



Level of Service Computation Report  
 2030 HCM (Insignalized Method) (Future Volume Alternative)  
 Intersection #1 El Nido & San Pasqual

Average Delay (sec/veh) 11.1 Worst Case Level Of Service B (11.1)

Approach	North Bound	El Nido	South Bound	East Bound	San Pasqual	
Movement	L	T	R	L	T	R

Control	Stop Sign	Stop Sign	Uncontrolled	Uncontrolled	Uncontrolled							
Rights	Include	Include	Include	Include	Include							
Lanes	0	0	0	1	0	0	0	1	0	0	1	0

Volume Module  
 Base Vol: 0 0 0 0 0 26 18 76 0 0 347 11  
 Growth Adj: 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03  
 Initial Bst: 0 0 0 0 0 30 19 73 0 0 357 11  
 Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0  
 Cumulative: 0 0 0 0 0 1 2 8 0 0 0 0 0  
 Initial Fut: 0 0 0 0 0 21 21 86 0 0 375 13  
 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  
 Final Vol: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  
 RWF Volume: 0 0 0 0 0 21 21 86 0 0 375 13  
 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0  
 Final Vol: 0 0 0 0 0 21 21 86 0 0 375 13

Critical Gap Module  
 Critical Gap: 6.4 6.2 4.1 6.4 6.2 4.1 6.4 6.2 4.1 6.4 6.2 4.1  
 Follow-Up Time: 3.5 3.3 2.2 3.5 3.3 2.2 3.5 3.3 2.2 3.5 3.3 2.2

Capacity Module  
 Critical Vol: 500 500 382 382 382 382 382 382 382 382 382 382  
 Critical Cap: 527 527 476 476 476 476 476 476 476 476 476 476  
 Move Cap: 520 520 670 670 670 670 670 670 670 670 670 670  
 Volume/Cap: 0.95 0.95 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62

Level of Service Module  
 Queue: 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1  
 Stopped Dist: 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1  
 LOS by Move: A A A A A A A A A A A A  
 Shared Cap: 611 611 611 611 611 611 611 611 611 611 611 611  
 Shared Queue: 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1  
 Shared StpDel: 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1  
 Shared LOS: B B B B B B B B B B B B  
 Approach LOS: 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1  
 Approach IDs: B B B B B B B B B B B B

Near Term Without Project PM  
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Scenario Report  
 Near Term Without Project PM  
 Command: Near Term Without Project PM  
 Volume: Near Term PM  
 Geometry: Existing  
 Impact Fee: Default Impact Fee  
 Trip Generation: PM  
 Trip Distribution: L  
 Paths: Default Paths  
 Routes: Default Routes  
 Policies: Near Term Without Project PM  
 Configuration:

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Turning Movement Report  
 PM

Volume Type	Northbound		Southbound		Eastbound		Westbound		Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	
<b>#1 San Gabriel &amp; Del Mar</b>									
Base	102	671	65	66	879	50	39	565	178
Added	0	0	0	0	0	0	0	0	0
Removed	12	2	6	12	28	3	1	66	7
Total	114	654	59	78	857	53	40	1034	185
<b>#2 San Gabriel &amp; San Pasqual</b>									
Base	40	762	25	38	1056	29	24	280	75
Added	0	0	0	0	0	0	0	0	0
Removed	0	0	0	0	0	0	0	0	0
Total	40	762	25	38	1056	29	24	280	75
<b>#3 El Nido &amp; Del Mar</b>									
Base	26	11	27	7	12	33	22	1030	39
Added	0	0	0	0	0	0	0	0	0
Removed	3	1	2	0	1	3	3	105	1
Total	29	12	29	7	13	36	25	1135	40
<b>#4 El Nido &amp; San Pasqual</b>									
Base	0	0	0	16	0	22	19	309	0
Added	0	0	0	0	0	0	0	0	0
Removed	0	0	0	3	0	3	1	13	0
Total	0	0	0	19	0	25	20	322	0

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Intersection Volume Report  
Base Volume Alternative

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Intersection Volume Report  
Base Volume Alternative

Node Intersection	Northbound		Southbound		Eastbound		Westbound	
	L	T	L	T	L	T	L	T
1 San Gabriel &	114	654	71	78	907	51	40	1034
2 San Gabriel &	40	802	25	75	1100	32	26	284
3 El Nido & Del	29	13	29	7	13	35	25	1145
4 El Nido & San	0	0	0	19	0	25	20	321

Node Intersection	Northbound		Southbound		Eastbound		Westbound	
	L	T	L	T	L	T	L	T
1 San Gabriel &	102	631	65	66	879	53	39	865
2 San Gabriel &	40	762	25	36	1056	39	24	280
3 El Nido & Del	18	11	27	7	12	33	22	1840
4 El Nido & San	0	0	0	16	0	22	19	306

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Near Term Without Project EM

Impact Analysis Report

Level of Service

Intersection	Phase	Del./V/	Future	Change
# 1 San Gabriel & Del Mar	C	1.28 Veh	C	
# 2 San Gabriel & San Gabriel	C	xxxxx 0.887	D	+ 0.043 W/C
# 3 El Prado & Del Mar	F	4.5 2.0 0.000	F	- 0.025 W/C
# 4 El Prado & San P...	B	10.1 0.000	B	+ 0.344 O/V
# 5 El Prado & San P...	B	10.1 0.000	B	+ 0.344 O/V

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Near Term Without Project EM

Level of Service Computation Report

Intersection: San Gabriel & Del Mar

ICU (Loss as Cycle Length V) Method (Future Volume Alternative)  
 Cycle (sec) 100  
 Loss Time (sec) 10  
 Optimal Cycle 98  
 Critical Vol / Cap (X) 0.997  
 Average Delay (sec/veh) xxxxxx  
 Level of Service D

Approach	North Bound	San Gabriel	South Bound	East Bound	Del Mar	West Bound
Control						
Right						
Min Green	0	0	0	0	0	0
Lanes	1	0	1	1	1	0
Volume	99	613	63	66	853	49
Flow Adj	1.03	1.03	1.03	1.03	1.03	1.03
Initial Sat	102	631	65	66	879	50
Added Vol	0	0	0	0	0	0
Cumulative	12	23	6	12	28	1
Initial Sat	114	654	71	78	907	51
User Adj	1.00	1.00	1.00	1.00	1.00	1.00
Flow Adj	1.00	1.00	1.00	1.00	1.00	1.00
Pipe Volume	114	654	71	78	907	51
Reduced Vol	114	654	71	78	907	51
PCE Adj	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol	114	654	71	78	907	51

