Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	782	

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. 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.

WMH CORPORATION
11070 WHITE ROCK RD
SUITE 140
RANCHO CORDOVA
CA 95670

SOLANO TRANSPORATION AUTHORITY
1 HARBOR CENTER
SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

ROADSIDE SIGN QUANTITIES

SHEET No.	SIGN No.	SIGN DESIGNATION FEDERAL	SIGN DESIGNATION CALIFORNIA	SIGN PANEL SIZE INCHES	"C" DIM IN FEET	POST SIZE AND LENGTH 4" X 4" FT	4" X 6" FT	6" X 6" FT	6" X 8" FT	LAMINATED WOOD BOX TYPE M FT	LAMINATED WOOD BOX TYPE L FT	ROADSIDE SIGN (WOOD POST) ONE POST EA	ROADSIDE SIGN (WOOD POST) TWO POST EA	ROADSIDE SIGN (LAMINATED WOOD BOX) TWO POST EA	INSTALL SIGN (SSBM) EA	REMOVE ROADSIDE SIGN (SSBM) EA	REMOVE ROADSIDE SIGN EA	RELOCATE EXISTING ROADSIDE SIGN EA	TYPE 1 PEDESTRIAN BARRICADE (WITH SIGN MOUNT) EA	METAL (BARRIER MOUNTED SIGN) LB	REMARKS
S-1	S1-01		R81 (CA)														1				
			R81B (CA)																		
	S1-02		R26 (CA)													1					
	S1-03		R26 (CA)	12 x 18	7	12′						1									
	S1-04		R26 (CA)													1					
	S1-05		R26 (CA)	12 x 18	7	12′						1									
	S1-06	R1-1															1				
	S1-07	R1-1		36 x 36			14.5′					1									
	S1-08	R4-7		24 x 30	7	13′						1									
			TYPE N-1 (CA)	18 x 18																	
	S1-09		R26 (CA)														1				
			R81 (CA)																		
	S1-10		R26 (CA)	12 x 18	7	13′						1									
			R81 (CA)	12 x 8																	
	S1-11	R2-1 (35)		30 x 36	7		14.5′					1									
	S1-12	R2-1 (35)														1					
	S1-13	W3-3		30 x 30	5		13.5′					1									
			R26 (CA)	12 x 18																	
	S1-14	W3-3															1				
			R26 (CA)																		
	S1-15		SIX FLAGS PARKING										1				1	1			
	S1-16		R26 (CA)														1				
			R81 (CA)																		
	S1-17		R26 (CA)	12 x 18	7	13′						1									
			R81 (CA)	12 x 8																	
	S1-18	R3-2															1				
	S1-19	R3-2		36 x 36	7		14.5′					1									
	S1-20		BUS STOP														1				RELOCATE TO S2-07
	S1-21	R5-10c		24 x 12	3														1		
	S1-22	R5-10c		24 x 12	3														1		
	S1-23		R81 (CA)	12 x 8	7	13′						1									
	S1-24	R6-1 (R+)		54 x 18	7	12′						1									
	S1-25	W1-7															1				
		OM1-3																			
S-2	S2-01		R26 (CA)	12 x 18	7	12′						1									
	S2-02		R26 (CA)														1				
	S2-03	R3-4															1				
		R3-4																			
	S2-04	R3-4		36 x 36	7		14.5′					1									FACING NB TRAFFIC
		R3-4		36 x 36																	FACING SB TRAFFIC
	S2-05	R3-4		36 x 36	7		14.5′					1									
SHEET TOTAL SQ-1												14	1			3	11	1	2		

SIGN QUANTITIES

SQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CARL GIBSON III

CALCULATED-DESIGNED BY: RALEIGH LANGSTON | CHECKED BY: CARL GIBSON III

REVISED BY: R.L. | DATE REVISED: 02/15/22

X:\SR 37_FAIRGROUNDS DRIVE\000_CAD\Sheets\027-Signs\00-Quantities\044A4414od001.dgn

LAST REVISION 00-00-00 | DATE PLOTTED => 2/8/2022 | TIME PLOTTED => 4:52:36 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	782	

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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SUITE 140
RANCHO CORDOVA
CA 95670

SOLANO TRANSPORATION AUTHORITY
1 HARBOR CENTER
SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

ROADSIDE SIGN QUANTITIES

SHEET No.	SIGN No.	SIGN DESIGNATION FEDERAL	SIGN DESIGNATION CALIFORNIA	SIGN PANEL SIZE INCHES	"C" DIM IN FEET	POST SIZE AND LENGTH 4" X 4" FT	4" X 6" FT	6" X 6" FT	6" X 8" FT	LAMINATED WOOD BOX TYPE M FT	LAMINATED WOOD BOX TYPE L FT	ROADSIDE SIGN (WOOD POST) ONE POST EA	ROADSIDE SIGN (WOOD POST) TWO POST EA	ROADSIDE SIGN (LAMINATED WOOD BOX) TWO POST EA	INSTALL SIGN (SSBM) EA	REMOVE ROADSIDE SIGN (SSBM) EA	REMOVE ROADSIDE SIGN EA	RELOCATE EXISTING ROADSIDE SIGN EA	TYPE 1 PEDESTRIAN BARRICADE (WITH SIGN MOUNT) EA	METAL (BARRIER MOUNTED SIGN) LB	REMARKS
S-2	S2-06	R3-4														1					
	S2-07		BUS STOP									1						1			RELOCATED FROM S1-20
	S2-08		R26 (CA)														1				
	S2-09		R26 (CA)	12 x 18	7	12′						1									
	S2-10		SIX FLAGS PARKING												1	1		1			
	S2-11		SIX FLAGS PARKING									1					1	1			
	S2-12		R26 (CA)														1				
	S2-13		R26 (CA)	12 x 18	7	12′						1									
	S2-14		R26 (CA)														1				
	S2-15		R26 (CA)	12 x 18	7	12′						1									
	S2-16	R1-1															1				
	S2-17	R1-1		36 x 36	7		14.5′					1									
	S2-18		G24-3 Mod (CA)	120 x 84	5						29′			1							
			G24-3 Mod (CA)	120 x 66																	
	S2-19		R18B (CA)	36 x 36	7		14.5′					1									
	S2-20	R10-7															1				
			R26 (CA)																		
	S2-21	R10-7		24 x 30	7		15.5′					1									
			R26 (CA)	12 x 18																	
	S2-22	R2-1 (30)															1				
			R26 (CA)																		
	S2-23	W12-2															1				
			W34A (CA)																		
	S2-24	R2-1 (30)		30 x 36	7		16′					1									
			R26 (CA)	12 x 18																	
	S2-25	W12-2 (15′ - 3")		36 x 36	7			17.5′				1									
			W34A (1100 FT)(CA)	36 x 30																	
	S2-26	D3-1 (FAIRGROUNDS DR)															1				
		D3-1 (SAGE ST)																			
	S2-27	R6-1 (R+)		54 x 18	7	12′						1									
	S2-28	W12-2														1					
			W34A (CA)																		
	S2-29		BUS STOP									1						1			RELOCATED FROM S3-11
	S2-30	W12-2 (15′ - 2")		36 x 36	7		16′					1									
			W34A (300 FT)(CA)	36 x 30																	
	S2-31	R1-1															1				
	S2-32	W3-3		30 x 30	7		14′					1									
	S2-33	R5-10c		24 x 12	3														1		
SHEET TOTAL SQ-2												14		1	1	3	10	4	1		

SIGN QUANTITIES

SQ-2

REVISED BY	DATE REVISED	RALEIGH LANGSTON	CARL GIBSON III	CALCULATED-DESIGNED BY	CHECKED BY	CONSULTANT FUNCTIONAL SUPERVISOR	CARL GIBSON III
R.L.	02/15/22						

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	782	

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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WMH CORPORATION
11070 WHITE ROCK RD
SUITE 140
RANCHO CORDOVA
CA 95670

SOLANO TRANSPORATION AUTHORITY
1 HARBOR CENTER
SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

ROADSIDE SIGN QUANTITIES

SHEET No.	SIGN No.	SIGN DESIGNATION FEDERAL	SIGN DESIGNATION CALIFORNIA	SIGN PANEL SIZE INCHES	"C" DIM IN FEET	POST SIZE AND LENGTH 4" X 4" (FT)	4" X 6" (FT)	6" X 6" (FT)	6" X 8" (FT)	LAMINATED WOOD BOX TYPE M (FT)	LAMINATED WOOD BOX TYPE L (FT)	ROADSIDE SIGN (WOOD POST) ONE POST (EA)	ROADSIDE SIGN (WOOD POST) TWO POST (EA)	ROADSIDE SIGN (LAMINATED WOOD BOX) TWO POST (EA)	INSTALL SIGN (SSBM) (EA)	REMOVE ROADSIDE SIGN (SSBM) (EA)	REMOVE ROADSIDE SIGN (EA)	RELOCATE EXISTING ROADSIDE SIGN (EA)	TYPE 1 PEDESTRIAN BARRICADE (WITH SIGN MOUNT) (EA)	METAL (BARRIER MOUNTED SIGN) (LB)	REMARKS
S-2	S2-34	D11-1a		18 x 18	7		12.5′					1									
		D11-1dP		6 x 18																	
	S2-35	D11-1a		18 x 18	7		12.5′					1									
		D11-1dP		6 x 18																	
	S2-36		R49 (CA)	48 x 18	3														1		
S-3	S3-01	R2-1 (25)		30 x 36	7		14.5′					1									
	S3-02		R26 (CA)	12 x 18	7	12′						1									
	S3-03		G24-3 Mod (CA)	144 x 66	7					23′				1							
	S3-04		G24-3 (CA)														1				
			G20-5 (CA)																		
	S3-05		R26 (CA)														1				
	S3-06		G92 (CA)	48 x 30	2			14′				1									
		M3-1 (EAST)		36 x 18																	
			G28-2 (37)(CA)	28 x 24																	
		M6-2a (Rt)		30 x 21																	
	S3-07		G92 (CA)	48 x 30	2			14′				1									
		M3-1 (EAST)		36 x 18																	
			G28-2 (37)(CA)	28 x 24																	
		M6-2a		30 x 21																	
	S3-08	R5-1		36 x 36	2		12′														
		R5-1a		42 x 30																	
	S3-09	W4-5		36 x 36	7		14.5′														
	S3-10	R6-1 (LEFT)		54 x 18	7	12′															
	S3-11		BUS STOP														1				RELOCATED TO S2-29
	S3-12		G92 (CA)														1				
		M3-1 (EAST)																			
			G28-2 (37)(CA)																		
		M6-2a																			
	S3-13	R6-1 (Rt)		54 x 18	7	12′						1									
	S3-14	R3-2		36 x 36	7							1									
	S3-15		G92 (CA)														1				
		M3-1 (EAST)																			
			G28-2 (37)(CA)																		
		M6-2a																			
	S3-16	R4-7		24 x 30	7	13′						1									
	S3-17	R4-7															1				
	S3-18	R3-5a		30 x 36											2						INSTALL ON SIGNAL MAST
		R3-5a		30 x 36																	INSTALL ON SIGNAL MAST
	S3-19	R3-1		36 x 36	7		14.5′					1									FACING NB TRAFFIC
		R3-2		36 x 36																	FACING SB TRAFFIC
	S3-20	R6-1															1				
	S3-21	W12-1		36 x 36	7		14.5′					1									
SHEET TOTAL SQ-3												11		1	2		7		1		

SIGN QUANTITIES

SQ-3

REVISED BY	DATE REVISED
R.L.	02/15/22

RALEIGH LANGSTON — CARL GIBSON III — CALCULATED-DESIGNED BY — CHECKED BY

CARL GIBSON III — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	782	

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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RANCHO CORDOVA
CA 95670

SOLANO TRANSPORATION AUTHORITY
1 HARBOR CENTER
SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

ROADSIDE SIGN QUANTITIES

SHEET No.	SIGN No.	SIGN DESIGNATION FEDERAL	SIGN DESIGNATION CALIFORNIA	SIGN PANEL SIZE INCHES	"C" DIM IN FEET	POST SIZE AND LENGTH 4" X 4" (FT)	4" X 6" (FT)	6" X 6" (FT)	6" X 8" (FT)	LAMINATED WOOD BOX TYPE M (FT)	LAMINATED WOOD BOX TYPE L (FT)	ROADSIDE SIGN (WOOD POST) ONE POST (EA)	ROADSIDE SIGN (WOOD POST) TWO POST (EA)	ROADSIDE SIGN (LAMINATED WOOD BOX) TWO POST (EA)	INSTALL SIGN (SSBM) (EA)	REMOVE ROADSIDE SIGN (SSBM) (EA)	REMOVE ROADSIDE SIGN (EA)	RELOCATE EXISTING ROADSIDE SIGN (EA)	TYPE 1 PEDESTRIAN BARRICADE (WITH SIGN MOUNT) (EA)	METAL (BARRIER MOUNTED SIGN) (LB)	REMARKS
S-3	S3-22		G92 (CA)	48 x 30	2			14′				1									
		M3-1 (EAST)		36 x 18																	
			G28-2 (37)(CA)	28 x 24																	
		M6-2a		30 x 21																	
	S3-23		G92 (CA)														1				
		M3-1 (EAST)																			
			G28-2 (37)(CA)																		
		M6-2a																			
	S3-24		G92 (CA)	48 x 30	2			14′				1									
		M3-1 (EAST)		36 x 18																	
			G28-2 (37)(CA)	28 x 24																	
		M6-2a (Rt)		30 x 21																	
	S3-25	R6-1 (Rt)		54 x 18	7	12′						1									
	S3-26	W4-1		36 x 36	7		14.5′					1									
	S3-27		G92 (CA)														1				
		M3-1 (EAST)																			
			G28-2 (37)(CA)																		
		M6-2a (Rt)																			
	S3-28	R5-1															1				
		R5-1a																			
	S3-29	R6-1															1				
	S3-30	R5-1															1				
		R5-1a																			
	S3-31		R61-19 (CA)	48 x 36	7		14.5′					1									
	S3-32		R61-30 (CA)														1				
	S3-33	R3-5a		30 x 36											2						INSTALL ON SIGNAL MAST
		R3-5a		30 x 36																	INSTALL ON SIGNAL MAST
	S3-34	R6-1 (Rt)		54 x 18	7															112	
	S3-35	R5-1a		42 x 30	7		14′					1									
	S3-36	R3-1															1				
	S3-37	R4-8			7							1									
	S3-38	R5-1		36 x 36	2															112	
		R5-1a		42 x 30																	
	S3-39	R6-1 (LEFT)		54 x 18	7	12′						1									
	S3-40	R3-1		36 x 36	7		14.5′					1									
	S3-41	R3-1		36 x 36	7		14.5′					1									
	S3-42	R6-1 (LEFT)		54 x 18	7	12′						1									
	S3-43	R3-1		36 x 36	7		14.5′					1									
	S3-44	R5-1a		42 x 30	7															112	
	S3-45	R6-1 (Rt)		54 x 18	7															112	
	S3-46		G24-3 (CA)													1					
	S3-47		G8-4 (CA)														1				
SHEET TOTAL SQ-4												12			2	1	8			448	

SIGN QUANTITIES

SQ-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CARL GIBSON III

CALCULATED-DESIGNED BY: RALEIGH LANGSTON — CHECKED BY: CARL GIBSON III

REVISED BY: R.L. — DATE REVISED: 02/15/22

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	782	

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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CA 95670

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SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

ROADSIDE SIGN QUANTITIES

SHEET No.	SIGN No.	SIGN DESIGNATION FEDERAL	SIGN DESIGNATION CALIFORNIA	SIGN PANEL SIZE INCHES	"C" DIM IN FEET	POST SIZE AND LENGTH 4" X 4" FT	4" X 6" FT	6" X 6" FT	6" X 8" FT	LAMINATED WOOD BOX TYPE M FT	LAMINATED WOOD BOX TYPE L FT	ROADSIDE SIGN (WOOD POST) ONE POST EA	ROADSIDE SIGN (WOOD POST) TWO POST EA	ROADSIDE SIGN (LAMINATED WOOD BOX) TWO POST EA	INSTALL SIGN (SSBM) EA	REMOVE ROADSIDE SIGN (SSBM) EA	REMOVE ROADSIDE SIGN EA	RELOCATE EXISTING ROADSIDE SIGN EA	TYPE 1 PEDESTRIAN BARRICADE (WITH SIGN MOUNT) EA	METAL (BARRIER MOUNTED SIGN) LB	REMARKS
S-3	S3-48		G85-4 Mod (CA)	84 x 48	7			17′					1								
	S3-49		G85-4 Mod (CA)	78 x 60	7			18′					1								
	S3-50		G85-4 (CA)														1				
	S3-51	R5-1															1				
		R5-1a																			
	S3-52	W12-1		36 x 36	7		14.5′					1									
	S3-53		G8-4 (CA)										1				1	1			
			G7-1 (CA)																		
		R5-2																			
	S3-54	W3-3															1				
	S3-55		R61-15 (CA)														1				
	S3-56		R61-26 (CA)	72 x 45	7			16′				1									
	S3-57	W3-3															1				
	S3-58		R61-26 (CA)	72 x 45	7			16′				1									
	S3-59		R61-15 (CA)														1				
	S3-60	W4-2		36 x 36	7		14.5′					1									
	S3-61	D11-1a		18 x 18	7		12.5′					1									
		D11-1dP		6 x 18																	
	S3-62	D11-1a		18 x 18	7		12.5′					1									
		D11-1dP		6 x 18																	
	S3-63		G24-3 Mod (CA)	120 x 66	7				18.5′				1								
	S3-64	W12-1		36 x 36	7		14.5′					1									
S-4	S4-01	W12-1		36 x 36	7		14.5′					1									
	S4-02	R10-15															1				
	S4-03		G92 (CA)	48 x 30	2			14′				1									
		M3-1 (WEST)		36 x 18																	
			G28-2 (37)(CA)	28 x 24																	
		M6-2a (R+)		30 x 21																	
	S4-04		G92 (CA)	48 x 30	2			14′				1									
		M3-1 (WEST)		36 x 18																	
			G28-2 (37)(CA)	28 x 24																	
		M6-2a		30 x 21																	
	S4-05		G92 (CA)														1				
		M3-1 (WEST)																			
			G28-2 (37)(CA)																		
		M6-2a																			
	S4-06		G92 (CA)	48 x 30	2			14′				1									
		M3-1 (WEST)		36 x 18																	
			G28-2 (37)(CA)	28 x 24																	
		M6-2a (R+)		30 x 21																	
	S4-07	R6-1 (R+)		54 x 18	7	12′						1									
	S4-08	R6-1 (LEFT)		54 x 18	7										1						
SHEET TOTAL SQ-5												12	4		1		9	1			

SIGN QUANTITIES

SQ-5

REVISED BY	DATE REVISED
R.L.	02/15/22

RALEIGH LANGSTON — CARL GIBSON III

CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR — CARL GIBSON III

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 — DATE PLOTTED => 2/8/2022 — TIME PLOTTED => 4:52:44 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	782	

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. 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.

WMH CORPORATION
11070 WHITE ROCK RD
SUITE 140
RANCHO CORDOVA
CA 95670

SOLANO TRANSPORATION AUTHORITY
1 HARBOR CENTER
SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

ROADSIDE SIGN QUANTITIES

SHEET No.	SIGN No.	SIGN DESIGNATION FEDERAL	SIGN DESIGNATION CALIFORNIA	SIGN PANEL SIZE INCHES	"C" DIM IN FEET	POST SIZE AND LENGTH 4" X 4" (FT)	4" X 6" (FT)	6" X 6" (FT)	6" X 8" (FT)	LAMINATED WOOD BOX TYPE M (FT)	LAMINATED WOOD BOX TYPE L (FT)	ROADSIDE SIGN (WOOD POST) ONE POST (EA)	ROADSIDE SIGN (WOOD POST) TWO POST (EA)	ROADSIDE SIGN (LAMINATED WOOD BOX) TWO POST (EA)	INSTALL SIGN (SSBM) (EA)	REMOVE ROADSIDE SIGN (SSBM) (EA)	REMOVE ROADSIDE SIGN (EA)	RELOCATE EXISTING ROADSIDE SIGN (EA)	TYPE 1 PEDESTRIAN BARRICADE (WITH SIGN MOUNT) (EA)	METAL (BARRIER MOUNTED SIGN) (LB)	REMARKS
S-4	S4-09		G92 (CA)	48 x 30	2			14′				1									
		M3-1 (WEST)		36 x 18																	
			G28-2 (37)(CA)	28 x 24																	
		M6-2a		30 x 21																	
	S4-10	R1-2		48 x 48 x 48	7		15.5′					1									
	S4-11	W3-2		30 x 30	7		14′					1									
	S4-12	R4-8		24 x 30	7	13′						1									
	S4-13	R3-1															1				
	S4-14	R3-5a		30 x 36											2						INSTALL ON SIGNAL MAST
		R3-5a		30 x 36																	INSTALL ON SIGNAL MAST
	S4-15	R4-7															1				
	S4-16	R5-1															1				
		R5-1a																			
	S4-17	R5-1		36 x 36	2		12′					1									
		R5-1a		42 x 30																	
	S4-18	R3-2		36 x 36	7		14.5′					1									FACING NB TRAFFIC
		R3-1		36 x 36																	FACING SB TRAFFIC
	S4-19	R5-1		36 x 36	2		12′					1									
		R5-1a		42 x 30																	
	S4-20	R3-5a		30 x 36											2						INSTALL ON SIGNAL MAST
		R3-5a		30 x 36																	INSTALL ON SIGNAL MAST
	S4-21	R4-7		24 x 30	7	13′						1									
	S4-22	R3-2		36 x 36	7		14.5′					1									
	S4-23	R6-1 (Rt)		54 x 18	7	12′						1									
	S4-24		R26 (CA)														1				
	S4-25		G85-6 (CA)	120 x 54	7				17.5′				1								
	S4-26	R2-1 (35)		30 x 36	7		14.5′					1									
	S4-27	R2-1															1				
	S4-28	R2-1 (25)		30 x 36	7		14.5′					1									
	S4-29		G24-3 Mod (CA)	120 x 66	7				18.5′					1							
	S4-30		R2-4 (25)(CA)	24 x 30	7	13′						1									
	S4-31	R5-10c		24 x 12	3														1		
	S4-32	R5-10c		24 x 12	3														1		
	S4-33		G24-3 Mod (CA)	120 x 84	7				20′					1							
	S4-34		G24-3 Mod (CA)														1				
SHEET TOTAL SQ-6												13	1	2	4		6		2		
SHEET TOTAL SQ-5												12	4		1		9	1			
SHEET TOTAL SQ-4												12			2	1	8			448	
SHEET TOTAL SQ-3												11		1	2		7		1		
SHEET TOTAL SQ-2												14		1	1	3	10	4	1		
SHEET TOTAL SQ-1												14	1			3	11	1	2		
GRAND TOTAL												76	6	4	10	7	51	6	6	448	

SIGN QUANTITIES

SQ-6

REVISED BY	DATE REVISED
R.L.	02/15/22

RALEIGH LANGSTON — CALCULATED-DESIGNED BY
CARL GIBSON III — CHECKED BY
CARL GIBSON III — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 | DATE PLOTTED => 2/8/2022 | TIME PLOTTED => 4:52:46 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	782	

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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PRELIMINARY PLANS SUBJECT TO REVISION

ROADSIDE SIGN PANEL QUANTITIES

SHEET No.	SIGN No.	SIGN DESIGNATION FEDERAL	SIGN DESIGNATION CALIFORNIA	SIGN MESSAGE/DESCRIPTION	SIGN PANEL SIZE (INCHES)	PANEL AREA (SQFT)	BACKGROUND SHEETING COLOR	BACKGROUND RETROREFLECTIVE ASTM TYPE	BORDER & LEGEND SHEETING COLOR	BORDER & LEGEND RETROREFLECTIVE ASTM TYPE	PREMIUM PROTECTIVE FILM	FURNISH SINGLE SHEET ALUMINUM SIGN UNFRAMED 0.063" (SQFT)	UNFRAMED 0.080" (SQFT)	FRAMED 0.063" (SQFT)	FRAMED 0.080" (SQFT)	RETROREFLECTIVE SHEETING (TYPE IX)	RETROREFLECTIVE SHEETING (TYPE XI)	REMARKS
S-1	S1-03		R26 (CA)	NO PARKING ANY TIME	12 x 18	1.5	WHITE/RED	IX/XI	WHITE/RED	XI/XI	X	1.5				1.5		
	S1-05		R26 (CA)	NO PARKING ANY TIME	12 x 18	1.5	WHITE/RED	IX/XI	WHITE/RED	XI/XI	X	1.5				1.5		
	S1-07	R1-1		STOP	36 x 36	9.0	RED	XI	WHITE	XI	X	6.3					9.0	
	S1-08	R4-7		KEEP RIGHT (SYMBOL)	24 x 30	5.0	WHITE	IX	BLACK	PLAIN	X	5.0				5.0		
			TYPE N-1 (CA)		18 x 18	2.3	YELLOW	XI	YELLOW	XI	XI		2.3				2.3	
	S1-10		R26 (CA)	NO PARKING ANY TIME	12 x 18	1.5	WHITE/RED	IX/XI	WHITE/RED	XI/XI	X	1.5				1.5		
			R81 (CA)	BIKE LANE	12 x 8	0.7	WHITE	IX/XI	BLACK	PLAIN	X	0.7				0.7		
	S1-11	R2-1 (35)		SPEED LIMIT (35)	30 x 36	7.5	WHITE	IX	BLACK	PLAIN	X	7.5				7.5		
	S1-13	W3-3		SIGNAL AHEAD (SYMBOL)	30 x 30	6.3	YELLOW	XI	BLACK/RED/GREEN	PLAIN/XI /XI	X		6.3				6.3	
	S1-17		R26 (CA)	NO PARKING ANY TIME	12 x 18	1.5	WHITE/RED	IX/XI	WHITE/RED	XI/XI	X	1.5				1.5		
			R26 (CA)	NO PARKING ANY TIME	12 x 18	1.5	WHITE/RED	IX/XI	WHITE/RED	XI/XI	X	1.5				1.5		
			R81 (CA)	BIKE LANE	12 x 8	0.7	WHITE	IX/XI	BLACK	PLAIN	X	0.7				0.7		
	S1-19	R3-2		NO LEFT TURN	36 x 36	9.0	WHITE	IX	BLACK/RED	PLAIN/XI	X	9.0				9.0		
	S1-21	R5-10c		NO PEDESTRIANS	24 x 12	2.0	WHITE	IX	BLACK	PLAIN	X	2.0				2.0		
	S1-22	R5-10c		NO PEDESTRIANS	24 x 12	2.0	WHITE	IX	BLACK	PLAIN	X	2.0				2.0		
	S1-23		R81 (CA)	BIKE LANE	12 x 8	0.7	WHITE	IX/XI	BLACK	PLAIN	X	0.7				0.7		
	S1-24	R6-1 (RIGHT)		ONE WAY (RIGHT)	54 x 18	6.8	BLACK	PLAIN	WHITE/BLACK	XI/PLAIN	X		6.8			6.8		
S-2	S2-01		R26 (CA)	NO PARKING ANY TIME	12 x 18	1.5	WHITE/RED	IX/XI	WHITE/RED	XI/XI	X	1.5				1.5		
	S2-04	R3-4		NO U TURN	36 x 36	9.0	WHITE	IX	BLACK/RED	PLAIN/XI	X	9.0				9.0		
		R3-4		NO U TURN	36 x 36	9.0	WHITE	IX	BLACK/RED	PLAIN/XI	X	9.0				9.0		
	S2-05	R3-4		NO U TURN	36 x 36	9.0	WHITE	IX	BLACK/RED	PLAIN/XI	X	9.0				9.0		
	S2-09		R26 (CA)	NO PARKING ANY TIME	12 x 18	1.5	WHITE/RED	IX/XI	WHITE/RED	XI/XI	X	1.5				1.5		
	S2-13		R26 (CA)	NO PARKING ANY TIME	12 x 18	1.5	WHITE/RED	IX/XI	WHITE/RED	XI/XI	X	1.5				1.5		
	S2-15		R26 (CA)	NO PARKING ANY TIME	12 x 18	1.5	WHITE/RED	IX/XI	WHITE/RED	XI/XI	X	1.5				1.5		
	S2-17	R1-1		STOP	36 x 36	9.0	RED	XI	WHITE	XI	X	6.3					9.0	
	S2-18		G24-3 Mod (CA)	TO 80 AND SACRAMENTO AND SAN FRANCISCO RIGHT LANE	120 x 84	70.0	GREEN	XI	WHITE	XI	X				70.0		70.0	
			G24-3 Mod (CA)	SR-37 WEST AND SAN RAFAEL LEFT LANE	120 x 66	55.0	GREEN	XI	WHITE	XI	X				55.0		55.0	
	S2-19		R18B (CA)	RIGHT LANE FREEWAY ONLY	36 x 36	9.0	WHITE	IX	BLACK	PLAIN	X	9.0				9.0		
	S2-21	R10-7		DO NOT BLOCK INTERSECTION	24 x 30	5.0	WHITE	IX	BLACK	PLAIN	X	5.0				5.0		
			R26 (CA)	NO PARKING ANY TIME	12 x 18	1.5	WHITE/RED	IX/XI	WHITE/RED	XI/XI	X	1.5				1.5		
	S2-24	R2-1 (30)		SPEED LIMIT (30)	30 x 36	7.5	WHITE	IX	BLACK	PLAIN	X	7.5				7.5		
			R26 (CA)	NO PARKING ANY TIME	12 x 18	1.5	WHITE/RED	IX/XI	WHITE/RED	XI/XI	X	1.5				1.5		
	S2-25	W12-2 (15' - 3")		LOW CLEARANCE (15'-3")	36 x 36	9.0	YELLOW	XI	BLACK	PLAIN	X	9.0					9.0	
			W34A (1100 FT)	1100 FT AHEAD	36 x 30	7.5	YELLOW	XI	BLACK	PLAIN	X	7.5					7.5	
	S2-27	R6-1 (RIGHT)		ONE WAY (RIGHT)	54 x 18	6.8	BLACK	PLAIN	WHITE/BLACK	XI/PLAIN	X		6.8			6.8		
SHEET TOTAL SQ-7												121.6	22.2		125.0	106.2	168.1	

SIGN QUANTITIES

SQ-7

R.L.	02/15/22	RALEIGH LANGSTON	CARL GIBSON III
REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY
CARL GIBSON III			
CONSULTANT FUNCTIONAL SUPERVISOR			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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ROADSIDE SIGN PANEL QUANTITIES

