Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	199	486

Ng Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

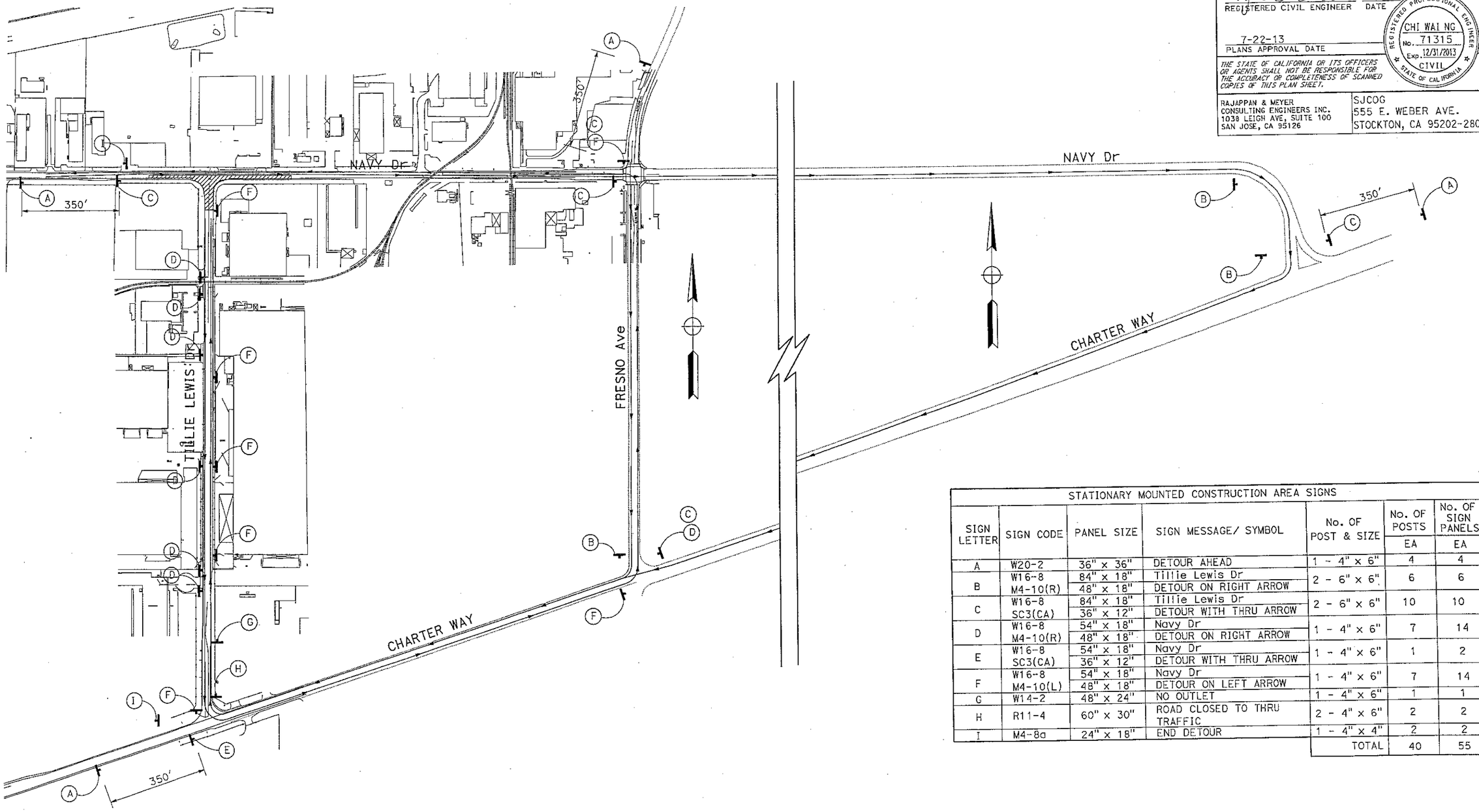
7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHI WAI NG
No. 71315
Exp. 12/31/2013
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE	PANEL SIZE	SIGN MESSAGE/ SYMBOL	No. OF POST & SIZE	No. OF POSTS EA	No. OF SIGN PANELS EA
A	W20-2	36" x 36"	DETOUR AHEAD	1 - 4" x 6"	4	4
B	W16-8	84" x 18"	Tillie Lewis Dr	2 - 6" x 6"	6	6
	M4-10(R)	48" x 18"	DETOUR ON RIGHT ARROW			
C	W16-8	84" x 18"	Tillie Lewis Dr	2 - 6" x 6"	10	10
	SC3(CA)	36" x 12"	DETOUR WITH THRU ARROW			
D	W16-8	54" x 18"	Navy Dr	1 - 4" x 6"	7	14
	M4-10(R)	48" x 18"	DETOUR ON RIGHT ARROW			
E	W16-8	54" x 18"	Navy Dr	1 - 4" x 6"	1	2
	SC3(CA)	36" x 12"	DETOUR WITH THRU ARROW			
F	W16-8	54" x 18"	Navy Dr	1 - 4" x 6"	7	14
	M4-10(L)	48" x 18"	DETOUR ON LEFT ARROW			
G	W14-2	48" x 24"	NO OUTLET	1 - 4" x 6"	1	1
H	R11-4	60" x 30"	ROAD CLOSED TO THRU TRAFFIC	2 - 4" x 6"	2	2
I	M4-8a	24" x 18"	END DETOUR	1 - 4" x 4"	2	2
				TOTAL	40	55

DETOUR PLAN

STAGE CONSTRUCTION

(STAGE 2A & 2C)

NO SCALE

DE-3

APPROVED FOR DETOUR WORK ONLY

REVISED BY	DATE REVISED
SUCHITA POTTA	
CHI WAI NG	

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
KEITH MEYER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 23-JUL-2013
TIME PLOTTED => 08:17

BORDER LAST REVISED 7/2/2010

USERNAME => s114640
DGN FILE => 10000002291mg003.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1455

PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	200	486

Ng Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHI WAI NG No. 71315 Exp. 12/31/2013 CIVIL STATE OF CALIFORNIA

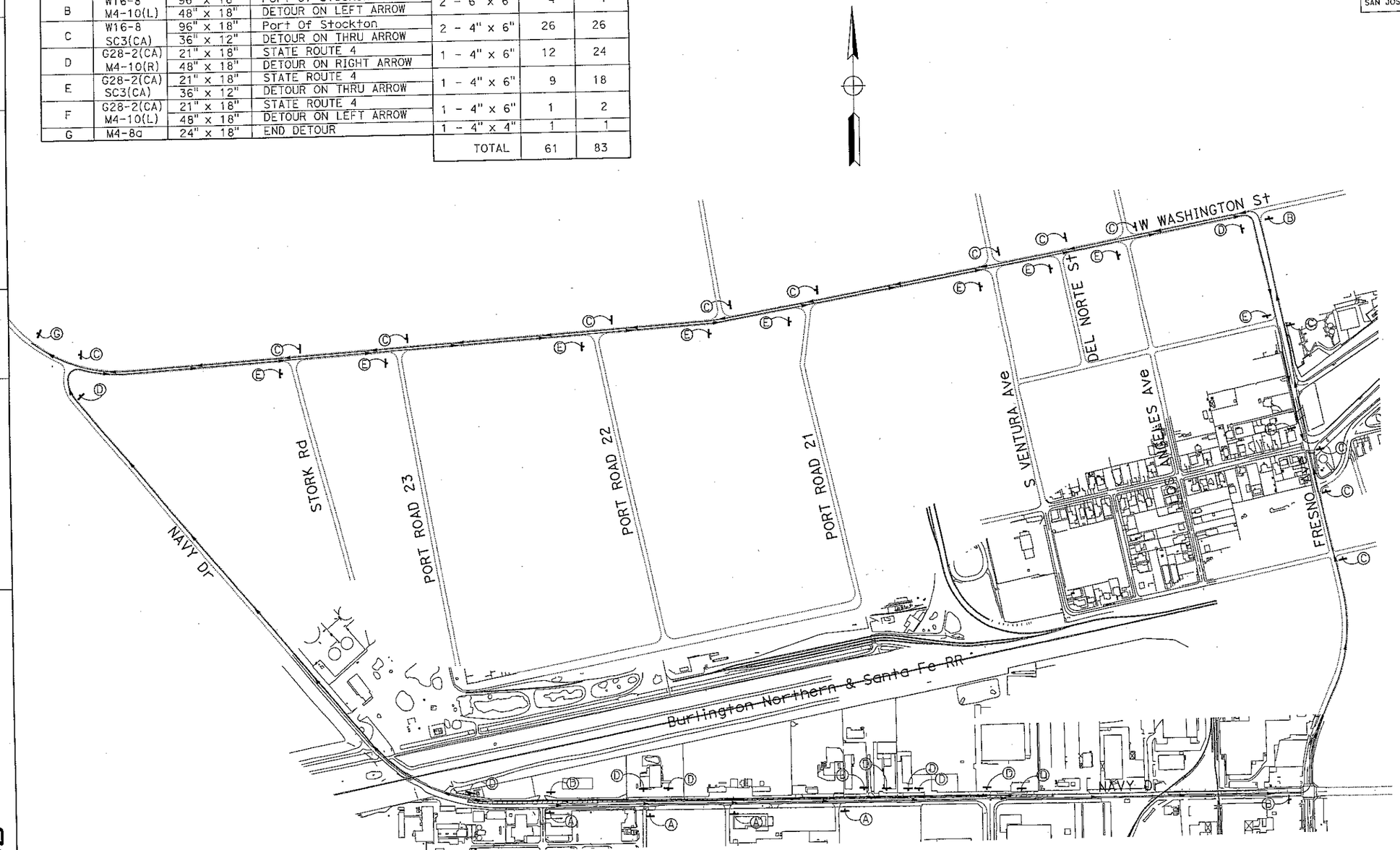
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE	PANEL SIZE	SIGN MESSAGE/ SYMBOL	No. OF POST & SIZE	No. OF POSTS EA	No. OF SIGN PANELS EA
A	W16-8	96" x 18"	Port Of Stockton	2 - 6" x 6"	8	8
	M4-10(R)	48" x 18"	DETOUR ON RIGHT ARROW			
B	W16-8	96" x 18"	Port Of Stockon	2 - 6" x 6"	4	4
	M4-10(L)	48" x 18"	DETOUR ON LEFT ARROW			
C	W16-8	96" x 18"	Port Of Stockton	2 - 4" x 6"	26	26
	SC3(CA)	36" x 12"	DETOUR ON THRU ARROW			
D	G28-2(CA)	21" x 18"	STATE ROUTE 4	1 - 4" x 6"	12	24
	M4-10(R)	48" x 18"	DETOUR ON RIGHT ARROW			
E	G28-2(CA)	21" x 18"	STATE ROUTE 4	1 - 4" x 6"	9	18
	SC3(CA)	36" x 12"	DETOUR ON THRU ARROW			
F	G28-2(CA)	21" x 18"	STATE ROUTE 4	1 - 4" x 6"	1	2
	M4-10(L)	48" x 18"	DETOUR ON LEFT ARROW			
G	M4-8a	24" x 18"	END DETOUR	1 - 4" x 4"	1	1
				TOTAL	61	83



DETOUR PLAN

STAGE CONSTRUCTION (STAGE 2B)

NO SCALE

DE-4

APPROVED FOR DETOUR WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER
CALCULATED-DESIGNED BY: SUCHITA POTTA
CHECKED BY: CHI WAI NG
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 23-JUL-2013
TIME PLOTTED => 08:17

BORDER LAST REVISED 7/2/2010
USERNAME => s114640
DGN FILE => 1000000229mg004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1455
PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	201	486

Na Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHI WAI NG
No. 71315
Exp. 12/31/2013
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

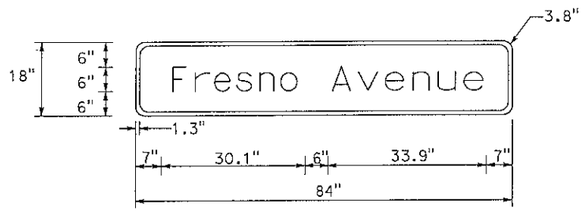
SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

ABBREVIATIONS:

UC UPPER CASE

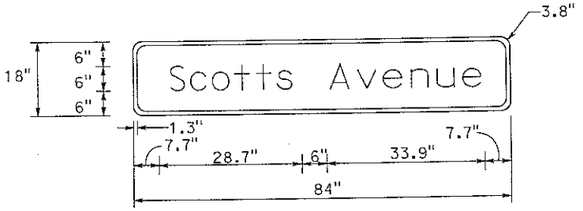
LC LOWER CASE

6 in UC
4.5 in LC



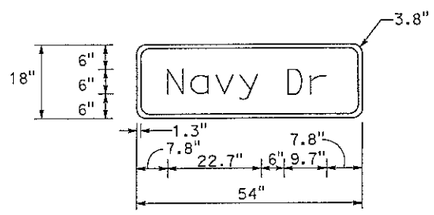
W16-8

6 in UC
4.5 in LC



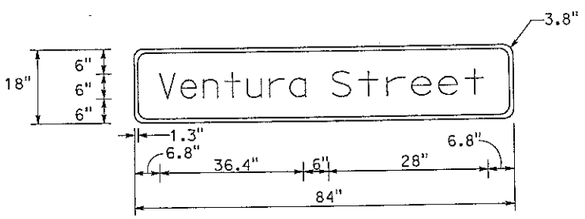
W16-8

6 in UC
4.5 in LC



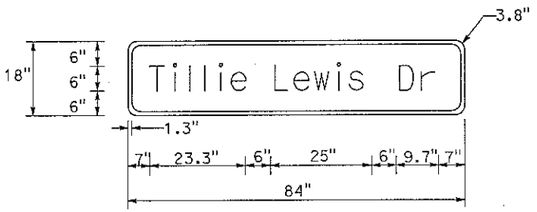
W16-8

6 in UC
4.5 in LC



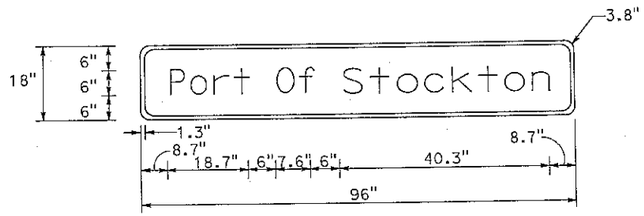
W16-8

6 in UC
4.5 in LC



W16-8

6 in UC
4.5 in LC



W16-8

APPROVED FOR DETOUR WORK ONLY

DETOUR PLAN
(SIGN DETAILS)
NO SCALE
DE-5

LAST REVISION 00-00-00 | DATE PLOTTED => 23-JUL-2013 | TIME PLOTTED => 08:17

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: SUCHITA POTTA
CHECKED BY: CHI WAI NG
CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => 1000000229mg005.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1455 | PROJECT NUMBER & PHASE 10000002291

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	204	486

Ng Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

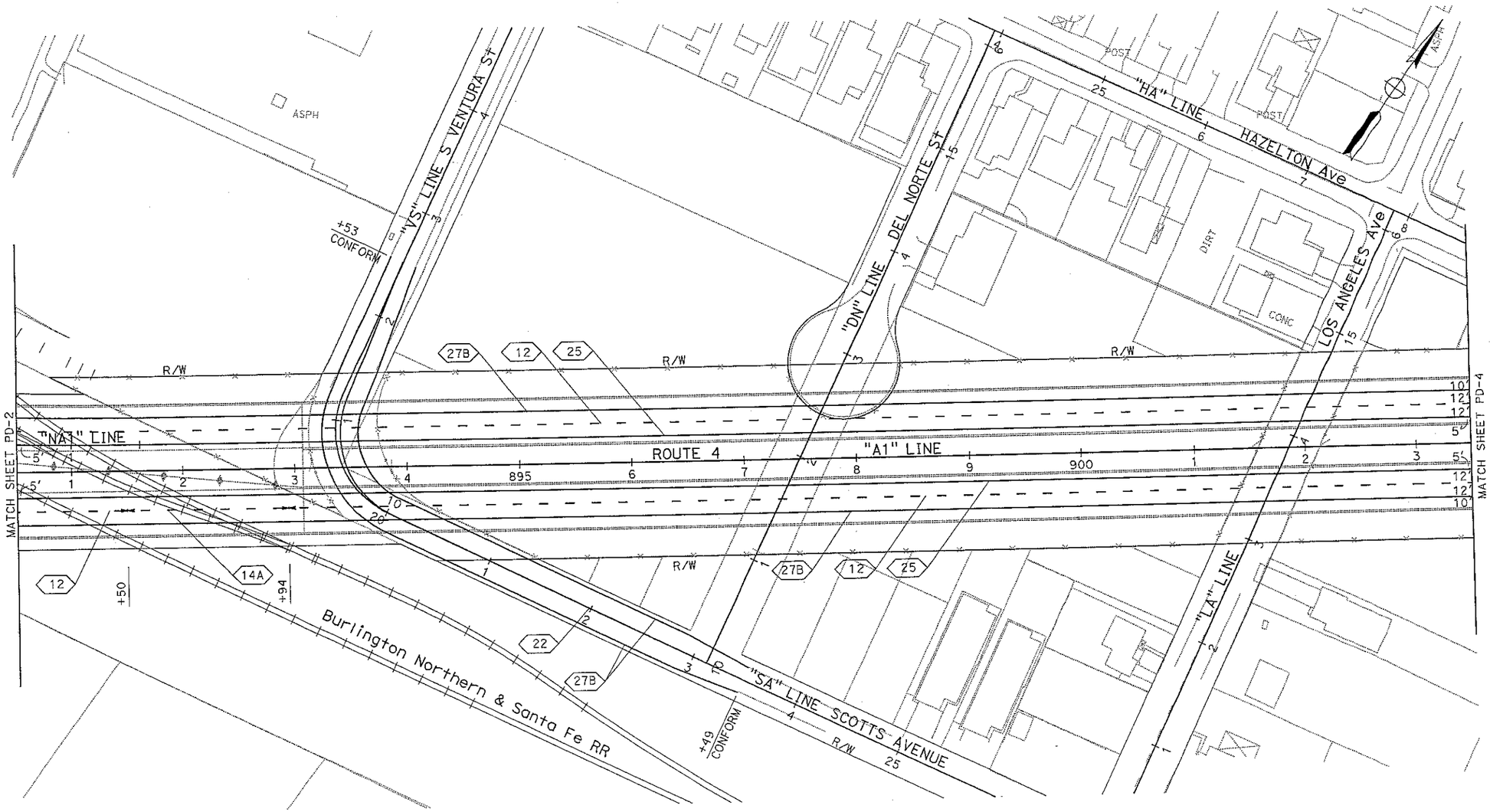
7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHI WAI NG
No. 71315
Exp. 12/31/2013
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-3