Saturation Flow Module

Sat. Flow	1600	1600	1600	1600	1600	1600
Adj Sat	1600	1600	1600	1600	1600	1600
Flow Sat	1600	1600	1600	1600	1600	1600
Final Sat	1600	1600	1600	1600	1600	1600

Capacity Analysis Module

Vol/Sat	0.07	0.23	0.25	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Crit Moves	0	0	0	0	0	0	0	0	0	0

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Level of Service Computation Report  
 (See also Cycle Length Method (Future Volume Alternative))  
 Intersection #2 San Gabriel & San Pasqual  
 Cycle Length: 100 Critical Vol /Cap. (X): 0.741  
 Loss Time (sec): 10 (V.R. 4 sec) Average Delay (sec/veh): XXXXXX  
 Optimal Cycle: 56 Level of Service: C  
 Street Name: North Bound South Bound East Bound West Bound  
 Approach: L T R L T R L T R L T R L T R L T R  
 Control: Permitted Permitted Permitted Permitted Permitted Permitted Permitted Permitted  
 Rights: Include Include Include Include Include Include Include Include  
 Min Green: 3 0  
 Lanes: 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 0 1 0 1 0 1 0 0 1 0  
 Volume Module:  
 Base Vol: 39 740 28 37 1025 28 23 372 73 24 75 25  
 Initial Adj: 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03  
 Initial Base: 40 763 29 26 1056 40 20 380 75 23 72 27  
 Added Vol: 0  
 Cumulative: 0 40 0 37 84 3 2 14 0 0 0 0 0 17 0 0 0 0 0 0 0 0  
 Initial Fut: 40 802 25 75 1100 32 26 394 75 25 94 27  
 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  
 PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  
 PHF Volume: 40 802 25 75 1100 32 26 394 75 25 94 27  
 Reduct Vol: 0  
 Reduct Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  
 PHF Vol: 40 802 25 75 1100 32 26 394 75 25 94 27  
 Final Vol: 40 802 25 75 1100 32 26 394 75 25 94 27  
 Saturation Flow Module  
 Sat. Lane: 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600  
 Adj. Adj.: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  
 Lanes: 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 0  
 Final Sat: 1600 3104 96 1600 3110 90 104 1191 305 1600 1246 354  
 Usability Analysis Module  
 Crit. Mov: 0 26 0 26 0 05 0 35 0 02 0 15 0 02 0 15 0 25 0 21 0 08 0 03  
 ApproachLOS: F F F F F

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Level of Service Computation Report  
 (See also Cycle Length Method (Future Volume Alternative))  
 Intersection #3 El Nido  
 Average Delay (sec/veh): 4.1 Worst Case Level of Service: F (9.2)  
 Street Name: North Bound South Bound East Bound West Bound  
 Approach: L T R L T R L T R L T R L T R L T R  
 Control: Stop Sign Stop Sign Uncontrolled Uncontrolled  
 Rights: Include Include Include Include  
 Lanes: 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0  
 Volume Module:  
 Base Vol: 35 11 26 7 12 32 21 1010 38 15 360 30  
 Initial Adj: 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03  
 Initial Base: 36 11 27 7 12 33 22 1040 39 15 351 30  
 Added Vol: 0  
 Cumulative: 3 1 2 0 1 3 3 105 1 1 65 0  
 Initial Fut: 36 12 29 7 13 36 25 1145 40 16 476 30  
 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  
 PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  
 PHF Volume: 36 12 29 7 13 36 25 1145 40 16 476 30  
 Reduct Vol: 0  
 Reduct Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  
 Final Vol: 36 12 29 7 13 36 25 1145 40 16 476 30  
 Critical Gap Module:  
 Critical GP: 7.5 6.5 6.9 7.5 6.5 6.5 4.1 XXXX XXXXX 4.1 XXXX XXXXX  
 FollowUpTim: 3.5 4.0 3.3 3.5 4.0 3.3 2.2 XXXX XXXXX 2.2 XXXX XXXXX  
 Capacity Module:  
 Conflic Vol: 1492 1734 503 1143 1749 243 487 XXXX XXXXX 1335 XXXX XXXXX  
 User Cap: 30 84 454 126 82 763 1087 XXXX XXXXX 594 XXXX XXXXX  
 Volume/Cap: 0 41.0 15.0 0.6 0.06 0.15 0.05 0.02 XXXX XXXXX 0.03 XXXX XXXXX  
 Level of Service Module:  
 Queue: XXXX XXXX XXXXX XXXXX XXXX XXXXX 0 1 XXXX XXXXX 3 1 XXXX XXXXX  
 Stopped Del: XXXX XXXX XXXXX XXXXX XXXX XXXXX 8 4 XXXX XXXXX 11.2 XXXX XXXXX  
 LOS by Move: A B  
 Movement: LT - LTR - RT - LTR - RT - LTR - RT - LTR - RT - LTR - RT - LTR - RT  
 Shared Cap: XXXX 112 XXXXX XXXXX 212 XXXXX XXXX XXXX XXXXX XXXXX XXXXX  
 Shared LOS: XXXX B XXXXX B XXXXX B XXXXX B XXXXX B  
 Shared Sat: XXXX 79.2 XXXXX XXXXX 28.0 XXXXX 6.4 XXXX XXXXX 11.2 XXXX XXXXX  
 Shared LOS: F F D A B  
 ApproachLOS: F F 28.0 XXXXX XXXXX

JAG612 - Monte Vista/Grove Hobes TIF  
 City of Pasadena  
 Near Term Without Project PM

Level of Service Computation Report

2000 HCM Unsignalized Method (Future Volume Alternatives)  
 Intersection #1: 81 80th & San Pasqual  
 Approach #1: 1 2 West Camp Level of Service: B (10.3)

Street Name: 81 80th San Pasqual  
 Movement: L T P L T R L T R L T R  
 Control: Stop Sign Stop Sign Uncontrolled Uncontrolled  
 Right-of-Way: 100' 100' 100' 100' 100' 100' 100' 100' 100' 100' 100' 100'

Volume Module: 1 Sep 1997  
 Green Vol: 0 0 0 16 0 21 18 259 0 0 86 8  
 Green Adj: 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03  
 Initial Red: 0 0 0 16 0 22 19 308 0 0 89 8  
 Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0  
 Cumulative: 0 0 0 3 0 3 1 13 0 0 14 2  
 Initial PUF: 0 0 0 19 0 25 20 323 0 0 103 10  
 Inter Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  
 Final PUF: 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03  
 Pedest Vol: 0 0 0 0 0 0 0 0 0 0 0 0  
 Final Vol: 0 0 0 19 0 25 20 323 0 0 103 10

Critical Gap Module:  
 Critical Gap: 6.4 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1  
 Follow-Up: 3.5 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2

