2026 Development Impact Fee Program Update

APPENDIX B

TRANSPORTATION IMPROVEMENT PROJECTS COST ESTIMATES

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-01 Fairview Avenue at Calle Real Traffic Signal

Description:
- Construct second through lane on Calle Real EB by adding separate right turn pocket.
- Construct left turn lane on Fairview Avenue NB to accommodate double left turn lanes.
- Widen south side of Calle Real to accommodate additional through lane.
- Construct additional left turn lane on Fairview Avenue NB to accommodate double left turn lanes.
- Widen east side of Fairview Avenue to accommodate additional lane.
- Construct Class II bike lanes in both directions on Fairview Avenue and Class IV on west leg.
- Remove sidewalk from west side of Fairview Avenue.

Scope: Demolition; pavement widening; traffic signal modification; pavement delineation with slurry seal; drainage modifications; right of way.

Limits: Intersection and Calle Real west leg and Fairview Avenue south leg.

Estimate Type: Planning (City) Estimate Date: 20-Jan-26

Working Days: 160

		Current Year Costs		Section	
Earthwork	$	191,600	+	1	
Pavement Structural Section	$	328,900	+	2	
Drainage	$	34,900	+	3	
Specialty Items	$	-	+	4	
Environmental	$	15,000	+	5	
Traffic Items	$	840,000	+	6	
Minor Items	$	282,100	+	7	
Roadway Mobilization	$	169,300	+	8	
Roadway Contingency	$	372,400	+	9	
TOTAL ROADWAY COST	$	2,234,200	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**2,234,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**3,947,000**	=	11	
Management Support	$	223,400	+	10%	of Construction Costs
PA&ED Support	$	223,400	+	10%	
PS&E Support	$	335,100	+	15%	
Right of Way Support	$	44,700	+	2%	
Construction Support	$	357,500	+	16%	
Support Contingency	$	236,900	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**1,421,000**	=		

Total Estimated Project Costs: $ 7,650,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-01 Fairview Avenue at Calle Real Traffic Signal

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	885	x	160.00	= $	141,600	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY		x		= $	-	
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	50,000	= $	50,000	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**191,600**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	316	x	418.28	= $	132,176	2
Class 2 Aggregate Base	CY	242	x	295.45	= $	71,499	3
Slurry Seal	TN	7	x	3,507.95	= $	24,556	4
Minor Concrete (Miscellaneous Construction)	CY	83	x	1,212.77	= $	100,660	5
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**328,900**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	2	x	2,900.00	= $	5,800	7
Reinforced Concrete Pipe	LF	60	x	485.00	= $	29,100	8
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**34,900**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-01 Fairview Avenue at Calle Real Traffic Signal

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS		x		= $	-	
Irrigation System	LS		x		= $	-	
Plant Establishment Work	LS		x		= $	-	
Implement Erosion Control	LS		x		= $	-	
Prepare and Implement SWPPP / WPCP	LS	1	x	15,000	= $	15,000	
				TOTAL ENVIRONMENTAL		**$**	**15,000**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	700,000	= $	700,000	11
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	40,000	= $	40,000	12
				TOTAL TRAFFIC ITEMS		**$**	**840,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	70,520	
Stage Construction and Traffic Handling				5.0%	$	70,520	
ADA Items				5.0%	$	70,520	
Other Minor Items				5.0%	$	70,520	
Total of Section 1-6	$	1,410,400	x	20.0%	= $	282,080	
				TOTAL MINOR ITEMS		**$**	**282,100**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	1,692,500	x	10%	= $	169,250	
				TOTAL MOBILIZATION		**$**	**169,300**

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	1,861,800	x	20%	= $	372,360	
				TOTAL CONTINGENCY		**$**	**372,400**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-01 Fairview Avenue at Calle Real Traffic Signal

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	6,525	x	250.00	=	$	1,631,153	9
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	LS	1	x	1,000,000	=	$	1,000,000	10
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	50%	x	2,631,153	=	$	1,315,576	
TOTAL RIGHT OF WAY ESTIMATE						**$**		**3,946,700**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-01 Fairview Avenue at Calle Real Traffic Signal

NOTES AND CALCULATIONS

NOTE NO. 1

Roadway excavation area (from CAD)

6532	SF	Widenings
2583	SF	Sidewalks
5215	SF	Remove sidewalk

Depth

1.67 feet

Volume = (Sum of Areas) * Depth

23884 CF

885 CY

RESULT NO. 1 **885**

NOTE NO. 2

AC pavement area (from CAD)

Area (from CAD)

6532 SF

Depth

0.67 feet

Tonnage = Area * Depth * 145 lbs/CF / 2000lbs/ton

316 ton

RESULT NO. 2 **316**

NOTE NO. 3

Aggregate base

Area (from CAD)

6532 SF

Depth

1.00 feet

Volume = area * depth

6532 CF

242 CY

RESULT NO. 3 **242**

NOTE NO. 4

Slurry seal

Area	11231.24	feet
Tonnage = area / 1500SF/TN	7.487493	TN

RESULT NO. 4 **7**

NOTE NO. 5

Concrete Sidewalks

Sidewalks Area (from CAD)

2583 SF

Depth

0.33 feet

Volume = Area * Depth

861 CF

32 CY

Concrete Curb and Gutter Type A2-6 per Caltrans

Volume / foot

0.06 CY/foot

Length

566 feet (West)

297 feet (East)

Volume = Volume / foot * (Sum of length)

51 CY

RESULT NO. 5 **83**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-01 Fairview Avenue at Calle Real Traffic Signal

NOTES AND CALCULATIONS

NOTE NO. 6

Drainage Impacts

Red Remove curb inlet located on east side of Fairview
Remove pipe connecting this structure to the curb inlet on the south side of Calle Real

Blue New curb inlet on east side of widened Fairview
New pipe connecting new structure and the existing structure on the south side of Calle Real



RESULT NO. 6 **Notes 7&8 Info**

NOTE NO. 7

Drainage System Needed (shown in Note 6)

Curb Inlets Type OS (H=6'), cast in place per Caltrans standard plans:

Concrete / Structure

1.53	CY	for H = 3'
0.278	CY	per each additional foot
2.364	CY	EA

RESULT NO. 7 **2**

NOTE NO. 8

Assumed Drainage System Needed shown in Note 6.

Reinforced Concrete Pipe Length 60 feet

RESULT NO. 8 **60**

NOTE NO. 9

Acquisition - Commercial Property

Row to add Class IV lanes on west leg

Length

300	LF

Width

16	FT

Total

4800	SF

RoW Take East of Fairview

661	SF

RoW Take South of Calle Real

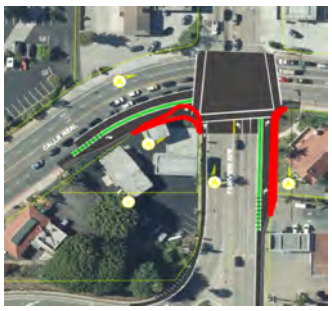
763	SF

RoW for SD

300	SF

Total

1725	SF



High value due to nature of business.

RESULT NO. 9 **6,525**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-01 Fairview Avenue at Calle Real Traffic Signal

NOTES AND CALCULATIONS

NOTE NO. 10

Clearance/ Demo Area
650 SF

Remove gas filling station island and canopy.

High cost due to nature of structure.



RESULT NO. 10 **650**

NOTE NO. 11

Signal and Lighting
Scale: Major
Legs: 4
Cost: $700,000

RESULT NO. 11 **$700,000**

NOTE NO. 12

Permanent Pavement Delineation
Cost $40,000

RESULT NO. 12 **$40,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-01 Fairview Avenue at Calle Real (Roundabout)

Description: • Construct two lane roundabout to improve congestion at one of the busiest intersections in the City.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection and each leg of Fairview Avenue and Calle Real.

Estimate Type: Planning (City) Estimate Date: 20-Jan-26

Working Days: 240

		Current Year Costs		Section
Earthwork	$	1,141,700	+	1
Pavement Structural Section	$	1,722,300	+	2
Drainage	$	362,100	+	3
Specialty Items	$	-	+	4
Environmental	$	650,000	+	5
Traffic Items	$	825,000	+	6
Minor Items	$	1,128,300	+	7
Roadway Mobilization	$	583,000	+	8
Roadway Contingency	$	1,282,500	+	9
TOTAL ROADWAY COST	$	7,694,900	=	
TOTAL STRUCTURES COST	$	-	+	10
TOTAL CONSTRUCTION COST	**$**	**7,695,000**	=	
TOTAL RIGHT OF WAY COST	**$**	**27,500,000**	=	11

Management Support	$	769,500	+	10%	of Construction Costs
PA&ED Support	$	769,500	+	10%	
PS&E Support	$	1,154,300	+	15%	
Right of Way Support	$	153,900	+	2%	
Construction Support	$	1,231,200	+	16%	
Support Contingency	$	815,700	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**4,895,000**	=		

Total Estimated Project Costs: $ 40,100,000 ✗ **Check Status**

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-01 Fairview Avenue at Calle Real (Roundabout)

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	5,833	x	110.00	= $	641,630	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY		x		= $	-	
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	500,000	= $	500,000	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**1,141,700**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	2,855	x	237.97	= $	679,404	2
Class 2 Aggregate Base	CY	2,917	x	134.30	= $	391,753	3
Slurry Seal	TN	28	x	2,700.00	= $	75,600	4
Minor Concrete (Miscellaneous Construction)	CY	404	x	1,424.58	= $	575,530	5,6,7,8
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**1,722,300**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	9
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	10
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**362,100**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-01 Fairview Avenue at Calle Real (Roundabout)

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	400,000	= $	400,000	
Irrigation System	LS	1	x	125,000	= $	125,000	
Plant Establishment Work	LS	1	x	65,000	= $	65,000	
Implement Erosion Control	LS	1	x	25,000	= $	25,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	35,000	= $	35,000	
				TOTAL ENVIRONMENTAL			**$ 650,000**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS	1	x	725,000	= $	725,000	11
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	100,000	= $	100,000	
				TOTAL TRAFFIC ITEMS			**$ 825,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				6.0%	$	282,066	
Stage Construction and Traffic Handling				8.0%	$	376,088	
ADA Items				4.0%	$	188,044	
Other Minor Items				6.0%	$	282,066	
Total of Section 1-6	$	4,701,100	x	24.0%	= $	1,128,264	
				TOTAL MINOR ITEMS			**$ 1,128,300**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	5,829,400	x	10%	= $	582,940	
				TOTAL MOBILIZATION			**$ 583,000**

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	6,412,400	x	20%	= $	1,282,480	
				TOTAL CONTINGENCY			**$ 1,282,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-01 Fairview Avenue at Calle Real (Roundabout)

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	17,500	x	250.00	=	$	4,375,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS	1	x	500,000	=	$	500,000	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF	1	x	2,000,000	=	$	2,000,000	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	300%	x	6,875,000	=	$	20,625,000	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**27,500,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-01 Fairview Avenue at Calle Real (Roundabout)

NOTES AND CALCULATIONS

NOTE NO. 1

Roadway excavation area (from CAD)
52,500 SF
Depth of AC
0.75 feet
Depth of base
2.25 feet
Roadway excavation = width * length * depth
157,500 CF
5,833 CY **RESULT NO. 1** **5,833**

NOTE NO. 2

AC pavement area (from CAD)
52,500 SF
Depth of AC
0.75 feet
Roadway excavation = width * length * depth
39,375 CF * 145 pounds/CF / 2,000 pounds/ton
2,855 TN **RESULT NO. 2** **2,855**

NOTE NO. 3

Aggregate base area (from CAD)
52,500 SF
Depth of base
1.50 feet
Roadway excavation = width * length * depth
78,750 CF
2,917 CY **RESULT NO. 3** **2,917**

NOTE NO. 4

Approaches to project
Length along:
150 feet northerly Fairview
150 feet easterly Calle Real
50 feet southerly Fairview
150 feet westerly Calle Real
Width
86 feet northerly Fairview
72 feet easterly Calle Real
56 feet southerly Fairview
102 feet westerly Calle Real
Area
41,800 feet
Coverage rate
1,500 SF/TN
28 CY **RESULT NO. 4** **28**

I-01 Fairview Avenue at Calle Real (Roundabout)

NOTES AND CALCULATIONS

NOTE NO. 5

New sidewalk length

225	feet	Fairview NW
100	feet	Fairview NE
420	feet	Calle Real NE
100	feet	Calle Real SE
100	feet	Fairview SE
110	feet	Fairview SW
200	feet	Calle Real SW
225	feet	Calle Real NW
1480	feet	TOTAL

Sidewalk width (most of it is multi-use path)

10 feet

Sidewalk thickness

4 inches

Volume = Minor Concrete (Miscellaneous Construction)

4933 CF

183 CY **RESULT NO. 5** **183**

NOTE NO. 6

New Caltrans A2-6 curb and gutter length

240	feet	Fairview NW
115	feet	Fairview NE
450	feet	Calle Real NE
110	feet	Calle Real SE
110	feet	Fairview SE
120	feet	Fairview SW
225	feet	Calle Real SW
240	feet	Calle Real NW
1610	feet	TOTAL

Volume / foot

0.06 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

95 CY **RESULT NO. 6** **95**

NOTE NO. 7

Driveways and truck apron

4	each	
25	feet	length
100	feet	TOTAL

Driveway width

20 feet

Driveway area

2000 SF

Truck apron (CAD)

2500 SF

Concrete thickness

6 inches

Volume = Minor Concrete (Miscellaneous Construction)

2250 CF

83 CY **RESULT NO. 7** **83**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-01 Fairview Avenue at Calle Real (Roundabout)

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb length

500	feet	northerly Fairview
500	feet	easterly Calle Real
225	feet	southerly Fairview
450	feet	westerly Calle Real
1,675	feet	TOTAL

Volume / foot

0.03 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

43 CY **RESULT NO. 8** **43**

NOTE NO. 9

New drop inlets - assumed one each side of the road on each leg

8 each

Depth of drop inlets

5 feet

Drop inlet volume - Caltrans OL-10

Volume / foot

2.39 CY (3 feet deep)

0.28 CY/each additional foot of depth up to 8 feet

Volume = Minor Concrete (Miscellaneous Construction)

24 CY **RESULT NO. 9** **24**

NOTE NO. 10

Estimated length of RCP

1,500 feet **RESULT NO. 10** **1,500**

NOTE NO. 11

New street lights

20 each

Cost per street light

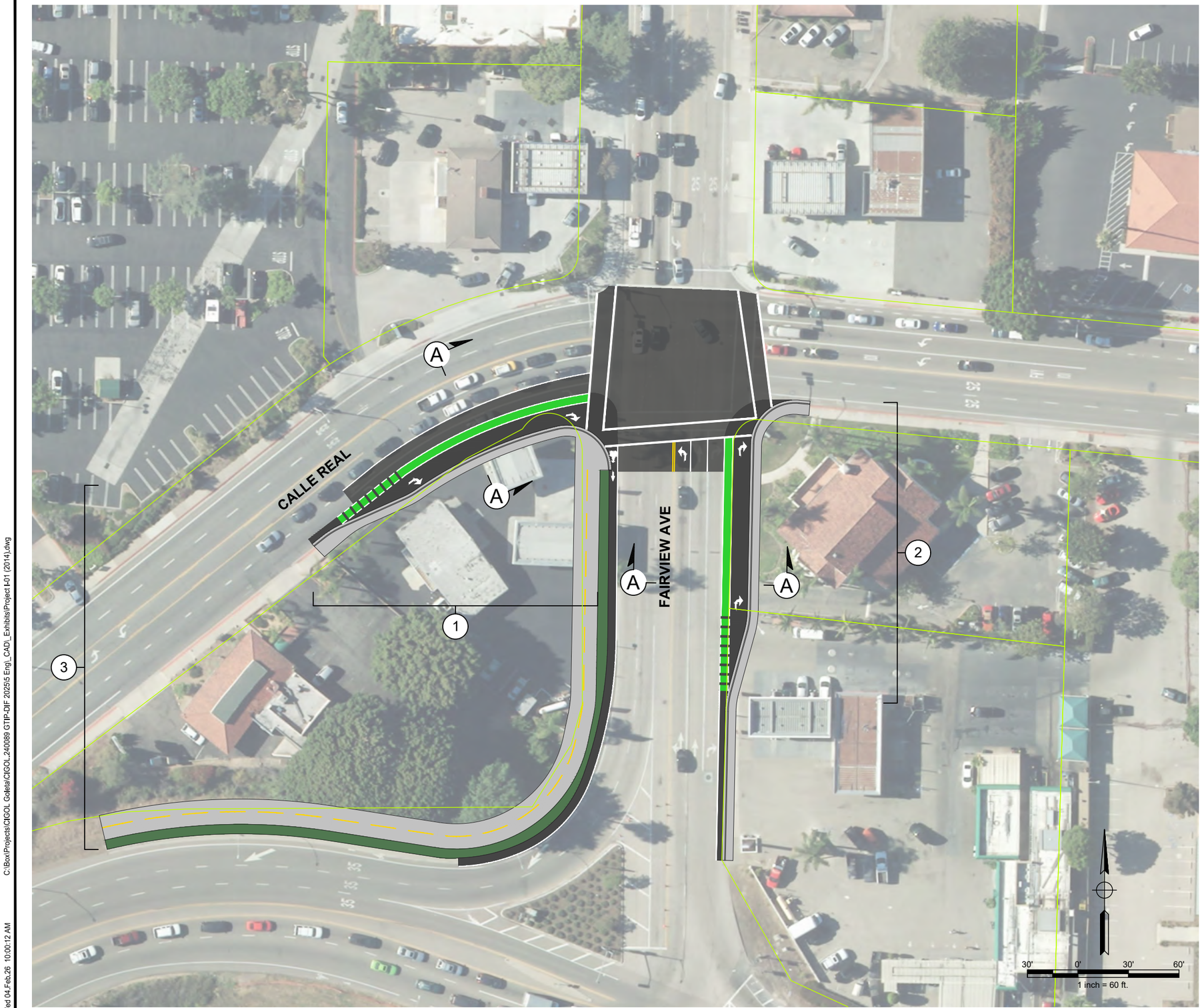
$ 35,000

Total lights

$ 700,000

Connection

$ 25,000 **RESULT NO. 11** **$ 725,000**

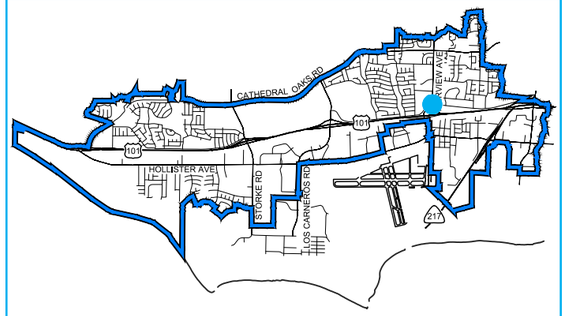


C:\Box\Projects\GTGOL Goleta\GTGOL_240089 GTIP-DIF 202515 Engl_CAD_Exhibits\Project I-01 (2014).dwg

Wed 04.Feb.26 10:00:12 AM

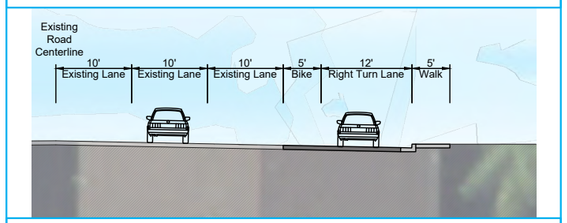
GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-01: Fairview Avenue and Calle Real



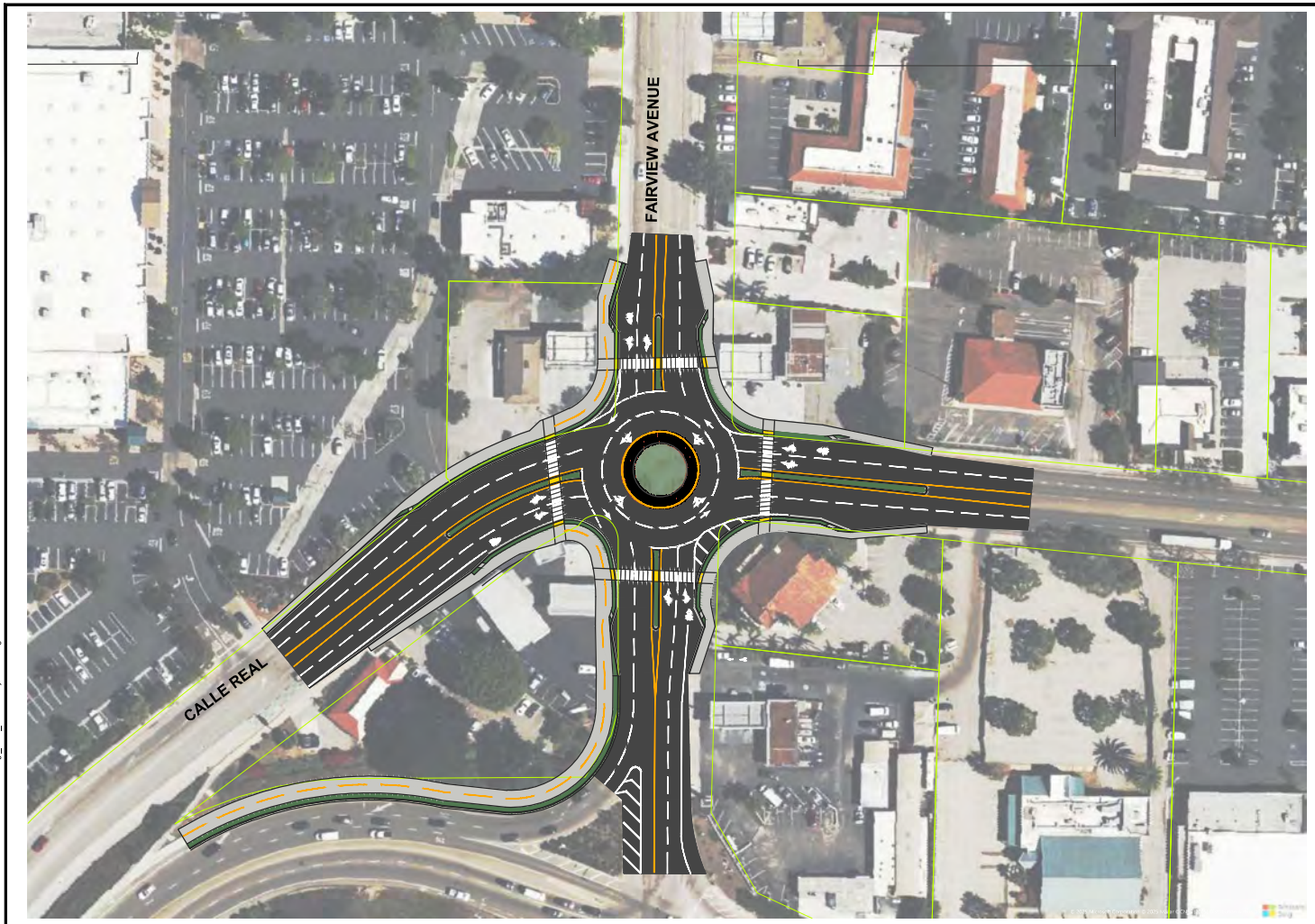
Notes

1. Widen Calle Real to the south to construct a right turn lane onto southbound Fairview Ave. See cross section A-A.
2. Widen Fairview Ave to the east to construct right turn lane onto eastbound Calle Real. See cross section A-A.
3. Add Class I path on west and bicycle lanes on both sides of Fairview Ave. Remove sidewalk on west side of Fairview Ave south of Calle Real.



Cross Section A-A

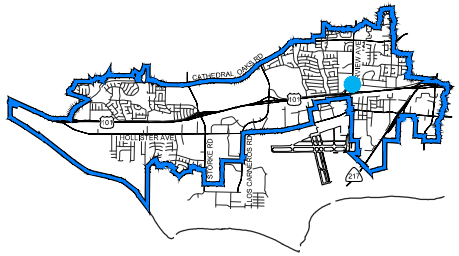
MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com



50' 0' 50' 100'
1 inch = 100 ft.

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-01: Fairview Avenue and Calle Real Roundabout



MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-01.dwg
Wed, 04 Feb 26, 10:59:44 AM

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-02 Fairview Avenue at US 101 Southbound Ramps

Description: Construct additional right-turn lane from Fairview Avenue NB to US 101 SB on-ramp.
- Construct pork chop island with pedestrian/bike activated signal at the SB on-ramp.
- Widen US 101 SB on-ramp to three lanes to allow free right onto on-ramp.
- Provide Class I facility on west side of roadway/bridge from Hollister to ramps.
- Existing Class II bike lane NB will remain on the east shoulder of Fairview Avenue.

Scope: Demolition; pavement widening; pavement delineation and slurry seal; railroad overhead widening (bridge); retaining wall; guard railing; traffic signal modifications, railroad coordination.

Limits: Intersection, Fairview Avenue south leg and US 101 on-ramp.

Estimate Type: Planning (Caltrans) Estimate Date: 20-Jan-26

Working Days: 240

		Current Year Costs		Section	
Earthwork	$	847,600	+	1	
Pavement Structural Section	$	659,400	+	2	
Drainage	$	-	+	3	
Specialty Items	$	2,132,700	+	4	
Environmental	$	200,000	+	5	
Traffic Items	$	920,000	+	6	
Minor Items	$	761,600	+	7	
Roadway Mobilization	$	552,200	+	8	
Roadway Contingency	$	1,822,100	+	9	
TOTAL ROADWAY COST	$	7,895,600	=		
TOTAL STRUCTURES COST	$	6,205,100	+	10	
TOTAL CONSTRUCTION COST	**$**	**14,101,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**4,950,000**	=	11	
Management Support	$	1,410,100	+	10%	of Construction Costs
PA&ED Support	$	1,410,100	+	10%	
PS&E Support	$	2,115,200	+	15%	
Right of Way Support	$	282,100	+	2%	
Construction Support	$	2,256,200	+	16%	
Support Contingency	$	2,242,200	+	30%	of Support Costs
TOTAL SUPPORT COST	**$**	**9,716,000**	=		

Total Estimated Project Costs: $ 28,800,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-02 Fairview Avenue at US 101 Southbound Ramps

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	443	x	228.81	= $	101,363	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	919	x	40.00	= $	36,760	3
Structure Excavation (Retaining Wall)	CY	1,087	x	300.00	= $	326,100	4
Structure Backfill (Retaining Wall)	CY	795	x	325.00	= $	258,375	5
Clearing & Grubbing	LS	1	x	125,000	= $	125,000	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**847,600**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	347	x	418.28	= $	145,143	6
Class 2 Aggregate Base	CY	266	x	295.45	= $	78,590	7
Slurry Seal	TN	19	x	3,507.95	= $	66,651	8
Minor Concrete (Miscellaneous Construction)	CY	259	x	1,424.58	= $	368,966	15
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**659,400**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF	652	x	22.04	= $	14,370	9
Chain Link Fence	LF	248	x	75.00	= $	18,600	10
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF	900	x	214.48	= $	193,032	11
Structural Concrete, Retaining Wall	CY	1,700	x	1,121.58	= $	1,906,686	12
				TOTAL SPECIALTY ITEMS		**$**	**2,132,700**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-02 Fairview Avenue at US 101 Southbound Ramps

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	80,000	= $	80,000	
Irrigation System	LS	1	x	40,000	= $	40,000	
Plant Establishment Work	LS	1	x	30,000	= $	30,000	
Implement Erosion Control	LS	1	x	25,000	= $	25,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	25,000	= $	25,000	
				TOTAL ENVIRONMENTAL		**$ 200,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	900,000	= $	900,000	13
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	20,000	= $	20,000	
				TOTAL TRAFFIC ITEMS		**$ 920,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	237,985	
Stage Construction and Traffic Handling				5.0%	$	237,985	
ADA Items				1.0%	$	47,597	
Other Minor Items				5.0%	$	237,985	
Total of Section 1-6	$	4,759,700	x	16.0%	= $	761,552	
				TOTAL MINOR ITEMS		**$ 761,600**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	5,521,300	x	10%	= $	552,130	
				TOTAL MOBILIZATION		**$ 552,200**	

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	6,073,500	x	30%	= $	1,822,050	
				TOTAL CONTINGENCY		**$ 1,822,100**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-02 Fairview Avenue at US 101 Southbound Ramps

SECTION 10: STRUCTURES ITEMS

Name / ID	UPRR OH	xxxxxxxxx	xxxxxxxxx
Structure Type	PC/PS I	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	32 LF	0 LF	0 LF
Total Bridge Length	113 LF	0 LF	0 LF
Total Area (Square Feet)	3616 SQFT	0 SQFT	0 SQFT
Complexity	7	5	5
Unusual Features	6	0	0
Cost Per Square Foot	$1,200	$0	$0
COST OF EACH BRIDGE	$ 4,339,200	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	4,339,200
Structures Mobilization Percentage	10%	$	433,920
Structures Contingency Percentage	30%	$	1,431,936
TOTAL COST OF STRUCTURES		**$**	**6,205,100**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	9,000	x	250.00	=	$	2,250,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS	1	x	750,000	=	$	750,000	14
Railroad - Flaggers	LS	1	x	300,000	=	$	300,000	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	50%	x	3,300,000	=	$	1,650,000	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**4,950,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-02 Fairview Avenue at US 101 Southbound Ramps

NOTES AND CALCULATIONS

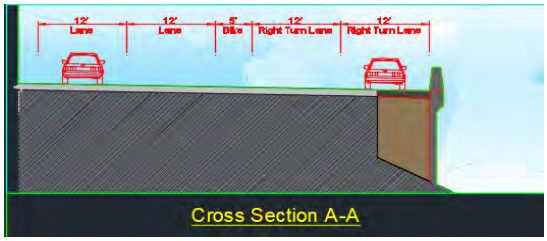
NOTE NO. 1

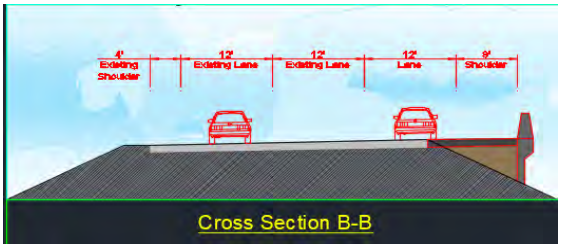
Roadway excavation area (from CAD)
7183 SF Widenings
Depth
1.67 feet
Volume = (Sum of Areas) * Depth
11972 CF
443 CY

RESULT NO. 1 **443**

NOTE NO. 2

Images show worst case. This case is carried out along entire wall length.





Length	115	feet	Length	652	feet
Structure Excavation	38	SF	Structure Excavation	38	SF
Structure Backfill	28	SF	Structure Backfill	28	SF
Import Borrow	74	SF	Import Borrow	25	SF
Retaining Wall	43.54	SF	Retaining Wall	36.41	SF

RESULT NO. 2 **Information Only**

NOTE NO. 3

Import borrow (See note 2)

Cross Section A-A
74 SF
Length
115 feet
Volume = area * length
8,510 CF
315 CY

Cross Section B-B
25 SF
Length
652 feet
Volume = area * length
16,300 CF
604 CY

RESULT NO. 3 **919**

NOTE NO. 4

Structure Ex (See note 2)

Cross Section A-A		Cross Section B-B			
38	SF	38	SF		
Length		Length			
115	feet	652	feet		
Volume = area * length		Volume = area * length			
4,399	CF	24,939	CF		
163	CY	924	CY	**RESULT NO. 4**	**1,087**

NOTE NO. 5

Structure Backfill (See note 2)

Cross Section A-A		Cross Section B-B			
28	SF	28	SF		
Length		Length			
115	feet	652	feet		
Volume = area * length		Volume = area * length			
3,220	CF	18,256	CF		
119	CY	676	CY	**RESULT NO. 5**	**795**

NOTE NO. 6

AC Pavement

Widening Area (from CAD)

7183 SF

Depth

0.67 feet

Tonnage = Area * Depth * 145lbs/CF / 2000lbs/ton

347 ton **RESULT NO. 6** **347**

NOTE NO. 7

Aggregate base

Area (from CAD)

7183 SF Widenings

Depth

1.00 feet

Volume = (Sum of Areas) * Depth

7183 CF

266 CY **RESULT NO. 7** **266**

NOTE NO. 8

Slurry seal

Area (from CAD) 28643.43 SF

Tonnage = area / 1500SF/TN 19.1 TN **RESULT NO. 8** **19**

NOTE NO. 9

Remove guard rail along ramp. Length equal to wall in Cross Section B-B (See Note 2)

RESULT NO. 9 **652**

NOTE NO. 10

Chain Link Fence along Fairview

On Structure 133 ft

On Wall A-A 115 ft **RESULT NO. 10** **248**

NOTE NO. 11

Concrete Barrier on Walls and Structure

On Structure	133	ft
On Wall A-A	115	ft
On Wall B-B	652	ft

RESULT NO. 11 **900**

NOTE NO. 12

Structural Concrete

Cross Section A-A		Cross Section B-B	
47	SF	36	SF
Length		Length	
115	feet	652	feet
Volume = area * length		Volume = area * length	
5,352	CF	23,739	CF
198	CY	879	CY

Wall on westside for bike path widening

Cross Section		
28	SF	
Length		
600	feet	
Volume = area * length		
16,800	CF	
622	CY	

TOTAL

1,700 CY

RESULT NO. 12 **1,700**

NOTE NO. 13

Traffic signal

2 x $450,000 Modifications

RESULT NO. 13 **$ 900,000**

NOTE NO. 14

UPRR TCE components

Engineering, permitting, fees, miscellaneous items

$250,000

TCE acquisition costs

$250,000

RESULT NO. 14 **$ 500,000**

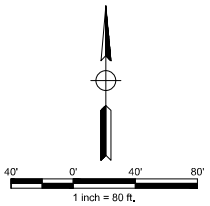
NOTE NO. 15

Bike Path Pavement

Width		
14	FT	
Length		
1,000	FT	
Depth		
0.50	FT	
Volume		
7000	CF	
259	CY	

RESULT NO. 15 **$ 259**



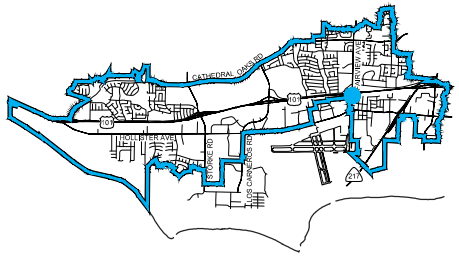


C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-02.dwg

Fri 23 Jan 26 01:17:07 PM

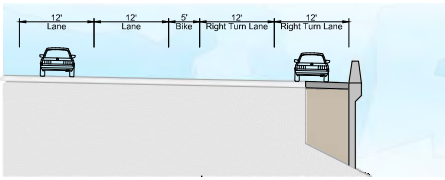
GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-02: Fairview Ave & SB Hwy 101 Operational Improvements

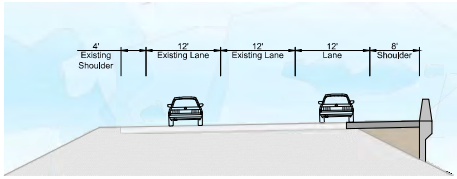


NOTES

1. Widen Fairview Ave to the east to include an additional right turn lane onto southbound on-ramp. See cross section A-A.
2. Widen railroad over crossing to accommodate additional turning lane.
3. Widen southbound on-ramp to receive additional turning lane.



Cross Section A-A



Cross Section B-B

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-07 Hollister Avenue at Storke Road and Glen Annie Road

Description: • Widen Hollister Avenue to the north and install a new lane between Storke and Glenn Annie to allow a free right from Storke Road SB onto Hollister Avenue WB.

Scope: Demolition; pavement widening; concrete curb, gutter, sidewalk, etc.; pavement delineation; right of way.

Limits: North side of Hollister Avenue between Storke Road and Glen Annie Road.

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 50

		Current Year Costs		Section	
Earthwork	$	228,000	+	1	
Pavement Structural Section	$	447,800	+	2	
Drainage	$	245,300	+	3	
Specialty Items	$	-	+	4	
Environmental	$	100,000	+	5	
Traffic Items	$	30,000	+	6	
Minor Items	$	126,200	+	7	
Roadway Mobilization	$	117,800	+	8	
Roadway Contingency	$	259,100	+	9	
TOTAL ROADWAY COST	$	1,554,200	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**1,554,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**1,071,000**	=	11	
Management Support	$	155,400	+	10%	of Construction Costs
PA&ED Support	$	155,400	+	10%	
PS&E Support	$	233,100	+	15%	
Right of Way Support	$	31,100	+	2%	
Construction Support	$	248,700	+	16%	
Support Contingency	$	164,800	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**989,000**	=		

Total Estimated Project Costs: $ 3,620,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-07 Hollister Avenue at Storke Road and Glen Annie Road

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	956	x	160.00	= $	152,960	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY		x		= $	-	
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	75,000	= $	75,000	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**228,000**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	400	x	418.28	= $	167,312	2
Class 2 Aggregate Base	CY	307	x	295.45	= $	90,703	3
Slurry Seal	TN	5	x	3,507.95	= $	17,540	8
Minor Concrete (Miscellaneous Construction)	CY	142	x	1,212.77	= $	172,213	4
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**447,800**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	7	x	2,900.00	= $	20,300	5
Reinforced Concrete Pipe	LF	600	x	375.00	= $	225,000	6
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**245,300**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-07 Hollister Avenue at Storke Road and Glen Annie Road

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	40,000	= $	40,000	
Irrigation System	LS	1	x	15,000	= $	15,000	
Plant Establishment Work	LS	1	x	10,000	= $	10,000	
Implement Erosion Control	LS	1	x	15,000	= $	15,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	20,000	= $	20,000	
				TOTAL ENVIRONMENTAL		**$ 100,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	30,000	= $	30,000	
				TOTAL TRAFFIC ITEMS		**$ 30,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				10.0%	$	105,110	
Stage Construction and Traffic Handling					$	-	
ADA Items				2.0%	$	21,022	
Other Minor Items					$	-	
Total of Section 1-6	$	1,051,100	x	12.0%	= $	126,132	
				TOTAL MINOR ITEMS		**$ 126,200**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	1,177,300	x	10%	= $	117,730	
				TOTAL MOBILIZATION		**$ 117,800**	

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	1,295,100	x	20%	= $	259,020	
				TOTAL CONTINGENCY		**$ 259,100**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-07 Hollister Avenue at Storke Road and Glen Annie Road

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	3,250	x	250.00	=	$	812,500	7
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS	1	x	80,000.00	=	$	80,000	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	892,500	=	$	178,500	
TOTAL RIGHT OF WAY ESTIMATE							**$**	**1,071,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-07 Hollister Avenue at Storke Road and Glen Annie Road

NOTES AND CALCULATIONS

NOTE NO. 1

Roadway excavation area (from CAD)

8280	SF	Widening
7210	SF	Sidewalks

Depth

1.67	feet

Volume = (Sum of Areas) * Depth

25817	CF
956	CY

RESULT NO. 1 **956**

NOTE NO. 2

AC Pavement area (from CAD)

8280	SF

Depth

0.67	feet

Tonnage = Area * Depth * 145lbs/CF / 2000lbs/ton

400	ton

RESULT NO. 2 **400**

NOTE NO. 3

Aggregate base area (from CAD)

8280	SF	Widenings

Depth

1.00	feet

Volume = (Sum of Areas) * Depth

8280	CF
307	CY

RESULT NO. 3 **307**

NOTE NO. 4

Minor concrete (miscellaneous construction)

<u>Concrete Sidewalks</u>

Sidewalk area (from CAD)

7210	SF

Depth

0.33	feet

Volume = Area * Depth

2403	CF
89	CY

<u>Concrete Curb and Gutter Type A2-6 per Caltrans</u>

Volume / foot

0.05903	CY/foot

Length

895	feet

Volume = length * volume / foot

53	CY

RESULT NO. 4 **142**

NOTE NO. 5

Minor concrete (minor structure)

5.71	CY for H=3' plus	Per Caltrans Standard Plans OL21 Vol
0.278	CY/foot for each additional foot of height	
7	CY	

RESULT NO. 5 **7**

NOTE NO. 6

Reinforced concrete pipe

600	feet	between Glen Annie and Storke

RESULT NO. 6 **600**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-07 Hollister Avenue at Storke Road and Glen Annie Road

NOTES AND CALCULATIONS

NOTE NO. 7

RoW acquisition

Area 3250 SF strip needed for widening

RESULT NO. 7 **3250**



NOTE NO. 8

Slurry seal area (CAD)

7820 feet

Coverage rate (Caltrans)

1500 SF/ton

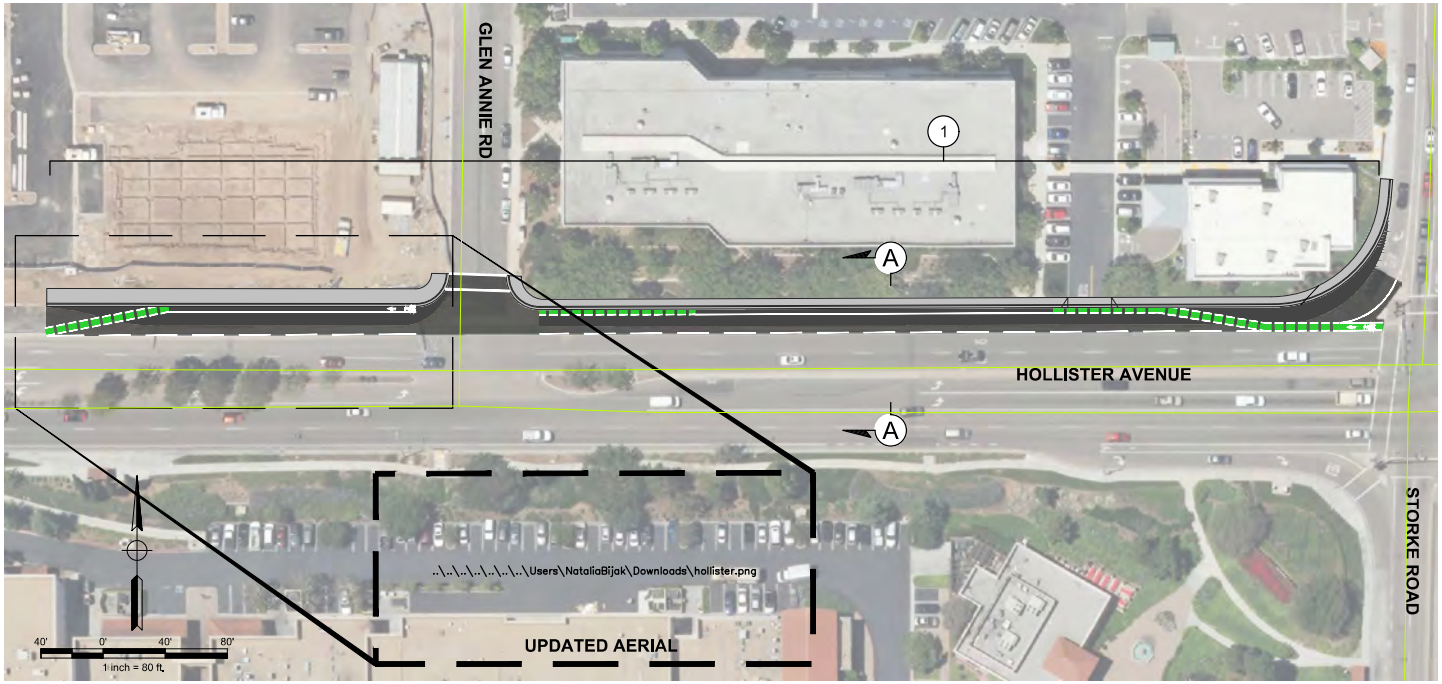
Tonnage = area / coverage rate

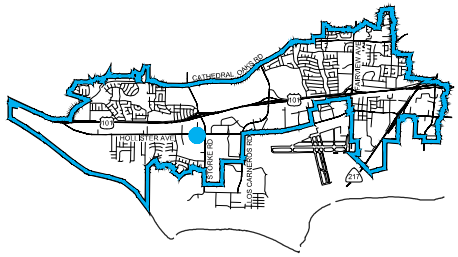
5 TN

RESULT NO. 8 **5**

GOLETA TRANSPORTATION
IMPROVEMENTS PROGRAM

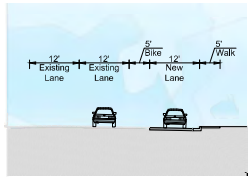
Project I-07: Hollister Avenue at Storke Road and Glen Annie Road





NOTES

(1) Widen Hollister Avenue to accommodate a free right turn lane from southbound Storke Road onto westbound Hollister Avenue. See cross section A-A.



Cross Section A-A

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-07.dwg
Thu 23.Oct.25 12:13:34 PM

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-08 Patterson Avenue at US 101 Southbound Ramps

Description:
- Add second left turn lane from Patterson Avenue SB to US 101 SB on-ramp.
- Widen US 101 overcrossing on the east side to accommodate the new lane.
- Widen US 101 SB on-ramp as necessary to accommodate three lanes.
- Widen UPRR overhead to accommodate bike lane and SB double left turn lanes.
- Construct pork chop island at the US 101 SB on-ramp.
- Construct pedestrian/bike activated signal at the new pork chop island.
- Widen US 101 SB on-ramp bridge at Atascadero Creek to accommodate new lane.
- Widen shoulder of US 101 NB off ramp to accommodate three lanes.

Scope: Demolition; pavement widening; overcrossing and bridge widening; traffic signals; pavement delineation and slurry seal; railroad coordination.

Limits: Intersection, Patterson Avenue north and south and US 101 on-ramp.

Estimate Type: Planning (Caltrans) Estimate Date: 15-Jan-26

Working Days: 300

		Current Year Costs		Section		
Earthwork	$	1,953,100	+	1		
Pavement Structural Section	$	599,000	+	2		
Drainage	$	-	+	3		
Specialty Items	$	2,371,200	+	4		
Environmental	$	105,000	+	5		
Traffic Items	$	470,000	+	6		
Minor Items	$	659,800	+	7		
Roadway Mobilization	$	615,900	+	8		
Roadway Contingency	$	2,032,200	+	9		
TOTAL ROADWAY COST	$	8,806,200	=			
TOTAL STRUCTURES COST	$	16,713,800	+	10		
TOTAL CONSTRUCTION COST	**$**	**25,520,000**	=			
TOTAL RIGHT OF WAY COST	**$**	**1,300,000**	=	11		
Management Support	$	2,552,000	+	10%		
PA&ED Support	$	2,552,000	+	10%		
PS&E Support	$	3,828,000	+	15%		of Construction Costs
Right of Way Support	$	510,400	+	2%		
Construction Support	$	4,083,200	+	16%		
Support Contingency	$	4,057,700	+	30%		of Support Costs
TOTAL SUPPORT COST	**$**	**17,584,000**	=			

Total Estimated Project Costs: $ 44,450,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-08 Patterson Avenue at US 101 Southbound Ramps

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	1,298	x	160.00	= $	207,680	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	1,211	x	40.00	= $	48,440	3
Structure Excavation (Retaining Wall)	CY	1,853	x	300.00	= $	555,900	4
Structure Backfill (Retaining Wall)	CY	1,357	x	325.00	= $	441,025	5
Clearing & Grubbing	LS	1	x	700,000	= $	700,000	12
				TOTAL EARTHWORK SECTION ITEMS		**$ 1,953,100**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	885	x	237.97	= $	210,603	6
Class 2 Aggregate Base	CY	678	x	295.45	= $	200,315	7
Slurry Seal	TN	40	x	2,700.00	= $	108,000	8
Minor Concrete (Miscellaneous Construction)	CY	66	x	1,212.77	= $	80,043	9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 599,000**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ -**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF	520	x	162.00	= $	84,240	13
Remove Metal Beam Guard Railing	LF	1,350	x	14.73	= $	19,886	14
Chain Link Fence	LF	850	x	60.00	= $	51,000	15
Midwest Guardrail System (Wood Post)	LF	1,350	x	50.50	= $	68,175	16
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF	520	x	325.82	= $	169,426	17
Structural Concrete, Retaining Wall	CY	1,764	x	1,121.58	= $	1,978,467	10
				TOTAL SPECIALTY ITEMS		**$ 2,371,200**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-08 Patterson Avenue at US 101 Southbound Ramps

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	40,000	= $	40,000	
Irrigation System	LS	1	x	15,000	= $	15,000	
Plant Establishment Work	LS	1	x	10,000	= $	10,000	
Implement Erosion Control	LS	1	x	15,000	= $	15,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	25,000	= $	25,000	
				TOTAL ENVIRONMENTAL		**$ 105,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	350,000	= $	350,000	11
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	20,000	= $	20,000	
				TOTAL TRAFFIC ITEMS		**$ 470,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				4.0%	$	219,932	
Stage Construction and Traffic Handling				4.0%	$	219,932	
ADA Items				1.0%	$	54,983	
Other Minor Items				3.0%	$	164,949	
Total of Section 1-6	$	5,498,300	x	12.0%	= $	659,796	
				TOTAL MINOR ITEMS		**$ 659,800**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	6,158,100	x	10%	= $	615,810	
				TOTAL MOBILIZATION		**$ 615,900**	

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	6,774,000	x	30%	= $	2,032,200	
				TOTAL CONTINGENCY		**$ 2,032,200**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-08 Patterson Avenue at US 101 Southbound Ramps

SECTION 10: STRUCTURES ITEMS

Name / ID	Overcrossing Widening	Overhead Widening	Creek Widening
Structure Type	CIP/PS Box	PC/PS I	RC Box
Width (Feet) [out to out]	20 LF	25 LF	12 LF
Total Bridge Length	210 LF	140 LF	170 LF
Total Area (Square Feet)	4200 SQFT	3500 SQFT	2040 SQFT
Complexity	7	7	7
Unusual Features	3	3	3
Cost Per Square Foot	$1,200	$1,200	$1,200
COST OF EACH BRIDGE	$ 5,040,000	$ 4,200,000	$ 2,448,000

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	11,688,000
Structures Mobilization Percentage	10%	$	1,168,800
Structures Contingency Percentage	30%	$	3,857,040
TOTAL COST OF STRUCTURES		**$**	**16,713,800**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS	1	x	500,000	=	$	500,000	
Railroad - Flaggers	LS	1	x	500,000	=	$	500,000	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	30%	x	1,000,000	=	$	300,000	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**1,300,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-08 Patterson Avenue at US 101 Southbound Ramps

NOTES AND CALCULATIONS

NOTE NO. 1

Roadway excavation area (from CAD)

18300	SF	Widenings
2730	SF	Sidewalks

Depth

1.67 feet

Volume = (Sum of Areas) * Depth

35050 CF

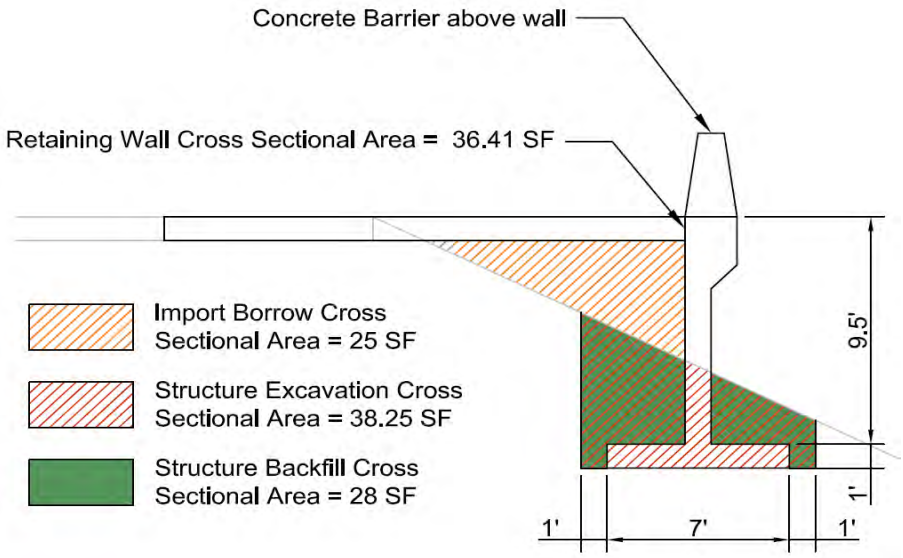
1298 CY

RESULT NO. 1 **1298**

NOTE NO. 2

Retaining Wall

Image shows worst case. This case is carried out along entire wall length.



