIRE RATED ACOUSTICAL SEALANT.
14. FIRE RATED UL ASSEMBLIES ARE BASED ON 2011 UL FIRE RESISTANCE DIRECTORY.
15. SSMA REFERS TO "STEEL STUD MANUFACTURERS ASSOCIATION". USG REFERS TO "UNITED STATES GYPSUM COMPANY".
16. PARTITION ASSEMBLIES ARE IDENTIFIED THROUGH THE FOLLOWING PARTITION TAG:

EXAMPLE: B2.0 / 1 A

- B2.0 — PARTITION DESCRIPTION:
  - TYPE: INDICATED AS TYPE "A" THROUGH "O".
  - WITH FINISH: INDICATED WITH NO CHARACTER FOR STANDARD PARTITION; OR "I" FOR ADDITIVE FINISH (THIN SET CERAMIC /STONE TILE); OR "H" FOR ELEVATOR HOISTWAY (10 PSF LATERAL LOADING)
  - STUD SIZE: INDICATED AS "0" FOR 0 7/8" FURRING CHANNELS; "1" FOR 1 5/8" STUDS; "2" FOR 2 1/2" STUDS; "3" FOR 3 5/8" STUDS; "4" FOR 4" STUDS; "6" FOR 6" STUDS
  - STUD GAUGE: INDICATED AS ".5" FOR 25 GAUGE; ".0" FOR 20 GAUGE; ".8" FOR 18 GAUGE
- 1 — FIRE RATING REQUIRED, INDICATED IN HOURS
- A — ACOUSTIC RATING REQUI INDICATED BY "A"

17. "+" SYMBOL FOLLOWING PARTITION TYPE DESIGNATION INDICATES ONE EXTRA LAYER OF GYPSUM BOARD ON ONE SIDE OF PARTITION. (PARTITION TAG IS LOCATED ON FLOOR PLANS ADJACENT TO SIDE OF PARTITION TO RECEIVE EXTRA LAYER OF GYPSUM BOARD.)
18. "++" SYMBOL FOLLOWING PARTITION TYPE DESIGNATION INDICATES ONE EXTRA LAYER OF GYPSUM BOARD ON BOTH SIDES OF PARTITION.
19. PROVIDE SOUND ATTENUATION BLANKET (SAB) OR SOUND ATTENUATION FIRE BLANKET (SAFB) AS REQUIRED FOR SCHEDULED ASSEMBLY TO OBTAIN STC RATING AND/OR FIRE RATING WHERE SHOWN AND TAGGED ON FLOOR PLANS.

| SOUND ATTENUATION BLANKET SCHEDULE FOR ACOUSTIC PARTITIONS | | |
|---|---|---|
| SAB (") THICKNESS | STUD SIZE | REMARK |
| 1-1/2" * | 1-5/8" | * SAFB AT FIRE RATED PARTITION |
| 2" * | 2-1/2" | * SAFB AT FIRE RATED PARTITION |
| 3" (**) | 3-5/8" AND ABOVE | * SAFB AT FIRE RATED PARTITION |

** 3" MINIMUM BLANKET THICKNESS FOR LARGER STUD SIZES, USE THICKER BLANKET TO FILL STUD CAVITY SPACE.

20. ESTIMATED STC VALUES FOR ACOUSTIC RATINGS DERIVED FROM TEST REFERENCES LISTED IN USG SA200/REV. 6-06, 2006 AS BASELINE (TEST PARTITIONS TYPICALLY CONSTRUCTED WITH 25 GAUGE STUDS SPACED AT 24" O.C.) WITH 1 STC POINT DEDUCTED FOR STUD SPACING DECREASING FROM 24" O.C. TO 16" O.C., AND 2 STC POINTS DEDUCTED FOR STUD GAUGE INCREASING FROM 25 GA TO 20 GA.

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Structural: kpff

Civil: UPLAND PLANNING + DESIGN STUDIO

Landscape: INTERFACE ENGINEERING

Acoustical: JENSEN HUGHES

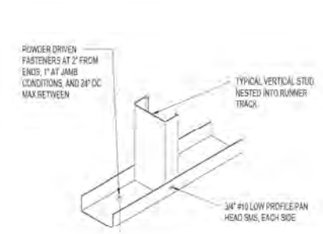
| No | Description | Date |
|---|---|---|
| | 100% SCHEMATIC DESIGN | 11 OCT 2024 |
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | 60% CONSTRUCTION DOCUMENT | 07 MAR 2025 |
| | ISSUED FOR PERMIT | 26 MAR 2025 |

LICENSED ARCHITECT — STATE OF CALIFORNIA

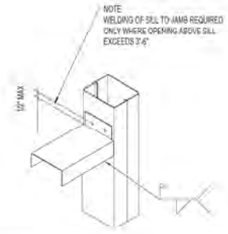
PARTITION TYPES

Project No.: 24.01
Drawn By: Author
Checked By: Checker
Scale: 3" = 1'-0"

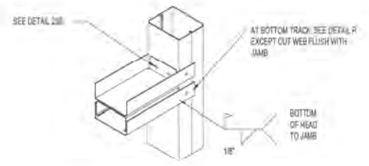
Sheet No.: A910



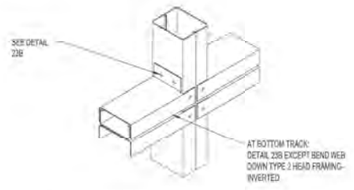

(F) BOTTOM TRACK - SINGLE STUD



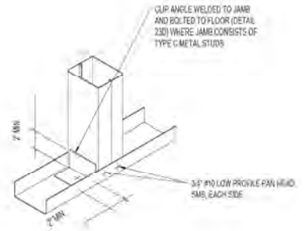

(Q) SILL - SINGLE STUD
HEADER SPAN: LESS THAN 3'-0"



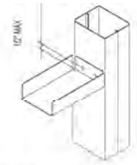

(B) HEAD - DOUBLE STUD
HEADER SPAN: 3'-6" - 8'-0"



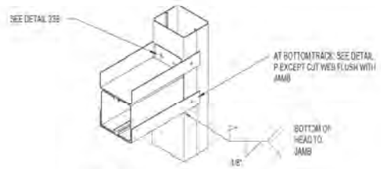

(G) COLUMN STUDS AT
PARTIAL HEIGHT HEAD



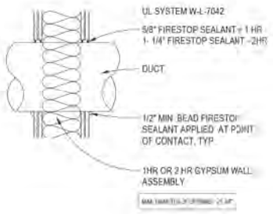

(E) BOTTOM TRACK - DOUBLE STUD



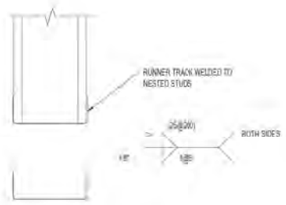

(C) HEAD - SINGLE STUD
HEADER SPAN: LESS THAN 3'-0"



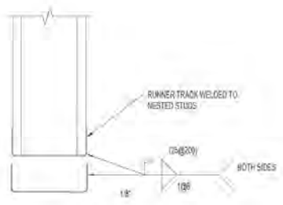

(A) HEAD - DOUBLE STUD
HEADER SPAN: 8'-0" - 12'-0"



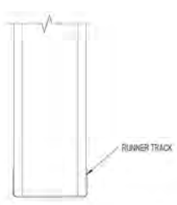

DUCT @ RATED GWB 03
SCALE: 1 1/2" = 1'-0"



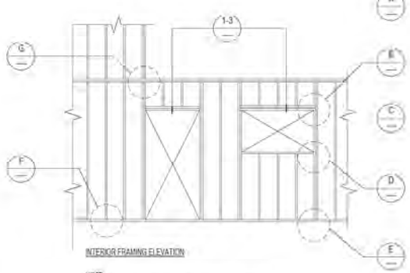

(3) HEAD OPENING 8'-0" TO 12'-0"




(2) HEAD OPENING 3'-6" TO 8'-0"




(1) HEAD OPENING LESS THAN 3'-0"



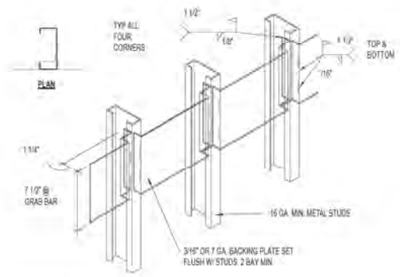

NOTE:
FOR ALL METAL STUD FRAMING, ISOLATE FRAMING FROM TRANSFER OF STRUCTURAL LOADING TO FRAMING

TYPICAL FRAMING DETAILS 02
SCALE: 1/2" = 1'-0"

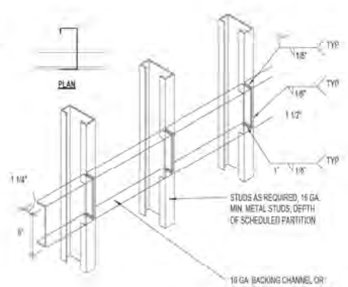
| BACKING PLATE TYPE | EQUIPMENT | MOUNTING SCREWS |
|---|---|---|
| TYPE 'A' | TOILET ACCESSORIES AND ALL ITEMS NOT INDICATED IN THIS SCHEDULE | #10 SELF-TAPING SCREWS |
| TYPE 'B' | BASE CABINETS | #12 SELF-TAPING SCREWS |
| TYPE 'C' | WALL HUNG CABINETS, WALL HUNG EQUIPMENT, ACCESS LADDERS, LOCKERS, SHELVES, WALL HUNG ARTWORK | #14 SELF-TAPING SCREWS |
| TYPE 'D' | GRAB BARS, HANDRAILS | SEE DETAIL |

NOTES, U.N.O.:

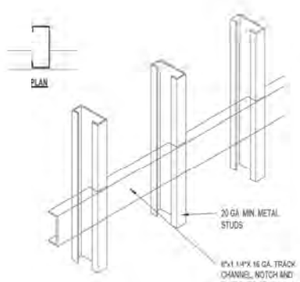
1 FLANGES OF STUDS SHALL NOT BE CUT.
2 HEIGHT OF BACKING PL. TO BE AS SHOWN FOR PROPER MOUNTING OF EQUIPMENT.



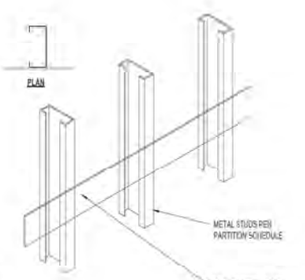

(D) BACKING PLATE TYPE 'D'




(C) BACKING PLATE TYPE 'C'




(B) BACKING PLATE TYPE 'B'




(A) BACKING PLATE TYPE 'A'

BLOCKING PLATE DETAILS 01
SCALE: 1/2" = 1'-0"

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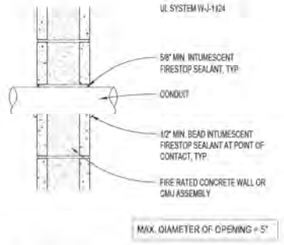
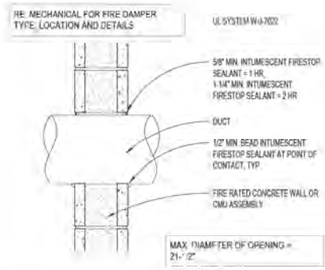



CONDUIT @CMU RATED WALL 14
SCALE: 1 1/2" = 1'-0"




DUCT @ RATED CMU/ CONC WALL 04
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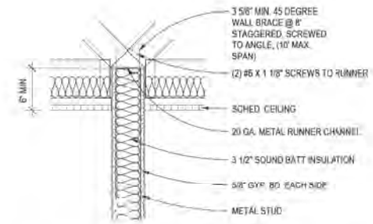


TYP. ACOUSTIC PARTITION BRACING 03
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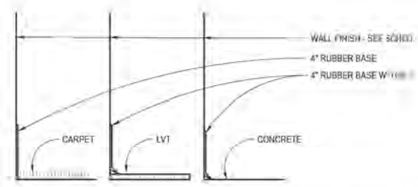
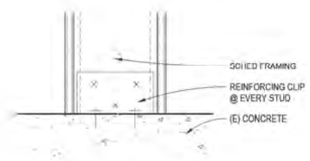



TYP. RUBBER WALL BASE 02
SCALE: 3" = 1'-0"




PARTIAL HEIGHT PARTITION BASE 01
SCALE: 3" = 1'-0"

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Sheet Name:
PARTITION DETAILS

Project No.: 24.05
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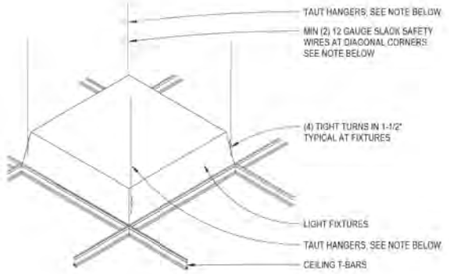
Sheet No.: A912

## GENERAL NOTES FOR CEILING

1. SUSPENDED CEILING TO BE DESIGNED IN ACCORDANCE WITH ASCE 7-05 SECTION 13.5.6; ASTM C636 AND CISCA FOR SEISMIC ZONES 3-4 WITH ADDITIONAL MODIFICATIONS SUGGESTED IN ASCE 7-05, SECTION 13.5.6.2.2.
2. SEISMIC BRACING OF THE CEILING TO BE DESIGNED IN ACCORDANCE WITH REQUIREMENTS OF THE SPECIFICATION SECTION 01 43 00.
3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY MEMBERS AT OBSTRUCTIONS TO MAIN HANGER SPACING.
4. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS.
5. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB SHALL BE PROVIDED WITH COUNTER-SLOPING WIRES.
6. SEPARATE ALL HANGER AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC.
7. IN SUSPENDED ACOUSTICAL BOARD CEILINGS, WHERE LIGHT FIXTURES OR DIFFUSERS ARE NOT SUPPORTED DIRECTLY ON MAIN OR CROSS RUNNERS, PROVIDE SUPPLEMENTAL FRAMING THAT IS SUPPORTED BY MAIN RUNNERS
8. IN GYPSUM BOARD CEILING, ALL FIXTURES AND DIFFUSERS SHALL BE SUPPORTED EITHER DIRECTLY BY MAIN RUNNERS OR BY SUPLEMENTARY FRAMING THAT IS SUPPORTED BY MAIN RUNNER
9. IN SUSPENDED GYPSUM BOARD CEILINGS, SPLICE MAIN RUNNERS BY LAPPING AND INTERLOCKING FLANGES 12" MIN. AND TYING NEAR EACH END WITH DOUBLE LOOPS OF 16 GAUGE WIRE.
10. CLASSIFICATION OF CEILIGN GRID IS HEAVY DUTY.
11. WHEN DRILLED IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRE, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200LBS OF TENSION. WHEN DRILLED IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 340LBS IN TENSION. WHEN DRILLED IN ANCHOR FAILS, ALL ADJACENT ANCHORS MUST BE TESTED.
12. ALL THREADED ROD HANGERS SHALL BE 3/8" UNLESS OTHERWISE NOTED.
13. #12 GA WIRE HANGER SHALL CONFIRM TO ASTM A641.
14. #12 GA SPLAYED WIRES SHALL BE ORIENTED 90 DEGREES TO EACH OTHER.
15. COMPRESSION STRUTS SHALL NOT BE MORE THAN 1 HORIZONTAL IN 6 VERTICAL OUT OF PLUMB.

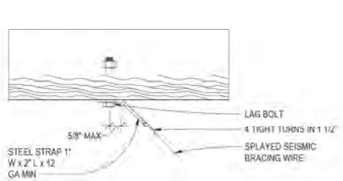



NOTES

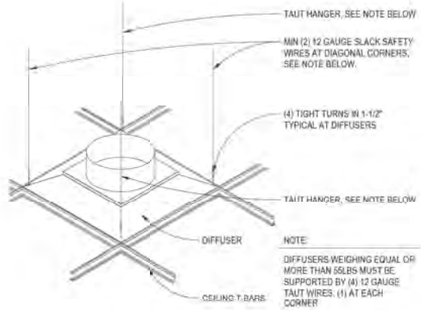
ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100 PERCENT OF THE LIGHT FIXTRURE WEIGHT ACTING IN ANY DIRECTION.

LIGHT FIXTURES WEIGHING EQUAL OR MORE THAN 56 LBS MUSTR BE SUPPORTED BY (4) 12 GAUGE TAUT WIRES, (1) AT EACH CORNER.

### LIGHT FIXTURE SUPPORT IN ACOUSTICAL CEILING 04
SCALE: 3" = 1'-0"



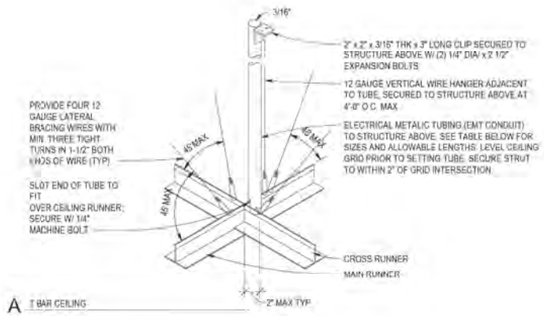

### BRACING WIRE ATTACHMENT TO STRUCTURE ABOVE 06
SCALE: 3" = 1'-0"



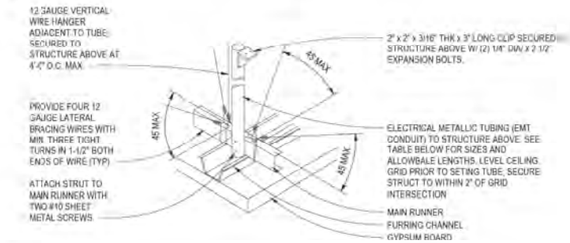

NOTE:

DIFFUSERS WEIGHING EQUAL OR MORE THAN 56LBS MUST BE SUPPORTED BY (4) 12 GAUGE TAUT WIRES, (1) AT EACH CORNER

### DIFFUSER MOUNT IN ACOUSTICAL CEILING 03
SCALE: 3" = 1'-0"




A T BAR CEILING



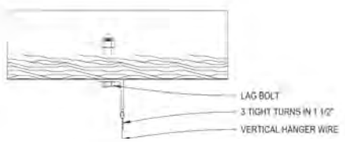

B GYPSUM BOARD CEILING

DETAIL NOTES:

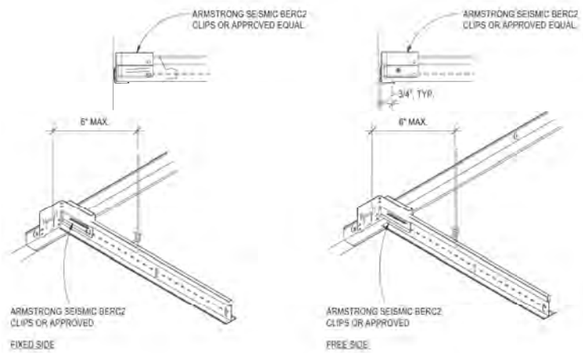
1. CONNECTIONS TO OVERHEAD STRUCTURE: ALL HANGER SPLAYED BRACING WIRES SHALL BE FIRMLY ANCHORED TO OVERHEAD SUPPORT WITH A MIN. OF (3) TURNS. CONNECTION DEVICES SHAL HAVE A CAPACITY OF 100LBS MIN.; BRACING OCCURS AT 12'-0" O.C. EACH DIRECTION., TYP.
2. ALL STRUT MATL TO HAVE A SLENDERNESS RATIO OF KL/R=200 MAX.
3. PROVIDE CROSS RUNNERS MAY BE SECURED TO WALL ANGLES ON TWO ADJACENT SIDES OF ROOM ONLY.
4. REFER TO DETAIL 30/- & 36/- FOR ATTACHMENT FOR BRACING WIRE TO STRUCTURAL SLABE ABOVE.

| MAX. HEIGHT | STRUT SIZE/MATL |
|---|---|
| UP TO 4'-0" | 3/4" DIA EMT |
| UP TO 6'-0" | 1" DIA EMT |
| UP TO 7'-0" | 2 1/2" X 22 GAUGE STEEL STUD |

### COMPRESSION STRUT @ SUSPENDED CEILING 01
SCALE: 3" = 1'-0"




### VERTICAL HANGER WIRE TO STRUCTURE ABOVE 05
SCALE: 1" = 1'-0"




### ACT CEILING TO WALL 02
SCALE: 3" = 1'-0"

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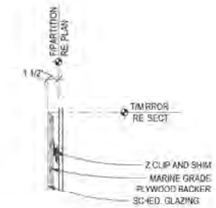


SECTION @ T/ MIRROR 04
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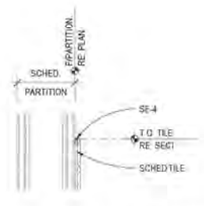


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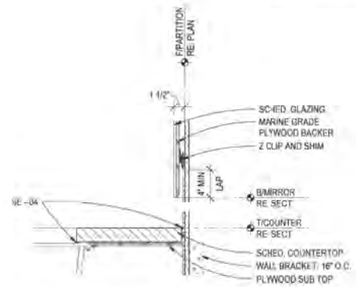


SECTION DETAIL @ B/ MIRROR 03
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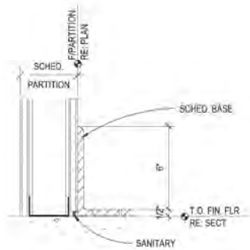


BASE DETAIL @ GWB WALL 22
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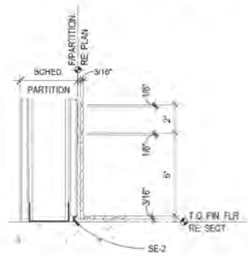


BASE DETAIL @ TILE WALL 12
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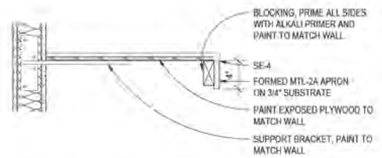


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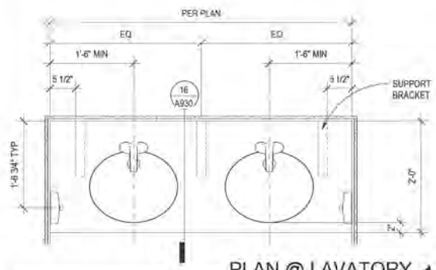


PLAN @ LAVATORY 11
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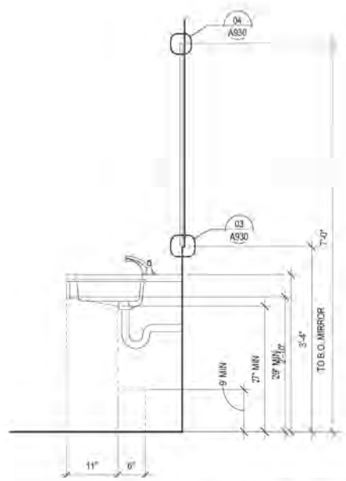


SECTION @ LAVATORY 01
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## SYMBOLS

SECTION REFERENCE BUBBLE

DETAIL REFERENCE BUBBLE WITH ARROW

DETAIL REFERENCE BUBBLE

FULL HEIGHT SECTION INDICATOR

BUILDING SECTION INDICATOR

ELEVATION OF WALL OR FRAME

NORTH ARROW

SLOPE

EARTH LAYER

STEPPED SURFACE: FLOOR DEPRESSION

SLOPED SURFACE

INDICATES SAND OR GROUT

INDICATED GRAVEL

WELDED WIRE FABRIC (WWF LAYER)

STEEL TUBE COLUMN

STEEL PIPE COLUMN

WIDE FLANGE STEEL COLUMN

MEMBER SPLICE

STEEL IN CROSS SECTION

DIRECTION OF SPAN

## ABBREVIATIONS

| | |
|---|---|
| LAB | LABORATORY |
| LB(S) OR # | POUND(S) |
| LF | LINEAL FOOT |
| LIN | LINEAL, LINEAR |
| LLBB | LONG LEGS BACK-TO-BACK |
| LLH | LONG LEG HORIZONTAL |
| LLV | LONG LEG VERTICAL |
| LP | LOW POINT |
| LSL | LONG SLOTTED HOLES |
| LT WT | LIGHTWEIGHT |
| LVL | LEVEL |
| MAS | MASONRY |
| MATL | MATERIAL |
| MAX | MAXIMUM |
| MB | MACHINE BOLT |
| MC | MISCELLANEOUS CHANNEL SHAPE |
| MECH | MECHANICAL |
| MFR | MANUFACTURER |
| MIN | MINIMUM; MINUTE |
| MISC | MISCELLANEOUS |
| (N) | NEW |
| N | NORTH |
| NF | NEAR FACE |
| NIC | NOT IN CONTRACT |
| NORM | NORMAL |
| NO or # | NUMBER |
| NS | NEAR SIDE |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OF | OUTSIDE FACE |
| OH | OPPOSITE HAND |
| OPNG | OPENING |
| OPP | OPPOSITE |
| ORIG | ORIGINAL |
| OSB | ORIENTED STRAND BOARD |
| PARA OR // | PARALLEL |
| PC | PRECAST PIECE |
| PERP | PERPENDICULAR |
| PI | PLYWOOD INDEX |
| PL | PLATE |
| PL | PROPERTY LINE |
| PLF | POUNDS PER LINEAL FOOT |
| PLCS | PLACES |
| PLY | PLYWOOD |
| PROP | PROPERTY |
| PT | POST TENSIONED |
| PW | PLATE WASHER |
| PJP | PARTIAL JOINT PENETRATION WELD |
| PREFAB | PREFABRICATED |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PVC | POLYVINYL CHLORIDE |
| PVMT | PAVEMENT |
| # | POUND; NUMBER |
| REF | REFERENCE |
| REINF | REINFORCE; REINFORCING |
| REQD | REQUIRED |
| RF | ROOF |
| R | RADIUS |
| SCHED | SCHEDULE |
| SECT | SECTION |
| SEP | SEPERATION |
| SHT | SHEET |
| SHTG | SHEATHING |
| SIM | SIMILAR |
| SLBB | SHORT LEGS BACK-TO-BACK |
| SOG | SLAB ON GRADE |
| SPCG | SPACING |
| SPECS | SPECIFICATIONS |
| SPCL | SPECIAL |
| SQ | SQUARE |
| SS | SELECT STRUCTURAL |
| SSL | SHORT SLOTTED HOLES |
| STAGG | STAGGER |
| STD | STANDARD |
| STIFF | STIFFENERS |
| STIRR | STIRRUP |
| STL | STEEL |
| STRUCT | STRUCTURAL |
| STRUCT I | STRUCTURAL I |
| SW | SHEAR WALL |
| SYM | SYMMETRICAL |
| TB | TIE BEAM |
| T & B | TOP AND BOTTOM |
| T & G | TONGUE & GROOVE |
| TOC | TOP OF CURB; TOP OF CONCRETE |
| TOF | TOP OF FOOTING |
| TEMP | TEMPERATURE; TEMPORARY |
| THRU | THROUGH |
| THK | THICKNESS/THICK |
| THR | THREADED |
| TOP or T | TOP |
| TOS | TOP OF STEEL/TOP OF SLAB |
| TOW | TOP OF WALL |
| TSG | TAPERED STEEL GIRDER |
| TYP | TYPICAL |
| UBC | UNIFORM BUILDING CODE |
| UNO | UNLESS NOTED OTHERWISE |
| UT | ULTRA-SONIC TEST |
| VERT | VERTICAL |
| VSH | VERTICAL SLOTTED HOLES |
| V.I.F. | VERIFY IN FIELD |
| W/ | WITH |
| W/O | WITHOUT |
| WD | WOOD |
| WP | WORK POINT; WATERPROOF |
| WT | WEIGHT |
| WWF | WELDED WIRE FABRIC |

STRUCTURAL STEEL SHAPES

| | |
|---|---|
| Wx | W SHAPE |
| Cx | AMERICAN STC CHANNEL SHAPE |
| MC | MISC CHANNEL SHAPE |
| Lx | ANGLE SHAPE |
| WT, ST, MT | STRUCT TEE SHAPE |
| PIPE | STANDARD PIPE SHAPE |
| PIPE-X | EXTRA STRONG PIPE SHAPE |
| PIPE-XX | DBL EXTRA STRONG PIPE SHAPE |
| HSS | STRUCT TUBING SHAPE |

| | |
|---|---|
| AB | ANCHOR BOLT |
| ACI | AMERICAN CONCRETE INSTITUTE |
| ADDL | ADDITIONAL |
| ADJ | ADJACENT |
| AESS | ARCHITECTURAL EXPOSED STRUCTURAL STEEL |
| AGGR | AGGREGATE |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| ALT | ALTERNATE |
| ALUM | ALUMINUM |
| ANCH | ANCHOR |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE |
| APA | AMERICAN PLYWOOD ASSOCIATION |
| APPVD | APPROVED |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECTURAL; ARCHITECT |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS |
| AWPA | AMERICAN WOOD PRESERVERS ASSOCIATION |
| AWS | AMERICAN WELDING SOCIETY |
| AITC | AMERICAN INSTITUTE OF TIMBER CONSTRUCTION |
| ASTM | AMERICAN SOCIETY FOR TESTING MATERIALS |
| & | AND |
| @ | AT |
| BLDG | BUILDING |
| BLK | BLOCK |
| BLKG | BLOCKING |
| BM | BEAM |
| BN | BOUNDARY NAIL |
| BNDRY | BOUNDARY |
| BOT OR B | BOTTOM |
| BRC | BRACE |
| BRG | BEARING |
| BT | BENT |
| BTWN | BETWEEN |
| CANT | CANTILEVER |
| CAM OR C | CAMBER |
| CC | CENTER TO CENTER |
| CG | CENTER OF GRAVITY |
| CIP | CAST-IN-PLACE |
| CJ | CONSTRUCTION JOINT; CONTROL JOINT |
| CL | CENTER LINE |
| CLR | CLEARANCE; CLEAR |
| CMU | CONCRETE MASONRY UNIT |
| COL | COLUMN |
| COMP | COMPRESSION |
| CONC | CONCRETE |
| CONN | CONNECTION; CONNECT |
| CONSTR | CONSTRUCTION |
| CONT | CONTINUE; CONTINUOUS |
| CONTR | CONTRACTOR |
| CJP | COMPLETE JOINT PENETRATION WELD |
| CTR | CENTER |
| CTSK | COUNTERSINK; COUNTERSUNK |
| CU FT | CUBIC FOOT |
| d | PENNY (NAIL OR BAR DIA) |
| DBL | DOUBLE |
| DEPT | DEPARTMENT |
| DET | DETAIL |
| DF | DOUGLAS FIR-LARCH |
| DIA OR ø | DIAMETER |
| DIAG | DIAGONAL |
| DIAPH | DIAPHRAGM |
| DIM | DIMENSION |
| DN | DOWN |
| DO | DITTO (REPEAT) |
| DWG | DRAWING |
| DWL | DOWEL |
| EA | EACH |
| EF | EACH FACE |
| EJ | EXPANSION JOINT |
| EL | ELEVATION |
| ELEC | ELECTRICAL |
| ELEV | ELEVATOR |
| EMBED | EMBEDMENT |
| EN | EDGE NAIL |
| ENGR | ENGINEER |
| EQ | EQUAL OR EQUIVALENT |
| EQUIP | EQUIPMENT |
| ES | EACH SIDE |
| ETC | ET CETERA |
| EW | EACH WAY |
| EXIST or (E) | EXISTING |
| EXT | EXTERIOR |
| FDN | FOUNDATION |
| FF | FAIR FACE |
| FF | FINISHED FLOOR |
| FIN | FINISH |
| FJ | FLOOR JOIST |
| FL | FLOOR LINE |
| FLG | FLANGE |
| FLR | FLOOR |
| FN | FIELD NAIL |
| FOC | FACE OF CONCRETE |
| FOM | FACE OF MASONARY |
| FOS | FACE OF STUD |
| FOW | FACE OF WALL |
| FP | FULL PENETRATION; FIRE PROOFING |
| FRMG | FRAMING |
| FS | FULL SIZE; FAR SIDE |
| FT | FOOT; FEET |
| FTG | FOOTING |
| GA | GAUGE |
| GALV | GALVANIZED |
| GB | GRADE BEAM |
| GLB | GLUED LAMINATED BEAM |
| GR | GRADE |
| GRND | GROUND |
| H or HORIZ | HORIZONTAL |
| HDR | HEADER |
| HGR | HANGER |
| HOSP | HOSPITAL |
| HP | HIGH POINT |
| HS | HIGH STRENGTH |
| HSH | HORIZONTALLY SLOTTED HOLES |
| HT | HEIGHT |
| HR | HARD ROCK |
| ID | INSIDE DIAMETER |
| IF | INSIDE FACE |
| I-JST | I-JOIST |
| IN | INCH |
| INCL | INCLUDE |
| INFO | INFORMATION |
| INSP | INSPECTION |
| INT | INTERIOR |
| JST | JOIST |
| JT | JOINT |
| K | KIPS |
| KSI | KIPS PER SQUARE INCH |

## SHEET INDEX

| SHEET NUMBER | SHEET NAME |
|---|---|
| S000 | SHEET INDEX, ABBREVIATIONS AND SYMBOLS |
| S001 | GENERAL STRUCTURAL NOTES |
| S200 | FIRST FLOOR PLAN |
| S201 | ROOF PLAN |
| S600 | TYPICAL CONCRETE DETAILS |
| S700 | TYPICAL STEEL DETAILS |
| S800 | TYPICAL WOOD DETAILS |

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SHEET INDEX, ABBREVIATIONS AND SYMBOLS

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## WOOD

1. COMPLY WITH THE REQUIREMENTS IN CHAPTER 23 OF THE CODE AND ANSI/AWC WCD 1 "DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION," UNLESS OTHERWISE INDICATED.
2. STUD WALLS SHOWN ON PLANS ARE NONBEARING PARTITIONS WALLS, BEARING WALLS OR SHEAR WALLS BELOW THE FRAMING LEVEL, UNLESS NOTED OTHERWISE. STUDS SHALL BE SIZE AND SPACING AS NOTED IN THE DRAWINGS, SEE PLANS AND ARCHITECTURAL DRAWINGS. UNLESS OTHERWISE NOTED, STUD WALLS SHALL BE 2 X 4 AT 16" OC
3. DIMENSIONAL LUMBER FRAMING:
   A. SPECIES, GRADE, AND MOISTURE CONTENT NOTED BELOW:

| DIMENSIONAL LUMBER | | | |
|---|---|---|---|
| USE | SPECIES | GRADE | MOISTURE CONTENT |
| LUMBER 2" TO 4" THICK x 5" OR WIDER (JOISTS/RAFTERS) | DOUGLAS FIR-LARCH | #2 & BETTER | KD (15%) |
| LUMBER 2" TO 3" THICK x 4" TO 6" WIDE (STUDS) | DOUGLAS FIR-LARCH | #2 & BETTER | KD (15%) |
| LUMBER 5x5 AND GREATER (BEAMS) | DOUGLAS FIR-LARCH | #1 | S-DRY (19%) |
| LUMBER 5x5 AND GREATER (POSTS) | DOUGLAS FIR-LARCH | #1 | S-DRY (19%) |

4. ENGINEERED WOOD PRODUCTS:
   A. STRUCTURAL COMPOSITE LUMBER MADE FROM WOOD VENEERS WITH GRAIN PRIMARILY PARALLEL TO MEMBER LENGTHS, EVALUATED AND MONITORED ACCORDING TO ASTM D 5456 M/D MANUFACTURED WITH AN EXTERIOR-TYPE ADHESIVE COMPLYING WITH ASTM D 2559. PROVIDE PRODUCTS THAT CONFORM TO THE FOLLOWING MINIMUM DESIGN STRESS:

| STRUCTURAL COMPOSITE LUMBER | | | |
|---|---|---|---|
| PRODUCT TYPE & USE | FLEXURAL STRESS, $F_b$ | SHEAR STRESS, $F_v$ | MODULUS OF ELASTICITY |
| LAMINATED VENEER LUMBER (LVL) | 2,600 psi | 285 psi | $2.0 \times 10^6$ psi |
| PARALLEL STRAND LUMBER (PSL) | | | |
| BEAM | 2,900 psi | 290 psi | $2.0 \times 10^6$ psi |
| COLUMN | 2,485 psi | 190 psi | $1.9 \times 10^6$ psi |
| LAMINATED STRAND LUMBER (LSL) | | | |
| BEAM | 3,325 psi | 310 psi | $1.55 \times 10^6$ psi |
| COLUMN | 1,700 psi | 425 psi | $1.3 \times 10^6$ psi |

5. FASTENERS:
   A. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, PRESERVATIVE TREATED, FIRE RETARDANT TREATED, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153
   B. NAILS: ASTM F1667, COMMON TYPE.
6. WOOD CONNECTORS:
   A. PROVIDED BASIS OF DESIGN HANGERS, STRAPS, TIES, HOLD DOWNS, ETC. AS INDICATED ON THE DRAWINGS
   B. WHERE CONNECTORS ARE IN EXPOSED, EXTERIOR APPLICATIONS OR IN CONTACT WITH PRESERVATIVE TREATED LUMBER, PROVIDE HOT-DIP GALVANIZED OR STAINLESS STEEL CONNECTORS.
7. ALL LUMBER IN 2-HOUR FIRE RATED WALLS AND 3-HOUR FIRE SEPARATION WALLS SHALL USE FIRE RETARDANT TREATED WOOD PER CBC SECTION 2303.2. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL LOCATIONS AND DETAILS.
8. WHERE POSTS OR MULTIPLE STUDS UNDER BEAMS OR HEADERS ARE CALLED FOR ON DRAWINGS THOSE POSTS OR MULTIPLE STUDS SHALL BE CARRIED TO THE FOUNDATION/PODIUM LEVEL(S) N.O.
9. JOIST BLOCKING AND BRIDGING:
   A. PROVIDE FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT AND BELOW PARTITION WALLS
   B. PROVIDE FULL DEPTH BRIDGING AT 8'-0" O.C. MAX. NOT MORE THAN 8'-0" FROM SUPPORT
10. PROVIDE DOUBLE JOISTS UNDER NON-BEARING WALLS RUNNING PARALLEL TO JOISTS.
11. PROVIDE REQUIRED FIRE STOPPING, BACKING FOR INTERIOR FINISHES, NONBEARING WALLS, AND OTHER NON-STRUCTURAL FRAMING THAT ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
12. ALL STRUCTURAL PLYWOOD SHEATHING SHALL BE DOUGLAS FIR STANDARD GRADE STRUCTURAL I WITH EXTERIOR GLUE CONFORMING TO THE LATEST EDITION OF PS1-09, ALL PANELS SHALL BEAR LEGIBLE DFPA STAMPS.
13. ORIENTED STRAND BOARD (OSB) MAY BE SUBSTITUTED FOR PLYWOOD PROVIDED IT HAS THE SAME APA PERFORMANCE STANDARD RATING AND CONTAINS THE SAME NUMBER OF LAYERS AS THE PLYWOOD SPECIFIED.
14. ALL SHEATHING SHALL BE LAID FACE GRAIN PERPENDICULAR TO FRAMING AND SHALL BE APPROVED BY THE BUILDING INSPECTOR BEFORE COVERING.
15. ALL NAILING/SCREWING SHALL CONFORM TO THE APPLICABLE BUILDING CODE AND REGULATIONS.
16. ALL BOLT HOLES SHALL BE DRILLED 1/32" TO 1/16" OVERSIZED AND SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO COVERING.
17. UNLESS OTHERWISE NOTED, ALL WOOD SILL PLATE UNDER BEARING, EXTERIOR OR SHEAR WALLS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED AND BOLTED TO CONCRETE OR MASONRY WITH ANCHORS AS INDICATED ON THE DRAWINGS.
18. ALL BOLT HEADS AND NUTS WHICH BEAR AGAINST THE FACE OF WOOD MEMBERS SHALL BE PROVIDED WITH METAL WASHERS (1/4"x3"x3" MIN).
19. ALL 1/2" DIAMETER AND LARGER BOLTS CALLED OUT ON DRAWINGS INCLUDING ANCHOR BOLTS (A.B.) SHALL HAVE STEEL SQUARE PLATE WASHERS AS LISTED BELOW UNDER THE HEAD AND/OR NUT BEARING ON WOOD. (ALL ANCHOR BOLTS SHALL BE 12" LONG, UNLESS NOTED OTHERWISE.

| BOLT DIAMETER | 1/2" | 5/8" | 3/4" | 7/8" | 1" |
|---|---|---|---|---|---|
| WASHER - THICKNESS | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" |
| WASHER - WIDTH | 2 1/2" | 2 3/4" | 3" | 3 1/2" | 4" |

20. ALL ANCHOR BOLTS OR ANY OTHER BOLT ANCHORING THE FOUNDATION SILL PLATE SHALL HAVE STEEL SQUARE PLATE WASHERS PER THE BELOW SCHEDULE BETWEEN THE FOUNDATION SILL PLATE AND THE NUT (UNO).

| BOLT DIAMETER | 1/2" | 5/8" | 3/4" | 7/8" | 1" |
|---|---|---|---|---|---|
| WASHER - THICKNESS | 5/16" | 5/16" | 3/8" | 7/16" | 1/2" |
| WASHER - WIDTH SQUARE | 3" | 3" | 3" | 3 1/2" | 4" |

21. FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE (OR ENGINEER APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. HARDWARE SHALL BE FULLY NAILED FOR MAXIMUM CAPACITY, UNLESS NOTED OTHERWISE.
22. LAG BOLTS (LAG SCREWS): PROVIDE LEAD HOLE 40%- 70% OF THREADED SHANK DIAMETER AND FULL DIAMETER FOR SMOOTH SHANK PORTION.
23. ALL NAILS CONNECTING WOOD MEMBERS SHALL BE COMMON NAILS. MINIMUM NAILING REQUIREMENTS OUTLINED IN TABLE 2304.10.1 SHALL BE FOLLOWED UNLESS OTHERWISE NOTED.
24. RETIGHTEN BOLTS BEFORE CLOSING-IN.
25. ALL HOLD DOWN ANCHORS AND ALL OTHER ANCHORS AND MISCELLANEOUS METAL HANGERS ARE BY SIMPSON OR APPROVED EQUAL.

## STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ASSORDANCE WITH CHAPTER 22 OF THE CODE AND THE FOLLOWING REFERENCES:
   A. AISC 303 - "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
   B. AISC 360 - "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS"
   C. AISC 341 - "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" FOR MEMBERS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS)
   D. RCSC's - "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS"
2. COMPLY WITH THE FOLLOWING PROVISIONS FOR ALL WELDED JOINTS:
   A. AWS D1.1 - "STRUCTURAL STEEL WELDING CODE"
   B. AWS D1.8 - "SEISMIC SUPPLEMENT" FOR CONNECTIONS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS)
3. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

| | ASTM SPECIFICATION |
|---|---|
| W SHAPES AND WT SHAPES | A992 |
| PLATES & BARS | A36<br>A572, GR 50 (WHERE INDICATED) |
| HSS SECTIONS | A500 GR B<br>A1085 (WHERE INDICATED) |
| HIGH STRENGTH BOLTS (AS INDICATED IN DETAILS) | F3125, GR A325 OR GR F1852 [TWIST-OFF TYPE]<br>F3125, GR A490 OR GR F2280 [TWIST-OFF TYPE] |
| ANCHOR RODS | F1554 GR 55<br>F1554 GR 36/105 (WHERE INDICATED) |
| COMMON/MACHINE BOLTS | A307, GR A |

4. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS TO THE ARCHITECT OF ALL STEEL FOR ARCHITECTS AND STRUCTURAL ENGINEERS FOR REVIEW AND APPROVAL BEFORE FABRICATION.
5. BOLT HOLES USED IN STEEL SURFACES THAT ARE ENCASED IN CONCRETE OR MASONRY OR SPRAY ON FIREPROOFING SHALL BE LEFT UNPAINTED.
6. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (UNO). ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECT SPECIFICATIONS AND THE CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1 - 15) OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTION SECTION FOR WELDING INSPECTION REQUIREMENTS.
7. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360 SECTION J2.2b.
8. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL EXPOSED TO THE WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. PROTECT FIELD WELDS EXPOSED TO THE WEATHER VIA PRIME AND PAINT OR BRUSH/COLD GALVANIZING. REFER TO ARCHITECTURAL DRAWINGS FOR STEEL FINISH.
9. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT. PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED TO REINFORCED CONCRETE/MASONRY USING POST-INSTALLED ANCHORS, LOCATE ALL REINFORCEMENT AND CONFIRM CONSTRUCTABILITY OF ANCHOR LOCATIONS. SHOULD CONFLICTS WITH REINFORCEMENT OCCUR, SUBMIT ALTERNATE ANCHOR LOCATIONS AND REVISED STEEL FABRICATIONS TO ARCHITECT FOR REVIEW AND APPROVAL.
10. BACKUP BARS MAY REMAIN IN PLACE UNLESS NOTED OTHERWISE ON THE DRAWINGS, OR WHEN ULTRASONIC TESTING INDICATES A POSSIBLE WELD DEFECT. IF DEFECTS ARE INDICATED BACKUP BARS IS TO BE REMOVED AND THE ROOT INSPECTED. IF IMPERFECTIONS ARE FOUND, THEY ARE TO BE REMOVED AND REPAIRED PER AWS REQUIREMENTS.
11. THE USE OF E70T-4 WELDING WIRE IS NOT ALLOWED FOR ANY APPLICATION. ALL WELD FILLER METAL SHALL BE OF THE LOW HYDROGEN TYPE.
12. WRITTEN WELDING PROCEDURE SPECIFICATIONS (WPS) PER THE RECOMMENDATION OF THE AMERICAN WELDING SOCIETY (AWS) SHALL BE DEVELOPED BY THE FABRICATOR/ERECTOR AND SUBMITTED FOR REVIEW TO THE ENGINEER PRIOR TO ANY WELDING OF THE STRUCTURAL STEEL. THE WELDING PROCEDURES SHALL INCLUDE ALL THE WELDED JOINTS AND CONFIGURATIONS TO BE USED ON THIS PROJECT-ONLY WPS WHICH ARE RELEVANT TO THIS PROJECT SHALL BE SUBMITTED. ALL WELDED JOINTS SHALL BE PREQUALIFIED PER AWS OR BE QUALIFIED BY TEST PER AWS. A PROCEDURE QUALIFICATION RECORD (PQR) SHALL BE INCLUDED WITH THE WPS IF THE WELDING PROCEDURE OR JOINT IS QUALIFIED BY TESTING. THE ELECTRODE MANUFACTURER AND PRODUCT/TRADE NAME SHALL BE IDENTIFIED IN THE WPS IN ADDITION TO THE AWS ELECTRODE CLASSIFICATION NAME. A COPY OF THE ELECTRODE MANUFACTURER'S TECHNICAL DATA SHEETS WITH THE RECOMMENDED WELDING PARAMETERS SHALL BE SUBMITTED WITH THE WPS.

## REINFORCING STEEL

1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE, ASTM 706, GRADE 60, (UNO). DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A-305.
2. BARS SHALL BE CLEAN OF RUST GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
3. DETAIL, FABRICATE, AND INSTALL REINFORCING IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301, ACI 117, AND THE "CRSI MANUAL OF STANDARD PRACTICE."
4. WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A-185. PROVIDE LAPS AS PER ACI-318 SECTION 25.5.3, 9" MINIMUM. WWR SHALL BE SUPPORTED ON APPROVED CHAIRS.
5. REINFORCING BAR SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. MINIMUM SPLICE LENGTH FOR REINFORCING STEEL BARS IN MASONRY SHALL BE 72 BAR DIAMETERS, 36" MINIMUM. MINIMUM SPLICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE AS REQUIRED FOR CLASS B SPLICE PER ACI 318 SECTION 25.5.2 UNO. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS.
6. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
7. WHERE WELDING OF REINFORCING IS APPROVED BY THE STRUCTURAL ENGINEER, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E80XX OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF STRUCTURAL WELDING CODE REINFORCING STEEL AWS-D1.4 LATEST REVISION. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-706.
8. BARS IN SLABS SHALL BE SECURELY SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, PRIOR TO PLACING CONCRETE.
9. COMPLETE AND DETAILED REINFORCING PLACEMENT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE CODES. THESE DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF CONCRETE.
10. MILL TEST REPORTS FOR GRADE 60 BARS SHALL BE SUBMITTED PRIOR TO PLACEMENT OF CONCRETE.
11. CONTINUOUS INSPECTION OF CONCRETE (WALL INCLUDE INSPECTION DURING INSTALLATION OF REINFORCING STEEL. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT SLEEVES AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OF REINFORCING STEEL.
12. CONCRETE PROTECTION FOR REINFORCEMENT:

CAST-IN-PLACE CONCRETE: THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

| | MINIMUM COVER |
|---|---|
| CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 3" |
| CONCRETE EXPOSED TO EARTH OR WEATHER: | |
| #6 & LARGER | 2" |
| #5 & SMALLER | 1 1/2" |
| SLABS, WALLS, OR JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: | |
| #14 & LARGER | 1 1/2" |
| #11 & SMALLER | 3/4" |
| BEAM AND COLUMN TIES & STIRRUPS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND | 1 1/2" |

## STRUCTURAL OBSERVATIONS

1. STRUCTURAL OBSERVATION SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNEE IN ACCORDANCE WITH SECTION 1704.6 OF THE CODE.
2. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATION. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE CITY OR DEPUTY INSPECTORS.
3. THE CONTRACTOR SHALL COORDINATE AND CALL FOR A PRE-CONSTRUCTION MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS, PROJECT INSPECTOR. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS.
4. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER:

| CONSTRUCTION STAGES: | ELEMENTS/CONNECTIONS TO BE OBSERVED: |
|---|---|
| FOUNDATIONS | REINF./CONC./ANCHOR BOLTS |
| CONCRETE WALLS | REINF/EMBEDS |
| STEEL ERECTION | FRAMING/CONNECTIONS |
| CONCRETE SLABS | REINF/EMBEDS |

5. THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT FOR EACH SIGNIFICANT STATE OF CONSTRUCTION OBSERVED. A COPY OF THE OBSERVATION REPORT SHALL BE SENT TO THE OWNER, CONTRACTOR AND INSPECTOR OF RECORD (IOR).

## SPECIAL INSPECTIONS

1. THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL HAVE CONTINUOUS INSPECTION BY A PROJECT INSPECTOR APPROVED BY THE JURISDICTION:
   A. CONCRETE.
   B. BOLTS INSTALLED IN CONCRETE.
   C. PLACING OF REINFORCING STEEL.
   D. ALL STRUCTURAL WELDING, INCLUDING REINFORCING STEEL.
   E. EXPANSION ANCHORS.
   F. EPOXY ANCHORS.
   G. HIGH STRENGTH BOLTS.
2. ALL SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704 OF THE CODE AND ANY ADDITIONAL REQUIREMENTS STATED IN THESE DRAWINGS AND/OR THE PROJECT SPECIFICATIONS.

## TEST AND INSPECTION REQUIREMENTS

1. TEST AND INSPECTIONS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 17 SECTION 1704 OF THE CODE.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR CHANGE ORDER APPROVED BY THE CITY.
3. A PROJECT INSPECTOR EMPLOYED BY THE OWNER AND APPROVED BY THE CITY SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 CALIFORNIA CODE OF REGULATIONS.

## CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318, LATEST EDITION.
2. REINFORCED CONCRETE IS DESIGNED BY THE "ULTIMATE STRENGTH DESIGN METHOD".
3. CONCRETE MIXTURES SHALL BE DESIGNED BY THE APPROVED TESTING LABORATORY AND REVIEWED BY THE STRUCTURAL ENGINEER. THE COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE PROPORTIONED BASED AS INDICATED ON ACI 318-19.
4. SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES:

| LOCATIONS IN STRUCTURE: | STRENGTH (PSI) | DENSITY (PCF) | MAX W/C RATIO |
|---|---|---|---|
| ALL MISC CONCRETE | 4,000 | 145 | 0.45 |

5. PROVIDE CONCRETE MIXTURES THAT MEET THE DURABILITY REQUIREMENTS INDICATED IN THE GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS.
6. CONCRETE SHRINKAGE SHALL BE LIMITED TO 0.08 PERCENT PER ASTM C157.
7. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT.
8. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II, OR AS REQUIRED BY THE GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS. PROVIDE TYPE V WHERE CONCRETE IS IN CONTACT WITH CORROSIVE SOIL.
9. AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS.
10. AGGREGATE FOR LIGHT WEIGHT CONCRETE SHALL BE OF THE EXPANDED SHALE TYPE CONFORMING TO ALL REQUIREMENTS AND TESTS OF ASTM-C330 AND PROJECT SPECIFICATIONS.
11. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C-94.
12. PLACEMENT OF CONCRETE SHALL CONFORM TO THE CODE CHAPTER 19 AND PROJECT SPECIFICATIONS. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED UNLESS NOTED OTHERWISE.
13. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS, INCLUDING PIPES AND CONDUITS, SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
14. PROVIDE SLEEVES FOR PIPES AND CONDUITS PASSING THROUGH CONCRETE MEMBERS INCLUDING CONCRETE OVER METAL DECK BEFORE PLACING. DO NOT CUT REINFORCING WHICH MAY CONFLICT. SLEEVES SHALL NOT EXCEED 6-INCHES IN DIAMETER AND SHALL BE SPACED A MINIMUM OF 3 DIAMETERS APART FROM OTHER SLEEVES USING THE LARGER SLEEVE DIAMETER. OR AS INDICATED ON THE DRAWINGS. CLUSTERS OF SLEEVES ARE NOT PERMITTED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
15. CORING IN CONCRETE IS NOT PERMITTED WITHOUT ARCHITECT REVIEW AND APPROVAL. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
16. CONDUITS LARGER THAN 1-1/2" DIAMETER MAY BE EMBEDDED IN STRUCTURAL CONCRETE WHERE SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER. UNLESS DETAILED OTHERWISE, EMBEDDED CONDUIT SHALL CONFORM TO THE FOLLOWING:
   A. CONDUITS SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
   B. DO NOT STACK AND/OR CLUSTER CONDUITS.
   C. SPACE EMBEDDED CONDUITS A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED CONDUITS USING THE LARGER CONDUIT DIAMETER.
   D. PROVIDE 1-1/2" CLEAR FROM REINFORCING BARS.
   E. NO HORIZONTAL CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECK.
   F. EMBEDDED CONDUITS SHALL BE PLACE IN THE MIDDLE THIRD OF SLABS, BEAMS, WALLS, FOOTINGS, ETC.
17. PIPES ARE NOT PERMITTED TO BE EMBEDDED IN CONCRETE.

## CONSTRUCTION JOINTS

1. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 19 AND ACI 318 26.5.6 OF THE CODE AND THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.
2. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS, STANDING WATER OR OTHER FOREIGN MATTER PRIOR TO PLACING CONCRETE.
3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE STARTING CONSTRUCTION.

## POST-INSTALLED CONCRETE ANCHORS

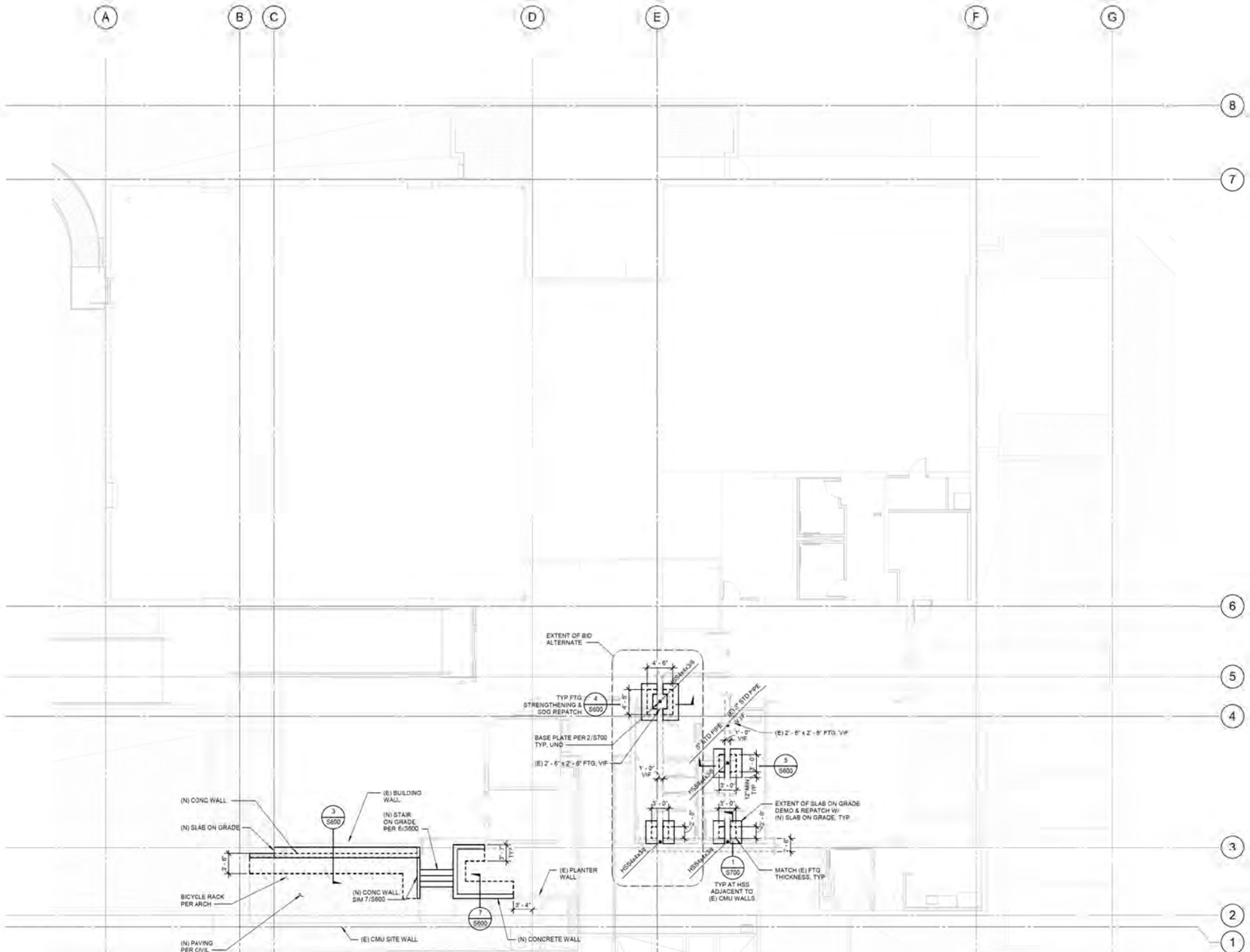
1. ALL EXPANSION TYPE ANCHORS SHALL CONSIST OF HILTI KWIK BOLT-TZ2 CONCRETE ANCHORS PER ICC ESR-4266 REPORT. INSTALLATION SHALL BE IN CONFORMANCE WITH THE ICC REPORT.
2. ALL EPOXY TYPE ANCHORS SHALL CONSIST OF HILTI HIT HY-200 HYBRID ADHESIVE USED IN CONJUNCTION WITH DEFORMED REINFORCING BARS PER ICC REPORT ESR-3187. INSTALLATION OF ANCHORS SHALL BE IN CONFORMANCE WITH THE ICC REPORT.
3. WHEN INSTALLING DRILLED IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS.
4. THE SPECIAL INSPECTOR MUST BE ON THE JOB SITE PERIODICALLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, PREDRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, SLAB THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE.
5. TEST ALL POST-INSTALLED ANCHORS AS REQUIRED PER SECTION 1705 OF THE CODE.
6. ALL WEDGE ANCHORS SHALL BE CARBON STEEL, UNO. USE STAINLESS STEEL ANCHORS IN EXTERIOR EXPOSURE AND DAMP ENVIRONMENTS.

## GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
2. ALL DRAWINGS, SPECIFICATIONS AND DOCUMENTS ENUMERATED IN THE OWNER/CONTRACTOR AGREEMENT ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. WHERE CONFLICTS BETWEEN DRAWING AND THE SPECIFICATIONS OCCUR, CONSTRUCTION SHALL FOLLOW THE MORE STRINGENT REQUIREMENT UNLESS OTHERWISE APPROVED BY SEOR.
4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

2022 CALIFORNIA BUILDING CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, VOLUME 2 OF 2 AND LATEST REVISIONS ADOPTED PRIOR TO PERMITTING REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (DOSH), AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.

5. ALL REFERENCED STANDARDS SHALL BE THE VERSION INDICATED IN CHARTER 35 OF THE CODE.
6. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
   B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS.
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
   D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN.
   E. FLOOR AND ROOF FINISHES.
   F. MISCELLANEOUS DRAINAGE AND WATERPROOFING.
   G. ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL.
   H. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
7. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
   B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS EXCEPT AS SHOWN OR NOTED.
   C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES, EXCEPT AS SHOWN OR NOTED.
   D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
8. THE STRUCTURAL CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER DO NOT INCLUDE REVIEW OF THE ABOVE ITEMS.
9. INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, NOTIFY THE ARCHITECT IMMEDIATELY.
10. OPENINGS, POCKETS, PENETRAT




1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

| BID ALTERNATE | | |
|---|---|---|
| ELEMENTS | BID ALT 1 | BID ALT 2 |
| (N) FTGS & STL COLUMNS | RETROFIT AS SHOWN WITHIN LIMIT OF BID ALT | NO RETROFIT WITHIN LIMIT OF BID ALT (SEE NOTE 8) |

**NOTES:**

1. SEE SHEET S001 FOR GENERAL NOTES.
2. SEE SHEET S600 THRU S800 FOR TYPICAL DETAILS.
3. VERIFY ALL DIMENSIONS PER ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
4. ALL CONDITIONS INCLUDING EXISTING FOUNDATIONS, FRAMING, AND CONNECTIONS SHALL BE FIELD VERIFIED PRIOR TO START OF DEMOLITION AND ANY CONSTRUCTION. NOTIFY ARCHITECT AND ENGINEER IF ANY FIELD CONDITION DIFFERS FROM THE PLANS. ANY DISCREPANCIES OR CHANGES TO ASSUMPTIONS MUST BE ADDRESSED BEFORE PROCEEDING WITH DEMOLITION AND CONSTRUCTION.
5. DO NOT CUT OR DAMAGE EXISTING FOUNDATIONS AND WALLS THAT ARE TO REMAIN.
6. EXISTING ROOF STRUCTURE ABOVE SHALL BE SHORED PRIOR TO THE START OF WALL DEMOLITION. SEE ARCHITECTURAL DRAWINGS FOR THE EXTENT OF DEMOLITION.
7. EXISTING STRUCTURE SHALL BE SHORED PRIOR TO THE START OF DEMOLITION WORK.
8. BID ALTERNATE 2 TO BE USED WHERE EXISTING WALL IS DETERMINED NOT TO BE A BEARING WALL. CONTRACTOR TO NOTIFY EOR WHEN ACCESS CAN BE PROVIDED TO THE AREA WITHIN THE LIMIT OF THE BID ALTERNATE TO MAKE A DETERMINATION PRIOR TO DEMOLITION AND CONSTRUCTION.

**LEGEND:**

- INDICATES EXISTING RPE COLUMN
- INDICATES NEW HSS COLUMN
- INDICATES EXISTING FOUNDATION
- INDICATES NEW FOUNDATION

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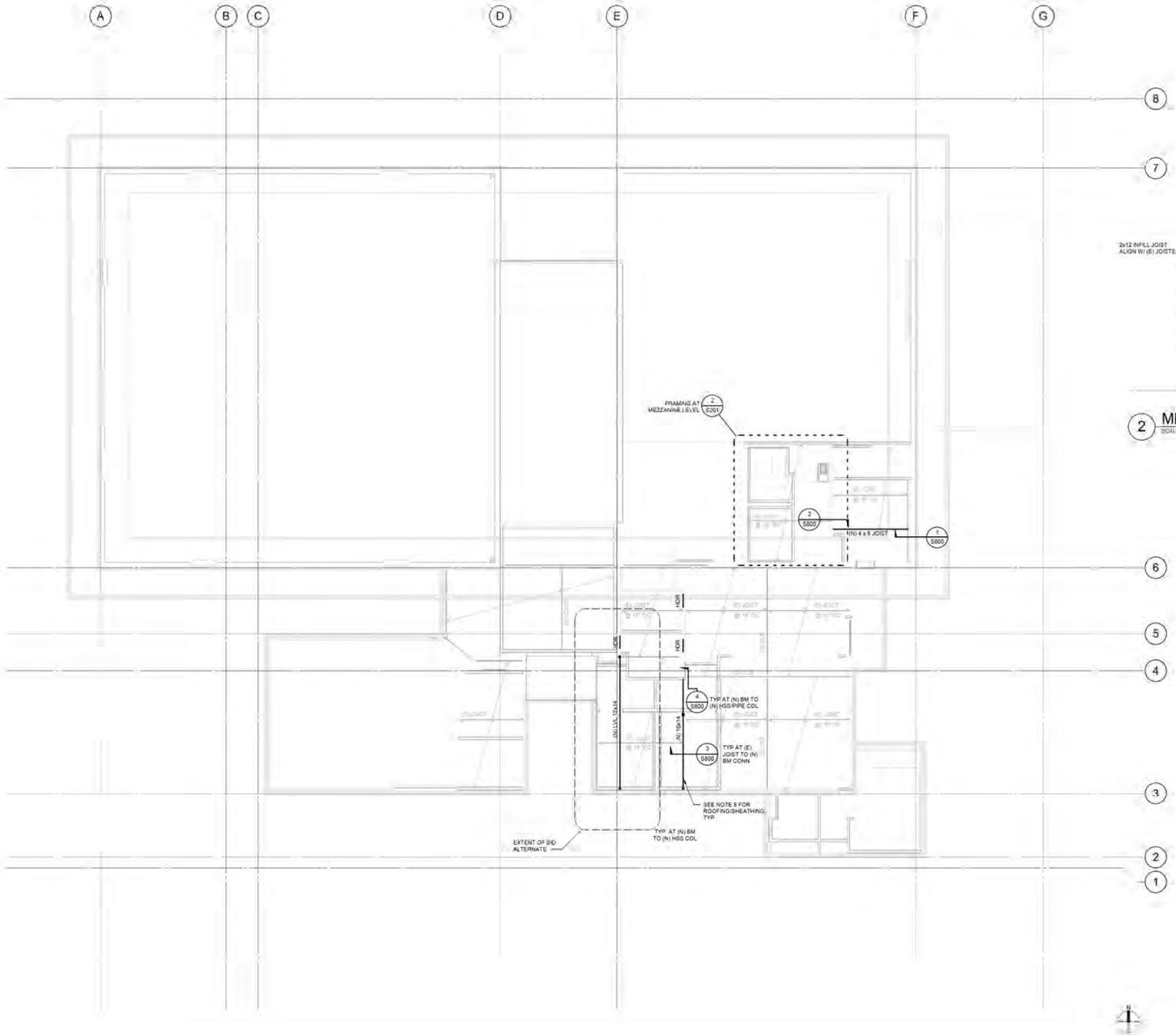
Key Plan:

Issue & Submission:

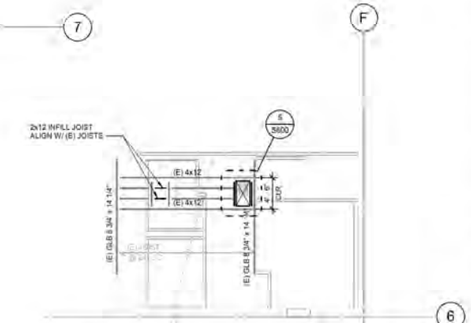
Drawing Name: FIRST FLOOR PLAN

Project No: 24151
Drawn By: MMRA
Checked By: HMSM

Sheet No: S200




1 ROOF PLAN
SCALE: 1/8" = 1'-0"




2 MEZZANINE FRAMING PLAN
SCALE: 1/8" = 1'-0"

| BID ALTERNATE | | |
|---|---|---|
| ELEMENTS: | "BID ALT 1" | "BID ALT 2" |
| (N) FTGS & STL COLUMNS: | RETROFIT AS SHOWN WITHIN LIMIT OF BID ALT | NO RETROFIT WITHIN LIMIT OF BID ALT (SEE NOTE 10) |

**NOTES:**

1. SEE SHEET S001 FOR GENERAL NOTES.
2. SEE SHEET S800 THRU S899 FOR TYPICAL DETAILS.
3. VERIFY ALL DIMENSIONS PER ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
4. ALL CONDITIONS INCLUDING EXISTING FOUNDATIONS, FRAMING, AND CONNECTIONS SHALL BE FIELD VERIFIED PRIOR TO START OF DEMOLITION AND ANY CONSTRUCTION. NOTIFY ARCHITECT AND ENGINEER IF ANY FIELD CONDITION DIFFERS FROM THE PLANS. ANY DISCREPANCIES OR CHANGES TO ASSUMPTIONS MUST BE ADDRESSED BEFORE PROCEEDING WITH DEMOLITION AND CONSTRUCTION.
5. DO NOT CUT OR DAMAGE EXISTING FOUNDATIONS AND WALLS THAT ARE TO REMAIN.
6. EXISTING ROOF STRUCTURE ABOVE SHALL BE SHORED PRIOR TO THE START OF WALL DEMOLITION. SEE ARCHITECTURAL DRAWINGS FOR THE EXTENT OF DEMOLITION.
7. EXISTING STRUCTURE SHALL BE SHORED PRIOR TO THE START OF DEMOLITION WORK.
8. (E) ROOFING AND SHEATHING WITHIN THE EXTENT REQUIRED MAY BE REMOVED AT CONTRACTOR'S OPTION AS NEEDED FOR THE INSTALLATION OF (N) BEAMS. ANY (E) SHEATHING AND ROOFING THAT IS REMOVED TO INSTALL (N) BEAMS SHALL BE REPLACED IN KIND. (N) SHEATHING SHALL MATCH (E) PLYWOOD AND NAILING: MIN 1/2" SHTG W/ 8d NAILS @ 4-4-12 AT ROOF, MIN 3/4" SHTG. 8d NAILS @ 4-4-6 AT MEZZANINE.
9. (E) JOISTS PREVIOUSLY SUPPORTED BY DEMOLISHED BEARING WALLS SHALL BE RESUPPORTED BY THE (N) BEAM.
10. BID ALTERNATE 2 TO BE USED WHERE EXISTING WALL IS DETERMINED NOT TO BE A BEARING WALL. CONTRACTOR TO ALERT SEOR WHEN ACCESS CAN BE PROVIDED TO THE AREA WITHIN THE LIMIT OF THE BID ALTERNATE TO MAKE A DETERMINATION.

**LEGEND:**

- INDICATES EXISTING PIPE COLUMN
- INDICATES NEW HSS COLUMN
- INDICATES NEW STEEL FRAMING
- INDICATES EXISTING WOOD JOISTS
- HDR — INDICATES NEW HEADER. SEE ARCH. DRAWINGS FOR NEW OPENINGS WHERE HEADER IS NOT SHOWN. ALL NEW OPENINGS REQUIRE HEADER. HEADER SHALL BE SUPPORTED BY 6min. POSTS MATCHING THE WALL THICKNESS.

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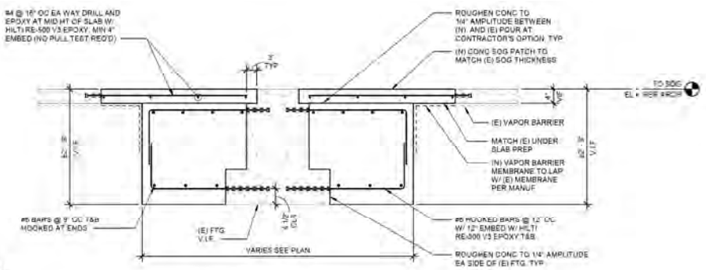
Key Plan:

Issue & Submission:

Drawing Name: ROOF PLAN

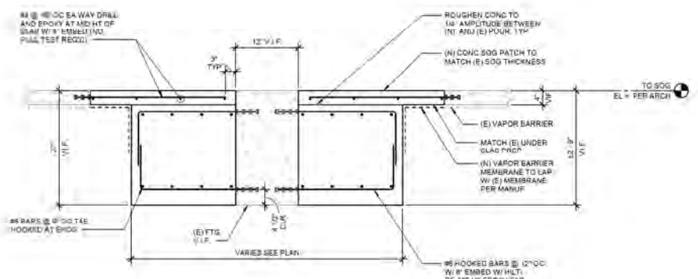
Project No: 24125
Drawn By: AMPM
Checked By: DM/KM

Sheet No: S201



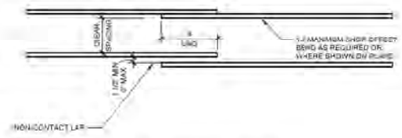

NOTE:
SCAN FOR (E) REINF. (E) REINF SHALL NOT BE DAMAGED DURING DRILLING FOR (N) EPOXY BARS

4 (E) FOUNDATION STRENGTHENING DETAIL
SCALE: 3/4" = 1'-0"

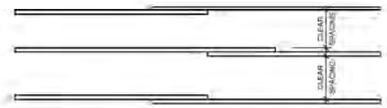



5 (E) FOUNDATION STRENGTHENING DETAIL
SCALE: 3/4" = 1'-0"

| REBAR LAP SPLICE LENGTH SCHEDULE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BAR SIZE | LAP CLASS | NORMAL WEIGHT CONCRETE | | | | | | | |
| | | f'c = 3000 psi | | | | f'c = 4000 psi | | | |
| | | Top Bars | | Other Bars | | Top Bars | | Other Bars | |
| | | Case 1 | Case 2 | Case 1 | Case 2 | Case 1 | Case 2 | Case 1 | Case 2 |
| 3 | A | 1'-10" | 2'-9" | 1'-5" | 2'-1" | 1'-7" | 2'-4" | 1'-3" | 1'-10" |
| | B | 2'-4" | 3'-4" | 1'-10" | 2'-8" | 2'-1" | 3'-1" | 1'-7" | 2'-4" |
| 4 | A | 2'-5" | 3'-7" | 1'-10" | 2'-9" | 2'-1" | 3'-1" | 1'-7" | 2'-5" |
| | B | 3'-2" | 4'-8" | 2'-5" | 3'-7" | 2'-9" | 4'-1" | 2'-1" | 3'-1" |
| 5 | A | 3'-0" | 4'-6" | 2'-4" | 3'-6" | 2'-7" | 3'-11" | 2'-0" | 3'-0" |
| | B | 3'-11" | 5'-10" | 3'-0" | 4'-6" | 3'-5" | 5'-1" | 2'-7" | 3'-11" |
| 6 | A | 3'-7" | 5'-5" | 2'-9" | 4'-2" | 3'-1" | 4'-8" | 2'-5" | 3'-7" |
| | B | 4'-6" | 7'-0" | 3'-7" | 5'-5" | 4'-1" | 6'-1" | 3'-1" | 4'-8" |
| 7 | A | 5'-3" | 7'-10" | 4'-0" | 6'-0" | 4'-6" | 6'-9" | 3'-6" | 5'-3" |
| | B | 6'-9" | 10'-2" | 5'-3" | 7'-10" | 5'-11" | 8'-10" | 4'-6" | 6'-9" |
| 8 | A | 6'-2" | 8'-11" | 4'-7" | 6'-11" | 5'-2" | 7'-9" | 4'-0" | 6'-2" |
| | B | 7'-9" | 11'-7" | 6'-0" | 8'-11" | 6'-9" | 10'-1" | 5'-2" | 7'-9" |
| 9 | A | 6'-9" | 10'-1" | 5'-2" | 7'-9" | 5'-10" | 8'-9" | 4'-6" | 6'-9" |
| | B | 8'-9" | 13'-1" | 6'-9" | 10'-1" | 7'-7" | 11'-4" | 5'-10" | 8'-9" |
| 10 | A | 7'-7" | 11'-4" | 5'-10" | 8'-8" | 6'-7" | 9'-10" | 5'-1" | 7'-7" |
| | B | 9'-10" | 14'-9" | 7'-7" | 11'-4" | 8'-6" | 12'-9" | 6'-7" | 9'-10" |
| 11 | A | 8'-5" | 12'-7" | 6'-6" | 9'-8" | 7'-3" | 10'-11" | 5'-7" | 8'-5" |
| | B | 10'-11" | 16'-4" | 8'-5" | 12'-7" | 9'-6" | 14'-2" | 7'-3" | 10'-11" |



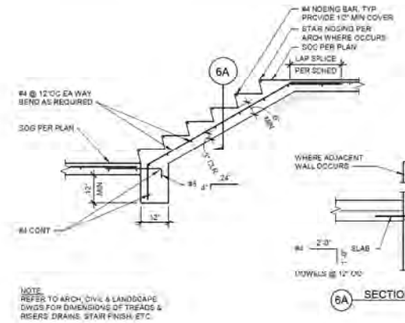

1A TYPICAL LAP SPLICES




1B STAGGERED SPLICING

NOTES:
1. CASES 1 AND 2 WHICH DEPEND ON CLEAR CONCRETE COVER AND THE CENTER-TO-CENTER SPACING OF THE BARS ARE DEFINED AS:
   CASE 1: COVER AT LEAST 1db AND CLEAR SPACING AT LEAST 2db
   CASE 2: COVER LESS THAN 1db OR CLEAR SPACING LESS THAN 2db.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
3. OTHER BARS INCLUDE VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12 INCHES OF CONCRETE CAST BELOW HORIZONTAL BARS
4. BAR SPLICES NOT COVERED BY THIS SCHEDULE ARE SPECIFICALLY DETAILED AND DIMENSIONED PER PLANS.
5. ALL SPLICES SHALL BE CLASS 'B' UNLESS OTHERWISE ON PLANS.
6. FOR DEVELOPMENT LENGTH, Ld, USE CLASS 'A' LAP SPLICE LENGTH.
7. FOR LAP SPLICES OF BARS IN SHEAR WALLS, REFER TO LAP SPLICE AND DEVELOPMENT SCHEDULE IN CONCRETE WALL ELEVATIONS.
8. THIS SCHEDULE IS FOR GR 60 REINFORCEMENT.
9. CAN USE 1.25 x LAP SPLICE IN LIEU OF NOTE 7 AT SHEAR WALLS
10. FOR STAGGERED SPLICES, CLEAR SPACING SHOWN IN DIAGRAM MAY BE USED TO DETERMINE CASE 1 OR CASE 2 PER NOTE 1

1 DEVELOPMENT AND LAP SPLICE OF CONCRETE REINFORCEMENT BARS- NW CONCRETE
12" = 1'-0"




NOTE:
REFER TO ARCH, CIVIL & LANDSCAPE DWGS FOR DIMENSIONS OF TREADS & RISERS, DRAINS, STAIR FINISH, ETC.

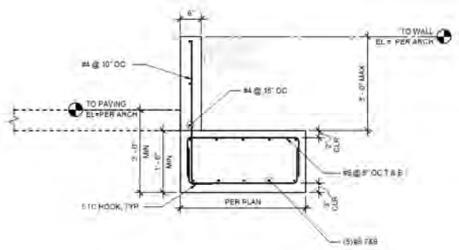
6 STAIR ON GRADE
SCALE: 1/2" = 1'-0"

| TYPE OF STANDARD HOOK | BAR SIZE | MINIMUM INSIDE BEND DIAMETER (in) | STRAIGHT EXTENSION (in) $6_{ext}$ IN | TYPE OF STANDARD HOOK |
|---|---|---|---|---|
| 90-DEGREE HOOK | #3 THROUGH #8 | $6d_b$ | $12d_b$ | POINT AT WHICH BAR IS DEVELOPED; FACE OF CONCRETE; 90° BEND; DIAMETER; $6d_b$; $l_{dh}$; 2" CLR MIN |
| | #9 THROUGH #11 | $8d_b$ | | |
| | #14 THROUGH #18 | $10d_b$ | | |
| 180-DEGREE HOOK | #3 THROUGH #8 | $6d_b$ | GREATER OF $4d_b$ AND 2.5 IN | POINT AT WHICH BAR IS DEVELOPED; FACE OF CONCRETE; 180° BEND; DIAMETER; $6d_b$; $l_{dh}$; 2" CLR MIN |
| | #9 THROUGH #11 | $8d_b$ | | |
| | #14 THROUGH #18 | $10d_b$ | | |

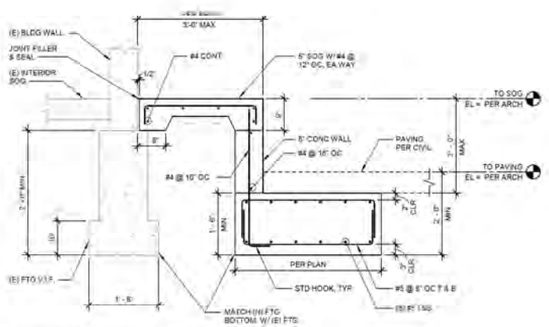
| STANDARD HOOK DEVELOPMENT LENGTH $l_{dh}$ | | | | |
|---|---|---|---|---|
| | | | NORMAL WEIGHT | |
| BAR SIZE | D | ½" | 3000 | 4000 |
| #3 | 2 1/4" | 5" | 0'-9" | 0'-8" |
| #4 | 3" | 8" | 0'-11" | 0'-10" |
| #5 | 3 3/4" | 10 | 1'-2" | 1'-0" |
| #6 | 4 1/2" | 12 | 1'-5" | 1'-3" |
| #7 | 5 1/4" | 1'-2" | 1'-8" | 1'-5" |
| #8 | 6" | 1'-4" | 1'-10" | 1'-7" |
| #9 | 7 1/2" | 1'-7 1/2" | 2'-1" | 1'-10" |
| #10 | 10 3/4" | 1'-10" | 2'-4" | 2'-1" |
| #11 | 12" | 2'-0 1/2" | 2'-7" | 2'-3" |

NOTES:
1. ACI 318-14 TABLE 25.3.2.
2. ALL HOOKED BARS SHALL EXTEND AS FAR AS POSSIBLE WITH A MINIMUM 2" END COVER AND WITH EMBEDMENT NOT LESS THAN SHOWN ON THE SCHEDULE, UNO ON PLANS.

2 STANDARD HOOK DEVELOPMENT LENGTH BENDING DETAIL
SCALE: 1" = 1'-0"




7 (N) PLANTER RETAINING WALL
SCALE: 3/4" = 1'-0"




3 (N) RETAINING WALL AND FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"

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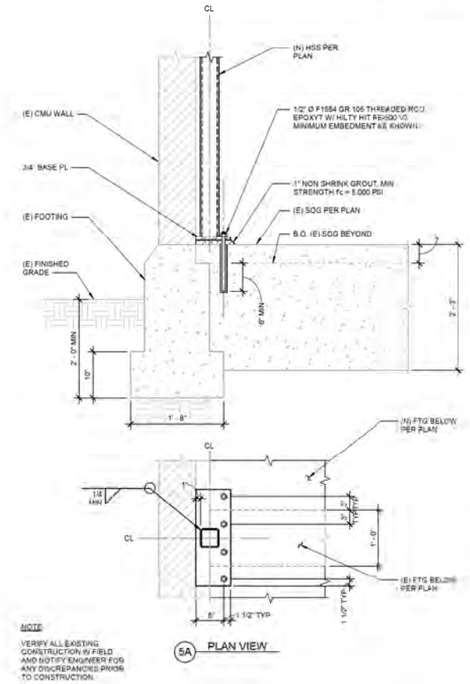
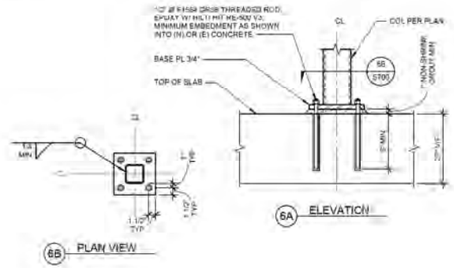
TYPICAL CONCRETE DETAILS

S600




1 (N) COLUMN BASE PLATE AT (E) CMU WALL
SCALE: 1" = 1'-0"




2 (N) HSS COLUMN BASE PLATE DETAIL
SCALE: 1" = 1'-0"

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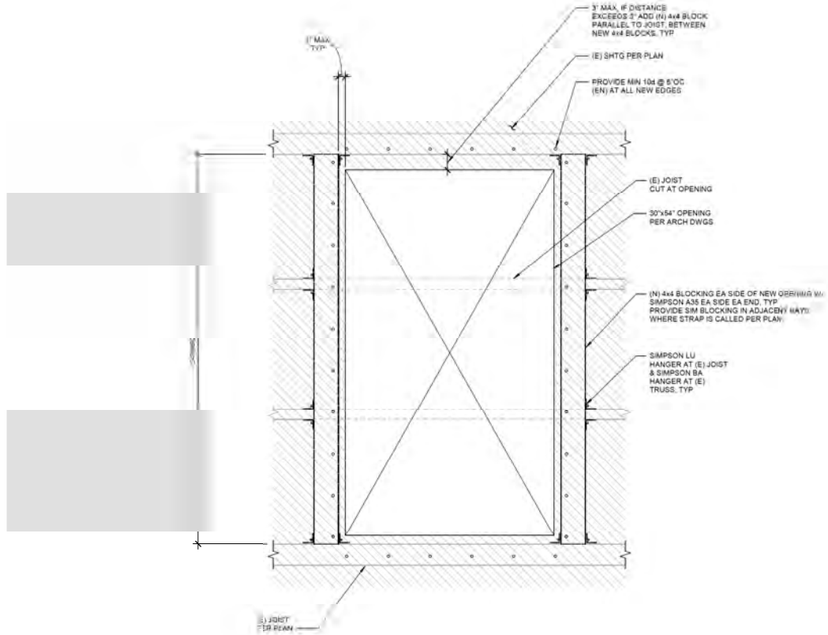
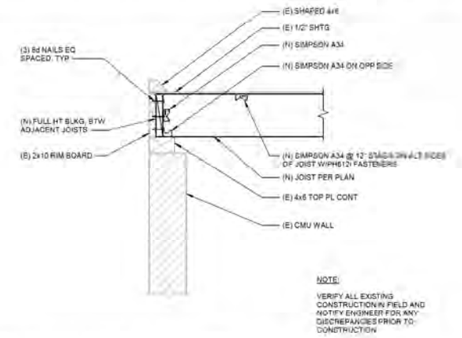
| No. | Description | Date |
|---|---|---|
| 1 | 100% SCHEMATIC DESIGN | 11 OCT 2024 |
| 2 | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | 100% CONSTRUCTION DOCUMENTS | 07 MAR 2025 |
| | ISSUED FOR PERMIT | 20 MAR 2025 |

TYPICAL STEEL DETAILS

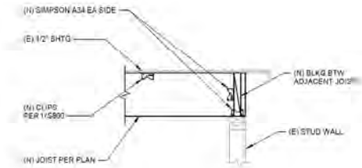
Sheet No.: S700



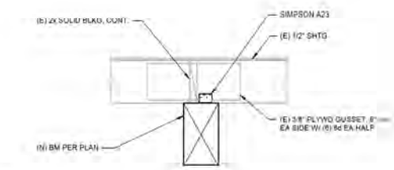

5 HORIZONTAL FRAMING AT OPENINGS
SCALE: 1 1/2" = 1'-0"



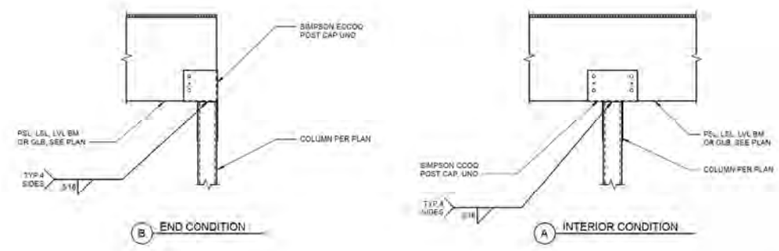

1 (N) JOIST TO (E) CMU WALL
SCALE: 1" = 1'-0"




2 (N) JOIST AT (E) STUD WALL
SCALE: 1" = 1'-0"




3 (N) WOOD BM AT (E) JOISTS
SCALE: 1" = 1'-0"




4 WOOD BEAM TO HSS/PIPE COLUMN CONN
SCALE: 1" = 1'-0"

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Consultant: JENSEN HUGHES

| No. | Description | Date |
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| | ISSUED FOR PERMIT | 20 MAR 2025 |

Sheet Name: TYPICAL WOOD DETAILS

Sheet No: S800

# MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

## Abbreviations

| | |
|---|---|
| AFF | ABOVE FINISHED FLOOR |
| AD | ACCESS DOOR |
| AC | AIR CONDITIONED |
| AHU | AIR HANDLING UNIT |
| BDD | BACKDRAFT DAMPER |
| BPF | BACKFLOW PREVENTER |
| BFF | BELOW FINISHED FLOOR |
| B | BOILER |
| BHP | BRAKE HORSEPOWER |
| CD | CEILING DIFFUSER |
| CL | CENTERLINE |
| CV | CHECK VALVE |
| CH | CHILLER |
| COP | COEFFICIENT OF PERFORMANCE |
| CW | COLD WATER |
| CD | CONDENSATE DRAIN |
| CU | CONDENSING UNIT |
| CONT. | CONTINUATION |
| CT | COOLING TOWER |
| DB | DECIBEL |
| DP | DEW POINT, DIFFERENTIAL PRESSURE |
| DIA | DIAMETER |
| DX | DIRECT EXPANSION |
| DG | DOOR GRILLE |
| D | DROP |
| DB | DRY BULB |
| EFF | EFFICIENT |
| ELECT | ELECTRICAL |
| EL | ELEVATION |
| EER | ENERGY EFFICIENCY RATING |
| EAT | ENTERING AIR TEMPERATURE |
| EWT | ENTERING WATER TEMPERATURE |
| EXH | EXHAUST |
| EF | EXHAUST FAN |
| (E) | EXISTING |
| FA | FACE AREA |
| F | FAHRENHEIT |
| FC | FAN COIL |
| FT | FEET |
| FPM | FEET PER MINUTE |
| FPS | FEET PER SECOND |
| FPI | FINS PER INCH |
| FD | FIRE DAMPER |
| FC | FLEXIBLE CONNECTOR |
| FLA | FULL LOAD AMPS |
| GAL | GALLONS |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| HD | HEAD |
| HP | HEAT PUMP |
| HTR | HEATER |
| HTG | HEATING |
| HP | HORSEPOWER |
| HWC | HOT WATER COIL |
| IN | INCHES |
| ID | INSIDE DIAMETER |
| IE | INVERT ELEVATION |
| KW | KILOWATT |
| LH | LATENT HEAT |
| LAT | LEAVING AIR TEMPERATURE |
| LWT | LEAVING WATER TEMPERATURE |
| MW | MAKE-UP WATER |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| MA | MIXED AIR |
| MS | MOTOR STARTER |
| MD | MOTORIZED DAMPER |
| MH | MOUNTING HEIGHT |
| (N) | NEW |
| NC | NOISE CRITERIA |
| N/A | NOT APPLICABLE |
| NIC | NOT IN CONTRACT |
| NTS | NOT TO SCALE |
| NO. | NUMBER |
| OC | ON CENTER |
| OBD | OPPOSED BLADE DAMPER |
| OA | OUTSIDE AIR |
| OD | OUTSIDE DIAMETER |
| PH | PHASE |
| LBS | POUNDS |
| PSI | POUNDS PER SQUARE INCH |
| (P) | PRESSURE DROP |
| PRV | PRESSURE REDUCING VALVE |
| P | PUMP |
| QTY | QUANTITY |
| REF | REFRIGERANT |
| RL | REFRIGERANT LIQUID |
| RS | REFRIGERANT SUCTION |
| RH | RELATIVE HUMIDITY |
| RLD | RELIEF DAMPER |
| (R) | RELOCATE/RELOCATED LOCATION |
| RET | RETURN |
| RA | RETURN AIR |
| RPM | REVOLUTIONS PER MINUTE |
| R | RISE |
| SEER | SEASONAL ENERGY EFFICIENCY RATING |
| SR | SENSIBLE HEAT |
| SOV | SHUT OFF VALVE |
| SF | SQUARE FEET |
| SP | STATIC PRESSURE |
| SA | SUPPLY AIR |
| T, TEMP | TEMPERATURE |
| TD | TEMPERATURE DIFFERENCE |
| MBH | THOUSAND BTU'S PER HOUR |
| TH | TOTAL HEAT |
| TP | TOTAL PRESSURE |
| UD | UNDERCUT DOOR |
| VAV | VARIABLE AIR VOLUME |
| VEL | VELOCITY |
| V | VOLT |
| VD | VOLUME DAMPER (HAND OPERATOR) |
| WC | WATER COLUMN |
| W | WATT |
| WB | WET BULB |
| W/ | WITH |

## Control Symbols

- CARBON DIOXIDE SENSOR
- SPACE TEMPERATURE SENSOR/THERMOSTAT

## Dampers

- FIRE DAMPER
- FIRE/SMOKE DAMPER
- MOTORIZED DAMPER
- SMOKE DAMPER
- VOLUME DAMPER

## Diffusers and Grilles

- DIFFUSER OR GRILLE IDENTIFICATION
- EXHAUST AIR
- RETURN AIR
- SUPPLY AIR

## Ductwork Fittings

- ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)
- BELLMOUTH
- CONCENTRIC SQUARE TO ROUND
- CONCENTRIC TRANSITION, RECTANGULAR OR ROUND
- ECCENTRIC TRANSITION, RECTANGULAR OR ROUND
- FLEXIBLE CONNECTION
- NON-SYMMETRICAL WYE
- RECTANGULAR DUCT DROP
- RECTANGULAR DUCT RISER
- RECTANGULAR AIR MAIN WITH RECTANGULAR AIR BRANCH
- RECTANGULAR MAIN WITH ROUND BRANCH
- RECTANGULAR OFFSET LESS THAN 15%%d
- RECTANGULAR OFFSET MORE THAN 15%%d
- ROUND DUCT DROP
- ROUND DUCT RISER
- ROUND DUCT WITH ROUND BRANCH
- ROUND WYE
- SYMMETRICAL WYE
- MITERED ELBOW WITH TURNING VANES
- RADIUSED ELBOW

## General

- LIMIT OF DEMOLITION
- DEMOLISH
- EXISTING WORK
- NEW WORK
- RECTANGULAR DUCT SIZING
- ROUND DUCT SIZING

## Piping Fittings, Appurtenances and Equipment

- AIR SEPARATOR
- AUTOMATIC AIR VENT
- BACKFLOW PREVENTER
- CAP
- CONTINUATION
- EXPANSION JOINT
- EXPANSION LOOP
- EXPANSION TANK
- FLOW SWITCH
- HEAT EXCHANGER
- HOSE BIBB
- MANUAL AIR VENT
- PIPE BELOW GRADE
- PIPE DROP
- PIPE REMOVED IN DEMOLITION
- PIPE RISE
- PIPE TO DRAIN
- PRESSURE GAUGE WITH COCK
- PRESSURE RELIEF VALVE
- PRESSURE SENSOR
- PUMP
- SHOCK ABSORBER
- T&P RELIEF VALVE WITH PIPE TO DRA
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- TEMPERATURE SENSOR
- TEST PORT (PETE'S PLUG OR EQUAL)
- THERMOMETER
- VENT TO ATMOSPHERE
- WATER METER

## Piping Systems

- CHILLED WATER RETURN
- CHILLED WATER SUPPLY
- CONDENSER WATER RETURN
- CONDENSER WATER SUPPLY
- HEATING WATER RETURN
- HEATING WATER SUPPLY
- REFRIGERANT LIQUID
- REFRIGERANT SUCTION

## Piping Valves

- BALANCING VALVE
- CHECK VALVE
- CONTROL VALVE
- GATE VALVE
- GLOBE VALVE
- PRESSURE REDUCING VALVE
- QUARTER TURN VALVE
- VALVE, GENERAL

# GENERAL MECHANICAL NOTES

A. PROVIDE MISCELLANEOUS METALS AND MATERIALS FOR A COMPLETE INSTALLATION (IE SUPPORT, BRACING, ETC.)

B. PROVIDE EQUIPMENT SUBMITTAL FOR REVIEW, IN ACCORDANCE WITH THE SPECIFICATIONS. DO NOT DELIVER TO THE JOB SITE ANY PRODUCTS WITHOUT PRIOR REVIEW BY THE ARCHITECT. SUBMIT ALL REQUIRED SUBMITTALS AT ONE TIME, AT CONTRACTOR'S OPTION, 1 SEPARATE SUBMITTALS MAY BE SUBMITTED, CONSISTING OF: UNDERGROUND WORK, BUILDING WORK, AND BUILDING AUTOMATION SYSTEM – DEVIATIONS WILL BE RETURNED WITHOUT REVIEW. INCOMPLETE SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. ENGINEER WILL PROVIDE MAXIMUM OF TWO REVIEWS OF SUBMITTAL PACKAGE. ARRANGE FOR ADDITIONAL REVIEWS AND/OR EARLY REVIEW OF LONG LEAD ITEMS AND BEAR COSTS OF THESE ADDITIONAL REVIEWS AT ENGINEER'S STANDARD HOURLY RATES. SUBSTITUTION REQUESTS WILL NOT BE REVIEWED AFTER AWARD OF CONTRACT.

C. PROVIDE SMOKE DETECTORS IN MAIN SUPPLY AIR DUCT OF ANY SUPPLY AIR SYSTEM WITH AIR QUANTITY OF MORE THAN 2000 CFM OR SUPPLY AIR SYSTEMS WHERE THE COMBINED SUPPLY AIR QUANTITY OF SUPPLY AIR SYSTEMS SUPPLYING AIR INTO ONE ZONE EXCEED 2000 CFM, OR FOR SYSTEMS SHARING A COMMON RETURN AIR PLENUM DUCT WHERE THE COMBINED SUPPLY AIR QUANTITY OF SUPPLY AIR SYSTEMS EXCEED 2000 CFM. DETECTORS MUST BE COMPATIBLE WITH THE BUILDING FIRE ALARM SYSTEM. DUCT SMOKE DETECTORS TO BE FURNISHED BY DIVISION 26 OR 28 AND INSTALLED BY DIVISION 23.

D. PRIOR TO SUBMISSION OF BID, REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS (INCLUDING ALL OTHER TRADES). INCLUDE ADDITIONAL PIPE OR DUCT OFF-SETS THAT MAY BE REQUIRED TO CLEAR STRUCTURE, FINISHES OR WORK OF OTHER TRADES. FIELD VERIFY EXACT LOCATION AND SIZES OF EXISTING UTILITIES, THE PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS, AND NEW ROUTINGS. EXTRA PAYMENT WILL NOT BE ALLOWED FOR WORK RESULTING FROM LACK OF APPRAISAL OF ENTIRE SCOPE OF WORK PRIOR TO BID. SYSTEM LAYOUTS AS INDICATED ON DRAWINGS ARE GENERALLY DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION WILL PERMIT.

E. PROVIDE DUCT ACCESS DOORS FOR EQUIPMENT AND DEVICES REQUIRING ACCESS OR RESETTING (IE. FIRE AND SMOKE DAMPERS, SMOKE DAMPERS, SENSORS, ETC.) INDICATE SIZE AND LOCATION ON COORDINATED SHOP DRAWINGS.

F. FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS TO SEAL WEATHER TIGHT (SEE ARCHITECTURAL ROOFING DETAILS AND SPECIFICATIONS).

G. INSTALL EQUIPMENT AND CURBS LEVEL. PROVIDE DUNNAGE, MISCELLANEOUS METALS, AND/OR PRESSURE TREATED LUMBER, AS REQUIRED TO INSTALL EQUIPMENT AND CURBS LEVEL.

H. PROVIDE DUCTWORK AND TRANSITIONS EQUAL TO DUCT FREE AREA SHOWN ON DRAWINGS TO PREVENT A SPATIAL CONFLICT. AT CONTRACTOR'S OPTION AND IF SPATIAL CONSTRAINTS ALLOW IT, ROUND SPIRAL DUCTWORK, OF EQUAL CROSS-SECTIONAL AREA OR LARGER, MAY BE USED IN LIEU OF RECTANGULAR DUCTWORK WHERE SHOWN ON PLANS.

I. PROVIDE FIELD INSTALLED OR MANUFACTURER'S REFRIGERANT LINE SETS BETWEEN THE SPLIT SYSTEMS' INDOOR AND OUTDOOR COMPONENTS, SIZING, QUANTITY, AND INSTALLATION OF PIPES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS BASED ON ACTUAL FIELD INSTALLED LENGTH. PROVIDE HARD WIRED THERMOSTATS AND CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNITS.

J. EQUIPMENT, HVAC DUCTS, PIPING AND OTHER DEVICES AND MATERIALS INSTALLED OUTDOORS OR EXPOSED TO WEATHER SHALL BE WEATHER-PROOF.

K. USE FLEXIBLE DUCTS ONLY FOR THE LAST 5 FEET MAXIMUM AT AIR OUTLETS PER 2015 CMC 603.4.1, EXCEPT AT AIR OUTLETS DO NOT USE FLEXIBLE DUCTWORK IN LIEU OF ELBOWS OR FITTINGS.

L. PROVIDE MANUAL VOLUME DAMPERS AT EACH GRILLE, REGISTER, AND DIFFUSER, AND LOCATE EQUIDISTANCE BETWEEN BRANCH TAKEOFF AND AIR INLET/OUTLET. DO NOT USE VOLUME DAMPERS INTEGRAL WITH GRILLES, DIFFUSERS AND REGISTERS FOR AIR BALANCING.

M. INSTALL EQUIPMENT WITH SUFFICIENT ACCESS TO PANELS, ELECTRICAL CONNECTIONS, CONTROLS, FILTERS, MOTORS, ETC. COORDINATE ACCESS TO ALL DAMPERS, VALVES, AND OTHER SERVICEABLE EQUIPMENT. REVIEW CEILING HEIGHTS AND COORDINATE ACCESS PANEL LOCATIONS.

N. COORDINATE EQUIPMENT PLATFORMS, AND CUTTING AND PATCHING. OBTAIN WRITTEN PERMISSION FROM THE ARCHITECT PRIOR TO ANY STRUCTURAL MODIFICATIONS, CUTTING OR PATCHING WORK. KEEP SAW CUTTING TO A MINIMUM.

O. VERIFY DIFFUSERS, GRILLES, AND REGISTER MOUNTING FRAME TYPES WITH CONSTRUCTION TYPE AND CONFIGURATION.

P. PAINT FLAT BLACK ALL VISIBLE INTERIOR PORTIONS OF DUCTWORK.

Q. PROTECT AND ISOLATE DUCTS STORED ON CONSTRUCTION SITE FROM DUST CONTAMINATION.

R. COORDINATE LOCATION OF SENSORS AND THERMOSTATS WITH ARCHITECT. COMPLY WITH ADA REQUIREMENTS.

S. "DEMOLISH" OR "REMOVE" MEAN: REMOVE AND RETURN TO OWNER FOR ACCEPTANCE, AND DISPOSE OF ANY ITEMS NOT ACCEPTED BY THE OWNER.

T. PROVIDE REMOTE DAMPER OPERATORS AS MANUFACTURED BY YOUNG REGULATOR COMPANY, MODEL 316 AND 279-275, OR EQUAL, FOR DAMPERS ABOVE INACCESSIBLE CEILINGS (SUCH AS GYPBOARD).

U. COORDINATE WITH DIVISION 26 FOR LOCATION OF POWER AND LOCAL DISCONNECTS FOR MECHANICAL EQUIPMENT DEVICES. PROVIDE STARTERS FOR EQUIPMENT WITHOUT VFD'S, ECM MOTORS, OR EQUIPMENT WITHOUT INTEGRAL STARTERS.

V. MAINTAIN MINIMUM ELECTRICAL CODE AND UNIT MANUFACTURER'S CLEARANCES TO ADJACENT CONSTRUCTION OR EQUIPMENT, PER CEC OR THE FOLLOWING TABLE:

| | 0-150 VOLT | 150-300 |
|---|---|---|
| NO LIVE OR GROUNDED PARTS ON OPPOSITE SIDE | 36 INCH | 36 INCH |
| GROUNDED PARTS ON OPPOSITE SIDE | 36 INCH | 42 INCH |
| LIVE PARTS ON OPPOSITE SIDE | 36 INCH | 48 INCH |

# SHEET INDEX



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[illegible]

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Sheet Name:
SYMBOL LIST AND GENERAL NOTES - MECHANICAL

Project No: [illegible]
Drawn By: [illegible]
Checked By: [illegible]
Scale: 1/8"=1'-0"

Sheet No:
M001

## TERMINAL UNIT SCHEDULE

| SYMBOL | LOCATION | AREA SERVED | BASIS OF DESIGN MFR | BASIS OF DESIGN MODEL | INLET SIZE | COOLING AIR FLOW MAX CFM | COOLING AIR FLOW MIN CFM | SERIES/PARALLEL | FAN CFM | FAN ESP | FAN MHP | MIN. INLET SP (IN H2O) | DN STREAM SP (IN H2O) | MAX TU SP (IN H2O) | ELECTRIC RESISTANCE HEAT MAX HTG CFM | EAT (°F) | LAT (°F) | HTG (KW) | STAGES | ELECTRICAL VOLTS | PH | CONTROLS REF | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAV-1 | CHECK OUT | ADULT STACKS | Titus | DTFS | 0'-10" | 945 | 330 | SERIES | 945 | 0.3 | 0.25 | 0.55 | 0.30 | 0.00 | 945 | 65 | 90 | 8 | 2 | 208 | 3 | 230933 | |
| VAV-2 | CHECK OUT | ADULT STACKS | Titus | DTFS | 1'-0" | 1375 | 550 | SERIES | 1375 | 0.3 | 0.33 | 0.35 | 0.30 | 0.00 | 1375 | 65 | 90 | 11 | 3 | 208 | 3 | 230933 | |
| VAV-3 | CHECK OUT | ADULT STACKS | Titus | DTFS | 0'-10" | 940 | 330 | SERIES | 940 | 0.3 | 0.25 | 0.35 | 0.30 | 0.00 | 940 | 65 | 90 | 8 | 2 | 208 | 3 | 230933 | |
| VAV-4 | CHECK OUT | CHECK OUT | Titus | DTFS | 0'-6" | 430 | 105 | SERIES | 430 | 0.3 | 0.25 | 0.35 | 0.30 | 0.00 | 430 | 65 | 90 | 4 | 2 | 208 | 3 | 230933 | |
| VAV-5 | LOBBY | LOBBY | Titus | DTFS | 0'-8" | 700 | 350 | SERIES | 500 | 0.3 | 0.25 | 0.35 | 0.30 | 0.00 | 700 | 65 | 90 | 4 | 2 | 208 | 3 | 230933 | |
| VAV-6 | LOBBY | MULTIPURPOSE | Titus | DTFS | 1'-0" | 1495 | 745 | SERIES | 1495 | 0.3 | 0.33 | 0.35 | 0.30 | 0.00 | 1495 | 65 | 90 | 12 | 3 | 208 | 3 | 230933 | |
| VAV-7 | CHECK OUT | CHILDRENS | Titus | DTFS | 0'-8" | 595 | 340 | SERIES | 595 | 0.3 | 0.25 | 0.35 | 0.30 | 0.00 | 595 | 65 | 90 | 6 | 2 | 208 | 3 | 230933 | |
| VAV-8 | CHECK OUT | CHILDRENS | Titus | DTFS | 0'-10" | 1100 | 340 | SERIES | 1100 | 0.3 | 0.25 | 0.55 | 0.30 | 0.00 | 1100 | 65 | 90 | 8 | 2 | 208 | 3 | 230933 | |
| VAV-9 | CHILDREN | OFFICE | Titus | DTFS | 0'-6" | 300 | 75 | SERIES | 300 | 0.3 | 0.167 | 0.35 | 0.30 | 0.00 | 300 | 65 | 90 | 2.5 | 1 | 208 | 3 | 230933 | |
| VAV-10 | STAFF | STAFF | Titus | DTFS | 0'-10" | 930 | 380 | SERIES | 930 | 0.3 | 0.25 | 0.35 | 0.30 | 0.00 | 930 | 65 | 90 | 8 | 2 | 208 | 3 | 230933 | |
| VAV-11 | PANTRY | PANTRY | Titus | DTFS | 0'-6" | 305 | 75 | SERIES | 305 | 0.3 | 0.167 | 0.35 | 0.30 | 0.00 | 305 | 65 | 90 | 2.5 | 1 | 208 | 3 | 230933 | |

## ROOFTOP PACKAGED AIR CONDITIONING UNIT SCHEDULE

| SYMBOL | LOCATION | AREA SERVED | BASIS OF DESIGN MFR | BASIS OF DESIGN MODEL | SPEC SECTION REF. | SUPPLY FAN TOTAL CFM | SUPPLY FAN MIN OSA CFM | SUPPLY FAN TSP (IN H2O) | SUPPLY FAN ESP (IN H2O) | SUPPLY FAN FAN TYPE | SUPPLY FAN # OF FANS | SUPPLY FAN BHP | SUPPLY FAN HP | SUPPLY FAN MAX. RPM | SUPPLY FAN MOTOR CONTROL | DX COOLING COIL TOTAL CAP (MBH) | DX COOLING COIL SENS CAP (MBH) | DX COOLING COIL EDB (°F) | DX COOLING COIL EWB (°F) | DX COOLING COIL LDB (°F) | DX COOLING COIL LWB (°F) | AIR SOURCE CONDENSER NOM TONS | AIR SOURCE CONDENSER QTY OF COMPRESSORS | AIR SOURCE CONDENSER QTY OF FANS | AIR SOURCE CONDENSER AMBIENT DB (°F) | AIR SOURCE CONDENSER EER OR SEER | FINAL FILTER EFF. MERV | FINAL FILTER DEPTH (IN.) | ELECTRICAL VOLTS | ELECTRICAL PH | ELECTRICAL MCA | ELECTRICAL MOCP | MIN SCCR (KAIC) | SMOKE DETECTOR (Y/N) | CONTROLS REF. | INSTALLATION REF. | APPROX DIMENSIONS (LxWxH) | MAX WT (LBS) | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RTU-1 | ROOF | LEVEL 1 | Carrier | 50K3A | 237460 | 8000 | 3645 | 1.8 | 1 | PLENUM | 1 | 4.24 | 5 | 1200 | VAV | 312.5 | 226.8 | 78.7 | 65.7 | 50.4 | 64.2 | 30 | 2 | 3 | 115 | 13.5 EER | 13 | 4" | 208 | 3 | 146.0 | 175 | 10K | Y | 230933 | 11M600 | 132"L x 70"W x 87"H | 4157 | ALL |

NOTES:
1. PROVIDE DIFFERENTIAL ENTHALPY AIRSIDE ECONOMIZER WITH BAROMETRIC RELIEF.
2. PROVIDE WITH ROOF CURB.
3. PROVIDE WITH PROGRAMMABLE WALL MOUNTED CONTROLLER. COORDINATE EXACT LOCATION WITH OWNER.

## FAN SCHEDULE

| SYMBOL | LOCATION | AREA SERVED | BASIS OF DESIGN MFR | BASIS OF DESIGN MODEL | TYPE | DRIVE | AIR FLOW (CFM) | TSP (IN H2O) | MAX RPM | SOUNDS SONES | ELECTRICAL VOLTS | ELECTRICAL PH | ELECTRICAL BHP | ELECTRICAL MHP | EMERGENCY POWER | CONTROLS REF | MAX WT (LBS) | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | ROOF | RESTROOMS | GREENHECK | G-B6-VG | DOWNBLAST | DIRECT | 700 | 0.5 | 1650 | 9.6 | 115 | 1 | 0.18 | 0.167 | NO | 230933 | 45 | ALL |

NOTES:
1. PROVIDE WITH ROOF CURB.
2. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.

## AIR TO AIR HEAT PUMP FAN COIL SCHEDULE

| SYMBOL | LOCATION | SERVING | BASIS OF DESIGN MFR | BASIS OF DESIGN MODEL | NOM TONS | HEAT PUMP CONDENSING UNIT | AIR FLOW (CFM) | FAN ESP (IN H2O) | COOLING TOTAL CAP (MBH) | COOLING SENS CAP (MBH) | COOLING ENT AIR (°F DB) | COOLING ENT AIR (°F WB) | COOLING EER | HEAT PUMP HEATING (MBH) | COP | ELECTRICAL VOLTS | ELECTRICAL PH | ELECTRICAL MCA | ELECTRICAL FLA | EMERGENCY POWER | CONTROLS REF | MAX WT (LBS) | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC-1 | ELEC RM | ELEC RM | Mitsubishi Electric | PKA-A12 | 1.5 | HP-1 | 570 | 0 | 16.3 | 12.0 | 75 | 61 | 10.7 | 19.5 | 3.45 | 208 | 1 | 1.0 | 9.2 | NO | 230933 | 36 | ALL |

NOTES:
1. INDOOR UNIT POWERED VIA OUTDOOR UNIT.
2. PROVIDE WITH WALL MOUNTED THERMOSTAT.
3. PROVIDE WITH CONDENSATE PUMP.