Queue Length Module:  
 Queue Length: 108 113 113 113 113 113 113 113 113 113 113 113  
 Queue Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  
 Final Queue: 108 113 113 113 113 113 113 113 113 113 113 113

Level of Service Module:  
 Queue: 0.0 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4  
 LOS by Move: A A A A A A A A A A A A

Approach #1: 1 2  
 Shared LOS: B B  
 Approach LOS: B B

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Trip Generation Report

Forecast for AM

Zone	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	Total % Of Trips Total
1	Monte Vista	1.00	Monte Vista Gr	2.00	1.00	2	1	3	100.0
Zone J Subtotal									3
TOTAL									3

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 City of Pasadena  
 Near Term With Project AM

Scenario Report

Near Term With Project AM

Command: Near Term With Project AM  
 Volume: Near Term AM  
 Geometry: Existing  
 Impact Fee: Default Impact Fee  
 Trip Generation: AM  
 Trip Distribution: ALL  
 Paths: Default Paths  
 Routes: Default Route  
 Configuration: Near Term With Project AM



Near Term With Project AM Fri Apr 7, 2006 11:17:41  
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 Trip Distribution Report

Percent of Trips Monte Vista Grove Homes

Zone	1	2	3	4	To Gates	6	9	10	11	12	13
1	15.0	10.0	10.0	10.0	5.0	15.0	5.0	5.0	5.0	5.0	5.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

To Gates  
 14  
 Zone  
 1 5.0  
 2 0.0

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 Near Term With Project AM  
 Turning Movement Report  
 AM

Volume Type	Northbound		Southbound		Eastbound		Westbound		Total						
	Left	Thru Right	Left	Thru Right	Left	Thru Right	Left	Thru Right							
<b>#1 San Gabriel &amp; Del Mar</b>															
Base	275	1068	40	598	53	48	259	61	38	764	36	1318			
Added	0	0	0	0	0	0	0	0	0	0	0	0			
Cumula	16	28	8	16	21	0	1	51	4	3	85	5	235		
Total	291	1092	69	56	619	53	45	310	65	41	849	42	3553		
<b>#2 San Gabriel &amp; San Pasqual</b>															
Base	94	1285	20	19	744	19	20	76	19	25	346	40	2705		
Added	0	0	0	1	0	0	0	0	0	0	0	0	1		
Cumula	0	46	0	0	27	0	2	59	0	0	0	0	104		
Total	94	1331	20	20	771	19	22	86	19	25	346	40	2810		
<b>#3 El Nido &amp; Del Mar</b>															
Base	30	3	16	5	6	22	4	299	10	13	753	7	1178		
Added	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cumula	0	1	0	0	0	1	1	54	2	1	112	0	172		
Total	30	4	16	5	6	23	5	353	12	14	865	7	1350		
<b>#4 El Nido &amp; San Pasqual</b>															
Base	0	0	0	0	0	0	0	19	78	0	0	357	11	504	
Added	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cumula	0	0	0	0	0	0	0	1	2	6	0	0	18	31	
Total	0	0	0	0	0	0	0	31	21	6	0	0	376	13	534

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 City of Pasadena  
 Near Term With Project AM  
 Intersection Volume Report  
 Base Volume Alternative

Node Intersection	Northbound		Southbound		Eastbound		Westbound					
	L	T	L	T	L	T	L	T				
1 San Gabriel &	275	1068	61	40	598	53	44	259	81	38	764	16
2 San Gabriel &	94	1285	20	19	744	19	20	744	19	25	345	40
3 El Nido & Del	30	3	26	5	6	22	4	298	18	13	753	7
4 El Nido & San	0	0	0	8	0	30	19	78	0	0	357	11

PA6512 - Monte Vista Grove Homes TIS  
 City of Pasadena  
 Near Term With Project AM  
 Intersection Volume Report  
 Future Volume Alternative

Node Intersection	Northbound		Southbound		Eastbound		Westbound					
	L	T	L	T	L	T	L	T				
1 San Gabriel &	291	1092	69	56	619	53	45	310	85	41	649	42
2 San Gabriel &	94	1331	20	20	771	19	22	86	19	25	365	40
3 El Nido & Del	30	4	26	5	6	23	5	353	12	14	665	7
4 El Nido & San	0	0	0	8	0	31	21	86	0	0	376	13

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 Near Term With Project AM

Impact Analysis Report  
 Level of Service

Intersection	East/West	North/South	Future Del./Veh	Future Del./Veh	Change in
# 1 San Gabriel & Del Mar	C 75000	0 756	D xxxxx 0 805	D xxxxx 0 805	+ 0.049 V/C
# 2 San Gabriel & San Pasqual	C xxxxx 0 773	D xxxxx 0 801	D xxxxx 0 801	D xxxxx 0 801	+ 0.028 V/C
# 3 El Nido & Del Mar	C 15 4 0 000	C 18 1 0 000	C 18 1 0 000	C 18 1 0 000	+ 2.433 D/V
# 4 El Nido & San Pasqual	B 10 9 0 000	B 11 1 0 000	B 11 1 0 000	B 11 1 0 000	+ 0.195 D/V

JM6512 - Monte Vista Grove Homes TIS  
 City of Pasadena  
 Near Term With Project AM

Level of Service (Computation Report)

Intersection	Method	Future Del./Veh	Future Del./Veh	Future Del./Veh
Intersection #1 San Gabriel & Del Mar	Level of Service	0.805	0.805	0.805
Cycle (sec)	100	100	100	100
Loss Time (sec)	10 (Y.R. = 4 sec)	10	10	10
Optimal Cycle	58	58	58	58
Street Name	San Gabriel	San Gabriel	San Gabriel	San Gabriel
Approach	North Bound	South Bound	East Bound	West Bound
Control	Permitted	Permitted	Permitted	Permitted
Min Green	0	0	0	0
Lanes	1 0 1 1 0	1 0 1 1 0	1 0 1 1 0	1 0 1 1 0

Volume Module	Base Vol	Peak Vol	Initial Ad	Added Vol	Cumulative	Initial Sat	Initial Adj	PRF Adj	PRF Volume	Reduced Vol	PCE Adj	MLF Adj	Final Vol
Volume Module	267 1037	59 19 581	51 43 251	72 37 742	35	1.03 1.03	1.03 1.03	1.03 1.03	1.03 1.03	1.03 1.03	1.03 1.03	1.03 1.03	1.03 1.03
Initial Ad	275 1068	61 40 598	53 44 259	81 38 764	36	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Added Vol	16 28	8 24	0 0	0 0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Cumulative	291 1096	69 58 619	53 45 310	85 41 849	42	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
Initial Sat	291 1096	69 58 619	53 45 310	85 41 849	42	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
Initial Adj	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
PRF Adj	221 1092	69 56 619	53 45 310	85 41 849	42	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
PRF Volume	221 1092	69 56 619	53 45 310	85 41 849	42	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
Reduced Vol	221 1092	69 56 619	53 45 310	85 41 849	42	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
PCE Adj	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
MLF Adj	221 1092	69 56 619	53 45 310	85 41 849	42	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Final Vol	221 1092	69 56 619	53 45 310	85 41 849	42	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00