LAST REVISION 00-00-00 PLOTTED => 23-JUL-2013 TIME PLOTTED => 08:17

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	KEITH MEYER	CALCULATED-DESIGNED BY	BRENDAN CHAPMAN	REVISED BY
Caltrans			CHECKED BY	CHI WAI NG	DATE REVISED

BORDER LAST REVISED 7/2/2010

USERNAME => s114640
DGN FILE => 1000000229na003.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1455

PROJECT NUMBER & PHASE 10000002291

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	205	486

Na Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

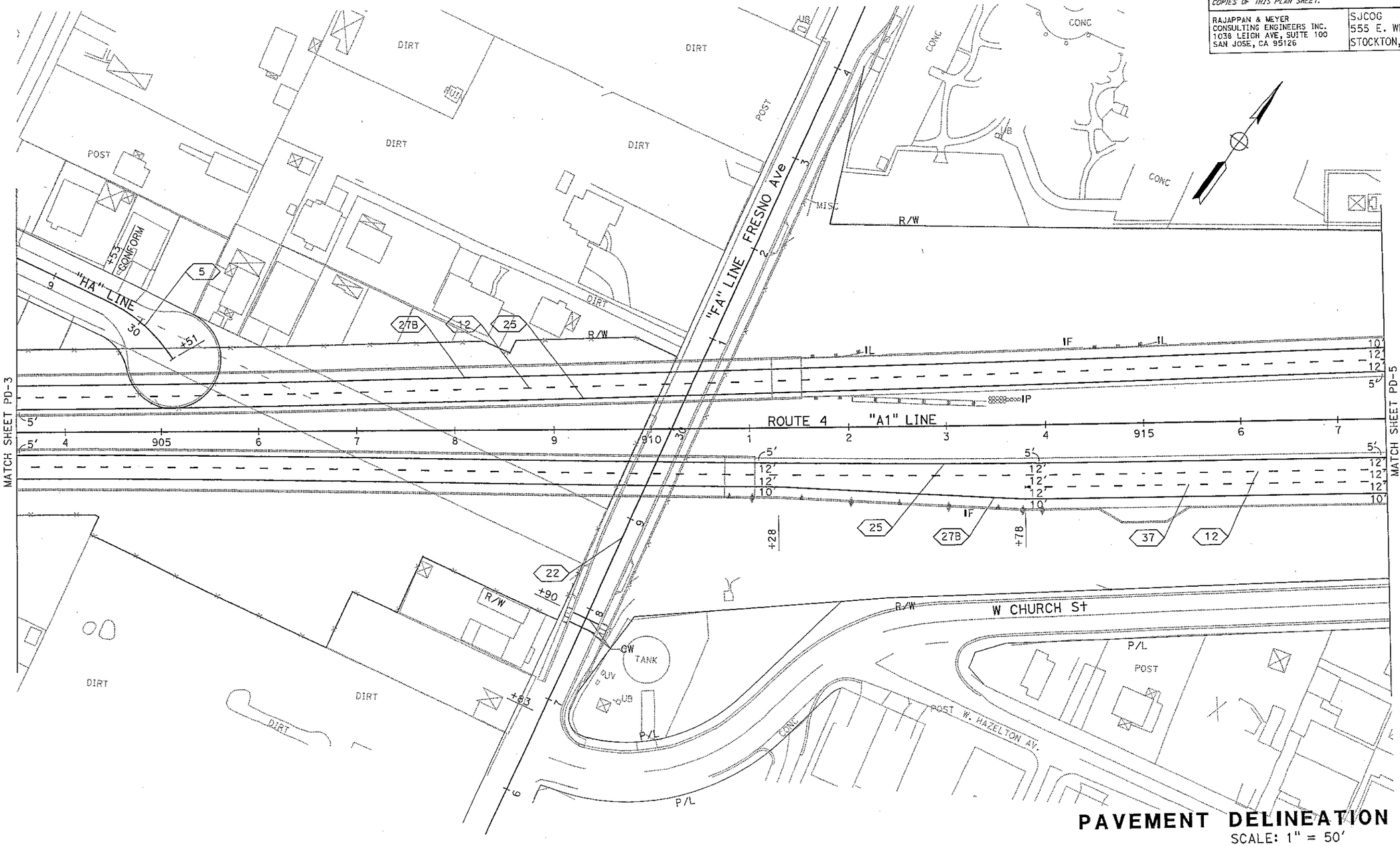
7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHI WAI NG
No. 71315
Exp. 12/31/2013
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-4

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

BRENDAN CHAPMAN — CALCULATED-DESIGNED BY
CHI WAI NG — CHECKED BY
KEITH MEYER — CONSULTANT FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

REVISED BY	DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 23-JUL-2013
TIME PLOTTED => 08:17

BORDER LAST REVISED 7/2/2010
USERNAME => s114640
DGN FILE => 1000000229na004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1455
PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	206	486

Ng Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHI WAI NG No. 71315 Exp. 12/31/2013 CIVIL STATE OF CALIFORNIA

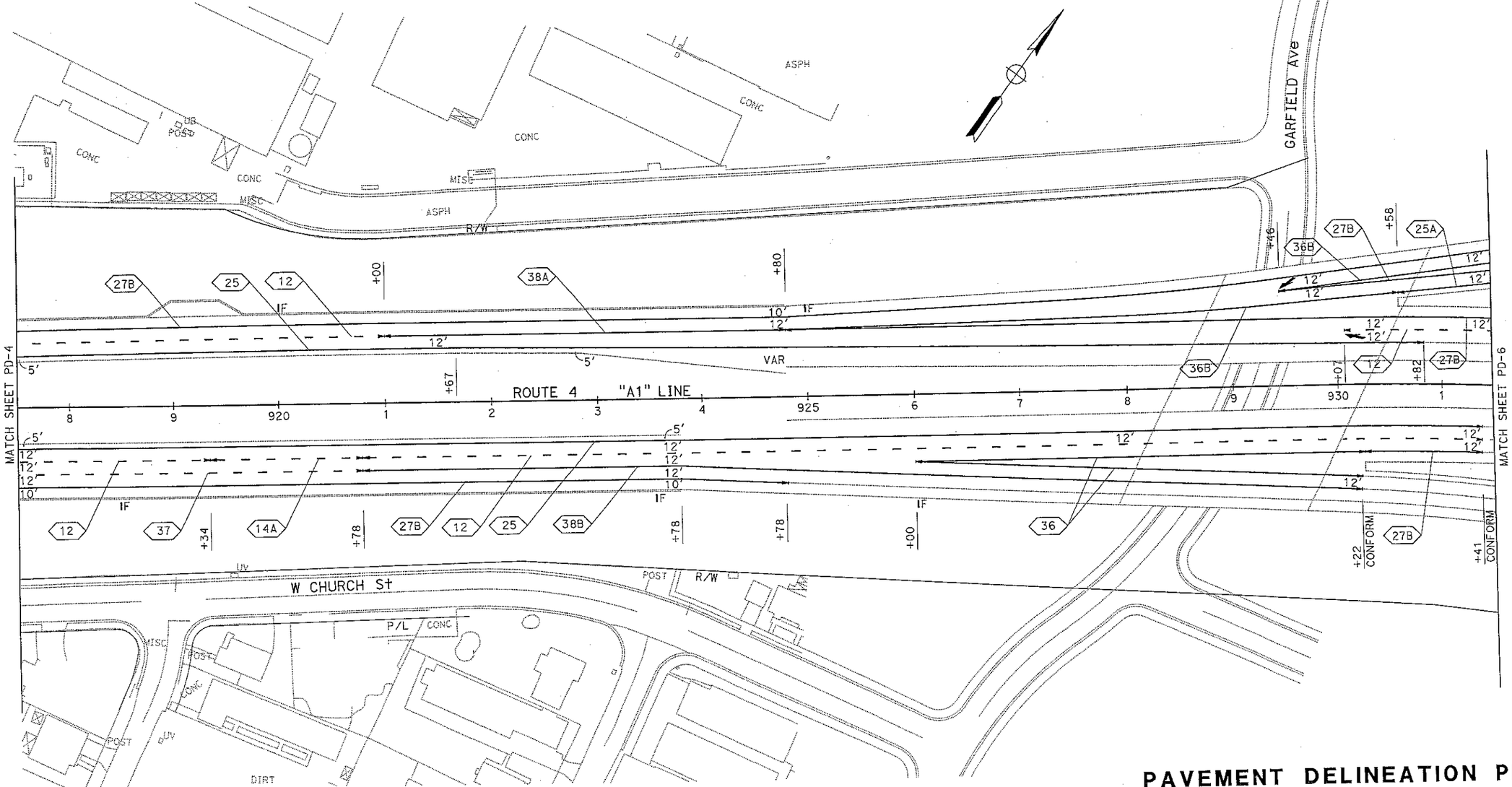
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-5

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER
CALCULATED-DESIGNED BY: BRENDAN CHAPMAN
CHECKED BY: CHI WAI NG
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 23-JUL-2013
TIME PLOTTED => 08:17

BORDER LAST REVISED 7/2/2010
USERNAME => s114640
DGN FILE => 1000000229na005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1455
PROJECT NUMBER & PHASE 10000002291

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	207	486

Ng Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

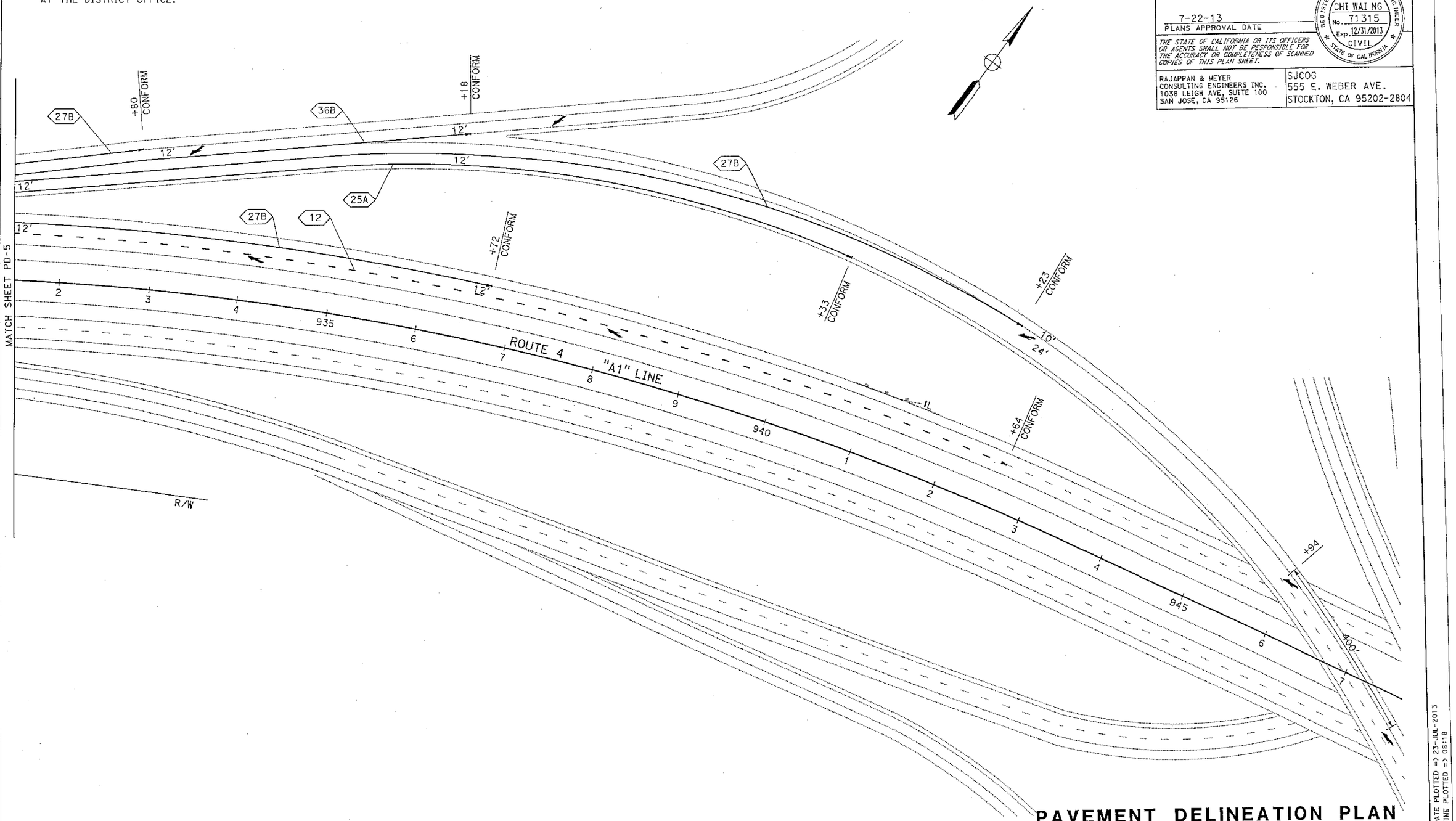
7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CHI WAI NG No. 71315 Exp. 12/31/2013 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE. SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-6

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

REVISED BY			
DATE REVISED			
CALCULATED-DESIGNED BY	BRENDAN CHAPMAN		
CHECKED BY	CHI WAI NG		
CONSULTANT FUNCTIONAL SUPERVISOR	KEITH MEYER		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans		

LAST REVISION 00-00-00 | DATE PLOTTED => 23-JUL-2013 | TIME PLOTTED => 08:18

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => 1000000229na006.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1455 | PROJECT NUMBER & PHASE 10000002291

PAVEMENT DELINEATION QUANTITIES

SHEET	STATION	THERMOPLASTIC PAVEMENT MARKING												OBJECT MARKER		DELINEATOR CLASS 1	
		SIGNAL	AHEAD	ONLY	FWY	CROSSWALK LINE	LIMIT LINE	TYPE I ARROW	TYPE II ARROW	TYPE III ARROW	TYPE IV ARROW	TYPE VI ARROW	RAILROAD CROSSING	TYPE L	TYPE P	TYPE F	TYPE G
		SQFT												EA	EA	EA	EA
PD-1	"NY" EB 36+50.00 TO 50+50.00			44	32		48	93	135	210							
	"NY" WB 36+50.00 TO 50+50.00			44	32		45	93		210	75	42					
	"NA" EB 871+41.35 TO 879+50.00											126		1		10	
	"NA" WB 871+41.35 TO 879+50.00		62				62			378					1	10	11
PD-2	"NA" WB 879+50.00 TO 880+00.00	64														1	
PD-4	"A1" EB 903+50.00 TO 917+50.00													2	1	2	
	"A1" WB 903+50.00 TO 917+50.00																
	"FA" 26+82.91 TO 34+74.63					60										3	
PD-5	"A1" EB 917+50.00 TO 931+50.00											84				2	
	"A1" WB 917+15.00 TO 931+50.00											294		1			
PD-6	"A1" WB 941+00.00 TO 942+00.00							62		84	15						
PD-7	"NY" EB 25+15.93 TO 36+50.00										15	168				3	
	"NY" WB 25+15.93 TO 36+50.00						45				15		70				
PD-8	"NY" EB 50+50.00 TO 64+50.00						37				45						
	"NY" WB 50+50.00 TO 64+50.00					80	76			146	30						
	"TL" NB 27+50.00 TO 32+01.58					72	34						70				
	"TL" SB 27+50.00 TO 32+01.58												70				
PD-9	"TL" NB 14+50.00 TO 27+50.00						28			168							
PD-10	"TL" SB 14+50.00 TO 10+00.00						24			126	30	84					
	"CW" EB 82+68.36 TO 59+00.00						35										
	"CW" WB 82+68.36 TO 32+01.58																
SUB - TOTAL		64	62	88	64	212	434	248	135	1322	225	798	210	4	2	31	11
TOTAL		3862												4	2	42	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	212	486

Vg Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHI WAI NG
No. 71315
Exp. 12/31/2013
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

PAVEMENT DELINEATION QUANTITIES

SHEET	LOCATION / STATION	DIRECTION	LENGTH	THERMOPLASTIC TRAFFIC STRIPE											PAVEMENT MARKER (RETROREFLECTIVE)									
				DETAIL 12	DETAIL 14A	DETAIL 25	DETAIL 25A	DETAIL 27B	DETAIL 36	DETAIL 36B	DETAIL 37	DETAIL 38	DETAIL 38A	DETAIL 38B	TYPE C		TYPE G				TYPE H	
															14A	37	12	36	36B	38	25	25A
				LF											EA							
PD-1	"NA" 871+41.35 TO "NA" 879+50.00	EB	809	842			691	687									18					29
	"NA" 871+41.35 TO "NA" 879+50.00	WB	809	1078			710	788				222					22			9		30
PD-2	"NA" 879+50.00 TO "A1" 890+50.00	EB	1100	1106		815	285	1112									23				17	12
	"NA" 879+50.00 TO "A1" 890+50.00	WB	1100	1077		797	286	1071									22				17	12
PD-3	"A1" 890+50.00 TO "A1" 903+50.00	EB	1300	1156	144	1300		1300							4		24				27	
	"A1" 890+50.00 TO "A1" 903+50.00	WB	1300	1300		1300		1300									27				27	
PD-4	"A1" 903+50.00 TO "A1" 917+50.00	EB	1400	1400		1400		1400			372					26	29				29	
	"A1" 903+50.00 TO "A1" 917+50.00	WB	1400	1400		1400		1400									29				29	
PD-5	"A1" 917+50.00 TO "A1" 931+50.00	EB	1400	1245	144	1391		843	847		328			943	4	24	26	36			29	
	"A1" 917+50.00 TO "A1" 931+50.00	WB	1400	493		1332	91	2278		785			380				11		33		28	4
PD-6	"A1" 931+50.00 TO "A1" 943+37.33	WB	1187	1136			947	1837		510							24		22			39
SUB - TOTAL				12233	288	9735	3010	14016	847	1295	700	222	380	943	8	50	255	36	55	9	203	126
TOTAL				43,669											742 *							

* INCLUDED IN PDQ-2 SHEET.

