INTERSECTION 104

Inglewood Avenue/190th Street 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)	34.1 – C	***106.2 – F***	34.3 – C	***66.5 – E***
With Improvement(s)	27.9 – C	34.1 – C	31.1 – C	39.8 – D

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

Recommended Improvements:

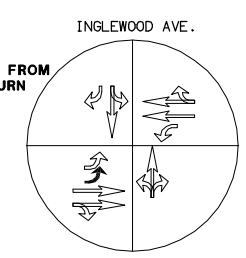
- Modify the northbound and southbound traffic signal phasing from split-phase to permitted left-turn phasing.
- Additionally, widen the eastbound 190th Street approach from one left-turn lane, two through lanes, and one right-turn lane to consist of two left-turn lanes, two through lanes, and one right-turn lane.
- Implementation of the recommended improvements identified at the Inglewood Avenue/190th Street intersection will require City acquisition of approximately 12-feet of right-of-way on the eastbound 190th Street approach and departure to provide adequate alignment of eastbound 190th Street through lanes.

N

MITIGATIONS:

NB/SB - MODIFY SIGNAL PHASING FROM SPLIT PHASE TO LEFT TURN PHASING

EB - ADD LEFT TURN



LEGEND:

EXISTING LANE

NEW IMPROVEMENT

SCALE: 1" = 100'

0 50 100 200

INTERSECTION 104
INGLEWOOD AVE/190th ST

CITYWIDE TRAFFIC ANALYSIS MITIGATION MEASURES

RBF CONSULTING

PLANNING ■ DESIGN ■ CONSTRUCTION

14725 ALTON PARKWAY
IRVINE, CALIFORNIA 92618-2027
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REV.	DATE	DESCRIPTION	BY	CHECKED

CITY OF TORRANCE
PUBLIC WORKS DEPARTMENT

DRAWN: D. ALVARADO

DESIGNED: D. ALVARADO

PROJECT ENGINEER:

APPROVED:

DATE

SCALE: AS SHOWN SHEET 1 OF 1

PLAN NO.

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CITY OF TORRANCE CITYWIDE TRAFFIC ANALYSIS MITIGATION MEASURES
PRELIMINARY COST ESTIMATES

Location: Intersection 104: Inglewood Avenue/190th Street
Mitigation: Modify the northbound and southbound traffic signal phasing to permitted left-turn phasing. Widen the eastbounds 190th Street approach to consist of two left-turn lanes, one through lane, and one right-turn lane.

Date: 3/21/2008
Estimated by: D. Alvarado

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST
1	Mobilization	10.00% ($2,000 Min)		$26,000
2	Clear & Grub	$10,000.00 / AC		$0
3	Remove Striping	$10.00 / LF	744	$7,500
4	Remove Curb & Gutter	$15.00 / LF		$0
5	Remove Median Curb	$30.00 / LF	100	$3,000
6	Remove PCC Sidewalk	$3.50 / SF		$0
7	Remove Pavement	$4.00 / SF		$0
8	Remove Wall	$50.00 / LF		$0
9	Remove Channel	$15.00 / LF		$0
10	Remove/Replace Chain Link Fence	$50.00 / LF		$0
11	Remove/Replace Wrought Iron Fence	$10.00 / LF		$0
12	Remove/Replace Survey Monument	$800.00 / EA		$0
13	Reconstruct Metal Beam Guard Rail	$70.00 / LF		$0
14	Remove & Relocate Tree	$3,000.00 / EA		$0
15	Sawcut	$1.00 / LF		$0
16	Relocate Street Light	$7,500.00 / EA		$0
17	Relocate Traffic Signal System	$300,000.00 / EA	0.50	$150,000
18	Signal Phase Modification	$10,000.00 / EA	2.0	$20,000
19	Relocate Freeway Sign (2 post)	$1,000.00 / EA		$0
20	Relocate Sign (1 Post)	$300.00 / EA		$0
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		$0
24	Relocate Catch Basin	$9,000.00 / EA		$0
25	Relocate Fire Hydrant	$2,500.00 / EA		$0
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		$0
32	Adjust Manhole to Grade	$1,000.00 / EA		$0
33	Adjust Water Meter	$2,000.00 / EA		$0
34	Adjust Water Valve	$500.00 / EA		$0
35	Adjust Minor Above Ground Utilities	$500.00 / EA		$0
36	Modify Driveway	$5,000.00 / EA		$0
37	Earthwork	$40.00 / CY		$0
38	Construct PCC Pavement	$15.00 / SF		$0
39	Construct AC Pavement	$14.00 / SF		$0
40	Construct AC Overlay	$3.00 / SF		$0
41	Construct Slurry Seal	$0.25 / SF		$0
42	Construct Striping & Marking	$4.00 / LF	744	$3,000
43	Construct AC Dike	$7.00 / LF		$0
44	Construct Curb & Gutter	$40.00 / LF		$0
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		$0
50	Construct Access Ramp	$5,000.00 / EA		$0
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		$0
58	Building/Structure Demolition (1-Story Bldg)	$10.00 / SF		$0
59	Traffic Control ($5,000 min)	8%	1	$15,000
60	Drainage Items	10%	1	$20,000
61	SWPPP Plan and Implementation	6%	1	$12,660
	CONSTRUCTION SUBTOTAL			**$257,160**
	Right-of-Way	100 / SF		$0
	Right-of-Way Management	5 / %		$0
	RIGHT-OF-WAY SUBTOTAL			**$0**
TOTAL CONSTRUCTION & RIGHT-OF-WAY COST				**$258,000**
Preliminary Project Development (10% of total Construction/RW cost)				$26,000
Design Engineering/Administration Costs (15% of total Construction/RW cost) ($10,000 min)				$39,000
Construction Engineering Costs/Administration (10% of total Construction/RW cost) ($5,000 min)				$26,000
Contingency (20% of Total Construction/RW cost) ($5,000 min)				$52,000
TOTAL PROJECT COSTS				**$401,000**