SHEET No.	SIGN No.	SIGN DESIGNATION FEDERAL	SIGN DESIGNATION CALIFORNIA	SIGN MESSAGE/DESCRIPTION	SIGN PANEL SIZE (INCHES)	PANEL AREA (SQFT)	BACKGROUND SHEETING COLOR	BACKGROUND RETROREFLECTIVE ASTM TYPE	BORDER & LEGEND SHEETING COLOR	BORDER & LEGEND RETROREFLECTIVE ASTM TYPE	PREMIUM PROTECTIVE FILM	FURNISH SINGLE SHEET ALUMINUM SIGN (SQFT) UNFRAMED 0.063"	UNFRAMED 0.080"	FRAMED 0.063"	FRAMED 0.080"	RETROREFLECTIVE SHEETING (TYPE IX)	RETROREFLECTIVE SHEETING (TYPE XI)	REMARKS
S-2	S2-30	W12-2 (15' - 2")		LOW CLEARANCE (15'-3")	36 x 36	9.0	YELLOW	XI	BLACK	PLAIN	X	9.0					9.0	
			W34A (300 FT)	300 FT AHEAD	36 x 30	7.5	YELLOW	XI	BLACK	PLAIN	X	7.5					7.5	
	S2-32	W3-3		SIGNAL AHEAD (SYMBOL)	30 x 30	6.3	YELLOW	XI	BLACK/RED/GREEN	PLAIN/XI /XI	X		6.3				6.3	
	S2-33	R5-10c		NO PEDESTRIANS	24 x 12	2.0	WHITE	IX	BLACK	PLAIN	X	2.0				2.0		
	S2-34	D11-1a		BICYCLES PERMITTED (SYMBOL)	18 x 18	2.3	GREEN	XI	WHITE	XI	X	2.3					2.3	
		D11-1dP		BIKE ROUTE	6 x 18	0.8	GREEN	XI	WHITE	XI	X	0.8					0.8	
	S2-35	D11-1a		BICYCLES PERMITTED (SYMBOL)	18x 18	2.3	GREEN	XI	WHITE	XI	X	2.3					2.3	
		D11-1dP		BIKE ROUTE	6 x 18	0.8	GREEN	XI	WHITE	XI	X	0.8					0.8	
	S2-36		R49 (Rt)(CA)	NO PED CROSSING USE CROSSWALK	42 x 18	6.0	WHITE	IX	BLACK	PLAIN	X	6.0					6.0	
S-3	S3-01	R2-1 (25)		SPEED LIMIT (25)	30 x 36	7.5	WHITE	IX	BLACK	PLAIN	X	7.5				7.5		
	S3-02		R26 (CA)	NO PARKING ANY TIME	12 x 18	1.5	WHITE/RED	IX/XI	WHITE/RED	XI/XI	X	1.5				1.5		
	S3-03		G24-3 Mod (CA)	TO 80 AND SACRAMENTO AND SAN FRANCISCO WITH ARROW	144 x 66	66.0	GREEN	XI	WHITE	XI	X				66.0		66.0	
	S3-06		G92 (CA)	FREEWAY ENTRANCE	48 x 30	10.0	GREEN	XI	WHITE	XI	X		10.0				10.0	
		M3-1 (EAST)		EAST	36 x 18	4.5	WHITE	IX	BLACK	PLAIN	X	4.5				4.5		
			G28-2 (37)(CA)	STATE ROUTE MARKER (37)	28 x 24	4.7	GREEN	XI	WHITE	XI	X	4.7					4.7	
		M6-2a (Rt)		DIAGONAL AUXILIARY ARROW (Rt)	30 x 21	4.4	WHITE	IX	BLACK	PLAIN	X	4.4				4.4		
	S3-07		G92 (CA)	FREEWAY ENTRANCE	48 x 30	10.0	GREEN	XI	WHITE	XI	X		10.0				10.0	
		M3-1 (EAST)		EAST	36 x 18	4.5	WHITE	IX	BLACK	PLAIN	X	4.5				4.5		
			G28-2 (37)(CA)	STATE ROUTE MARKER (37)	28 x 24	4.7	GREEN	XI	WHITE	XI	X	4.7					4.7	
		M6-2a		DIAGONAL AUXILIARY ARROW	30 x 21	4.4	WHITE	IX	BLACK	PLAIN	X	4.4				4.4		
	S3-08	R5-1		DO NOT ENTER	36 x 36	9.0	WHITE	IX	RED/WHITE	XI/XI	X	9.0				9.0		
		R5-1a		WRONG WAY	42 x 30	8.8	RED	XI	WHITE	XI	X	8.8					8.8	
	S3-09	W4-5		ENTERING ROADWAY MERGE (SYMBOL)	36 x 36	9.0	YELLOW	XI	BLACK	PLAIN	X		9.0				9.0	
	S3-10	R6-1 (LEFT)		ONE WAY (LEFT)	54 x 18	6.8	BLACK	PLAIN	WHITE/BLACK	XI/PLAIN	X		6.8			6.8		
	S3-13	R6-1 (Rt)		ONE WAY (RIGHT)	54 x 18	6.8	BLACK	PLAIN	WHITE/BLACK	XI/PLAIN	X		6.8			6.8		
	S3-16	R4-7		KEEP RIGHT (SYMBOL)	24 x 30	5.0	WHITE	IX	BLACK	PLAIN	X	5.0				5.0		
	S3-18	R3-5a		STRAIGHT THROUGH ONLY	30 x 36	7.5	WHITE	IX	BLACK	PLAIN	X	7.5				7.5		
		R3-5a		STRAIGHT THROUGH ONLY	30 x 36	7.5	WHITE	IX	BLACK	PLAIN	X	7.5				7.5		
	S3-19	R3-1		NO RIGHT TURN	36 x 36	9.0	WHITE	IX	BLACK/RED	PLAIN/XI	X	9.0				9.0		
		R3-2		NO LEFT TURN	36 x 36	9.0	WHITE	IX	BLACK/RED	PLAIN/XI	X	9.0				9.0		
	S3-21	W12-1		DOUBLE ARROW SIGN	36 x 36	9.0	YELLOW	XI	BLACK	PLAIN	X		9.0				9.0	
	S3-22		G92 (CA)	FREEWAY ENTRANCE	48 x 30	10.0	GREEN	XI	WHITE	XI	X		10.0				10.0	
		M3-1 (EAST)		EAST	36 x 18	4.5	WHITE	IX	BLACK	PLAIN	X	4.5				4.5		
			G28-2 (37)(CA)	STATE ROUTE MARKER (37)	28 x 24	4.7	GREEN	XI	WHITE	XI	X	4.7					4.7	
		M6-2a		DIAGONAL AUXILIARY ARROW	30 x 21	4.4	WHITE	IX	BLACK	PLAIN	X	4.4				4.4		
SHEET TOTAL SQ-8												136.3	67.9		66.0	98.3	171.9	

SIGN QUANTITIES

SQ-8

REVISED BY	DATE REVISED
R.L.	02/15/22

RALEIGH LANGSTON — CARL GIBSON III — CALCULATED-DESIGNED BY — CHECKED BY

CARL GIBSON III — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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ROADSIDE SIGN PANEL QUANTITIES

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S-3	S3-24		G92 (CA)	FREEWAY ENTRANCE	48 x 30	10.0	GREEN	XI	WHITE	XI	X		10.0				10.0	
		M3-1 (EAST)		EAST	36 x 18	4.5	WHITE	IX	BLACK	PLAIN	X	4.5				4.5		
			G28-2 (37)(CA)	STATE ROUTE MARKER (37)	28 x 24	4.7	GREEN	XI	WHITE	XI	X	4.7					4.7	
		M6-2a (Rt)		DIAGONAL AUXILIARY ARROW (Rt)	30 x 21	4.4	WHITE	IX	BLACK	PLAIN	X	4.4				4.4		
	S3-25	R6-1 (Rt)		ONE WAY (RIGHT)	54 x 18	6.8	BLACK	PLAIN	WHITE/BLACK	XI/PLAIN	X		6.8			6.8		
	S3-26	W4-1		MERGE (SYMBOL)	36 x 36	9.0	YELLOW	XI	BLACK	PLAIN	X		9.0				9.0	
	S3-31		R61-19 (CA)	INTERSECTION LANE CONTROL	48 x 36	12.0	WHITE	IX	BLACK	PLAIN	X		12.0			12.0		
	S3-33	R3-5a		STRAIGHT THROUGH ONLY	30 x 36	7.5	WHITE	IX	BLACK	PLAIN	X	7.5				7.5		
		R3-5a		STRAIGHT THROUGH ONLY	30 x 36	7.5	WHITE	IX	BLACK	PLAIN	X	7.5				7.5		
	S3-34	R6-1 (Rt)		ONE WAY (RIGHT)	54 x 18	6.8	BLACK	PLAIN	WHITE/BLACK	XI/PLAIN	X		6.8			6.8		
	S3-35	R5-1a		WRONG WAY	42 x 30	8.8	RED	XI	WHITE	XI	X	8.8					8.8	
	S3-38	R5-1		DO NOT ENTER	36 x 36	9.0	WHITE	IX	RED/WHITE	XI/XI	X	9.0				9.0		
		R5-1a		WRONG WAY	42 x 30	8.8	RED	XI	WHITE	XI	X	8.8					8.8	
	S3-39	R6-1 (LEFT)		ONE WAY (LEFT)	54 x 18	6.8	BLACK	PLAIN	WHITE/BLACK	XI/PLAIN	X		6.8			6.8		
	S3-40	R3-1		NO RIGHT TURN	36 x 36	9.0	WHITE	IX	BLACK/RED	PLAIN/XI	X	9.0				9.0		
	S3-41	R3-1		NO RIGHT TURN	36 x 36	9.0	WHITE	IX	BLACK/RED	PLAIN/XI	X	9.0				9.0		
	S3-42	R6-1 (LEFT)		ONE WAY (LEFT)	54 x 18	6.8	BLACK	PLAIN	WHITE/BLACK	XI/PLAIN	X		6.8			6.8		
	S3-43	R3-1		NO RIGHT TURN	36 x 36	9.0	WHITE	IX	BLACK/RED	PLAIN/XI	X	9.0				9.0		
	S3-44	R5-1a		WRONG WAY	42 x 30	8.8	RED	XI	WHITE	XI	X	8.8					8.8	
	S3-45	R6-1 (Rt)		ONE WAY (RIGHT)	54 x 18	6.8	BLACK	PLAIN	WHITE/BLACK	XI/PLAIN	X		6.8			6.8		
	S3-48		G85-4 Mod (CA)	37 WEST SAN RAFAEL WITH ARROW	84 x 48	28.0	GREEN	XI	WHITE	XI	X				28.0		28.0	
	S3-49		G85-4 Mod (CA)	TO 80 SACRAMENTO AND SAN FRANCISCO WITH ARROW	78 x 60	32.5	GREEN	XI	WHITE	XI	X				32.5		32.5	
	S3-52	W12-1		DOUBLE ARROW SIGN	36 x 36	9.0	YELLOW	XI	BLACK	PLAIN	X		9.0				9.0	
	S3-56		R61-26 (CA)	INTERSECTION LANE CONTROL	72 x 45	22.5	WHITE	IX	BLACK	PLAIN	X			22.5		22.5		
	S3-58		R61-26 (CA)	INTERSECTION LANE CONTROL	72 x 45	22.5	WHITE	IX	BLACK	PLAIN	X			22.5		22.5		
	S3-60	W4-2		LANE ENDS (SYMBOL)	36 x 36	9.0	YELLOW	XI	BLACK	PLAIN	X		9.0				9.0	
	S3-61	D11-1a		BICYCLES PERMITTED (SYMBOL)	18 x 18	2.3	GREEN	XI	WHITE	XI	X	2.3					2.3	
		D11-1dP		BIKE ROUTE	6 x 18	0.8	GREEN	XI	WHITE	XI	X	0.8					0.8	
	S3-62	D11-1a		BICYCLES PERMITTED (SYMBOL)	18x 18	2.3	GREEN	XI	WHITE	XI	X	2.3					2.3	
		D11-1dP		BIKE ROUTE	6 x 18	0.8	GREEN	XI	WHITE	XI	X	0.8					0.8	
	S3-63		G24-3 Mod (CA)	SR-37 WEST AND SAN RAFAEL LEFT LANE	120 x 66	55.0	GREEN	XI	WHITE	XI	X				55.0		55.0	
	S3-64	W12-1		DOUBLE ARROW SIGN	36 x 36	9.0	YELLOW	XI	BLACK	PLAIN	X		9.0				9.0	
S-4	S4-01	W12-1		DOUBLE ARROW SIGN	36 x 36	9.0	YELLOW	XI	BLACK	PLAIN	X		9.0				9.0	
SHEET TOTAL SQ-9												97.2	101.0	45.0	115.5	150.9	207.8	

SIGN QUANTITIES
SQ-9

REVISED BY	DATE REVISED
R.L.	02/15/22

RALEIGH LANGSTON — CARL GIBSON III

CALCULATED-DESIGNED BY — CHECKED BY

CARL GIBSON III — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 — DATE PLOTTED => 2/8/2022 — TIME PLOTTED => 4:52:53 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	782	

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. 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.

WMH CORPORATION
11070 WHITE ROCK RD
SUITE 140
RANCHO CORDOVA
CA 95670

SOLANO TRANSPORATION AUTHORITY
1 HARBOR CENTER
SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

ROADSIDE SIGN PANEL QUANTITIES

SHEET No.	SIGN No.	SIGN DESIGNATION FEDERAL	SIGN DESIGNATION CALIFORNIA	SIGN MESSAGE/DESCRIPTION	SIGN PANEL SIZE INCHES	PANEL AREA SQFT	BACKGROUND SHEETING COLOR	BACKGROUND RETROREFLECTIVE ASTM TYPE	BORDER & LEGEND SHEETING COLOR	BORDER & LEGEND RETROREFLECTIVE ASTM TYPE	PREMIUM PROTECTIVE FILM	FURNISH SINGLE SHEET ALUMINUM SIGN UNFRAMED 0.063" SQFT	UNFRAMED 0.080" SQFT	FRAMED 0.063" SQFT	FRAMED 0.080" SQFT	RETROREFLECTIVE SHEETING (TYPE IX)	RETROREFLECTIVE SHEETING (TYPE XI)	REMARKS
S-4	S4-03		G92 (CA)	FREEWAY ENTRANCE	48 x 30	10.0	GREEN	XI	WHITE	XI	X		10.0				10.0	
		M3-1 (WEST)		WEST	36 x 18	4.5	WHITE	IX	BLACK	PLAIN	X	4.5				4.5		
			G28-2 (37)(CA)	STATE ROUTE MARKER (37)	28 x 24	4.7	GREEN	XI	WHITE	XI	X	4.7					4.7	
		M6-2a (R+)		DIAGONAL AUXILIARY ARROW (R+)	30 x 21	4.4	WHITE	IX	BLACK	PLAIN	X	4.4				4.4		
	S4-04		G92 (CA)	FREEWAY ENTRANCE	48 x 30	10.0	GREEN	XI	WHITE	XI	X		10.0				10.0	
		M3-1 (WEST)		WEST	36 x 18	4.5	WHITE	IX	BLACK	PLAIN	X	4.5				4.5		
			G28-2 (37)(CA)	STATE ROUTE MARKER (37)	28 x 24	4.7	GREEN	XI	WHITE	XI	X	4.7					4.7	
		M6-2a		DIAGONAL AUXILIARY ARROW	30 x 21	4.4	WHITE	IX	BLACK	PLAIN	X	4.4				4.4		
	S4-06		G92 (CA)	FREEWAY ENTRANCE	48 x 30	10.0	GREEN	XI	WHITE	XI	X		10.0				10.0	
		M3-1 (WEST)		WEST	36 x 18	4.5	WHITE	IX	BLACK	PLAIN	X	4.5				4.5		
			G28-2 (37)(CA)	STATE ROUTE MARKER (37)	28 x 24	4.7	GREEN	XI	WHITE	XI	X	4.7					4.7	
		M6-2a (R+)		DIAGONAL AUXILIARY ARROW (R+)	30 x 21	4.4	WHITE	IX	BLACK	PLAIN	X	4.4				4.4		
	S4-07	R6-1 (R+)		ONE WAY (RIGHT)	54 x 18	6.8	BLACK	PLAIN	WHITE/BLACK	XI/PLAIN	X		6.8			6.8		
	S4-08	R6-1 (LEFT)		ONE WAY (LEFT)	54 x 18	6.8	BLACK	PLAIN	WHITE/BLACK	XI/PLAIN	X		6.8			6.8		
	S4-09		G92 (CA)	FREEWAY ENTRANCE	48 x 30	10.0	GREEN	XI	WHITE	XI	X		10.0				10.0	
		M3-1 (WEST)		WEST	36 x 18	4.5	WHITE	IX	BLACK	PLAIN	X	4.5				4.5		
			G28-2 (37)(CA)	STATE ROUTE MARKER (37)	28 x 24	4.7	GREEN	XI	WHITE	XI	X	4.7					4.7	
		M6-2a		DIAGONAL AUXILIARY ARROW	30 x 21	4.4	WHITE	IX	BLACK	PLAIN	X	4.4				4.4		
	S4-10	R1-2		YIELD	48 x 48 x 48	7.0	RED	XI	RED/WHITE	XI/XI	X		7.0				7.0	
	S4-11	W3-2		YIELD AHEAD (SYMBOL)	30 x 30	6.3	YELLOW	XI	BLACK/RED/WHITE	PLAIN/XI /XI	X		6.3				6.3	
	S4-12	R4-8		KEEP LEFT (SYMBOL)	24 x 30	5.0	WHITE	IX	BLACK	PLAIN	X	5.0				5.0		
	S4-13	R3-1		NO RIGHT TURN	36 x 36	9.0	WHITE	IX	BLACK/RED	PLAIN/XI	X	9.0				9.0		
	S4-14	R3-5a		STRAIGHT THROUGH ONLY	30 x 36	7.5	WHITE	IX	BLACK	PLAIN	X	7.5				7.5		
		R3-5a		STRAIGHT THROUGH ONLY	30 x 36	7.5	WHITE	IX	BLACK	PLAIN	X	7.5				7.5		
	S4-17	R5-1		DO NOT ENTER	36 x 36	9.0	WHITE	IX	RED/WHITE	XI/XI	X	9.0				9.0		
		R5-1a		WRONG WAY	42 x 30	8.8	RED	XI	WHITE	XI	X	8.8					8.8	
	S4-18	R3-2		NO LEFT TURN	36 x 36	9.0	WHITE	IX	BLACK/RED	PLAIN/XI	X	9.0				9.0		
		R3-1		NO RIGHT TURN	36 x 36	9.0	WHITE	IX	BLACK/RED	PLAIN/XI	X	9.0				9.0		
	S4-19	R5-1		DO NOT ENTER	36 x 36	9.0	WHITE	IX	RED/WHITE	XI/XI	X	9.0				9.0		
		R5-1a		WRONG WAY	42 x 30	8.8	RED	XI	WHITE	XI	X	8.8					8.8	
	S4-20	R3-5a		STRAIGHT THROUGH ONLY	30 x 36	7.5	WHITE	IX	BLACK	PLAIN	X	7.5				7.5		
		R3-5a		STRAIGHT THROUGH ONLY	30 x 36	7.5	WHITE	IX	BLACK	PLAIN	X	7.5				7.5		
	S4-21	R4-7		KEEP RIGHT (SYMBOL)	24 x 30	5.0	WHITE	IX	BLACK	PLAIN	X	5.0				5.0		
	S4-22	R3-2		NO LEFT TURN	36 x 36	9.0	WHITE	IX	BLACK/RED	PLAIN/XI	X	9.0				9.0		
	S4-23	R6-1 (R+)		ONE WAY (RIGHT)	54 x 18	6.8	BLACK	PLAIN	WHITE/BLACK	XI/PLAIN	X		6.8			6.8		
SHEET TOTAL SQ-10												166.0	73.7			150.0	89.7	

SIGN QUANTITIES

SQ-10

REVISED BY	DATE REVISED
R.L.	02/15/22

RALEIGH LANGSTON — CALCULATED-DESIGNED BY
CARL GIBSON III — CHECKED BY
CARL GIBSON III — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	782	

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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WMH CORPORATION
11070 WHITE ROCK RD
SUITE 140
RANCHO CORDOVA
CA 95670

SOLANO TRANSPORATION AUTHORITY
1 HARBOR CENTER
SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

ROADSIDE SIGN PANEL QUANTITIES

SHEET No.	SIGN No.	SIGN DESIGNATION FEDERAL	SIGN DESIGNATION CALIFORNIA	SIGN MESSAGE/DESCRIPTION	SIGN PANEL SIZE INCHES	PANEL AREA SQFT	BACKGROUND SHEETING COLOR	BACKGROUND RETROREFLECTIVE ASTM TYPE	BORDER & LEGEND SHEETING COLOR	BORDER & LEGEND RETROREFLECTIVE ASTM TYPE	PREMIUM PROTECTIVE FILM	FURNISH SINGLE SHEET ALUMINUM SIGN UNFRAMED 0.063" SQFT	UNFRAMED 0.080" SQFT	FRAMED 0.063" SQFT	FRAMED 0.080" SQFT	RETROREFLECTIVE SHEETING (TYPE IX)	RETROREFLECTIVE SHEETING (TYPE XI)	REMARKS
S-4	S4-25		G85-6 Mod (CA)	37 WEST SAN RAFAEL WITH ARROW	120 x 54	45.0	GREEN	XI	WHITE	XI	X				45.0		45.0	
	S4-26	R2-1 (35)		SPEED LIMIT (35)	30 x 36	7.5	WHITE	IX	BLACK	PLAIN	X	7.5				7.5		
	S4-28	R2-1 (25)		SPEED LIMIT (25)	30 x 36	7.5	WHITE	IX	BLACK	PLAIN	X	7.5				7.5		
	S4-29		G24-3 Mod (CA)	37 WEST SAN RAFAEL RIGHT LANE	120 x 66	55.0	GREEN	XI	WHITE	XI	X				55.0		55.0	
	S4-30		R2-4 (25)(CA)	SPEED ZONE AHEAD (25)	24 x 30	5.0	WHITE	IX	BLACK	PLAIN	X	5.0				5.0		
	S4-31	R5-10c		NO PEDESTRIANS	24 x 12	2.0	WHITE	IX	BLACK	PLAIN	X	2.0				2.0		
	S4-32	R5-10c		NO PEDESTRIANS	24 x 12	2.0	WHITE	IX	BLACK	PLAIN	X	2.0				2.0		
	S4-33		G24-3 Mod (CA)	TO 80 SACRAMENTO AND SAN FRANCISCO LEFT LANE	120 x 84	70.0	GREEN	XI	WHITE	XI	X				70.0		70.0	
SHEET TOTAL SQ-11												24.0			170.0	24.0	170.0	
SHEET TOTAL SQ-10												166.0	73.7			150.0	89.7	
SHEET TOTAL SQ-9												97.2	101.0	45.0	115.5	150.9	207.8	
SHEET TOTAL SQ-8												136.3	67.9		66.0	98.3	171.9	
SHEET TOTAL SQ-7												121.6	22.2		125.0	106.2	168.1	
GRAND TOTAL												545.1	264.8	45.0	476.5	529.4	807.5	

SIGN QUANTITIES

SQ-11

R.L.	02/15/22	RALEIGH LANGSTON	CARL GIBSON III
REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY
CARL GIBSON III			
CONSULTANT FUNCTIONAL SUPERVISOR			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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BORDER LAST REVISED 7/2/2010 | USERNAME => jvaldivia | DGN FILE => 044A4414od011.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0738 | PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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WMH CORPORATION
11070 WHITE ROCK RD
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RANCHO CORDOVA
CA 95670

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER
SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

HOT MIX ASPHALT DIKE

SHEET No.	FROM		TO		PLACE HMA DIKE (TYPE A)		PLACE HMA DIKE (TYPE C)		PLACE HMA DIKE (TYPE E)		RHMA-G
	LINE	STATION	LINE	STATION	LF	TON*	LF	TON*	LF	TON*	TON*
L-1	"F"	20+25.68	"F"	22+57.37	297.0	8.4					3.3
L-1	"F"	23+13.64	"F"	26+26.40	375.5	10.6					4.2
L-2	"F"	29+61.50	"F"	29+34.81	61.3	1.7					0.7
L-3	"FN"	61+17.97	"FA3"	181+25.20			421.5	3.4			4.2
L-3	"FA3"	181+25.20	"FA3"	183+70.23					243.2	6.6	4.9
L-3	"FA1"	171+81.67	"F5"	373+13.05					131.9	3.6	2.6
L-3	"FA4"	276+17.75	"FA4"	217+19.29			101.2	0.8			1.0
L-3	"FA2"	473+08.62	"FA2"	474+08.62			100.1	0.8			1.0
L-3	"F8"	481+20.19	"F8"	480+74.53					39.9	1.1	0.8
L-3	"F8"	277+41.49	"F8"	482+76.47					130.3	3.5	2.6
TOTAL					733.8	20.7	622.8	5.0	545.3	14.8	25.4

* FOR TOTAL QUANTITY, SEE "ROADWAY ITEMS" QUANTITY TABLE"

MIDWEST GUARDRAIL SYSTEM

SHEET No.	FROM		TO		MIDWEST GUARDRAIL SYSTEM (TYPE 11A)	ANCHOR ASSEMBLY (TYPE SFT)	TRANSITION RAILING (TYPE WB-31)	ALTERNATIVE IN-LINE TERMINAL SYSTEM
	LINE	STATION	LINE	STATION	LF	EA	EA	EA
C-3	"FN"	61+60.96	"FA3"	181+00.00	338.0	1.0		1.0
C-4	"FA4"	276+17.81	"FA4"	276+92.81			1.0	1.0
C-4	"FA2"	274+77.92	"FA2"	275+52.92			1.0	1.0
TOTAL					338.0	1.0	2.0	3.0

CHAIN LINK FENCE

SHEET No.	FROM		TO		CHAIN LINK FENCE (TYPE CL-4 VINYL-CLOD)	CHAIN LINK FENCE (TYPE CL-6)	RELOCATE FENCE	RECONSTRUCT FENCE	REMOVE FENCE	COMMENTS
	LINE	STATION	LINE	STATION	LF	LF	LF	LF	LF	
C-3	"FN"	60+20.00	"FN"	61+18.93	113.3					FENCE ON RETAINING CURB
C-4	"FN"	64+24.63	"FN"	67+31.76	306.9					FENCE ON CONCRETE BARRIER TYPE 60MD MOD
C-4	"FN"	63+82.31	"FS"	84+13.93	325.4					FENCE ON CONCRETE BARRIER TYPE 60MD MOD
L-1	"F"	23+00.00	"F"	32+00.00		1,118.2			1,011.8	EXISTING FENCE ALONG FAIRGROUNDS
L-1	"F"	37+75.12	"F"	38+26.21			62.0			TYPE BW, METAL POST
L-2	"F"	38+80.00	"F"	42+10.00			448.0			TYPE BW, METAL POST
L-2	"F"	33+67.81	"F"	33+80.77					44.1	EXISTING FENCE ALONG FAIRGROUNDS
L-2	"F"	36+97.10	"F"	37+18.62				35.3		TYPE BW, METAL POST
R-1	"RW1"	563+30.00	"RW1"	564+74.10	144.1					FENCE ON RETAINING WALL
TOTAL					889.6	1,118.2	510.0	35.3	1,055.9	

CONCRETE BARRIER

SHEET No.	FROM		TO		TYPE				CONCRETE BARRIER DELINEATOR (CLASS 1, TYPE I)
					60MC	60M	60MD (Mod)	60MS (Mod)	
	LINE	STATION	LINE	STATION	LF	LF	LF	LF	EA
C-4	"FA2"	275+52.92	"FA2"	276+55.00		85.0			6.0
C-4	"FA2"	276+55.00	"FA1"	173+15.00	272.0				15.0
C-4	"FA3"	177+95.00	"FA4"	275+40.00	304.0				17.0
C-4	"FA4"	275+40.00	"FA4"	276+17.81		69.0			5.0
C-4	"FN"	64+24.63	"FN"	67+31.76				307.0	17.0
C-4	"FN"	63+82.31	"FS"	84+13.93				326.0	18.0
C-4	"F8"	482+87.21	"F8"	481+20.19			154.1		
TOTAL					576.0	154.0	154.1	633.0	78.0

RETAINING WALL

SHEET No.	FROM		TO		STRUCTURE EXCAVATION	STRUCTURE BACKFILL	STRUCTURE CONCRETE	ARCHITECTURAL TREATMENT	ANTI-GRAFFITI COATING	BAR REINFORCING STEEL
	LINE	STATION	LINE	STATION	CY	CY	CY	SQFT	SQFT	LBS
R-1	"RW1"	563+20.00	"RW1"	564+74.10	896.6					
R-1	"RW1"	563+20.00	"RW1"	564+74.10		665.9				
R-1	"RW1"	563+20.00	"RW1"	564+74.10			257.8			
R-1	"RW1"	563+20.00	"RW1"	564+74.10						25,458.0
R-1	"RW1"	563+20.00	"RW1"	564+74.10				431.0	431.0	
TOTAL					896.6	665.9	257.8	431.0	431.0	25,458.0

SUMMARY OF QUANTITIES

Q-1

J.V.	02/15/22
REVISED BY	DATE REVISED
JAMEY VALDIVIA	CARL GIBSON III
CALCULATED-DESIGNED BY	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	CARL GIBSON III

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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CA 95670

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER
SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

MINOR CONCRETE

SHEET No.	FROM		TO		CLASS 2 AGGREGATE BASE	VEGETATION CONTROL (MINOR CONCRETE)	CONCRETE SURFACE TEXTURE	MINOR CONCRETE (TEXTURED PAVING)	MINOR CONCRETE (CURB, SIDEWALK & CURB RAMP)	JOINTED PLAIN CONCRETE PAVEMENT	ROCK SURFACING	CONCRETE CORBEL (N)	REMOVE CONCRETE (CURB,GUTTER AND SIDEWALK)	COMMENTS
	LINE	STATION	LINE	STATION	CY	SQYD	SQFT	CY	CY	CY	CY	EA	LF	
C-1	"F"	22+95.00	"F"	26+26.40	9.0		807.6	9.0						STAMPED CONCRETE IN MEDIAN ISLAND
C-2	"F"	28+76.00	"F"	29+63.00	20.1		1804.8	20.1						STAMPED CONCRETE IN MEDIAN ISLAND
C-2	"F"	30+56.00	"F"	35+04.15	12.0		1111.0	12.0						STAMPED CONCRETE IN MEDIAN ISLAND
C-2	"F"	35+30.45	"F"	38+29.21	8.0		719.5	8.0						STAMPED CONCRETE IN MEDIAN ISLAND
C-3	"F"	39+17.08	"F"	41+64.39	6.2		553.8	6.2						STAMPED CONCRETE IN MEDIAN ISLAND
C-3	"F"	60+12.09	"F"	62+74.00	5.5		496.8	5.5						STAMPED CONCRETE IN MEDIAN ISLAND
C-4	"F7"	370+00.00	"F7"	371+00.00	21.7		1948.5	21.7						STAMPED CONCRETE IN MEDIAN ISLAND
C-4	"F6"	475+00.00	"F6"	476+00.00	14.5		1307.6	14.5						STAMPED CONCRETE IN MEDIAN ISLAND
C-4	"F5"	373+10.00	"F5"	373+20.00	40.3		3623.5	40.3						STAMPED CONCRETE IN MEDIAN ISLAND
C-4	"FS"	82+20.00	"FS"	83+00.00	42.2		3825.4	42.2						STAMPED CONCRETE IN MEDIAN ISLAND
C-4	"FN"	64+00.00	"FN"	67+50.00	51.0		8569.7	51.0						STAMPED CONCRETE IN MEDIAN ISLAND
C-5	"FS"	83+50.00	"FS"	86+50.00	12.7		1144.4	12.7						STAMPED CONCRETE
C-3	"FN"	61+60.96	"FA3"	181+00.00		179.0								GUARDRAIL SYSTEM
C-4	"FA4"	276+17.51	"FA4"	276+92.81		42.2								GUARDRAIL SYSTEM
C-4	"FA2"	274+77.92	"FA2"	275+52.92		42.3								GUARDRAIL SYSTEM
C-4	"FA2"	275+52.92	"FA2"	276+55.00			375.3							CONCRETE BARRIER 60M
C-4	"FA2"	276+55.00	"FA1"	173+15.00			1200.9				9.7			CONCRETE BARRIER 60MC
C-4	"FA3"	177+95.00	"FA4"	275+40.00			1342.2				20.2			CONCRETE BARRIER 60MC
C-4	"FA4"	275+40.00	"FA4"	276+17.81			304.6							CONCRETE BARRIER 60M
C-4	"FN"	64+24.63	"FN"	67+31.76			1252.0					2.0		CONCRETE BARRIER 60MS (Mod)
C-4	"FN"	63+82.31	"FS"	84+13.93			1329.4					2.0		CONCRETE BARRIER 60MS (Mod)
L-2	"F"	60+12.09	"F"	62+60.00					13.4				680.0	CURB TYPE A1-6
L-3	"FN"	62+00.00	"FN"	63+20.00					7.0					CURB TYPE A1-6
L-3	"F6"	475+00.00	"F6"	476+00.00					6.4					CURB TYPE A1-6
L-3	"FN"	67+00.00	"FN"	68+00.00					10.4					CURB TYPE A1-6
L-3	"FN"	81+00.00	"FS"	83+00.00					10.0					CURB TYPE A1-6
L-3	"FN"	69+00.00	"FN"	73+00.00					24.0				694.0	CURB TYPE A1-6
C-4	"FN"	63+94.00	"FS"	78+91.80					0.3					CURB TYPE A3-6
C-4	"FN"	64+11.55	"FN"	67+28.73					3.2					CURB TYPE A3-6
C-4	"FN"	67+47.16	"FS"	82+28.83					0.2					CURB TYPE A3-6
C-5	"FS"	78+91.80	"FS"	82+11.46					2.4					CURB TYPE A3-6
L-3	"FS"	81+32.69	"FS"	82+19.36					5.4					CURB TYPE A2-6
L-3	"F5"	373+12.00	"F5"	373+82.00					3.4					CURB TYPE A2-6
L-3	"FN"	68+33.00	"FN"	73+32.00					30.4					CURB TYPE A2-6
L-1	"F"	20+25.68	"F"	22+50.49	29.3				29.3					HDAS
L-1	"F"	23+24.21	"F"	26+26.40	38.7				38.7					HDAS
SUBTOTAL Q-2					311.0	263.5	31,717.0	243.1	184.6	0.0	29.9	4.0	1,374.0	

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

SUMMARY OF QUANTITIES

Q-2

REVISED BY	DATE REVISED
J.V.	02/15/22

CALCULATED-DESIGNED BY
CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: CARL GIBSON III
JAMEY VALDIVIA
CARL GIBSON III

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 00-00-00 | DATE PLOTTED => 9/2/2022 | TIME PLOTTED => 1:32:34 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. 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.