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY									
DATE REVISED									
BRENDAN CHAPMAN									
CALCULATED-DESIGNED BY	CHI WAI NG								
CHECKED BY	KEITH MEYER								
CONSULTANT FUNCTIONAL SUPERVISOR									
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION									

LAST REVISION 00-00-00 DI TIME_OTTED => 08:18 TTED => 23-JUL-2013

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => 1000000229pc001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1455 | PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,5	Var	213	486

Ng Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CHI WAI NG No. 71315 Exp. 12/31/2013 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

PAVEMENT DELINEATION QUANTITIES

SHEET	LOCATION / STATION	DIRECTION	LENGTH	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)													PAVEMENT MARKER (RETROREFLECTIVE)								
				DETAIL 5	DETAIL 12	DETAIL 22	DETAIL 25	DETAIL 27B	DETAIL 27M	DETAIL 29	DETAIL 32	DETAIL 37B	DETAIL 38	DETAIL 38A	DETAIL 38B	DETAIL 40	TYPE D			TYPE G						TYPE H
																	22	29	32	12	27M	37B	38	38B	25
				LF													EA								
PD-1	"NY" 36+50.00 TO "NY" 50+50.00	EB	1400		1280			926	50		1032		600			420			86	28	4		25		
	"NY" 36+50.00 TO "NY" 50+50.00	WB	1400		620		300	679	25	380	480		944			226		32	24	14	2		39		6
PD-3	"VS" 12+50.00 TO "SA" 23+50.00	SB	596			597		1194									50								
PD-4	"HA" 29+87.52 TO "HA" 30+53.23	EB	66	66																2					
	"FA" 26+82.91 TO "FA" 34+74.63	NB	792			781											66								
PD-7	"NY" 25+00.00 TO "NY" 36+50.00	EB	1150		475								370							10			15		
	"NY" 25+00.00 TO "NY" 36+50.00	WB	1150		51			180		700			280					76		2			12		
PD-8	"NY" 50+50.00 TO "NY" 64+50.00	EB	1400		152			770			318	135	100						14	4		10	4		
	"NY" 50+50.00 TO "NY" 64+50.00	WB	1400		420	176			50	1240	318		143			142	16	104	14	10	4		6		
	"TL" 27+50.00 TO "TL" 32+01.58	NB	452					216						215											
	"TL" 27+50.00 TO "TL" 32+01.58	SB	452			396		363									34								
PD-9	"TL" 14+50.00 TO "TL" 27+50.00	SB	1300			1300											108								
PD-10	"TL" 10+50.00 TO "TL" 14+50.00	SB	400			383							202				32						8		
	"CW" 762+50.00 TO "CW" 780+00.00	EB	1750			1400				154			675		245		118	14					28	20	
SUB - TOTAL				66	2998	5033	300	4328	125	2474	2148	135	3314	215	245	788	424	226	138	70	10	10	137	20	6
TOTAL				22,169													1041								
FROM SHEET PDQ-1																	742								
FROM SHEET THQ-1																	1471								
GRAND TOTAL				22,169													3254								

CALCULATED-DESIGNED BY: BRENDAN CHAPMAN
CHECKED BY: CHI WAI NG
CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER
REVISED BY | DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 23-JUL-2013 | TIME PLOTTED => 08:18

PAVEMENT DELINEATION QUANTITIES

PDQ-2

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => 1000000229nc002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1455 | PROJECT NUMBER & PHASE 10000002291

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	216	486

Va Chi Vai 12/24/12
REGISTERED CIVIL ENGINEER DATE

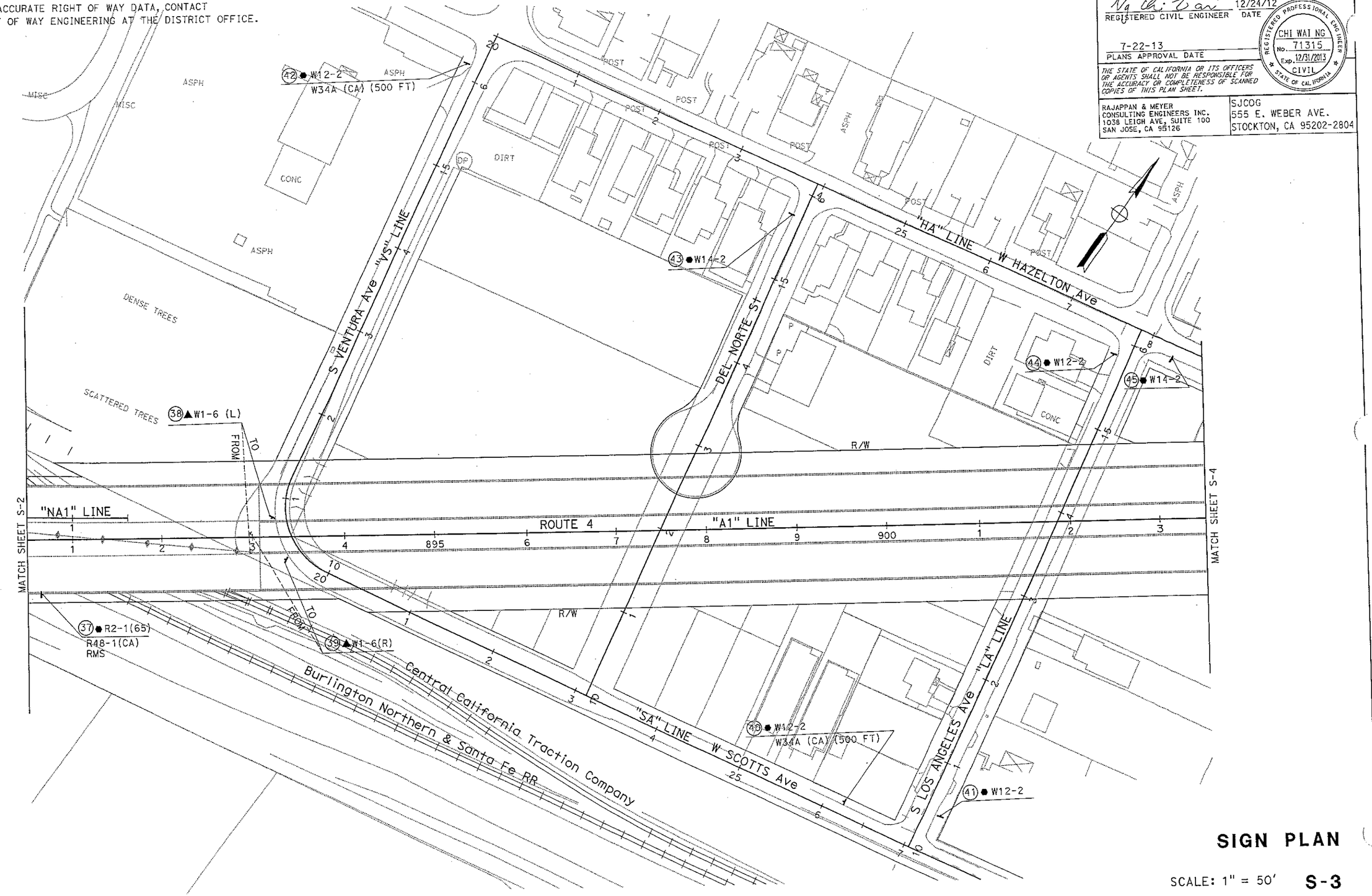
7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHI WAI NG
No. 71315
Exp. 12/31/2013
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804



SIGN PLAN

SCALE: 1" = 50' **S-3**

LAST REVISION 00-00-00 D. TIME PLOTTED => 08:41
JTTED => 23-JUL-2013

APPROVED FOR SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CALCULATED-DESIGNED BY	CHI WAI NG	REVISED BY	
Caltrans	CHECKED BY	SRILAKSHMI SAKHAMURI	DATE REVISED	
SUPERVISOR	CONSULTANT FUNCTIONAL SUPERVISOR	KEITH MEYER		

BORDER LAST REVISED 7/2/2010

USERNAME => s117606
DGN FILE => 10000002290a003.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1455

PROJECT NUMBER & PHASE 10000002291

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	217	486

Ng Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

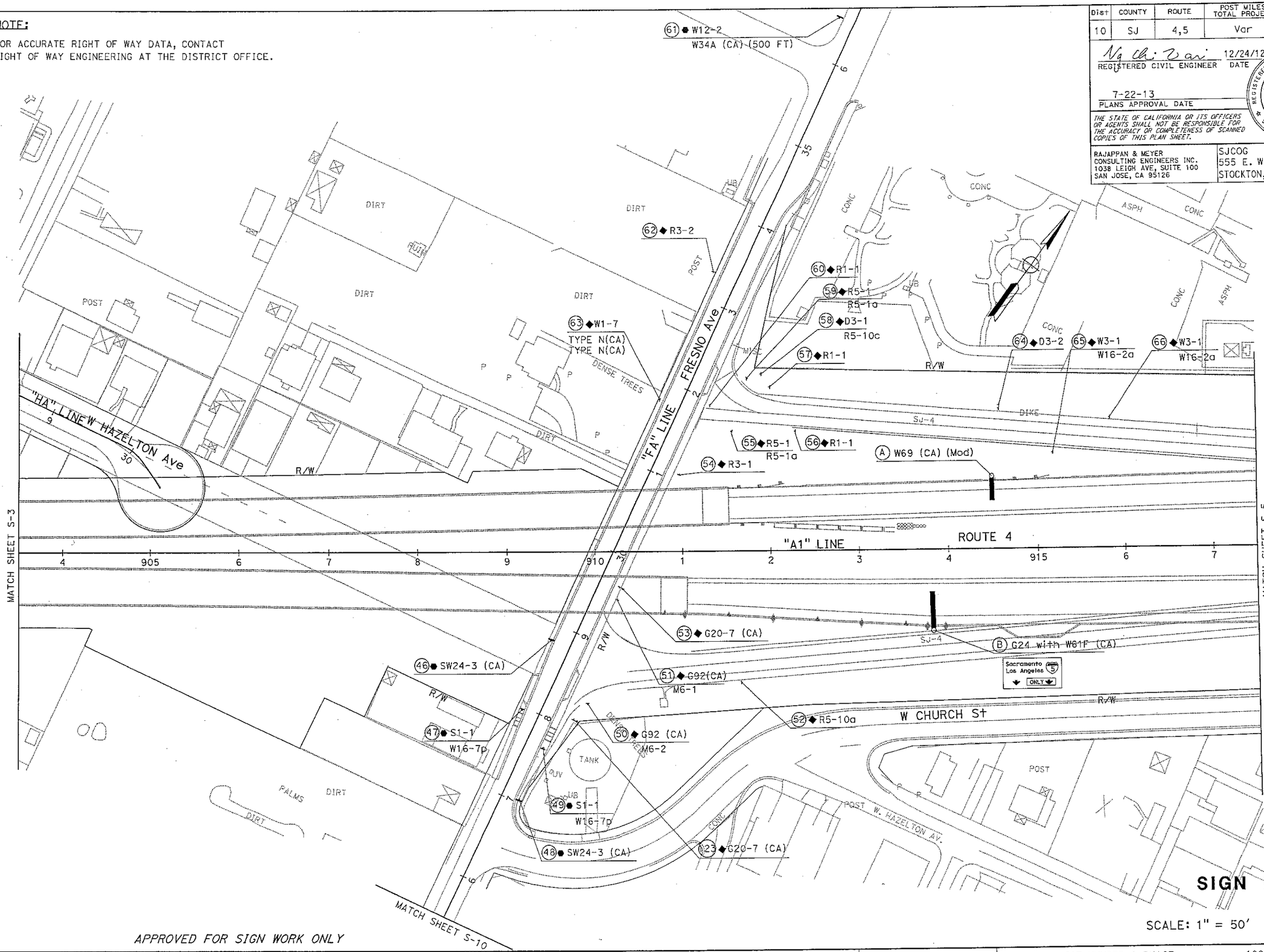
7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHI WAI NG No. 71315 Exp. 12/31/2013 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804



SIGN PLAN

SCALE: 1" = 50'

S-4

APPROVED FOR SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER
CALCULATED-DESIGNED BY: CHI WAI NG
CHECKED BY: SRILAKSHMI SAKHAMURI
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 23-JUL-2013
TIME PLOTTED => 08:41

BORDER LAST REVISED 7/2/2010
USERNAME => s117606
DGN FILE => 1000000229oa004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1455
PROJECT NUMBER & PHASE 10000002291

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	218	486

Ng Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

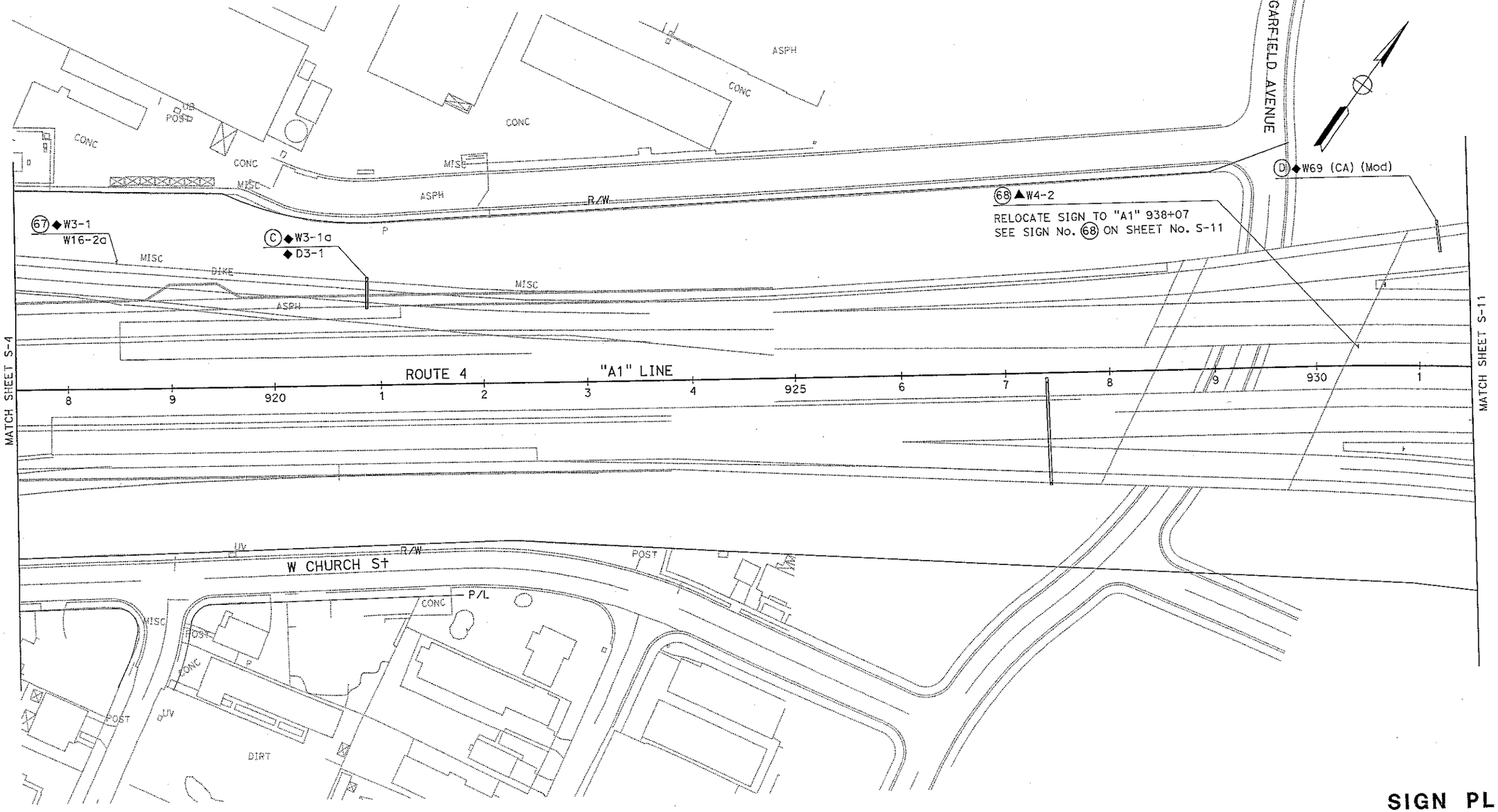
7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHI WAI NG
No. 71315
EXP. 12/31/2013
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804



SIGN PLAN

SCALE: 1" = 50' **S-5**

LAST REVISION 00-00-00 DATE PLOTTED => 23-JUL-2013 TIME PLOTTED => 08:41

APPROVED FOR SIGN WORK ONLY

REVISED BY	DATE REVISED

CHI WAI NG — CALCULATED-DESIGNED BY
SRILAKSHMI SAKHAMURI — CHECKED BY
KEITH MEYER — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

BORDER LAST REVISED 7/2/2010

USERNAME => s117606
DGN FILE => 1000000229oa005.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1455

