

APPENDIX B - FEASIBILITY AND DESIGN CONSIDERATIONS

FEASIBILITY CONSIDERATIONS

#	Improvement	Feasibility and Design Considerations
<i>Roadway and Intersection Improvements</i>		
R1	Gray Whale Cove Turn and Acceleration Lanes	Improvement is feasible. Provide adequate storage length for southbound (SB) lane based on expected queuing to minimize the potential for queue spill back from the left-turn lane and rear end collision. The beach access crosswalk should be placed at a location that would accommodate the southbound storage lane. Southbound merge lane is feasible
R2	SR-1 Side-Street Stop Signs	Feasible as stated
R3	SR-1 Paved Shoulder and Curb Phase A	While technically feasible, some of the segments of Highway 1 have hills on both sides of the roadway, which can make providing paved shoulders expensive along Highway 1 through the Midcoast area and Half Moon Bay.
R4	California Avenue Signal	This intersection may require careful design considerations because of the Wienke Way leg that makes it a five legged intersection. Striping enhancements may be necessary to create safe pedestrian crossing opportunities at the Highway 1/California Avenue intersection
R5	Cypress Avenue Signal	Feasible as stated
R6	Main Street (South) Signal	Feasible as stated
R7	Montara Lighthouse Median and Left Turn Bay	Feasible as stated
R8	Rocket Farms Access Consolidation	Feasible as stated
R9	Widening of Highway 1 at Ruisseau Francois Avenue	The existing bike path to the east of Highway 1 north of Ruisseau Francois Avenue and west of Highway 1 south of Ruisseau Francois may need to be moved based on the widening.

#	Improvement	Feasibility and Design Considerations
R10	Terrace Avenue/Grand Boulevard Access Consolidation and Signalization	Feasible as stated
R11	Widening and striping of approach at Spindrift Way	Additional right of way will be needed north of Spindrift to allow for the widening
R12	Kehoe Avenue Signal	Feasible as stated
R13	Widening and striping of approach at Grandview Boulevard	Additional right of way will be needed either north or south of Grandview Boulevard to allow for the widening
R14	Signage to allow only right turns from Filbert Street and Seymour Street	Feasible as stated
R15	Widening of Highway 1 to four lanes between Kelly Avenue and Main Street (South)	Feasible as stated
R16	SR-92/SR-35 Roundabout	Feasible as stated
R17	Main Street Traffic Calming	Feasible with good traffic engineering design and appropriate traffic calming device installations
R18	Carlos Street Traffic Calming	Feasible with good traffic engineering design and appropriate traffic calming device installations
R19	SR-92 Left Turn Lanes	Feasible. The left-turn pockets should have adequate storage lengths to minimize their impact on traffic operation along SR-92
R20	SR-92 Passing/Climbing Lanes	Feasible with careful highway design considerations
R21	"Trucks Keep Right" signage on SR 92	Feasible as stated
<i>Bicycle and Pedestrian Improvements</i>		
B1	Striped Pedestrian Crossing with Beacons	Feasible. Specifically, the Rapid Rectangular Flashing Beacon technology can be installed to effectively warn motorists for pedestrian safety.

#	Improvement	Feasibility and Design Considerations
B2	Hwy 1 walkway	Feasible and recommended because of high pedestrian activities
B3	Coronado Street and Ave Alhambra walkway	Feasible as stated
B4	Parallel Trail adjacent to Highway 1 for the entire study area	While it is feasible to install a parallel trail along Highway 1, it is not likely to be a low cost improvement option as the trail alignment is likely to have uneven profile and will need to be engineered. Additionally, a lot of trees will need to be removed to accommodate the trail
B5	Coastal Trail throughout the entire study area	Feasible as stated
B6	Traffic Signal Updates	Feasible and cost effective.
B7	Capistrano Road Bicycle Facilities	Feasible as stated
B8	Airport Street Class III Bike Lanes	Feasible as stated
B9	SR-92 Bike Lanes	Feasible with careful highway design considerations
B10	Hwy 1 Class II Bicycle Lane	Feasible with careful highway design considerations
Transit Improvements		
T1	Bus Stop Amenities	Feasible as stated
T2	Increased Weekend Samtrans service	Feasible as stated
Parking Improvements		
P1	Montara State Beach Parking Lot Improvements	Feasible with northbound left-turn lane for access
P2	Upper Gray Whale Cove Parking Lot Improvements	Feasible as stated
P3	Wayfinding signage	Feasible and highly recommended
P4	Coastside Beach Shuttle	Feasible as stated
P5	Carlos Street On-Street Parking	Feasible as stated
P6	El Granada Diagonal Parking	Feasible as stated

APPENDIX C - COST ESTIMATE CALCULATIONS

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	Gray Whale Cove Turn and Acceleration Lanes
Project Location:	Gray Whale Cove Parking Lot

Description

Project would install a left turn bay with painted island to provide a storage area for left turn movements in and out of parking lot. The concept shown includes roadway horizontal alignment consistent with existing curves in this area and can be constructed with very little necessary earthwork. Without extending the widening through areas that require significantly more earthwork, standard Caltrans left turn deceleration lengths cannot be achieved. However, a retrofit with the shorter deceleration length shown here provides significant safety benefits over the existing condition with no left turn lane.

Project Length (ft): 370

Date of Estimate: Feb. 6, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Earthwork	4163	SF	\$2.00	\$ 8,326
2	Class 2 Aggregate Base	308	CY	\$65.00	\$ 20,044
3	Hot Mix Asphalt (Type A)	206	Ton	\$110.00	\$ 22,668
4	Restripe roadway	370	LF	\$8.00	\$ 2,960
5	Stripe high visibility (zebra) crosswalk	198	SF	\$7.00	\$ 1,386
6	Ped-activated flashing beacon installation	2	EA	\$18,400.00	\$ 36,800
7	Install pedestrian crossing warning signs	2	EA	\$250.00	\$ 500
8	Additional signs	2	EA	\$250.00	\$ 500
9	Clearing and grubbing	1	LS	\$30,000.00	\$ 30,000
10	Temporary traffic control	1	LS	\$9,300.00	\$ 9,300
11	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000
12	Surveying	1	LS	\$30,000.00	\$ 30,000
13	Mobilization	1	LS	\$ 16,800.00	\$ 16,800

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 168,000

Project Number R1

Planning Engineering (TE)	\$ 30,000	Contract Items	\$ 184,800
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 37,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 28,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 249,800
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 30,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 160,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 37,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 227,000		

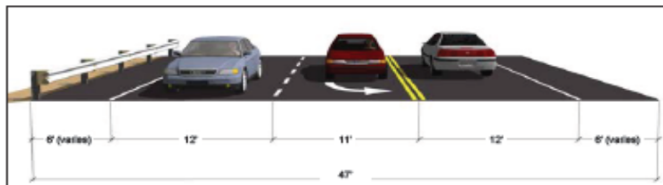
Grand Total \$ 439,800

- * Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)
- * Construction Engineering is 15% of contract items. (\$20,000 min.)
- * CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 440,000

Project R1: Gray Whale Cove Turn and Acceleration Lanes



1970 Broadway Ste 740, Oakland CA 94612

Project Number R2

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	SR-1 Side-Street Stop Signs
Project Location:	Midcoast and Half Moon Bay

Description
 Project will install stop signs to all unsigned side-street intersections along Hwy 1. These include Young Avenue in Half Moon Bay, Furtado Lane in El Granada, and 16th Street, 13th Street, 11th Street, 7th Street, Seacliff Lane, and 1st Street in Montara.

Project Length (ft): N/A

Date of Estimate: Feb. 6, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
1	Install R1-1 Sign	8	EA	\$250.00	\$ 2,000
2	Mobilization	1	LS	\$ 200.00	\$ 200

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 2,000

Project Number R2

Planning Engineering (TE)	\$ -	Contract Items	\$ 2,200
Preliminary Engineering (Design/Survey)*	\$ 15,000	OTHER COSTS (CON)	\$ -
Utility Coordination (Design)	\$ -	Contingency*	\$ 1,000
Environmental (Environmental, Real Property)	\$ -	Subtotal (Contract Items)	\$ 3,200
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ -
Real Property Labor	\$ -	Subtotal (PE)	\$ 15,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ -		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 15,000		
		Grand Total	\$ 18,200

* CONTINGENCY is 15% of contract items.

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 18,000

Project R2: SR-1 Side-Street Stop Signs

Locations Missing Stop Signs:

Half Moon Bay

SR-1 and Young Avenue

El Granada

SR-1 and Furtado Lane

Montara

SR-1 and 16th Street

SR-1 and 13th Street

SR-1 and 11th Street

SR-1 and 7th Street

SR-1 and Seacliff Ct

SR-1 and 1st Street



R1-1

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Planning Cost Estimate

Project Number **R3A**

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	SR-1 Paved Shoulder and Curb (Phase A)
Project Location:	Half Moon Bay to Montara

Description

Project will provide a consistent cross section along Highway 1 for vehicle and pedestrian safety. In addition to the 6' paved shoulder which currently exists in the developed portions of Half Moon Bay, El Granada, Moss Beach, and Montara, the project will construct a concrete curb and gutter. Phase A improvements of Project 4 will be implemented during Alternative 1, whereas Phase B and C improvements will be implemented during Alternatives 2 and 3.

Project Length (ft): Varies

Date of Estimate: Feb. 11, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Curb and gutter	2	LF/LF	\$35.00	\$ 70.00
2	Temporary traffic control	1	LF/LF	\$3.50	\$ 3.50
3	Prepare Water Pollution Control Plan	1	LF/LF	\$1.50	\$ 1.50
4	Clearing and grubbing	1	LF/LF	\$3.00	\$ 3.00
5	Surveying	1	LF/LF	\$3.00	\$ 3.00
6	Misc. Drainage Modifications	1	LF/LF	\$7.00	\$ 7.00
				Cost Per Linear Foot:	\$ 88.00
7	Half Moon Bay Seg.- Terrace Ave to Seymour St	7350	LF	\$ 88.00	\$ 646,800
8	El Granada Seg.- Capistrano Rd to Coronado St	4460	LF	\$ 88.00	\$ 392,480
9	Moss Beach Seg.- California Ave to Cypress Ave	1430	LF	\$ 88.00	\$ 125,840
10	Montara Seg.- between 7th St and 9th St	545	LF	\$ 88.00	\$ 47,960
11	Mobilization	1	LS	\$ 121,300.00	\$ 121,300

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 1,213,000

Project Number **R3A**

Planning Engineering (TE)	\$ 122,000	Contract Items	\$ 1,334,300
Preliminary Engineering (Design/Survey)*	\$ 201,000	Other Costs (CON)	\$ 201,000
Utility Coordination (Design)	\$ 121,308	Contingency*	\$ 201,000
Environmental (Environmental, Real Property)	\$ 121,308	Subtotal (Contract Items)	\$ 1,736,300
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 122,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 443,616
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 201,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 766,616		
		Grand Total	\$ 2,301,916

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

➤ TOTAL (in 2015 dollars) \$ 2,302,000

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	SR-1 Paved Shoulder and Curb (Phase B)
Project Location:	Half Moon Bay to Montara

Description

Project will provide a consistent cross section along Highway 1 for vehicle and pedestrian safety. In addition to the 6' paved shoulder which currently exists in the developed portions of Half Moon Bay, El Granada, Moss Beach, and Montara, the project will construct a concrete curb and gutter. Phase B improvements of Project 4 will be implemented during Alternative 2, whereas Phase A and C improvements were/will be implemented during Alternatives 1 and 3.

Project Length (ft): Varies

Date of Estimate: Feb. 11, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Curb and gutter	2	LF/LF	\$35.00	\$ 70.00
2	Temporary traffic control	1	LF/LF	\$3.50	\$ 3.50
3	Prepare Water Pollution Control Plan	1	LF/LF	\$1.50	\$ 1.50
4	Clearing and grubbing	1	LF/LF	\$3.00	\$ 3.00
5	Surveying	1	LF/LF	\$3.00	\$ 3.00
6	Misc. Drainage Modifications	1	LF/LF	\$7.00	\$ 7.00
				Cost Per Linear Foot:	\$ 88.00
7	Half Moon Bay Seg.- Seymour to Redondo Bch & Ter	8930	LF	\$ 88.00	\$ 785,840
8	El Granada Seg.- Coronado St to Medio Ave & Capisti	4800	LF	\$ 88.00	\$ 422,400
9	Moss Beach Seg.- Cypress Ave to Etheldore St	1720	LF	\$ 88.00	\$ 151,360
10	Montara Seg.- between 1st St and 7th St	1570	LF	\$ 88.00	\$ 138,160
11	Mobilization	1	LS	\$ 149,800.00	\$ 149,800

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 1,498,000

Project Number R3B

Planning Engineering (TE)	\$ 150,000	Contract Items	\$ 1,647,800
Preliminary Engineering (Design/Survey)*	\$ 248,000	Other Costs (CON)	\$ 248,000
Utility Coordination (Design)	\$ 149,776	Contingency*	\$ 248,000
Environmental (Environmental, Real Property)	\$ 149,776	Subtotal (Contract Items)	\$ 2,143,800
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 150,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 547,552
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 248,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 945,552	Grand Total	\$ 2,841,352

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

➤ TOTAL (in 2015 dollars) \$ 2,841,000

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Planning Cost Estimate

Project Number **R3C**

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	SR-1 Paved Shoulder and Curb (Phase C)
Project Location:	Half Moon Bay to Montara

Description Project will provide a consistent cross section along Highway 1 for vehicle and pedestrian safety. In addition to the 6' paved shoulder which currently exists in the developed portions of Half Moon Bay, El Granada, Moss Beach, and Montara, the project will construct a concrete curb and gutter. Phase C improvements of Project 4 will be implemented during Alternative 3, whereas Phase A and B improvements were previously implemented during Alternatives 1 and 2.