Total Wall Lengths

North of Overcrossing	
72	feet
South of Overcrossing	
46	feet
South of Overhead	
238	feet
South of ramp	
844	feet
East of Creek	
109	feet

Total

1308 feet

RESULT NO. 2 **Information Only**

NOTE NO. 3

Imported Borrow

Area (from CAD)

25 SF

Length

1308 feet

Volume = Area * Length

32703 CF

1211 CY

RESULT NO. 3 **1211**

NOTE NO. 4

Structure Excavation

Area (from CAD)

38 SF

Length of Wall

1308 feet

Volume = Area * Length

50036 CF

1853 CY

RESULT NO. 4 **1853**

I-08 Patterson Avenue at US 101 Southbound Ramps

NOTES AND CALCULATIONS

NOTE NO. 5

Structure Backfill
Cross Sectional Area
28 SF
Length of Wall
1308 feet
Volume = Area * Length
36627 CF
1357 CY

RESULT NO. 5 **1357**

NOTE NO. 6

AC Pavement
Widening Area (from CAD)
18300 SF
Depth
0.67 feet
Tonnage = Area * Depth * 145lbs/CF / 2000lbs/ton
885 ton

RESULT NO. 6 **885**

NOTE NO. 7

Aggregate base
Area (from CAD)
18300 SF Widenings
Depth
1.00 feet
Volume = (Sum of Areas) * Depth
18300 CF
678 CY

RESULT NO. 7 **678**

NOTE NO. 8

Slurry seal

	Ramp	Patterson
Length	1100 feet	600 feet
Width	30 feet	45 feet
Area	33000 SF	27000 SF
Tonnage = area / 1500SF/TN	22 TN	18 TN

RESULT NO. 8 **40**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-08 Patterson Avenue at US 101 Southbound Ramps

NOTES AND CALCULATIONS

NOTE NO. 9

Concrete Sidewalks

Sidewalks Plan Area (from CAD)
2730 SF

Depth
0.33 feet

Volume = Area * Depth
910 CF
34 CY

Concrete Curb and Gutter Type A2-6 per Caltrans

Volume / foot
0.05903 CY/foot

Length

110	feet	North of Overcrossing
46	feet	South of Overcrossing
257	feet	South of Overhead
54	feet	North of Overhead
75	feet	Pork chop Island

Volume = length * volume / foot
32 CY

RESULT NO. 9 **66**

NOTE NO. 10

Retaining Wall Cross Sectional Area (from CAD)
36 SF

Length
1308 FT

Volume = Area * Length
47629 CF
1764 CY

RESULT NO. 10 **1764**

NOTE NO. 11

Traffic signal

1	x	$350,000	Modifications	**RESULT NO. 11**	**$ 350,000**

NOTE NO. 12

Clearing and grubbing

1	x	$200,000	General	**RESULT NO. 12**	**$ 700,000**
1	x	$150,000	Overcrossing demolition		
1	x	$200,000	Overhead demolition		
1	x	$150,000	Bridge demolition		

NOTE NO. 13

Remove concrete barrier

140	LF	Overhead		
210	LF	Overcrossing		
170	LF	Bridge	**RESULT NO. 13**	**520**

NOTE NO. 14

Remove MGR

450	feet	US 101 SB on-ramp		
500	feet	US 101 SB on-ramp		
100	feet	Bridge aprroach		
300	feet	Overhead approach	**RESULT NO. 14**	**1350**

NOTE NO. 15

Chain link fence

850	LF	**RESULT NO. 15**	**850**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-08 Patterson Avenue at US 101 Southbound Ramps

NOTES AND CALCULATIONS

NOTE NO. 16

Midwest Guardrail System (Wood Post)

450	feet	US 101 SB on-ramp		
500	feet	US 101 SB on-ramp		
100	feet	Bridge aprroach		
300	feet	Overhead approach	**RESULT NO. 16**	**1350**

NOTE NO. 17

Concrete barrier

140	LF	Overhead		
210	LF	Overcrossing		
170	LF	Bridge	**RESULT NO. 17**	**520**

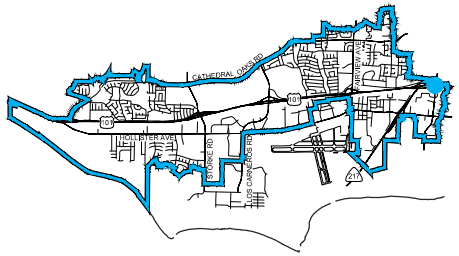


C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-08.dwg

Wed 14 Jan 26 09:48:56 AM

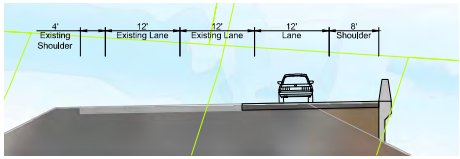
GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-08: Patterson Ave at US 101 Southbound Ramps



Notes

1. Widen Patterson Ave to the east to include an additional left turn lane from southbound Patterson Ave onto southbound ramp.
2. Widen freeway over crossing to accommodate additional left turn lane.
3. Widen Patterson Ave to the east to include an additional right turn lane from northbound Patterson onto southbound on-ramp.
4. Widen railroad over crossing to accommodate additional right turn lane.
5. Widen Patterson Ave southbound on-ramp to receive new turning lanes. See cross section A-A.
6. Widen structure over Maria Ygnacio Creek to accommodate ramp widening.



Cross Section A-A

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-10 Hollister Avenue at Patterson Avenue

Description:
- Construct Hollister Avenue WB free right turn lane onto Patterson Avenue NB.
- Construct Hollister Avenue EB free right turn lane onto Patterson Avenue SB.
- Widen Hollister Avenue on north side to accommodate the new WB free right turn lane.
- Widen Hollister Avenue on south side to accommodate the new EB free right turn lane.
- Install a new signal at the Hollister Avenue/Patterson Avenue intersection.
- Relocate power lines as needed.

Scope: Demolition; pavement widening; concrete curb, gutter, sidewalk, etc.; drainage system modification; pavement delineation; right of way.

Limits: Hollister Avenue east of intersection.

Estimate Type: Planning (City) Estimate Date: 4-Feb-26

Working Days: 100

		Current Year Costs		Section	
Earthwork	$	126,200	+	1	
Pavement Structural Section	$	514,500	+	2	
Drainage	$	34,900	+	3	
Specialty Items	$	-	+	4	
Environmental	$	50,000	+	5	
Traffic Items	$	465,000	+	6	
Minor Items	$	166,700	+	7	
Roadway Mobilization	$	135,800	+	8	
Roadway Contingency	$	298,700	+	9	
TOTAL ROADWAY COST	$	1,791,800	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**1,792,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**660,000**	=	11	
Management Support	$	179,200	+	10%	of Construction Costs
PA&ED Support	$	179,200	+	10%	
PS&E Support	$	268,800	+	15%	
Right of Way Support	$	35,900	+	2%	
Construction Support	$	286,800	+	16%	
Support Contingency	$	190,000	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**1,140,000**	=		

Total Estimated Project Costs: $ 3,600,000 ✗ **Check Status**

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-10 Hollister Avenue at Patterson Avenue

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	420	x	228.81	= $	96,100	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY		x		= $	-	
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	30,000	= $	30,000	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**126,200**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	222	x	418.28	= $	92,858	2
Class 2 Aggregate Base	CY	170	x	295.45	= $	50,227	3
Slurry Seal	TN	85	x	2,700.00	= $	229,500	9
Minor Concrete (Miscellaneous Construction)	CY	117	x	1,212.77	= $	141,894	4
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**514,500**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	2	x	2,900.00	= $	5,800	6
Reinforced Concrete Pipe	LF	60	x	485.00	= $	29,100	7
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**34,900**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-10 Hollister Avenue at Patterson Avenue

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	20,000	= $	20,000	
Irrigation System	LS	1	x	10,000	= $	10,000	
Plant Establishment Work	LS	1	x	5,000	= $	5,000	
Implement Erosion Control	LS	1	x	5,000	= $	5,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	10,000	= $	10,000	
				TOTAL ENVIRONMENTAL		**$ 50,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	350,000	= $	350,000	10
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	15,000	= $	15,000	
				TOTAL TRAFFIC ITEMS		**$ 465,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				7.0%	$	83,342	
Stage Construction and Traffic Handling					$	-	
ADA Items				2.0%	$	23,812	
Other Minor Items				5.0%	$	59,530	
Total of Section 1-6	$	1,190,600	x	14.0%	= $	166,684	
				TOTAL MINOR ITEMS		**$ 166,700**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	1,357,300	x	10%	= $	135,730	
				TOTAL MOBILIZATION		**$ 135,800**	

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	1,493,100	x	20%	= $	298,620	
				TOTAL CONTINGENCY		**$ 298,700**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-10 Hollister Avenue at Patterson Avenue

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	2,200	x	250.00	=	$	550,000	8
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	550,000	=	$	110,000	
TOTAL RIGHT OF WAY ESTIMATE						**$**		**660,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-10 Hollister Avenue at Patterson Avenue

NOTES AND CALCULATIONS

NOTE NO. 1

Roadway excavation area (from CAD)

2300 SF New Pavement
1100 SF Sidewalks

Depth

1.67 feet

Volume = (Sum of Areas) * Depth

5667 CF

Scope factor. CAD is for WB/NB only. Double to include EB/SB.

2 x

420 CY **RESULT NO. 1** **420**

NOTE NO. 2

AC Pavement

New Pavement

2300 SF

Depth

0.67 feet

Scope factor. CAD is for WB/NB only. Double to include EB/SB.

2 x

Tonnage = Area * Depth * 145lbs/CF / 2000lbs/ton

222 ton **RESULT NO. 2** **222**

NOTE NO. 3

Aggregate base

Area (from CAD)

2300 SF New Pavement

Depth

1.00 feet

Volume = (Sum of Areas) * Depth

2300 CF

Scope factor. CAD is for WB/NB only. Double to include EB/SB.

2 x

170 CY **RESULT NO. 3** **170**

NOTE NO. 4

<u>Concrete Sidewalks</u>

Sidewalks Plan Area (from CAD)

1100 SF

Depth

0.33 feet

Volume = Area * Depth

367 CF

<u>Concrete Curb and Gutter Type A2-6 per Caltrans</u>

Volume / foot

0.05903 CY/foot

Length

210 feet Northerly curb
555 feet Median curb

Volume = length * volume / foot

Scope factor. CAD is for WB/NB only. Double to include EB/SB.

2 x 2 x

27 CY 90 CY

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-10 Hollister Avenue at Patterson Avenue

NOTES AND CALCULATIONS

RESULT NO. 4 **117**

NOTE NO. 5

Drainage Impacts

Red Remove curb inlet located on north side of Hollister
Remove pipe connecting this structure to the curb inlet on the east side of Patterson

Blue New curb inlet on the north side of widened Hollister
New pipe connecting new structure and the existing structure on the east side of Patterson



RESULT NO. 5 **Notes 6&7 Info**

NOTE NO. 6

Drainage System Needed (shown in Note 5)

Curb Inlets Type OS (H=6'), cast in place per Caltrans standard plans:

Concrete / Structure

1.53	CY	for H = 3'
0.278	CY	per each additional foot
2.364	CY	EA

RESULT NO. 6 **2**

NOTE NO. 7

Assumed Drainage System Needed shown in Note 5.

Reinforced Concrete Pipe Length 60 feet

RESULT NO. 7 **60**

NOTE NO. 8

Acquisition - Commercial Property

Scope factor. CAD is for WB/NE

2 x

2200 SF



RESULT NO. 8 **2,200**

NOTE NO. 9

Slurry seal

Area (from CAD)

63600 SF

Coverage rate (Caltrans)

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-10 Hollister Avenue at Patterson Avenue

NOTES AND CALCULATIONS

1500 SF/ton

Scope factor. CAD is for WB/NB only. Double to include EB/SB.

2 x

Tonnage = area / coverage rate

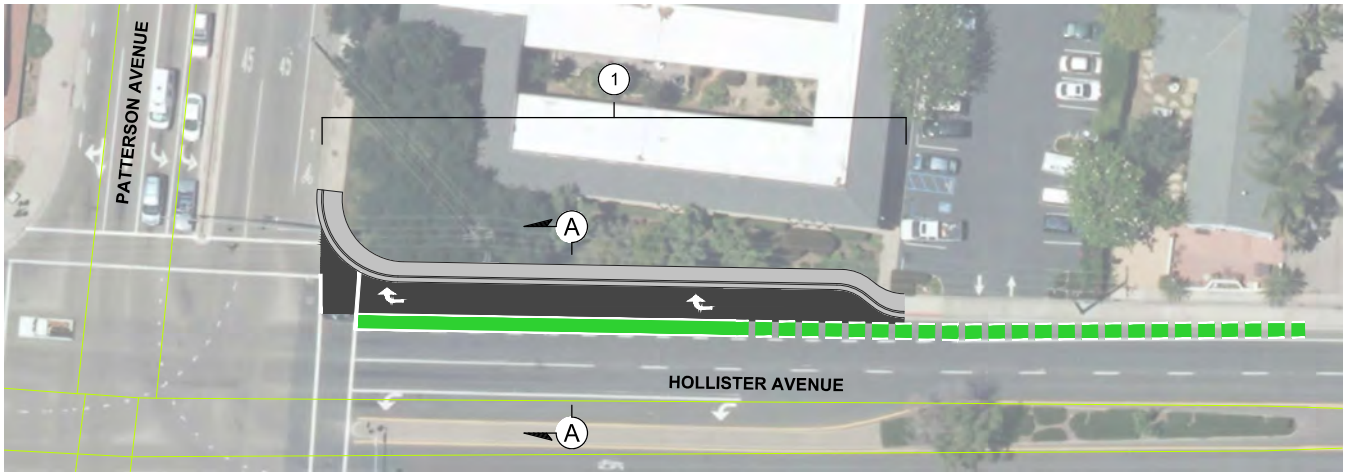
85 TN

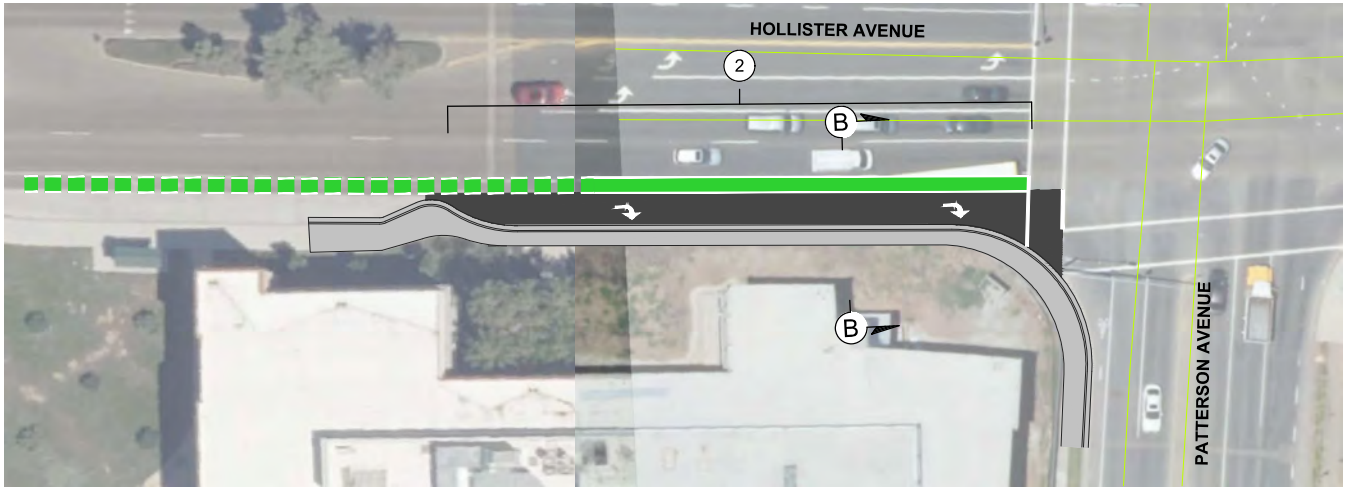
RESULT NO. 9 **85**

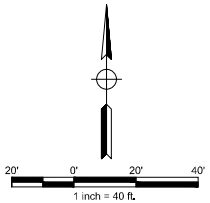
NOTE NO. 10

Traffic signal

1x $350,000 Modifications **RESULT NO. 10** **$ 350,000**

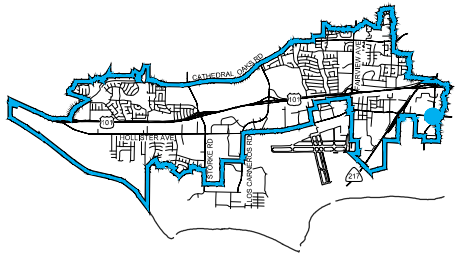






GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

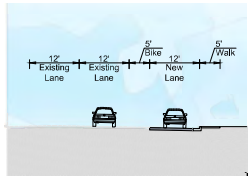
Project I-10: **Hollister Avenue at Patterson Avenue**



Notes

1. Widen Hollister Ave to the north to accommodate a right turn lane from WB Hollister to NB Patterson.

2. Widen Hollister Ave to the south to accommodate a right turn alne from EB Hollister to SB Patterson.



Cross Section A-A

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

Tue 03.Feb.26 08:09:21 AM C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-10.dwg

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 New Intersection Control - Calle Real / Carlo Drive

Description: New traffic signal.

Scope: New traffic signal improvements.

Limits: Intersection of Cathedral Oaks Road and Los Carneros Road

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 60

		Current Year Costs		Section	
Earthwork	$	-	+	1	
Pavement Structural Section	$	-	+	2	
Drainage	$	-	+	3	
Specialty Items	$	-	+	4	
Environmental	$	-	+	5	
Traffic Items	$	561,300	+	6	
Minor Items	$	112,300	+	7	
Roadway Mobilization	$	67,400	+	8	
Roadway Contingency	$	148,200	+	9	
TOTAL ROADWAY COST	$	889,200	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**889,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	88,900	+	10%	of Construction Costs
PA&ED Support	$	88,900	+	10%	
PS&E Support	$	133,400	+	15%	
Right of Way Support	$	17,800	+	2%	
Construction Support	$	142,300	+	16%	
Support Contingency	$	94,300	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**566,000**	=		

Total Estimated Project Costs: $ 1,460,000 ✗ **Check Status**

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 New Intersection Control - Calle Real / Carlo Drive

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY		x		= $	-	
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY		x		= $	-	
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS		x		= $	-	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**-**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN		x		= $	-	
Class 2 Aggregate Base	CY		x		= $	-	
Slurry Seal	TN		x		= $	-	
Minor Concrete (Miscellaneous Construction)	CY		x		= $	-	
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**-**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 New Intersection Control - Calle Real / Carlo Drive

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS		x		= $	-	
Irrigation System	LS		x		= $	-	
Plant Establishment Work	LS		x		= $	-	
Implement Erosion Control	LS		x		= $	-	
Prepare and Implement SWPPP / WPCP	LS		x		= $	-	
					TOTAL ENVIRONMENTAL	**$**	**-**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	431,250	= $	431,250	1
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	30,000	= $	30,000	2
					TOTAL TRAFFIC ITEMS	**$**	**561,300**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	28,065	
Stage Construction and Traffic Handling				5.0%	$	28,065	
ADA Items				5.0%	$	28,065	
Other Minor Items				5.0%	$	28,065	
Total of Section 1-6	$	561,300	x	20.0%	= $	112,260	
				TOTAL MINOR ITEMS		**$**	**112,300**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	673,600	x	10%	= $	67,360	
				TOTAL MOBILIZATION		**$**	**67,400**

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	741,000	x	20%	= $	148,200	
				TOTAL CONTINGENCY		**$**	**148,200**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 New Intersection Control - Calle Real / Carlo Drive

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 New Intersection Control - Calle Real / Carlo Drive

NOTES AND CALCULATIONS

NOTE NO. 1

Signal and Lighting

Scale:	Minor		
Legs:	3		
Cost:	$431,250	**RESULT NO. 1**	$431,250

NOTE NO. 2

Permanent Pavement Delineation

Cost	$30,000	**RESULT NO. 2**	$30,000

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 New Intersection Control - Calle Real / Carlo Drive

Description: New simple single-lane roundabout.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection of Calle Real and Carlo Drive

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 200

		Current Year Costs		Section	
Earthwork	$	769,400	+	1	
Pavement Structural Section	$	889,000	+	2	
Drainage	$	344,700	+	3	
Specialty Items	$	-	+	4	
Environmental	$	185,000	+	5	
Traffic Items	$	310,000	+	6	
Minor Items	$	474,700	+	7	
Roadway Mobilization	$	297,300	+	8	
Roadway Contingency	$	981,100	+	9	
TOTAL ROADWAY COST	$	4,251,200	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**4,251,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**1,500,000**	=	11	
Management Support	$	425,100	+	10%	
PA&ED Support	$	425,100	+	10%	
PS&E Support	$	637,700	+	15%	of Construction Costs
Right of Way Support	$	85,100	+	2%	
Construction Support	$	680,200	+	16%	
Support Contingency	$	450,700	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**2,704,000**	=		

Total Estimated Project Costs: $ 8,500,000 ✖ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 New Intersection Control - Calle Real / Carlo Drive

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	2,674	x	160.00	= $	427,840	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	1,037	x	40.00	= $	41,480	2
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 769,400**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,278	x	237.97	= $	304,126	3
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	4
Slurry Seal	TN	5	x	3,507.95	= $	17,540	6
Minor Concrete (Miscellaneous Construction)	CY	358	x	1,424.58	= $	510,000	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 889,000**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	18	x	2,900.00	= $	52,200	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 344,700**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 New Intersection Control - Calle Real / Carlo Drive

SECTION 5: ENVIRONMENTAL	Unit	Quantity	Unit Price ($)	Cost	Notes
Biological Mitigation	LS	1	x = $	-	
Highway Planting	LS	1	x 100,000 = $	100,000	
Irrigation System	LS	1	x 25,000 = $	25,000	
Plant Establishment Work	LS	1	x 20,000 = $	20,000	
Implement Erosion Control	LS	1	x 20,000 = $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x 20,000 = $	20,000	
			TOTAL ENVIRONMENTAL	**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity	Unit Price ($)	Cost	Notes
Lighting and Sign Illumination	LS	1	x 250,000 = $	250,000	12
Signal and Lighting	LS		x = $	-	
Ramp Metering System	LS		x = $	-	
Interconnection Conduit and Cable	LS		x = $	-	
Furnish and Install Sign Structure	LS		x = $	-	
CIDH Pile (Sign Foundation)	LS		x = $	-	
Remove Sign Structure	LS		x = $	-	
Permanent Pavement Delineation	LS	1	x 60,000 = $	60,000	13
			TOTAL TRAFFIC ITEMS	**$ 310,000**	

SECTION 7: MINOR ITEMS				Notes
Traffic Management Plan and Detours	5.0%	$	124,905	
Stage Construction and Traffic Handling	6.0%	$	149,886	
ADA Items	2.0%	$	49,962	
Other Minor Items	6.0%	$	149,886	
Total of Section 1-6 $ 2,498,100 x	19.0%	= $	474,639	
	TOTAL MINOR ITEMS		**$ 474,700**	

SECTIONS 8: MOBILIZATION				
Total Section 1-7 $ 2,972,800 x	10%	= $	297,280	
	TOTAL MOBILIZATION		**$ 297,300**	

SECTION 9: ROADWAY CONTINGENCY				
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)				
Total Section 1-8 $ 3,270,100 x	30%	= $	981,030	
	TOTAL CONTINGENCY		**$ 981,100**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 New Intersection Control - Calle Real / Carlo Drive

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	5,000	x	250.00	=	$	1,250,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	1,250,000	=	$	250,000	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**1,500,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 New Intersection Control - Calle Real / Carlo Drive

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs
3 legs
250 feet average approach length
200 feet average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)
26,250
Depth of AC
0.75
Depth of base
2.00
Roadway excavation = width * length * depth
72,188
2,674 **RESULT NO. 2** **2,674**

NOTE NO. 3

Import for landscape areas
14,000 SF
Depth
2.00 feet
Volume = width * length * depth
28,000 CF
1,037 CY **RESULT NO. 3** **1,037**

NOTE NO. 4

AC pavement area
3,500 SF
Depth of AC
0.75 feet
Volume = width * length * depth
2,625 CF

AC pavement area (approaches)
30,000
Depth of AC
0.50
Volume = width * length * depth
15,000 CF

Total
17,625 CF * 145 pounds/CF / 2,000 pounds/ton
1,278 TN **RESULT NO. 4** **1,278**

I-12-02 New Intersection Control - Calle Real / Carlo Drive

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
30,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
30,000 CF

35,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 6** **5**

NOTE NO. 7

New sidewalk length
150 feet At roundabout
750 feet Approaches
900 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
3000 CF
111 CY **RESULT NO. 7** **111**

I-12-02 New Intersection Control - Calle Real / Carlo Drive

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands
1200 feet Approaches
1200 feet TOTAL
Volume / foot
0.03 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
31 CY
New Caltrans A2-6 curb and gutter length
400 feet At roundabout
1500 feet Approaches
1900 feet TOTAL
Volume / foot
0.06 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
112 CY **RESULT NO. 8** **143**

NOTE NO. 9

Truck apron and misc
Truck apron (CAD)
2500 SF
Concrete thickness
9 inches
Volume = Minor Concrete (Miscellaneous Construction)
1875 CF
50% Additional for misc
2813 CF
104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg
6 each
Depth of drop inlets
5 feet
Drop inlet volume - Caltrans OL-10
Volume / foot
2.39 CY (3 feet deep)
0.28 CY/each additional foot of depth up to 8 feet
Volume = Minor Concrete (Minor Structure)
18 CY **RESULT NO. 10** **18**

NOTE NO. 11

Estimated length of RCP
1,500 feet **RESULT NO. 11** **1,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 New Intersection Control - Calle Real / Carlo Drive

NOTES AND CALCULATIONS

NOTE NO. 12

New street lights
8 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 360,000
Connection
$ 25,000

RESULT NO. 12 **$ 385,000**

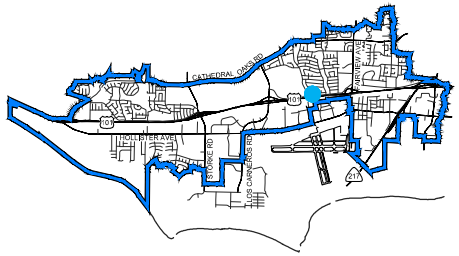
NOTE NO. 13

Pavement delineation and marking
$ 60,000

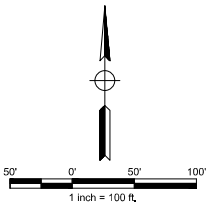
RESULT NO. 13 **60,000**

GOLETA TRANSPORTATION
IMPROVEMENTS PROGRAM

Project I-12-02: Calle Real and Carlo Drive Roundabout







MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

Wed 14 Jan 26 09:48:48 AM C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-12-02.dwg

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 (I4) New Intersection Control - Cathedral Oaks Rd / Hollister Av / 101 NB Ramps

Description: New traffic signal.

Scope: New traffic signal improvements.

Limits: Intersection of Cathedral Oaks Road, Hollister Avenue and US 101 NB Ramps

Estimate Type: Planning (City) Estimate Date: 16-Jan-26

Working Days: 90

		Current Year Costs		Section	
Earthwork	$	-	+	1	
Pavement Structural Section	$	-	+	2	
Drainage	$	-	+	3	
Specialty Items	$	-	+	4	
Environmental	$	-	+	5	
Traffic Items	$	840,000	+	6	
Minor Items	$	168,000	+	7	
Roadway Mobilization	$	100,800	+	8	
Roadway Contingency	$	221,800	+	9	
TOTAL ROADWAY COST	$	1,330,600	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**1,331,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	133,100	+	10%	of Construction Costs
PA&ED Support	$	133,100	+	10%	
PS&E Support	$	199,700	+	15%	
Right of Way Support	$	26,700	+	2%	
Construction Support	$	213,000	+	16%	
Support Contingency	$	141,200	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**847,000**	=		

Total Estimated Project Costs: $ 2,180,000 ✗ **Check Status**

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 (I4) New Intersection Control - Cathedral Oaks Rd / Hollister Av / 101 NB Ramps

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY		x		= $	-	
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY		x		= $	-	
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS		x		= $	-	
				TOTAL EARTHWORK SECTION ITEMS			**$ -**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN		x		= $	-	
Class 2 Aggregate Base	CY		x		= $	-	
Slurry Seal	TN		x		= $	-	
Minor Concrete (Miscellaneous Construction)	CY		x		= $	-	
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS			**$ -**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS			**$ -**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS			**$ -**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 (I4) New Intersection Control - Cathedral Oaks Rd / Hollister Av / 101 NB Ramps

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS		x		= $	-	
Irrigation System	LS		x		= $	-	
Plant Establishment Work	LS		x		= $	-	
Implement Erosion Control	LS		x		= $	-	
Prepare and Implement SWPPP / WPCP	LS		x		= $	-	
				TOTAL ENVIRONMENTAL			**$ -**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	700,000	= $	700,000	1
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	40,000	= $	40,000	2
				TOTAL TRAFFIC ITEMS			**$ 840,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	42,000	
Stage Construction and Traffic Handling				5.0%	$	42,000	
ADA Items				5.0%	$	42,000	
Other Minor Items				5.0%	$	42,000	
Total of Section 1-6	$	840,000	x	20.0%	= $	168,000	
				TOTAL MINOR ITEMS			**$ 168,000**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	1,008,000	x	10%	= $	100,800	
				TOTAL MOBILIZATION			**$ 100,800**

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	1,108,800	x	20%	= $	221,760	
				TOTAL CONTINGENCY			**$ 221,800**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 (I4) New Intersection Control - Cathedral Oaks Rd / Hollister Av / 101 NB Ramps

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**-**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 (I4) New Intersection Control - Cathedral Oaks Rd / Hollister Av / 101 NB Ramps

NOTES AND CALCULATIONS

NOTE NO. 1

Signal and Lighting

Scale:	Major		
Legs:	4		
Cost:	$700,000	**RESULT NO. 1**	$700,000

NOTE NO. 2

Permanent Pavement Delineation

Cost	$40,000	**RESULT NO. 2**	$40,000

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 (I4) New Intersection Control - Cathedral Oaks Rd / Hollister Av / 101 NB Ramps

Description: New simple single-lane roundabout. Bike Path in NW quadrant.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection and each leg of Cathedral Oaks Road and Hollister Avenue at 101 NB ramps.

Estimate Type: Planning (City) Estimate Date: 20-Jan-26

Working Days: 200

		Current Year Costs		Section		
Earthwork	$	809,800	+	1		
Pavement Structural Section	$	1,297,100	+	2		
Drainage	$	362,100	+	3		
Specialty Items	$	-	+	4		
Environmental	$	185,000	+	5		
Traffic Items	$	330,000	+	6		
Minor Items	$	567,000	+	7		
Roadway Mobilization	$	355,100	+	8		
Roadway Contingency	$	1,171,900	+	9		
TOTAL ROADWAY COST	$	5,078,000	=			
TOTAL STRUCTURES COST	$	-	+	10		
TOTAL CONSTRUCTION COST	**$**	**5,078,000**	=			
TOTAL RIGHT OF WAY COST	**$**	**750,000**	=	11		
Management Support	$	507,800	+	10%		
PA&ED Support	$	507,800	+	10%		of Construction Costs
PS&E Support	$	761,700	+	15%		
Right of Way Support	$	101,600	+	2%		
Construction Support	$	812,500	+	16%		
Support Contingency	$	538,300	+	20%		of Support Costs
TOTAL SUPPORT COST	**$**	**3,230,000**	=			

Total Estimated Project Costs: $ 9,100,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 (I4) New Intersection Control - Cathedral Oaks Rd / Hollister Av / 101 NB Ramps

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	4,028	x	110.00	= $	443,080	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	741	x	90.00	= $	66,690	2
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 809,800**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,640	x	237.97	= $	390,271	3
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	4
Slurry Seal	TN	5	x	3,507.95	= $	17,540	6
Minor Concrete (Miscellaneous Construction)	CY	584	x	1,424.58	= $	831,955	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,297,100**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 362,100**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 (I4) New Intersection Control - Cathedral Oaks Rd / Hollister Av / 101 NB Ramps

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS	1	x		= $	-	
Highway Planting	LS	1	x	100,000	= $	100,000	
Irrigation System	LS	1	x	25,000	= $	25,000	
Plant Establishment Work	LS	1	x	20,000	= $	20,000	
Implement Erosion Control	LS	1	x	20,000	= $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	20,000	= $	20,000	
				TOTAL ENVIRONMENTAL		**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS	1	x	250,000	= $	250,000	12
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	80,000	= $	80,000	13
				TOTAL TRAFFIC ITEMS		**$ 330,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	149,200	
Stage Construction and Traffic Handling				6.0%	$	179,040	
ADA Items				2.0%	$	59,680	
Other Minor Items				6.0%	$	179,040	
Total of Section 1-6	$	2,984,000	x	19.0%	= $	566,960	
				TOTAL MINOR ITEMS		**$ 567,000**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	3,551,000	x	10%	= $	355,100	
				TOTAL MOBILIZATION		**$ 355,100**	

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	3,906,100	x	30%	= $	1,171,830	
				TOTAL CONTINGENCY		**$ 1,171,900**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 (I4) New Intersection Control - Cathedral Oaks Rd / Hollister Av / 101 NB Ramps

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	2,500	x	250.00	=	$	625,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	625,000	=	$	125,000	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**750,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 (I4) New Intersection Control - Cathedral Oaks Rd / Hollister Av / 101 NB Ramps

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs
4 legs
250 feet average approach length
200 feet average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)
35,000
Depth of AC
0.75
Depth of base
2.00
Roadway excavation = width * length * depth
96,250 CF

Other Grading
463 CY

4,028 CY **RESULT NO. 2** **4,028**

NOTE NO. 3

Import for landscape areas
10,000 SF
Depth
2.00 feet
Volume = width * length * depth
20,000 CF
741 CY **RESULT NO. 3** **741**

NOTE NO. 4

AC pavement area
3,500 SF
Depth of AC
0.75 feet
Volume = width * length * depth
2,625 CF

AC pavement area (approaches)
40,000
Depth of AC
0.50
Volume = width * length * depth
20,000 CF

Total
22,625 CF * 145 pounds/CF / 2,000 pounds/ton
1,640 TN **RESULT NO. 4** **1,640**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 (I4) New Intersection Control - Cathedral Oaks Rd / Hollister Av / 101 NB Ramps

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
40,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
40,000 CF

45,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 6** **5**

NOTE NO. 7

New sidewalk length

200	feet	At roundabout
300	feet	Bike Path on NW Cathedral Oaks
2000	feet	Approaches
2500	feet	TOTAL

Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
8333 CF
309 CY **RESULT NO. 7** **309**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 (I4) New Intersection Control - Cathedral Oaks Rd / Hollister Av / 101 NB Ramps

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands

1600	feet	Approaches
1600	feet	TOTAL

Volume / foot

0.03 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

41 CY

New Caltrans A2-6 curb and gutter length

200	feet	At roundabout
2000	feet	Approaches
2200	feet	TOTAL

Volume / foot

0.06 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

130 CY **RESULT NO. 8** **171**

NOTE NO. 9

Truck apron and misc

Truck apron (CAD)

2500 SF

Concrete thickness

9 inches

Volume = Minor Concrete (Miscellaneous Construction)

1875 CF

50% Additional for misc

2813 CF

104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg

8 each

Depth of drop inlets

5 feet

Drop inlet volume - Caltrans OL-10

Volume / foot

2.39 CY (3 feet deep)

0.28 CY/each additional foot of depth up to 8 feet

Volume = Minor Concrete (Minor Structure)

24 CY **RESULT NO. 10** **24**

NOTE NO. 11

Estimated length of RCP

1,500 feet **RESULT NO. 11** **1,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-02 (I4) New Intersection Control - Cathedral Oaks Rd / Hollister Av / 101 NB Ramps

NOTES AND CALCULATIONS

NOTE NO. 12

New street lights
12 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 480,000
Connection
$ 25,000

RESULT NO. 12 **$ 505,000**

NOTE NO. 13

Pavement delineation and marking
$ 80,000

RESULT NO. 13 **80,000**



50' 0' 50' 100'

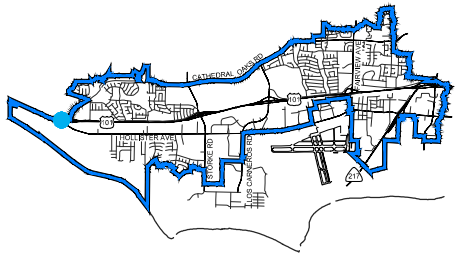
1 inch = 100 ft.

C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-12-02 (I4).dwg

Thu 23 Oct 25 10:08:51 AM

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-12-02 (I4): Cathedral Oaks Road and Calle Real Roundabout



MNS

201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-05 New Intersection Control - Cathedral Oaks Road / Los Carneros Road

Description: New traffic signal.

Scope: New traffic signal improvements.

Limits: Intersection of Cathedral Oaks Road and Los Carneros Road

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 60

		Current Year Costs		Section		
Earthwork	$	-	+	1		
Pavement Structural Section	$	-	+	2		
Drainage	$	-	+	3		
Specialty Items	$	-	+	4		
Environmental	$	-	+	5		
Traffic Items	$	561,300	+	6		
Minor Items	$	112,300	+	7		
Roadway Mobilization	$	67,400	+	8		
Roadway Contingency	$	148,200	+	9		
TOTAL ROADWAY COST	$	889,200	=			
TOTAL STRUCTURES COST	$	-	+	10		
TOTAL CONSTRUCTION COST	**$**	**889,000**	=			
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11		
Management Support	$	88,900	+	10%		
PA&ED Support	$	88,900	+	10%		of Construction Costs
PS&E Support	$	133,400	+	15%		
Right of Way Support	$	17,800	+	2%		
Construction Support	$	142,300	+	16%		
Support Contingency	$	94,300	+	20%		of Support Costs
TOTAL SUPPORT COST	**$**	**566,000**	=			

Total Estimated Project Costs: $ 1,460,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-05 New Intersection Control - Cathedral Oaks Road / Los Carneros Road

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY		x	=	$	-	
Roadway Excavation (ADL)	CY		x	=	$	-	
Imported Borrow	CY		x	=	$	-	
Structure Excavation (Retaining Wall)	CY		x	=	$	-	
Structure Backfill (Retaining Wall)	CY		x	=	$	-	
Clearing & Grubbing	LS		x	=	$	-	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**-**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x	=	$	-	
Hot Mix Asphalt (Type A)	TN		x	=	$	-	
Class 2 Aggregate Base	CY		x	=	$	-	
Slurry Seal	TN		x	=	$	-	
Minor Concrete (Miscellaneous Construction)	CY		x	=	$	-	
Place Hot Mix Asphalt Dike	LF		x	=	$	-	
Cold Plane Asphalt Concrete Pavement	SY		x	=	$	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**-**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x	=	$	-	
Minor Concrete (Minor Structure)	CY		x	=	$	-	
Reinforced Concrete Pipe	LF		x	=	$	-	
Rock Slope Protection	CY		x	=	$	-	
Concrete (Ditch/Channel Lining)	CY		x	=	$	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x	=	$	-	
Remove Concrete Barrier	LF		x	=	$	-	
Remove Metal Beam Guard Railing	LF		x	=	$	-	
Chain Link Fence	LF		x	=	$	-	
Midwest Guardrail System (Wood Post)	LF		x	=	$	-	
Thrie Beam Barrier	LF		x	=	$	-	
Terminal System or Crash Cushion	EA		x	=	$	-	
Concrete Barrier (TYPE 60M)	LF		x	=	$	-	
Structural Concrete, Retaining Wall	CY		x	=	$	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-05 New Intersection Control - Cathedral Oaks Road / Los Carneros Road

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS		x		= $	-	
Irrigation System	LS		x		= $	-	
Plant Establishment Work	LS		x		= $	-	
Implement Erosion Control	LS		x		= $	-	
Prepare and Implement SWPPP / WPCP	LS		x		= $	-	
				TOTAL ENVIRONMENTAL		**$**	**-**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	431,250	= $	431,250	1
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	30,000	= $	30,000	2
				TOTAL TRAFFIC ITEMS		**$**	**561,300**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	28,065	
Stage Construction and Traffic Handling				5.0%	$	28,065	
ADA Items				5.0%	$	28,065	
Other Minor Items				5.0%	$	28,065	
Total of Section 1-6	$	561,300	x	20.0%	= $	112,260	
				TOTAL MINOR ITEMS		**$**	**112,300**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	673,600	x	10%	= $	67,360	
				TOTAL MOBILIZATION		**$**	**67,400**

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	741,000	x	20%	= $	148,200	
				TOTAL CONTINGENCY		**$**	**148,200**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-05 New Intersection Control - Cathedral Oaks Road / Los Carneros Road

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**-**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-05 New Intersection Control - Cathedral Oaks Road / Los Carneros Road

NOTES AND CALCULATIONS

NOTE NO. 1

Signal and Lighting

Scale:	Minor
Legs:	3
Cost:	$431,250

RESULT NO. 1 $431,250

NOTE NO. 2

Permanent Pavement Delineation

Cost	$30,000

RESULT NO. 2 $30,000

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-05 New Intersection Control - Cathedral Oaks Road / Los Carneros Road

Description: New simple single-lane roundabout.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection of Cathedral Oaks Road and Los Carneros Road

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 200

		Current Year Costs		Section	
Earthwork	$	758,900	+	1	
Pavement Structural Section	$	1,200,300	+	2	
Drainage	$	362,100	+	3	
Specialty Items	$	-	+	4	
Environmental	$	185,000	+	5	
Traffic Items	$	330,000	+	6	
Minor Items	$	538,900	+	7	
Roadway Mobilization	$	337,600	+	8	
Roadway Contingency	$	1,113,900	+	9	
TOTAL ROADWAY COST	$	4,826,700	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**4,827,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**3,750,000**	=	11	
Management Support	$	482,700	+	10%	of Construction Costs
PA&ED Support	$	482,700	+	10%	
PS&E Support	$	724,100	+	15%	
Right of Way Support	$	96,600	+	2%	
Construction Support	$	772,400	+	16%	
Support Contingency	$	511,700	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**3,071,000**	=		

Total Estimated Project Costs: $ 11,650,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-05 New Intersection Control - Cathedral Oaks Road / Los Carneros Road

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	3,565	x	110.00	= $	392,150	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	741	x	90.00	= $	66,690	2
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 758,900**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,640	x	237.97	= $	390,271	3
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	4
Slurry Seal	TN	5	x	3,507.95	= $	17,540	6
Minor Concrete (Miscellaneous Construction)	CY	516	x	1,424.58	= $	735,083	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,200,300**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 362,100**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-05 New Intersection Control - Cathedral Oaks Road / Los Carneros Road

SECTION 5: ENVIRONMENTAL	Unit	Quantity	Unit Price ($)	Cost	Notes
Biological Mitigation	LS	1	x = $	-	
Highway Planting	LS	1	x 100,000 = $	100,000	
Irrigation System	LS	1	x 25,000 = $	25,000	
Plant Establishment Work	LS	1	x 20,000 = $	20,000	
Implement Erosion Control	LS	1	x 20,000 = $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x 20,000 = $	20,000	
			TOTAL ENVIRONMENTAL	**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity	Unit Price ($)	Cost	Notes
Lighting and Sign Illumination	LS	1	x 250,000 = $	250,000	12
Signal and Lighting	LS		x = $	-	
Ramp Metering System	LS		x = $	-	
Interconnection Conduit and Cable	LS		x = $	-	
Furnish and Install Sign Structure	LS		x = $	-	
CIDH Pile (Sign Foundation)	LS		x = $	-	
Remove Sign Structure	LS		x = $	-	
Permanent Pavement Delineation	LS	1	x 80,000 = $	80,000	13
			TOTAL TRAFFIC ITEMS	**$ 330,000**	

SECTION 7: MINOR ITEMS					Notes
Traffic Management Plan and Detours			5.0%	$ 141,815	
Stage Construction and Traffic Handling			6.0%	$ 170,178	
ADA Items			2.0%	$ 56,726	
Other Minor Items			6.0%	$ 170,178	
Total of Section 1-6	$	2,836,300	x 19.0% =	$ 538,897	
			TOTAL MINOR ITEMS	**$ 538,900**	

SECTIONS 8: MOBILIZATION					
Total Section 1-7	$	3,375,200	x 10% =	$ 337,520	
			TOTAL MOBILIZATION	**$ 337,600**	

SECTION 9: ROADWAY CONTINGENCY					
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)					
Total Section 1-8	$	3,712,800	x 30% =	$ 1,113,840	
			TOTAL CONTINGENCY	**$ 1,113,900**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-05 New Intersection Control - Cathedral Oaks Road / Los Carneros Road

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	12,500	x	250.00	=	$	3,125,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	3,125,000	=	$	625,000	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**3,750,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-05 New Intersection Control - Cathedral Oaks Road / Los Carneros Road

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs
4 legs
250 feet average approach length
200 feet average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)
35,000
Depth of AC
0.75
Depth of base
2.00
Roadway excavation = width * length * depth
96,250
3,565 **RESULT NO. 2** **3,565**

NOTE NO. 3

Import for landscape areas
10,000 SF
Depth
2.00 feet
Volume = width * length * depth
20,000 CF
741 CY **RESULT NO. 3** **741**

NOTE NO. 4

AC pavement area
3,500 SF
Depth of AC
0.75 feet
Volume = width * length * depth
2,625 CF

AC pavement area (approaches)
40,000
Depth of AC
0.50
Volume = width * length * depth
20,000 CF

Total
22,625 CF * 145 pounds/CF / 2,000 pounds/ton
1,640 TN **RESULT NO. 4** **1,640**

I-12-05 New Intersection Control - Cathedral Oaks Road / Los Carneros Road

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
40,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
40,000 CF

45,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 6** **5**

NOTE NO. 7

New sidewalk length
200 feet At roundabout
1750 feet Approaches
1950 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
6500 CF
241 CY **RESULT NO. 7** **241**

I-12-05 New Intersection Control - Cathedral Oaks Road / Los Carneros Road

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands
1600 feet Approaches
1600 feet TOTAL
Volume / foot
0.03 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
41 CY
New Caltrans A2-6 curb and gutter length
200 feet At roundabout
2000 feet Approaches
2200 feet TOTAL
Volume / foot
0.06 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
130 CY **RESULT NO. 8** **171**

NOTE NO. 9

Truck apron and misc
Truck apron (CAD)
2500 SF
Concrete thickness
9 inches
Volume = Minor Concrete (Miscellaneous Construction)
1875 CF
50% Additional for misc
2813 CF
104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg
8 each
Depth of drop inlets
5 feet
Drop inlet volume - Caltrans OL-10
Volume / foot
2.39 CY (3 feet deep)
0.28 CY/each additional foot of depth up to 8 feet
Volume = Minor Concrete (Minor Structure)
24 CY **RESULT NO. 10** **24**

NOTE NO. 11

Estimated length of RCP
1,500 feet **RESULT NO. 11** **1,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-05 New Intersection Control - Cathedral Oaks Road / Los Carneros Road

NOTES AND CALCULATIONS

NOTE NO. 12

New street lights
12 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 480,000
Connection
$ 25,000

RESULT NO. 12 **$ 505,000**

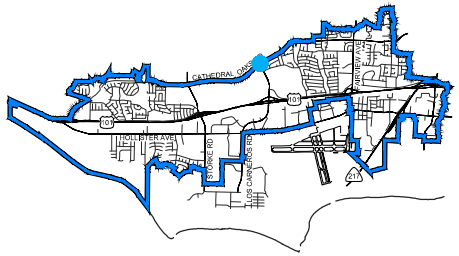
NOTE NO. 13

Pavement delineation and marking
$ 80,000

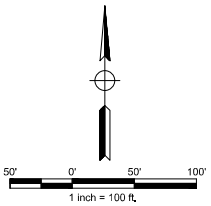
RESULT NO. 13 **80,000**

GOLETA TRANSPORTATION
IMPROVEMENTS PROGRAM

Project I-12-05: Los Carneros Road at Cathedral Oaks Road Roundabout







C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-12-05.dwg
Tue 03.Feb.26 02:03:26 PM

201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-06 New Intersection Control - Cathedral Oaks Road / N La Patera Lane

Description: New traffic signal.