WMH CORPORATION
11070 WHITE ROCK RD
SUITE 140
RANCHO CORDOVA
CA 95670

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER
SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

MINOR CONCRETE

SHEET No.	FROM		TO		CLASS 2 AGGREGATE BASE	VEGETATION CONTROL (MINOR CONCRETE)	CONCRETE SURFACE TEXTURE	MINOR CONCRETE (TEXTURED PAVING)	MINOR CONCRETE (CURB, SIDEWALK & CURB RAMP)	JOINTED PLAIN CONCRETE PAVEMENT	ROCK SURFACING	CONCRETE CORBEL (N)	REMOVE CONCRETE (CURB,GUTTER AND SIDEWALK)	COMMENTS
	LINE	STATION	LINE	STATION	CY	SQYD	SQFT	CY	CY	CY	CY	EA	LF	
L-2	"F"	29+61.50	"F"	29+34.81	5.8				5.8					HDAS
L-2	"F"	31+00.00	"F"	31+20.00	2.4				2.4					BUS SHELTER PAD AT NE CORNER OF NORTH SIX FLAGS EXIT I/S
L-2	"F"	60+39.65	"FN"	60+70.21	2.4				2.4					BUS SHELTER PAD AT NE CORNER OF SAGE I/S
L-2	"F"	31+00.00	"F"	31+20.00	92.6					64.1				BUS PARKING BAY AT NE CORNER OF NORTH SIX FLAGS EXIT I/S
L-2	"F"	60+39.65	"FN"	60+70.21	57.1					39.5				BUS PARKING BAY AT NE CORNER OF SAGE I/S
L-3	"F6"	475+00.00	"F6"	476+00.00	9.3				9.3					WALKWAY ON ISLAND
L-3	"FN"	64+00.00	"FN"	67+50.00	49.1				49.1					WALKWAY ON ISLAND
L-3	"F5"	373+10.00	"F5"	373+20.00	6.0				6.0					WALKWAY ON ISLAND
L-3	"FS"	82+20.00	"FS"	83+00.00	6.1				6.1					WALKWAY ON ISLAND
L-2	"F"	42+54.64	"FN"	61+17.97	20.8				22.9					VCGS
L-3	"F5"	373+12.00	"F5"	373+82.00	5.2				3.9					SIDEWALK ALONG CURB TYPE A2-6
L-3	"FS"	82+74.53	"FS"	83+32.00	53.8				41.4					SIDEWALK ALONG CURB TYPE A2-6
L-2	"F"	26+26.40	"F"	29+61.50	58.2				63.8					VCGS
L-2	"F"	30+30.14	"F"	42+05.89	204.6				224.5					VCGS
L-1	"F"	22+94.88	"F"	29+62.86					42.2				387.0	VTAC
L-2	"F"	30+56.57	"F"	35+04.15					27.7				929.0	VTAC
L-2	"F"	35+30.45	"F"	38+29.21					18.6				603.0	VTAC
L-2	"F"	39+17.08	"F"	41+64.39					15.3				546.0	VTAC
L-2	"F"	29+24.48	"F"	29+44.47	3.2				3.5					CURB RAMP #4
L-2	"F"	41+42.22	"F"	41+64.32	4.6				5.1					CURB RAMP #12
L-2	"F"	42+57.53	"FS"	75+09.98	3.7				4.0					CURB RAMP #13
L-3	"FS"	86+63.56	"FS"	86+87.56	2.3				2.6					CURB RAMP #16
L-3	"FN"	60+20.00	"FN"	61+18.83					33.1					RETAINING CURB TYPE A BEHIND SIDEWALK
L-1	"F"	23+00.00	"F"	29+00.00					3.0					CITY CURB TYPE A IN PARKING LOT
L-1	"F"	23+00.00	"F"	29+00.00	84.1									PARKING LOT
SUBTOTAL Q-3					671.5	0.0	0.0	0.0	592.7	103.6	0.0	0.0	2,465.0	
SUBTOTAL Q-2					311.0	263.5	31,717.0	243.1	184.6	0.0	29.9	4.0	1,374.0	
GRAND TOTAL					982.5	263.5	31,717.0	243.1	777.3	103.6	29.9	4.0	3,839.0	

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

SUMMARY OF QUANTITIES

Q-3

REVISED BY	DATE REVISED
J.V.	02/15/22

CALCULATED-DESIGNED BY: JAMEY VALDIVIA
CHECKED BY: CARL GIBSON III
CONSULTANT FUNCTIONAL SUPERVISOR: CARL GIBSON III

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

X:\SR 37_FAIRGROUNDS DRIVE\000_CAD\Sheets\028-SumQuant\PA-Plans\044A4414pa003.dgn

LAST REVISION 00-00-00 | DATE PLOTTED => 9/2/2022 | TIME PLOTTED => 1:32:36 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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WMH CORPORATION
11070 WHITE ROCK RD
SUITE 140
RANCHO CORDOVA
CA 95670

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER
SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

PAVEMENT STRUCTURE QUANTITIES

SHEET No.	FROM LINE	FROM STATION	TO LINE	TO STATION	ROADWAY EXCAVATION CY	EMBANKMENT (N) CY	TACK COAT TON	CLASS 2 AGGREGATE BASE CY	CLASS 2 AGGREGATE SUBBASE CY	HOT MIX ASPHALT (TYPE A) TON	RUBBERIZED HOT MIX ASPHALT (GAP GRADED) TON	RUBBERIZED HOT MIX ASPHALT (OPEN GRADED) TON	COLD PLANE ASPHALT CONCRETE PAVEMENT SQYD	ASPHALT TREATMENT PERMEABLE BASE CY	CI 3 PERMEABLE BLANKET CY	LEAN CONCRETE BASE CY	SEG, CL B1 SQYD	REMOVE BASE AND SURFACING CY	COMMENTS
L-1	"F"	20+00.00	"F"	42+67.00	8,454.0	3,775.6													MEDIAN ISLAND, EXISTING UNDERDRAIN & OUTSIDE WIDENING ALONG FAIRGROUNDS & SOUTH OF SAGE
L-2	"FN"	60+00.00	"FA3"	183+70.23	3,256.1	39.9													MEDIAN ISLAND, EXISTING UNDERDRAIN & OUTSIDE WIDENING ALONG "FN", "F7" & "FA3" LINES
L-3	"FA3"	178+40.00	"FA4"	276+50.00	959.2	56.6													EXISTING UNDERDRAIN & OUTSIDE WIDENING ALONG "FA3", "FS" & "FA4" LINES
L-3	"FA4"	277+41.49	"FN"	73+32.00	16,722.9														OUTSIDE WIDENING ALONG "FA4", "F8", & "FN" LINES
L-3	"FN"	67+12.00	"FN"	73+32.00	4,328.2	75.9													EXISTING UNDERDRAIN & MEDIAN ISLAND
L-3	"FA2"	275+50.00	"FA1"	172+50.00	2,036.7	83.5													EXISTING UNDERDRAIN & OUTSIDE WIDENING ALONG "FA2", "FN" & "FA1" LINES
L-3	"FA1"	171+50.00	"F5"	374+00.00	376.2														OUTSIDE WIDENING ALONG "FA1" & "F5" LINES
L-3	"FN"	62+00.00	"FN"	69+00.00	1,155.7														ALL FOUR QUADRANT MEDAN ISLANDS
L-1	"F"	20+00.00	"FN"	73+32.00								2,767.0							RHMA-O OVERLAY ALONG ENTIRE PROJECT
L-1	"F"	20+00.00	"FN"	73+32.00						729.3	3,434.7								RHMA-G OVERLAY FOR STRUCTURE SECTIONS #1,2, 7A & 7B. HMA-A FOR STRUCTURE SECTION #7A & 7B
L-1	"F"	24+84.00	"FN"	73+32.00												41.3			AREAS WITH STRUCTURE SECTION #3
L-3	"F"	20+25.00	"F"	29+64.00				753.2	811.2	606.2	469.3								AREA WITH STRUCTURE SECTION #6
L-1	"F"	20+25.00	"F"	29+64.00						14.5	11.2								AREA WITH STRUCTURE SECTION #3
L-2	"F"	30+37.00	"F"	37+70.00				582.3	627.1	468.7	362.8								AREA WITH STRUCTURE SECTION #6
L-2	"F"	30+37.00	"F"	37+70.00						17.8	13.8								AREA WITH STRUCTURE SECTION #3
L-2	"F"	37+70.00	"F"	39+00.00						165.8	40.1								AREA WITH STRUCTURE SECTION #8
L-2	"F"	39+00.00	"F"	39+50.00				22.8		18.3	14.2				31.5				AREA WITH STRUCTURE SECTION 9B
L-2	"F"	39+50.00	"F"	42+13.00						7.4	5.7								AREA WITH STRUCTURE SECTION #3
L-2	"F"	39+50.00	"F"	42+13.00				208.4		167.8	129.9				288.6				AREA WITH STRUCTURE SECTION #9A
L-2	"FN"	60+00.00	"FN"	62+23.00				213.4		171.8	133.0				295.5				AREA WITH STRUCTURE SECTION #9A
L-2	"FN"	60+00.00	"FN"	62+23.00						99.9	24.2								AREA WITH STRUCTURE SECTION #8
L-2	"FN"	60+00.00	"FN"	62+23.00						6.7	5.2								AREA WITH STRUCTURE SECTION #3
L-3	"F7"	370+27.00	"F8"	370+92.00				30.2		24.3	18.8				41.9				AREA WITH STRUCTURE SECTION 9B
L-3	"F7"	370+92.00	"F"	372+81.00				49.5	152.2	47.8	30.8			19.0					AREA WITH STRUCTURE SECTION #11
L-3	"FA3"	180+10.00	"FA3"	183+70.00				197.3	292.6	76.5	59.3			36.6					AREA WITH STRUCTURE SECTION #13
L-3	"FN"	62+24.00	"FN"	63+32.00						5.5	4.3								AREA WITH STRUCTURE SECTION #3
L-3	"FN"	63+15.00	"FN"	64+00.00						4.1	3.2								AREA WITH STRUCTURE SECTION #3
L-3	"FA3"	177+00.00	"FA3"	178+32.00				75.3	111.6	35.0	22.6			14.0					AREA WITH STRUCTURE SECTION #11
L-3	"FS"	78+80.00	"FS"	80+45.00				32.1		25.9	20.0				44.5				AREA WITH STRUCTURE SECTION #9A
L-3	"FA2"	275+63.00	"FA2"	276+90.95				122.0	180.7	47.3	36.6			22.6					AREA WITH STRUCTURE SECTION #13
L-3	"FN"	64+38.00	"FN"	66+38.00				33.5		27.0	20.9				46.4				AREA WITH STRUCTURE SECTION #9A
L-3	"FA4"	275+00.00	"FA4"	276+18.00				101.4		48.2	37.3			23.1	184.4				AREA WITH STRUCTURE SECTION #10
L-3	"FA1"	172+72.00	"FA1"	173+72.70				37.4		17.8	13.8			8.5	68.1				AREA WITH STRUCTURE SECTION #10
L-3	"F5"	372+00.00	"F5"	373+82.00				91.6		43.6	33.7			20.8	166.5				AREA WITH STRUCTURE SECTION #10
L-3	"FS"	81+80.00	"FS"	85+00.00					701.2	623.6	142.0								AREA WITH STRUCTURE SECTION #12
SUBTOTAL SQ-4					37,288.9	4,031.4	0.0	2,550.5	2,876.6	3,500.6	5,087.3	2,767.0	0.0	144.6	1,167.3	41.3	0.0	0.0	

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

SUMMARY OF QUANTITIES

Q-4

REVISED BY	DATE REVISED
J.V.	02/15/22

JAMEY VALDIVIA — CARL GIBSON III

CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR — CARL GIBSON III

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 — DATE PLOTTED => 9/2/2022 — TIME PLOTTED => 1:32:38 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. 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.

WMH CORPORATION
11070 WHITE ROCK RD
SUITE 140
RANCHO CORDOVA
CA 95670

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER
SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

PAVEMENT STRUCTURE QUANTITIES

SHEET No.	FROM LINE	FROM STATION	TO LINE	TO STATION	ROADWAY EXCAVATION CY	EMBANKMENT (N) CY	TACK COAT TON	CLASS 2 AGGREGATE BASE CY	CLASS 2 AGGREGATE SUBBASE CY	HOT MIX ASPHALT (TYPE A) TON	RUBBERIZED HOT MIX ASPHALT (GAP GRADED) TON	RUBBERIZED HOT MIX ASPHALT (OPEN GRADED) TON	COLD PLANE ASPHALT CONCRETE PAVEMENT SQYD	ASPHALT TREATMENT PERMEABLE BASE CY	CI 3 PERMEABLE BLANKET CY	LEAN CONCRETE BASE CY	SEG, CL B1 SQYD	REMOVE BASE AND SURFACING CY	COMMENTS
L-3	"F8"	483+90.00	"F8"	73+32.00					2,019.2	1,795.7	408.9				2,019.2				AREA WITH STRUCTURE SECTION #4
L-3	"F8"	480+77.00	"F8"	482+77.00						64.4	14.7								AREA WITH STRUCTURE SECTION #5
L-3	"FS"	81+29.00	"FS"	81+74.00						3.0	2.3								AREA WITH STRUCTURE SECTION #3
L-3	"FN"	67+01.00	"FN"	68+69.00						4.9	3.8								AREA WITH STRUCTURE SECTION #3
L-3	"FS"	85+00.00	"FS"	88+17.00						22.6	17.5								AREA WITH STRUCTURE SECTION #3
C-1	"F"	23+00.00	"F"	29+63.00														1,871.0	MEDIAN ISLAND ALONG FAIRGROUNDS
C-2	"F"	30+57.00	"F"	31+00.00														155.0	MEDIAN ISLAND ALONG FAIRGROUNDS
C-3	"F"	39+17.00	"F"	40+00.00														44.0	MEDIAN ISLAND ALONG FAIRGROUNDS
C-3	"FN"	60+00.00	"FN"	63+00.00														419.4	MEDIAN ISLAND ALONG FAIRGROUNDS
C-3	"FN"	68+50.00	"FN"	71+00.00														617.7	MEDIAN ISLAND NORTH OF WB ON/OFF-RAMP
C-4	"F6"	475+00.00	"F6"	476+00.00														207.1	MEDIAN ISLAND
C-4	"F7"	370+00.00	"F7"	371+00.00														182.0	MEDIAN ISLAND
C-4	"FA4"	275+00.00	"FA4"	276+00.00														160.0	MEDIAN ISLAND
C-5	"F5"	371+50.00	"F5"	374+00.00														346.6	MEDIAN ISLAND
C-1	"F"	20+00.00	"FN"	73+32.00									5,585.1						COLD PLANE ALONG ENTIRE PROJECT
L-1	"F"	20+00.00	"FN"	73+32.00													16,833.7		SEG. CL B1 ALONG ENTIRE PROJECT
L-1	"F"	20+00.00	"FN"	73+32.00			4.4												AREAS WITH STRUCTURE SECTION #6
L-1	"F"	20+00.00	"FN"	73+32.00			11.3												AREAS WITH STRUCTURE SECTION #1 & 2
L-1	"F"	20+00.00	"FN"	73+32.00			7.3												AREAS WITH STRUCTURE SECTION #7A & 7B
L-1	"F"	20+00.00	"FN"	73+32.00			0.4												AREAS WITH STRUCTURE SECTION #3
L-1	"F"	20+00.00	"FN"	73+32.00			0.6												AREAS WITH STRUCTURE SECTION #8
L-1	"F"	20+00.00	"FN"	73+32.00			0.2												AREAS WITH STRUCTURE SECTION #9B
L-1	"F"	20+00.00	"FN"	73+32.00			1.6												AREAS WITH STRUCTURE SECTION #9A
L-1	"F"	20+00.00	"FN"	73+32.00			4.0												AREAS WITH STRUCTURE SECTION #4
L-1	"F"	20+00.00	"FN"	73+32.00			0.1												AREAS WITH STRUCTURE SECTION #5
L-1	"F"	20+00.00	"FN"	73+32.00			0.7												AREAS WITH STRUCTURE SECTION #10
L-1	"F"	20+00.00	"FN"	73+32.00			0.4												AREAS WITH STRUCTURE SECTION #11
L-1	"F"	20+00.00	"FN"	73+32.00			1.4												AREAS WITH STRUCTURE SECTION #12
L-1	"F"	20+00.00	"FN"	73+32.00			0.8												AREAS WITH STRUCTURE SECTION #13
L-1	"F"	23+00.00	"F"	29+00.00	144.7														PARKING LOT ROADWAY EXCAVATION
SUBTOTAL SQ-5					144.7	0.0	33.2	0.0	2,019.2	1,890.5	447.1	0.0	5,585.1	0.0	2,019.2	0.0	16,833.7	4,002.8	
SUBTOTAL SQ-4					37,288.9	4,031.4	0.0	2,550.5	2,876.6	3,500.6	5,087.3	2,767.0	0.0	144.6	1,167.3	41.3	0.0	0.0	
FROM HMA DIKES (SEE Q-1)										40.5	25.4								FROM HMA DIKES QUANTITY TABLE.
FROM STAGING (SEE SCQ-1)										386.0									FROM STAGING CONSTRUCTION QUANTITIES
GRAND TOTAL					37,433.6	4,031.4	33.2	2,550.5	4,895.8	5,817.6	5,559.8	2,767.0	5,585.1	144.6	3,186.5	41.3	16,833.7	4,002.8	

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

SUMMARY OF QUANTITIES

Q-5

REVISED BY	DATE REVISED
J.V.	02/15/22

JAMEY VALDIVIA — CARL GIBSON III

CALCULATED-DESIGNED BY — CHECKED BY

CARL GIBSON III — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 00-00-00 — DATE PLOTTED => 9/2/2022 — TIME PLOTTED => 1:32:41 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

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SUISUN CITY, CA 94585

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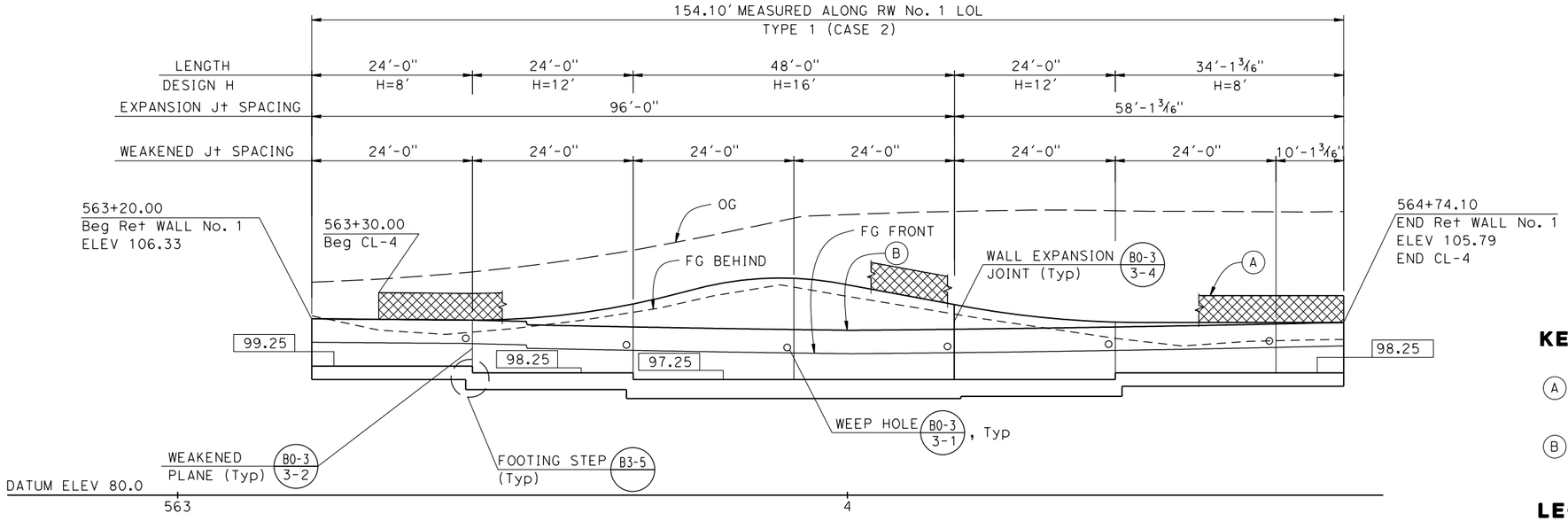


DEVELOPED ELEVATION (MIRRORED)

KEYNOTE:

(A) CHAIN LINK FENCE (TYPE CL-4, VINYL-CLAD) A85 RSP

(B) CONCRETE BARRIER TYPE 60MD (Mod)

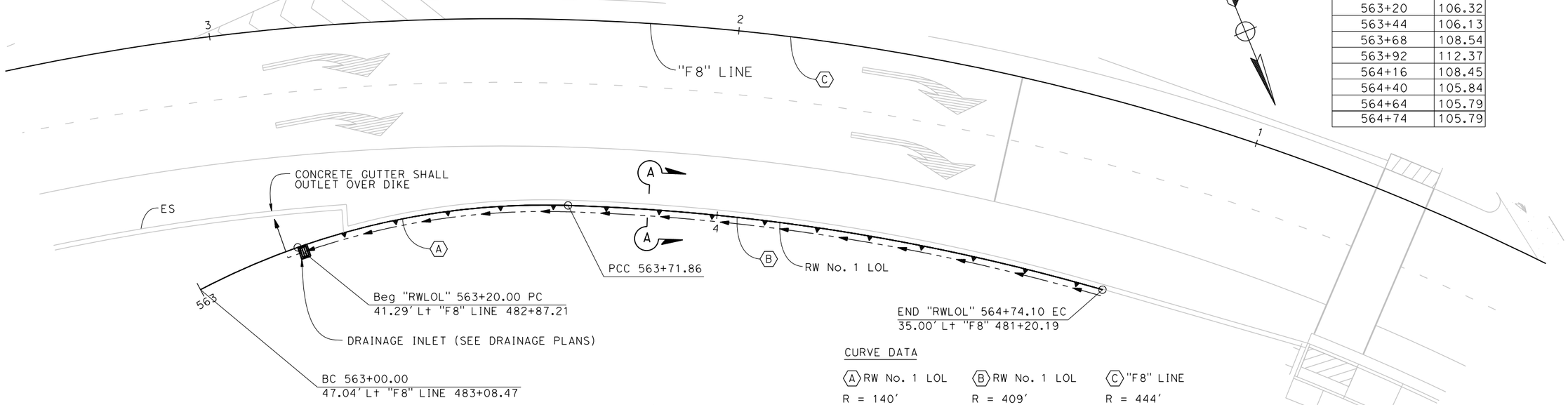
LEGEND

INDICATES DIRECTION OF FLOW ALONG CONCRETE GUTTER

XXX.XX INDICATES TOP OF Ftg Elev

TOP OF WALL ELEVATION

"RWLOL" Sta	Elev
563+20	106.32
563+44	106.13
563+68	108.54
563+92	112.37
564+16	108.45
564+40	105.84
564+64	105.79
564+74	105.79



CURVE DATA

(A) RW No. 1 LOL	(B) RW No. 1 LOL	(C) "F8" LINE
R = 140'	R = 409'	R = 444'
Δ = 29°24'39"	Δ = 14°19'22"	Δ = 50°19'11"
T = 36.74'	T = 51.39'	T = 208.55'
L = 71.86'	L = 102.24'	L = 389.94'

PLAN

RETAINING WALL No. 1

SCALE: 1"=10'

APPROVED FOR RETAINING WALL WORK ONLY

R-1

A.C.	02/15/22
REVISED BY	DATE REVISED
ARIANA CASTILLO	CARL GIBSON III
CALCULATED-DESIGNED BY	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	CARL GIBSON III

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 | DATE PLOTTED => 2/8/2022 | TIME PLOTTED => 5:12:08 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

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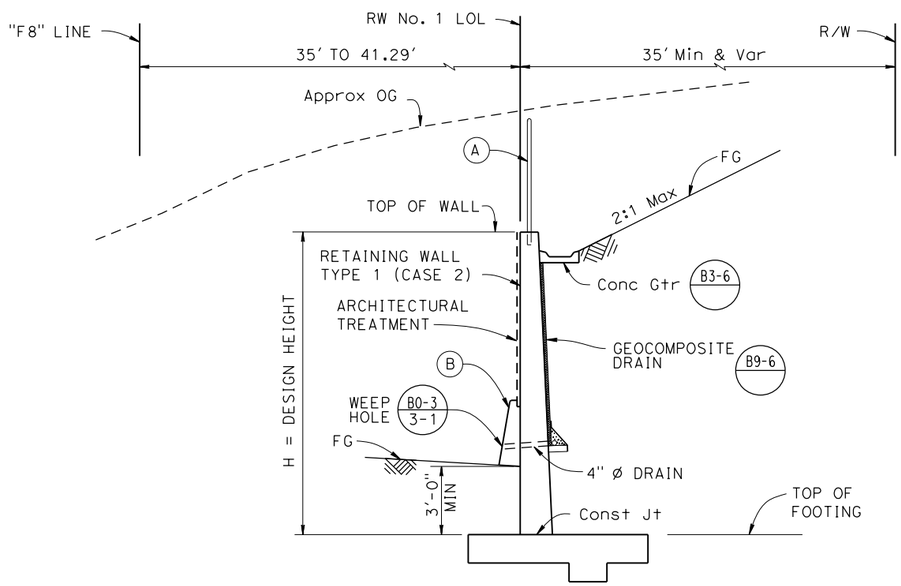
SUITE 130
SUISUN CITY, CA 94585

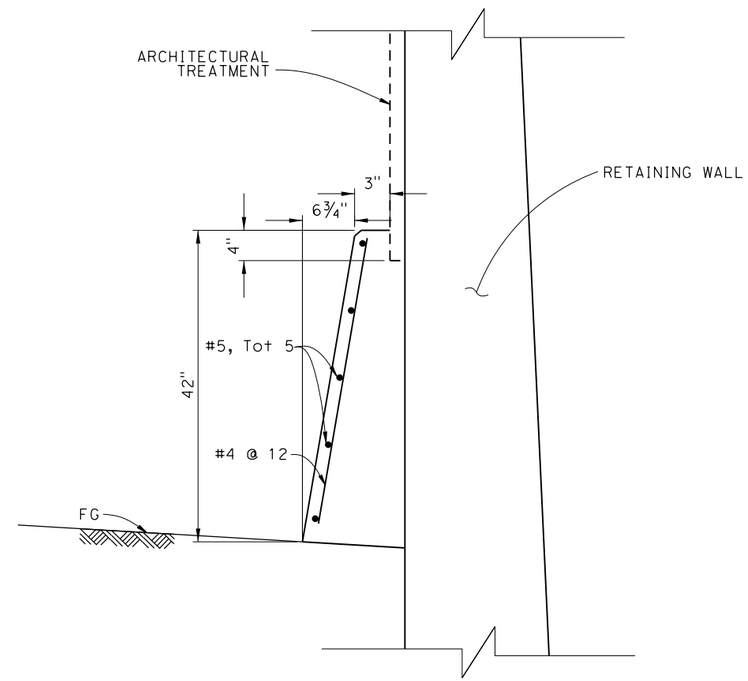
PRELIMINARY PLANS SUBJECT TO REVISION

(A) CHAIN LINK FENCE (TYPE CL-4, VINYL-CLAD) (A85 / RSP)

(B) CONCRETE BARRIER TYPE 60MD (Mod)



TYPICAL SECTION A-A



CONCRETE BARRIER TYPE 60MD (Mod)

RETAINING WALL No. 1

NO SCALE

R-2

A.C.	02/15/22
REVISED BY	DATE REVISED
ARIANA CASTILLO	CARL GIBSON III
CALCULATED-DESIGNED BY	CHECKED BY
CARL GIBSON III	
CONSULTANT FUNCTIONAL SUPERVISOR	

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BORDER LAST REVISED 7/2/2010 | USERNAME => jvaldivia | DGN FILE => 044A4414qa002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0738 | PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

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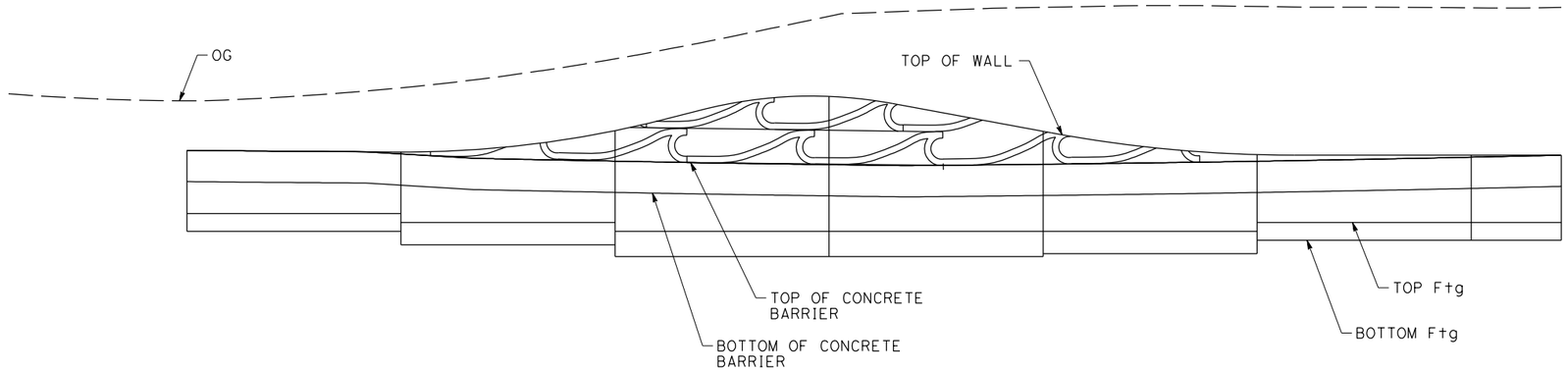
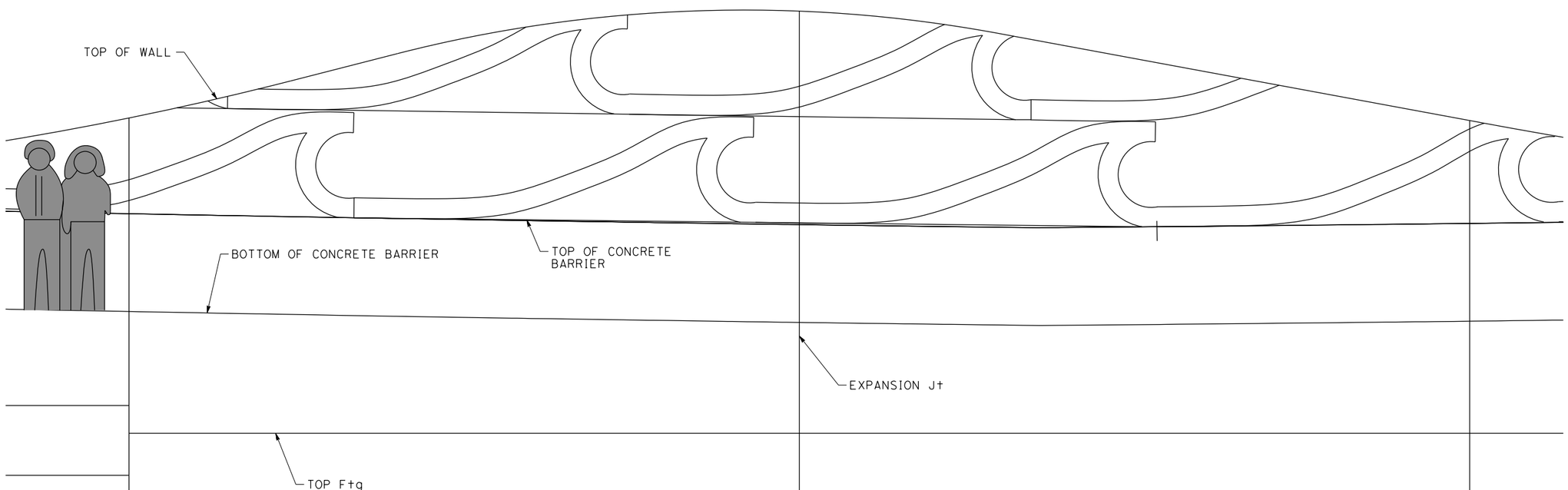
PRELIMINARY PLANS SUBJECT TO REVISION

NOTE:

ARCHITECTURAL TREATMENT MATCHES RETAINING WALL AT NORTH WEST QUADRANT OF INTERCHANGE





RETAINING WALL No. 1

ARCHITECTURAL DETAILS No. 1

NO SCALE

R-3

A.C.	02/15/22
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CONSULTANT FUNCTIONAL SUPERVISOR	CARL GIBSON III

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04	Sol	37	10.9		

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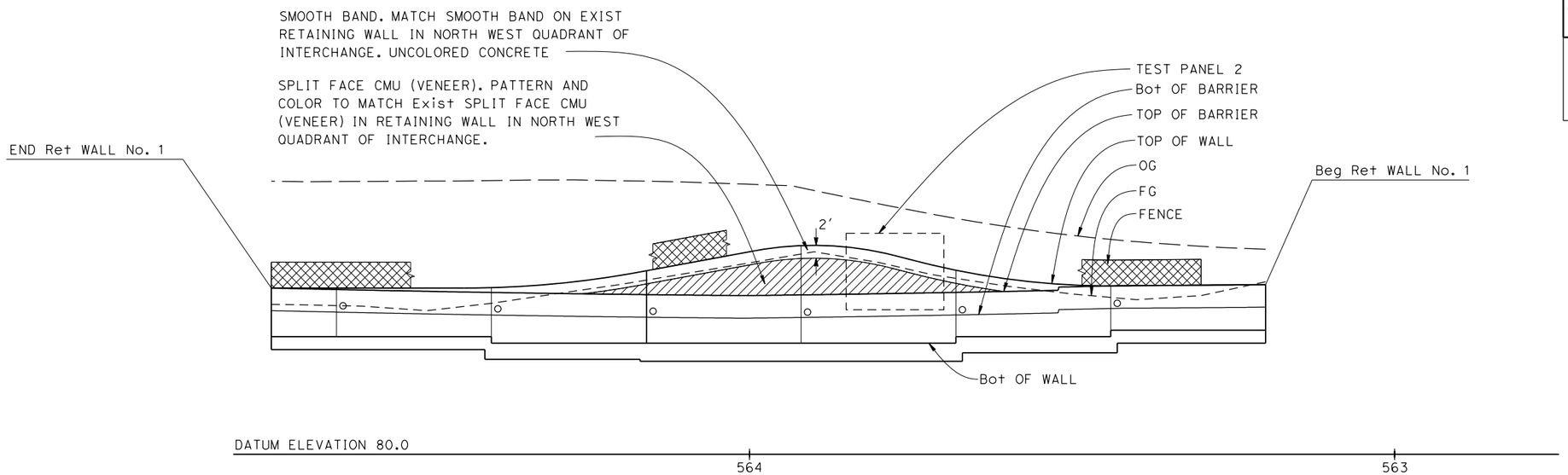
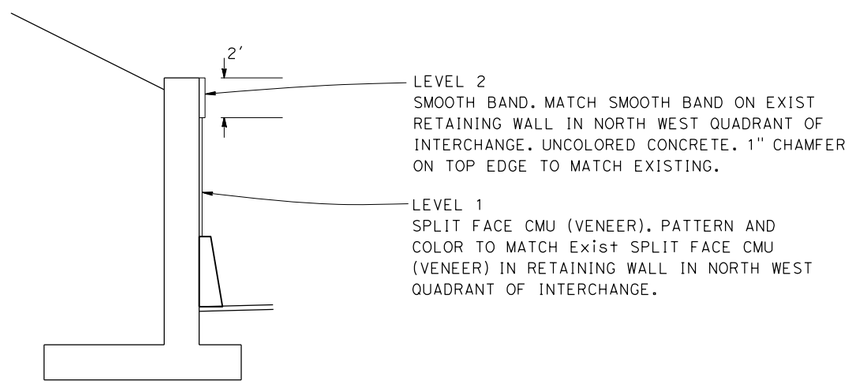


DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

SCALE: 1"=10'



LEGEND

LEVEL 0 = FACE OF WALL
LEVEL 1 = LEVEL 0 + 2"
LEVEL 2 = LEVEL 0 + 2 1/2"

TYPICAL SECTION

NO SCALE

RETAINING WALL No. 1
ARCHITECTURAL DETAILS No. 1

SCALE: AS SHOWN

R-4

REVISED BY	DATE REVISED
A.C.	02/15/22

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CARL GIBSON III — CONSULTANT FUNCTIONAL SUPERVISOR

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

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REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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PRELIMINARY PLANS SUBJECT TO REVISION

SEED MIX

BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
BACCHARIS PILULARIS (COYOTE BRUSH)	30	0.15
LEYMUS TRITICOIDES 'RIO' (CREEPING WILDRYE)	50	5
ERIOGONUM FASCICULATUM (CALIFORNIA BUCKWHEAT)	10	1.5
FESTUCA RUBRA MOLATE (MOLATE RED FESCUE)	50	9
HORDEUM BRACHYANTHERUM (MEADOW BARLEY)	50	11
LOTUS PURSHIANUS (SPANISH LOTUS)	50	2.5
NASSELLA PULCHRA (PURPLE NEEDLEGRASS)	50	10
VULPIA MICROSTACHYS (SMALL FESCUE)	50	5
	TOTAL	44.15

FIBER ROLLS

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
FIBER ROLLS MUST BE INSTALLED BEFORE HYDROSEED	FIBER ROLLS	FIBER ROLL	TYPE B 8" TO 10" Dia	TYPE 2 FIBER ROLL INSTALLATION

EROSION CONTROL TYPE 1

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
STEP 1	COMPOST	COMPOST	COMPOST	50 CY/ACRE
STEP 2	HYDROSEED	SEED		30 LBS/ACRE
		FIBER	WOOD	285 LBS/ACRE
STEP 3	HYDROMULCH	MULCH		2,500 LBS/ACRE
		TACKIFIER	GUAR	200 LBS/ACRE

EROSION CONTROL TYPE 2

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
STEP 1	COMPOST	COMPOST	COMPOST	50 CY/ACRE
STEP 2	ROLLED EROSION CONTROL PRODUCT (NETTING)	NETTING	TYPE B	
STEP 3	HYDROSEED	SEED		30 LBS/ACRE
		FIBER	WOOD	285 LBS/ACRE
STEP 4	HYDROMULCH	MULCH		2,500 LBS/ACRE
		TACKIFIER	GUAR	200 LBS/ACRE

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL LEGEND

ECL-1

REVISED BY	DATE REVISED
R.L.	02/15/22

RALEIGH LANGSTON — CALCULATED-DESIGNED BY
ERIN McPHERSON — CHECKED BY
CARL GIBSON III — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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04	Sol	37	10.9		

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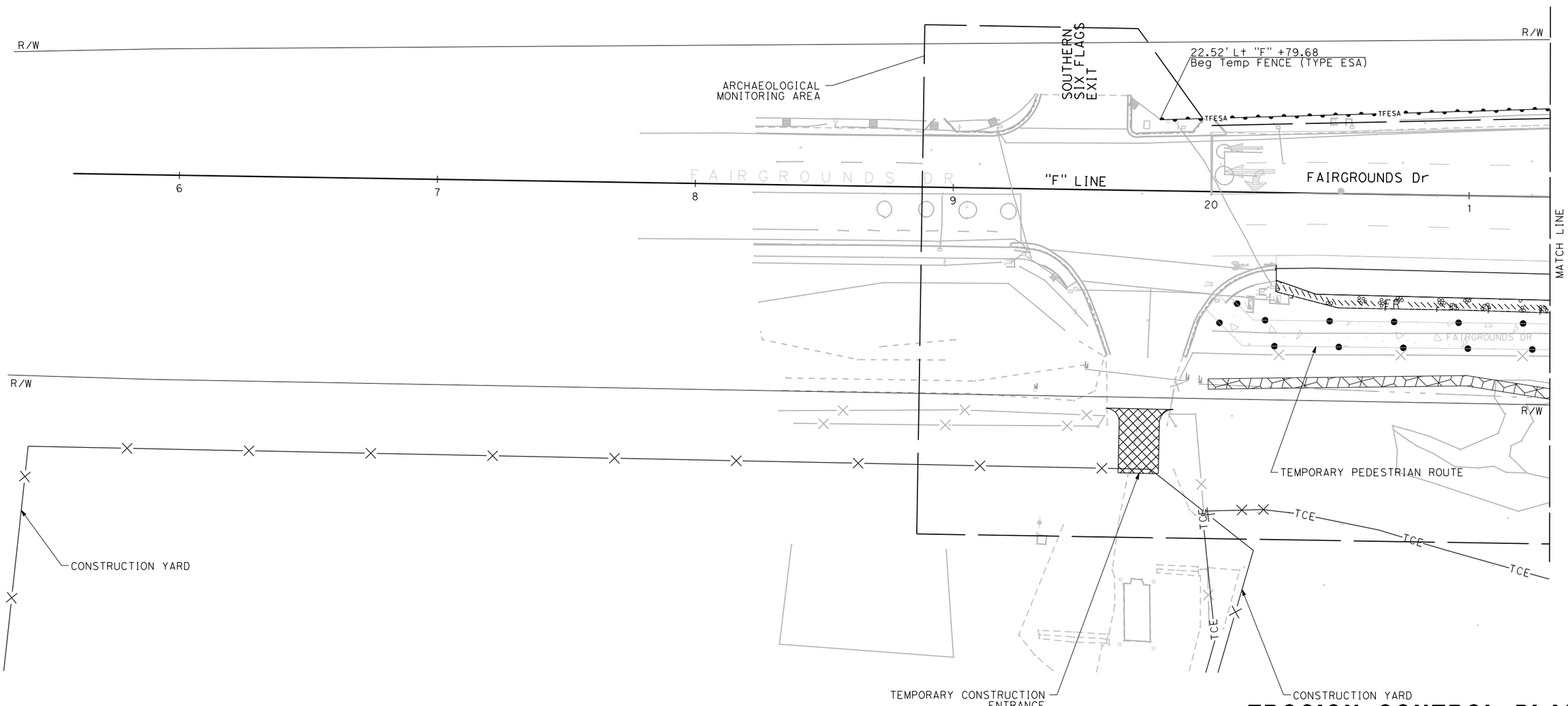
PRELIMINARY PLANS SUBJECT TO REVISION

NOTE:

FOR STAGING DETAILS NOT SHOWN, SEE STAGING PLANS.

LEGEND:

- EROSION CONTROL TYPE 1
- EROSION CONTROL TYPE 2
- FR — FIBER ROLL
- DELINEATOR
- TFESA — TEMPORARY FENCE (TYPE ESA)
- FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- I_B — BEGIN TREATMENT BEST MANAGEMENT PRACTICE (TBMP) MARKER
- I_E — END TREATMENT BEST MANAGEMENT PRACTICE (TBMP) MARKER



APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL PLAN

SCALE: 1" = 20'

EC-1

REVISED BY	DATE REVISED
R.L.	02/15/22

RALEIGH LANGSTON — ERIN McPHERSON — CALCULATED-DESIGNED BY — CHECKED BY

CARL GIBSON III — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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BORDER LAST REVISED 7/2/2010 — USERNAME => jvaldivia — DGN FILE => 044A4414te001.dgn — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — UNIT 0738 — PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

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SUISUN CITY, CA 94585

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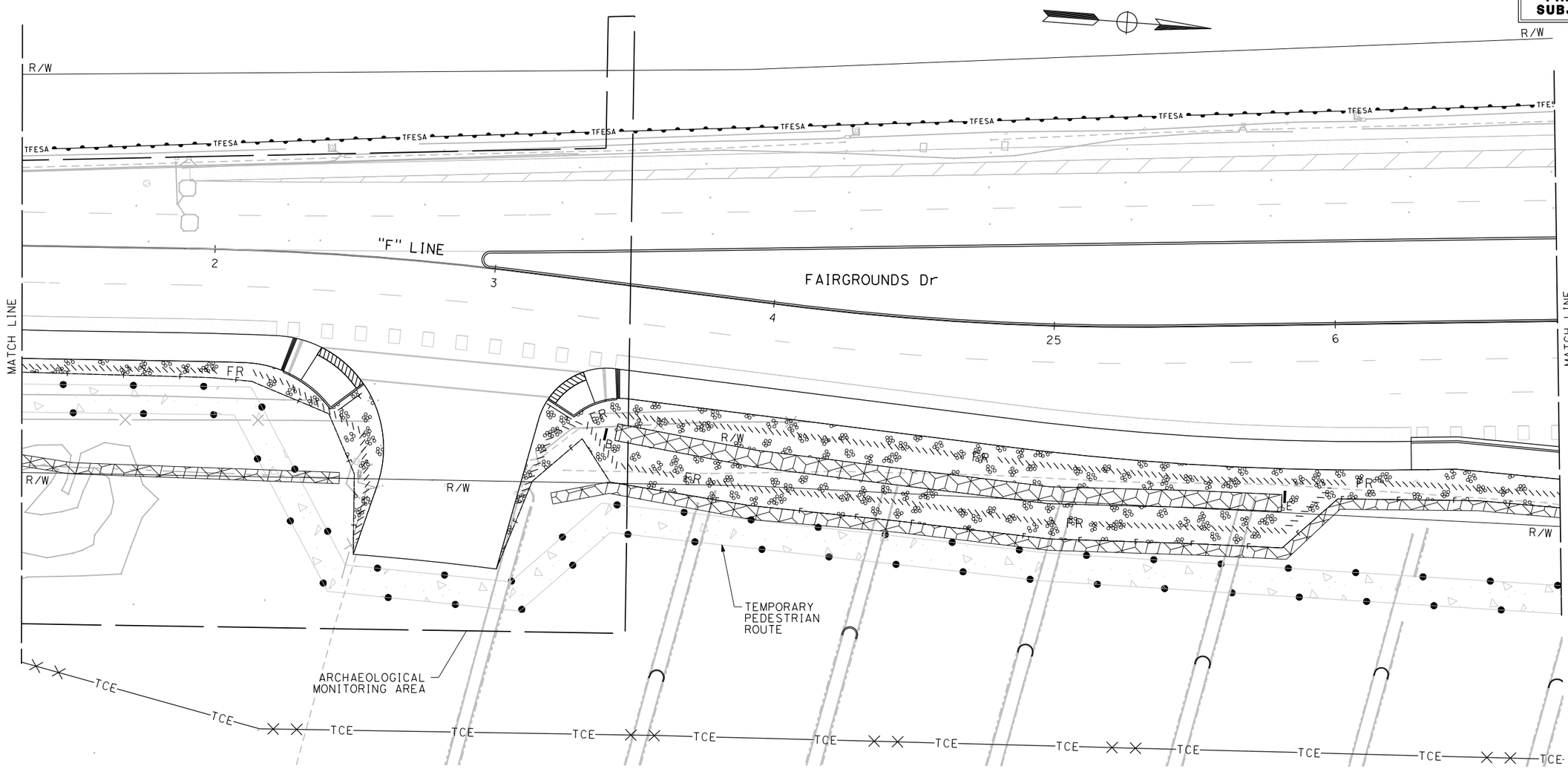

FOR NOTES AND LEGEND, SEE SHEET EC-1

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL PLAN

SCALE: 1" = 20'

EC-2

REVISED BY	DATE REVISED
R.L.	02/15/22

RALEIGH LANGSTON — ERIN McPHERSON — CALCULATED-DESIGNED BY — CHECKED BY

CARL GIBSON III — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

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PLANS APPROVAL DATE

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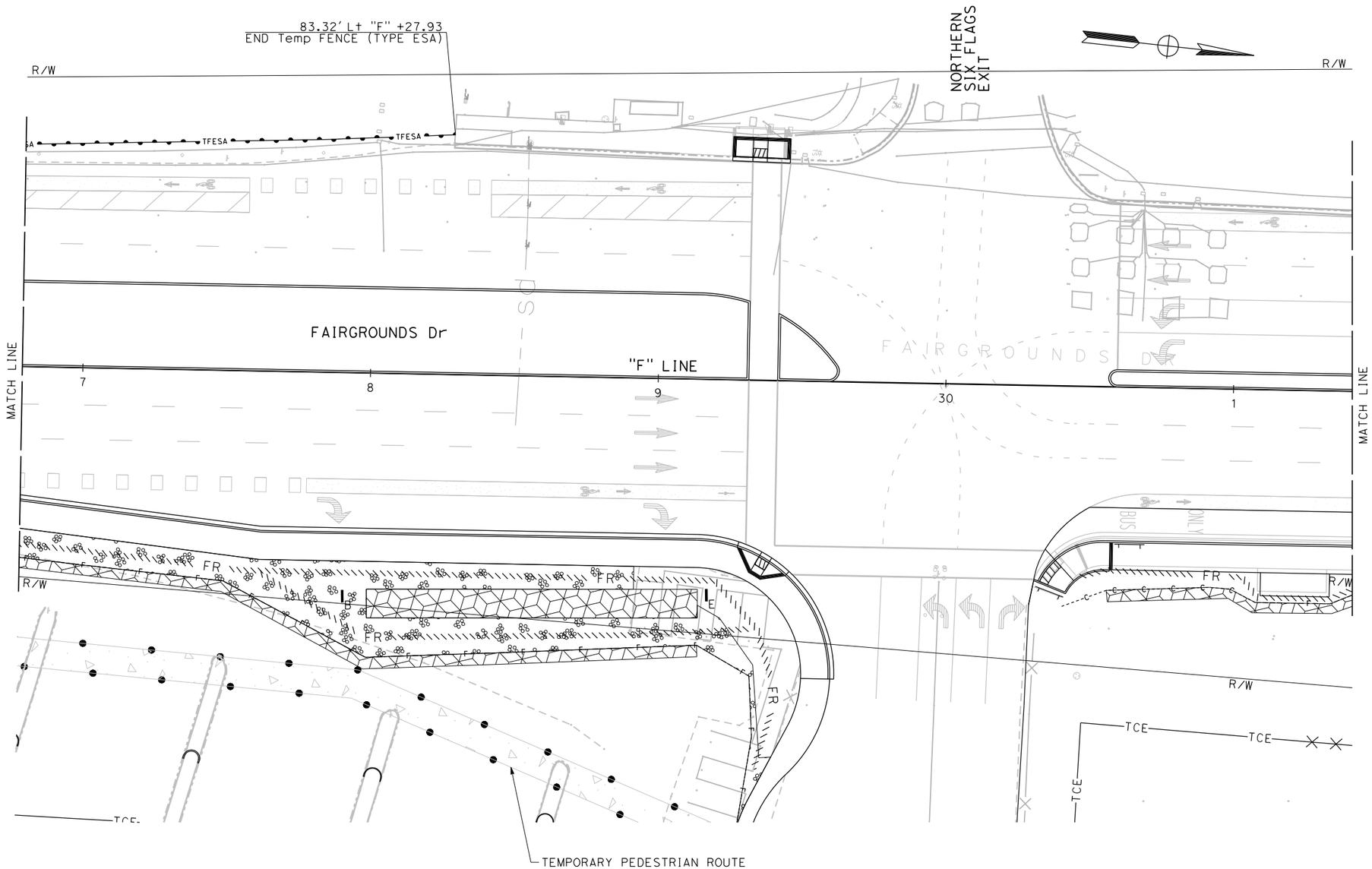

FOR NOTES AND LEGEND, SEE SHEET EC-1

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL PLAN

SCALE: 1" = 20'

EC-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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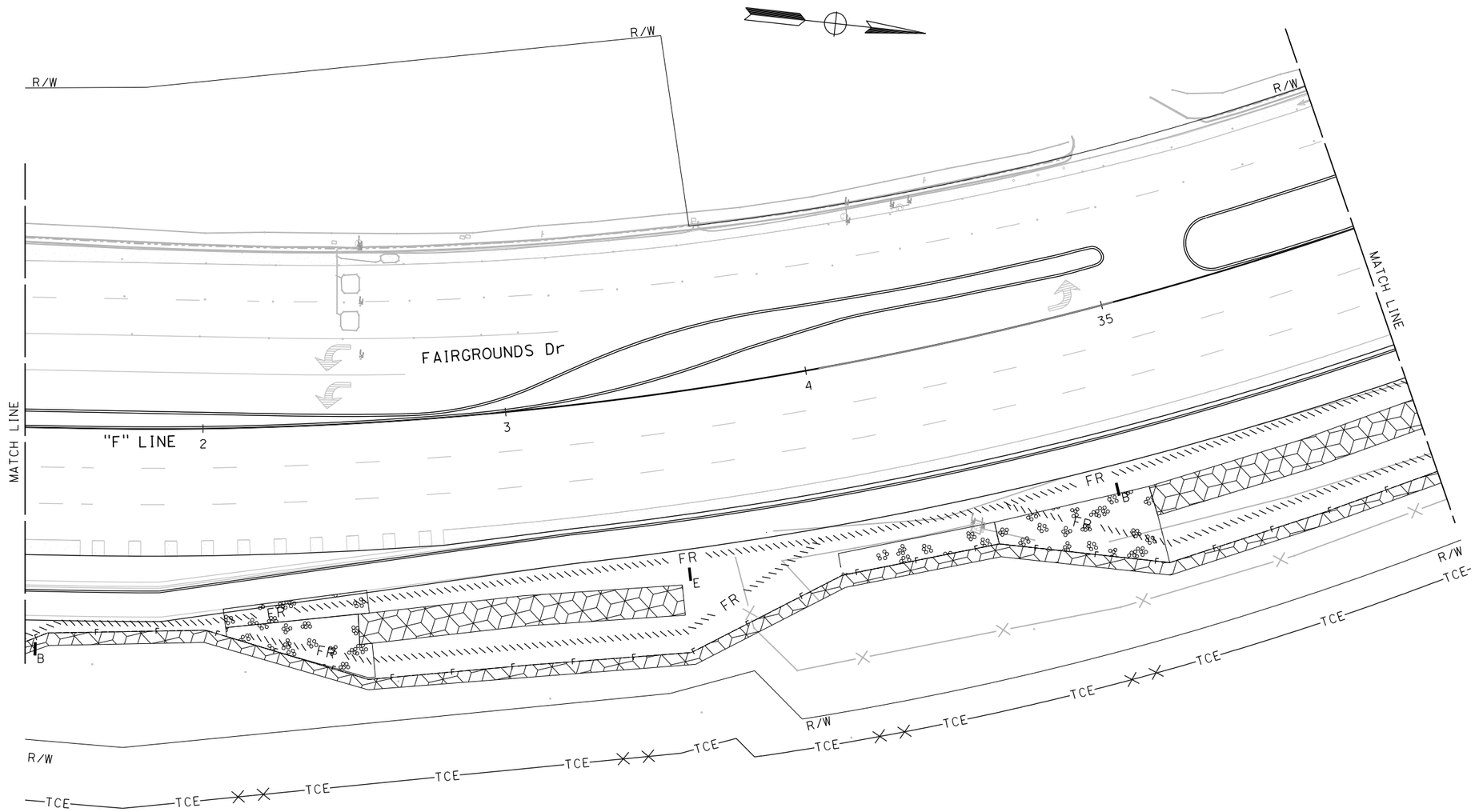

FOR NOTES AND LEGEND, SEE SHEET EC-1

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL PLAN

SCALE: 1" = 20'

EC-4

REVISED BY	DATE REVISED
R.L.	02/15/22

CALCULATED-DESIGNED BY: RALEIGH LANGSTON
CHECKED BY: ERIN McPHERSON
CONSULTANT FUNCTIONAL SUPERVISOR: CARL GIBSON III

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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DATE PLOTTED => 7/28/2022
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

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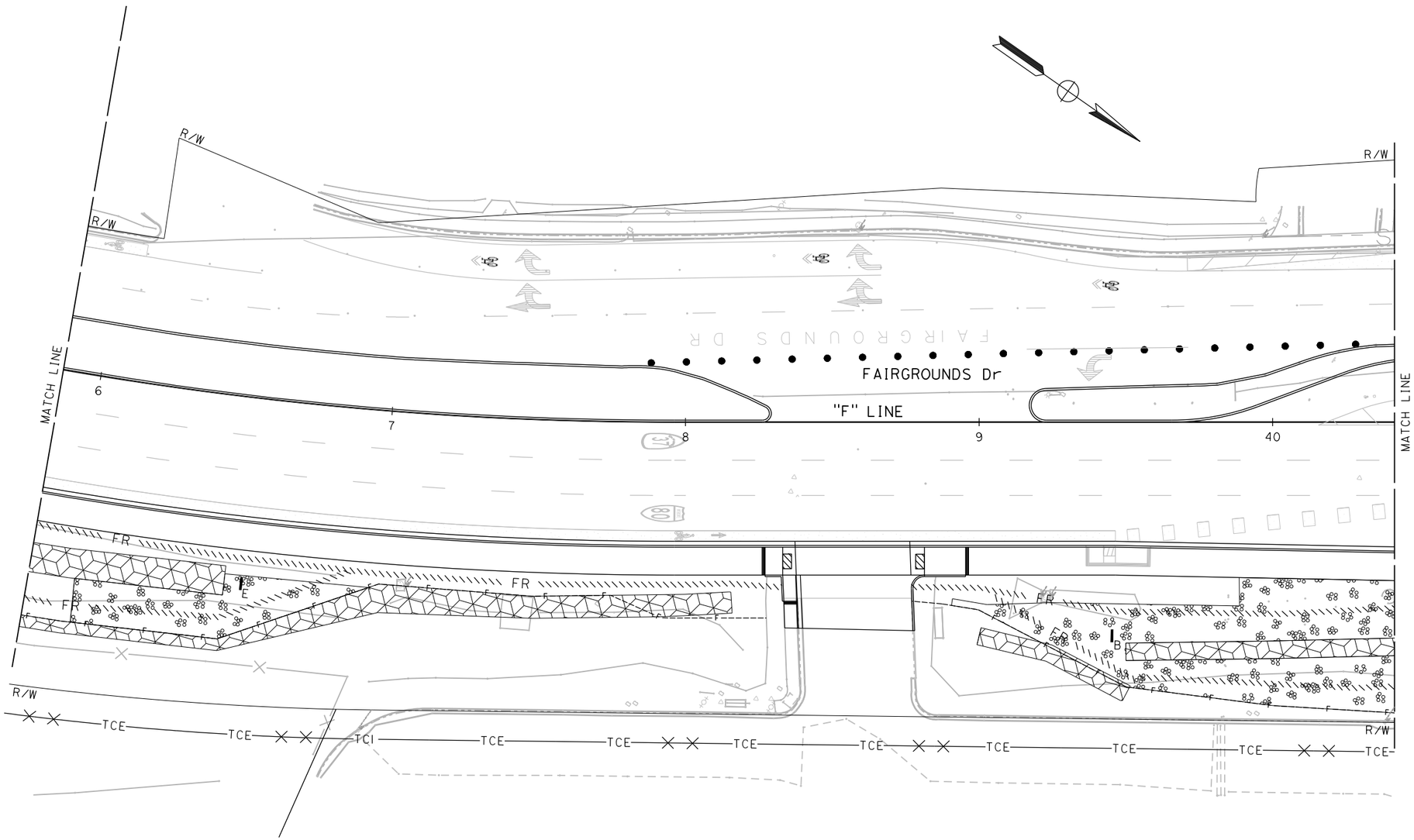

FOR NOTES AND LEGEND, SEE SHEET EC-1

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL PLAN

SCALE: 1" = 20'

EC-5

REVISED BY	DATE REVISED
R.L.	02/15/22

RALEIGH LANGSTON — CALCULATED-DESIGNED BY
ERIN McPHERSON — CHECKED BY
CARL GIBSON III — CONSULTANT FUNCTIONAL SUPERVISOR

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

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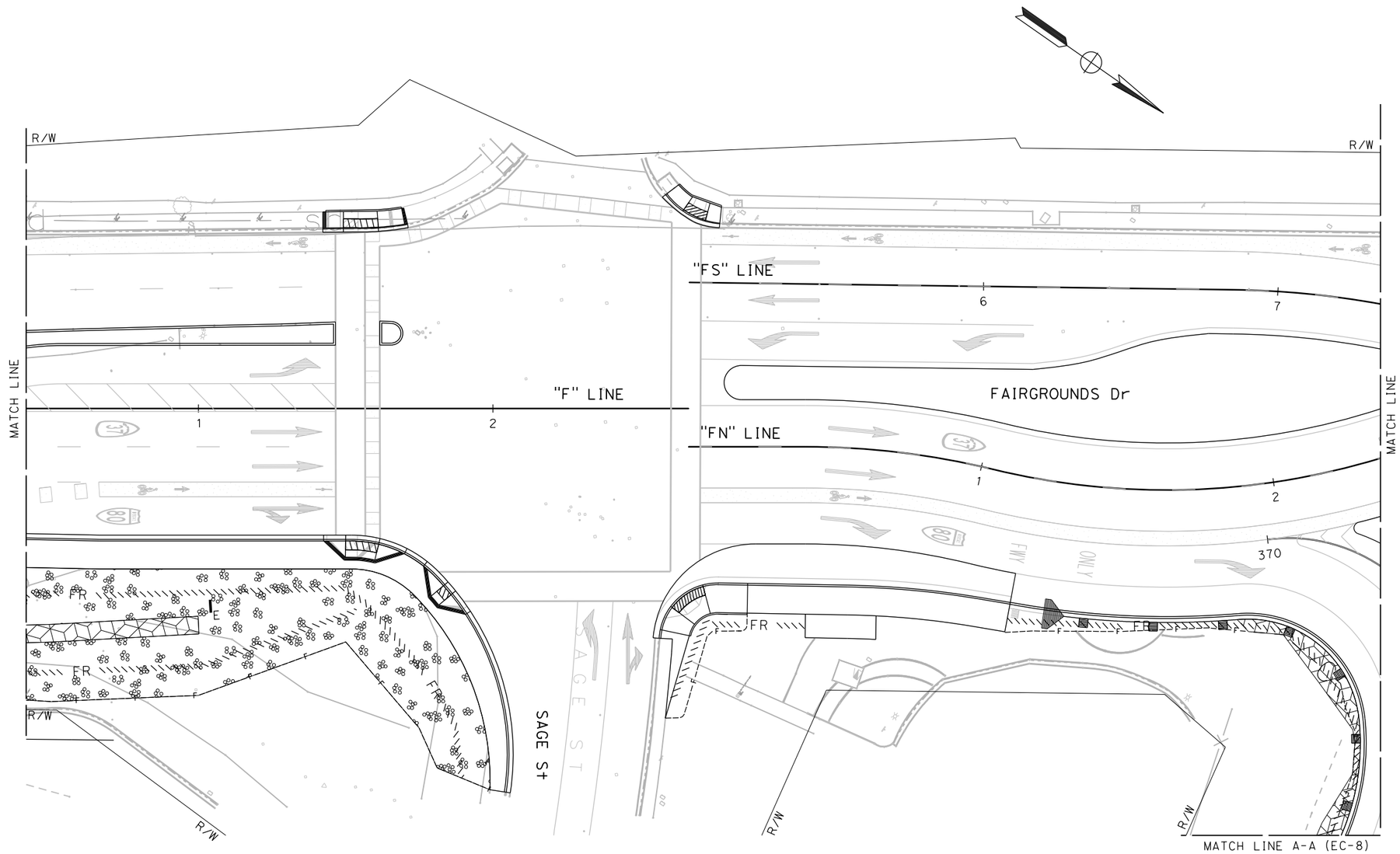
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION



FOR NOTES AND LEGEND, SEE SHEET EC-1

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL PLAN

SCALE: 1" = 20'

EC-6

REVISED BY	DATE REVISED
R.L.	02/15/22

RALEIGH LANGSTON — CALCULATED-DESIGNED BY
ERIN McPHERSON — CHECKED BY
CARL GIBSON III — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

X:\SR 37_FAIRGROUNDS DRIVE\000_CAD\Sheets\031-ErosionCrl\TE-Plans\044A4414te006.dgn