PROJECT NUMBER & PHASE 10000002291

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	222	486

Ng Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

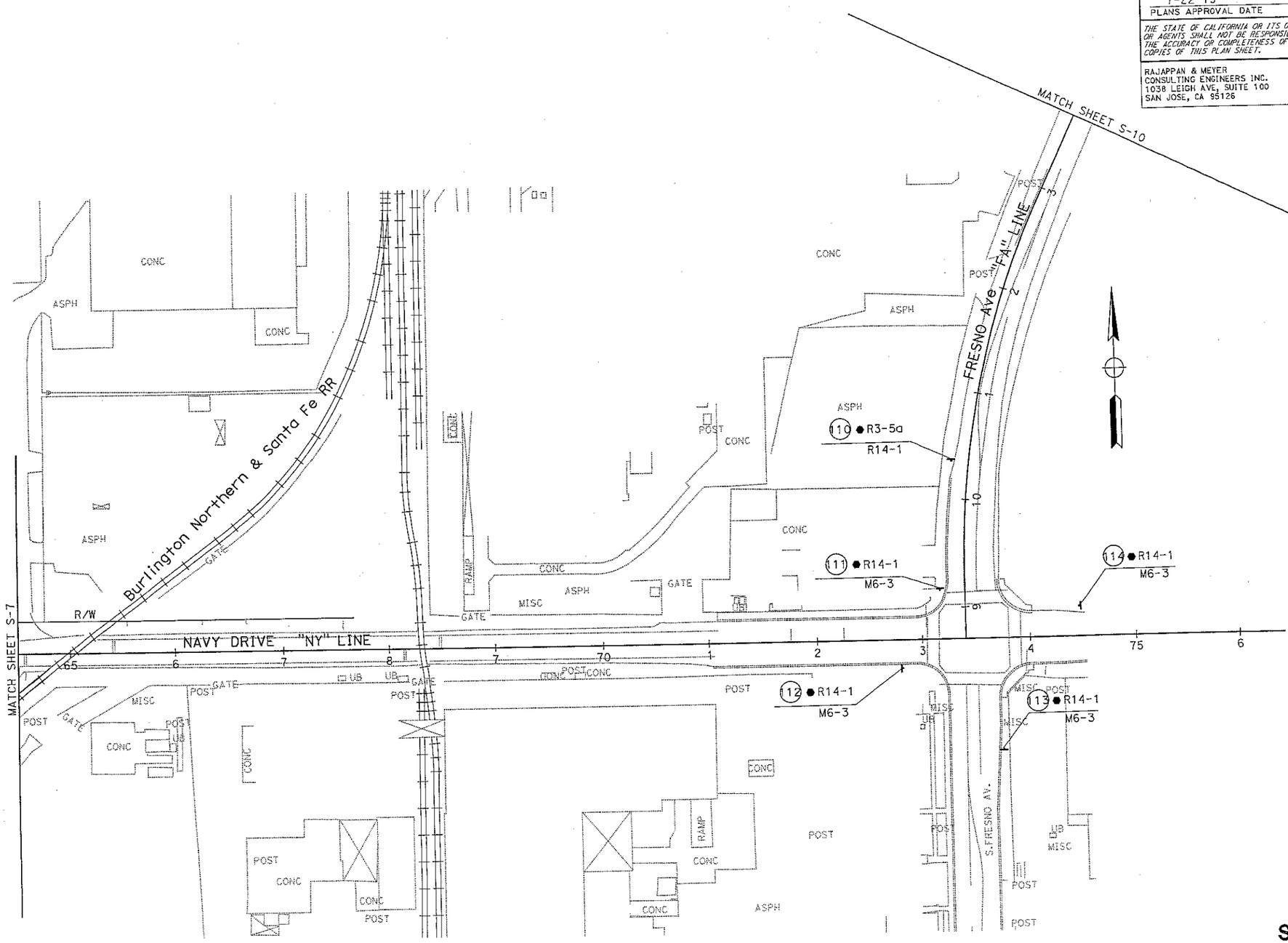
7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHI WAI NG
No. 71315
Exp. 12/31/2013
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804



SIGN PLAN

SCALE: 1" = 50' **S-9**

APPROVED FOR SIGN WORK ONLY

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: CHI WAI NG
CHECKED BY: SRILAKSHMI SAKHAMURI
CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 DATE PLOTTED => 23-JUL-2013 TIME PLOTTED => 08:42

BORDER LAST REVISED 7/2/2010
USERNAME => s117605
DGN FILE => 1000000229aa009.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1455
PROJECT NUMBER & PHASE 10000002291

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	223	486

Ng Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

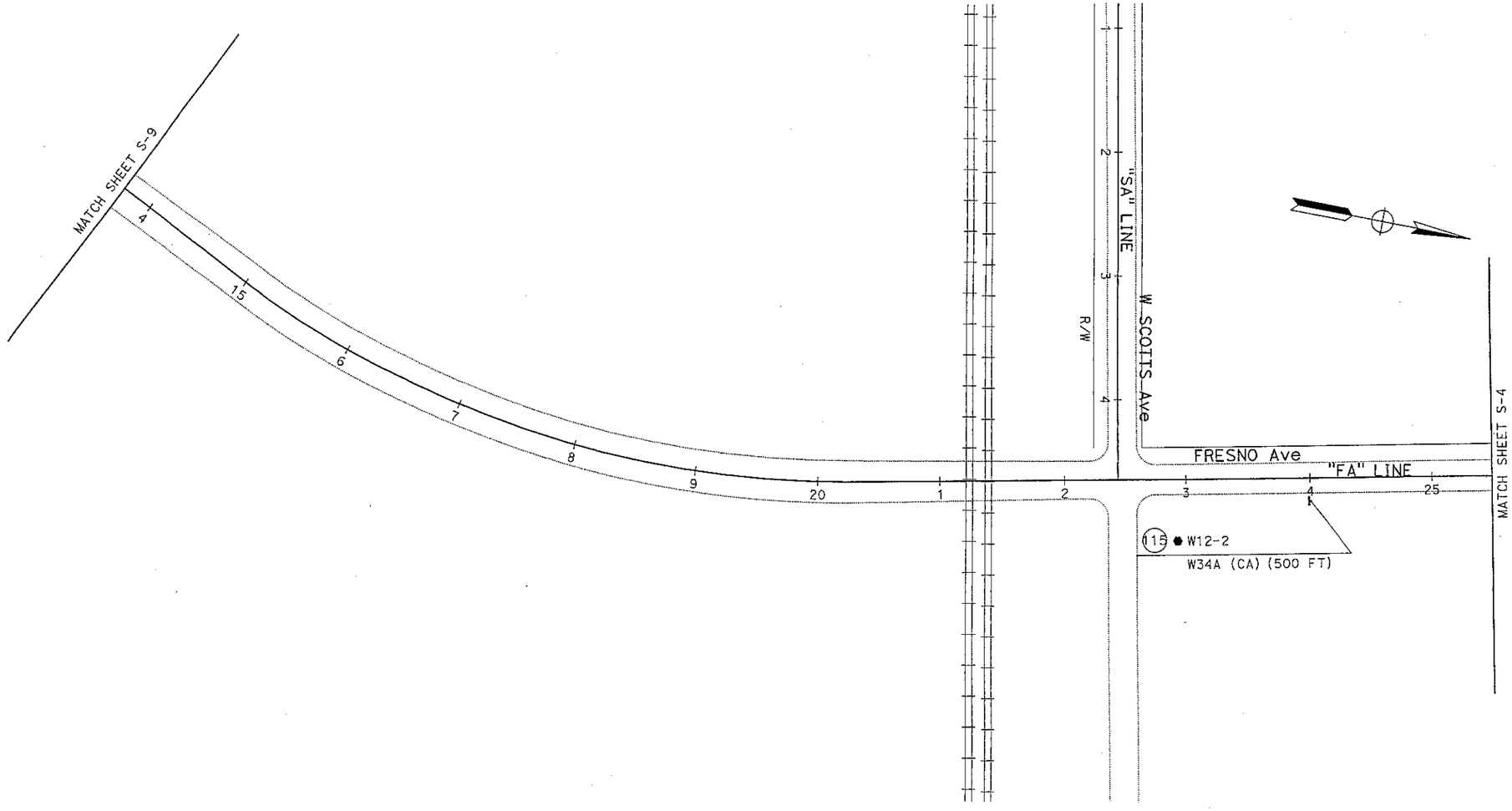
7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHI WAI NG
No. 71315
EXP. 12/31/2013
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE. SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804



SIGN PLAN

SCALE: 1" = 50' **S-10**

APPROVED FOR SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER

CALCULATED-DESIGNED BY: CHI WAI NG
CHECKED BY: SRILAKSHMI SAKHAMURI

REVISED BY	DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 23-JUL-2013
TIME PLOTTED => 08:42

BORDER LAST REVISED 7/2/2010
USERNAME => s117606
DGN FILE => 1000000229oa010.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1455
PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	237	486

Na Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CHI WAI NG — No. 71315 — Exp. 12/31/2013 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

ROADSIDE SIGNS

SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE (INCHES X INCHES)	"C" Dim (FEET)	POST SIZE AND LENGTH (N) 4" x 4"	4" x 6"	6" x 6"	6" x 8"	7.9" x 7.9"	14.9" x 7.9"	SINGLE FACED	BACKGROUND (N) SHEETING COLOR	RETROREFLECTIVITY ASTM TYPE	LEGEND (N) SHEETING COLOR	RETROREFLECTIVITY ASTM TYPE	GRAFFITI FILM (N) STANDARD	PREMIUM	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063" UNFRAMED) SQFT	(0.080" UNFRAMED) SQFT	(0.063" FRAMED) SQFT	(0.080" FRAMED) SQFT	ROADSIDE SIGN ONE POST EA	TWO POST EA	POST TYPE (N) WOOD	REMOVE ROADSIDE SIGN EA	RELOCATE ROADSIDE SIGN EA	INSTALL ROADSIDE SIGN (STRAP AND SADDLE BRACKET METHOD) (N) EA	TREATED WOOD WASTE LB	METAL (RAIL MOUNTED SIGN) LB	SIGN MESSAGE	REMARKS
S-1	26	G92(CA)	48 x 30	7		14'					x	GREEN	IV	WHITE	IV		x		10.00			1								FREEWAY ENTRANCE	
	27	G92(CA)	48 x 30	2			16'				x	GREEN	IV	WHITE	IV		x		10.00			1		X						FREEWAY ENTRANCE	
		G28-1 (4)	35 x 32								x	GREEN	IV	WHITE	IV		x	7.78												CA4	
		M3-2	36 x 18								x	GREEN	IV	WHITE	IV		x	4.50												EAST	
		M6-2	30 x 21								x	GREEN	IV	WHITE	IV		x	4.38												DIRECTIONAL ARROW AUXILIARY	
	28	G92(CA)	48 x 30	2			16'				x	GREEN	IV	WHITE	IV		x		10.00			1		X						FREEWAY ENTRANCE	
		G28-1 (4)	35 x 32								x	GREEN	IV	WHITE	IV		x	7.78												CA4	
		M3-2	36 x 18								x	GREEN	IV	WHITE	IV		x	4.50												EAST	
		M6-1	30 x 21								x	GREEN	IV	WHITE	IV		x	4.38												DIRECTIONAL ARROW AUXILIARY	
	29	G20 (CA)	132 x 84	7				18'			x	GREEN	IV	WHITE	IV		x				77.00		1	X						CA4 Int5 SACRAMENTO / SAN FRANCISCO W/RIGHT ARROW	
	30	R18B(CA) (Mod)	48 x 36	7		16'					x	WHITE	III	BLACK		x			12.00			1		X						RIGHT 2 LANES FREEWAY ONLY	SEE SHEET SD-5 FOR DETAIL
	31	W3-3	48 x 48	7							x	YELLOW	VII	BLACK			x		16.00								1			SIGNAL AHEAD	SEE ELECTRICAL SHEETS
	32	R61-14(CA)	72 x 45	7							x	WHITE	III	BLACK		x				22.50							1			INTERSECTION LANE CONTROL	
S-2	33	W1-1a	48 x 48	7							x	YELLOW	III	BLACK			x		16.00								1			DIRECTIONAL ARROW TO LEFT AT 25 MPH	
	34	W13-2(25)	36 x 48	7							x	YELLOW	III	BLACK			x	12.00									1			EXIT 25 MPH	
	35	R58 (CA)	48 x 26								x	WHITE	III	BLACK		x			8.70										198	END FREEWAY	
	36	R57 (CA)	48 x 26								x	WHITE	III	BLACK		x			8.70										161	BEGIN FREEWAY	
S-3	37	R2-1(65)	48 x 60								x	WHITE	III	BLACK		x		20.00											518	SPEED LIMIT 65 MPH	
		R48-1(CA)	48 x 24								x	WHITE	III	BLACK		x		8.00												RADAR ENFORCED	
	38	W1-6(L)																								1					RELOCATE SIGN
	39	W1-6(R)																								1					RELOCATE SIGN
	40	W12-2	36 x 36	5			18'				x	YELLOW	III	BLACK			x	9.00				1		X						LOW CLEARANCE WITH ARROWS	
		W34A(CA)	36 x 30								x	YELLOW	III	BLACK			x	7.50												500 FEET AHEAD	
	41	W12-2	36 x 36	7		16'					x	YELLOW	III	BLACK			x	9.00				1		X						LOW CLEARANCE WITH ARROWS	
	42	W12-2	36 x 36	5			18'				x	YELLOW	III	BLACK			x	9.00				1		X						LOW CLEARANCE WITH ARROWS	
		W34A(CA)	36 x 30								x	YELLOW	III	BLACK			x	7.50												500 FEET AHEAD	
	43	W14-2	30 x 30	7		16'					x	YELLOW	III	BLACK			x	6.25				1		X						NO OUTLET	
	44	W12-2	36 x 36	7		16'					x	YELLOW	III	BLACK			x	9.00				1		X						LOW CLEARANCE WITH ARROWS	
	45	W14-2	30 x 30	7		16'					x	YELLOW	III	BLACK			x	6.25				1		X						NO OUTLET	
S-4	46	SW24-3 (CA)	36 x 36	7		16'					x	YELLOW	III	BLACK			x	9.00				1		X						SCHOOL ADVANCE WARNING ASSEMBLY D	
	47	S1-1	36 x 36								x	YELLOW	III	BLACK			x	18.00									1			SCHOOL	SEE ELECTRICAL SHEETS
		W16-7p	24 x 12								x	YELLOW	III	BLACK			x	4.00												DOWNWARD DIAGONAL ARROW	
	48	SW24-3 (CA)	36 x 36	7		16'					x	YELLOW	III	BLACK			x	9.00				1		X						SCHOOL ADVANCE WARNING ASSEMBLY D	
	49	S1-1	36 x 36								x	YELLOW	III	BLACK			x	18.00									1			SCHOOL	SEE ELECTRICAL SHEETS
		W16-7p	24 x 12								x	YELLOW	III	BLACK			x	4.00												DOWNWARD DIAGONAL ARROW	
SHEET TOTAL																		198.82	91.40	22.50	77.00	12	1		2			877		

SIGN QUANTITIES

SQ-2

LAST REVISION 00-00-00 | DATE PLOTTED => 23-JUL-2013 | TIME PLOTTED => 09:46

REVISED BY | DATE REVISED
BRENDAN CHAPMAN | CHI WAI NG
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

BORDER LAST REVISED 7/2/2010 | USERNAME => s119571 | DGN FILE => 1000000229od002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1455 | PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	238	486

Ng Chi Wai 12/24/12
REGISTERED CIVIL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHI WAI NG
No. 71315
Exp. 12/31/2013
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

ROADSIDE SIGNS

SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE (INCHES X INCHES)	"C" Dim (FEET)	POST SIZE AND LENGTH (N) 4" x 4"	4" x 6"	6" x 6"	6" x 8"	7.9" x 7.9"	14.9" x 7.9"	SINGLE FACED	BACKGROUND (N) SHEETING COLOR	BACKGROUND (N) RETROREFLECTIVITY ASTM TYPE	LEGEND (N) SHEETING COLOR	LEGEND (N) RETROREFLECTIVITY ASTM TYPE	GRAFFITI FILM (N) STANDARD	GRAFFITI FILM (N) PREMIUM	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063" UNFRAMED) SQFT	(0.080" UNFRAMED) SQFT	(0.063" FRAMED) SQFT	(0.080" FRAMED) SQFT	ROADSIDE SIGN ONE POST EA	ROADSIDE SIGN TWO POST EA	POST TYPE (N) WOOD	REMOVE ROADSIDE SIGN EA	RELOCATE ROADSIDE SIGN EA	INSTALL ROADSIDE SIGN (STRAP AND SADDLE BRACKET METHOD) (N) EA	TREATED WOOD WASTE LB	METAL (RAIL MOUNTED SIGN)	SIGN MESSAGE	REMARKS
S-4	50	G92(CA)																												
		M6-2																								1			91.5		
	51	G92(CA)																												
		M6-1																								1			91.5		
	52	R5-10a																								1			91.5		
	53	G20-7(CA)																								1			183.0		
	54	R3-1																								1			91.5		
	55	R5-1																												
		R5-1a																								1			91.5		
	56	R1-1																								1			91.5		
	57	R1-1																								1			91.5		
	58	D3-1																												
		R5-10c																								1			91.5		
	59	R5-1																												
		R5-1a																								1			91.5		
	60	R1-1																								1			91.5		
	61	W12-2	36 x 36	5			18'				x	YELLOW	III	BLACK			x	9.00				1		X					LOW CLEARANCE WITH ARROWS	
		W34A(CA)	36 x 30								x	YELLOW	III	BLACK			x	7.50											500 FEET AHEAD	
	62	R3-2																								1			91.5		
	63	W1-7																												
		TYPE N(CA)																								1			91.5		
		TYPE N(CA)																								1			183.0		
	64	D3-2																								1			91.5		
	65	W3-1																												
		W16-2a																								1			91.5		
	66	W3-1																												
		W16-2a																								1			183.0		
	123	G20-7 (CA)																								1			91.5		
S-5	67	W3-1																												
		W16-2a																									1				RELOCATE SIGN
	68	W4-2																					1		X					NO PARKING W/ DOUBLE ARROW	
S-6	69	R30E(CA)	12 x 18	7	14'						x	WHITE	II	RED	II	x		1.50								1			91.5		
	70	R8-3a																										1			SEE ELECTRICAL SHEETS
	71	R2-1(45)	30 x 36	7							x	WHITE	III	BLACK		x		7.50												SPEED LIMIT 45	
	72	R30E(CA)	12 x 18	7	14'						x	WHITE	II	RED	II	x		1.50				1		X						NO PARKING W/ DOUBLE ARROW	
	73	R4-7	24 x 30	5			14'				x	WHITE	III	BLACK		x		5.00												KEEP RIGHT	
		TYPE N-1(CA)	18 x 18								x	YELLOW	III	YELLOW	III		x	2.25				1		X						OBJECT MARKER TYPE N	
		SHEET TOTAL																34.25				4			19	1		2013.0			