Project Length (ft): Varies

Date of Estimate: Feb. 11, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Curb and gutter	2	LF/LF	\$35.00	\$ 70.00
2	Temporary traffic control	1	LF/LF	\$3.50	\$ 3.50
3	Prepare Water Pollution Control Plan	1	LF/LF	\$1.50	\$ 1.50
4	Clearing and grubbing	1	LF/LF	\$3.00	\$ 3.00
5	Surveying	1	LF/LF	\$3.00	\$ 3.00
6	Misc. Drainage Modifications	1	LF/LF	\$7.00	\$ 7.00
				Cost Per Linear Foot:	\$ 88.00
7	Half Moon Bay Seg.- Redondo Bch to Miramntes Pt Rd & Frenchmar		LF	\$ 88.00	\$ -
8	El Granada Seg.- Medio Ave to Mirada Rd		LF	\$ 88.00	\$ -
9	Moss Beach Seg.- Carlos St to California Ave	3220	LF	\$ 88.00	\$ 283,360
10	Montara Seg.- between 9th St and 14th St	1345	LF	\$ 88.00	\$ 118,360
11	Mobilization	1	LS	\$ 40,200.00	\$ 40,200

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 402,000

Project Number **R3C**

Planning Engineering (TE)	\$ 41,000	Contract Items	\$ 442,200
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 89,000
Utility Coordination (Design)	\$ 40,172	Contingency*	\$ 67,000
Environmental (Environmental, Real Property)	\$ 40,172	Subtotal (Contract Items)	\$ 598,200
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 41,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 180,344
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 89,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 310,344		
		Grand Total	\$ 819,544

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

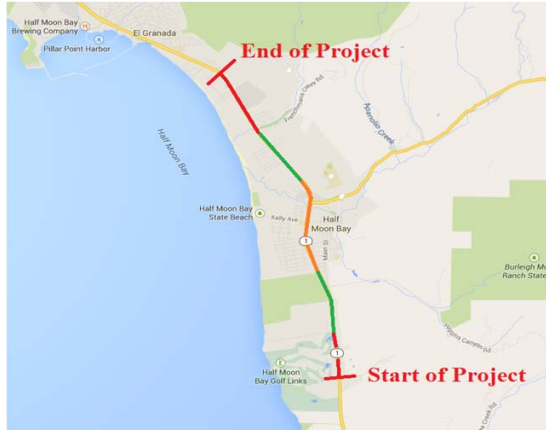
* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year 2015
Escalation Year 2015
Escalation Rate 0.0%

➤ TOTAL (in 2015 dollars) \$ 820,000

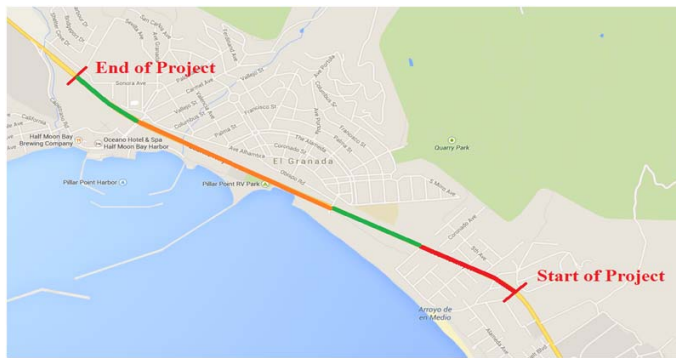
Project R3: SR-1 Paved Shoulder and Curb

Half Moon Bay Segment

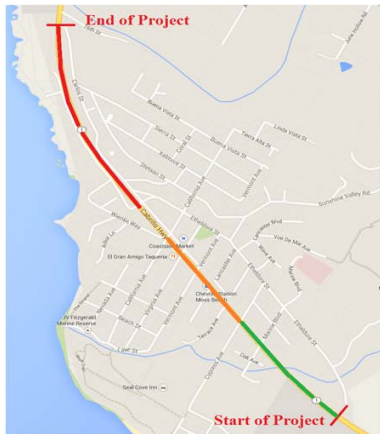


- Phase A Improvement
- Phase B Improvement
- Phase C Improvement

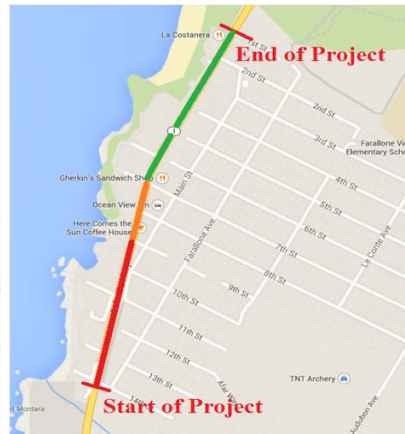
El Granada Segment



Moss Beach Segment



Montara Segment



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1970 Broadway Ste 740, Oakland CA 94612

Planning Cost Estimate

Project Number R4

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	California Avenue Signal
Project Location:	SR-1 and California Avenue, Moss Beach

Description Project will signalize the intersection of SR-1 and California Avenue in Moss Beach.

Project Length (ft): N/A

Date of Estimate: Feb. 11, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
1	Install traffic signal with safety lighting	5	EA	\$ 68,750.00	\$ 343,750
2	Removal of signs	1	LS	\$ 500.00	\$ 500
3	Removal of pavement legends	1	LS	\$ 1,000.00	\$ 1,000
4	Thermoplastic striping for crosswalks	1	LS	\$ 2,000.00	\$ 2,000
5	Restripe intersection approach	5	EA	\$ 2,500.00	\$ 12,500
6	Temporary traffic control	1	LS	\$ 9,000.00	\$ 9,000
7	Prepare Water Pollution Control Plan	1	EA	\$ 6,000.00	\$ 6,000
8	Mobilization	1	LS	\$ 37,500.00	\$ 37,500

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 375,000

Project Number R4

Planning Engineering (TE)	\$ 38,000	Contract Items	\$ 412,500
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 83,000
Utility Coordination (Design)	\$ 35,975	Contingency*	\$ 62,000
Environmental (Environmental, Real Property)	\$ 35,975	Subtotal (Contract Items)	\$ 557,500
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 38,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 171,950
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 83,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 292,950	Grand Total	\$ 767,450

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 767,000

Project R4: California Avenue Signal



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1970 Broadway Ste 740, Oakland CA 94612

Planning Cost Estimate

Project Number R5

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	Cypress Avenue Signal
Project Location:	SR-1 and Cypress Avenue, Moss Beach

Description Project will signalize the intersection of SR-1 and Cypress Avenue in Moss Beach.

Project Length (ft): N/A

Date of Estimate: Feb. 11, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
1	Install traffic signal with safety lighting	4	EA	\$ 68,750.00	\$ 275,000
2	Removal of signs	1	LS	\$ 500.00	\$ 500
3	Removal of pavement legends	1	LS	\$ 1,000.00	\$ 1,000
4	Thermoplastic striping for crosswalks	1	LS	\$ 2,000.00	\$ 2,000
5	Restripe intersection approach	4	EA	\$ 2,500.00	\$ 10,000
6	Temporary traffic control	1	LS	\$ 7,000.00	\$ 7,000
7	Prepare Water Pollution Control Plan	1	EA	\$ 6,000.00	\$ 6,000
8	Mobilization	1	LS	\$ 30,200.00	\$ 30,200

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 302,000

Project Number R5

Planning Engineering (TE)	\$ 31,000	Contract Items	\$ 332,200
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 67,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 50,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 449,200
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 31,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 160,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 67,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 258,000		
		Grand Total	\$ 640,200

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 640,000

Project R5: Cypress Avenue Signal



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1970 Broadway Ste 740, Oakland CA 94612

Planning Cost Estimate

Project Number R6

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	Main Street (S) Signal
Project Location:	SR-1 and Main Street (S), Half Moon Bay

Description Project will signalize the intersection of SR-1 and Main Street (S) in Half Moon Bay.

Project Length (ft): N/A

Date of Estimate: Feb. 11, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
1	Install traffic signal with safety lighting	3	EA	\$ 68,750.00	\$ 206,250
2	Removal of signs	1	LS	\$ 500.00	\$ 500
3	Removal of pavement legends	1	LS	\$ 1,000.00	\$ 1,000
4	Thermoplastic striping for crosswalks	1	LS	\$ 2,000.00	\$ 2,000
5	Restripe intersection approach	3	EA	\$ 2,500.00	\$ 7,500
6	Temporary traffic control	1	LS	\$ 5,000.00	\$ 5,000
7	Prepare Water Pollution Control Plan	1	EA	\$6,000.00	\$ 6,000
8	Mobilization	1	LS	\$ 22,800.00	\$ 22,800

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 228,000

Project Number R6

Planning Engineering (TE)	\$ 30,000	Contract Items	\$ 250,800
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 51,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 38,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 339,800
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 30,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 160,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 51,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 241,000	Grand Total	\$ 529,800

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 530,000

Project R6: Main Street (S) Signal



- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name: Montara Lighthouse Median and Left Turn Bay
Project Location: SR-1 and between Carlos Street and Lighthouse Driveway

Description

Project would install a median with a northbound left turn bay into the lighthouse driveway. This median would also provide a southbound left turn bay at Carlos Street, complementing the left turn restriction out of Carlos Street proposed in Alternative 1.

Project Length (ft): 175

Date of Estimate: Feb. 6, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Remove existing striping	1	LS	\$1,000.00	\$ 1,000
2	Demolish existing asphalt	700	SF	\$3.00	\$ 2,100
3	Construct concrete median	350	LF	\$70.00	\$ 24,500
4	Striping turn bays	150	LF	\$3.00	\$ 450
5	Stripe left turn arrow	2	EA	\$200.00	\$ 400
6	Install new signage	1	LS	\$2,000.00	\$ 2,000
7	Mobilization	1	LS	\$ 3,000.00	\$ 3,000

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 30,000

Project Number R7

Planning Engineering (TE)	\$ 30,000	Contract Items	\$ 33,000
Preliminary Engineering (Design/Survey)*	\$ 17,000	Other Costs (CON)	\$ 20,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 10,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 63,000
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 30,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 77,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 20,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 127,000		

Grand Total \$ 170,000

Current Year 2015

Escalation Year 2015

Escalation Rate 0.0%

> TOTAL (in 2015 dollars) \$ 170,000

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Project R7: Montara Lighthouse Median and Left Turn Bay



- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name: Rocket Farms Access Consolidation
Project Location: East of SR-1 from Young Avenue to Roosevelt Boulevard

Description

This project would consolidate the current parallel, informal, gravel driveway system into a more defined system. Specifically, a service road would be constructed (roughly in the current footprint of unpaved Alto Avenue), beginning at the driveway south of Young Avenue and continuing northward to Mirada Road. This is larger in scope than the minimal alternative, which only consolidates access adjacent to Rocket Farms. This expanded alternative is expected to cost significantly more, but offers additional benefit in consolidating more driveways along SR-1. This project would serve to minimize pedestrian conflicts and provide an opportunity to enhance pedestrian facilities, such as leave room for lighting and landscaping. While this project could even be implemented at the same time as the City of Half Moon Bay proposed trail on the east side of the highway, this trail or its related amenities are not included in this cost estimate.

Project Length (ft): 3530

Date of Estimate: Feb. 6, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Earthwork	84720	SF	\$2.00	\$ 169,440
2	Class 2 Aggregate Base	6276	CY	\$65.00	\$ 407,911
3	Hot Mix Asphalt (Type A)	4194	Ton	\$110.00	\$ 461,300
4	Striping	10590	LF	\$3.00	\$ 31,770
5	Clearing and grubbing	84720	SF	\$1.00	\$ 84,720
6	Demolish existing asphalt at dwys to be removed	1750	SF	\$3.00	\$ 5,250
7	Landscape gravel areas at dwys to be removed	10710	SF	\$7.00	\$ 74,970
8	Misc. drainage modifications	1	LS	\$247,100.00	\$ 247,100
9	Temporary traffic control	1	LS	\$61,800.00	\$ 61,800
10	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000
11	Surveying	1	LS	\$30,000.00	\$ 30,000
12	Mobilization	1	LS	\$ 158,000.00	\$ 158,000

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 1,580,000

Project Number R8

Planning Engineering (TE)	\$ 158,000	Contract Items	\$ 1,738,000
Preliminary Engineering (Design/Survey)*	\$ 261,000	Other Costs (CON)	\$ 261,000
Utility Coordination (Design)	\$ 123,536	Contingency*	\$ 261,000
Environmental (Environmental, Real Property)	\$ 123,536	Subtotal (Contract Items)	\$ 2,260,000
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 158,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 508,072
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 261,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 927,072		
		Grand Total	\$ 2,926,072

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

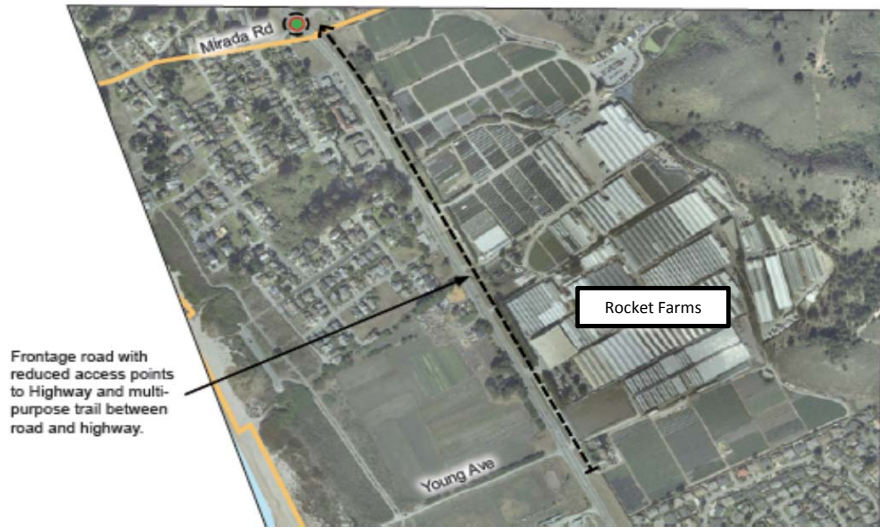
* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 2,926,000

Project R8: Rocket Farms Access Consolidation



- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name: SR-1 Widening in North Half Moon Bay
Project Location: SR-1 from Venice Boulevard to Young Avenue

R9

Description

Project will widen Highway 1 from two to four lanes between Venice Boulevard and Young Avenue. The northbound 4 lane section starts past Frenchman's Creek Road and tapers back to one lane just south of Young Avenue. The southbound widening starts south of Young Avenue and continues until it becomes a drop lane at Venice Boulevard. The last 250 feet of the existing bike path will have to be relocated to the west. The widening is primarily to the east side of the existing roadway in order to avoid conflicts with the existing bike path.