Scope: New traffic signal improvements.

Limits: Intersection of Cathedral Oaks Road and N La Patera Lane

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 60

		Current Year Costs		Section	
Earthwork	$	-	+	1	
Pavement Structural Section	$	-	+	2	
Drainage	$	-	+	3	
Specialty Items	$	-	+	4	
Environmental	$	-	+	5	
Traffic Items	$	715,000	+	6	
Minor Items	$	143,000	+	7	
Roadway Mobilization	$	85,800	+	8	
Roadway Contingency	$	188,800	+	9	
TOTAL ROADWAY COST	$	1,132,600	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**1,133,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	113,300	+	10%	of Construction Costs
PA&ED Support	$	113,300	+	10%	
PS&E Support	$	170,000	+	15%	
Right of Way Support	$	22,700	+	2%	
Construction Support	$	181,300	+	16%	
Support Contingency	$	120,200	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**721,000**	=		

Total Estimated Project Costs: $ 1,860,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-06 New Intersection Control - Cathedral Oaks Road / N La Patera Lane

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY		x	=	$	-	
Roadway Excavation (ADL)	CY		x	=	$	-	
Imported Borrow	CY		x	=	$	-	
Structure Excavation (Retaining Wall)	CY		x	=	$	-	
Structure Backfill (Retaining Wall)	CY		x	=	$	-	
Clearing & Grubbing	LS		x	=	$	-	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**-**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x	=	$	-	
Hot Mix Asphalt (Type A)	TN		x	=	$	-	
Class 2 Aggregate Base	CY		x	=	$	-	
Slurry Seal	TN		x	=	$	-	
Minor Concrete (Miscellaneous Construction)	CY		x	=	$	-	
Place Hot Mix Asphalt Dike	LF		x	=	$	-	
Cold Plane Asphalt Concrete Pavement	SY		x	=	$	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**-**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x	=	$	-	
Minor Concrete (Minor Structure)	CY		x	=	$	-	
Reinforced Concrete Pipe	LF		x	=	$	-	
Rock Slope Protection	CY		x	=	$	-	
Concrete (Ditch/Channel Lining)	CY		x	=	$	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x	=	$	-	
Remove Concrete Barrier	LF		x	=	$	-	
Remove Metal Beam Guard Railing	LF		x	=	$	-	
Chain Link Fence	LF		x	=	$	-	
Midwest Guardrail System (Wood Post)	LF		x	=	$	-	
Thrie Beam Barrier	LF		x	=	$	-	
Terminal System or Crash Cushion	EA		x	=	$	-	
Concrete Barrier (TYPE 60M)	LF		x	=	$	-	
Structural Concrete, Retaining Wall	CY		x	=	$	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-06 New Intersection Control - Cathedral Oaks Road / N La Patera Lane

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS		x		= $	-	
Irrigation System	LS		x		= $	-	
Plant Establishment Work	LS		x		= $	-	
Implement Erosion Control	LS		x		= $	-	
Prepare and Implement SWPPP / WPCP	LS		x		= $	-	
				TOTAL ENVIRONMENTAL		**$**	**-**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	575,000	= $	575,000	1
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	40,000	= $	40,000	2
				TOTAL TRAFFIC ITEMS		**$**	**715,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	35,750	
Stage Construction and Traffic Handling				5.0%	$	35,750	
ADA Items				5.0%	$	35,750	
Other Minor Items				5.0%	$	35,750	
Total of Section 1-6	$	715,000	x	20.0%	= $	143,000	
				TOTAL MINOR ITEMS		**$**	**143,000**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	858,000	x	10%	= $	85,800	
				TOTAL MOBILIZATION		**$**	**85,800**

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	943,800	x	20%	= $	188,760	
				TOTAL CONTINGENCY		**$**	**188,800**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-06 New Intersection Control - Cathedral Oaks Road / N La Patera Lane

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**-**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-06 New Intersection Control - Cathedral Oaks Road / N La Patera Lane

NOTES AND CALCULATIONS

NOTE NO. 1

Signal and Lighting

Scale:	Minor		
Legs:	4		
Cost:	$575,000	**RESULT NO. 1**	$575,000

NOTE NO. 2

Permanent Pavement Delineation

Cost	$40,000	**RESULT NO. 2**	$40,000

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-06 New Intersection Control - Cathedral Oaks Road / N La Patera Lane

Description: New simple single-lane roundabout.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection of Cathedral Oaks Road and N La Patera Lane

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 200

		Current Year Costs		Section	
Earthwork	$	758,900	+	1	
Pavement Structural Section	$	1,244,400	+	2	
Drainage	$	362,100	+	3	
Specialty Items	$	-	+	4	
Environmental	$	185,000	+	5	
Traffic Items	$	330,000	+	6	
Minor Items	$	547,300	+	7	
Roadway Mobilization	$	342,800	+	8	
Roadway Contingency	$	1,131,200	+	9	
TOTAL ROADWAY COST	$	4,901,700	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**4,902,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**4,500,000**	=	11	
Management Support	$	490,200	+	10%	of Construction Costs
PA&ED Support	$	490,200	+	10%	
PS&E Support	$	735,300	+	15%	
Right of Way Support	$	98,100	+	2%	
Construction Support	$	784,400	+	16%	
Support Contingency	$	519,700	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**3,118,000**	=		

Total Estimated Project Costs: $ 12,550,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-06 New Intersection Control - Cathedral Oaks Road / N La Patera Lane

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	3,565	x	110.00	= $	392,150	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	741	x	90.00	= $	66,690	2
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 758,900**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,640	x	237.97	= $	390,271	3
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	4
Slurry Seal	TN	5	x	3,507.95	= $	17,540	6
Minor Concrete (Miscellaneous Construction)	CY	547	x	1,424.58	= $	779,245	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,244,400**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 362,100**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-06 New Intersection Control - Cathedral Oaks Road / N La Patera Lane

SECTION 5: ENVIRONMENTAL	Unit	Quantity	Unit Price ($)	Cost	Notes
Biological Mitigation	LS	1	x = $	-	
Highway Planting	LS	1	x 100,000 = $	100,000	
Irrigation System	LS	1	x 25,000 = $	25,000	
Plant Establishment Work	LS	1	x 20,000 = $	20,000	
Implement Erosion Control	LS	1	x 20,000 = $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x 20,000 = $	20,000	
			TOTAL ENVIRONMENTAL	**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity	Unit Price ($)	Cost	Notes
Lighting and Sign Illumination	LS	1	x 250,000 = $	250,000	12
Signal and Lighting	LS		x = $	-	
Ramp Metering System	LS		x = $	-	
Interconnection Conduit and Cable	LS		x = $	-	
Furnish and Install Sign Structure	LS		x = $	-	
CIDH Pile (Sign Foundation)	LS		x = $	-	
Remove Sign Structure	LS		x = $	-	
Permanent Pavement Delineation	LS	1	x 80,000 = $	80,000	13
			TOTAL TRAFFIC ITEMS	**$ 330,000**	

SECTION 7: MINOR ITEMS					Notes
Traffic Management Plan and Detours			5.0%	$ 144,020	
Stage Construction and Traffic Handling			6.0%	$ 172,824	
ADA Items			2.0%	$ 57,608	
Other Minor Items			6.0%	$ 172,824	
Total of Section 1-6	$	2,880,400	x 19.0% =	$ 547,276	
			TOTAL MINOR ITEMS	**$ 547,300**	

SECTIONS 8: MOBILIZATION					
Total Section 1-7	$	3,427,700	x 10% =	$ 342,770	
			TOTAL MOBILIZATION	**$ 342,800**	

SECTION 9: ROADWAY CONTINGENCY					
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)					
Total Section 1-8	$	3,770,500	x 30% =	$ 1,131,150	
			TOTAL CONTINGENCY	**$ 1,131,200**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-06 New Intersection Control - Cathedral Oaks Road / N La Patera Lane

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	15,000	x	250.00	=	$	3,750,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	3,750,000	=	$	750,000	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**4,500,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-06 New Intersection Control - Cathedral Oaks Road / N La Patera Lane

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs
4 legs
250 feet average approach length
200 feet average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)
35,000
Depth of AC
0.75
Depth of base
2.00
Roadway excavation = width * length * depth
96,250
3,565 **RESULT NO. 2** **3,565**

NOTE NO. 3

Import for landscape areas
10,000 SF
Depth
2.00 feet
Volume = width * length * depth
20,000 CF
741 CY **RESULT NO. 3** **741**

NOTE NO. 4

AC pavement area
3,500 SF
Depth of AC
0.75 feet
Volume = width * length * depth
2,625 CF

AC pavement area (approaches)
40,000
Depth of AC
0.50
Volume = width * length * depth
20,000 CF

Total
22,625 CF * 145 pounds/CF / 2,000 pounds/ton
1,640 TN **RESULT NO. 4** **1,640**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-06 New Intersection Control - Cathedral Oaks Road / N La Patera Lane

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
40,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
40,000 CF

45,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 6** **5**

NOTE NO. 7

New sidewalk length
200 feet At roundabout
2000 feet Approaches
2200 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
7333 CF
272 CY **RESULT NO. 7** **272**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-06 New Intersection Control - Cathedral Oaks Road / N La Patera Lane

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands

1600	feet	Approaches
1600	feet	TOTAL

Volume / foot

0.03 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

41 CY

New Caltrans A2-6 curb and gutter length

200	feet	At roundabout
2000	feet	Approaches
2200	feet	TOTAL

Volume / foot

0.06 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

130 CY **RESULT NO. 8** **171**

NOTE NO. 9

Truck apron and misc

Truck apron (CAD)

2500 SF

Concrete thickness

9 inches

Volume = Minor Concrete (Miscellaneous Construction)

1875 CF

50% Additional for misc

2813 CF

104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg

8 each

Depth of drop inlets

5 feet

Drop inlet volume - Caltrans OL-10

Volume / foot

2.39 CY (3 feet deep)

0.28 CY/each additional foot of depth up to 8 feet

Volume = Minor Concrete (Minor Structure)

24 CY **RESULT NO. 10** **24**

NOTE NO. 11

Estimated length of RCP

1,500 feet **RESULT NO. 11** **1,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-06 New Intersection Control - Cathedral Oaks Road / N La Patera Lane

NOTES AND CALCULATIONS

NOTE NO. 12

New street lights
12 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 480,000
Connection
$ 25,000

RESULT NO. 12 **$ 505,000**

NOTE NO. 13

Pavement delineation and marking
$ 80,000

RESULT NO. 13 **80,000**

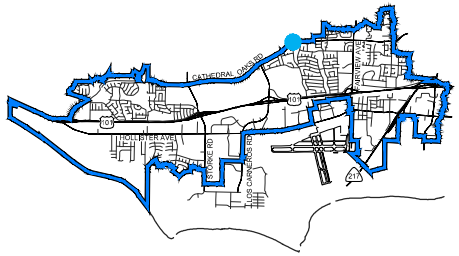


50' 0' 50' 100'
1 inch = 100 ft.

C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-12-06.dwg
Mon 03 Feb 26 04:40:23 PM

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-12-06: Cathedral Oaks Road and N La Patera Lane Roundabout



MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-07 New Intersection Control - Fairview Avenue / Stow Canyon Road

Description: New traffic signal.

Scope: New traffic signal improvements.

Limits: Intersection of Fairview Avenue and Stow Canyon Road

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 60

		Current Year Costs		Section		
Earthwork	$	-	+	1		
Pavement Structural Section	$	-	+	2		
Drainage	$	-	+	3		
Specialty Items	$	-	+	4		
Environmental	$	-	+	5		
Traffic Items	$	840,000	+	6		
Minor Items	$	168,000	+	7		
Roadway Mobilization	$	100,800	+	8		
Roadway Contingency	$	221,800	+	9		
TOTAL ROADWAY COST	$	1,330,600	=			
TOTAL STRUCTURES COST	$	-	+	10		
TOTAL CONSTRUCTION COST	**$**	**1,331,000**	=			
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11		
Management Support	$	133,100	+	10%		
PA&ED Support	$	133,100	+	10%		of Construction Costs
PS&E Support	$	199,700	+	15%		
Right of Way Support	$	26,700	+	2%		
Construction Support	$	213,000	+	16%		
Support Contingency	$	141,200	+	20%		of Support Costs
TOTAL SUPPORT COST	**$**	**847,000**	=			

Total Estimated Project Costs: $ 2,180,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-07 New Intersection Control - Fairview Avenue / Stow Canyon Road

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY		x	=	$	-	
Roadway Excavation (ADL)	CY		x	=	$	-	
Imported Borrow	CY		x	=	$	-	
Structure Excavation (Retaining Wall)	CY		x	=	$	-	
Structure Backfill (Retaining Wall)	CY		x	=	$	-	
Clearing & Grubbing	LS		x	=	$	-	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**-**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x	=	$	-	
Hot Mix Asphalt (Type A)	TN		x	=	$	-	
Class 2 Aggregate Base	CY		x	=	$	-	
Slurry Seal	TN		x	=	$	-	
Minor Concrete (Miscellaneous Construction)	CY		x	=	$	-	
Place Hot Mix Asphalt Dike	LF		x	=	$	-	
Cold Plane Asphalt Concrete Pavement	SY		x	=	$	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**-**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x	=	$	-	
Minor Concrete (Minor Structure)	CY		x	=	$	-	
Reinforced Concrete Pipe	LF		x	=	$	-	
Rock Slope Protection	CY		x	=	$	-	
Concrete (Ditch/Channel Lining)	CY		x	=	$	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x	=	$	-	
Remove Concrete Barrier	LF		x	=	$	-	
Remove Metal Beam Guard Railing	LF		x	=	$	-	
Chain Link Fence	LF		x	=	$	-	
Midwest Guardrail System (Wood Post)	LF		x	=	$	-	
Thrie Beam Barrier	LF		x	=	$	-	
Terminal System or Crash Cushion	EA		x	=	$	-	
Concrete Barrier (TYPE 60M)	LF		x	=	$	-	
Structural Concrete, Retaining Wall	CY		x	=	$	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-07 New Intersection Control - Fairview Avenue / Stow Canyon Road

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS		x		= $	-	
Irrigation System	LS		x		= $	-	
Plant Establishment Work	LS		x		= $	-	
Implement Erosion Control	LS		x		= $	-	
Prepare and Implement SWPPP / WPCP	LS		x		= $	-	
				TOTAL ENVIRONMENTAL			**$ -**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	700,000	= $	700,000	1
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	40,000	= $	40,000	2
				TOTAL TRAFFIC ITEMS			**$ 840,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	42,000	
Stage Construction and Traffic Handling				5.0%	$	42,000	
ADA Items				5.0%	$	42,000	
Other Minor Items				5.0%	$	42,000	
Total of Section 1-6	$	840,000	x	20.0%	= $	168,000	
				TOTAL MINOR ITEMS			**$ 168,000**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	1,008,000	x	10%	= $	100,800	
				TOTAL MOBILIZATION			**$ 100,800**

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	1,108,800	x	20%	= $	221,760	
				TOTAL CONTINGENCY			**$ 221,800**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-07 New Intersection Control - Fairview Avenue / Stow Canyon Road

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**-**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-07 New Intersection Control - Fairview Avenue / Stow Canyon Road

NOTES AND CALCULATIONS

NOTE NO. 1

Signal and Lighting

Scale:	Major
Legs:	4
Cost:	$700,000

RESULT NO. 1 $700,000

NOTE NO. 2

Permanent Pavement Delineation

Cost	$40,000

RESULT NO. 2 $40,000

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-07 New Intersection Control - Fairview Avenue / Stow Canyon Road

Description: New simple single-lane roundabout.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection of Fairview Avenue and Stow Canyon Road

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 200

		Current Year Costs		Section		
Earthwork	$	758,900	+	1		
Pavement Structural Section	$	1,321,400	+	2		
Drainage	$	362,100	+	3		
Specialty Items	$	-	+	4		
Environmental	$	185,000	+	5		
Traffic Items	$	330,000	+	6		
Minor Items	$	562,000	+	7		
Roadway Mobilization	$	352,000	+	8		
Roadway Contingency	$	1,161,500	+	9		
TOTAL ROADWAY COST	$	5,032,900	=			
TOTAL STRUCTURES COST	$	-	+	10		
TOTAL CONSTRUCTION COST	**$**	**5,033,000**	=			
TOTAL RIGHT OF WAY COST	**$**	**3,600,000**	=	11		
Management Support	$	503,300	+	10%		
PA&ED Support	$	503,300	+	10%		
PS&E Support	$	755,000	+	15%		of Construction Costs
Right of Way Support	$	100,700	+	2%		
Construction Support	$	805,300	+	16%		
Support Contingency	$	533,600	+	20%		of Support Costs
TOTAL SUPPORT COST	**$**	**3,202,000**	=			

Total Estimated Project Costs: $ 11,850,000 Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-07 New Intersection Control - Fairview Avenue / Stow Canyon Road

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	3,565	x	110.00	= $	392,150	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	741	x	90.00	= $	66,690	2
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 758,900**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,640	x	237.97	= $	390,271	3
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	4
Slurry Seal	TN	5	x	3,507.95	= $	17,540	6
Minor Concrete (Miscellaneous Construction)	CY	601	x	1,424.58	= $	856,173	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,321,400**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 362,100**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-07 New Intersection Control - Fairview Avenue / Stow Canyon Road

SECTION 5: ENVIRONMENTAL	Unit	Quantity	Unit Price ($)	Cost	Notes
Biological Mitigation	LS	1	x = $	-	
Highway Planting	LS	1	x 100,000 = $	100,000	
Irrigation System	LS	1	x 25,000 = $	25,000	
Plant Establishment Work	LS	1	x 20,000 = $	20,000	
Implement Erosion Control	LS	1	x 20,000 = $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x 20,000 = $	20,000	
			TOTAL ENVIRONMENTAL	**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity	Unit Price ($)	Cost	Notes
Lighting and Sign Illumination	LS	1	x 250,000 = $	250,000	12
Signal and Lighting	LS		x = $	-	
Ramp Metering System	LS		x = $	-	
Interconnection Conduit and Cable	LS		x = $	-	
Furnish and Install Sign Structure	LS		x = $	-	
CIDH Pile (Sign Foundation)	LS		x = $	-	
Remove Sign Structure	LS		x = $	-	
Permanent Pavement Delineation	LS	1	x 80,000 = $	80,000	13
			TOTAL TRAFFIC ITEMS	**$ 330,000**	

SECTION 7: MINOR ITEMS					Notes
Traffic Management Plan and Detours			5.0%	$ 147,870	
Stage Construction and Traffic Handling			6.0%	$ 177,444	
ADA Items			2.0%	$ 59,148	
Other Minor Items			6.0%	$ 177,444	
Total of Section 1-6	$	2,957,400	x 19.0% =	$ 561,906	
			TOTAL MINOR ITEMS	**$ 562,000**	

SECTIONS 8: MOBILIZATION					
Total Section 1-7	$	3,519,400	x 10% =	$ 351,940	
			TOTAL MOBILIZATION	**$ 352,000**	

SECTION 9: ROADWAY CONTINGENCY					
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)					
Total Section 1-8	$	3,871,400	x 30% =	$ 1,161,420	
			TOTAL CONTINGENCY	**$ 1,161,500**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-07 New Intersection Control - Fairview Avenue / Stow Canyon Road

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	12,000	x	250.00	=	$	3,000,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	3,000,000	=	$	600,000	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**3,600,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-07 New Intersection Control - Fairview Avenue / Stow Canyon Road

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs
4 legs
250 feet average approach length
200 feet average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)
35,000
Depth of AC
0.75
Depth of base
2.00
Roadway excavation = width * length * depth
96,250
3,565 **RESULT NO. 2** **3,565**

NOTE NO. 3

Import for landscape areas
10,000 SF
Depth
2.00 feet
Volume = width * length * depth
20,000 CF
741 CY **RESULT NO. 3** **741**

NOTE NO. 4

AC pavement area
3,500 SF
Depth of AC
0.75 feet
Volume = width * length * depth
2,625 CF

AC pavement area (approaches)
40,000
Depth of AC
0.50
Volume = width * length * depth
20,000 CF

Total
22,625 CF * 145 pounds/CF / 2,000 pounds/ton
1,640 TN **RESULT NO. 4** **1,640**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-07 New Intersection Control - Fairview Avenue / Stow Canyon Road

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
40,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
40,000 CF

45,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 6** **5**

NOTE NO. 7

New sidewalk length
200 feet At roundabout
1600 feet Approaches
1800 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
6000 CF
222 CY

Bike path
400 feet Approaches
400 feet TOTAL
Sidewalk width (most of it is multi-use path)
14 feet
Sidewalk thickness
6 inches
Volume = Minor Concrete (Miscellaneous Construction)

I-12-07 New Intersection Control - Fairview Avenue / Stow Canyon Road

NOTES AND CALCULATIONS

2800 CF
104 CY

326 CY **RESULT NO. 7** **326**

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands
1600 feet Approaches
1600 feet TOTAL
Volume / foot
0.03 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
41 CY
New Caltrans A2-6 curb and gutter length
200 feet At roundabout
2000 feet Approaches
2200 feet TOTAL
Volume / foot
0.06 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
130 CY **RESULT NO. 8** **171**

NOTE NO. 9

Truck apron and misc
Truck apron (CAD)
2500 SF
Concrete thickness
9 inches
Volume = Minor Concrete (Miscellaneous Construction)
1875 CF
50% Additional for misc
2813 CF
104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg
8 each
Depth of drop inlets
5 feet
Drop inlet volume - Caltrans OL-10
Volume / foot
2.39 CY (3 feet deep)
0.28 CY/each additional foot of depth up to 8 feet

I-12-07 New Intersection Control - Fairview Avenue / Stow Canyon Road

NOTES AND CALCULATIONS

Volume = Minor Concrete (Minor Structure)
24 CY — **RESULT NO. 10** — **24**

NOTE NO. 11

Estimated length of RCP
1,500 feet — **RESULT NO. 11** — **1,500**

NOTE NO. 12

New street lights
12 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 480,000
Connection
$ 25,000 — **RESULT NO. 12** — **$ 505,000**

NOTE NO. 13

Pavement delineation and marking
$ 80,000 — **RESULT NO. 13** — **80,000**



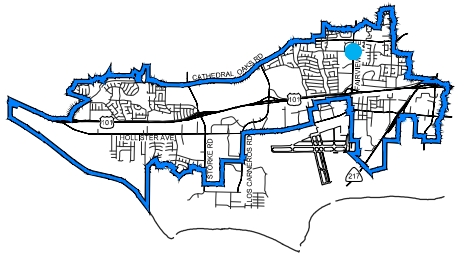
50' 0' 50' 100'

1 inch = 100 ft.

Mon 03 Feb 26 04:38:39 PM C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-12-07.dwg

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-12-07: Fairview Avenue and Stow Canyon Road Roundabout



MNS

201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-10 New Intersection Control - Hollister Avenue / Cannon Green Drive

Description: New traffic signal and median island modifications.

Scope: New traffic signal and median island modifications.

Limits: Intersection of Hollister Avenue and Cannon Green Drive

Estimate Type: Planning (City) Estimate Date: 16-Jan-26

Working Days: 120

		Current Year Costs		Section	
Earthwork	$	85,900	+	1	
Pavement Structural Section	$	38,900	+	2	
Drainage	$	-	+	3	
Specialty Items	$	-	+	4	
Environmental	$	115,000	+	5	
Traffic Items	$	665,000	+	6	
Minor Items	$	181,000	+	7	
Roadway Mobilization	$	108,600	+	8	
Roadway Contingency	$	238,900	+	9	
TOTAL ROADWAY COST	$	1,433,300	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**1,433,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	143,300	+	10%	of Construction Costs
PA&ED Support	$	143,300	+	10%	
PS&E Support	$	215,000	+	15%	
Right of Way Support	$	28,700	+	2%	
Construction Support	$	229,300	+	16%	
Support Contingency	$	152,000	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**912,000**	=		

Total Estimated Project Costs: $ 2,350,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-10 New Intersection Control - Hollister Avenue / Cannon Green Drive

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	375	x	228.81	= $	85,804	3
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY		x		= $	-	
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS		x		= $	-	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**85,900**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN		x		= $	-	
Class 2 Aggregate Base	CY		x		= $	-	
Slurry Seal	TN		x		= $	-	
Minor Concrete (Miscellaneous Construction)	CY	32	x	1,212.77	= $	38,809	4
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**38,900**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-10 New Intersection Control - Hollister Avenue / Cannon Green Drive

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	50,000	= $	50,000	
Irrigation System	LS	1	x	20,000	= $	20,000	
Plant Establishment Work	LS	1	x	25,000	= $	25,000	
Implement Erosion Control	LS		x		= $	-	
Prepare and Implement SWPPP / WPCP	LS	1	x	20,000	= $	20,000	
				TOTAL ENVIRONMENTAL		**$**	**115,000**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	525,000	= $	525,000	1
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	40,000	= $	40,000	2
				TOTAL TRAFFIC ITEMS		**$**	**665,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	45,240	
Stage Construction and Traffic Handling				5.0%	$	45,240	
ADA Items				5.0%	$	45,240	
Other Minor Items				5.0%	$	45,240	
Total of Section 1-6	$	904,800	x	20.0%	= $	180,960	
				TOTAL MINOR ITEMS		**$**	**181,000**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	1,085,800	x	10%	= $	108,580	
				TOTAL MOBILIZATION		**$**	**108,600**

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	1,194,400	x	20%	= $	238,880	
				TOTAL CONTINGENCY		**$**	**238,900**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-10 New Intersection Control - Hollister Avenue / Cannon Green Drive

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-10 New Intersection Control - Hollister Avenue / Cannon Green Drive

NOTES AND CALCULATIONS

NOTE NO. 1

Signal and Lighting

Scale:	Major			
Legs:	3			
Cost:	$525,000		**RESULT NO. 1**	$525,000

NOTE NO. 2

Permanent Pavement Delineation

Cost	$30,000		**RESULT NO. 2**	$30,000

NOTE NO. 3

Roadway excavation

Area from CAD				
	4500	SF		
Depth				
	2.25	FT		
Volume				
	10125	CF		
	375	CY	**RESULT NO. 3**	375

NOTE NO. 3

A1-6 Curb

Length				
	1005	LF		
Vol per foot				
	0.02585	CY/LF		
Volume				
	26	CY/LF		

Island paving

Area				
	500	SF		
Depth				
	4	IN		
Volume				
	167	CF		
	6	CY		
TOTAL	32	CY	**RESULT NO. 4**	32

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-10 New Intersection Control - Hollister Avenue / Cannon Green Drive

Description: New simple single-lane roundabout.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection of Hollister Avenue and Cannon Green Drive

Estimate Type: Planning (City) Estimate Date: 9-Feb-26

Working Days: 200

		Current Year Costs		Section	
Earthwork	$	769,400	+	1	
Pavement Structural Section	$	1,038,600	+	2	
Drainage	$	344,700	+	3	
Specialty Items	$	-	+	4	
Environmental	$	185,000	+	5	
Traffic Items	$	310,000	+	6	
Minor Items	$	503,100	+	7	
Roadway Mobilization	$	315,100	+	8	
Roadway Contingency	$	1,039,800	+	9	
TOTAL ROADWAY COST	$	4,505,700	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**4,506,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**2,085,000**	=	11	
Management Support	$	450,600	+	10%	of Construction Costs
PA&ED Support	$	450,600	+	10%	
PS&E Support	$	675,900	+	15%	
Right of Way Support	$	90,200	+	2%	
Construction Support	$	721,000	+	16%	
Support Contingency	$	477,700	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**2,866,000**	=		

Total Estimated Project Costs: $ 9,500,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-10 New Intersection Control - Hollister Avenue / Cannon Green Drive

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	2,674	x	160.00	= $	427,840	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	1,037	x	40.00	= $	41,480	2
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 769,400**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,278	x	237.97	= $	304,126	3
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	4
Slurry Seal	TN	5	x	3,507.95	= $	17,540	6
Minor Concrete (Miscellaneous Construction)	CY	463	x	1,424.58	= $	659,581	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,038,600**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	18	x	2,900.00	= $	52,200	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 344,700**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-10 New Intersection Control - Hollister Avenue / Cannon Green Drive

SECTION 5: ENVIRONMENTAL	Unit	Quantity	Unit Price ($)	Cost	Notes
Biological Mitigation	LS	1	x = $	-	
Highway Planting	LS	1	x 100,000 = $	100,000	
Irrigation System	LS	1	x 25,000 = $	25,000	
Plant Establishment Work	LS	1	x 20,000 = $	20,000	
Implement Erosion Control	LS	1	x 20,000 = $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x 20,000 = $	20,000	
			TOTAL ENVIRONMENTAL	**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity	Unit Price ($)	Cost	Notes
Lighting and Sign Illumination	LS	1	x 250,000 = $	250,000	12
Signal and Lighting	LS		x = $	-	
Ramp Metering System	LS		x = $	-	
Interconnection Conduit and Cable	LS		x = $	-	
Furnish and Install Sign Structure	LS		x = $	-	
CIDH Pile (Sign Foundation)	LS		x = $	-	
Remove Sign Structure	LS		x = $	-	
Permanent Pavement Delineation	LS	1	x 60,000 = $	60,000	13
			TOTAL TRAFFIC ITEMS	**$ 310,000**	

SECTION 7: MINOR ITEMS				Notes
Traffic Management Plan and Detours	5.0%	$	132,385	
Stage Construction and Traffic Handling	6.0%	$	158,862	
ADA Items	2.0%	$	52,954	
Other Minor Items	6.0%	$	158,862	
Total of Section 1-6 $ 2,647,700 x	19.0%	= $	503,063	
	TOTAL MINOR ITEMS		**$ 503,100**	

SECTIONS 8: MOBILIZATION				
Total Section 1-7 $ 3,150,800 x	10%	= $	315,080	
	TOTAL MOBILIZATION		**$ 315,100**	

SECTION 9: ROADWAY CONTINGENCY				
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)				
Total Section 1-8 $ 3,465,900 x	30%	= $	1,039,770	
	TOTAL CONTINGENCY		**$ 1,039,800**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-10 New Intersection Control - Hollister Avenue / Cannon Green Drive

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF	1,000	x	150.00	=	$	150,000	
Acquisition - Commercial Property	SF	5,750	x	250.00	=	$	1,437,500	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS	1	x	150,000	=	$	150,000	
Right of Way Contingency	LS	20%	x	1,737,500	=	$	347,500	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**2,085,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-10 New Intersection Control - Hollister Avenue / Cannon Green Drive

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs

3 legs

250 feet average approach length

200 feet average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)

26,250

Depth of AC

0.75

Depth of base

2.00

Roadway excavation = width * length * depth

72,188

2,674 **RESULT NO. 2** **2,674**

NOTE NO. 3

Import for landscape areas

14,000 SF

Depth

2.00 feet

Volume = width * length * depth

28,000 CF

1,037 CY **RESULT NO. 3** **1,037**

NOTE NO. 4

AC pavement area

3,500 SF

Depth of AC

0.75 feet

Volume = width * length * depth

2,625 CF

AC pavement area (approaches)

30,000

Depth of AC

0.50

Volume = width * length * depth

15,000 CF

Total

17,625 CF * 145 pounds/CF / 2,000 pounds/ton

1,278 TN **RESULT NO. 4** **1,278**

I-12-10 New Intersection Control - Hollister Avenue / Cannon Green Drive

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
30,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
30,000 CF

35,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 6** **5**

NOTE NO. 7

New sidewalk length
250 feet At roundabout
1500 feet Approaches
1750 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
5833 CF
216 CY **RESULT NO. 7** **216**

I-12-10 New Intersection Control - Hollister Avenue / Cannon Green Drive

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands
1200 feet Approaches
1200 feet TOTAL
Volume / foot
0.03 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
31 CY
New Caltrans A2-6 curb and gutter length
400 feet At roundabout
1500 feet Approaches
1900 feet TOTAL
Volume / foot
0.06 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
112 CY **RESULT NO. 8** **143**

NOTE NO. 9

Truck apron and misc
Truck apron (CAD)
2500 SF
Concrete thickness
9 inches
Volume = Minor Concrete (Miscellaneous Construction)
1875 CF
50% Additional for misc
2813 CF
104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg
6 each
Depth of drop inlets
5 feet
Drop inlet volume - Caltrans OL-10
Volume / foot
2.39 CY (3 feet deep)
0.28 CY/each additional foot of depth up to 8 feet
Volume = Minor Concrete (Minor Structure)
18 CY **RESULT NO. 10** **18**

NOTE NO. 11

Estimated length of RCP
1,500 feet **RESULT NO. 11** **1,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-10 New Intersection Control - Hollister Avenue / Cannon Green Drive

NOTES AND CALCULATIONS

NOTE NO. 12

New street lights
9 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 390,000
Connection
$ 25,000

RESULT NO. 12 **$ 415,000**

NOTE NO. 13

Pavement delineation and marking
$ 60,000

RESULT NO. 13 **60,000**



50' 0' 50' 100'

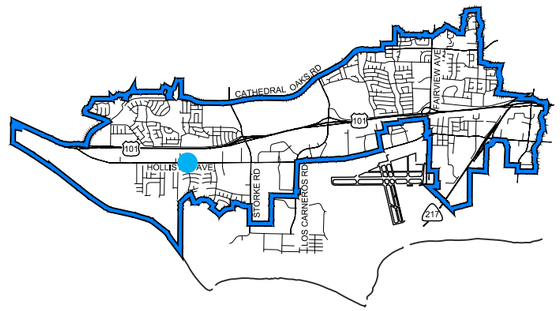
1 inch = 100 ft.

C:\Box\Projects\CIGOL Goleta\CIGOL_240089 GTIP-DIF 2025\5 Engl_CAD_Exhibits\Project I-12-10.dwg

Mon 23.Mar.26 08:25:23 AM

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-12-10: Hollister Avenue and Cannon Green Drive

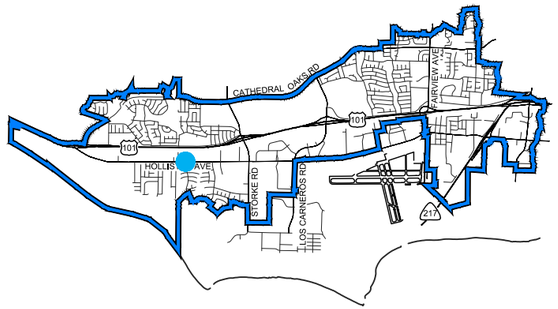


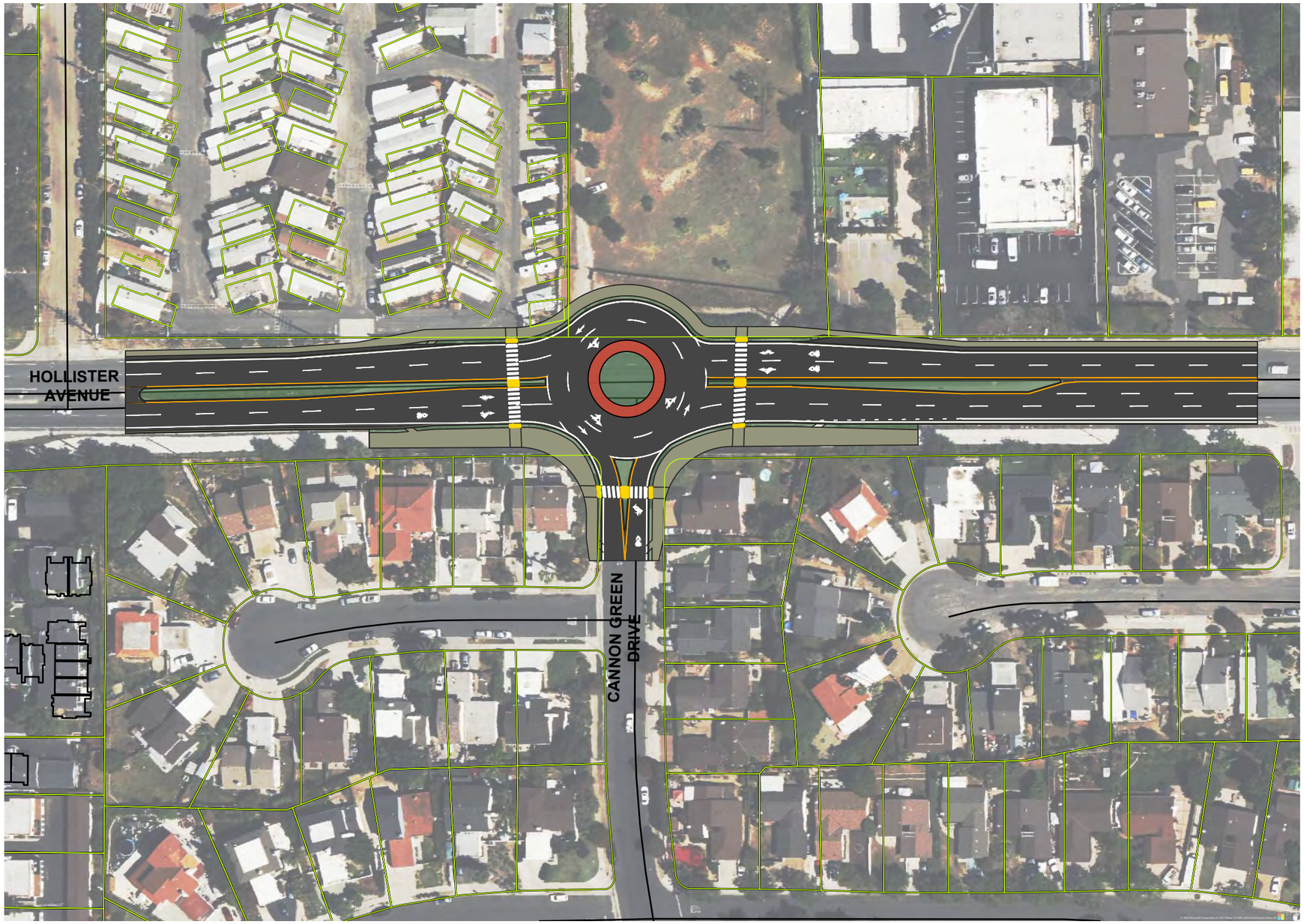
MNS

201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

GOLETA TRANSPORTATION
IMPROVEMENTS PROGRAM

Project I-12-10: Hollister Avenue and Cannon Green Drive Roundabout





50' 0' 50' 100'
1 inch = 100 ft.

C:\Box\Projects\CIGOL Goleta\CIGOL.240089 GTIP-DIF 2025\5 Engl_CAD_Exhibits\Project I-12-10_RAB.dwg
Mon 06.Apr.26 01:46:00 PM

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-11 New Intersection Control - Hollister Avenue / Pebble Beach Drive

Description: New traffic signal.

Scope: New traffic signal improvements.

Limits: Intersection of Hollister Avenue and Pebble Beach Drive

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 90

		Current Year Costs		Section	
Earthwork	$	-	+	1	
Pavement Structural Section	$	-	+	2	
Drainage	$	-	+	3	
Specialty Items	$	-	+	4	
Environmental	$	-	+	5	
Traffic Items	$	840,000	+	6	
Minor Items	$	168,000	+	7	
Roadway Mobilization	$	100,800	+	8	
Roadway Contingency	$	221,800	+	9	
TOTAL ROADWAY COST	$	1,330,600	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**1,331,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	133,100	+	10%	of Construction Costs
PA&ED Support	$	133,100	+	10%	
PS&E Support	$	199,700	+	15%	
Right of Way Support	$	26,700	+	2%	
Construction Support	$	213,000	+	16%	
Support Contingency	$	141,200	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**847,000**	=		

Total Estimated Project Costs: $ 2,180,000 ✗ **Check Status**

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-11 New Intersection Control - Hollister Avenue / Pebble Beach Drive

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY		x	=	$	-	
Roadway Excavation (ADL)	CY		x	=	$	-	
Imported Borrow	CY		x	=	$	-	
Structure Excavation (Retaining Wall)	CY		x	=	$	-	
Structure Backfill (Retaining Wall)	CY		x	=	$	-	
Clearing & Grubbing	LS		x	=	$	-	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**-**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x	=	$	-	
Hot Mix Asphalt (Type A)	TN		x	=	$	-	
Class 2 Aggregate Base	CY		x	=	$	-	
Slurry Seal	TN		x	=	$	-	
Minor Concrete (Miscellaneous Construction)	CY		x	=	$	-	
Place Hot Mix Asphalt Dike	LF		x	=	$	-	
Cold Plane Asphalt Concrete Pavement	SY		x	=	$	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**-**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x	=	$	-	
Minor Concrete (Minor Structure)	CY		x	=	$	-	
Reinforced Concrete Pipe	LF		x	=	$	-	
Rock Slope Protection	CY		x	=	$	-	
Concrete (Ditch/Channel Lining)	CY		x	=	$	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x	=	$	-	
Remove Concrete Barrier	LF		x	=	$	-	
Remove Metal Beam Guard Railing	LF		x	=	$	-	
Chain Link Fence	LF		x	=	$	-	
Midwest Guardrail System (Wood Post)	LF		x	=	$	-	
Thrie Beam Barrier	LF		x	=	$	-	
Terminal System or Crash Cushion	EA		x	=	$	-	
Concrete Barrier (TYPE 60M)	LF		x	=	$	-	
Structural Concrete, Retaining Wall	CY		x	=	$	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-11 New Intersection Control - Hollister Avenue / Pebble Beach Drive

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS		x		= $	-	
Irrigation System	LS		x		= $	-	
Plant Establishment Work	LS		x		= $	-	
Implement Erosion Control	LS		x		= $	-	
Prepare and Implement SWPPP / WPCP	LS		x		= $	-	
				TOTAL ENVIRONMENTAL			**$ -**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	700,000	= $	700,000	1
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	40,000	= $	40,000	2
				TOTAL TRAFFIC ITEMS			**$ 840,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	42,000	
Stage Construction and Traffic Handling				5.0%	$	42,000	
ADA Items				5.0%	$	42,000	
Other Minor Items				5.0%	$	42,000	
Total of Section 1-6	$	840,000	x	20.0%	= $	168,000	
				TOTAL MINOR ITEMS			**$ 168,000**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	1,008,000	x	10%	= $	100,800	
				TOTAL MOBILIZATION			**$ 100,800**

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	1,108,800	x	20%	= $	221,760	
				TOTAL CONTINGENCY			**$ 221,800**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-11 New Intersection Control - Hollister Avenue / Pebble Beach Drive

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**-**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-11 New Intersection Control - Hollister Avenue / Pebble Beach Drive

NOTES AND CALCULATIONS

NOTE NO. 1

Signal and Lighting

Scale:	Major
Legs:	4
Cost:	$700,000

RESULT NO. 1 $700,000

NOTE NO. 2

Permanent Pavement Delineation

Cost	$40,000

RESULT NO. 2 $40,000

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-11 New Intersection Control - Hollister Avenue / Pebble Beach Drive

Description: New simple single-lane roundabout.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection of Hollister Avenue and Pebble Beach Drive

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 200

		Current Year Costs		Section		
Earthwork	$	758,900	+	1		
Pavement Structural Section	$	1,244,400	+	2		
Drainage	$	362,100	+	3		
Specialty Items	$	-	+	4		
Environmental	$	185,000	+	5		
Traffic Items	$	330,000	+	6		
Minor Items	$	547,300	+	7		
Roadway Mobilization	$	342,800	+	8		
Roadway Contingency	$	1,131,200	+	9		
TOTAL ROADWAY COST	$	4,901,700	=			
TOTAL STRUCTURES COST	$	-	+	10		
TOTAL CONSTRUCTION COST	**$**	**4,902,000**	=			
TOTAL RIGHT OF WAY COST	**$**	**5,805,000**	=	11		
Management Support	$	490,200	+	10%		
PA&ED Support	$	490,200	+	10%		
PS&E Support	$	735,300	+	15%		of Construction Costs
Right of Way Support	$	98,100	+	2%		
Construction Support	$	784,400	+	16%		
Support Contingency	$	519,700	+	20%		of Support Costs
TOTAL SUPPORT COST	**$**	**3,118,000**	=			

Total Estimated Project Costs: $ 13,850,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-11 New Intersection Control - Hollister Avenue / Pebble Beach Drive

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	3,565	x	110.00	= $	392,150	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	741	x	90.00	= $	66,690	2
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 758,900**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,640	x	237.97	= $	390,271	3
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	4
Slurry Seal	TN	5	x	3,507.95	= $	17,540	6
Minor Concrete (Miscellaneous Construction)	CY	547	x	1,424.58	= $	779,245	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,244,400**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 362,100**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-11 New Intersection Control - Hollister Avenue / Pebble Beach Drive

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS	1	x		= $	-	
Highway Planting	LS	1	x	100,000	= $	100,000	
Irrigation System	LS	1	x	25,000	= $	25,000	
Plant Establishment Work	LS	1	x	20,000	= $	20,000	
Implement Erosion Control	LS	1	x	20,000	= $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	20,000	= $	20,000	
				TOTAL ENVIRONMENTAL		**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS	1	x	250,000	= $	250,000	12
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	80,000	= $	80,000	13
				TOTAL TRAFFIC ITEMS		**$ 330,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	144,020	
Stage Construction and Traffic Handling				6.0%	$	172,824	
ADA Items				2.0%	$	57,608	
Other Minor Items				6.0%	$	172,824	
Total of Section 1-6	$	2,880,400	x	19.0%	= $	547,276	
				TOTAL MINOR ITEMS		**$ 547,300**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	3,427,700	x	10%	= $	342,770	
				TOTAL MOBILIZATION		**$ 342,800**	

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	3,770,500	x	30%	= $	1,131,150	
				TOTAL CONTINGENCY		**$ 1,131,200**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-11 New Intersection Control - Hollister Avenue / Pebble Beach Drive

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF	6,250	x	150.00	=	$	937,500	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF	3,000	x	1,250.00	=	$	3,750,000	
Relocation Assistance	LS	1	x	150,000	=	$	150,000	
Right of Way Contingency	LS	20%	x	4,837,500	=	$	967,500	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**5,805,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-11 New Intersection Control - Hollister Avenue / Pebble Beach Drive

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs
4 legs
250 feet average approach length
200 feet average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)
35,000
Depth of AC
0.75
Depth of base
2.00
Roadway excavation = width * length * depth
96,250
3,565 **RESULT NO. 2** **3,565**

NOTE NO. 3

Import for landscape areas
10,000 SF
Depth
2.00 feet
Volume = width * length * depth
20,000 CF
741 CY **RESULT NO. 3** **741**

NOTE NO. 4

AC pavement area
3,500 SF
Depth of AC
0.75 feet
Volume = width * length * depth
2,625 CF

AC pavement area (approaches)
40,000
Depth of AC
0.50
Volume = width * length * depth
20,000 CF

Total
22,625 CF * 145 pounds/CF / 2,000 pounds/ton
1,640 TN **RESULT NO. 4** **1,640**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-11 New Intersection Control - Hollister Avenue / Pebble Beach Drive

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
40,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
40,000 CF

45,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 6** **5**

NOTE NO. 7

New sidewalk length
200 feet At roundabout
2000 feet Approaches
2200 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
7333 CF
272 CY **RESULT NO. 7** **272**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-11 New Intersection Control - Hollister Avenue / Pebble Beach Drive

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands

1600	feet	Approaches
1600	feet	TOTAL

Volume / foot

0.03 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

41 CY

New Caltrans A2-6 curb and gutter length

200	feet	At roundabout
2000	feet	Approaches
2200	feet	TOTAL

Volume / foot

0.06 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

130 CY **RESULT NO. 8** **171**

NOTE NO. 9

Truck apron and misc

Truck apron (CAD)

2500 SF

Concrete thickness

9 inches

Volume = Minor Concrete (Miscellaneous Construction)

1875 CF

50% Additional for misc

2813 CF

104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg

8 each

Depth of drop inlets

5 feet

Drop inlet volume - Caltrans OL-10

Volume / foot

2.39 CY (3 feet deep)

0.28 CY/each additional foot of depth up to 8 feet

Volume = Minor Concrete (Minor Structure)

24 CY **RESULT NO. 10** **24**

NOTE NO. 11

Estimated length of RCP

1,500 feet **RESULT NO. 11** **1,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-11 New Intersection Control - Hollister Avenue / Pebble Beach Drive

NOTES AND CALCULATIONS

NOTE NO. 12

New street lights
12 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 480,000
Connection
$ 25,000

RESULT NO. 12 **$ 505,000**

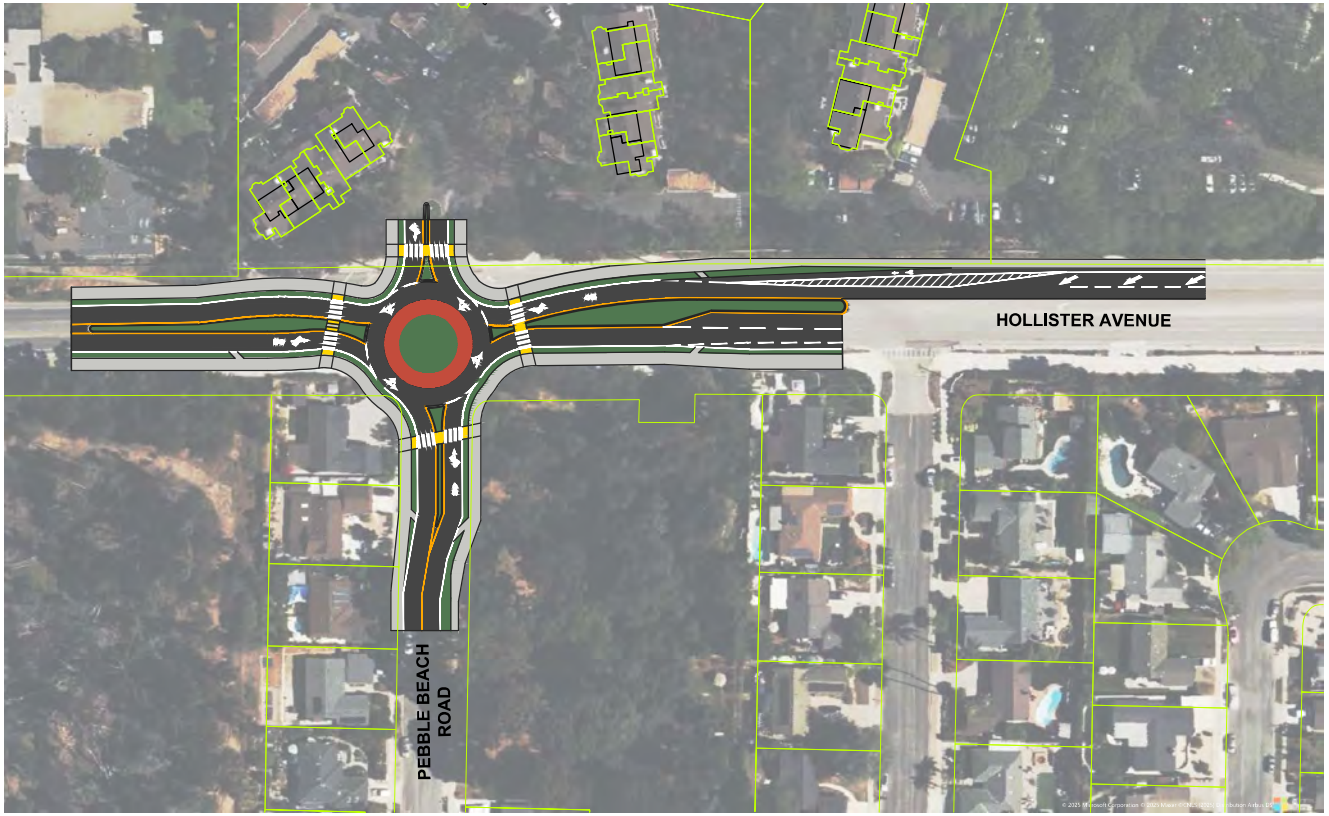
NOTE NO. 13

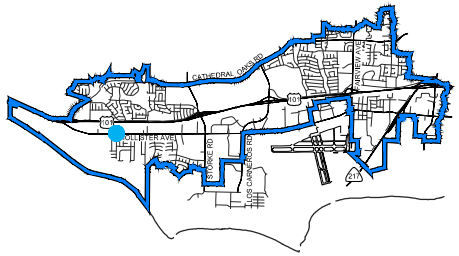
Pavement delineation and marking
$ 80,000

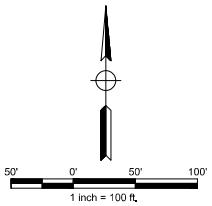
RESULT NO. 13 **80,000**

GOLETA TRANSPORTATION
IMPROVEMENTS PROGRAM

Project I-12-11: Pebble Beach Road at Hollister Avenue Roundabout







MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

Thu 23.Oct.25 08:42:58 AM C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-12-11.dwg

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-12 New Intersection Control - Hollister Avenue / La Sumida Gardens Lane

Description: New traffic signal.