## CONDENSING UNIT SCHEDULE

| SYMBOL | LOCATION | AREA SERVED | BASIS OF DESIGN MFR | BASIS OF DESIGN MODEL | RELATED FAN | AIR SOURCE CONDENSER NOM TONS | AIR SOURCE CONDENSER QTY OF COMPRESSORS | AIR SOURCE CONDENSER COMP TYPE | AIR SOURCE CONDENSER CAP (MBH) | AIR SOURCE CONDENSER AMB. TEMP (°F) | AIR SOURCE CONDENSER MIN EFF | ELECTRICAL VOLTS | ELECTRICAL PH | ELECTRICAL MCA | ELECTRICAL MOCP | MIN SCCR (KAIC) | CONTROLS REF | APPROX DIMS (LxWxH) | MAX WT (LBS) | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HE-1 | ROOF | ELEC RM | Mitsubishi Electric | PUZ-A18 | AC-1 | 1.5 | 1 | INVERTER | 18.0 | 95 | 10.7 | 208 | 1 | 13.0 | 28 | | 230933 | 33"x13"x24" | 100 | |

## DIFFUSER, REGISTER AND GRILLE SCHEDULE

| SYMBOL | TYPE | FACE | FRAME | DIMENSIONS | DAMPER | BASIS OF DESIGN | COMMENTS |
|---|---|---|---|---|---|---|---|
| CES-1 | CEILING EXHAUST GRILLE | PERFORATED | CEILING LAY-IN | 24"x24" | VD | TITUS PAR | 1-3 |
| CRS-1 | CEILING RETURN GRILLE | PERFORATED | CEILING LAY-IN | 24"X24" | VD | TITUS PAR | 1-3 |
| CD-1 | CEILING SUPPLY DIFFUSER | SQUARE PLAQUE | CEILING LAY-IN | 24"X24" | VD | TITUS OMNI | 1-3 |
| RD-2 | LINEAR SLOT DIFFUSER | SLOT | CEILING | 6'-0" | VD | TITUS FL-10 | 1-3 |
| SD-1 | LINEAR SLOT DIFFUSER | SLOT | CEILING | 4'-0" | VD | TITUS FL-10 | 1-3 |
| SD-2 | LINEAR SLOT DIFFUSER | SLOT | CEILING | 6'-0" | VD | TITUS FL-10 | 1-3 |
| SG-1 | SUPPLY WALL GRILLE | LOUVERED | WALL | 8"x8" | VD | TITUS 350RS | 1-3 |

NOTES:
1. COORDINATE CEILING BORDER TYPE, COLORS, AND FINISHES OF DIFFUSERS, REGISTERS, AND GRILLES WITH ARCHITECT.
2. NOISE LEVEL FROM INDIVIDUAL DIFFUSER, REGISTER, OR GRILLE SHALL BE NO GREATER THAN 30dBA
3. PROVIDE DUCT TO WALL TRANSITION AS NECESSARY.

| OCCPANCY CATEGORY | |
|---|---|
| 2022 CALIFORNIA MECHANICAL CODE | 2022 CLASSIFORNIA TITLE 24 |
| PUBLIC ASSEMBLY SPACES - Libraries | Public Assembly Spaces - Libraries (reading rooms and stack areas) |
| OFFICE BUILDINGS - Office space, h | Office Buildings - Office space |
| PUBLIC ASSEMBLY SPACES - Libraries | Public Assembly Spaces - Libraries (reading rooms and stack areas) |
| GENERAL - Corridors, h | General - Corridors |
| OFFICE BUILDINGS - Office space, h | Office Buildings - Office space |
| OFFICE BUILDINGS - Office space, h | Office Buildings - Office space |
| OFFICE BUILDINGS - Office space, h | Office Buildings - Office space |
| OFFICE BUILDINGS - Office space, h | Office Buildings - Office space |
| OFFICE BUILDINGS - Main entry lobbies, h | Office Buildings - Main entry lobbies |
| GENERAL - Occupiable storage rooms for liquids or gels, h | General - Occupiable storage rooms for liquids or gels |
| HOTELS, MOTELS, RESORTS, DORMITORIES - Multipurpose assembly | Hotels, Motels, Resorts, Dormitories - Multipurpose assembly |
| RETAIL - Sales (except as below) | Retail - Sales (except as below) |

## OUTSIDE AIR VENTILATION SCHEDULE - CALIFORNIA MECHANICAL AND ENERGY CODE

| EQUIPMENT TAG | ROOM | Az FLOOR AREA (SF) | ASHRAE 62.1 OCCUPANT DENSITY DEFAULT (PEOPLE / 1000 SF) | ASHRAE 62.1 NUMBER OF OCCUPANT (# PEOPLE) | Pz ACTUAL NUMBER OF OCCUPANTS (# PEOPLE) | 2022 CALIFORNIA MECHANICAL CODE Rp PEOPLE OUTDOOR AIR RATE (CFM/ PERSON) | Ra AREA OUTDOOR RATE (CFM/SF) | Vbz OUTDOOR AIR REQUIRED (CFM) | Ez VENTILATION EFFECTIVENESS NUMBER | Voz CORRECTED OUTDOOR AIR REQUIRED (CFM) | 2023 CALIFORNIA ENERGY CODE (PEOPLE) Rp PEOPLE OUTDOOR AIR RATE (CFM/PERSON) | 2023 CALIFORNIA ENERGY CODE (PEOPLE) Voz OUTDOOR AIR REQUIRED (CFM) | 2023 CALIFORNIA ENERGY CODE (AREA) Ra AREA OUTDOOR RATE (CFM/SF) | 2023 CALIFORNIA ENERGY CODE (AREA) Voz OUTDOOR AIR REQUIRED (CFM) | Voz, max OUTDOOR AIR REQUIRED (CFM) | DESIGN OUTDOOR AIR (CFM) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RTU-1 | 01 - ADULT STACKS | 6347 | 10 | 63 | 53 | 5 | 0.12 | 889 | 0.8 | 1938 | 10 | 892 | 0.16 | 1092 | 1938 | 1937 |
| RTU-1 | 02 - CHECK OUT DESK | 1178 | 5 | 6 | 6 | 5 | 0.06 | 109 | 0.8 | 235 | 10 | 169 | 0.16 | 276 | 276 | 276 |
| RTU-1 | 03 - CHILDREN'S STACKS | 3159 | 10 | 32 | 32 | 5 | 0.12 | 509 | 0.8 | 973 | 10 | 475 | 0.16 | 973 | 973 | 973 |
| RTU-1 | 14 - CORRIDOR | 160 | 0 | 0 | 0 | 0 | 0.06 | 10 | 0.8 | 12 | 10 | 0 | 0.16 | 25 | 25 | 25 |
| RTU-1 | 13 - OFFICE | 120 | 5 | 1 | 1 | 5 | 0.06 | 12 | 0.8 | 15 | 10 | 15 | 0.16 | 19 | 19 | 19 |
| RTU-1 | 16 - STAFF | 1158 | 5 | 6 | 28 | 5 | 0.06 | 209 | 0.8 | 262 | 10 | 420 | 0.16 | 434 | 420 | 420 |
| RTU-1 | 15 - STAFF LOUNGE | 343 | 5 | 1 | 1 | 5 | 0.06 | 20 | 0.8 | 24 | 10 | 15 | 0.16 | 36 | 36 | 36 |
| RTU-1 | 22 - OFFICE | 92 | 5 | 0 | 1 | 5 | 0.06 | 10 | 0.8 | 12 | 10 | 15 | 0.16 | 12 | 15 | 15 |
| RTU-1 | 21 - LOBBY | 750 | 10 | 8 | 8 | 5 | 0.06 | 65 | 0.8 | 109 | 10 | 120 | 0.5 | 379 | 379 | 379 |
| RTU-1 | 23 - STORAGE | 110 | 2 | 0 | 0 | 5 | 0.12 | 14 | 0.8 | 17 | 10 | 0 | 0.15 | 17 | 17 | 17 |
| RTU-1 | 23 - MULTI-PURPOSE ROOM | 840 | 120 | 114 | 57 | 5 | 0.06 | 292 | 0.8 | 365 | 10 | 570 | 0.5 | 473 | 705 | 705 |
| RTU-1 | 26 - BOOKSTORE | 140 | 10 | 2 | 2 | 5 | 0.12 | 32 | 0.8 | 40 | 10 | 20 | 0.25 | 40 | 40 | 40 |
| | | | | | | | | | | | | | | SYSTEM TOTALS (CFM) | | 3642 |

GOLETA LIBRARY

CITY OF GOLETA

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Goleta, CA 93117

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kpff

INTERFACE ENGINEERING

JENSEN HUGHES

| No. | Description | Date |
|---|---|---|
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | ISSUED FOR PERMIT | 20 DEC 2024 |
| | 60% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| | ISSUED FOR PERMIT | 29 MAR 2025 |

Sheet Name: SCHEDULES - MECHANICAL

Project No. 1910

Sheet No. M002

STATE OF CALIFORNIA
## Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MCH-E

*This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.*

| | | | |
|---|---|---|---|
| Project Name: | Goleta Valley Library | Report Page: | (Page 1 of 11) |
| Project Address: | | Date Prepared: | 2025-09-20T12:40:53-04:00 |

### A. GENERAL INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city): | Goleta | 04 | Total Conditioned Floor Area: | 13500 |
| 02 | Climate Zone: | 6 | 05 | Total Unconditioned Floor Area: | 150 |
| 03 | Occupancy Type(s) within Project: | | 06 | # of Stories (Exclusive Roof/ Garage): | 1 |

▸ Library ▸ Office

### B. PROJECT SCOPE

*This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) in 141.0(b)2 and 180.2(b)2 for alterations.*

| 01 | 02 | 03 |
|---|---|---|
| Air System(s) | Wet System Components | Dry System Component |
| ☒ Heating Air System | ☐ Water Economizer | ☒ Air Economizer |
| ☒ Cooling Air System | ☐ Pumps | ☐ Electric Resistance Heat |
| Mechanical Controls | ☐ System Piping | ☒ Fan System: |
| ☒ Mechanical Controls (existing to remain, altered or new) | ☐ Cooling Towers | ☒ Ductwork (existing to remain, altered or new) |
| | ☐ Chillers: | ☒ Ventilation |
| | ☐ Boilers: | ☒ Zonal Systems/ Terminal Boxes |

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STATE OF CALIFORNIA
## Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MCH-E

| | | | |
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### C. COMPLIANCE RESULTS

*Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.*

| 01 | | 02 | | 03 | | 04 | | 05 | | 06 | | 07 | | 08 | 09 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| System Summary 110.1, 110.2, 140.4, 170.2(c) | AND | Pumps 14C.4(k), 170.2(c)4i | AND | Fans/ Economizers 140.4(c), 140.4(e), 170.2(d) | AND | System Controls 110.2, 120.2, 140.4(f), 170.2(e) | AND | Ventilation 120.1, 160.2 | AND | Terminal Box Controls 140.4(d), 170.2(c)4B | AND | Distribution 120.3, 140.4(l), 160.2, 160.3 | AND | Cooling Towers 110.2(e)2 | Compliance Results |
| (See Table B) | | (See Table C) | | (See Table M) | | (See Table I) | | (See Table J) | | (See Table K) | | (See Table L) | | (See Table M) | |
| Yes | AND | | AND | Yes | AND | Yes | AND | Yes | AND | Yes | AND | Yes | AND | | COMPLIES with Exceptional Conditions |
| Mandatory Measures Compliance (See Table Q for Details) | | | | | | | | | | | | | | | COMPLIES |

### D. EXCEPTIONAL CONDITIONS

*This table is auto-filled with user-editable comments because of selections made or data entered in tables throughout the form.*

The permit applicant has indicated on Table I that ventilation calculations have been attached or included elsewhere on the plans.

### E. ADDITIONAL REMARKS

*This table is only viewed/ made by the permit applicant to the Authority Having Jurisdiction.*

### F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| System Name | Quantity | System Serving | System Status | Space Type | Utilizing Recovered Heat |
| AC-1 | 1 | Multi-zone | New/ Addition | All Other Occupancies | ☐ |

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a)(b), 170.2(c)1 & 170.2(d)2 | | | | | | |
| | | | | Heating Output[1] | | Cooling Output[1] | | Load Calculations[2] | | |
| Name or Item Tag | Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)1ai | Equipment Type per Tables 110.2 and Title 20 | Installed Gas Available? 140.4(a) and 170.2(c)1i | Per Design (kBtu/h) | Rated (kBtu/h) | Super Heating Output (kBtu/h) | Sensible Per Design (kBtu/h) | Rated (kBtu/h) | Total Heating Load (kBtu/h) | Total Sensible Cooling Load (kBtu/h) |
| RTU-1 | Unitary AC/ Cond. (no elec. resistance) | AC, air-cooled pkg (3 phase) | Yes | | | | 226.5 | 250.1 | | 210.9 |
| AC-1 | Unitary Heat Pumps | Air-cooled, split (1phase) | Yes | 18.5 | 18.5 | 0 | 11 | 18 | 8 | 15 |

*[1]FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(b) and 170.2(c)1. Healthcare facilities are exempted.*
*[2]It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
*[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
*[4] Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

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STATE OF CALIFORNIA
## Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MCH-E

| | | | |
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### F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (Other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| | | Heating Mode | | | | Cooling Mode | | | |
| Name or Item Tag | Size Category (Btu/h) | Rating Condition (°F) | Efficiency Unit | Minimum Efficiency Required per Tables 110.2 / Title 20 | Design Efficiency | Efficiency Unit | Minimum Efficiency Required per Tables 110.2 / Title 20 | Design Efficiency | |
| RTU-1 | >=240,000 and <760,000 | | | | | IEER | 0.8 | 10.5 | |
| | | | | | | IEER | 13 | 16 | |
| AC-1 | <65,000 | | HSPF2 | 7.5 | 8 | SEER2 | 14.3 | 15.8 | |

### G. EXHAUST

*This section does not apply to this project.*

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### H. FAN SYSTEMS & AIR ECONOMIZERS

*This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(d)3, and 170.2(d)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.*

| System Name | RTU-1 | Quantity | 1 | Fan System Status | New | System Zoning | Multi-zone VAV systems | Serving Dwelling Units | Not Serving Dwelling Units | Fan System Airflow (CFM) | 9,000 | Site Elevation | 10 | Economizer | Differential Enthalpy |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 02 | 03 | 04 | | 05 | | OK | 07 | 08 | | 09 | | 10 | 11 |
| | | | | | | | | | Allowance | | Design | | | | |
| Fan Name or Item Tag | Fan Type | Qty | Component | | Airflow through Component (%) | | Water Gauge (in.w.g.) | Component Allowance (watt/cfm) | Fan Allowance (watt)/cfm)[1] | Design Electrical Input Power Method | | Motor Nameplate Horsepower | | Fan Electrical Input Power (kW) | |
| RTU-1 | Supply | 1 | Multizone/DX cooling coil or heat pump coil | | 100 | | | 0.114 | 0.004 | Manufacturer provided | | | | 3.19 | |
| | | | Economizer Return Damper | | 100 | | | 0.038 | | | | | | | |
| | | | Electric heat | | 100 | | | 0.038 | | | | | | | |
| | | | MERV 13-16 Filter upstream of thermal conditioning equipment | | 100 | | | 0.114 | | | | | | | |
| | | | System feeds a terminal unit with a fan with electrical input power < 1kW | | 100 | | | -0.1 | | | | | | | |
| Supply Fan Static Allowance (watt/cfm) | | 0.422 | Exhaust/Return/Relief/Transfer Fan Base Allowance (watt/cfm) | | 0 | | | Fan System Allowance (kW)[2] | | 7.74 | | Fan System Electrical Input Power (kW) | | 3.36 | |

*[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC25*
*[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.*
*[3] Fan system allowance includes fan systems base allowance.*
*[4] Filter pressure loss can only be counted once per fan system.*

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### H. FAN SYSTEMS & AIR ECONOMIZERS

*[1] Complex Fan Systems involves a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both*
*[2] Computer room economizers must meet requirements of 140.9(a) and will be documented on the MECC-PRC-E document.*

Fan Energy Index (FEI)

| 01 | 02 | 03 |
|---|---|---|
| Name or Item Tag: | FEI Exception | FEI |
| RTU-1 | Variable Air Volume Fan System: | 1.08 |

### I. SYSTEM CONTROLS

*This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D, 170.2(c)4L or requirements in 141.0(b)2E, 180.2(b)2 for altered space conditioning systems.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| System Name | System Zoning | Conditioned Floor Area Being Served (ft²) | Thermostats 110.2(b) & (c)[1], 120.2(a), 160.3(a)1A or 141.0(b)2E & 180.2(b)2 | Shut-Off Controls 110.2(e) & 160.3(a)2B | Isolation Zone Controls 120.2(g) & 160.3(a)2B | Demand Response 110.12 120.2(h) & 160.3(a)2B | Supply Air Temp Reset 140.4(f) & 170.2(c)4D | Window Interlocks per 140.4(n) & 170.2(c)4D | Direct Digital Controls (DDC) per 120.2 |
| RTU-1 | Multi-zone w/ DDC by zone | <= 25,000 ft² | EMCS | EMCS | N/A: Serves < 25k ft² | EMCS | Included | N/A: No operable windows | Provided |
| AC-1/HP-1 | Single zone | <= 25,000 ft² | Setback | N/A: 7 day per 120.2(e)1i | N/A: Serves < 25k ft² | N/A: Senso temp. sensitive process | N/A: Single Zone | N/A: No operable windows | N/A: Single Zone |

*[1]FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

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STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

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### J. VENTILATION AND INDOOR AIR QUALITY

*This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(a)1iii 140.4(g) and 140.4(q) for all nonresidential and hotel/motel and 121(a)residential/ 160.2, 160.2(a)10, 170.2(d)4K, 170.2(d)4O for high-rise residential occupancies. For dormitories, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.*

| | | |
|---|---|---|
| 01 | ☒ | Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table. |
| 02 | ☐ | Check the box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces. |
| | ☐ | |
| 03 | ☐ | Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)1. |

### K. TERMINAL BOX CONTROLS

*This table is used to demonstrate compliance with prescriptive zone control requirements in 140.4(d) & 170.2(c)4B.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Design | | | Deadband Compliance | | | Reheated, Recooled, Mixed Air Compliance | | | |
| Zone/System/VAV Box Name or Item Tag | Zonal Control Strategy per 140.4(d) | Peak Primary Airflow CFM | Primary Air in Deadband CFM | Reheated/ Recooled/ Mixed Airflow CFM | Outside Air CFM | 30% of Peak Primary Airflow CFM | Max Deadband Airflow CFM | 50% of Peak Primary Airflow | 1st Stage Modulates +/-20 °F and Maintains DB Rate? | 2nd Stage Modulates from DB Flow to Heating Max Flow? | Complies |
| VAV-1 | VAV with DDC @ zone | 945 | 130 | 330 | 330 | | 330 | 472.5 | Yes | Yes | Yes |
| VAV-2 | VAV with DDC @ zone | 1375 | 550 | 550 | 550 | | 550 | 687.5 | Yes | Yes | Yes |
| VAV-3 | VAV with DDC @ zone | 940 | 130 | 330 | 330 | | 330 | 470 | Yes | Yes | Yes |
| VAV-4 | VAV with DDC @ zone | 430 | 105 | 105 | 176 | | 176 | 215 | Yes | Yes | Yes |
| VAV-5 | VAV with DDC @ zone | 780 | 350 | 350 | 350 | | 350 | 350 | Yes | Yes | Yes |
| VAV-6 | VAV with DDC @ zone | 1485 | 740 | 740 | 740 | | 740 | 742.5 | Yes | Yes | Yes |
| VAV-7 | VAV with DDC @ zone | 695 | 340 | 340 | 340 | | 340 | 347.5 | Yes | Yes | Yes |
| VAV-8 | VAV with DDC @ zone | 1100 | 360 | 360 | 360 | | 360 | 550 | Yes | Yes | Yes |
| VAV-9 | VAV with DDC @ zone | 380 | 75 | 75 | 123 | | 123 | 150 | Yes | Yes | Yes |
| VAV-10 | VAV with DDC @ zone | 930 | 380 | 380 | 380 | | 380 | 465 | Yes | Yes | Yes |
| VAV-11 | VAV with DDC @ zone | 395 | 75 | 75 | 125 | | 125 | 152.5 | Yes | Yes | Yes |

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STATE OF CALIFORNIA
## Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MCH-E

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### L. DISTRIBUTION (DUCTWORK and PIPING)

*This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(j) for duct sealing.*

| | | |
|---|---|---|
| 01 | ☐ | Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed. |

Duct Leakage Testing

| The answers to the questions below apply to the following duct systems: | RTU-1 Supply Ductwork | | |
|---|---|---|---|
| | | MF/ Common Use: Duct leakage testing shall not exceed 6% per 4A7.5.3 required for these systems? | No |
| | | Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 4% per RA3.1.4 required for systems? | --- |
| | | Duct leakage testing per CMC Section 603.9.2 required for these systems? | Yes |

| | | |
|---|---|---|
| 11 | No | The scope of the project includes only duct systems serving healthcare facilities |
| 12 | No | Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system: |
| 13 | No | The space conditioning system serves less than 5,000 ft² of conditioned floor area. |
| 14 | No | The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system: |
| 15 | No | The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. |
| 16 | No | The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix RA3. |
| 17 | Yes | All ductwork and plenums with pressure class ratings shall be constructed to Seal Class A |
| 18 | No | All ductwork in an extension of an existing duct system |
| 19 | No | Ductwork serving individual dwelling unit |
| 20 | | ≤ 25 ft of new or replacement space conditioning ducts installed |
| 21 | R-6 | Duct Insulation R-value |
| 22 | No | Ductwork Existing To Remain |
| 23 | No | Duct System Connected To Altered Space Conditioning System |

Generated Date/Time: — Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance — Report Version: 2022.0.000 — Schema Version: rev 20220101 — Compliance ID: 147921-0325-0004 — Report Generated: 2025-09-20 09:40:57

STATE OF CALIFORNIA
## Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MCH-E

| | | | |
|---|---|---|---|
| Project Name: | Goleta Valley Library | Report Page: | (Page 8 of 11) |
| | | Date Prepared: | 2025-09-20T12:40:53-04:00 |

### M. COOLING TOWERS

*This section does not apply to this project.*

### N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

*Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4*

| Form/Title |
|---|
| NRCI-MCH-01-E - Must be submitted for all buildings |

### O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

*Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4*

| Form/Title | Systems Species To Be Field Verified |
|---|---|
| NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap. | |
| NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes". | AC-1/HP-1 |
| NRCA-MCH-05-A - Air Economizer Controls | RTU-1 |
| NRCA-MCH-07-A Supply Fan Variable Flow Controls | RTU-1 |
| NRCA-MLH-11-A Automatic Demand Shed Controls | RTU-1 |
| NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance | AC-1 |
| NRCA-MCH-16-A Supply Air Temperature Reset Controls | RTU-1 |
| NRCA-MCH-18-A Energy Management Control Systems | RTU-1 |

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STATE OF CALIFORNIA
## Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MCH-E

| | | | |
|---|---|---|---|
| Project Name: | Goleta Valley Library | Report Page: | (Page 9 of 11) |
| | | Date Prepared: | 2025-09-20T12:40:53-04:00 |

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Designer: JM | A+D
Consultant: kpff
Consultant: UPLA STUDIO
Consultant: INTERFACE ENGINEERING
Consultant: JENSEN HUGHES

| No. | Description | Date |
|---|---|---|
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | ISSUED FOR PERMIT | 20 DEC 2024 |
| | 80% CONSTRUCTION DOCUMENTS | 7 MAR 2025 |
| | ISSUED FOR PERMIT | 20 MAR 2025 |

Issued For:

Seal & Signature: EUGENE DE SOUZA, No. M38451, Exp: 06/30/25, MECHANICAL, STATE OF CALIFORNIA

Sheet Name: TITLE 24 - MECHANICAL

Project No: 24.01
Drawn By: HWK
Checked By: EDS
Scale:

Sheet No: M003

STATE OF CALIFORNIA
**Mechanical Systems** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | MECC-MCH-E |
|---|---|---|
| Project Name: Goleta Valley Library | Report Page: | (Page 10 of 11) |
| | Date Prepared: | 2025-03-20T13:40:51-04:00 |

**P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

*There are no MECV items required for this project.*

**Q. MANDATORY MEASURES DOCUMENTATION LOCATION**

*This table is used to indicate where mandatory measures are documented in the plans set or construction documentation.*

| Q1 | | Q2 |
|---|---|---|
| Compliance with Mandatory Measures documented through MCH Mandatory Measures Worksheet: | No | Plan sheet or construction document location |
| Q3 | | Q4 |
| **Mandatory Measure** | | **Plan sheet or construction document location** |
| Heating Equipment Efficiency per 110.1 | | M002 |
| Cooling Equipment Efficiency per 110.1 | | M002 |
| Furnace Standby Loss Control per 110.2(b) | | N/A |
| Duct Insulation per 120.4 | | Specification 230700 |
| Heat Pump with Supplemental Electric Resistance Heater Controls per 110.2(b) | | M002 |
| The air duct and plenum system is designed per 120.4(k)-(f) | | 233103 |
| Kitchen range hoods shall be rated for sound in accordance with Section 7.1 of ASHRAE 62.1 | | N/A |

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Report Version: 2022.0.000 | Compliance ID: 147931-0325-0004
Schema Version: rev 20220101 | Report Generated: 2025-03-20 09:40:57

STATE OF CALIFORNIA
**Mechanical Systems** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | MECC-MCH-E |
|---|---|---|
| Project Name: Goleta Valley Library - | Report Page: | (Page 11 of 11) |
| Project Address: | Date Prepared: | 2025-03-20T12:40:51-04:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| Documentation Author Name: | Documentation Author Signature: |
|---|---|
| Hugh Kittler | |
| Company: | Signature Date: |
| Interface Engineering, Inc. | |
| Address: | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: | Phone: |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| Responsible Designer Name: | Responsible Designer Signature: |
|---|---|
| Company: | Date Signed: |
| Address: | License: |
| City/State/Zip: | Phone: |

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Generated Date/Time: | Documentation Software: Energy Code Ace
Report Version: 2022.0.000 | Compliance ID: 147931-0325-0004
Schema Version: rev 20220101 | Report Generated: 2025-03-20 09:40:57

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Designer: JM | A+D
[illegible]
(310) 684-3220
www.JMADstudio.com

Consultant: kpff

Consultant: UPLA STUDIO

Consultant: INTERFACE ENGINEERING

Consultant: JENSEN HUGHES

| Issued For: | |
|---|---|
| No. Description | Date |
| 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| ISSUED FOR PERMIT | 20 DEC 2024 |
| 90% CONSTRUCTION DOCUMENTS | 11 MAR 2025 |
| ISSUED FOR PERMIT | 20 MAR 2025 |

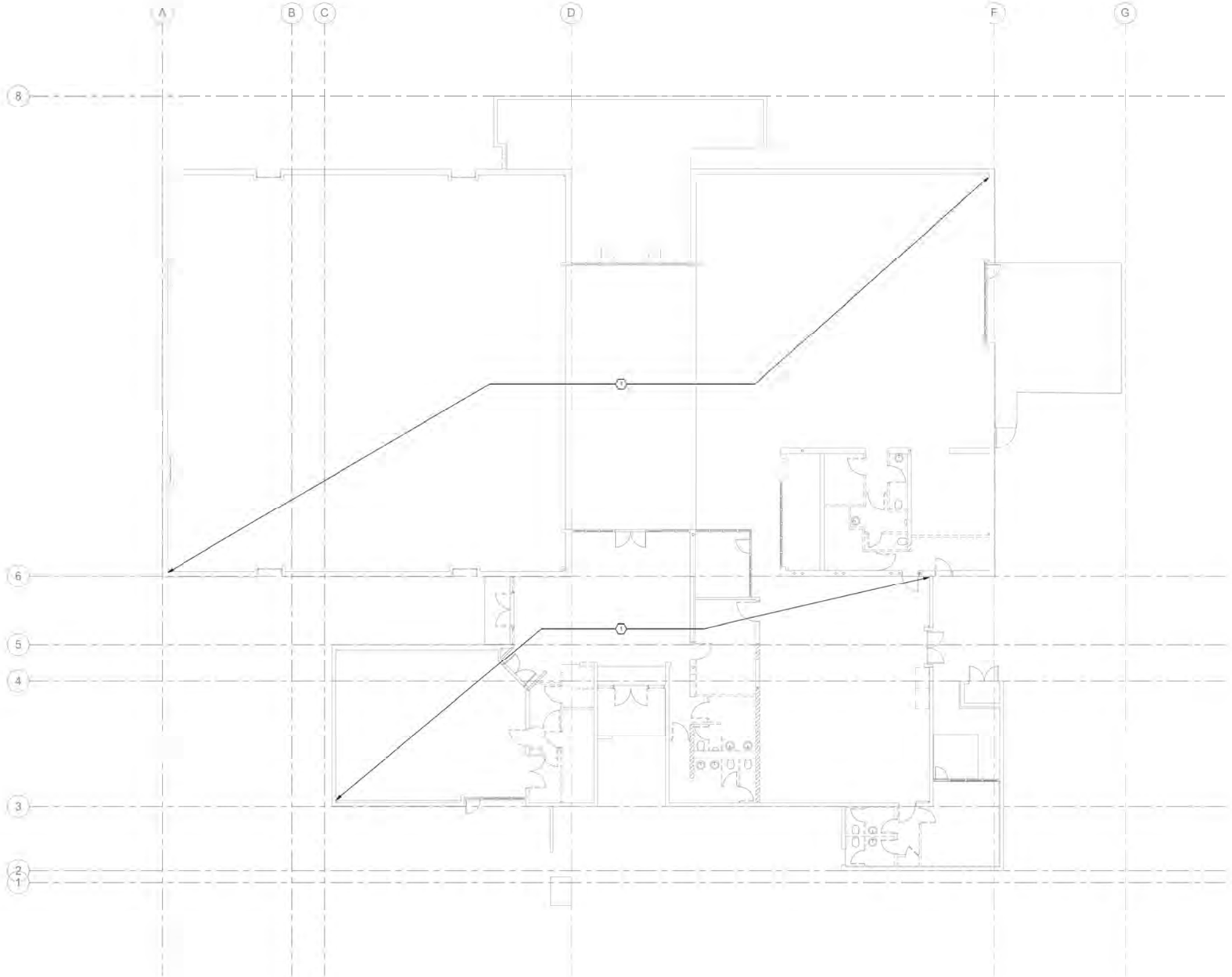

Sheet Name: TITLE 24 - MECHANICAL

Project No: 1410
Drawn By: HHK
Checked By: EDS

Sheet No: M004

## SHEET KEYNOTES

1 REMOVE EXISTING DUCTWORK, AIR DEVICES, MECHANICAL EQUIPMENT, AND ASSOCIATED [illegible]




1 FIRST FLOOR DEMOLITION PLAN - MECHANICAL

1/8" = 1'-0"

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UPLA

INTERFACE ENGINEERING

JENSEN HUGHES

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|---|---|
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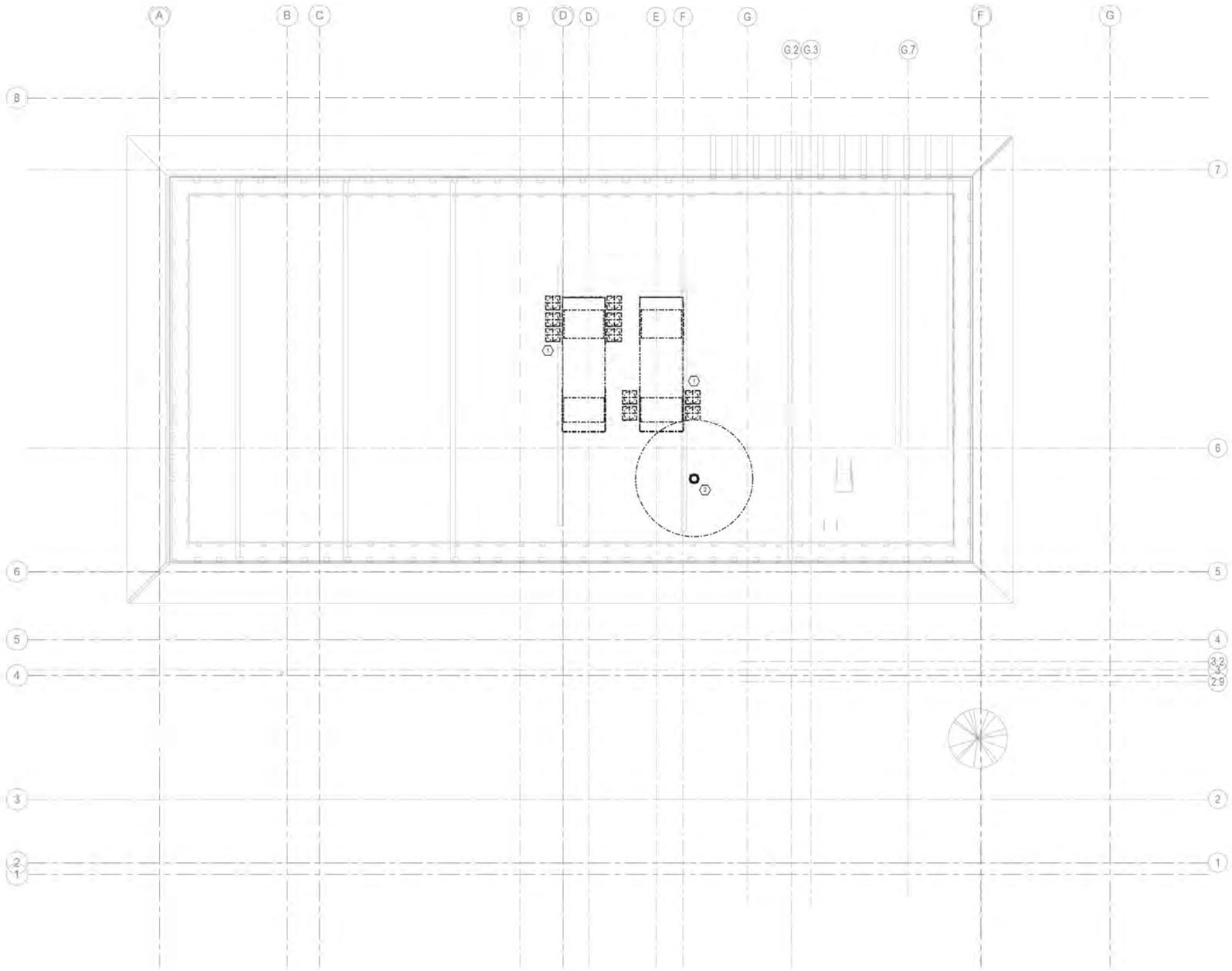
| ISSUED FOR PERMIT | 20 DEC 2024 |
| 50% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| ISSUED FOR PERMIT | 29 MAR 2025 |

FIRST FLOOR DEMOLITION PLAN - MECHANICAL

MD200

## SHEET KEYNOTES

1. REMOVE EXISTING ROOFTOP AIR HANDLER AND ASSOCIATED CONDENSING UNITS. REMOVE EXISTING ROOF CURB AND PATCH ROOF OPENINGS AS REQUIRED. REMOVE ASSOCIATED WIRING AND CONTROLS.
2. REMOVE EXISTING ROOF EXHAUST FAN, ALONG WITH ASSOCIATED WIRING AND CONTROLS. PATCH ROOF OPENING AS REQUIRED.




1 ROOF DEMOLITION PLAN - MECHANICAL

1/8" = 1'-0"

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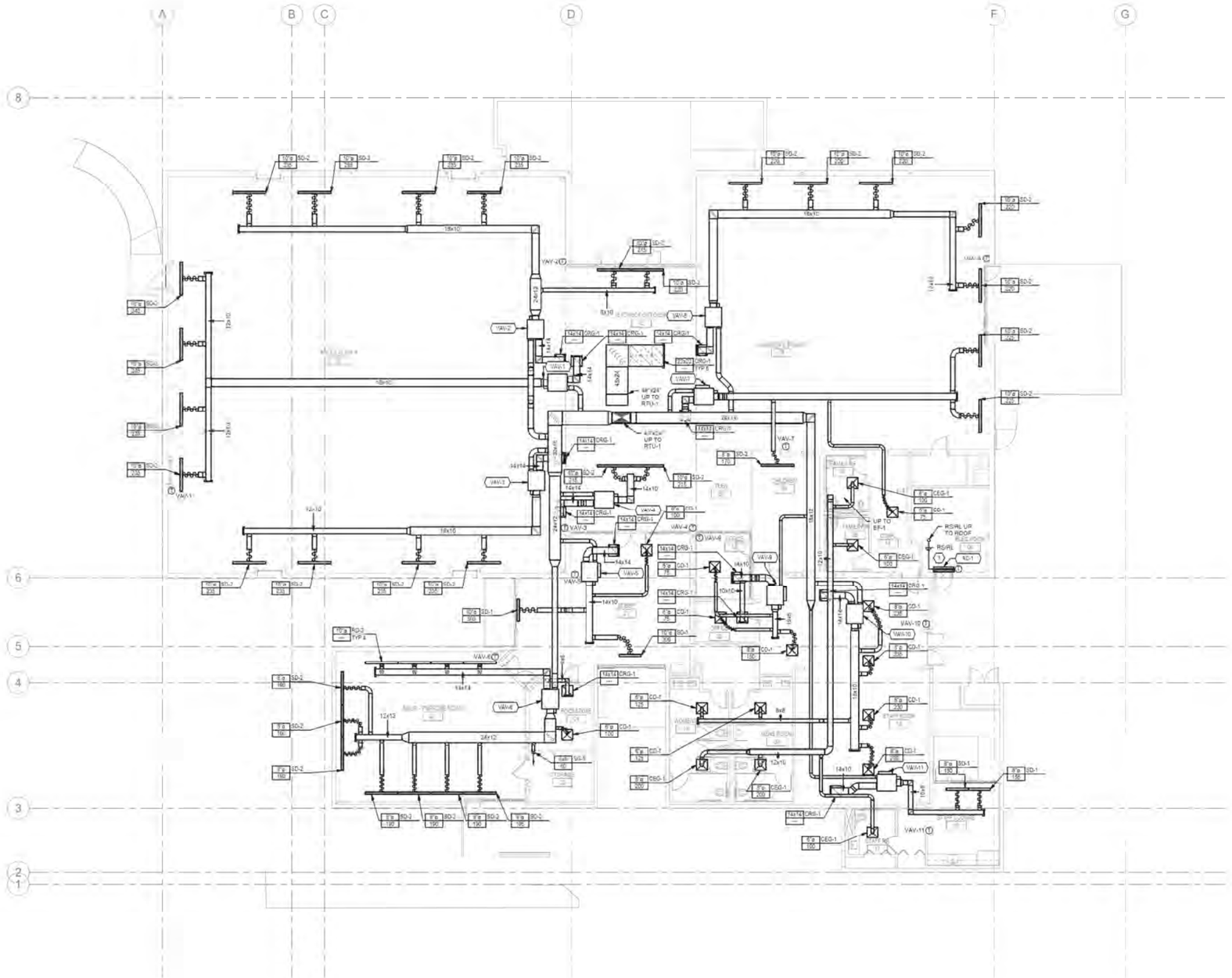
| 50% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| ISSUED FOR PERMIT | 29 MAR 2025 |

ROOF DEMOLITION PLAN - MECHANICAL

MD201

## SHEET KEYNOTES

1. NEW WALL MOUNTED AC UNIT INSTALLED ABOVE DOOR. COORDINATE EXACT LOCATION WITH ROOM LAYOUT. SEE PLUMBING DRAWINGS FOR CONDENSATE DRAIN PIPING.




1 FIRST FLOOR PLAN - MECHANICAL

1/8" = 1'-0"

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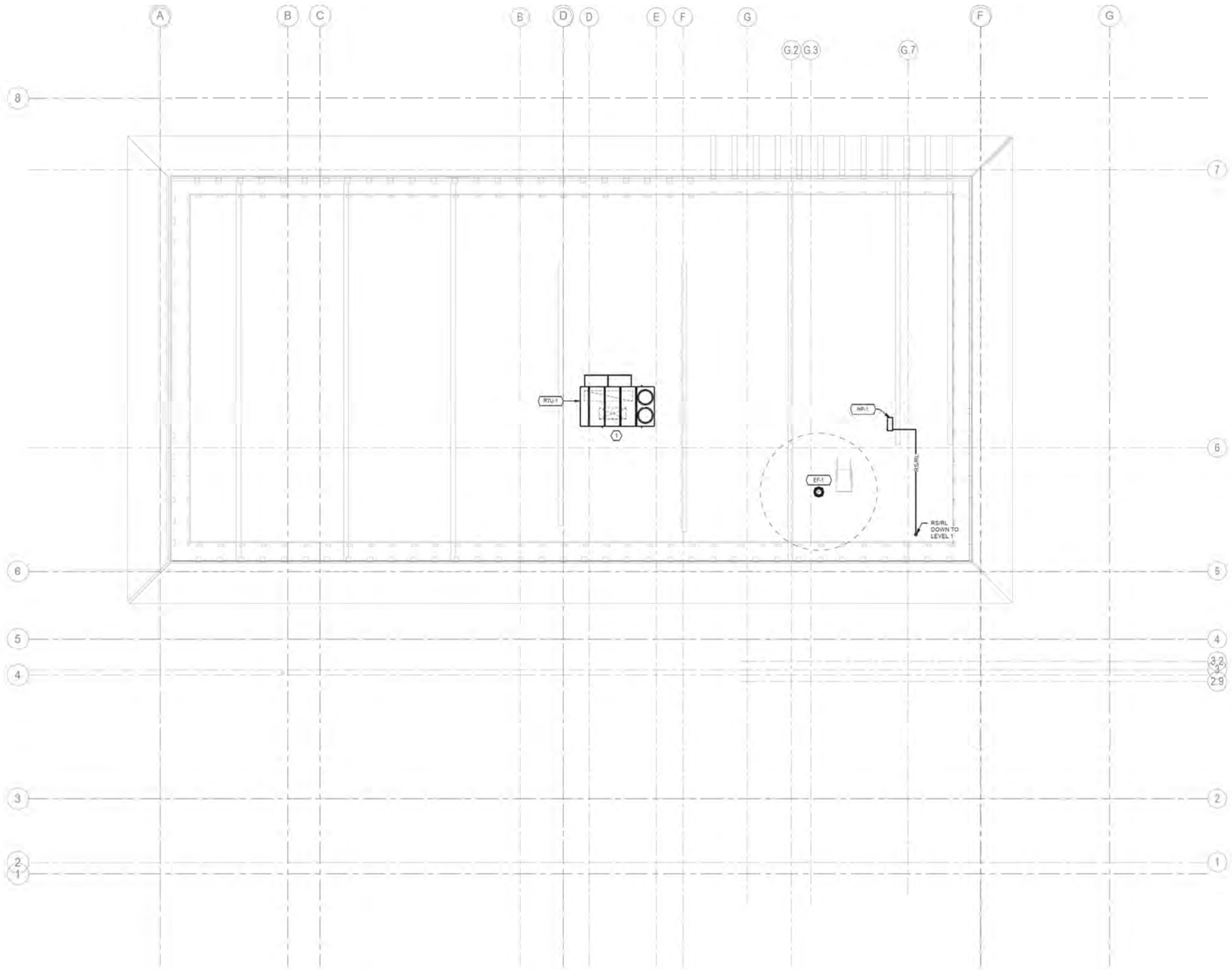
| 50% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| ISSUED FOR PERMIT | 29 MAR 2025 |

FIRST FLOOR PLAN - MECHANICAL

M200

## SHEET KEYNOTES

1 NEW ROOFTOP UNIT. COORDINATE EXACT LOCATION WITH ROOF AND STRUCTURAL CONDITIONS. SEE PLUMBING DRAWINGS FOR CONDENSATE DRAIN PIPING




1 ROOF PLAN - MECHANICAL

0 4' 8' 16'
1/8" = 1'-0"

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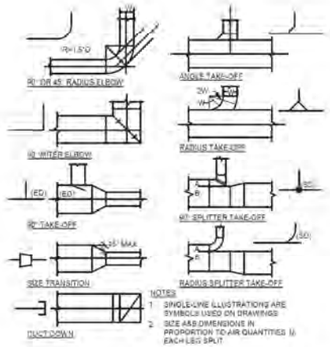
| | ISSUED FOR PERMIT | 28 MAR 2025 |

EUGENE DE SOUZA
No. M84451
Exp. 06-30-26
CIVIL

ROOF PLAN - MECHANICAL

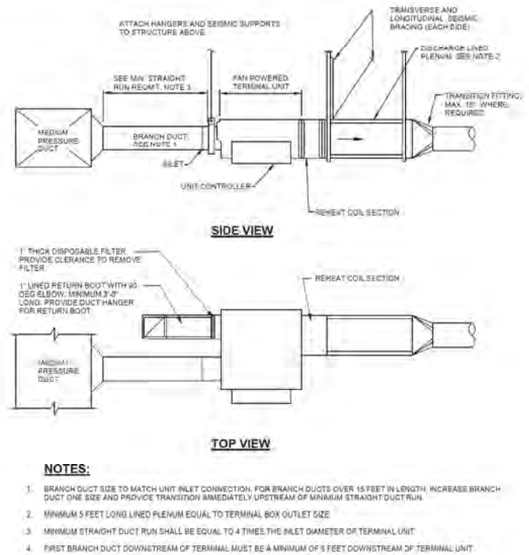
Project No.: 24.05
Drawn By: HWE
Checked By: EDS
Scale: 1/8" = 1'-0"

Sheet No.: M201




## 4 RECTANGULAR DUCT DETAIL

NO SCALE

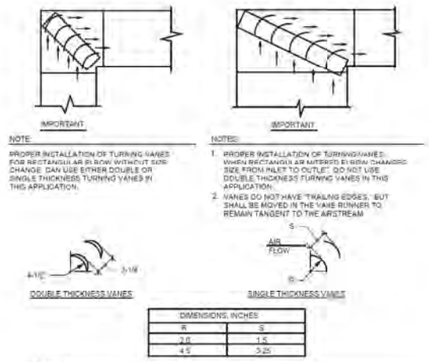



**NOTES:**

1. BRANCH DUCT SIZE TO MATCH UNIT INLET CONNECTION. FOR BRANCH DUCTS OVER 15 FEET IN LENGTH, INCREASE BRANCH DUCT ONE SIZE AND PROVICE TRANSITION IMMEDIATELY UPSTREAM OF MINIMUM STRAIGHT DUCT RUN.
2. MINIMUM 5 FEET LONG LINED PLENUM EQUAL TO TERMINAL BOX OUTLET SIZE
3. MINIMUM STRAIGHT DUCT RUN SHALL BE EQUAL TO 4 TIMES THE INLET DIAMETER OR TERMINAL UNIT.
4. FIRST BRANCH DUCT DOWNSTREAM OF TERMINAL MUST BE A MINIMUM OF 5 FEET DOWNSTREAM OF TERMINAL UNIT.

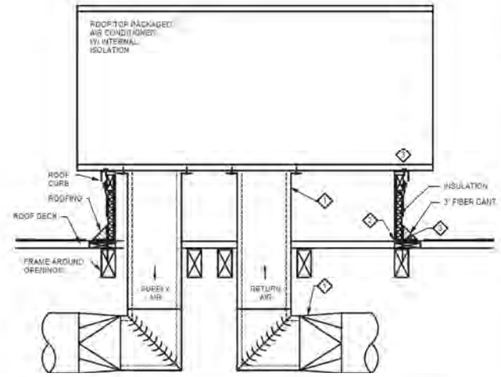
## 3 TYPICAL SERIES FAN POWERED TERMINAL UNIT DUCTING

NO SCALE




## 2 TURNING VANE DETAILS

12" = 1'-0"




NOTES:

1. SQUARE TO ROUND TRANSITION CAN BE IN VERTICAL WITH 90° ROUND ELBOW AT BOTTOM.
2. PROVIDE SHIMS AS NECESSARY TO LEVEL CURB.
3. SEISMICALLY FASTEN CURB TO STRUCTURE AND UNIT TO CURB.
4. NO "CAP AND TAP" ALLOWED AT UNIT CONNECTIONS.

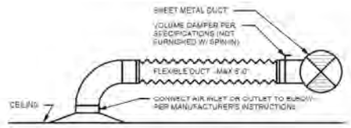
## 1 RTU MOUNTING & DUCT THRU ROOF

12" = 1'-0"




## 7 ROOF EXHAUST FAN

NO SCALE



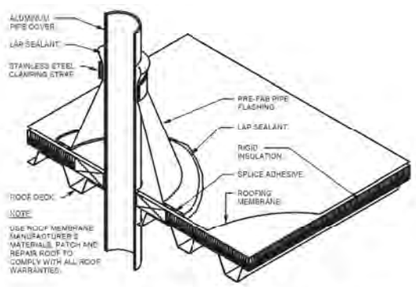

## 6 AIR INLET OR OUTLET ROUND NECK

NO SCALE



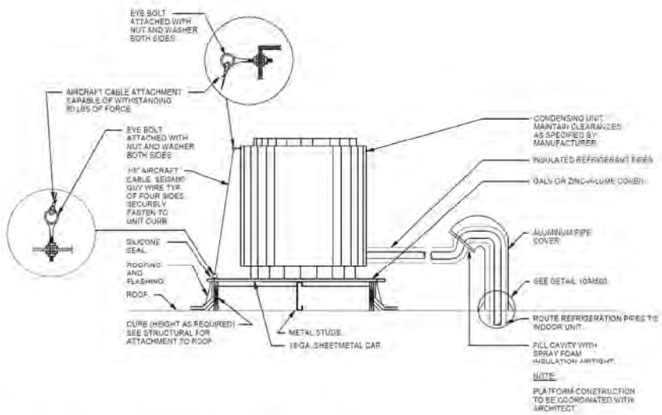

## 5 LINEAR SUPPLY GRILLE

NO SCALE



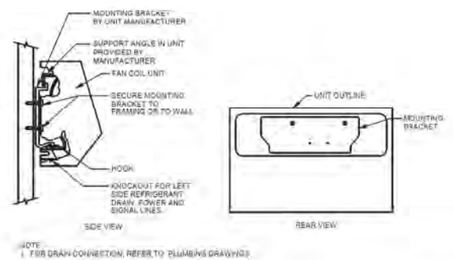

## 10 REFRIGERANT PIPING COVER PENETRATION

NO SCALE




## 9 ROOFTOP CONDENSING UNIT CURB

NO SCALE




## 8 WALL MOUNTED DUCTLESS SPLIT SYSTEM MOUNTING DETAIL

NO SCALE

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INTERFACE ENGINEERING

JENSEN HUGHES

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| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | ISSUED FOR PERMIT | 20 DEC 2024 |
| | 60% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| | ISSUED FOR PERMIT | 09 MAY 2025 |

EUGENE DE SOUZA
No. M34451
Exp 06/30/26
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

DETAILS - MECHANICAL

Project No. 1110
Drawn By HWK
Checked by EDS

Sheet No. M500

# PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

## Abbreviations

| | |
|---|---|
| (A) | ABANDON IN PLACE |
| AFF | ABOVE FINISHED FLOOR |
| AP | ACCESS PANEL |
| AR | ACID-RESISTANT |
| & | AND |
| A | AQUASTAT, ARCHITECT, ANCHOR, AMPHERE |
| @ | AT |
| BFP | BACKFLOW PREVENTER |
| BV | BALANCING VALVE |
| BFF | BELOW FINISHED FLOOR |
| BF | BLIND FLANGE |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| BLDG | BUILDING |
| CV | CHECK VALVE |
| CO | CLEANOUT |
| CW | COLD WATER |
| CD | CONDENSATE DRAIN |
| CONT | CONTINUATION |
| CPH | CUBIC FEET PER HOUR |
| CFS | CUBIC FEET PER SECOND |
| (X) | DEMOLISH |
| DW | DISHWASHER, DOMESTIC WATER |
| DET | DOMESTIC EXPANSION TANK |
| DCVA | DOUBLE CHECK VALVE ASSEMBLY |
| DN | DOWN |
| DS | DOWNSPOUT |
| DSN | DOWNSPOUT NOZZLE |
| D | DRAIN |
| DFU | DRAINAGE FIXTURE UNIT |
| DWV | DRAINAGE, WASTE AND VENT |
| DF | DRINKING FOUNTAIN |
| EWC | ELECTRIC WATER COOLER |
| EWH | ELECTRIC WATER HEATER |
| ELECT | ELECTRICAL |
| EDV | ELECTRONIC SOLENOID VALVE |
| EEW | EMERGENCY EYE WASH |
| ESH | EMERGENCY SHOWER |
| (E) | EXISTING |
| EJ | EXPANSION JOINT |
| FT | FEET |
| FPS | FEET PER SECOND |
| FFE | FINISHED FLOOR ELEVATION |
| F | FIRE; FAHRENHEIT |
| FC | FLEXIBLE CONNECTOR |
| FL | FLOOR |
| FCO | FLOOR CLEANOUT |
| FD | FLOOR DRAIN |
| FS | FLOOR SINK, FLOW SWITCH |
| FV | FLUSH VALVE |
| ' | FOOT, FEET |
| (F) | FUTURE |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| GD | GARBAGE DISPOSER, GARAGE DRAIN |
| GWH | GAS WATER HEATER |
| GW | GREASE WASTE |
| HD | HEAD, HUB DRAIN |
| HP | HEAT PUMP, HORSE POWER, HOUSEKEEPING PAD |
| HVAC | HEATING, VENTILATING AND AIR CONDITIONING |
| HZ | HERTZ |
| HB | HOSE BIBB |
| HW | HOT WATER |
| HWFU | HOT WATER FIXTURE UNIT |
| HWR | HOT WATER RETURN |
| IN, " | INCHES |
| IW | INDIRECT WASTE |
| INV | INVERT ELEVATION |
| KW | KILOWATT |
| L | LAVATORY |
| MW | MAKE-UP WATER |
| MAX | MAXIMUM |
| HG | MERCURY |
| MIN | MINIMUM |
| MX | MIXING VALVE |
| MS | MOP SINK |
| MH | MOUNTING HEIGHT, MANHOLE |
| (N) | NEW |
| NPCW | NON-POTABLE COLD WATER |
| NOP | NORMALLY OPEN |
| N | NORTH |
| N/A | NOT APPLICABLE |
| NIC | NOT IN CONTRACT |
| NTS | NOT TO SCALE |
| # | NUMBER |
| NO. | NUMBER |
| OD | OVERFLOW DRAIN, OUTSIDE DIAMETER |
| OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED |
| OFOI | OWNER FURNISHED, OWNER INSTALLED |
| PH | PHASE |
| PLBG | PLUMBING |
| P | PLUMBING, PUMP |
| POC | POINT OF CONNECTION |
| PSI | POUNDS PER SQUARE INCH |
| PD | PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE |
| PG | PRESSURE GAUGE |
| PRV | PRESSURE REDUCING VALVE |
| PS | PRESSURE SWITCH |
| QTY | QUANTITY |
| RWL | RAINWATER LEADER |
| RPBP | REDUCED PRESSURE BACKFLOW PREVENTER |
| RV | RELIEF VENT, RELIEF VALVE |
| (R) | RELOCATE / RELOCATED LOCATION |
| RPM | REVOLUTIONS PER MINUTE |
| RD | ROOF DRAIN |
| SAN | SANITARY |
| SJ | SEISMIC JOINT |
| SB | SERVICE BOX |
| SS | SERVICE SINK |
| SHT | SHEET |
| SA | SHOCK ARRESTOR |
| SH | SHOWER |
| SOV | SHUT OFF VALVE |
| S, SK | SINK |
| SF | SQUARE FEET |
| SD | STORM DRAIN |
| SP | SUMP PUMP, STATIC PRESSURE |
| TEMP | TEMPERATURE |
| T&P | TEMPERATURE AND PRESSURE |
| T | TEMPERATURE, THERMOMETER |
| TP | TRAP PRIMER, TOTAL PRESSURE |
| TD | TRENCH DRAIN |
| TYP | TYPICAL |
| U, UR | URINAL |
| V | VACUUM, VENT, VOLT |
| VFD | VARIABLE FREQUENCY DRIVE |
| VS | VENT STACK |
| VTR | VENT THRU ROOF |
| WCO | WALL CLEANOUT |
| WB | WASHER BOX |
| W | WASTE |
| WS | WASTE STACK |
| WC | WATER COLUMN |
| WC | WATER COLUMN, WATER CLOSET |
| WHA | WATER HAMMER ARRESTOR |
| WH | WATER HEATER, WALL HYDRANT |
| WSFU | WATER SUPPLY FIXTURE UNIT |
| W/ | WITH |

## Control Symbols

- ANALOG INPUT TO DDC PANEL
- ANALOG OUTPUT FROM DDC PANEL
- DIFFERENTIAL PRESSURE SENSOR
- DIGITAL INPUT CURRENT TRANSFORMER
- DIGITAL INPUT TO DDC PANEL
- DIGITAL OUTPUT FROM DDC PANEL
- DIGITAL OUTPUT START/STOP SIGNAL
- FLOW METER
- LINE VOLTAGE THERMOSTAT

## General

- DETAIL NUMBER AND SHEET LOCATION
- KEYED NOTE
- SECTION NUMBER AND SHEET LOCATION
- DEMOLISH
- EXISTING WORK
- NEW WORK
- PIPE OR CONDUIT BELOW GRADE
- CONTINUATION
- EXTENT OF DEMOLITION
- PIPE BELOW GRADE
- POINT OF CONNECTION
- FIXTURE TAG (LEVEL BELOW FIXTURE)
- FOOD SERVICE EQUIPMENT / CALCULATION TAG
- HVAC EQUIPMENT IDENTIFICATION (REF. ONLY)
- PLUMBING EQUIPMENT IDENTIFICATION

## Piping Fittings

- ACCESS PANEL
- AQUASTAT
- AREA DRAIN
- BLIND FLANGE
- CAP
- CLEANOUT TO GRADE
- CONCENTRIC REDUCER
- DOWNSPOUT NOZZLE
- ECCENTRIC REDUCER
- EXPANSION JOINT
- FLEXIBLE CONNECTION
- FLOOR CLEANOUT
- FLOOR DRAIN
- FLOOR SINK
- FLOW DIRECTION
- FLOW SWITCH
- HOSE BIBB / WALL HYDRANT
- HUB DRAIN
- METER
- OVERFLOW ROOF DRAIN
- PEX MANIFOLD
- PIPE DROP
- PIPE RISE
- PRESSURE GAUGE WITH COCK
- PUMP
- ROOF DRAIN
- SHOCK ABSORBER / WATER HAMMER ARRESTOR
- STRAINER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- TEMPERATURE SENSOR
- TEST PORT
- THERMOMETER
- TRAP PRIMER MANIFOLD
- TRENCH DRAIN
- UNION
- VACUUM RELIEF
- VENT THROUGH ROOF
- WALL CLEANOUT

## Piping Systems

- 140°F/54 HOT WATER PIPING
- 140°F/54 HOT WATER RETURN PIPING
- ACID RESISTANT VENT PIPING
- ACID RESISTANT WASTE ABOVE GRADE
- ACID RESISTANT WASTE BELOW GRADE
- COLD WATER PIPING
- COMPRESSED AIR PIPING
- CONDENSATE / INDIRECT DRAIN PIPING
- DE-IONIZED WATER RETURN
- DE-IONIZED WATER SUPPLY
- DISTILLED WATER
- FIRE PROTECTION PIPING
- GAS VENT PIPING
- GREASE WASTE ABOVE GRADE OR FINISHED FLOOR
- GREASE WASTE BELOW GRADE OR FINISHED FLOOR
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- IRRIGATION
- NATURAL GAS PIPING, 2 LB
- NATURAL GAS PIPING, 7" WC PRESSURE
- NON-POTABLE COLD WATER PIPING
- NON-POTABLE HOT WATER PIPING
- OVERFLOW DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- PUMPED DISCHARGE
- REVERSE OSMOSIS WATER
- SANITARY VENT PIPING
- SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR
- SOLAR HOT WATER
- SOLAR HOT WATER RETURN
- STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR
- TEMPERED WATER PIPING
- TRAP PRIMER PIPING

## Valves

- BACKFLOW PREVENTER
- BACKWATER VALVE
- BALANCING VALVE
- CHECK VALVE
- EARTHQUAKE GAS VALVE
- ELECTRONIC SOLENOID VALVE
- GLOBE VALVE
- HOSE END DRAIN VALVE
- NATURAL GAS PIPING CONNECTION ASSEMBLY
- PRESSURE REDUCING VALVE
- SHUTOFF VALVE, GENERAL

# GENERAL PLUMBING NOTES

A. ALL WORK UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT STATE, COUNTY AND NATIONAL CODES AND STANDARDS ADOPTED BY THE LOCAL JURISDICTIONS INCLUDING APPLICABLE AMENDMENTS.

B. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE AND SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES TO BE CROSSED OR CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT WITH THE DETAILS/PLANS.

C. COORDINATE INSTALLATION OF PIPING, FIXTURES, EQUIPMENT AND DWV LINE BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEMS INSTALLATION.

D. COORDINATE FIXTURES, EQUIPMENT, PIPE ROUGH-IN/CONNECTION LOCATIONS AND DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.

E. VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING.

F. ALL WASTE PIPE TO SLOPE MINIMUM OF 1/4" PER FOOT UNLESS OTHERWISE NOTED.

G. PROVIDE WATER HAMMER ARRESTERS TO DOMESTIC WATER LINES SERVING QUICK ACTING VALVES SUCH AS THE FOLLOWING:
1. FLUSH VALVES.
2. SOLENOID VALVES TO ICEMAKERS AND DISHWASHER.
3. SENSOR FAUCETS.
4. SINGLE HANDLE FAUCETS.

H. ALL FLOOR DRAINS, FLOOR SINKS, AND OTHER INDIRECT WASTE RECEPTORS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM SHALL BE PROVIDED WITH AN AUTOMATIC TRAP PRIMER.

I. INSTALLATION OF THE DOMESTIC HOT WATER SYSTEM SHALL COMPLY WITH THE MANDATORY REQUIREMENTS OF SECTION 110.3 OF THE CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.

J. DRAINAGE PIPING SERVING FIXTURES THAT ARE LOCATED BELOW THE ELEVATION OF THE NEXT UPSTREAM MANHOLE SHALL BE PROVIDED WITH A BACKWATER VALVE. FIXTURES ABOVE THAT LEVEL SHALL NOT DISCHARGE THROUGH THIS VALVE.

K. SEWER VENTS SHALL TERMINATE AT LEAST 10 FEET HORIZONTALLY **(25 FEET FOR OSHPD PROJECTS)** FROM AND AT LEAST 3 FEET ABOVE OPENABLE WINDOW, DOOR OPENING, AIR INTAKE OR VENT SHAFT. VENT MUST BE AT LEAST 3 FEET FROM PROPERTY LINE.

L. PRIOR TO BEING CONCEALED, PIPING PENETRATIONS AT THE FIRE RESISTIVE ASSEMBLIES SHALL BE INSPECTED TO VERIFY COMPLIANCE WITH THE FIRE RESISTANCE RATING.

M. INDIRECT WASTE SHALL DISCHARGE TO THE BUILDING DRAINAGE THROUGH AN APPROVED AIR GAP OR AIR BREAK WITH A MINIMUM 1" DISTANCE FROM THE LOWEST POINT OF INDIRECT PIPE TO THE FLOOD LEVEL RIM OF THE RECEPTOR.

# SHEET INDEX



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REGISTERED PROFESSIONAL ENGINEER
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No. M34451
Exp: 06/30/25
MECHANICAL
STATE OF CALIFORNIA

SYMBOL LIST AND GENERAL NOTES - PLUMBING

Project No.: 2455
Drawn by: MJ/BJ
Checked by: EDeSouza
Scale: 1/2" = 1'-0"

Sheet No.: P001

## HYDRAULIC CALCULATIONS

| | | | | |
|---|---|---|---|---|
| PROJECT NAME: | GOLETA LIBRARY | | | |
| PROJECT ADDRESS: | 500 N FAIRVIEW AVE | | | |
| TYPE OF PRESSURE: | WATER MAIN: | | | |
| EST. MAX. COLD WATER DEMAND | | 68 | FU (F.V.) | 88 GPM |
| EST. AVAILABLE PRESSURE (CITY MAIN) | | | | 78.0 PSI |
| PRV OUTLET PRESSURE | | | | 70.9 PSI |
| EST. LOSS THRU (E) WATER METER | | | | 3.6 PSI |
| EST. LOSS THRU (E) R.P.B.P. | | | | 14.8 PSI |
| RESIDUAL PRESSURE AT FURTHEST FIXTURE | | | | 25.8 PSI |
| STATIC GAIN (LOSS - HEIGHT) | 15 | FT | X 0.4346 = | 6.5 PSI |
| ALLOWABLE PRESSURE FOR FRICTION LOSS = | | | | 39.6 PSI |
| TOTAL DEVELOPED LENGTH = | 300 | FT | X 1.25 = | 375 FT |
| ALLOWABLE LOSS/100 FT. LENGTH = | 10.6 | | | PSI |

## PLUMBING FIXTURE UNIT SCHEDULE

| FIXTURE | TAG | QTY | WASTE DFU/ EACH | WASTE TOTAL DFU | COLD WATER CWFU/ EACH | COLD WATER TOTAL CWFU | HOT WATER HWFU/ EACH | HOT WATER TOTAL HWFU |
|---|---|---|---|---|---|---|---|---|
| WATER CLOSET (FLUSH VALVE) | WC-1, WC-2 | 9 | 4.0 | 36.0 | 5.0 | 45.0 | — | — |
| URINAL (FLUSH VALVE) | UR-1, UR-2 | 2 | 2.0 | 4.0 | 4.0 | 8.0 | — | — |
| LAVATORY | L-1, L-2, L-3 | 7 | 1.0 | 7.0 | 1.0 | 7.0 | 0.75 | 5.25 |
| BREAKROOM SINK | SK-1, SK-2 | 2 | 2.0 | 4.0 | 1.5 | 3.0 | 1.125 | 2.25 |
| DRINKING FOUNTAIN (ASSEMBLY) | DF-1 | 1 | 0.5 | 0.5 | 0.5 | 0.5 | — | — |
| DISHWASHER | DW-1 | 1 | 1.0 | — | 1.5 | 1.5 | 1.5 | 1.5 |
| MOP SINK | MS-1 | 1 | 3.0 | 3.0 | 3.0 | 3.0 | 2.25 | 2.25 |
| 2" FLOOR DRAIN | FD-1 | 7 | 2.0 | 14.0 | — | — | — | — |
| TOTAL: | | 30 | | 68.5 | | 68.0 | | 11.25 |

NOTES:

## COLD AND HOT WATER PIPE SIZING CHART

| Size | COLD WATER FU's (F.V.) | COLD WATER GPM | COLD WATER FU's (F.T.) | COLD WATER GPM | HOT WATER FU's | HOT WATER GPM |
|---|---|---|---|---|---|---|
| 1/2" | 8 | 8 | 3 | 3 | 3 | 3 |
| 3/4" | 0 | 0 | 10 | 8 | 8 | 7 |
| 1" | 0 | 0 | 24 | 17 | 16 | 12 |
| 1-1/4" | 14 | 21 | 56 | 31 | 26 | 18 |
| 1-1/2" | 35 | 44 | 103 | 44 | 46 | 27 |
| 2" | 192 | 78 | 254 | 76 | 119 | 46 |
| 2-1/2" | 329 | 115 | 455 | 115 | 245 | 74 |
| 3" | 686 | 185 | 719 | 185 | 406 | 105 |
| 3-1/2" | 1091 | 220 | 1091 | 220 | 580 | 140 |
| 4" | 1668 | 290 | 1668 | 280 | 840 | 185 |
| PIPE MATERIAL: | TYPE 'L' COPPER | | DESIGN FRICTION LOSS: | | 9 | PSI / 100FT. |

ALLOWABLE WATER SUPPLY VELOCITY SHALL NOT EXCEED 8 FT/S FOR CW & 5 FT/S FOR HW.

## HOT WATER DEMAND CALCULATIONS

| FIXTURE | TAG | HOT WATER DEMAND PER UNIT (GPH) | QUANTITY | HOT WATER DEMAND (GPH) |
|---|---|---|---|---|
| BASIN (LAVATORY PUBLIC) | LPT | 6 | 7 | 42 |
| SERVICE SINK | MS-1 | 20 | 1 | 20 |
| KITCHEN SINK | S-1, S-2 | 20 | 2 | 40 |
| FACILITY TYPE: | OFFICE | | TOTAL HOT WATER DEMAND (GPH) | 102 |
| DEMAND FACTOR: | 0.30 | REQUIRED WATER HEATER RECOVERY RATE (GPH) | | 30.6 |
| STORAGE CAPACITY FACTOR: | 2.00 | REQUIRED WATER HEATER STORAGE (GALLONS) | | 61.2 |

| WATER HEATER SIZING CALCULATIONS | | | | |
|---|---|---|---|---|
| MINIMUM RECOVERY RATE (GPH) | FUEL TYPE | THERMAL EFFICIENCY | TEMPERATURE RISE (°F) | INPUT (KW) |
| 30.6 | ELECTRIC | 98% | 80 | 9 |

## PIPE MATERIAL SPECIFICATIONS

| | |
|---|---|
| SANITARY WASTE & VENT, STORM & OVERFLOW DRAIN (ABOVE GRADE) | 'NO-HUB' CAST IRON SOIL PIPE AND FITTINGS WITH HEAVY-DUTY COUPLINGS. HUSKY SD4000 OR CLAMP ALL HI-TORQ-125, FM 1680, CLASS 1. |
| SANITARY WASTE & VENT, STORM & OVERFLOW DRAIN (BELOW GRADE) | 'NO-HUB' CAST IRON SOIL PIPE AND FITTINGS WITH HEAVY-DUTY COUPLINGS. HUSKY SD4000 OR CLAMP ALL HI-TORQ-125, FM 1680, CLASS 1. |
| DOMESTIC WATER (ABOVE GRADE) | TYPE 'L' COPPER TUBING, WROUGHT COPPER OR CAST BRONZE SWEAT FITTINGS, SOLDERED (95/5 SOLDER) JOINTS. |
| DOMESTIC WATER (BELOW GRADE) | TYPE 'K' COPPER TUBING WITH BRAZED JOINTS. |
| PRIMER PIPING (ABOVE & BELOW GRADE) | TYPE 'L' HARD-DRAWN COPPER TUBING WITH WROUGHT SWEAT FITTINGS AND SOLDERED JOINTS. |
| CONDENSATE DRAIN PIPING | TYPE 'M' COPPER TUBING AND WROUGHT COPPER OR CAST BRONZE SWEAT FITTINGS (95/5 SOLDERED JOINTS). ON SIZES 1-1/4 INCHES OR LARGER, PROVIDE 'DWV' PATTERN DRAINAGE FITTINGS. |

NOTES:
1. SEE SPECS FOR ADDITIONAL INFORMATION.
2. PRESSURE LOCK TYPE AND PRESSED FITTING CONNECTIONS ARE NOT PERMITTED.
3. DIELECTRIC UNIONS SHALL BE USED AT ALL POINTS OF CONNECTIONS WHERE THERE IS DISSIMILARITY OF METALS.
4. ABS AND PVC INSTALLATIONS ARE NOT ALLOWED.

## DHW PIPE INSULATION THICKNESS SCHEDULE

| FLUID OPERATING TEMPERATURE (DEGREES F) | NOMINAL PIPE DIAMETER (INCHES) 0.75 AND SMALLER | 1 TO 1.25 | 1.5 AND LARGER |
|---|---|---|---|
| 105-140 | 1.0 | 1.5 | 1.5 |

1. PIPE INSULATION SHALL BE PROVIDED FOR DOMESTIC HOT WATER PIPING AND DOMESTIC HOT WATER RETURN PIPING.
2. PIPE INSULATION THICKNESSES SHALL COMPLY WITH CEC TABLE 120.3-A, AND CPC 609.12.3.

## PLUMBING FIXTURE SCHEDULE

| SYMBOL | FIXTURE TYPE | DESCRIPTION | BASIS OF DESIGN MFR | MODEL | ACCESSORIES | BRANCH SIZE W. | V. | CW | HW | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| DF-1 | DRINKING FOUNTAIN | WALL MOUNTED, SINGLE BOWL W/ BOTTLE FILLER, STAINLESS STEEL FINISH-(VANDAL RESISTANT, BUBBLER)- FRONT PUSHBUTTONS - ADA MOUNTING HEIGHT | ELKAY | EZSDWSLK | | 1-1/2" | 1-1/2" | 1/2" | – | 1, 2 |
| FD-1 | FLOOR DRAIN | CAST IRON BODY, FLASHING COLLAR, 6-INCH ADJUSTABLE NICKEL BRONZE STRAINER HEAD, TRAP PRIMER | JR SMITH | 2005F-A-P05CNB | | 2" | 2" | PRIMER (DWV) | – | |
| L-1 | LAVATORY (0.5 GPM / 0.2 GPC) | UNDER COUNTER MOUNTED, VITREOUS CHINA, ROUND, NO OVERFLOW, ADA MOUNTING HEIGHT | KOHLER | CAXTON K-20000-0 | SINGLE HOLE AC POWERED SENSOR FAUCET KOHLER KUMIN K-103K36-SANA-BL | 1-1/2" | 1-1/2" | (2) 1/2" | (2) 1/2" | 1, 2 |
| L-2 | LAVATORY (0.5 GPM / 0.2 GPC) | UNDER COUNTER MOUNTED, VITREOUS CHINA, ROUND, NO OVERFLOW, ADA MOUNTING HEIGHT | KOHLER | CAXTON K-20000-0 | SINGLE HOLE AC POWERED SENSOR FAUCET KOHLER KUMIN K-103K36-SANA-BL | 1-1/2" | 1-1/2" | (2) 1/2" | (2) 1/2" | 1, 2 |
| L-3 | LAVATORY (0.5 GPM / 0.2 GPC) | WALL MOUNTED, VITREOUS CHINA, SQUARE, FRONT OVERFLOW, | KOHLER | PINOIR K-2025-1-0 | SINGLE HOLE AC POWERED SENSOR FAUCET KOHLER KUMIN K-103K36-SANA-BL | 1-1/2" | 1-1/2" | (2) 1/2" | (2) 1/2" | 1, 2 |
| MS-1 | MOP SINK | FLOOR MOUNT CORNER SERVICE SINK, VITREOUS CHINA | KOHLER | WHITBY K-6710 | WALL MOUNTED KOHLER TRITON BOWE FAUCET K-8387EO-4A, KOHLER WHITBY SINK RIM GUARD K-8960, KOHLER STRAINER K-8142 | 3" | 3" | 1/2" | 1/2" | |
| SK-1 | BREAK ROOM SINK (1.5 GPM) | ADA HEIGHT UNDERMOUNT SINGLE BASIN 25"x22"x9-1/2" DEEP, STAINLESS STEEL. | KOHLER | VAULT K-3823-1-NA | DECK MOUNTED KOHLER COMPONENTS FAUCET - K-20297-CP, INSINKERATOR 79000-ISE GARBAGE DISPOSAL, 3-HP | 2" | 1-1/2" | 3/4" | 3/4" | 1, 3 |
| TP-1 | TRAP PRIMER | AUTOMATIC PRESSURE DROP ACTIVATED TRAP PRIMER VALVE. | MIFAB | MR-500-NPB | WALL ACCESS BOX | – | – | 1/2" | | |
| UR-1 | URINAL (0.5 GPF) | WALL MOUNTED, VITREOUS CHINA, BACK SPUD, FLUSHOMETER, STANDARD HEIGHT | TOTO | UT104EV | TOTO ECOPOWER TET2LA31#SS WALL PLATE VALVE | 2" | 1-1/2" | 3/4" | – | 1 |
| UR-2 | URINAL (0.5 GPF) | WALL MOUNTED, VITREOUS CHINA, BACK SPUD, FLUSHOMETER, ADA HEIGHT | TOTO | UT104EV | TOTO ECOPOWER TET2LA31#SS WALL PLATE VALVE | 2" | 1-1/2" | 3/4" | – | 1 |
| WC-1 | WATER CLOSET (1.28 GPF) | WALL MOUNTED, VITREOUS CHINA, BACK SPUD, FLUSHOMETER, BARRIER FREE, STANDARD HEIGHT | TOTO | WASHLET CWT428472GCMFGN#XS | TOTO ECOPOWER TET2LA31#SS WALL PLATE VALVE | 4" | 2" | 1" | – | 1 |
| WC-2 | WATER CLOSET (1.28 GPF) | WALL MOUNTED, VITREOUS CHINA, BACK SPUD, FLUSHOMETER, BARRIER FREE, ADA HEIGHT | TOTO | WASHLET CWT428472GCMFGN#XS | TOTO ECOPOWER TET2LA31#SS WALL PLATE VALVE | 4" | 2" | 1" | – | 1 |
| WC-3 | WATER CLOSET (1.28 GPF) | FLOOR MOUNTED, VITREOUS CHINA, BACK SPUD, FLUSHOMETER, BARRIER FREE, CHILD HEIGHT | VITRA | SENTO 7361 | TOTO ECOPOWER TET2LA31#SS WALL PLATE VALVE. | 4" | 2" | 1" | – | 1 |

NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS.
2. REQUIRES ELECTRICAL OUTLET.
3. PROVIDE LEAK DETECTION AND AUTOMATIC SHUT-OFF VALVE FOR BOTH COLD AND HOT WATER BRANCH LINES AND CONNECT TO BAS.
4. SUPPLIED BY OTHERS. PLUMBING CONNECTIONS BY PLUMBING SUB-CONTRACTOR.
*. UNLESS NOTED OTHERWISE ON DRAWINGS

## PLUMBING DEVICES SCHEDULE

| SYMBOL | DESCRIPTION | BASIS OF DESIGN MFR | MODEL | CONNECTION W | V | CW | HW | NOTES |
|---|---|---|---|---|---|---|---|---|
| ET-1 | THERMAL EXPANSION TANK | AMTROL | ST-5C-DD | – | – | 3/4" | – | 1 |
| TMV-1 | THERMOSTATIC MIXING VALVE | WATTS | LFD480 | – | – | 1/2" | 1/2" | 2 |
| TMV-2 | THERMOSTATIC MIXING VALVE | WATTS | LFN170-M3 | – | – | 1" | 1" | 3 |
| WHA-1 | WATER HAMMER ARRESTOR | OATEY | AA THRU F | – | – | – | – | |

NOTES:
1. PROVIDE AT WH-1.
2. PROVIDE AT HAND SINKS AND PUBLIC LAVATORIES. SET OUTLET TEMPERATURE TO 110°F.
3. PROVIDE AT WH-1. SET OUTLET TEMPERATURE TO 120°F.

## PUMP SCHEDULE

| SYMBOL | EQUIPMENT TYPE | LOCATION / SERVING | BASIS OF DESIGN MFR | MODEL | FLOW RATE | HEAD (FT H2O) | RPM | ELECTRICAL VOLTS | PH | AMPS | HP | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CP-1 | HOT WATER RECIRCULATION PUMP | JC 05 / WH-1 | BELL & GOSSETT | ILW6 | 10 GPM | 5 | 3450 | 115 | 1 | 0.49 | 1/20 | |

NOTES:

## WATER HEATER SCHEDULE

| SYMBOL | EQUIPMENT TYPE | LOCATION / SERVING | BASIS OF DESIGN MFR | MODEL | TANK CAPACITY (GALLONS) | WEIGHT (LBS) | RECOVERY DATA RECOVERY RATE | TEMPERATURE RISE (DEG F) | ELECTRICAL DATA VOLTS | PH | KW | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH-1 | ELECTRIC TANK-TYPE WATER HEATER | JC 05 / DHW | RHEEM | EL50-19 | 72 | 900 | 61 GPH | 80 | 208 | 3 | 12.1 | 1 |

NOTES: 1. SET STORAGE TEMPERATURE TO 120 DEGREES F.

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| No. | Description | Date |
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| | ISSUED FOR PERMIT | 20 DEC 2024 |
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| | ISSUED FOR PERMIT | 20 MAR 2025 |

Approved By:

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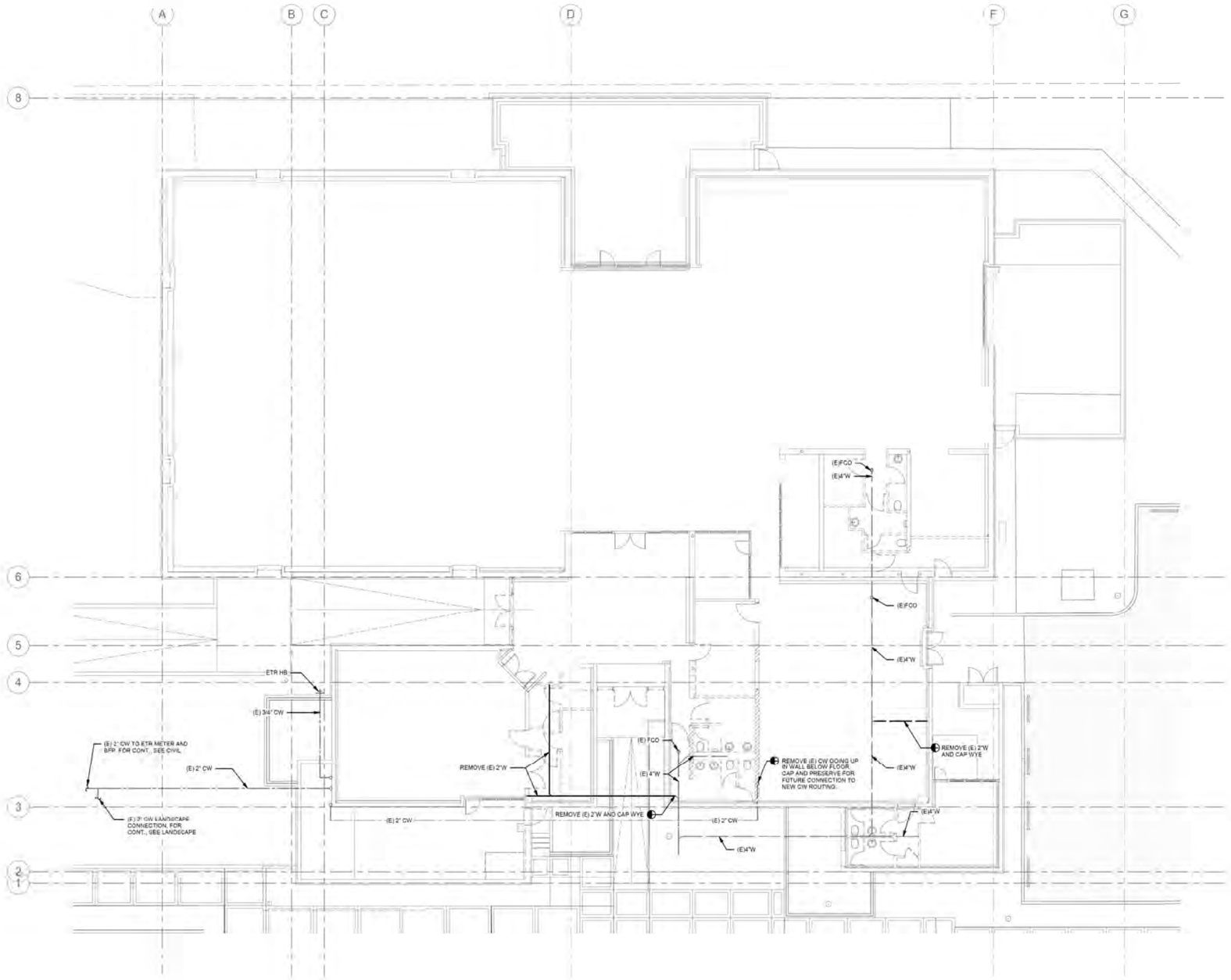
Sheet Name: SCHEDULES - PLUMBING

Project No:
Drawn By: Author
Checked By: Checker

Sheet No: P002




1 UNDERGROUND DEMOLITION PLAN - PLUMBING

0' 4' 8' 16'
1/8" = 1'-0"

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UNDERGROUND DEMOLITION PLAN - PLUMBING

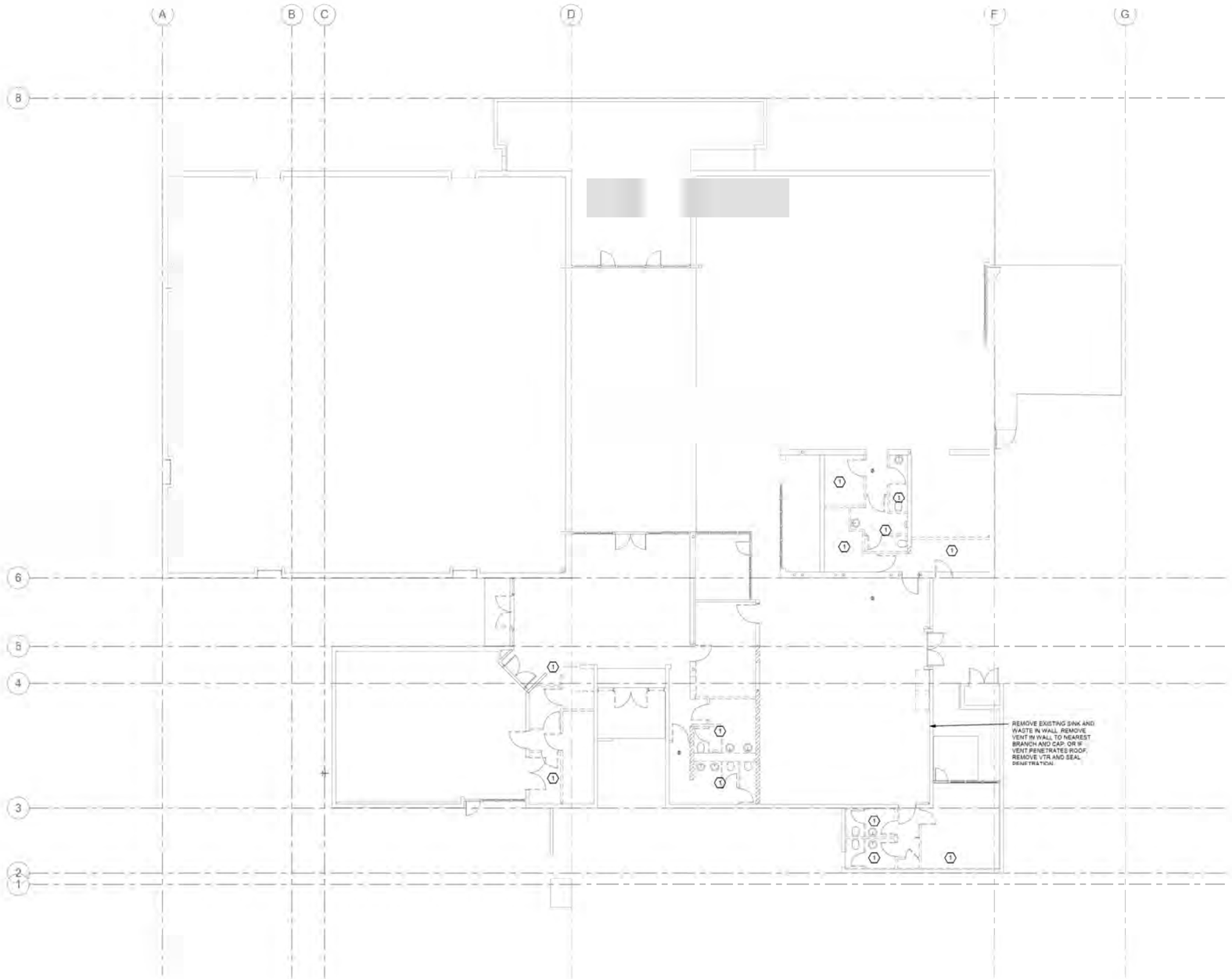
PD200

## GENERAL SHEET NOTES

A. REMOVE ALL EXISTING VENT PIPING AND PRESERVE ROOF PENETRATIONS FOR FUTURE VENT PIPING.
B. STORM AND OVERFLOW PIPING TO REMAIN IN PLACE.

## SHEET KEYNOTES

1. REMOVE ALL EXISTING PLUMBING FIXTURES AND APPURTENANCES IN THIS ROOM TO MAIN BRANCH BELOW GRADE




1 FIRST FLOOR WASTE & VENT DEMOLITION PLAN - PLUMBING

1/8" = 1'-0"

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INTERFACE ENGINEERING

JENSEN HUGHES

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| | ISSUED FOR PERMIT | 20 DEC 2024 |
| | 50% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| | ISSUED FOR PERMIT | 29 MAR 2025 |

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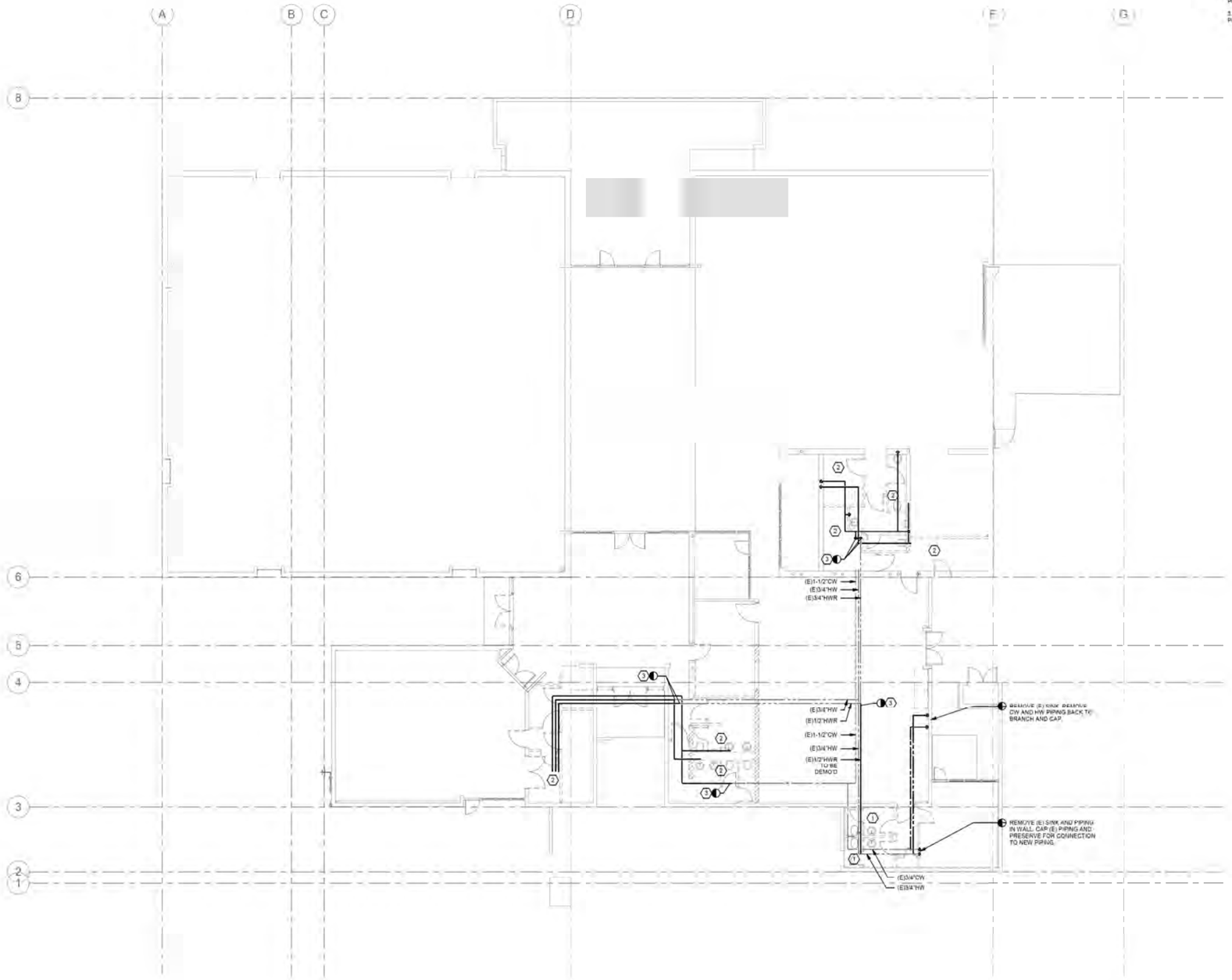
FIRST FLOOR WASTE & VENT DEMOLITION PLAN - PLUMBING

PD201

## GENERAL SHEET NOTES

## SHEET KEYNOTES

1. REMOVE ALL EXISTING PLUMBING FIXTURES AND APPURTENANCES IN THIS ROOM TO MAIN BRANCH AND CAP.
2. REMOVE ALL EXISTING PLUMBING FIXTURES AND APPURTENANCES IN THIS ROOM TO POINT OF DISCONNECTION AS SHOWN.
3. POINT OF DISCONNECTION. REMOVE PIPING AND FIXTURES DOWNSTREAM. CAP AND PRESERVE EXISTING TO REMAIN FOR FUTURE CONNECTION.




1 FIRST FLOOR WATER DEMOLITION PLAN - PLUMBING

0 4' 8' 16'
1/8" = 1'-0"

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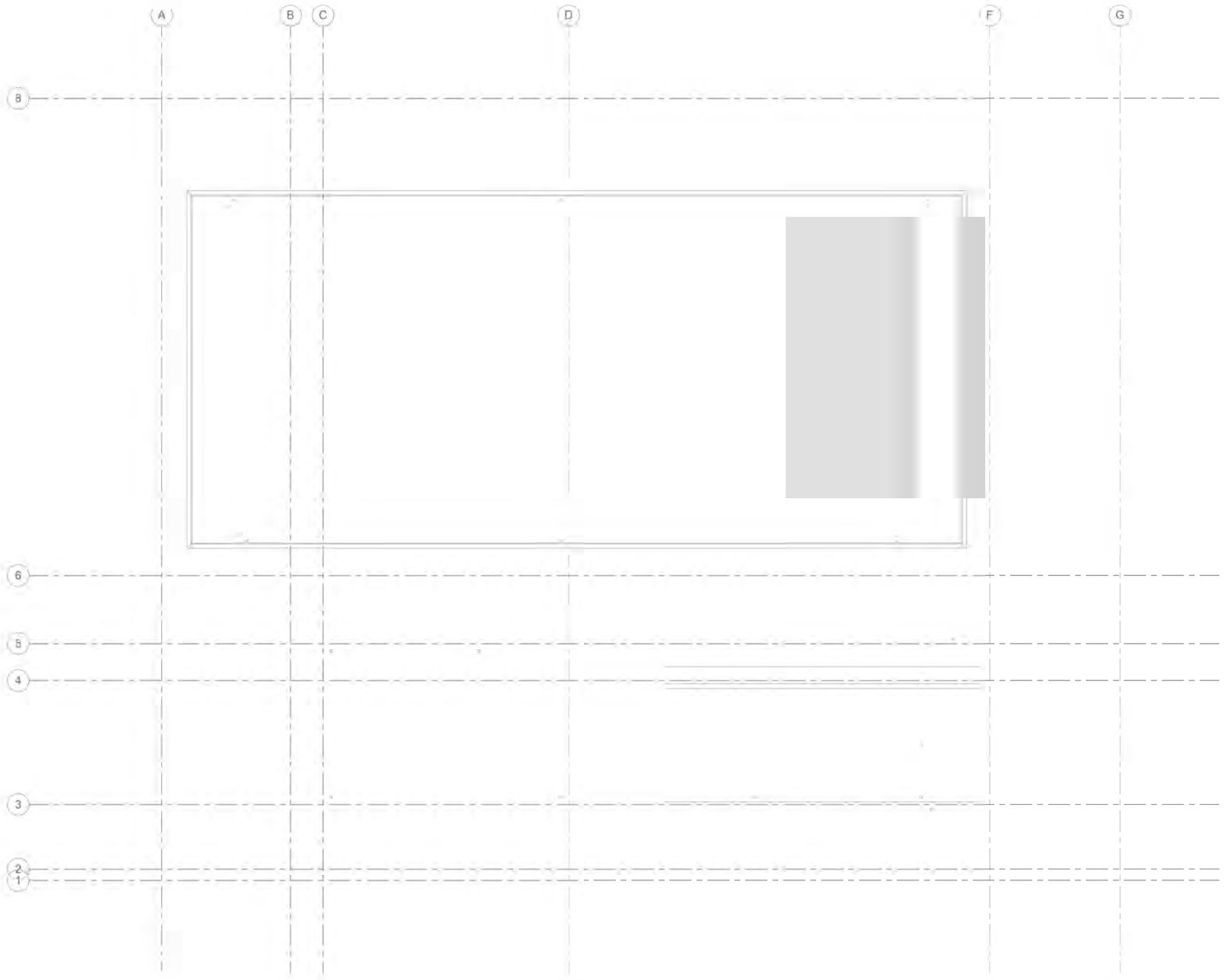
| 60% CONSTRUCTION DOCUMENTS | 7 MAR 2025 |
| ISSUED FOR PERMIT | 20 MAR 2025 |

REGISTERED PACIFIC PROFESSIONAL ENGINEER
EUGENE DE SOUZA
No. M34451
Exp. 06/30/26
STATE OF CALIFORNIA

FIRST FLOOR WATER DEMOLITION PLAN - PLUMBING

PD202




1 ROOF DEMOLITION PLAN - PLUMBING

1/8" = 1'-0"

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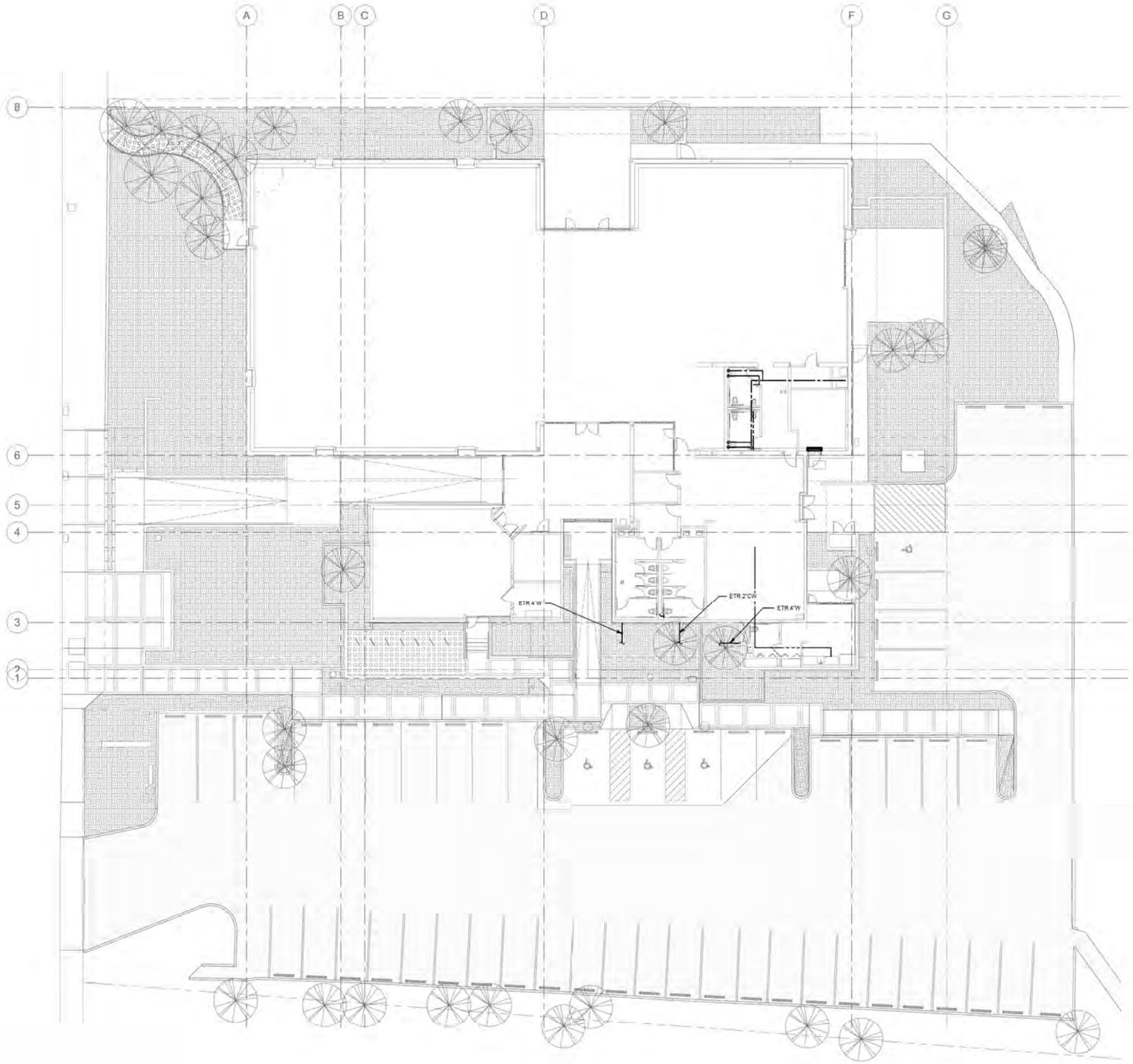
STATE OF CALIFORNIA

ROOF DEMOLITION PLAN - PLUMBING

PD203




1 SITE PLAN - PLUMBING

0' 8' 16' 32'
3/32" = 1'-0"

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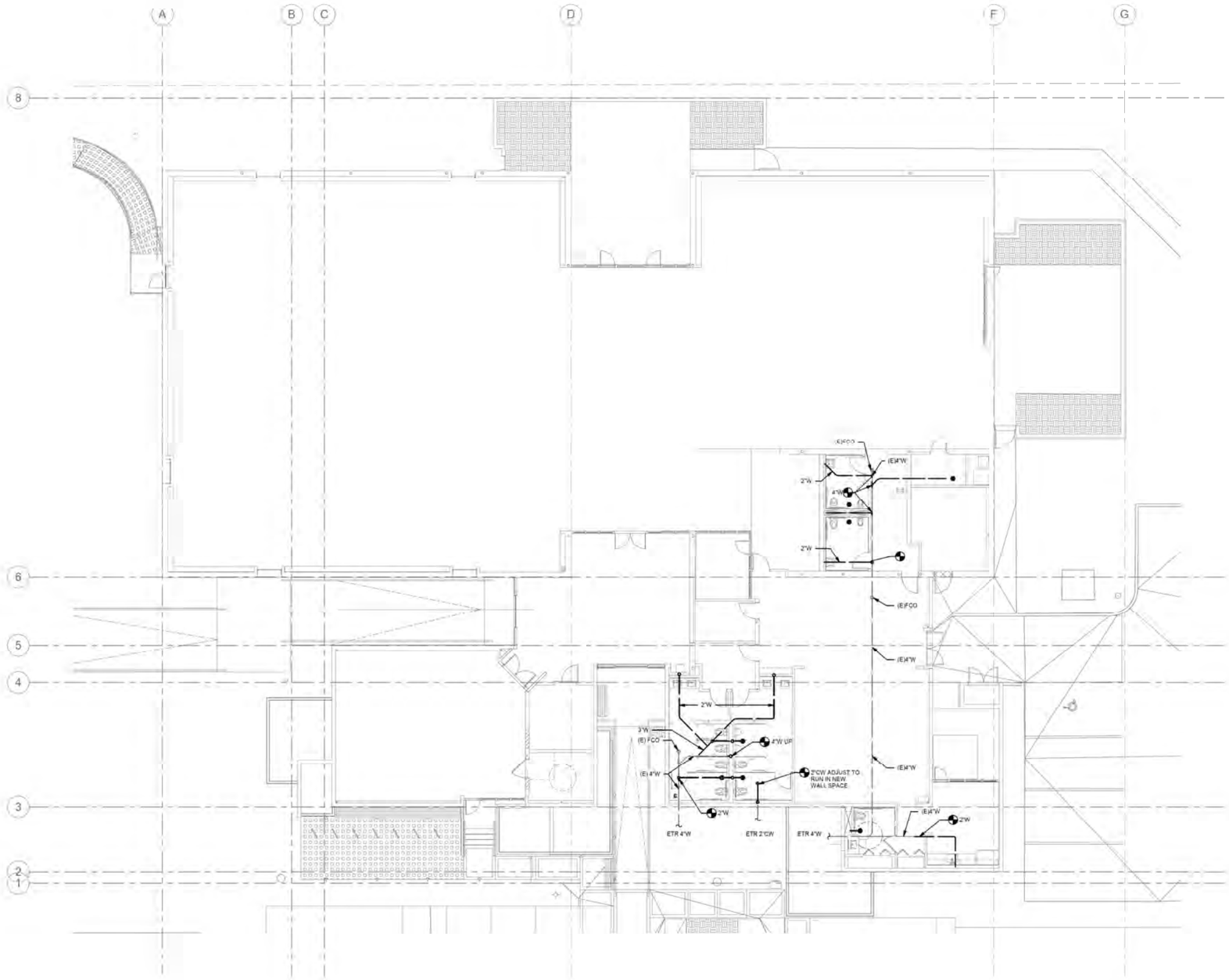
Exp: 6/30/25
STATE OF CALIFORNIA

SITE PLAN - PLUMBING

P100




1 UNDERGROUND PLAN - PLUMBING

1/8" = 1'-0"

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INTERFACE ENGINEERING

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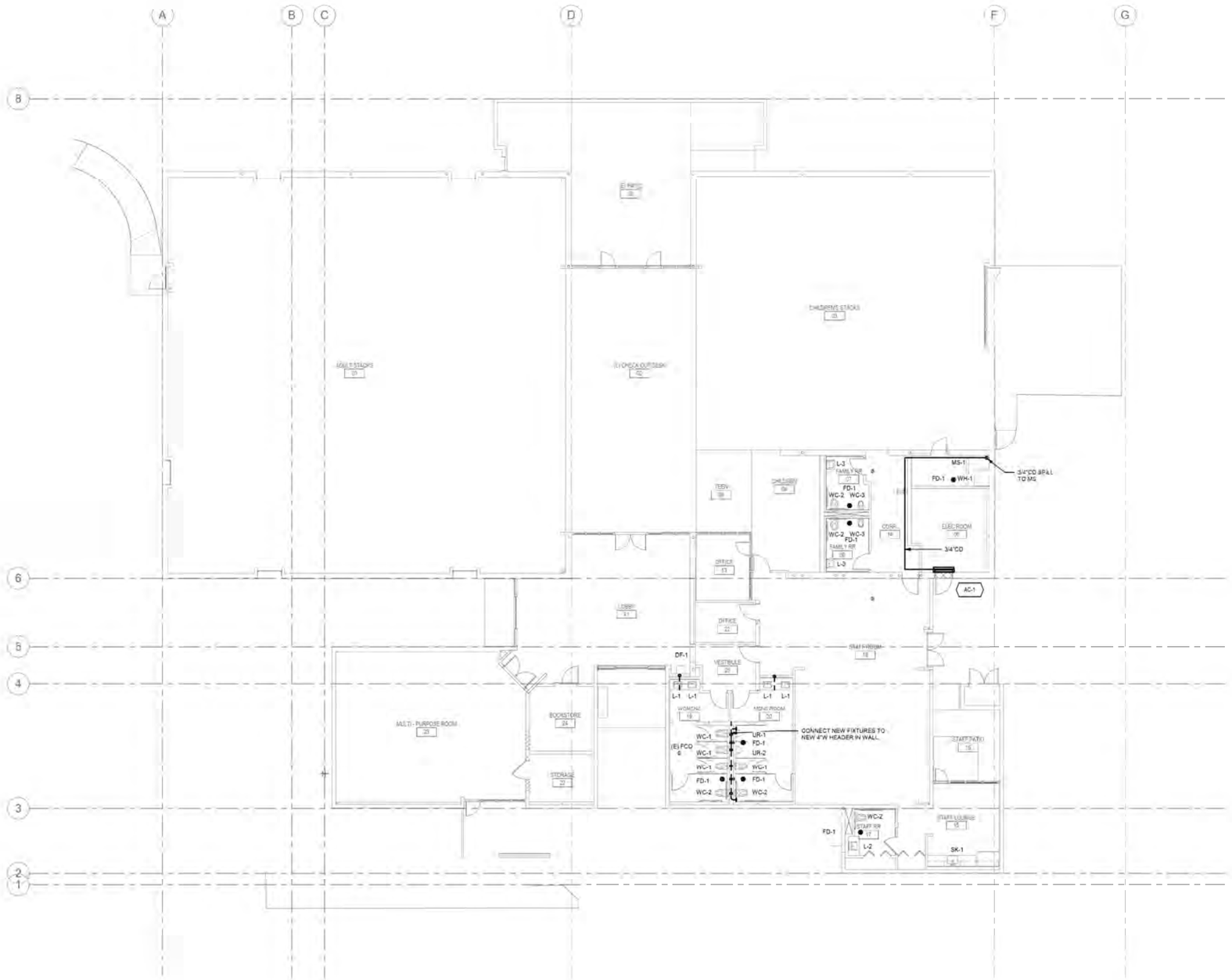
Exp. 08/2026
STATE OF CALIFORNIA

UNDERGROUND PLAN - PLUMBING

P200

## GENERAL SHEET NOTES

A. GATHER NEW VENT PIPING ABOVE CEILING AND RUN TO NEAREST EXISTING VTR PENETRATION.
B. STORM AND OVERFLOW PIPING TO REMAIN IN PLACE.




1 FIRST FLOOR WASTE & VENT PLAN - PLUMBING
1/8" = 1'-0"

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EUGENE DE SOUZA
No. M34451
Exp: 3/31/2025
STATE OF CALIFORNIA

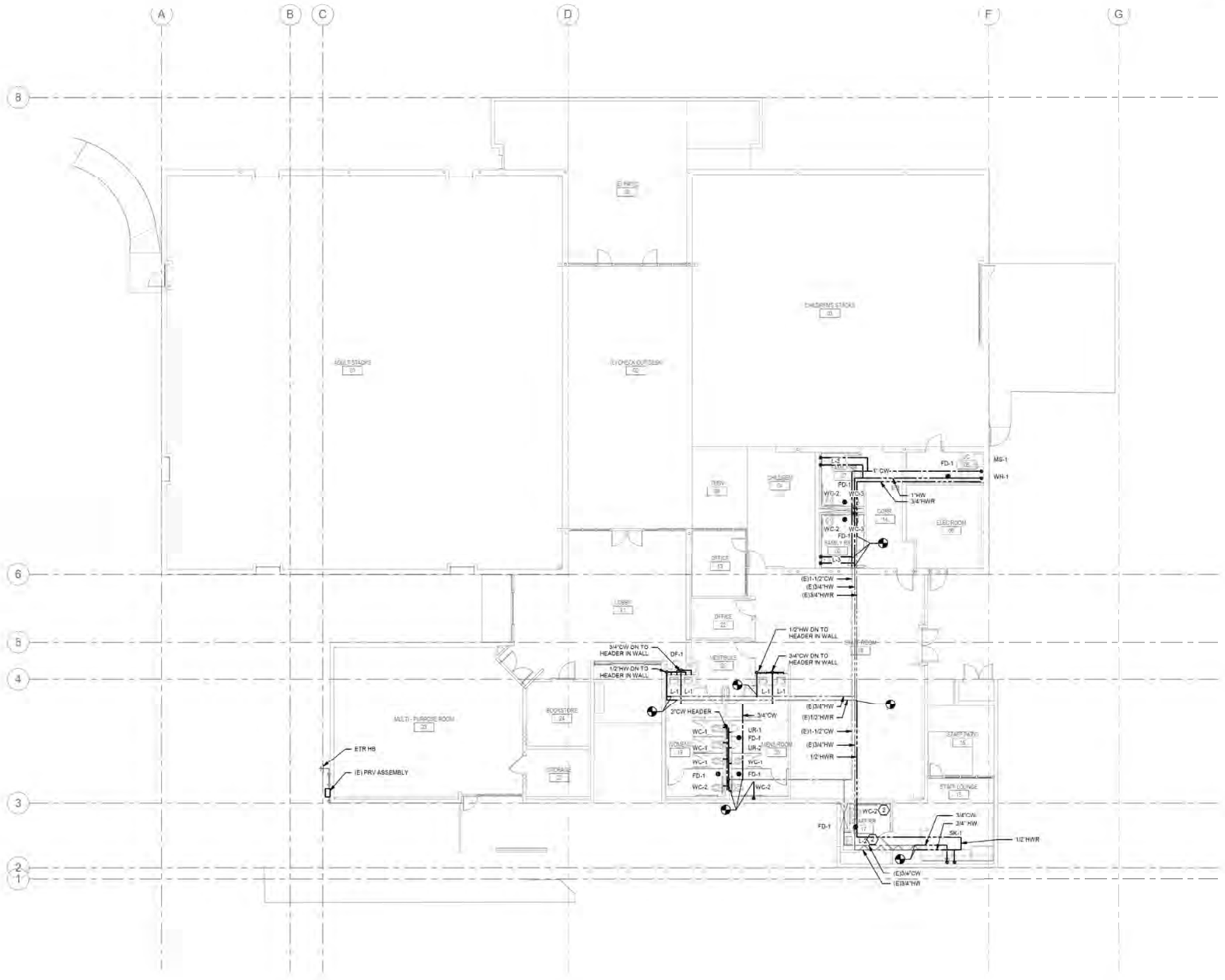
FIRST FLOOR WASTE & VENT PLAN - PLUMBING

P201

## GENERAL SHEET NOTES

## SHEET KEYNOTES

1. NOT USED
2. CONNECT NEW PIPING FROM FIXTURE TO EXISTING PIPING




1 FIRST FLOOR WATER PLAN - PLUMBING

0 4' 8' 16'
1/8" = 1'-0"

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EUGENE DE SOUZA
No. M34851
Exp: 06/30/25
STATE OF CALIFORNIA

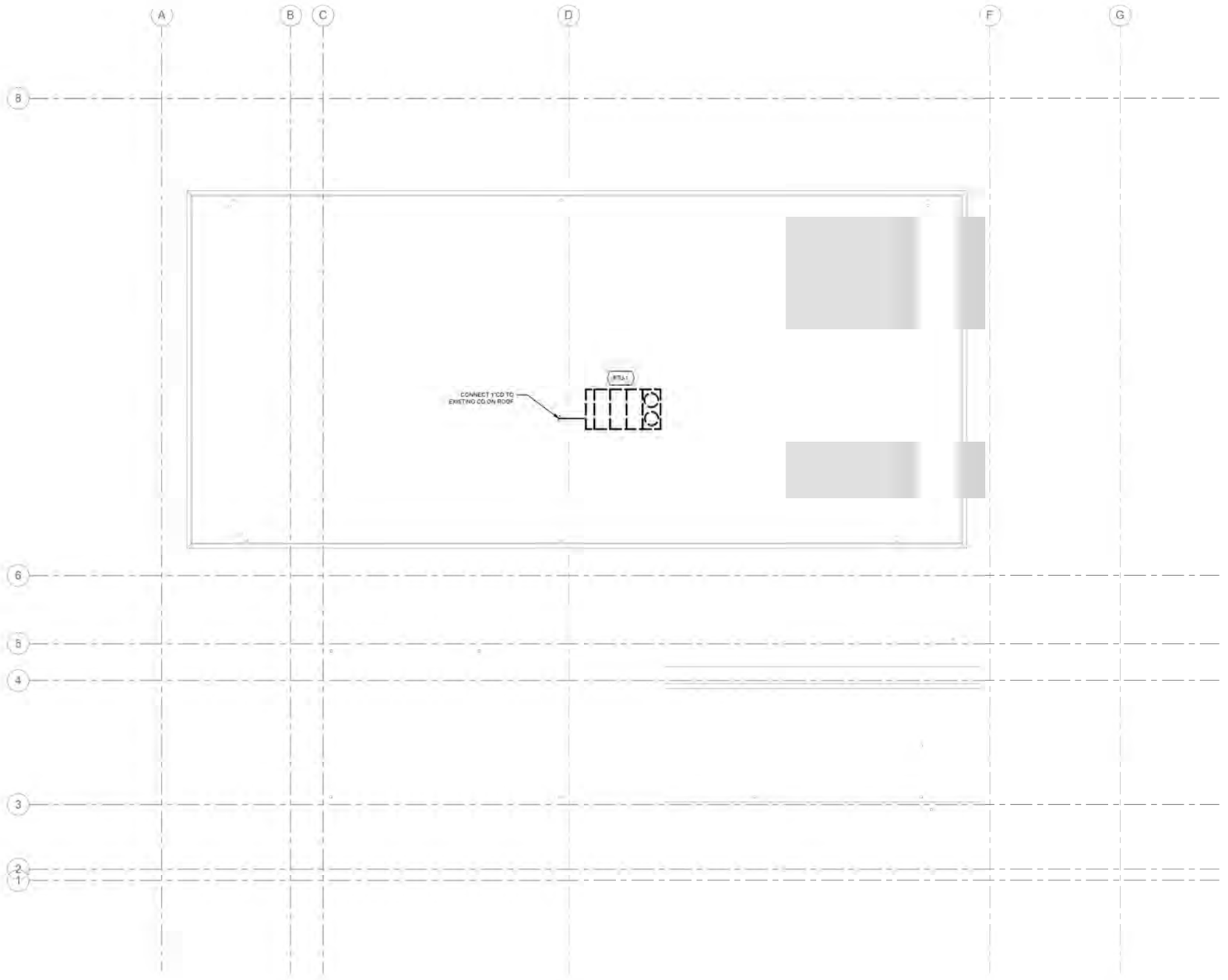
FIRST FLOOR WATER PLAN - PLUMBING

Project No.: 24151
Drawn by: MMing
Checked by: Checker
Scale: 1/8"=1'-0"

Sheet No.: P202

## GENERAL SHEET NOTES

A. ROOF/ OVERFLOW DRAINS AND STORM PIPING TO REMAIN IN PLACE




1 ROOF PLAN - PLUMBING

1/8" = 1'-0"

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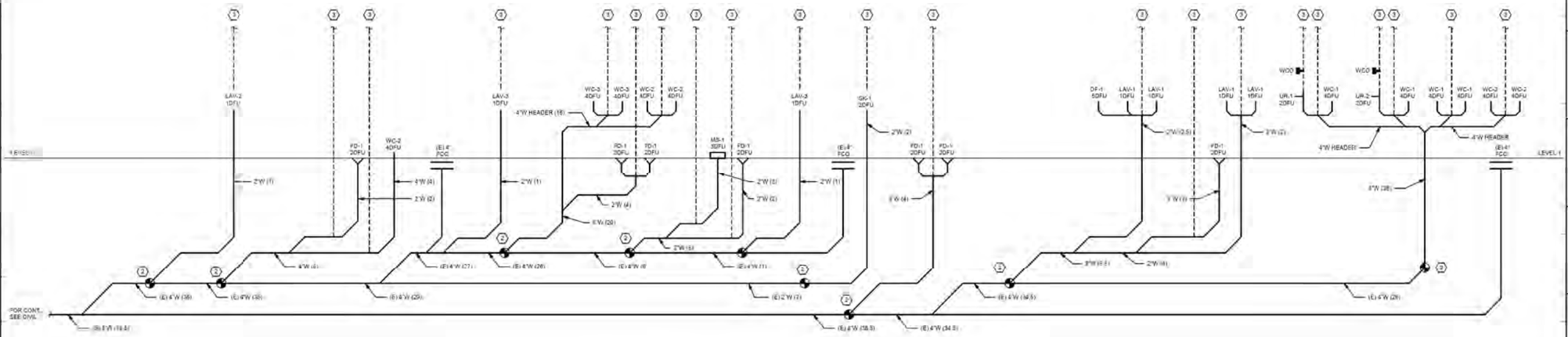
ROOF PLAN - PLUMBING

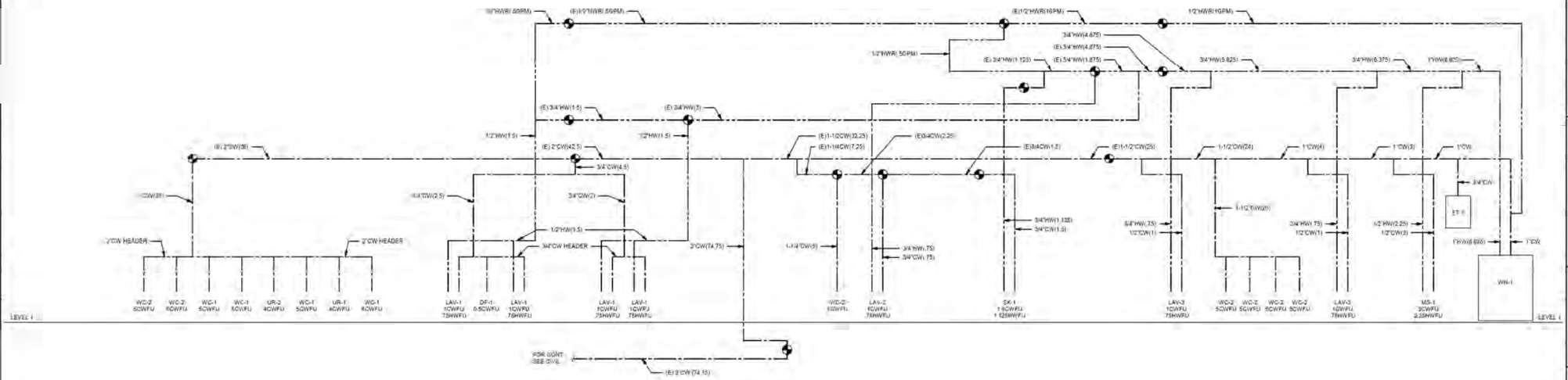
P203

## SHEET KEYNOTES

1. CONNECT NEW FIXTURE TO EXISTING PIPING.
2. CONNECT NEW PIPING FROM FIXTURE TO EXISTING PIPING.
3. GATHER VENT PIPING ABOVE CEILING AND RUN TO NEAREST EXISTING VTR PENETRATION.