Project Length (ft): 2050

Date of Estimate: Feb. 4, 2016

Revision No.
Revision Date
Revised by

Prepared by: C. Shew

No.	Description	Quantity	Units	Unit Cost	Total
1	Demolish existing bike path	2000	SF	\$5.00	\$ 10,000
2	Clearing and grubbing	36600	SF	\$3.00	\$ 109,800
3	Earthwork	36600	SF	\$6.00	\$ 219,600
4	Class 2 Aggregate Base	2711	CY	\$65.00	\$ 176,222
5	Hot Mix Asphalt (Type A)	1510	Ton	\$110.00	\$ 166,073
6	Restripe roadway	2050	LF	\$12.00	\$ 24,600
7	Reconstruct 8' multi-use path	250	LF	\$75.00	\$ 18,750
8	Install truncated domes	2	EA	\$1,000.00	\$ 2,000
9	New signage	1	LS	\$2,000.00	\$ 2,000
10	Relocate signs	1	LS	\$10,000.00	\$ 10,000
11	Temporary traffic control	1	LS	\$36,500.00	\$ 36,500
12	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000
13	Misc. Drainage Modifications	1	LS	\$116,331.71	\$ 116,332
14	Modify signalized intersection	1	EA	\$300,000.00	\$ 300,000
15	Modify unsignalized intersection	1	EA	\$100,000.00	\$ 100,000
16	Mobilization	1	LS	\$ 129,787.64	\$ 129,788

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 1,297,876

Project Number 38

Planning Engineering (TE)	\$ 130,000	Contract Items	\$ 1,427,664
Preliminary Engineering (Design/Survey)*	\$ 215,000	Other Costs (CON)	\$ 215,000
Utility Coordination (Design)	\$ 89,788	Contingency*	\$ 357,000
Environmental (Environmental, Real Property)	\$ 152,639	Subtotal (Contract Items)	\$ 1,999,664
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 130,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 457,427
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 215,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 802,427		
		Grand Total	\$ 2,587,091

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 25% of contract items. (\$10,000 min.)

Current Year 2015
 Escalation Year 2015
 Escalation Rate 0.0%

➤ TOTAL (in 2015 dollars) \$ 2,587,000

Project R9: SR-1 Widening in North Half Moon Bay



- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name: Terrace Avenue/Grand Boulevard Access Consolidation and Signalization
Project Location: SR-1 from Terrace Avenue to Grand Boulevard

Description

This project would consolidate access to SR-1 in the vicinity of Terrace Avenue and Grand Boulevard. Specifically, the intersection of SR-1 and Terrace Avenue will be signalized, and the existing frontage road extended along the east side of SR-1 to Grand Boulevard. This frontage road will provide the sole access to Grand Boulevard. Traffic from Grand Boulevard would still be able to turn right onto SR-1, but would have to use the frontage road to the new Terrace Avenue signal to turn left onto the highway. The existing bike path would need to be realigned to construct the frontage road. While SR-1 will ultimately be widened to 4 lanes, this project does not assume this improvement.

Project Length (ft): 700

Date of Estimate: Feb. 6, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
Signalization					
1	Install traffic signal with safety lighting	4	EA	\$ 68,750.00	\$ 275,000
2	Thermoplastic striping for crosswalks	1	LS	\$ 2,000.00	\$ 2,000
3	Restriping SR-1	700	LF	\$ 8.00	\$ 5,600
Extend Frontage Road					
4	Clearing and grubbing	13200	SF	\$1.00	\$ 13,200
5	Remove existing pavement	1700	SF	\$3.00	\$ 5,100
6	Earthwork	13200	SF	\$2.00	\$ 26,400
7	Class 2 Aggregate Base	978	CY	\$65.00	\$ 63,556
8	Hot Mix Asphalt (Type A)	653	Ton	\$110.00	\$ 71,874
9	Striping new frontage road	1650	LF	\$3.00	\$ 4,950
10	Misc. drainage modifications	1	LS	\$37,000.00	\$ 37,000
11	Retaining wall	250	LF	\$200.00	\$ 50,000
Relocate Bike Trail					
12	Remove existing pavement	5760	SF	\$3.00	\$ 17,280
13	Clearing and grubbing	5600	SF	\$1.00	\$ 5,600
14	Earthwork	5600	SF	\$2.00	\$ 11,200
15	Class 2 Aggregate Base	207	CY	\$65.00	\$ 13,481
16	Hot Mix Asphalt (Type A)	139	Ton	\$110.00	\$ 15,246
17	Striping	700	LF	\$3.00	\$ 2,100
18	Temporary traffic control	1	LS	\$26,600.00	\$ 26,600
19	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000
20	Mobilization	1	LS	\$ 65,200.00	\$ 65,200

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 652,000

Project Number R10

Planning Engineering (TE)	\$ 66,000	Contract Items	\$ 171,200
Preliminary Engineering (Design/Survey)*	\$ 108,000	Other Costs (CON)	\$ 108,000
Utility Coordination (Design)	\$ 81,519	Contingency*	\$ 108,000
Environmental (Environmental, Real Property)	\$ 81,519	Subtotal (Contract Items)	\$ 933,200
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 66,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 271,037
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 108,000		

Environmental Monitoring and Mitigation Fees	\$ -
SUBTOTAL of OTHER COSTS (ALL)	\$ 445,037

Grand Total	\$ 1,270,237
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* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

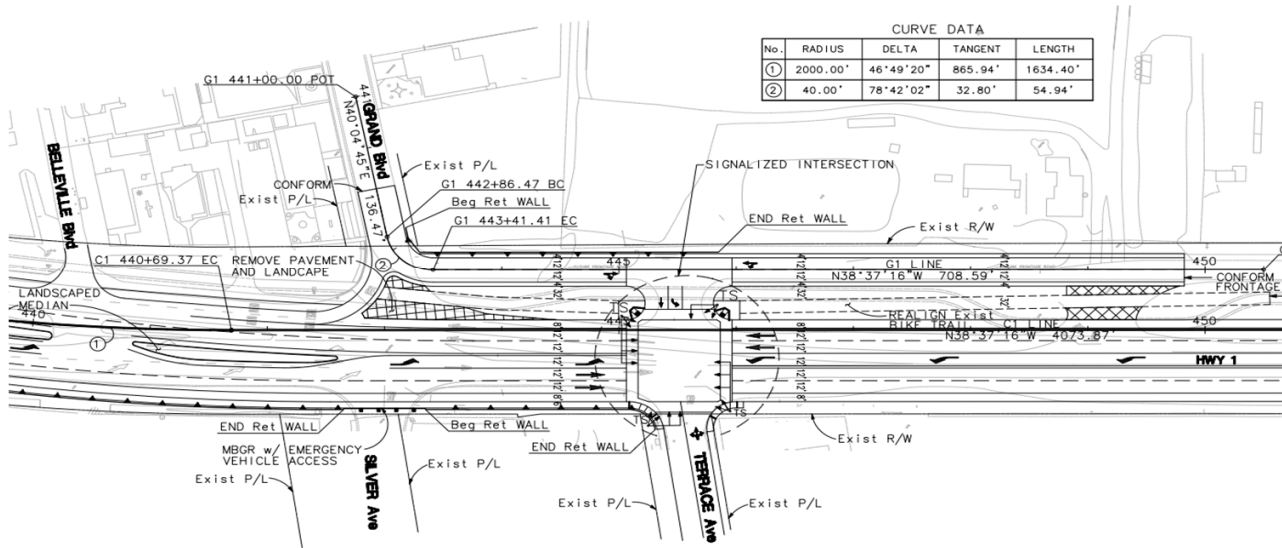
* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars)	\$ 1,270,000
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Project R10: Terrace Avenue/Grand Boulevard Access Consolidation and Signalization



DKS Associates

1970 Broadway Ste 740, Oakland CA 94612

Planning Cost Estimate

Project Number R11

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	Spindrift Way Separate Turn Lanes
Project Location:	Spindrift Way and SR-1

Description

Project would restripe the approach of Spindrift Way at SR-1 to provide separate right and left turn lanes. 11-ft lanes could be achieved with the existing pavement by prohibiting parking for an 85-ft stretch on the south side of the roadway.

Project Length (ft): 150

Date of Estimate: Jan. 29, 2016

Prepared by: C. Shew

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Restripe roadway	150	LF	\$8.00	\$ 1,200
2	Paint south curb red	85	LF	\$3.00	\$ 255
3	Parking prohibition signs	1	LS	\$500.00	\$ 500
4	Temporary traffic control	1	LS	\$200.00	\$ 200
5	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000
6	Mobilization	1	LS	\$ 800.00	\$ 800

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 8,000

Project Number R11

Planning Engineering (TE)	\$ 10,000	Contract Items	\$ 8,800
Preliminary Engineering (Design/Survey)*	\$ 20,000	Other Costs (CON)	\$ 20,000
Utility Coordination (Design)	\$ -	Contingency*	\$ 10,000
Environmental (Environmental, Real Property)	\$ 10,000	Subtotal (Contract Items)	\$ 38,800
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 10,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 30,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 20,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 60,000		
		Grand Total	\$ 78,800

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

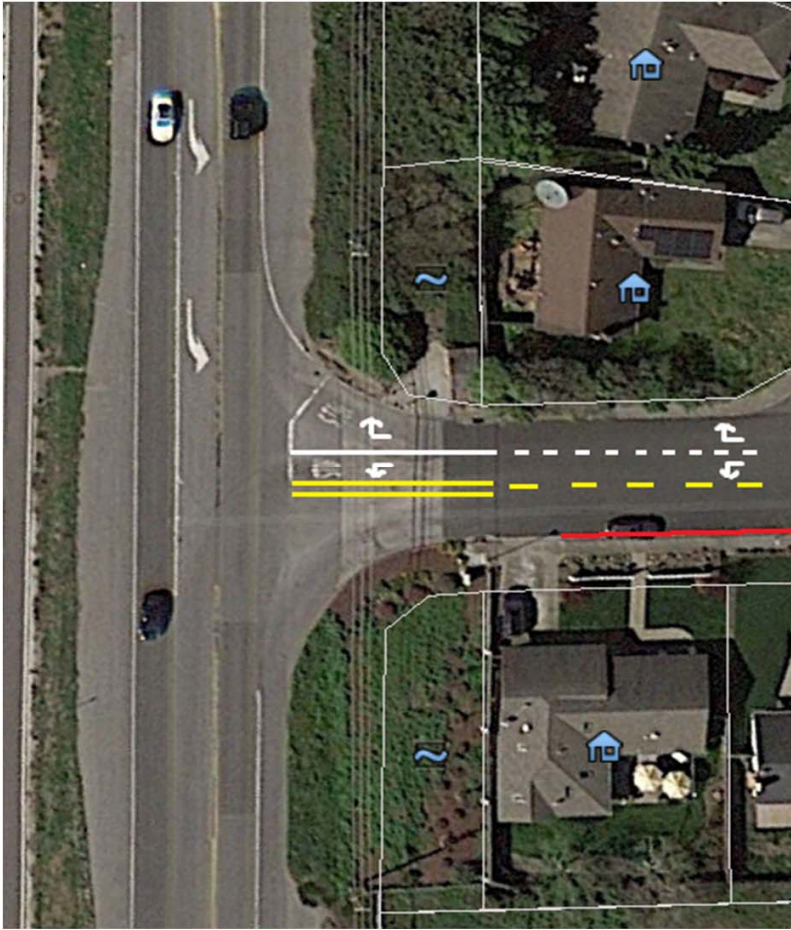
* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

➤ TOTAL (in 2015 dollars) \$ 79,000

Project R11: Spindrift Way Separate Turn Lanes



DKS Associates

1970 Broadway Ste 740, Oakland CA 94612

Planning Cost Estimate

Project Number R12

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	Kehoe Avenue Signal
Project Location:	SR-1 and Kehoe Avenue, Half Moon Bay

Description Project will signalize the intersection of SR-1 and Kehoe Avenue in Half Moon Bay.