Scope: New traffic signal improvements.

Limits: Intersection of Hollister Avenue and La Sumida Gardens Lane

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 90

		Current Year Costs		Section	
Earthwork	$	-	+	1	
Pavement Structural Section	$	-	+	2	
Drainage	$	-	+	3	
Specialty Items	$	-	+	4	
Environmental	$	-	+	5	
Traffic Items	$	655,000	+	6	
Minor Items	$	131,000	+	7	
Roadway Mobilization	$	78,600	+	8	
Roadway Contingency	$	173,000	+	9	
TOTAL ROADWAY COST	$	1,037,600	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**1,038,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	103,800	+	10%	of Construction Costs
PA&ED Support	$	103,800	+	10%	
PS&E Support	$	155,700	+	15%	
Right of Way Support	$	20,800	+	2%	
Construction Support	$	166,100	+	16%	
Support Contingency	$	110,100	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**661,000**	=		

Total Estimated Project Costs: $ 1,700,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-12 New Intersection Control - Hollister Avenue / La Sumida Gardens Lane

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY		x	=	$	-	
Roadway Excavation (ADL)	CY		x	=	$	-	
Imported Borrow	CY		x	=	$	-	
Structure Excavation (Retaining Wall)	CY		x	=	$	-	
Structure Backfill (Retaining Wall)	CY		x	=	$	-	
Clearing & Grubbing	LS		x	=	$	-	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**-**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x	=	$	-	
Hot Mix Asphalt (Type A)	TN		x	=	$	-	
Class 2 Aggregate Base	CY		x	=	$	-	
Slurry Seal	TN		x	=	$	-	
Minor Concrete (Miscellaneous Construction)	CY		x	=	$	-	
Place Hot Mix Asphalt Dike	LF		x	=	$	-	
Cold Plane Asphalt Concrete Pavement	SY		x	=	$	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**-**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x	=	$	-	
Minor Concrete (Minor Structure)	CY		x	=	$	-	
Reinforced Concrete Pipe	LF		x	=	$	-	
Rock Slope Protection	CY		x	=	$	-	
Concrete (Ditch/Channel Lining)	CY		x	=	$	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x	=	$	-	
Remove Concrete Barrier	LF		x	=	$	-	
Remove Metal Beam Guard Railing	LF		x	=	$	-	
Chain Link Fence	LF		x	=	$	-	
Midwest Guardrail System (Wood Post)	LF		x	=	$	-	
Thrie Beam Barrier	LF		x	=	$	-	
Terminal System or Crash Cushion	EA		x	=	$	-	
Concrete Barrier (TYPE 60M)	LF		x	=	$	-	
Structural Concrete, Retaining Wall	CY		x	=	$	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-12 New Intersection Control - Hollister Avenue / La Sumida Gardens Lane

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS		x		= $	-	
Irrigation System	LS		x		= $	-	
Plant Establishment Work	LS		x		= $	-	
Implement Erosion Control	LS		x		= $	-	
Prepare and Implement SWPPP / WPCP	LS		x		= $	-	
				TOTAL ENVIRONMENTAL		**$**	**-**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	525,000	= $	525,000	1
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	30,000	= $	30,000	2
				TOTAL TRAFFIC ITEMS		**$**	**655,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	32,750	
Stage Construction and Traffic Handling				5.0%	$	32,750	
ADA Items				5.0%	$	32,750	
Other Minor Items				5.0%	$	32,750	
Total of Section 1-6	$	655,000	x	20.0%	= $	131,000	
				TOTAL MINOR ITEMS		**$**	**131,000**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	786,000	x	10%	= $	78,600	
				TOTAL MOBILIZATION		**$**	**78,600**

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	864,600	x	20%	= $	172,920	
				TOTAL CONTINGENCY		**$**	**173,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-12 New Intersection Control - Hollister Avenue / La Sumida Gardens Lane

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**-**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-12 New Intersection Control - Hollister Avenue / La Sumida Gardens Lane

NOTES AND CALCULATIONS

NOTE NO. 1

Signal and Lighting

Scale:	Major		
Legs:	3		
Cost:	$525,000	**RESULT NO. 1**	$525,000

NOTE NO. 2

Permanent Pavement Delineation

Cost	$30,000	**RESULT NO. 2**	$30,000

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-12 New Intersection Control - Hollister Avenue / La Sumida Lane

Description: New simple single-lane roundabout.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection of Hollister Avenue and La Sumida Lane

Estimate Type: Planning (City) Estimate Date: 16-Jan-26

Working Days: 200

		Current Year Costs		Section
Earthwork	$	709,000	+	1
Pavement Structural Section	$	868,600	+	2
Drainage	$	362,100	+	3
Specialty Items	$	-	+	4
Environmental	$	185,000	+	5
Traffic Items	$	330,000	+	6
Minor Items	$	466,400	+	7
Roadway Mobilization	$	292,200	+	8
Roadway Contingency	$	964,000	+	9
TOTAL ROADWAY COST	$	4,177,300	=	
TOTAL STRUCTURES COST	$	-	+	10
TOTAL CONSTRUCTION COST	**$**	**4,177,000**	=	
TOTAL RIGHT OF WAY COST	**$**	**4,275,000**	=	11
Management Support	$	417,700	+	10%
PA&ED Support	$	417,700	+	10%
PS&E Support	$	626,600	+	15%
Right of Way Support	$	83,600	+	2%
Construction Support	$	668,400	+	16%
Support Contingency	$	442,800	+	20%
TOTAL SUPPORT COST	**$**	**2,657,000**	=	

of Construction Costs

of Support Costs

Total Estimated Project Costs: $ 11,150,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-12 New Intersection Control - Hollister Avenue / La Sumida Lane

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	2,139	x	160.00	= $	342,240	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	741	x	90.00	= $	66,690	2
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 709,000**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,060	x	237.97	= $	252,248	3
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	4
Slurry Seal	TN	3	x	3,507.95	= $	10,524	6
Minor Concrete (Miscellaneous Construction)	CY	385	x	1,424.58	= $	548,463	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 868,600**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 362,100**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-12 New Intersection Control - Hollister Avenue / La Sumida Lane

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS	1	x		= $	-	
Highway Planting	LS	1	x	100,000	= $	100,000	
Irrigation System	LS	1	x	25,000	= $	25,000	
Plant Establishment Work	LS	1	x	20,000	= $	20,000	
Implement Erosion Control	LS	1	x	20,000	= $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	20,000	= $	20,000	
				TOTAL ENVIRONMENTAL		**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS	1	x	250,000	= $	250,000	12
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	80,000	= $	80,000	13
				TOTAL TRAFFIC ITEMS		**$ 330,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	122,735	
Stage Construction and Traffic Handling				6.0%	$	147,282	
ADA Items				2.0%	$	49,094	
Other Minor Items				6.0%	$	147,282	
Total of Section 1-6	$	2,454,700	x	19.0%	= $	466,393	
				TOTAL MINOR ITEMS		**$ 466,400**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	2,921,100	x	10%	= $	292,110	
				TOTAL MOBILIZATION		**$ 292,200**	

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	3,213,300	x	30%	= $	963,990	
				TOTAL CONTINGENCY		**$ 964,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-12 New Intersection Control - Hollister Avenue / La Sumida Lane

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	14,250	x	250.00	=	$	3,562,500	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	3,562,500	=	$	712,500	
		TOTAL RIGHT OF WAY ESTIMATE					**$ 4,275,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-12 New Intersection Control - Hollister Avenue / La Sumida Lane

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs

4	legs	
150	feet	average approach length
125	feet	average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)

21,000

Depth of AC

0.75

Depth of base

2.00

Roadway excavation = width * length * depth

57,750

2,139 **RESULT NO. 2** **2,139**

NOTE NO. 3

Import for landscape areas

10,000 SF

Depth

2.00 feet

Volume = width * length * depth

20,000 CF

741 CY **RESULT NO. 3** **741**

NOTE NO. 4

AC pavement area

3,500 SF

Depth of AC

0.75 feet

Volume = width * length * depth

2,625 CF

AC pavement area (approaches)

24,000

Depth of AC

0.50

Volume = width * length * depth

12,000 CF

Total

14,625 CF * 145 pounds/CF / 2,000 pounds/ton

1,060 TN **RESULT NO. 4** **1,060**

I-12-12 New Intersection Control - Hollister Avenue / La Sumida Lane

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
24,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
24,000 CF

29,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
150 feet
Width
30 feet
Area
4,500 feet
Coverage rate
1,500 SF/TN
3 CY **RESULT NO. 6** **3**

NOTE NO. 7

New sidewalk length
200 feet At roundabout
1200 feet Approaches
1400 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
4667 CF
173 CY **RESULT NO. 7** **173**

I-12-12 New Intersection Control - Hollister Avenue / La Sumida Lane

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands
1000 feet Approaches
1000 feet TOTAL
Volume / foot
0.03 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
26 CY
New Caltrans A2-6 curb and gutter length
200 feet At roundabout
1200 feet Approaches
1400 feet TOTAL
Volume / foot
0.06 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
83 CY **RESULT NO. 8** **108**

NOTE NO. 9

Truck apron and misc
Truck apron (CAD)
2500 SF
Concrete thickness
9 inches
Volume = Minor Concrete (Miscellaneous Construction)
1875 CF
50% Additional for misc
2813 CF
104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg
8 each
Depth of drop inlets
5 feet
Drop inlet volume - Caltrans OL-10
Volume / foot
2.39 CY (3 feet deep)
0.28 CY/each additional foot of depth up to 8 feet
Volume = Minor Concrete (Minor Structure)
24 CY **RESULT NO. 10** **24**

NOTE NO. 11

Estimated length of RCP
1,500 feet **RESULT NO. 11** **1,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-12 New Intersection Control - Hollister Avenue / La Sumida Lane

NOTES AND CALCULATIONS

NOTE NO. 12

New street lights
12 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 480,000
Connection
$ 25,000

RESULT NO. 12 **$ 505,000**

NOTE NO. 13

Pavement delineation and marking
$ 80,000

RESULT NO. 13 **80,000**

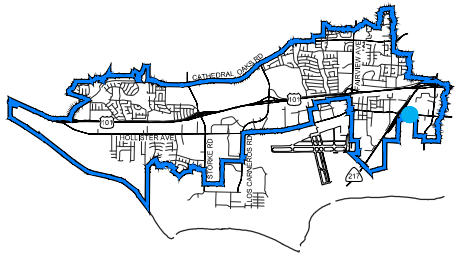


50' 0' 50' 100'

1 inch = 100 ft.

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-12-12: Hollister Avenue and La Sumeda Gardens Roundabout



MNS

201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-12-12.dwg
Mon 03 Feb 26 03:53:02 PM

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-23 New Intersection Control - Carlo Drive / Cathedral Oaks Road

Description: New simple single-lane roundabout.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection of Cathedral Oaks Road and Carlo Drive

Estimate Type: Planning (City) Estimate Date: 20-Jan-26

Working Days: 200

		Current Year Costs		Section	
Earthwork	$	758,900	+	1	
Pavement Structural Section	$	1,244,400	+	2	
Drainage	$	362,100	+	3	
Specialty Items	$	-	+	4	
Environmental	$	185,000	+	5	
Traffic Items	$	330,000	+	6	
Minor Items	$	547,300	+	7	
Roadway Mobilization	$	342,800	+	8	
Roadway Contingency	$	1,131,200	+	9	
TOTAL ROADWAY COST	$	4,901,700	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**4,902,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	490,200	+	10%	of Construction Costs
PA&ED Support	$	490,200	+	10%	
PS&E Support	$	735,300	+	15%	
Right of Way Support	$	98,100	+	2%	
Construction Support	$	784,400	+	16%	
Support Contingency	$	519,700	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**3,118,000**	=		

Total Estimated Project Costs: $ 8,050,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-23 New Intersection Control - Carlo Drive / Cathedral Oaks Road

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	3,565	x	110.00	= $	392,150	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	741	x	90.00	= $	66,690	2
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 758,900**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,640	x	237.97	= $	390,271	3
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	4
Slurry Seal	TN	5	x	3,507.95	= $	17,540	6
Minor Concrete (Miscellaneous Construction)	CY	547	x	1,424.58	= $	779,245	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,244,400**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 362,100**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-23 New Intersection Control - Carlo Drive / Cathedral Oaks Road

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS	1	x		= $	-	
Highway Planting	LS	1	x	100,000	= $	100,000	
Irrigation System	LS	1	x	25,000	= $	25,000	
Plant Establishment Work	LS	1	x	20,000	= $	20,000	
Implement Erosion Control	LS	1	x	20,000	= $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	20,000	= $	20,000	
				TOTAL ENVIRONMENTAL		**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS	1	x	250,000	= $	250,000	12
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	80,000	= $	80,000	13
				TOTAL TRAFFIC ITEMS		**$ 330,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	144,020	
Stage Construction and Traffic Handling				6.0%	$	172,824	
ADA Items				2.0%	$	57,608	
Other Minor Items				6.0%	$	172,824	
Total of Section 1-6	$	2,880,400	x	19.0%	= $	547,276	
				TOTAL MINOR ITEMS		**$ 547,300**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	3,427,700	x	10%	= $	342,770	
				TOTAL MOBILIZATION		**$ 342,800**	

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	3,770,500	x	30%	= $	1,131,150	
				TOTAL CONTINGENCY		**$ 1,131,200**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-23 New Intersection Control - Carlo Drive / Cathedral Oaks Road

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
		TOTAL RIGHT OF WAY ESTIMATE				**$**	**-**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-23 New Intersection Control - Carlo Drive / Cathedral Oaks Road

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs
4 legs
250 feet average approach length
200 feet average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)
35,000
Depth of AC
0.75
Depth of base
2.00
Roadway excavation = width * length * depth
96,250
3,565 **RESULT NO. 2** **3,565**

NOTE NO. 3

Import for landscape areas
10,000 SF
Depth
2.00 feet
Volume = width * length * depth
20,000 CF
741 CY **RESULT NO. 3** **741**

NOTE NO. 4

AC pavement area
3,500 SF
Depth of AC
0.75 feet
Volume = width * length * depth
2,625 CF

AC pavement area (approaches)
40,000
Depth of AC
0.50
Volume = width * length * depth
20,000 CF

Total
22,625 CF * 145 pounds/CF / 2,000 pounds/ton
1,640 TN **RESULT NO. 4** **1,640**

I-12-23 New Intersection Control - Carlo Drive / Cathedral Oaks Road

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
40,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
40,000 CF

45,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 6** **5**

NOTE NO. 7

New sidewalk length
200 feet At roundabout
2000 feet Approaches
2200 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
7333 CF
272 CY **RESULT NO. 7** **272**

I-12-23 New Intersection Control - Carlo Drive / Cathedral Oaks Road

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands

1600	feet	Approaches
1600	feet	TOTAL

Volume / foot

0.03 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

41 CY

New Caltrans A2-6 curb and gutter length

200	feet	At roundabout
2000	feet	Approaches
2200	feet	TOTAL

Volume / foot

0.06 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

130 CY **RESULT NO. 8** **171**

NOTE NO. 9

Truck apron and misc

Truck apron (CAD)

2500 SF

Concrete thickness

9 inches

Volume = Minor Concrete (Miscellaneous Construction)

1875 CF

50% Additional for misc

2813 CF

104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg

8 each

Depth of drop inlets

5 feet

Drop inlet volume - Caltrans OL-10

Volume / foot

2.39 CY (3 feet deep)

0.28 CY/each additional foot of depth up to 8 feet

Volume = Minor Concrete (Minor Structure)

24 CY **RESULT NO. 10** **24**

NOTE NO. 11

Estimated length of RCP

1,500 feet **RESULT NO. 11** **1,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-23 New Intersection Control - Carlo Drive / Cathedral Oaks Road

NOTES AND CALCULATIONS

NOTE NO. 12

New street lights
12 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 480,000
Connection
$ 25,000

RESULT NO. 12 **$ 505,000**

NOTE NO. 13

Pavement delineation and marking
$ 80,000

RESULT NO. 13 **80,000**



50' 0' 50' 100'

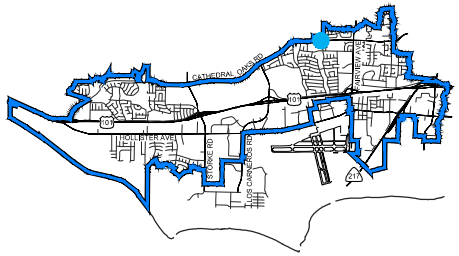
1 inch = 100 ft.

C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-12-23.dwg

Thu 23 Oct 25 08:37:12 AM

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-12-23: Carlo Drive and Cathedral Oaks Road Roundabout



MNS

201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-27 New Intersection Control - Cathedral Oaks / 101 SB-Ramp

Description: New simple single-lane roundabout.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection of Cathedral Oaks Road and 101 SB Ramps

Estimate Type: Planning (Caltrans) Estimate Date: 15-Jan-26

Working Days: 220

		Current Year Costs		Section	
Earthwork	$	758,900	+	1	
Pavement Structural Section	$	1,244,400	+	2	
Drainage	$	362,100	+	3	
Specialty Items	$	624,400	+	4	
Environmental	$	185,000	+	5	
Traffic Items	$	330,000	+	6	
Minor Items	$	666,000	+	7	
Roadway Mobilization	$	417,100	+	8	
Roadway Contingency	$	1,376,400	+	9	
TOTAL ROADWAY COST	$	5,964,300	=		
TOTAL STRUCTURES COST	$	14,414,400	+	10	
TOTAL CONSTRUCTION COST	**$**	**20,379,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**650,000**	=	11	
Management Support	$	2,037,900	+	10%	of Construction Costs
PA&ED Support	$	2,037,900	+	10%	
PS&E Support	$	3,056,900	+	15%	
Right of Way Support	$	407,600	+	2%	
Construction Support	$	3,260,700	+	16%	
Support Contingency	$	2,160,200	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**12,962,000**	=		

Total Estimated Project Costs: $ 34,000,000 ✗ **Check Status**

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-27 New Intersection Control - Cathedral Oaks / 101 SB-Ramp

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	3,565	x	110.00	= $	392,150	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	741	x	90.00	= $	66,690	2
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 758,900**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,640	x	237.97	= $	390,271	3
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	4
Slurry Seal	TN	5	x	3,507.95	= $	17,540	6
Minor Concrete (Miscellaneous Construction)	CY	547	x	1,424.58	= $	779,245	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,244,400**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 362,100**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY	326	x	1,915.28	= $	624,381	14
				TOTAL SPECIALTY ITEMS		**$ 624,400**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-27 New Intersection Control - Cathedral Oaks / 101 SB-Ramp

SECTION 5: ENVIRONMENTAL	Unit	Quantity	Unit Price ($)	Cost	Notes
Biological Mitigation	LS	1	x = $	-	
Highway Planting	LS	1	x 100,000 = $	100,000	
Irrigation System	LS	1	x 25,000 = $	25,000	
Plant Establishment Work	LS	1	x 20,000 = $	20,000	
Implement Erosion Control	LS	1	x 20,000 = $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x 20,000 = $	20,000	
			TOTAL ENVIRONMENTAL	**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity	Unit Price ($)	Cost	Notes
Lighting and Sign Illumination	LS	1	x 250,000 = $	250,000	12
Signal and Lighting	LS		x = $	-	
Ramp Metering System	LS		x = $	-	
Interconnection Conduit and Cable	LS		x = $	-	
Furnish and Install Sign Structure	LS		x = $	-	
CIDH Pile (Sign Foundation)	LS		x = $	-	
Remove Sign Structure	LS		x = $	-	
Permanent Pavement Delineation	LS	1	x 80,000 = $	80,000	13
			TOTAL TRAFFIC ITEMS	**$ 330,000**	

SECTION 7: MINOR ITEMS				Notes
Traffic Management Plan and Detours		5.0%	$ 175,240	
Stage Construction and Traffic Handling		6.0%	$ 210,288	
ADA Items		2.0%	$ 70,096	
Other Minor Items		6.0%	$ 210,288	
Total of Section 1-6	$ 3,504,800	x 19.0% =	$ 665,912	
		TOTAL MINOR ITEMS	**$ 666,000**	

SECTIONS 8: MOBILIZATION				
Total Section 1-7	$ 4,170,800	x 10% =	$ 417,080	
		TOTAL MOBILIZATION	**$ 417,100**	

SECTION 9: ROADWAY CONTINGENCY				
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)				
Total Section 1-8	$ 4,587,900	x 30% =	$ 1,376,370	
		TOTAL CONTINGENCY	**$ 1,376,400**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-27 New Intersection Control - Cathedral Oaks / 101 SB-Ramp

SECTION 10: STRUCTURES ITEMS

Name / ID	RR OH		xxxxxxxxx		xxxxxxxxx	
Structure Type	PC/PS Box		--Select Bridge Type--		--Select Bridge Type--	
Width (Feet) [out to out]	40	LF	0	LF	0	LF
Total Bridge Length	210	LF	0	LF	0	LF
Total Area (Square Feet)	8400	SQFT	0	SQFT	0	SQFT
Complexity	6		5		5	
Unusual Features	2		0		0	
Cost Per Square Foot	$1,200		$0		$0	
COST OF EACH BRIDGE	$	10,080,000	$	-	$	-

Name / ID	xxxxxxxxx		xxxxxxxxx		xxxxxxxxx	
Structure Type	--Select Bridge Type--		--Select Bridge Type--		--Select Bridge Type--	
Width (Feet) [out to out]	0	LF	0	LF	0	LF
Total Bridge Length	0	LF	0	LF	0	LF
Total Area (Square Feet)	0	SQFT	0	SQFT	0	SQFT
Complexity	5		5		5	
Unusual Features	0		0		0	
Cost Per Square Foot	$0		$0		$0	
COST OF EACH BRIDGE	$	-	$	-	$	-

TOTAL COST OF BRIDGES		$	10,080,000
Structures Mobilization Percentage	10%	$	1,008,000
Structures Contingency Percentage	30%	$	3,326,400
TOTAL COST OF STRUCTURES		**$**	**14,414,400**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS	1	x	250,000	=	$	250,000	
Railroad - Flaggers	LS	1	x	250,000	=	$	250,000	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	30%	x	500,000	=	$	150,000	
		TOTAL RIGHT OF WAY ESTIMATE				**$**	**650,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-27 New Intersection Control - Cathedral Oaks / 101 SB-Ramp

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs
4 legs
250 feet average approach length
200 feet average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)
35,000
Depth of AC
0.75
Depth of base
2.00
Roadway excavation = width * length * depth
96,250
3,565 **RESULT NO. 2** **3,565**

NOTE NO. 3

Import for landscape areas
10,000 SF
Depth
2.00 feet
Volume = width * length * depth
20,000 CF
741 CY **RESULT NO. 3** **741**

NOTE NO. 4

AC pavement area
3,500 SF
Depth of AC
0.75 feet
Volume = width * length * depth
2,625 CF

AC pavement area (approaches)
40,000
Depth of AC
0.50
Volume = width * length * depth
20,000 CF

Total
22,625 CF * 145 pounds/CF / 2,000 pounds/ton
1,640 TN **RESULT NO. 4** **1,640**

I-12-27 New Intersection Control - Cathedral Oaks / 101 SB-Ramp

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
40,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
40,000 CF

45,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 6** **5**

NOTE NO. 7

New sidewalk length
200 feet At roundabout
2000 feet Approaches
2200 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
7333 CF
272 CY **RESULT NO. 7** **272**

I-12-27 New Intersection Control - Cathedral Oaks / 101 SB-Ramp

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands
1600 feet Approaches
1600 feet TOTAL
Volume / foot
0.03 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
41 CY
New Caltrans A2-6 curb and gutter length
200 feet At roundabout
2000 feet Approaches
2200 feet TOTAL
Volume / foot
0.06 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
130 CY **RESULT NO. 8** **171**

NOTE NO. 9

Truck apron and misc
Truck apron (CAD)
2500 SF
Concrete thickness
9 inches
Volume = Minor Concrete (Miscellaneous Construction)
1875 CF
50% Additional for misc
2813 CF
104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg
8 each
Depth of drop inlets
5 feet
Drop inlet volume - Caltrans OL-10
Volume / foot
2.39 CY (3 feet deep)
0.28 CY/each additional foot of depth up to 8 feet
Volume = Minor Concrete (Minor Structure)
24 CY **RESULT NO. 10** **24**

NOTE NO. 11

Estimated length of RCP
1,500 feet **RESULT NO. 11** **1,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-27 New Intersection Control - Cathedral Oaks / 101 SB-Ramp

NOTES AND CALCULATIONS

NOTE NO. 12

New street lights
12 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 480,000
Connection
$ 25,000

RESULT NO. 12 **$ 505,000**

NOTE NO. 13

Pavement delineation and marking
$ 80,000

RESULT NO. 13 **80,000**

NOTE NO. 14

Retaining walls

100	feet	Length
8	feet	Average Height
1	feet	Stem Thickness
12	feet	Footing Width
1.5	feet	Footing Thickness

Volume = Minor Concrete (Minor Structure)
96 CY

200	feet	Length
10	feet	Average Height
1	feet	Stem Thickness
14	feet	Footing Width
1.5	feet	Footing Thickness

Volume = Minor Concrete (Minor Structure)
230 CY

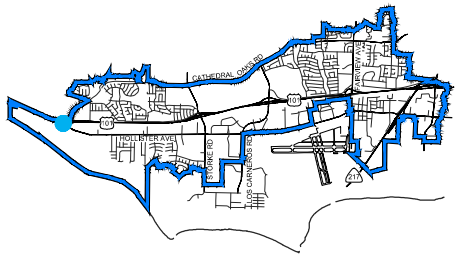
RESULT NO. 14 **326**



50' 0' 50' 100'
1 inch = 100 ft.

GOLETA TRANSPORTATION
IMPROVEMENTS PROGRAM

Project I-12-27: Cathedral Oaks Road and 101 Southbound Ramps Roundabout



MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-12-27.dwg
Thu 23.Oct.25 08:26:57 AM

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-30 New Intersection Control - Hollister Avenue / Palo Alto Drive

Description: New simple single-lane roundabout.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection of Hollister Avenue and Palo Alto Drive

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 200

		Current Year Costs		Section	
Earthwork	$	758,900	+	1	
Pavement Structural Section	$	1,244,400	+	2	
Drainage	$	362,100	+	3	
Specialty Items	$	-	+	4	
Environmental	$	185,000	+	5	
Traffic Items	$	330,000	+	6	
Minor Items	$	547,300	+	7	
Roadway Mobilization	$	342,800	+	8	
Roadway Contingency	$	1,131,200	+	9	
TOTAL ROADWAY COST	$	4,901,700	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**4,902,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**2,145,000**	=	11	
Management Support	$	490,200	+	10%	of Construction Costs
PA&ED Support	$	490,200	+	10%	
PS&E Support	$	735,300	+	15%	
Right of Way Support	$	98,100	+	2%	
Construction Support	$	784,400	+	16%	
Support Contingency	$	519,700	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**3,118,000**	=		

Total Estimated Project Costs: $ 10,200,000 ✗ **Check Status**

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-30 New Intersection Control - Hollister Avenue / Palo Alto Drive

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	3,565	x	110.00	= $	392,150	2
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	741	x	90.00	= $	66,690	3
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 758,900**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,640	x	237.97	= $	390,271	4
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	5
Slurry Seal	TN	5	x	3,507.95	= $	17,540	6
Minor Concrete (Miscellaneous Construction)	CY	547	x	1,424.58	= $	779,245	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,244,400**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 362,100**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-30 New Intersection Control - Hollister Avenue / Palo Alto Drive

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS	1	x		= $	-	
Highway Planting	LS	1	x	100,000	= $	100,000	
Irrigation System	LS	1	x	25,000	= $	25,000	
Plant Establishment Work	LS	1	x	20,000	= $	20,000	
Implement Erosion Control	LS	1	x	20,000	= $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	20,000	= $	20,000	
				TOTAL ENVIRONMENTAL		**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS	1	x	250,000	= $	250,000	12
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	80,000	= $	80,000	13
				TOTAL TRAFFIC ITEMS		**$ 330,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	144,020	
Stage Construction and Traffic Handling				6.0%	$	172,824	
ADA Items				2.0%	$	57,608	
Other Minor Items				6.0%	$	172,824	
Total of Section 1-6	$	2,880,400	x	19.0%	= $	547,276	
				TOTAL MINOR ITEMS		**$ 547,300**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	3,427,700	x	10%	= $	342,770	
				TOTAL MOBILIZATION		**$ 342,800**	

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	3,770,500	x	30%	= $	1,131,150	
				TOTAL CONTINGENCY		**$ 1,131,200**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-30 New Intersection Control - Hollister Avenue / Palo Alto Drive

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF	250	x	150.00	=	$	37,500	
Acquisition - Commercial Property	SF	7,000	x	250.00	=	$	1,750,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	1,787,500	=	$	357,500	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**2,145,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-30 New Intersection Control - Hollister Avenue / Palo Alto Drive

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs

4 legs

250 feet average approach length

200 feet average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)

35,000

Depth of AC

0.75

Depth of base

2.00

Roadway excavation = width * length * depth

96,250

3,565 **RESULT NO. 2** **3,565**

NOTE NO. 3

Import for landscape areas

10,000 SF

Depth

2.00 feet

Volume = width * length * depth

20,000 CF

741 CY **RESULT NO. 3** **741**

NOTE NO. 4

AC pavement area

3,500 SF

Depth of AC

0.75 feet

Volume = width * length * depth

2,625 CF

AC pavement area (approaches)

40,000

Depth of AC

0.50

Volume = width * length * depth

20,000 CF

Total

22,625 CF * 145 pounds/CF / 2,000 pounds/ton

1,640 TN **RESULT NO. 4** **1,640**

I-12-30 New Intersection Control - Hollister Avenue / Palo Alto Drive

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
40,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
40,000 CF

45,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 6** **5**

NOTE NO. 7

New sidewalk length
200 feet At roundabout
2000 feet Approaches
2200 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
7333 CF
272 CY **RESULT NO. 7** **272**

I-12-30 New Intersection Control - Hollister Avenue / Palo Alto Drive

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands

1600	feet	Approaches
1600	feet	TOTAL

Volume / foot

0.03 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

41 CY

New Caltrans A2-6 curb and gutter length

200	feet	At roundabout
2000	feet	Approaches
2200	feet	TOTAL

Volume / foot

0.06 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

130 CY **RESULT NO. 8** **171**

NOTE NO. 9

Truck apron and misc

Truck apron (CAD)

2500 SF

Concrete thickness

9 inches

Volume = Minor Concrete (Miscellaneous Construction)

1875 CF

50% Additional for misc

2813 CF

104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg

8 each

Depth of drop inlets

5 feet

Drop inlet volume - Caltrans OL-10

Volume / foot

2.39 CY (3 feet deep)

0.28 CY/each additional foot of depth up to 8 feet

Volume = Minor Concrete (Minor Structure)

24 CY **RESULT NO. 10** **24**

NOTE NO. 11

Estimated length of RCP

1,500 feet **RESULT NO. 11** **1,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-30 New Intersection Control - Hollister Avenue / Palo Alto Drive

NOTES AND CALCULATIONS

NOTE NO. 12

New street lights
12 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 480,000
Connection
$ 25,000

RESULT NO. 12 **$ 505,000**

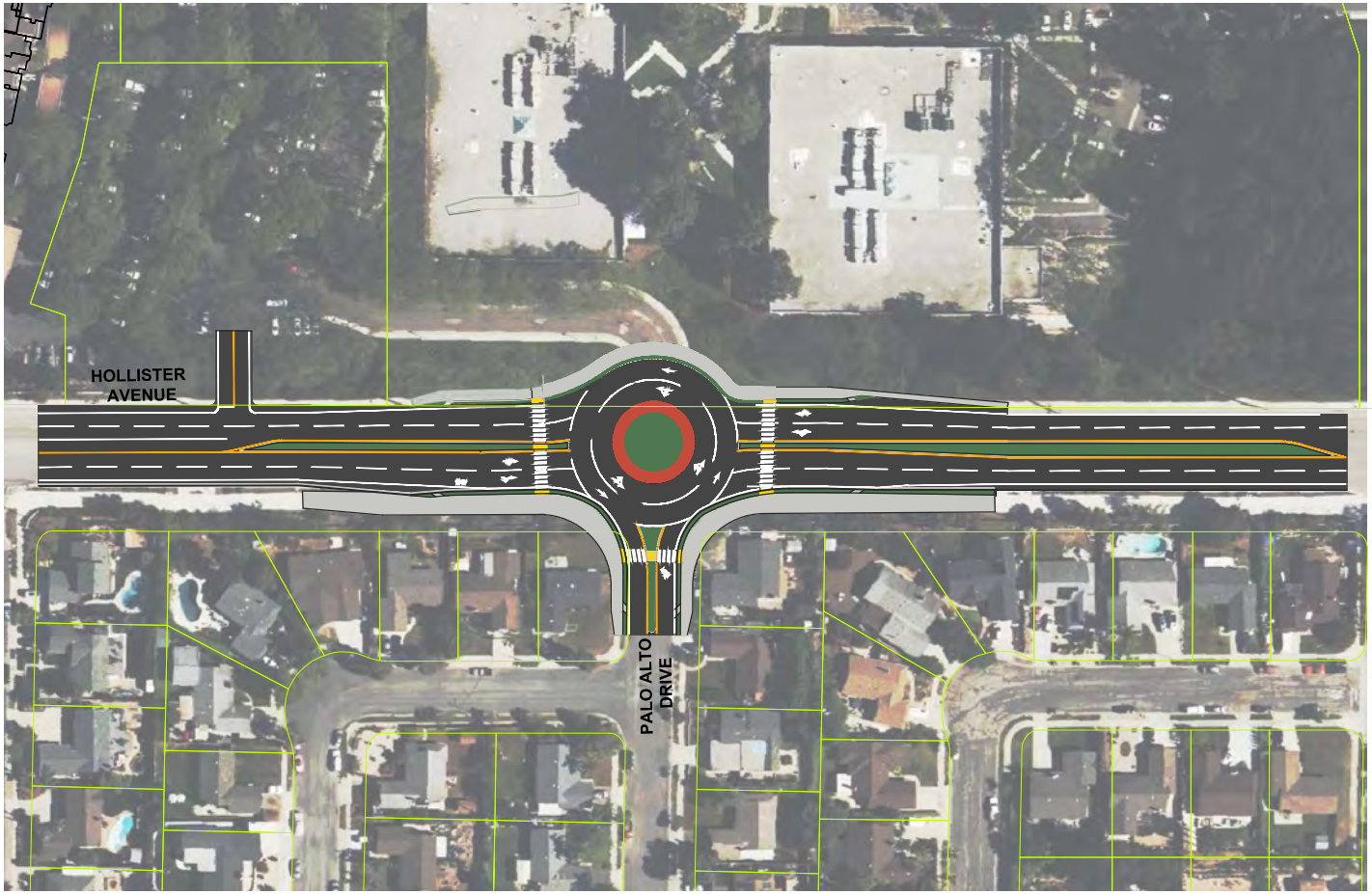
NOTE NO. 13

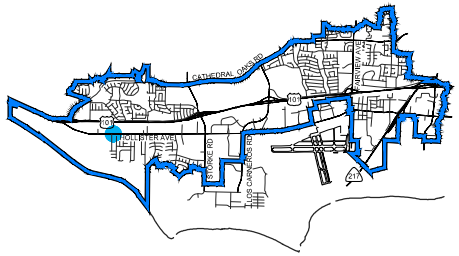
Pavement delineation and marking
$ 80,000

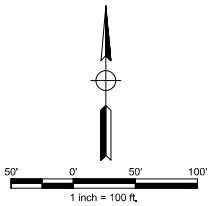
RESULT NO. 13 **80,000**

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-12-30: Hollister Avenue and Palo Alto Drive Roundabout







MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

Thu 05-Feb-26 03:44:50 PM C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-12-30.dwg

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-31 New Intersection Control - Hollister Avenue / Santa Felicia Drive

Description: New traffic signal.

Scope: New traffic signal improvements.

Limits: Intersection of Hollister Avenue and Santa Felicia Drive

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 90

		Current Year Costs		Section	
Earthwork	$	-	+	1	
Pavement Structural Section	$	-	+	2	
Drainage	$	-	+	3	
Specialty Items	$	-	+	4	
Environmental	$	-	+	5	
Traffic Items	$	840,000	+	6	
Minor Items	$	168,000	+	7	
Roadway Mobilization	$	100,800	+	8	
Roadway Contingency	$	221,800	+	9	
TOTAL ROADWAY COST	$	1,330,600	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**1,331,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	133,100	+	10%	of Construction Costs
PA&ED Support	$	133,100	+	10%	
PS&E Support	$	199,700	+	15%	
Right of Way Support	$	26,700	+	2%	
Construction Support	$	213,000	+	16%	
Support Contingency	$	141,200	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**847,000**	=		

Total Estimated Project Costs: $ 2,180,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-31 New Intersection Control - Hollister Avenue / Santa Felicia Drive

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY		x	=	$	-	
Roadway Excavation (ADL)	CY		x	=	$	-	
Imported Borrow	CY		x	=	$	-	
Structure Excavation (Retaining Wall)	CY		x	=	$	-	
Structure Backfill (Retaining Wall)	CY		x	=	$	-	
Clearing & Grubbing	LS		x	=	$	-	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**-**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x	=	$	-	
Hot Mix Asphalt (Type A)	TN		x	=	$	-	
Class 2 Aggregate Base	CY		x	=	$	-	
Slurry Seal	TN		x	=	$	-	
Minor Concrete (Miscellaneous Construction)	CY		x	=	$	-	
Place Hot Mix Asphalt Dike	LF		x	=	$	-	
Cold Plane Asphalt Concrete Pavement	SY		x	=	$	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**-**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x	=	$	-	
Minor Concrete (Minor Structure)	CY		x	=	$	-	
Reinforced Concrete Pipe	LF		x	=	$	-	
Rock Slope Protection	CY		x	=	$	-	
Concrete (Ditch/Channel Lining)	CY		x	=	$	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x	=	$	-	
Remove Concrete Barrier	LF		x	=	$	-	
Remove Metal Beam Guard Railing	LF		x	=	$	-	
Chain Link Fence	LF		x	=	$	-	
Midwest Guardrail System (Wood Post)	LF		x	=	$	-	
Thrie Beam Barrier	LF		x	=	$	-	
Terminal System or Crash Cushion	EA		x	=	$	-	
Concrete Barrier (TYPE 60M)	LF		x	=	$	-	
Structural Concrete, Retaining Wall	CY		x	=	$	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-31 New Intersection Control - Hollister Avenue / Santa Felicia Drive

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS		x		= $	-	
Irrigation System	LS		x		= $	-	
Plant Establishment Work	LS		x		= $	-	
Implement Erosion Control	LS		x		= $	-	
Prepare and Implement SWPPP / WPCP	LS		x		= $	-	
				TOTAL ENVIRONMENTAL			**$ -**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	700,000	= $	700,000	1
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	40,000	= $	40,000	2
				TOTAL TRAFFIC ITEMS			**$ 840,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	42,000	
Stage Construction and Traffic Handling				5.0%	$	42,000	
ADA Items				5.0%	$	42,000	
Other Minor Items				5.0%	$	42,000	
Total of Section 1-6	$	840,000	x	20.0%	= $	168,000	
				TOTAL MINOR ITEMS			**$ 168,000**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	1,008,000	x	10%	= $	100,800	
				TOTAL MOBILIZATION			**$ 100,800**

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	1,108,800	x	20%	= $	221,760	
				TOTAL CONTINGENCY			**$ 221,800**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-31 New Intersection Control - Hollister Avenue / Santa Felicia Drive

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-31 New Intersection Control - Hollister Avenue / Santa Felicia Drive

NOTES AND CALCULATIONS

NOTE NO. 1

Signal and Lighting

Scale:	Major		
Legs:	4		
Cost:	$700,000	**RESULT NO. 1**	$700,000

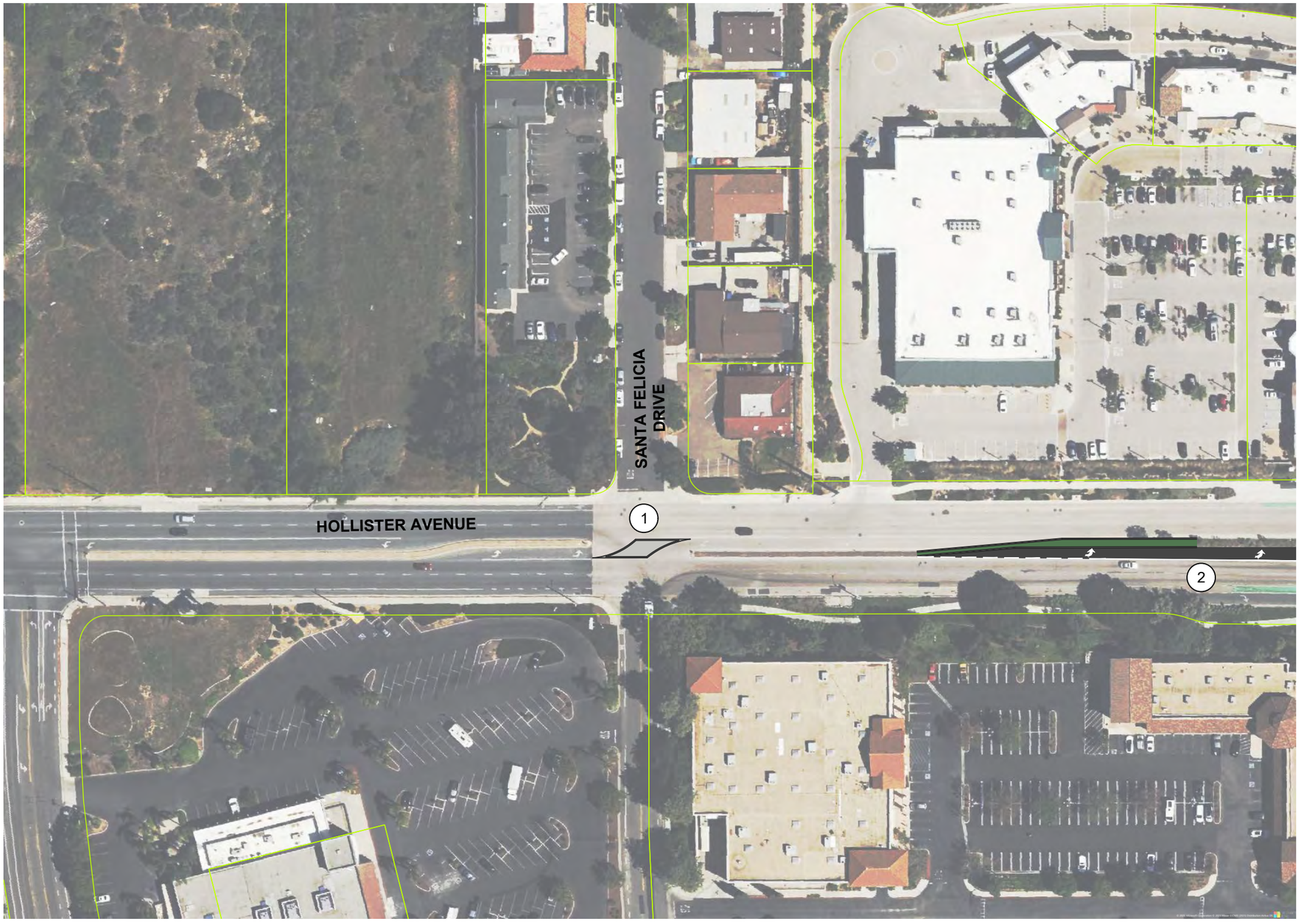
NOTE NO. 2

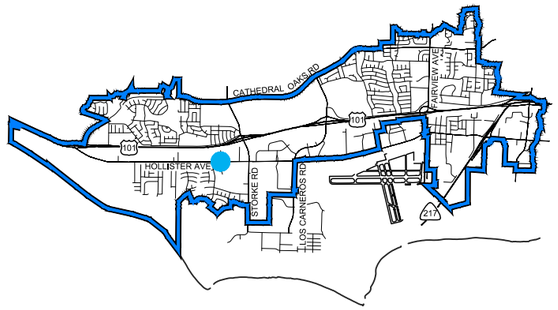
Permanent Pavement Delineation

Cost	$40,000	**RESULT NO. 2**	$40,000

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-12-31: Hollister Avenue and Santa Felicia Drive





Notes

1. Median modifications: right-in / right-out only for Santa Felicia Drive. Left-turns from Hollister Avenue are allowed.
2. Lengthen Hollister eastbound left-turn pocket at Village Way.