LAST REVISION 00-00-00 | DATE PLOTTED => 7/28/2022 | TIME PLOTTED => 10:58:40 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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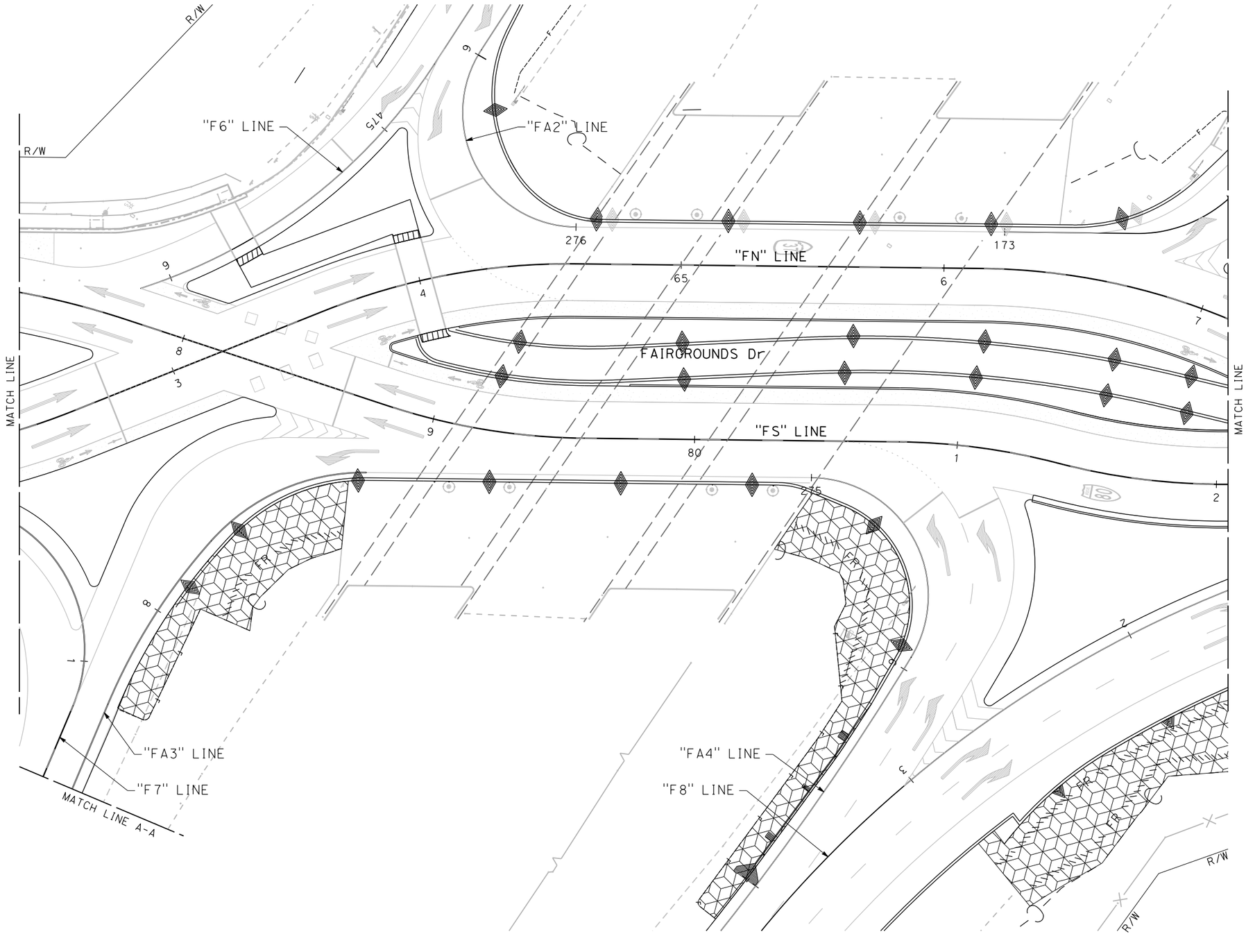
CA 95670

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER
SUITE 130
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION



FOR NOTES AND LEGEND, SEE SHEET EC-1

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL PLAN

SCALE: 1" = 20'

EC-7

R.L.	02/15/22
REVISED BY	DATE REVISED
RALEIGH LANGSTON	ERIN McPHERSON
CALCULATED-DESIGNED BY	CHECKED BY
CARL GIBSON III	CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 00-00-00 | DATE PLOTTED => 7/28/2022 TIME PLOTTED => 10:58:46 AM

BORDER LAST REVISED 7/2/2010 | USERNAME => jvaldivia DGN FILE => 044A4414te007.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0738 | PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

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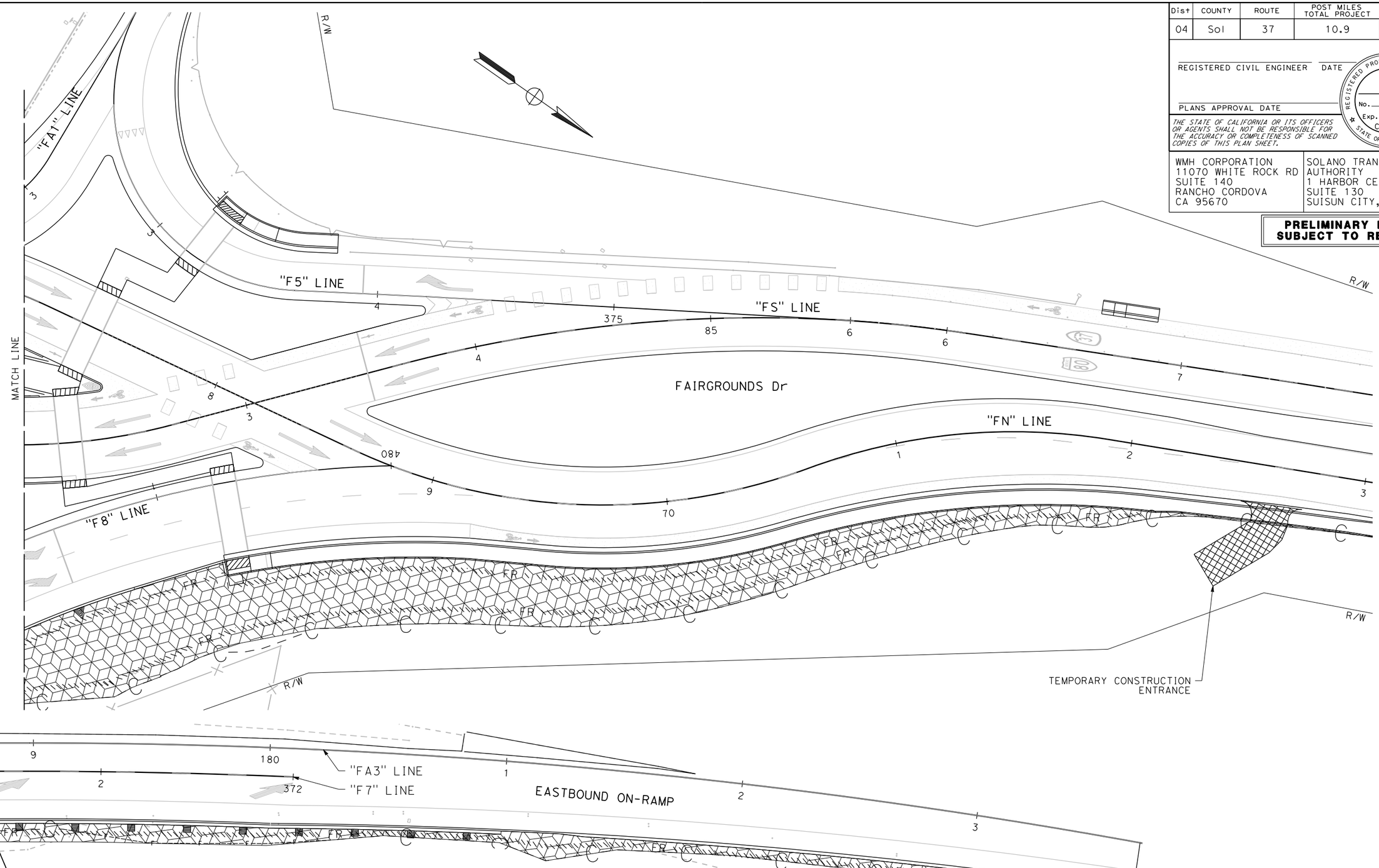

FOR NOTES AND LEGEND, SEE SHEET EC-1

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL PLAN

SCALE: 1" = 20'

EC-8

R.L.	02/15/22
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CALCULATED-DESIGNED BY	CHECKED BY
CARL GIBSON III	
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LAST REVISION 00-00-00 | DATE PLOTTED => 7/28/2022 | TIME PLOTTED => 10:58:50 AM

BORDER LAST REVISED 7/2/2010 | USERNAME => jvaldivia | DGN FILE => 044A4414te008.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0738 | PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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PRELIMINARY PLANS SUBJECT TO REVISION

EROSION CONTROL QUANTITIES

SHEET No.	DESCRIPTION	AREA (N)	COMPOST	HYDROSEED	HYDROMULCH	ROLLED EROSION CONTROL PRODUCT (NETTING)	FIBER ROLLS	MOVE IN/ MOVE OUT (EROSION CONTROL)	TEMPORARY FENCE (TYPE ESA)	TREATMENT BEST MANAGEMENT PRACTICE MARKER (TBMP)
		SQFT	CY	SQFT			LF	EA	LF	EA
EC-1	EROSION CONTROL TYPE 1	493	1	493	493	535	107	1	-	-
	EROSION CONTROL TYPE 2	531	1	531	531					
EC-2	EROSION CONTROL TYPE 1	8,870	11	8,870	8,870	3,355	835			2
	EROSION CONTROL TYPE 2	3,355	4	3,355	3,355					
EC-3	EROSION CONTROL TYPE 1	4,234	5	4,234	4,234	2,405	593			2
	EROSION CONTROL TYPE 2	2,401	3	2,401	2,401					
EC-4	EROSION CONTROL TYPE 1	2,153	3	2,153	2,153	3,915	814			3
	EROSION CONTROL TYPE 2	3,911	5	3,911	3,911					
EC-5	EROSION CONTROL TYPE 1	5,012	6	5,012	5,012	3,140	680			2
	EROSION CONTROL TYPE 2	3,136	4	3,136	3,136					
EC-6	EROSION CONTROL TYPE 1	5,772	7	5,772	5,772	855	539			1
	EROSION CONTROL TYPE 2	853	1	853	853					
EC-7	EROSION CONTROL TYPE 1	0	0	0	0	7,890	347			-
	EROSION CONTROL TYPE 2	7,889	10	7,889	7,889					
EC-8	EROSION CONTROL TYPE 1	0	0	0	0	14,285	1,384			-
	EROSION CONTROL TYPE 2	14,282	17	14,282	14,282					
EC-1	"F" 19+79.68 TO 28+27.93	-	-	-	-	-	-	-	846	-
TOTAL			78	62,892	62,892	36,380	5,300	1	846	10

THIS PLAN ACCURATE FOR PERMANENT BMP WORK ONLY.

EROSION CONTROL QUANTITIES

ECQ-1

REVISED BY	DATE REVISED
R.L.	02/15/22

RALEIGH LANGSTON — ERIN McPHERSON

CALCULATED-DESIGNED BY — CHECKED BY

SUPERVISOR — CARL GIBSON III

CONSULTANT FUNCTIONAL SUPERVISOR

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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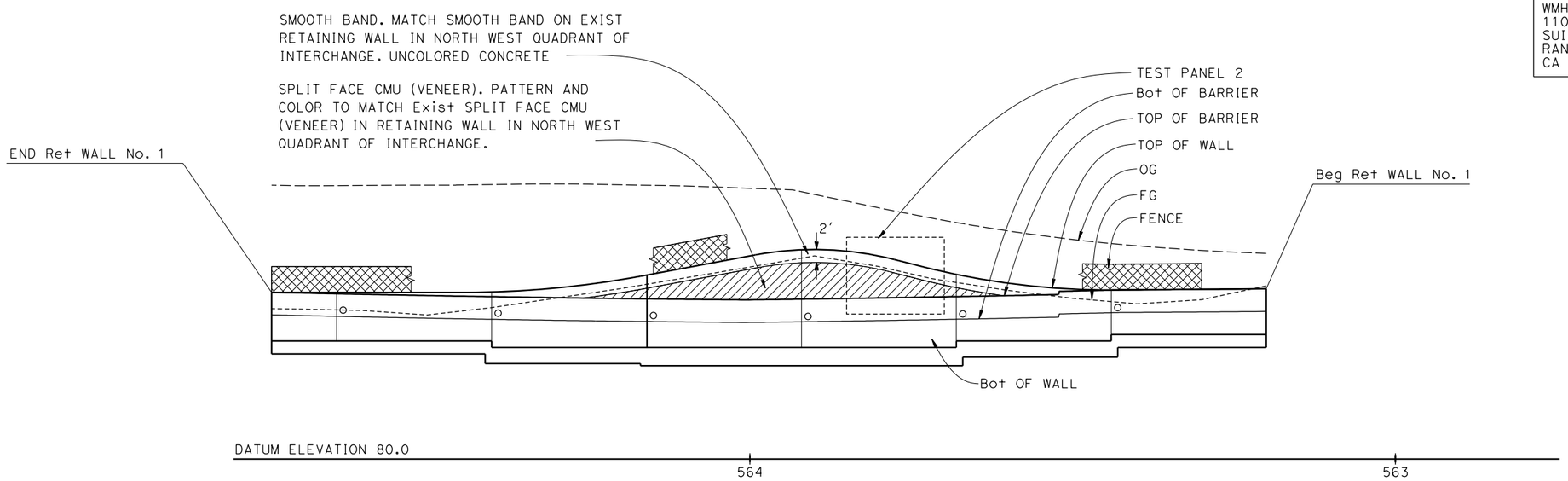
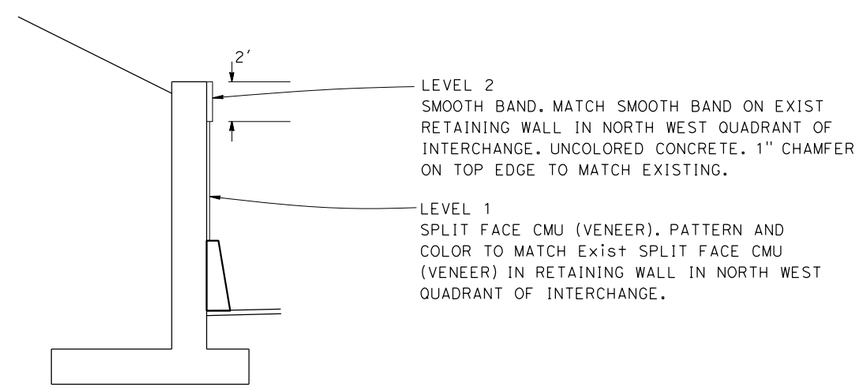


DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

1"=10'



LEGEND

LEVEL 0 = FACE OF WALL
LEVEL 1 = LEVEL 0 + 2"
LEVEL 2 = LEVEL 0 + 2 1/2"

TYPICAL SECTION

NO SCALE

RETAINING WALL No. 1
ARCHITECTURAL DETAILS No. 1

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

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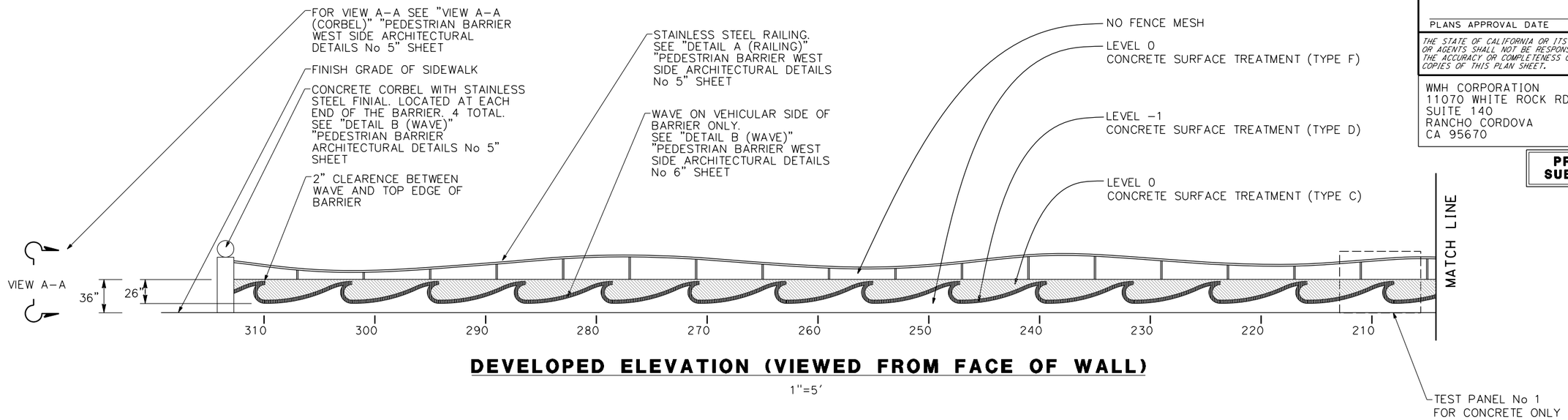
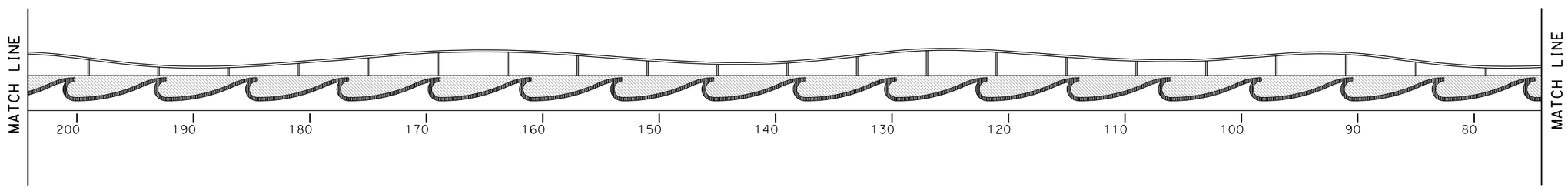


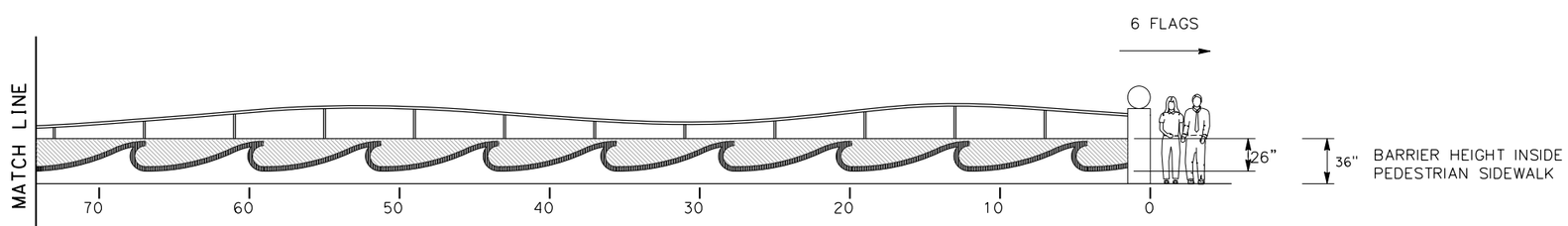
DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

1"=5'



DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

1"=5'



DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

1"=5'

PEDESTRIAN BARRIER WEST SIDE ARCHITECTURAL DETAILS No. 1

REVISED BY | DATE REVISED

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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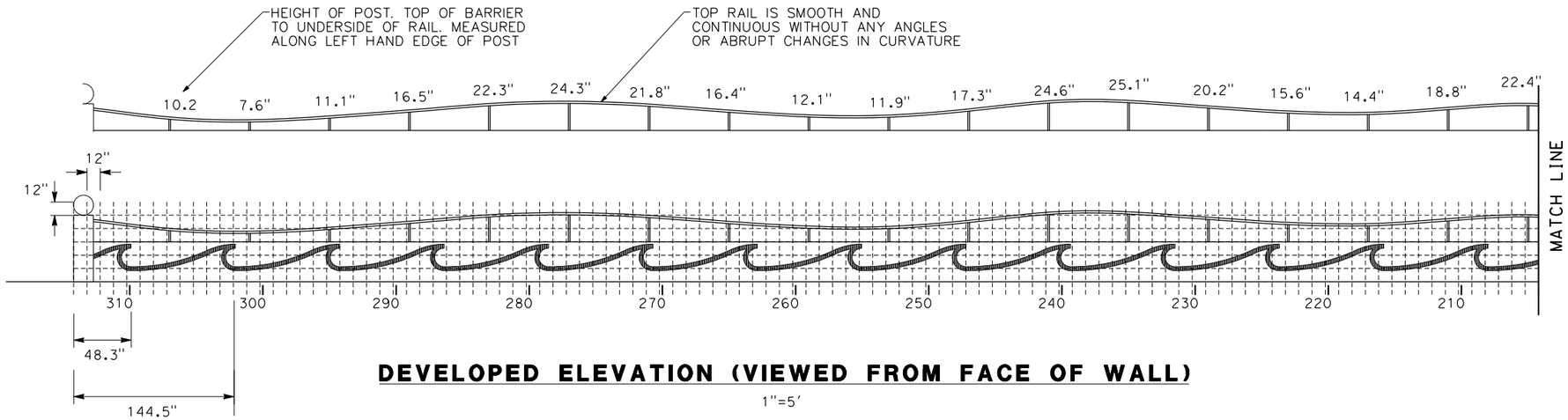
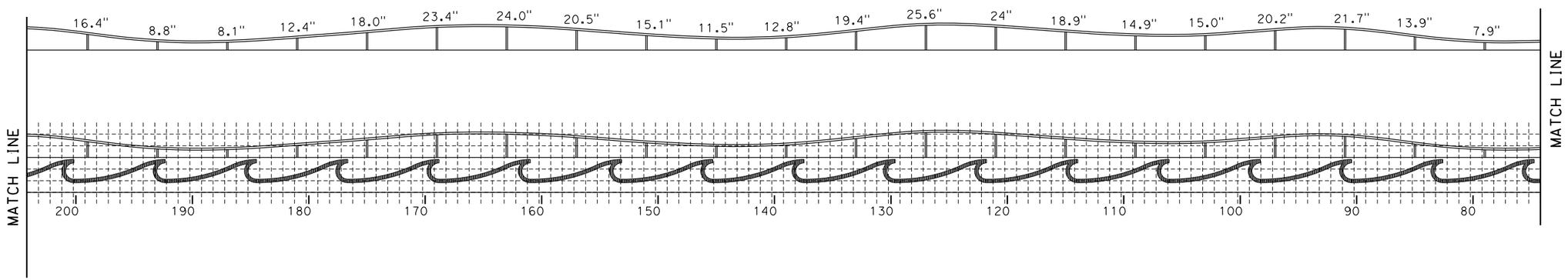
PRELIMINARY PLANS SUBJECT TO REVISION



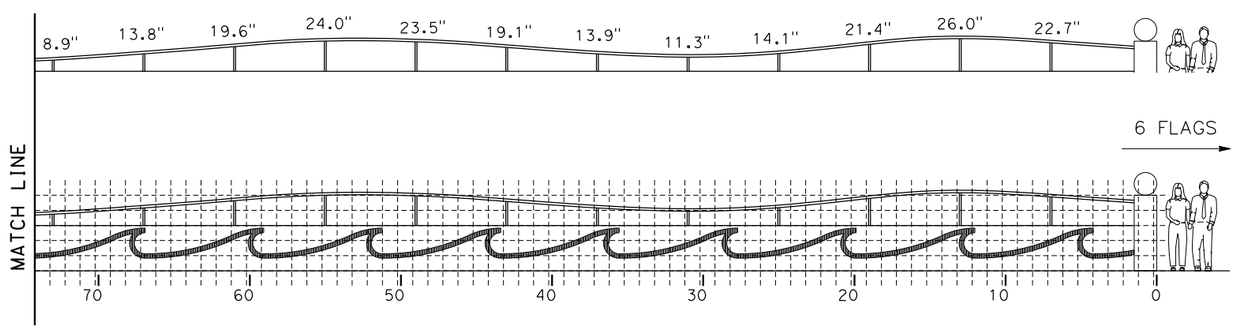
DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

1"=5'



DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

1"=5'



DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

1"=5'

PEDESTRIAN BARRIER WEST SIDE ARCHITECTURAL DETAILS No.2

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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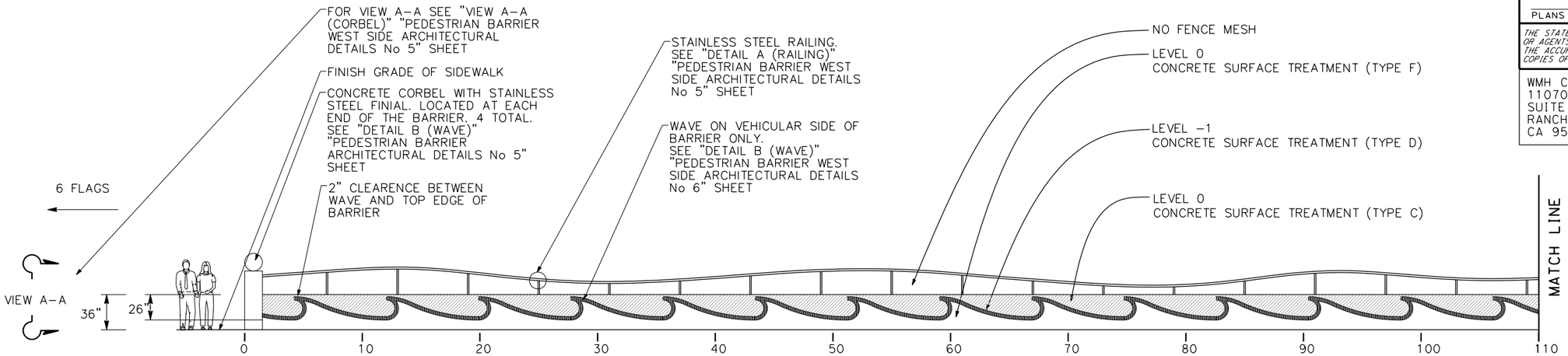
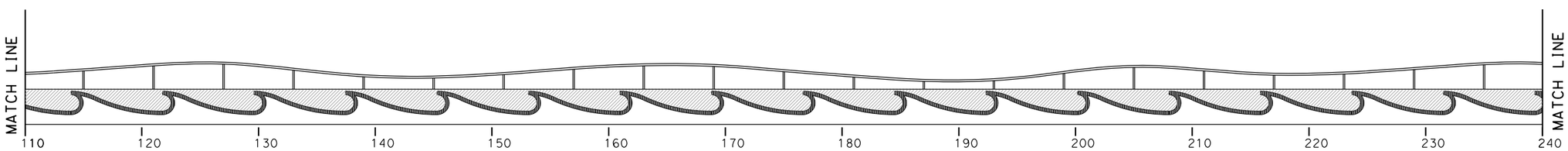
PRELIMINARY PLANS SUBJECT TO REVISION



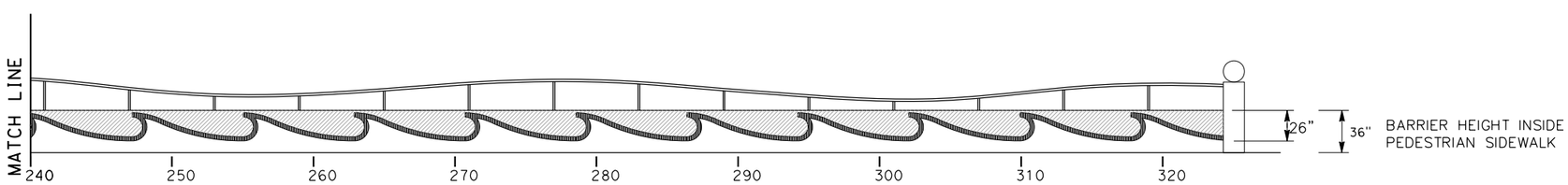
DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

1"=5'



DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

1"=5'



DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

1"=5'

PEDESTRIAN BARRIER EAST SIDE ARCHITECTURAL DETAILS No. 3

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BORDER LAST REVISED 7/2/2010 | USERNAME => Simon | DGN FILE => 044A4414ga017-3 aesthetics.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0738 | PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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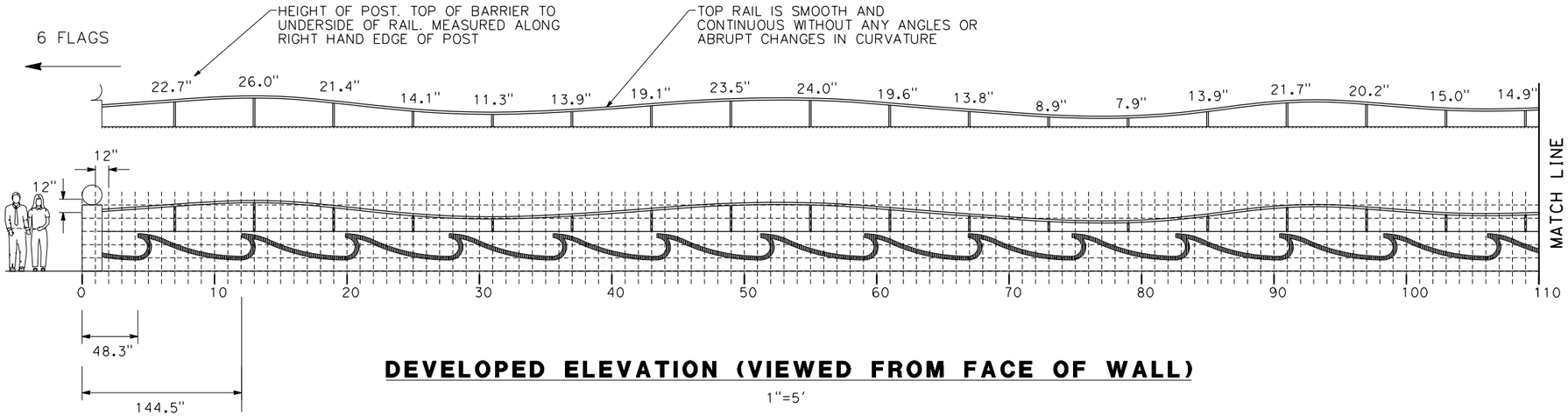
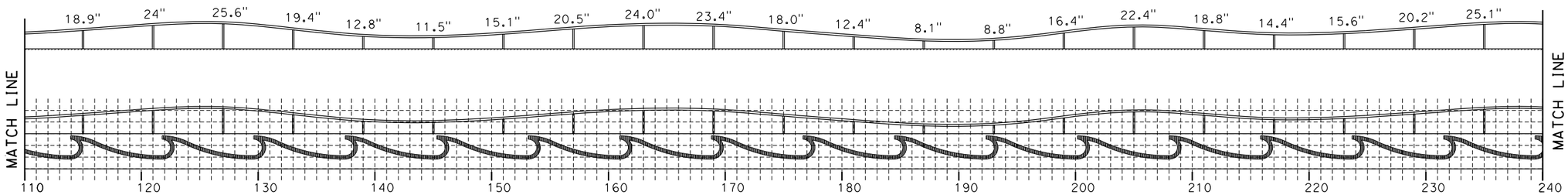
PRELIMINARY PLANS SUBJECT TO REVISION



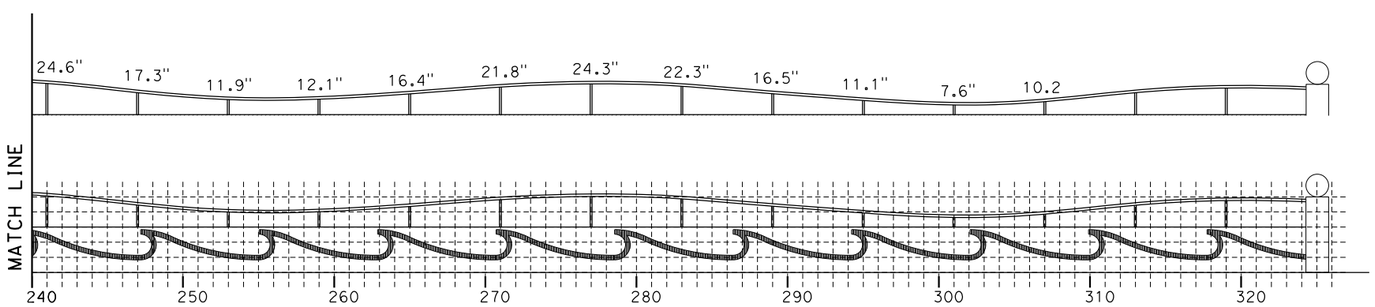
DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

1"=5'



DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

1"=5'



DEVELOPED ELEVATION (VIEWED FROM FACE OF WALL)

1"=5'

PEDESTRIAN BARRIER EAST SIDE
ARCHITECTURAL DETAILS No. 4

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER DATE

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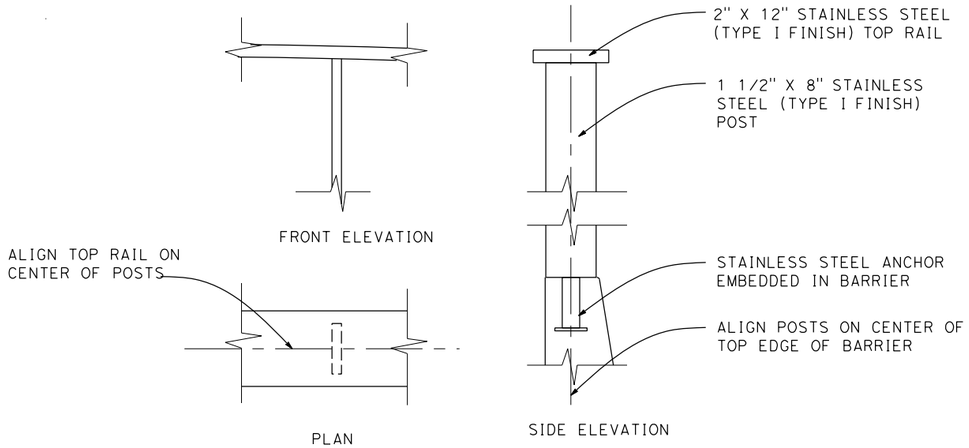
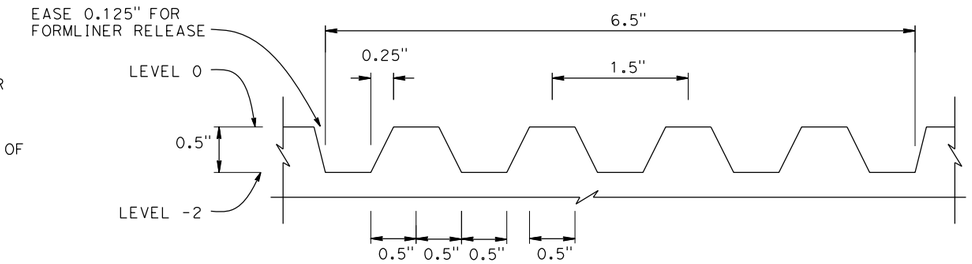