Project Length (ft): N/A

Date of Estimate: Feb. 11, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
1	Install traffic signal with safety lighting	4	EA	\$ 68,750.00	\$ 275,000
2	Removal of signs	1	LS	\$ 500.00	\$ 500
3	Removal of pavement legends	1	LS	\$ 1,000.00	\$ 1,000
4	Thermoplastic striping for crosswalks	1	LS	\$ 2,000.00	\$ 2,000
5	Restripe intersection approach	4	EA	\$ 2,500.00	\$ 10,000
6	Temporary traffic control	1	LS	\$ 7,000.00	\$ 7,000
7	Prepare Water Pollution Control Plan	1	EA	\$ 6,000.00	\$ 6,000
8	Mobilization	1	LS	\$ 30,200.00	\$ 30,200

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 302,000

Project Number 12

Planning Engineering (TE)	\$ 31,000	Contract Items	\$ 332,200
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 67,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 50,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 449,200
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 31,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 160,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 67,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 258,000	Grand Total	\$ 640,200

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 640,000

Project 12: Kehoe Avenue Signal



- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	Grandview Blvd Separate Turn Lanes
Project Location:	Grandview Blvd and SR-1

Description Project would widen and restripe the approach of Grandview Blvd at SR-1 to provide separate right and left turn lanes. Parking would continue to be prohibited for an 35-ft stretch on the south side of the roadway.

Project Length (ft): 90

Date of Estimate: Jan. 29, 2016

Prepared by: C. Shew

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Demolish existing curb and gutter	1	LS	\$1,000.00	\$ 1,000
2	Clearing and grubbing	1	LS	\$10,000.00	\$ 10,000
3	Earthwork	800	SF	\$6.00	\$ 4,800
4	Class 2 Aggregate Base	59	CY	\$65.00	\$ 3,852
5	Hot Mix Asphalt (Type A)	20	Ton	\$110.00	\$ 2,178
6	Curb and gutter	35	LF	\$35.00	\$ 1,225
7	Misc. drainage modifications	1	LS	\$5,000.00	\$ 5,000
8	Reconstruct driveway	1	LS	\$5,000.00	\$ 5,000
9	Restripe roadway	90	LF	\$8.00	\$ 720
10	Repaint south curb red	35	LF	\$3.00	\$ 105
11	Parking prohibition signs	1	LS	\$500.00	\$ 500
12	Temporary traffic control	1	LS	\$5,000.00	\$ 5,000
13	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000
14	Mobilization	1	LS	\$ 4,500.00	\$ 4,500

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 45,000

Project Number 36

Planning Engineering (TE)	\$ 30,000	Contract Items	\$ 49,500
Preliminary Engineering (Design/Survey)*	\$ 50,000	Other Costs (CON)	\$ 20,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 10,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 79,500
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 30,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 110,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 20,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 160,000		
		Grand Total	\$ 219,500

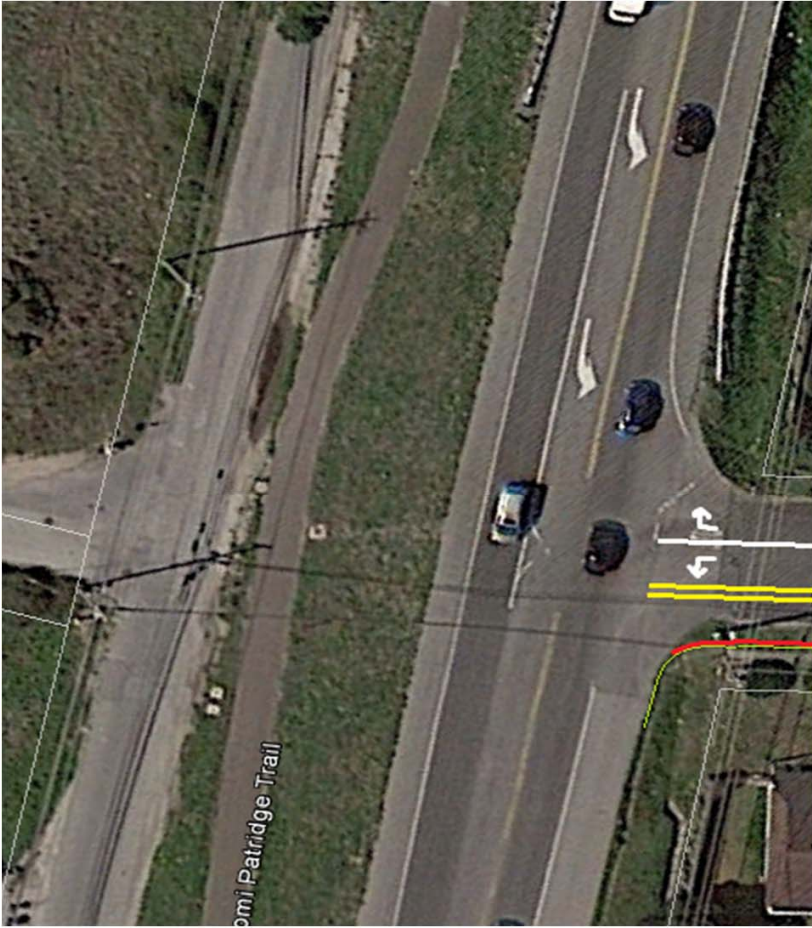
* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

> TOTAL (in 2015 dollars) \$ 220,000

Project R13: Grandview Blvd Separate Turn Lanes



DKS Associates

1970 Broadway Ste 740, Oakland CA 94612

Planning Cost Estimate

Project Number R14

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name: Right Turn Only Signs
Project Location: SR-1/Seymour Street and SR-1/Filbert Street

Description Project will install R3-5R (Right Turn Only) signs at the two Seymour Street and two Filbert Street approaches at SR-1.

Project Length (ft): N/A

Date of Estimate: Jan. 29, 2016

Revision No.
Revision Date
Revised by

Prepared by: C. Shew

No.	Description	Quantity	Units	Unit Cost	Total
1	Install R3-5R Sign	4	EA	\$250.00	\$ 1,000
2	Mobilization	1	LS	\$ 100.00	\$ 100

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 1,000

Project Number 39

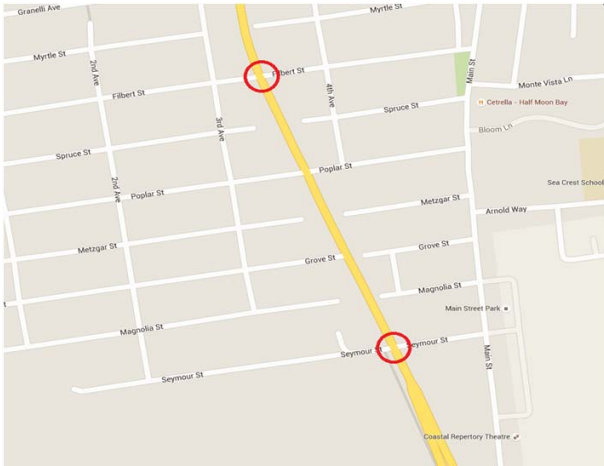
Planning Engineering (TE)	\$ -	Contract Items	\$ 1,100
Preliminary Engineering (Design/Survey)*	\$ -	OTHER COSTS (CON)	\$ -
Utility Coordination (Design)	\$ -	Contingency*	\$ 1,000
Environmental (Environmental, Real Property)	\$ -	Subtotal (Contract Items)	\$ 2,100
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ -
Real Property Labor	\$ -	Subtotal (PE)	\$ -
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ -		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ -		
		Grand Total	\$ 2,100

* CONTINGENCY is 15% of contract items.

Current Year 2016
 Escalation Year 2016
 Escalation Rate 0.0%

> TOTAL (in 2016 dollars) \$ 2,000

Project R14: Right Turn Only Signs



R3-5R

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name: SR-1 Widening in South Half Moon Bay

Project Location: SR-1 from 500' south of Kelly Avenue to 650' north of South Main Street

Description Project will widen Highway 1 from two to four lanes between Kelly Avenue and South Main Street. This cost is only to add an additional 12-foot lane and relocate/reconstruct the 8' multi-use path, as necessary. Cost to add paved shoulder and curb was costed separately in Project 4A.

Project Length (ft): 4070

Date of Estimate: Jan. 29, 2016

Prepared by: C. Shew

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Demolish existing bike path	13720	SF	\$5.00	\$ 68,600
2	Clearing and grubbing	97680	SF	\$3.00	\$ 293,040
3	Earthwork	97680	SF	\$4.00	\$ 390,720
4	Class 2 Aggregate Base	7236	CY	\$65.00	\$ 470,311
5	Hot Mix Asphalt (Type A)	4029	Ton	\$110.00	\$ 443,223
6	Restripe roadway	16280	LF	\$3.00	\$ 48,840
7	Reconstruct portions of 8' multi-use path	1715	LF	\$75.00	\$ 128,625
8	Relocate signs	1	LS	\$10,000.00	\$ 10,000
9	Temporary traffic control	1	LS	\$89,200.00	\$ 89,200
10	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000
11	Misc. Drainage Modifications	1	LS	\$291,383.87	\$ 291,384
12	Modify signalized intersection	1	EA	\$300,000.00	\$ 300,000
13	Modify unsignalized intersection	3	EA	\$100,000.00	\$ 300,000
14	Mobilization	1	LS	\$ 283,994.30	\$ 283,994

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 2,839,943

Project Number 15

Planning Engineering (TE)	\$ 284,000	Contract Items	\$ 3,123,937
Preliminary Engineering (Design/Survey)*	\$ 469,000	Other Costs (CON)	\$ 469,000
Utility Coordination (Design)	\$ 223,994	Contingency*	\$ 781,000
Environmental (Environmental, Real Property)	\$ 380,790	Subtotal (Contract Items)	\$ 4,373,937
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 284,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 1,073,785
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 469,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 1,826,785		
		Grand Total	\$ 5,731,722

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 25% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

➤ TOTAL (in 2015 dollars) \$ 5,732,000

Project 15: SR-1 Widening in South Half Moon Bay



DKS Associates

1970 Broadway Ste 740, Oakland CA 94612

Planning Cost Estimate

Project Number

R16

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	SR-92/SR-35 Roundabout
Project Location:	SR-92 and SR-35

Description
 Project would install a 130' roundabout at the intersection of SR-92 and SR-35. The costs of the medians on the roundabout approaches are assumed to be included. The roadway costs for the each approach (within 50' of the roundabout) is assumed to be included.

Project Length (ft): N/A

Date of Estimate: Feb. 9, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
1	Surveying	1	LS	\$30,000.00	\$ 30,000
2	Demolition (including existing traffic signal)	13,273	SF	\$5.00	\$ 66,366
3	Excavation	1,383	CY	\$75.00	\$ 103,740
4	Class 2 Aggregate Base	679	CY	\$65.00	\$ 44,151
5	Hot Mix Asphalt (Type A)	454	Ton	\$110.00	\$ 49,930
6	Curb & Gutter	946	LF	\$35.00	\$ 33,095
7	Striping	748	LF	\$3.00	\$ 2,245
8	Irrigation and Landscaping	9,503	SF	\$10.00	\$ 95,033
9	Pavers	1,649	SF	\$25.00	\$ 41,233
10	Relocate existing lighting fixtures	2	EA	\$2,000.00	\$ 4,000
11	Lighting fixtures	6	EA	\$8,000.00	\$ 48,000
12	Construction area Signs	1	LS	\$1,500.00	\$ 1,500
13	Removal of existing signs	1	LS	\$500.00	\$ 500
14	New signage	1	LS	\$1,500.00	\$ 1,500
15	Misc. drainage improvements	1	LS	\$98,300.00	\$ 98,300
16	Mobilization	1	LS	\$ 62,000.00	\$ 62,000

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 620,000

Project Number 16

Planning Engineering (TE)	\$ 62,000	Contract Items	\$ 682,000
Preliminary Engineering (Design/Survey)*	\$ 103,000	Other Costs (CON)	\$ 103,000
Utility Coordination (Design)	\$ 61,959	Contingency*	\$ 103,000
Environmental (Environmental, Real Property)	\$ 61,959	Subtotal (Contract Items)	\$ 888,000
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 62,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 226,919
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 103,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 391,919		
		Grand Total	\$ 1,176,919

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 1,177,000

Project 16: SR-92/SR-35 Roundabout



- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	Main Street Traffic Calming
Project Location:	Main Street in Montara

Description Project would construct curb extensions and crosswalks at the intersections of Main and 7th, Main and 8th, and Main and 9th. The project would also install a mini traffic calming circle at Main and 9th. Additionally, sidewalks (where they do not currently exist) and ADA curb ramps would be constructed on both sides of Main Street from 7th Street to 9th Street, and on the east side of the roadway from 9th Street to 10th Street.