50' 0' 50' 100'
1 inch = 100 ft.

C:\Box\Projects\GTGOL Goleta\GTGOL_240089 GTIP-DIF 202515 Engl_CAD_Exhibits\Project I-12-31.dwg
Mon 23.Mar.26 08:23:27 AM

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-32 New Intersection Control - Storke Avenue / Santa Felicia Drive

Description: Intersection and median island modifications.

Scope: Intersection and median island modifications.

Limits: Intersection of Storke Avenue and Santa Felicia Drive

Estimate Type: Planning (City) Estimate Date: 16-Jan-26

Working Days: 60

		Current Year Costs		Section	
Earthwork	$	36,500	+	1	
Pavement Structural Section	$	36,300	+	2	
Drainage	$	-	+	3	
Specialty Items	$	-	+	4	
Environmental	$	-	+	5	
Traffic Items	$	30,000	+	6	
Minor Items	$	20,600	+	7	
Roadway Mobilization	$	12,400	+	8	
Roadway Contingency	$	27,200	+	9	
TOTAL ROADWAY COST	$	163,000	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**163,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	16,300	+	10%	of Construction Costs
PA&ED Support	$	16,300	+	10%	
PS&E Support	$	24,500	+	15%	
Right of Way Support	$	3,300	+	2%	
Construction Support	$	26,100	+	16%	
Support Contingency	$	17,300	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**104,000**	=		

Total Estimated Project Costs: $ 270,000 ✗ **Check Status**

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-32 New Intersection Control - Storke Avenue / Santa Felicia Drive

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	111	x	328.52	= $	36,466	2
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY		x		= $	-	
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS		x		= $	-	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**36,500**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN		x		= $	-	
Class 2 Aggregate Base	CY		x		= $	-	
Slurry Seal	TN		x		= $	-	
Minor Concrete (Miscellaneous Construction)	CY	14	x	2,591.04	= $	36,275	3
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**36,300**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-32 New Intersection Control - Storke Avenue / Santa Felicia Drive

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS		x		= $	-	
Irrigation System	LS		x		= $	-	
Plant Establishment Work	LS		x		= $	-	
Implement Erosion Control	LS		x		= $	-	
Prepare and Implement SWPPP / WPCP	LS		x		= $	-	
				TOTAL ENVIRONMENTAL		**$**	**-**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	30,000	= $	30,000	1
				TOTAL TRAFFIC ITEMS		**$**	**30,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	5,140	
Stage Construction and Traffic Handling				5.0%	$	5,140	
ADA Items				5.0%	$	5,140	
Other Minor Items				5.0%	$	5,140	
Total of Section 1-6	$	102,800	x	20.0%	= $	20,560	
				TOTAL MINOR ITEMS		**$**	**20,600**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	123,400	x	10%	= $	12,340	
				TOTAL MOBILIZATION		**$**	**12,400**

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	135,800	x	20%	= $	27,160	
				TOTAL CONTINGENCY		**$**	**27,200**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-32 New Intersection Control - Storke Avenue / Santa Felicia Drive

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**-**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-32 New Intersection Control - Storke Avenue / Santa Felicia Drive

NOTES AND CALCULATIONS

NOTE NO. 1

Pavement delineation

Cost $30,000

RESULT NO. 1 **$30,000**

NOTE NO. 2

Roadway excavation

Area

3000 SF

Depth

2.25 FT

Volume

3000 CF

111 CY

RESULT NO. 2 **111**

NOTE NO. 3

A1-6 Curb

Length

400 LF

Vol per foot

0.02585 CY/LF

Volume

10 CY/LF

Island paving

Area

300 SF

Depth

4 IN

Volume

100 CF

4 CY

TOTAL 14 CY

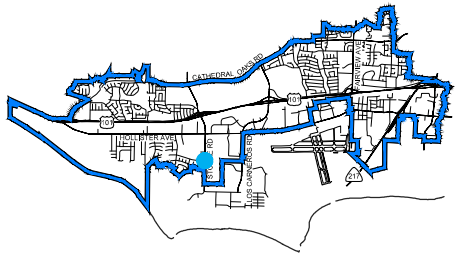
RESULT NO. 3 **14**



50' 0' 50' 100'
1 inch = 100 ft.

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-12-32: Storke Road and Santa Felicia Drive Roundabout



Notes

1. Re-stripe Santa Felicia Drive for separate right-turn and left-turn lanes.
2. Construct landscaped median island with a receiving pocket for northbound Storke Road.

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-12-32.dwg
Thu 05-Feb-26 03:00:01 PM

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-33 New Intersection Control - Hollister Avenue / Cathedral Oaks Avenue

Description: New simple single-lane roundabout.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection of Hollister Avenue and Catheral Oaks Avenue

Estimate Type: Planning (City) Estimate Date: 16-Apr-26

Working Days: 200

		Current Year Costs		Section		
Earthwork	$	758,900	+	1		
Pavement Structural Section	$	1,244,400	+	2		
Drainage	$	362,100	+	3		
Specialty Items	$	-	+	4		
Environmental	$	185,000	+	5		
Traffic Items	$	330,000	+	6		
Minor Items	$	547,300	+	7		
Roadway Mobilization	$	342,800	+	8		
Roadway Contingency	$	1,131,200	+	9		
TOTAL ROADWAY COST	$	4,901,700	=			
TOTAL STRUCTURES COST	$	-	+	10		
TOTAL CONSTRUCTION COST	**$**	**4,902,000**	=			
TOTAL RIGHT OF WAY COST	**$**	**1,230,000**	=	11		
Management Support	$	490,200	+	10%		
PA&ED Support	$	490,200	+	10%		
PS&E Support	$	735,300	+	15%		of Construction Costs
Right of Way Support	$	98,100	+	2%		
Construction Support	$	784,400	+	16%		
Support Contingency	$	519,700	+	20%		of Support Costs
TOTAL SUPPORT COST	**$**	**3,118,000**	=			

Total Estimated Project Costs: $ 9,250,000 **Check Status**

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-33 New Intersection Control - Hollister Avenue / Cathedral Oaks Avenue

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	3,565	x	110.00	= $	392,150	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	741	x	90.00	= $	66,690	2
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 758,900**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,640	x	237.97	= $	390,271	3
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	4
Slurry Seal	TN	5	x	3,507.95	= $	17,540	6
Minor Concrete (Miscellaneous Construction)	CY	547	x	1,424.58	= $	779,245	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,244,400**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 362,100**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-33 New Intersection Control - Hollister Avenue / Cathedral Oaks Avenue

SECTION 5: ENVIRONMENTAL	Unit	Quantity	Unit Price ($)	Cost	Notes
Biological Mitigation	LS	1	x = $	-	
Highway Planting	LS	1	x 100,000 = $	100,000	
Irrigation System	LS	1	x 25,000 = $	25,000	
Plant Establishment Work	LS	1	x 20,000 = $	20,000	
Implement Erosion Control	LS	1	x 20,000 = $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x 20,000 = $	20,000	
			TOTAL ENVIRONMENTAL	**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity	Unit Price ($)	Cost	Notes
Lighting and Sign Illumination	LS	1	x 250,000 = $	250,000	12
Signal and Lighting	LS		x = $	-	
Ramp Metering System	LS		x = $	-	
Interconnection Conduit and Cable	LS		x = $	-	
Furnish and Install Sign Structure	LS		x = $	-	
CIDH Pile (Sign Foundation)	LS		x = $	-	
Remove Sign Structure	LS		x = $	-	
Permanent Pavement Delineation	LS	1	x 80,000 = $	80,000	13
			TOTAL TRAFFIC ITEMS	**$ 330,000**	

SECTION 7: MINOR ITEMS					Notes
Traffic Management Plan and Detours			5.0%	$ 144,020	
Stage Construction and Traffic Handling			6.0%	$ 172,824	
ADA Items			2.0%	$ 57,608	
Other Minor Items			6.0%	$ 172,824	
Total of Section 1-6	$	2,880,400	x 19.0% =	$ 547,276	
			TOTAL MINOR ITEMS	**$ 547,300**	

SECTIONS 8: MOBILIZATION					
Total Section 1-7	$	3,427,700	x 10% =	$ 342,770	
			TOTAL MOBILIZATION	**$ 342,800**	

SECTION 9: ROADWAY CONTINGENCY					
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)					
Total Section 1-8	$	3,770,500	x 30% =	$ 1,131,150	
			TOTAL CONTINGENCY	**$ 1,131,200**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-33 New Intersection Control - Hollister Avenue / Cathedral Oaks Avenue

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	2,500	x	250.00	=	$	625,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS	1	x	400,000	=	$	400,000	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	1,025,000	=	$	205,000	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**1,230,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-33 New Intersection Control - Hollister Avenue / Cathedral Oaks Avenue

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs
4 legs
250 feet average approach length
200 feet average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)
35,000
Depth of AC
0.75
Depth of base
2.00
Roadway excavation = width * length * depth
96,250
3,565 **RESULT NO. 2** **3,565**

NOTE NO. 3

Import for landscape areas
10,000 SF
Depth
2.00 feet
Volume = width * length * depth
20,000 CF
741 CY **RESULT NO. 3** **741**

NOTE NO. 4

AC pavement area
3,500 SF
Depth of AC
0.75 feet
Volume = width * length * depth
2,625 CF

AC pavement area (approaches)
40,000
Depth of AC
0.50
Volume = width * length * depth
20,000 CF

Total
22,625 CF * 145 pounds/CF / 2,000 pounds/ton
1,640 TN **RESULT NO. 4** **1,640**

I-12-33 New Intersection Control - Hollister Avenue / Cathedral Oaks Avenue

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
40,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
40,000 CF

45,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 6** **5**

NOTE NO. 7

New sidewalk length
200 feet At roundabout
2000 feet Approaches
2200 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
7333 CF
272 CY **RESULT NO. 7** **272**

I-12-33 New Intersection Control - Hollister Avenue / Cathedral Oaks Avenue

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands

1600	feet	Approaches
1600	feet	TOTAL

Volume / foot

0.03 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

41 CY

New Caltrans A2-6 curb and gutter length

200	feet	At roundabout
2000	feet	Approaches
2200	feet	TOTAL

Volume / foot

0.06 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

130 CY **RESULT NO. 8** **171**

NOTE NO. 9

Truck apron and misc

Truck apron (CAD)

2500 SF

Concrete thickness

9 inches

Volume = Minor Concrete (Miscellaneous Construction)

1875 CF

50% Additional for misc

2813 CF

104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg

8 each

Depth of drop inlets

5 feet

Drop inlet volume - Caltrans OL-10

Volume / foot

2.39 CY (3 feet deep)

0.28 CY/each additional foot of depth up to 8 feet

Volume = Minor Concrete (Minor Structure)

24 CY **RESULT NO. 10** **24**

NOTE NO. 11

Estimated length of RCP

1,500 feet **RESULT NO. 11** **1,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-33 New Intersection Control - Hollister Avenue / Cathedral Oaks Avenue

NOTES AND CALCULATIONS

NOTE NO. 12

New street lights
12 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 480,000
Connection
$ 25,000

RESULT NO. 12 **$ 505,000**

NOTE NO. 13

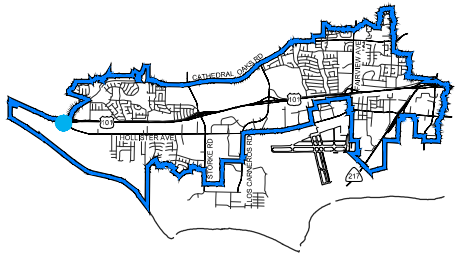
Pavement delineation and marking
$ 80,000

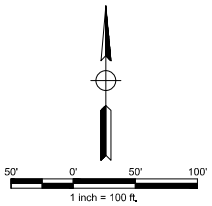
RESULT NO. 13 **80,000**

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-12-33: Hollister Avenue and Cathedral Oaks Road Roundabout







MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

Thu 05-Feb-26 11:22:57 AM C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-12-33.dwg

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-34 New Intersection Control - Hollister Avenue / Cortona Drive

Description: New traffic signal.

Scope: New traffic signal improvements.

Limits: Intersection of Hollister Avenue and Cortona Drive

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 90

		Current Year Costs		Section	
Earthwork	$	-	+	1	
Pavement Structural Section	$	-	+	2	
Drainage	$	-	+	3	
Specialty Items	$	-	+	4	
Environmental	$	-	+	5	
Traffic Items	$	655,000	+	6	
Minor Items	$	131,000	+	7	
Roadway Mobilization	$	78,600	+	8	
Roadway Contingency	$	173,000	+	9	
TOTAL ROADWAY COST	$	1,037,600	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**1,038,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	103,800	+	10%	of Construction Costs
PA&ED Support	$	103,800	+	10%	
PS&E Support	$	155,700	+	15%	
Right of Way Support	$	20,800	+	2%	
Construction Support	$	166,100	+	16%	
Support Contingency	$	110,100	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**661,000**	=		

Total Estimated Project Costs: $ 1,700,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-34 New Intersection Control - Hollister Avenue / Cortona Drive

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY		x	=	$	-	
Roadway Excavation (ADL)	CY		x	=	$	-	
Imported Borrow	CY		x	=	$	-	
Structure Excavation (Retaining Wall)	CY		x	=	$	-	
Structure Backfill (Retaining Wall)	CY		x	=	$	-	
Clearing & Grubbing	LS		x	=	$	-	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**-**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x	=	$	-	
Hot Mix Asphalt (Type A)	TN		x	=	$	-	
Class 2 Aggregate Base	CY		x	=	$	-	
Slurry Seal	TN		x	=	$	-	
Minor Concrete (Miscellaneous Construction)	CY		x	=	$	-	
Place Hot Mix Asphalt Dike	LF		x	=	$	-	
Cold Plane Asphalt Concrete Pavement	SY		x	=	$	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**-**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x	=	$	-	
Minor Concrete (Minor Structure)	CY		x	=	$	-	
Reinforced Concrete Pipe	LF		x	=	$	-	
Rock Slope Protection	CY		x	=	$	-	
Concrete (Ditch/Channel Lining)	CY		x	=	$	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x	=	$	-	
Remove Concrete Barrier	LF		x	=	$	-	
Remove Metal Beam Guard Railing	LF		x	=	$	-	
Chain Link Fence	LF		x	=	$	-	
Midwest Guardrail System (Wood Post)	LF		x	=	$	-	
Thrie Beam Barrier	LF		x	=	$	-	
Terminal System or Crash Cushion	EA		x	=	$	-	
Concrete Barrier (TYPE 60M)	LF		x	=	$	-	
Structural Concrete, Retaining Wall	CY		x	=	$	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-34 New Intersection Control - Hollister Avenue / Cortona Drive

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS		x		= $	-	
Irrigation System	LS		x		= $	-	
Plant Establishment Work	LS		x		= $	-	
Implement Erosion Control	LS		x		= $	-	
Prepare and Implement SWPPP / WPCP	LS		x		= $	-	
				TOTAL ENVIRONMENTAL			**$ -**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	525,000	= $	525,000	1
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	30,000	= $	30,000	2
				TOTAL TRAFFIC ITEMS			**$ 655,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	32,750	
Stage Construction and Traffic Handling				5.0%	$	32,750	
ADA Items				5.0%	$	32,750	
Other Minor Items				5.0%	$	32,750	
Total of Section 1-6	$	655,000	x	20.0%	= $	131,000	
				TOTAL MINOR ITEMS			**$ 131,000**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	786,000	x	10%	= $	78,600	
				TOTAL MOBILIZATION			**$ 78,600**

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	864,600	x	20%	= $	172,920	
				TOTAL CONTINGENCY			**$ 173,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-34 New Intersection Control - Hollister Avenue / Cortona Drive

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-34 New Intersection Control - Hollister Avenue / Cortona Drive

NOTES AND CALCULATIONS

NOTE NO. 1

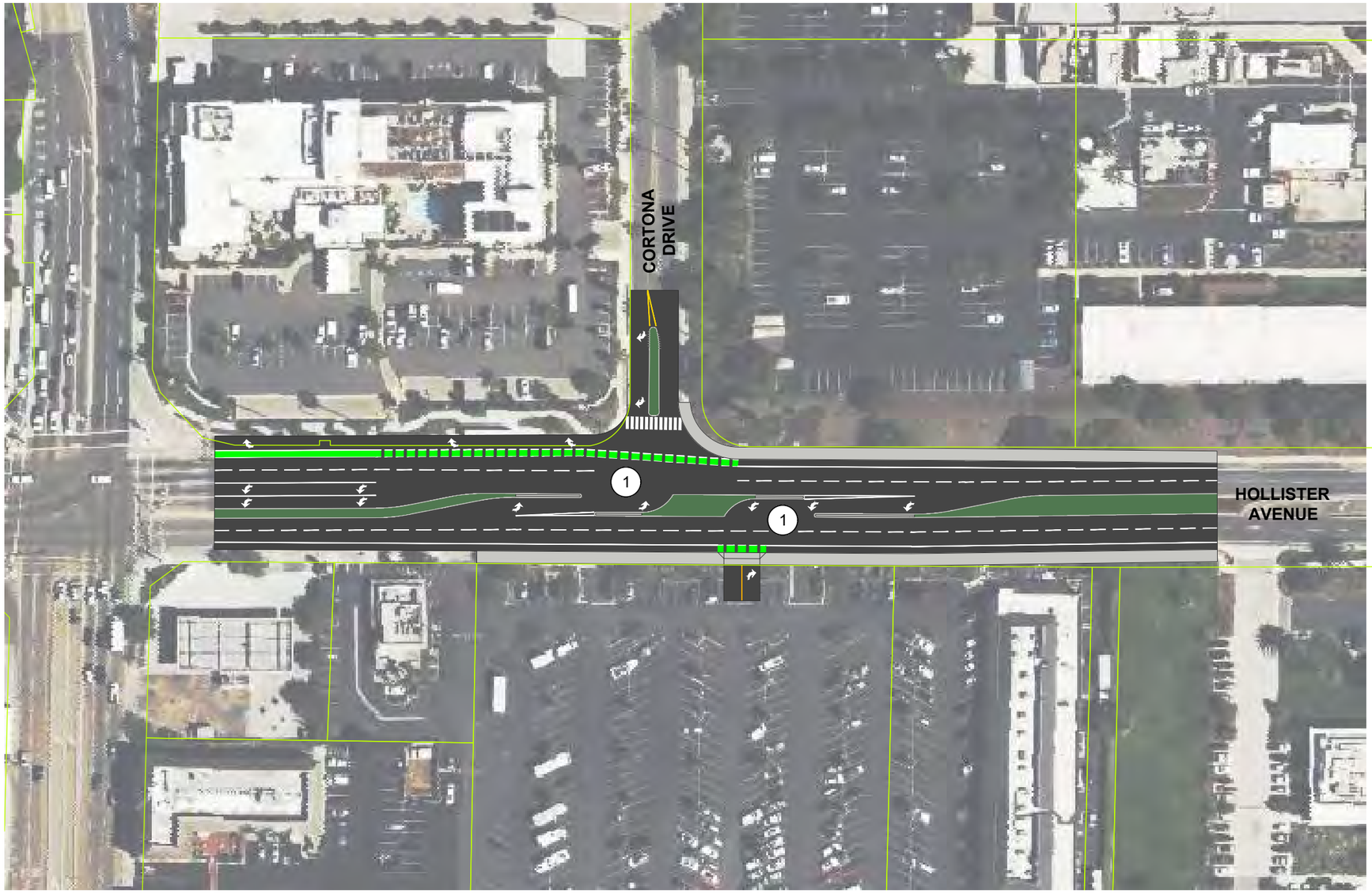
Signal and Lighting

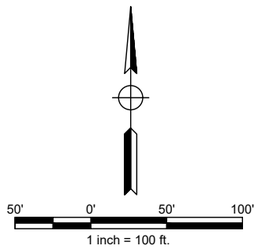
Scale:	Major		
Legs:	3		
Cost:	$525,000	**RESULT NO. 1**	$525,000

NOTE NO. 2

Permanent Pavement Delineation

Cost	$30,000	**RESULT NO. 2**	$30,000

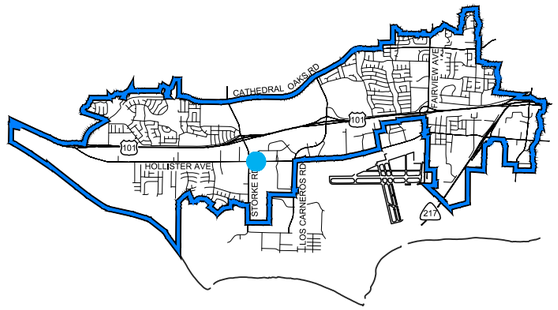




C:\Box\Projects\CIGOL Goleta\CIGOL.240089 GTIP-DIF 2025\5 Engl_CAD_Exhibits\Project I-12-34.dwg
Mon 23.Mar.26 08:15:40 AM

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-12-34: Hollister Avenue and Cortona Drive



Notes

(1) Construct landscape median islands to prohibit left-turn movements on to Hollister Avenue from Cortona Drive and the shopping area parking lot while allowing left-turn movements from Hollister to these areas.

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

Description: Modify traffic signal.
- New 200' long eastbound right-turn lane
- Extend northbound left -turn lane to 250' long.

Scope: New traffic signal improvements.

Limits: Intersection of Catheral Oaks Avenue and Glen Annie Road

Estimate Type: Planning (City) Estimate Date: 3-Apr-26

Working Days: 90

		Current Year Costs		Section	
Earthwork	$	91,200	+	1	
Pavement Structural Section	$	205,500	+	2	
Drainage	$	-	+	3	
Specialty Items	$	-	+	4	
Environmental	$	20,000	+	5	
Traffic Items	$	840,000	+	6	
Minor Items	$	231,400	+	7	
Roadway Mobilization	$	138,900	+	8	
Roadway Contingency	$	305,400	+	9	
TOTAL ROADWAY COST	$	1,832,400	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**1,832,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	183,200	+	10%	of Construction Costs
PA&ED Support	$	183,200	+	10%	
PS&E Support	$	274,800	+	15%	
Right of Way Support	$	36,700	+	2%	
Construction Support	$	293,200	+	16%	
Support Contingency	$	194,300	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**1,166,000**	=		

Total Estimated Project Costs: $ 3,000,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	311	x	228.81	= $	71,160	3
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY		x		= $	-	
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	20,000	= $	20,000	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**91,200**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	261	x	418.28	= $	109,171	4
Class 2 Aggregate Base	CY	178	x	295.45	= $	52,590	5
Slurry Seal	TN		x		= $	-	
Minor Concrete (Miscellaneous Construction)	CY	36	x	1,212.77	= $	43,660	6
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**205,500**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS		x		= $	-	
Irrigation System	LS		x		= $	-	
Plant Establishment Work	LS		x		= $	-	
Implement Erosion Control	LS	1	x	10,000	= $	10,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	10,000	= $	10,000	
				TOTAL ENVIRONMENTAL		**$**	**20,000**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	700,000	= $	700,000	1
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	40,000	= $	40,000	2
				TOTAL TRAFFIC ITEMS		**$**	**840,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	57,835	
Stage Construction and Traffic Handling				5.0%	$	57,835	
ADA Items				5.0%	$	57,835	
Other Minor Items				5.0%	$	57,835	
Total of Section 1-6	$	1,156,700	x	20.0%	= $	231,340	
				TOTAL MINOR ITEMS		**$**	**231,400**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	1,388,100	x	10%	= $	138,810	
				TOTAL MOBILIZATION		**$**	**138,900**

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	1,527,000	x	20%	= $	305,400	
				TOTAL CONTINGENCY		**$**	**305,400**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

NOTES AND CALCULATIONS

NOTE NO. 1

Signal and Lighting
Scale: Major
Legs: 4
Cost: $700,000

RESULT NO. 1 $700,000

NOTE NO. 2

Permanent Pavement Delineation
Cost $40,000

RESULT NO. 2 $40,000

NOTE NO. 3

Roadway excavation area (to add turning lanes)
12 LF Width (both legs)
200 LF Length Cathedral Oaks
200 LF Length Glen Annie
4,800 SF
Depth of AC
0.75
Depth of base
1.00
Roadway excavation = width * length * depth
8,400
311

RESULT NO. 3 **311**

NOTE NO. 4

AC pavement area
12 LF Width
200 LF Length Cathedral Oaks
200 LF Length Glen Annie
4,800 SF
Depth of AC
0.75 feet
Volume = width * length * depth
3,600 CF * 145 pounds/CF / 2,000 pounds/ton
261 TN

RESULT NO. 4 **261**

NOTE NO. 5

Aggregate base area
12 LF Width
200 LF Length Cathedral Oaks
200 LF Length Glen Annie
4,800 SF
Depth of AB
1.00 feet
Volume = width * length * depth
4,800 CF
178 CY

RESULT NO. 5 **178**

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

NOTES AND CALCULATIONS

NOTE NO. 6

New Caltrans A2-6 curb

200	LF	Length Cathedral Oaks
200	LF	Length Glen Annie
400	LF	TOTAL

Volume / foot

0.06	CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

24	CY

New sidewalk

200	LF	Length Cathedral Oaks
5	LF	Width
1000	SF	TOTAL

Volume / foot

0.01	CY/SF

TOTAL Volume = Minor Concrete (Miscellaneous Construction)

12	CY	**RESULT NO. 6**	**36**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

Description: New simple single-lane roundabout.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection of Catheral Oaks Avenue and Glen Annie Road

Estimate Type: Planning (City) Estimate Date: 20-Jan-26

Working Days: 200

		Current Year Costs		Section	
Earthwork	$	758,900	+	1	
Pavement Structural Section	$	1,244,400	+	2	
Drainage	$	362,100	+	3	
Specialty Items	$	-	+	4	
Environmental	$	185,000	+	5	
Traffic Items	$	330,000	+	6	
Minor Items	$	547,300	+	7	
Roadway Mobilization	$	342,800	+	8	
Roadway Contingency	$	1,131,200	+	9	
TOTAL ROADWAY COST	$	4,901,700	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**4,902,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**750,000**	=	11	
Management Support	$	490,200	+	10%	of Construction Costs
PA&ED Support	$	490,200	+	10%	
PS&E Support	$	735,300	+	15%	
Right of Way Support	$	98,100	+	2%	
Construction Support	$	784,400	+	16%	
Support Contingency	$	519,700	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**3,118,000**	=		

Total Estimated Project Costs: $ 8,800,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	3,565	x	110.00	= $	392,150	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	741	x	90.00	= $	66,690	2
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 758,900**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,640	x	237.97	= $	390,271	3
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	4
Slurry Seal	TN	5	x	3,507.95	= $	17,540	6
Minor Concrete (Miscellaneous Construction)	CY	547	x	1,424.58	= $	779,245	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,244,400**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 362,100**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS	1	x		= $	-	
Highway Planting	LS	1	x	100,000	= $	100,000	
Irrigation System	LS	1	x	25,000	= $	25,000	
Plant Establishment Work	LS	1	x	20,000	= $	20,000	
Implement Erosion Control	LS	1	x	20,000	= $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	20,000	= $	20,000	
				TOTAL ENVIRONMENTAL		**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS	1	x	250,000	= $	250,000	12
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	80,000	= $	80,000	13
				TOTAL TRAFFIC ITEMS		**$ 330,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	144,020	
Stage Construction and Traffic Handling				6.0%	$	172,824	
ADA Items				2.0%	$	57,608	
Other Minor Items				6.0%	$	172,824	
Total of Section 1-6	$	2,880,400	x	19.0%	= $	547,276	
				TOTAL MINOR ITEMS		**$ 547,300**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	3,427,700	x	10%	= $	342,770	
				TOTAL MOBILIZATION		**$ 342,800**	

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	3,770,500	x	30%	= $	1,131,150	
				TOTAL CONTINGENCY		**$ 1,131,200**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	2,000	x	250.00	=	$	500,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	50%	x	500,000	=	$	250,000	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**750,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs
4 legs
250 feet average approach length
200 feet average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)
35,000
Depth of AC
0.75
Depth of base
2.00
Roadway excavation = width * length * depth
96,250
3,565 **RESULT NO. 2** **3,565**

NOTE NO. 3

Import for landscape areas
10,000 SF
Depth
2.00 feet
Volume = width * length * depth
20,000 CF
741 CY **RESULT NO. 3** **741**

NOTE NO. 4

AC pavement area
3,500 SF
Depth of AC
0.75 feet
Volume = width * length * depth
2,625 CF

AC pavement area (approaches)
40,000
Depth of AC
0.50
Volume = width * length * depth
20,000 CF

Total
22,625 CF * 145 pounds/CF / 2,000 pounds/ton
1,640 TN **RESULT NO. 4** **1,640**

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
40,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
40,000 CF

45,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 6** **5**

NOTE NO. 7

New sidewalk length
200 feet At roundabout
2000 feet Approaches
2200 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
7333 CF
272 CY **RESULT NO. 7** **272**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands
1600 feet Approaches
1600 feet TOTAL
Volume / foot
0.03 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
41 CY
New Caltrans A2-6 curb and gutter length
200 feet At roundabout
2000 feet Approaches
2200 feet TOTAL
Volume / foot
0.06 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
130 CY **RESULT NO. 8** **171**

NOTE NO. 9

Truck apron and misc
Truck apron (CAD)
2500 SF
Concrete thickness
9 inches
Volume = Minor Concrete (Miscellaneous Construction)
1875 CF
50% Additional for misc
2813 CF
104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg
8 each
Depth of drop inlets
5 feet
Drop inlet volume - Caltrans OL-10
Volume / foot
2.39 CY (3 feet deep)
0.28 CY/each additional foot of depth up to 8 feet
Volume = Minor Concrete (Minor Structure)
24 CY **RESULT NO. 10** **24**

NOTE NO. 11

Estimated length of RCP
1,500 feet **RESULT NO. 11** **1,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-35 New Intersection Control - Cathedral Oaks Avenue / Glen Annie Road

NOTES AND CALCULATIONS

NOTE NO. 12

New street lights
12 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 480,000
Connection
$ 25,000

RESULT NO. 12 **$ 505,000**

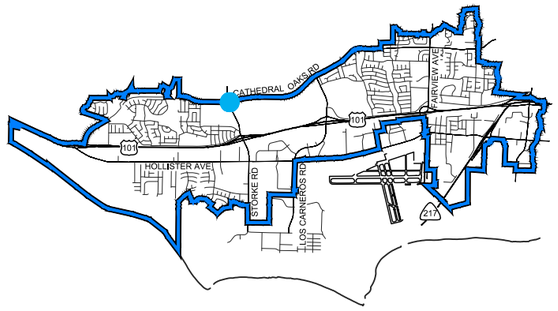
NOTE NO. 13

Pavement delineation and marking
$ 80,000

RESULT NO. 13 **80,000**

GOLETA TRANSPORTATION
IMPROVEMENTS PROGRAM

Project I-12-35: Glen Annie Road at Cathedral Oaks Road Improvements





50' 0' 50' 100'
1 inch = 100 ft.

Notes

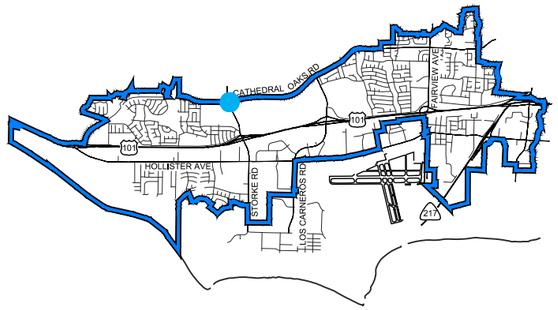
1. New 200' long eastbound right-turn lane.
2. Extend northbound left-turn lane to 250' long

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\CIGOL Goleta\CIGOL_240089 GTIP-DIF 2025\5 Engl_CAD_Exhibits\Project I-12-35_SIG.dwg
Thu 09,Apr,26 02:01:01 PM

GOLETA TRANSPORTATION
IMPROVEMENTS PROGRAM

Project I-12-35: Glen Annie Road at Cathedral Oaks Road Roundabout





50' 0' 50' 100'
1 inch = 100 ft.

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\CIGOL Goleta\CIGOL_240089 GTIP-DIF 2025\5 Engl_CAD_Exhibits\Project I-12-35.dwg
Fri,20,Mar,26 04:19:05 PM

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

Description: Modify traffic signal. Add fourth leg.

Scope: New traffic signal improvements.

Limits: Intersection of Catheral Oaks Avenue and Alameda Avenue

Estimate Type: Planning (City) Estimate Date: 3-Apr-26

Working Days: 90

		Current Year Costs		Section	
Earthwork	$	55,700	+	1	
Pavement Structural Section	$	130,200	+	2	
Drainage	$	-	+	3	
Specialty Items	$	-	+	4	
Environmental	$	20,000	+	5	
Traffic Items	$	840,000	+	6	
Minor Items	$	209,200	+	7	
Roadway Mobilization	$	125,600	+	8	
Roadway Contingency	$	276,200	+	9	
TOTAL ROADWAY COST	$	1,656,900	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**1,657,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	165,700	+	10%	of Construction Costs
PA&ED Support	$	165,700	+	10%	
PS&E Support	$	248,600	+	15%	
Right of Way Support	$	33,200	+	2%	
Construction Support	$	265,200	+	16%	
Support Contingency	$	175,700	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**1,055,000**	=		

Total Estimated Project Costs: $ 2,720,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	156	x	228.81	= $	35,694	3
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY		x		= $	-	
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	20,000	= $	20,000	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**55,700**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	87	x	733.24	= $	63,792	4
Class 2 Aggregate Base	CY	59	x	334.98	= $	19,764	5
Slurry Seal	TN		x		= $	-	
Minor Concrete (Miscellaneous Construction)	CY	18	x	2,591.04	= $	46,639	6
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**130,200**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS		x		= $	-	
Irrigation System	LS		x		= $	-	
Plant Establishment Work	LS		x		= $	-	
Implement Erosion Control	LS	1	x	10,000	= $	10,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	10,000	= $	10,000	
				TOTAL ENVIRONMENTAL		**$**	**20,000**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	700,000	= $	700,000	1
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	40,000	= $	40,000	2
				TOTAL TRAFFIC ITEMS		**$**	**840,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	52,295	
Stage Construction and Traffic Handling				5.0%	$	52,295	
ADA Items				5.0%	$	52,295	
Other Minor Items				5.0%	$	52,295	
Total of Section 1-6	$	1,045,900	x	20.0%	= $	209,180	
				TOTAL MINOR ITEMS		**$**	**209,200**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	1,255,100	x	10%	= $	125,510	
				TOTAL MOBILIZATION		**$**	**125,600**

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	1,380,700	x	20%	= $	276,140	
				TOTAL CONTINGENCY		**$**	**276,200**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

NOTES AND CALCULATIONS

NOTE NO. 1

Signal and Lighting
Scale: Major
Legs: 4
Cost: $700,000

RESULT NO. 1 $700,000

NOTE NO. 2

Permanent Pavement Delineation
Cost $40,000

RESULT NO. 2 $40,000

NOTE NO. 3

Roadway excavation area (to add turning lanes)
60 LF Width
40 LF Length
2,400 SF
Depth of AC
0.75
Depth of base
1.00
Roadway excavation = width * length * depth
4,200
156

RESULT NO. 3 **156**

NOTE NO. 4

AC pavement area
40 LF Width
40 LF Length
1,600 SF
Depth of AC
0.75 feet
Volume = width * length * depth
1,200 CF * 145 pounds/CF / 2,000 pounds/ton
87 TN

RESULT NO. 4 **87**

NOTE NO. 5

Aggregate base area
40 LF Width
40 LF Length
1,600 SF
Depth of AB
1.00 feet
Volume = width * length * depth
1,600 CF
59 CY

RESULT NO. 5 **59**

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

NOTES AND CALCULATIONS

NOTE NO. 6

New Caltrans A2-6 curb
100 LF Lengt TOTAL
Volume / foot
0.06 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
6 CY
New sidewalk
100 LF Length Cathedral Oaks
10 LF Width
1000 SF TOTAL
Volume / foot
0.01 CY/SF
TOTAL Volume = Minor Concrete (Miscellaneous Construction)
12 CY **RESULT NO. 6** **18**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

Description: New simple single-lane roundabout.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection of Catheral Oaks Avenue and Alameda Avenue

Estimate Type: Planning (City) Estimate Date: 20-Jan-26

Working Days: 200

		Current Year Costs		Section		
Earthwork	$	769,400	+	1		
Pavement Structural Section	$	1,038,600	+	2		
Drainage	$	344,700	+	3		
Specialty Items	$	-	+	4		
Environmental	$	185,000	+	5		
Traffic Items	$	310,000	+	6		
Minor Items	$	503,100	+	7		
Roadway Mobilization	$	315,100	+	8		
Roadway Contingency	$	1,039,800	+	9		
TOTAL ROADWAY COST	$	4,505,700	=			
TOTAL STRUCTURES COST	$	-	+	10		
TOTAL CONSTRUCTION COST	**$**	**4,506,000**	=			
TOTAL RIGHT OF WAY COST	**$**	**1,875,000**	=	11		
Management Support	$	450,600	+	10%		
PA&ED Support	$	450,600	+	10%		
PS&E Support	$	675,900	+	15%		of Construction Costs
Right of Way Support	$	90,200	+	2%		
Construction Support	$	721,000	+	16%		
Support Contingency	$	477,700	+	20%		of Support Costs
TOTAL SUPPORT COST	**$**	**2,866,000**	=			

Total Estimated Project Costs: $ 9,250,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	2,674	x	160.00	= $	427,840	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	1,037	x	40.00	= $	41,480	2
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	300,000	= $	300,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 769,400**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,278	x	237.97	= $	304,126	3
Class 2 Aggregate Base	CY	194	x	295.45	= $	57,317	4
Slurry Seal	TN	5	x	3,507.95	= $	17,540	6
Minor Concrete (Miscellaneous Construction)	CY	463	x	1,424.58	= $	659,581	7,8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,038,600**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	18	x	2,900.00	= $	52,200	10
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 344,700**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

SECTION 5: ENVIRONMENTAL	Unit	Quantity	Unit Price ($)	Cost	Notes
Biological Mitigation	LS	1	x = $	-	
Highway Planting	LS	1	x 100,000 = $	100,000	
Irrigation System	LS	1	x 25,000 = $	25,000	
Plant Establishment Work	LS	1	x 20,000 = $	20,000	
Implement Erosion Control	LS	1	x 20,000 = $	20,000	
Prepare and Implement SWPPP / WPCP	LS	1	x 20,000 = $	20,000	
			TOTAL ENVIRONMENTAL	**$ 185,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity	Unit Price ($)	Cost	Notes
Lighting and Sign Illumination	LS	1	x 250,000 = $	250,000	12
Signal and Lighting	LS		x = $	-	
Ramp Metering System	LS		x = $	-	
Interconnection Conduit and Cable	LS		x = $	-	
Furnish and Install Sign Structure	LS		x = $	-	
CIDH Pile (Sign Foundation)	LS		x = $	-	
Remove Sign Structure	LS		x = $	-	
Permanent Pavement Delineation	LS	1	x 60,000 = $	60,000	13
			TOTAL TRAFFIC ITEMS	**$ 310,000**	

SECTION 7: MINOR ITEMS				Notes
Traffic Management Plan and Detours	5.0%	$	132,385	
Stage Construction and Traffic Handling	6.0%	$	158,862	
ADA Items	2.0%	$	52,954	
Other Minor Items	6.0%	$	158,862	
Total of Section 1-6 $ 2,647,700 x	19.0%	= $	503,063	
	TOTAL MINOR ITEMS		**$ 503,100**	

SECTIONS 8: MOBILIZATION				
Total Section 1-7 $ 3,150,800 x	10%	= $	315,080	
	TOTAL MOBILIZATION		**$ 315,100**	

SECTION 9: ROADWAY CONTINGENCY				
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)				
Total Section 1-8 $ 3,465,900 x	30%	= $	1,039,770	
	TOTAL CONTINGENCY		**$ 1,039,800**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	5,000	x	250.00	=	$	1,250,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	50%	x	1,250,000	=	$	625,000	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**1,875,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

NOTES AND CALCULATIONS

NOTE NO. 1

Number of intersection legs
3 legs
250 feet average approach length
200 feet average splitter island length

NOTE NO. 2

Roadway excavation area (within splitter islands)
26,250
Depth of AC
0.75
Depth of base
2.00
Roadway excavation = width * length * depth
72,188
2,674 **RESULT NO. 2** **2,674**

NOTE NO. 3

Import for landscape areas
14,000 SF
Depth
2.00 feet
Volume = width * length * depth
28,000 CF
1,037 CY **RESULT NO. 3** **1,037**

NOTE NO. 4

AC pavement area
3,500 SF
Depth of AC
0.75 feet
Volume = width * length * depth
2,625 CF

AC pavement area (approaches)
30,000
Depth of AC
0.50
Volume = width * length * depth
15,000 CF

Total
17,625 CF * 145 pounds/CF / 2,000 pounds/ton
1,278 TN **RESULT NO. 4** **1,278**

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

NOTES AND CALCULATIONS

NOTE NO. 5

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
30,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
30,000 CF

35,250 CF
194 CY **RESULT NO. 5** **194**

NOTE NO. 6

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 6** **5**

NOTE NO. 7

New sidewalk length
250 feet At roundabout
1500 feet Approaches
1750 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
5833 CF
216 CY **RESULT NO. 7** **216**

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

NOTES AND CALCULATIONS

NOTE NO. 8

New Caltrans A1-6 curb at splitter islands
1200 feet Approaches
1200 feet TOTAL
Volume / foot
0.03 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
31 CY
New Caltrans A2-6 curb and gutter length
400 feet At roundabout
1500 feet Approaches
1900 feet TOTAL
Volume / foot
0.06 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
112 CY **RESULT NO. 8** **143**

NOTE NO. 9

Truck apron and misc
Truck apron (CAD)
2500 SF
Concrete thickness
9 inches
Volume = Minor Concrete (Miscellaneous Construction)
1875 CF
50% Additional for misc
2813 CF
104 CY **RESULT NO. 9** **104**

NOTE NO. 10

New drop inlets - assumed one each side of the road on each leg
6 each
Depth of drop inlets
5 feet
Drop inlet volume - Caltrans OL-10
Volume / foot
2.39 CY (3 feet deep)
0.28 CY/each additional foot of depth up to 8 feet
Volume = Minor Concrete (Minor Structure)
18 CY **RESULT NO. 10** **18**

NOTE NO. 11

Estimated length of RCP
1,500 feet **RESULT NO. 11** **1,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-12-36 New Intersection Control - Cathedral Oaks Avenue / Alameda Avenue

NOTES AND CALCULATIONS

NOTE NO. 12

New street lights
9 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 390,000
Connection
$ 25,000

RESULT NO. 12 **$ 415,000**

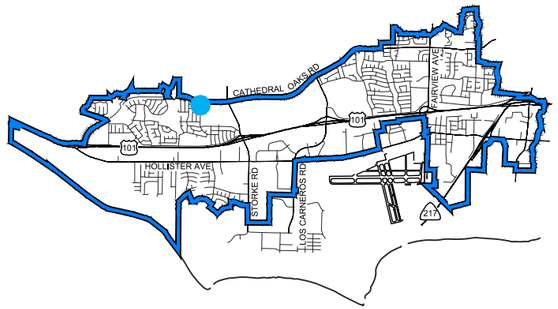
NOTE NO. 13

Pavement delineation and marking
$ 60,000

RESULT NO. 13 **60,000**

GOLETA TRANSPORTATION
IMPROVEMENTS PROGRAM

Project I-12-36: Alameda Avenue at Cathedral Oaks Road Improvements





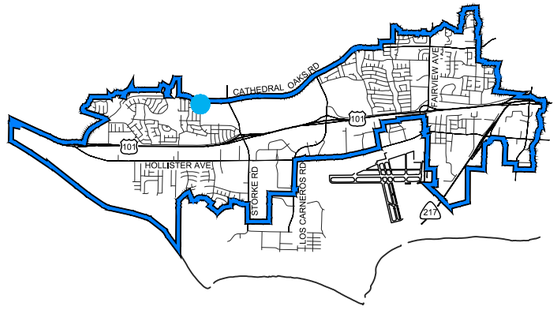
50' 0' 50' 100'
1 inch = 100 ft.

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\CIGOL Goleta\CIGOL_240089 GTIP-DIF 2025\5 Engl_CAD_Exhibits\Project I-12-36_SIG.dwg
Fri 10,Apr,26 11:58:01 AM

GOLETA TRANSPORTATION
IMPROVEMENTS PROGRAM

Project I-12-36: Alameda Avenue at Cathedral Oaks Road Roundabout





50' 0' 50' 100'
1 inch = 100 ft.

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\CTGOL Goleta\CTGOL_240089 GTIP-DIF 2025\5 Engl_CAD_Exhibits\Project I-12-36.dwg
Fri 20,Mar,26 04:19:55 PM

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-18 Stork Road at US 101 Southbound Ramps

Description: Additional second dedicated right turn lane on Storke Road Right US 101 southbound on-ramp. Currently 1 through lane; 1 through and right turn lane; 1 right turn lane.
• Additional Storke Road NB right turn lane onto US 101 SB on-ramp.
• Widen OH structure to accomodate Class I facilties on each side and provide Class I bike path from Hollister Avenue to SB ramps.

Scope: Demolition; pavement widening; overhead bridge widening; traffic signal; pavement delineation and slurry seal; railroad coordination.

Limits: Intersection.

