Appendices

# Appendix A Vehicle Counts, Pedestrian/Bicycle Counts, and Speed Surveys

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
Phone: (951) 268-6268 email: counts@countsunlimited.com

City of Perris B Street N/ Montanoso Lane 24 Hour Directional Volume Count

PER001 Site Code: 105-221035

Start	11/16/22		bound	Hour	Totals	South	bound		Totals		ed Totals
Time	Wed	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		1	15			1	14				
12:15		1	10			3	8				
12:30		0	8	0	4.5	0	8	4	20	0	00
12:45 01:00		0	12	2	45	0	8	4	38	6	83
01:00		0	8 16			1 0	13 21				
01:30		1	14			2	15				
01:45		0	13	2	51	1	27	4	76	6	127
02:00		0	45	_	01	0	48	7	70	O	121
02:15		0	63			1	24				
02:30		1	26			1	12				
02:45		1	14	2	148	0	13	2	97	4	245
03:00		0	9			1	14				
03:15		3	16			0	14				
03:30		1	25			1	12				
03:45		4	19	8	69	1	25	3	65	11	134
04:00		1	16			0	16				
04:15		2	3			0	11				
04:30		9	14			2	10				
04:45		1	6	13	39	1	14	3	51	16	90
05:00 05:15		3 9	14 12			2 1	14 13				
05:30		7	13			1	11				
05:45		2	12	21	51	3	12	7	50	28	101
06:00		2	14	21	31	2	16	,	30	20	101
06:15		5	3			6	6				
06:30		5 5	7			3	6				
06:45		7	7	20	31	2	8	13	36	33	67
07:00		10	9			9	8				
07:15		18	3			10	8				
07:30		45	4			20	7				
07:45		60	7	133	23	29	9	68	32	201	55
08:00		60	7			13	5				
08:15		28	3			29	9				
08:30		15	4			30	8				
08:45		10	2	113	16	8	2	80	24	193	40
09:00		12	2			12	3				
09:15		9	3			8	8				
09:30		6	4	0.7	4.4	5	2	00	47	07	00
09:45		10	2	37	11	5 8	4	30	17	67	28
10:00 10:15		8 6	0			8	4 4				
10:13		11	3			5	2				
10:45		4	0	29	4	8	2	29	12	58	16
11:00		8	2	20	7	13	1	20	12	00	10
11:15		15	2			9	2				
11:30		14	1			13	0				
11:45		5	1	42	6	7	2	42	5	84	11
Total		422	494	422	494	285	503	285	503	707	997
Combined		91	6	91	6	78	28	78	28	17	04
Total			0	31	O		,	70	,0	17	04
AM Peak	-	07:30	-	-	-	07:45	-	-	-	-	-
Vol.	-	193	-	-	-	101	-	-	-	-	-
P.H.F.		0.804	00.00			0.842	04.00				
PM Peak	-	-	02:00	-	-	-	01:30	-	-	-	-
Vol. P.H.F.	-	-	148 0.587	-	-	-	114 0.594	-	-	-	-
r.n.r.			0.367				0.594				
Percentag											
е		46.1%	53.9%			36.2%	63.8%				
ADT/AADT		ADT 1,704	A	ADT 1,704							

Site Code: 105-221035

# Counts Unlimited, Inc. PO Box 1178

PO Box 1178 Corona, CA 92878 Phone: (951) 268-6268 email: counts@countsunlimited.com

City of Perris B Street B/ Montanoso Lane - Ellis Avenue 24 Hour Directional Volume Count

ADT/AADT

	44/40/00	N I a with h		Harry 7	r-4-l-	C = 4l=	h =	Harm	Tatala	O-mahina	d Tatala
Start Time	11/16/22 Wed	Northb Morning	ouna Afternoon	Hour 1 Morning	Afternoon		bound Afternoon	Hour Morning	Totals Afternoon	Combine Morning	Afternoon
12:00	vveu	iviorriirig	14	Morning	Aitemoon	Morning 2	8	Morning	Aitemoon	worning	Aitemoon
12:15		1	9			3	9				
12:30		Ó	10			0	7				
12:45		0	8	2	41	0	9	5	33	7	74
01:00		0	7	2	41	0	11	3	33	,	74
01:00		1	13			0	16				
		1	14								
01:30		-		0	4.4	2	13	0	00	_	407
01:45		0	10	2	44	1	23	3	63	5	107
02:00		0	39			0	34				
02:15		0	62			1	24				
02:30		0	26			1	14				
02:45		1	16	1	143	1	13	3	85	4	228
03:00		0	9			1	18				
03:15		3	14			0	15				
03:30		1	11			1	14				
03:45		4	15	8	49	1	27	3	74	11	123
04:00		1	15			0	16				
04:15		2	4			0	12				
04:30		9	13			1	10				
04:45		1	7	13	39	1	14	2	52	15	91
05:00		2	13			2	14				
05:15		9	12			1	13				
05:30		7	13			0	10				
05:45		2	12	20	50	4	13	7	50	27	100
06:00		3	15	20	00	2	16	•	00		.00
06:15		5	2			2 3	6				
06:30		5	7			3	7				
06:45		8	6	21	30	1	9	9	38	30	68
07:00		10	8	21	30	6	7	3	50	30	00
07:00		20	2			6	6				
07:13		46	5			22	8				
		61		107	22	22		EG	24	102	ΕA
07:45			8	137	23		10	56	31	193	54
08:00		57	5			14	5				
08:15		22	3			19	8				
08:30		11	4	400		26	8			101	
08:45		10	2	100	14	5	1	64	22	164	36
09:00		13	3			8	3				
09:15		9	3			6	9				
09:30		5	3			5 5	2				
09:45		11	2	38	11	5	4	24	18	62	29
10:00		10	1			7	4				
10:15		5	0			6	4				
10:30		8	3			3	1				
10:45		5	0	28	4	10	1	26	10	54	14
11:00		8	2			9	1				
11:15		12	2			7	3				
11:30		13	1			12	0				
11:45		3	1	36	6	4	2	32	6	68	12
Total		406	454	406	454	234	482	234	482	640	936
Combined		860	1	86	0	71	6	71	16	157	76
Total			,	00	U		U	/ 1	10	15	U
AM Peak	-	07:30	-	-	-	07:45	-	-	-	-	-
Vol.	-	186	-	-	-	81	-	-	-	-	-
P.H.F.		0.762				0.779					
PM Peak	-	-	02:00	-	-	-	01:45	-	-	-	-
Vol.	_	_	143	_	_	_	95	_	_	_	_
P.H.F.			0.577				0.699				
			0.011				2.000				
Percentag		4= 651	F0 651			66 ==:	o= c::				
e		47.2%	52.8%			32.7%	67.3%				
		ADT 4 570		. D. T							

AADT 1,576

ADT 1,576

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
Phone: (951) 268-6268

City of Perris Montanoso Lane E/ B Street 24 Hour Directional Volume Count

PER005 Site Code: 105-221035 email: counts@countsunlimited.com

Start	11/16/22	Eastbo	und	Hour	Totals	West	bound	Hour	Totals	Combine	ed Totals
Time	Wed	Morning A	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	6			1	0				
12:15		0 0	1			0	2				
12:30 12:45		0	3	0	11	0	1 3	1	6	1	17
01:00		1	2	O		0	2		O	'	17
01:15		Ö	5			0	2				
01:30		0	6			0	2				
01:45		0	4	1	17	0	5	0	11	1	28
02:00		0	19			0	7				
02:15		0	6			0	4				
02:30		0	1			1	1				
02:45		0	3	0	29	1	2	2	14	2	43
03:00		0 0	1			0	3				
03:15 03:30		0	4 0			0	2 0				
03:45		0	1	0	6	0	2	0	7	0	13
04:00		0	2	O	o	0	3	O	,	O	13
04:15		0	2			0	1				
04:30		1	1			0	2				
04:45		0	1	1	6	0	0	0	6	1	12
05:00		0	1			1	2				
05:15		0	2			0	2				
05:30		1	2	4	7	0	1	2	0	4	45
05:45 06:00		0	2	1	7	2 0	3	3	8	4	15
06:15		1	0			2	1				
06:30		1	1			1	2				
06:45		0	2	2	4	0	4	3	7	5	11
07:00		2	1			6	1				
07:15		3	3			2	1				
07:30		5	1			10	1				
07:45		6	1	16	6	2	1	20	4	36	10
08:00		8	1			6	3				
08:15		13	1			4	0				
08:30		10	0	25	0	3	0	4.4	2	40	0
08:45 09:00		4 3	1 1	35	3	1 0	0	14	3	49	6
09:00		2	0			0	1				
09:30		0	0			0	1				
09:45		0	0	5	1	1	0	1	2	6	3
10:00		5	0			1	0				
10:15		1	0			1	0				
10:30		1	1			0	0				
10:45		1	1	8	2	3	0	5	0	13	2
11:00		2 3	0			1	0				
11:15 11:30		4	0			2 4	0				
11:45		2	0	11	0	2	0	9	1	20	1
Total		80	92	80	92	58	69	58	69	138	161
Combined		172		17		12	07	12	7	29	00
Total				17	_		-1	12	-1	28	,,,
AM Peak	-	07:45	-	-	-	07:30	-	-	-	-	-
Vol.	-	37	-	-	-	22	-	-	-	-	-
P.H.F. PM Peak		0.712	01:30			0.550	01:30				
Vol.	-	-	35	-	-	-	18	-	-	-	-
P.H.F.	-	_	0.461	-	-	_	0.643	-	-	-	_
Percentag		46.5%	53.5%			45.7%	54.3%				
e				AADT CCC		70.1 /0	U-T.U /U				
ADT/AADT		ADT 299		AADT 299							

Site Code: 105-221035

# Counts Unlimited, Inc.

PO Box 1178 Corona, CA 92878 Phone: (951) 268-6268 email: counts@countsunlimited.com

City of Perris Perris Lake High School North Driveway W/ B Street 24 Hour Directional Volume Count

Start 11/16/22 Eastbound Hour Totals Westbound Hour Totals **Combined Totals** Time Wed Morning Afternoon Morning Afternoon Morning Afternoon Morning Afternoon Morning Afternoon 12:00 12:15 12:30 12:45 01:00 01:15 01:30 01:45 02:00 02:15 02:30 02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15 11:30 11:45 Total Combined

Total		100	)	100		71		/1		171	
AM Peak	-	07:45	-	-	-	07:00	-	-	-	-	
Vol.	-	24	-	-	-	24	-	-	-	-	
P.H.F.		0.667				0.750					
PM Peak	-	-	03:00	-	-	-	12:00	-	-	-	
Vol.	-	-	29	-	-	-	8	-	-	-	
P.H.F.			0.426				0.500				
Percentag											
reroontag		40.0%	60.0%			74.6%	25.4%				