SIGN QUANTITIES

SQ-3

BRENDAN CHAPMAN	CHI WAI NG	KEITH MEYER	
REVISED BY	DATE REVISED	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY
			CHECKED BY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION D 00-00-00 TIME
PLOTTED => 23-JUL-2013 09:46

BORDER LAST REVISED 7/2/2010

USERNAME => s119571
DGN FILE => 1000000229sd003.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1455

PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	240	486

Chi Wai Ng 12/24/12
REGISTERED CIVIL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CHI WAI NG No. 71315 Exp. 12/31/2013 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

ROADSIDE SIGNS

SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE (INCHES X INCHES)	"C" Dim (FEET)	POST SIZE AND LENGTH (N) 4" x 4"	4" x 6"	6" x 6"	6" x 8"	7.9" x 7.9"	14.9" x 7.9"	SINGLE FACED	BACKGROUND (N) SHEETING COLOR	BACKGROUND (N) RETROREFLECTIVITY ASTM TYPE	LEGEND (N) SHEETING COLOR	LEGEND (N) RETROREFLECTIVITY ASTM TYPE	GRAFFITI FILM (N) STANDARD	GRAFFITI FILM (N) PREMIUM	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063" UNFRAMED) SQFT	(0.080" UNFRAMED) SQFT	(0.063" FRAMED) SQFT	(0.080" FRAMED) SQFT	ROADSIDE SIGN ONE POST EA	ROADSIDE SIGN TWO POST EA	POST TYPE (N) WOOD	REMOVE ROADSIDE SIGN EA	RELOCATE ROADSIDE SIGN EA	INSTALL ROADSIDE SIGN (STRAP AND SADDLE BRACKET METHOD) (N) EA	TREATED WOOD WASTE LB	METAL (RAIL MOUNTED SIGN) LB	SIGN MESSAGE	REMARKS
S-8	100	R73-3(CA)	36 x 36								x	WHITE	III	BLACK		x		9.00												INTERSECTION LANE CONTROL	SEE ELECTRICAL SHEETS
	101	G7-1(CA)	96 x 24								x	GREEN	IV	WHITE	IV		x				16.00									CHARTER WAY	
	102	R3-18	30 x 30								x	WHITE	III	BLACK		x		6.25												NO U-TURN/NO LEFT TURN	
	103	G7-1(CA)	126 x 24								x	GREEN	IV	WHITE	IV		x				21.00									TILLIE LEWIS DRIVE	
	104	W3-1																							1			91.5		
	105	R61-19(CA)	36 x 30	7		14'					x	WHITE	III	BLACK		x		7.50				1		x						INTERSECTION LANE CONTROL	
	106	G7-1(CA)	126 x 24								x	GREEN	IV	WHITE	IV		x				21.00									TILLIE LEWIS DRIVE	SEE ELECTRICAL SHEETS
	107	R73-3(CA)	36 x 36								x	WHITE	III	BLACK		x		9.00												INTERSECTION LANE CONTROL	
	108	G8-13(CA)	114 x 84	7				18'			x	GREEN	IV	WHITE	IV		x				66.50		1	x						PORT OF STOCKTON / ROUGH & READY ISLAND W/ RIGHT ARROW	SEE SHEET SD-7 FOR DETAIL
S-9	109	R14-1	24 x 18	5		16'					x	WHITE	III	BLACK		x		3.00				1		x						TRUCK ROUTE LEFT/RIGHT DIRECTIONAL ARROW	
		M6-4	21 x 15								x	WHITE	III	BLACK		x		2.20												NO RIGHT TURN ARROW	
	110	R3-5a	30 x 36	5		16'					x	WHITE	III	RED	III	x		7.50				1		x						TRUCK	
		R14-1	24 x 18								x	WHITE	III	BLACK		x		3.00												TRUCK ROUTE	
	111	R14-1	24 x 18	5		16'					x	WHITE	III	BLACK		x		3.00				1		x						DIRECTIONAL ARROW STRAIGHT	
		M6-3	21 x 15								x	WHITE	III	BLACK		x		2.20												TRUCK ROUTE	
	112	R14-1	24 x 18	5		16'					x	WHITE	III	BLACK		x		3.00				1		x						DIRECTIONAL ARROW STRAIGHT	
		M6-3	21 x 15								x	WHITE	III	BLACK		x		2.20												TRUCK ROUTE	
	113	R14-1	24 x 18	5		16'					x	WHITE	III	BLACK		x		3.00				1		x						DIRECTIONAL ARROW STRAIGHT	
		M6-3	21 x 15								x	WHITE	III	BLACK		x		2.20												TRUCK ROUTE	
	114	R14-1	24 x 18	5		16'					x	WHITE	III	BLACK		x		3.00				1		x						DIRECTIONAL ARROW STRAIGHT	
		M6-3	21 x 15								x	WHITE	III	BLACK		x		2.20												LOW CLEARANCE WITH ARROWS	
S-10	115	W12-2	36 x 36	5			18'				x	YELLOW	III	BLACK			x	9.00				1		x						500 FEET AHEAD	
		W34A(CA)	36 x 30								x	YELLOW	III	BLACK			x	7.50												LANE ENDS	
S-11	116	W4-2	48 x 48	7		16'					x	YELLOW	VII	BLACK			x		16.00			1				1				LEFT LANE ENDS	RELOCATE SIGN
S-12	117	W9-1																												PORT OF STOCKTON / ROUGH & READY ISLAND USE NAVY DRIVE	REPLACE PANEL, SEE SHEET SD-6 FOR DETAILS
S-13	118	G20(CA)	114 x 86	7							x	GREEN	IV	WHITE	IV		x				68.00		1	X						RIGHT LANE ENDS	
S-13	119	W9-1	48 x 48	7		16'					x	YELLOW	VII	BLACK			x		16.00										400	LANE ENDS	
	120	W4-2	48 x 48								x	YELLOW	VII	BLACK			x		16.00												
SHEET TOTAL																		84.75	48.00		192.50	10	1		1	1		91.5	400		

SIGN QUANTITIES

SQ-5

REVISED BY	DATE REVISED
BRENDAN CHAPMAN	
CALCULATED-DESIGNED BY	
CHI WAI NG	
CHECKED BY	
KEITH MEYER	
CONSULTANT FUNCTIONAL SUPERVISOR	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	
Caltrans	

LAST REVISION 00-00-00 — PLOTTED => 23-JUL-2013 09:46 — TIME

BORDER LAST REVISED 7/2/2010 | USERNAME => s119571 | DGN FILE => 1000000229od005.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1455 | PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	243	486

REGISTERED CIVIL ENGINEER — DATE 12/24/12

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARTHA M DADALA — No. 66275 — Exp. 6/30/2014 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

PAVEMENT STRUCTURE QUANTITIES

SHEET No.	STATION	JOINTED PLAIN CONCRETE PAVEMENT	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT	HOT MIX ASPHALT (TYPE A)	LEAN CONCRETE BASE	TACK COAT	LIQUID ASPHALT (PRIME COAT)	CLASS 2 AGGREGATE BASE	CLASS 2 AGGREGATE SUBBASE	SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A1
		CY	CY	TON	CY	TON	TON	CY	CY	SQYD
L-1	"NY"36+50.00 TO "NY"50+50.00	4,775.62			1,475.07				2,950.15	12,643.5
L-1	"NA"872+05.21 TO "NA"876+71.59	385.43		154.17		0.23	0.73		215.84	
L-1	"NA"872+05.21 TO "NA"876+80.29	282.44		112.98		0.17	0.54		158.17	
L-1	"NA"872+05.21 TO "NA"879+50.00		2,644.03	1,201.83		1.80	5.70		1,682.57	
L-2	"NA"879+50.00 TO "NA"880+50.00		301.79	137.18		0.21	0.65		192.05	
L-2	"NA1"880+67.42 TO "NA1"882+22.34		212.89	96.77		0.15	0.46		135.48	
L-2	"NA2"880+50.00 TO "NA2"882+04.89		208.70	94.86		0.14	0.45		132.81	
L-3	"VS"10+00.00 TO "VS"12+52.99			615.61		0.51	1.62	957.61	513.00	2,045.76
L-3	"SA"20+00.00 TO "SA"23+49.00									
L-3	"DN"12+43.93 TO "DN"13+73.75			431.13		0.46	0.73	893.06		
L-4	"HA"29+52.27 TO "HA"30+51.28			464.28		0.50	0.79	961.73		
L-4	"FA"26+73.14 TO "FA"34+74.63			74.83		0.06	0.20	116.41	62.36	249.45
L-4	"A4"914+52.18 TO "A4"915+45.28			50.63		0.05		97.65		
L-4	"A4"911+05.00 TO "A4"917+49.95	1,438.58			402.80				805.61	
L-4	"A3"911+53.00 TO "A3"917+50.13	1,078.87			302.08				604.16	
L-5	"A4"917+49.95 TO "A4"913+78.39	1,483.38			415.35				830.70	
L-5	"A3"917+50.13 TO "A3"924+80.25	1,438.59			402.81				805.61	
L-5	"A3"918+75.60 TO "A4"919+67.94			50.48		0.05		97.35		
L-6	"NY"26+09.82 TO "NY"36+50.00	2,901.07			846.14				1,692.29	7,252.66
L-7	"NY"50+50.00 TO "NY"59+35.80	1,835.50			611.83				1,223.67	5,244.29
L-7	"NY"59+35.80 TO "NY"60+29.52			20.35		0.02	0.03	41.11		
L-7	"TL"26+50.00 TO "TL"32+38.66			1,464.13		1.57	2.48	2,823.67		
L-8	"TL"14+50.00 TO "TL"26+50.00			2,436.42		2.61	4.13	4,698.82		
L-9	"CW"776+20.99 TO "CW"778+98.09			61.02		0.06	0.10	123.27		
L-9	"TL"10+51.35 TO "TL"14+50.00			872.78		0.94	1.48	1,683.22		
SUB-TOTAL		15,619.48	3,367.41	8,339.46	4,456.08	9.54	20.08	12,493.90	12,004.46	27,435.66
FROM CRCP JOINTS TABLE (SHEET Q-5)					378.00					
FROM HMA DIKE TABLE (SHEET Q-6)				64.55		0.09				
FROM CONCRETE CURB TABLE (SHEET Q-3)								306.46		
FROM SIDEWALK TABLE (SHEET Q-3)								218.47		
FROM DRIVEWAY TABLE (SHEET Q-3)								255.30		
FROM CURB RAMP TABLE (SHEET Q-3)								7.98		
FROM TRAFFIC HANDLING QUANTITY SHEETS				1,440.00		0.39				
FROM RETENTION BASINS (SHEET Q-2)				111.48						
TOTAL		15,619.48	3,367.41	9,955.48	4,834.08	10.02	20.08	13,282.10	12,004.46	27,435.66

(N)- NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES
Q-1

LAST REVISION 00-00-00 — DATE PLOTTED => 23-JUL-2013 — TIME PLOTTED => 09:46

REVISED BY | DATE REVISED
PRAVEEN CHILAKAPATI | MARTHA DADALA
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

BORDER LAST REVISED 7/2/2010 | USERNAME => s119571 | DGN FILE => 1000000229pa001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1455 | PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	244	486

S. Sri Lakshmi 12/24/12
REGISTERED CIVIL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SRILAKSHMI SAKHAMURI No. 76343 Exp. 12/31/2014 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

EARTHWORK QUANTITIES SUMMARY

LOCATION	STATION	ROADWAY EXCAVATION	EMBANKMENT (N)	IMPORTED BORROW	ROADWAY EXCAVATION (TYPE DC MATERIAIL)	OBLITERATE SURFACING	DITCH EXCAVATION
		CY	CY	CY	CY	SQYD	CY
"NA"	872+50.00 TO 880+50.00		37,564		7267		
"NA1"	881+00.00 TO 882+17.07		5022		1091		
"A1"	911+01.02 TO 924+50.00	9250	30,899				
"NY"	26+09.82 TO 60+29.50	14,686	7087		4180		
"TL"	10+51.35 TO 32+00.00	9875	118		75		
"VS"	10+00.00 TO 12+53.10	636	3				
"SA"	20+00.00 TO 23+44.08	888	82				
"DN"	12+50.00 TO 13+73.77	817	4			587	
"HA"	29+52.27 TO 30+51.28	628	1			1341	
"FA"	27+00.00 TO 34+74.63	416	13				
RETENTION BASIN No.1		2767	3361		12,120		
RETENTION BASIN No.2		10,606	1688		6114		
RETENTION BASIN No.3		8101					
"CW"	777+21.60 TO 779+28.04					522	
"A3"	911+22.04 TO 922+10.40					2018	
"A4"	910+15.87 TO 917+50.00					2055	
"A3"	918+50.10 TO 924+80.25					1376	
"A4"	917+83.94 TO 923+78.39					793	
"TL"	16+70.00 TO 28+10.85					910	
FROM TRAFFIC HANDLING QUANTITY SHEETS		720					
FROM DRAINAGE QUANTITY (DQ-13)							1465
SUB-TOTAL		59,390	85,842	37,478	30,847	9602	1465
SUBSIDENCE				2933			
TOTAL		59,390	85,842	40,411	30,847	9602	1465

HOT MIX ASPHALT IN RETENTION BASINS

SHEET No.	LOCATION	HMA (TYPE A)
		TON
G-1	RETENTION BASIN No. 1	40.74
G-2	RETENTION BASIN No. 2	40.74
G-4	RETENTION BASIN No. 3	30.00
	TOTAL	111.48*

REMOVE CONCRETE

LOCATION	SIDEWALK	DRIVEWAY	CURB & GUTTER	PAVEMENT
	SQYD	SQYD	LF	CY
"FA' 34+14.63 TO 34+74.63	67		60	
"A3' 918+50.10 TO 924+80.25				695
"A4' 914+52.18 TO 923+78.39				902
"TL' 16+29.00 TO 28+10.00(NB)		165	993	
"TL' 10+67.23 TO 28+10.00(SB)		252	1556	
"TL' 28+30.82 TO 32+61.00	444	99	433	
"NA' 26+09.72 TO 58+08.01(EB)		294	898	
"NA' 30+65.53 TO 51+22.40(WB)	350	530	545	
TOTAL	862	1340	4485	1598

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 5, 2013

* - QUANTITY INCLUDED IN PAVEMENT STRUCTURE QUANTITIES IN Q-1.

(N)- NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES
Q-2

LAST REVISION 00-00-00 | DATE PLOTTED => 05-NOV-2013 | TIME PLOTTED => 05:51

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | Caltrans | CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER | CALCULATED-DESIGNED BY: SRILAKSHMI SAKHAMURI | CHECKED BY: PRAVEEN CHILAKAPATI | REVISED BY | DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME => s121614 | DGN FILE => 1000000229pa002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1455 | PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	245	486

REGISTERED CIVIL ENGINEER — 12/24/12 DATE

7-22-13 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PRAVEEN CHILAKAPATI — No. 76058 — Exp. 6/30/2014 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

CONCRETE CURB

SHEET No.	STATION	(TYPE A2-6, Mod) MINOR CONCRETE (Misc Const) CY	(TYPE A2-6, Mod) CLASS 2 AGGREGATE BASE CY	TYPE E MINOR CONCRETE (Misc Const) CY	TYPE E CLASS 2 AGGREGATE BASE CY	(TYPE A3-6) MINOR CONCRETE (Misc Const) CY
L1 & L6	"NY" 36+05.22 TO "NY" 41+81.16 Lt	35.46	16.56			
L1	"NA" 873+18.46 TO "NY" 44+05.34 Lt	8.70	4.06			
L1	"NY" 44+05.34 TO 50+50.00 Lt	42.46	19.83			
L1	"NY" 36+50.00 TO 50+50.00 Rt	91.73	43.84			
L1	"NY" 36+52.55 TO 41+49.76 MEDIAN					10.60
L1	"NA" 872+52.57 TO 878+266.66 MEDIAN					11.96
L4	"FA" 27+14.18 TO 30+4.35 Lt	19.04	8.89			
L4	"FA" 26+73.14 TO 34+74.63 Rt	54.11	25.27			
L6	"NY" 26+13.21 TO 26+50.42 Lt	0.21	0.12	2.52	1.38	
L6	"NY" 26+50.42 TO 29+92.24 Lt	22.11	10.33	5.27	2.90	
L6	"NY" 30+71.37 TO 36+50.00 Lt	37.95	17.72			
L6	"NY" 30+65.43 TO 35+66.51 Rt	34.02	15.89			
L6	"NY" 36+05.22 TO 36+50.00 Rt	3.66	1.71			
L6	"NY" 30+92.46 TO 34+92.26 Lt MEDIAN					8.62
L7	"NY" 50+50.00 TO 57+48.27 Lt	45.93	21.45			
L7	"NY" 50+50.00 Rt TO 31+44.05 Lt	34.54	16.13			
L7	"TL" 31+28.57 Rt TO "NY" 56+54.91 Rt	9.93	4.64			
L7	"TL" 30+78.19 Rt TO 31+28.57 Rt			3.36	1.85	
L7	"TL" 26+50.00 Rt TO 30+78.19 Rt	20.20	9.43			
L7	"TL" 27+57.37 Lt TO 28+08.57 Lt	3.35	1.57			
L8	"TL" 16+29.45 Rt TO 26+50.00 Rt	73.34	34.25			
L8	"TL" 14+50.00 Lt TO 25.72.62 Lt	73.45	34.30			
L9	"TL" 10+59.71 Lt TO 14+50.00 Lt	25.54	11.93			
L9	"CW" 776+19.99 Lt TO "TL" 10+59.71 Lt	7.31	3.42			
TOTAL		643.07*	300.33**	11.15*	6.13**	31.18*