Estimate Type: Planning (Caltrans) Estimate Date: 20-Jan-26

Working Days: 240

		Current Year Costs		Section	
Earthwork	$	860,300	+	1	
Pavement Structural Section	$	805,800	+	2	
Drainage	$	-	+	3	
Specialty Items	$	1,576,500	+	4	
Environmental	$	95,000	+	5	
Traffic Items	$	860,000	+	6	
Minor Items	$	545,700	+	7	
Roadway Mobilization	$	474,400	+	8	
Roadway Contingency	$	1,565,400	+	9	
TOTAL ROADWAY COST	$	6,783,100	=		
TOTAL STRUCTURES COST	$	4,684,700	+	10	
TOTAL CONSTRUCTION COST	**$**	**11,468,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**3,000,000**	=	11	
Management Support	$	1,146,800	+	10%	of Construction Costs
PA&ED Support	$	1,146,800	+	10%	
PS&E Support	$	1,720,200	+	15%	
Right of Way Support	$	229,400	+	2%	
Construction Support	$	1,834,900	+	16%	
Support Contingency	$	1,823,500	+	30%	of Support Costs
TOTAL SUPPORT COST	**$**	**7,902,000**	=		

Total Estimated Project Costs: $ 22,400,000 ✗ **Check Status**

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-18 Stork Road at US 101 Southbound Ramps

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	444	x	228.81	= $	101,592	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	759	x	40.00	= $	30,360	3
Structure Excavation (Retaining Wall)	CY	850	x	300.00	= $	255,000	4
Structure Backfill (Retaining Wall)	CY	622	x	560.00	= $	348,320	5
Clearing & Grubbing	LS	1	x	125,000	= $	125,000	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**860,300**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	326	x	418.28	= $	136,359	6
Class 2 Aggregate Base	CY	278	x	295.45	= $	82,135	7
Slurry Seal	TN	20	x	3,507.95	= $	70,159	8
Minor Concrete (Miscellaneous Construction)	CY	363	x	1,424.58	= $	517,123	15
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**805,800**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF	600	x	22.04	= $	13,224	9
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF	100	x	61.81	= $	6,181	10
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF	600	x	325.82	= $	195,492	11
Structural Concrete, Retaining Wall	CY	1,214	x	1,121.58	= $	1,361,598	12
				TOTAL SPECIALTY ITEMS		**$**	**1,576,500**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-18 Stork Road at US 101 Southbound Ramps

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	40,000	= $	40,000	
Irrigation System	LS	1	x	15,000	= $	15,000	
Plant Establishment Work	LS		x	10,000	= $	-	
Implement Erosion Control	LS	1	x	10,000	= $	10,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	30,000	= $	30,000	
				TOTAL ENVIRONMENTAL		**$**	**95,000**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	700,000	= $	700,000	13
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	60,000	= $	60,000	14
				TOTAL TRAFFIC ITEMS		**$**	**860,000**

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				3.5%	$	146,916	
Stage Construction and Traffic Handling				4.0%	$	167,904	
ADA Items				0.5%	$	20,988	
Other Minor Items				5.0%	$	209,880	
Total of Section 1-6	$	4,197,600	x	13.0%	= $	545,688	
				TOTAL MINOR ITEMS		**$**	**545,700**

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	4,743,300	x	10%	= $	474,330	
				TOTAL MOBILIZATION		**$**	**474,400**

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	5,217,700	x	30%	= $	1,565,310	
				TOTAL CONTINGENCY		**$**	**1,565,400**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-18 Stork Road at US 101 Southbound Ramps

SECTION 10: STRUCTURES ITEMS

Name / ID	UPRR Overhead	xxxxxxxxx	xxxxxxxxx
Structure Type	PC/PS I	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	26 LF	0 LF	0 LF
Total Bridge Length	105 LF	0 LF	0 LF
Total Area (Square Feet)	2730 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	4	0	0
Cost Per Square Foot	$1,200	$0	$0
COST OF EACH BRIDGE	$ 3,276,000	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	3,276,000
Structures Mobilization Percentage	10%	$	327,600
Structures Contingency Percentage	30%	$	1,081,080
TOTAL COST OF STRUCTURES		**$**	**4,684,700**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS	1	x	1,000,000	=	$	1,000,000	
Railroad - Flaggers	LS	1	x	500,000	=	$	500,000	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	100%	x	1,500,000	=	$	1,500,000	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**3,000,000**	

I-18 Stork Road at US 101 Southbound Ramps

NOTES AND CALCULATIONS

NOTE NO. 1

Roadway excavation area
6000 SF Widenings
Depth
2.00 feet
Volume = (Sum of Areas) * Depth
12000 CF
444 CY **RESULT NO. 1** **444**

NOTE NO. 2

Retaining Wall
Total Wall Lengths

600 feet

NOTE NO. 3

Borrow cross sectional area
55 SF
Length
100 feet

Borrow Cross Sectional Area
25 SF
Length
600 feet

Volume = Sum (area * length)
20500 CF
759 CY **RESULT NO. 3** **759**

NOTE NO. 4

Structure excavation
38 SF
Length
600 feet
Volume = (Sum of Areas) * Depth
22950 CF
850 CY **RESULT NO. 4** **850**

NOTE NO. 5

Structure Backfill
28 SF
Length
600 feet
Volume = (Sum of Areas) * Depth
16800 CF
622 CY **RESULT NO. 5** **622**

I-18 Stork Road at US 101 Southbound Ramps

NOTES AND CALCULATIONS

NOTE NO. 6

AC Pavement
Widening Area (from CAD)
6000 SF
Depth
0.75 feet
Tonnage = Area * Depth * 145lbs/CF / 2000lbs/ton
326 ton

RESULT NO. 6 **326**

NOTE NO. 7

Aggregate base
Area (from CAD)
6000 SF Widenings
Depth
1.25 feet
Volume = (Sum of Areas) * Depth
7500 CF
278 CY

RESULT NO. 7 **278**

NOTE NO. 8

Slurry seal
Area (from CAD)
30000 SF
Tonnage = area / 1500SF/ton
20 ton

RESULT NO. 8 **20**

NOTE NO. 9

Remove guard rail
100 feet South of structure
500 feet Along ramp

RESULT NO. 9 **600**

NOTE NO. 10

Midwest guard rail
100 feet South of structure

RESULT NO. 10 **100**

NOTE NO. 11

Concrete barrier
600 feet Installed on retaining wall

RESULT NO. 11 **600**

NOTE NO. 12

Retaining Wall Cross Sectional Area
55 SF
Length
600 feet
Volume = Area * Length
32769 CF
1214 CY

RESULT NO. 12 **1214**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-18 Stork Road at US 101 Southbound Ramps

NOTES AND CALCULATIONS

NOTE NO. 13

Signal and Lighting

Scale:	Major		
Legs:	4		
Cost:	$700,000	**RESULT NO. 13**	**$700,000**

NOTE NO. 14

Permanent Pavement Delineation

Cost	$60,000	**RESULT NO. 14**	**$60,000**

NOTE NO. 15

Bike path pavement

Length

1400 feet

Width

14 feet

Depth

0.50 feet

Volume = Area * Length

9800 CF

363	CY	**RESULT NO. 15**	**363**

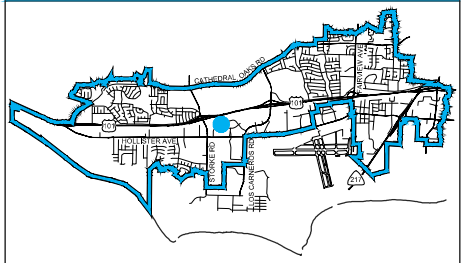


30' 0' 30' 60'

1 inch = 60 ft.

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-18: Storke Road at US 101 Southbound Ramps



Notes

1. Widen Storke Rd to the east to accommodate two free right turn lanes onto southbound US 101 on-ramp.
2. Widen structure to accommodate new turning lanes and Class I paths.
3. Add Class I paths on both sides of Storke Road.

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

Fr 05 Feb 26 10:52:57 AM C:\Box\Projects\GIGOL Goleta\GIGOL 240089 GTIP-DIF 20255 Engl_CAD_Exhibits\Project I-18.dwg

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-22 Fairview Avenue at Hollister Avenue (Roundabout)

Description:
- Construct two lane roundabout to improve congestion at one of the busiest intersections in the City.
- Provide Class I bike path on NW quandrant.

Scope: Demolition; pavement structural section reconstruction; concrete curb, gutter, sidewalk, truck apron, etc.; drainage modifications; landscaping; right of way.

Limits: Intersection and each leg of Hollister Avenue and Fairview Avenue.

Estimate Type: Planning (City) Estimate Date: 20-Jan-26

Working Days: 280

		Current Year Costs		Section		
Earthwork	$	1,060,300	+	1		
Pavement Structural Section	$	1,692,100	+	2		
Drainage	$	362,100	+	3		
Specialty Items	$	-	+	4		
Environmental	$	650,000	+	5		
Traffic Items	$	495,000	+	6		
Minor Items	$	809,400	+	7		
Roadway Mobilization	$	506,900	+	8		
Roadway Contingency	$	1,115,200	+	9		
TOTAL ROADWAY COST	$	6,691,000	=			
TOTAL STRUCTURES COST	$	-	+	10		
TOTAL CONSTRUCTION COST	**$**	**6,691,000**	=			
TOTAL RIGHT OF WAY COST	**$**	**4,875,000**	=	11		
Management Support	$	669,100	+	10%		
PA&ED Support	$	669,100	+	10%		of Construction Costs
PS&E Support	$	1,003,700	+	15%		
Right of Way Support	$	133,900	+	2%		
Construction Support	$	1,070,600	+	16%		
Support Contingency	$	709,300	+	20%		of Support Costs
TOTAL SUPPORT COST	**$**	**4,256,000**	=			

Total Estimated Project Costs: $ 15,850,000 ✗ **Check Status**

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-22 Fairview Avenue at Hollister Avenue (Roundabout)

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	5,093	x	110.00	= $	560,230	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY		x		= $	-	
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	500,000	= $	500,000	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**1,060,300**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	2,719	x	237.97	= $	647,040	2
Class 2 Aggregate Base	CY	2,778	x	134.30	= $	373,085	3
Slurry Seal	TN	23	x	3,507.95	= $	80,683	4
Minor Concrete (Miscellaneous Construction)	CY	415	x	1,424.58	= $	591,201	5,6,7,8
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**1,692,100**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	9
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	10
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**362,100**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-22 Fairview Avenue at Hollister Avenue (Roundabout)

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	400,000	= $	400,000	
Irrigation System	LS	1	x	125,000	= $	125,000	
Plant Establishment Work	LS	1	x	65,000	= $	65,000	
Implement Erosion Control	LS	1	x	25,000	= $	25,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	35,000	= $	35,000	
				TOTAL ENVIRONMENTAL		**$ 650,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS	1	x	445,000	= $	445,000	11
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	50,000	= $	50,000	
				TOTAL TRAFFIC ITEMS		**$ 495,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	212,975	
Stage Construction and Traffic Handling				6.0%	$	255,570	
ADA Items				2.0%	$	85,190	
Other Minor Items				6.0%	$	255,570	
Total of Section 1-6	$	4,259,500	x	19.0%	= $	809,305	
				TOTAL MINOR ITEMS		**$ 809,400**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	5,068,900	x	10%	= $	506,890	
				TOTAL MOBILIZATION		**$ 506,900**	

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	5,575,800	x	20%	= $	1,115,160	
				TOTAL CONTINGENCY		**$ 1,115,200**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-22 Fairview Avenue at Hollister Avenue (Roundabout)

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	13,000	x	250.00	=	$	3,250,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	50%	x	3,250,000	=	$	1,625,000	
		TOTAL RIGHT OF WAY ESTIMATE					**$ 4,875,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

I-22 Fairview Avenue at Hollister Avenue (Roundabout)

NOTES AND CALCULATIONS

NOTE NO. 1

Roadway excavation area (from CAD)
50,000 SF
Depth of AC
0.75 feet
Depth of base
2.00 feet
Roadway excavation = width * length * depth
137,500 CF
5,093 CY

RESULT NO. 1 **5,093**

NOTE NO. 2

AC pavement area (from CAD)
50,000 SF
Depth of AC
0.75 feet
Roadway excavation = width * length * depth
37,500 CF * 145 pounds/CF / 2,000 pounds/ton
2,719 TN

RESULT NO. 2 **2,719**

NOTE NO. 3

Aggregate base area (from CAD)
50,000 SF
Depth of base
1.50 feet
Roadway excavation = width * length * depth
75,000 CF
2,778 CY

RESULT NO. 3 **2,778**

NOTE NO. 4

Approaches to project
Length along:

150	feet	northerly Fairview
150	feet	easterly Hollister
50	feet	southerly Fairview
100	feet	westerly Hollister

Width

86	feet	northerly Fairview
72	feet	easterly Hollister
56	feet	southerly Fairview
86	feet	westerly Hollister

Area
35,100 feet
Coverage rate
1,500 SF/TN
23 CY

RESULT NO. 4 **23**

I-22 Fairview Avenue at Hollister Avenue (Roundabout)

NOTES AND CALCULATIONS

NOTE NO. 5

New sidewalk length

225	feet	Fairview NW
100	feet	Fairview NE
420	feet	Hollister NE
100	feet	Hollister SE
100	feet	Fairview SE
110	feet	Fairview SW
200	feet	Hollister SW
225	feet	Hollister NW
1480	feet	TOTAL

Sidewalk width (most of it is multi-use path)

10 feet

Sidewalk thickness

4 inches

Volume = Minor Concrete (Miscellaneous Construction)

4933 CF

183 CY

Additional area for Class I bike path in NW quadrant

600 SF

Sidewalk thickness

6 inches

Volume = Minor Concrete (Miscellaneous Construction)

300 CF

11 CY

TOTAL

194 CY **RESULT NO. 5** **194**

NOTE NO. 6

New Caltrans A2-6 curb and gutter length

240	feet	Fairview NW
115	feet	Fairview NE
450	feet	Hollister NE
110	feet	Hollister SE
110	feet	Fairview SE
120	feet	Fairview SW
225	feet	Hollister SW
240	feet	Hollister NW
1610	feet	TOTAL

Volume / foot

0.06 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

95 CY **RESULT NO. 6** **95**

I-22 Fairview Avenue at Hollister Avenue (Roundabout)

NOTES AND CALCULATIONS

NOTE NO. 7

Driveways and truck apron

4	each			
25	feet	length	Driveway width	
100	feet	TOTAL	20	feet

Driveway area

2000 SF

Truck apron (CAD)

2500 SF

Concrete thickness

6 inches

Volume = Minor Concrete (Miscellaneous Construction)

2250 CF

83 CY **RESULT NO. 7** **83**

NOTE NO. 8

New Caltrans A1-6 curb length

500	feet	northerly Fairview
500	feet	easterly Hollister
225	feet	southerly Fairview
450	feet	westerly Hollister
1,675	feet	TOTAL

Volume / foot

0.03 CY/foot

Volume = Minor Concrete (Miscellaneous Construction)

43 CY **RESULT NO. 8** **43**

NOTE NO. 9

New drop inlets - assumed one each side of the road on each leg

8 each

Depth of drop inlets

5 feet

Drop inlet volume - Caltrans OL-10

Volume / foot

2.39 CY (3 feet deep)

0.28 CY/each additional foot of depth up to 8 feet

Volume = Minor Concrete (Miscellaneous Construction)

24 CY **RESULT NO. 9** **24**

NOTE NO. 10

Estimated length of RCP

1,500 feet **RESULT NO. 10** **1,500**

NOTE NO. 11

New street lights

12 each

Cost per street light

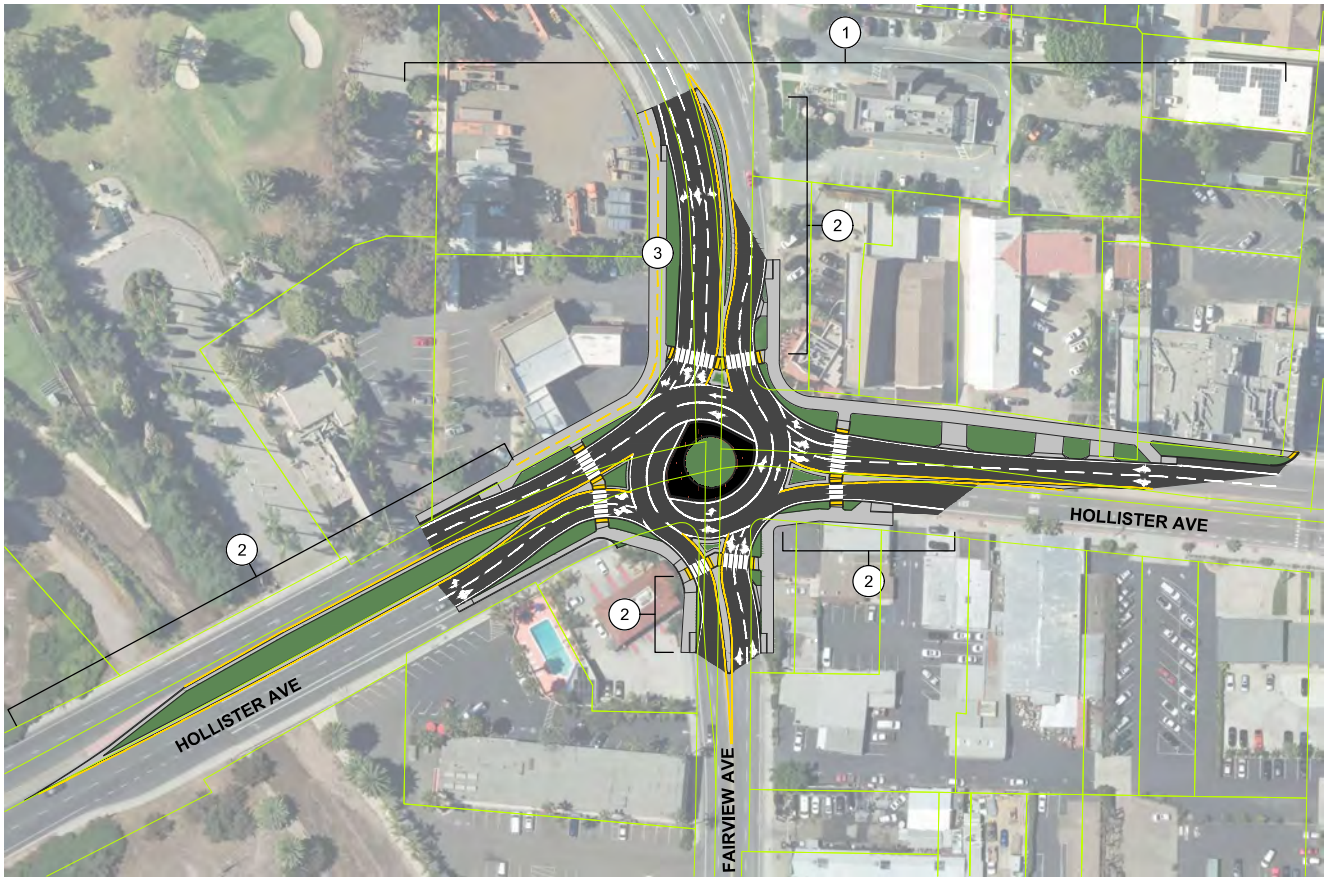
$ 35,000

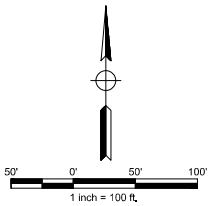
Total lights

$ 420,000

Connection

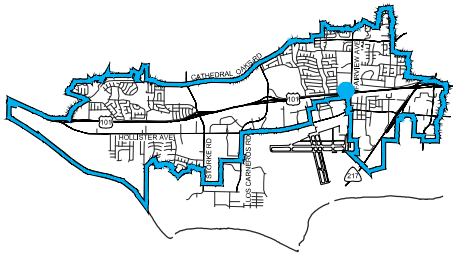
$ 25,000 **RESULT NO. 11** **$ 445,000**





GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project I-22: Fairview Avenue at Hollister Avenue Roundabout



Notes

1. Construct a two-lane roundabout at the intersection of Hollister Ave and Fairview Ave.
2. Construct splitter islands in place of left turn lanes. Islands to connect to existing medians where present.
3. Construct Class I path.

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project I-22.dwg
Thu 23 Oct 25 11:53:27 AM

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-02 Hollister Avenue Old Town (Complete Streets)

Description: Hollister Avenue beautification and pedestrian improvements.
- Bike lanes in each direction.
- Widen sidewalks and provide ADA accessible pathways where feasible.
- Addition of street furniture, lighting and landscaping.
- Improvements to street drainage.
- Reconstruction where necessary and re-paving of Hollister Avenue.
- Reconstruction of sidewalk curbs and gutters.

Scope: Demolition; pavement widening; concrete curb, gutter, sidewalk, etc.; drainage system modifications; utility relocation; pavement delineation and slurry seal; traffic signal.

Limits: Fairview Avenue to Kellogg Avenue.

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 300

		Current Year Costs		Section	
Earthwork	$	463,900	+	1	
Pavement Structural Section	$	1,415,400	+	2	
Drainage	$	422,500	+	3	
Specialty Items	$	-	+	4	
Environmental	$	475,000	+	5	
Traffic Items	$	1,400,000	+	6	
Minor Items	$	584,800	+	7	
Roadway Mobilization	$	476,200	+	8	
Roadway Contingency	$	1,047,600	+	9	
TOTAL ROADWAY COST	$	6,285,400	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**6,285,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**420,000**	=	11	
Management Support	$	628,500	+	10%	of Construction Costs
PA&ED Support	$	628,500	+	10%	
PS&E Support	$	942,800	+	15%	
Right of Way Support	$	125,700	+	2%	
Construction Support	$	1,005,600	+	16%	
Support Contingency	$	666,300	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**3,998,000**	=		

Total Estimated Project Costs: $ 10,750,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-02 Hollister Avenue Old Town (Complete Streets)

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	1,493	x	160.00	= $	238,880	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY		x		= $	-	
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	225,000	= $	225,000	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**463,900**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN		x		= $	-	
Class 2 Aggregate Base	CY		x		= $	-	
Slurry Seal	TN	148	x	2,700.00	= $	399,600	2
Minor Concrete (Miscellaneous Construction)	CY	713	x	1,424.58	= $	1,015,726	3
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**1,415,400**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	52	x	2,500.00	= $	130,000	4
Reinforced Concrete Pipe	LF	1,500	x	195.00	= $	292,500	5
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**422,500**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-02 Hollister Avenue Old Town (Complete Streets)

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	250,000	= $	250,000	
Irrigation System	LS	1	x	100,000	= $	100,000	
Plant Establishment Work	LS	1	x	75,000	= $	75,000	
Implement Erosion Control	LS	1	x	15,000	= $	15,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	35,000	= $	35,000	
				TOTAL ENVIRONMENTAL		**$ 475,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	1,050,000	= $	1,050,000	6
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	350,000	= $	350,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS		x		= $	-	
				TOTAL TRAFFIC ITEMS		**$ 1,400,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				4.0%	$	167,072	
Stage Construction and Traffic Handling				4.0%	$	167,072	
ADA Items				1.0%	$	41,768	
Other Minor Items				5.0%	$	208,840	
Total of Section 1-6	$	4,176,800	x	14.0%	= $	584,752	
				TOTAL MINOR ITEMS		**$ 584,800**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	4,761,600	x	10%	= $	476,160	
				TOTAL MOBILIZATION		**$ 476,200**	

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	5,237,800	x	20%	= $	1,047,560	
				TOTAL CONTINGENCY		**$ 1,047,600**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-02 Hollister Avenue Old Town (Complete Streets)

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS	1	x	350,000	=	$	350,000	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	350,000	=	$	70,000	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**420,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-02 Hollister Avenue Old Town (Complete Streets)

NOTES AND CALCULATIONS

NOTE NO. 1

Roadway excavation (areas from CAD)

Bulbouts/Widen Area	28500	SF		
Medians Area	10000	SF		
Bus Stops	1800	SF		
Average Depth	1	feet		
Vol = Areas * Depth/27	1493	CY	**RESULT NO. 1**	**1493**

NOTE NO. 2

Slury Seal existing remaining pavement (area from CAD)

Area	222500	SF		
Tonnage = area / 1500SF/ton	148	ton	**RESULT NO. 2**	**148**

NOTE NO. 3

Minor Concrete (Miscellaneous Construction)

Concrete Sidewalks

Sidewalks Plan Area (from CAD): 28500 SF

Depth: 0.33 feet

Volume = Area * Depth: 9500 CF = 352 CY

Concrete Bus Stops

Sidewalks Plan Area (from CAD): 1800 SF

Depth: 0.50 feet

Volume = Area * Depth: 900 CF = 33 CY

Concrete Curb and Gutter Type A2-6 per Caltrans

Volume / foot: 0.05903 CY/foot

Length: 4096 feet

Volume = length * volume / foot: 242 CY

Concrete Curb A1-6 per Caltrans (medians)

Volume / foot: 0.02585 CY/foot

Length: 3342 feet

Volume = length * volume / foot: 86 CY

RESULT NO. 3 **713**

NOTE NO. 4

Minor Concrete (Minor Structure)

Per Caltrans Standard Plans OL21 Vol

5.71	CY / structure (up to H=3 feet)
0.278	CY for each additional foot
6	Height (feet)
6.544	CY / structure
8	Structure to reconstruct

RESULT NO. 4 **52**

NOTE NO. 5

Reinforced concrete pipe

Length: 1500 feet

RESULT NO. 5 **1500**

NOTE NO. 6

Traffic signals

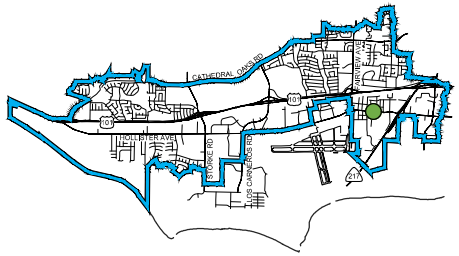
$350,000	Pine - modifications
$350,000	Rutherford - modifications
$350,000	Kinman - modifications

RESULT NO. 6 **$ 1,050,000**

GOLETA TRANSPORTATION
IMPROVEMENTS PROGRAM

Project R-02: Hollister Avenue Old Town (Complete Streets)





Notes

Hollister Avenue beautification and pedestrian improvements. Widen sidewalks and provide ADA accessible pathways, re-surface/repair asphalt, pavement delineation; install furniture and landscaping.

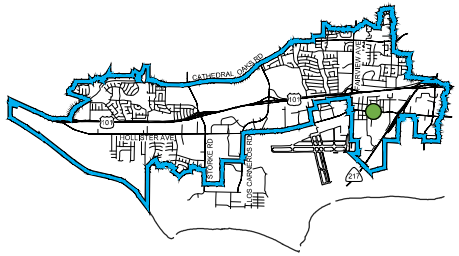
MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

Thu 23 Oct 25 11:54:48 AM C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project R-02.dwg



GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project R-02: Hollister Avenue Old Town (Complete Streets)

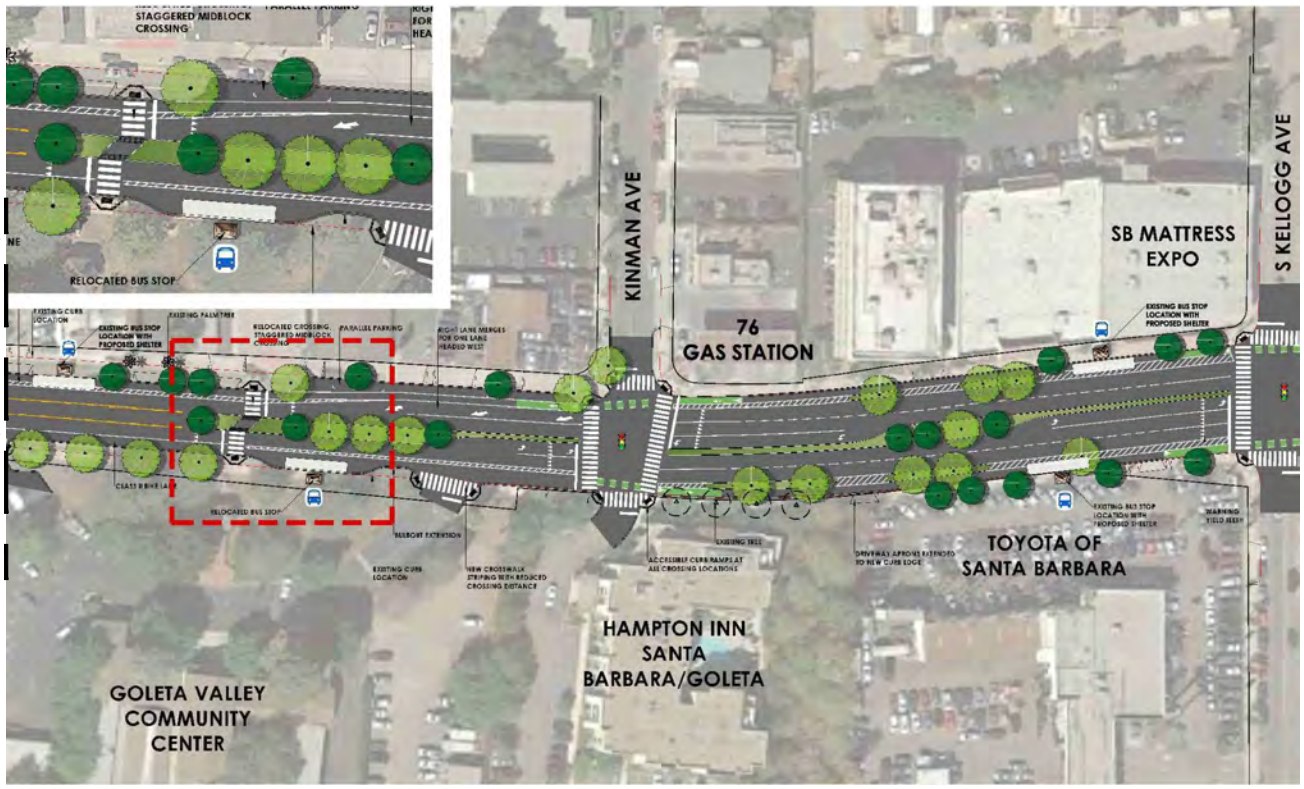


Notes

Hollister Avenue beautification and pedestrian improvements. Widen sidewalks and provide ADA accessible pathways, re-surface/repair asphalt, pavement delineation; install furniture and landscaping.

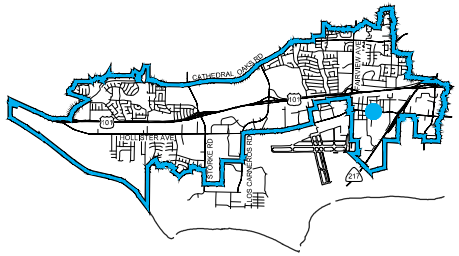
MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

Thu 23 Oct 25 11:54:48 AM C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project R-02.dwg



GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project R-02: Hollister Avenue Old Town (Complete Streets)



Notes

Hollister Avenue beautification and pedestrian improvements. Widen sidewalks and provide ADA accessible pathways, re-surface/repair asphalt, pavement delineation; install furniture and landscaping.

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

Thu 23 Oct 25 11:54:48 AM C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project R-02.dwg

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-05 Ellwood Station Overcrossing (US 101) and Overhead (UPRR)

Description: Construct new pedestrian and bicycle overpass to provide another north-south connection. Alignment and scope is TBD.
- From theintersection of Hollister Avenue and Ellwood Station Road to intersection of Calle Real and San Rossano Drive.
- Pedestrian and bicycle bridge spanning Union Pacific Railroad and US 101.
- Signalized intersection with Calle Real.

Scope: Demolition; new roadway; overhead and overcrossing bridges; retaining walls; traffic signal; pavement delineation; railroad coordination; right of way.

Limits: Hollister Avenue to Calle Real.

Estimate Type: Planning (Caltrans) Estimate Date: 20-Jan-26

Working Days: 240

		Current Year Costs		Section	
Earthwork	$	2,293,500	+	1	
Pavement Structural Section	$	858,600	+	2	
Drainage	$	109,800	+	3	
Specialty Items	$	1,513,400	+	4	
Environmental	$	975,000	+	5	
Traffic Items	$	1,981,300	+	6	
Minor Items	$	657,200	+	7	
Roadway Mobilization	$	838,900	+	8	
Roadway Contingency	$	2,768,400	+	9	
TOTAL ROADWAY COST	$	11,996,100	=		
TOTAL STRUCTURES COST	$	31,093,900	+	10	
TOTAL CONSTRUCTION COST	**$**	**43,090,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**19,500,000**	=	11	
Management Support	$	4,309,000	+	10%	of Construction Costs
PA&ED Support	$	4,309,000	+	10%	
PS&E Support	$	6,463,500	+	15%	
Right of Way Support	$	861,800	+	2%	
Construction Support	$	6,894,400	+	16%	
Support Contingency	$	6,851,400	+	30%	of Support Costs
TOTAL SUPPORT COST	**$**	**29,690,000**	=		

Total Estimated Project Costs: $ 92,300,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-05 Ellwood Station Overcrossing (US 101) and Overhead (UPRR)

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	111	x	328.52	= $	36,466	1
Roadway Excavation (ADL)	CY	1,000	x	332.60	= $	332,600	2
Imported Borrow	CY	1,630	x	40.00	= $	65,200	3
Structure Excavation (Retaining Wall)	CY	1,370	x	300.00	= $	411,000	4
Structure Backfill (Retaining Wall)	CY	1,533	x	325.00	= $	498,225	5
Clearing & Grubbing	LS	1	x	950,000	= $	950,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 2,293,500**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	870	x	237.97	= $	207,034	6
Class 2 Aggregate Base	CY	667	x	295.45	= $	197,065	7
Slurry Seal	TN		x		= $	-	
Minor Concrete (Miscellaneous Construction)	CY	319	x	1,424.58	= $	454,441	8,9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 858,600**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	12	x	2,900.00	= $	34,800	10
Reinforced Concrete Pipe	LF	200	x	375.00	= $	75,000	11
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 109,800**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF	3,300	x	50.00	= $	165,000	12
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY	704	x	1,915.28	= $	1,348,357	13
				TOTAL SPECIALTY ITEMS		**$ 1,513,400**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-05 Ellwood Station Overcrossing (US 101) and Overhead (UPRR)

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	500,000	= $	500,000	
Irrigation System	LS	1	x	175,000	= $	175,000	
Plant Establishment Work	LS	1	x	150,000	= $	150,000	
Implement Erosion Control	LS	1	x	100,000	= $	100,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	50,000	= $	50,000	
				TOTAL ENVIRONMENTAL		**$ 975,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS	1	x	985,000	= $	985,000	14
Signal and Lighting	LS	1	x	956,250	= $	956,250	15
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	40,000	= $	40,000	17
				TOTAL TRAFFIC ITEMS		**$ 1,981,300**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours					$	-	
Stage Construction and Traffic Handling					$	-	
ADA Items				1.0%	$	77,316	
Other Minor Items				7.5%	$	579,870	
Total of Section 1-6	$	7,731,600	x	8.5%	= $	657,186	
				TOTAL MINOR ITEMS		**$ 657,200**	

SECTIONS 8: MOBILIZATION						
Total Section 1-7	$	8,388,800	x	10%	= $	838,880
				TOTAL MOBILIZATION		**$ 838,900**

SECTION 9: ROADWAY CONTINGENCY						
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)						
Total Section 1-8	$	9,227,700	x	30%	= $	2,768,310
				TOTAL CONTINGENCY		**$ 2,768,400**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-05 Ellwood Station Overcrossing (US 101) and Overhead (UPRR)

SECTION 10: STRUCTURES ITEMS

Name / ID	US 101 Overpass	UPRR Overhead	xxxxxxxxx
Structure Type	CIP/PS Box	PC/PS I	--Select Bridge Type--
Width (Feet) [out to out]	16 LF	16 LF	0 LF
Total Bridge Length	700 LF	950 LF	0 LF
Total Area (Square Feet)	9600 SQFT	8520 SQFT	0 SQFT
Complexity	6	6	5
Unusual Features	2	2	0
Cost Per Square Foot	$1,200	$1,200	$0
COST OF EACH BRIDGE	$ 11,520,000	$ 10,224,000	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	21,744,000
Structures Mobilization Percentage	10%	$	2,174,400
Structures Contingency Percentage	30%	$	7,175,520
TOTAL COST OF STRUCTURES		**$**	**31,093,900**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	10,000	x	250.00	=	$	2,500,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS	1	x	2,000,000	=	$	2,000,000	
Railroad - TCE	LS	1	x	1,500,000	=	$	1,500,000	
Railroad - Flaggers	LS	1	x	500,000	=	$	500,000	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	200%	x	6,500,000	=	$	13,000,000	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**19,500,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-05 Ellwood Station Overcrossing (US 101) and Overhead (UPRR)

NOTES AND CALCULATIONS

NOTE NO. 1

Roadway excavation

2,000	SF	Near Hollister

Depth of removals

1.50	feet	

Volume = area * depth

3,000	CF	
111	CY	

RESULT NO. 1 **111**

NOTE NO. 2

Roadway excavation - ADL

Area

18,000	SF	Adjacent to US 101

Depth of removals

1.50	feet	

Volume = area * depth

27,000	CF	
1,000	CY	

RESULT NO. 2 **1,000**

NOTE NO. 3

Import borrow

22,000	SF	

Average Depth

2	feet	Average - ramp up for intersection

Volume = width * length * depth

44,000	CF	
1,630	CY	

RESULT NO. 3 **1,630**

NOTE NO. 4

Structure excavation for new Caltrans Type 1-Case 1 retaining wall

	Calle Real		Hollister Avenue	
Lengths	1,000	feet	100	feet
	0	feet	100	feet
Total wall	1,000	feet	200	feet
Height of grade over toe	2	feet	2	feet
Height of grade over heel	2	feet	2	feet
Footing depth	1.33	feet	1.33	feet
Average depth	3.33	feet	3.33	feet
Footing width	7.25	feet	7.25	feet
Total width	9.25	feet	9.25	feet
Volume / foot	30.8	CF/foot	30.8	CF/foot
Volume	30,833	CF	6,167	CF
	1,142	CY	228	CY

RESULT NO. 4 **1,370**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-05 Ellwood Station Overcrossing (US 101) and Overhead (UPRR)

NOTES AND CALCULATIONS

NOTE NO. 5

Structure backfill for new Caltrans Type 1-Case 1 retaining wall

	Calle Real	Hollister Avenue
Lengths	1,000 feet	100 feet
	0 feet	100 feet
Total wall	1,000 feet	200 feet
Retained height	6 feet	6 feet
Footing width	7 feet	7 feet
Footing toe width	2.25 feet	2.25 feet
Footing toe cover	2 feet	2 feet
Footing heel width	2.5 feet	2.5 feet
Footing heel cover	8 feet	8 feet
Volume / foot	34.5 CF/foot	34.5 CF/foot
Volume	34,500 CF	6,900 CF
	1,278 CY	256 CY

RESULT NO. 5 **1,533**

NOTE NO. 6

AC pavement

16,000 SF Calle Real
2,000 SF Hollister

Depth

0.67 feet

Tonnage = area * depth * 145lbs/CF / 2000lbs/TN

870 TN

RESULT NO. 6 **870**

NOTE NO. 7

Aggregate base

Area (from CAD)

16,000 SF Calle Real
2,000 SF Hollister

Depth

1.00 feet

Volume = area * depth

18,000 CF
667 CY

RESULT NO. 7 **667**

NOTE NO. 8

Concrete sidewalk

Length

1 x	400 =	400 feet	Calle Real connection
1 x	600 =	600 feet	Hollister Avenue connection

Total	1000	feet
Width	14	feet
Thickness	6	inches
Volume	7000	CF
	259	CY

RESULT NO. 8 **259**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-05 Ellwood Station Overcrossing (US 101) and Overhead (UPRR)

NOTES AND CALCULATIONS

NOTE NO. 9

Caltrans A2-6 curb and gutter

Length

1	x	400	=	400 feet	Calle Real connection
1	x	600	=	600 feet	Hollister Avenue connection

Total

1000 feet

Volume / foot

0.06 CY/foot

Volume

60 CY **RESULT NO. 9** **60**

NOTE NO. 10

Minor Concrete (Minor Structure)

New drop inlets

4 each

Depth of drop inlets

5 feet

Drop inlet volume - Caltrans OL-10

Volume / foot

2.39 CY (3 feet deep)

0.28 CY/each additional foot of depth up to 8 feet

Volume

12 CY **RESULT NO. 10** **12**

NOTE NO. 11

Reinforced concrete pipe

200 feet **RESULT NO. 11** **200**

NOTE NO. 12

Chain link fence and railing on bridge

US 101 and UPRR chain link fence

2 ea

1,650 feet

Total

3300 feet **RESULT NO. 12** **3,300**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-05 Ellwood Station Overcrossing (US 101) and Overhead (UPRR)

NOTES AND CALCULATIONS

NOTE NO. 13

New Caltrans Type 1-Case 1 retaining wall

	Calle Real	Hollister Avenue
Lengths	1,000 feet	100 feet
	0 feet	100 feet
Total wall	1,000 feet	200 feet
Retained height	6 feet	6 feet
Stem batter	24 :1	24 :1
Stem top width	11.5 inches	11.5 inches
Stem bottom width	14.5 inches	14.5 inches
Stem volume / foot	6.5 CF/foot	6.5 CF/foot
Footing width	7 feet	7 feet
Footing depth	1.33 feet	1.33 feet
Footing volume / foot	9.33 CF/foot	9.33 CF/foot
Volume / foot	15.8 CF/foot	15.8 CF/foot
Volume	15,833 CF	3,167 CF
	586 CY	117 CY

RESULT NO. 13 **704**

NOTE NO. 14

New street lights
32 each
Cost per street light
$ 30,000
Total lights
$ 960,000
Connection
$ 25,000

RESULT NO. 15 **$ 985,000**

NOTE NO. 15

Signal and Lighting

Scale:	Major
Legs:	3
Cost:	$525,000
Scale:	Minor
Legs:	3
Cost:	$431,250

RESULT NO. 16 **$ 956,250**

NOTE NO. 16

Permanent Pavement Delineation
Cost $40,000

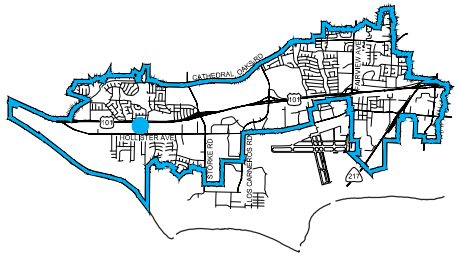
RESULT NO. 17 **$ 40,000**



C:\Box\Projects\CIGOL Goleta\CIGOL240089 GTIP-DIF 2025\5 Engr_CAD_Exhibits\Project R-05.dwg
Fri 06 Feb 26 02:55:38 PM

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project R-05: Ellwood Station Overcrossing (US 101) and Overhead (UPRR)



Notes

1. Reconstruct Calle Real and San Rossano Drive to to provide bicycle and pedestrian connectivity. Add traffic signal.
2. Construct freeway over-crossing.
3. Construct railroad over-crossing.
4. Ellwood Station Road curb extension and sidewalk bypass around and then under structure.

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-09 Phelps Road Extension

Description: Extend Phelps Road from Mesa Road to Los Carneros Road. Widen existing Mesa Road to the north; construct sidewalk; landscape strip; construct Class I facility.
• Link improved Phelps Road with existing Phelps Road within county jurisdiction by removing gate and extending roadway cross-section.
• Install traffic signal at Bayberry Lane for "Day-Care" center.
• Restripe Phelps Road for 11-foot lanes and 4-foot bike lanes.

Scope: Demolition; widen pavement; concrete curb, gutter, sidewalk, etc.; traffic signal; pavement delineation and slurry seal; right of way.

Limits: Storke Road to Los Carneros Road

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 120

		Current Year Costs		Section	
Earthwork	$	653,500	+	1	
Pavement Structural Section	$	1,220,100	+	2	
Drainage	$	-	+	3	
Specialty Items	$	111,000	+	4	
Environmental	$	201,100	+	5	
Traffic Items	$	550,000	+	6	
Minor Items	$	164,200	+	7	
Roadway Mobilization	$	290,000	+	8	
Roadway Contingency	$	638,000	+	9	
TOTAL ROADWAY COST	$	3,827,900	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**3,828,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**12,511,000**	=	11	
Management Support	$	382,800	+	10%	of Construction Costs
PA&ED Support	$	382,800	+	10%	
PS&E Support	$	574,200	+	15%	
Right of Way Support	$	76,600	+	2%	
Construction Support	$	612,500	+	16%	
Support Contingency	$	405,800	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**2,435,000**	=		

Total Estimated Project Costs: $ 18,800,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-09 Phelps Road Extension

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	5,522	x	110.00	= $	607,420	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY		x		=	1/15/2026	
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS		x		= $	-	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**653,500**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	711	x	418.28	= $	297,397	2
Class 2 Aggregate Base	CY	544	x	295.45	= $	160,725	3
Slurry Seal	TN	41	x	2,700.00	= $	110,700	4
Minor Concrete (Miscellaneous Construction)	CY	786	x	828.49	= $	651,193	5
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**1,220,100**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF	1,850	x	60.00	= $	111,000	6
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$**	**111,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-09 Phelps Road Extension

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	100,000	= $	100,000	
Irrigation System	LS	1	x	25,000	=	1/15/2026	
Plant Establishment Work	LS	1	x	20,000	= $	20,000	
Implement Erosion Control	LS	1	x	15,000	= $	15,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	20,000	= $	20,000	
				TOTAL ENVIRONMENTAL		**$ 201,100**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS	1	x	550,000	= $	550,000	7
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS		x		= $	-	
				TOTAL TRAFFIC ITEMS		**$ 550,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours					$	-	
Stage Construction and Traffic Handling				1.0%	$	27,357	
ADA Items				1.0%	$	27,357	
Other Minor Items				4.0%	$	109,428	
Total of Section 1-6	$	2,735,700	x	6.0%	= $	164,142	
				TOTAL MINOR ITEMS		**$ 164,200**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	2,899,900	x	10%	= $	289,990	
				TOTAL MOBILIZATION		**$ 290,000**	

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	3,189,900	x	20%	= $	637,980	
				TOTAL CONTINGENCY		**$ 638,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-09 Phelps Road Extension

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx				xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			####	--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF			0	LF
Total Bridge Length	0	LF		0	LF			0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT			0	SQFT
Complexity	5			5				5	
Unusual Features	0			0				0	
Cost Per Square Foot	$0			$0				$0	
COST OF EACH BRIDGE	$	-		$	-			$	-

Name / ID	xxxxxxxxx			xxxxxxxxx				xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--				--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF			0	LF
Total Bridge Length	0	LF		0	LF			0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT			0	SQFT
Complexity	5			5				5	
Unusual Features	0			0				0	
Cost Per Square Foot	$0			$0				$0	
COST OF EACH BRIDGE	$	-		$	-			$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF	59,577	x	150.00	=	$	8,936,612	8
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	40%	x	8,936,612	=	$	3,574,645	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**12,511,300**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-09 Phelps Road Extension

NOTES AND CALCULATIONS

NOTE NO. 1

Roadway Excavation (areas from CAD)

71400	SF	Phelps eastern terminus and north of Mesa
13800	SF	####

Depth of removals

1.75 feet

Volume = area * depth

149,100 CF

5,522 CY

RESULT NO. 1 **5,522**

NOTE NO. 2

Hot Mix Asphalt

Area (from CAD)

14700 SF Mesa widening and new intersection of Mesa and Phelps

Depth

0.67 feet

Tonnage = area * depth * 145lbs/CF / 2000lbs/ton

711 ton

RESULT NO. 2 **711**

NOTE NO. 3

Aggregate Base

Area (from CAD)

14700 SF New Pavement

Depth

1.00 feet

Volume = area * depth

14700 CF

544 CY

RESULT NO. 3 **544**

NOTE NO. 4

Slurry seal

Area (from CAD) of entire Phleps Extension

61000 SF

Coverage rate (Caltrans)

1500 SF/ton

Tonnage = area / coverage rate

41 ton

RESULT NO. 4 **41**

NOTE NO. 5

Minor concrete (miscellaneous construction)

<u>New Sidewalks and Class I</u>

South Side	12500	SF
North Side	32200	SF

Depth of Concrete

0.33 feet

Total Concrete = Area * Depth

14900 CF

552 CY

<u>Concrete Curb and Gutter Type A2-6 per Caltrans</u>

Volume per linear feet

0.05903 CY/LF

Curb and Gutter Length

South Side	2100	feet
North Side	1870	feet

Total Concrete = Volume per length * length

234 CY

RESULT NO. 5 **786**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-09 Phelps Road Extension

NOTES AND CALCULATIONS

NOTE NO. 6

Chain link fence

1850	feet	along Class I	**RESULT NO. 6**	**1850**

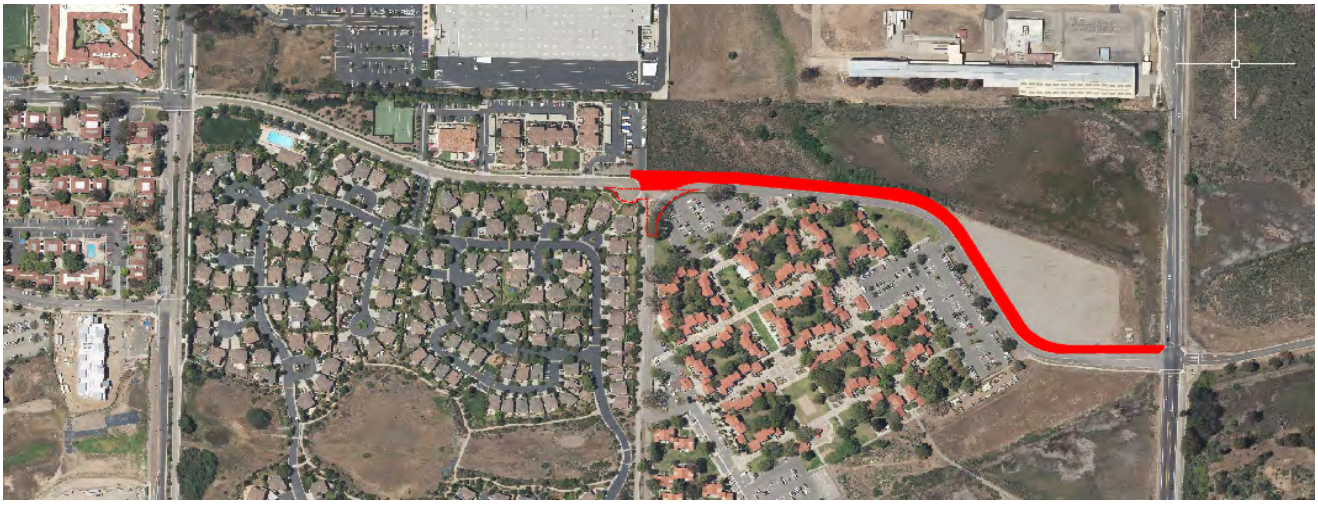
NOTE NO. 7

Signalized Intersection

1	x	$550,000	**RESULT NO. 7**	**$**	**550,000**

NOTE NO. 8

Right of way acquisition

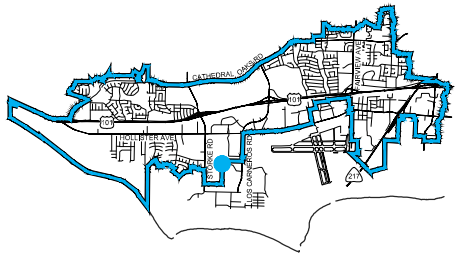


59577	SF	widening to the north requires ROW	**RESULT NO. 8**	**59577**



GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project R-09: Phelps Road Extension



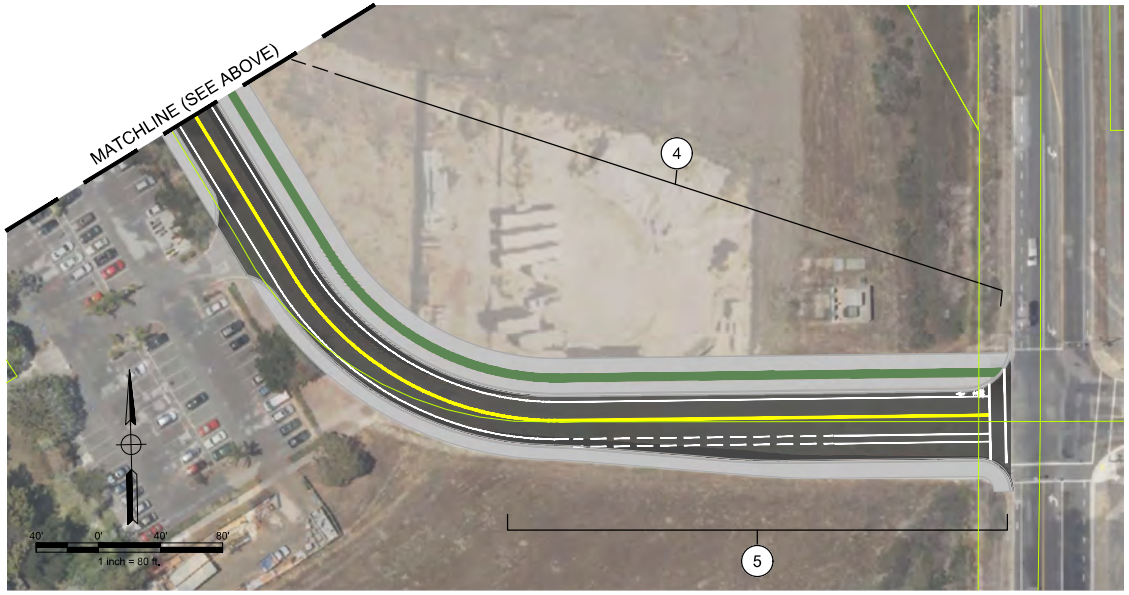
NOTES

1. Restripe Phelps Road for 11-foot lanes and 4-foot bike lanes.
2. Install traffic signal at Bayberry Lane for "Day Care" center.
3. Link existing Phelps Road to proposed extension within County jurisdiction.
4. Extend Phelps Road from Mesa Road to Los Carneros Road. Widen existing road to the north to construct sidewalk, bike lanes, landscape strip and Class I facility.