ADT/AADT **ADT 171 AADT 171** 

Site Code: 105-221035

# Counts Unlimited, Inc. PO Box 1178

PO Box 1178 Corona, CA 92878 Phone: (951) 268-6268 email: counts@countsunlimited.com

City of Perris B Street S/ Ellis Avenue 24 Hour Directional Volume Count

Time	mbined To							ouriu	Coutin	Ulais	i ioui i			11/16/22	Start
12:00		ı Aftei	orning	Morning	n										
12:15															12:00
12:30								4				4	1		
12:46													0		
01:100 0 0 4 0:100 0 0 1 1 0 0 8 0 1:100 0 1 1 0 0 8 0 1:100 0 1 1 0 0 8 0 1 1 0 0 1:100 0 1 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 0 0 1 1 1 0 0 1 1 0 0 1 1 0 0 1 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 1 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 0 0 1	4	1	4	4	4	14	3		0	13	1		0		
01:15													0		
01:30													-		
01:46													-		
02:00	2	)	2	2	2	10	1			12	1				
02:15         0         12         0         10         0         6         0         3         0         36         0	2	_	2	2	9	19	1			12	1		-		
02:30															
02:45 0 7 0 32 0 8 0 36 0 36 03:00 0 3 1 9 0 36 03:00 0 3 1 9 0 0 36 03:15 3 4 0 0 7 0 32 0 0 8 0 7 0 32 0 36 03:15 3 4 0 0 7 0 33:45 3 8 7 20 0 9 9 2 32 04:00 0 9 9 0 0 5 0 5 0 04:15 1 1 1 0 0 7 7 0 04:30 5 6 0 0 9 0 0 5 0 0 9 0 0 0 0 0 0 0 0 0 0 0															
03:00 0 0 3 0 1 9 0 7 0 0 7 0 0 9 0 0 7 0 0 9 0 0 7 0 0 9 0 0 0 9 0 0 0 9 0 0 0 9 0 0 0 0 0 9 0															
03:15	0	)	0	0	3	36	0	8	0	32	0	7	0		
03:30								9	1			3	0		
03:30								7	0			4	3		03:15
03:45								7	1			5	1		
04:00	9	9	9	9	2	32	2		0	20	7		3		
04:15	-			_			_	5			-				
04:30															
04:45													-		
05:00	9	)	0	0	7	27	2			10	7				
05:15         5         6           05:30         4         6         0         5         3         30         1           05:45         0         8         10         28         1         5         3         30         1           06:00         2         12         0         4         0         4         0         4         0         4         0         4         0         4         2         2         2         0         4         23         1         1         3         0         1         1         3         0         1         1         3         1         0         4         23         1         1         3         1         0         4         23         1         1         3         1         2         5         4         23         1         1         3         1         2         5         4         23         1         1         4         4         23         1         1         4         4         23         1         1         4         23         1         4         1         1         2         2         2         2 <td< td=""><td>9</td><td>,</td><td>9</td><td>9</td><td>'</td><td>21</td><td>2</td><td></td><td></td><td>10</td><td>,</td><td></td><td>-</td><td></td><td></td></td<>	9	,	9	9	'	21	2			10	,		-		
05:30													-		
05:45         0         8         10         28         1         5         3         30         1           06:00         2         12         0         0         4         0         4         2         0         4         0         4         5         0         15         19         2         5         4         23         1         1         3         1         0         1         3         1         0         1         3         1         0         1         3         1         1         3         1         0         1         3         1         0         1         3         1         0         1         3         1         0         1         3         1         0         1         3         1         0         1         4         1         1         4         1         1         4         1         1         4         1         1         4         1         1         4         1         1         2         2         2         0         1         1         1         3         1         1         1         2         1         3         1															
06:00         2         12         0         12         0         4         2         0         4         2         0         4         0         0         4         0         0         4         0         0         4         0         0         4         0         0         1         1         3         1         0         0         1         1         3         1         0         0         1         1         3         1         0         0         0         1         1         3         1         0 </td <td>4.0</td> <td></td> <td>4.0</td> <td></td>	4.0		4.0												
06:15	13	3	13	13	)	30	3			28	10				
06:30															
06:45         5         0         15         19         2         5         4         23         1           07:00         4         5         1         1         3         2         5         4         23         1           07:30         4         0         1         4         1         4         16         16         4           07:45         6         2         27         8         12         4         16         16         4           08:00         8         1         2         2         3         0         16         4         16         16         4           08:45         2         0         21         2         2         0         14         11         3         3         3         3         0         14         11         3         3         3         0         14         11         3         3         1         1         2         0         14         11         3         3         1         1         2         0         1         1         2         0         1         1         1         1         1         1         1													4		
07:00         4         5         1         1         3         2         5         5         07:35         4         0         1         4         0         1         4         07:45         6         2         27         8         12         4         16         16         4         4         08:00         8         1         2         2         2         3         08:35         9         0         2         3         08:35         2         0         21         2         2         3         08:35         2         0         21         2         2         0         14         11         3         4         11         3         3         3         4         11         3         3         3         3         3         3         3         3         1         1         2         2         0         2         0         2         0         2         0         1         1								2	2			5	4		
07:15         13         1         2         5           07:30         4         0         1         4           07:45         6         2         27         8         12         4         16         16         4           08:00         8         1         2         2         3         3         9         0         2         2         3         3         9         0         2         2         3         3         3         0         14         11         3         3         3         0         14         11         3         3         3         0         14         11         3         3         3         0         14         11         3         3         3         0         14         11         3         3         3         0         14         11         3         3         12         2	19	9	19	19	3	23	4		2	19	15	0	5		06:45
07:15         13         1         2         5           07:30         4         0         1         4           07:45         6         2         27         8         12         4         16         16         4           08:00         8         1         2         2         3         3         9         0         2         2         3         3         9         0         2         2         3         3         3         0         14         11         3         3         3         0         14         11         3         3         3         0         14         11         3         3         3         0         14         11         3         3         3         0         14         11         3         3         3         0         14         11         3         3         12         2								3	1			5	4		07:00
07:30         4         0         1         4         1         4         16         16         4           08:00         8         1         2         2         2         2         3         68:15         9         0         2         3         08:30         2         1         8         6         0         8         6         0         0         1         2         3         0         14         11         3         3         3         0         14         11         3         3         0         14         11         3         3         3         0         14         11         3         3         3         0         14         11         3         3         3         0         14         11         3         3         0         14         11         3         3         0         14         11         3         3         0         14         11         3         2         2         2         2         2         0         1         1         1         3         1         1         1         1         1         1         1         1         1         1								5	2			1	13		07:15
07:45         6         2         27         8         12         4         16         16         4           08:00         8         1         2         2         3         6         2         2         3         6         4         4         1         2         3         6         4         1         3         4         1         2         <												0	4		07:30
08:00         8         1         2         2         2         3         8         6         8         6         8         6         6         8         6         6         8         6         6         8         6         6         8         6         6         8         6         6         8         6         6         8         6         6         8         6         6         6         7         7         7         2         2         2         0         14         11         3         4         4         11         3         3         4         4         11         3         3         4         4         1         4	43	3	43	43	3	16	16			8	27				
08:15         9         0         2         3         8         6           08:45         2         0         21         2         2         0         14         11         3           09:00         7         0         3         3         3         0         14         11         3           09:15         4         1         1         2         0         3         1         0         7         7         7         2         2         0         1         0         1         0         1         0         1         0         1         0         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1	40	,	40	40		10	10		2	O	21				
08:30         2         1         8         6           08:45         2         0         21         2         2         0         14         11         3           09:00         7         0         3         1         0         7         7         7         2         2         2         2         0         2         0         1         0         1         0         1         0         1         0									2						
08:45       2       0       21       2       2       0       14       11       3         09:00       7       0       3       3       3       3       3       3       3       3       3       3       3       3       3       3       4       11       11       2															
09:00       7       0       3       3       3       3       3       3       3       3       3       3       3       3       1       2       2       2       2       2       2       2       2       2       2       2       2       3       3       3       1       0       7       7       7       2       2       0       10:00       7       7       7       2       2       0       10:10       0       7       7       7       2       2       0       10:10       0       2       0        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	0.5	_	0.5	0.5		4.4	4.4		0		0.4				
09:15     4     1     2     2     2       09:30     2     2     2     2     2       09:45     3     0     16     3     1     0     7     7     2       10:00     5     0     2     0     2     0<	35	)	35	35	1	11	14			2	21				
09:30         2         2         2         2         2         2         2         2         2         2         2         0         2         0         2         0         0         2         0         0         2         0         0         2         0 <td></td>															
09:45         3         0         16         3         1         0         7         7         2           10:00         5         0         2         0         2         0         0         10:15         2         0															
10:00									2			2			
10:30 3 0 2 0 10:45 1 0 11 0 4 0 10 0 2 11:00 1:15 4 3 3 0 11:30 6 0 3 1 2 11 3 3 2 11 3 3 3 1 3 3 3 3	23	3	23	23	7	7	7	0	1	3	16	0			
10:30 3 0 2 0 10:45 1 0 11 0 4 0 10 0 2 11:00 1:15 4 3 3 0 11:45 2 0 13 3 1 2 11 3 2 1 1 3 2 1 1 1 3 2 1 1 1 3 1 2 1 1 1 1								0	2			0	5		10:00
10:30 3 0 2 0 10:45 1 0 11 0 4 0 10 0 2 11:00 1:15 4 3 3 0 11:45 2 0 13 3 1 2 11 3 2 1 1 3 2 1 1 1 3 2 1 1 1 3 1 2 1 1 1 1								0	2			0	2		10:15
10:45								0	2			0	3		10:30
11:00     1     0     4     0       11:15     4     3     3     0       11:30     6     0     3     1       11:45     2     0     13     3     1     2     11     3     2       Total     129     158     129     158     73     218     73     218     20       Combined Total     287     287     291     291     291	21	1	21	21	)	0	10		4	0	11				
11:15     4     3     3     0       11:30     6     0     3     1       11:45     2     0     13     3     1     2     11     3     2       Total     129     158     129     158     73     218     73     218     20       Combined Total     287     287     291     291     291										-			1		
11:30     6     0     3     1       11:45     2     0     13     3     1     2     11     3     2       Total     129     158     129     158     73     218     73     218     20       Combined Total     287     287     291     291     291															
11:45     2     0     13     3     1     2     11     3     2       Total     129     158     129     158     73     218     73     218     20       Combined Total     287     287     291     291     291									3				6		11:10
Total 129 158 129 158 73 218 73 218 20 Combined 287 287 291 291	24	1	24	24	2	2	11			2	12				
Combined Total         287         287         291         291			202		3	218		218		158	120				Total
Total 207 207 291 291					,										Combined
	578	578	578	57		91	29		29	7	287	7	28		
ANTERIA - 1/10 1/40															
	-	-	-	-	-	-	-	-		-	-	-		-	
Vol 31 24	-	-	-	-	-	-	-	-		-	-	-		-	Vol.
P.H.F. 0.596 0.500								06.55							P.H.F.
PM Peak 02:00 02:00	-	-	-	-	-	-	-			-	-			-	
Vol 32 36	-	-	-	-	-	-	-		-	-	-		-	-	Vol.
P.H.F. 0.667 0.750								0.750				0.667			P.H.F.
Percentag 44.9% 55.1% 25.1% 74.9%								74 9%	25 1%			55.1%	44 9%		
<u>e</u>								1 1.0 /0	20.170						
DT/AADT ADT 578 AADT 578											AADT 578		ADT 578		DT/AADT