CONCRETE DRIVEWAY

SHEET No.	LOCATION	MINOR CONCRETE (Misc Const) CY	CLASS 2 AGGREGATE BASE CY
L-1	"NY" 37+67.01 TO 38+36.94	6.01	3.97
L-1	"NY" 38+46.94 TO 38+86.93	3.24	2.14
L-1	"NY" 46+77.57 TO 47+14.37	3.24	2.14
L-1	"NY" 47+77.65 TO 48+47.73	6.03	3.98
L-1	"NY" 48+61.00 TO 49+01.09	3.25	2.15
L-1	"NY" 49+11.27 TO 49+66.35	4.64	3.06
L-4	"FA" 28+01.91 TO 28+41.86	3.57	2.35
L-4	"FA" 28+24.55 TO 28+64.55	3.24	2.14
L-4	"FA" 32+00.49 TO 32+40.49	3.24	2.14
L-6	"NY" 26+13.22 TO 26+50.42	3.10	2.04
L-6	"NY" 29+92.24 TO 30+71.37	17.32	11.43
L-6	"NY" 35+26.96 TO 35+96.96	6.02	3.97
L-6	"NY" 35+42.76 TO 36+30.16	29.33	19.36
L-7	"NY" 50+30.15 TO 50+70.14	3.24	2.14
L-7	"NY" 51+62.19 TO 52+17.17	4.63	3.06
L-7	"NY" 55+50.15 TO 55+90.25	3.25	2.15
L-7	"NY" 57+48.27 TO 58+02.07	5.97	3.94
L-7	"TL" 30+78.19 TO 31+28.13	5.53	3.65
L-7	"TL" 28+30.91 TO 28+80.48	5.80	3.83
L-7	"TL" 27+71.42 TO 28+05.41	3.00	1.98
L-7	"TL" 27+50.31 TO 27+84.31	3.00	1.98
L-8	"TL" 15+42.33 TO 16+07.71	5.36	3.54
L-8	"TL" 16+25.85 TO 16+75.85	4.62	3.05
L-8	"TL" 16+25.11 TO 16+70.11	4.12	2.72
L-8	"TL" 18+86.91 TO 19+26.91	3.61	2.38
L-8	"TL" 19+89.77 TO 20+59.77	6.67	4.40
L-8	"TL" 20+57.74 TO 21+03.74	4.22	2.79
L-8	"TL" 23+67.52 TO 24+22.52	5.14	3.39
L-8	"TL" 24+84.28 TO 25+19.28	3.10	2.05
L-8	"TL" 25+19.62 TO 25+69.62	4.63	3.06
L-9	"CW" 779+01.02 TO 780+66.79	218.67	144.32
TOTAL		386.79*	255.30**

MINOR CONCRETE (STAMPED CONCRETE)

SHEET No.	LOCATION	MINOR CONCRETE (STAMPED CONCRETE) SQFT
L-1	"NA" 872+52.56 TO 878+26.66	1717
L-6 & L-1	"NY" 36+46.41 TO 41+49.76	3670
L-6	"NY" 30+88.46 TO 34+92.76	1291
TOTAL		6678

CURB RAMP

LOCATION		STATION	MINOR CONCRETE (Misc Const) CY	CLASS 2 AGGREGATE BASE CY	DETECTABLE WARNING SURFACE SQFT
NAVY Dr "NY"	Rt	35+59.15	1.55	1.02	15
NAVY Dr "NY"	Rt	36+19.06	1.52	1.00	15
NAVY Dr "NY"	Rt	55+09.04	2.65	1.75	15
NAVY Dr "NY"	Rt	55+89.20	2.67	1.76	15
FRESNO Ave "FA"	Lt	27+85.00	1.48	0.98	15
FRESNO Ave "FA"	Rt	27+85.00	2.22	1.46	15
TOTAL			12.09*	7.98**	90

MINOR CONCRETE (Misc Const)

FROM	CY
CONCRETE CURB (TYPE A2-6, Mod)	643.07
CONCRETE CURB (TYPE E)	11.15
CONCRETE CURB (TYPE A3-6)	31.18
DRIVEWAY	386.79
SIDEWALK	397.46
CURB RAMP	12.09
DRAINAGE QUANTITIES (DQ-13)	39.66
TOTAL	1521.40

* - QUANTITY INCLUDED IN MINOR CONCRETE (Misc Const) TABLE
** - QUANTITY INCLUDED IN PAVEMENT STRUCTURE QUANTITIES IN Q-1

SIDEWALK

LOCATION		STATION	MINOR CONCRETE (Misc Const) CY	CLASS 2 AGGREGATE BASE CY
NAVY Dr "NY"	Rt	30+65.53 TO 35+66.51	50.98	27.53
NAVY Dr "NY"	Rt	36+05.22 TO 55+11.45	194.89	105.68
NAVY Dr "NY"	Rt	55+83.23 TO 56+54.91	13.06	7.46
FRESNO Ave "FA"	Lt	27+14.18 TO 30+04.35	23.87	12.89
FRESNO Ave "FA"	Rt	26+73.14 TO 27+31.02	9.88	3.89
FRESNO Ave "FA"	Rt	27+31.02 TO 34+74.63	104.78	61.02
TOTAL			397.46*	218.47**

SUMMARY OF QUANTITIES
Q-3

REVISED BY	DATE REVISED
PRAVEEN CHILAKAPATI	SRILAKSHMI SAKHAMURI
CALCULATED-DESIGNED BY	CHECKED BY
KEITH MEYER	

CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 — DATE PLOTTED => 23-JUL-2013 — TIME PLOTTED => 09:46

BORDER LAST REVISED 7/2/2010 | USERNAME => s119571 | DGN FILE => 1000000229po003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1455 | PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	246	486

S. Sri Lakshmi 12/24/12
REGISTERED CIVIL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SRILAKSHMI SAKHAMURI No. 76343 Exp. 12/31/2014 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

FENCE AND GATE SUMMARY

SHEET No.	STATION	CHAIN LINK FENCE (TYPE CL-6)	CHAIN LINK FENCE (TYPE CL-6, BW)	CHAIN LINK GATE (TYPE CL-6, BW) 10'	12'	16'	24'	CHAIN LINK GATE (TYPE CL-6) 12'	16'	20' SLIDING	REMOVE CHAIN LINK FENCE	REMOVE GATE
		LF	LF	EA	EA	EA	EA	EA	EA	EA	LF	EA
L-1	"NY" 38+25.85 TO "NY" 38+37.50 Lt		283									
	"NY" 38+37.44 TO "NY" 38+56.57 Lt	19							1			
	"NY" 38+66.57 TO "NA" 874+98.88 Lt	634										
	"NY" 36+84.73 TO "NY" 46+60.27 Rt		970			2					984	2
	"NY" 47+05.87 TO "NY" 47+19.73 Rt		14			2						
	"NA" 876+77.71 TO "NY" 47+01.69 Lt	660							1		585	
	"NY" 47+12.23 TO "NY" 48+61.33 Lt		110				2					2
	"NY" 49+01.33 TO "NY" 50+28.32 Lt		95			2						
L-1 & L-2	"NY" 47+27.84 Lt TO "NA2" 881+74.05 Rt	664						1	1			
L-2	"NA1" 882+09.87 TO "NA1" 882+17.14 Lt	19						1				
L-3	"A1" 893+83.70 TO 901+56.54	1898						4				
L-3 & L-4	"A1" 902+13.23 TO 909+91.66	2199						2	1			
L-4	"FA" 27+31.02 TO 34+03.23 Rt	672							2		476	1
	"A4" 914+48.21 TO 914+70.51 Rt								1		22	
L-6	"NY" 27+02.64 TO 30+46.86 Lt		317	2							315	1
	"NY" 30+46.39 TO 35+61.96 Lt		497				2					1
	"NY" 35+43.65 TO 35+60.05 Rt		29								40	
L-1 & L-6	"NY" 35+58.96 TO 38+01.97 Lt		192				2				963	1
	"NY" 36+25.10 TO 36+67.81 Rt		44								40	
L-1 & L-7	"NY" 48+99.94 Lt TO 51+76.18 Rt										294	2
L-7	"NY" 50+80.56 TO 55+04.88 Rt										340	2
	"NY" 51+64.29 TO 51+80.56 Rt		16									
	"NY" 51+92.56 TO 55+04.88 Rt		322		2							
	"TL" 31+25.26 TO "NY" 56+62.61 Rt		136								136	
L-9	"CW" 777+48.18 TO 780+14.41 Rt	285								1	285	1
TOTAL		7050	3025	2	2	6	6	8	7	1	4480	13

(N)- NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES
Q-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER
CALCULATED-DESIGNED BY: SRILAKSHMI SAKHAMURI
CHECKED BY: PRAVEEN CHILAKAPATI
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
D TTED => 23-JUL-2013
TIM TTED => 09:46

BORDER LAST REVISED 7/2/2010
USERNAME => s119571
DGN FILE => 1000000229pa004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1455
PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	247	486

REGISTERED CIVIL ENGINEER — DATE 12/24/12

SRILAKSHMI SAKHAMURI, No. 76343, Exp. 12/31/2014, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

7-22-13
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

RETAINING WALL

LOCATION	STRUCTURE EXCAVATION (RETAINING WALL)	STRUCTURE BACKFILL (RETAINING WALL)	STRUCTURAL CONCRETE, RETAINING WALL	PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	CABLE RAILING	Conc BARRIER (TYPE 736A)	BAR REINFORCING STEEL (RETAINING WALL)
	CY				LF		LB
RW4	766	1125	463	101	750.02		46,641
RW5	511	691	258	65		301.51	30,885
TOTAL	1277	1816	721	166	750.02	301.51	77,526

CRCP JOINTS

LOCATION	CRCP (TERMINAL JOINT, TYPE E)	CRCP (EXPANSION JOINT, TYPE WF)	CRCP (WIDE FLANGE BEAM TERMINAL)	JOINT SEAL (TYPE A)	JOINT SEAL (MR 1 1/2")	LEAN CONCRETE BASE
	LF					CY
"NA" 872+05.21	93					117.30
"NA" 872+41.65		93			93	42.20
"NA" 872+62.74			93	93		68.60
"NA" 881+50			61	61		45.30
"NA" 881+70		61			61	27.70
"NA" 882+04.89	62					76.90
TOTAL	155	154	154	154	154	378.00

METAL BEAM GUARD RAIL & TRANSITION RAILING

LOCATION		STATION	METAL BEAM GUARD RAILING (WOOD POST)	DOUBLE METAL BEAM GUARD RAILING WOOD POST	TRANSITION RAILING (TYPE WB)	ALTERNATIVE FLARED TERMINAL SYSTEM	END ANCHOR ASSEMBLY (TYPE SFT)	RAIL TENSION ASSEMBLY	LAYOUT TYPE (N)	REMOVE METAL BEAM GUARD RAILING	TREATED WOOD WASTE
			LF	LF	EA	EA	EA	EA		LF	LB
"NA"	R†	876+02.74 TO 876+77.71			1	1			12B		
"A3"	L†	911+53.00 TO 912+15.50			1	1			12B		
"A3"	R†	911+50.00 TO 913+40.13	25.00	137.50	1			1	12E		
"A3"	L†	914+39.65 TO 915+14.65	37.50			1	1		16B		
"A1"	L†	940+80.75 TO 941+17.37	37.50			1	1		16B		
"CW"	R†	789+01.54 TO 789+73.59								72.0	892.5
FROM SIGN QUANTITIES SQ-4											2196.0
TOTAL			100.00	137.50	3	4	2	1		72.0	3088.5

CONCRETE BARRIER

LOCATION	STATION	CONCRETE BARRIER (TYPE 60)	CONCRETE BARRIER (TYPE 736B)
		LF	
"NA"	878+65.52 TO 880+50.00	184.50	
"NA2"	880+50.00 TO 882+34.89	184.89	
"A4"	913+78.20 TO 913+98.11		20
TOTAL		369.39	20

JPCP JOINTS

SHEET No.	STATION	SEAL PAVEMENT JOINT	SEAL ISOLATION JOINT
		LF	
L-1	"NY"36+50.00 TO 50+50.00	17,641.70	1303.72
L-4	"A4"911+06.00 TO 917+50.00	4970.71	
L-4	"A3"911+53.00 TO 917+50.00	3508.44	
L-5	"A4"917+50.00 TO 923+78.39	4281.78	
L-5	"A3"917+50.00 TO 924+80.25	4662.90	
L-6	"NY"26+09.82 TO 39+50.00	13,545.26	
L-7	"NY"50+50.00 TO 59+35.80	7021.76	
TOTAL		55,632.55	1303.72

CRASH CUSHION, SAND FILLED

SHEET No.	LOCATION	CC ARRAY 'B14'
		EA
L-1	"NA" 878+50.00	1
L-4	"A3" 913+50.00 16' R†	1
TOTAL		2

EXISTING FACILITIES 2

LOCATION	STATION	RELOCATE MAILBOX	RELOCATE HYDRANT (CITY)	REMOVE CONCRETE CURB	ADJUST FIRE HYDRANT (CITY)
		EA		LF	EA
L-1	"NY"36+50.00 TO 50+50.00		2		
L-4	"A4"914+40.72 TO 914+70.51			30	
L-6	"NY"29+00.00 TO 36+50.00	1	1		2
TOTAL		1	3	30	2

8" WELDED STEEL PIPE CONDUIT (.250" THICK)

SHEET No.	LOCATION	8" WSP
		LF
L-3	S LOS ANGELES AVENUE	276
L-4	FRESNO AVENUE	286
TOTAL		562

(*) - QUANTITY INCLUDED IN PAVEMENT STRUCTURE QUANTITIES
(N)- NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 5, 2013

SUMMARY OF QUANTITIES

Q-5

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: SRILAKSHMI SAKHAMURI
CHECKED BY: PRAVEEN CHILAKAPATI
CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 05-NOV-2013
TIME PLOTTED => 05:51

BORDER LAST REVISED 7/2/2010
USERNAME => s121614
DGN FILE => 1000000229pq005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1455
PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	248	486

P. Sri Lakshmi 12/24/12
REGISTERED CIVIL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — SRILAKSHMI SAKHAMURI — No. 76343 — Exp. 12/31/2014 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

REMOVE TREES (N)

LOCATION	STATION	TYPE OF TREE	TREE Dia. (in)	No. OF TREES
L-1	"NY" 39+45.52 (26.11 R†)	PALM	8	1
	"NY" 45+48.77 (26.41 R†)	PALM	14	1
	"NY" 48+42.51 (25.09 R†)	PALM	20	1
L-3	"A1" 892+15.24 (82.45 L†)	POPLAR	10	1
	"A1" 892+15.90 (73.32 L†)	POPLAR	6	1
	"A1" 892+25.45 (77.22 L†)	POPLAR	14	1
	"A1" 892+33.76 (72.62 L†)	POPLAR	14	1
	"A1" 892+42.30 (69.41 L†)	POPLAR	16	1
	"A1" 892+51.83 (65.23 L†)	POPLAR	30	1
	"A1" 892+61.01 (60.68 L†)	POPLAR	30	1
	"A1" 892+68.15 (62.98L†)	OAK	3	1
	"A1" 892+56.13 (74.94 L†)	GUM	4	1
	"A1" 892+69.37 (71.04 L†)	GUM	4	1
	"A1" 892+86.32 (76.22 L†)	GUM	2	1
	"A1" 892+91.67 (82.54 L†)	GUM	1	1
L-6	"NY" 31+89.88 (36.08 R†)	ASH	20	1
	"NY" 35+09.33 (40.21 L†)	PALM	20	1
L-7	"NY" 51+26.27 (29.25 R†)	PALM	36	1
TOTAL				18

HOT MIX ASPHALT DIKE

LOCATION		STATION	PLACE HMA DIKE (TYPE C) LF	PLACE HMA DIKE (TYPE E) LF	PLACE HMA DIKE (TYPE F) LF	HMA (TYPE A) TON	TACK COAT TON
"NA"	R†	873+18.46 TO 875+73.10		208.6		5.42	0.008
"NA"	R†	875+73.10 TO 876+48.55	62.5			0.48	0.001
"NA"	R†	876+48.55 TO 876+77.71			25.0	0.33	0.001
"A3"	L†	911+53.00 TO 911+78.00			25.0	0.33	0.001
"A3"	L†	911+78.00 TO 912+40.50	62.5			0.48	0.001
"A3"	L†	914+39.65 TO 914+77.15			37.5	0.50	0.001
"A3"	L†	914+77.15 TO 915+39.65	62.5			0.48	0.001
"A3"	L†	912+40.50 TO 924+80.25		1148.0		29.85	0.042
"A4"	R†	923+98.11 TO 923+78.39		988.3		25.70	0.037
"A"	L†	940+80.75 TO 941+17.37			37.5	0.50	0.001
"A"	L†	941+17.37 TO 941+78.33	62.5			0.48	0.001
TOTAL			250.0	2344.9	125.0	64.55*	0.093*

* - QUANTITY INCLUDED IN PAVEMENT STRUCTURE QUANTITIES IN Q-1

(N)- NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SHOULDER RUMBLE STRIP (CONCRETE PAVEMENT, GROUND-IN INDENTATIONS)

SHEET No.	LINE	STATION	QUANTITY Sta
L-4 TO L-5	"A3"	911+53.49 TO 924+80.12	14
L-4 TO L-5	"A4"	911+06.07 TO 923+78.25	13
TOTAL			27

TEMPORARY FENCE AND GATE

SHEET No.	TEMPORARY FENCE (TYPE CL-6) LF	TEMPORARY FENCE (TYPE ESA) LF	TEMPORARY FENCE TYPE (ELECTRIC) LF	TEMPORARY GATE EA
WPC-1	911			2
WPC-2		349	929	
WPC-3	2200	63		2
WPC-4	430			
WPC-6	127			
TOTAL	3668	412	929	4