Project Length (ft): 800

Date of Estimate: Feb. 6, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Surveying	1	LS	\$30,000.00	\$ 30,000
2	Construct new concrete sidewalk	4,344	SF	\$7.50	\$ 32,580
3	Curb & Gutter for new sidewalk	771	LF	\$35.00	\$ 26,989
4	ADA curb ramp	13	EA	\$3,000.00	\$ 39,000
5	Concrete for curb extensions	4,400	SF	\$7.50	\$ 33,000
6	Curb & Gutter for curb extensions	660	LF	\$35.00	\$ 23,100
7	Striping-crosswalks and traffic circle	527	LF	\$3.00	\$ 1,581
8	Irrigation and Landscaping	177	SF	\$10.00	\$ 1,767
9	Construction area Signs	1	LS	\$1,500.00	\$ 1,500
10	New signage for traffic calming circle	1	LS	\$1,000.00	\$ 1,000
11	Misc. drainage improvements	1	LS	\$32,100.00	\$ 32,100
12	Mobilization	1	LS	\$ 22,300.00	\$ 22,300

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 223,000

Project Number 17

Planning Engineering (TE)	\$ 30,000	Contract Items	\$ 245,300
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 50,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 37,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 332,300
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 30,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 160,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 50,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 240,000	Grand Total	\$ 522,300

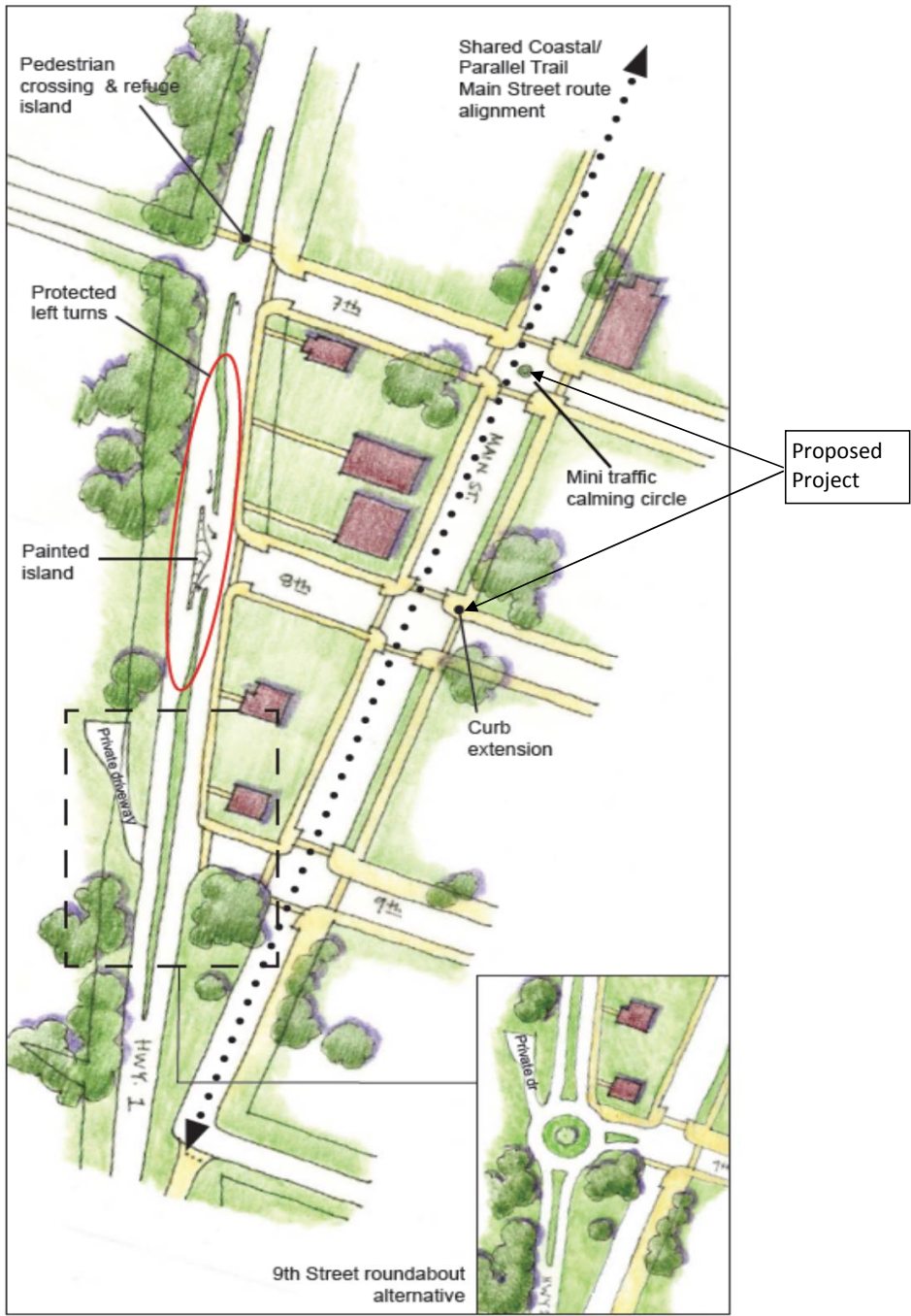
* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%
> TOTAL (in 2015 dollars)	\$ 522,000

Project 17: Main Street Traffic Calming



- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name: Carlos Street Traffic Calming

Project Location: Carlos Street from Etheldore Street to California Avenue in Moss Beach

Description

The project would stripe formal diagonal parking and parallel parking along Carlos Street, which functions as the community's main street. In addition, a continuous sidewalk would be constructed along the north side of the roadway, and crosswalks striped at the intersection of Carlos and California. Curb and gutter would be constructed along the south side of the roadway. One or both utility poles on the north side of the roadway may need to be relocated; this cost is not assumed in this estimate.

Project Length (ft): 490

Date of Estimate: Feb. 6, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
1	Surveying	1	LS	\$30,000.00	\$ 30,000
2	Construct new concrete sidewalk	840	SF	\$7.50	\$ 6,300
3	Curb & Gutter for new sidewalk	630	LF	\$35.00	\$ 22,050
4	ADA curb ramp	2	EA	\$3,000.00	\$ 6,000
5	Striping	634	LF	\$3.00	\$ 1,902
6	Construction area Signs	1	LS	\$1,500.00	\$ 1,500
7	Misc. drainage improvements	1	LS	\$7,600.00	\$ 7,600
8	Mobilization	1	LS	\$ 7,500.00	\$ 7,500

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 75,000

Project Number 18

Planning Engineering (TE)	\$ 30,000	Contract Items	\$ 82,500
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 20,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 13,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 115,500
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 30,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 160,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 20,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 210,000	Grand Total	\$ 305,500

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

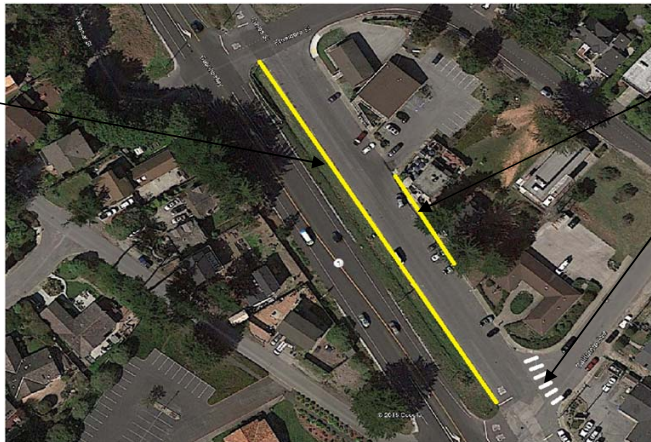
Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 306,000

Project 18: Carlos Street Traffic Calming



Stripe diagonal and parallel parking



New curb

New sidewalk and curb

New crosswalk and curb ramps

DKS Associates

1970 Broadway Ste 740, Oakland CA 94612

Planning Cost Estimate

Project Number

R19

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
 Click here if this project is a surface treatment or overlay project.

Project Name:	SR-92 Left Turn Lanes
Project Location:	Half Moon Bay

Description This project will provide left turn pockets in select locations to enhance business access and promote safe, efficient highway traffic flow.

Project Length (ft): Varies

Date of Estimate: Feb. 9, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Clearing and grubbing	11	SF/LF	\$0.50	\$ 5.50
2	Earthwork	11	SF/LF	\$2.00	\$ 22.00
3	Class 2 Aggregate Base	0.81	CY/LF	\$65.00	\$ 53
4	Hot Mix Asphalt (Type A)	0.54	Ton/LF	\$110.00	\$ 60
5	Curb & Gutter	0	LF/LF	\$35.00	\$ -
6	Striping	2	LF/LF	\$3.00	\$ 6
7	Misc. Drainage Modifications	1	LF/LF	\$29.27	\$ 29.27
				Cost Per Linear Foot:	\$ 148.13
8	Left Turn Pocket #1 Berta's Fruit Farm	250	LF	\$ 148.13	\$ 37,032
9	Left Turn Pocket #2 Lemos Farm	250	LF	\$ 148.13	\$ 37,032
10	Left Turn Pocket #3	250	LF	\$ 148.13	\$ 37,032
11	Left Turn Pocket #4	0	LF	\$ 148.13	\$ -
12	Temporary traffic control	1	LF/LF	\$5,554.86	\$ 5,554.86
13	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000.00
14	Surveying	1	LS	\$30,000.00	\$ 30,000.00
15	Mobilization	1	LS	\$ 15,300.00	\$ 15,300

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 153,000

Project Number **19**

Planning Engineering (TE)	\$ 30,000	Contract Items	\$ 168,300
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 34,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 26,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 228,300
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 30,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 160,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 34,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 224,000	Grand Total	\$ 418,300

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%
➤ TOTAL (in 2015 dollars)	\$ 418,000

DKS Associates

1970 Broadway Ste 740, Oakland CA 94612

Planning Cost Estimate

Project Number

R20

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	SR-92 Passing/Climbing Lanes
Project Location:	Between Half Moon Bay and San Mateo

Description
 This project will provide passing/climbing lanes along select segments of SR-92 to alleviate truck-induced bottlenecks. This will improve the operations and safety of the highway.

Project Length (ft): Varies

Date of Estimate: Feb. 9, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
1	Clearing and grubbing	18	SF/LF	\$0.50	\$ 9.00
2	Earthwork	18	SF/LF	\$4.00	\$ 72.00
3	Class 2 Aggregate Base	1.33	CY/LF	\$65.00	\$ 87
4	Hot Mix Asphalt (Type A)	0.89	Ton/LF	\$110.00	\$ 98
5	Curb & Gutter	0	LF/LF	\$35.00	\$ -
6	Striping	2	LF/LF	\$3.00	\$ 6
7	Misc. Drainage Modifications	1	LF/LF	\$54.34	\$ 54.34
				Cost Per Linear Foot:	\$ 245.01
8	Passing Lane #1	3000	LF	\$ 245.01	\$ 735,036
9	Passing Lane #2	0	LF	\$ 245.01	\$ -
10	Passing Lane #3	0	LF	\$ 245.01	\$ -
11	Passing Lane #4	0	LF	\$ 245.01	\$ -
12	Temporary traffic control	1	LF/LF	\$36,751.80	\$ 36,751.80
13	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000.00
14	Surveying	1	LS	\$30,000.00	\$ 30,000.00
15	Mobilization	1	LS	\$ 80,800.00	\$ 80,800

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 808,000

Project Number 32

Planning Engineering (TE)	\$ 81,000	Contract Items	\$ 888,800
Preliminary Engineering (Design/Survey)*	\$ 134,000	Other Costs (CON)	\$ 134,000
Utility Coordination (Design)	\$ 73,504	Contingency*	\$ 134,000
Environmental (Environmental, Real Property)	\$ 13,504	Subtotal (Contract Items)	\$ 1,156,800
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 81,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 281,007
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 134,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 496,007	Grand Total	\$ 1,518,807

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

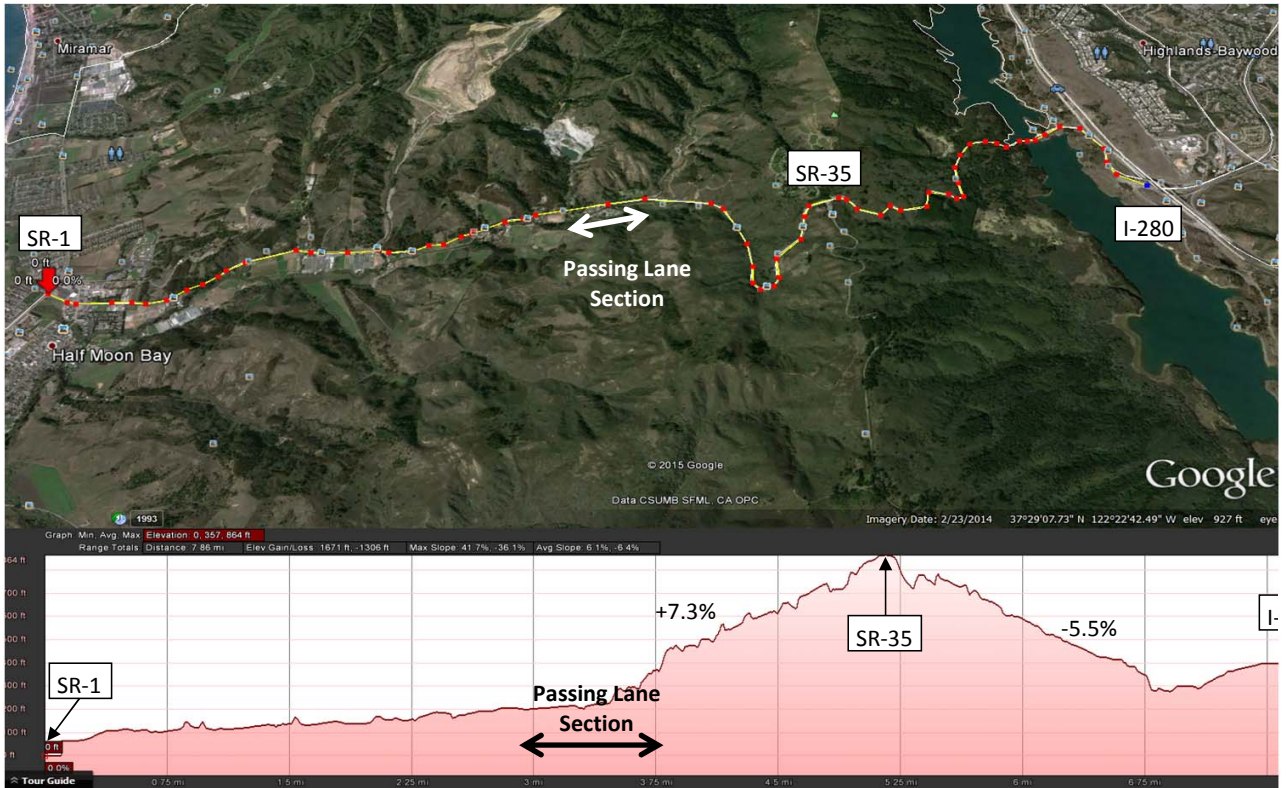
* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