Site Code: 105-221035

# Counts Unlimited, Inc.

PO Box 1178 Corona, CA 92878 Phone: (951) 268-6268 email: counts@countsunlimited.com

City of Perris Ellis Avenue W/ B Street 24 Hour Directional Volume Count

ADT/AADT

ADT 1,037

**AADT 1,037** 



### PEDS

_					
	North Leg B Street	East Leg Montanoso Lane	South Leg B Street	West Leg Montanoso Lane	
12:00 AM	0	0	0	0	0
12:15 AM	0	0	0	0	0
12:30 AM	0	0	0	0	0
12:45 AM 1:00 AM	0	0	0	0	0
1:15 AM	0	0	0	0	0
1:30 AM	0	0	0	0	0
1:45 AM	0	0	0	0	0
2:00 AM	0	0	0	0	0
2:15 AM	0	0	0	0	0
2:30 AM	0	0	0	0	0
2:45 AM	0	0	0	0	0
3:00 AM	0	0	0	1	1
3:15 AM	0	0	0	0	0
3:30 AM	0	0	0	0	0
3:45 AM 4:00 AM	0	0	0	0	0
4:00 AM 4:15 AM	0	0	0	0	0
4:30 AM	0	0	0	0	0
4:45 AM	0	0	0	0	0
5:00 AM	0	0	0	0	0
5:15 AM	0	0	0	0	0
5:30 AM	0	0	0	0	0
5:45 AM	0	0	0	0	0
6:00 AM	0	2	0	0	2
6:15 AM	0	2	0	0	2
6:30 AM	0	0	0	0	0
6:45 AM	0	0	0	0	0
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	1	0	0	1
7:45 AM	0	0	0	2	2
8:00 AM	0	0	2	1	3
8:15 AM 8:30 AM	3	0	0 1	0	3 4
8:45 AM	0	0	0	0	0
9:00 AM	0	0	1	0	1
9:15 AM	1	0	0	1	2
9:30 AM	0	0	0	0	0
9:45 AM	2	2	3	0	7
10:00 AM	0	0	0	0	0
10:15 AM	2	0	0	2	4
10:30 AM	0	0	0	1	1
10:45 AM	0	0	0	0	0
11:00 AM	0	0	0	0	0
11:15 AM	1	0	0	0	1
11:30 AM	0	0	0	0	0
11:45 AM	0	0	0	0	0
12:00 PM 12:15 PM	0	0	0	0	0
12:30 PM	0	0	0	0	1 0
12:45 PM	0	0	0	0	0
1:00 PM	0	0	0	0	0
1:15 PM	0	0	0	0	0
1:30 PM	0	0	0	0	0
1:45 PM	0	0	0	0	0
2:00 PM	5	0	15	2	22
2:15 PM	2	1	0	2	5
2:30 PM	0	2	1	2	5
2:45 PM	0	0	0	0	0
3:00 PM	0	0	0	0	0
3:15 PM	0	0	0	0	0
3:30 PM 3:45 PM	0	1 1	0	0	1 1
4:00 PM	0	3	0	0	3
4:15 PM	1	1	0	1	3
4:30 PM	0	0	0	0	0
4:45 PM	0	1	0	0	1
5:00 PM	0	0	0	0	0
5:15 PM	0	1	0	0	1
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
6:00 PM	0	0	0	1	1
6:15 PM	0	0	0	1	1
6:30 PM	0	0	0	0	0
6:45 PM	0	1	1	0	2
7:00 PM	0	0	0	0	0
7:15 PM 7:30 PM	0	0	0	1	0 1
7:45 PM	0	0	0	0	0
8:00 PM	0	0	0	0	0
8:15 PM	0	0	0	0	0
8:30 PM	0	0	0	0	0
8:45 PM	0	0	0	0	0
9:00 PM	0	0	0	0	0
9:15 PM	0	0	0	0	0
9:30 PM	0	0	0	0	0
9:45 PM	0	0	0	0	0
10:00 PM	0	0	0	0	0
10:15 PM	0	0	0	0	0
	0	0	0	0	0
10:30 PM			0	0	0
10:45 PM	0	0			
10:45 PM 11:00 PM	0	0	0	0	0
10:45 PM 11:00 PM 11:15 PM	0	0	0	0	0
10:45 PM 11:00 PM	0	0	0	0	



Date: 11/16/2022 Weather: Clear

### BIKES

Ī		Southbound	ı		Westbound			Northbound	i		Eastbound	
	Left	B Street Thru	Right	Left M	ontanoso La Thru	ne Right	Left	B Street Thru	Right	Left M	lontanoso La Thru	ne Right
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM 1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
1:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
2:15 AM 2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
2:30 AIVI 2:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
3:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM 4:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 AM 4:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
5:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM 6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	1	0	0	0	0	0	0	0	0	0
7:15 AM	0	1	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM 8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM 10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	1	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM 12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM 2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	1	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM 4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM 4:15 PM	0	0	0	0	0	0	0	0	1	0	0	0
4:15 PM	0	0	0	1	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM 6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
8:15 PM 8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
8:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
9:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
9:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM 10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
10:45 PM 11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
						0	0	0	0	0	0	0
11:45 PM	0	0	0	0	0	U						



### PEDS

Г	North Leg	East Leg	South Leg	West Leg	l
	B Street	Ellis Avenue	B Street	Ellis Avenue	
12:00 AM 12:15 AM	0	0	0	0	0
12:30 AM	0	0	0	0	0
12:45 AM	0	0	0	0	0
1:00 AM 1:15 AM	0	0	0	0	0
1:30 AM	0	0	0	0	0
1:45 AM	0	0	0	0	0
2:00 AM	0	0	0	0	0
2:15 AM 2:30 AM	0	0	0	0	0
2:45 AM	0	0	0	0	0
3:00 AM	0	0	0	0	0
3:15 AM 3:30 AM	0	0	0	0	0
3:45 AM	0	0	0	0	0
4:00 AM	0	0	0	0	0
4:15 AM	0	0	0	0	0
4:30 AM 4:45 AM	0	0	0	0	0
5:00 AM	0	0	0	0	0
5:15 AM	0	0	0	0	0
5:30 AM	0	0	0	0	0
5:45 AM 6:00 AM	0	0	0	0	0
6:15 AM	0	0	0	0	0
6:30 AM	0	0	0	0	0
6:45 AM 7:00 AM	0	0	0	0	0
7:00 AM 7:15 AM	0	2	0	0	2
7:30 AM	1	0	1	0	2
7:45 AM	0	0	0	1	1
8:00 AM 8:15 AM	0 1	0	0	0 1	0 2
8:30 AM	1	0	0	0	1
8:45 AM	0	0	0	0	0
9:00 AM 9:15 AM	0 1	0	0	0 1	0 2
9:30 AM	0	0	0	0	0
9:45 AM	3	0	0	0	3
10:00 AM	0	1	0	0	1
10:15 AM 10:30 AM	0	0	0	0	0
10:45 AM	0	0	0	0	0
11:00 AM	0	1	1	0	2
11:15 AM	0	0	0	0	0
11:30 AM 11:45 AM	0	0	0	0	0
12:00 PM	0	0	0	0	0
12:15 PM	0	0	0	0	0
12:30 PM 12:45 PM	0	0	0	0	0
1:00 PM	0	0	0	0	0
1:15 PM	0	0	0	0	0
1:30 PM	0	0	0	0	0
1:45 PM 2:00 PM	3	0	0	3	2 6
2:15 PM	6	5	4	0	15
2:30 PM	0	3	1	0	4
2:45 PM 3:00 PM	0	0	0	0	0
3:15 PM	5	0	0	0	5
3:30 PM	0	1	0	0	1
3:45 PM	3	0	0	0	3
4:00 PM 4:15 PM	2	0	0	0	3 2
4:30 PM	1	0	0	0	1
4:45 PM	3	0	0	0	3
5:00 PM 5:15 PM	0	0	0	0 1	0 1
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	1	1
6:00 PM	0	0	0	0	0
6:15 PM 6:30 PM	0	0	0	0	0
6:45 PM	0	0	0	1	1
7:00 PM	0	0	0	0	0
7:15 PM	0	0	0	0	0
7:30 PM 7:45 PM	0	0	0	0	0
8:00 PM	0	0	0	0	0
8:15 PM	0	0	0	0	0
8:30 PM	0	0	0	0	0
8:45 PM 9:00 PM	0	0	0	0	0
9:15 PM	0	0	0	0	0
9:30 PM	0	0	0	0	0
9:45 PM 10:00 PM	0	0	0	0	0
10:00 PM 10:15 PM	0	0	0	0	0
10:30 PM	0	0	0	0	0
10:45 PM	0	0	0	0	0
11:00 PM	0	0	0	0	0
11-1E D&A	U	U		U	
11:15 PM 11:30 PM	0	0	0	0	0
	0 0 34	0 0 14	0 0 7	0 0 10	0 0 65



Date: 11/16/2022 Weather: Clear

						BII	KES						
		Southbound	i		Westbound			Northbound	ı		Eastbound		
	Left	B Street Thru	Right	Left	Ellis Avenue Thru	Right	Left	B Street Thru	Right	Left	Ellis Avenue Thru	Right	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM 1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 AM 2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 AM 3:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM 5:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM 6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM 8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	C
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	C
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM 9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	C
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	C
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	C
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM 11:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	1
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	C
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	C
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM 12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	C
12:45 PM	0	0	0	0	0	0	3	0	0	0	0	0	3
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1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	C
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2:15 PM	0	0	0	0	0	0	1	0	0	2	0	0	3
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				City of Perris Radar Speed Survey	<b>is</b> Irvey		
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# Appendix B