TEMPORARY WATER POLLUTION CONTROL

SHEET No.	STATION	Temp DRAINAGE INLET PROTECTION EA	Temp FIBER ROLL LF	Temp SILT FENCE LF	Temp REINFORCED SILT FENCE LF	Temp HYDRAULIC MULCH SQYD	Temp COVER SQYD	Temp CHECK DAM LF	Temp CONSTRUCTION ROADWAY SQYD	Temp GRAVEL BAG BERM LF	Temp CONTRUCTION ENTRANCE EA
WPC-1	"NY" 37+50 TO 50+50	10	2237	2,512		27,860	12,000			330	2
	"NA" 871+00 TO 879+50	11									
WPC-2	"NA" 879+50 TO 890+50	11		2,264	96	8,367	8,050				3
WPC-3	"A1" 890+50 TO 903+50	10		2,254	370	14,165	19,500	180	3030		3
WPC-4	"A1" 903+50 TO 917+50	29	3231	3,424		27,852	34,500	72	2139		
WPC-5	"A1" 917+50 TO 931+50	5	670	726		7,520	9,300				
WPC-6	"NY" 21+13 TO 37+50	7		148						1,676	
WPC-7	"NY" 50+50 TO 60.00	6									
	"TL" 28+50 TO 32+00	3									
WPC-8	"TL" 10+50 TO 20+00	2									
TOTAL		94	6138	11,328	466	85,764	83,350	252	5169	2,006	8

SUMMARY OF QUANTITIES

Q-6

REVISED BY	SRILAKSHMI SAKHAMURI	CALCULATED-DESIGNED BY	CONSULTANT FUNCTIONAL SUPERVISOR	STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans
DATE REVISED	PRAVEEN CHILAKAPATI	CHECKED BY	KEITH MEYER		

PLOTTED => 23-JUL-2013 09:47
LAST REVISION 00-00-00 DI TIME

BORDER LAST REVISED 7/2/2010 | USERNAME => s119571 DGN FILE => 1000000229pa006.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1455 | PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	252	486

David W. Clow 12/24/12
REGISTERED ELECTRICAL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID W. CLOW
No. 12883
Exp. 12/31/14
ELECTRICAL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ALLIANCE ENGINEERING CONSULTANT, INC.
4701 PATRICK HENRY DR., #10
SANTA CLARA, CA 95054

SJCOG
555 E. WEBER Ave
STOCKTON, CA 95202-2804

SYMBOLS:

PROPOSED EXISTING

C — C — CITY ELECTROLIER, 200 W HPS
SEE SHEET E-44 THRU E-47 FOR DETAILS

A — DETECTOR DESIGNATION
4 — NUMBER OF LOOPS

ABBREVIATIONS:

AT&T	AMERICAN TELEPHONE AND TELEGRAPH COMPANY
LIU	LINE INTERFACE UNIT
PG&E	PACIFIC GAS AND ELECTRIC
PTZ	PAN TILT ZOOM
XXSMFO	SINGLEMODE FIBER OPTIC CABLE, XX = No. OF FIBERS
TS	TRAFFIC SIGNAL
VEU	VIDEO ENCODER UNIT
COAX	COAXIAL CABLE

INDEX TO ELECTRICAL PLANS

PLAN No.	TITLE
E-1	SYMBOLS, ABBREVIATIONS AND INDEX OF ELECTRICAL PLANS
E-2	LEGEND
E-3 THRU E-9	LIGHTING AND SIGN ILLUMINATION
E-10 THRU E-14	LIGHTING (CITY OF STOCKTON)
E15	LIGHTING (COUNTY)
E-16	TRAFFIC MONITORING STATION
E-17 THRU E-19	SIGNAL AND LIGHTING (LOCATION 1)
E-20 AND E-21	SIGNAL AND LIGHTING (CITY OF STOCKTON)
E-22 THRU E-25	SIGNAL AND LIGHTING (LOCATION 2)
E-26 THRU E-29	COMMUNICATION CONDUIT
E-30 THRU E-35	FIBER OPTIC SYSTEM
E-36 AND E-37	SIGNAL AND LIGHTING (STAGE CONSTRUCTION)
E-38 THRU E-50	ELECTRICAL DETAILS
E-51 THRU E-55	ELECTRICAL QUANTITIES

SYMBOLS, ABBREVIATIONS AND INDEX OF ELECTRICAL PLANS

E-1

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KEN NGAI
CALCULATED-DESIGNED BY: HENRY ROBINO
CHECKED BY: DAVID CLOW
REVISED BY
DATE REVISED

LAST REVISION 12-24-12
D... ...TTED => 23-JUL-2013
TIME PLOTTED => 09:47

BORDER LAST REVISED 7/2/2010
USERNAME => s119571
DGN FILE => 1000000229ua001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1455
PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	253	486

David W. Clow 12/24/12
REGISTERED ELECTRICAL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID W. CLOW No. 12883 Exp 12/31/14 ELECTRICAL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ALLIANCE ENGINEERING CONSULTANT, INC.
4701 PATRICK HENRY DR., #10
SANTA CLARA, CA 95054

SJCOG
555 E. WEBER Ave
STOCKTON, CA 95202-2804

LEGEND:

1A 120/240 V, 1 ø, 3-WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

NAVY Dr & SR004R
CTID No. 1029004R014610S — METER 1

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PEC TYPE
100	240	2	MAIN	YES	-
50	120	1	TRAFFIC SIGNAL	YES	-
50	120	1	TMS	YES	-
15	120	1	FB	YES	-
20	120	1	SPARE	YES	-
20	120	1	SPARE	YES	-

NAVY Dr & SR-004R
CTID No. 1029004R014610L — METER 2

100	240	2	MAIN	YES	-
30	240	2	INTERSECTION LTG	YES	-
40	240	2	HIGHWAY LTG #1	YES	-
40	240	2	HIGHWAY LTG #2	YES	-
15	120	1	LTG CONTROL	YES	V
20	120	1	SPARE	YES	-

1B 120/240 V, 1 ø, 3-WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

TILLIE LEWIS DR & CHARTER WAY
CTID No. 10290040014710S — METER 1

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PEC TYPE
100	240	2	MAIN	YES	-
50	120	1	TRAFFIC SIGNAL	YES	-
20	120	1	EMS	YES	-
15	120	1	FB	YES	-
20	120	1	SPARE	YES	-
20	120	1	SPARE	YES	-

TILLIE LEWIS Dr & CHARTER WAY
CTID No. 10290040014710L — METER 2

100	240	2	MAIN	YES	-
30	240	2	INTERSECTION LTG	YES	-
15	120	1	LTG CONTROL	YES	V
20	120	1	SPARE	YES	-

1C 120/240 V, 1 ø, 3-WIRE, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:
SONORA St & ORANGE St
Existing SJ-004-1572
CTID No. 1029004R015720C

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PEC TYPE
100	240	2	MAIN	YES	-
30	240	2	HIGHWAY LTG	YES	-
30	240	2	SIGN LTG	YES	-
15	120	1	LTG CONTROL	YES	V
20	120	1	SPARE	YES	-
15	120	1	FLASHING BEACON	YES	-

1D 120/240 V, 1 ø, 3-WIRE, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:
SONORA St & S YOSEMITE St
Existing SJ-004-1547
CTID No. 1029004R015470C

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PEC TYPE
100	240	2	MAIN	YES	-
30	240	2	HIGHWAY LTG	YES	-
30	240	2	SIGN LTG	YES	-
15	120	1	LTG CONTROL	YES	V
20	120	1	SPARE	YES	-
15	120	1	FLASHING BEACON	YES	-

2A TYPE III-AF CITY SERVICE EQUIPMENT ENCLOSURE. SEE DETAIL 1 ON SHEET E-40. SEE ES-2D FOR FOUNDATION DETAIL

2B TYPE III-AF CITY SERVICE EQUIPMENT ENCLOSURE. SEE DETAIL 2 ON SHEET E-40.

3 2"C, 3#2 (SERVICE, 120/240 V)

4 3"C, MT (CONDUCTORS BY PG&E)

5 PULL BOX PER SERVICE UTILITY REQUIREMENTS. COVER SHALL BE MARKED "PG&E" SC BY PG&E.

6 PULL BOX WITHIN 5'-0" OF SERVICE EQUIPMENT ENCLOSURE. COVER SHALL BE MARKED "CALTRANS/PG&E".

7 2"C, 2#8 (LIGHTING CITY, 240 V), 1#8 G

8 1"C, 2#10 (SOFFIT Ltg CITY, 240 V), 1#10 G

9 CONDUIT EXPANSION FITTING IN ALL CONDUIT PASSING THROUGH EXPANSION JOINTS PER DETAIL X ON ES-9B.

10 No. 8 PULL BOX WITH BALLAST AND FUSED SPLICE CONNECTOR PER ES-9C AND ES-9E.

11 3"C, 3#2 (STATE)

12 3"C, 3#2 (CITY)

13 NOT USED.

14 2"C, 2#6 (LIGHTING, 240 V), 2#8 (SIGN LIGHTING, 240 V), 2#8 (FLASHING BEACON, 120 V)

15 2"C, MT INTO AT&T PULL BOX. (1-24 SMFO BY AT&T), COORDINATE WITH AT&T.

16 Exist 2"C, RC ALL CONDUCTORS
INSTALL 2#6 (LIGHTING, 240 V), 2#8 (SIGN LIGHTING, 240 V), 2#8 (FLASHING BEACON, 120 V)

17 RC Exist TYPE F SERVICE AND INSTALL A NEW 120/240 V TYPE F SERVICE WITH A 30 A / 2 POLE CIRCUIT BREAKER.

18 RC PULL BOX, INSTALL No. 5(T) PULL BOX.

19 2½"C, 1-24SMFO

19A 2½"C, 2-12SMFO

20 2"C, 2#8 (FLASHING BEACON, 120 V), 2#8 (SIGN LIGHTING, 240 V)

21 NOT USED.

22 2"C, 2#8 (LTG COUNTY, 120 V), 1#8 G

23 NOT USED.

24 2"C, 1-12SMFO

25 NOT USED.

26 2"C, 2#8 (LIGHTING CITY, 240 V), 2#10 (Ped FB, 120 V), 1#8 G

27 2"C, 2#6 (LIGHTING, 240 V)

27A 2"C, 2#8 (FB, 120 V), 2#6 (LIGHTING, 240 V)

28 RS Exist SIGN ltg FIXTURES AND ltg CONTROL AND INSTALL NEW SIGN LTG FIXTURES AND LTG CONTROL AS SHOWN.

28A RS Exist 4 SIGN ltg FIXTURES AND INSTALL 4 NEW SIGN LTG FIXTURES EVENLY SPACED AS SHOWN.

28B RS Exist 3 SIGN ltg FIXTURES AND ltg CONTROL. INSTALL NEW SIGN LTG FIXTURES AND LTG CONTROL AS SHOWN.

29 NOT USED.

30 MODEL 334L CABINET WITH WIRELESS MODEM, DEPARTMENT-FURNISHED 2070E CONTROLLER UNIT AND LOOP DETECTOR SENSOR UNITS. INSTALL FOUNDATION PER STANDARD PLAN ES-3C.

31 DEPARTMENT-FURNISHED MODEL 2070E CONTROLLER ASSEMBLY, MODEL 332L CABINET, BATTERY BACKUP SYSTEM, CONTRACTOR-FURNISHED EXTERNAL BATTERY BACKUP CABINET AND BATTERIES.

32 2"C, 2#8 (FB, 120 V), 2#8 (EMS, 120 V), 1 DLC

33 2"C, 2#8 (EMS, 120 V)

34 END OF FREEWAY SIGN WITH FLASHING BEACON PER ES-14C, FLASHING BEACON CONTROL ASSEMBLY PER ES-14B DETAIL B AND SIGN LIGHT. SEE SIGN PLANS FOR SIGN DETAILS.

35 SIGNAL AHEAD SIGN, TYPE 9B FLASHING BEACON WITH W3-3 SIGN, SIGN LIGHT FIXTURE AND FLASHING BEACON CONTROL ASSEMBLY. SEE ES-7K, ES-7L AND ES-14B DETAIL B.

36 SIGNAL AHEAD SIGN, TYPE 9B FLASHING BEACON WITH W3-3 SIGN, SIGN LIGHT FIXTURE AND FLASHING BEACON CONTROL ASSEMBLY. SEE ES-7K, ES-7L AND ES-14B DETAIL B. SEE CIVIL PLANS FOR FOUNDATION DETAILS.

37 SIDEWALK REMOVAL SHALL BE TO THE NEAREST SCORE MARK OR AS DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL NEATLY SAWCUT CONCRETE WHERE PULL BOXES ARE TO BE PLACED AND SHALL RESTORE THE SLAB TO MATCH THE EXISTING CONDITION.

38 3"C, MT (COMM)

39 3"C, MT (COMM)
2"C, MT (SPARE)

40 RC 2#8 FB CONDUCTORS BACK TO Exist SERVICE EQUIPMENT ENCLOSURE NEAR THE SE CORNER OF CHARTER WAY AND FRESNO St, Approx DISTANCE = 400 FT.

41 CALTRANS TYPE 15 ELECTROLIER WITH 100 W HPS LUMINAIRE.

42 2"C, 2#8 (FB, 120 V)

43 2"C, 2#8 (LIGHTING CITY, 240 V), 2#10 (Ped FB, 120 V), 8#14 (FB, 120 V), 8#18 (PPB CABLE), 1#8 G

44 2"C, 2#8 (EMS, 120 V), 2#8 (FB, 120 V)

45 MODIFIED R73-8. SEE DETAIL C ON SHEET E-19.

46 CONDUIT IN BARRIER. SEE STRUCTURAL PLANS.

47 LOOP DETECTORS SHALL BE SPACED 20 FT LEADING EDGE TO LEADING EDGE.

48 EMS (LED) ON WOOD POLE. SEE DETAILS ON SHEET E-39.

49 COORDINATE WITH PG&E

50 2"C, 2#8 (SIGN LIGHTING, 240 V)

51 4"C, 2-12SMFO
4"C, MT (SPARE)
FIBER OPTIC CONDUIT UNDER RAILWAY TRACKS BETWEEN PULL BOXES LOCATED 50 FT EACH SIDE OF THE TRACK USING DIRECTIONAL DRILLING METHOD.

REVISED BY	DATE REVISED
HENRY ROBINO	DAVID CLOW

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KEN NGAI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 12-24-12
DATE PLOTTED => 23-JUL-2013
TIME PLOTTED => 09:47

LEGEND

E-2

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	266	486

David W. Clow 12/24/12
REGISTERED ELECTRICAL ENGINEER DATE

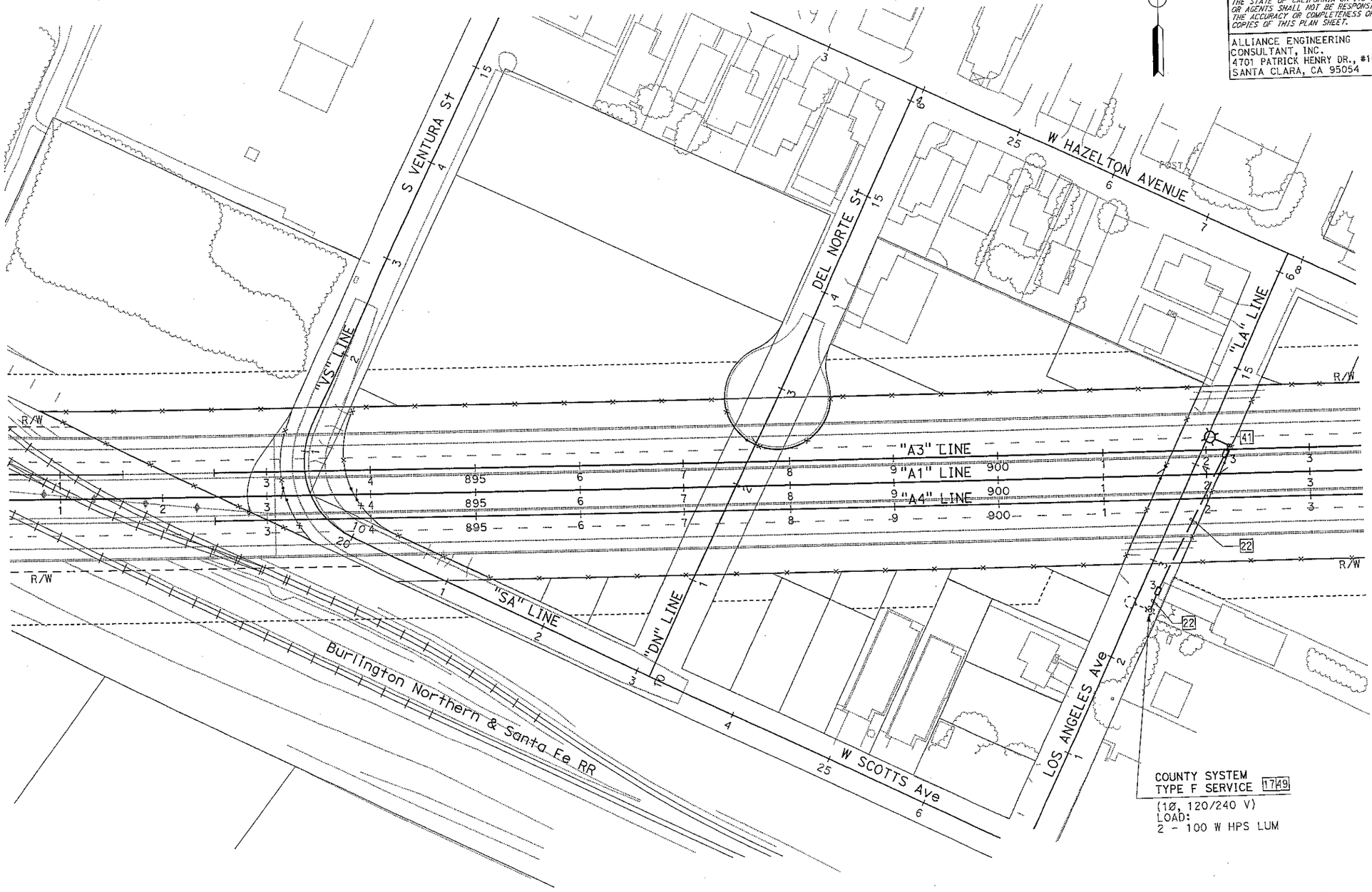
7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID W. CLOW
No. 12883
Exp. 12/31/14
ELECTRICAL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ALLIANCE ENGINEERING CONSULTANT, INC.
4701 PATRICK HENRY DR., #10
SANTA CLARA, CA 95054