➤ TOTAL (in 2015 dollars) \$ 1,519,000

Project 20: SR-92 Passing/Climbing Lanes



DKS Associates

1970 Broadway Ste 740, Oakland CA 94612

Planning Cost Estimate

Project Number

R21

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	SR-92 Truck Signs
Project Location:	Between Pilarcitos Creek and SR-35

Description Project will two additional install R4-5 ("TRUCKS USE RIGHT LANE") signs at two locations on SR-92 Eastbound:
 -Prior to the horizontal curve just east of Pilarcitos Creek
 -Before the start of the retaining wall section between Pilarcitos Creek and SR-35

Project Length (ft): N/A

Date of Estimate: Jan. 7, 2016

Revision No.
Revision Date
Revised by

Prepared by: C. Shew

No.	Description	Quantity	Units	Unit Cost	Total
1	Install R4-5 Sign	2	EA	\$250.00	\$ 500
2	Mobilization	1	LS	\$ 100.00	\$ 100

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 1,000

Project Number 21

Planning Engineering (TE)	\$ -	Contract Items	\$ 1,100
Preliminary Engineering (Design/Survey)*	\$ -	OTHER COSTS (CON)	\$ -
Utility Coordination (Design)	\$ -	Contingency*	\$ 1,000
Environmental (Environmental, Real Property)	\$ -	Subtotal (Contract Items)	\$ 2,100
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ -
Real Property Labor	\$ -	Subtotal (PE)	\$ -
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ -		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ -		
		Grand Total	\$ 2,100

* CONTINGENCY is 15% of contract items.

Current Year	2016
Escalation Year	2016
Escalation Rate	0.0%

> TOTAL (in 2016 dollars) \$ 2,000

Project 21: SR-92 Truck Signs



R4-5

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	Striped Pedestrian Crossing with Beacons
Project Location:	Various

Description

Project would install striped (high visibility) pedestrian crossings with flashing beacons to alert traffic at high demand/bus stop locations. The 17 locations include: Montara State Beach, 2nd Street, 7th Street, Moss Beach Lighthouse (16th Street), Virginia Street, California Street, Cypress Avenue, Half Moon Bay Airport, North Capistrano Road, Surfer's Beach Parking Area north of Coronado Street, Medio Avenue, Mirada Road, Kehoe Avenue, Terrace Avenue/Grand Boulevard, Quarry Road (along SR-92), Pilarcitos Creek Road (along SR-92), and SR-35 (along SR-92). The cost (per location) is shown below.

Project Length (ft): N/A

Date of Estimate: Feb. 18, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
1	Stripe high visibility (zebra) crosswalk	1	EA	\$1,500.00	\$ 1,500
2	Ped-activated flashing beacon installation	2	EA	\$18,400.00	\$ 36,800
3	Install pedestrian crossing warning signs	2	EA	\$250.00	\$ 500
4	Additional signs	2	EA	\$250.00	\$ 500
5	Traffic control	1	LS	\$5,000.00	\$ 5,000
6	Water pollution control	1	LS	\$3,000.00	\$ 3,000
7	Mobilization	1	LS	\$ 4,700.00	\$ 4,700

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 47,000

Project Number B1

Planning Engineering (TE)	\$ 12,000	Contract Items	\$ 51,700
Preliminary Engineering (Design/Survey)*	\$ 26,000	Other Costs (CON)	\$ 20,000
Utility Coordination (Design)	\$ 15,000	Contingency*	\$ 10,000
Environmental (Environmental, Real Property)	\$ 15,000	Subtotal (Contract Items)	\$ 81,700
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 12,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 56,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 20,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 88,000		
		Grand Total	\$ 149,700

* Preliminary Engineering is minimum 25% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 150,000 per location

Project B1: Striped Pedestrian Crossing with Beacons

Crossing Locations:

- Gray Whale Cove
- Montara State Beach
- 2nd Street (median refuge, no flashing beacon)
- 7th Street
- Moss Beach Lighthouse (16th Street)
- Half Moon Bay Airport
- North Capistrano Road
- Surfer's Beach Parking Area, north of Coronado Street
- Between Magellan Avenue and Medio Avenue
- Mirada Road
- Purisima Way
- Redondo Beach Road
- Quarry Road (along SR-92)
- Pilarcitos Creek Road (along SR-92)
- SR-35 (along SR-92)



- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	SR-1 Natural Pathway (Phase A)
Project Location:	Half Moon Bay to Montara

Description

Project will provide a natural pathway along Highway 1 for pedestrian safety. This project uses the same segments identified in roadway improvement projects 4A, 4B, and 4C. Phase A improvements of Project 2 will be implemented during Alternative 1, whereas Phase B and C improvements will be implemented during Alternatives 2 and 3.

Project Length (ft): Varies

Date of Estimate: Feb. 18, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
A	Construct natural pathway	1	LF/LF	\$24.00	\$ 24.00
B	Temporary traffic control	1	LF/LF	\$3.50	\$ 3.50
C	Prepare Water Pollution Control Plan	1	LF/LF	\$1.50	\$ 1.50
D	Clearing and grubbing	1	LF/LF	\$3.00	\$ 3.00
E	Surveying	1	LF/LF	\$3.00	\$ 3.00
F	Misc. Drainage Modifications	1	LF/LF	\$2.40	\$ 2.40
				Cost Per Linear Foot:	\$ 37.40
1	Half Moon Bay Seg.- Terrace Ave to Seymour St	7350	LF	\$ 37.40	\$ 274,890
2	El Granada Seg.- Capistrano Rd to Coronado St	4460	LF	\$ 37.40	\$ 166,804
3	Moss Beach Seg.- California Ave to Cypress Ave	1430	LF	\$ 37.40	\$ 53,482
4	Montara Seg.- between 7th St and 9th St	545	LF	\$ 37.40	\$ 20,383
5	Mobilization	1	LS	\$ 51,600.00	\$ 51,600

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 516,000

Project Number B2A

Planning Engineering (TE)	\$ 52,000	Contract Items	\$ 567,600
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 86,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 142,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 795,600
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 52,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 160,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 86,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 298,000	Grand Total	\$ 1,007,600

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 25% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

➤ TOTAL (in 2015 dollars) \$ 1,008,000

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	SR-1 Natural Pathway (Phase B)
Project Location:	Half Moon Bay to Montara

Description

Project will provide a natural pathway along Highway 1 for pedestrian safety. This project uses the same segments identified in roadway improvement projects 4A, 4B, and 4C. Phase B improvements of Project 2 will be implemented during Alternative 2, whereas Phase A and C improvements were/will be implemented during Alternatives 1 and 3.

Project Length (ft): Varies

Date of Estimate: Feb. 18, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
A	Construct natural pathway	1	LF/LF	\$24.00	\$ 24.00
B	Temporary traffic control	1	LF/LF	\$3.50	\$ 3.50
C	Prepare Water Pollution Control Plan	1	LF/LF	\$1.50	\$ 1.50
D	Clearing and grubbing	1	LF/LF	\$3.00	\$ 3.00
E	Surveying	1	LF/LF	\$3.00	\$ 3.00
F	Misc. Drainage Modifications	1	LF/LF	\$2.40	\$ 2.40
				Cost Per Linear Foot:	\$ 37.40
1	Half Moon Bay Seg.- Seymour to Redondo Bch & Ter	8930	LF	\$ 37.40	\$ 333,982
2	El Granada Seg.- Coronado St to Medio Ave & Capist	4800	LF	\$ 37.40	\$ 179,520
3	Moss Beach Seg.- Cypress Ave to Etheldore St	1720	LF	\$ 37.40	\$ 64,328
4	Montara Seg.- between 1st St and 7th St	1570	LF	\$ 37.40	\$ 58,718
5	Mobilization	1	LS	\$ 63,700.00	\$ 63,700

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 637,000

Project Number B2B

Planning Engineering (TE)	\$ 64,000	Contract Items	\$ 700,700
Preliminary Engineering (Design/Survey)*	\$ 106,000	Other Costs (CON)	\$ 106,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 176,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 982,700
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 64,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 166,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 106,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 336,000		
		Grand Total	\$ 1,212,700

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 25% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

➤ TOTAL (in 2015 dollars) \$ 1,213,000

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	SR-1 Natural Pathway (Phase C)
Project Location:	Half Moon Bay to Montara

Description
 Project will provide a natural pathway along Highway 1 for pedestrian safety. This project uses the same segments identified in roadway improvement projects 4A, 4B, and 4C. Phase C improvements of Project 2 will be implemented during Alternative 3, whereas Phase A and B improvements were previously implemented during Alternatives 1 and 2.

Project Length (ft): Varies

Date of Estimate: Feb. 18, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
A	Construct natural pathway	1	LF/LF	\$24.00	\$ 24.00
B	Temporary traffic control	1	LF/LF	\$3.50	\$ 3.50
C	Prepare Water Pollution Control Plan	1	LF/LF	\$1.50	\$ 1.50
D	Clearing and grubbing	1	LF/LF	\$3.00	\$ 3.00
E	Surveying	1	LF/LF	\$3.00	\$ 3.00
F	Misc. Drainage Modifications	1	LF/LF	\$2.40	\$ 2.40
				Cost Per Linear Foot:	\$ 37.40
1	Half Moon Bay Seg.- Redondo Bch to Miramntes Pt R	8820	LF	\$ 37.40	\$ 329,868
2	El Granada Seg.- Medio Ave to Mirada Rd	1240	LF	\$ 37.40	\$ 46,376
3	Moss Beach Seg.- Carlos St to California Ave	3220	LF	\$ 37.40	\$ 120,428
4	Montara Seg.- between 9th St and 14th St	1345	LF	\$ 37.40	\$ 50,303
5	Mobilization	1	LS	\$ 54,700.00	\$ 54,700

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 547,000

Project Number B2C

Planning Engineering (TE)	\$ 55,000	Contract Items	\$ 601,700
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 91,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 151,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 843,700
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 55,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 160,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 91,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 306,000	Grand Total	\$ 1,058,700

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

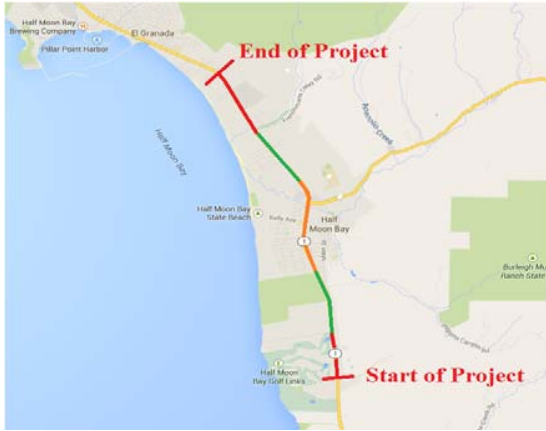
* CONTINGENCY is 25% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

➤ TOTAL (in 2015 dollars) \$ 1,059,000

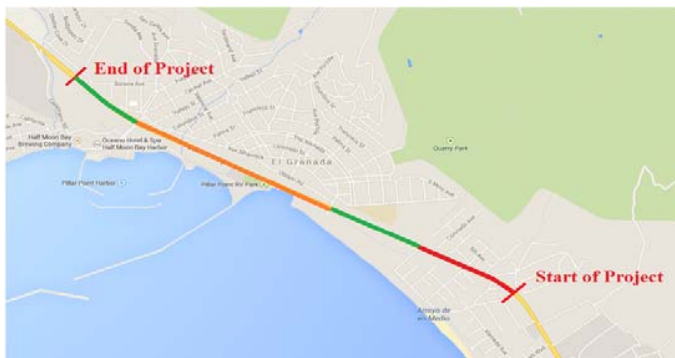
Project B2: SR-1 Sidewalk

Half Moon Bay Segment

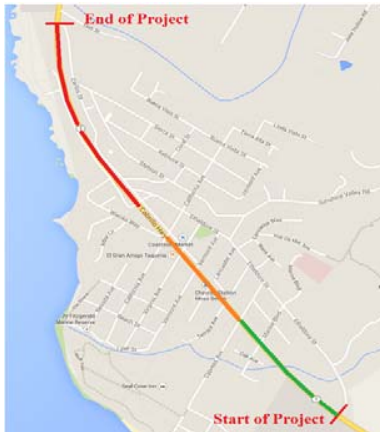


- Phase A Improvement
- Phase B Improvement
- Phase C Improvement

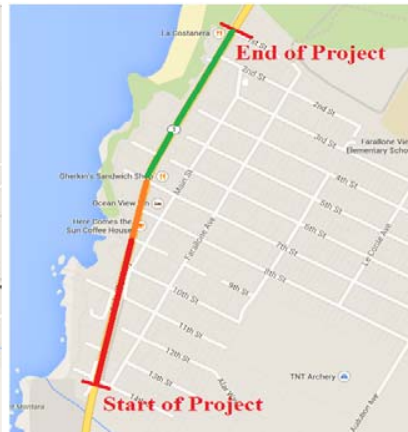
El Granada Segment



Moss Beach Segment



Montara Segment



DKS Associates

1970 Broadway Ste 740, Oakland CA 94612

Planning Cost Estimate

Project Number B3

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name: Coronado Street and Ave Alhambra Sidewalk
Project Location: Ave Alhambra/Coronado Street from SR-1 to Capistrano Road

Description Project will provide a consistent 6' concrete sidewalk along Avenue Alhambra for pedestrian safety, filling in gaps in the existing network.