# WASTE AND VENT DIAGRAM




# WATER DIAGRAM

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Consultant: kpff

Consultant: UPLA

Consultant: INTERFACE ENGINEERING

Consultant: JENSEN HUGHES

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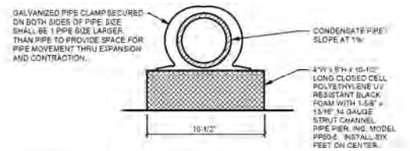
Sheet Name: RISER DIAGRAMS - PLUMBING

Project No.: 2430

Drawn By: MJ/BG

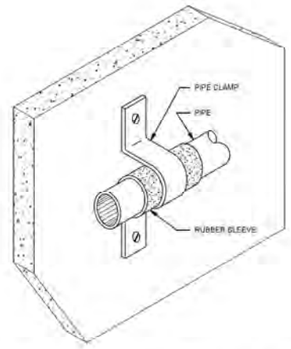
Checked By: Author

Sheet No.: P400



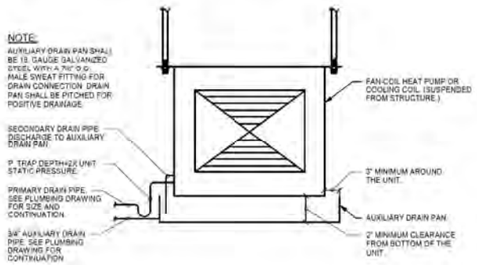

## 6 CONDENSATE DRAIN PIPING ON ROOF

0 4' 8' 16'
NO SCALE




## 3 NOISE SUPPRESSION AND SUPPORT

0 4' 8' 16'
NO SCALE




## 8 CONDENSATE DRAIN PIPING

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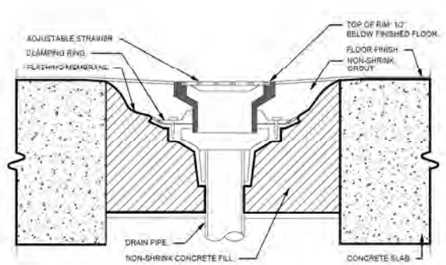
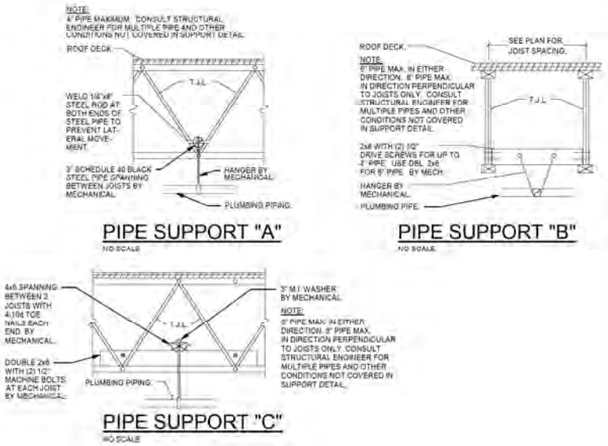
NO SCALE



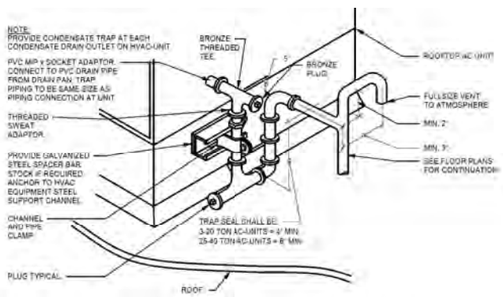

## 5 FLOOR DRAIN

0 4' 8' 16'
NO SCALE



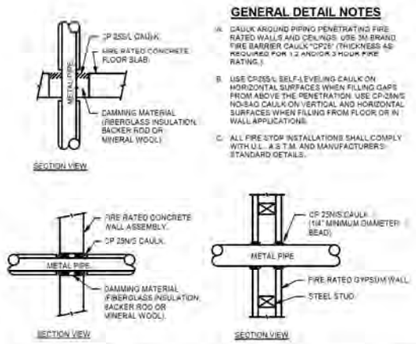

## 2 PIPE SUPPORT

0 4' 8' 16'
NO SCALE




## 7 CONDENSATE DRAIN PIPING ON ROOF

0 4' 8' 16'
NO SCALE




**GENERAL DETAIL NOTES**

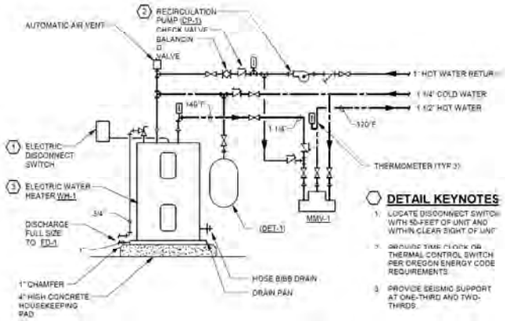
A. CAULK AROUND PIPING PENETRATING FIRE RATED WALLS AND CEILINGS. USE 3M BRAND FIRE BARRIER CAULK "CP25" (THICKNESS AS REQUIRED FOR 1-2 AND/OR 3 HOUR FIRE RATING.)

B. USE CP25S/L SELF-LEVELING CAULK ON HORIZONTAL SURFACES WHEN FILLING GAPS FROM ABOVE THE PENETRATION. USE CP-25N/S NON-SAG CAULK ON VERTICAL AND HORIZONTAL SURFACES WHEN FILLING FROM FLOOR OR IN WALL APPLICATIONS.

C. ALL FIRE STOP INSTALLATIONS SHALL COMPLY WITH U.L., A.S.T.M. AND MANUFACTURER'S STANDARD DETAILS.

## 4 RATED WALL, FLOOR AND CEILING PIPING PENETRATION

0 4' 8' 16'
NO SCALE




## 1 ELECTRIC DOMESTIC WATER HEATING SYSTEM

0 4' 8' 16'
NO SCALE

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REGISTERED PROFESSIONAL ENGINEER
EUGENE DE SOUZA
No. M34451
Exp. 09/2025
STATE OF CALIFORNIA

DETAILS - PLUMBING

Project No.: 2431
Drawn By: MMM
Checked By: EDeS
Scale: As shown

Sheet No.: P500

## GENERAL NOTES

1. NO CHANGES TO THE "FS" SHEETS BY THE SPRINKLER SUBCONTRACTOR ARE ALLOWED EXCEPT FOR ADDING SHOP DRAWING INFORMATION. ALL REQUIRED REVISIONS TO THE "FS" SHEETS (OTHER THAN MINOR REVISIONS FOR THE PURPOSE OF COORDINATION) SHALL BE SUBMITTED IN WRITING AND SHALL BE APPROVED BY JENSEN HUGHES AND DSA.
2. THE SPRINKLER SYSTEMS IN THESE BUILDINGS SHALL BE MONITORED BY A CENTRAL STATION SIGNALING SYSTEM FURNISHED AND INSTALLED BY THE ALARM CONTRACTOR. ALL TAMPER SWITCHES AND WATER FLOW INDICATORS SHALL BE INSTALLED BY THE SPRINKLER CONTRACTOR AND WIRED TO THE CENTRAL STATION SIGNALING SYSTEM BY THE ALARM CONTRACTOR.
3. THE SPRINKLER SUBCONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, SEALING, PATCHING, AND PAINTING REQUIRED FOR INSTALLATION OF THE SPRINKLER SYSTEM. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH AN APPROVED MATERIAL AS PRESCRIBED IN THE CALIFORNIA BUILDING CODE.
4. THE SPRINKLER SUBCONTRACTOR SHALL BE C-16 LICENSED BY THE STATE OF CALIFORNIA FOR DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS.
5. SYSTEM DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13. MATERIALS TO BE UL LISTED OR FM APPROVED.
6. ALL ABOVE GROUND PIPE SHALL BE BLACK STEEL, SCHEDULE 10 FOR PIPES 2 1/2" AND LARGER AND SCHEDULE 40 FOR PIPES 2" AND SMALLER.
7. HANGER LOCATIONS FOR ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13 CHAPTER 17. SEE HANGER SCHEDULE AND/OR DETAILS FOR TYPES OF HANGERS USED.
8. BRANCH LINE RESTRAINTS SHALL BE PROVIDED ON ALL BRANCH LINES, EXCEPT WHERE THE FOLLOWING ARE MET (NFPA 13 SECTION 18.6.5.1(1-7):
   - 8.1. THE BRANCH LINES SHALL BE INDIVIDUALLY SUPPORTED WITHIN 6 INCHES OF THE STRUCTURE, MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE.
   - 8.2. CONSECUTIVE HANGERS AND AT LEAST 75 PERCENT OF ALL THE HANGERS ON THE BRANCH LINE SHALL MEET THE REQUIREMENT ABOVE.
9. PROVIDE RIGID COUPLINGS THROUGHOUT, EXCEPT FLEXIBLE COUPLINGS SHALL BE INSTALLED AS FOLLOWS:
   - 9.1. WITHIN 24 INCHES OF THE TOP AND BOTTOM OF ALL RISERS.
   - 9.2. ON BOTH SIDES OF CONCRETE OR MASONRY WALLS WITHIN 1 FOOT OF THE WALL SURFACE WHERE ADEQUATE CLEARANCE IS NOT PROVIDED.
   - 9.3. WITHIN 24 INCHES OF BUILDING EXPANSION JOINTS.
   - 9.4. WITHIN 24 INCHES OF THE TOP OF DROPS EXCEEDING 15 FEET IN LENGTH TO PORTIONS OF SYSTEMS SUPPLYING MORE THAN ONE SPRINKLER, REGARDLESS OF PIPE SIZE.
   - 9.5. ABOVE AND BELOW ANY INTERMEDIATE POINTS OF SUPPORT FOR A RISER OR OTHER VERTICAL PIPE.
10. ALL WELDING TO BE DONE BY CERTIFIED WELDERS.
11. JOINING OF PIPE AND FITTINGS SHALL BE DONE WITH GROOVED COUPLINGS WHEN THREADED CAST IRON OR DUCTILE IRON FITTINGS WITH THREADABLE PIPE.
12. ALL LOW POINT DRAINS SHALL BE IN ACCORDANCE NFPA 13 (UNLESS NOTED OTHERWISE) AND SHALL BE DISPLAYED ON SHOP DRAWINGS.
13. THE CLEARANCE BETWEEN THE DEFLECTOR AND THE TOP OF STORAGE OR CONTENTS OF STORAGE OCCUPANCIES SHALL BE 18 INCHES OR GREATER (NFPA 13 SECTION 20.9.6.1).
14. ALL INSPECTOR'S TEST CONNECTIONS AND LOW POINT DRAINS SHALL BE IN ACCORDANCE NFPA 13 (UNLESS NOTED OTHERWISE) AND SHALL BE DISPLAYED ON SHOP DRAWINGS; MOUNTING HEIGHTS OF CONTROL VALVES SHALL BE 5'-0" A.F.F. MOUNT CONTROL VALVES FOR LOW POINT DRAINS INSIDE BUILDING. PIPE DRAIN LINES TO EXTERIOR OF BUILDING. DRAIN PIPE WILL BE CONNECTED TO THE SANITARY SEWER SYSTEM CAPABLE OF HANDLING THE FLOW OF THE DRAIN.
15. THE OVERHEAD PORTION OF THIS SYSTEM SHALL BE TESTED AT 200 PSI FOR TWO HOURS. THE UNDERGROUND SYSTEM SHALL BE FLUSHED IN ACCORDANCE WITH NFPA 24 BEFORE CONNECTION WITH THE OVERHEAD SYSTEM AND BE TESTED AT 200 PSI FOR TWO HOURS.
16. SPRINKLER CONTRACTOR TO COORDINATE AND ADJUST SPRINKLERS TO ELECTRICAL, MECHANICAL, STRUCTURAL AND ALL OTHER TRADES AT NO ADDITIONAL COST. INSTALL OFFSETS AS REQUIRED FOR COORDINATION WITH OTHER TRADES.
17. OWNER SHALL BE PROVIDED WITH TEST CERTIFICATES, CARE & MAINTENANCE BOOK, AND A SPARE HEAD CABINET WITH SPRINKLERS AND A WRENCH IN ACCORDANCE WITH NFPA 13.
18. DELIVERY OF ALL MATERIALS AND EQUIPMENT TO THE JOB SITE SHALL BE SCHEDULED TO ASSURE COMPLIANCE WITH THE PREDETERMINED CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND HANDLING ALL MATERIALS AND EQUIPMENT ON THE JOB SITE, INCLUDING FURNISHING OF ANY STORAGE FACILITIES OR STRUCTURE REQUIRED.
19. SPRINKLER CONTRACTOR SHALL COMPLETE AND SIGN CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE ABOVEGROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD TO THE CITY OF SAN DIEGO FOR FILING IN PROJECT RECORDS.
20. SIGNAGE SHALL BE PROVIDED AS REQUIRED, INCLUDING "FIRE RISERS INSIDE."
21. FLOW SWITCH AT EACH RISER SHALL BE CONNECTED TO A 15-INCH OUTSIDE ALARM BELL OR OTHER AUDIBLE ALARM DEVICE. APPROVED IDENTIFICATION SIGNS SHALL BE PROVIDED ON THE OUTSIDE ALARM BELL "SPRINKLER FIRE ALARM -WHEN ALARM SOUNDS CALL 911 / FIRE DEPARTMENT"
22. REFERENCE THE CIVIL DRAWINGS FOR ADDITIONAL FIRELINE INFORMATION AND ACTUAL LENGTHS OF PIPE. THE LAYOUT SHOWN ON THE CIVIL DRAWINGS WILL SUPERCEDE WHAT IS SHOWN ON THE FIRE PROTECTION SITE PLAN. REFER TO THE ARCHITECTURAL DRAWINGS FOR ACTUAL BUILDING DIMENSIONS AND DETAILS. DO NOT SCALE "FS" DRAWINGS FOR CONSTRUCTION PURPOSES.
23. REFER TO THE FIRE PROTECTION SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THIS FIRE PROTECTION SYSTEM.

## APPLICABLE CODES

CALIFORNIA ADMINISTRATIVE CODE 2022 EDITION
C.C.R. TITLE 24 PART 1

CALIFORNIA BUILDING CODE 2022 EDITION
C.C.R. TITLE 24 PART 2

CALIFORNIA FIRE CODE 2022 EDITION
C.C.R. TITLE 24 PART 9

CALIFORNIA ELECTRICAL CODE 2022 EDITION
C.C.R. TITLE 24 PART 3

CALIFORNIA MECHANICAL CODE 2022 EDITION
C.C.R. TITLE 24 PART 4

NFPA 13 2022 EDITION
AS AMENDED IN CHAPTER 35 OF THE CALIFORNIA BUILDING CODE

NFPA 24 2022 EDITION
AS AMENDED IN CHAPTER 35 OF THE CALIFORNIA BUILDING CODE

## DESIGN CRITERIA

FIRST FLOOR - LIGHT HAZARD, DESIGNED TO PROVIDE 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1,500 SQ. FT. INCLUDING A HOSE DEMAND OF 100 GPM. MAXIMUM SPRINKLER SPACING SHALL BE 15 FT AND MAXIMUM PROTECTION AREA SHALL BE 225 SQ. FT.

ATTIC SPRINKLER SYSTEM: LIGHT HAZARD, DESIGNED TO PROVIDE 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 7 SPRINKLERS ON EACH LOOP WITHIN THE CONCEALED SPACE (14 SPRINKLERS, TOTAL), INCLUDING A HOSE DEMAND OF 150 GPM (SEE NFPA 13 SECTION 19.2.3.4.2). MAXIMUM SPRINKLER SPACING SHALL BE 15 FT (PARALLEL TO SLOPE) OR 10 FT (PERPENDICULAR TO SLOPE) AND MAXIMUM PROTECTION AREA SHALL BE 120 SQ. FT.

## SCOPE OF WORK

INSTALLATION OF NEW FIRE SPRINKLER SYSTEMS IN GOLETA VALLEY LIBRARY, INCLUDING CONCEALED COMBUSTIBLE SPACE.

## EQUIPMENT LIST AND SYMBOL LEGEND

| SYMBOL | DESCRIPTION | MFG. | MODEL |
|---|---|---|---|
| | QUICK RESPONSE, CONCEALED PENDENT SPRINKLER | RELIABLE | QS-5/8", 5.6K, 155°F, RA5415 |
| | QUICK RESPONSE, RECESSED PENDENT SPRINKLER | RELIABLE | F1FR56, 5.6K, 200°F, RA1414 |
| | QUICK RESPONSE UPRIGHT SPRINKLER | RELIABLE | F1FR56, 5.6K, 200°F, RA1425 |
| | RISER ASSEMBLY | TBD | TBD |
| | FIRE DEPARTMENT CONNECTION | TBD | TBD |
| | HYDRAULIC REFERENCE NODE | | |

## SHEET INDEX

| ITEM | SHEET NUMBER | SHEET DESCRIPTION |
|---|---|---|
| 1 | FS000 | FIRE SPRINKLER SYSTEM COVER SHEET |
| 2 | FS100 | FIRE SPRINKLER SITE PLAN |
| 3 | FS200 | FIRE SPRINKLER FLOOR PLAN |
| 4 | FS201 | FIRE SPRINKLER CONCEALED SPACE PLAN |
| 5 | FS300 | FIRE SPRINKLER RISER DETAIL |
| 6 | FS400 | FIRE SPRINKLER SYSTEM DETAILS |

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Consultant:
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Sheet Title:
FIRE SPRINKLER COVER SHEET

Project No: 24-05
Drawn By: Author
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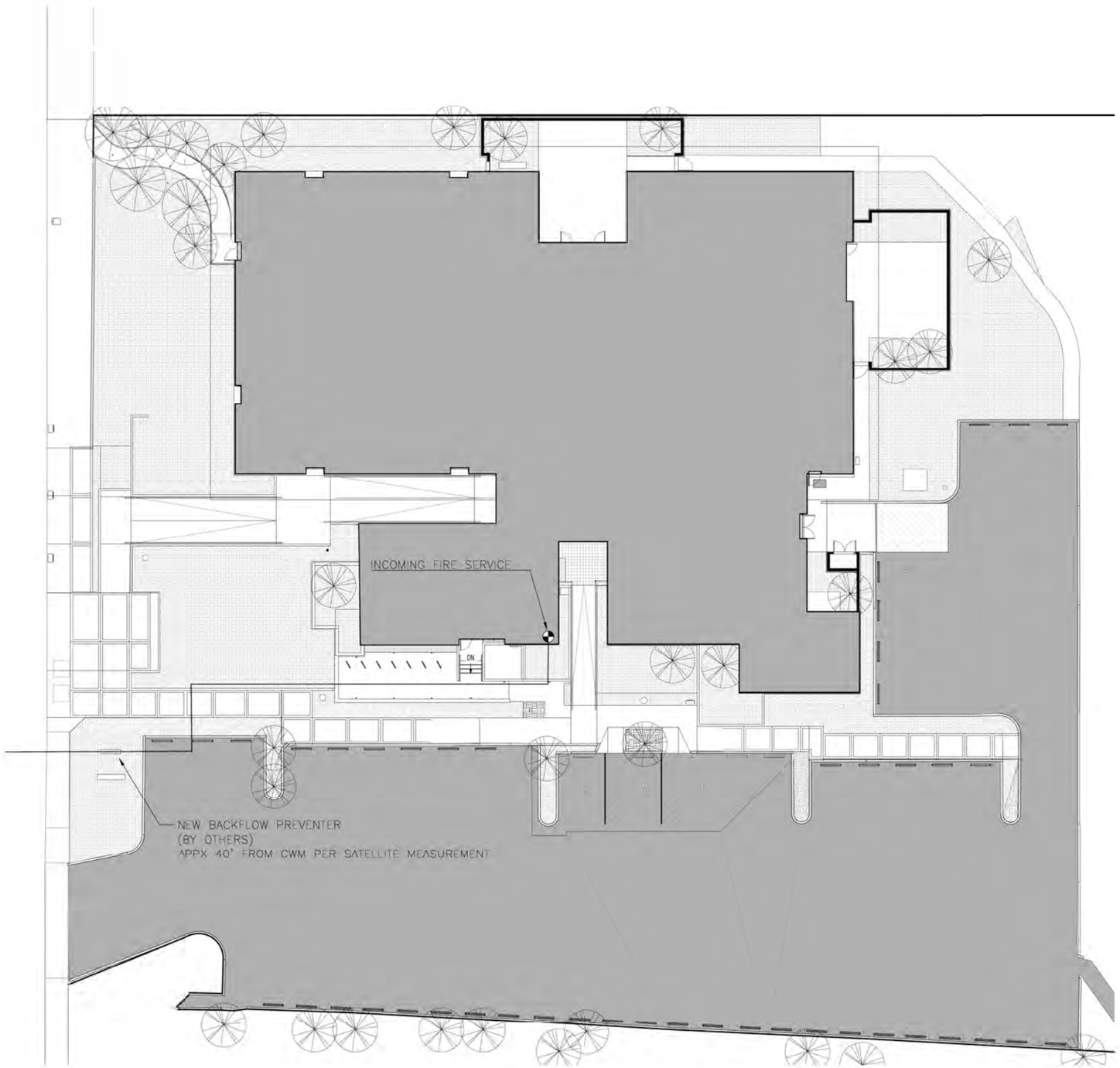


1 FS100 FIRE SPRINKLER SITE PLAN
SCALE: 3/32" = 1'-0"

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FIRE SPRINKLER SITE PLAN

Project No.: 24.10
Sheet Qty: AS[illegible]
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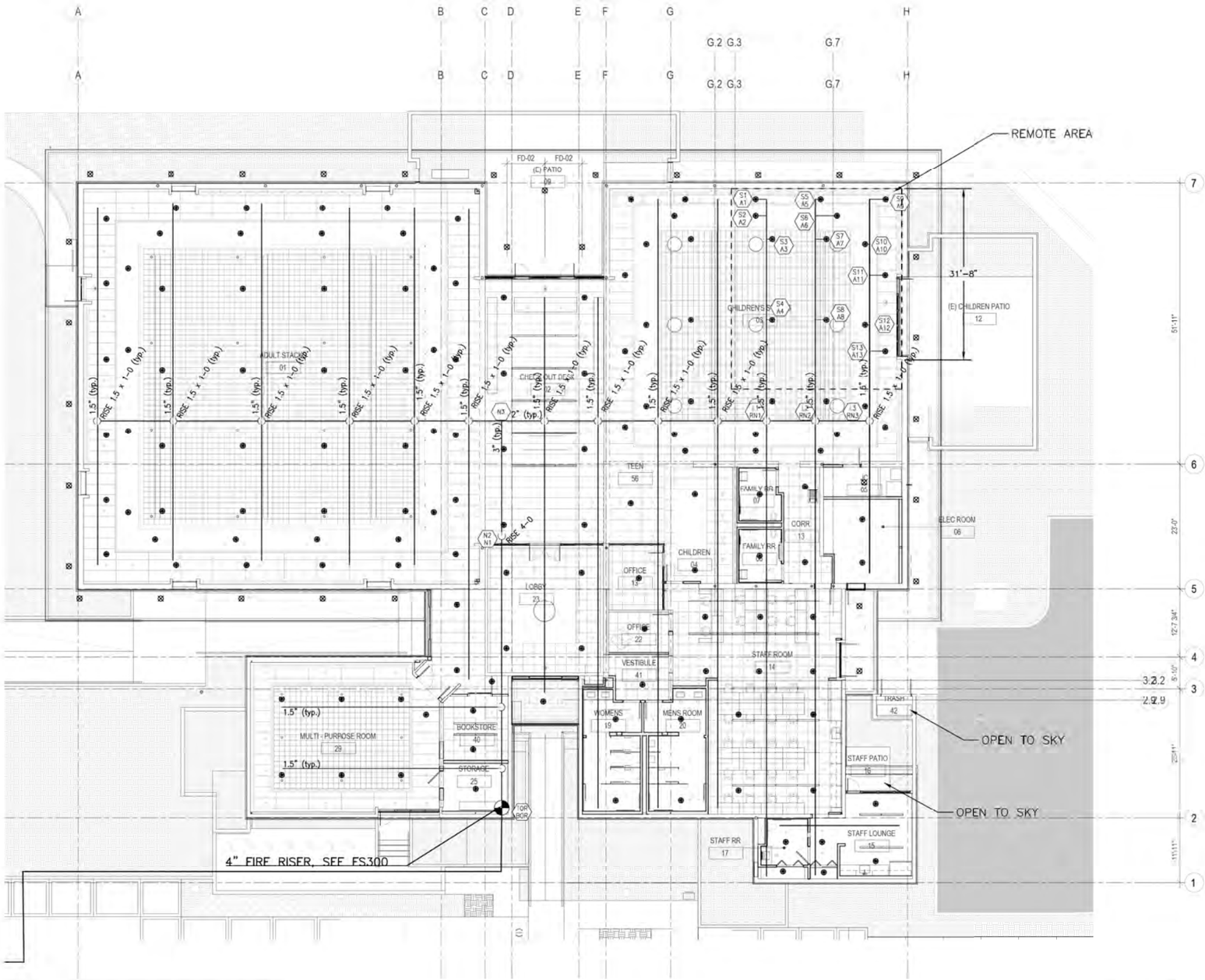
Sheet No.: FS100

## SPRINKLER SCHEDULE

| SYM | DESCRIPTION | MANUFACTURER | MODEL | K-FACTOR | TEMPERATURE RATING | SPRINKLER FINISH | ESCUTCHEON FINISH | SIN | QTY |
|---|---|---|---|---|---|---|---|---|---|
| ⊛ | QUICK-RESPONSE, CONCEALED PENDENT SPRINKLER | RELIABLE | I35-56 | 5.6 | 155°F | BRASS | WHITE | RA3415 | 149 |
| ⊠ | QUICK-RESPONSE, SEMIRECESSED PENDENT SPRINKLER | RELIABLE | F1FR56 | 5.6 | 200°F | CHROME | CHROME | RA1414 | 32 |

### SHEET NOTES

1. MUNICIPAL LIBRARY TO BE PROTECTED AS LIGHT HAZARD OCCUPANCY, PER NFPA 13 2016 A4 5.2.
2. FIRE SPRINKLERS AT EXTERIOR OVERHANGS AND WATER HEATER CLOSET SHALL BE OF INTERMEDIATE TEMPERATURE OR GREATER. SPRINKLERS REQUIRED BENEATH ALL OVERHANGS OF 4'-0" OR GREATER.
3. FIRE SPRINKLERS AT OUTSIDE OVERHANG TO BE SUPPLIED FROM SPRINKLER SYSTEM WITHIN CONCEALED SPACE SOFFIT. SPRINKLERS SHOWN HERE WITHOUT PIPING FOR REFERENCE.
4. ALL ARMOVERS SHALL BE 1" SCHEDULE 40 STEEL. ARMOVERS SHOWN IN MOST REMOTE AREA, BUT OMITTED ELSEWHERE FOR CLARITY


1 FS200 FIRE SPRINKLER REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

NORTH

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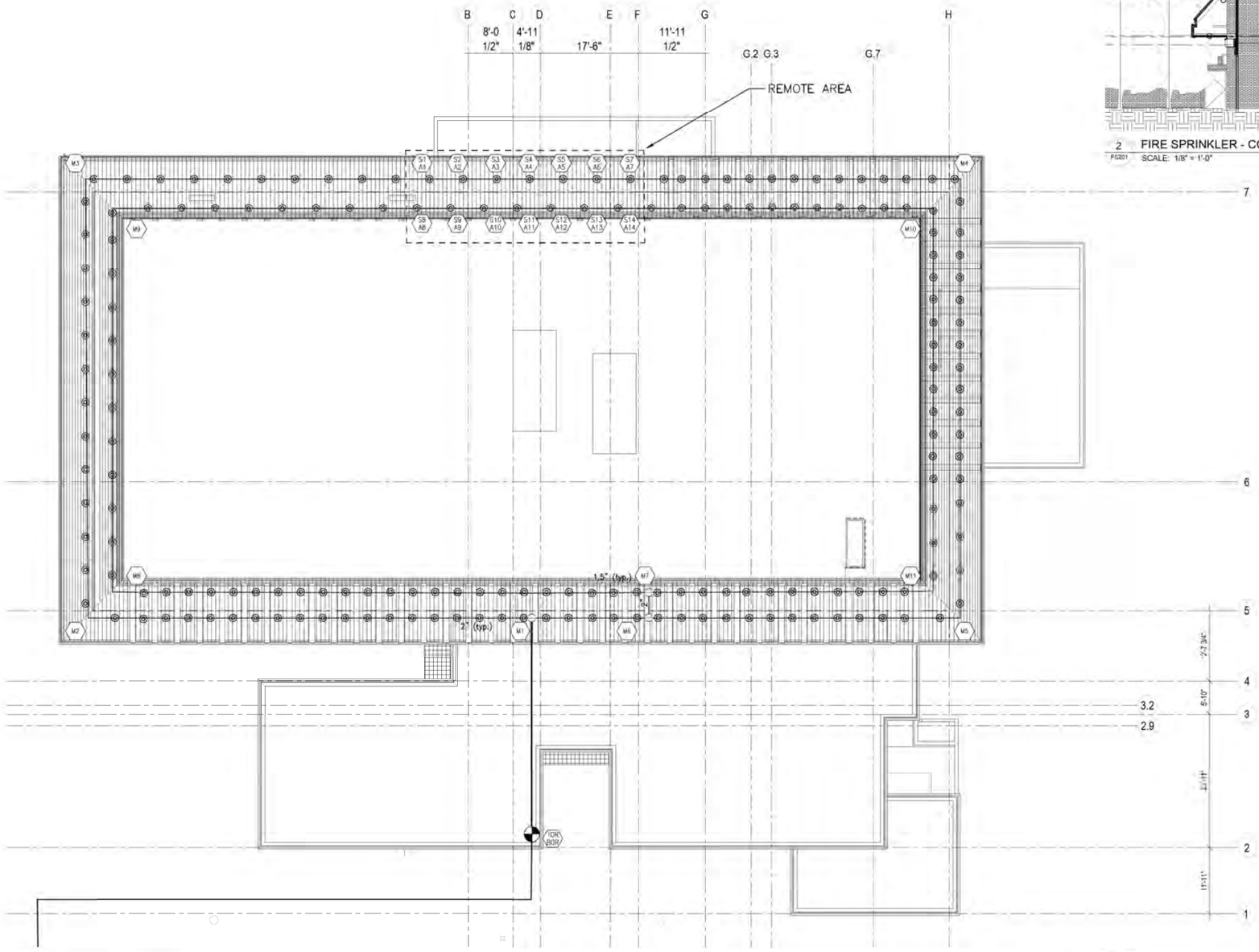
FIRE SPRINKLER REFLECTED CEILING PLAN

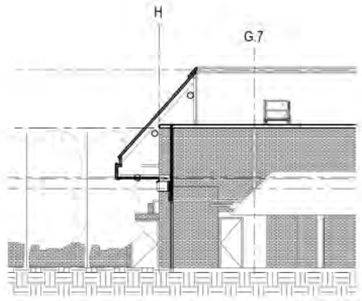
FS200

## SPRINKLER SCHEDULE

| SYM | DESCRIPTION | MANUFACTURER | MODEL | K-FACTOR | TEMPERATURE RATING | SPRINKLER FINISH | ESCUTCHEON FINISH | SIN | QTY |
|---|---|---|---|---|---|---|---|---|---|
| ◎ | QUICK-RESPONSE, UPRIGHT SPRINKLER | RELIABLE | F1FRS6 | 5.6 | 200 F | BRASS | | RA4MC6 | 188 |




1 FIRE SPRINKLER - CONCEALED SPACE
FS201 SCALE: 1/8" = 1'-0"




2 FIRE SPRINKLER - CONCEALED SPACE SECTION (TYP)
FS201 SCALE: 1/8" = 1'-0"

HYDRAULIC-SYSTEM

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Seal & Signature

Sheet Name
FIRE SPRINKLER CONCEALED SPACE PLAN

Project No.
Drawn By
Checked By
Scale
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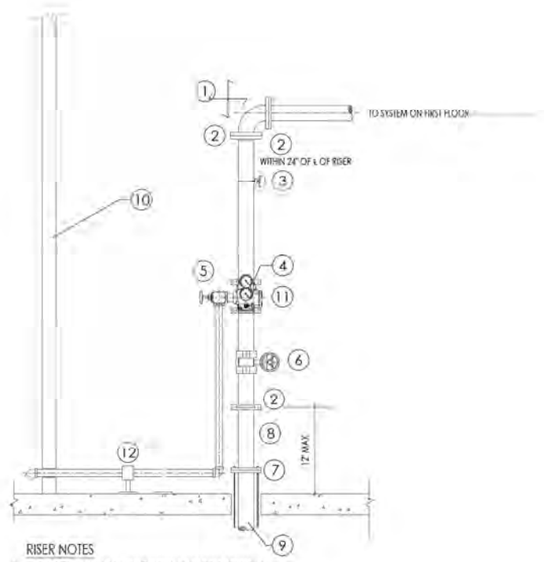
FS201




RISER NOTES

1. 4-WAY EARTHQUAKE BRACING WITHIN 24" OF RISER CENTER LINE
2. FLEXIBLE COUPLING
3. WATERFLOW SWITCH VANE TYPE POTTER VSR-4, CSFM 7770-0328:0001 OR EQUAL.
4. 0-100 PSI GAGE WITH VALVE TEST PLUG AND 3/4" PRESSURE-RELIEF VALVE (PIPE TO EXTERIOR; VALVE AND PIPING NOT SHOWN).
5. 3/4" MAIN DRAIN, WITH CHECK VALVE AND ASSOCIATED PRESSURE GAUGES. GALVANIZED PIPE WITH DISCIPLINE TO EXTERIOR WITH 45° ELL.
6. CONTROL VALVE WITH SUPERVISORY SWITCH. POTTER (OSYSU-), CSFM 7770-0328:0010 (UL BUTTERFLY VALVE WITH INTEGRATED CSFM LISTED SUPERVISORY SWITCH IS AN ACCEPTABLE SUBSTITUTION.) OR EQUAL
7. FLANGED CONNECTION TO UNDERGROUND WITH TIE RODS; SPRINKLER CONTRACTOR TO START AT FLANGED OUTLET AT BASE OF RISER
8. 4" SPRINKLER RISER (BY OTHERS)
9. FIRE SERVICE STUB-UP
10. EXTERIOR WALL
11. CHECK VALVE
12. PIPE STAND (TOLCO 836899 SEISMIC BASE STAND WITH TOLCO FIG. 319A PIPE SADDLE) OR EQUAL

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FIRE SPRINKLER RISER

Project No: 24183
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Checked By: Checker
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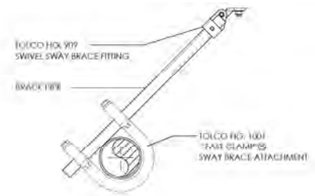
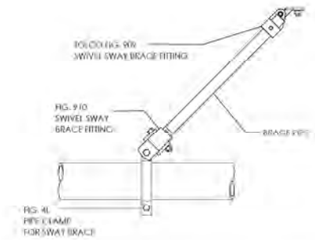
1 FAST CLAMP RISER BRACE
NO SCALE

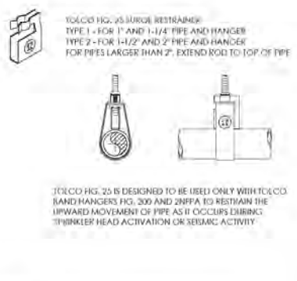



2 LATERAL EARTHQUAKE BRACE
NO SCALE

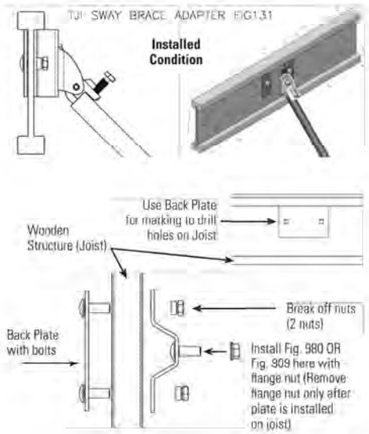



3 LONGITUDINAL EARTHQUAKE BRACE
NO SCALE


4 ROD AND RING HANGER
ROD AND RING HANGER DETAIL
NO SCALE

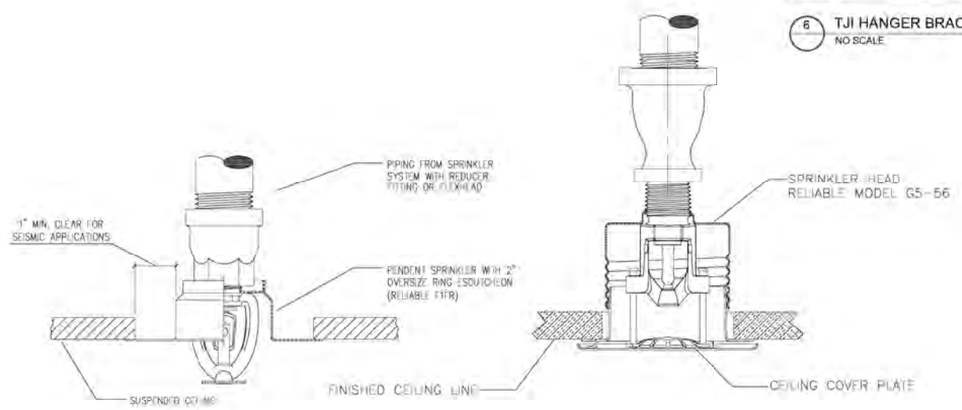



5 FIGURE 25 SURGE RESTRAINER
NO SCALE




**Maximum Design Load 700 lbs. (3.09kn)**

6 TJI HANGER BRACE
NO SCALE




7 FIRE SPRINKLER HEAD DETAILS
NO SCALE

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FIRE SPRINKLER AND HANGER DETAILS

FS400

# ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

## Abbreviations

| | |
|---|---|
| AFF | ABOVE FINISHED FLOOR |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE |
| AWG | AMERICAN WIRE GAUGE |
| A | AMPERES, AMBER |
| AHJ | AUTHORITY HAVING JURISDICTION |
| AIC | AVAILABLE INTERRUPTING CAPACITY |
| BAS | BUILDING AUTOMATION SYSTEM |
| CLG | CEILING |
| C | CONDUIT, CLOSE; CONTROL |
| COORD | COORDINATE |
| CU | COPPER |
| (D) | DEMOLISH |
| DIA | DIAMETER |
| DIM | DIMENSION |
| DIV | DIVISION |
| DWG | DRAWING |
| EMT | ELECTRICAL METALLIC TUBING |
| E | EMERGENCY |
| EF | EXHAUST FAN |
| (E) | EXISTING |
| FA | FIRE ALARM |
| FACP | FIRE ALARM CONTROL PANEL |
| FT | FOOT, FEET |
| (F) | FUTURE |
| G, GND | GROUND |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| HH | HANDHOLE |
| ID | IDENTIFICATION |
| IN | INCH; INCHES |
| KVA | KILOVOLT AMPERES |
| KW | KILOWATT |
| LED | LIGHT EMITTING DIODE |
| LV | LOW VOLTAGE |
| MOCP | MAXIMUM OVERCURRENT PROTECTION |
| MIN | MINIMUM |
| MCA | MINIMUM CIRCUIT AMPS |
| MISC | MISCELLANEOUS |
| MT, MTD | MOUNT, MOUNTED |
| NEC | NATIONAL ELECTRIC CODE |
| NESC | NATIONAL ELECTRIC SAFETY CODE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| N | NEUTRAL |
| (N) | NEW |
| N/A | NOT APPLICABLE |
| N.I.C. | NOT IN CONTRACT |
| NTS | NOT TO SCALE |
| OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED |
| PNL | PANEL |
| PH | PHASE |
| PVC | POLY-VINYL-CHLORIDE |
| PWR | POWER |
| QTY | QUANTITY |
| REF | REFERENCE |
| (R) | RELOCATE |
| RFI | REQUEST FOR INFORMATION |
| RQD | REQUIRED |
| RM | ROOM |
| SHT | SHEET |
| STD | STANDARD |
| SPD | SURGE PROTECTION DEVICE |
| SWBD | SWITCHBOARD |
| TBD | TO BE DETERMINED |
| XFMR | TRANSFORMER |
| TYP | TYPICAL |
| UG | UNDERGROUND |
| UL | UNDERWRITERS LABORATORIES |
| UPS | UNINTERRUPTIBLE POWER SUPPLY |
| UON | UNLESS OTHERWISE NOTED |
| VFD | VARIABLE FREQUENCY DRIVE |
| V | VOLTS; VOLTAGE |
| WP | WEATHERPROOF |
| W/ | WITH |
| W/O | WITHOUT |

## Connections / Equipment

- COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH
- HEAVY DUTY FUSED DISCONNECT SWITCH
- MOTOR CONNECTION
- NON-FUSED DISCONNECT SWITCH
- CEILING MOUNTED JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- WALL-MOUNTED JUNCTION BOX

## General

- DETAIL NUMBER AND SHEET LOCATION
- EQUIPMENT IDENTIFICATION
- KEYED NOTE
- DEMOLISH
- EXISTING WORK
- NEW WORK

## Lighting

- EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- RECESSED 2' X 2' LUMINAIRE
- RECESSED 2' X 4' LUMINAIRE
- RECESSED LUMINAIRE
- SURFACE OR PENDANT MOUNTED STRIPLIGHT
- WALL MOUNTED LUMINAIRE
- AREA BOLLARD LUMINAIRE WITH CONCRETE BASE
- AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE, NUMBER OF HEADS AND CONFIGURATION INDICATED ON PLANS
- AREA LUMINAIRE POLE TOP MOUNTED WITH POLE AND CONCRETE BASE

## Miscellaneous

- #10 (1-3T,2N,G) — BRANCH CIRCUIT WIRING, ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE (E) #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES 'ISOLATED GROUND' (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
- BRANCH PANEL
- CIRCUIT BREAKER
- FLUSH WALL MOUNTED BRANCH PANEL
- GROUND BAR
- GROUND ROD
- MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
- METER WITH CONNECTION
- UTILITY TRANSFORMER PAD/VAULT

## Raceways

- CONDUIT CONCEALED IN WALL OR CEILING SPACE
- CONDUIT ROUTED BELOW FLOOR / GRADE
- CONDUIT ELLED DOWN
- CONDUIT ELLED UP
- CONDUIT/WIRING CONTINUATION
- CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING

## Switches and Receptacles

- WALL-MOUNTED TOUCH SCREEN CONTROLLER
- DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS):
  A = ABOVE COUNTER
  B = CLOCK HANGER
  C = FLUSH CEILING MOUNTED
  E = EMERGENCY
  F = ARC FAULT PROTECTED BY BREAKER IN PANEL
  G = GROUND FAULT CIRCUIT INTERRUPTER
  H = HOSPITAL GRADE
  K = CHILD RESISTANT COVER
  L = ISOLATED GROUND
  P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH
  R1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAY
  R2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAY
  S = SPLIT WIRED
  T = TAMPER RESISTANT SHUTTERED RECEPTACLE
  U = USB PORT(S)
  W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
- DUPLEX RECEPTACLE, FLUSH FLOOR
- DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR
- DOUBLE DUPLEX RECEPTACLE, SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- SPECIAL PURPOSE RECEPTACLE, LETTER CODE DENOTES RECEPTACLE CONFIGURATION.
  LX=XXX = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE
  X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE
  P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH
  X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
- CEILING MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  U = ULTRASONIC, 360 DEG RANGE
  H = ULTRASONIC, HALLWAY PATTERN
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR/SWITCH
  S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH
  * = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL 'OFF' SWITCHES
  D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- PHOTO ELECTRIC SWITCH
  D = CONTINUOUS DIMMING PHOTOCELL
  S = SWITCHED PHOTOCELL
- SINGLE POLE SWITCH
  2 = DOUBLE POLE SWITCH
  3 = THREE-WAY SWITCH
  4 = FOUR-WAY SWITCH
  # THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION.
  D = DIMMER
  F = FAN SPEED CONTROL
  K = KEY OPERATED SWITCH
  L = LIGHTED HANDLE
  M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
  P = SWITCH WITH PILOT LIGHT
  S = SENTRY SWITCH
  T = INTERVAL TIMER
  W = WEATHERPROOF SWITCH
  V = LOW VOLTAGE SWITCH

# SCOPE OF WORK

1. DEMOLISHED EXISTING MAIN SWITCHBOARD, PANELBOARDS, LIGHTING, AND LIGHTING CONTROL SYSTEM.
2. PROVIDE NEW ELECTRICAL DISTRIBUTION SYSTEM IN NEW ELECTRICAL ROOM TO SERVE NEW AND EXISTING LOADS.
3. PROVIDE NEW LIGHTING DESIGN AND LIGHTING CONTROL SYSTEM.
4. PROVIDE NEW POWER DEVICES IN RENOVATION AREAS AND RECONNECT EXISTING POWER DEVICES IN EXISTING AREAS.
5. PROVIDE POWER CONNECTION TO NEW HVAC AND PLUMBING EQUIPMENT.

# SHEET INDEX



# GENERAL ELECTRICAL NOTES

A. DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.

B. ELECTRICAL CIRCUITS SHALL BE INTERRUPTED ONLY WITH PRIOR WRITTEN CONSENT. SUCH INTERRUPTIONS SHALL BE PRECEDED BY ALL POSSIBLE PREPARATIONS BY THE CONTRACTOR WHICH ARE NECESSARY TO KEEP THE ELECTRICAL CIRCUITS OFF FOR A MINIMUM PERIOD IN AN EXPEDITIOUS MANNER PURSUANT WITH GOOD WORKMANSHIP. THIS INCLUDES CIRCUIT TRACING TO IDENTIFY THE ELECTRICAL LOAD BEING SERVED AND THE ORIGIN OF THE CIRCUIT.

C. COORDINATE WITH OWNER SO THAT WORK CAN BE SCHEDULED NOT TO INTERRUPT OPERATIONS. NORMAL ACTIVITIES, BUILDING ACCESS, ACCESS TO DIFFERENT AREAS. THE OWNER WILL COOPERATE TO THE BEST OF THEIR ABILITY TO ASSIST IN A COORDINATED SCHEDULE, BUT WILL REMAIN THE FINAL AUTHORITY AS TO TIME OF WORK PERMITTED.

D. COORDINATE THE EXACT LOCATION OF EXISTING UTILITIES AND EQUIPMENT PRIOR TO COMMENCEMENT OF WORK. COMPENSATE THE OWNER FOR DAMAGES CAUSED BY THE FAILURE TO LOCATE AND PRESERVE UTILITIES. REPLACE DAMAGED ITEMS WITH NEW MATERIAL TO MATCH EXISTING.

E. REMOVE EXISTING LUMINAIRES, SWITCHES, RECEPTACLES, AND OTHER ELECTRICAL EQUIPMENT AND DEVICES AND ASSOCIATED WIRING FROM WALLS, CEILINGS, FLOORS, AND OTHER SURFACES SCHEDULED FOR REMODELING, RELOCATION, OR DEMOLITION UNLESS SHOWN AS RETAINED OR RELOCATED ON DRAWINGS.

F. MAINTAIN ELECTRICAL CONTINUITY OF EXISTING SYSTEMS. REMOVE OR RELOCATE ELECTRICAL BOXES, CONDUIT, WIRING, EQUIPMENT, LUMINAIRES, AND THE LIKE, AS REQUIRED IN REMOVED OR REMODELED AREAS IN THE EXISTING CONSTRUCTION AFFECTED BY THIS WORK.

G. REMOVE AND RESTORE WIRING WHICH SERVES USABLE EXISTING OUTLETS CLEAR OF THE CONSTRUCTION OR DEMOLITION.

H. IF EXISTING JUNCTION BOXES WILL BE MADE INACCESSIBLE, OR IF ABANDONED OUTLETS SERVE AS FEED THROUGH BOXES FOR OTHER EXISTING ELECTRICAL EQUIPMENT WHICH IS BEING RETAINED, PROVIDE NEW CONDUIT AND WIRE TO BYPASS THE ABANDONED OUTLETS.

IF EXISTING CONDUITS PASS THROUGH PARTITIONS OR CEILING WHICH ARE BEING REMOVED OR REMODELED, PROVIDE NEW CONDUIT AND WIRE TO REROUTE CLEAR OF THE CONSTRUCTION OR DEMOLITION AND MAINTAIN SERVICE TO THE EXISTING LOAD.

J. CONCEALED CONDUIT LOCATED IN CONCRETE WALLS OR HARDBOARD CEILING SPACES MAY BE ABANDONED IN PLACE. REMOVE CONDUCTORS AND TAG ABANDONED CONDUITS WITH CORRESPONDING SYSTEM AND TERMINATION POINT. CUT AND CAP ABANDONED CONDUIT. DO NOT EXTEND STUBS ABOVE FINISHED FLOOR.

K. EXTEND CIRCUITING AND DEVICES IN EXISTING WALLS TO BE FURRED OUT.

L. PROVIDE TEMPORARY SUPPORT FOR ELECTRICAL SYSTEMS THAT REMAIN IN PLACE.

M. VERIFY EXACT LOCATION AND NUMBER OF EXISTING ELECTRICAL OUTLETS AND LUMINAIRES IN THE FIELD. LOCATIONS OF ITEMS SHOWN ON DRAWINGS AS EXISTING ARE PLOTTED BASED ON RECORD AND OTHER DRAWINGS WHICH MAY CONTAIN ERRORS. VERIFY THE ACCURACY OF THE INFORMATION SHOWN PRIOR TO BIDDING AND PROVIDE SUCH LABOR AND MATERIAL AS IS NECESSARY TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS.

N. REMOVE ABANDONED WIRING TO LEAVE SITE CLEAN.

O. PROVIDE BLANK COVER PLATE FOR ABANDONED FLUSH OUTLETS.

P. EXISTING LIGHTING WHICH IS TO REMAIN OR BE RELOCATED IS TO BE RELAMPED, REBALLASTED, AND CLEANED. LEAVE ALL LUMINAIRES IN PROPER WORKING ORDER. REPLACE DAMAGED OR BROKEN LENS AND/OR COMPONENTS.

Q. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

R. WHERE DRAWINGS INDICATE EXISTING ELECTRICAL EQUIPMENT OR DEVICES TO BE RELOCATED AND/OR REUSED, REFURBISH THEM, THOROUGHLY CLEAN SUCH ITEMS, NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION PERFORMED UNDER THIS CONTRACT.

S. PROVIDE UPDATED PANEL SCHEDULES AND DIRECTORIES THAT IDENTIFY EXISTING CIRCUITS AND NUMBER OF SPARE CIRCUITS AVAILABLE UPON COMPLETION OF DEMOLITION WORK.

T. OFFER REMOVED LUMINAIRES, WIRING DEVICES, PANELBOARDS AND EQUIPMENT TO THE OWNER. IF OWNER CHOOSES TO RETAIN THESE ITEMS, RETURN SUCH ITEMS TO OWNER CAREFULLY REMOVE AND DISPOSE OF ITEMS REJECTED BY OWNER FROM PROJECT SITE AND IN A LEGAL MANNER.

U. RECONNECT EXISTING LUMINAIRES NOT SHOWN ON DRAWINGS AND AFFECTED DUE TO DEMOLITION TO NEAREST AVAILABLE EXISTING LIGHTING CIRCUIT ABLE TO TAKE THE ADDITIONAL LOAD.

V. PROVIDE SUITABLE ANCHORAGE AND SUPPORT FOR ELECTRICAL EQUIPMENT IN RATED WALLS, SLABS AND CEILINGS. MOUNT DEVICES AND RACEWAYS IN ACCORDANCE WITH ESTABLISHED CODES AND SPECIFICATIONS.

W. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

X. DRAWINGS AND SPECIFICATIONS COMPLIMENT EACH OTHER. REQUIREMENT BY EITHER INFERS REQUIREMENT BY BOTH.

Y. CONNECT EQUIPMENT AND DEVICES FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT, BY OWNER OR BY OTHER CONTRACTS.

Z. UNLESS OTHERWISE NOTED, PROVIDE CONCEALED AND FLUSH MOUNTED INSTALLATION OF DEVICES AND EQUIPMENT IN AREAS.

AA. PROVIDE SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN 120 VOLT, MULTI-WIRE CIRCUITS.

BB. FOR 120 VOLT, 20 AMP CIRCUITS: WHERE CIRCUIT LENGTH RANGE FROM PANELBOARD TO FARTHEST DEVICE/FIXTURE EXCEEDS 75 FEET, PROVIDE #10 SIZE CONDUCTOR.