Saturation Flow Module	Sat/Lane	Initial Sat	Initial Adj	PRF Adj	PRF Volume	Reduced Vol	PCE Adj	MLF Adj	Final Vol
Saturation Flow Module	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600
Sat/Lane	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600
Initial Sat	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
Initial Adj	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
PRF Adj	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
PRF Volume	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600
Reduced Vol	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600
PCE Adj	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
MLF Adj	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600
Final Vol	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600

Connectivity Analysis Module	Vol/Sat	Initial Sat	Initial Adj	PRF Adj	PRF Volume	Reduced Vol	PCE Adj	MLF Adj	Final Vol
Connectivity Analysis Module	0.18 0.36	0.36 0.72	0.21 0.42	0.12 0.24	0.12 0.24	0.12 0.24	0.12 0.24	0.12 0.24	0.12 0.24
Vol/Sat	0.18 0.36	0.36 0.72	0.21 0.42	0.12 0.24	0.12 0.24	0.12 0.24	0.12 0.24	0.12 0.24	0.12 0.24
Initial Sat	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
Initial Adj	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
PRF Adj	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
PRF Volume	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600
Reduced Vol	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600
PCE Adj	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00
MLF Adj	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600
Final Vol	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600	1600 1600



Level of Service Computation Report  
 1990 HCM Designated Method (Future Volume Alternative)

Intermission 4 El Nido, 4 San Rafael  
 Average Delay (sec/Veh): 1.1 Worst Case Level Of Service: B (11.1)  
 Street Name: North Bound South Bound East Bound West Bound  
 Approach: L T P B L T P B L T P B L T P B L T P B  
 Control: Step Sign Step Sign Uncontrolled Uncontrolled  
 Right-of-Way: 0  
 Lanes: 0

Volume Mobile  
 Base Vol: 0  
 Growth Adj: 1.01 1.03  
 Initial Que: 0  
 Arrive Vol: 0  
 Cumulative: 0  
 Initial Sat: 0  
 User Adj: 1.00  
 PHF Vol: 1.00  
 Product Vol: 0  
 Control Vol: 0  
 Critical Gap Volume: 0

Critical Gap: 6.4 XXXX 6.2 4.1 XXXX XXXX XXXX XXXX XXXX  
 Follow-Up Time: 3.5 XXXX 3.3 2.2 XXXX XXXX XXXX XXXX XXXX  
 Capacity Models  
 Conflict Vol: 510 XXXX 383 390 XXXX XXXX XXXX XXXX XXXX  
 Potential Cap: 527 XXXX 469 1180 XXXX XXXX XXXX XXXX XXXX  
 Move Cap: 519 XXXX 469 1180 XXXX XXXX XXXX XXXX XXXX  
 Volume/Cap: 0.97 0.82 XXXX 0.32 XXXX 0.33 0.32 XXXX XXXX XXXX XXXX  
 Level of Service Method  
 Proposed Delay: 1.1 XXXX XXXX XXXX XXXX 0.1 XXXX XXXX XXXX XXXX XXXX  
 Movement: LTR - LTR - RT - LTR - RT - LTR - RT - LTR - RT - LTR - RT  
 Shared Cap: 519 XXXX XXXX XXXX 431 XXXX XXXX XXXX XXXX XXXX XXXX  
 Shared Queue: 0 XXXX XXXX XXXX 0.2 XXXX 0.1 XXXX XXXX XXXX XXXX XXXX  
 Shared Stop: 0 XXXX XXXX XXXX 11.1 XXXX 8.1 XXXX XXXX XXXX XXXX XXXX  
 Shared LOS: A B B A  
 Approach Delay: XXXX :1.1 XXXXX XXXXX XXXXX  
 Approach LOS: B

JA6512 - Monte Vista Grove Homes TIS  
 City of Pasadena  
 Near Term With Project PM

Trip Generation Report

Forecast for PM

Zone	#	Subzone	Amount	Units	Rate		Trips		Total # of Trips Total
					In	Out	In	Out	
1		Monte Vista	1.00	Monte Vista Gr	4.00	4.00	4	4	8 100 0
		Zone 1 Subtotal					4	4	8 100 0
TOTAL									4 4 8 100 0

JA6512 - Monte Vista Grove Homes TIS  
 City of Pasadena  
 Near Term With Project PM

Scenario Report

Near Term With Project PM  
 Command: Near Term With Project PM  
 Volume: Near Term PM  
 Geometry: Existing  
 Impact Fee: Default Impact Fee  
 Trip Generation: PM  
 Trip Distribution: ALL  
 Paths: Default Paths  
 Routes: Default Routes  
 Configuration: Near Term With Project PM

Percent of Trips Monte Vista Grove Homes

Zone	1	2	3	4	7	8	9	10	11	12	13
1	15.0	10.0	10.0	10.0	10.0	5.0	15.0	5.0	5.0	5.0	5.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

To Gates

Zone	14
1	5.0
2	0.0

Volume Type	Northbound	Southbound	Eastbound	Westbound	Total
	Left Thru Right	Left Thru Right	Left Thru Right	Left Thru Right	Left Thru Right Volume
<b>41 San Gabriel &amp; Del Mar</b>					
Base	102 631 65	66 879	50 39 965 178	61 359 50	3486
Added	0 1 0	0 1 0	0 0 0	0 0 0	0
Subtotal	102 632 65	66 880	50 39 965 178	61 359 50	3486
Total	114 655 71	78 908	51 40 1034 185	72 432 74	3719
<b>42 San Gabriel &amp; San Pasqual</b>					
Base	40 107 25	38 1056	29 24 280 75	15 77 27	2458
Added	0 0 0	1 0 0	0 0 0	0 0 0	0
Cumula	0 40 0	37 44 3	2 14 0	0 17 0	157
Total	40 802 26	76 1100	32 284 75	15 77 27	2619
<b>43 El Nido &amp; Del Mar</b>					
Base	0 0 0	0 0 0	0 0 0	0 0 0	0
Added	0 0 0	0 0 0	0 0 0	0 0 0	0
Cumula	0 0 0	0 0 0	0 0 0	0 0 0	0
Total	0 0 0	0 0 0	0 0 0	0 0 0	0
<b>44 El Nido &amp; San Pasqual</b>					
Base	0 0 0	16 0	22 19 309	0 0 0	461
Added	0 0 0	0 0 0	0 0 0	0 0 0	0
Cumula	0 0 0	16 0	22 19 309	0 0 0	461
Total	0 0 0	16 0	22 19 309	0 0 0	461