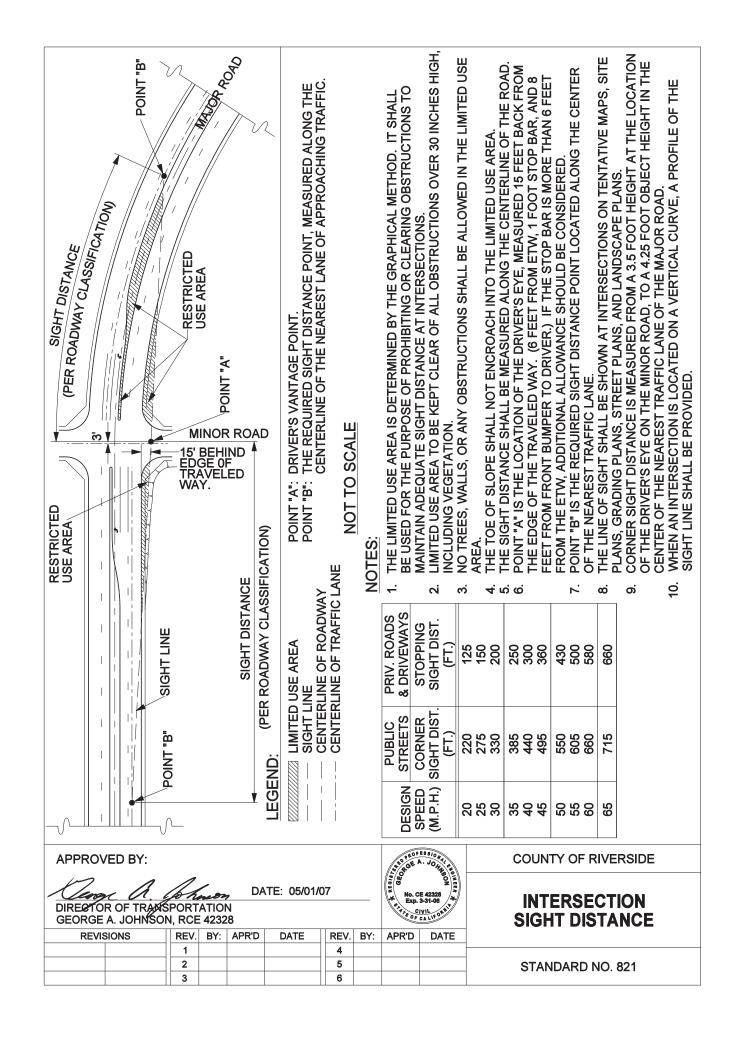
Statewide Integrated Traffic Records System (SWITRS)

Include State Highways cases

Ejected .	Ejected	Ejected	Ejected G	Ejected <b>G</b>
# HWY 10920 10920 EQUIP	Side of Hwy 5 Day MON 9 20221012 t	Side of Hwy Day WED 20220203	WED ::0615	if Hwy / FRI :0602  EQUIP
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B Time 1211 N Process Date Ramp/Int Victim Info Seat Pos Sa	Time 1916  Time 1916  Process Date Ramp/Int Victim Info	Time (1251) Process Date (Ramp/Inicitim Info) (Seat Pos) (S	Time 1630 Process Date (Ramp/Int ictim Info Seat Pos Se	Time 1255 N Process Date Ramp/Int Victim Info Seat Pos Sa
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Pos 1237 0 #// FNCTN ROLE DRVR PASS	Post Post 0 #lm NT PRS			Postr 3870 0 #Inji FNCTNG ROLE
		Hwy? N Route PDO #Killed ND Rdwy Cond2 Cntr Dev Chr Dev OAF2 Safety Equip	e v e v	
	3300 State Hwy? N Route 0 CalTrans Badga Severity PDO #Kill NO UNUSL CND Rdwy Cond2 Ped Action Cnth D OAF1 Viol OAF2 Safety Equ	Rdwy F2 Sa	3300 State Hwy? (N Route Carrans Seventy INJURY #KII NO UNUSL CND Rdwy Cond2 Ped Action Contr D Contr	2 3300 State Hwy? N Route 0 CalTrans Badge Severity INJURY #Kill NO UNUSL CND Rdwy Cond2 Ped Action Cntrl D OAF1 Viol OAF2 Safety Equ N M G
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OP S We obrie	Primary Rd RAVENHOLLOW DR Distance (ft) City Perris County Riverside Primary Collision Factor UNSAFE SPEED Weather1 CLEAR Weather2 Hit and Run MSDMNR Motor Vehic Party Type Age Sex Race Sobriety1 Sobriety 1F OTHR 998 - IMP UNK IMP UN	IPROF	ISAFI ISAFI We Sobrie	R-O-W / W/
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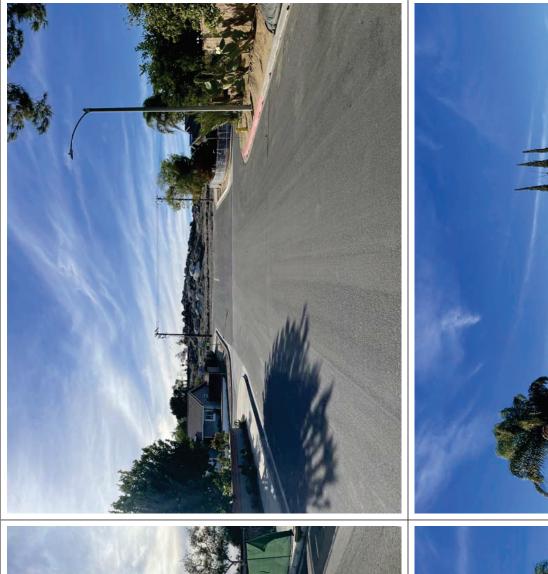
# Appendix C