CC. RUN ELECTRICAL CONDUIT CONCEALED AND PARALLEL TO BUILDING LINES. VERIFY WITH ARCHITECT.

DD. RECEPTACLE OUTLETS SHALL COMPLY WITH CEC SECTION 210.7.

EE. LIGHTS, SWITCHES AND CONTROL MECHANISMS SHALL COMPLY WITH CEC SECTION 404.

FF. BRACE ELECTRICAL EQUIPMENT TO RESIST A HORIZONTAL FORCE THAT ACT IN ANY DIRECTION, EQUAL TO WITH TITLE 24 ASCE 7 REQUIREMENTS.

GG. INSTALL COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEM THROUGHOUT BUILDING FOR FEEDERS, BRANCH CIRCUITS, ETC.

HH. INSTALLATION OF UTILITY SERVICE CONDUITS, VAULTS, GROUNDING, ETC. SHALL BE VERIFIED AND COORDINATED WITH UTILITY COMPANY PRIOR TO INSTALLATION, ALL WORK SHALL CONFORM WITH ALL UTILITY COMPANY RULES, REGULATIONS, AND STANDARDS. THE PROPOSED UTILITY COMPANY TRANSFORMER LOCATION, SERVICE FEEDER ROUTING, VAULT LOCATION AND SIZE ARE SUBJECT TO UTILITY COMPANY ENGINEERING, REVIEW AND APPROVAL. AT THE TIME OF THE ISSUANCE OF THESE DOCUMENTS, THIS ENGINEERING HAS NOT BEEN COMPLETED. CONTRACTOR SHALL COORDINATE AND VERIFY ALL THE NECESSARY UTILITY REQUIREMENTS FOR THIS PROJECT WITH UTILITY COMPANY PRIOR TO COMMENCING WORK.

II. ALL WORK ON SERVICE CONDUCTORS, FEEDERS, AND OTHER SUCH EQUIPMENT SHALL BE DONE ONLY WHEN SUCH CONDUCTORS, FEEDERS, AND EQUIPMENT ARE DE-ENERGIZED. THE CONTRACTOR SHALL HAVE AN "ELECTRICAL SAFETY AND LOCK-OUT/TAG-OUT PROCEDURE" IN PLACE PRIOR TO COMMENCEMENT OF WORK.

JJ. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT TRENCHING WITH OTHER DISCIPLINES AND THE UTILITY COMPANY TO AVOID CONFLICT.

KK. MINIMUM SIZE FOR EXTERIOR BELOW GRADE CONDUIT SHALL BE 1".

LL. OCCUPANCY SENSOR NOTES:
1. WALL SENSORS
   a. SENSOR MUST HAVE CLEAR "VIEW" OF OCCUPANTS. WHERE SENSOR/WALL IS BLOCKED, SUBSTITUTE WITH SMALL-ROOM CEILING SENSOR.
2. SEE MANUFACTURER'S SPECIFICATION REGARDING PLACING SENSORS AWAY FROM STRONG AIR-FLOW. INDICATE PRECISE LOCATION OF EACH CEILING SENSOR WHERE DRAWINGS INDICATE AIR SUPPLIES.
3. IN INDIVIDUAL ROOMS WITH CEILING SENSORS AND DUAL-LEVEL LIGHTING, ASSUME TWO TOGGLE SWITCH OVERRIDES PER ROOM.
4. PRIOR TO INSTALLATION, RECEIVE FACTORY-TRAINING AND LAYOUT-ASSISTANCE, IF LOCAL AGENT CHANGED LIGHTING DRAWINGS, CONTACT FACTORY REPRESENTATIVE.

MM. PROVIDE ALL BACKBOXES, FLOOR BOXES, FLOOR TRENCH DUCT, GROUNDING SYSTEM, PULL BOXES, CONDUITS, CABLING, AND CABLE TRAYS PER TELECOM/AV/SECURITY DRAWINGS AND SPECIFICATIONS. REFER TO TELECOM/AV/SECURITY DRAWINGS FOR QUANTITY AND LOCATIONS. PROVIDE ALL APPURTENANCES FOR A COMPLETE INSTALLATION.

NN. ALL AIC RATINGS SHOWN ARE MINIMUM REQUIREMENTS. COORDINATE AND UPGRADE RATINGS FOR ALL DISTRIBUTION EQUIPMENT AS PER SHORT CIRCUIT ANALYSIS RECOMMENDATIONS.

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CITY OF GOLETA

500 N Fairview Ave
Goleta, CA 93117

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Consultant:
INTERFACE ENGINEERING

Consultant:
JENSEN HUGHES

| Issued For: | |
|---|---|
| No. / Description | Date |
| 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| ISSUED FOR PERMIT | 20 DEC 2024 |
| 60% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| ISSUED FOR PERMIT | 09 MAR 2026 |

Key Plan:

Seal & Signature:

Sheet Name:
SYMBOL LIST AND GENERAL NOTES - ELECTRICAL

Project No: 24-0
Drawn By: Author
Checked By: Checker
Scale:

Sheet No:
E001

| | DESCRIPTION | IMAGE | LOCATION | ASSEMBLY STYLE | LAMP NUMBER | ASSEMBLY WATTAGE | TOTAL WATTS | QTY | TAX PAID | LUMENS | LUMENS/W | EFFICACY | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |

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| | ISSUED FOR PERMIT | 20 MAR 2025 |

LUMINAIRE SCHEDULE - ELECTRICAL

STATE OF CALIFORNIA
**Indoor Lighting**
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-LTI-E |
|---|---|
| This document is used to demonstrate compliance with requirements in 130.0, 130.1(a), 130.1(c), 130.1, 140.6 and 141.0(b)2 for indoor lighting spaces using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting spaces using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities. | |
| Project Name: | Report Page: (Page 4 of 11) |
| Project Address: | Date Prepared: 3/20/2025 |

**A. GENERAL INFORMATION**

| | | | |
|---|---|---|---|
| 01 | Project Location (city) | 04 Total Conditioned Floor Area ($ft^2$) | 14,389 |
| 02 | Climate Zone 6 | 05 Total Unconditioned Floor Area ($ft^2$) | 0 |
| 03 | Occupancy Types Within Project (select all that apply): | 06 # of Stories (Habitable Above Grade) | 1 |

• Library • Office • Retail • Support Areas. • All Other Occupancies.

**B. PROJECT SCOPE**

*This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations:*

| Scope of Work | Conditioned Spaces | | Unconditioned Spaces | |
|---|---|---|---|---|
| | 02 | 03 | 04 | 05 |
| My Project Consists of (check all that apply): | Calculation Method | Area ($ft^2$) | Calculation Method | Area ($ft^2$) |
| ☒ New Lighting System | Area Category Method | 14389 | Area Category Method | 0 |
| ☐ New Lighting System - Parking Garage | | | | |
| **Total Area of Work ($ft^2$)** | 14389 | | 0 | |

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STATE OF CALIFORNIA
**Indoor Lighting**
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-LTI-E |
|---|---|
| Project Name: | Report Page: (Page 2 of 11) |
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**C. COMPLIANCE RESULTS**

*If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Condition," refer to Table D for guidance.*

| Lighting in conditioned (and unconditioned spaces that must be combined for compliance per 140.6(b)1 / 170.2(e)) | Allowed Lighting Power per 140.6(a) / 170.2(e) (Watts) | | | | | | Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts) | | | | Compliance Results |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 02 | 03 | 04 | 05 | | 06 | 07 | 08 | | 09 |
| | Complete Building 140.6(c)1 | Area Category 140.6(a)2 / 170.2(e)A | Area Category Additional 140.6(c)2G / 170.2(e)4Aiv (+) | Allowed 140.6(a)3 / 170.2(e)4B (+) | | Total Allowed (Watts) | Total Designed (Watts) | Adjustments for Lighting Control Credits 140.6(a)2 / 120.2(e)1B (-) | | Total Adjusted (Watts) *Includes Adjustments | |
| | (See Table I) | (See Table I) | (See Table K) | (See Table K) | | | (See Table H) | (See Table F) | | | |
| **Conditioned** | | 10,613.9 | 1,991 | | = | 12,104 | 11,839 | 0 | = | 11839 | COMPLIES |
| **Unconditioned** | | | | | = | 0 | | | = | | |
| **Controls Compliance (See Table H for Details)** | | | | | | | | | | | COMPLIES |
| **Rated Power Reduction Compliance (See Table Q for Details)** | | | | | | | | | | | |

**D. EXCEPTIONAL CONDITIONS**

*This table is pain-filled with conditions/comments because of selections made or data entered in tables throughout the form.*

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

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STATE OF CALIFORNIA
**Indoor Lighting**
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-LTI-E |
|---|---|
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**F. INDOOR LIGHTING FIXTURE SCHEDULE**

*This table includes all planned permanent and portable lighting other than shelving unit/ forklift/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, cooking or sanitation, those luminaires are not included here.*

**Designed Wattage Conditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Field Inspector | |
| Name or Type Tag | Complete Luminaire Description | Remote (Track) Fixture | Small Aperture & Color Change | Watts per Luminaire | How is Wattage determined | Total Number of Luminaires | Excluded per 140.6(a)3 / 170.2(e)2C | Design Watts | Pass | Fail |
| A | A - LED LINEAR | No | NA | 36 | Mfr Spec | 7 | No | 252 | ☐ | ☐ |
| FC-01 | FC-01 COVE LIGHT (8.5W/FT) | No | NA | 8.5 | Mfr Spec | 697 | No | 5,882 | ☐ | ☐ |
| FC-02 | FC-02 COVE LIGHT (6W/FT) | No | NA | 6 | Mfr Spec | 40 | No | 240 | ☐ | ☐ |
| FD-01 | FD-01 LED DOWNLIGHT | No | NA | 17 | Mfr Spec | 132 | No | 2,244 | ☐ | ☐ |
| FD-03 | FD-03 SUSPENDED CYLINDER | No | NA | 25 | Mfr Spec | 25 | No | 625 | ☐ | ☐ |
| FD-04 | FD-04 LED WALLWASHER | No | NA | 19 | Mfr Spec | 11 | No | 209 | ☐ | ☐ |
| FI-01 | FI-01 RECESSED LINEAR (8W/FT) | No | NA | 8 | Mfr Spec | 32 | No | 193 | ☐ | ☐ |
| FP-01 | FP-01 LED LINEAR (44W/8FT) | No | NA | 44 | Mfr Spec | 43 | No | 1,892 | ☐ | ☐ |
| FP-03 | FP-03 SUSPENDED CIRCULAR LED | No | NA | 29 | Mfr Spec | 10 | No | 290 | ☐ | ☐ |
| WS-01 | WS-01 | No | NA | 6.5 | Mfr Spec | 2 | No | 13 | ☐ | ☐ |
| | | | | | | | **Total Designed Watts: CONDITIONED SPACES** | 11,839 | | |

*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

*Authority having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

**G. MODULAR LIGHTING SYSTEMS**

*This section does not apply to this project.*

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STATE OF CALIFORNIA
**Indoor Lighting**
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE: | NRCC-LTI-E |
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**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

*This table includes lighting controls for conditioned and unconditioned spaces.*

**Building Level Controls**

| 01 | 02 | 03 | |
|---|---|---|---|
| | | Field Inspector | |
| Mandatory Demand Response 110.12(c) | Shut off controls 130.1(c) / 160.5(b)4C | Pass | Fail |
| Required >= 4,000W subject to multilevel | Whole Building Auto Time Switch | ☐ | ☐ |

**Area Level Controls**

| 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Field Inspector | |
| Area Description | Complete Building or Area Category Primary Function Area | Manual Area Controls 130.1(a) / 160.5(b)4A | Multi-Level Controls 130.1(b) / 160.5(b)4B | Shut-Off Controls 130.1(c) // 160.5(b)4C | Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D | Secondary Daylighting 130.1(d) / 160.5(b)4D | Interlocked Systems 140.6(a)1 / 170.2(e)2A | Pass | Fail |
| Utility Room | Electrical Mechanical Telephone Room | Readily Accessible | NA: General Lig.<= 0.5W/ft2 | NA: Elec. equip. rm | NA: Rm < 24sf Glazing | NA: Rm < 24sf Glazing | No | ☐ | ☐ |
| Restroom | Restroom | Readily Accessible | NA: Restrooms | Occupancy Sensor | NA: Rm < 24sf Glazing | NA: Rm < 24sf Glazing | No | ☐ | ☐ |
| Corridor | Corridor | Readily Accessible | Dimmer | Occupancy Sensor | NA: Rm < 24sf Glazing | NA: Rm < 24sf Glazing | No | ☐ | ☐ |
| Lobby | Main Entry Lobby | Readily Accessible | Dimmer | Occupancy Sensor | NA: Rm < 24sf Glazing | NA: Rm < 24sf Glazing | No | ☐ | ☐ |
| Office | Office ( <=250 square feet) | Readily Accessible | Dimmer | Occupancy Sensor | NA: Rm < 24sf Glazing | NA: Rm < 24sf Glazing | No | ☐ | ☐ |
| Open Office | Office ( <=250 square feet) | Readily Accessible | Dimmer | Occupancy Sensor | NA: Rm < 24sf Glazing | NA: Rm < 24sf Glazing | No | ☐ | ☐ |
| Library Children Reading | Library - Reading Area | Readily Accessible | Dimmer | Occupancy Sensor | Included | NA: Skylight shaded | No | ☐ | ☐ |
| Library | Library - Stacks | Readily Accessible | Dimmer | Occupancy Sensor | NA: Rm < 24sf Glazing | NA: Rm < 24sf Glazing | No | ☐ | ☐ |

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STATE OF CALIFORNIA
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**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Multipurpose | Convention, Conference, Multipurpose and Meeting Center | Readily Accessible | Dimmer | Occupancy Sensor | NA: Rm < 24sf Glazing | NA: Rm < 24sf Glazing | No | ☐ | ☐ |
| Bookstore | Retail Merchandise Sales | Readily Accessible | Dimmer | Auto. Time Switch | NA: Rm < 24sf Glazing | NA: Rm < 24sf Glazing | No | ☐ | ☐ |
| | | | | | | | 13 | | |
| | | | | | | | Plan Sheets Showing Daylit Zones: | | |

**I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS**

*Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.*

**Conditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | |
|---|---|---|---|---|---|---|
| | | | | | Additional Allowances / Adjustment | |
| Area Description | Complete Building or Area Category Primary Function Area | Allowed Density ($W/ft^2$) | Area ($ft^2$) | Allowed Wattage (Watts) | Area Category | PAF |
| Utility Room | Electrical Mechanical Telephone Room | 0.4 | 205 | 82 | No | No |
| Restroom | Restroom | 0.65 | 670 | 435.5 | No | No |
| Corridor | Corridor | 0.4 | 252 | 100.8 | No | No |
| Lobby | Main Entry Lobby | 0.7 | 1,930 | 1,351 | Yes | No |
| Office | Office ( <=250 square feet) | 0.65 | 207 | 134.6 | No | No |
| Open Office | Office ( >250 square feet) | 0.6 | 1,144 | 686.4 | No | No |
| Lounge | Lounge | 0.55 | 255 | 140.3 | No | No |
| Multipurpose | Convention, Conference, Multipurpose and Meeting Center | 0.75 | 939 | 704.2 | Yes | No |
| Library | Library - Reading Area | 0.8 | 8,466 | 6,772.8 | Yes | No |
| Storage | All Other Space Types | 0.4 | 186 | 74.4 | No | No |
| BOOKSTORE | Retail Merchandise Sales | 0.95 | 141 | 134 | No | No |

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**I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS**

| | | | |
|---|---|---|---|
| TOTALS: | 14,389 | 10,613.9 | See Tables I, J or F for details |

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**J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM**

*All areas indicated in Table I as using an additional allowance using the Area Category Method have been included in this table to calculate the additional allowance per Table 140.6-C / 170.2-M.*

**Conditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| Area Description | Primary Function Area | Applicable Qualifying Lighting System from Table 140.6-C | Allowed Density ($W/ft^2$ or W/ft or W/Unit) | Lig Area, Length or ATM/Mirror ($ft^2$, ft or #) | Total Allowance (Watts) | Luminaire Name or Item Tag | Watts per Luminaire | Number of Luminaire s | Total Design Watts |
| Lobby | Main Entry Lobby | DecorativeOrUtility A | 0.25 | 1930 | 482.5 | FC-02 | 6 | 40 | 240 |
| Total Design Watts | Calculated Allowance (Watts): | Total Additional Allowance for this area: | | | | | | | |
| 240 | 482.5 | 242.5 | | | | | | | |
| Multipurpose | Convention, Conference, Multipurpose and Meeting Center | DecorativeOrDisplay A | 0.25 | 939 | 334.8 | FC-01 | 8.5 | 93 | 595 |
| Total Design Watts | Calculated Allowance (Watts): | Total Additional Allowance for this area: | | | | | | | |
| 595 | 234.8 | 234.8 | | | | | | | |
| Library | Library - Reading Area | DecorativeOrDisplay A | 0.25 | 8466 | 2116.5 | FC-01 | 8.5 | 222 | 1887 |
| | | | | | | FC-03 | 8.5 | 395 | 3198 |
| Total Design Watts | Calculated Allowance (Watts): | Total Additional Allowance for this area: | | | | | | | |
| 5085 | 3116.5 | 3116.5 | | | | | | | |
| | 11 | | | | | | | | |
| **Total Additional Allowance (Watts) CONDITIONED SPACES** | | 2593 | | | | | | | |

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CALIFORNIA ENERGY COMMISSION

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**J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM**

**K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE**

*This section does not apply to this project.*

**L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY**

*This section does not apply to this project.*

**M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING**

*This section does not apply to this project.*

**N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS**

*This section does not apply to this project.*

**O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE**

*This section does not apply to this project.*

**P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))**

*This section does not apply to this project.*

**Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS**

*This section does not apply to this project.*

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STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

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**R. IEQ LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS**

*This section does not apply to the project.*

**S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)**

*This section does not apply to this project.*

**T. DWELLING UNIT LIGHTING**

*This section does not apply to this project.*

**U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*Selections have been made based on information provided in the document. If any selections have been changed by permit applicant, an explanation should be included in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online*

| Form Title |
|---|
| NRCI-LTI-E - Must be submitted for all buildings |

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Consultant: UPLA STUDIO

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| | ISSUED FOR PERMIT | 20 MAR 2025 |

Seal / Signature:

Sheet Name:
TITLE 24 - ELECTRICAL

Project No: 23.10
Drawn By: [illegible]
Checked By: [illegible]
Scale: 1/8" = 1'-0"

Sheet No: E003

STATE OF CALIFORNIA
## Indoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
|---|---|---|
| Project Name: | Report Page: | (Page 10 of 11) |
| | Date Prepared: | 3/20/2025 |

### V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

*Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and any work "not to be built from some must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: https://www.energy.ca.gov/title24/attcp/providers.html*

| Form/Title | System/Spaces To Be Field Verified |
|---|---|
| NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. | Whole Building; Time Switch; Restroom; Corridor; Lobby; Office; Open Office; Library Children Reading; Library Multipurpose; Bookstore; |
| NRCA-LTI-03-A - Must be submitted for automatic daylight controls. | Library Children Reading; |
| NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. | Whole; Building Demand Response; |

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STATE OF CALIFORNIA
## Indoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
|---|---|---|
| Project Name: | Report Page: | (Page 11 of 11) |
| Project Address: | Date Prepared: | 3/20/2025 |

### DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| Documentation Author Name: | Documentation Author Signature: |
|---|---|
| Wesley Lau | |
| Company: | Signature Date: |
| 601 S Figueroa Street Suite 2350 | CEA/HERS Certification Identification (if applicable): EJ2027 |
| City/State/Zip: Los Angeles CA 90017 | Phone: |

### RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

a. The information provided on this Certificate of Compliance is true and correct.
b. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
c. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
d. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
e. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| Responsible Designer Name: | Responsible Designer Signature: |
|---|---|
| Wesley Lau | |
| Company: | Date Signed: |
| Inverface Engineering | 2025-03-20 |
| Address: | License: |
| 601 S Figueroa Street Suite 2350 | EJ2027 |
| City/State/Zip: | Phone: |
| Los Angeles CA 90017 | |

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STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| Project Name: | Report Page: | (Page 1 of 9) |
| | Date Prepared: | 3/20/2025 |

### C. COMPLIANCE RESULTS

*Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D, Exceptional Conditions for guidance or see applicable Table referenced below.*

| Calculations of Total Allowed Lighting Power [Watts] 140.7 / 170.2(e)6 or 141.0(b)2I / 180.2(b)4Biv | | | | | | | | | | | Compliance Results | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | | 02 | | 03 | | 04 | | 05 | OR | 06 | | 07 | 08 | 09 |
| Common Hardscape Allowance (Table 140.7/170.2-A) (See Table I) | + | Per Application 140.7/170.2-B (See Table J) | + | Sales Frontage 140.7/170.2 (See Table K) | + | Ornamental 140.7/170.2 (See Table L) | + | Per Specific Area 140.7/170.2-B/C (See Table M) | OR | Existing Power Allowance 141.0(b)2I / 180.2(b)4Biv (See Table N) | = | Total Allowed (watts) | # | Total Actual (watts) | 07 must be >= 08 |
| 243 | + | 50 | + | | + | | + | 100 | OR | | = | 393 | ≥ | 346 | COMPLIES |
| Shielding Compliance (See Table G for Details) | | | | | | | | | | | | | | n/a |
| Controls Compliance (See Table H for Details) | | | | | | | | | | | | | | COMPLIES |

### D. EXCEPTIONAL CONDITIONS

*This table is pre-filled with predictable statements because of selections made or data entered in tables throughout the form.*

### E. ADDITIONAL REMARKS

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

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STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| Project Name: | Report Page: | (Page 2 of 9) |
| | Date Prepared: | 3/20/2025 |

### F. OUTDOOR LIGHTING FIXTURE SCHEDULE

*For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6B all new luminaires being installed and any existing luminaires remaining or being moved within the space(s) covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2I, only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table N, and are not included here. All other multifamily outdoor lighting is included here.*

**Designed Wattage:**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | Watts per luminaire[1] | How is Wattage determined | Total Number Luminaires[2] | Luminaire Status[3] | Excluded per 140.7(a) / 170.2(e)6A | Design Watts | Cutoff Req. = 6,200 initial lumen output 130.2(b) / 160.5(c)1[4] | Field Inspector Pass | Field Inspector Fail |
| RD-02 | RD-02 LED DOWNLIGHT | ☐ Linear | 10 | Mfr. Spec | 35 | New | ☐ | 350 | NA: < 6200 lumens | ☐ ☐ |
| S-01 | S-01 Wall Light | ☐ Linear | 10 | Mfr. Spec | 12 | New | ☐ | 120 | NA: < 6200 lumens | ☐ ☐ |
| S-02 | S-02 BOLLARD | ☐ Linear | 20 | Mfr. Spec | 1 | New | ☐ | 20 | NA: < 6200 lumens | ☐ ☐ |
| S-03 | S-03 AREA LIGHT | ☐ Linear | 32 | Mfr. Spec | 3 | New | ☐ | 96 | NA: < 6200 lumens | ☐ ☐ |
| S-04 | S-04 DIRECTION LIGHT | ☐ Linear | 8 | Mfr. Spec | 3 | New | ☒ | — | NA: < 6200 lumens | ☐ ☐ |
| | | | | | | | Total Design Watts | 586 | | |

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved (ie: Luminaire is lighting a stairway, ENCLOSING in 140.2(b))

[1] FOOTNOTE: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 150.0(k)

[2] For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

[3] Select "New" for new luminaires in a new outdoor lighting project, or for added Luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Relocated" for existing luminaires which are being removed and reinstalled as part of the project scope.

[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

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STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| Project Name: | Report Page: | (Page 3 of 9) |
| | Date Prepared: | 3/20/2025 |

### G. SHIELDING REQUIREMENTS (BUG)

*This section does not apply to this project.*

### H. OUTDOOR LIGHTING CONTROLS

*This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie uncircled) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.*

*Outdoor lighting for non-residential buildings, parking garages and common service areas in multi-family buildings must be documented separately from outdoor lighting installed in multi-family buildings and controlled from the inside of a dwelling unit.*

**Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings**

| 01 | 02 | 03 | 04 | 05 | |
|---|---|---|---|---|---|
| Area Description | Shut Off 130.2(c)1 / 160.5(c) | Astro-Schedule 130.2(c)2 / 160.5(c) | Motion Sensor 130.2(c)3 / 160.5(c) | Field Inspector Pass | Field Inspector Fail |
| Canopy | Astronomical Timer | Provided | NA: Each Luminaire <= 40 Watts | ☐ | ☐ |
| Landscape | Astronomical Timer | Provided | NA: Each Luminaire <= 40 Watts | ☐ | ☐ |

[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.

[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are exempted from 5 and 6.

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STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
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| Project Name: | Report Page: | (Page 4 of 9) |
| | Date Prepared: | 3/20/2025 |

### I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

*This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-A while "Use it or lose it" Allowances are per Table 140.7-B / Table 170.2-J. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowances.*

*Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table N, and are not included here. All other multifamily outdoor lighting is included here.*

| Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel: | | | | | | | | 01: "Use it or lose it" Allowance (select all that apply) (select all that apply) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ☒ General Hardscape Allowance Table I (Below) | ☒ Per Application Table J | ☐ Sales Frontage Table K | ☐ Ornamental Table L | ☒ Per Specific Area Table M |
| 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | | | | | |
| Area Description | Area Wattage Allowance (AWA) | | | Linear Wattage Allowance (LWA) | | | Total General AWA + LWA (Watts) | | | | | |
| | Illuminated Area (ft²) | Allowed Density (W/ft²) | Area Allowance (Watts) | Perimeter Length (ft) | Allowed Density (W/ft) | Linear Allowance (Watts) | | | | | | |
| Exterior pathway | 1000 | 0.019 | 19 | 160 | 0.2 | 24 | 43 | | | | | |
| Initial Wattage Allowance for Entire Site (Watts): | | | | | | | 200 | | | | | |
| Instances of Initial Wattage Allowance (LJ C only)[1] | | | | | | | | | | | | |
| Total General Hardscape Allowance (Watts): | | | | | | | 243 | | | | | |

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STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| Project Name: | Report Page: | (Page 5 of 9) |
| | Date Prepared: | 3/20/2025 |

### J. LIGHTING ALLOWANCE: PER APPLICATION

*This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-J.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| | | CALCULATED ALLOWANCE (Watts) | | | DESIGN WATTS | | | | |
| Area Description | Application per Table 140.7-B | # of Locations | Allowance per Location[2] | Extra Allowance (Watts) | Luminaire Name or Item Tag | Watts per Luminaire | # of Luminaires | Design Watts | Additional Allowance (Watts) |
| Entrance | Building Entrance/Exit | 4 | 15 | 10 | FD-02 | 10 | 5 | 50 | 50 |
| | | | | | Total Design Watts for this Area: | | | 50 | |
| | | | | | Total Allowance (Watts) All Areas: | | | | 50 |

[1] FOOTNOTES: Primary entrance applications are only available for service-type facilities, transitional facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.

[2] The Allowance per Location for 40 sq ft is 100W for the first ATM and 35W for each additional per Table 140.7-B / Table 170.2-J.

[3] For luminaires indicated in table J as linear, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

### K. LIGHTING ALLOWANCE: SALES FRONTAGE

*This section does not apply to this project.*

### L. LIGHTING ALLOWANCE: ORNAMENTAL

*This section does not apply to this project.*

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STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| Project Name: | Report Page: | (Page 6 of 9) |
| | Date Prepared: | 3/20/2025 |

### M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

*This table includes areas using the wattage allowance per specific area from Table 140.7-B / Table 170.2-J. More than one specific area allowance may be taken in a single project. If applicable, However, "outside specific area allowances may not be taken for the exact same area on the i.e.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| | | CALCULATED ALLOWANCE (Watts) | | | DESIGN WATTS | | | | |
| Area Description | Specific Area Type per Table 140.7-B | Specific Area (ft²) | Allowed Density (W/ft²) | Extra Allowance (Watts) | Luminaire Name or Item Tag | Watts per Luminaire | # of Luminaires | Design Watts | Additional Allowance (Watts) |
| Canopy | Itemized Canopy | 1500 | 0.1 | 142.5 | FD-01 | 10 | 90 | 900 | 900 |
| | | | | | Total Design Watts for this Area: | | | 900 | |
| | | | | | Total Allowance (Watts) All Areas: | | | | 900 |

[1] FOOTNOTES: See Table 140.7-B / Table 170.2-B for rules for calculating the specific areas (ft²) for these additional lighting allowances.

[2] For luminaires indicated in Table F as linear, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

### N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

*This section does not apply to this project.*

### O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

*Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online:*

| Form/Title |
|---|
| NRCI-LTD-E - Must be submitted for all buildings |

GOLETA LIBRARY

CITY OF GOLETA

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Goleta, CA 93117

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JM | A+D
[illegible]
Newport Beach, CA [illegible]
(949) 464-3251
www.JMADesigns.com

Consultant:
kpff

Consultant:
UPLA STUDIO

Consultant:
INTERFACE ENGINEERING

Consultant:
JENSEN HUGHES

| Issue/Print No. | Description | Date |
|---|---|---|
| 1 | ISSUED FOR PERMIT | 20 DEC 2024 |
| 2 | 60% CONSTRUCTION DOCUMENTS | 7 MAR 2025 |
| 3 | ISSUED FOR PERMIT | 20 MAR 2025 |

Key Plan:

Seal & Signature:

Sheet Name:
TITLE 24 - ELECTRICAL

Project No: 23.10
Drawn By: [illegible]
Checked By: [illegible]
Scale: 1/8" = 1'-0"

Sheet No: E004

STATE OF CALIFORNIA

**Outdoor Lighting** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| Project Name: | Report Page: | (Page # of #) |
| -- | Date Prepared: | 5/20/2025 |

**K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, the applicable should be included on Table 1 (additional Remarks). These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html*

| Form/Title | System/Spaces To Be Field Verified |
|---|---|
| NRCA-LTD-03-A - Must be submitted for all outdoor lighting controls except for situations where controls are added to <= 20 luminaires. | Canopy; Landscape; |

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STATE OF CALIFORNIA

**Outdoor Lighting** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| Project Name: | Report Page: | (Page # of #) |
| Project Address: | Date Prepared: | 5/20/2025 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| Documentation Author Name: | Documentation Author Signature: |
|---|---|
| Wesley Lau | |
| Company: | Signature Date: |
| Address: 101 S Figueroa Street Suite 2750 | CEA / HERS Certification Identification (if applicable): K23823 |
| City/State/Zip: Los Angeles CA 90017 | Phone: |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| Responsible Designer Name: | Responsible Designer Signature: |
|---|---|
| Wesley Lau | |
| Company: Interface Engineering | Title: Myself |
| Address: 101 S Figueroa Street Suite 2750 | License: 932607 |
| City/State/Zip: Los Angeles CA 90017 | Phone: |

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Corrected Date/Time: Report Version: 2022.0.000 Schema Version: rev.20220101 | Documentation Software: Energy Pro Compliance ID: Energy Pro-NRCC-LTO-E, Report Generated: 2025-05-20 11:53:19

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Consultant:
kpff

Consultant:
UPLA STUDIO

Consultant:
INTERFACE ENGINEERING

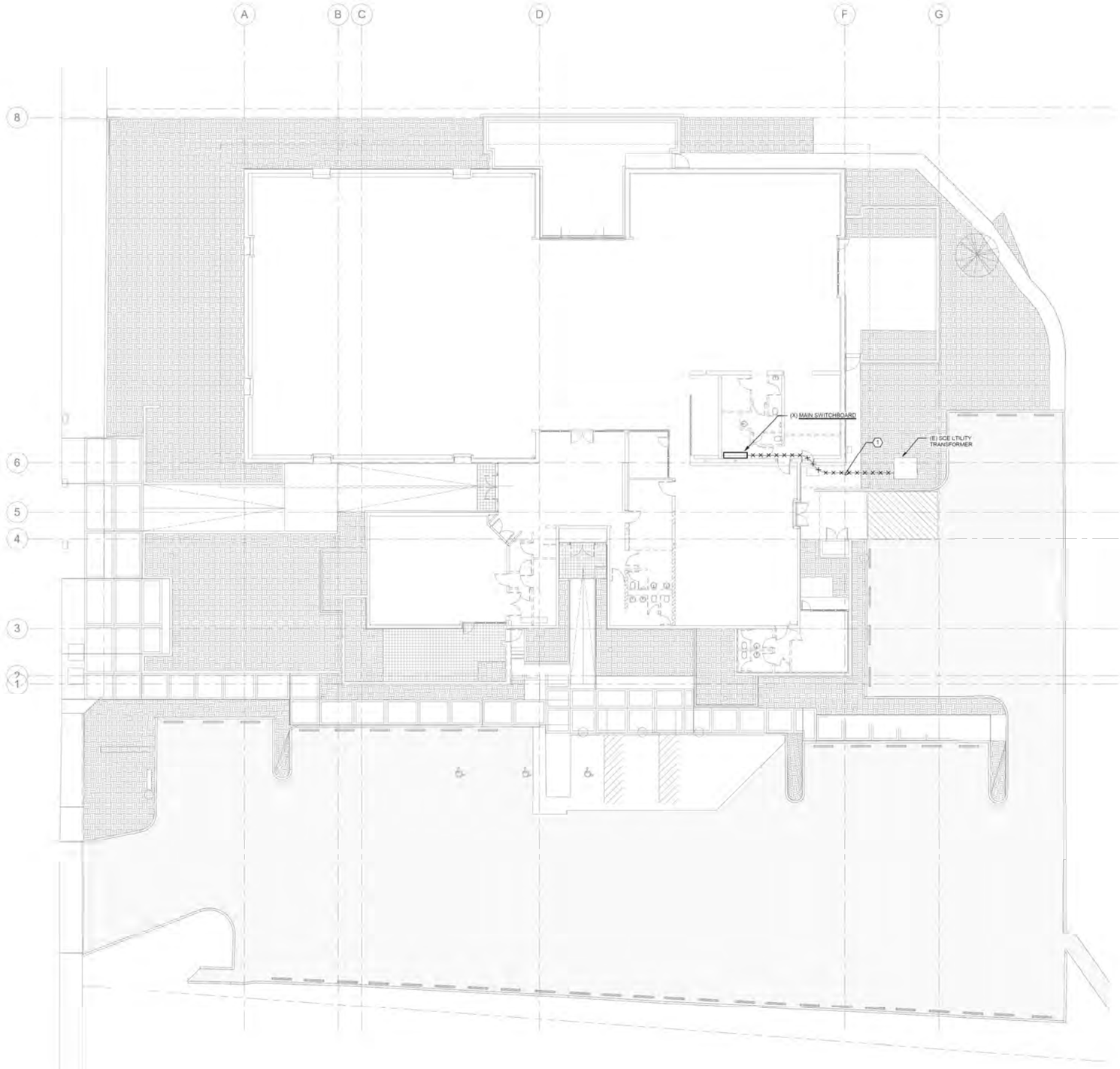
Consultant:
JENSEN HUGHES

| Issue/Rev. No. | Description | Date |
|---|---|---|
| | ISSUED FOR PERMIT | 28 MAR 2025 |

Sheet Title:
TITLE 24 - ELECTRICAL

Project No.: 23.10
Drawn By: Author
Checked By: Checker
Scale: 1/8" = 1'-0"

Sheet No.:
E005




1 FIRST FLOOR DEMOLITION PLAN - ELECTRICAL

3/32" = 1'-0"

## GENERAL SHEET NOTES

A. ALL EXISTING UNDERGROUND UTILITIES MAY NOT BE SHOWN. CONTRACTOR TO TONE FOR ALL EXISTING UNDERGROUND UTILITIES AND DUCTLINE PRIOR TO EXCAVATION. DAMAGES TO EXISTING UNDERGROUND UTILITIES AND/OR DUCTLINE SHALL BE REPAIRED AT NO COST TO THE OWNER.

## SHEET KEYNOTES

1. REMOVE EXISTING SERVICE CONDUIT AS SHOWN AND PROVIDE NEW SERVICE FEEDER TO NEW SWITCHBOARD. SEE SHEET E100 & E500 FOR ADDITIONAL INFORMATION.

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JM | A+D

kpff

INTERFACE ENGINEERING

JENSEN HUGHES

| No. | Description | Date |
|---|---|---|
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | ISSUED FOR PERMIT | 20 DEC 2024 |
| | 50% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| | ISSUED FOR PERMIT | 10 MAR 2026 |

SITE DEMOLITION PLAN - ELECTRICAL

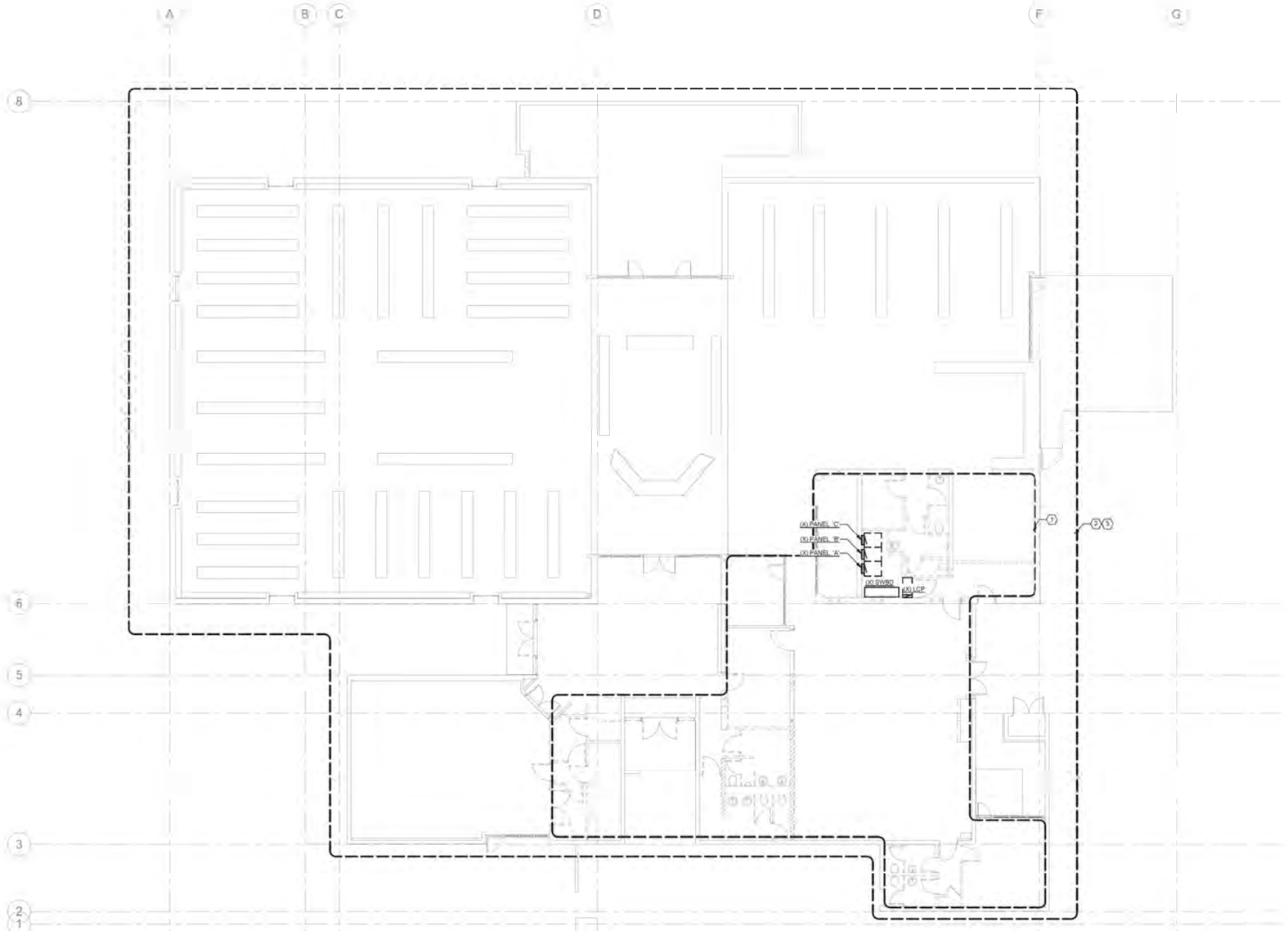
ED100

## SHEET KEYNOTES

1. REMOVE EXISTING SERVICE CONDUIT AS SHOWN AND PROVIDE NEW SERVICE FEEDER TO NEW SWITCHBOARD. SEE SHEET E100 & E500 FOR ADDITIONAL INFORMATION

## SHEET KEYNOTES

1. DEMOLISH EXISTING RECEPTACLES, JUNCTION BOXES, AND ASSOCIATED RACEWAY AND WIRING BACK TO SOURCE PANELBOARD
2. DEMOLISH EXISTING LUMINAIRES, SWITCHES, SENSORS, AND ASSOCIATED RACEWAY AND WIRING BACK TO SOURCE PANELBOARD.
3. DISCONNECT POWER TO EXISTING HVAC AND PLUMBING EQUIPMENT TO BE REMOVED, AND REMOVE DISCONNECT SWITCHES, RACEWAY AND WIRING BACK TO SOURCE.




1 FIRST FLOOR DEMOLITION PLAN - ELECTRICAL

1/8" = 1'-0"

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INTERFACE ENGINEERING

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| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
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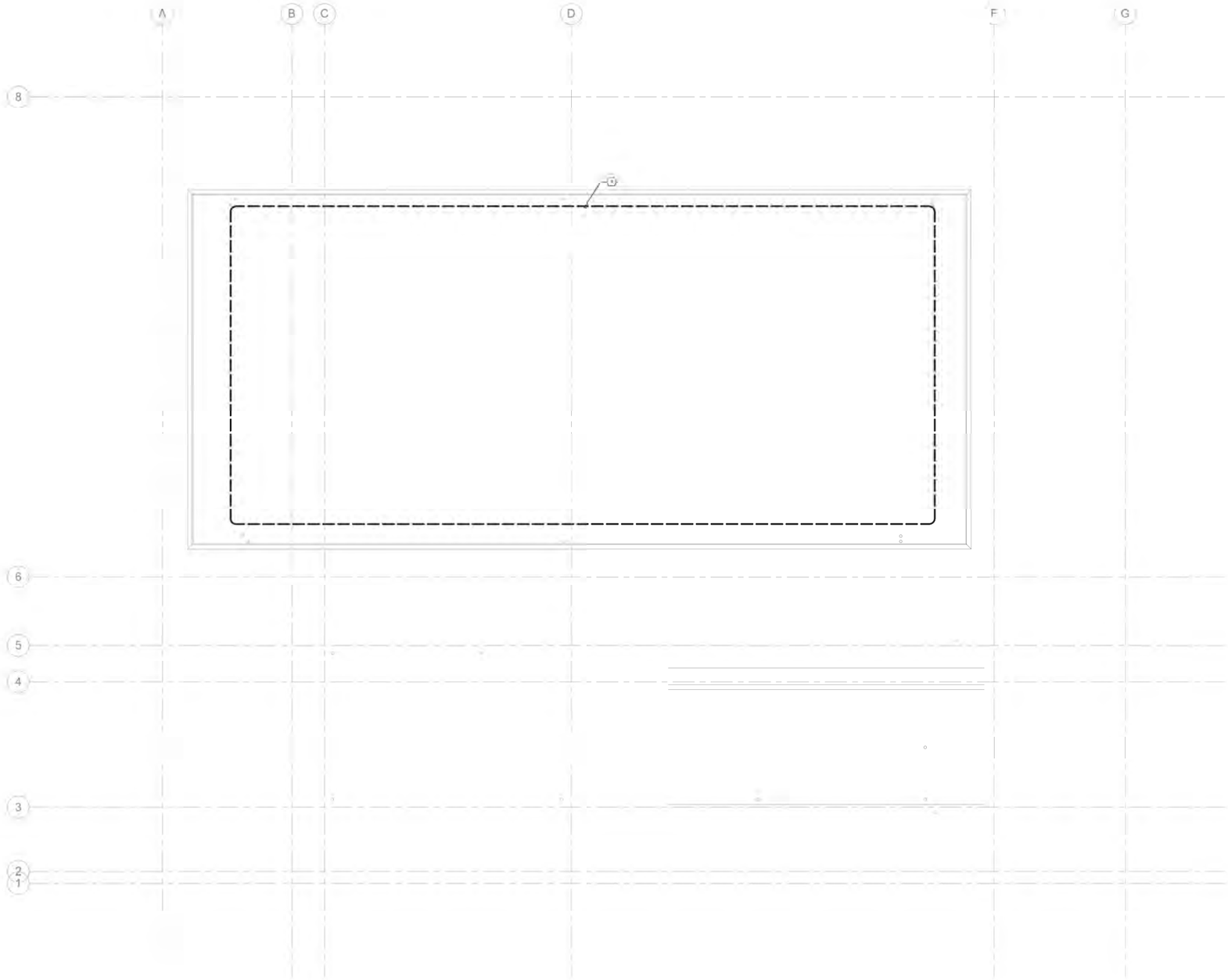
| | 60% CONSTRUCTION DOCUMENTS | 11 MAR 2025 |
| | ISSUED FOR PERMIT | 29 MAR 2025 |

FIRST FLOOR DEMOLITION PLAN - ELECTRICAL

ED200

## SHEET KEYNOTES

1. DISCONNECT POWER TO EXISTING HVAC AND PLUMBING EQUIPMENT TO BE REMOVED, AND REMOVE DISCONNECT SWITCHES, RACEWAY AND WIRING BACK TO SOURCE.




1 ROOF DEMOLITION PLAN - ELECTRICAL

1/8" = 1'-0"

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INTERFACE ENGINEERING

JENSEN HUGHES

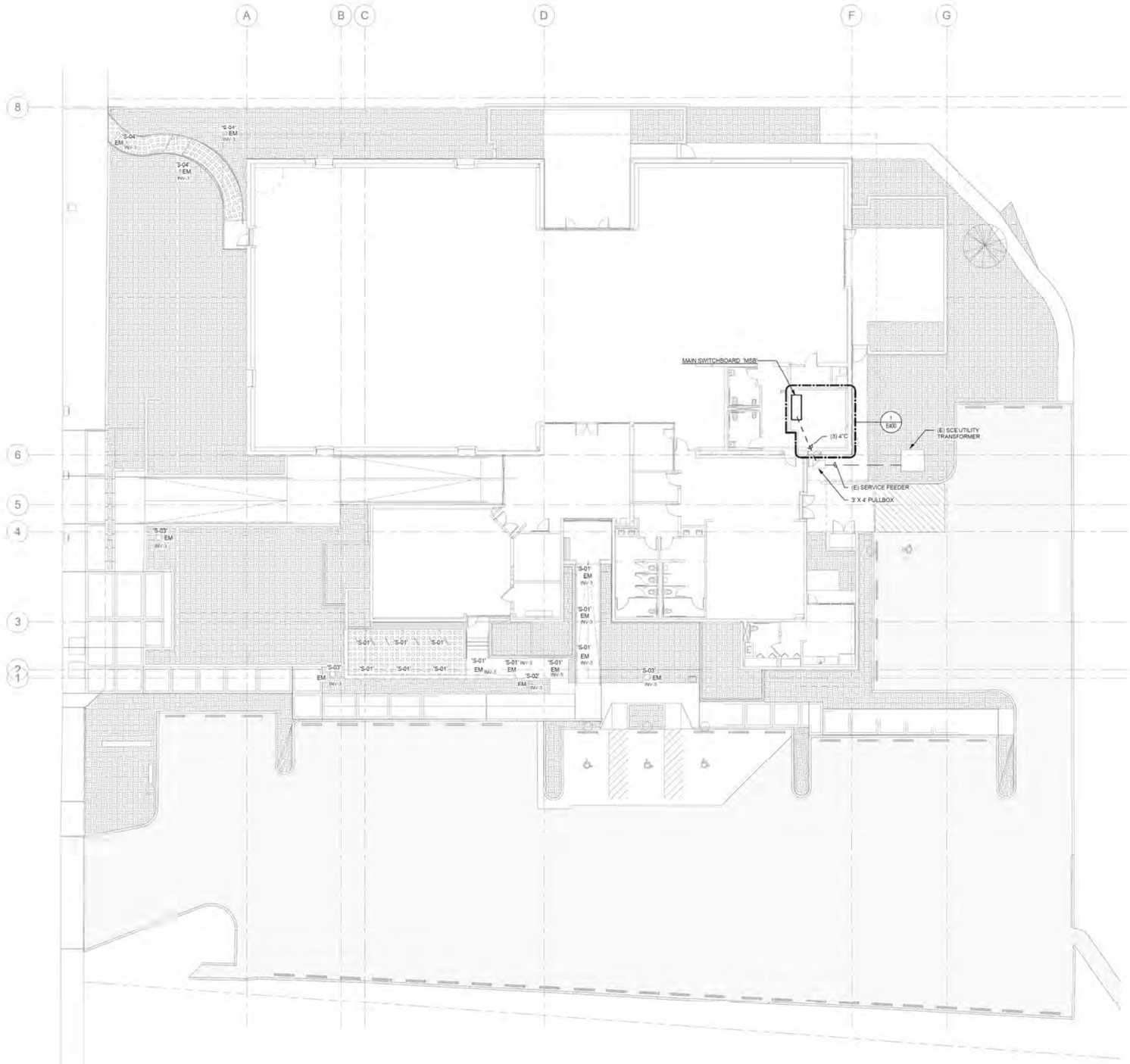
| No. | Description | Date |
|---|---|---|
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | ISSUED FOR PERMIT | 20 DEC 2024 |
| | 50% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| | ISSUED FOR PERMIT | 28 MAR 2025 |

ROOF DEMOLITION PLAN - ELECTRICAL

ED201

## GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH ARCHITECT PRIOR TO INSTALLATION.




1 OVERALL SITE PLAN - ELECTRICAL

3/32" = 1'-0"

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INTERFACE ENGINEERING

JENSEN HUGHES

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| ISSUED FOR PERMIT | 20 DEC 2024 |
| 60% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| ISSUED FOR PERMIT | 17 MAR 2025 |

OVERALL SITE PLAN - ELECTRICAL

E100

## GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH ARCHITECT PRIOR TO INSTALLATION.

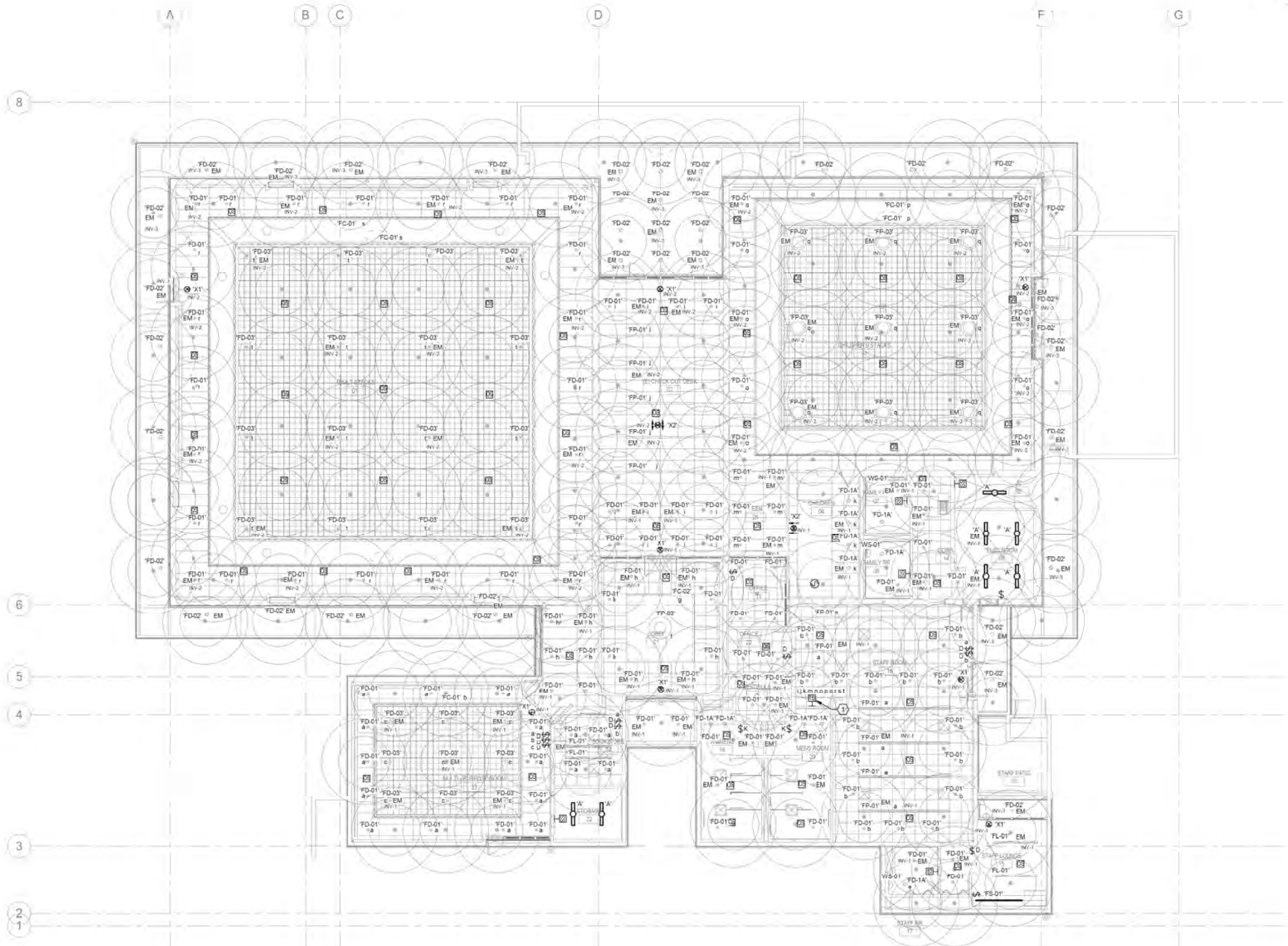
B. PROVIDE ALLOWANCES FOR EMERGENCY LIGHTING ALONG EGRESS PATHS AS INDICATED ON ARCHITECTURAL LIFE SAFETY PLANS. PROVIDE ALLOWANCE FOR EMERGENCY LIGHTING RELAY, ONE PER SWITCH LEG WITHIN ROOM SPACE AND/OR AREA WITH EMERGENCY LIGHTING.

C. EMERGENCY LUMINAIRES SWITCHED DIMMED WITH NORMAL LUMINAIRES IN SPACE AND SHALL OPERATE ON 100% FULL OUTPUT WHEN OPERATING ON EMERGENCY POWER. PROVIDE UL924 RELAY DEVICE FOR EMERGENCY CIRCUIT TO BYPASS CONTROLS DURING POWER OUTAGE.

D. REFER TO ARCHITECTURAL DRAWING FOR LUMINAIRE INFORMATION.

## SHEET KEYNOTES

1. PROVIDE TOUCH SCREEN SCENE CONTROLLER.




1 LEVEL 1 LIGHTING PLAN - OVERALL

1/8" = 1'-0"

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UPLA STUDIO

INTERFACE ENGINEERING

JENSEN HUGHES

| No. | Description | Date |
|---|---|---|
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | ISSUED FOR PERMIT | 20 DEC 2024 |
| | 60% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| | ISSUED FOR PERMIT | 28 MAR 2025 |

FIRST FLOOR PLAN - LIGHTING

E200

## GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

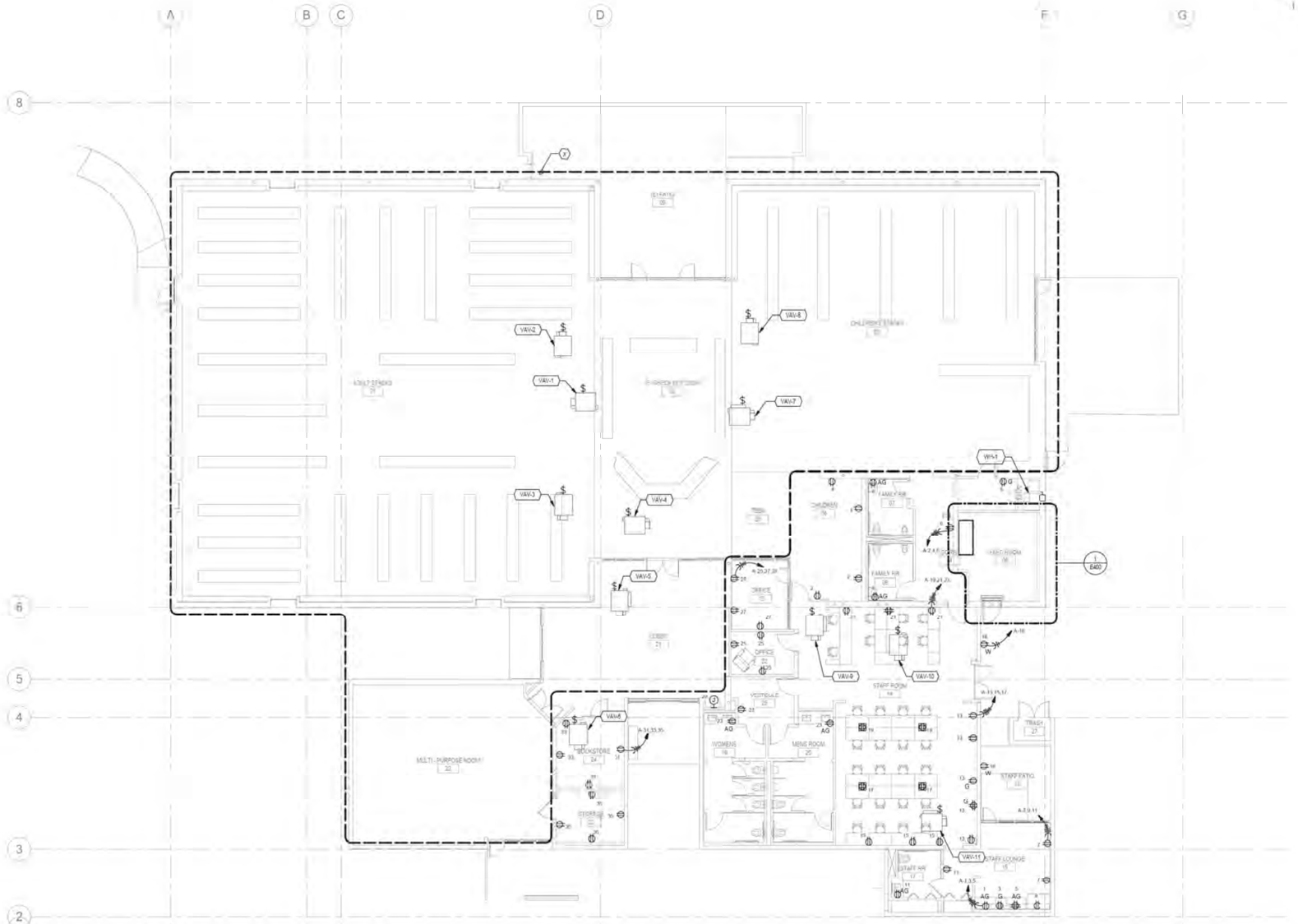
B. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH DIVISION 23 PRIOR TO INSTALLATION. PROVIDE BUDGET ALLOWANCE FOR MAINTENANCE RECEPTACLE WITHIN 25' OF EACH EQUIPMENT PER CEC ARTICLE 210.63.

C. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF PLUMBING EQUIPMENT WITH DIVISION 22 PRIOR TO INSTALLATION.

D. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET E601 FOR MECHANICAL AND PLUMBING EQUIPMENT CIRCUITING INFORMATION.

## SHEET KEYNOTES

1 PROVIDE NEW FACEPLATE FOR EXISTING RECEPTACLES. RECONNECT EXISTING RECEPTACLES TO NEW ELECTRICAL PANEL.




1 FIRST FLOOR PLAN - POWER

1/8" = 1'-0"

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INTERFACE ENGINEERING

JENSEN HUGHES

| No. | Description | Date |
|---|---|---|
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | ISSUED FOR PERMIT | 20 DEC 2024 |
| | 90% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| | ISSUED FOR PERMIT | 10 APR 2025 |

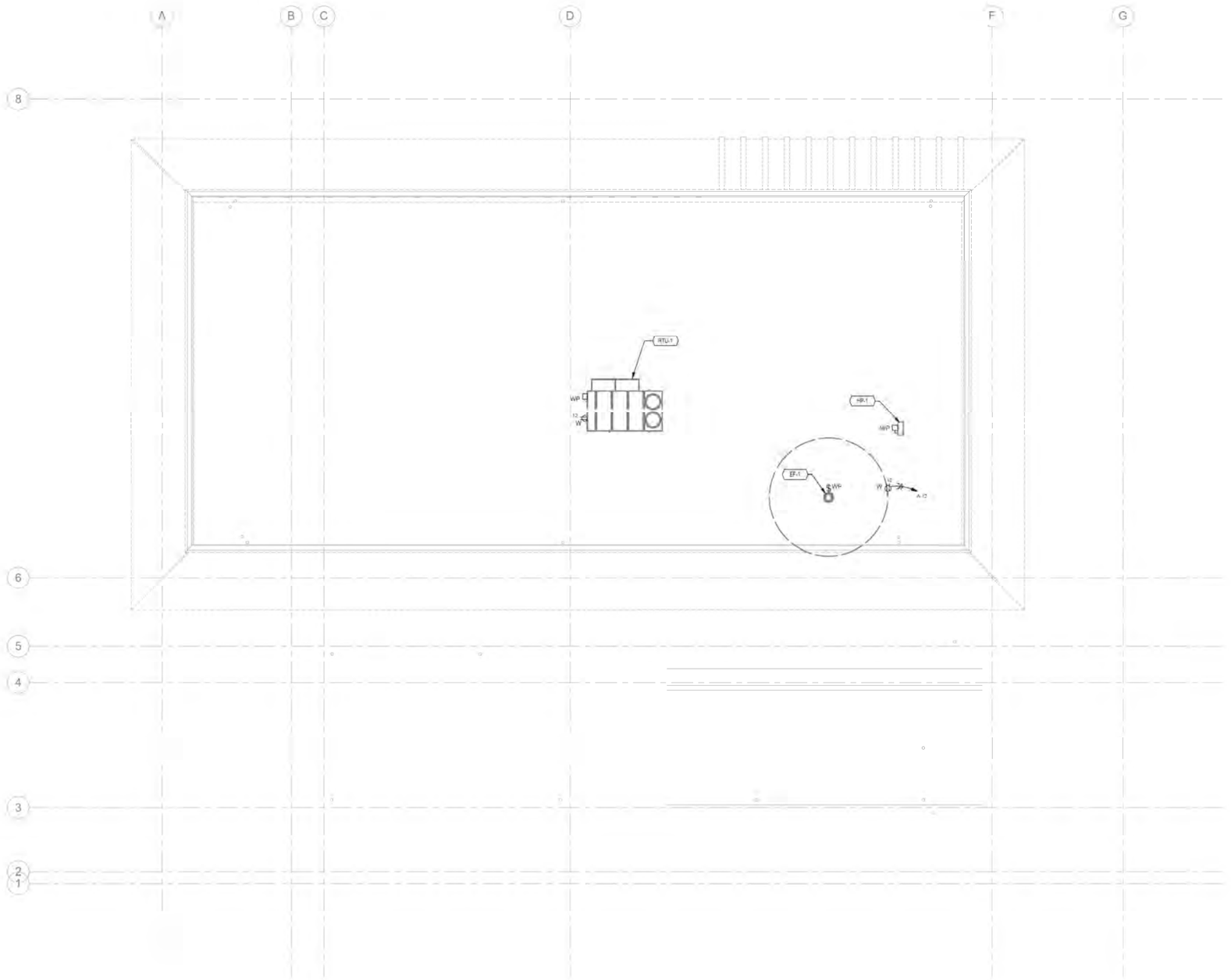
FIRST FLOOR PLAN - POWER

E300

## GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH DIVISION 23 PRIOR TO INSTALLATION. PROVIDE BUDGET ALLOWANCE FOR MAINTENANCE RECEPTACLE WITHIN 25' OF EACH EQUIPMENT PER CEC ARTICLE 210.63

B. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET E601 FOR MECHANICAL AND PLUMBING EQUIPMENT CIRCUITING INFORMATION




1 ROOF PLAN - POWER

1/8" = 1'-0"

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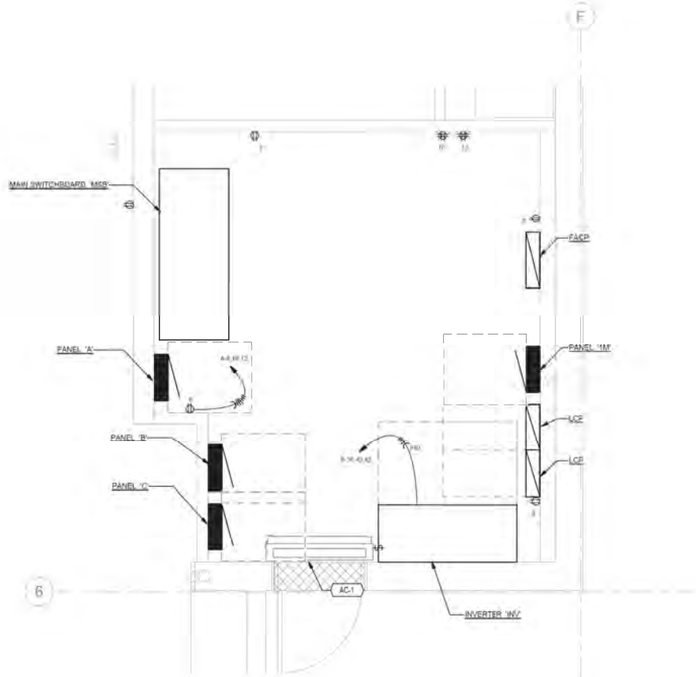
INTERFACE ENGINEERING

JENSEN HUGHES

| No. | Description | Date |
|---|---|---|
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | ISSUED FOR PERMIT | 20 DEC 2024 |
| | 60% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| | ISSUED FOR PERMIT | 29 MAR 2025 |

ROOF PLAN - POWER

E301




## 1 ENLARGED MAIN ELECTRICAL ROOM - POWER

1/2" = 1'-0"

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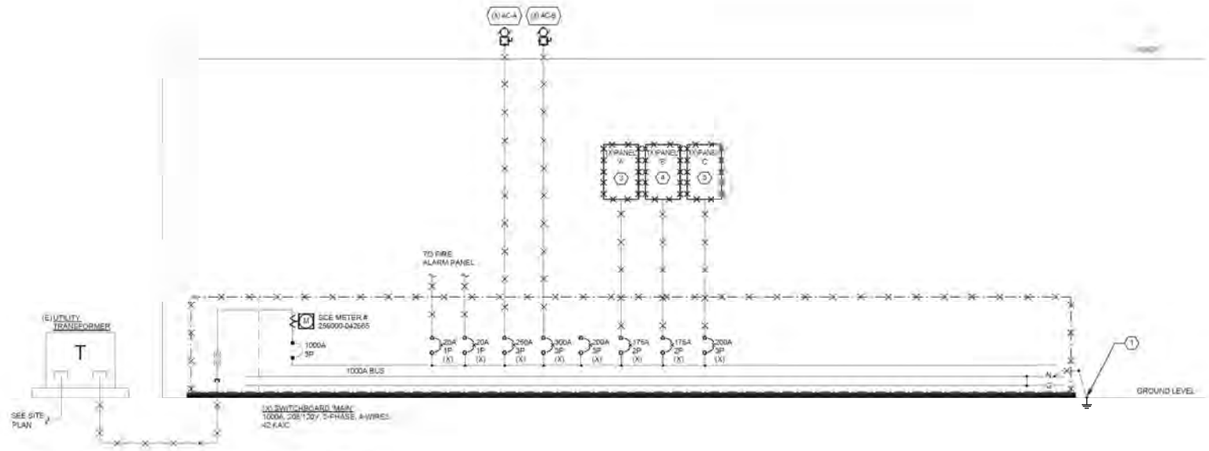
INTERFACE ENGINEERING

JENSEN HUGHES

| No. | Description | Date |
|---|---|---|
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | ISSUED FOR PERMIT | 20 DEC 2024 |
| | 60% CONSTRUCTION DOCUMENTS | 17 MAR 2026 |
| | ISSUED FOR PERMIT | 20 MAR 2026 |

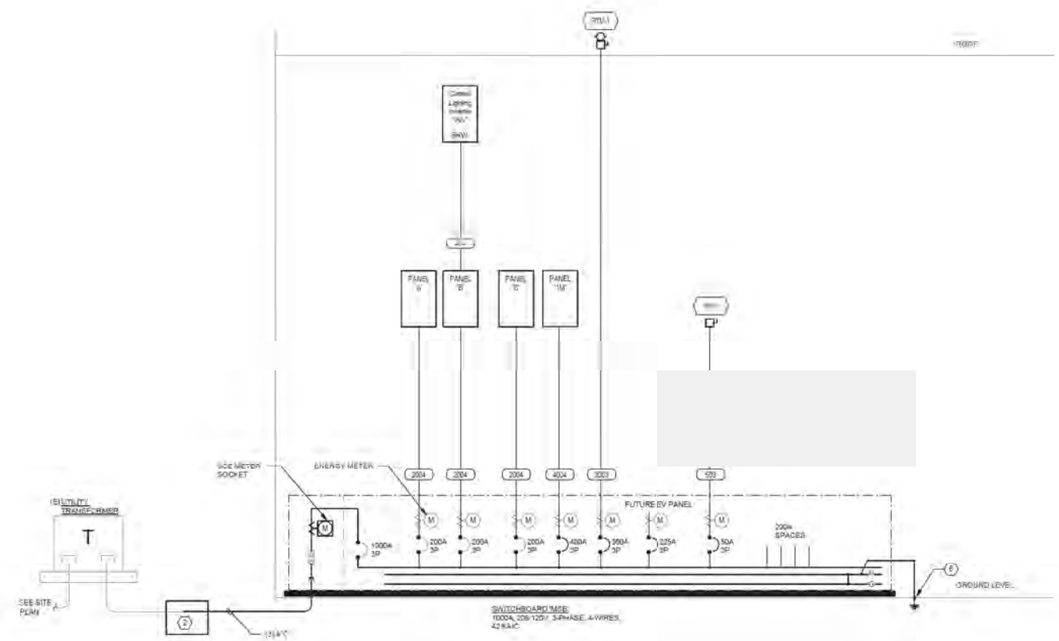
ENLARGED PLANS - ELECTRICAL

E400




## 1 ONE-LINE DIAGRAM - DEMOLITION

NO SCALE




## 2 ONE-LINE DIAGRAM - NEW

NO SCALE

## GENERAL SHEET NOTES

A. EXISTING FEEDER BREAKER CONNECTIONS ARE BASED ON LIMITED FIELD OBSERVATION. CONTRACTOR TO VERIFY ACTUAL FEEDER BREAKER CONNECTIONS.

B. ALL A/C RATINGS SHOWN ARE MINIMUM REQUIREMENTS. COORDINATE EXACT RATING BASED ON SHORT CIRCUIT STUDY RECOMMENDATIONS PER SSEC SECTION 26 05 73.

## DETAIL KEYNOTES

1. EXISTING SWITCHBOARD GROUNDING CONNECTION TO REMAIN.
2. INTERCEPT EXISTING SERVICE FEEDER WITH NEW 3"Ø PULLBOX AND EXTEND EXISTING FEEDER TO NEW SWITCHBOARD. MATCH EXISTING CONDUIT AND CONDUCTOR SIZE AND QUANTITIES.
3. INTERCEPT EXISTING BRANCH CIRCUITS ASSOCIATED WITH PANEL 'A' AND EXTEND ALL EXISTING BRANCH CIRCUITS TO NEW PANEL 'A'.
4. INTERCEPT EXISTING BRANCH CIRCUITS ASSOCIATED WITH PANEL 'B' AND EXTEND ALL EXISTING BRANCH CIRCUITS TO NEW PANEL 'A'.
5. INTERCEPT EXISTING BRANCH CIRCUITS ASSOCIATED WITH PANEL 'A' AND EXTEND ALL EXISTING BRANCH CIRCUITS TO NEW PANEL 'C'.
6. REUSED EXISTING SWITCHBOARD GROUNDING CONNECTION FOR NEW SWITCHBOARD.

## FEEDER SCHEDULE

A,C,S,X: A=Aluminum; C=Conduit only; S=Service secondary; X=Separately derived system

| | |
|---|---|
| 504 | 4 #1/0 CU, 1 #1/0 CU GND., IN 3/4" C. |
| 803 | 3 #6 CU, 1 #1/0 CU GND., IN 3/4" C. |
| 2004 | 4 #3/0 CU, 1 #6 CU GND., IN 2" C. |
| 3003 | 3 - 350 kcmil CU, 1 #4 CU GND., IN 2 1/2" C. |
| 4004 | 2 SETS OF (4 #3/0 CU, 1 #2 CU GND., IN 2" C.) |

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INTERFACE ENGINEERING

JENSEN HUGHES

| No. | Description | Date |
|---|---|---|
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
| | ISSUED FOR PERMIT | 20 DEC 2024 |
| | 60% CONSTRUCTION DOCUMENTS | 17 MAR 2025 |
| | ISSUED FOR PERMIT | 20 MAR 2025 |

SINGLE LINE DIAGRAMS - ELECTRICAL

E501

## Switchboard 'MSB'

2024-0166

| Load No. | Description / Location | Load (VA) | Load Type |
|---|---|---|---|
| 1 | Subs(A) | 4,860 | S |
| | | 3,686 | S |
| | | 8,726 | S |
| 2 | Panel 'B' | 3,000 | S |
| | | 3,000 | S |
| | | 6,000 | S |
| 3 | Panel 'C' | 8,000 | S |
| | | 8,000 | S |
| | | 16,000 | S |
| 4 | Subpl 'INV' | 26,971 | S |
| | | 26,911 | S |
| | | 53,882 | S |
| 5 | WH-1 | 4,033 | WH |
| | | 4,033 | WH |
| | | 8,066 | WH |
| 6 | RTU-1 | 29,267 | M |
| | | 29,267 | M |
| | | 58,534 | M |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |

| | | | |
|---|---|---|---|
| Total Connected Load: | Ph A | 71,131 VA | Amps |
| Total Connected Load: | Ph B | 71,971 VA | Amps |
| Total Connected Load: | Ph C | 71,616 VA | Amps |
| **Total Connected Load:** | | 214.6 KVA | Amps |
| **Total Demand Load:** | | 228.6 KVA | Amps |

NOTES:
1.
2.
3.
4.
5.

| Load Type | Load Description | Connected Load (VA) | Subject to Demand (VA) | Total Demand (VA) | Demand Factor | Demand Load |
|---|---|---|---|---|---|---|
| G | General (Non-Continuous) | 0.00 | 16.16 | 16.16 | 100% | 16.16 KVA |
| L | Lighting | 0.00 | 5.00 | 5.00 | 125% | 6.25 KVA |
| R | Receptacles - to 10 KVA | 0.00 | 20.00 | 10.00 | 100% | 10.00 KVA |
| | over 10 KVA | | 8.14 | 14.14 | 50% | 7.07 KVA |
| K | Kitchen (Non-Assembly) | 0.00 | 0.00 | 0.00 | 100% | 0.00 KVA |
| H | Heating | 0.00 | 14.58 | 14.58 | 100% | 14.58 KVA |
| M | Motors | 0.00 | 8.49 | 8.49 | 100% | 8.49 KVA |
| LM | Largest Motor | 73.50 | 0.00 | 14.99 | 125% | 18.73 KVA |
| WH | Water Heater | 12.10 | 8.00 | 11.15 | 125% | 13.94 KVA |
| C | Continuous General Load | 0.00 | 0.00 | 0.00 | 125% | 0.00 KVA |
| DL | General Lighting Demand Load (Tandina Unit) - to 3,000 VA | 0.00 | 0.00 | 0.00 | 100% | 0.00 KVA |
| | from 3,001 to 120,000 VA | | 0.00 | 0.00 | 35% | 0.00 KVA |
| | over 120,000 VA | | 0.00 | 0.00 | 25% | 0.00 KVA |
| V | General Lighting Demand Load (Hotels/Motels/Apartments and Model Lighting) - to 20,000 VA | | 0.00 | 0.00 | 50% | 0.00 KVA |
| | from 20,001 to 100,000 VA | | 0.00 | 0.00 | 40% | 0.00 KVA |
| | over 100,000 VA | | 0.00 | 0.00 | 30% | 0.00 KVA |
| Z | General Lighting Demand Load (Warehouse/Garages) - to 12.5 KVA | 0.00 | 0.00 | 0.00 | 100% | 0.00 KVA |
| | over 12.5 KVA | | 0.00 | 0.00 | 50% | 0.00 KVA |
| | | | | Total: | | 228.77 KVA |

## Panel 'A'

120/208V, 3 Ph., 4 W., 225A Bus with Main Lug Only Surface Mounted Panelboard

2024-0166

42KAIC

| Ckt. No. | Description / Location | Load (VA) | Type | C.B. A/Pole | Notes | Ph. | Notes | C.B. A/Pole | Load (VA) | Type | Description / Location | Ckt. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RECEP - STAFF LOUNGE | 360 | R | 20/1 | | A | | 20/1 | 360 | R | RECEP - CHILDREN | 2 |
| 3 | RECEP - STAFF LOUNGE | 180 | R | 20/1 | | B | | 20/1 | 360 | R | RECEP - CHILDREN | 4 |
| 5 | RECEP - STAFF LOUNGE | 360 | R | 20/1 | | C | | 20/1 | 720 | R | RECEP - FAMILY RR / JC | 6 |
| 7 | RECEP - STAFF LOUNGE | 360 | R | 20/1 | | A | | 20/1 | 720 | R | RECEP - ELEC | 8 |
| 9 | REFRIGERATOR - STAFF LOUNGE | 600 | R | 20/1 | | B | | 20/1 | 1,800 | D | RECEP - IT RACK | 10 |
| 11 | RECEP - STAFF RR | 360 | R | 20/1 | | C | | 20/1 | 1,800 | D | RECEP - IT RACK | 12 |
| 13 | RECEP - STAFF ROOM | 1,080 | R | 20/1 | | A | | 20/1 | 360 | R | RECEP - ROOF | 14 |
| 15 | RECEP - STAFF ROOM | 540 | R | 20/1 | | B | | 20/1 | 360 | R | RECEP - STAFF PATIO | 16 |
| 17 | RECEP - STAFF ROOM | 720 | R | 20/1 | | C | | 20/1 | | | SPARE | 18 |
| 19 | RECEP - STAFF ROOM | 720 | R | 20/1 | | A | | 20/1 | | | SPARE | 20 |
| 21 | RECEP - STAFF ROOM | 720 | R | 20/1 | | B | | 20/1 | | | SPARE | 22 |
| 23 | RECEP - MEN'S / WOMEN | 540 | R | 20/1 | | C | | 20/1 | | | SPARE | 24 |
| 25 | RECEP - OFFICE | 540 | R | 20/1 | | A | | 20/1 | | | SPARE | 26 |
| 27 | RECEP - OFFICE | 540 | R | 20/1 | | B | | 20/1 | | | SPARE | 28 |
| 29 | DRINKING FOUNTAIN | 1,500 | Q | 20/1 | | C | | 20/1 | | | SPARE | 30 |
| 31 | RECEP - BOOK STORE | 900 | R | 20/1 | | A | | 20/1 | | | SPARE | 32 |
| 33 | RECEP - BOOK STORE | 360 | R | 20/1 | | B | | 20/1 | | | SPARE | 34 |
| 35 | RECEP - STORAGE | 720 | R | 20/1 | | C | | 20/1 | | | SPARE | 36 |
| 37 | SPARE | | | 20/1 | | A | | 20/1 | | | SPARE | 38 |
| 39 | SPARE | | | 20/1 | | B | | 20/1 | | | SPARE | 40 |
| 41 | SPARE | | | 20/1 | | C | | 20/1 | | | SPARE | 42 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Total Connected Load: | Ph. A | 4,860 | VA | 40 | Amps | Panel Connected Load: 17.2 KVA 47.9 Amps |
| Total Connected Load: | Ph. B | 3,660 | VA | 47 | Amps | Sub-Fed Connected Load: 0.0 KVA 0.0 Amps |
| Total Connected Load: | Ph. C | 8,720 | VA | 56 | Amps | **Total Demand Load:** 19.2 **KVA** 44.9 Amps |

Notes:
1.
2.
3.
4.
5.

Accessories:

## Battery Inverter 'INV'

120/208V, 3 Ph., 4 W., 0 KVA

2024-0166

12KAIC

| Ckt. No. | Description / Location | Load (VA) | Type | C.B. A/Pole | Notes | Ph. |
|---|---|---|---|---|---|---|
| 1 | EM LTG - INTERIOR | | | 20/1 | | A |
| 2 | EM LTG - EXTERIOR | | | 20/1 | | B |
| 3 | EM LTG - EXTERIOR | | | 20/1 | | C |
| 4 | SPARE | | | 20/1 | | A |
| 5 | SPARE | | | 20/1 | | B |
| 6 | SPARE | | | 20/1 | | C |
| 7 | SPACE | | | | | A |
| 8 | SPACE | | | | | B |
| 9 | SPACE | | | | | C |
| 10 | SPACE | | | | | A |
| 11 | SPACE | | | | | B |
| 12 | SPACE | | | | | C |

| | | | | | | |
|---|---|---|---|---|---|---|
| Total Connected Load: | Ph. A | 0 | VA | 0 | Amps | Panel Connected Load: 0.0 KVA 0.0 Amps |
| Total Connected Load: | Ph. B | 0 | VA | 0 | Amps | Sub-Fed Connected Load: 0.0 KVA 0.0 Amps |
| Total Connected Load: | Ph. C | 0 | VA | 0 | Amps | **Total Demand Load:** 0.0 **KVA** 0.0 Amps |

Notes:
1.
2.
3.
4.
5.

Accessories:

## Panel 'B'

120/208V, 3 Ph., 4 W., 225A Bus with Main Lug Only Surface Mounted Panelboard

2024-0166

42KAIC

| Ckt. No. | Description / Location | Load (VA) | Type | C.B. A/Pole | Notes | Ph. | Notes | C.B. A/Pole | Load (VA) | Type | Description / Location | Ckt. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SPARE | | | 20/1 | | A | 2 | 20/1 | 1,000 | L | (E) FLOOD LIGHTS - FRONT OF BUILDING | 2 |
| 3 | SPARE | | | 20/1 | | B | 2 | 20/1 | 1,000 | L | (E) FLOOD LIGHTS - ROOF MOUNTED | 4 |
| 5 | SPARE | | | 20/1 | | C | 2 | 20/1 | 1,000 | L | (E) FLOOD LIGHTS - PARKING | 6 |
| 7 | SPARE | | | 20/1 | | A | 2 | 20/1 | 1,000 | L | (E) LIGHTS - REAR PARKING & SIGN | 8 |
| 9 | SPARE | | | 20/1 | | B | 2 | 20/1 | 1,000 | L | (E) LIGHTS - ENTRY TRELLISES | 10 |
| 11 | SPARE | | | 20/1 | | C | | 20/1 | | | SPARE | 12 |
| 13 | SPARE | | | 20/1 | | A | | 20/1 | | | SPARE | 14 |
| 15 | SPARE | | | 20/1 | | B | | 20/1 | | | SPARE | 16 |
| 17 | SPARE | | | 20/1 | | C | | 20/1 | | | SPARE | 18 |
| 19 | SPARE | | | 20/1 | | A | 1 | 20/1 | 1,000 | M | (E) HAND DRYER | 20 |
| 21 | SPARE | | | 20/1 | | B | 1 | 20/1 | 1,000 | M | (E) HAND DRYER | 22 |
| 23 | SPARE | | | 20/1 | | C | 1 | 20/1 | 1,000 | M | (E) ATTIC & ROOF EQUIPMENT | 24 |
| 25 | SPARE | | | 20/1 | | A | 1 | 20/1 | 1,000 | M | (E) HAND DRYER | 26 |
| 27 | SPARE | | | 20/1 | | B | | 20/1 | | | SPARE | 28 |
| 29 | SPARE | | | 20/1 | | C | | 20/1 | | | SPARE | 30 |
| 31 | SPARE | | | 20/1 | | A | | 20/1 | | | SPARE | 32 |
| 33 | SPARE | | | 20/1 | | B | | 20/1 | | | SPARE | 34 |
| 35 | SPARE | | | 20/1 | | C | | 20/1 | | | SPARE | 36 |
| 37 | SPARE | | | 20/1 | | A | | 30/2 | | G | Battery Inverter 'INV' | 38 |
| 39 | SPARE | | | 20/1 | | B | | -- | | G | -- | 40 |
| 41 | SPARE | | | 20/1 | | C | | -- | | G | -- | 42 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Total Connected Load: | Ph. A | 3,000 | VA | 25 | Amps | Panel Connected Load: 9.6 KVA 22.2 Amps |
| Total Connected Load: | Ph. B | 3,500 | VA | 29 | Amps | Sub-Fed Connected Load: 0.0 KVA 0.0 Amps |
| Total Connected Load: | Ph. C | 2,000 | VA | 17 | Amps | **Total Demand Load:** 9.6 **KVA** 22.2 Amps |

Notes:
1. RECONNECT EXISTING LOAD FROM EXISTING PANEL A
2. RECONNECT EXISTING LOAD FROM EXISTING PANEL B
3.
4.
5.

Accessories:

## Panel 'C'

120/208V, 3 Ph., 4 W., 225A Bus with Main Lug Only Surface Mounted Panelboard

2024-0166

42KAIC

| Ckt. No. | Description / Location | Load (VA) | Type | C.B. A/Pole | Notes | Ph. | Notes | C.B. A/Pole | Load (VA) | Type | Description / Location | Ckt. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | (E) RECEP - ADULT READING | 1,080 | R | 20/1 | 1 | A | 1 | 20/1 | 1,000 | R | (E) RECEP MULTI-PURPOSE | 2 |
| 3 | (E) RECEP - CHARGING DESK | 1,000 | R | 20/1 | 1 | B | 1 | 20/1 | 1,000 | R | (E) RECEP MULTI-PURPOSE | 4 |
| 5 | (E) RECEP - ADULT READING | 1,080 | R | 20/1 | 1 | C | | 20/1 | | | SPARE | 6 |
| 7 | (E) RECEP - LOUNGE & CHILD READ | 1,000 | R | 20/1 | 1 | A | 1 | 20/1 | 1,200 | R | (E) PRINTER + TYPING | 8 |
| 9 | (E) RECEP - ADULT READING | 1,000 | R | 20/1 | 1 | B | | 20/1 | | | SPARE | 10 |
| 11 | (E) RECEP - CHILD READ | 1,000 | R | 20/1 | 1 | C | 1 | 20/1 | 7,000 | M | (E) FAN 'C' | 12 |
| 13 | (E) RECEP - ADULT READING | 1,000 | R | 20/1 | 1 | A | 1 | 20/1 | 1,000 | M | (E) FAN 'D' | 14 |
| 15 | (E) RECEP - STORY | 1,080 | R | 20/1 | 1 | B | 1 | 20/1 | 3,000 | M | (E) FAN 'B' | 16 |
| 17 | (E) RECEP - TYPING | 1,500 | R | 20/1 | 1 | C | 1 | 20/1 | 1,000 | G | (E) SPRINKLER CONTROL | 18 |
| 19 | SPARE | | | 20/1 | | A | 1 | 20/1 | 1,000 | M | (E) FAN 'E' | 20 |
| 21 | SPARE | | | 20/1 | | B | | 20/1 | | | SPARE | 22 |
| 23 | SPARE | | | 20/1 | | C | 1 | 20/1 | 1,000 | G | (E) WATER HEATER | 24 |
| 25 | SPARE | | | 20/1 | | A | | 20/1 | | | SPARE | 26 |
| 27 | SPARE | | | 20/1 | | B | 1 | 20/1 | 1,000 | G | (E) WATER HEATER | 28 |
| 29 | SPARE | | | 20/1 | | C | 1 | 20/1 | 1,000 | G | (E) WATER COOLER | 30 |
| 31 | SPARE | | | 20/1 | | A | | 20/1 | | | SPARE | 32 |
| 33 | (E) RECEP ENTRY | 1,000 | R | 20/1 | 1 | B | | 20/1 | | | SPARE | 34 |
| 35 | SPARE | | | 20/1 | | C | | 20/1 | | | SPARE | 36 |
| 37 | (E) RECEP MULTI-PURPOSE | 1,000 | R | 20/1 | 1 | A | | 20/1 | | | SPARE | 38 |
| 39 | (E) RECEP MULTI-PURPOSE | 1,000 | R | 20/1 | 1 | B | | 20/1 | | | SPARE | 40 |
| 41 | (E) RECEP MULTI-PURPOSE | 1,000 | R | 20/1 | 1 | C | | 20/1 | | | SPARE | 42 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Total Connected Load: | Ph. A | 8,080 | VA | 67 | Amps | Panel Connected Load: 24.0 KVA 66.6 Amps |
| Total Connected Load: | Ph. B | 8,000 | VA | 67 | Amps | Sub-Fed Connected Load: 0.0 KVA 0.0 Amps |
| Total Connected Load: | Ph. C | 8,000 | VA | 67 | Amps | **Total Demand Load:** 21.3 **KVA** 59.0 Amps |

Notes:
1. RECONNECT EXISTING LOAD FROM EXISTING PANEL C
2.
3.
4.
5.

Accessories:

## Panel '1M'

120/208V, 3 Ph., 4 W., 400A Bus with Main Lug Only Surface Mounted Panelboard

2024-0166

| Ckt. No. | Description / Location | Load (VA) | Type | C.B. A/Pole | Notes | Ph. | Notes | C.B. A/Pole | Load (VA) | Type | Description / Location | Ckt. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HP-1 | 915 | M | 25/2 | | A | | 15/1 | 180 | M | CP-1 | 2 |
| 3 | - | 915 | M | - | | B | | | | | SPACE | 4 |
| 5 | EF-1 | 600 | M | 15/1 | | C | | | | | SPACE | 6 |
| 7 | VAV-1 | 2,666 | H | 35/2 | | A | | 25/3 | 2,000 | H | VAV-7 | 8 |
| 9 | - | 2,666 | H | - | | B | | - | 2,000 | H | - | 10 |
| 11 | - | 2,666 | H | - | | C | | - | 2,000 | H | - | 12 |
| 13 | VAV-2 | 3,466 | H | 45/3 | | A | | 35/3 | 3,000 | H | VAV-8 | 14 |
| 15 | - | 3,466 | H | - | | B | | - | 3,000 | H | - | 16 |
| 17 | - | 3,466 | H | - | | C | | - | 3,000 | H | - | 18 |
| 19 | VAV-3 | 2,466 | H | 35/1 | | A | | 15/2 | 833 | H | VAV-9 | 20 |
| 21 | - | 2,666 | H | - | | B | | - | 833 | H | - | 22 |
| 23 | - | 2,666 | H | - | | C | | - | 833 | H | - | 24 |
| 25 | VAV-4 | 1,333 | H | 20/2 | | A | | 30/3 | 2,666 | H | VAV10 | 26 |
| 27 | - | 1,333 | H | - | | B | | - | 2,666 | H | - | 28 |
| 29 | - | 1,333 | H | - | | C | | - | 2,666 | H | - | 30 |
| 31 | VAV-5 | 1,333 | H | 20/2 | | A | | 15/2 | 833 | H | VAV-11 | 32 |
| 33 | - | 1,333 | H | - | | B | | - | 833 | H | - | 34 |
| 35 | - | 1,333 | H | - | | C | | - | 833 | H | - | 36 |
| 37 | VAV-6 | 4,000 | H | 50/3 | | A | | | | | SPACE | 38 |
| 39 | - | 4,000 | H | - | | B | | | | | SPACE | 40 |
| 41 | - | 4,000 | H | - | | C | | | | | SPACE | 42 |
| 43 | SPACE | | | | | A | | | | | SPACE | 44 |
| 45 | SPACE | | | | | B | | | | | SPACE | 46 |
| 47 | SPACE | | | | | C | | | | | SPACE | 48 |
| 49 | SPACE | | | | | A | | | | | SPACE | 50 |
| 51 | SPACE | | | | | B | | | | | SPACE | 52 |
| 53 | SPACE | | | | | C | | | | | SPACE | 54 |
| 55 | SPACE | | | | | A | | | | | SPACE | 56 |
| 57 | SPACE | | | | | B | | | | | SPACE | 58 |
| 59 | SPACE | | | | | C | | | | | SPACE | 60 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Total Connected Load: | Ph. A | 25,974 | VA | 216 | Amps | Panel Connected Load: 77.5 KVA 215.1 Amps |
| Total Connected Load: | Ph. B | 26,911 | VA | 316 | Amps | Sub-Fed Connected Load: 0.0 KVA 0.0 Amps |
| Total Connected Load: | Ph. C | 25,666 | VA | 312 | Amps | **Total Demand Load:** 77.5 **KVA** 216.3 Amps |

Notes:
1.
2.
3.
4.
5.

Accessories:

## MECHANICAL EQUIPMENT CONNECTION SCHEDULE

| ITEM | DESCRIPTION | LOCATION | VOLTS / PHASE | LOAD | MCA | MOCP | WIRE / CONDUIT | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| RTU-1 | ROOF PACKAGE AC UNIT | ROOF | 208/3 | | 293 | 350 | | MSB | 1 |
| AC-1 | AIR CONDITIONING UNIT | ELEC. RM | 208/1 | 0.2 A | | 15 | 202 | | 2 |
| HP-1 | HEAT PUMP | ROOF | 208/1 | | 11 | 25 | 302 | 1M-1,3 | |
| VAV-1 | VAV BOX | | 208/3 | 8.0 KW | | 35 | 403 | 1M-7,9,11 | |
| VAV-2 | VAV BOX | | 208/3 | 11.0 KW | | 45 | 503 | 1M-13,15,17 | |
| VAV-3 | VAV BOX | | 208/3 | 8.0 KW | | 35 | 403 | 1M-19,21,23 | |
| VAV-4 | VAV BOX | | 208/3 | 4.0 KW | | 20 | 203 | 1M-25,27,29 | |
| VAV-5 | VAV BOX | | 208/3 | 4.0 KW | | 20 | 203 | 1M-31,33,35 | |
| VAV-6 | VAV BOX | | 208/3 | 12.0 KW | | 50 | 503 | 1M-37,39,41 | |
| VAV-7 | VAV BOX | | 208/3 | 8.0 KW | | 25 | 303 | 1M-8,10,12 | |
| VAV-8 | VAV BOX | | 208/3 | 8.0 KW | | 35 | 403 | 1M-14,16,18 | |
| VAV-9 | VAV BOX | | 208/3 | 2.5 KW | | 15 | 203 | 1M-20,22,24 | |
| VAV-10 | VAV BOX | | 208/3 | 8.0 KW | | 35 | 403 | 1M-26,28,30 | |
| VAV-11 | VAV BOX | | 208/3 | 2.5 KW | | 15 | 203 | 1M-32,34,36 | |
| EF-1 | EXHAUST FAN | | 120/1 | 0.2 HP | | 15 | 202 | 1M-5 | |
| WH-1 | WATER HEATER | | 208/3 | 12.1 KW | | 50 | 503 | MSB | 1 |
| CP-1 | CIRCULATION PUMP | | 120/1 | 0.5 A | | 15 | 202 | 1M-2 | |

**GENERAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES**

A THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.

B MOCP = MAXIMUM OVER CURRENT PROTECTION
MCA = MINIMUM CIRCUIT AMPACITY

C PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

**MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES**

1 SEE ONE LINE POWER DIAGRAM FOR FEEDER SIZE CIRCUITING.
2 POWERED FROM OUTDOOR UNIT.

**WIRE / CONDUIT SCHEDULE**

202 2 #12 CU., 1 #12 CU GND., IN 3/4" C.
203 3 #12 CU., 1 #12 CU GND., IN 3/4" C.
302 2 #10 CU., 1 #10 CU GND., IN 3/4" C.
303 3 #10 CU., 1 #10 CU GND., IN 3/4" C.
403 3 #6 CU., 1 #10 CU GND., IN 3/4" C.
503 3 #6 CU., 1 #10 CU GND., IN 3/4" C.

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Sheet Name:
SCHEDULES - ELECTRICAL

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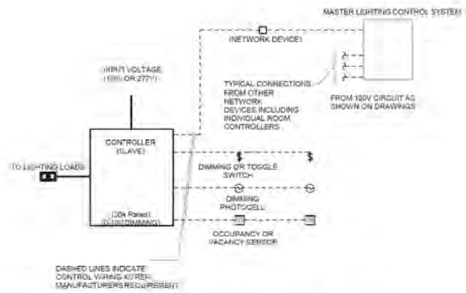


**1 TITLE 24 LIGHTING CONTROL DETAIL**

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DETAILS - ELECTRICAL

E700

# TECHNOLOGY SYMBOL LIST

(NOTE: This is a standard symbol list and not all items listed may be used.)

## Abbreviations

| | |
|---|---|
| (E) | EXISTING |
| AFF | ABOVE FINISHED FLOOR |
| ANMW | GEL-FILLED UNDERGROUND CABLE |
| C | CONDUIT |
| CAT | CATEGORY |
| CFCI | CONTRACTOR FURNISHED CONTRACTOR INSTALLED |
| CFOI | CONTRACTOR FURNISHED OWNER INSTALLED |
| COAX | COAXIAL |
| EA | EACH |
| FDU | FIBER OPTIC DISTRIBUTION UNIT |
| FT | FOOT, FEET |
| HH | HANDHOLE |
| IDF | INTERMEDIATE DISTRIBUTION FRAME |
| IN | IN./IN. INCHES |
| IT | INFORMATION TECHNOLOGY |
| LAN | LOCAL AREA NETWORK |
| LC | FIBER OPTIC CONNECTOR |
| LV | LOW VOLTAGE |
| MDF | MAIN DISTRIBUTION FRAME |
| MISC | MISCELLANEOUS |
| N/A | NOT APPLICABLE |
| NTS | NOT TO SCALE |
| OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED |
| OFOI | OWNER FURNISHED, OWNER INSTALLED |
| OSP | OUTSIDE PLANT |
| PBX | PRIVATE BRANCH EXCHANGE |
| POE | POWER OVER ETHERNET |
| PTZ | PAN, TILT, ZOOM |
| QTY | QUANTITY |
| RFI | REQUEST FOR INFORMATION |
| RM | ROOM |
| SC | FIBER OPTIC CONNECTOR |
| TBB | TELECOMMUNICATIONS BONDING BACKBONE |
| TGB | TELECOMMUNICATIONS GROUNDING BUS BAR |
| TTB | TELEPHONE TERMINAL BOARD |
| TYP | TYPICAL |
| UON | UNLESS OTHERWISE NOTED |
| W/ | WITH |
| W/O | WITHOUT |
| WAN | WIDE AREA NETWORK |
| WAO | WORK AREA OUTLET |
| WAP | WIRELESS ACCESS POINT |
| WI-FI | WIRELESS FIDELITY |
| WP | WEATHERPROOF |

## Telecommunications

- 1-1/4" RACEWAY WITH SINGLE-GANG ADAPTER PLATE AND 4/4 CABLING.
- TELEPHONE OUTLET WITH (1) CAT6 CABLE TO NEAREST MDF/IDF AND 3/4" C TO ACCESSIBLE CEILING SPACE.
- STANDARD COMMUNICATIONS OUTLET WITH (3) CAT6 CABLE(S) TO NEAREST MDF/IDF AND 1"C TO ACCESSIBLE CEILING SPACE.
- ALTERNATE COMMUNICATIONS OUTLET (X):
  - A= ABOVE COUNTER WITH (3) CAT6 CABLE(S) TO NEAREST MDF/IDF AND 1"C TO ACCESSIBLE CEILING SPACE.
  - C= SINGLE GANG BOX, FLUSH IN CEILING, MOUNTED TO TILE BRIGE WITH (2) CAT6 CABLE(S) TO NEAREST MDF/IDF.
- FLUSH FLOOR COMBINATION COMMUNICATIONS OUTLET WITH (4) U.L. LISTED, GEL-FILLED CAT6 CABLE(S) TO AND 1" UNDER SLAB CONDUIT TO NEAREST MDF/IDF, UON.
- OUTLET WITH 1" C FLEX CONNECTION TO FURNITURE SYSTEM OR CASEWORK. "X" DENOTES QUANTITY OF CAT6 CABLES.
- POKE-THRU COMBINATION TELE/DATA OUTLET, WITH (3) CAT6 CABLE(S) TO NEAREST MDF/IDF, UON.
- LOCATION FOR FLUSH MOUNT WIRELESS ACCESS POINT OUTLET WITH (1) CAT6 CABLE TO NEAREST MDF/IDF AND 1"C ACCESSIBLE CEILING SPACE, UON.

## Electronic Security

- CEILING MOUNTED GLASS BREAK SENSOR
- CEILING MOUNTED MOTION DETECTION SENSOR
- DOOR POSITION SWITCH/CONTACT
- ELECTRIC LATCH CONNECTION
- ELECTRIC STRIKE DOOR LOCKS
- HANDICAP ACCESS BUTTON
- MAGNETIC DOOR LOCKS
- PANIC BUTTON LOCATION, INSTALL AT +42"
- REQUEST TO EXIT DEVICE
- WALL MOUNTED ACCESS CONTROL CARD READER
- WALL MOUNTED KEYPAD
- WALL MOUNTED MOTION DETECTION SENSOR

## Equipment

- 2-POST EQUIPMENT RACK
- 4-POST EQUIPMENT RACK
- DOUBLE-SIDED VERTICAL WIRE MANAGEMENT
- MAJOR EQUIPMENT, CABINETS OR PANELS
- SINGLE-SIDED VERTICAL WIRE MANAGEMENT

## Raceways

- CABLE RUNWAY, WIDTH AS INDICATED
- WIRE BASKET TYPE CABLE TRAY, WIDTH AS INDICATED
- CONDUIT AND CONDUCTORS ABOVE GRADE
- CONDUIT AND CONDUCTORS BELOW GRADE OR SLAB
- CONDUIT DOWN
- CONDUIT SLEEVE
- CONDUIT UP
- CONDUIT/WIRING CONTINUATION
- FLEXIBLE CONDUIT
- GROUNDING POINT
- HANDHOLE (HH)
- PULL BOX (PB)
- SURFACE RACEWAY
- TELECOMMUNICATIONS VAULT (VT)
- TELEPHONE BACKBOARD
- TELEPHONE UTILITY POLE
- TELEPHONE/DATA POWER POLE

## Reference Symbols

- DETAIL NUMBER AND SHEET LOCATION
- KEYED NOTES
- SECTION NUMBER AND SHEET LOCATION

## GENERAL TECHNOLOGY NOTES:

A. COMMUNICATIONS RACEWAYS, TRAYS, AND OUTLETS ARE SHOWN DIAGRAMMATICALLY. LOCATIONS ARE APPROXIMATE UNLESS SPECIFICALLY DIMENSIONED. FIELD COORDINATE ALL WORK WITH OTHER TRADES.

B. CONSTRUCTION DETAILS SHOW TYPICAL INSTALLATION, UON, AND APPLY TO ALL COMMUNICATIONS WORK INCLUDED IN THE SUMMARY OF WORK FOR THIS PACKAGE EVEN THOUGH NOT SPECIFICALLY REFERENCED ON THE PLAN DRAWINGS.

C. THE TECHNOLOGY DRAWINGS ARE PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF DRAWINGS LISTED BY THE "INDEX OF DRAWINGS." PARTIAL SETS OF DRAWINGS MAY INCLUDING OF ALL DISCIPLINES ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED.

D. INSTALL PULL STRINGS IN ALL CONDUITS AT THE TIME OF CONDUIT AND CABLE INSTALLATION.

E. COORDINATE ALL DOOR ACCESS CONTROL FUNCTIONS WITH ADA DOOR ACTUATOR FUNCTION SUCH THAT DOOR MOTOR WILL NOT OPERATE WITHOUT PRIOR VALID CARD READ DURING SECURE MODE OPERATION.

## SHEET INDEX



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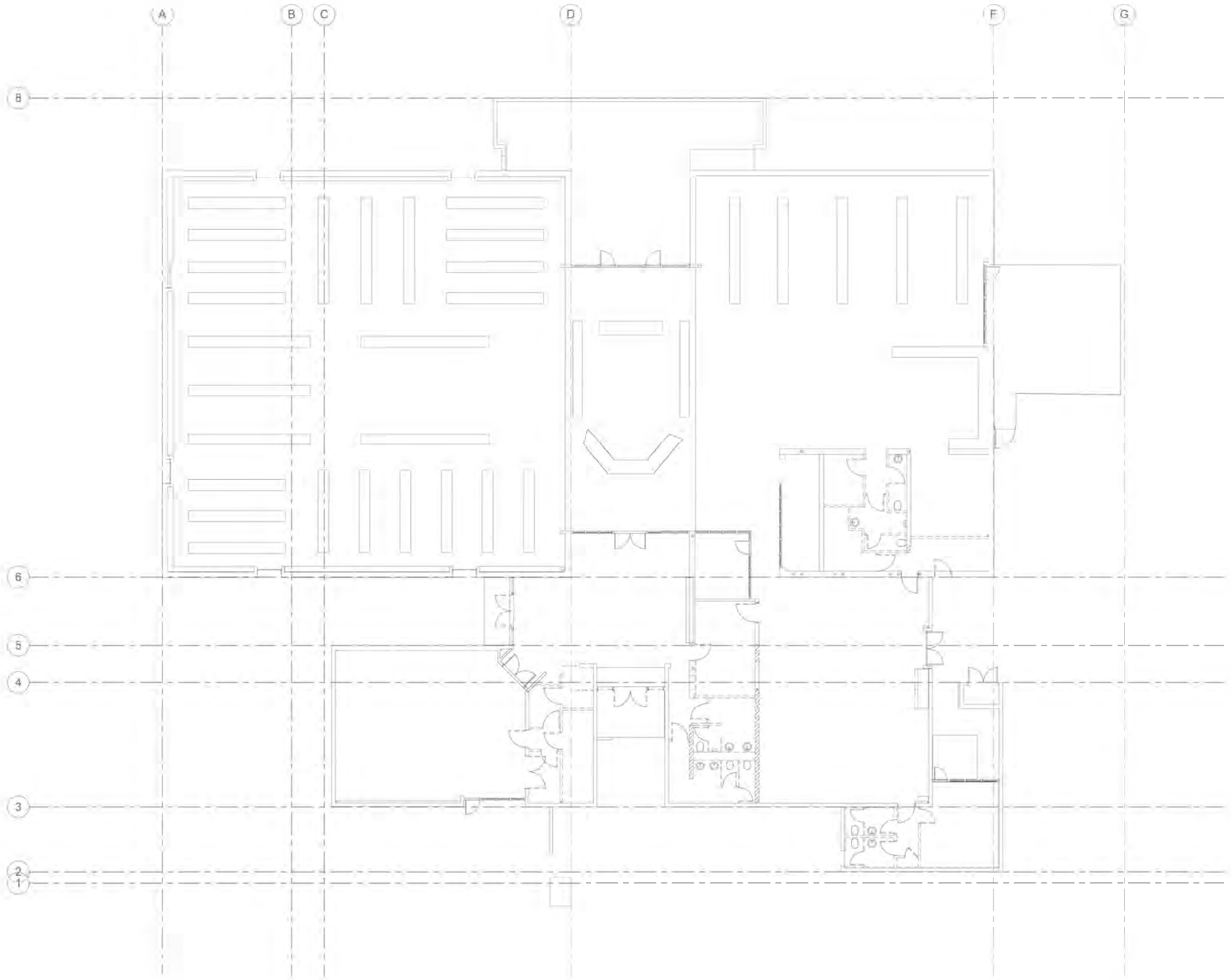
Sheet Name:
SYMBOL LIST AND GENERAL NOTES - TECHNOLOGY

Project No.: 24151
Drawn By: AS/RJ
Checked By: TS/MH

Sheet No.:
T001




1 FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY

1/8" = 1'-0"

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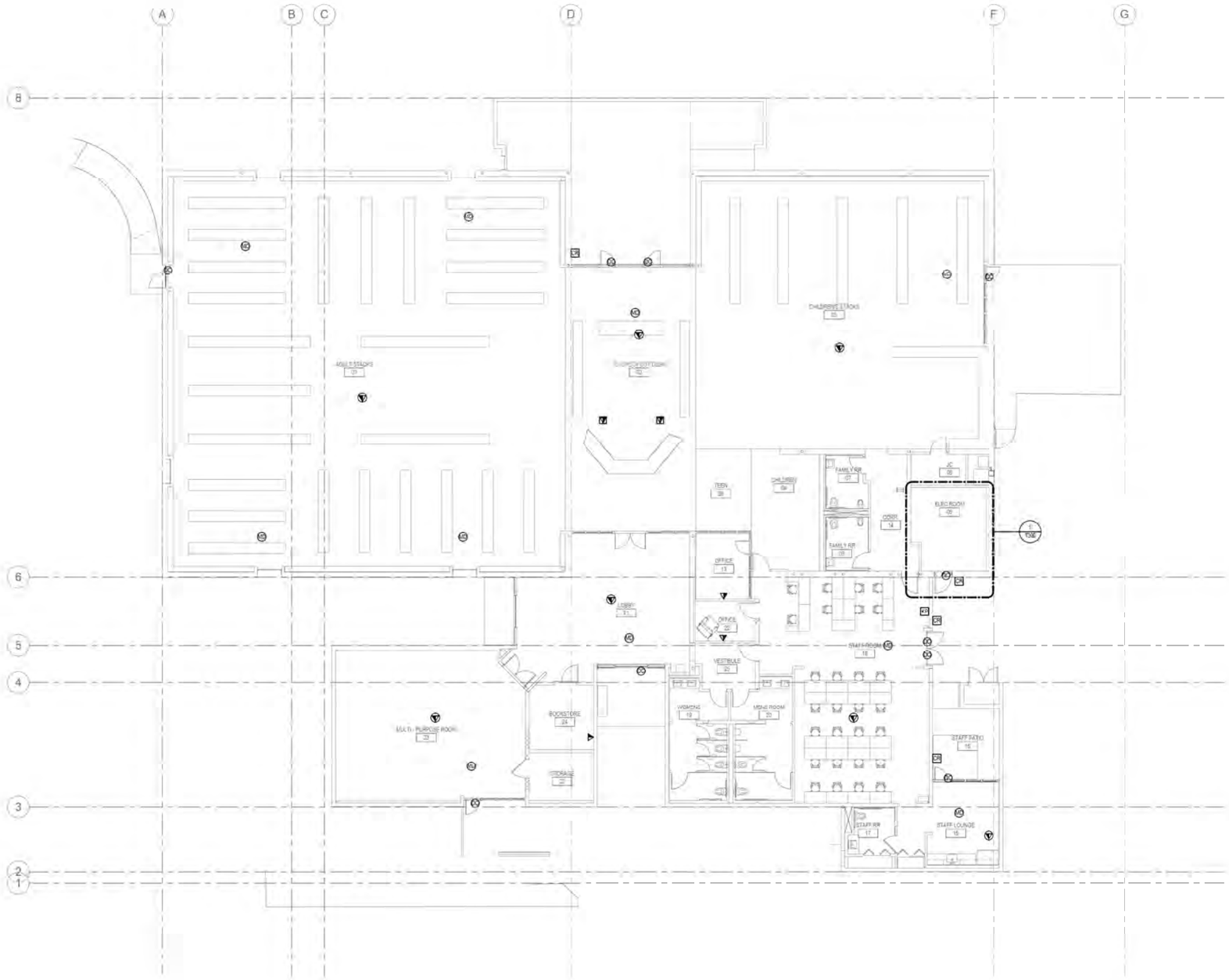


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FIRST FLOOR PLAN - TECHNOLOGY

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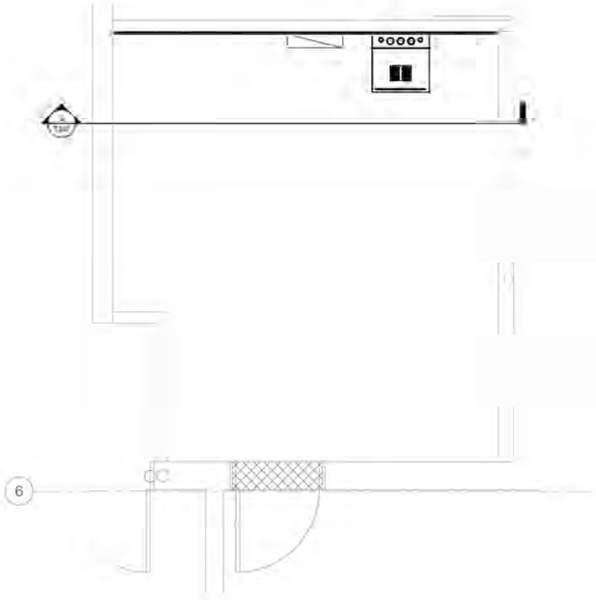
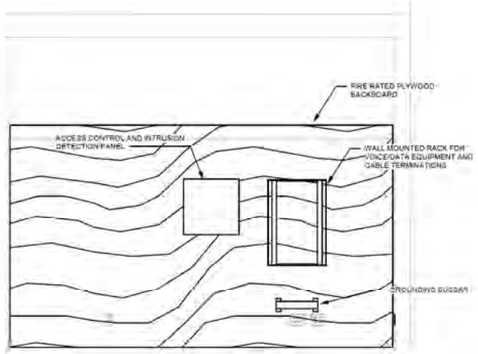


1 ENLARGED ELEC ROOM




2 WALL ELEVATION - ELEC ROOM

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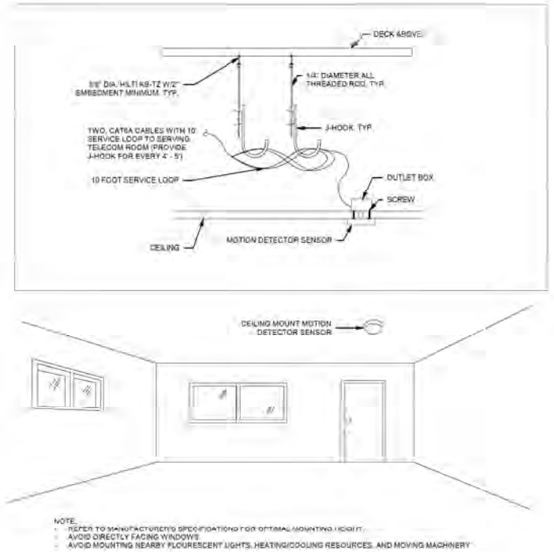
ENLARGED PLANS AND SECTIONS - TECHNOLOGY

T300




## 1 CEILING MOUNT MOTION DETECTOR SENSOR DETAIL

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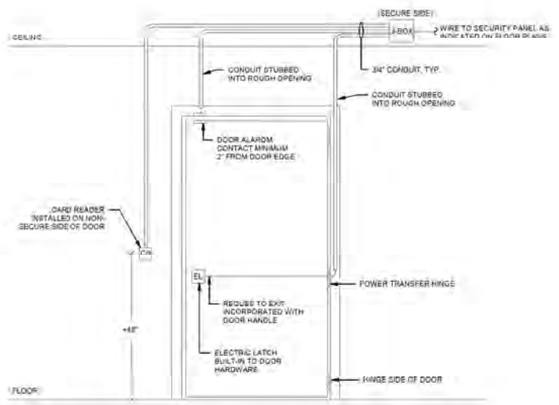


## 2 SINGLE DOOR CARD READER DETAIL

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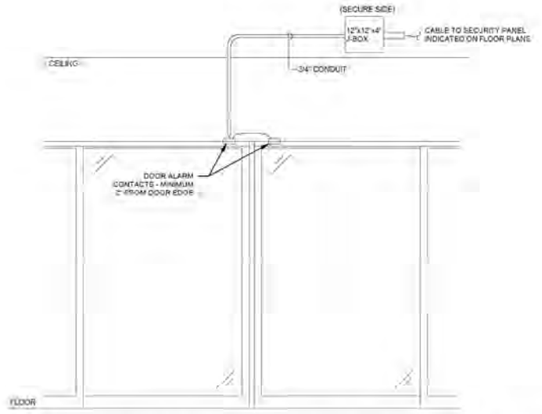


## 3 DOUBLE SLIDING DOOR WITH DOOR CONTACT DETAIL

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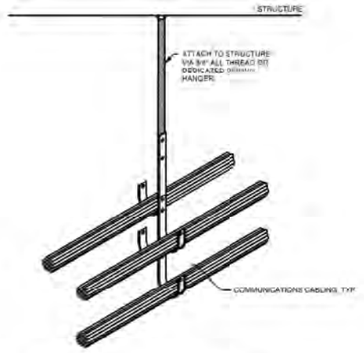


## 4 J-HOOK INSTALLATION

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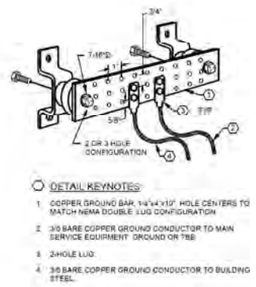
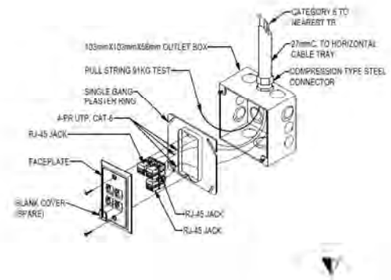



## 5 GROUNDING BAR DETAIL

NO SCALE




## 6 TYPICAL WORKSTATION OUTLET DETAIL

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DETAILS - TECHNOLOGY

T500

# CITY OF GOLETA PUBLIC LIBRARY
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## 500 NORTH FAIRVIEW AVENUE
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### GENERAL NOTES

1. THE EXISTING INTRUSION ALARM SYSTEM IS OPERATIONAL AND ON-LINE. NOTIFY THE BUILDING OWNER PRIOR TO COMMENCING ANY WORK.
2. PRIMARY POWER SUPPLY SHALL BE PROVIDED BY A DEDICATED, UN-SWITCHED BRANCH CIRCUIT RATED AT NO LESS THAN 20 AMPS, AND PROVIDING 120VAC NOMINAL TO THE INTEGRATED SYSTEMS. CIRCUITS AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "SECURITY SYSTEM CIRCUIT".
3. SECONDARY POWER SUPPLY TO BE PROVIDED BY INTEGRAL BATTERIES SIZED AS INDICATED.
4. THE SECURITY CONTROL PANEL SHALL POWER ALL MOTION DETECTORS AND KEYPADS.
5. ALL CONDUCTORS SHALL BE SOLID COPPER AND MINIMUM 22 AWG.
6. MOTION DETECTORS SHALL BE WALL MOUNTED WITH AN APPROVED MOUNTING BRACKET AT A MINIMUM ELEVATION OF 8'-FEET ABOVE THE FINISHED FLOOR.
7. FINAL LOCATION OF MOTION SENSORS SHALL BE BASED ON FINISH CONDITIONS OF THE BUILDING INTERIOR AND IN COORDINATION WITH THE BUILDING OWNER.
8. MOTION DETECTORS SHALL BE INSTALLED USING TAMPER-PROOF SCREWS.
9. ALL WIRING MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
10. 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING (INTEGRATED SYSTEMS CIRCUITS).
11. ALL WIRING SHALL BE PROTECTED FROM PHYSICAL DAMAGE AND SHALL BE INSTALLED WITHIN WALLS OR CONDUIT AS NECESSARY.
12. UNDERGROUND AND EXTERIOR CONDUITS SHALL BE PROVIDED WITH WATER-TIGHT FITTINGS.
13. SPLICES SHALL BE KEPT AT A MINIMUM. SPLICES SHALL BE MADE IN TERMINAL CABINETS AND JUNCTION BOXES. SPLICES SHALL BE MADE USING TERMINAL STRIPS.
14. THE CONTROL PANELS, POWER SUPPLIES (EXCLUDING THE DOOR LOCK POWER SUPPLY), WIRING AND INSTALLATION, DEVICES AND AND DEVICE TERMINATIONS, CONDUIT, PHYSICAL MOUNTING, ETC., SHALL BE PROVIDED BY THE INSTALLING CONTRACTOR.
15. THE WIRING LAYOUT INDICATED ON THESE DRAWINGS IS DIAGRAMMATIC. CHANGES TO THE WIRING AS SHOWN SHALL BE AND RECORDED ON AS-BUILT DRAWINGS.
16. ALL DEVICE LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ALL CHANGES SHALL BE NOTED ON THE PROJECT AS-BUILT DRAWINGS AND MAINTAINED ON SITE UNTIL FINAL ACCEPTANCE.
17. THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE OWNER AND OWNER'S REPRESENTATIVE PRIOR TO SYSTEM TESTING.
18. SPECIAL COORDINATION IS REQUIRED WITH OWNER REGARDING PROGRAMMING REQUIREMENTS AND SEQUENCE OF OPERATION. CONTRACTOR SHALL MEET WITH OWNER REPRESENTATIVES AND SUBMIT PROPOSED LABELS FOR ALL DEVICES AND FUNCTIONS FOR OWNER REVIEW AND COMMENT.
19. CONTRACTOR SHALL PROVIDE FIRESTOPPING AS REQUIRED FOR ALL WALL PENETRATIONS.