JMS512 - Monte Vista Grove Homes TIS  
City of Pasadena

Near Term With Project PM

Impact Analysis Report  
Level of Service

Intersection #1 San Gabriel & Del Mar  
Level of Service Computation Report  
ICU (Loss as Cycle Length 1) Method (Future Volume Alternative)

Cycle Time (sec): 100 Critical Vol /Cap (KI) 0.997  
 Cycle Time (sec): 10 (V/R = 4 sec) Average Delay (sec/veh) xxxxxx  
 Opposite Cycle Level of Service  
 Level of Service

Street Name: San Gabriel Del Mar  
 Approach: North Bound South Bound East Bound West Bound  
 Movement: L T R L T R L T R L T R L T R L T R

Control: Permitted Include Permitted Include Permitted Include Permitted Include  
 Rights: C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
 Lanes: 1 0 1 1 0 0 1 0 1 1 0 0 1 0 1 1 0 0

Saturation Flow Module  
 Sat/Lane: 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600  
 Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00  
 Lanes: 1.00 1.00 0.20 1.00 1.89 0.11 1.00 1.70 0.30 1.00 1.71 0.29  
 Final Sat: 1600 2888 312 1600 3028 172 1600 2714 486 1600 2734 486

Capacity Analysis Module  
 Vol/Sat: 0.07 0.23 0.23 0.05 0.30 0.30 0.03 0.38 0.38 0.04 0.16 0.16  
 Cell Move: \*\*\*\*

JMS512 - Monte Vista Grove Homes TIS  
City of Pasadena

Near Term With Project PM

Impact Analysis Report  
Level of Service

Intersection:  
 # 1 San Gabriel & Del Mar  
 # 2 San Gabriel & San Pasqual  
 # 3 El Nido & Del Mar  
 # 4 El Nido & San Pasqual

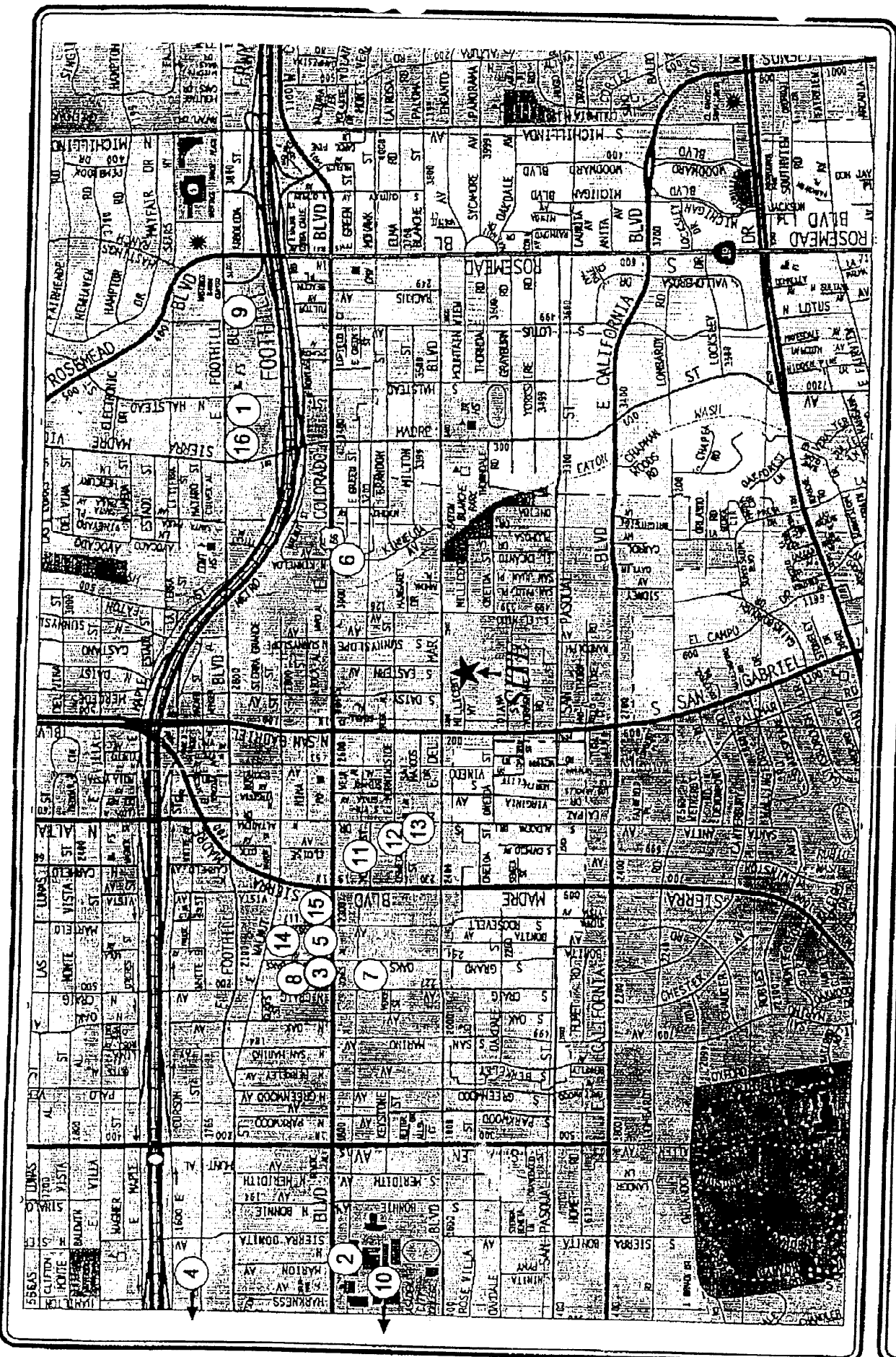
Base Del/V Future Del/V  
 LOS Veh LOS Veh  
 D xxxxx 0.849 D xxxxx 0.897 + 0.047 V/C  
 C xxxxx 0.716 C xxxxx 0.742 + 0.025 V/C  
 E 45.2 0.060 F 79.2 0.060 -34.014 D/W  
 R 10.1 0.060 B 10.3 0.060 + 0.268 D/W