Intersection Sight Distance Standards



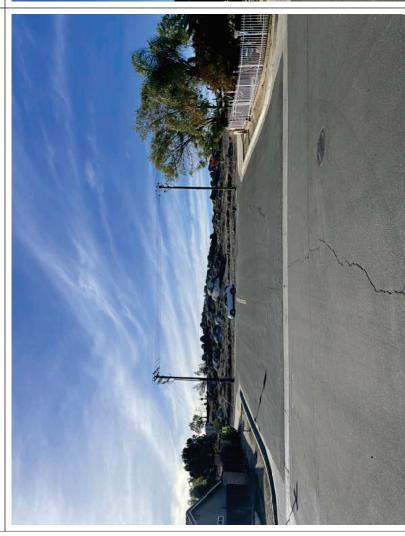
# Appendix D

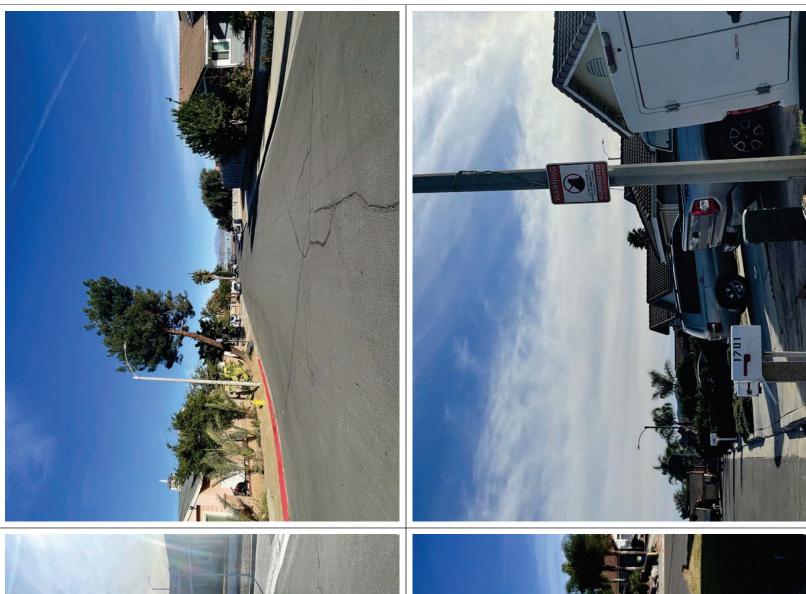
Field Review Photographs



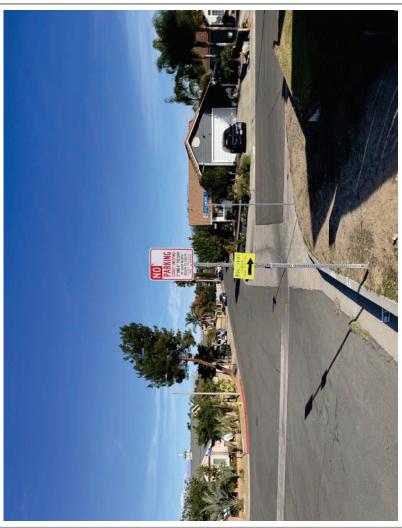


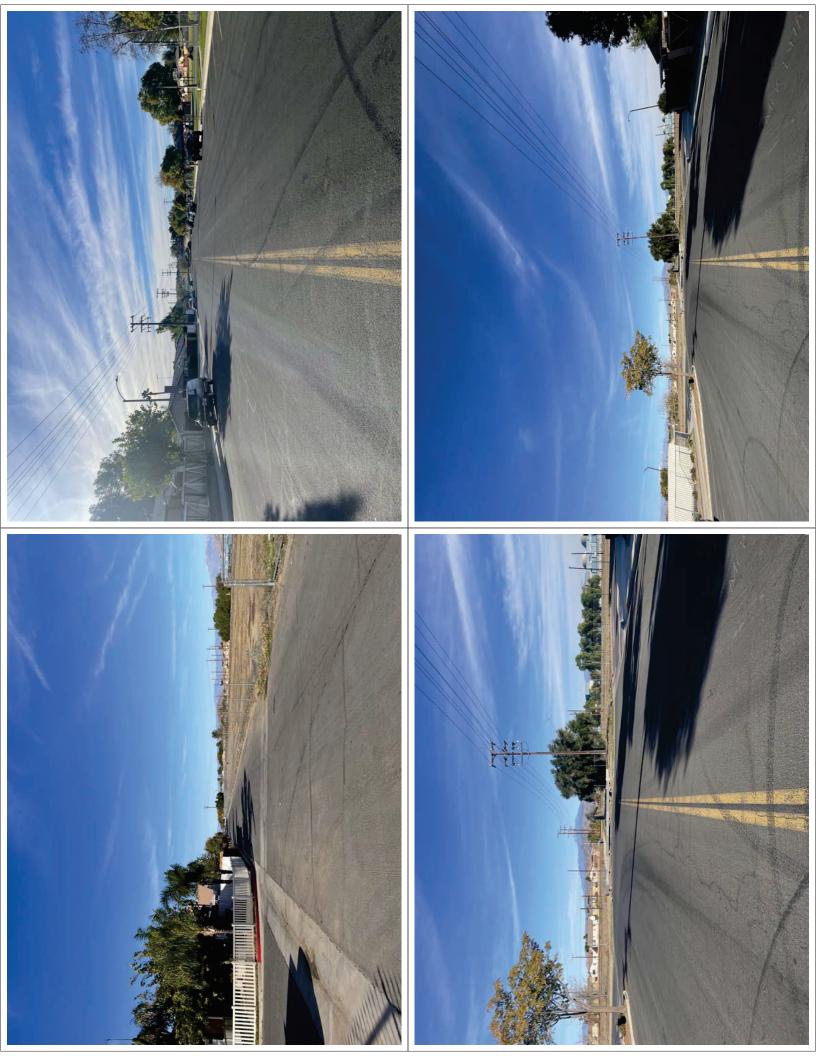


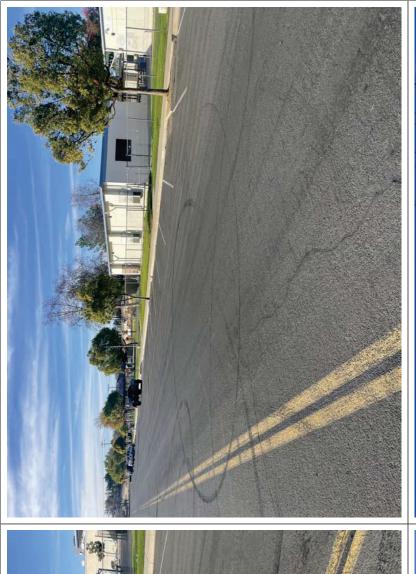


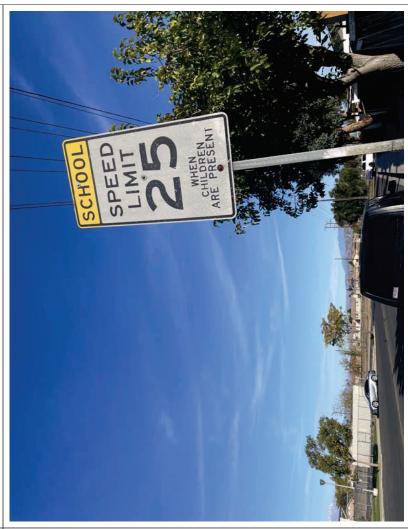






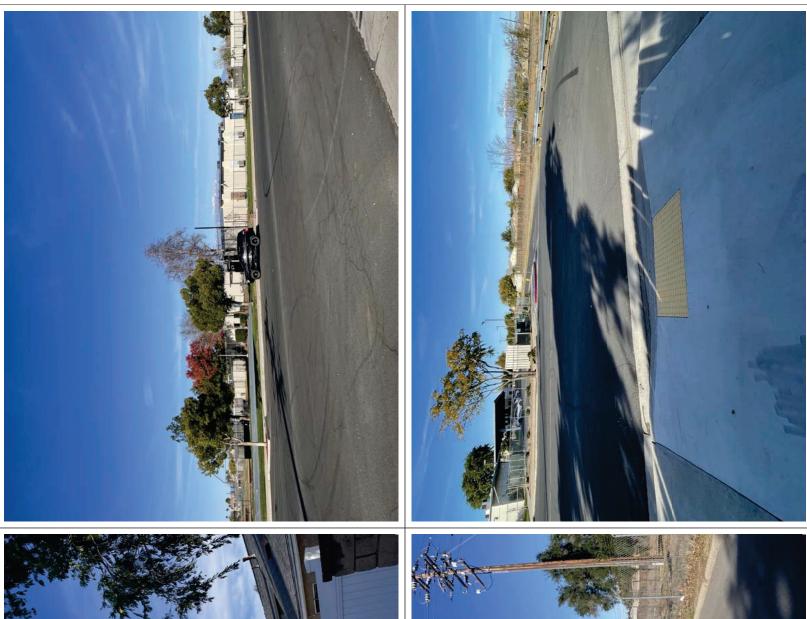


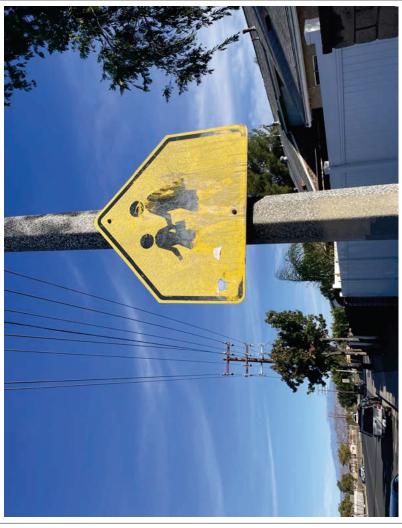


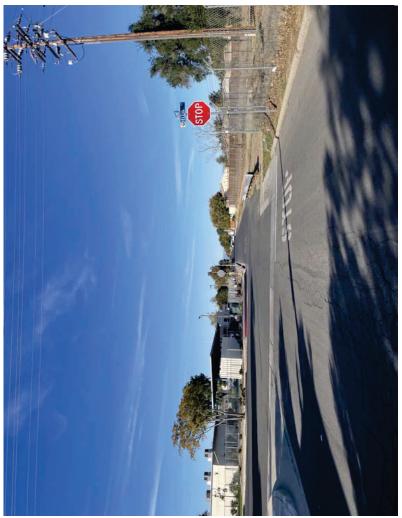


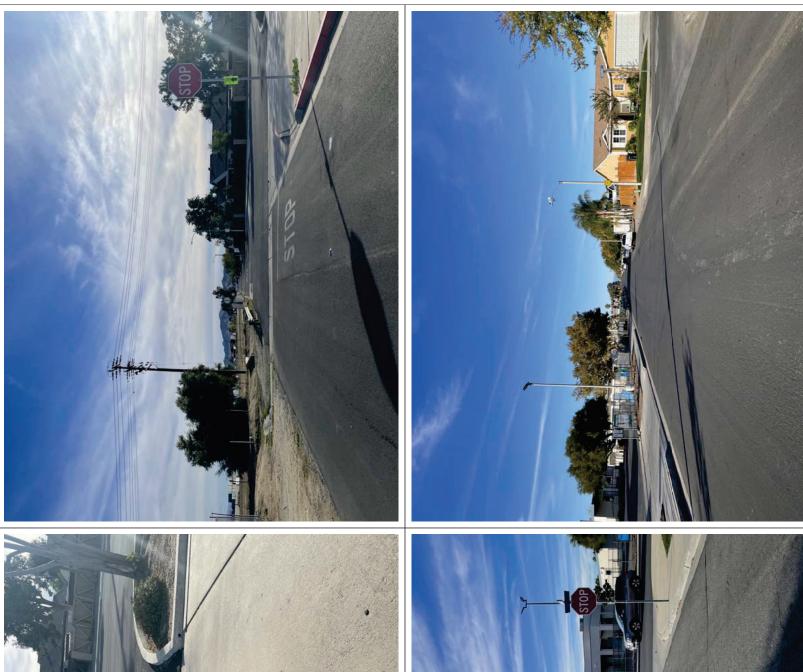






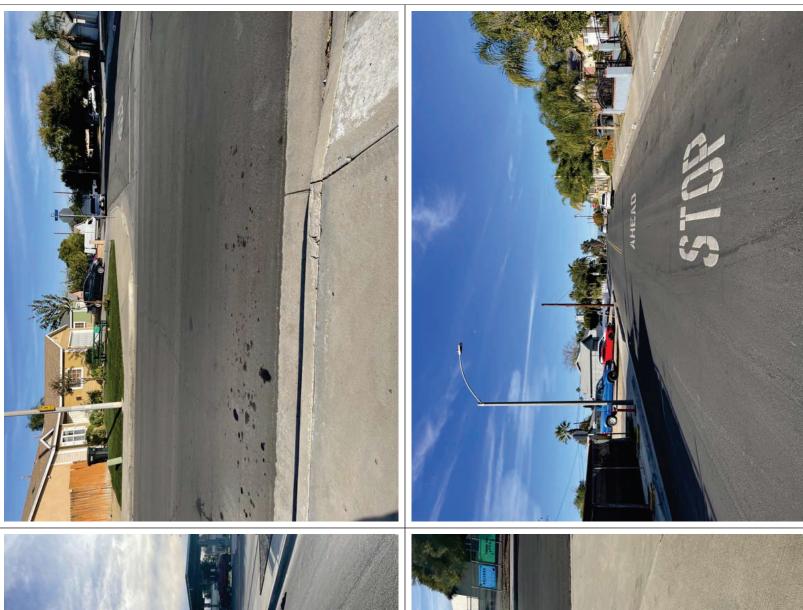


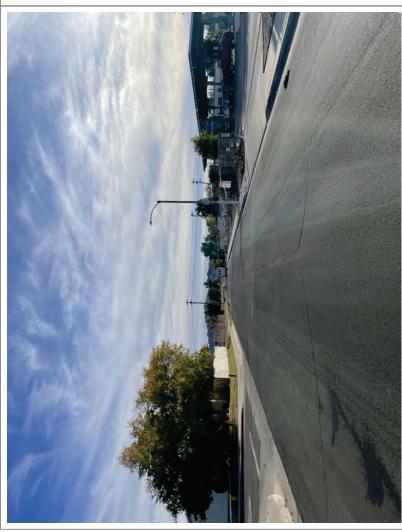














# Appendix E

CA MUTCD All-Way Stop Warrant Conditions

### Support:

17 Caltrans will grant such permission only when an investigation indicates that the STOP (R1-1) sign will benefit traffic.

### **Section 2B.06 STOP Sign Applications**

### Guidance:

- 01 At intersections where a full stop is not necessary at all times, consideration should first be given to using less restrictive measures such as YIELD signs (see Sections 2B.08 and 2B.09).
- 02 The use of STOP signs on the minor-street approaches should be considered if engineering judgment indicates that a stop is always required because of one or more of the following conditions:
  - A. The vehicular traffic volumes on the through street or highway exceed 6,000 vehicles per day;
  - B. A restricted view exists that requires road users to stop in order to adequately observe conflicting traffic on the through street or highway; and/or
  - C. Crash records indicate that three or more crashes that are susceptible to correction by the installation of a STOP sign have been reported within a 12-month period, or that five or more such crashes have been reported within a 2-year period. Such crashes include right-angle collisions involving road users on the minor-street approach failing to yield the right-of-way to traffic on the through street or highway.

### Support:

03 The use of STOP signs at grade crossings is described in Sections 8B.04 and 8B.05.

### **Section 2B.07 Multi-Way Stop Applications**

### Support:

- of Multi-way stop control can be useful as a safety measure at intersections if certain traffic conditions exist. Safety concerns associated with multi-way stops include pedestrians, bicyclists, and all road users expecting other road users to stop. Multi-way stop control is used where the volume of traffic on the intersecting roads is approximately equal.
- <sub>02</sub> The restrictions on the use of STOP signs described in Section 2B.04 also apply to multi-way stop applications.

### Guidance:

- 03 The decision to install multi-way stop control should be based on an engineering study.
- 04 The following criteria should be considered in the engineering study for a multi-way STOP sign installation:
- A. Where traffic control signals are justified, the multi-way stop is an interim measure that can be installed quickly to control traffic while arrangements are being made for the installation of the traffic control signal.
- B. Five or more reported crashes in a 12-month period that are susceptible to correction by a multi-way stop installation. Such crashes include right-turn and left-turn collisions as well as right-angle collisions.
- C. Minimum volumes:
  - 1. The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 vehicles per hour for any 8 hours of an average day; and
  - 2. The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units per hour for the same 8 hours, with an average delay to minor-street vehicular traffic of at least 30 seconds per vehicle during the highest hour; but
  - 3. If the 85th-percentile approach speed of the major-street traffic exceeds 40 mph, the minimum vehicular volume warrants are 70 percent of the values provided in Items 1 and 2.
- D. Where no single criterion is satisfied, but where Criteria B, C.1, and C.2 are all satisfied to 80 percent of the minimum values. Criterion C.3 is excluded from this condition.