NOTES

EASE ALL EDGES OF RAILINGS

DETAIL A (RAILING)

1"=1'

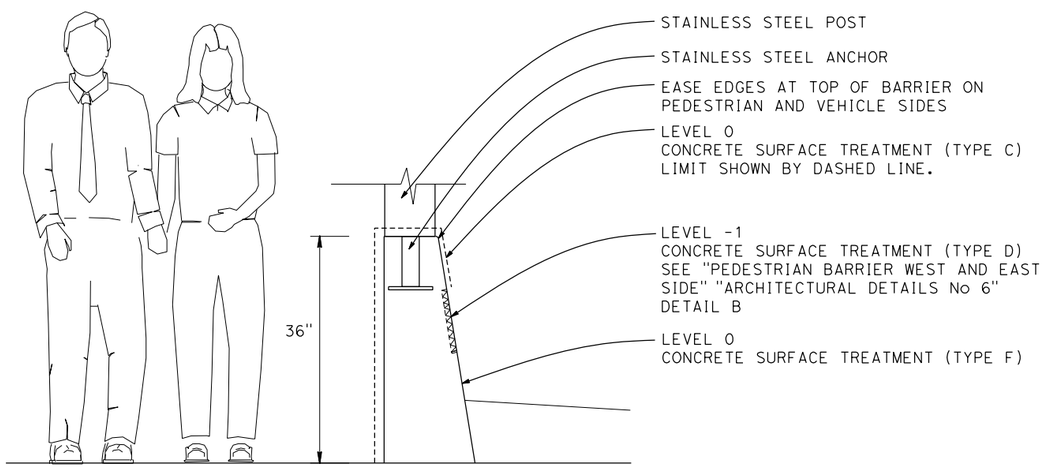


SECTION A-A

NO SCALE

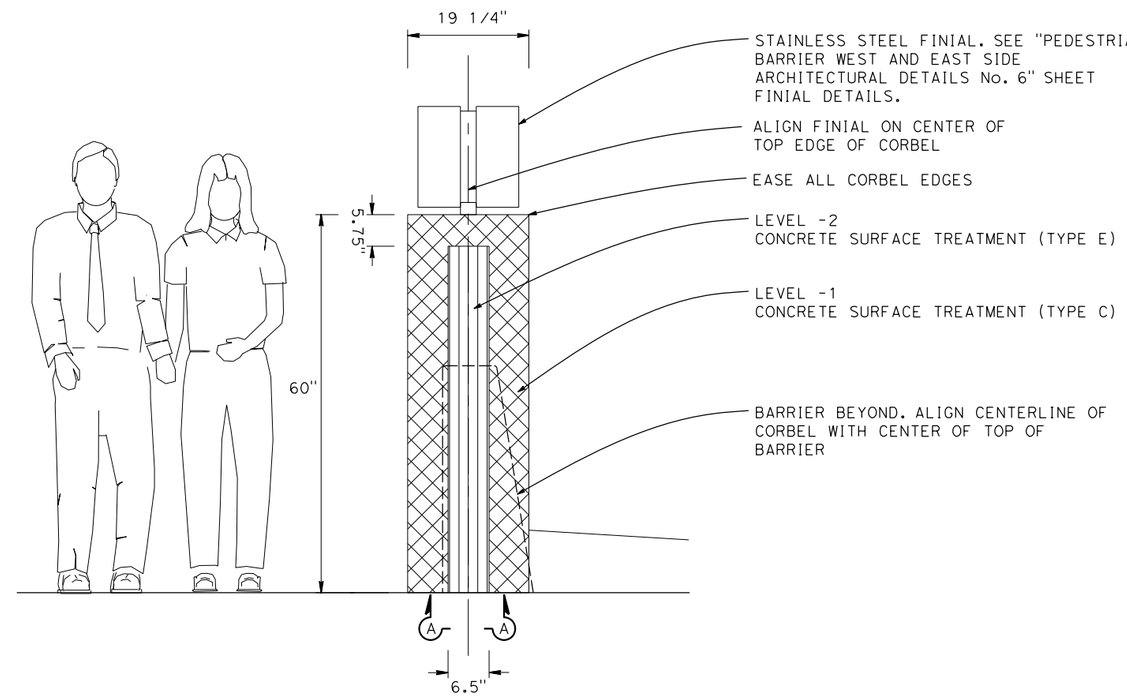
LEGEND

LEVEL 0 = FACE OF BARRIER
LEVEL -1 = LEVEL 0 - 0.375"
LEVEL -2 = FACE OF CORBEL 0 - 0.5"



SECTION THROUGH PEDESTRIAN BARRIER

1"=1'



VIEW A-A (CORBEL)

1"=1'

PEDESTRIAN BARRIER WEST AND EAST SIDE ARCHITECTURAL DETAILS No. 5

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

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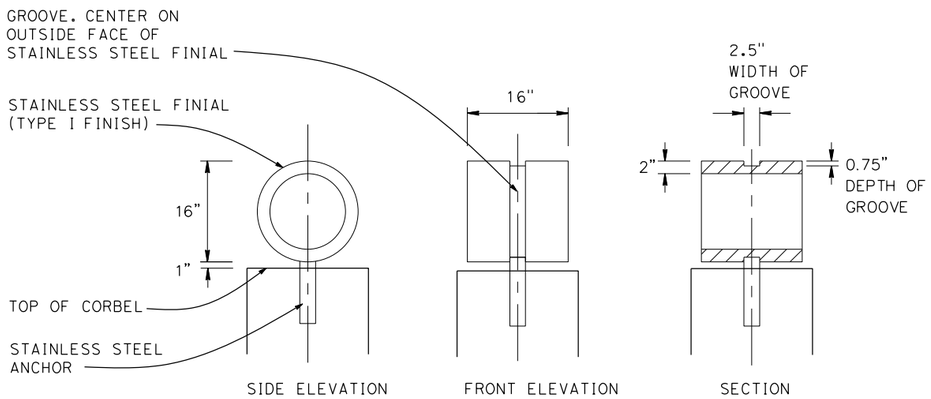
PRELIMINARY PLANS SUBJECT TO REVISION

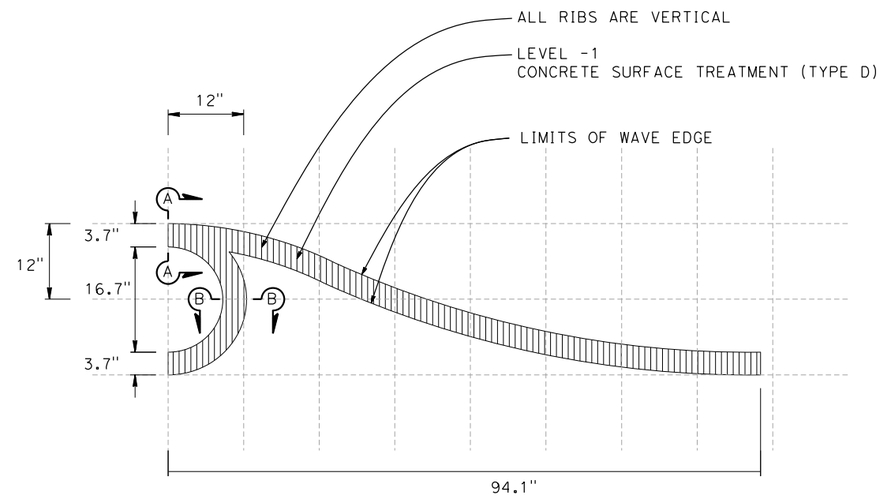
NOTES FOR FINIAL DETAIL

1. FINIAL. FABRICATE FROM STAINLESS STEEL CYLINDER
2. EASE ALL EDGES OF FINIAL
3. ALL STAINLESS STEEL IS TYPE I FINISH



FINIAL

1"=1'

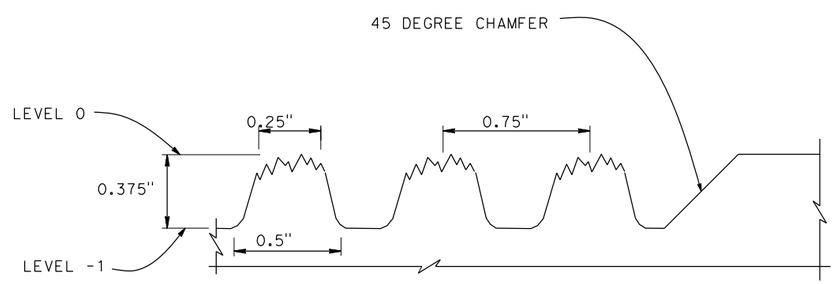


DETAIL B (WAVE)

1"=1'

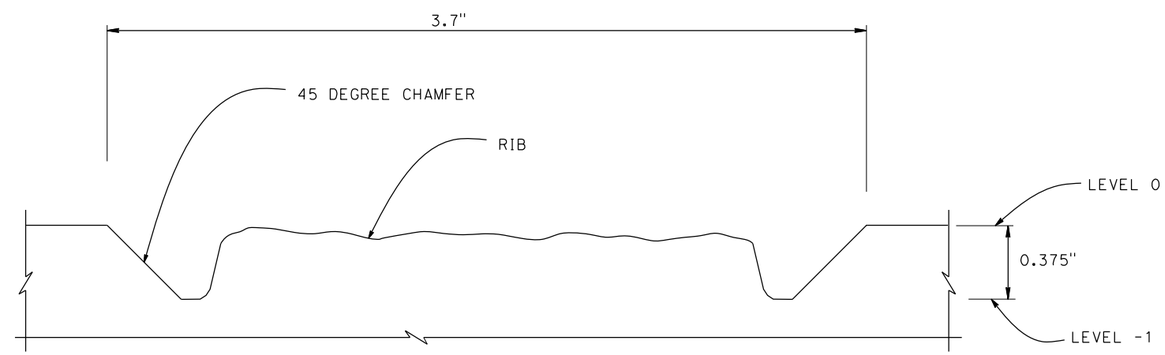
LEGEND

LEVEL 0 = FACE OF BARRIER
LEVEL -1 = LEVEL 0 - 0.375"
LEVEL -2 = FACE OF CORBEL - 0.5"



SECTION B-B

NO SCALE



SECTION A-A

NO SCALE

PEDESTRIAN BARRIER WEST AND EAST SIDE ARCHITECTURAL DETAILS No. 6

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — LEAH C. HAYGOOD No. 1895 — Signature — 8-31-23 Renewal Date — Date — STATE OF CALIFORNIA

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1 HARBOR CENTER # 130,
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

IRRIGATION SPRINKLER SCHEDULE

SYMBOL	ITEM DESCRIPTION	SPRAY PATTERN	RADIUS (2) ft	OPERATING PRESSURE psi	DISCHARGE RATE (+/- 5%) (2) GPM	PRECIPITATION RATE (+/- 5%) INCH/hr	INLET CONNECTION DIAMETER INCH	SWING JOINT TYPE	RISER SPRINKLER ASSEMBLY TYPE	RISER SPRINKLER ASSEMBLY HEIGHT/LENGTH INCH	RISER SPRINKLER ASSEMBLY MATERIAL	POP-UP SPRINKLER ASSEMBLY HEIGHT INCH	POP-UP SPRINKLER ASSEMBLY MATERIAL	REMARKS
●	RISER SPRINKLER ASSEMBLY			30	0.25		1/2		V	(7)	PL			FOR SHRUBS (8)
■	RISER SPRINKLER ASSEMBLY			30	0.5		1/2		V	(7)	PL			FOR TREES (9)
⊕	POP-UP SPRINKLER ASSEMBLY	Q	8-10	30	0.23	1.2	3/4	II				6	PL	
⊖	POP-UP SPRINKLER ASSEMBLY	H	8-10	30	0.51	1.1	3/4	II				6	PL	
◇	POP-UP SPRINKLER ASSEMBLY	Q	6-8	30	0.17	1.1	3/4	II				6	PL	
▽	POP-UP SPRINKLER ASSEMBLY	H	8-10	30	0.23	1.2	3/4	II				12	PL	

NOTES: APPLICABLE WHERE CIRCLED

1 - SEE SPECIAL PROVISIONS.
(2) - IF A PRESSURE COMPENSATING DEVICE IS SPECIFIED, THE DISCHARGE AND RADII SHOWN REFLECT ITS USE.
3 - ARC STOP SHALL BE FITTED WITH A NUT AND BOLT.
4 - BUILT-IN PRESSURE COMPENSATING DEVICE REQUIRED.
5 - SPRINKLER PROTECTOR (TYPE 1) REQUIRED.
6 - UNLESS OTHERWISE SHOWN ON PLANS.
(7) - SEE DETAIL
(8) - INSTALL RISER SPRINKLER ASSEMBLY (TYPE V) ON UPHILL SIDE OF PLANT BASIN.
(9) - INSTALL TWO RISER SPRINKLER ASSEMBLIES FOR EACH TREE (NO. 15 AND 30" BOX SIZES). ONLY ONE SYMBOL IS SHOWN FOR GRAPHIC CLARITY.

PIPE SIZING CHARTS

RISER SPRINKLER ASSEMBLY (TYPE V)

DISCHARGE RATE (0.25 GPM)		
No. BUBBLERS	GPM	PIPE SIZE
1-24	0-6	3/4"
25-48	7-12	1"
49-80	13-20	1 1/4"
81-120	20-30	1 1/2"
121-140	21-35	2"

RISER SPRINKLER ASSEMBLY (TYPE V)

DISCHARGE RATE (0.5 GPM)		
No. BUBBLERS	GPM	PIPE SIZE
1-12	0-6	3/4"
13-24	7-12	1"
25-40	13-20	1 1/4"
41-60	21-30	1 1/2"

NOTES:

1. PLASTIC PIPE SUPPLY LINE FOR RISER SPRINKLER ASSEMBLIES (TYPE V) MUST BE SIZED IN ACCORDANCE WITH PIPE SIZING CHART, UNLESS OTHERWISE NOTED.
2. UNLABELED PIPE SUPPLY LINE (LATERAL) FOR POP-UP SPRINKLER ASSEMBLIES MUST BE 3/4" PVC (SCH 40), UNLESS OTHERWISE SHOWN.

APPROVED FOR IRRIGATION WORK ONLY

SPRINKLER SCHEDULE

NO SCALE

ISS-1

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BEN RAZEGHI

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04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT LEAH C. HAYGOOD No. 1895 STATE OF CALIFORNIA Signature 8-31-23 Renewal Date Date

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PRELIMINARY PLANS SUBJECT TO REVISION

NOTE:

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

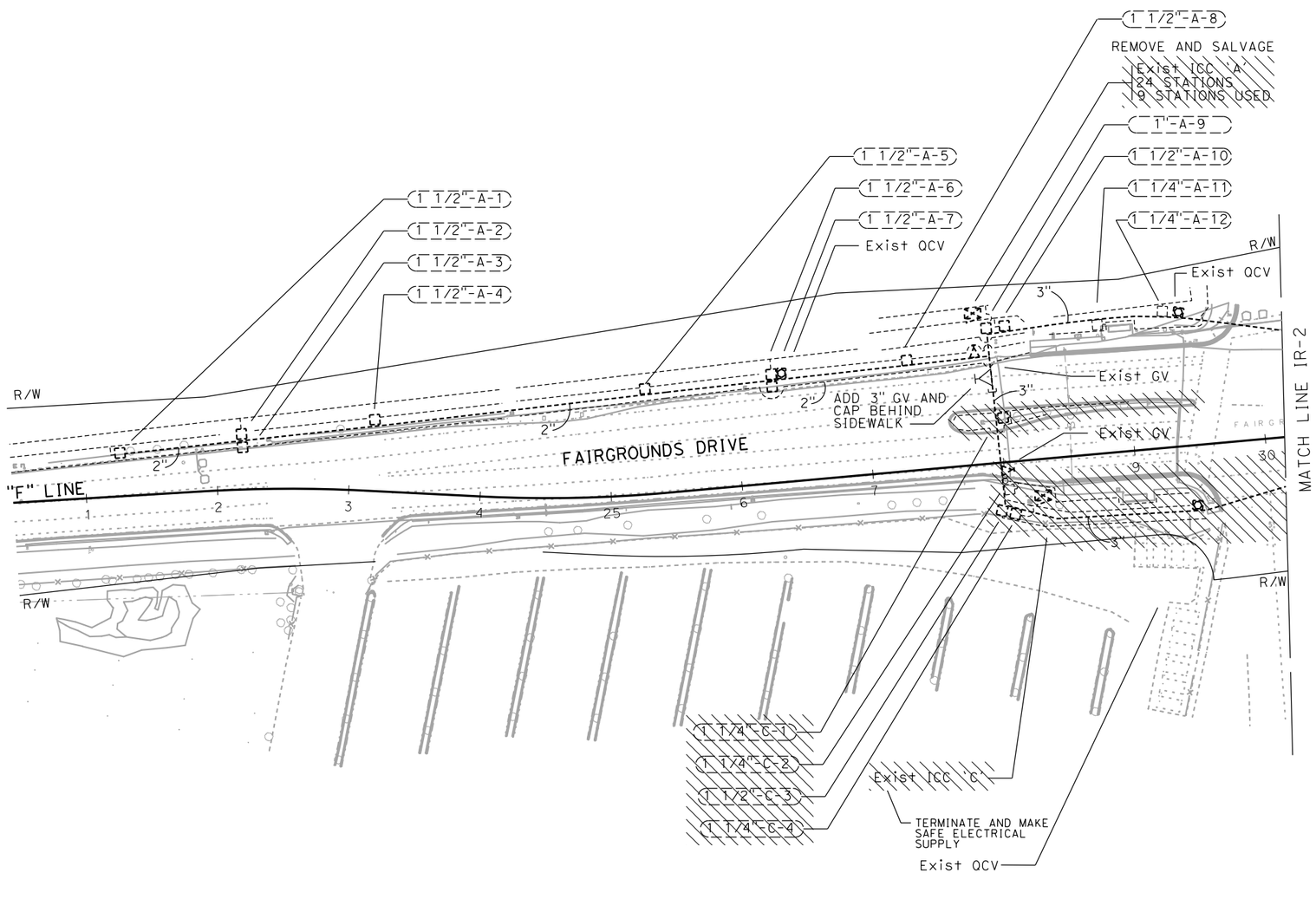
IRRIGATION REMOVAL NOTES:

1. FIELD VERIFY EXISTING IRRIGATION LOCATION
2. LOCATE AND CAP EXISTING LATERAL OR IRRIGATION SUPPLY LINE AS SHOWN.

LEGEND:

EXISTING IRRIGATION TO BE REMOVED

SIX FLAGS DISCOVERY KINGDOM



IRRIGATION REMOVAL PLAN

SCALE: 1' = 50'

IR-1

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

REVISED BY	DATE REVISED
SCK	6-2-21

SIMON KENNEY — LEAH HAYGOOD

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT LEAH G. HAYGOOD No. 6353 Signature 8-31-23 Renewal Date Date STATE OF CALIFORNIA

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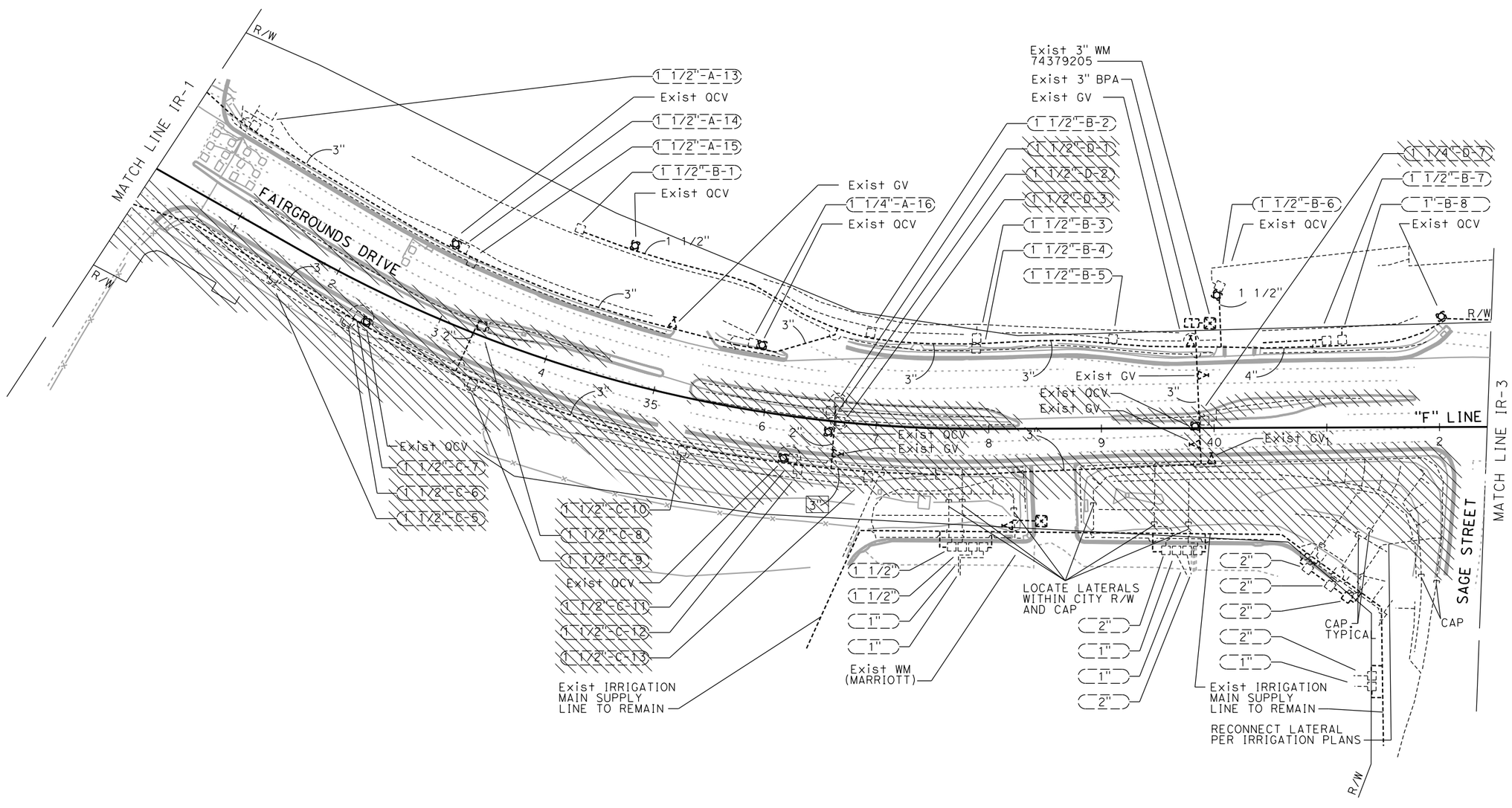
SIX FLAGS DISCOVERY KINGDOM



IRRIGATION REMOVAL PLAN

SCALE: 1' = 50'

IR-2

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

REVISED BY	DATE REVISED
SCK	6-2-21

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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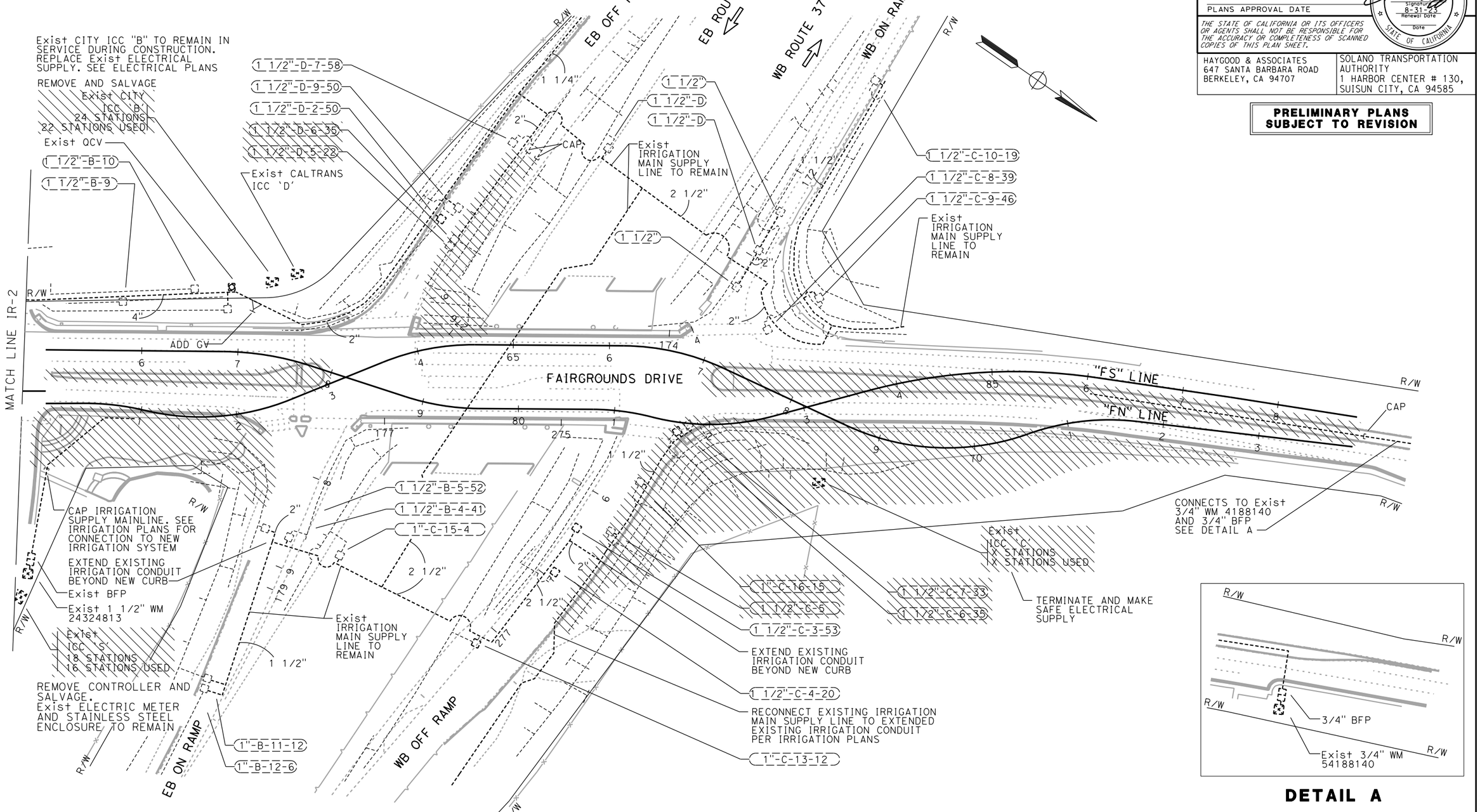

DETAIL A

IRRIGATION REMOVAL PLAN

SCALE: 1' = 50'

IR-3

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BORDER LAST REVISED 7/2/2010 | USERNAME => Simon | DGN FILE => 0400020584 sn003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0738 | PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
LEAH C. HAYGOOD NO. 1895
Signature
8-31-23
Renewal Date
Date
STATE OF CALIFORNIA

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PRELIMINARY PLANS SUBJECT TO REVISION

NOTE:

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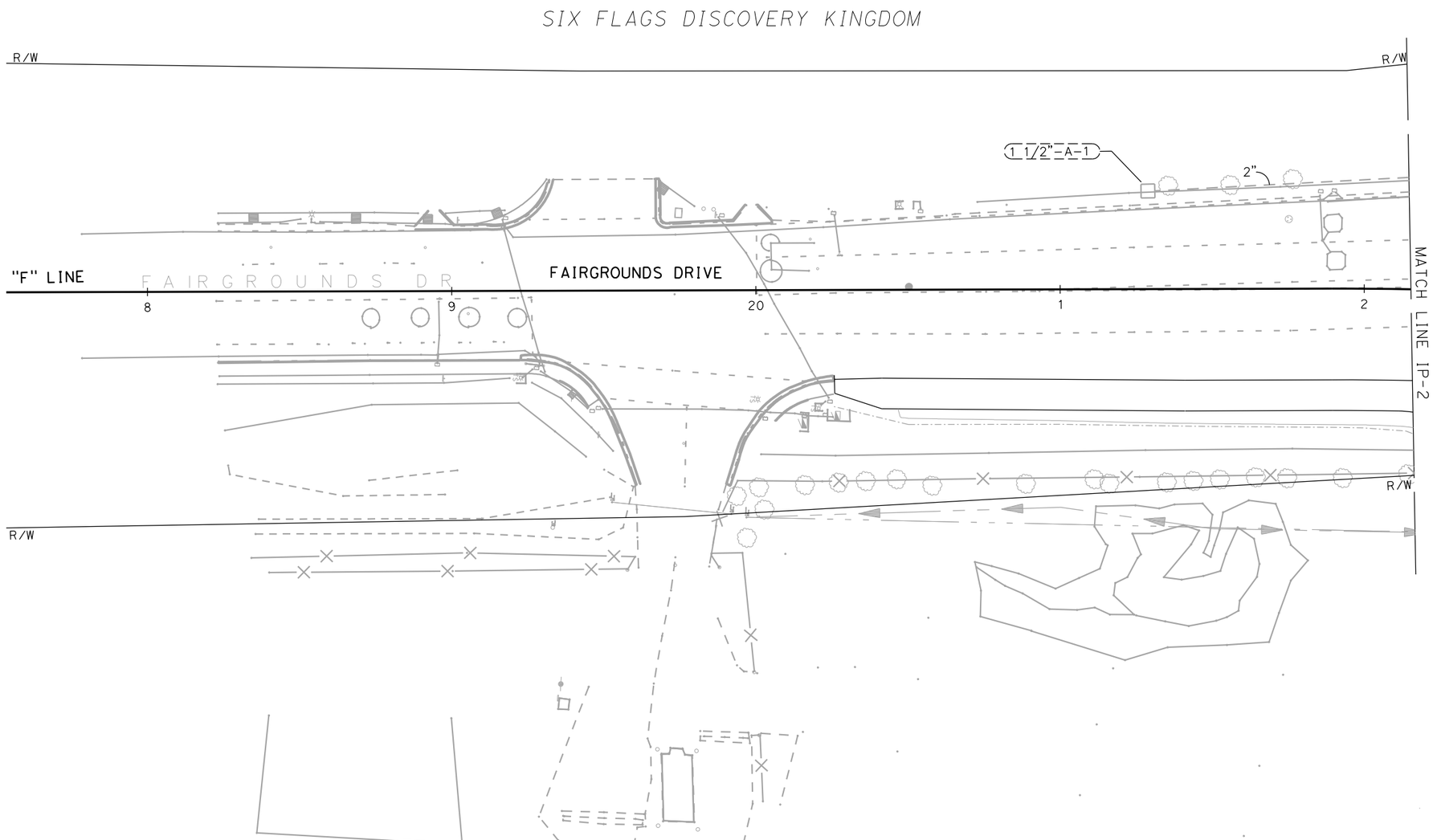
IRRIGATION NOTES:

CITY OF VALLEJO MWELO STATEMENT OF COMPLIENCE:
I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN



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IRRIGATION PLAN

SCALE: 1' = 20'

IP-1

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BORDER LAST REVISED 7/2/2010 | USERNAME => Simon | DGN FILE => 0400020584 sp001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0738 | PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — LEAH C. HAYGOOD NO. 1895 — Signature — 8-31-23 Renewal Date — Date — STATE OF CALIFORNIA