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

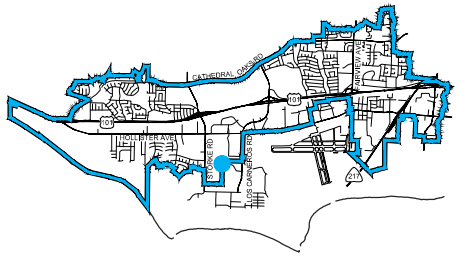
C:\Box\Projects\GGOL Goleta\GGOL 240089 GTIP-DIF 2025\5 Engr_CAD_Exhibits\Project R-09.dwg
Wed 14-Jan-26 11:58:30 AM





GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project R-09: Phelps Road Extension



NOTES

(4) Extend Phelps Road from Mesa Road to Los Carneros Road. Widen existing road to the north to construct sidewalk, bike lanes, landscape strip and Class I facility

(5) Widen existing road to the south to construct a right turn lane

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\GCOL Goleta\GCOL 240089 GTIP-DIF 20255 Engl_CAD_Exhibits\Project R-09.dwg
Wed 14-Jan-26 11:58:30 AM

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-10 US 101 Northbound Auxiliary Lane (North Segment)

Description:
- Construct an auxiliary lane on US 101 NB between Los Carneros Road and Glen Annie Road and Storke Road.
- Widen freeway pavement to the north and construct retaining walls along north edge of pavement.
- Construction of retaining walls along north side of US 101.
- Add second lane on off-ramp.

Scope: Demolition; pavement widening; retaining walls; pavement delineation.

Limits: Storke Road to Los Carneros Road

Estimate Type: Planning (Caltrans) Estimate Date: 15-Jan-26

Working Days: 240

		Current Year Costs		Section	
Earthwork	$	3,629,700	+	1	
Pavement Structural Section	$	1,411,800	+	2	
Drainage	$	-	+	3	
Specialty Items	$	2,178,000	+	4	
Environmental	$	925,000	+	5	
Traffic Items	$	375,000	+	6	
Minor Items	$	852,000	+	7	
Roadway Mobilization	$	937,200	+	8	
Roadway Contingency	$	3,092,700	+	9	
TOTAL ROADWAY COST	$	13,401,400	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**13,401,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	1,340,100	+	10%	of Construction Costs
PA&ED Support	$	1,340,100	+	10%	
PS&E Support	$	2,010,200	+	15%	
Right of Way Support	$	268,100	+	2%	
Construction Support	$	2,144,200	+	16%	
Support Contingency	$	2,130,900	+	30%	of Support Costs
TOTAL SUPPORT COST	**$**	**9,234,000**	=		

Total Estimated Project Costs: $ 22,650,000 ✖ **Check Status**

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-10 US 101 Northbound Auxiliary Lane (North Segment)

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	1,545	x	160.00	= $	247,200	2
Roadway Excavation (ADL)	CY	3,604	x	464.86	= $	1,675,355	3
Imported Borrow	CY	231	x	90.00	= $	20,790	4
Structure Excavation (Retaining Wall)	CY	2,285	x	300.00	= $	685,500	5
Structure Backfill (Retaining Wall)	CY	1,541	x	325.00	= $	500,825	6
Clearing & Grubbing	LS	1	x	500,000	= $	500,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 3,629,700**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	4,007	x	237.97	= $	953,546	7
Class 2 Aggregate Base	CY	3,412	x	134.30	= $	458,232	8
Slurry Seal	TN		x		= $	-	
Minor Concrete (Miscellaneous Construction)	CY		x		= $	-	
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,411,800**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ -**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF	19,600	x	50.00	= $	980,000	12
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF	350	x	22.04	= $	7,714	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF	1,000	x	214.48	= $	214,480	9
Structural Concrete, Retaining Wall	CY	870	x	1,121.58	= $	975,775	10
				TOTAL SPECIALTY ITEMS		**$ 2,178,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-10 US 101 Northbound Auxiliary Lane (North Segment)

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	500,000	= $	500,000	
Irrigation System	LS	1	x	150,000	= $	150,000	
Plant Establishment Work	LS	1	x	125,000	= $	125,000	
Implement Erosion Control	LS	1	x	100,000	= $	100,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	50,000	= $	50,000	
				TOTAL ENVIRONMENTAL		**$ 925,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LB	25,000	x	10.00	= $	250,000	
CIDH Pile (Sign Foundation)	LF	25	x	1,000.00	= $	25,000	11
Remove Sign Structure	EA		x		= $	-	
Permanent Pavement Delineation	LS	1	x	100,000	= $	100,000	
				TOTAL TRAFFIC ITEMS		**$ 375,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				5.0%	$	425,975	
Stage Construction and Traffic Handling				2.0%	$	170,390	
ADA Items					$	-	
Other Minor Items				3.0%	$	255,585	
Total of Section 1-6	$	8,519,500	x	10.0%	= $	851,950	
				TOTAL MINOR ITEMS		**$ 852,000**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	9,371,500	x	10%	= $	937,150	
				TOTAL MOBILIZATION		**$ 937,200**	

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	10,308,700	x	30%	= $	3,092,610	
				TOTAL CONTINGENCY		**$ 3,092,700**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-10 US 101 Northbound Auxiliary Lane (North Segment)

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

Name / ID	xxxxxxxxx			xxxxxxxxx			xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF		0	LF
Total Bridge Length	0	LF		0	LF		0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT		0	SQFT
Complexity	5			5			5	
Unusual Features	0			0			0	
Cost Per Square Foot	$0			$0			$0	
COST OF EACH BRIDGE	$	-		$	-		$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	30%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

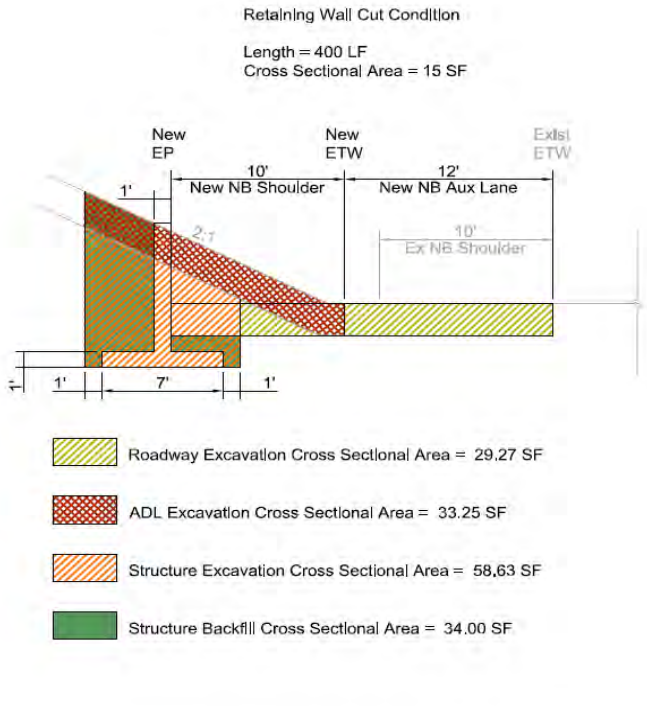
SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	30%	x	0	=	$	-	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**-**

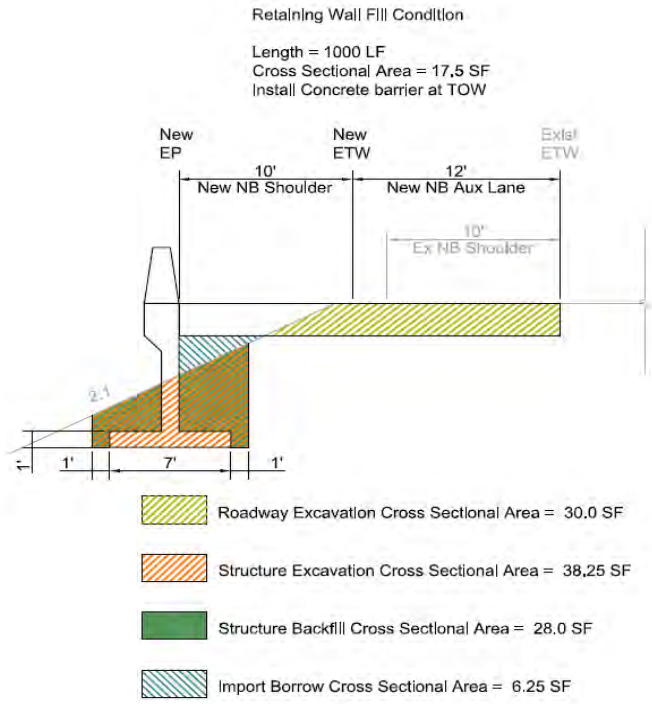
City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-10 US 101 Northbound Auxiliary Lane (North Segment)

NOTES AND CALCULATIONS

NOTE NO. 1





NOTE NO. 2

Roadway excavation

Cut Condition			Fill Condition		
Area	29.27	SF	Area	30	SF
Length	400	LF	Length	1000	LF
Vol = Area * Length			Vol = Area * Length		
	434	CY		1111	CY

RESULT NO. 2 **1545**

NOTE NO. 3

Roadway excavation (ADL)

Cut Condition

Area	33.25	SF
Length	400	LF
Vol = Area * Length		
	493	CY

Ramp Widening for Second Lane

Area	42000	SF
Depth	2	LF
Vol = Area * Length		
	3111	CY

Total 3604 CY

RESULT NO. 3 **3604**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-10 US 101 Northbound Auxiliary Lane (North Segment)

NOTES AND CALCULATIONS

NOTE NO. 4

Import borrow

Fill Condition

Area	6.25	SF
Length	1000	LF

Vol = Area * Length

231 CY

RESULT NO. 4 **231**

NOTE NO. 5

Structure excavation

Cut Condition			Fill Condition		
Area	58.63	SF	Area	38.25	SF
Length	400	LF	Length	1000	LF

Vol = Area * Length — 869 CY

Vol = Area * Length — 1417 CY

RESULT NO. 5 **2285**

NOTE NO. 6

Structure backfill

Cut Condition			Fill Condition		
Area	34	SF	Area	28	SF
Length	400	LF	Length	1000	LF

Vol = Area * Length — 504 CY

Vol = Area * Length — 1037 CY

RESULT NO. 6 **1541**

NOTE NO. 7

AC Pavement area (from CAD)

73700 SF

Depth

0.75 feet

Tonnage = Area * Depth * 145lbs/CF / 2000lbs/ton

4007 ton

RESULT NO. 7 **4007**

NOTE NO. 8

Aggregate base area (from CAD)

73700 SF

Depth

1.25 feet

Volume = (Sum of Areas) * Depth

92125 CF

3412 CY

RESULT NO. 8 **3412**

NOTE NO. 9

Concrete barrier

Length

1000 LF

RESULT NO. 9 **1000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-10 US 101 Northbound Auxiliary Lane (North Segment)

NOTES AND CALCULATIONS

NOTE NO. 10

Structural concrete, retaining wall

Cut Condition			Fill Condition		
Area	15	SF	Area	17.5	SF
Length	400	LF	Length	1000	LF
Vol = Area * Length			Vol = Area * Length		
	222	CY		648	CY

RESULT NO. 10 **870**

NOTE NO. 11

CIDH pile (sign structure)

25	feet	Relocate overhead sign. Foundation only.

RESULT NO. 11 **25**

NOTE NO. 12

Soundwall at R/W NB only

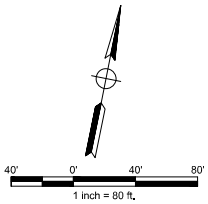
1,400	feet	Length
14	feet	Height
19,600	feet	Relocate overhead sign. Foundation only.

RESULT NO. 12 **19600**





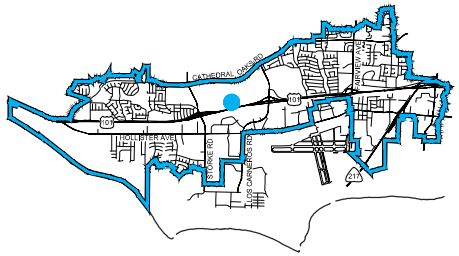




C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Engr_CAD_Exhibits\Project R-10.dwg
Mon 12 Jan 26 03:57:52 PM

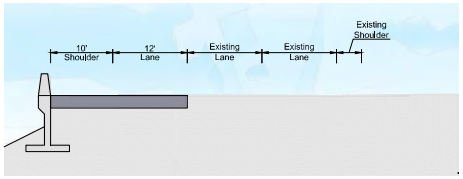
GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project R-10: US 101 Northbound Auxilary Lane (North Segment)



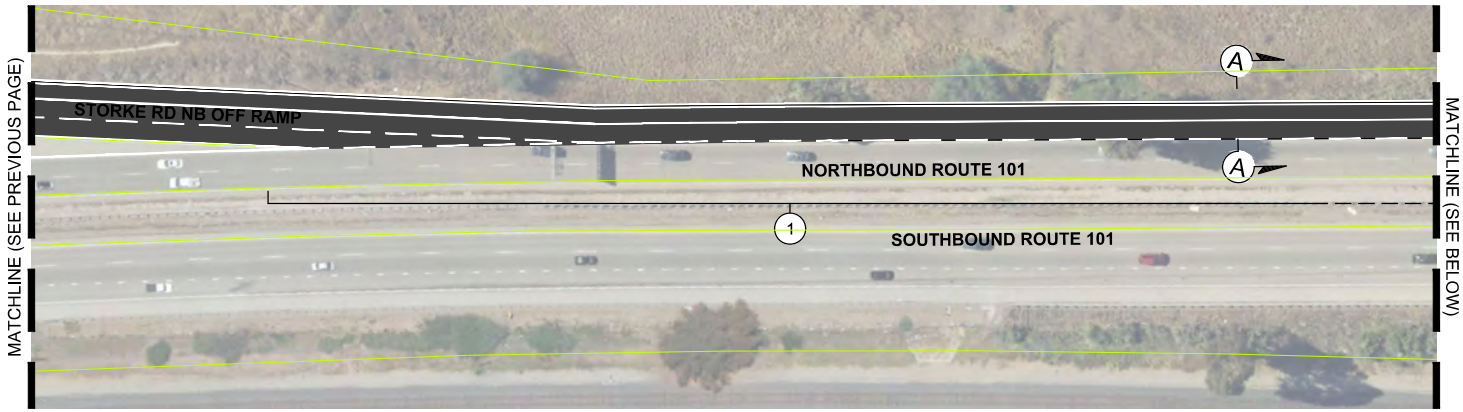
Notes

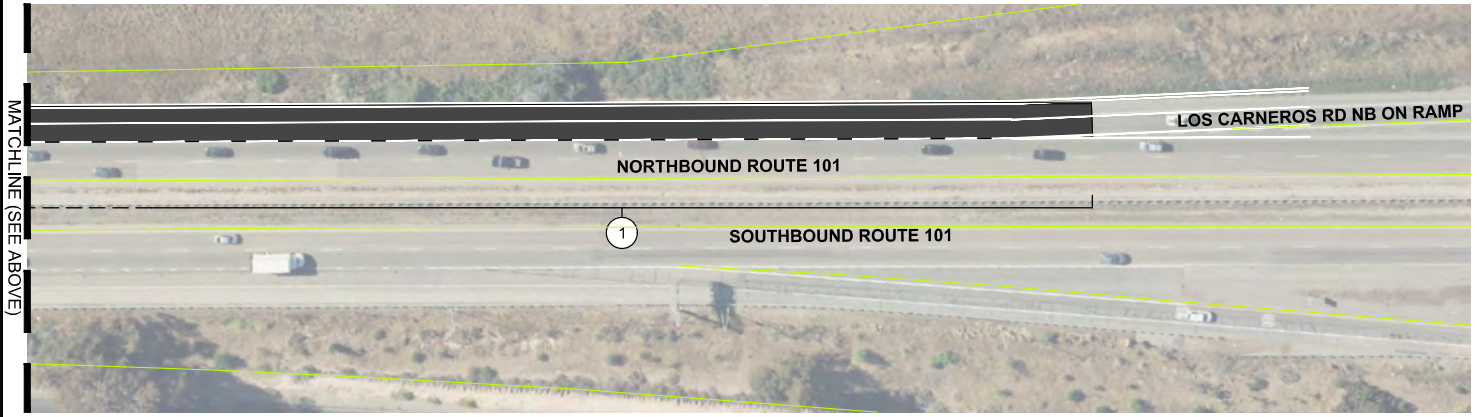
1. Construct 12-foot auxiliary lane with 10-foot shoulder on northbound HWY 101 between Los Carneros Rd & Storke Rd ramps. See cross section A-A.
2. Construct retaining wall. See cross section B-B.

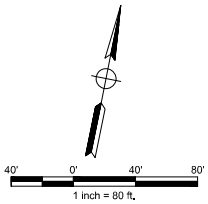


Cross Section A-A

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com



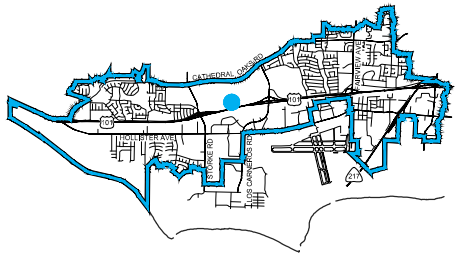




C:\Box\Projects\CIGOL Goleta\CIGOL240089 GTIP-DIF 2025\5 Engr_CAD_Exhibits\Project R-10.dwg
Mon 12 Jan 26 03:57:52 PM

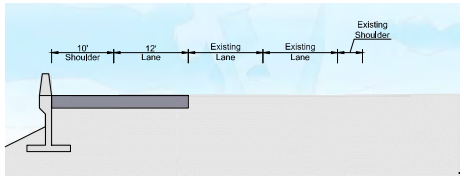
GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project R-10: US 101 Northbound Auxilary Lane (North Segment)



Notes

1. Construct 12-foot auxiliary lane with 10-foot shoulder on northbound HWY 101 between Los Carneros Rd & Storke Rd ramps. See cross section A-A.
2. Construct retaining wall. See cross section B-B.



Cross Section A-A

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-11 US 101 Northbound and Southbound Auxiliary Lanes (South Segment)

Description: Construct auxiliary lanes on US 101 NB and SB.
For northbound auxiliary lane:
• Widening on north side of US 101 between freeway and Calle Real.
• Construct retaining walls on north side of US 101 to avoid right of way takes.
• Extend culverts under US 101 at Las Vegas and San Pedro Creeks.
For southbound auxiliary lane:
• Widening on south side of US 101 between freeway and UPRR.
• Extend culverts under US 101 at Las Vegas and San Pedro Creeks.

Scope: Demolition; pavement widening; retaining wall; pavement delineation.

Limits: Los Carneros Road to Fairview Avenue.

Estimate Type: Planning (Caltrans) Estimate Date: 15-Jan-26

Working Days: 200

		Current Year Costs		Section	
Earthwork	$	2,924,000	+	1	
Pavement Structural Section	$	2,897,800	+	2	
Drainage	$	-	+	3	
Specialty Items	$	4,202,100	+	4	
Environmental	$	990,000	+	5	
Traffic Items	$	50,000	+	6	
Minor Items	$	663,900	+	7	
Roadway Mobilization	$	1,172,800	+	8	
Roadway Contingency	$	3,870,200	+	9	
TOTAL ROADWAY COST	$	16,770,800	=		
TOTAL STRUCTURES COST	$	2,665,800	+	10	
TOTAL CONSTRUCTION COST	**$**	**19,437,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**650,000**	=	11	
Management Support	$	1,943,700	+	10%	of Construction Costs
PA&ED Support	$	1,943,700	+	10%	
PS&E Support	$	2,915,600	+	15%	
Right of Way Support	$	388,800	+	2%	
Construction Support	$	3,110,000	+	16%	
Support Contingency	$	3,090,600	+	30%	of Support Costs
TOTAL SUPPORT COST	**$**	**13,393,000**	=		

Total Estimated Project Costs: $ 33,500,000 ✖ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-11 US 101 Northbound and Southbound Auxiliary Lanes (South Segment)

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	10,884	x	71.00	= $	772,764	2
Roadway Excavation (ADL)	CY	1,666	x	332.60	= $	554,112	3
Imported Borrow	CY	9,107	x	20.00	= $	182,140	4
Structure Excavation (Retaining Wall)	CY	1,686	x	300.00	= $	505,800	5
Structure Backfill (Retaining Wall)	CY	1,259	x	325.00	= $	409,175	6
Clearing & Grubbing	LS	1	x	500,000	= $	500,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 2,924,000**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	12,760	x	174.42	= $	2,225,599	7
Class 2 Aggregate Base	CY	6,519	x	103.10	= $	672,109	8
Slurry Seal	TN		x		= $	-	
Minor Concrete (Miscellaneous Construction)	CY		x		= $	-	
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 2,897,800**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ -**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF	70,000	x	35.00	= $	2,450,000	13
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF	700	x	22.04	= $	15,428	9
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF	900	x	50.50	= $	45,450	10
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF	5,000	x	149.01	= $	745,050	
Structural Concrete, Retaining Wall	CY	494	x	1,915.28	= $	946,148	11
				TOTAL SPECIALTY ITEMS		**$ 4,202,100**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-11 US 101 Northbound and Southbound Auxiliary Lanes (South Segment)

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS	1	x	50,000	= $	50,000	
Highway Planting	LS	1	x	500,000	= $	500,000	
Irrigation System	LS	1	x	150,000	= $	150,000	
Plant Establishment Work	LS	1	x	125,000	= $	125,000	
Implement Erosion Control	LS	1	x	100,000	= $	100,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	65,000	= $	65,000	
				TOTAL ENVIRONMENTAL		**$ 990,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LB	25,000	x	0.00	= $	-	
CIDH Pile (Sign Foundation)	LF	25	x	0.00	= $	-	12
Remove Sign Structure	EA	2	x	0.00	= $	-	
Permanent Pavement Delineation	LS	1	x	50,000	= $	50,000	
				TOTAL TRAFFIC ITEMS		**$ 50,000**	

SECTION 7: MINOR ITEMS						Notes
Traffic Management Plan and Detours				$	-	
Stage Construction and Traffic Handling		3.0%		$	331,917	
ADA Items				$	-	
Other Minor Items		3.0%		$	331,917	
Total of Section 1-6	$ 11,063,900	x 6.0%	=	$	663,834	
		TOTAL MINOR ITEMS			**$ 663,900**	

SECTIONS 8: MOBILIZATION						
Total Section 1-7	$ 11,727,800	x 10%	=	$	1,172,780	
		TOTAL MOBILIZATION			**$ 1,172,800**	

SECTION 9: ROADWAY CONTINGENCY						
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)						
Total Section 1-8	$ 12,900,600	x 30%	=	$	3,870,180	
		TOTAL CONTINGENCY			**$ 3,870,200**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-11 US 101 Northbound and Southbound Auxiliary Lanes (South Segment)

SECTION 10: STRUCTURES ITEMS

Name / ID	Las Vegas Cr Widen	San Pedro Cr N Widen	San Pedro Cr S Widen
Structure Type	RC Box	RC Box	RC Box
Width (Feet) [out to out]	12 LF	12 LF	12 LF
Total Bridge Length	105 LF	110 LF	110 LF
Total Area (Square Feet)	1260 SQFT	1320 SQFT	1320 SQFT
Complexity	5	5	5
Unusual Features	4	4	4
Cost Per Square Foot	$478	$478	$478
COST OF EACH BRIDGE	$ 602,280	$ 630,960	$ 630,960

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	1,864,200
Structures Mobilization Percentage	10%	$	186,420
Structures Contingency Percentage	30%	$	615,186
TOTAL COST OF STRUCTURES		**$**	**2,665,800**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS	1	x	250,000	=	$	250,000	
Railroad - Flaggers	LS	1	x	250,000	=	$	250,000	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	30%	x	500,000	=	$	150,000	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**650,000**	

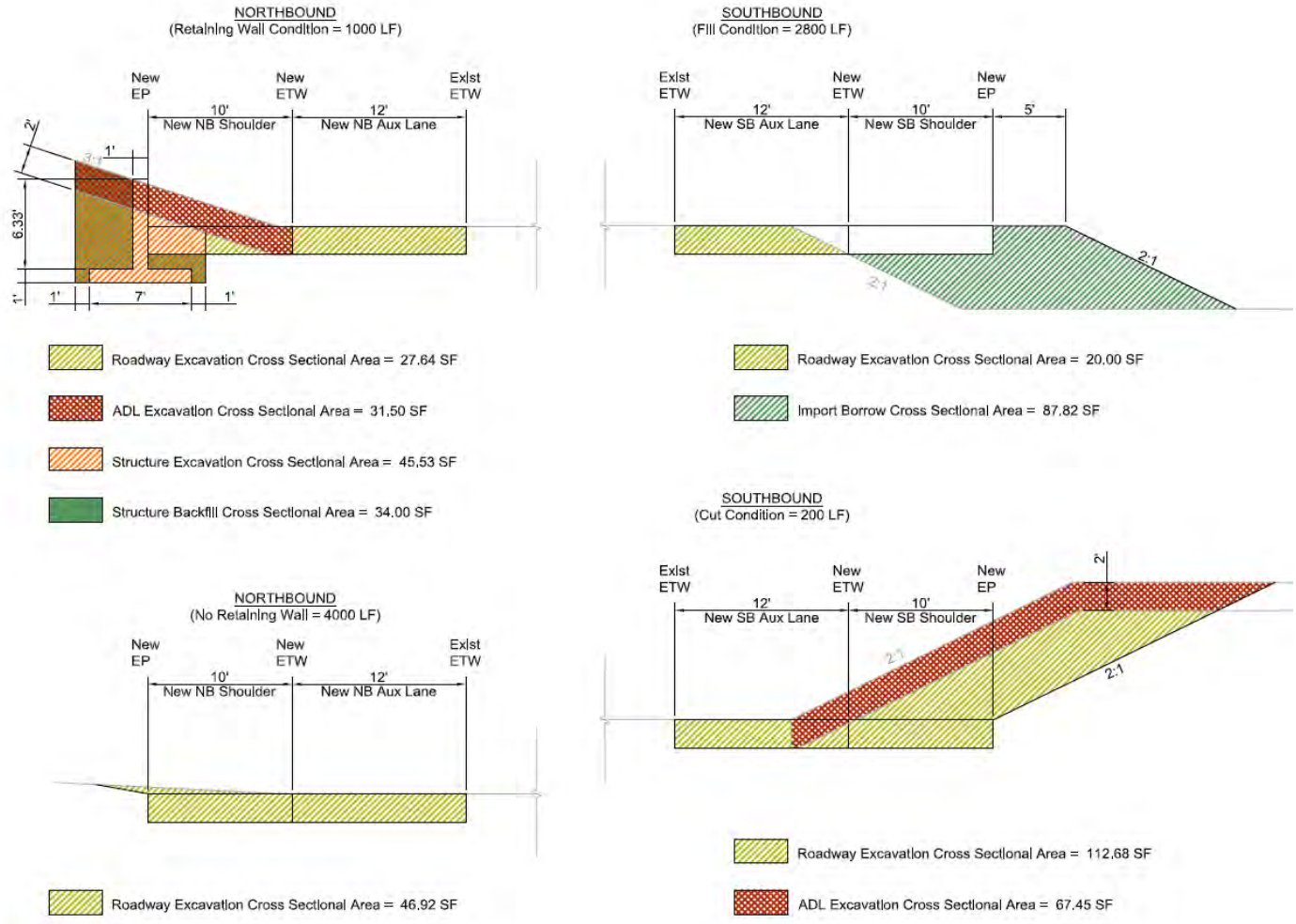
City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-11 US 101 Northbound and Southbound Auxiliary Lanes (South Segment)

NOTES AND CALCULATIONS

NOTE NO. 1

1 #####



NOTE NO. 2

(Roadway Excavation Numbers from Note 1)

Northbound

(2.1) Ret. Wall Condition - Cross Sectional Area
27.64 SF
(2.2) Length of Wall
1000 feet
(2.3) No Ret. Wall - Cross Sectional Area
46.92 SF
(2.4) Length without Ret Wall
4000 feet
Volume = (2.1)* (2.2) + (2.3) * (2.4)
215320 CF
7975 CY

Southbound

(2.5) Fill Condition - Cross Sectional Area
20 SF
(2.6) Length in Fill Condition
2800 feet
(2.7) Cut Condition - Cross Sectional Area
112.68 SF
(2.4) Length in Cut Condition
200 feet
Volume = (2.5)* (2.6) + (2.7) * (2.8)
78536 CF
2909 CY

RESULT NO. 2 **10884**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-11 US 101 Northbound and Southbound Auxiliary Lanes (South Segment)

NOTES AND CALCULATIONS

NOTE NO. 3

(ADL Excavation Numbers from Note 1)

Northbound

(3.1) Ret. Wall Condition - Cross Sectional Area
31.5 SF
(3.2) Length of Wall
1000 feet
Volume = (3.1) * (3.2)
31500 CF
1167 CY

Southbound

(3.3) Cut Condition - Cross Sectional Area
67.45 SF
(3.4) Length in Cut Condition
200 feet
Volume = (3.3) * (3.4)
13490 CF
500 CY

RESULT NO. 3 **1666**

NOTE NO. 4

(Imported Borrow Numbers from Note 1)

Southbound Fill Condition - Cross Sectional Area
87.82 SF
Length of Fill Condition
2800 feet
Volume = Area * Length
245896 CF
9107 CY

RESULT NO. 4 **9107**

NOTE NO. 5

(Structure Excavation Numbers from Note 1)

Northbound Ret. Wall Condition - Cross Sectional Area
45.53 SF
Length of Wall
1000 feet
Volume = Area * Length
45530 CF
1686 CY

RESULT NO. 5 **1686**

NOTE NO. 6

(Structure Backfill Numbers from Note 1)

Northbound Ret. Wall Condition - Cross Sectional Area
34 SF
Length of Wall
1000 feet
Volume = Area * Length
34000 CF
1259.26 CY

RESULT NO. 6 **1259**

NOTE NO. 7

AC pavement area (from CAD)
176000 SF
Depth
1.00 feet
Tonnage = Area * Depth * 145lbs/CF / 2000lbs/ton
12760 ton

RESULT NO. 7 **12760**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-11 US 101 Northbound and Southbound Auxiliary Lanes (South Segment)

NOTES AND CALCULATIONS

NOTE NO. 8

Aggregate base area (from CAD)
176000 SF
Depth
1.00 feet
Volume = Area * Depth
176000 CF
6519 CY

RESULT NO. 8 **6519**

NOTE NO. 9

Remove guard rail
600 feet NB guard rail protecting overhead sign
100 feet SB guard rail protecting San Pedro Creek culvert

RESULT NO. 9 **700**

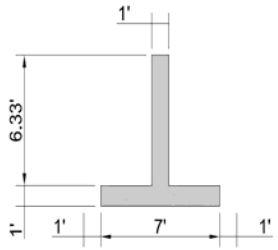
NOTE NO. 10

Install guard railing before creek structures
Creek structure approaches
3 EA
100 feet/EA
Guarding NB Los Carneros Overhead
600 feet

RESULT NO. 10 **900**

NOTE NO. 11

Structural Concrete - NB Ret Wall
Wall Cross Sectional Area
13.33 SF
Length of Wall
1000 feet
Volume = Area * Length
13330 CF
494 CY



Cross Sectional Area of Wall = 13.33 SF

RESULT NO. 11 **494**

NOTE NO. 12

CIDH pile (sign structure)
25 feet Relocate overhead sign. Foundation only.

RESULT NO. 12 **25**

NOTE NO. 13

Soundwall at R/W NB only
5,000 feet Length
14 feet Height
70,000 feet Relocate overhead sign. Foundation only.

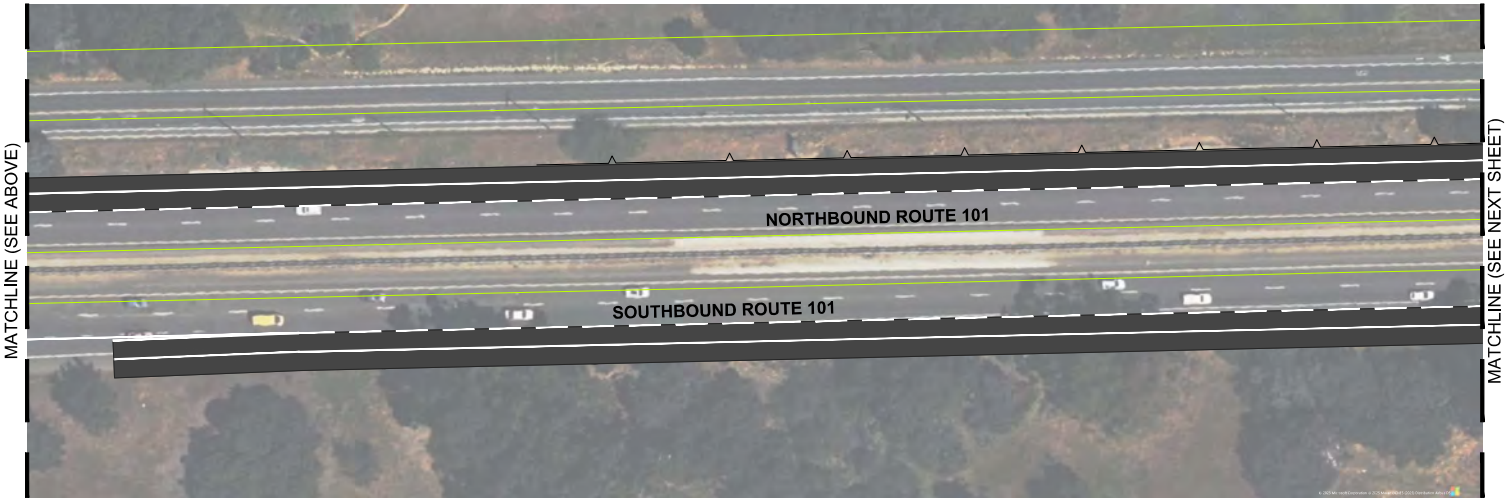
RESULT NO. 13 **70000**

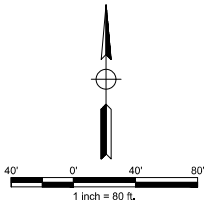
NOTE NO. 14

Concrete barrier at base of sound wall
Length
5000 LF

RESULT NO. 14 **5000**

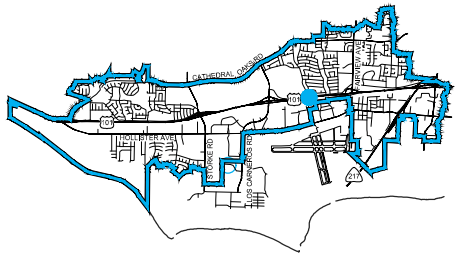






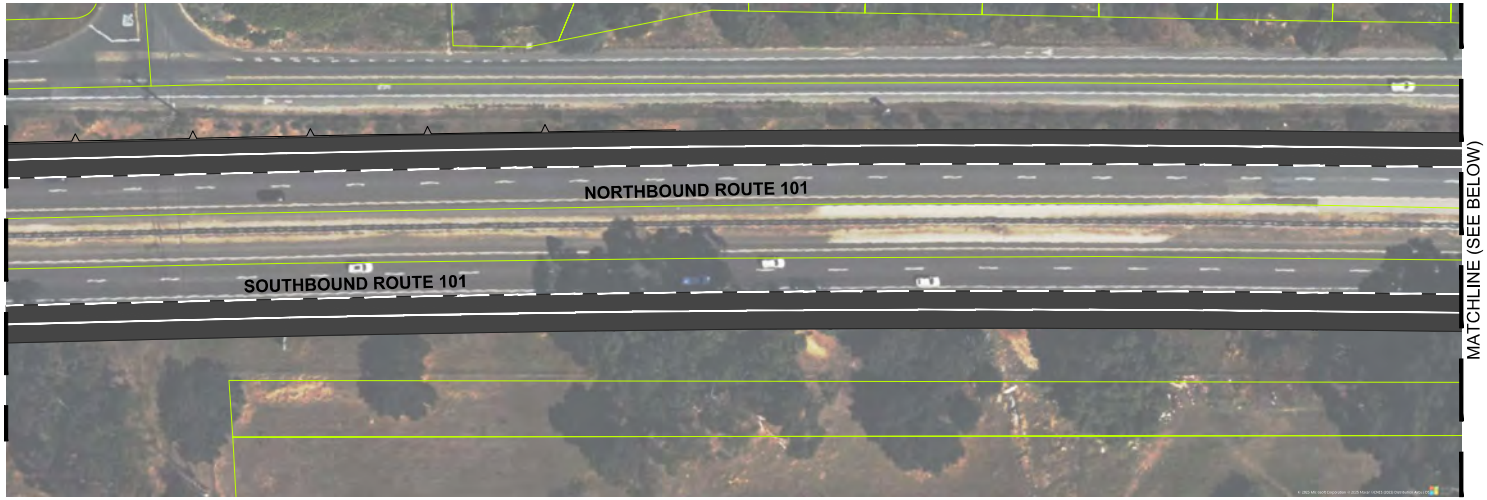
GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project R-11: **US 101 Northbound and Southbound Auxiliary Lanes (South Segment)**



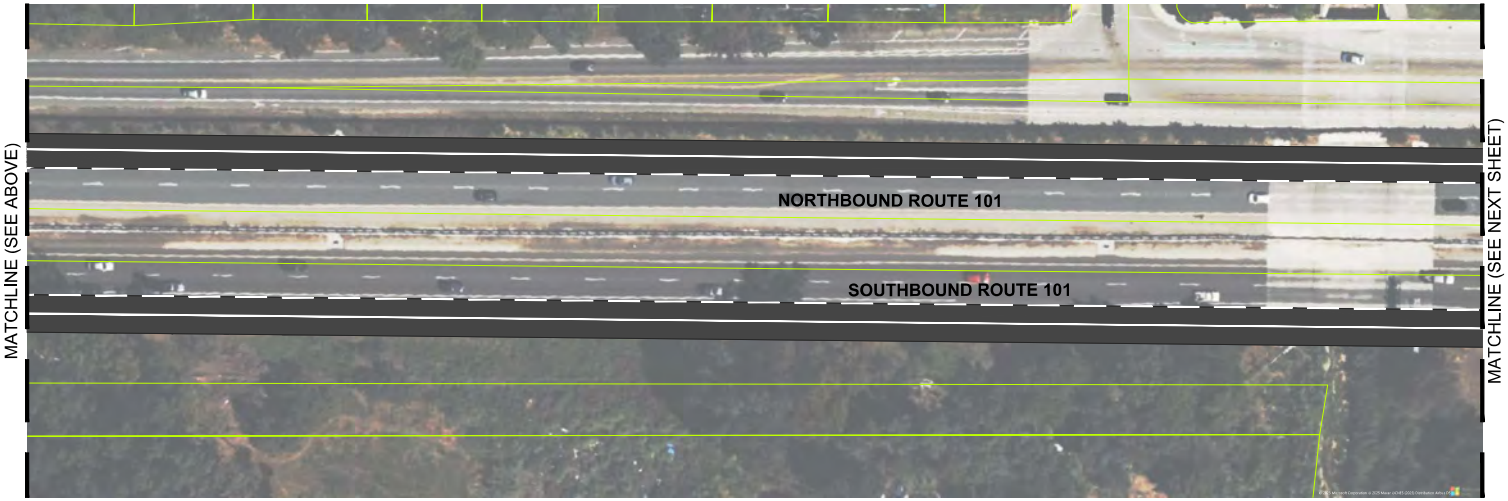
MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\GTIP\GOL 240089 GTIP-DIF 20255 Engl_CAD_Exhibits\Project R-11.dwg
Fri 06 Feb 26 12:19:34 PM



MATCHLINE (SEE PREVIOUS SHEET)

MATCHLINE (SEE BELOW)



MATCHLINE (SEE ABOVE)

MATCHLINE (SEE NEXT SHEET)

40' 0' 40' 80'

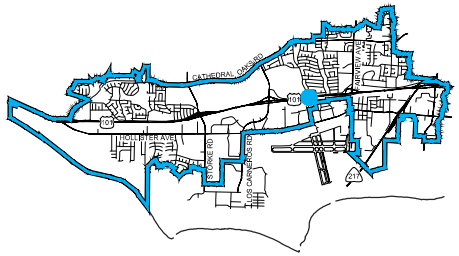
1 inch = 80 ft.

C:\Box\Projects\GCOL Caltrain\GCOL 240089 GTIP-DIF 2025\5 Engl_CAD_Exhibits\Project R-11.dwg

Fri 06 Feb 26 12:19:34 PM

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project R-11: **US 101 Northbound and Southbound Auxiliary Lanes (South Segment)**

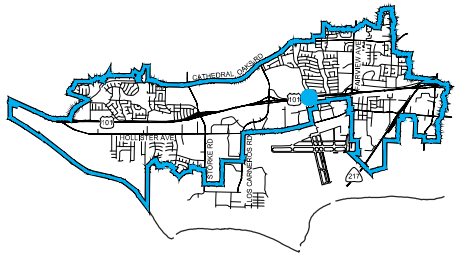


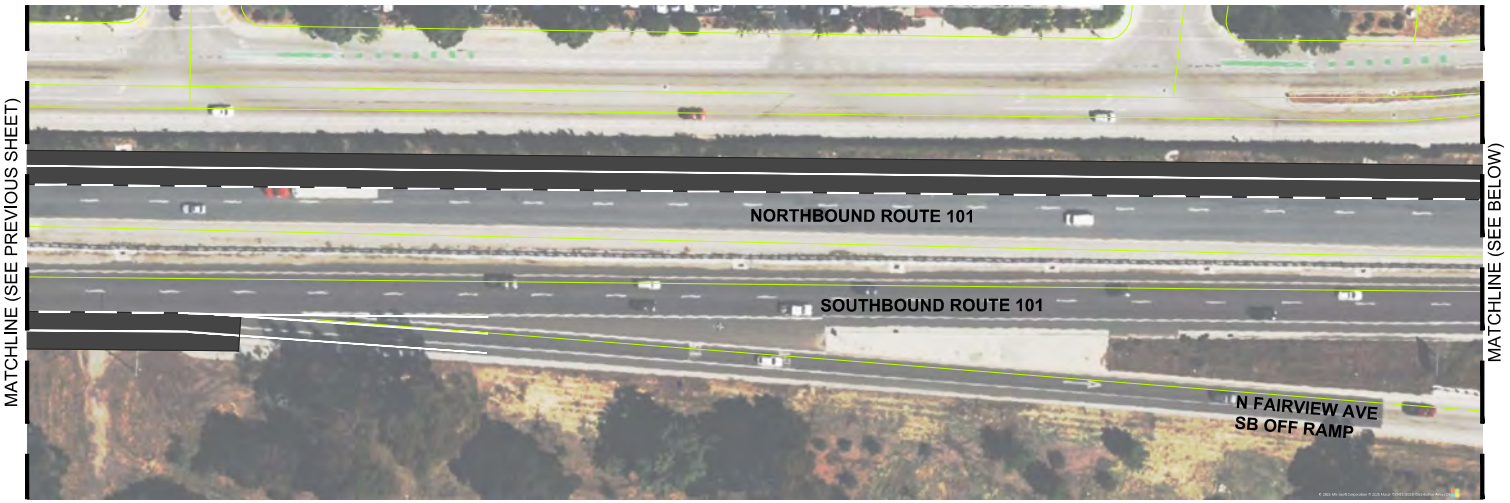
MNS

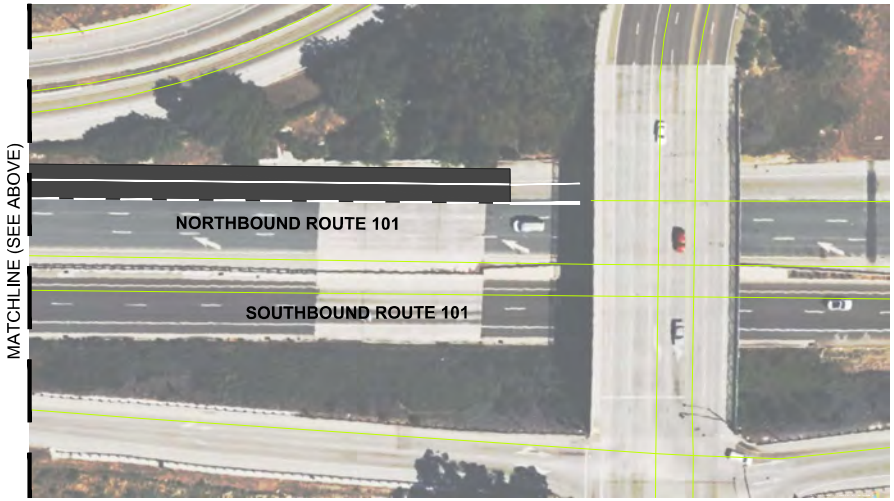
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

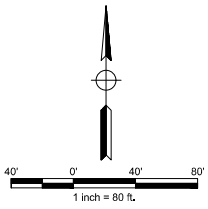
GOLETA TRANSPORTATION
IMPROVEMENTS PROGRAM

Project R-11: **US 101 Northbound and Southbound Auxiliary Lanes (South Segment)**









MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\GCOL Goleta\GCOL 240089 GTIP-DIF 20255 Engr_CAD_Exhibits\Project R-11.dwg
Fri 05 Feb 26 12:19:34 PM

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-12 Storke Road

Description:
- Widen Storke Road from Phelps Road to southern city limits. Complete remaining widening of Storke Road to convert it into a 4 lane roadway with bicycle lanes and sidewalks on both directions.
- Reduce width of planted median.
- Reduce width of existing travel lanes.
- Sidewalk on eastside of Storke Road adjacent to road
- Sidewalk on west side separated from road.

Scope: Demolition; pavement widening; concrete curb, gutter, sidewalk, etc.; retaining wall; pavement delineation.

