

INTERSECTION 148

Van Ness Avenue/Del Amo Boulevard Improvement(s)

Forecast Near-Term Conditions Intersection LOS Summary

	Weekday AM Peak Hour	Weekday Mid-Day Peak Hour	Weekday PM Peak Hour	Weekend Mid-Day Peak Hour
Without Improvement(s)	31.9 – C	<i>70.8 – E</i>	31.4 – C	20.9 – C
With Improvement(s)	24.7 – C	30.2 – C	23.8 – C	18.1 – B

Note: Delay shown in seconds per vehicle; Deficient intersection operation shown in ***bold italics***.

Recommended Improvements:

- Widen the eastbound Del Amo Boulevard approach from two left-turn lanes, one through lane, and one right-turn lane to consist of two left-turn lanes, two through lanes, and one right-turn lane.
- Implementation of the recommended improvements identified at the Van Ness Avenue/Del Amo Boulevard intersection will require City acquisition of approximately 12-feet of right-of-way on the eastbound Del Amo Boulevard approach and departure to provide adequate alignment of eastbound Del Amo Boulevard through lanes.

**CITY OF TORRANCE CITYWIDE TRAFFIC ANALYSIS MITIGATION MEASURES
PRELIMINARY COST ESTIMATES**

Location: Intersection 148: Van Ness Ave/Del Amo Blvd

Date: 2/22/2008

Mitigation: Widen the EB Del Amo Blvd approach to consist of two left-turn lanes, two through lanes and one right-turn lane.

Estimated by: D. Chanley

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% (\$2,000 Min)		\$77,000
2	Clear & Grub	\$10,000.00 / AC		\$0
3	Remove Striping	\$10.00 / LF	780	\$8,000
4	Remove Curb & Gutter	\$15.00 / LF	780	\$12,000
5	Remove Median Curb	\$30.00 / LF		\$0
6	Remove PCC Sidewalk	\$3.50 / SF	4,120	\$14,000
7	Remove Pavement	\$4.00 / SF		\$0
8	Remove Wall	\$50.00 / LF	200	\$10,000
9	Remove Channel	\$15.00 / LF		\$0
10	Remove/Replace Chain Link Fence	\$50.00 / LF	80	\$4,000
11	Remove/Replace Wrought Iron Fence	\$10.00 / LF		\$0
12	Remove/Replace Survey Monument	\$800.00 / EA	8	\$6,000
13	Reconstruct Metal Beam Guard Rail	\$70.00 / LF		\$0
14	Remove & Relocate Tree	\$3,000.00 / EA	10	\$30,000
15	Sawcut	\$1.00 / LF	780	\$780
16	Relocate Street Light	\$7,500.00 / EA	4	\$30,000
17	Relocate Traffic Signal System	\$300,000.00 / EA	0.5	\$150,000
18	Signal Phase Modification	\$10,000.00 / EA		\$0
19	Relocate Freeway Sign (2 post)	\$1,000.00 / EA		\$0
20	Relocate Sign (1 Post)	\$300.00 / EA	2	\$600
21	Reconstruct Overhead Sign	\$50,000.00 / EA		\$0
22	Relocate Call Box	\$2,000.00 / EA		\$0
23	Relocate Power Pole	\$25,000.00 / EA	2	\$50,000
24	Relocate Catch Basin	\$9,000.00 / EA		\$0
25	Relocate Fire Hydrant	\$2,500.00 / EA	3	\$7,500
26	Relocate Bus Shelter	\$2,000.00 / EA		\$0
27	Relocate Bus Bench	\$600.00 / EA		\$0
28	Relocate Monument Sign	\$5,000.00 / EA		\$0
29	Relocate Utility Boxes	\$500.00 / EA		\$0
30	Relocate Main Water Valve	\$10,000.00 / EA		\$0
31	Relocate Utility Vault	\$3,000.00 / EA	2	\$6,000
32	Adjust Manhole to Grade	\$1,000.00 / EA	2	\$2,000
33	Adjust Water Meter	\$2,000.00 / EA	6	\$12,000
34	Adjust Water Valve	\$500.00 / EA		\$0
35	Adjust Minor Above Ground Utilities	\$500.00 / EA	2	\$1,000
36	Modify Driveway	\$5,000.00 / EA	5	\$25,000
37	Earthwork	\$40.00 / CY	740	\$30,000
38	Construct PCC Pavement	\$15.00 / SF		\$0
39	Construct AC Pavement	\$14.00 / SF	3,980	\$56,000
40	Construct AC Overlay	\$3.00 / SF		\$0
41	Construct Slurry Seal	\$0.25 / SF		\$0
42	Construct Striping & Marking	\$4.00 / LF	780	\$3,000
43	Construct AC Dike	\$7.00 / LF		\$0
44	Construct Curb & Gutter	\$40.00 / LF	780	\$31,000
45	Construct Concrete Barrier	\$50.00 / LF		\$0
46	Construct Median Curb	\$20.00 / LF		\$0
47	Construct Median Concrete	\$10.00 / SF		\$0
48	Construct Median/Parkway Landscaping	\$10.00 / SF		\$0
49	Construct PCC Sidewalk	\$10.00 / SF	3,640	\$36,000
50	Construct Access Ramp	\$5,000.00 / EA	2	\$10,000
51	Construct Retaining Wall	\$50.00 / SF		\$0
52	Construct Storm Drain Main	\$100.00 / LF		\$0
53	Construct RCB	\$1,000.00 / LF		\$0
54	Construct Headwall	\$5,000.00 / EA		\$0
55	Construct Concrete V-Ditch	\$15.00 / LF		\$0
56	Construct Bridge Widening	\$500.00 / SF		\$0
57	Construct Wall	\$70.00 / LF	200	\$14,000
58	Building/Structure Demolition (1-Story Bldg)	\$10.00 / SF	100	\$1,000
59	Traffic Control (\$5,000 min)	8%	1	\$44,000
60	Drainage Items	10%	1	\$59,000
61	SWPPP Plan and Implementation	6%	1	\$39,000
	CONSTRUCTION SUBTOTAL			\$768,880
	Right-of-Way	100 / SF	2,600	\$260,000
	Right-of-Way Management	5 / %		\$13,000
	RIGHT-OF-WAY SUBTOTAL			\$273,000
	TOTAL CONSTRUCTION & RIGHT-OF-WAY COST			\$1,042,000
	Preliminary Project Development (10% of total Construction/RW cost)			\$105,000
	Design Engineering/Administration Costs (15% of total Construction/RW cost) (\$10,000 min)			\$157,000
	Construction Engineering Costs/Administration (10% of total Construction/RW cost) (\$5,000 min)			\$105,000
	Contingency (20% of Total Construction/RW cost) (\$5,000 min)			\$209,000
	TOTAL PROJECT COSTS			\$1,618,000