### Option:

- os Other criteria that may be considered in an engineering study include:
- A. The need to control left-turn conflicts;
- B. The need to control vehicle/pedestrian conflicts near locations that generate high pedestrian volumes;
- C. Locations where a road user, after stopping, cannot see conflicting traffic and is not able to negotiate the intersection unless conflicting cross traffic is also required to stop; and

D. An intersection of two residential neighborhood collector (through) streets of similar design and operating characteristics where multi-way stop control would improve traffic operational characteristics of the intersection.

### Section 2B.08 YIELD Sign (R1-2)

### Standard:

01 The YIELD (R1-2) sign (see Figure 2B-1) shall be a downward-pointing equilateral triangle with a wide red border and the legend YIELD in red on a white background.

### Support:

02 The YIELD sign assigns right-of-way to traffic on certain approaches to an intersection. Vehicles controlled by a YIELD sign need to slow down to a speed that is reasonable for the existing conditions or stop when necessary to avoid interfering with conflicting traffic.

### **Section 2B.09 YIELD Sign Applications**

### Option:

- 01 YIELD signs may be installed:
- A. On the approaches to a through street or highway where conditions are such that a full stop is not always required.
- B. At the second crossroad of a divided highway, where the median width at the intersection is 30 feet or greater. In this case, a STOP or YIELD sign may be installed at the entrance to the first roadway of a divided highway, and a YIELD sign may be installed at the entrance to the second roadway.
- C. For a channelized turn lane that is separated from the adjacent travel lanes by an island, even if the adjacent lanes at the intersection are controlled by a highway traffic control signal or by a STOP sign.
- D. At an intersection where a special problem exists and where engineering judgment indicates the problem to be susceptible to correction by the use of the YIELD sign.
- E. Facing the entering roadway for a merge-type movement if engineering judgment indicates that control is needed because acceleration geometry and/or sight distance is not adequate for merging traffic operation.

### **Standard:**

- 02 A YIELD (R1-2) sign shall be used to assign right-of-way at the entrance to a roundabout. YIELD signs at roundabouts shall be used to control the approach roadways and shall not be used to control the circulatory roadway.
- 03 Other than for all of the approaches to a roundabout, YIELD signs shall not be placed on all of the approaches to an intersection.

### Section 2B.10 STOP Sign or YIELD Sign Placement

### **Standard:**

- 01 The STOP or YIELD sign shall be installed on the near side of the intersection on the right-hand side of the approach to which it applies. When the STOP or YIELD sign is installed at this required location and the sign visibility is restricted, a Stop Ahead sign (see Section 2C.36) shall be installed in advance of the STOP sign or a Yield Ahead sign (see Section 2C.36) shall be installed in advance of the YIELD sign.
- 02 The STOP or YIELD sign shall be located as close as practical to the intersection it regulates, while optimizing its visibility to the road user it is intended to regulate.
- <sub>02a</sub> YIELD signs shall not be erected upon the approaches to more than one of the intersecting streets. Refer to CVC 21356.
  - 03 STOP signs and YIELD signs shall not be mounted on the same post.
- 04 No items other than inventory stickers, sign installation dates, and bar codes shall be affixed to the fronts of STOP or YIELD signs, and the placement of these items shall be in the border of the sign.
- 05 No items other than official traffic control signs, inventory stickers, sign installation dates, antivandalism stickers, and bar codes shall be mounted on the backs of STOP or YIELD signs.
- 06 No items other than retroreflective strips (see Section 2A.21) or official traffic control signs shall be mounted on the fronts or backs of STOP or YIELD signs supports.

# Appendix F

All-Way Stop Warrants Worksheet

### ALL-WAY STOP WARRANTS

CALC Major Street: DATE **B STREET** 12/7/2022 DATE Minor Street: **MONTANOSO LANE** CHK 12/7/2022 Scenario: **WEEKDAY CRITERIA SATISFIED FOR FOUR-WAY STOP CONTROL:** NO Any one of the following criteria may warrant four-way stop control: A. TRAFFIC SIGNAL WARRANTED SATISFIED = NO Urgent need for a four-way stop as an interim measure NO **B. ACCIDENTS** SATISFIED = NO Number of Correctable Accidents (5 or more in a 12-month period) 0 C. MINIMUM VOLUMES SATISFIED = NO 1. The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 vehicles per hour for any 8 SATISFIED = NO hours of an average day, and Total Volume = 141 2. The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) SATISFIED = NO averages at least 200 units per hour for the same 8 hours, with an average Minor Volume = delay to minor-street vehicular traffic of at least 30 seconds per vehicle during the highest hour, but 3. If the 85th-percentile approach speed of the major-street traffic exceeds 65 km/h or exceeds 40 mph, the mimimum vehicular volume warrants are SATISFIED = NO 70% of the above values. Critical Speed = Combined average vehicle volume exceeds 210 (300 \* 70%) SATISFIED = NO Combined average minor volume exceeds 140 (200 \* 70%) SATISFIED = NO Hr 7 Peak Hour Period Hr 1 Hr 2 Hr 3 Hr 4 Hr 5 Hr 6 Hr 8 TOTAL AVG. 7-8 8-9 12-1 1-2 2-3 3-4 4-5 5-6 VOL. VOL. 100 Major Street Vehicles 205 180 79 120 240 114 90 1128 141 Minor Street 16 7 Vehicles 24 38 18 25 36 8 172 22 Pedestrians 0 7 1 0 25 0 4 0 37 5 Subtotal 24 19 11 8 209 26 45 16 **50** 36 TOTAL AVERAGE HOURLY VOLUME 167 D. Where no single criterion is satisfied, but where Criteria B, C.1, and C.2 SATISFIED = NO are all satisfied to 80% of the minimum values. Criterion C.3 is excluded from this condition. Number of correctable accidents exceeds 4 (5 \* 80%) SATISFIED = NO Combined average vehicle volume exceeds 240 (300 \* 80%) SATISFIED = NO Combined average minor volume exceeds 160 (200 \* 80%) SATISFIED = NO **OPTION:** Other criteria that may be considered include: E. The need to control left-turn conflicts NO F. The need to control vehicle/pedestrian conflicts near locations that generate NO high pedestrian volumes; NO G. Locations where a road user, after stopping, cannot see conflicting traffic and is not able to reasonably safely negotiate the intersection unless conflicting cross traffic is also required to stop; and H. An intersection of two residential neighborhod collector (through) streets of NO similar design and operating characteristics where multiway stop control would

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improve traffic operational characteristics of the intersection.

### **ALL-WAY STOP WARRANTS**

Major Stree Minor Stree		B STREET ELLIS AVENUE			CALC CHK		JN RK		DATE DATE		7/2022 7/2022	
Scenario:		WEEKDAY		•								
CRITERIA	A SA	TISFIED FOR F	OUR-	WAY	STOF	CON	TROL	.:				YES
Any one o	f the fo	ollowing criteria n	nay wa	arrant f	our-wa	ay stop	contro	l:				
A. TRAFF	FIC SI	GNAL WARRAN	TED							SAT	ISFIED =	NO
Urgent nee	d for a	four-way stop as a	n interi	m mea	sure			NO				
B. ACCID											ISFIED =	NO
Number of	Correc	table Accidents		0		(5 or m	nore in a	a 12-m	onth pe	riod)		
C. MINIM	UM V	OLUMES								SAT	ISFIED =	NO
(total of	both a	olume entering the oproaches) average erage day, and							ches		ISFIED = /olume =	NO 82
intersed average	tion fro s at lea minor-	vehicular, pedestri om the minor street ast 200 units per ho street vehicular tra ır, but	appro	aches ( the san	total of ne 8 ho	both apurs, wit	oproach h an av	nes) erage	ng		ISFIED = /olume =	NO 59
3. If the 85th-percentile approach speed of the major-street traffic exceeds 65 km/h or exceeds 40 mph, the mimimum vehicular volume warrants are 70% of the above values.  SATISFIED = Critical Speed =							NO 34					
Combined average vehicle volume exceeds 210 (300 * 70%)  Combined average minor volume exceeds 140 (200 * 70%)  SATISFIED = SATISFIED =							NO NO					
Peak Hour	Period		Hr 1	Hr 2	Hr 3	Hr 4	Hr 5	Hr 6	Hr 7	Hr 8	TOTAL	AVG.
	. 1		7-8	8-9	1-2	2-3	3-4	4-5	5-6	6-7	VOL.	VOL.
Major Stree		Vehicles	83	85	75	117	94	70	78	57	659	82
Minor Stree	Σ	Vehicles Pedestrians	112	77 3	37 1	109 16	32 8	23 12	28 0	12 0	430 42	54
		Subtotal	114	80	38	125	40	35	28	12	472	5 59
		Subiolai	114	80		AL AVE					4/2	141
	atisfie	gle criterion is sa d to 80% of the m dition.								SAT	ISFIED =	NO
Combine	ed avei	rectable accidents rage vehicle volum rage minor volume	e exce	eds 240	300 3					SAT	ISFIED = ISFIED = ISFIED =	NO NO NO
OPTION: Other cr	iteria tł	nat may be conside	ered inc	clude:								
E. The	need t	o control left-turn	confli	cts								YES
		o control vehicle/ trian volumes;	pedest	rian co	onflicts	near l	ocation	s that	genera	ate		YES
G. Loca	ations	where a road use										NO
cros	s traff	to reasonably sa ic is also required	l to sto	p; and								
simil	ar des	ction of two resid ign and operating affic operational c	, chara	cterist	ics wh	ere mu	ltiway	stop co				NO

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# Appendix G

Traffic Signal Warrants Worksheet

Jurisdiction: CALC JN DATE 12/7/2022 **CITY OF PERRIS** 

CHK RK DATE 12/7/2022 Major Street: **B STREET** 

Minor Street: **MONTANOSO LANE** 

Traffic Condition: **EXISTING CONDITIONS** 

> Roadway Class Major Approach Lanes =

Critical speed of major street = Urban (U) Minor Approach Lanes = 36 mph

### **WARRANT 1 - Eight Hour Vehicular Volume**

**Condition A - Minimum Vehicle Volume** 

100% SATISFIED = NO

Minimum Major Approach Volume = 500 80% SATISFIED = NO

Minimum Minor Approach Volume =

150

Minimum Requirements (80% shown in Brackets) U R U Hr 1 Hr 2 Hr 6 Hr 8 % R Hr 3 Hr 4 Hr 5 Hr 7 Approach Lanes 1 2 or More 7-8 8-9 12-1 1-2 2-3 3-4 4-5 5-6 Satisfy **Both Approaches** 500 350 600 420 Major Street (400)(280)(480)(336)205 180 79 120 240 114 90 100 NONE Highest Approach 150 105 200 140

24

12

11

14

29

### **Condition B - Interruption of Continuous Traffic**

(84)

(160)

(120)

Minor Street

100% SATISFIED = NO

Minimum Major Approach Volume = 750

20

(112)

NO

8

**NONE** 

Minimum Minor Approach Volume = 75 80% SATISFIED =

6

	Minir	mum R	equiren	nents									
	(80%	shown	in Brad	ckets)									
	U	R	U	R	Hr 1	Hr 2	Hr 3	Hr 4	Hr 5	Hr 6	Hr 7	Hr 8	%
Approach Lanes		1	2 or	More	7-8	8-9	12-1	1-2	2-3	3-4	4-5	5-6	Satisfy
Both Approaches	750	525	900	630									
Major Street	(600)	(420)	(720)	(504)	205	180	79	120	240	114	90	100	NONE
Highest Approach	75	53	100	70									
Minor Street	(60)	(42)	(80)	(56)	20	24	12	11	14	29	6	8	NONE

### Combination of Conditions A & B

SATISFIED = NO

REQUIREMENT	WARRANT	FULFILLED
TWO WARRANTS	MINIMUM VEHICULAR VOLUME	NO
SATISFIED 80%	2. INTERRUPTION OF CONTINUOUS TRAFFIC	NO

### **WARRANT 2 - Four Hour Vehicular Volume**

SATISFIED = NO

Record hourly vehicular volumes for four hours.