Limits: Phelps Road to City Limit

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 100

		Current Year Costs		Section	
Earthwork	$	822,800	+	1	
Pavement Structural Section	$	915,800	+	2	
Drainage	$	-	+	3	
Specialty Items	$	747,000	+	4	
Environmental	$	100,000	+	5	
Traffic Items	$	20,000	+	6	
Minor Items	$	156,400	+	7	
Roadway Mobilization	$	276,200	+	8	
Roadway Contingency	$	607,700	+	9	
TOTAL ROADWAY COST	$	3,645,900	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**3,646,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	364,600	+	10%	of Construction Costs
PA&ED Support	$	364,600	+	10%	
PS&E Support	$	546,900	+	15%	
Right of Way Support	$	73,000	+	2%	
Construction Support	$	583,400	+	16%	
Support Contingency	$	386,500	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**2,319,000**	=		

Total Estimated Project Costs: $ 6,000,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-12 Storke Road

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	2,992	x	160.00	= $	478,720	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	155	x	90.00	= $	13,950	3
Structure Excavation (Retaining Wall)	CY	313	x	450.00	= $	140,850	4
Structure Backfill (Retaining Wall)	CY	204	x	560.00	= $	114,240	5
Clearing & Grubbing	LS	1	x	75,000	= $	75,000	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**822,800**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,832	x	237.97	= $	435,961	6
Class 2 Aggregate Base	CY	1,404	x	134.30	= $	188,557	7
Slurry Seal	TN	1	x	3,507.95	= $	3,508	8
Minor Concrete (Miscellaneous Construction)	CY	202	x	1,424.58	= $	287,765	9
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**915,800**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY	390	x	1,915.28	= $	746,959	10
				TOTAL SPECIALTY ITEMS		**$**	**747,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-12 Storke Road

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	40,000	= $	40,000	
Irrigation System	LS	1	x	10,000	= $	10,000	
Plant Establishment Work	LS	1	x	10,000	= $	10,000	
Implement Erosion Control	LS	1	x	15,000	= $	15,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	25,000	= $	25,000	
				TOTAL ENVIRONMENTAL		**$ 100,000**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS		x		= $	-	
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	20,000	= $	20,000	
				TOTAL TRAFFIC ITEMS		**$ 20,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				3.0%	$	78,168	
Stage Construction and Traffic Handling					$	-	
ADA Items				1.0%	$	26,056	
Other Minor Items				2.0%	$	52,112	
Total of Section 1-6	$	2,605,600	x	6.0%	= $	156,336	
				TOTAL MINOR ITEMS		**$ 156,400**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	2,762,000	x	10%	= $	276,200	
				TOTAL MOBILIZATION		**$ 276,200**	

SECTION 9: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-8	$	3,038,200	x	20%	= $	607,640	
				TOTAL CONTINGENCY		**$ 607,700**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-12 Storke Road

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-12 Storke Road

NOTES AND CALCULATIONS

NOTE NO. 1

Roadway excavation area (from CAD)

37900	SF	Widenings
4180	SF	Curb
6389	SF	Sidewalks

Depth

1.67 feet

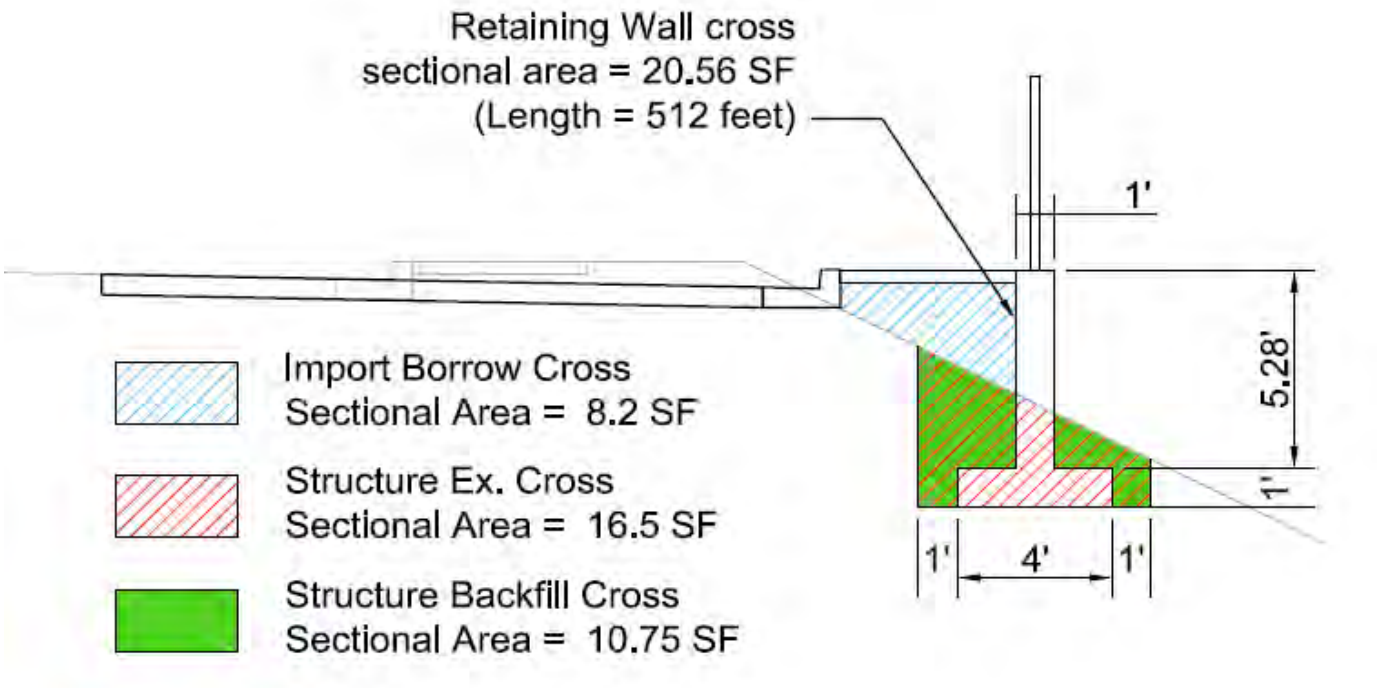
Volume = (Sum of Areas) * Depth

80782 CF

2992 CY

RESULT NO. 1 **2992**

NOTE NO. 2



RESULT NO. 2 **Information Only**

NOTE NO. 3

Imported Borrow

Area (from CAD)

8 SF

Length

512 feet

Volume = Area * Length

4198 CF

155 CY

RESULT NO. 3 **155**

NOTE NO. 4

Structure Excavation

Area (from CAD)

R-12 Storke Road

NOTES AND CALCULATIONS

17 SF
Length of Wall
512 feet
Volume = Area * Length
8448 CF
313 CY **RESULT NO. 4** **313**

NOTE NO. 5

Structure Backfill
Cross Sectional Area
11 SF
Length of Wall
512 feet
Volume = Area * Length
5504 CF
204 CY **RESULT NO. 5** **204**

NOTE NO. 6

AC Pavement
Widening area (from CAD)
37900 SF
Depth
0.67 feet
Tonnage = Area * Depth * 145lbs/CF / 2000lbs/ton
1832 ton **RESULT NO. 6** **1832**

NOTE NO. 7

Aggregate base
Area (from CAD)
37900 SF Widenings
Depth
1.00 feet
Volume = (Sum of Areas) * Depth
37900 CF
1404 CY **RESULT NO. 7** **1404**

NOTE NO. 8

Slurry seal
Seal Existing northbound lane and left turn pocket between Whittier and Willowgrove

Area (CAD) 1682.26 SF

Tonnage = area / 1500SF/TN 1.12 TN

RESULT NO. 8 **1**

NOTE NO. 9

Minor concrete (miscellaneous construction)

<u>Concrete Sidewalks</u>
Sidewalks Plan Area (from CAD)
6389 SF
Depth

<u>Concrete Curb and Gutter Type A2-6 per Caltrans</u>
Volume / foot
0.05903 CY/foot
Length

R-12 Storke Road

NOTES AND CALCULATIONS

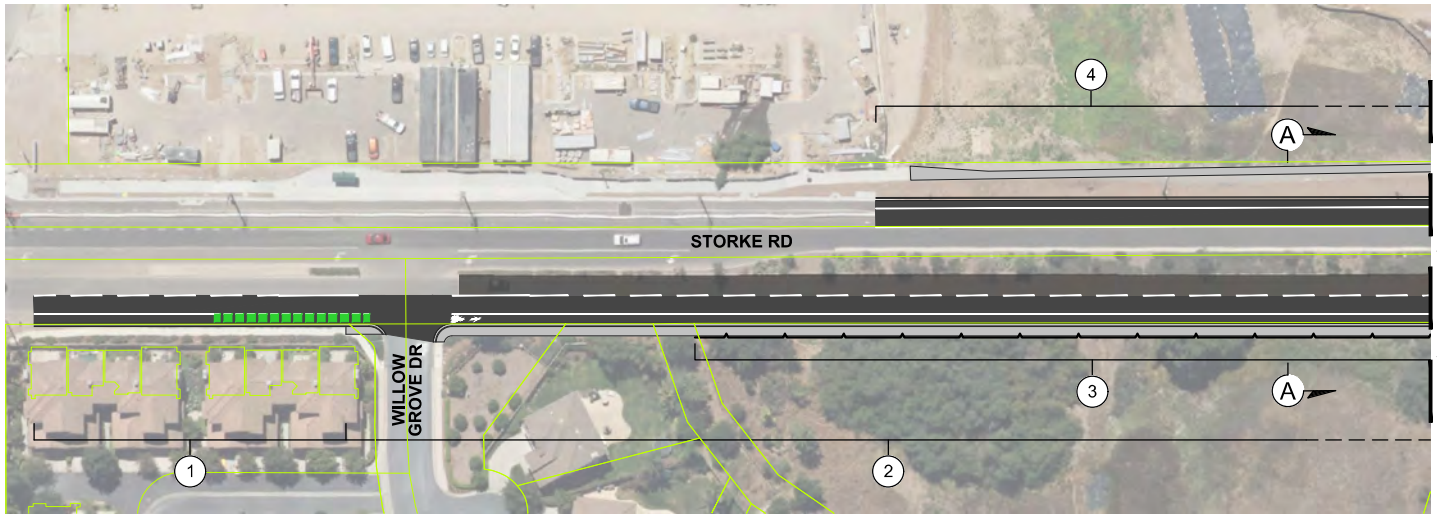
0.33	feet	444 feet	Westerly Curb
Volume = Area * Depth		1415 feet	Easterly curb north of Willowgrove Dr
2130	CF	227 feet	Easterly curb south of Willowgrove Dr
79	CY	Volume = length * volume / foot	
		123 CY	

RESULT NO. 9 **202**

NOTE NO. 10

Retaining Wall
Cross Sectional Area (from CAD)
21 SF
Length
512 feet
Volume = Area * Length
10527 CF
390 CY

RESULT NO. 10 **390**



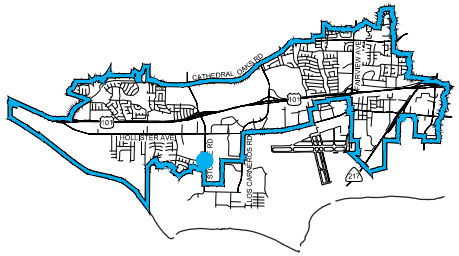


40' 0' 40' 80'
1 inch = 80 ft.

C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Engr_CAD_Exhibits\Project R-12.dwg
Thu 23 Oct 25 12:02:25 PM

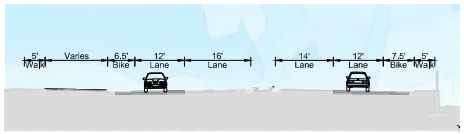
GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project R-12: Storke Road



Notes

1. Widen Storke Rd to the east to accommodate two northbound vehicle lanes and a bicycle lane. Protect existing sidewalk in place.
2. Widen Storke Rd to the east to accommodate two northbound vehicle lanes, a bicycle lanes, and new sidewalk.
3. Construct a retaining wall with decorative railing at the back of new sidewalk to avoid right-of-way impacts.
4. Widen Storke Rd to the west to accommodate two southbound vehicle lanes and a bicycle lane. Construct new sidewalk separated from roadway connecting existing sidewalk segments.



Cross Section A-A

MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-13 Los Carneros Way Realignment

Description: Realign Los Carneros Way to make a new ~~roundabout~~ intersection with Los Carneros Road and Karl Storz Drive. New four lane highway road with bicycle lanes and sidewalks on each direction.
- Realignment of northern 500 feet of Los Carneros Way to the east aligning with Karl Storz Drive.
- Removal of existing Los Carneros Way pavement.
- Modification of medians on Los Carneros Way.
- Major signal modification at Los Carneros Road.

Scope: Demolition; roadway and pavement construction; concrete curb, gutter, sidewalk; pavement delineation and slurry seal; drainage; traffic signal and interconnect; right of way.

Limits: Intersection of Los Carneros Road and Karl Storz Drive to Los Carneros Way south leg.

Estimate Type: Planning (City) Estimate Date: 9-Feb-26

Working Days: 150

		Current Year Costs		Section		
Earthwork	$	1,194,900	+	1		
Pavement Structural Section	$	1,114,600	+	2		
Drainage	$	204,900	+	3		
Specialty Items	$	-	+	4		
Environmental	$	501,100	+	5		
Traffic Items	$	1,165,000	+	6		
Minor Items	$	334,500	+	7		
Roadway Mobilization	$	451,500	+	8		
Roadway Contingency	$	993,300	+	9		
TOTAL ROADWAY COST	$	5,959,800	=			
TOTAL STRUCTURES COST	$	-	+	10		
TOTAL CONSTRUCTION COST	**$**	**5,960,000**	=			
TOTAL RIGHT OF WAY COST	**$**	**12,000,000**	=	11		
Management Support	$	596,000	+	10%		
PA&ED Support	$	596,000	+	10%		
PS&E Support	$	894,000	+	15%		of Construction Costs
Right of Way Support	$	119,200	+	2%		
Construction Support	$	953,600	+	16%		
Support Contingency	$	631,800	+	20%		of Support Costs
TOTAL SUPPORT COST	**$**	**3,791,000**	=			

Total Estimated Project Costs: $ 21,800,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-13 Los Carneros Way Realignment

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	8,000	x	110.00	= $	880,000	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	721	x	90.00	= $	64,890	5
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	250,000	= $	250,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 1,194,900**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	1,903	x	237.97	= $	452,857	2
Class 2 Aggregate Base	CY	1,944	x	134.30	= $	261,079	3
Slurry Seal	TN	20	x	3,507.95	= $	70,159	10
Minor Concrete (Miscellaneous Construction)	CY	232	x	1,424.58	= $	330,503	4
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,114,600**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	6	x	2,900.00	= $	17,400	6
Reinforced Concrete Pipe	LF	500	x	375.00	= $	187,500	7
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 204,900**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-13 Los Carneros Way Realignment

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	250,000	= $	250,000	
Irrigation System	LS	1	x	50,000	=	1/16/2026	
Plant Establishment Work	LS	1	x	30,000	= $	30,000	
Implement Erosion Control	LS	1	x	75,000	= $	75,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	100,000	= $	100,000	
				TOTAL ENVIRONMENTAL		**$ 501,100**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS	1	x	325,000	= $	325,000	8
Signal and Lighting	LS	1	x	700,000	= $	700,000	11
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS	1	x	100,000	= $	100,000	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	40,000	= $	40,000	9
				TOTAL TRAFFIC ITEMS		**$ 1,165,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				2.5%	$	104,513	
Stage Construction and Traffic Handling					$	-	
ADA Items				1.5%	$	62,708	
Other Minor Items				4.0%	$	167,220	
Total of Section 1-6	$	4,180,500	x	8.0%	= $	334,440	
				TOTAL MINOR ITEMS		**$ 334,500**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	4,515,000	x	10%	= $	451,500	
				TOTAL MOBILIZATION		**$ 451,500**	

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	4,966,500	x	20%	= $	993,300	
				TOTAL CONTINGENCY		**$ 993,300**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-13 Los Carneros Way Realignment

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx			xxxxxxxxx				xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--			####	--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF			0	LF
Total Bridge Length	0	LF		0	LF			0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT			0	SQFT
Complexity	5			5				5	
Unusual Features	0			0				0	
Cost Per Square Foot	$0			$0				$0	
COST OF EACH BRIDGE	$	-		$	-			$	-

Name / ID	xxxxxxxxx			xxxxxxxxx				xxxxxxxxx	
Structure Type	--Select Bridge Type--			--Select Bridge Type--				--Select Bridge Type--	
Width (Feet) [out to out]	0	LF		0	LF			0	LF
Total Bridge Length	0	LF		0	LF			0	LF
Total Area (Square Feet)	0	SQFT		0	SQFT			0	SQFT
Complexity	5			5				5	
Unusual Features	0			0				0	
Cost Per Square Foot	$0			$0				$0	
COST OF EACH BRIDGE	$	-		$	-			$	-

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	40,000	x	250.00	=	$	10,000,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	10,000,000	=	$	2,000,000	
TOTAL RIGHT OF WAY ESTIMATE						**$**	**12,000,000**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-13 Los Carneros Way Realignment

NOTES AND CALCULATIONS

NOTE NO. 1

Roadway excavation area (from CAD)
96000 SF
Average Depth
2.25 feet
Volume = Area * Depth
216000 CF
8000 CY

RESULT NO. 1 **8,000**

NOTE NO. 2

AC pavement area (from CAD)
35000 SF
Depth of AC
0.75 feet
Tonnage = Area * Depth * 145lbs/CF / 2000lbs/ton
1903 ton

RESULT NO. 2 **1,903**

NOTE NO. 3

Aggregate base are (from CAD)
35000 SF
Depth
1.50 LF
Volume = Area * Depth
52500 CF
1944 CY

RESULT NO. 3 **1,944**

NOTE NO. 4

New sidewalk length	1200	feet
Sidewalk width (most of it is multi-use path)	8	feet
Sidewalk thickness	4	inches
Volume - Sidewalk	3200	CF
	119	CY
New Caltrans A1-6 curb at median islands	1200	feet
Volume / foot	0.03	CY/foot
Volume - Curb	31	CY
New Caltrans A2-6 curb and gutter length	1400	feet
Volume / foot	0.06	CY/foot
Volume - Curb	83	CY
Volume = Minor Concrete (Miscellaneous Construction)	232	CY

RESULT NO. 4 **232**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-13 Los Carneros Way Realignment

NOTES AND CALCULATIONS

NOTE NO. 5

Import for landscape areas
9,740 SF
Depth
2.00 feet
Volume = width * length * depth
19,480 CF
721 CY

RESULT NO. 5 **721**

NOTE NO. 6

New drop inlets - assumed one each side of the road on each leg
2 each
Depth of drop inlets
5 feet
Drop inlet volume - Caltrans OL-10
Volume / foot
2.39 CY (3 feet deep)
0.28 CY/each additional foot of depth up to 8 feet
Volume = Minor Concrete (Minor Structure)
6 CY

RESULT NO. 6 **6**

NOTE NO. 7

Estimated length of RCP
500 feet

RESULT NO. 7 **500**

NOTE NO. 8

New street lights	6 each
Cost per street light	$ 30,000
Landscape lights	12 each
Cost per street light	$ 10,000
Total lights	$300,000
Connection	$ 25,000

RESULT NO. 8 **$325,000**

NOTE NO. 9

Pavement delineation and marking
$ 40,000

RESULT NO. 9 **$40,000**

NOTE NO. 10

Slurry seal are (from CAD)
30000 SF
Tonnage = area / 1500SF/TN
20 ton

RESULT NO. 10 **20**

NOTE NO. 11

Signal and Lighting
Scale: Major
Legs: 4
Cost: $700,000

RESULT NO. 11 **$700,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-13 Los Carneros Way Realignment

Description: Realign Los Carneros Way to make a new roundabout intersection with Los Carneros Road and Karl Storz Drive. New four lane highway road with bicycle lanes and sidewalks on each direction.
- Realignment of northern 500 feet of Los Carneros Way to the east aligning with Karl Storz Drive.
- Removal of existing Los Carneros Way pavement.
- Modification of medians on Los Carneros Way.
- Roundabout at Los Carneros Road.

Scope: Demolition; roadway and pavement construction; concrete curb, gutter, sidewalk; pavement delineation and slurry seal; drainage; traffic signal and interconnect; right of way.

Limits: Intersection of Los Carneros Road and Karl Storz Drive to Los Carneros Way south leg.

Estimate Type: Planning (City) Estimate Date: 9-Feb-26

Working Days: 150

		Current Year Costs		Section	
Earthwork	$	1,328,300	+	1	
Pavement Structural Section	$	1,820,600	+	2	
Drainage	$	313,400	+	3	
Specialty Items	$	-	+	4	
Environmental	$	746,100	+	5	
Traffic Items	$	840,000	+	6	
Minor Items	$	403,900	+	7	
Roadway Mobilization	$	545,300	+	8	
Roadway Contingency	$	1,199,600	+	9	
TOTAL ROADWAY COST	$	7,197,200	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**7,197,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**13,500,000**	=	11	
Management Support	$	719,700	+	10%	of Construction Costs
PA&ED Support	$	719,700	+	10%	
PS&E Support	$	1,079,600	+	15%	
Right of Way Support	$	144,000	+	2%	
Construction Support	$	1,151,600	+	16%	
Support Contingency	$	763,000	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**4,578,000**	=		

Total Estimated Project Costs: $ 25,300,000 ✗ Check Status

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-13 Los Carneros Way Realignment

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	10,674	x	71.00	= $	757,854	1,12
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	1,759	x	40.00	= $	70,360	5,13
Structure Excavation (Retaining Wall)	CY		x		= $	-	
Structure Backfill (Retaining Wall)	CY		x		= $	-	
Clearing & Grubbing	LS	1	x	500,000	= $	500,000	
				TOTAL EARTHWORK SECTION ITEMS		**$ 1,328,300**	

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	3,181	x	164.79	= $	524,197	2,14
Class 2 Aggregate Base	CY	2,139	x	134.30	= $	287,268	3,15
Slurry Seal	TN	5	x	3,507.95	= $	17,540	10,16
Minor Concrete (Miscellaneous Construction)	CY	696	x	1,424.58	= $	991,508	4,17,18,19
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$ 1,820,600**	

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY	24	x	2,900.00	= $	69,600	6,20
Reinforced Concrete Pipe	LF	1,250	x	195.00	= $	243,750	7,21
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$ 313,400**	

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF		x		= $	-	
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY		x		= $	-	
				TOTAL SPECIALTY ITEMS		**$ -**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-13 Los Carneros Way Realignment

SECTION 5: ENVIRONMENTAL	Unit	Quantity		Unit Price ($)		Cost	Notes
Biological Mitigation	LS		x		= $	-	
Highway Planting	LS	1	x	400,000	= $	400,000	
Irrigation System	LS	1	x	80,000	=	1/16/2026	
Plant Establishment Work	LS	1	x	50,000	= $	50,000	
Implement Erosion Control	LS	1	x	100,000	= $	100,000	
Prepare and Implement SWPPP / WPCP	LS	1	x	150,000	= $	150,000	
				TOTAL ENVIRONMENTAL		**$ 746,100**	

SECTION 6: TRAFFIC ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Lighting and Sign Illumination	LS	1	x	740,000	= $	740,000	8,22
Signal and Lighting	LS		x		= $	-	
Ramp Metering System	LS		x		= $	-	
Interconnection Conduit and Cable	LS		x		= $	-	
Furnish and Install Sign Structure	LS		x		= $	-	
CIDH Pile (Sign Foundation)	LS		x		= $	-	
Remove Sign Structure	LS		x		= $	-	
Permanent Pavement Delineation	LS	1	x	100,000	= $	100,000	9,23
				TOTAL TRAFFIC ITEMS		**$ 840,000**	

SECTION 7: MINOR ITEMS							Notes
Traffic Management Plan and Detours				2.5%	$	126,210	
Stage Construction and Traffic Handling					$	-	
ADA Items				1.5%	$	75,726	
Other Minor Items				4.0%	$	201,936	
Total of Section 1-6	$	5,048,400	x	8.0%	= $	403,872	
				TOTAL MINOR ITEMS		**$ 403,900**	

SECTIONS 8: MOBILIZATION							
Total Section 1-7	$	5,452,300	x	10%	= $	545,230	
				TOTAL MOBILIZATION		**$ 545,300**	

SECTION 9: ROADWAY CONTINGENCY							
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)							
Total Section 1-8	$	5,997,600	x	20%	= $	1,199,520	
				TOTAL CONTINGENCY		**$ 1,199,600**	

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-13 Los Carneros Way Realignment

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx		xxxxxxxxx			xxxxxxxxx		
Structure Type	--Select Bridge Type--		--Select Bridge Type--		####	--Select Bridge Type--		
Width (Feet) [out to out]	0	LF	0	LF		0	LF	
Total Bridge Length	0	LF	0	LF		0	LF	
Total Area (Square Feet)	0	SQFT	0	SQFT		0	SQFT	
Complexity	5		5			5		
Unusual Features	0		0			0		
Cost Per Square Foot	$0		$0			$0		
COST OF EACH BRIDGE	$	-	$	-		$	-	

Name / ID	xxxxxxxxx		xxxxxxxxx			xxxxxxxxx		
Structure Type	--Select Bridge Type--		--Select Bridge Type--			--Select Bridge Type--		
Width (Feet) [out to out]	0	LF	0	LF		0	LF	
Total Bridge Length	0	LF	0	LF		0	LF	
Total Area (Square Feet)	0	SQFT	0	SQFT		0	SQFT	
Complexity	5		5			5		
Unusual Features	0		0			0		
Cost Per Square Foot	$0		$0			$0		
COST OF EACH BRIDGE	$	-	$	-		$	-	

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF	45,000	x	250.00	=	$	11,250,000	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	11,250,000	=	$	2,250,000	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**13,500,000**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-13 Los Carneros Way Realignment

NOTES AND CALCULATIONS

Notes 1 through 10 are for the road realignment. The remaining are specifically for the roundabout.

NOTE NO. 1

Roadway excavation area (from CAD)
96000 SF
Average Depth
2.25 feet
Volume = Area * Depth
216000 CF
8000 CY

RESULT NO. 1 **8,000**

NOTE NO. 2

AC pavement area (from CAD)
35000 SF
Depth of AC
0.75 feet
Tonnage = Area * Depth * 145lbs/CF / 2000lbs/ton
1903 ton

RESULT NO. 2 **1,903**

NOTE NO. 3

Aggregate base are (from CAD)
35000 SF
Depth
1.50 LF
Volume = Area * Depth
52500 CF
1944 CY

RESULT NO. 3 **1,944**

NOTE NO. 4

New sidewalk length	1200	feet
Sidewalk width (most of it is multi-use path)	8	feet
Sidewalk thickness	4	inches
Volume - Sidewalk	3200	CF
	119	CY
New Caltrans A1-6 curb at median islands	1200	feet
Volume / foot	0.03	CY/foot
Volume - Curb	31	CY
New Caltrans A2-6 curb and gutter length	1400	feet
Volume / foot	0.06	CY/foot
Volume - Curb	83	CY
Volume = Minor Concrete (Miscellaneous Construction)	232	CY

RESULT NO. 4 **232**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-13 Los Carneros Way Realignment

NOTES AND CALCULATIONS

NOTE NO. 5

Import for landscape areas
9,740 SF
Depth
2.00 feet
Volume = width * length * depth
19,480 CF
721 CY — **RESULT NO. 5** — **721**

NOTE NO. 6

New drop inlets - assumed one each side of the road on each leg
2 each
Depth of drop inlets
5 feet
Drop inlet volume - Caltrans OL-10
Volume / foot
2.39 CY (3 feet deep)
0.28 CY/each additional foot of depth up to 8 feet
Volume = Minor Concrete (Minor Structure)
6 CY — **RESULT NO. 6** — **6**

NOTE NO. 7

Estimated length of RCP
500 feet — **RESULT NO. 7** — **500**

NOTE NO. 8

New street lights
6 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 300,000
Connection
$ 25,000 — **RESULT NO. 8** — **$ 325,000**

NOTE NO. 9

Pavement delineation and marking
$ 40,000 — **RESULT NO. 9** — **40,000**

NOTE NO. 10

Slurry seal are (from CAD)
30000 SF
Tonnage = area / 1500SF/TN
20 ton — **RESULT NO. 10** — **20**

R-13 Los Carneros Way Realignment

NOTES AND CALCULATIONS

NOTE NO. 11

Number of intersection legs
3 legs
250 feet average approach length
200 feet average splitter island length

NOTE NO. 12

Roadway excavation area (within splitter islands)
26,250
Depth of AC
0.75
Depth of base
2.00
Roadway excavation = width * length * depth
72,188
2,674 **RESULT NO. 12** **2,674**

NOTE NO. 13

Import for landscape areas
14,000 SF
Depth
2.00 feet
Volume = width * length * depth
28,000 CF
1,037 CY **RESULT NO. 13** **1,037**

NOTE NO. 14

AC pavement area
3,500 SF
Depth of AC
0.75 feet
Volume = width * length * depth
2,625 CF

AC pavement area (approaches)
30,000
Depth of AC
0.50
Volume = width * length * depth
15,000 CF

Total
17,625 CF * 145 pounds/CF / 2,000 pounds/ton
1,278 TN **RESULT NO. 14** **1,278**

R-13 Los Carneros Way Realignment

NOTES AND CALCULATIONS

NOTE NO. 15

Aggregate base area in RAB
3,500 SF
Depth of base
1.50 feet
Volume = width * length * depth
5,250 CF

Aggregate base area in approaches
30,000 SF
Depth of base
1.00 feet
Volume = width * length * depth
30,000 CF

35,250 CF
194 CY **RESULT NO. 15** **194**

NOTE NO. 16

Approaches to project
Length (typ)
250 feet
Width
30 feet
Area
7,500 feet
Coverage rate
1,500 SF/TN
5 CY **RESULT NO. 16** **5**

NOTE NO. 17

New sidewalk length
250 feet At roundabout
1500 feet Approaches
1750 feet TOTAL
Sidewalk width (most of it is multi-use path)
10 feet
Sidewalk thickness
4 inches
Volume = Minor Concrete (Miscellaneous Construction)
5833 CF
216 CY **RESULT NO. 17** **216**

R-13 Los Carneros Way Realignment

NOTES AND CALCULATIONS

NOTE NO. 18

New Caltrans A1-6 curb at splitter islands
1200 feet Approaches
1200 feet TOTAL
Volume / foot
0.03 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
31 CY
New Caltrans A2-6 curb and gutter length
400 feet At roundabout
1500 feet Approaches
1900 feet TOTAL
Volume / foot
0.06 CY/foot
Volume = Minor Concrete (Miscellaneous Construction)
112 CY **RESULT NO. 18** **143**

NOTE NO. 19

Truck apron and misc
Truck apron (CAD)
2500 SF
Concrete thickness
9 inches
Volume = Minor Concrete (Miscellaneous Construction)
1875 CF
50% Additional for misc
2813 CF
104 CY **RESULT NO. 19** **104**

NOTE NO. 20

New drop inlets - assumed one each side of the road on each leg
6 each
Depth of drop inlets
5 feet
Drop inlet volume - Caltrans OL-10
Volume / foot
2.39 CY (3 feet deep)
0.28 CY/each additional foot of depth up to 8 feet
Volume = Minor Concrete (Minor Structure)
18 CY **RESULT NO. 20** **18**

NOTE NO. 21

Estimated length of RCP
750 feet **RESULT NO. 21** **750**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-13 Los Carneros Way Realignment

NOTES AND CALCULATIONS

NOTE NO. 22

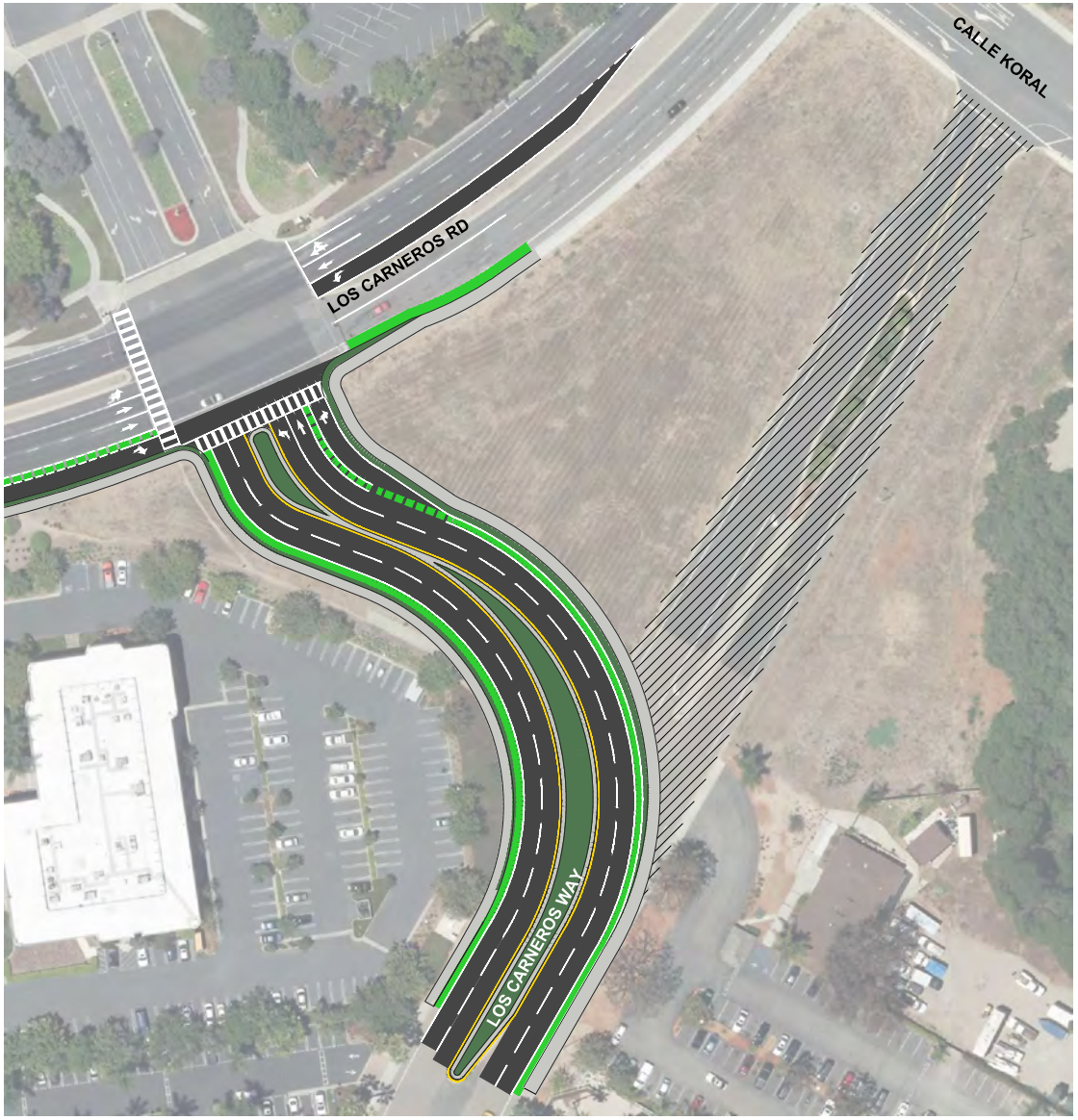
New street lights
9 each
Cost per street light
$ 30,000
Landscape lights
12 each
Cost per street light
$ 10,000
Total lights
$ 390,000
Connection
$ 25,000

RESULT NO. 22 **$ 415,000**

NOTE NO. 23

Pavement delineation and marking
$ 60,000

RESULT NO. 23 **60,000**

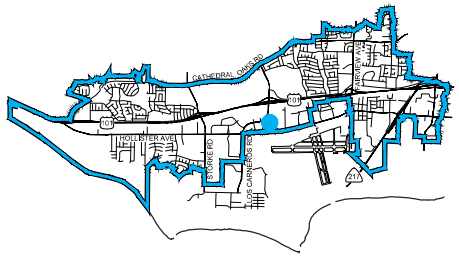


40' 0' 40' 80'

1 inch = 80 ft.

GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project R-13: Los Carneros Way Realignment



MNS

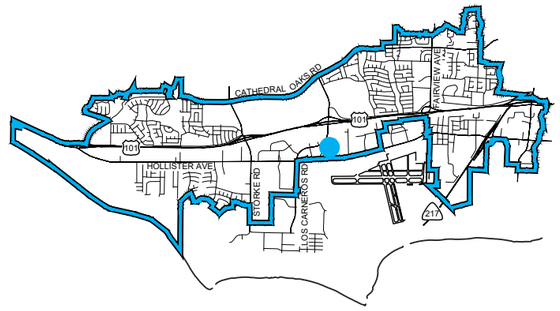
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

Mon 02-Feb-26 02:31:07 PM C:\Box\Projects\CIGOL Goleta\CIGOL240089 GTIP-DIF 2025\5 Engr_CAD_Exhibits\Project R-13_new.dwg



GOLETA TRANSPORTATION IMPROVEMENTS PROGRAM

Project R-13: Los Carneros Way at Los Carneros Road Roundabout



MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\CIGOL Goleta\CIGOL.240089 GTIP-DIF 2025\5 Engl_CADL_Exhibits\Project R-13_RAB.dwg
Tue 24,Mar,26 03:13:49 PM

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-14 South Fairview Avenue Widening

Description: Widen Fairview Ave between Ekwill Street (Project R-1C) and Olney Street. Utilize retaining walls to minimize wetland impacts. Construct sidewalk on east side. Include bike lanes and a center turning lane.
- Widening on west side of Fairview Avenue to accommodate southbound Fairview Avenue left turn pockets between Ekwill Street and Airport property.
- Provide 5 foot sidewalk on east side of Fairview Avenue.
- Maintain one lane of through traffic in each direction.
- Maintain Class II bike lanes in each direction.

Scope: Demolition; pavement widening; retaining wall; pavement delineation; wetlands; City of Santa Barbara coordination.

Limits: Ekwill Street to Olney Street.

Estimate Type: Planning (City) Estimate Date: 15-Jan-26

Working Days: 80

		Current Year Costs		Section	
Earthwork	$	876,100	+	1	
Pavement Structural Section	$	294,800	+	2	
Drainage	$	-	+	3	
Specialty Items	$	1,093,900	+	4	
Environmental	$	310,000	+	5	
Traffic Items	$	15,000	+	6	
Minor Items	$	51,800	+	7	
Roadway Mobilization	$	264,200	+	8	
Roadway Contingency	$	871,800	+	9	
TOTAL ROADWAY COST	$	3,777,600	=		
TOTAL STRUCTURES COST	$	-	+	10	
TOTAL CONSTRUCTION COST	**$**	**3,778,000**	=		
TOTAL RIGHT OF WAY COST	**$**	**-**	=	11	
Management Support	$	377,800	+	10%	of Construction Costs
PA&ED Support	$	377,800	+	10%	
PS&E Support	$	566,700	+	15%	
Right of Way Support	$	75,600	+	2%	
Construction Support	$	604,500	+	16%	
Support Contingency	$	400,500	+	20%	of Support Costs
TOTAL SUPPORT COST	**$**	**2,403,000**	=		

Total Estimated Project Costs: $ 6,200,000 ✖ **Check Status**

Prepared by: _____
Project Engineer

Approved by: _____
Project Manager

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-14 South Fairview Avenue Widening

SECTION 1: EARTHWORK	Unit	Quantity		Unit Price		Cost	Notes
Roadway Excavation	CY	106	x	328.52	= $	34,823	1
Roadway Excavation (ADL)	CY		x		= $	-	
Imported Borrow	CY	1,129	x	40.00	= $	45,160	2
Structure Excavation (Retaining Wall)	CY	1,316	x	300.00	= $	394,800	3
Structure Backfill (Retaining Wall)	CY	1,004	x	325.00	= $	326,300	4
Clearing & Grubbing	LS	1	x	75,000	= $	75,000	
				TOTAL EARTHWORK SECTION ITEMS		**$**	**876,100**

SECTION 2: PAVEMENT STRUCTURAL SECTION	Unit	Quantity		Unit Price		Cost	Notes
Continuously Reinforced Concrete Pavement	CY		x		= $	-	
Hot Mix Asphalt (Type A)	TN	529	x	418.28	= $	-	5
Class 2 Aggregate Base	CY	374	x	295.45	= $	156,293	6
Slurry Seal	TN	17	x	3,507.95	= $	59,635	7
Minor Concrete (Miscellaneous Construction)	CY	65	x	1,212.77	= $	78,830	8
Place Hot Mix Asphalt Dike	LF		x		= $	-	
Cold Plane Asphalt Concrete Pavement	SY		x		= $	-	
				TOTAL PAVEMENT STRUCTURAL SECTION ITEMS		**$**	**294,800**

SECTION 3: DRAINAGE	Unit	Quantity		Unit Price ($)		Cost	Notes
Structural Concrete, Box Culvert	CY		x		= $	-	
Minor Concrete (Minor Structure)	CY		x		= $	-	
Reinforced Concrete Pipe	LF		x		= $	-	
Rock Slope Protection	CY		x		= $	-	
Concrete (Ditch/Channel Lining)	CY		x		= $	-	
				TOTAL DRAINAGE ITEMS		**$**	**-**

SECTION 4: SPECIALTY ITEMS	Unit	Quantity		Unit Price ($)		Cost	Notes
Sound Wall (Masonry Block)	SF		x		= $	-	
Remove Concrete Barrier	LF		x		= $	-	
Remove Metal Beam Guard Railing	LF		x		= $	-	
Chain Link Fence	LF		x		= $	-	
Midwest Guardrail System (Wood Post)	LF	760	x	68.37	= $	51,961	9
Thrie Beam Barrier	LF		x		= $	-	
Terminal System or Crash Cushion	EA		x		= $	-	
Concrete Barrier (TYPE 60M)	LF		x		= $	-	
Structural Concrete, Retaining Wall	CY	544	x	1,915.28	= $	1,041,912	
				TOTAL SPECIALTY ITEMS		**$**	**1,093,900**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-14 South Fairview Avenue Widening

SECTION 5: ENVIRONMENTAL	Unit	Quantity	Unit Price ($)	Cost	Notes
Biological Mitigation	LS	1	x 200,000	= $ 200,000	
Highway Planting	LS	1	x 50,000	= $ 50,000	
Irrigation System	LS	1	x 15,000	= $ 15,000	
Plant Establishment Work	LS	1	x 15,000	= $ 15,000	
Implement Erosion Control	LS	1	x 15,000	= $ 15,000	
Prepare and Implement SWPPP / WPCP	LS	1	x 15,000	= $ 15,000	
			TOTAL ENVIRONMENTAL		**$ 310,000**

SECTION 6: TRAFFIC ITEMS	Unit	Quantity	Unit Price ($)	Cost	Notes
Lighting and Sign Illumination	LS		x	= $ -	
Signal and Lighting	LS		x	= $ -	
Ramp Metering System	LS		x	= $ -	
Interconnection Conduit and Cable	LS		x	= $ -	
Furnish and Install Sign Structure	LS		x	= $ -	
CIDH Pile (Sign Foundation)	LS		x	= $ -	
Remove Sign Structure	LS		x	= $ -	
Permanent Pavement Delineation	LS	1	x 15,000	= $ 15,000	
			TOTAL TRAFFIC ITEMS		**$ 15,000**

SECTION 7: MINOR ITEMS					Notes
Traffic Management Plan and Detours			1.0%	$ 25,898	
Stage Construction and Traffic Handling				$ -	
ADA Items			1.0%	$ 25,898	
Other Minor Items				$ -	
Total of Section 1-6	$	2,589,800	x 2.0%	= $ 51,796	
			TOTAL MINOR ITEMS		**$ 51,800**

SECTIONS 8: MOBILIZATION					
Total Section 1-7	$	2,641,600	x 10%	= $ 264,160	
			TOTAL MOBILIZATION		**$ 264,200**

SECTION 9: ROADWAY CONTINGENCY					
Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)					
Total Section 1-8	$	2,905,800	x 30%	= $ 871,740	
			TOTAL CONTINGENCY		**$ 871,800**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-14 South Fairview Avenue Widening

SECTION 10: STRUCTURES ITEMS

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

Name / ID	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx
Structure Type	--Select Bridge Type--	--Select Bridge Type--	--Select Bridge Type--
Width (Feet) [out to out]	0 LF	0 LF	0 LF
Total Bridge Length	0 LF	0 LF	0 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Complexity	5	5	5
Unusual Features	0	0	0
Cost Per Square Foot	$0	$0	$0
COST OF EACH BRIDGE	$ -	$ -	$ -

TOTAL COST OF BRIDGES		$	-
Structures Mobilization Percentage	10%	$	-
Structures Contingency Percentage	20%	$	-
TOTAL COST OF STRUCTURES		**$**	**-**

SECTION 11: RIGHT OF WAY	Unit	Quantity		Unit Price			Cost	Notes
Acquisition - Residential Property	SF		x		=	$	-	
Acquisition - Commercial Property	SF		x		=	$	-	
Acquisition of Offsite Mitigation	SF		x		=	$	-	
Utility Relocation	LS		x		=	$	-	
Railroad - TCE	LS		x		=	$	-	
Railroad - Flaggers	LS		x		=	$	-	
Clearance / Demolition	SF		x		=	$	-	
Relocation Assistance	LS		x		=	$	-	
Right of Way Contingency	LS	20%	x	0	=	$	-	
		TOTAL RIGHT OF WAY ESTIMATE					**$**	**-**

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-14 South Fairview Avenue

NOTES AND CALCULATIONS

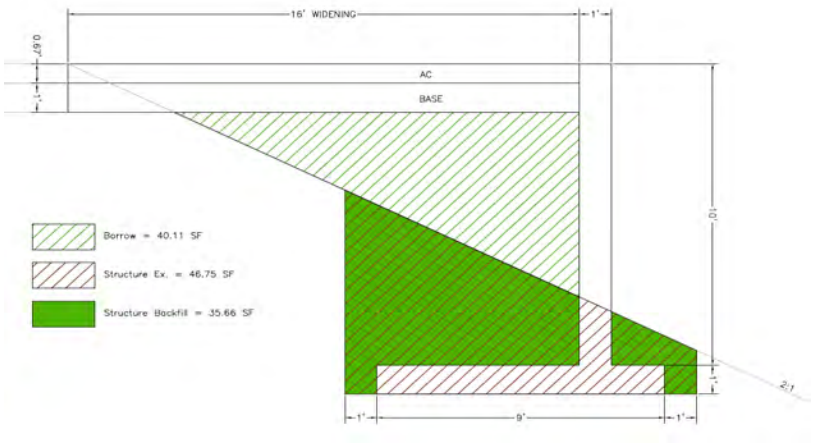
NOTE NO. 1

Roadway excavation (only needed for the contstruction of the sidewalks)
Area of Sidewaks Curbs and Gutters
3750 SF
Area of Excavation = Area of Sidewalks Curbs and Gutters + 15%
4313 SF
Depth
0.67 feet
Volume = Area * Depth
2875 CF
106 CY

RESULT NO. 1 **106**

NOTE NO. 2

Imported borrow
Area (from CAD)
40 SF
Length (wall)
760 feet
Volume = Area * Length
30484 CF
1129 CY



RESULT NO. 2 **1129**

NOTE NO. 3

Structure excavation (see Note 2)
47 SF
Length of Wall
760 feet
Volume = Area * Length
35530 CF
1316 CY

RESULT NO. 3 **1316**

NOTE NO. 4

Structure backfill (see Note 2)
36 SF
Length of Wall
760 feet
Volume = Area * Length
27102 CF
1004 CY

RESULT NO. 4 **1004**

R-14 South Fairview Avenue

NOTES AND CALCULATIONS

NOTE NO. 5

AC pavement

Roadway Widening
- Area of widening: 10100 SF
- Depth of AC: 0.67 feet
- Tonnage = Area * Depth * 145lbs/CF / 2000lbs/ton': 488 ton

Patch Curb and Gutter forms
- Cross sectional Area (1ft x 1ft Assumed): 1.00 SF
- Length of Curb and Gutter: 566 feet
- 41 ton

RESULT NO. 5 **529**

NOTE NO. 6

Aggregate base
- Area of widening: 10100 SF
- Depth: 1.00 feet
- Volume = Area * Depth: 10100 CF, 374 CY

RESULT NO. 6 **374**

NOTE NO. 7

Slurry seal
- Area (from CAD): 25900 SF
- Coverage rate (Caltrans): 1500 SF/ton
- Tonnage = area / coverage rate: 17 TN

RESULT NO. 7 **17**

NOTE NO. 8

Minor Concrete (Miscellaneous Construction)

Concrete Sidewalks
- Concrete Sidewalks Plan Area: 2600 SF
- Depth of Concrete: 0.33 feet
- Total Concrete = Area * Depth: 867 CF, 32 CY

Concrete Curb and Gutter Type A2-6 per Caltrans
- Volume per linear ft: 0.05903 CY/LF
- Curb and Gutter Length: 566 feet
- Total Concrete = Volume per length * length: 33 CY

RESULT NO. 8 **65**

NOTE NO. 9

Midwest guard rail - along top of wall
- Length of retaining Wall: 760 feet

RESULT NO. 9 **760**

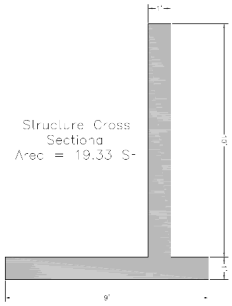
NOTE NO. 10

City of Goleta
GOLETA TRANSPORTATION IMPROVEMENT PROGRAM (GTIP)

R-14 South Fairview Avenue

NOTES AND CALCULATIONS

Structural Concrete, Retaining Wall
Cross sectional area (from CAD)
19 SF
Length feet
760 feet
Volume = Area * Length
14691 CF
544 CY

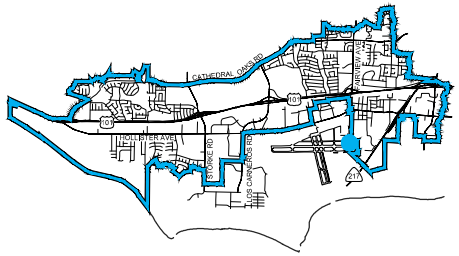


RESULT NO. 10 **544**

GOLETA TRANSPORTATION
IMPROVEMENTS PROGRAM

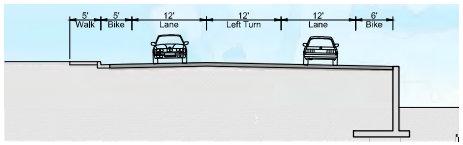
Project R-14: South Fairview Avenue Widening



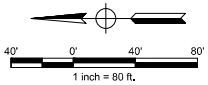


Notes

1. Widen Fairview Ave to the west to include a sidewalk on the east side, a bicycle lane, one vehicle lane in each direction, and a center turning lane. See cross section A-A.



Cross Section A-A



MNS
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103
805-692-6921 | www.mnsengineers.com

C:\Box\Projects\CIGOL Goleta\CIGOL 240089 GTIP-DIF 2025\5 Eng_CAD_Exhibits\Project R-14.dwg
Wed 14 Jan 26 10:56:42 AM