**APPENDIX D**  
**Future Cumulative Project Information**

*Source: Final Traffic Impact Study for a Proposed Medical Office Building on the Southwest Corner of Del Mar Boulevard and San Pasqual Street, prepared by Arthur L. Kassan, P.E., July 2005.*

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**FIGURE 9-1**  
**LOCATION OF RELATED PROJECTS**

MAP SOURCE: THOMAS BROS. GUIDE

NOT TO SCALE



LAS ENCINAS HOSPITAL MASTER PLAN AMENDMENT PROJECT

Table 9-1  
LIST OF RELATED PROJECTS [1]

12-Jan-2006

MAP NO.	LOCATION	LAND USE	SIZE	STATUS
1	Pinnacle at Sierra Madre Villa 3360 East Foothill Boulevard	Apartment	188 DU	Proposed <i>Center</i> <i>Green</i>
2	Pasadena City College Master Plan 1570 East Colorado Boulevard	Community College	5,000 Students	Under Construction
3	Colorado Lofts Project 2191 East California Boulevard	Live/Work Units Retail	44 DU 3900 GLSF	Proposed
4	Gardens on the Hill 315 North Hill Avenue	Apartment Retail	34 DU 8,000 SF	Proposed
5	St. Gregory Armenian Church 2215 East Colorado Boulevard	Church School Expansion	9,000 SF 7,905 SF	Proposed
6	Shopping Center/Research & Development 3020 East Colorado Boulevard	Research & Development Retail	24,400 SF 24,400 SF	Proposed
7	Condominium 54 South Craig Avenue	Condominium	13 DU	Proposed
8	Condominium 96-110 North Craig Avenue	Condominium	18 DU	Proposed
9	Syme's Toyota Dealership 3600 East Foothill Boulevard	Car Dealership	71,200 SF	Proposed
10	St. Phillips Master Development Plan 83-155 South Hill Avenue	School Expansion	116 Students	Proposed
11	Condominium 2425 Mohawk Street	Condominium	7 DU	Under Construction

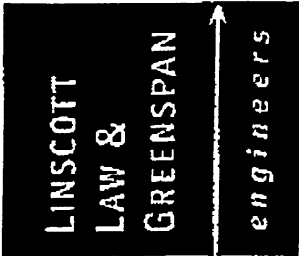


Table 9-1 (Continued)  
LIST OF RELATED PROJECTS [1]

12-Jan-2006

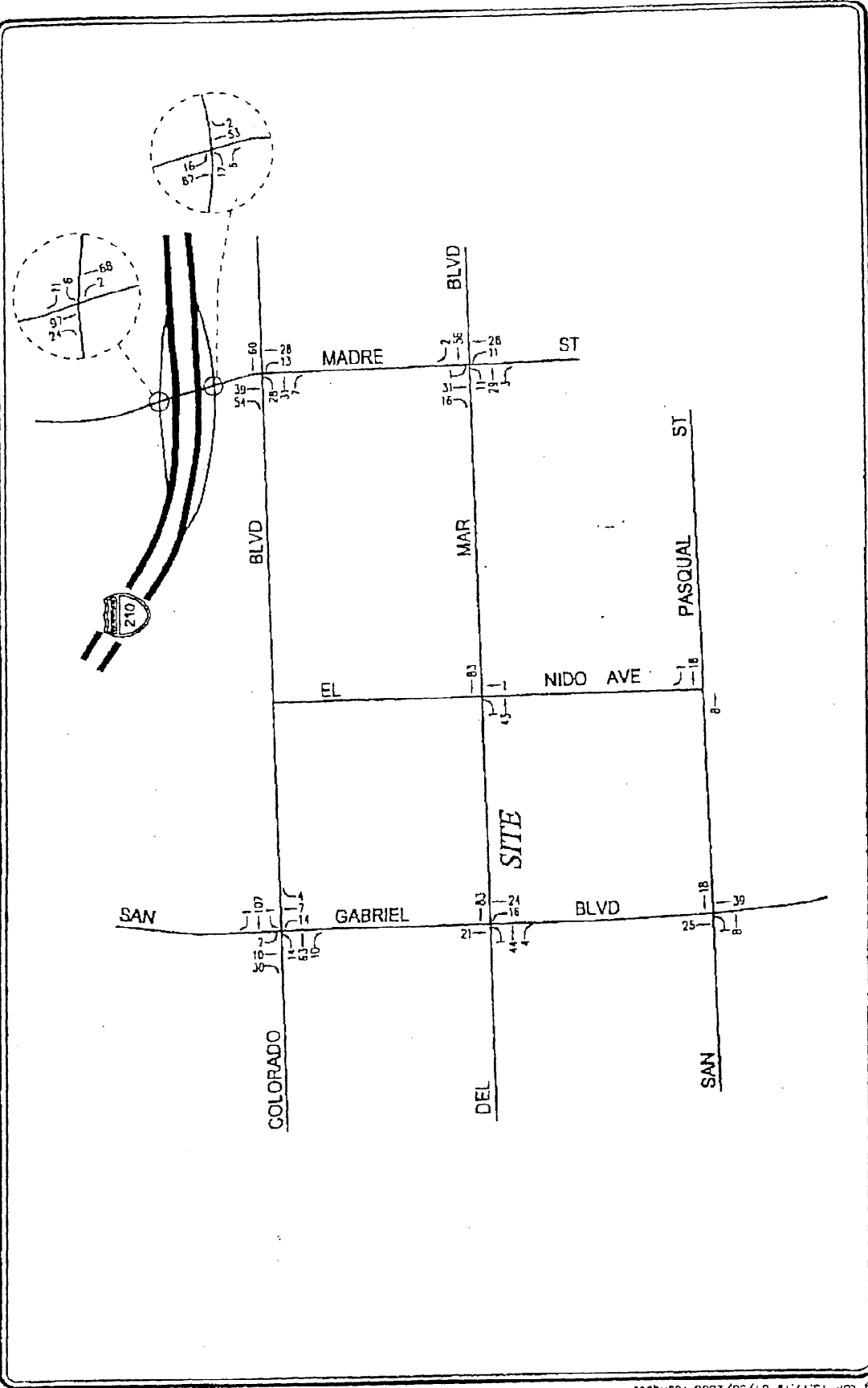
MAP NO.	LOCATION	LAND USE	SIZE	STATUS
12	Condominium 2445 Oswego Street	Condominium	9 DU	Proposed
13	Condominium 2448 Oswego Street	Condominium	8 DU	Proposed
14	Condominium 78-92 North Roosevelt Avenue	Condominium	22 DU	Proposed
15	East Colorado Boulevard Specific Plan [2]	Apartment Commercial	750 DU 650,000 SF	Proposed
16	Placeholder: SMV Station Related project information to be provided by PasDOT staff.			