APPROACH LANES	Number of Lanes	2-3	7-8	8-9	3-4
Both Approaches - Major Street	1	240	205	180	114
Highest Approach - Minor Street	1	14	20	24	29

### **WARRANT 3 - Peak Hour**

PART A or PART B SATISFIED = NO

PART A SATISFIED = NO

(All parts 1, 2, and 3 below must be satisfied)

- 1. The total delay experienced for traffic on one minor street approach controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach and five vehicle-hours for a two-lane approach; AND
- 2. The volume on the same minor street approach equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; <u>AND</u>
- 3. The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches.

PART B SATISFIED = NO

Approach Lanes	Number of Lanes	2-3	7-8	8-9	3-4
Both Approaches - Major Street	1	240	205	180	114
Highest Approach - Minor Street	1	14	20	24	29

The plotted points for vehicles per hour on major streets (both approaches) and the corresponding per hour higher volume vehicle minor street approach (one direction only) for one hour (any consecutive 15 minute period) fall above the applicable curves in MUTCD Figure 4C-3 or 4C-4.

# WARRANT 4 - Pedestrian Volume (All Parts Must Be Satisfied)

100% SATISFIED = NO

REQUIREMENT	Fulfilled
Pedestrian volume crossing the major street is 100 or more for each of any four hours <u>OR</u> is 190 or more during any one hour;	N
AND, There are less than 60 gaps per hour in the major street traffic stream of adequate length for pedestrians to cross;	N
AND, The distance to the nearest traffic signal along the major street is greater than 90m (300ft);	
AND, The new traffic signal will not seriously disrupt progressive traffic flow on the major street.	N

The satisfaction of a warrant is not necessarily justification for a signal. Delay, congestion, confusion, or other evidence of the need for right-of-way assignment must be shown.

WARRANT 5 - School Crossing (All Parts Must Be Satisfied)

100% SATISFIED = NO

PART A SATISFIED = NO

EACH OF TWO HO	OURS>	7-8	2-3
Gaps vs	Minutes Children Using Crossing	60	60
Minutes	Number of Adequate Gaps	60	60
School Age Pedest	rians Crossing Street	3	32

GAPS < MINUTES SATISFIED = NO

CHILDREN > 20/HR SATISFIED = NO

### PART B

Is Nearest Controlled Crossing More Than 180 m (600 ft) away?

Υ

# **WARRANT 6 - Coordinated Signal System** (All Parts Must Be Satisfied)

100% SATISFIED = NO

MINIMUM REQUIREMENTS		FULFILLED					
>300 m (1000 ft)	North East	0	ft - ft	South _ West	0	ft ft	NO
>300 III (1000 II)	Easi	U	- "	west _	U	, 11	NO
On one way isolated streets or signals are so far apart that ne			•	•		•	NO NO
On 2-way streets where adjace speed control proposed signals	•			, ,		ng and	NO

# WARRANT 7 - Crash Warrant (All Parts Must Be Satisfied)

100% SATISFIED = NO

REQUIREMENTS	WARRANT	FULFILLED			
One Warrant	Warrant 1 - Minimum Vehicular Volume				
Satisfied	OR	N			
80%	Warrant 2 - Interruption of Continuous Traffic				
Signal will not seriously disrupt	prgressive traffic flow.	N			
Adequate Trial of Less Restrictive Remedies Has Failed to Reduce Accident Frequency					
Acc. Within a 12 Month Period	Susceptible for Corr. & Involving Injury or ≥ \$500				
Damage					
MINIMUM REQUIREMENTS	NUMBER OF ACCIDENTS	N			
5 or More	0				

# WARRANT 8 - Roadway Network (All Parts Must Be Satisfied)

100% SATISFIED = NO

MINIMUM VOLUME REQUIREMENTS	ENTERING VOLUMES - A	ALL APPROAC	CHES	FULFILLED
	Durring Typical Weekday Peak Hour	265	Veh/Hr.	
1000 Veh/Hr	OR			NO
	During Each of Any 5 Hrs. of a Sat. and/or Sun	0	Veh/Hr.	
CHARACTERISTICS OF MAJOR ROUTES		MAJOR ST.	MINOR ST.	
Hwy System Serving as Prince	ipal Network for Through Traffic	N	N	
Rural or Suburban Highway ( Traversing a City	Outside Of, Entering, or	N	N	
Appears as Major Route on a	n Official Plan	N	N	
Any Major	Route Characteristics Met, Both	L Streets	<u> </u>	NO

Jurisdiction: CITY OF PERRIS CALC JN DATE 12/7/2022

Major Street: B STREET CHK RK DATE 12/7/2022

Minor Street: **ELLIS AVENUE** 

Traffic Condition: **EXISTING CONDITIONS** 

Roadway Class Major Approach Lanes = 1

Critical speed of major street = 34 mph Urban (U) Minor Approach Lanes = 1

### **WARRANT 1 - Eight Hour Vehicular Volume**

**Condition A - Minimum Vehicle Volume** 

100% SATISFIED = NO

Minimum Major Approach Volume = 500

80% SATISFIED = NO

Minimum Minor Approach Volume = 150

Minimum Requirements (80% shown in Brackets)

	U	R	U	R	Hr 1	Hr 2	Hr 3	Hr 4	Hr 5	Hr 6	Hr 7	Hr 8	%
Approach Lanes	-	1	2 or	More	7-8	8-9	1-2	2-3	3-4	4-5	5-6	6-7	Satisfy
Both Approaches	500	350	600	420									
Major Street	(400)	(280)	(480)	(336)	83	85	75	117	94	70	78	57	NONE
Highest Approach	150	105	200	140									
Minor Street	(120)	(84)	(160)	(112)	112	77	37	109	32	23	28	12	NONE

### **Condition B - Interruption of Continuous Traffic**

100% SATISFIED = **NO** 

Minimum Major Approach Volume = 750

80% SATISFIED = NO

Minimum Minor Approach Volume = 75

	Minir	mum R	equiren	nents									
	(80%	shown	in Bra	ckets)									
	U	R	U	U R I		Hr 2	Hr 3	Hr 4	Hr 5	Hr 6	Hr 7	Hr 8	%
Approach Lanes		1	2 or	2 or More <b>7</b> -		8-9	1-2	2-3	3-4	4-5	5-6	6-7	Satisfy
Both Approaches	750	525	900	630									
Major Street	(600)	(420)	(720)	(504)	83	85	75	117	94	70	78	57	NONE
Highest Approach	75	53	100	70									
Minor Street	(60)	(42)	(80)	(56)	112	77	37	109	32	23	28	12	NONE

### Combination of Conditions A & B

SATISFIED = NO

REQUIREMENT	WARRANT	FULFILLED
TWO WARRANTS	MINIMUM VEHICULAR VOLUME	NO
SATISFIED 80%	2. INTERRUPTION OF CONTINUOUS TRAFFIC	NO

### **WARRANT 2 - Four Hour Vehicular Volume**

SATISFIED = NO

N

Record hourly vehicular volumes for four hours.

APPROACH LANES	Number of Lanes	2-3	7-8	8-9	3-4
Both Approaches - Major Street	1	117	83	85	94
Highest Approach - Minor Street	1	109	112	77	32

### **WARRANT 3 - Peak Hour**

PART A or PART B SATISFIED = NO

PART A SATISFIED = NO

(All parts 1, 2, and 3 below must be satisfied)

- 1. The total delay experienced for traffic on one minor street approach controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach and five vehicle-hours for a two-lane approach; AND
- 2. The volume on the same minor street approach equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; <u>AND</u>
- 3. The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches.

PART B SATISFIED = NO

Approach Lanes	Number of Lanes	2-3	7-8	8-9	3-4
Both Approaches - Major Street	1	117	83	85	94
Highest Approach - Minor Street	1	109	112	77	32

The plotted points for vehicles per hour on major streets (both approaches) and the corresponding per hour higher volume vehicle minor street approach (one direction only) for one hour (any consecutive 15 minute period) fall above the applicable curves in MUTCD Figure 4C-3 or 4C-4.

# WARRANT 4 - Pedestrian Volume (All Parts Must Be Satisfied)

100% SATISFIED = NO

REQUIREMENT	Fulfilled
Pedestrian volume crossing the major street is 100 or more for each of any four hours <u>OR</u> is 190 or more during any one hour;	N
AND, There are less than 60 gaps per hour in the major street traffic stream of adequate length for pedestrians to cross;	N
AND, The distance to the nearest traffic signal along the major street is greater than 90m (300ft);	
AND, The new traffic signal will not seriously disrupt progressive traffic flow on the major street.	N

The satisfaction of a warrant is not necessarily justification for a signal. Delay, congestion, confusion, or other evidence of the need for right-of-way assignment must be shown.

WARRANT 5 - School Crossing (All Parts Must Be Satisfied)

100% SATISFIED = NO

PART A SATISFIED = NO

EACH OF TWO HO	OURS>	7-8	2-3
Gaps vs	Minutes Children Using Crossing	60	60
Minutes	Number of Adequate Gaps	60	60
School Age Pedest	5	25	

GAPS < MINUTES SATISFIED = NO

CHILDREN > 20/HR SATISFIED = NO

### PART B

Is Nearest Controlled Crossing More Than 180 m (600 ft) away?