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NOTE:
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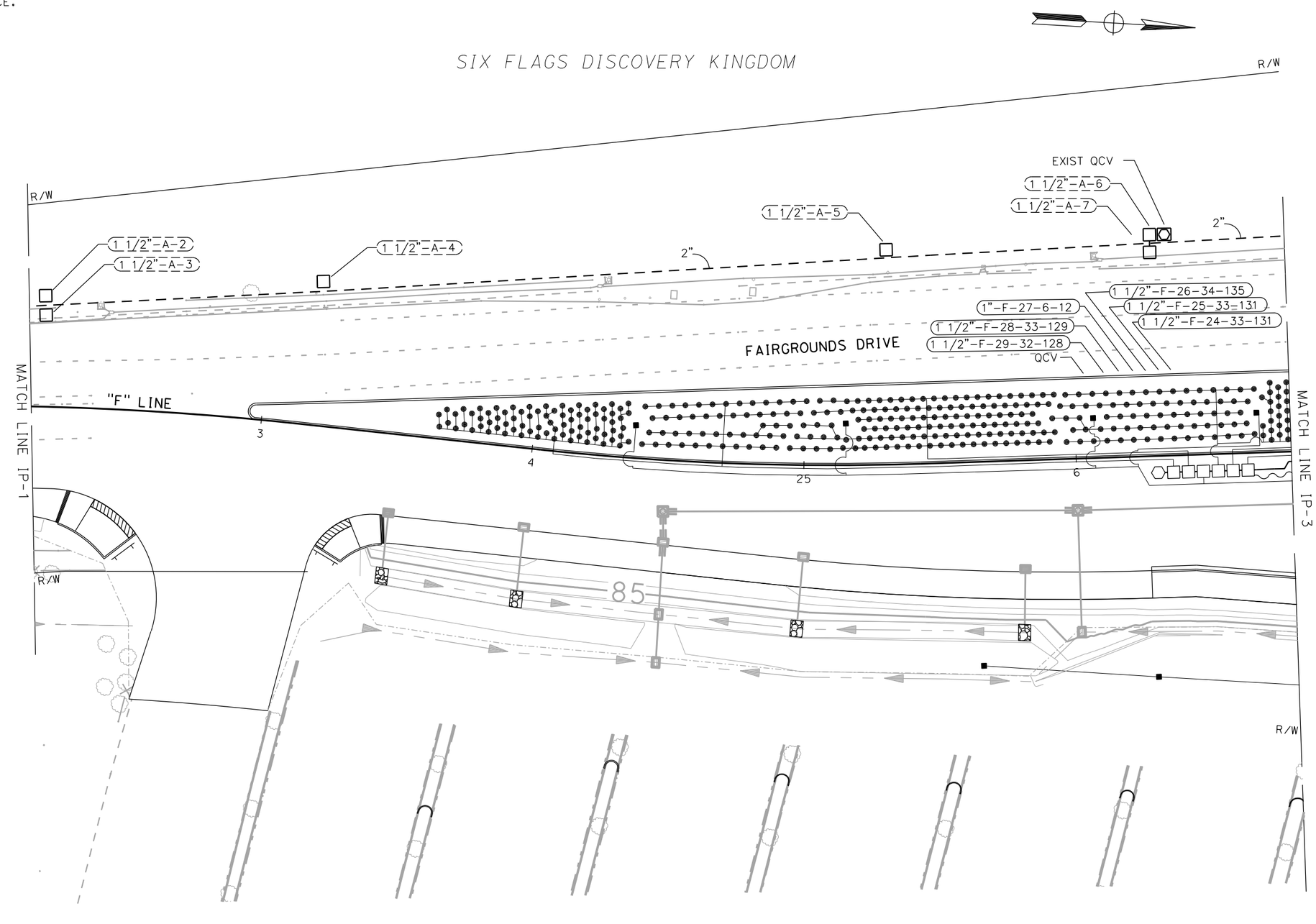

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IRRIGATION PLAN

SCALE: 1' = 20'

IP-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

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PRELIMINARY PLANS SUBJECT TO REVISION

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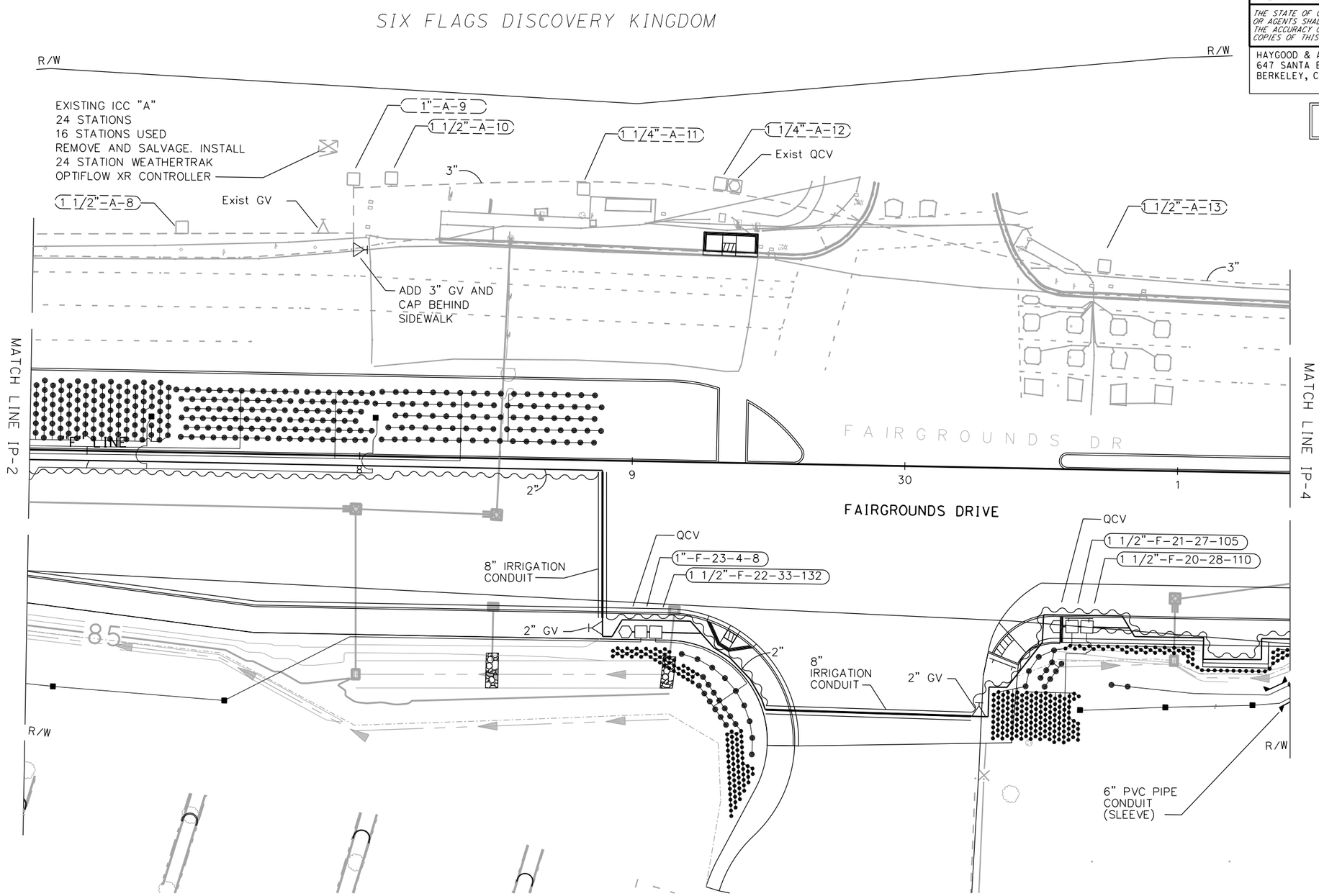

IRRIGATION PLAN

SCALE: 1' = 20'

IP-3

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

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PRELIMINARY PLANS SUBJECT TO REVISION

NOTE:
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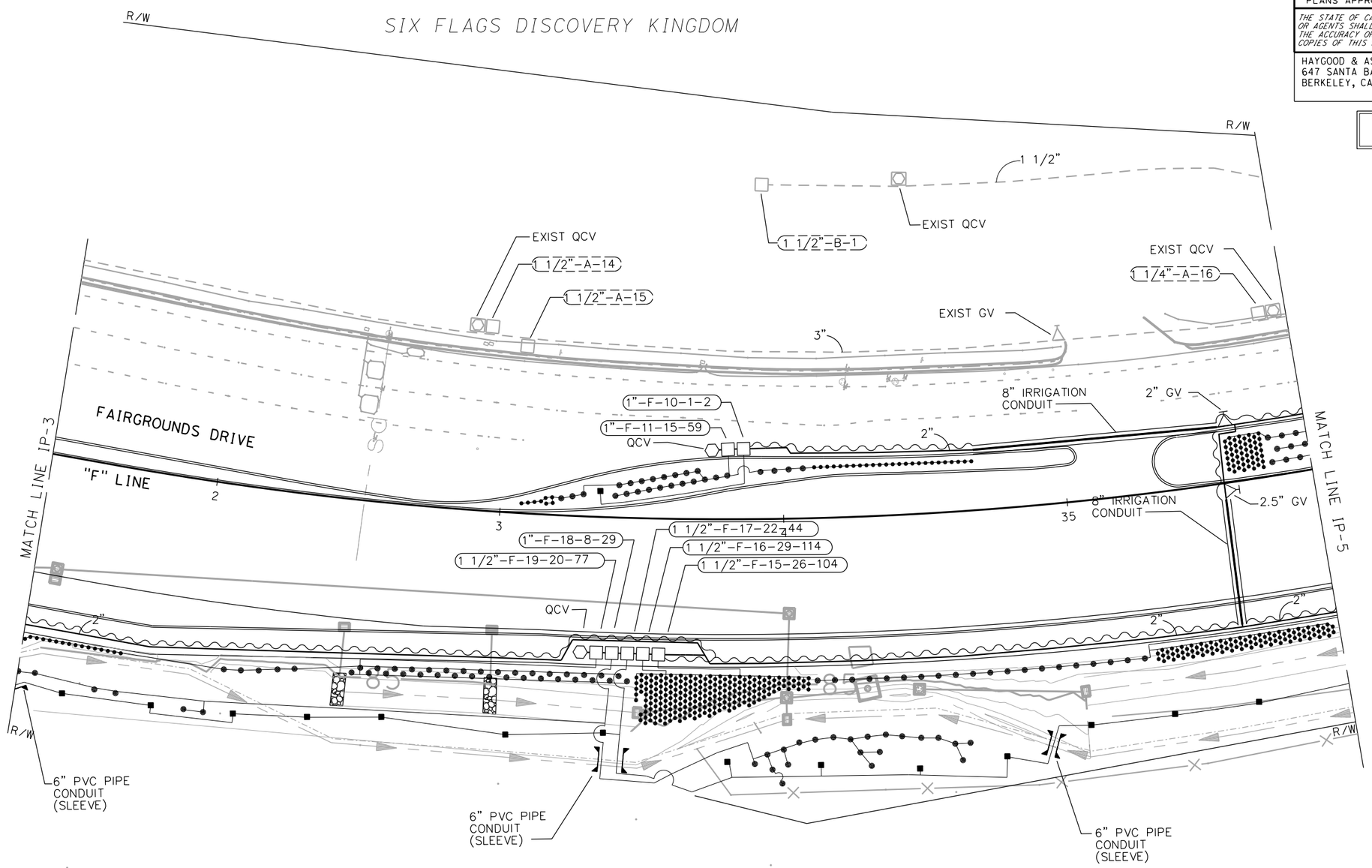

IRRIGATION PLAN

SCALE: 1' = 20'

IP-4

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CALCULATED-DESIGNED BY: LANCE BLANCHARD

CHECKED BY: CHRIS MITCHELL

REVISED BY

DATE REVISED

$FREQUEST

LAST REVISION 00-00-00

DATE PLOTTED => 2/22/2022
TIME PLOTTED => 2:41:41 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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PRELIMINARY PLANS SUBJECT TO REVISION

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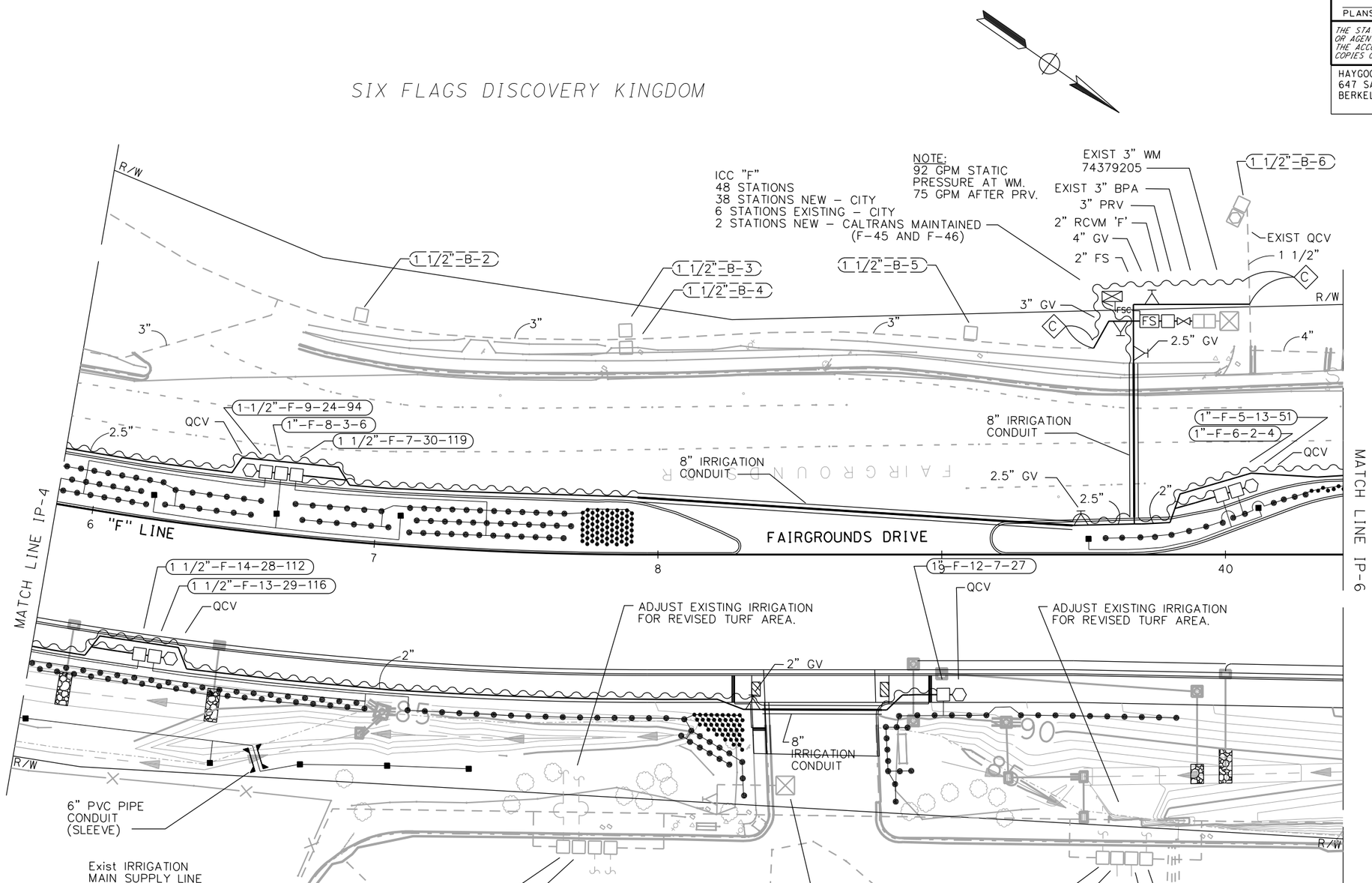

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN

SCALE: 1' = 20'

IP-5

REVISED BY	DATE REVISED
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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PRELIMINARY PLANS SUBJECT TO REVISION

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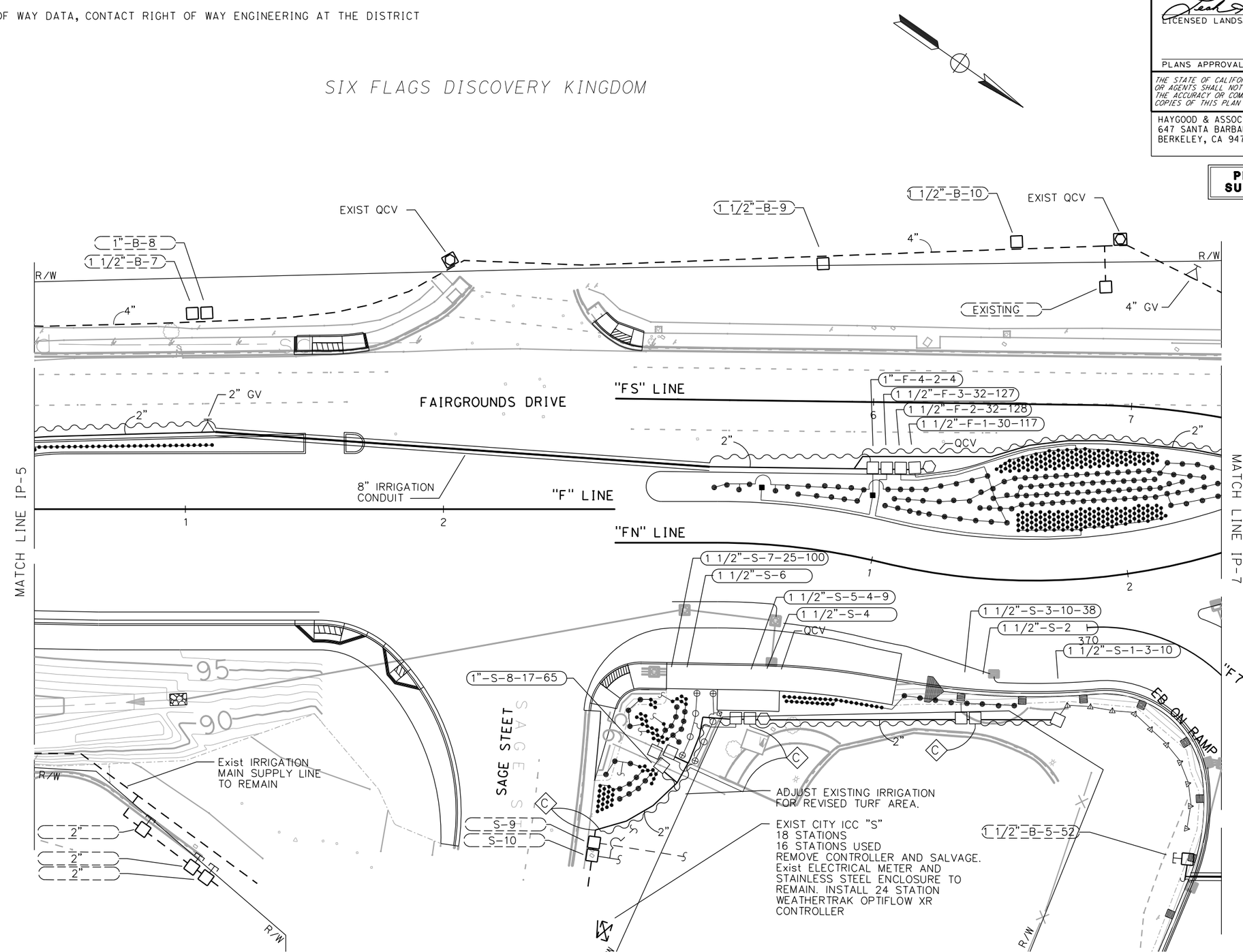

IRRIGATION PLAN

SCALE: 1' = 20'

IP-6

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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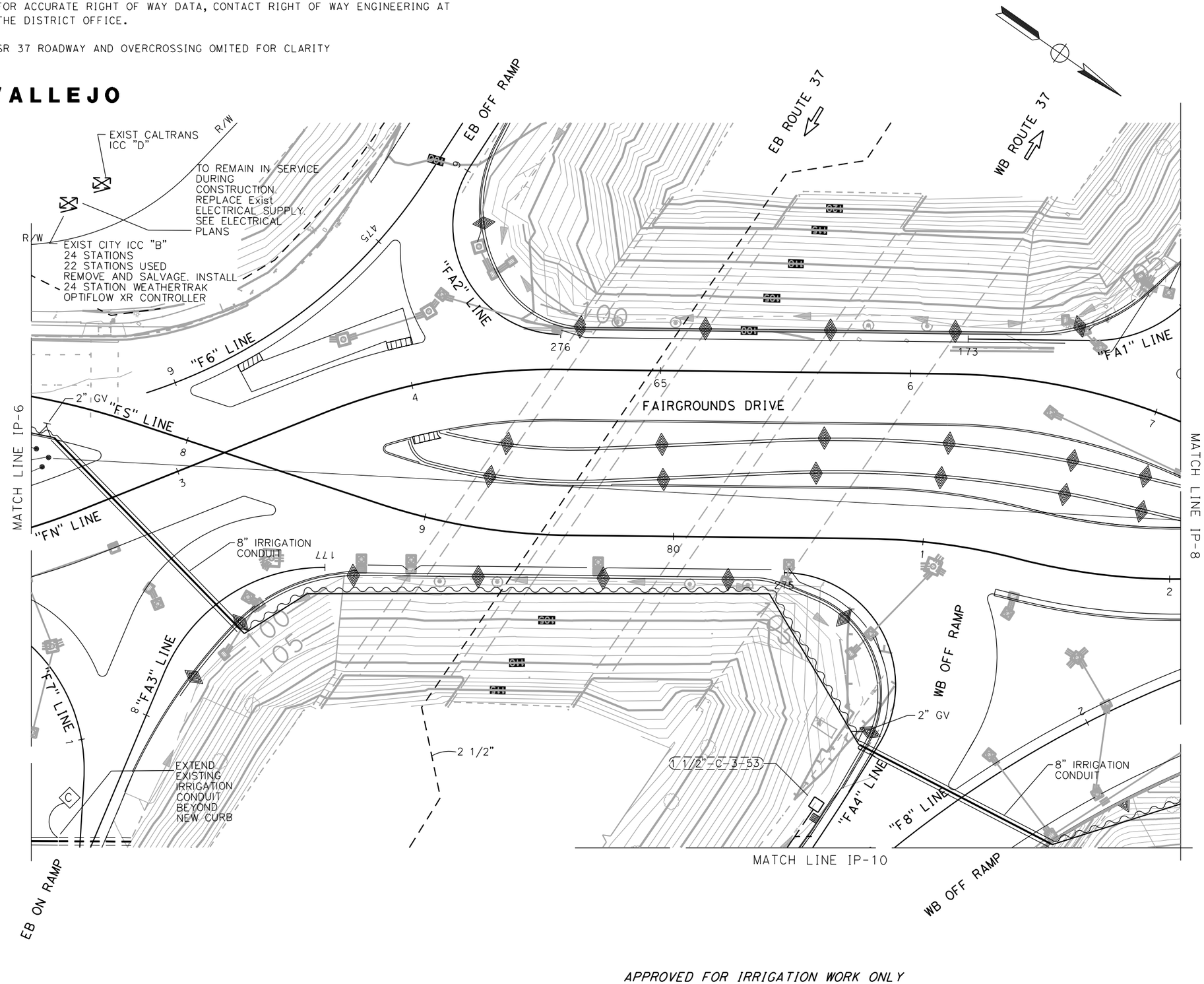
PRELIMINARY PLANS SUBJECT TO REVISION

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SR 37 ROADWAY AND OVERCROSSING OMITED FOR CLARITY

VALLEJO



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IRRIGATION PLAN

SCALE: 1' = 20'

IP-7

REVISED BY | DATE REVISED

LANCE BLANCHARD | CHRIS MITCHELL

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: BEN RAZEGHI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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BORDER LAST REVISED 7/2/2010 | USERNAME => Simon | DGN FILE => 0400020584 sp007 .dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0738 | PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT LEAH C. HAYGOOD No. 1895 STATE OF CALIFORNIA
Signature
8-31-23
Renewal Date
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.

HAYGOOD & ASSOCIATES
647 SANTA BARBARA ROAD
BERKELEY, CA 94707

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER # 130,
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

NOTE:
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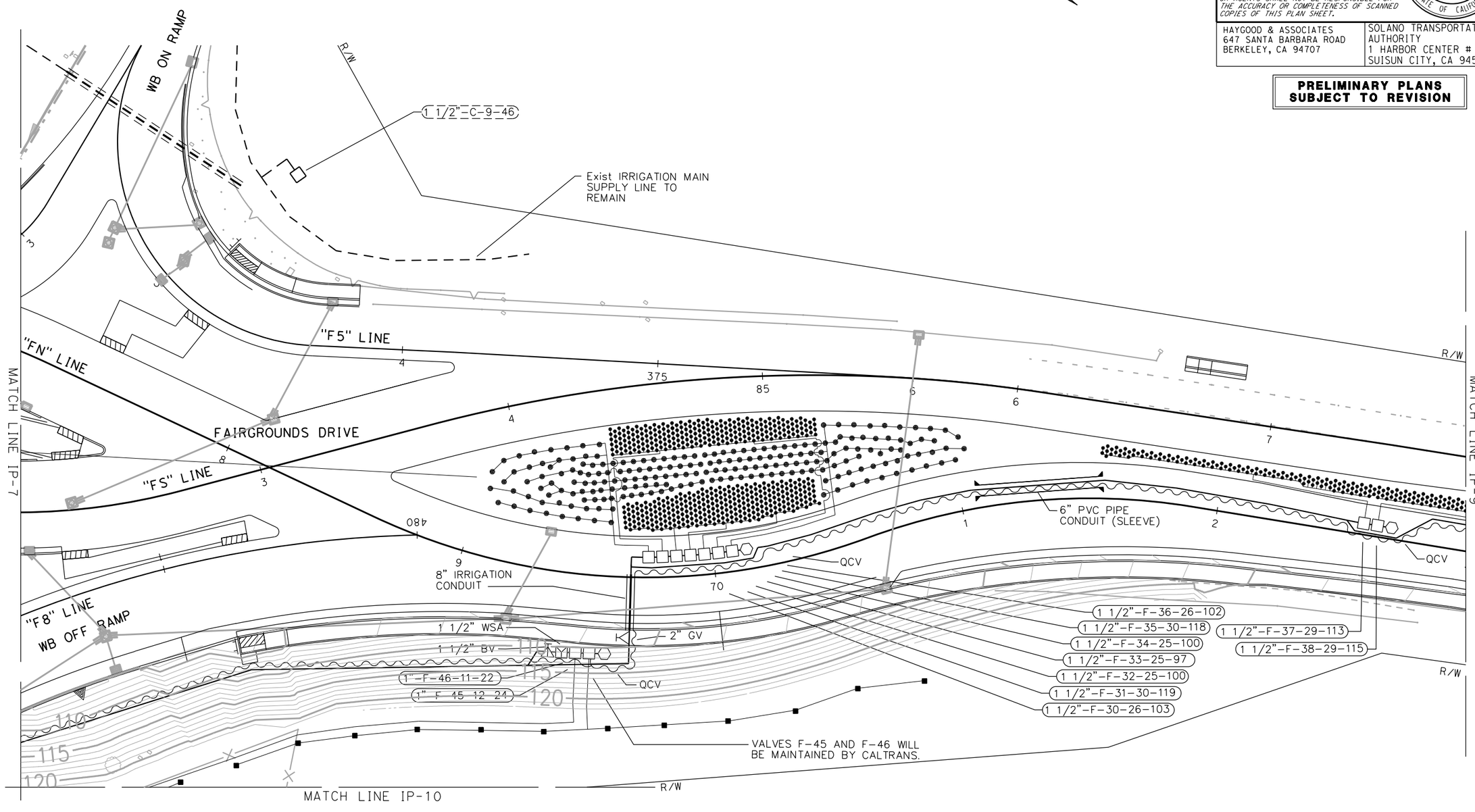

IRRIGATION PLAN

SCALE: 1' = 20'

IP-8

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT LEAH C. HAYGOOD No. 1895 Signature 8-31-23 Renewal Date Date STATE OF CALIFORNIA

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PRELIMINARY PLANS SUBJECT TO REVISION

NOTE:
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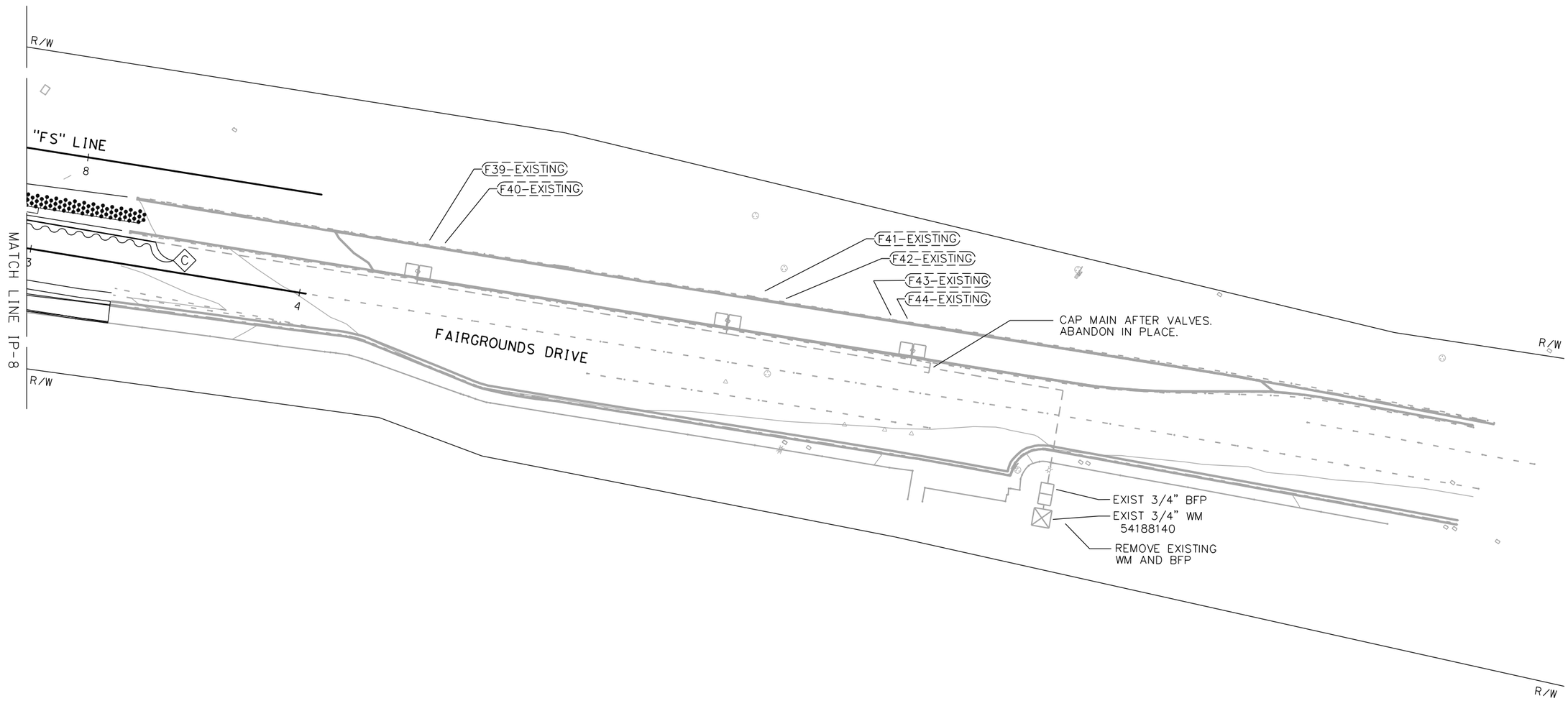

IRRIGATION PLAN

SCALE: 1' = 20'

IP-9

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
LEAH HAYGOOD No. 1895
Signature
8-31-23
Renewal Date
Date
STATE OF CALIFORNIA