Project Length (ft): 4770

Date of Estimate: Feb. 19, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
1	Clearing and grubbing	19680	SF	\$0.50	\$ 9,840.00
2	Sidewalk	19680	SF	\$7.50	\$ 147,600.00
3	New ADA curb ramps	46	EA	\$3,000.00	\$ 138,000.00
4	Temporary traffic control	1	LS	\$ 30,000.00	\$ 30,000.00
5	Prepare Water Pollution Control Plan	1	EA	\$6,000.00	\$ 6,000.00
6	Misc. Drainage Modifications	1	LS	\$31,488.00	\$ 31,488.00
7	Mobilization	1	LS	\$ 36,300.00	\$ 36,300.00

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 363,000

Project Number B3

Planning Engineering (TE)	\$ 37,000	Contract Items	\$ 399,300
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 80,000
Utility Coordination (Design)	\$ 36,293	Contingency*	\$ 60,000
Environmental (Environmental, Real Property)	\$ 36,293	Subtotal (Contract Items)	\$ 539,300
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 37,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 172,586
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 80,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 289,586	Grand Total	\$ 748,886

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

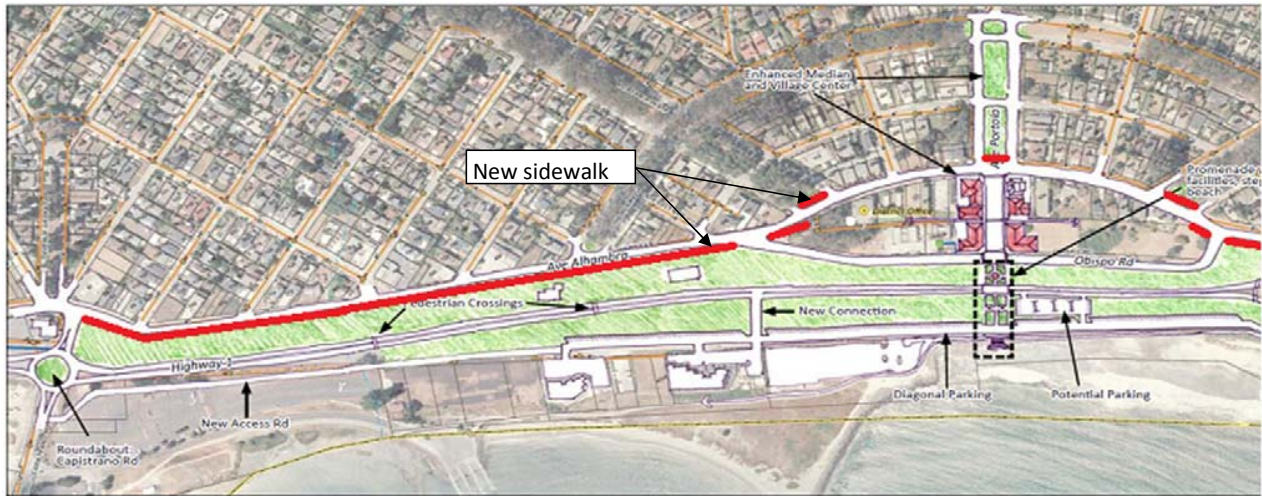
* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 749,000

Project B3: Coronado Street and Ave Alhambra Sidewalk



- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	Traffic Signal Updates
Project Location:	Half Moon Bay

Description

Project will update all traffic signals in Half Moon Bay to provide pedestrian countdown indicators on all signalized crosswalks, adjust signal timing to accommodate slower walking speeds, install bicycle detection equipment, and provide pedestrian refuge spaces on wide road crossings. The cost (per location) is shown below.

Project Length (ft): N/A

Date of Estimate: Feb. 11, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Install pedestrian countdown indicators	1	LS	\$ 5,000.00	\$ 5,000
2	Adjust signal timing	1	LS	\$ 1,500.00	\$ 1,500
3	Install bicycle detection	1	LS	\$ 10,000.00	\$ 10,000
4	Upgrades (curb ramps, median refuge, etc.)	1	LS	\$ 5,000.00	\$ 5,000
6	Temporary traffic control	1	LS	\$ 2,000.00	\$ 2,000
7	Prepare Water Pollution Control Plan	1	EA	\$6,000.00	\$ 6,000
8	Mobilization	1	LS	\$ 3,000.00	\$ 3,000

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 30,000

Project Number B6

Planning Engineering (TE)	\$ 30,000	Contract Items	\$ 33,000
Preliminary Engineering (Design/Survey)*	\$ 50,000	Other Costs (CON)	\$ 20,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 10,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 63,000
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 30,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 110,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 20,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 160,000		
		Grand Total	\$ 203,000

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 203,000 per location

Project B6: Traffic Signal Updates



- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name: Capistrano Road Bicycle Facilities

Project Location: Capistrano Road from North Terminus at SR-1 to South Terminus at SR-1

Description

Along the rural/fringe segment (between the north terminus at the Mezzaluna Restaurant parking lot), the roadway would be widened from 23' to 40' to provide 12' travel lanes with an 8' shoulder/Class II bike lane. Along the urban segment (between the Mezzaluna Restaurant parking lot and the south terminus), the roadway would be striped with sharrows and signed as a Class III bike route. The existing right of way

Project Length (ft): 3880

Date of Estimate: Feb. 19, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
Between North Terminus at SR-1 and Mezzaluna Parking Lot					
1	Clearing and grubbing	28900	SF	\$0.50	\$ 14,450
2	Earthwork	28900	SF	\$2.00	\$ 57,800
3	Class 2 Aggregate Base	2141	CY	\$65.00	\$ 139,148
4	Hot Mix Asphalt (Type A)	1431	Ton	\$110.00	\$ 157,361
5	Striping	7760	LF	\$3.00	\$ 23,280
Between Mezzaluna Parking Lot and South Terminus at SR-1					
6	Restripe roadway to provide 5' bike lanes	4360	LF	\$3.00	\$ 13,080
7	Temporary traffic control	1	LS	\$20,300.00	\$ 20,300
8	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000
9	Mobilization	1	LS	\$ 43,100.00	\$ 43,100

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 431,000

Project Number B7

Planning Engineering (TE)	\$ 44,000	Contract Items	\$ 474,100
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 95,000
Utility Coordination (Design)	\$ 40,512	Contingency*	\$ 72,000
Environmental (Environmental, Real Property)	\$ 40,512	Subtotal (Contract Items)	\$ 641,100
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 44,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 181,024
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 95,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 320,024	Grand Total	\$ 866,124

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 866,000

Project B7: Capistrano Road Bicycle Facilities



- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name: Airport Street Class III Bike Routes
Project Location: Airport Street from Cypress Avenue to Harvard Avenue

Description This project would widen Airport Street to provide 12' travel lanes, 8' shoulders/bike lanes between Cypress Avenue and Stanford Avenue, and 5' bike lanes from Stanford Avenue to Harvard Avenue.

Project Length (ft): 8710

Date of Estimate: Feb. 19, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Restripe roadway to provide 5' bike lanes	4360	LF	\$3.00	\$ 13,080
2	Temporary traffic control	1	LS	\$0.00	\$ -
3	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000
4	Mobilization	1	LS	\$ 1,900.00	\$ 1,900

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 19,000

Project Number 12

Planning Engineering (TE)	\$ 30,000	Contract Items	\$ 19,000
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 20,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 10,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 49,000
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 30,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 160,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 20,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 210,000		
		Grand Total	\$ 239,000

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 239,000

#REF!



DKS Associates

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Planning Cost Estimate

Project Number

B9

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:	SR-92 Bike Lanes
Project Location:	Between Half Moon Bay and San Mateo

Description This project will provide Class II bike lanes along segments of SR-92 to enhance bicyclist safety.

Project Length (ft): Varies

Date of Estimate: Feb. 19, 2015

Prepared by: T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Clearing and grubbing	16	SF/LF	\$0.50	\$ 8.00
2	Earthwork	16	SF/LF	\$4.00	\$ 64.00
3	Class 2 Aggregate Base	1.19	CY/LF	\$65.00	\$ 77.04
4	Hot Mix Asphalt (Type A)	0.79	Ton/LF	\$110.00	\$ 87.12
5	Striping	2	LF/LF	\$3.00	\$ 6.00
6	Misc. Drainage Modifications	1	LF/LF	\$48.43	\$ 48.43
				Cost Per Linear Foot:	\$ 290.59
7	Bike Lane Segment #1 Main St to SR-35	36325	LF	\$ 290.59	\$ 10,555,625
8	Bike Lane Segment #2	0	LF	\$ 290.59	\$ -
9	Bike Lane Segment #3	0	LF	\$ 290.59	\$ -
10	Bike Lane Segment #4	0	LF	\$ 290.59	\$ -
11	Temporary traffic control	1	LF/LF	\$527,781.26	\$ 527,781.26
12	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000.00
13	Surveying	1	LS	\$30,000.00	\$ 30,000.00
14	Mobilization	1	LS	\$ 1,111,900.00	\$ 1,111,900

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 11,119,000

Project Number B9

Planning Engineering (TE)	\$ 1,112,000	Contract Items	\$ 12,230,900
Preliminary Engineering (Design/Survey)*	\$ 1,835,000	Other Costs (CON)	\$ 1,835,000
Utility Coordination (Design)	\$ 1,055,563	Contingency*	\$ 1,835,000
Environmental (Environmental, Real Property)	\$ 1,055,563	Subtotal (Contract Items)	\$ 15,900,900
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 1,112,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 3,946,125
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 1,835,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 6,893,125		
		Grand Total	\$ 20,959,025

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

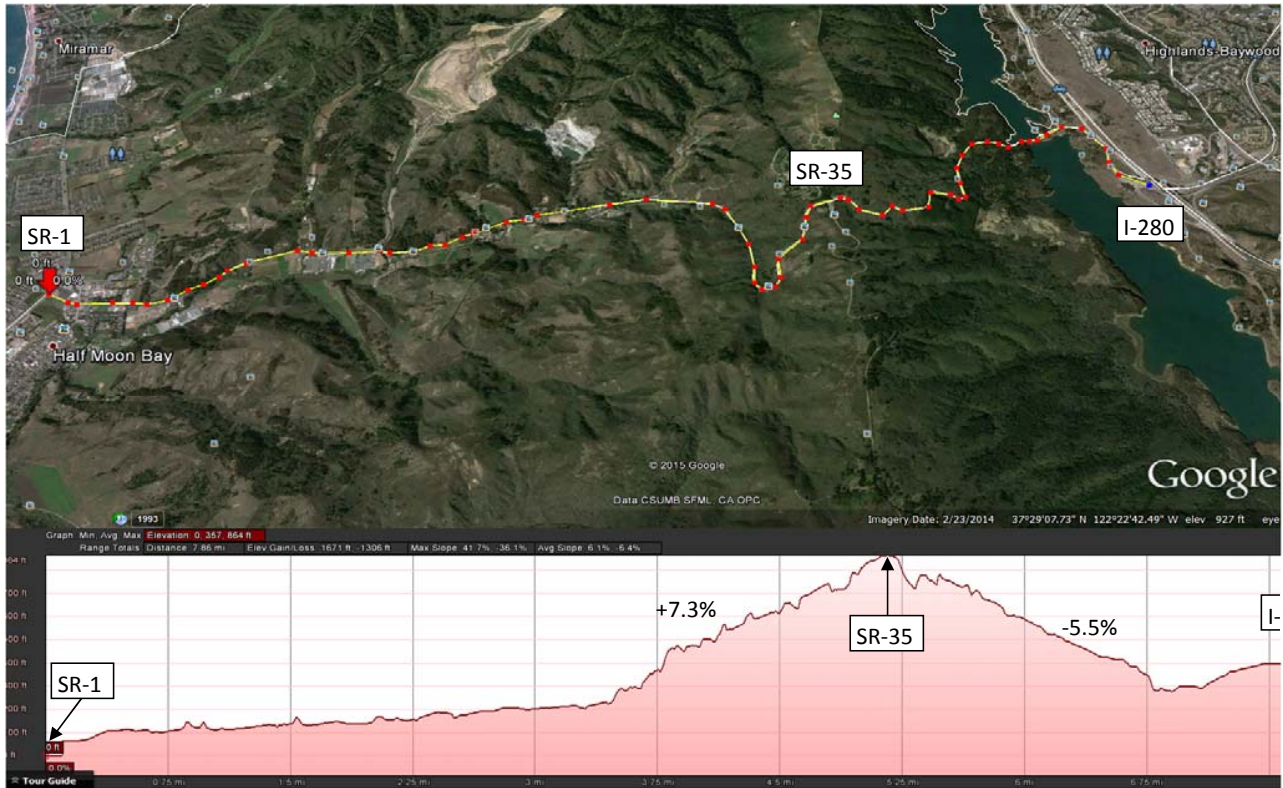
* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

➤ TOTAL (in 2015 dollars) \$ 20,959,000

Project B9: SR-92 Bike Lanes



- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name: SR-1 Bike Lanes

Project Location: SR-1 between Miramontes Point Road (Half Moon Bay) and the Montara Mountain Trailhead

Description

This project will provide Class II bike lanes along SR-1 from Miramontes Point Road (south Half Moon Bay) to the Montara Mountain Trailhead. From Half Moon Bay to Montara, the shoulder is adequate to stripe bike lanes without additional widening. North of Montara, the roadway will be widened to provide a paved shoulder and the bike lanes. Treatments will be provided at signalized intersections to widen the approach to shift the bicycle lane to the left of the right turn lane, where applicable.