Υ

# **WARRANT 6 - Coordinated Signal System** (All Parts Must Be Satisfied)

100% SATISFIED = NO

MINIMUM REQUIREMENTS		FULFILLED					
>300 m (1000 ft)	North East	0	ft - ft	South _ West	0	ft ft	NO
>300 III (1000 II)	Easi	U	- "	west _	U	, 11	NO
On one way isolated streets or signals are so far apart that ne			•	•		•	NO NO
On 2-way streets where adjace speed control proposed signals	•			, ,		ng and	NO

# WARRANT 7 - Crash Warrant (All Parts Must Be Satisfied)

100% SATISFIED = NO

REQUIREMENTS	WARRANT	FULFILLED			
One Warrant	Warrant 1 - Minimum Vehicular Volume				
Satisfied	OR	N			
80%	Warrant 2 - Interruption of Continuous Traffic				
Signal will not seriously disrupt	N				
Adequate Trial of Less Restric	tive Remedies Has Failed to Reduce Accident Frequency	N			
Acc. Within a 12 Month Period	Susceptible for Corr. & Involving Injury or ≥ \$500				
Damage					
MINIMUM REQUIREMENTS	N				
5 or More 0					

# WARRANT 8 - Roadway Network (All Parts Must Be Satisfied)

100% SATISFIED = NO

MINIMUM VOLUME REQUIREMENTS	ENTERING VOLUMES - A	ALL APPROAC	CHES	FULFILLED
	Durring Typical Weekday Peak Hour	226	Veh/Hr.	
1000 Veh/Hr	OR			NO
	During Each of Any 5 Hrs. of a Sat. and/or Sun	0	Veh/Hr.	
CHARACTERISTIC	S OF MAJOR ROUTES	MAJOR ST.	MINOR ST.	
Hwy System Serving as Prince	cipal Network for Through Traffic	N	N	
Rural or Suburban Highway ( Traversing a City	Outside Of, Entering, or	N	N	
Appears as Major Route on a	n Official Plan	N	N	
Any Major	Route Characteristics Met, Both	Streets	1	NO

# **Appendix H**

Federal Highway Administration (FHWA) Marked Crosswalk Criteria

### B Street at Montanoso Lane | B Street Crossing

Guide for Improving Pedestrian Safety at Uncontrolled Crossing Locations

Table 1 provides initial countermeasure options for various roadway conditions. Each matrix cell indicates possibilities that may be appropriate for designated pedestrian crossings. Not all of the countermeasures listed in the matrix cell should necessarily be installed at a crossing.

For multi-lane roadway crossings with vehicle AADTs exceeding 10,000, a marked crosswalk alone is typically insufficient (Zegeer, 2005). Under such conditions, more substantial crossing improvements (such as the refuge island, PHB, and RRFB) are also needed to prevent an increase in pedestrian crash potential.

Table 1. Application of pedestrian crash countermeasures by roadway feature.

		Posted Speed Limit and AAI														ΛAC	DT (B Street X-Walk)										
		٧	ehic	le A	AD.	T <9	P,000 Vehicle AADT 9,000–15,000									0		5,00	00								
Roadway Configuration	≤3				35 mph		≥4	0 m	nph	≤3	≤30 mph		35	5 m	ph	≥4	0 m	ph	≤3	0 m	nph	35	m	ph	≥40		ph
2 lanes (1 lane in each direction)	4	2 5	6	<b>0</b> 7	5	6 9	1	5	6 <b>9</b>	4	5	6	<b>0</b> 7	5	6 9	①	5	6 <b>9</b>	<b>0</b> 4 7	5	6	① 7	5	6 9	①	5	6 <b>©</b>
3 lanes with raised median (1 lane in each direction)	4	2 5	3	7	5	<b>છ</b>	1	5	<b>3</b>	① 4 7	5	3	1	5	<b>6</b> <b>0</b>		5	<b>3</b>	① 4 7	5	<b>છ</b> 9	① •	5	<b>6</b> <b>0</b>	①	5	<b>3</b> <b>9</b>
3 lanes w/o raised median (1 lane in each direction with a two-way left-turn lane)	<b>0</b> 4 7	2 5	3 6 9	7	5	<b>6</b> 9	①	5	<b>3</b> 6 <b>9</b>	① 4 7	5	3 6 9	1	5	<b>3</b> 6 <b>9</b>	①	5	<b>3</b> 6 <b>0</b>	① 4 7	5	<b>③</b> 6 9	①	5	<b>3</b> 6 <b>9</b>	① 5	6	<b>8</b> <b>9</b>
4+ lanes with raised median (2 or more lanes in each direction)	7	5 8	9	7	5 8	<b>③</b> 9	①	5 8	<b>3</b>	① 7	5 8	9	①	5 8	<b>③</b>	①	5	<b>3</b>	1	5 8	<b>©</b>	①	5 8	<b>3</b>	①	5	<b>8</b> <b>9</b>
4+ lanes w/o raised median (2 or more lanes in each direction)	7	5 8	<b>6</b> 9	① 7	5 8	<b>3 6 9</b>	①	5 8	3 3 9	① 7	5 8	<b>3 3 9</b>	①	5 8	3 3 9	①		<b>3</b> <b>6</b> <b>9</b>	①	5 8	3 3 9	①	5 8	3 3 9	①	5	8 6 0

Given the set of conditions in a cell,

- Signifies that the countermeasure is a candidate treatment at a marked uncontrolled crossing location.
- Signifies that the countermeasure should always be considered, but not mandated or required, based upon engineering judgment at a marked uncontrolled crossing location.
- Signifies that crosswalk visibility enhancements should always occur in conjunction with other identified countermeasures.\*

The absence of a number signifies that the countermeasure is generally not an appropriate treatment, but exceptions may be considered following engineering judgment.

- High-visibility crosswalk markings, parking restrictions on crosswalk approach, adequate nighttime lighting levels. and crossing warning signs
- 2 Raised crosswalk
- Advance Yield Here To (Stop Here For) Pedestrians sign and yield (stop) line
- In-Street Pedestrian Crossing sign
- Curb extension
- Pedestrian refuge island
- Rectangular Rapid-Flashing Beacon (RRFB)\*\*
- 8 Road Diet
- 9 Pedestrian Hybrid Beacon (PHB)\*\*

Select Countermeasure(s)

<sup>\*</sup>Refer to Chapter 4, 'Using Table 1 and Table 2 to Select Countermeasures,' for more information about using multiple countermeasures

<sup>\*\*</sup>It should be noted that the PHB and RRFB are not both installed at the same crossing location.

This table was developed using information from: Zegeer, C.V., J.R. Stewart, H.H. Huang, P.A. Lagerwey, J. Feaganes, and B.J. Campbell. (2005). Safety effects of marked versus unmarked crosswalks at uncontrolled locations: Final report and recommended guidelines. FHWA, No. FHWA-HRT-04-100, Washington, D.C.; FHWA. Manual on Uniform Traffic Control Devices, 2009 Edition. (revised 2012). Chapter 4F, Pedestrian Hybrid Beacons. FHWA, Washington, D.C.; FHWA. Crash Modification Factors (CMF) Clearinghouse. http://www.cmfclearinghouse.org/; FHWA. Pedestrian Safety Guide and Countermeasure Selection System (PEDSAFE). http://www.pedbikesafe.org/PEDSAFE/; Zegeer, C., R. Srinivasan, B. Lan, D. Carter, S. Smith, C. Sundstrom, N.J. Thirsk, J. Zegeer, C. Lyon, E. Ferguson, and R. Van Houten. (2017). NCHRP Report 841: Development of Crash Modification Factors for Uncontrolled Pedestrian Crossing Treatments. Transportation Research Board, Washington, D.C.; Thomas, Thirsk, and Zegeer. (2016). NCHRP Synthesis 498: Application of Pedestrian Crossing Treatments for Streets and Highways. Transportation Research Board, Washington, D.C.; and personal interviews with selected pedestrian safety practitioners.

### B Street at Ellis Avenue | Ellis Avenue Crossing

Guide for Improving Pedestrian Safety at Uncontrolled Crossing Locations

Table 1 provides initial countermeasure options for various roadway conditions. Each matrix cell indicates possibilities that may be appropriate for designated pedestrian crossings. Not all of the countermeasures listed in the matrix cell should necessarily be installed at a crossing.

For multi-lane roadway crossings with vehicle AADTs exceeding 10,000, a marked crosswalk alone is typically insufficient (Zegeer, 2005). Under such conditions, more substantial crossing improvements (such as the refuge island, PHB, and RRFB) are also needed to prevent an increase in pedestrian crash potential.

Table 1. Application of pedestrian crash countermeasures by roadway feature.

												_										_					
		Posted Speed Limit and AA														AL	ADT (Ellis Avenue X-Walk)										
		٧	ehic	le A	ΑD	T <9	9,00	0		Vehicle AADT 9,000–15,000								Vehicle AADT >15,000									
Roadway Configuration	≤3	·			35 mph ≥		≥4	0 m	nph	≤3	≤30 mph		35	5 m	ph	≥4	0 m	ph	≤3	0 m	nph	35	i m	ph	≥40	0 m	ɔh
2 lanes	<b>0</b>	2 5	6	0	5	6	①	5	6	<b>0</b>	5	6	0	5	6	①	5	6	<b>0</b>	5	6	0	5	6	①	5	6
(1 lane in each direction)	4	<u> </u>	0	7		9	0		0	4	<u> </u>	0	7	<u> </u>	9	0	_	<b>O</b>	7	<u> </u>	9	7	<u> </u>	9		-	0 <b>0</b>
3 lanes with raised median	4	2 5	3	0	5	8	①	5	8	① 4	5	3	①	5	8	①	5	8	① 4	5	8	①	5	8	①	5	8
(1 lane in each direction)	_			7		9	0		0	7		9	0		0	0	-	Ø	7		9	0		0		-	0
3 lanes w/o raised median	0	2	3	0		8	0		8	0		3	①		8	①		3	①		0	①		8	①	(	8
(1 lane in each direction with a	4	5	6		5	6		5	6	4	5	6		5	6		5	6	4	5	6		5	6	5	6	
two-way left-turn lane)	7		9	7		9			0	7		9	0		0			0	7		9			0			0
4+ lanes with raised median	0		0	0		8	①		8	0		0	①		8	①		3	①		8	①		8	①	(	8
(2 or more lanes in each direction)		5			5			5			5			5			5			5			5			5	
(=,	7	8	9	7	8	9		8	0	7	8	9	0	8	0		8	0	0	8	0		8	0		8	0
A. Janes w/s unional modium	0		0	①		8	①		3	①		8	①		8	①		8	①		0	①		3	①		8
4+ lanes w/o raised median (2 or more lanes in each direction)		5	6		5	0		5	6		5	0		5	0		5	0		5	0		5	0		5	0
(2 of more failes in each affection)	7	8	9	7	8	9		8	0	7	8	9	0	8	0		8	0	0	8	0		8	0		8	0

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