### INTRUSION ALARM AREAS

THE INTRUSION ALARM SYSTEM SHALL BE PROGRAMMED TO PROVIDE THE FOLLOWING ARM/DISARM AREAS:

AREA #1: LIBRARY INTERIOR.
AREA #2: LIBRARY BOOKSTORE.

### SCOPE OF WORK

THE SCOPE OF WORK FOR THIS PROJECT IS TO PROVIDE A NEW INTEGRATED SECURITY SYSTEM (SYSTEM) FOR AN EXISTING PUBLIC LIBRARY. THE SYSTEM SHALL PROVIDE ACCESS CONTROL CAPABILITY AT SELECT DOORS, VIDEO SURVEILLANCE AT INTERIOR COMMON AREAS AND EXTERIOR BUILDING ENTRANCES, AND INTRUSION ALARM CAPABILITY FOR INTERIOR AREAS.

THE ACCESS CONTROL SYSTEM SHALL USE MULTI-FUNCTION CARD READERS WITH SUPPORT FOR MOBILE ID AND NEAR-FIELD CAPABILITIES. THE SYSTEM SHALL MONITOR CONTROLLED DOORS FOR OPEN/CLOSED POSITION, ACTIVATE ELECTRIFIED DOOR LOCKING HARDWARE, AND PROVIDE REQUEST TO EXIT (REX) CAPABILITY USING APPROPRIATE REX DEVICES. THE ACCESS CONTROL SYSTEM SHALL INCLUDE END-USER SERVER/CLIENT APPLICATION SOFTWARE LICENSING AND TRAINING. ACCESS CONTROL LOCATIONS SHOWN ON THESE DRAWINGS ARE ESTIMATES AND ALL FINAL QUANTITIES AND LOCATIONS SHALL BE COORDINATED WITH THE OWNER.

THE VIDEO SURVEILLANCE SYSTEM (VS) SHALL USE POE CAMERAS APPROPRIATE FOR THE INTERIOR AND EXTERIOR LOCATIONS AS SHOWN IN THESE DRAWINGS. THE VS SHALL INCLUDE LOCAL STORAGE AND RETRIEVAL USING A RACK-MOUNTED NETWORK VIDEO STORAGE DEVICE, CLIENT APPLICATION SOFTWARE AND TRAINING, AND HAVE CAPABILITY FOR CLOUD STORAGE.

THE INTRUSION ALARM SYSTEM SHALL CONSIST OF PERIMETER DOOR MONITORING AND INTERIOR MOTION SENSORS AND GLASSBREAK SENSORS. ARM AND DISARMING KEYPAD LOCATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND ALL FINAL QUANTITIES AND LOCATIONS SHALL BE COORDINATED WITH THE OWNER.

A SEPARATE MONITORING CONTRACT WITH THE OWNER SHALL BE PURSUED DURING CONSTRUCTION TO ENSURE ACTIVATION OF A MONITORED ACCOUNT AT TIME OF COMMISSIONING.

### APPLICABLE CODES AND STANDARDS

CALIFORNIA BUILDING CODE, 2022 EDITION

CALIFORNIA ELECTRICAL CODE, 2022 EDITION

CITY OF GOLETA ORDINANCES AND STANDARDS

UL 294 STANDARD FOR ACCESS CONTROL SYSTEM UNITS

UL 2610 COMMERCIAL PREMISES SECURITY ALARM UNITS AND SYSTEMS

### ABBREVIATIONS

| | |
|---|---|
| N | NEW |
| E | EXISTING |
| X | DEMOLISH |
| WR | WEATHERPROOF |
| IA | INTRUSION ALARM SYSTEM |
| AC | ACCESS CONTROL SYSTEM |
| VS | VIDEO SURVEILLANCE SYSTEM |

### LABEL LEGEND

INTEGRATED SYSTEMS DEVICES

AC-001
- DEVICE NUMBER
- DEVICE TYPE
  - AC = ACCESS CONTROL
  - VS = VIDEO SURVEILLANCE
  - ID = INTRUSION DETECTION

### EQUIPMENT LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| SCP | SECURITY CONTROL PANEL |
| ACP | ACCESS CONTROL PANEL |
| APS | ACCESS CONTROL POWER SUPPLY |
| DPS | DOOR LOCK POWER SUPPLY - BY OTHERS |
| SKP | SECURITY SYSTEM KEYPAD |
| DT | DUAL-TECHNOLOGY MOTION SENSOR |
| REX | REQUEST TO EXIT MOTION SENSOR |
| GB | GLASS BREAK SENSOR |
| EB | EXIT BUTTON |
| DPS | DOOR POSITION SWITCH |
| CR | ACCESS CONTROL CARD READER |
| EDH | ELECTRIFIED DOOR LOCKING HARDWARE - BY OTHERS |
| CAM-B | BULLET CAMERA |
| CAM-B WP | BULLET CAMERA WEATHERPROOF |
| CAM-D 180 | INTERIOR DOME CAMERA WITH 180° FIELD OF VIEW |
| CAM-D 360 | INTERIOR DOME CAMERA WITH 360° FIELD OF VIEW |
| CAM-D 180 WP | EXTERIOR DOME CAMERA WITH 180° FIELD OF VIEW |

### WIRE LEGEND

| DESIGNATION | NO. OF CONDUCTORS | SIZE AWG | TYPE | USE |
|---|---|---|---|---|
| A | 2 | 18 | TYPE CM GRAY JACKET, RED & BLACK CONDUCTORS | MOTION DETECTOR POWER (12VDC) |
| B | 2 | 18 | TYPE CM GRAY JACKET, GREEN & WHITE CONDUCTORS | INTRUSION ALARM EXPANSION LOOP |
| F | 4 | 18 | TYPE CM GRAY JACKET, GREEN AND WHITE CONDUCTORS | FIRE ALARM EXPANSION LOOP |
| G | 1 | 12 | THHN | COMMON NEGATIVE |
| H | 4 | 14 | TYPE CM GRAY JACKET, RED & BLACK CONDUCTORS | INTRUSION ALARM HARNESS |
| K | 4 | 18 | TYPE CM WHITE JACKET, RED, BLACK, GREEN & WHITE CONDUCTORS | KEYPAD (4W+18GA) |
| P | 4 | 18 | TYPE CM GRAY JACKET, GREEN & WHITE CONDUCTORS | SENSOR (QB) |

NOTES: ALL WIRE SHALL BE PROTECTED IN DEDICATED ALARM CONDUIT UNLESS OTHERWISE NOTED. MAINTAIN 40% MAXIMUM CONDUIT FILL.

UNDERGROUND CABLES AND CONDUCTORS SHALL BE LISTED FOR USE IN WET LOCATIONS (WIRE: PLIAN AQUASEAL OR APPROVED EQUAL.)

A AND B CIRCUITS SHALL BE WITHIN THE SAME CABLE. UNUSED CONDUCTORS SHALL BE TAPED-OFF AS SPARE.

WHERE A 4-CONDUCTOR CABLE IS SPECIFIED, BUT CONNECTIONS REQUIRE ONLY 2 CONDUCTORS, THE UNUSED CONDUCTORS SHALL BE TAPED-OFF AND LABELED AS SPARE.

### SHEET INDEX



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INTERFACE ENGINEERING

JENSEN HUGHES


| No. | Description | Date |
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| | 100% SCHEMATIC DESIGN | 11 OCT 2024 |
| | 100% DESIGN DEVELOPMENT | 22 NOV 2024 |
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NOT FOR CONSTRUCTION

INTEGRATED SYSTEMS - COVER SHEET

Project No.: 24-70
Drawn By: AM/PK
Checked By: CM/JH
Scale: AS NOTED

Sheet No.: IS-000


1 A100 INTEGRATED SYSTEMS SITE PLAN
SCALE: 3/32" = 1'-0"

## LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| SCP | SECURITY CONTROL PANEL |
| ACP | ACCESS CONTROL PANEL |
| APS | ACCESS CONTROL POWER SUPPLY |
| DLP | DOOR LOCK POWER SUPPLY - BY OTHERS |
| SKP | SECURITY SYSTEM KEYPAD |
| DT | DUAL-TECHNOLOGY MOTION SENSOR |
| REX | REQUEST TO EXIT MOTION SENSOR |
| GB | GLASS BREAK SENSOR |
| EB | EXIT BUTTON |
| DPS | DOOR POSITION SWITCH |
| CR | ACCESS CONTROL CARD READER |
| | ELECTRIFIED DOOR LOCKING HARDWARE - BY OTHERS |
| CAM | BULLET CAMERA |
| CAM WP | BULLET CAMERA WEATHERPROOF |
| 180 | INTERIOR DOME CAMERA WITH 180° FIELD OF VIEW |
| 360 | INTERIOR DOME CAMERA WITH 360° FIELD OF VIEW |
| 180 WP | EXTERIOR DOME CAMERA WITH 180° FIELD OF VIEW |

SIMPLIFIED. SEND PROPOSED FOR CONFORMANCE ONLY. SEE CONTR DOCS FOR FULL DESCRIPTION OF SYMBOLS

## SHEET NOTES

1 SHEET T-2 FOR BUILDING DSA APPLICATION SUBMITTAL AND ADDITIONAL BUILDING INFORMATION

## WIRE LEGEND

| DESIGNATION | USE |
|---|---|
| A | INITIATING DEVICE CIRCUIT |
| S | KEYPAD CIRCUIT |
| S | AUDIBLE ALARM CIRCUIT |
| P | 12VDC POWER CIRCUIT |

SIMPLIFIED. SEND PROPOSED FOR CONFORMANCE ONLY. SEE CONTR DOCS FOR FULL DESCRIPTION OF CABLES

## ABBREVIATIONS

| | |
|---|---|
| (N) | NEW |
| (E) | EXISTING |
| (X) | DEMOLISH |
| (R) | REPLACE EXISTING WITH NEW |
| (ER) | EXISTING DEVICE TO BE REMOVED AND STORED FOR REINSTALL |
| WP | WEATHER PROOF |
| AC | ABOVE CEILING |
| EOL | END OF LINE RESISTOR |
| NTS | NOT TO SCALE |

1 ALL DEVICES ARE EXISTING UNLESS OTHERWISE NOTED. NEW DEVICES, CONDUIT PATHWAYS, AND WIRING ARE SHOWN IN BOLD PRINT. NEW DEVICES ARE NOTED WITH THE "N" ABBREVIATION.

2 CONTRACTOR TO FIELD VERIFY CIRCUITS AND PATHWAYS PRIOR TO ALTERATION.

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Key Plan

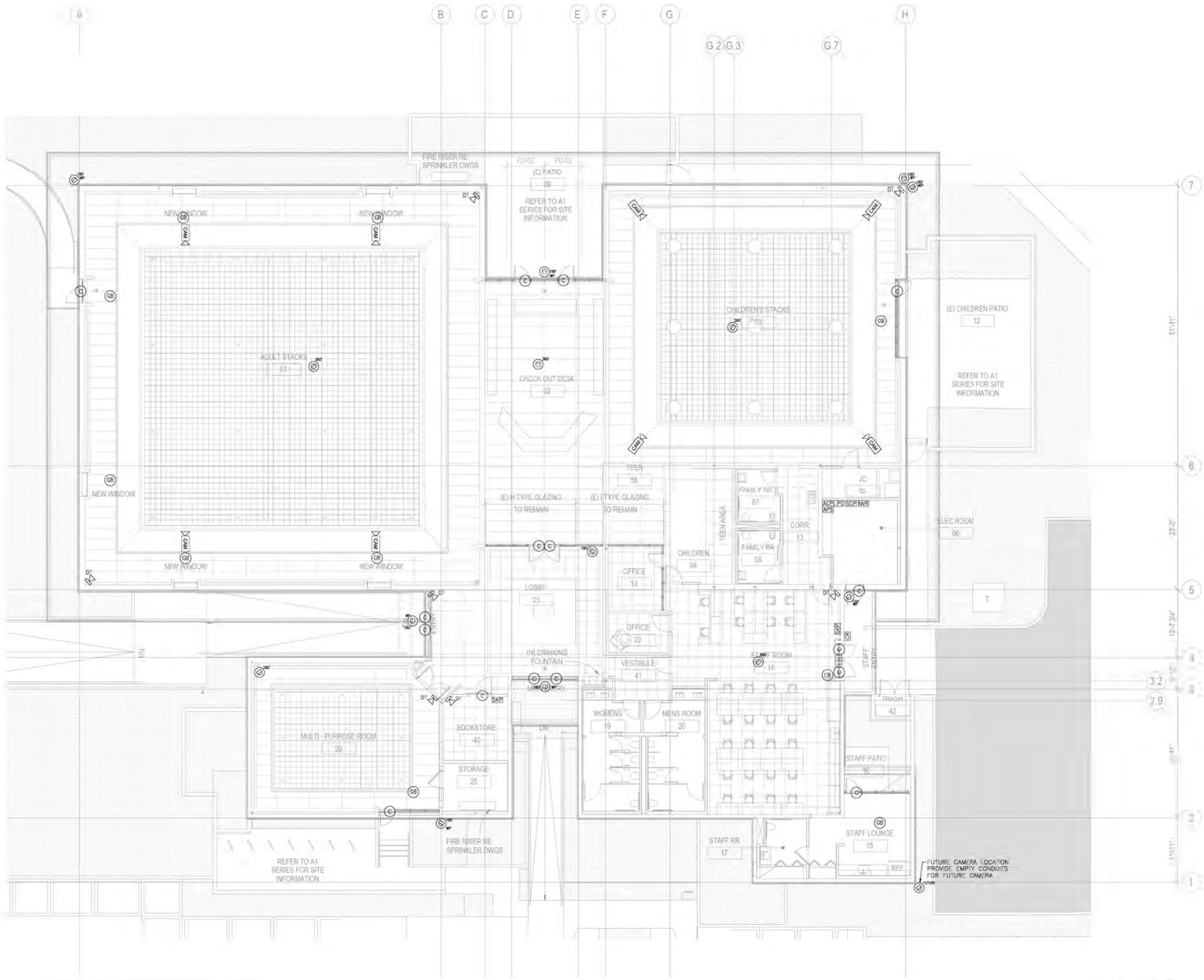
North Sign

Seal & Signature

INTEGRATED SYSTEMS SITE PLAN

Project No. 24-10
Drawn By: ABW
Checked By: DM/JW
Scale: AS NOTED

Sheet No. IS-100




1 INTEGRATED SYSTEMS - FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH

## LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| SCP | SECURITY CONTROL PANEL |
| ACP | ACCESS CONTROL PANEL |
| APS | ACCESS CONTROL POWER SUPPLY |
| DPS | DOOR LOCK POWER SUPPLY - BY OTHERS |
| SKP | SECURITY SYSTEM KEYPAD |
| DT | DUAL-TECHNOLOGY MOTION SENSOR |
| RTX | REQUEST TO EXIT MOTION SENSOR |
| GB | GLASS BREAK SENSOR |
| EB | EXIT BUTTON |
| C | DOOR POSITION SWITCH |
| CR | ACCESS CONTROL CARD READER |
| | ELECTRIFIED DOOR LOCKING HARDWARE - BY OTHERS |
| CAM | BULLET CAMERA |
| CAM WP | BULLET CAMERA WEATHERPROOF |
| MD | INTERIOR DOME CAMERA WITH 180° FIELD OF VIEW |
| MD | INTERIOR DOME CAMERA WITH 360° FIELD OF VIEW |
| MD | EXTERIOR DOME CAMERA WITH 180° FIELD OF VIEW |

SIMPLIFIED SYMBOLS SHOWN FOR CONVENIENCE ONLY. SEE COVER SHEET FOR FULL DESCRIPTION OF SYMBOLS

## WIRE LEGEND

| DESIGNATION | USE |
|---|---|
| A | INITIATING DEVICE CIRCUIT |
| B | KEYPAD CIRCUIT |
| S | AUDIBLE ALARM CIRCUIT |
| P | 12VDC POWER CIRCUIT |

SIMPLIFIED SYMBOLS SHOWN FOR CONVENIENCE ONLY. SEE COVER SHEET FOR FULL DESCRIPTION OF CABLES

## ABBREVIATIONS

| | |
|---|---|
| (N) | NEW |
| (E) | EXISTING |
| (X) | DEMOLISH |
| (R) | REPLACE EXISTING WITH NEW |
| (ER) | EXISTING DEVICE TO BE REMOVED AND STORED FOR REINSTALL |
| WP | WEATHER PROOF |
| AC | ABOVE CEILING |
| EOL | END OF LINE RESISTOR |
| NTS | NOT TO SCALE |

1. ALL DEVICES ARE EXISTING UNLESS OTHERWISE NOTED. NEW DEVICES, CONDUIT PATHWAYS, AND WIRING ARE SHOWN IN BOLD PRINT. NEW DEVICES ARE NOTED WITH THE "N" ABBREVIATION.
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Key Plan:

North Dato:

Seal & Signature:

Drawing Name:
INTEGRATED SYSTEMS - FLOOR PLAN

Project No: 24-01
Drawn By: AM/PH
Checked By: DM/JH
Scale: AS NOTED

Sheet No:
IS-201

## SHEET NOTES

1 xxxxx

## LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| SCP | SECURITY CONTROL PANEL |
| ACP | ACCESS CONTROL PANEL |
| APS | ACCESS CONTROL POWER SUPPLY |
| DPS | DOOR LOCK POWER SUPPLY - BY OTHERS |
| SKP | SECURITY SYSTEM KEYPAD |
| DT | DUAL-TECHNOLOGY MOTION SENSOR |
| RTE | REQUEST TO EXIT MOTION SENSOR |
| GB | GLASS BREAK SENSOR |
| EB | EXIT BUTTON |
| DPS | DOOR POSITION SWITCH |
| CR | ACCESS CONTROL CARD READER |
| | ELECTRIFIED DOOR LOCKING HARDWARE - BY OTHERS |
| | BULLET CAMERA |
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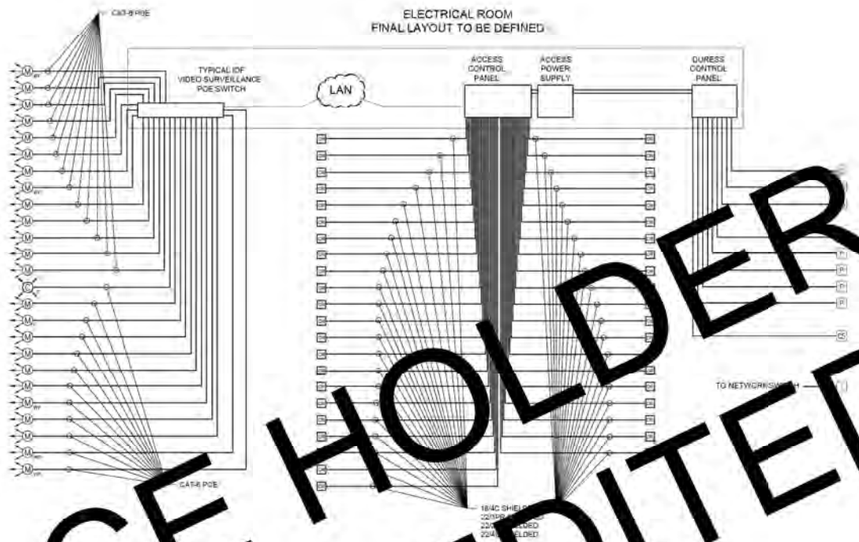
| 180 | INTERIOR DOME CAMERA WITH 180° FIELD OF VIEW |
| 360 | INTERIOR DOME CAMERA WITH 360° FIELD OF VIEW |
| 180 WP | EXTERIOR DOME CAMERA WITH 180° FIELD OF VIEW |

## WIRE LEGEND

| DESIGNATION | USE |
|---|---|
| A | INITIATING DEVICE CIRCUIT |
| K | KEYPAD CIRCUIT |
| S | AUDIBLE ALARM CIRCUIT |
| P | 12VDC POWER CIRCUIT |




1 / A300 INTEGRATED SYSTEMS - RISER DIAGRAM
SCALE: NONE



## ABBREVIATIONS

| | |
|---|---|
| (N) | NEW |
| (E) | EXISTING |
| (D) | DEMOLISH |
| (R) | REPLACE EXISTING WITH NEW |
| (ER) | EXISTING DEVICE TO BE REMOVED AND STORED FOR REINSTALL |
| WP | WEATHER PROOF |
| AL | ABOVE LEVEL |
| EOL | END OF LINE (RESISTOR) |
| NTS | NOT TO SCALE |

1. ALL DEVICES ARE EXISTING UNLESS OTHERWISE NOTED. NEW DEVICES, CONDUIT PATHWAYS, AND WIRING ARE SHOWN IN BOLD PRINT. NEW DEVICES ARE NOTED WITH THE "N" ABBREVIATION.
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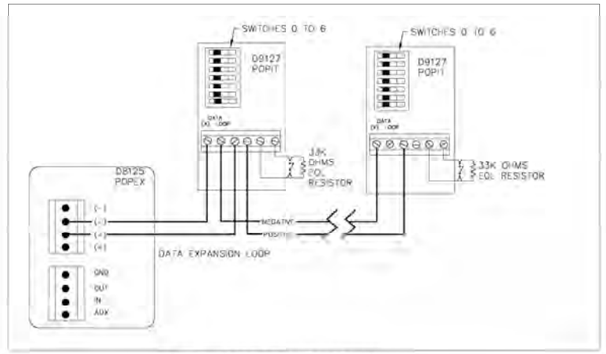
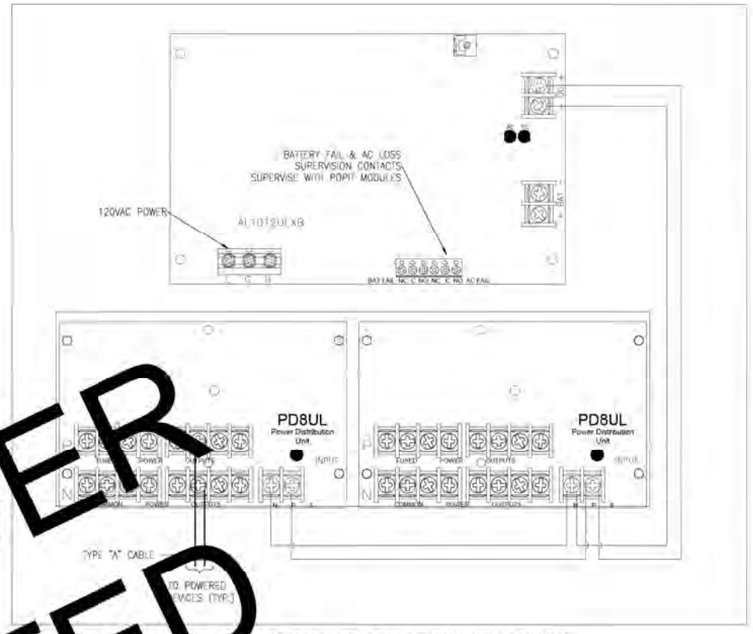
INTEGRATED SYSTEMS RISER DIAGRAM

Project No: 2470
Sheet No: IS-300
Drawn By: AB/PH
Checked By: DM/JM
Scale: AS NOTED




3 D9127U POPIT MODULE
SCALE: NOT TO SCALE




AL1012ULXPD16 SYSTEM POWER SUPPLY
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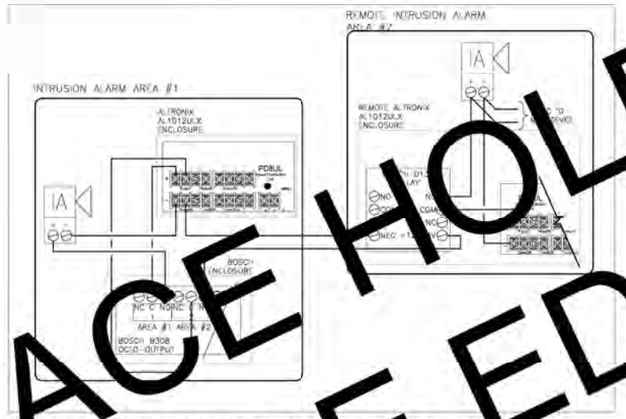
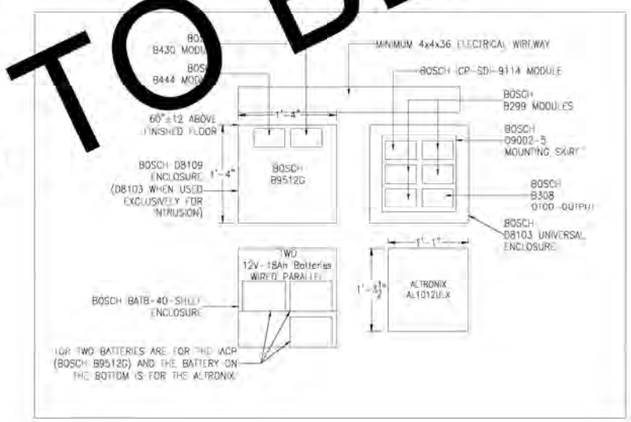
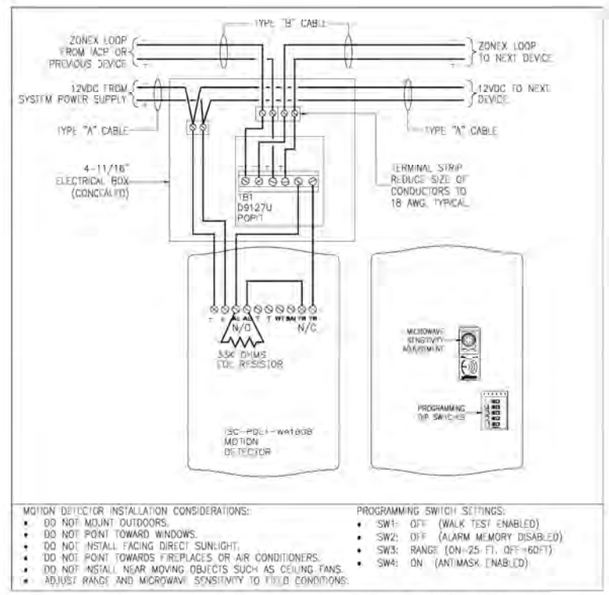



4 INTRUSION ALARM NORMAL TYPICAL WIRING DIAGRAM
NTS




5 TYPICAL INTRUSION ALARM PANELS LAYOUT
NTS




MOTION DETECTOR INSTALLATION CONSIDERATIONS:
- DO NOT MOUNT OUTDOORS.
- DO NOT POINT TOWARD WINDOWS.
- DO NOT INSTALL FACING DIRECT SUNLIGHT.
- DO NOT POINT TOWARDS FIREPLACES OR AIR CONDITIONERS.
- DO NOT INSTALL NEAR MOVING OBJECTS SUCH AS CEILING FANS.
- ADJUST RANGE AND MICROWAVE SENSITIVITY TO FIELD CONDITIONS.

PROGRAMMING SWITCH SETTINGS:
- SW1: OFF (WALK TEST ENABLED)
- SW2: OFF (ALARM MEMORY DISABLED)
- SW3: RANGE (ON=25 FT, OFF=60FT)
- SW4: ON (ANTIMASK ENABLED)

2 ISC-PDL1-WA18GB MOTION DETECTOR TYPICAL WIRING DIAGRAM
NTS



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INTEGRATED SYSTEMS - DETAILS

Project No. 2472
Drawn By: ABD/mc
Checked By: CH/ed/mt
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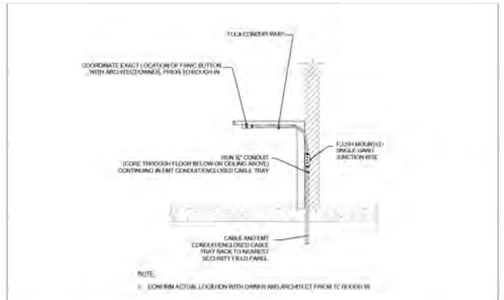
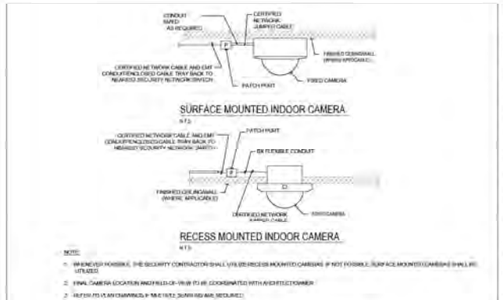
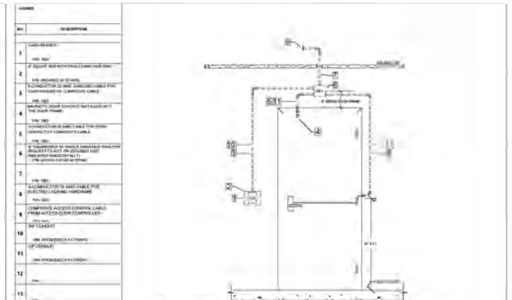
Sheet No. IS-400



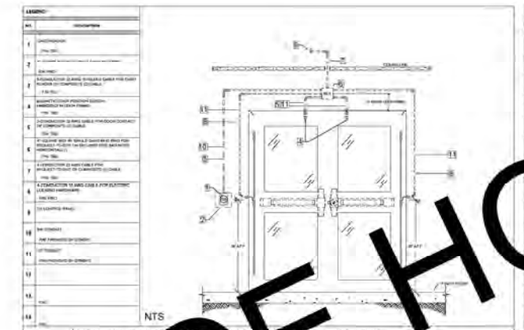

01 TYP. DESK MOUNTED PANIC BUTTON
SCALE: NTS




02 TYP. SURFACE/RECESS MOUNTED INDOOR CAMERA
SCALE: NTS

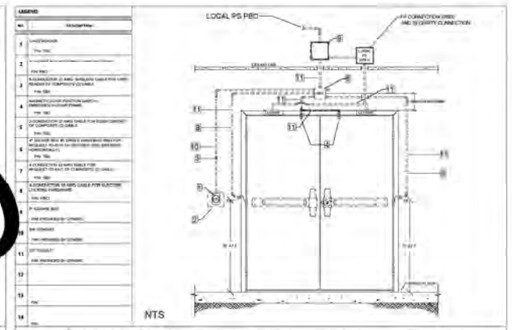



03 TYP. SINGLE DOOR WITH PANIC HARDWARE
SCALE: NTS
HARDWARE SETS:



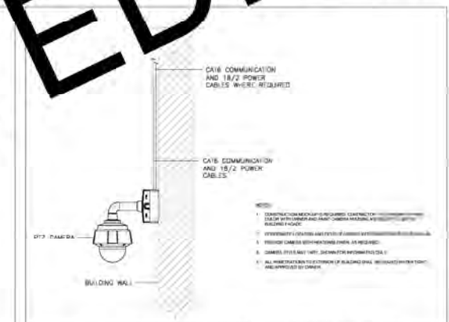

04 TYP. GLASS DOUBLE DOOR PANIC HARDWARE
SCALE: NTS
HARDWARE SETS:

05 TYP. SINGLE DOOR WITH MORTISE LOCK
SCALE: NTS
HARDWARE SETS:
REFER TO FLOOR PLANS FOR DOOR SWING & CARD READER LOCATION




06 TYP. DOUBLE DOOR WITH PANIC HARDWARE/ ELECTRIC CLOSERS
SCALE: NTS
HARDWARE SETS:
REFER TO FLOOR PLANS FOR DOOR SWING & CARD READER LOCATION


07 TYP. WALL/CORNER MOUNTED EXTERIOR CAMERA
SCALE: NTS




08 TYP. WALL/CORNER MOUNTED EXTERIOR CAMERA
SCALE: NTS


09 HEAD END EQUIPMENT RACK IN ROOMS: IT 301 AND IT SERVER ROOM 233
SCALE: NTS



GOLETA LIBRARY

CITY OF GOLETA

500 N Fairview Ave
Goleta, CA 93117

Owner:
JM | A+D
314 N Independencia Blvd.
Mechanicsburg, CA 93055
(310) 464-3320
www.JMADstudio.com

Consultants:
kpff
UPLA STUDIO
INTERFACE ENGINEERING
JENSEN HUGHES

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INTEGRATED SYSTEMS - DETAILS

Project No.: 24701
Drawn by: ADRN
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## ATTACHMENT 2

PowerPoint Presentation

# Goleta Valley Library ADA, Safety and Building Improvement Project

## Design Presentation

CITY OF GOLETA

City Council – August 19, 2025

Architect: Jeffrey Miller, JM|A+D

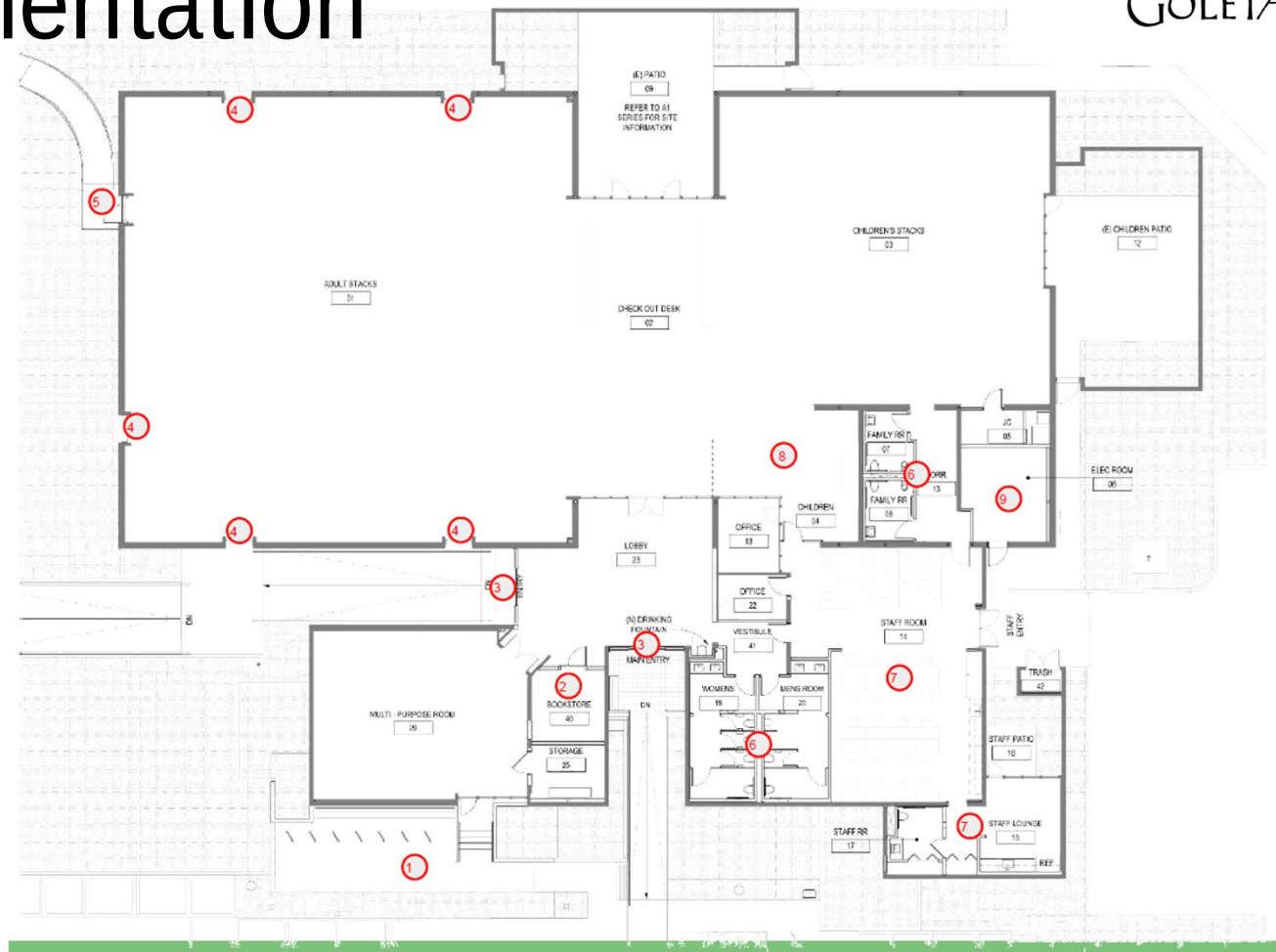
City Staff: Matthew R. Fore, General Services Director

# Project Goals

- Americans with Disabilities Act Compliance
- Restroom Renovations
- Safety & Security
- Upgraded HVAC & Electrical Systems
- Modernizing of Ceiling Design and LED Lighting Upgrades
- Door/Window Replacements and Upgrades
- Fascia Repair and Exterior Paint

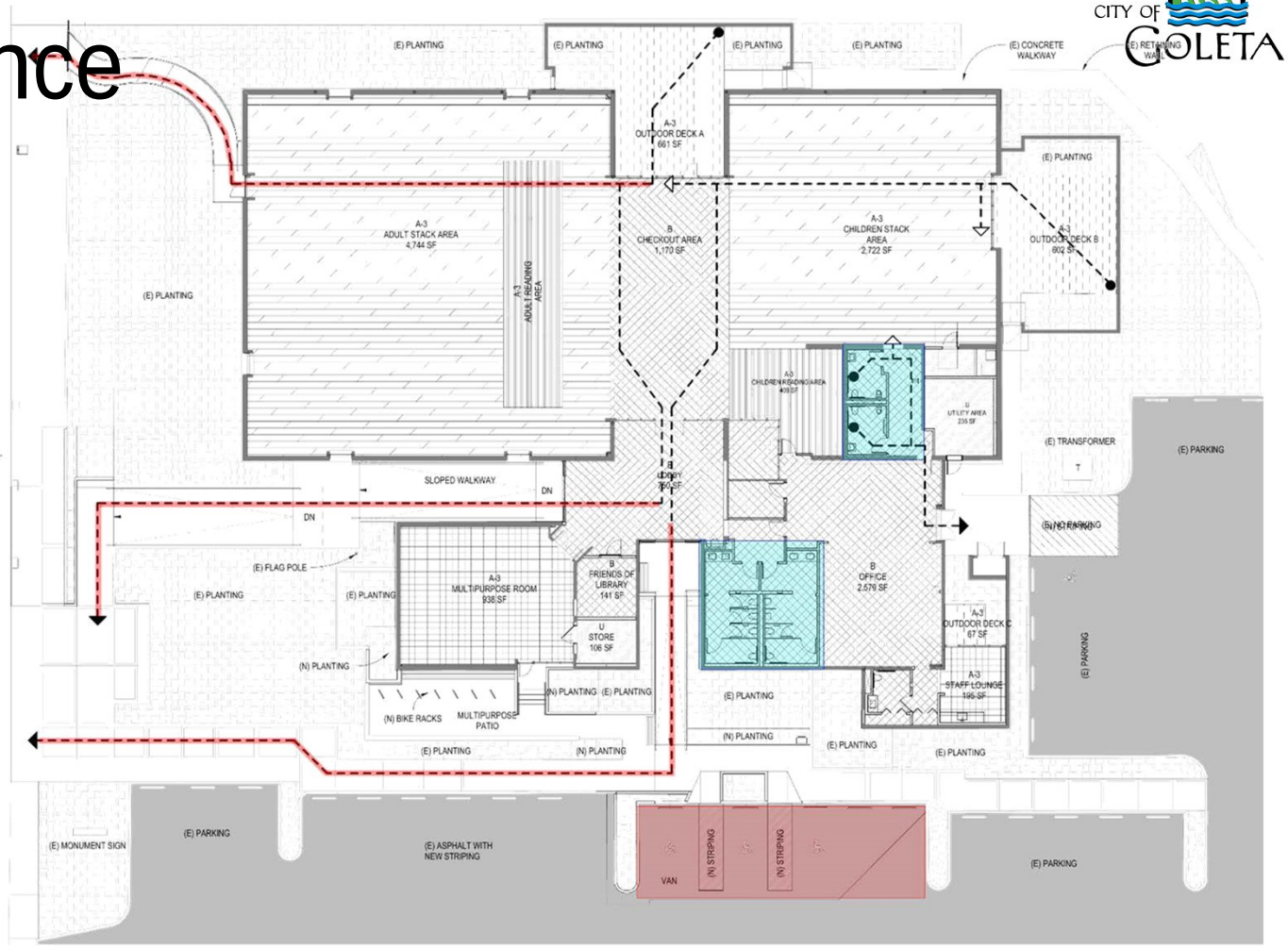
# Design Implementation

1. Improved bike stations, accessible book drop
2. Dedicated Friends of the Library space
3. Accessible entrances, automatic doors
4. Upgraded windows
5. New emergency exit on the Fairview side of Library
6. Modernized and accessible restrooms
7. Modernized and accessible work room and staff lounge
8. Rededicated Boysel Children's Story Room
9. Electrical and Utility room upgrades



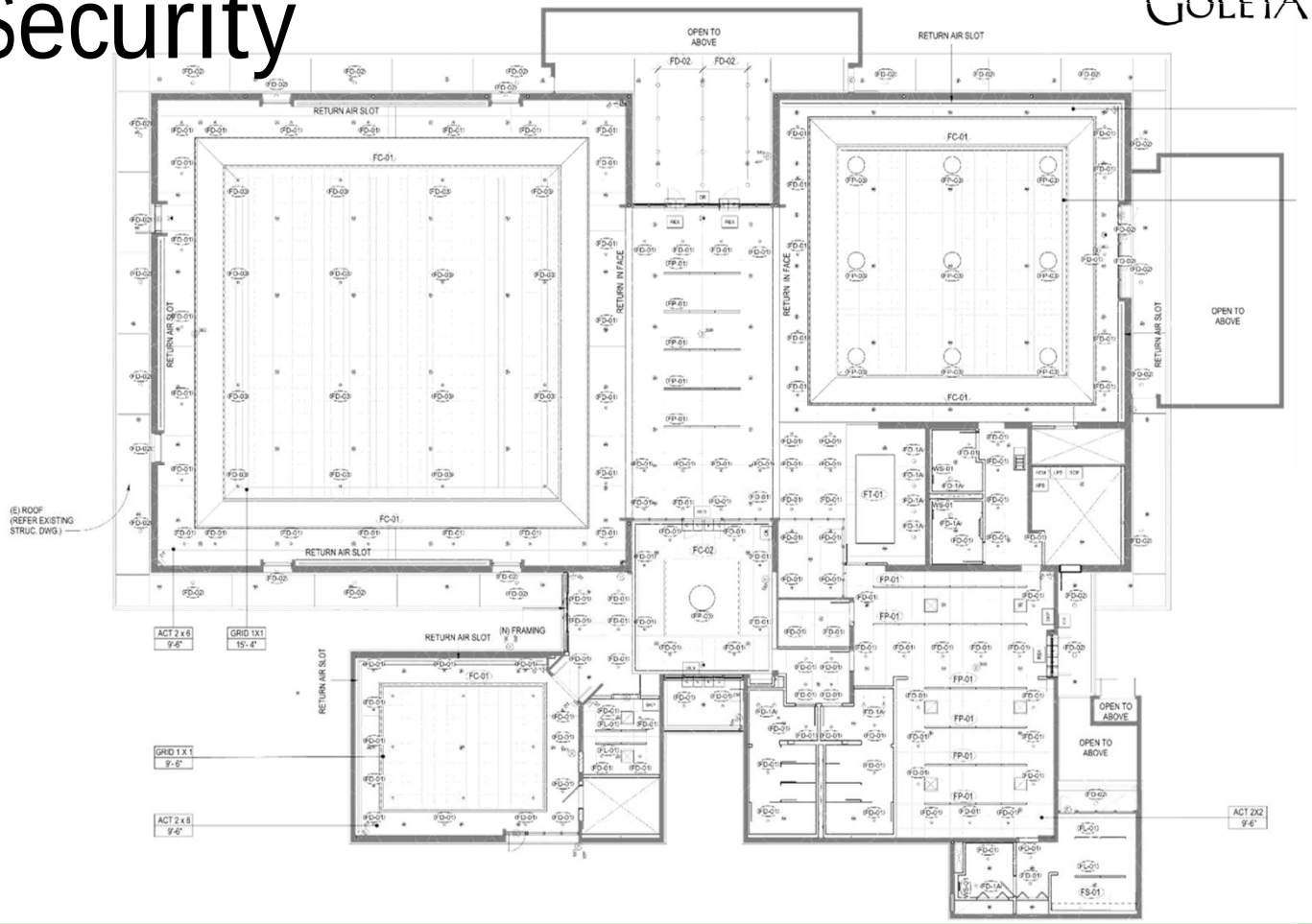
# ADA Compliance

- Accessible Parking
- ADA Compliant Exits/Entrances
- ADA Compliant Men's and Women's Restrooms
- ADA Compliant Family Restrooms
- ADA Path of Travel



# Lighting and Security

- Enhanced LED Lighting System
- Modernized Ceiling Design
- Advanced Safety and Security Infrastructure
  - Fire Suppression
  - CCTV
  - Burglar/Alarm





Interior Rendering - Children’s Reading Area

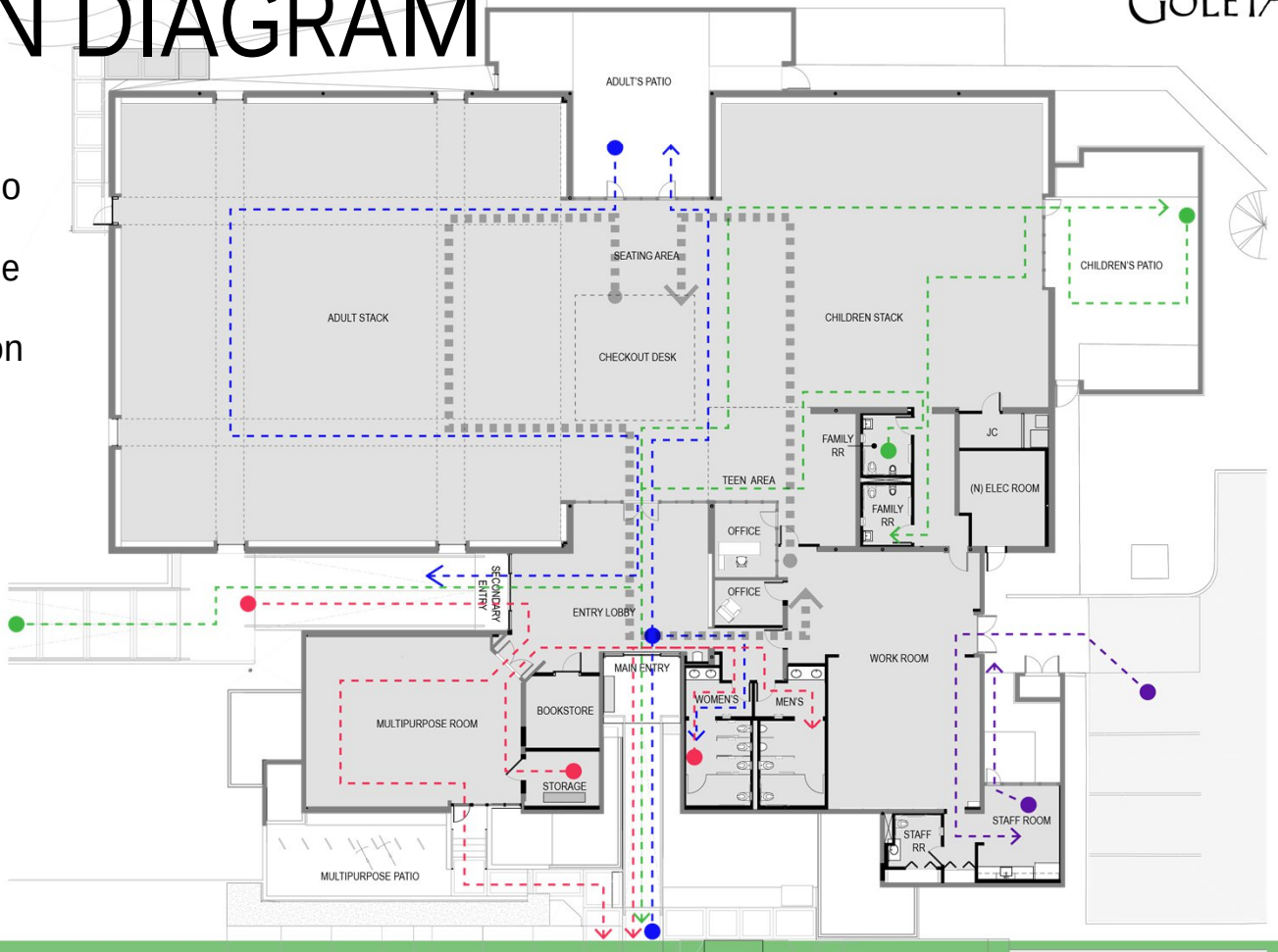
Interior Rendering - Adult’s Reading Area

# INTERIOR DESIGN INTENT

- Preserve the Library's Essence
  - Retain the cherished character and atmosphere of the Goleta Valley Library.
  - Update the layout and furniture while honoring the original spirit of the space.
  - Integrate current and emerging technologies, along with adaptable infrastructure to support future upgrades.
- Reuse and Space Optimization
  - Reuse existing bookcases where possible.
  - Ensure sufficient shelving and floor space to accommodate the entire current and anticipated volume collection.
- Furniture Design
  - Select comfortable, ergonomic furniture to enhance user experience.
  - Use modular, flexible pieces to allow for easy reconfiguration and multipurpose usage.
- Children’s Area Enhancement
  - Design Children’s area that supports all commonly hosted children’s events and programs.
  - Include elements that are playful, safe, and engaging for young patrons.

# CIRCULATATION DIAGRAM

- We developed a circulation diagram to guide the flow of movement throughout the space, allowing for the strategic placement of furniture that supports intuitive, seamless navigation and accessibility.




- LEGEND
  - ADULT AREA PATRON
  - CHILDREN AREA PATRON
  - MULTIPURPOSE AREA
  - LIBRARY STAFF
  - BOOK CART

# INTERIOR DESIGN IMPLEMENTATION

1. Rearrange bookstacks using refinished existing cases to fit the full collection and match the new interior.
2. Create a soft-seating adult area for quiet reading and relaxation.
3. Add bookable meeting pods for calls, group meetings, and small conferences.
4. Redesign checkout area for a smaller, more efficient layout.
5. Include a soft-seating zone for young adult patrons.
6. Place self-checkout stations near the main entrance for convenience.
7. Redesign children's area with whimsical themes, soft furniture, and open activity space.
8. Introduce an outdoor messy learning zone for hands-on experiences.
9. Add a staff book sorting and staging area to streamline operations.


Exterior Rendering - Front Entrance

Exterior Rendering - Front Entrance (Fairview View)

# Next Steps

- Staff is requesting Council authorization to advertise the construction bid
- Staff will return to Council (est. Fall of 2025) to request formal adoption of the final Conformed Set of Plans for Construction and Specifications and to adopt CEQA findings
- Staff will also review the Project Budget with Council based upon construction bids received

# Recommendation

1. Receive a presentation on the proposed design for the Goleta Valley Library ADA, Safety, and Building Improvements Project (CIP No. 9130); and
2. Authorize Staff to advertise a notice inviting construction bids for the Goleta Valley Library ADA, Safety, and Building Improvements Project (CIP No. 9130).

# Questions?