[1]

Source: City of Pasadena Planning & Development Department Website and PasDOT.

[2]

Source: "City of Pasadena East Colorado Boulevard Specific Plan, Final Environmental Impact Report", prepared by Rincon Consultants Inc, June 2003. Based on discussions with PasDOT staff, it is assumed that 25 percent of the overall East Colorado Boulevard Specific Plan will be built-out by Year 2010 (i.e. the anticipated built-out year for the Las Encinas Hospital Project).

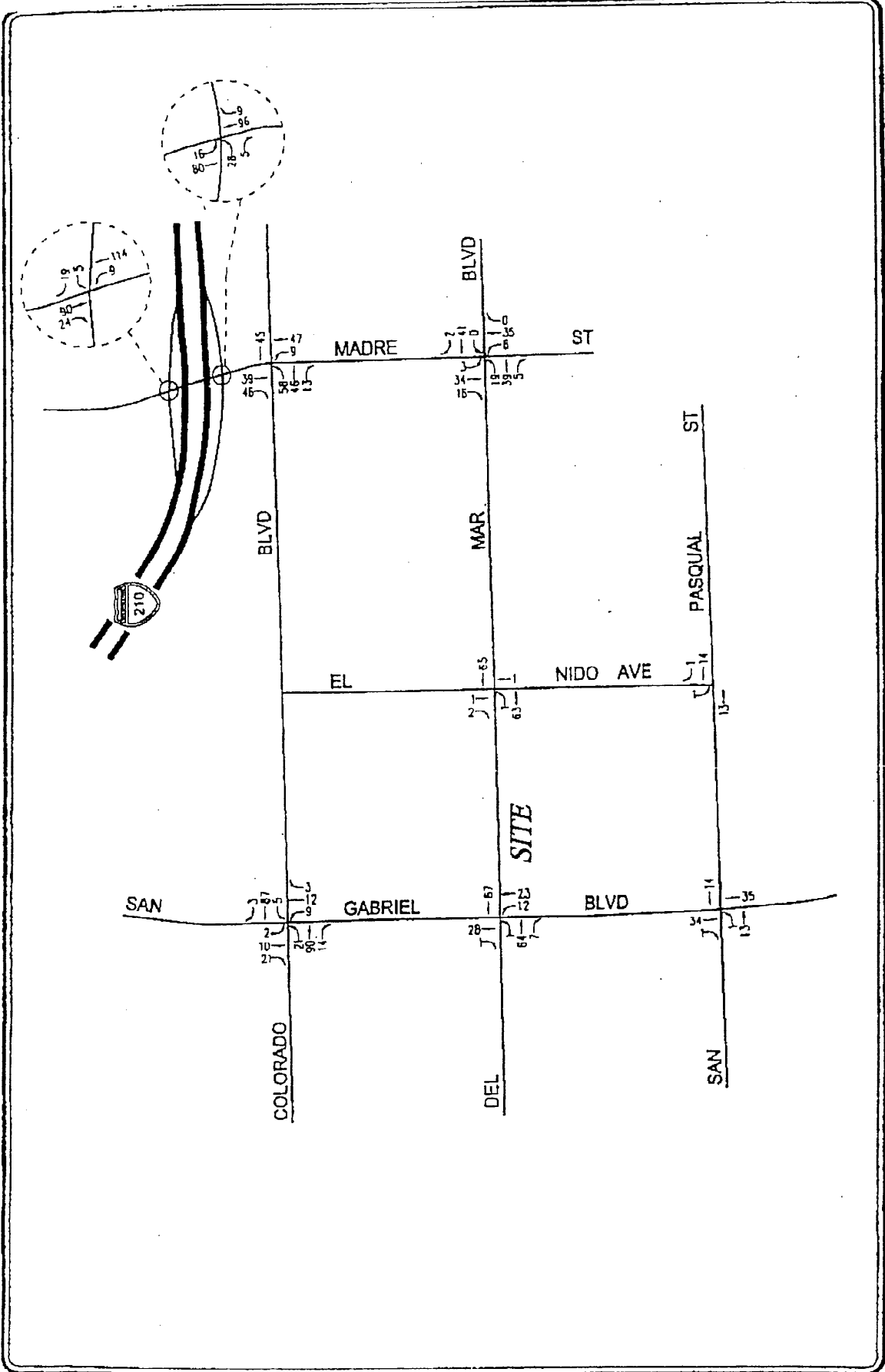


**FIGURE 9-2**  
**RELATED PROJECTS TRAFFIC VOLUMES**  
 AM PEAK HOUR  
 LAS-ENCINAS HOSPITAL MASTER PLAN AMENDMENT-PROJECT