Project Length (ft): Varies

Date of Estimate: Jan. 7, 2016

Prepared by: C. Shew

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
A	Clearing and grubbing	10	SF/LF	\$0.50	\$ 5.00
B	Earthwork	10	SF/LF	\$4.00	\$ 40.00
C	Class 2 Aggregate Base	0.74	CY/LF	\$65.00	\$ 48.15
D	Hot Mix Asphalt (Type A)	0.50	Ton/LF	\$110.00	\$ 54.45
E	Stripe bike lanes and pavement markings	2	LF/LF	\$3.00	\$ 6.00
F	Misc. Drainage Modifications	1	LF/LF	\$30.72	\$ 30.72
Cost Per Linear Foot (Widening and Striping):					\$ 184.32
G	Stripe bike lanes and pavement markings	2	LF/LF	\$3.00	\$ 6.00
Cost Per Linear Foot (Striping Only):					\$ 6.00
H	Clearing and grubbing	1000	SF	\$0.50	\$ 500.00
I	Earthwork	1000	SF	\$4.00	\$ 4,000.00
J	Class 2 Aggregate Base	74.07	CY	\$65.00	\$ 4,814.81
K	Hot Mix Asphalt (Type A)	49.50	Ton	\$110.00	\$ 5,445.00
L	Stripe bike lanes offset from right turn lane	200	LF	\$3.00	\$ 600.00
M	Misc. Drainage Modifications	1	LF	\$3,071.96	\$ 3,071.96
Cost Per Intersection Approach (Widening and Restriping):					\$ 18,431.78
1	Bike Lane Segment #1: Miramontes Point Rd (Half Moon Bay) to 7th Street (Montara)	52200	LF	\$ 6.00	\$ 313,200
2	Bike Lane Segment #2: 7th Street (Montara) to Montara Mountain Trailhead	4530	LF	\$ 184.32	\$ 834,960
3	Intersection Treatments (per Approach with Right Turn Lane)	12	EA	\$ 18,431.78	\$ 221,181
5	Temporary traffic control	1	LF/LF	\$68,467.04	\$ 68,467.04
6	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000.00
7	Mobilization	1	LS	\$ 144,400.00	\$ 144,400

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 1,444,000

Project Number B10

Planning Engineering (TE)	\$ 145,000	Contract Items	\$ 1,588,400
Preliminary Engineering (Design/Survey)*	\$ 239,000	Other Costs (CON)	\$ 239,000
Utility Coordination (Design)	\$ 136,934	Contingency*	\$ 239,000
Environmental (Environmental, Real Property)	\$ 136,934	Subtotal (Contract Items)	\$ 2,066,400
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 145,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 512,868

R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 239,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 896,868		
		Grand Total	\$ 2,724,268
		Current Year	2015
		Escalation Year	2015
		Escalation Rate	0.0%
		> TOTAL (in 2015 dollars)	\$ 2,724,000

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

DKS Associates

Planning Cost Estimate

1970 Broadway Ste 740, Oakland CA 94612

Project Number

P1

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name: Montara State Beach Parking Lot Improvements

Project Location: Northernmost Montara State Beach Parking Lot

Description Project would improve the existing dirt parking lot by paving with pervious concrete. This solution will improve the visitor experience, drainage characteristics of the site, and is environmentally-conscious.

Project Length (ft): N/A

Date of Estimate: Feb. 23, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
1	Earthwork	13700	SF	\$2.00	\$ 27,400
2	Geotextile fabric	13700	SF	\$1.00	\$ 13,700
3	ASTM No. 57 (drain rock) base	1015	CY	\$65.00	\$ 65,963
4	Pervious concrete	13700	SF	\$8.00	\$ 109,600
5	Concrete curb (edge restraint)	420	LF	\$7.00	\$ 2,940
6	Stripe parking lot	13700	SF	\$0.50	\$ 6,850
7	Signage	1	LS	\$2,000.00	\$ 2,000
8	Temporary traffic control	1	LS	\$11,400.00	\$ 11,400
9	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000
10	Mobilization	1	LS	\$ 24,600.00	\$ 24,600

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 246,000

Project Number P1

Planning Engineering (TE)	\$ 30,000	Contract Items	\$ 270,600
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 55,000
Utility Coordination (Design)	\$ 30,000	Contingency*	\$ 41,000
Environmental (Environmental, Real Property)	\$ 30,000	Subtotal (Contract Items)	\$ 366,600
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 30,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 160,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 55,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 245,000		
		Grand Total	\$ 556,600

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

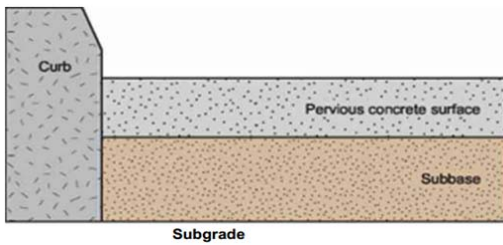
* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

➤ TOTAL (in 2015 dollars) \$ 557,000

Project P1: Montara State Beach Parking Lot Improvements



- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name: Upper Gray Whale Cove Parking Lot Improvements

Project Location: Upper Gray Whale Cove Parking Lot

Description

Project would improve the existing parking lot (which is partially paved with asphalt and partially dirt) by paving with pervious concrete. This solution will improve the pavement structure, drainage characteristics of the site, and is environmentally-conscious.

Project Length (ft): N/A

Date of Estimate: Feb. 23, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
1	Remove existing asphalt	16000	SF	\$3.00	\$ 48,000
2	Earthwork	28600	SF	\$2.00	\$ 57,200
3	Geotextile fabric	28600	SF	\$1.00	\$ 28,600
4	ASTM No. 57 (drain rock) base	2119	CY	\$65.00	\$ 137,704
5	Pervious concrete	28600	SF	\$8.00	\$ 228,800
6	Concrete curb (edge restraint)	820	LF	\$7.00	\$ 5,740
7	Stripe parking lot	28600	SF	\$0.50	\$ 14,300
8	Signage	1	LS	\$2,000.00	\$ 2,000
9	Temporary traffic control	1	LS	\$23,700.00	\$ 23,700
10	Prepare Water Pollution Control Plan	1	LS	\$6,000.00	\$ 6,000
11	Mobilization	1	LS	\$ 55,200.00	\$ 55,200

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 552,000

Project Number P2

Planning Engineering (TE)	\$ 56,000	Contract Items	\$ 607,200
Preliminary Engineering (Design/Survey)*	\$ 100,000	Other Costs (CON)	\$ 92,000
Utility Coordination (Design)	\$ 52,234	Contingency*	\$ 92,000
Environmental (Environmental, Real Property)	\$ 52,234	Subtotal (Contract Items)	\$ 791,200
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ 56,000
Real Property Labor	\$ -	Subtotal (PE)	\$ 204,469
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ 92,000		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 352,469		
		Grand Total	\$ 1,051,669

* Preliminary Engineering is minimum 15% of contract items. (See Issues to Consider)

* Construction Engineering is 15% of contract items. (\$20,000 min.)

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

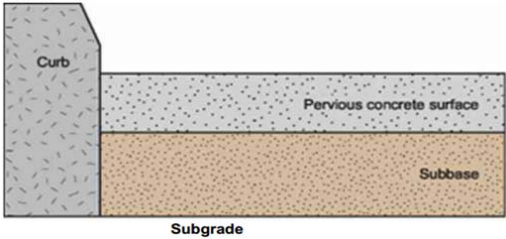
> TOTAL (in 2015 dollars) #####

Project P2: Montara State Beach Parking Lot Improvements

Gray Whale Cove Parking Lot



Project Limits



1970 Broadway Ste 740, Oakland CA 94612

Project Number

P3

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:
Project Location:

Description Project will install wayfinding signs to help drivers navigate and find parking. This budget assumes \$100,000 in Half Moon Bay, \$50,000 in Montara, and \$25,000 in both Moss Beach and El Granada to implement wayfinding programs.

Project Length (ft): N/A

Date of Estimate: Feb. 23, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
1	Install wayfinding signage	1	LS	\$200,000.00	\$ 200,000
2	Mobilization	1	LS	\$ 20,000.00	\$ 20,000

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 200,000

Project Number P3

Planning Engineering (TE)	\$ -	Contract Items	\$ 220,000
Preliminary Engineering (Design/Survey)*	\$ 50,000	OTHER COSTS (CON)	\$ -
Utility Coordination (Design)	\$ -	Contingency*	\$ 33,000
Environmental (Environmental, Real Property)	\$ -	Subtotal (Contract Items)	\$ 253,000
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ -
Real Property Labor	\$ -	Subtotal (PE)	\$ 50,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ -		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 50,000		

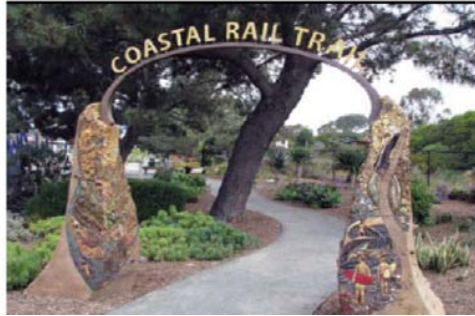
Grand Total \$ 303,000

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year 2015
 Escalation Year 2015
 Escalation Rate 0.0%

➤ TOTAL (in 2015 dollars) \$ 303,000

Project P3: Wayfinding



DKS Associates

1970 Broadway Ste 740, Oakland CA 94612

Planning Cost Estimate**Project Number****P5**

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
 Click here if this project is a surface treatment or overlay project.

Project Name: Carlos Street On-Street Parking**Project Location:** Carlos Street from Etheldore Street to California Avenue in Moss Beach

Description The project would stripe formal diagonal parking and parallel parking along Carlos Street, which functions as Moss Beach's main street. This parking project is a companion to a roadway project which would construct a continuous sidewalk along the north side of the roadway, stripe crosswalks at the intersection of Carlos and California, and construct curb and gutter along the south side of the roadway.

Project Length (ft): 490**Date of Estimate:** Feb. 23, 2015**Prepared by:** T. Krakow

Revision No.
Revision Date
Revised by

No.	Description	Quantity	Units	Unit Cost	Total
1	Stripe diagonal parking	560	LF	\$3.00	\$ 1,680
2	Stripe parallel parking	490	LF	\$3.00	\$ 1,470
3	Construction area Signs	1	LS	\$1,000.00	\$ 1,000
4	Mobilization	1	LS	\$ 400.00	\$ 400

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 4,000

Project Number P5

Planning Engineering (TE)	\$ -	Contract Items	\$ 4,400
Preliminary Engineering (Design/Survey)*	\$ 20,000	Other Costs (CON)	\$ -
Utility Coordination (Design)	\$ -	Contingency*	\$ 10,000
Environmental (Environmental, Real Property)	\$ -	Subtotal (Contract Items)	\$ 14,400
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ -
Real Property Labor	\$ -	Subtotal (PE)	\$ 20,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ -		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 20,000		
		Grand Total	\$ 34,400

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 34,000

Project P5: Carlos Street On-Street Parking



Stripe diagonal and parallel parking

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

Project Name:

Project Location:

Description

This project would stripe diagonal parking along the current alignment of SR-1. This parking project is a companion project to a roadway project which proposes to realign Highway 1, shifting the roadway toward the eastern edge of the Caltrans right-of-way, and away from the coastal erosion area. Another roadway project would also construct two roundabouts at the intersections of SR-1 and Coronado Street and SR-1 and Capistrano Road.

Project Length (ft): 4300

Date of Estimate: Feb. 23, 2015

Revision No.
Revision Date
Revised by

Prepared by: T. Krakow

No.	Description	Quantity	Units	Unit Cost	Total
Construct New SR-1 Alignment (between Coronado St Roundabout and Capistrano Rd Roundabout)					
1	Stripe diagonal parking	4000	LF	\$3.00	\$ 12,000
2	Construction area signs	1	LS	\$1,000.00	\$ 1,000
3	Mobilization	1	LS	\$ 1,300.00	\$ 1,300

CONTRACT ITEMS LESS MOBILIZATION (TO NEAREST 1,000) \$ 13,000

Project Number P6

Planning Engineering (TE)	\$ -	Contract Items	\$ 14,300
Preliminary Engineering (Design/Survey)*	\$ 30,000	Other Costs (CON)	\$ -
Utility Coordination (Design)	\$ -	Contingency*	\$ 10,000
Environmental (Environmental, Real Property)	\$ -	Subtotal (Contract Items)	\$ 24,300
R/W Engineering (Survey)	\$ -	Subtotal (Plan)	\$ -
Real Property Labor	\$ -	Subtotal (PE)	\$ 30,000
R/W Acquisition	\$ -	Subtotal (R/W)	\$ -
Construction Engineering *	\$ -		
Environmental Monitoring and Mitigation Fees	\$ -		
SUBTOTAL of OTHER COSTS (ALL)	\$ 30,000	Grand Total	\$ 54,300

* CONTINGENCY is 15% of contract items. (\$10,000 min.)

Current Year	2015
Escalation Year	2015
Escalation Rate	0.0%

> TOTAL (in 2015 dollars) \$ 54,000

Project P6: El Granada Diagonal Parking