SJCOG
555 E. WEBER Ave
STOCKTON, CA 95202-2804



LIGHTING (COUNTY)

SCALE: 1" = 50'

E-15

APPROVED FOR ELECTRICAL WORK ONLY

CALCULATED-DESIGNED BY	HENRY ROBINO	
CHECKED BY	DAVID CLOW	DATE REVISED
CONSULTANT FUNCTIONAL SUPERVISOR	KEN NGAI	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans	

LAST REVISION 12-24-12 | D: | TIME PLOTTED => 08:56 | PLOTTED => 23-JUL-2013

BORDER LAST REVISED 7/2/2010

USERNAME => s114640
DGN FILE => 1000000229ua015.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1455

PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	287	486

S. Sri Lakshmi 12/24/12
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
SRILAKSHMI SAKHAMURI
No. 76343
Exp. 12/31/2014
CIVIL
STATE OF CALIFORNIA

7-22-13
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

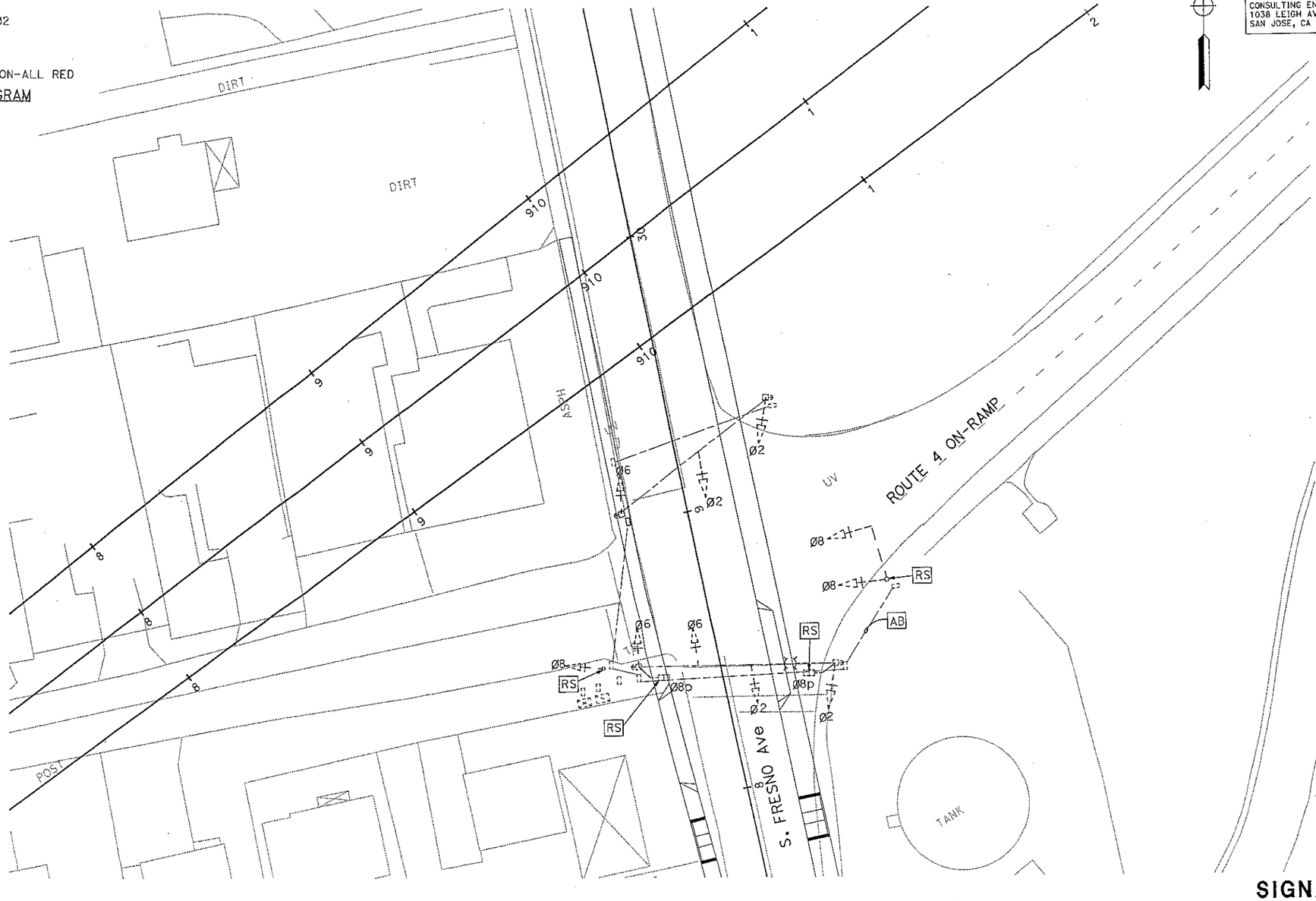
SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. WHEN NO LONGER REQUIRED ALL ABOVE GROUND ELECTRICAL EQUIPMENT SHALL BE REMOVED. PULL BOXES AND FOUNDATIONS SHALL BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR AND CONDUIT SHALL BE ABANDONED.

Ø2
Ø6
FLASHING OPERATION-ALL RED

PHASE DIAGRAM



STAGE 1

SIGNAL AND LIGHTING
(STAGE CONSTRUCTION)

SCALE: 1"=20'

E-36

LAST REVISION 00-00-00
DATE PLOTTED => 23-JUL-2013
TIME PLOTTED => 08:57

APPROVED FOR ELECTRICAL WORK ONLY

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: SRILAKSHMI SAKHAMURI
CHECKED BY: MARTHA DADALA
CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

BORDER LAST REVISED 7/2/2010
USERNAME => s114640
DGN FILE => 1000000229ua036.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1455
PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	288	486

S. Sri Lakshmi 12/24/12
REGISTERED CIVIL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SRILAKSHMI SAKHAMURI No. 76343 Exp. 12/31/2014 CIVIL STATE OF CALIFORNIA

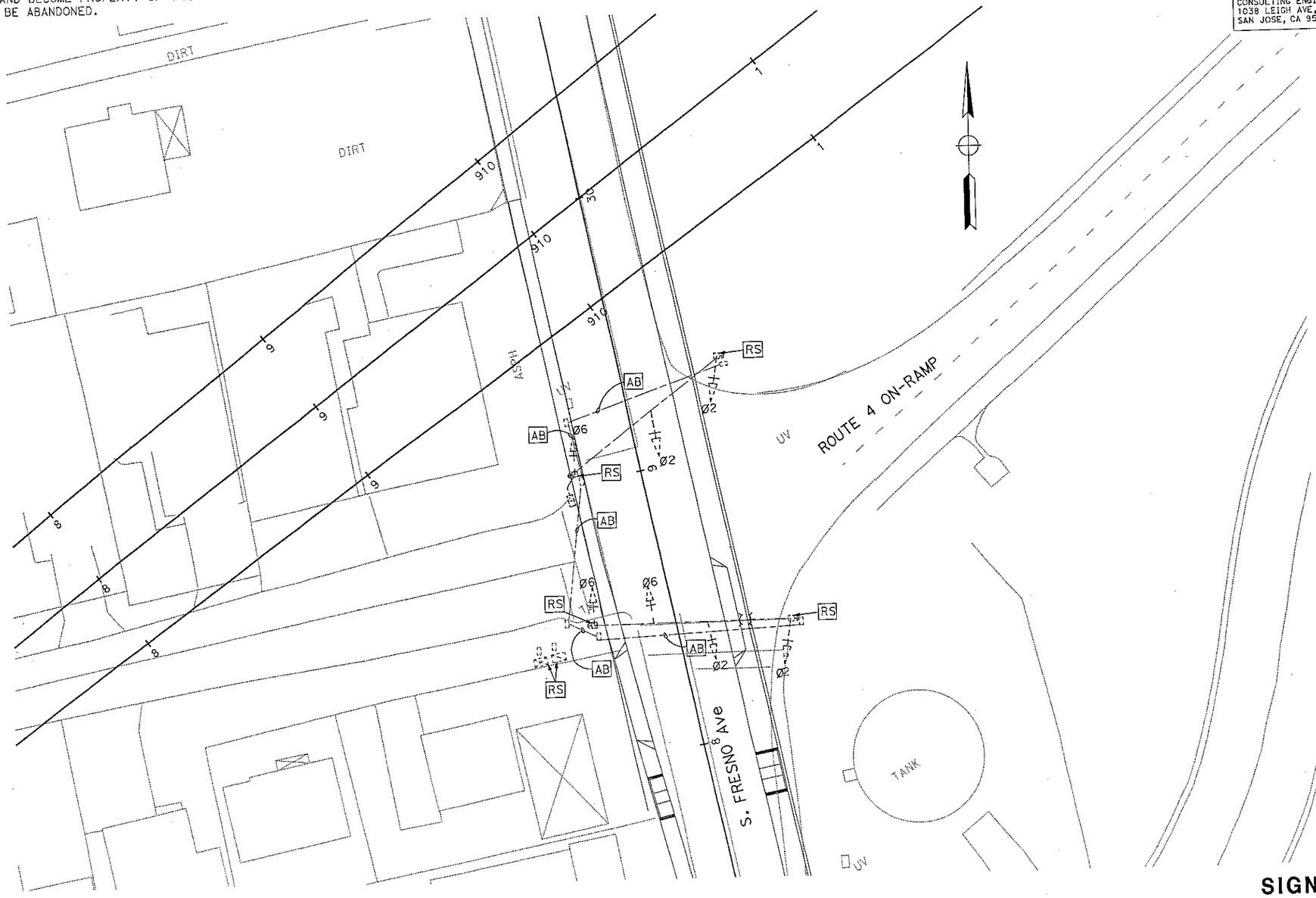
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REMOVE AND SALVAGE THE TRAFFIC SIGNAL EQUIPMENT.
3. WHEN NO LONGER REQUIRED ALL ABOVE GROUND ELECTRICAL EQUIPMENT SHALL BE REMOVED. PULL BOXES AND FOUNDATIONS SHALL BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR AND CONDUIT SHALL BE ABANDONED.



STAGE 5

SIGNAL AND LIGHTING (STAGE CONSTRUCTION)

SCALE: 1"=20'

E-37

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KEITH MEYER
CALCULATED-DESIGNED BY: SRILAKSHMI SAKHAMURI
CHECKED BY: MARTHA DADALA
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 23-JUL-2013
TIME PLOTTED => 08:57

BORDER LAST REVISED 7/2/2010
USERNAME => s114640
DGN FILE => 1000000229ua037.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1455
PROJECT NUMBER & PHASE 10000002291

NOTE:

THE QUANTITIES ON THIS SHEET ARE NOT SEPARATE PAY ITEMS AND ARE FOR INFORMATION ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	303	486

David W. Clow 12/24/12
REGISTERED ELECTRICAL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID W. CLOW No. 12883 Exp. 12/31/14 ELECTRICAL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ALLIANCE ENGINEERING CONSULTANT, INC.
4701 PATRICK HENRY DR., #10
SANTA CLARA, CA 95054

SJCOG
555 E. WEBER Ave
STOCKTON, CA 95202-2804

LIGHTING (COUNTY)

SHEET No.	Std TYPE 15	Lum 100 W HPS	Std FOUNDATION 15	TYPE F SERVICE	PULL BOX No. 3	1½" CONDUIT TYPE 1 IN FOUNDATION TO PULL BOX	2" CONDUIT TYPE 3 IN TRENCH	CONDUCTOR #8	CONDUCTOR #14	CONDUCTOR #8 BARE COPPER SOFT DRAWN	TRENCHING AND BACKFILLING 30" DEEP AND COVER
	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	LF
E-15	1	1	1	1	2	10	200	400	150	200	180

LIGHTING (CITY OF STOCKTON)

SHEET No.	Std ELECTROLIER	Lum 200 W HPS	Lum PENDANT SOFFIT 70 W HPS	Std FOUNDATION	TYPE F SERVICE	TYPE H SERVICE	PED FLASHING BEACON ON 12' POLE	PED FLASHING BEACON ON STREET LIGHT POLE	TYPE III SERVICE Fdn AND ANCHOR BOLTS	TYPE III-A SERVICE ENCLOSURE (ES-2D)	PULL BOX No. 3	PULL BOX No. 5	PULL BOX No. 8	1" CONDUIT TYPE 3 IN TRENCH	2" CONDUIT TYPE 3 IN TRENCH	3" CONDUIT TYPE 3 IN TRENCH	1½" CONDUIT TYPE 1 IN FOUNDATION TO PULL BOX	1" CONDUIT TYPE 1 IN STRUCTURE	CONDUCTOR #8	CONDUCTOR #10	CONDUCTOR #14	CONDUCTOR #8 BARE COPPER SOFT DRAWN	TRENCHING AND BACKFILLING 30" DEEP AND COVER
	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
E-10	9	9	-	9	-	-	-	-	-	-	9	-	-	-	1,200	-	100	-	2,600	-	900	1,300	1,150
E-11	8	8	-	8	-	-	-	-	-	-	8	-	-	-	1,500	-	100	-	3,300	-	800	1,650	1,400
E-12	2	2	-	2	-	-	-	-	-	-	2	-	-	-	400	-	25	-	850	-	200	425	400
E-13	1	1	-	1	1	-	-	-	-	-	2	-	-	-	300	-	15	-	600	-	100	300	250
E-14	3	-	2	-	-	1	1	1	1	1	5	2	2	120	700	100	15	200	1,700	350	300	900	625

ELECTRICAL QUANTITIES

E-52

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY	DATE REVISED
Caltrans	KEN NGAI	CHECKED BY	HENRY ROBINO	DAVID CLOW

LAST REVISION 12-24-12 | DATE PLOTTED => 23-JUL-2013 | TIME PLOTTED => 08:58

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => 1000000229ud052.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1455 | PROJECT NUMBER & PHASE 10000002291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	306	486

P. Sri Lakshmi — 9/4/12
REGISTERED CIVIL ENGINEER — DATE

7-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — SRILAKSHMI SAKHAMURI — No. 76343 — Exp. 12/31/2014 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

RAJAPPAN & MEYER
CONSULTING ENGINEERS INC.
1038 LEIGH AVE, SUITE 100
SAN JOSE, CA 95126

SJCOG
555 E. WEBER AVE.
STOCKTON, CA 95202-2804

NOTE:

THE QUANTITIES ON THIS SHEET ARE NOT SEPARATE PAY ITEMS AND ARE FOR INFORMATION ONLY.

SIGNAL AND LIGHTING (STAGE CONSTRUCTION)

SHEET No.	RS TYPE 16-1-100 POLE	RS TYPE III CABINET, COORDINATE WITH PG&E	RS SIGNAL CABINET	RS TYPE 1-B POLE	RS WOOD SIGNAL POLE	RS SIGNAL HEADS	RS PED HEADS	REMOVE PULL BOXES	REMOVE CONCRETE PAD WITH 2-PULL BOXES	REMOVE WIRING NO LONGER NEEDED	REPAIR SIDEWALK AND GRADE TO MATCH EXISTING
	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
E-36	1					3	2	1			
E-37		1	1	1	4	6		6	1	1	1

SIGNAL AND LIGHTING (LOCATION 2)

SHEET No.	RS Exist SIGN TYPE 9B	RC Exist PULL BOX
	EA	EA
E-25	1	1

TRAFFIC MONITORING STATION

SHEET No.	3" CONDUIT TYPE 1	2" CONDUIT TYPE 1	DETECTOR LOOP TYPE A (6'X6')	DLC	No. 5 (T) PULL BOX
	LF	LF	EA	LF	EA
E-16	500	450	20	6,750	8

SIGNAL AND LIGHTING (LOCATION 2)

SHEET No.	TYPE III CF SERVICE CABINET	TYPE III CF SERVICE CABINET FOUNDATION	MODEL 332L CONTROLLER CABINET FOUNDATION	POLE TYPE 1-A	POLE TYPE 15TS	POLE TYPE 18-4-100 WITH 20ft MAST ARM	POLE TYPE 19-4-100 WITH 30ft MAST ARM	POLE TYPE 24-4-100 WITH 35ft MAST ARM	POLE TYPE 1-A CIDH PILE	POLE TYPE 15TS CIDH PILE	POLE TYPE 18-4-100 CIDH PILE	POLE TYPE 19-4-100 CIDH PILE	POLE TYPE 24-4-100 CIDH PILE	POLE TYPE 9B	POLE TYPE 9B CIDH PILE	SIGNAL HEAD & BACKPLATE 12" R,Y,G	SIGNAL HEAD & BACKPLATE 12" R,Y,G (ARROW)	4" CONDUIT TYPE 1	3" CONDUIT TYPE 1	2" CONDUIT TYPE 1	4" CONDUIT TYPE 3	3" CONDUIT TYPE 3	2" CONDUIT TYPE 3	DETECTOR LOOP TYPE A (6'X6')	INDUCTIVE DETECTOR LOOP TYPE D (6'X6')	PTZ CAMERA	165 W LED LUMINAIRE	CONDUCTOR No. 8	CONDUCTOR No. 6	12CSC	EVC	CCTV CABLE	DLC	EVD	EMS	No. 5 PULL BOX	No. 5(T) PULL BOX	No. 6(T)(E) PULL BOX	INSTALL SIGN	BATTERY BACK-UP
	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA
E-22				2	1	1	1	1	2	1	1	1	1			7	6	10	6	4	330	270	840	30	6	1	3	1,700		1,100	625	320	5,950	3		1	13	5	6	1
E-23	1	1	1															20										40	20	60	30	10	250				1	3		
E-24														1	1								625					1,700					50		2		6			

ELECTRICAL QUANTITIES

E-55

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CALCULATED-DESIGNED BY	SRILAKSHMI SAKHAMURI	REVISED BY	CONSULTANT FUNCTIONAL SUPERVISOR
Caltrans	CHECKED BY	MARTHA DADALA	DATE REVISED	KEITH MEYER

LAST REVISION 00-00-00 — PLOTTED => 23-JUL-2013 08:58

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => 1000000229ua055.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1455 | PROJECT NUMBER & PHASE 10000002291