NOT TO SCALE

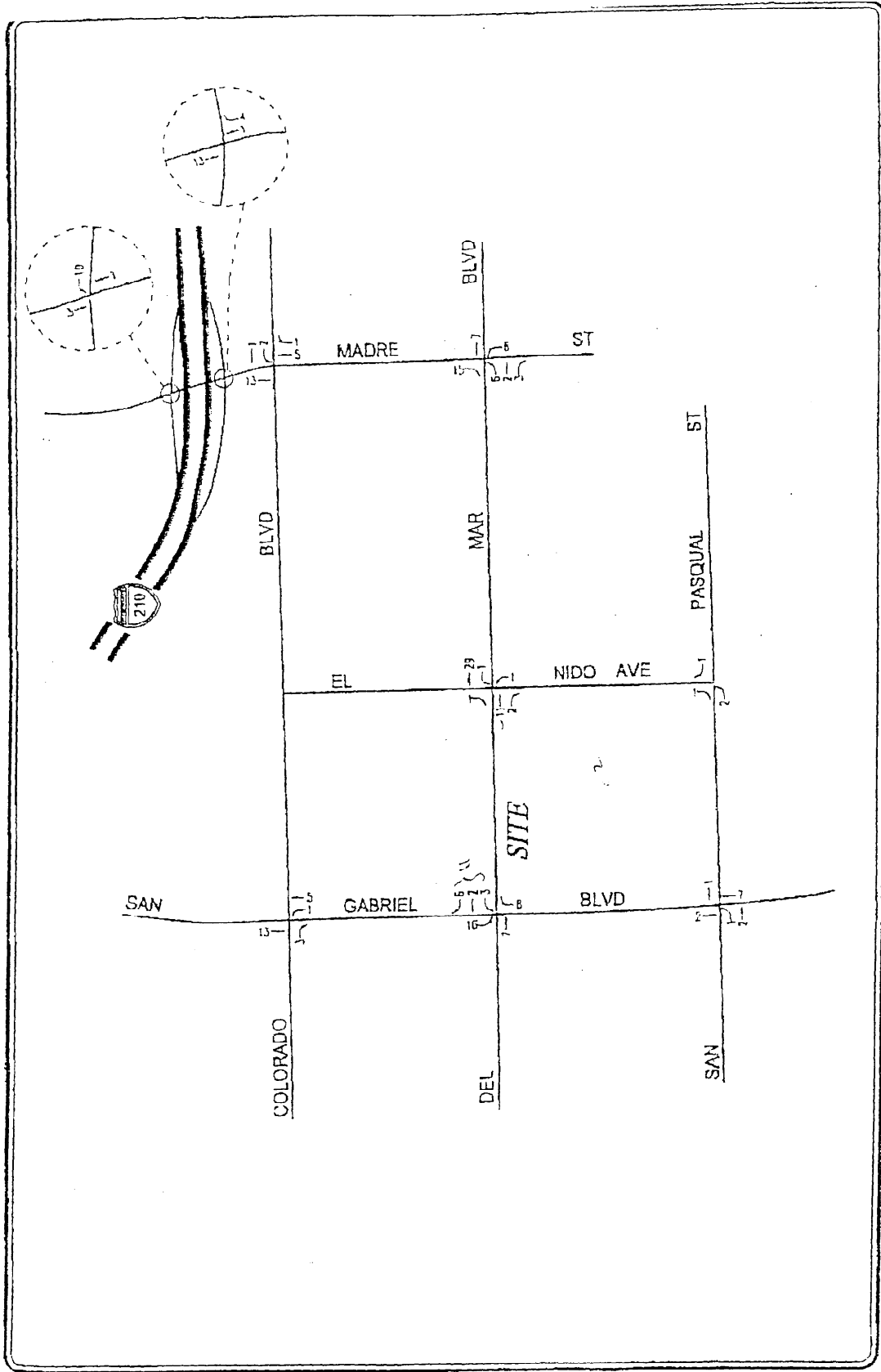
LINSCOTT, LAW & GREENSPAN, engineers

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**FIGURE 9-3**  
**RELATED PROJECTS TRAFFIC VOLUMES**  
 PM PEAK HOUR  
 LAS ENCINAS HOSPITAL MASTER PLAN AMENDMENT PROJECT

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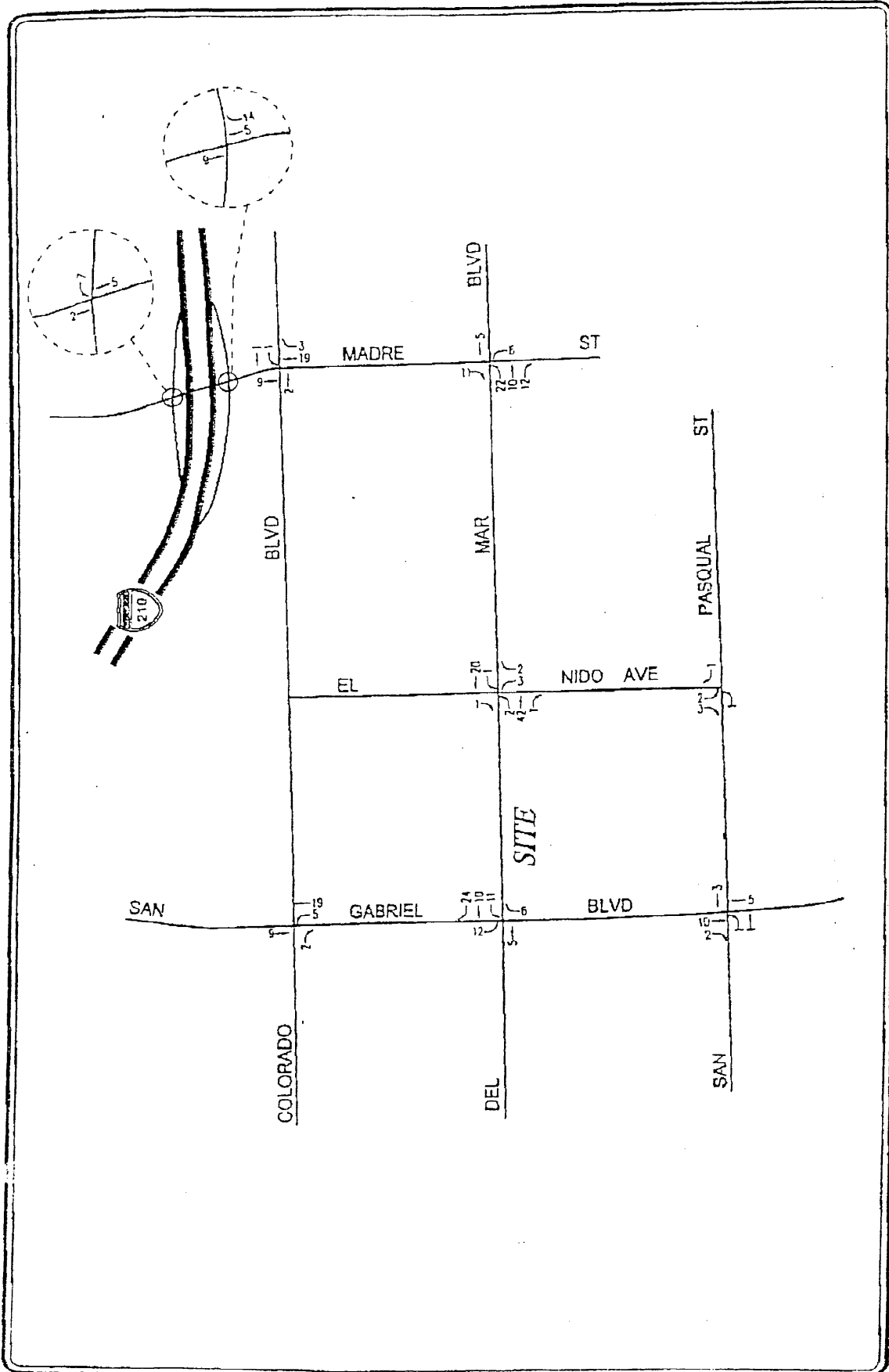


**FIGURE 8-2**  
**PROJECT TRAFFIC VOLUMES**  
 AM PEAK HOUR  
 LAS ENCINAS HOSPITAL MASTER PLAN AMENDMENT PROJECT

NOT TO SCALE

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**FIGURE 8-3**  
**PROJECT TRAFFIC VOLUMES**  
 PM PEAK HOUR  
 LAS ENCINAS HOSPITAL MASTER PLAN AMENDMENT PROJECT



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