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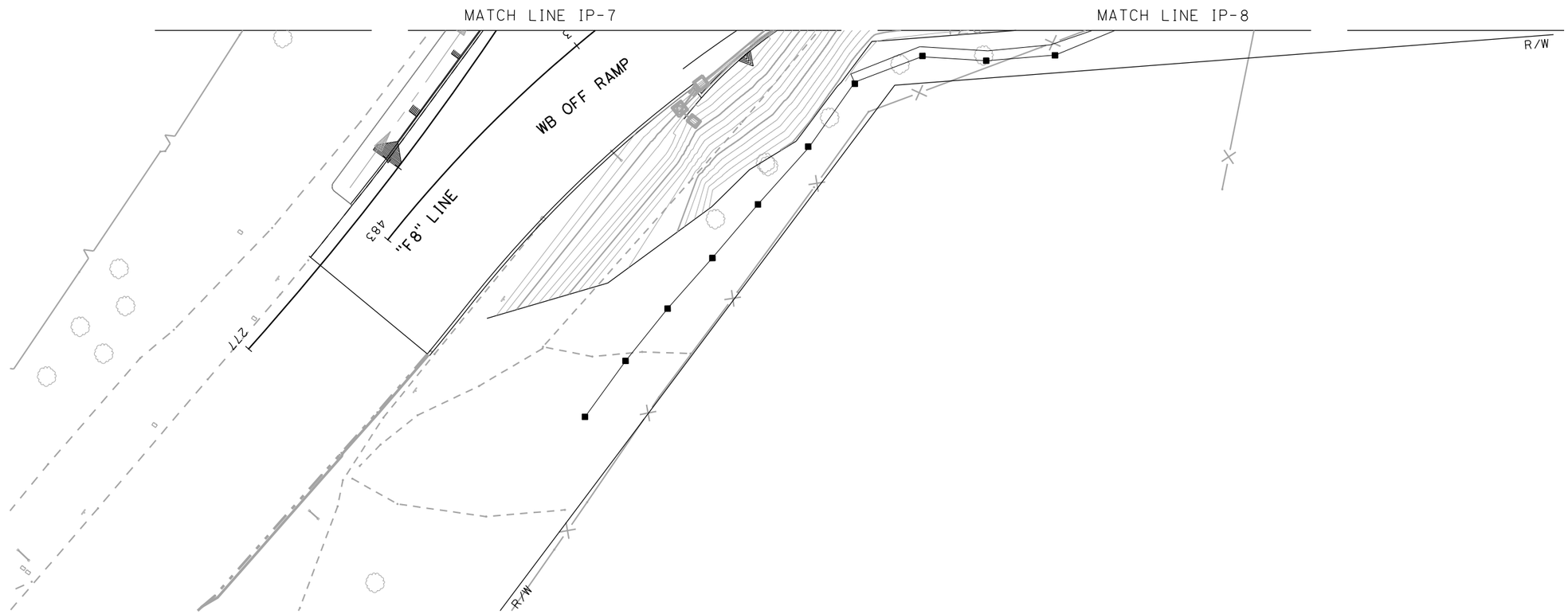

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IRRIGATION PLAN
SCALE: 1' = 20'
IP-10

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04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

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LICENSED LANDSCAPE ARCHITECT LEAH C. HAYGOOD No. 1895 STATE OF CALIFORNIA
Signature
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SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER # 130,
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

IRRIGATION QUANTITY (LATERAL SUPPLY SIDE OF CONTROL VALVE)

CONTOLLER LETTER	CONTROL VALVE NUMBER	PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE) 3/4"	1"	1 1/4"	1 1/2"	2"	SPRINKLER ASSEMBLY RISER (TYPE V)
		LF	LF	LF	LF	LF	EA
F	1	240	40	20	80		117
	2	600	40	20	60		128
	3	240	40	20	120		127
	4	80					4
	5	120	80	20			51
	6	80					4
	7	380	20	60	100		119
	8	140					6
	9	300	20	40	100		94
	10	80					2
	11	180	60	20			59
	12	160	20				27
	13	400	20	140	100		116
	14	300	40	40	140		112
	15	220	20	20	60		104
	16	240	20	20	20		114
	17	400	360	80	40		44
	18	520	60				29
	19	260	140	120			77
	20	240	20	20	40		110
	21	220	40	40	20		105
	22	280	40	40	20	60	132
	23	380					8
	24	560	40	20	60	140	131
	25	480	20	20	60	80	131
	26	580	40	20	40	20	135
	27	440	140				12
	28	520	20	20	20	120	129
	29	540	60	100	200		128
	30	500	40	40	60		103
	31	260	40	20	20	100	119
	32	200	20	20	20		100
	33	200	20	20	40		97
	34	200	20	20	60		100
	35	260	40	20	20	120	118
	36	460	20	20	80		102
	37	220	80	40	80		113
	38	220	60	20	60		115
	39 EX						
	40 EX						
	41 EX						
	42 EX						
	43 EX						
	44 EX						
	45 CT	260	40	40			24
	46 CT	240	40	300			22
SUBTOTAL F		12200	1820	1460	1720	640	3368

CONTOLLER LETTER	CONTROL VALVE NUMBER	PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE) 3/4"	1"	1 1/4"	1 1/2"	2"	SPRINKLER ASSEMBLY RISER (TYPE V)	POP-UP
		LF	LF	LF	LF	LF	EA	EA
S	1	100	40					10
	2				60			
	3	60	80	40			38	
	4				60			
	5	80	40					9
	6				100			
	7	220	80	40	60		100	
	8	160	40	60			65	
SUBTOTAL S		620	280	140	280		203	19
SUBTOTAL F		12200	1820	1460	1720	640	3368	
TOTAL		12820	2100	1600	2000	640	3571	19

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION QUANTITIES

NO SCALE

IQ-1

LAST REVISION 00-00-00 | DATE PLOTTED => 2/22/2022 | TIME PLOTTED => 2:41:48 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — LAR CA HAYGOOD NO. 1895 — Signature — 8-31-23 Renewal Date — Date — STATE OF CALIFORNIA

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HAYGOOD & ASSOCIATES
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BERKELEY, CA 94707

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER # 130,
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

IRRIGATION QUANTITY (MAIN SUPPLY SIDE OF CONTROL VALVE)

SHEET No.	IRRIGATION CONTROLLER					VALVE										(SUPPLY LINE)	
	24-32 STATION IRRIGATION CONTROLLER (PEDESTAL MOUNTED)	24-32 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	48 STATION IRRIGATION CONTROLLER (PEDESTAL MOUNTED)	FLOW SENSOR	WYE STRAINER ASSEMBLY	REMOTE CONTROL VALVE		REMOTE CONTROL VALVE (MASTER)	BALL	GATE				QUICK COUPLING	PRESSURE REGULATING VALVE	PLASTIC PIPE (CL 315)	
				2"	1 1/2"	1"	1 1/2"	2"	1 1/2"	2"	2 1/2"	3"	4"	3/4"	3"	2"	2 1/2"
	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF
IP-1																	
IP-2						1	5							1		80	
IP-3	1					1	3			2		1		2		680	
IP-4						3	4			1	1			2		740	140
IP-5			1	1		4	4	1		1	2	1	1	4	1	520	560
IP-6		1				2	10			1			1	2		760	
IP-7	1									2						600	
IP-8					1	2	9		1	1				3		780	
IP-9																100	
IP-10																	
TOTAL	2	1	1	1	1	13	35	1	1	8	3	2	2	14	1	4260	700

IRRIGATION CONDUIT

SHEET No.	LOCATION	PVC PIPE CONDUIT (SCHEDULE 40) (SLEEVE) 6"	REMARKS
		LF	
IP-3	"F" LINE 31+40 81.5 RIGHT	20	
IP-4	"F" LINE 34+88 84.5 RIGHT	120	
IP-5	"F" LINE 38+58 55.0 RIGHT	40	
IP-8	"FN" LINE 71+30 23.0 LEFT	120	
	TOTAL	300	

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION QUANTITIES

NO SCALE

IQ-2

REVISED BY | DATE REVISED
LANCE BLANCHARD | CHRIS MITCHELL
CALCULATED-DESIGNED BY | CHECKED BY
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BEN RAZEGHI

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT LEAH G. HAYGOOD No. 5353 Signature 8-31-23 Renewal Date Date STATE OF CALIFORNIA

HAYGOOD & ASSOCIATES
647 SANTA BARBARA ROAD
BERKELEY, CA 94707

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER # 130,
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

NOTES:

CITY OF VALLEJO MWELO STATEMENTS OF COMPLIENCE:

1. I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN

2. AT THE TIME OF FINAL INSPECTION, THE PERMIT APPLICANT MUST PROVIDE THE OWNER OF THE PROPERTY WITH A CERTIFICATE OF COMPLETION, CERTIFICATE OF INSTALLATION, IRRIGATION SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE.

PLANT LEGEND

PLANT GROUP (SIZE)	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	HOLE SIZE DIAMETER INCH	HOLE SIZE DEPTH INCH	BASIN TYPE	WOOD MULCH BASIN CF	APPLICATION RATES ① SOIL AMENDMENT ④ CF	APPLICATION RATES ① ORGANIC FERTILIZER PLT ESTB oz	APPLICATION RATES ① PACKET FERTILIZER EA	ON CENTER SPACING ft	MINIMUM PLANTING DISTANCE FROM: ETW ft	EP ft	FENCE ft	WALL ft	PAVED DITCH ft	EARTH DITCH ft	REMARKS
A (No. 1)	1		BACCHARIS PILULARIS 'PIGEON POINT'	COYOTE BUSH	12	18	II	1.0	1.0	1.0	1	3.5	2	2	3.5	3.5	3.5	3.5	SHRUB
	2		CALLISTEMON VIMINALIS 'BETTER JOHN'	BETTER JOHN DWARF BOTTLEBRUSH	12	18	II	1.0	1.0	1.0	1	2	2	2	2	2	2	2	SHRUB
	3		JUNIPERUS X PFITZERIANA 'MONSAN'	SEA OF GOLD JUNIPER	12	18	II	1.0	1.0	1.0	1	4	2.5	2.5	6	6	6	4	SHRUB
	4		JUNIPERUS PROCUMBENS 'NANA'	DWARF JAPANESE JUNIPER	12	18	II	1.0	1.0	1.0	1	5.5	3	3	5.5	5.5	5.5	5.5	SHRUB
	5		LOBELIA LAXIFLORA ANGUSTIFOLIA	MEXICAN LOBELIA	12	18	II	1.0	1.0	1.0	1	5	3	3	5	5	5	5	SHRUB
	6		STYLOPHYLLUM VIRENS	DUDLEYA	12	18	II	1.0	1.0	1.0	1	1	2	2	1	1	1	1	SHRUB
	7		PITTOSPORUM TOBIRA	MOCK ORANGE	12	18	II	1.0	1.0	1.0	1	6	15	15	10	6	6	8	SHRUB
T (TURF)	8		SOD	FESCUE (TURF)					6 CY PER 1000 SQFT	6 LBS PER 1000 SQFT									SOD
	9		RED FESCUE	NO MOW RED FESCUE					6 CY PER 1000 SQFT	6 LBS PER 1000 SQFT									SOD
U (No. 15)	10		ACER RUBRUM 'ARMSTRONG'	ARMSTRONG RED MAPLE	36	36	II	3.0	3.0	2.0	2	30	20	20	15	15	10	10	TREE ②
	11		LAURUS 'SARATOGA'	SARATOGA LAUREL	36	36	II	3.0	3.0	2.0	2	20	10	10	10	10	10	10	TREE ②
	12		QUERCUS LOBATA	VALLEY OAK	36	36	II	3.0	3.0	2.0	2	30	20	20	15	15	15	15	TREE ②
	13		QUERCUS AGRIFOLIA	COAST LIVE OAK	36	36	II	3.0	3.0	2.0	2	30	8	8	10	15	15	10	TREE ②
	14		QUERCUS SHUMARDII	SHUMARD OAK	36	36	II	3.0	3.0	2.0	2	30	6	6	10	15	15	10	TREE ②
K (24" BOX)	15		CEDRUS DEODARA	DEODAR CEDAR	48	36	II	4.0	4.0	2.0	2	15	40	30	10	10	30	32	TREE ②

UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATION USED ON PLANTING PLAN.

NOTES: APPLICABLE WHERE CIRCLED

① QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SQYD APPLICATION RATES

② STAKE TREE

3 FOLIAGE PROTECTOR REQUIRED

④ USE COMPOST SOIL AMENDMENT

LEGEND:

ROADSIDE CLEARING WORK LIMITS

PLANT ESTABLISHMENT WORK LIMITS.

WOOD MULCH (WOOD CHIP) 3" DEEP WEED GERMINATION CULTIVATION

ROOT CONTROL BARRIERS MUST BE INSTALLED IN LANDSCAPED AREAS 6" BEHIND BACK OF CURB AND BE CENTERED ON THE TREE. THE SYMBOLS ARE SHOWN IN THE ROADWAY FOR CLARITY ONLY.

SWALE

PLANT LEGEND

PL-1

SIMON KENNEY | REVISED BY | SCK
LEAH HAYGOOD | DATE REVISED | 6-2-21
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CONSULTANT FUNCTIONAL SUPERVISOR
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04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT LEAH C. HAYGOOD No. 1895 Signature 8-31-23 Renewal Date Date STATE OF CALIFORNIA

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PRELIMINARY PLANS SUBJECT TO REVISION

NOTE:

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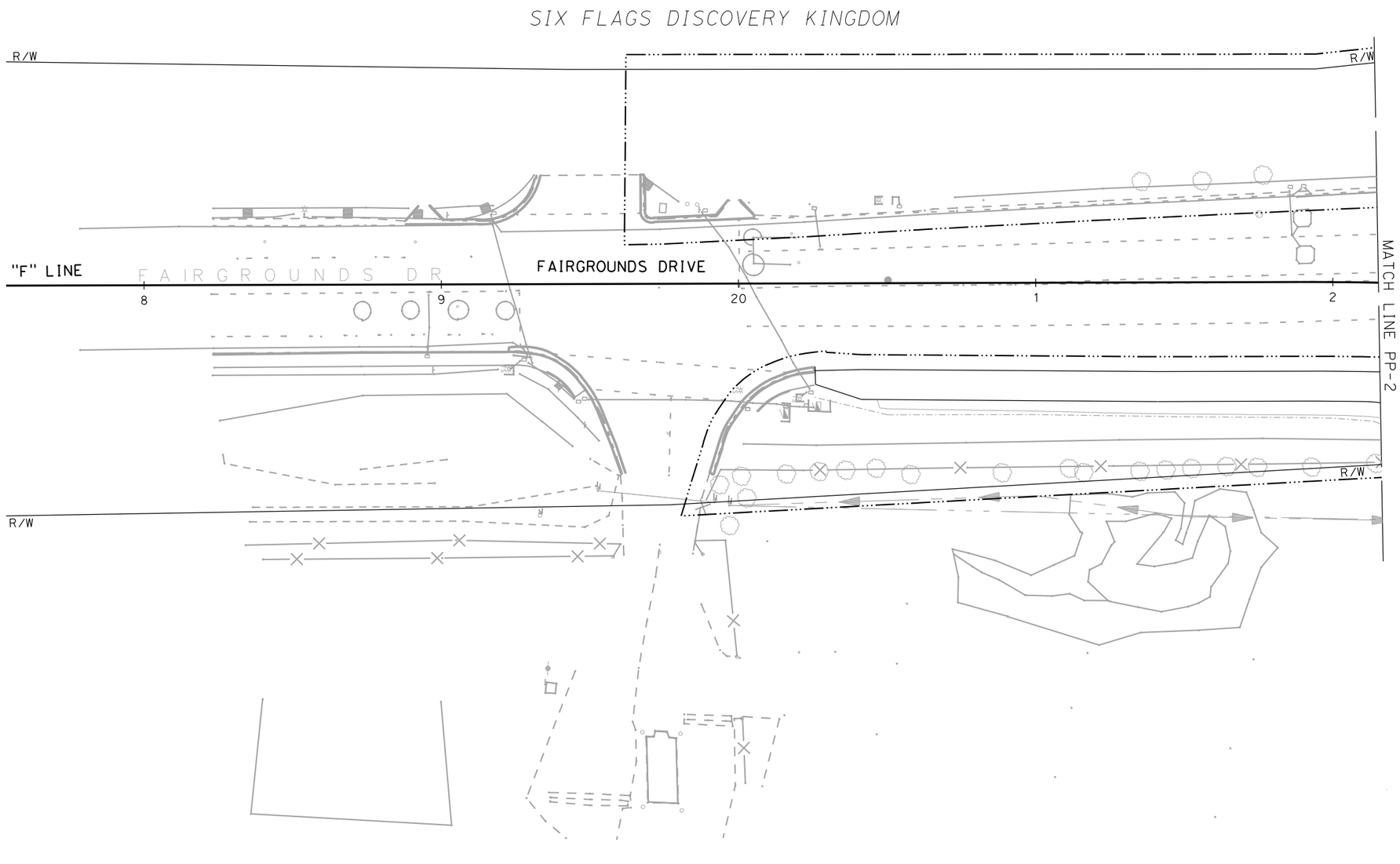
PLANTING ABBREVIATIONS:

WGC - WEED GERMINATION AND CULTIVATION

VALLEJO



APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN

SCALE: 1' = 20'

PP-1

REVISED BY	DATE REVISED
SCK	6-2-21

SIMON KENNEY — LEAH HAYGOOD

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BORDER LAST REVISED 7/2/2010 | USERNAME => Simon DGN FILE => 0400020584 su001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0738 | PROJECT NUMBER & PHASE 04000205841

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LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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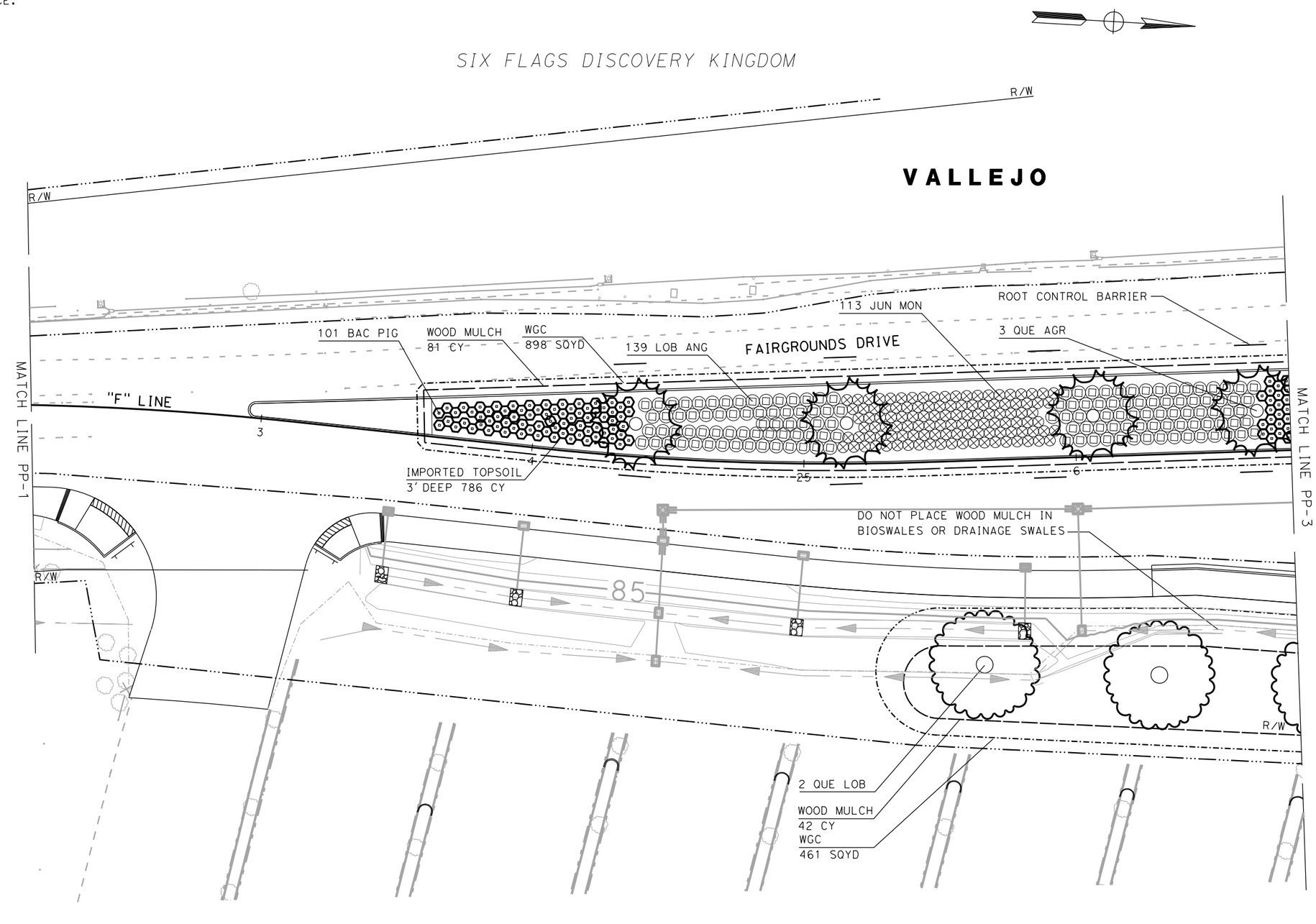

PLANTING PLAN

SCALE: 1' = 20'

PP-2

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SCK	6-2-21

SIMON KENNEY — LEAH HAYGOOD — CALCULATED-DESIGNED BY — CHECKED BY — CONSULTANT FUNCTIONAL SUPERVISOR

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LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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Signature
8-31-23
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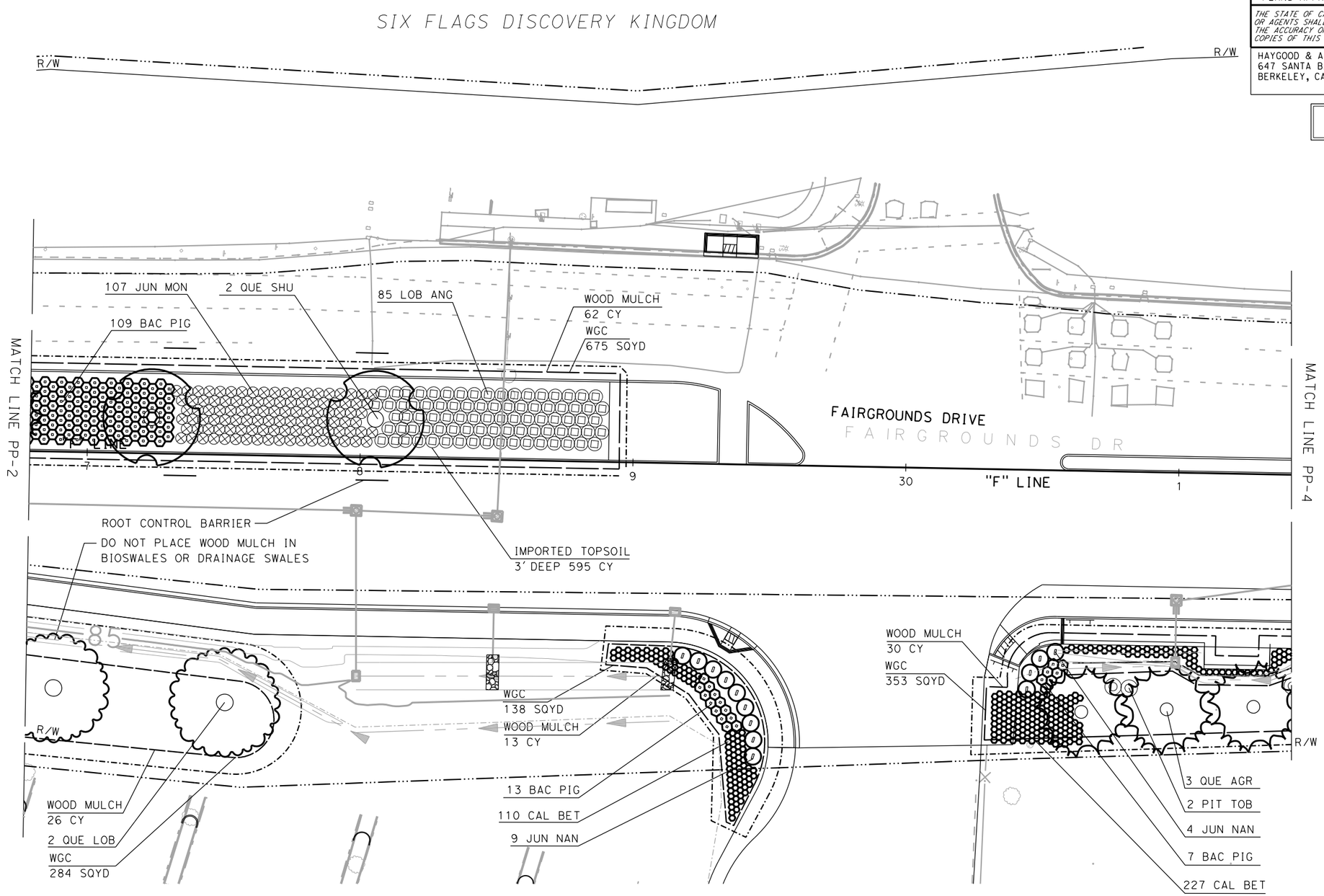
VALLEJO



PLANTING PLAN

SCALE: 1' = 20'

PP-3

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 00-00-00
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TIME PLOTTED => 2:41:52 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT LEAH C. HAYGOOD NO. 1895 STATE OF CALIFORNIA
Signature
8-31-23
Renewal Date
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.

HAYGOOD & ASSOCIATES
647 SANTA BARBARA ROAD
BERKELEY, CA 94707

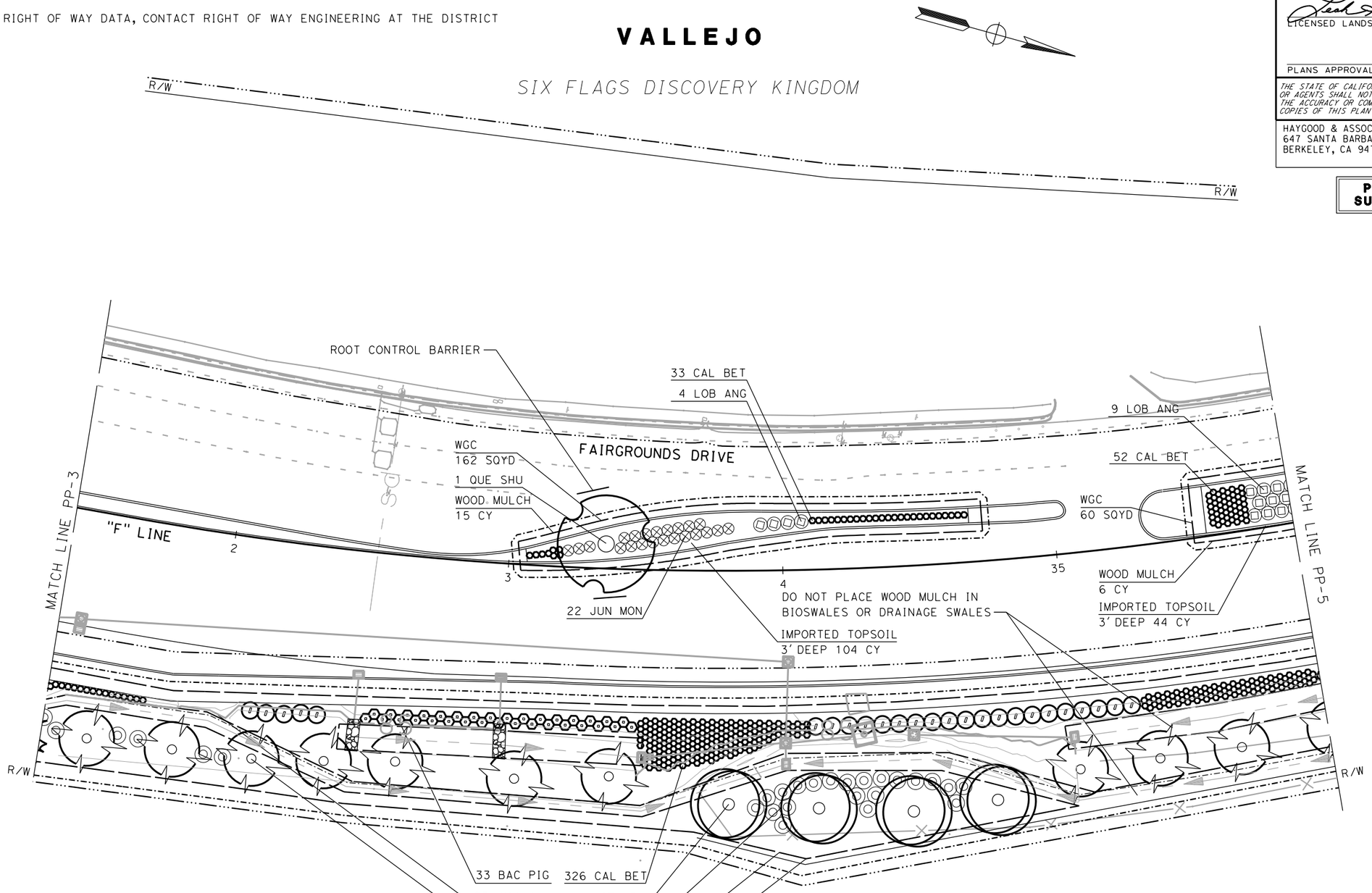
SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER # 130,
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

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

VALLEJO

SIX FLAGS DISCOVERY KINGDOM



APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN

SCALE: 1' = 20'

PP-4

REVISED BY	DATE REVISED
SCK	6-2-21

CALCULATED-DESIGNED BY: SIMON KENNEY
CHECKED BY: LEAH HAYGOOD
CONSULTANT FUNCTIONAL SUPERVISOR

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

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VALLEJO

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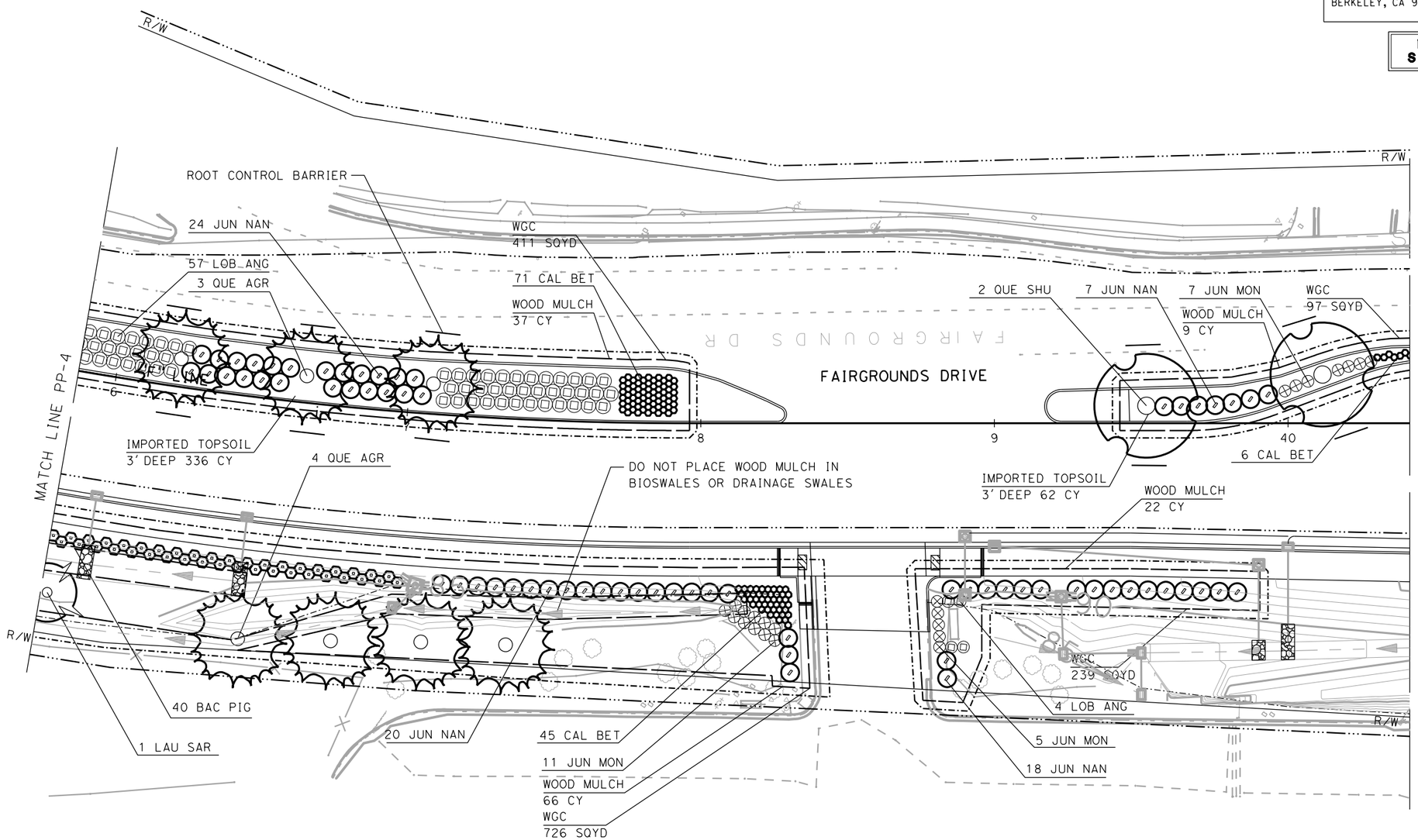

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PLANTING PLAN
SCALE: 1' = 20'
PP-5

REVISED BY	DATE REVISED
SCK	6-2-21

SIMON KENNEY — LEAH HAYGOOD
CALCULATED-DESIGNED BY — CHECKED BY
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT LEAH C. HAYGOOD NO. 1895 STATE OF CALIFORNIA
Signature
8-31-23
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Date

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HAYGOOD & ASSOCIATES
647 SANTA BARBARA ROAD
BERKELEY, CA 94707

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER # 130,
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

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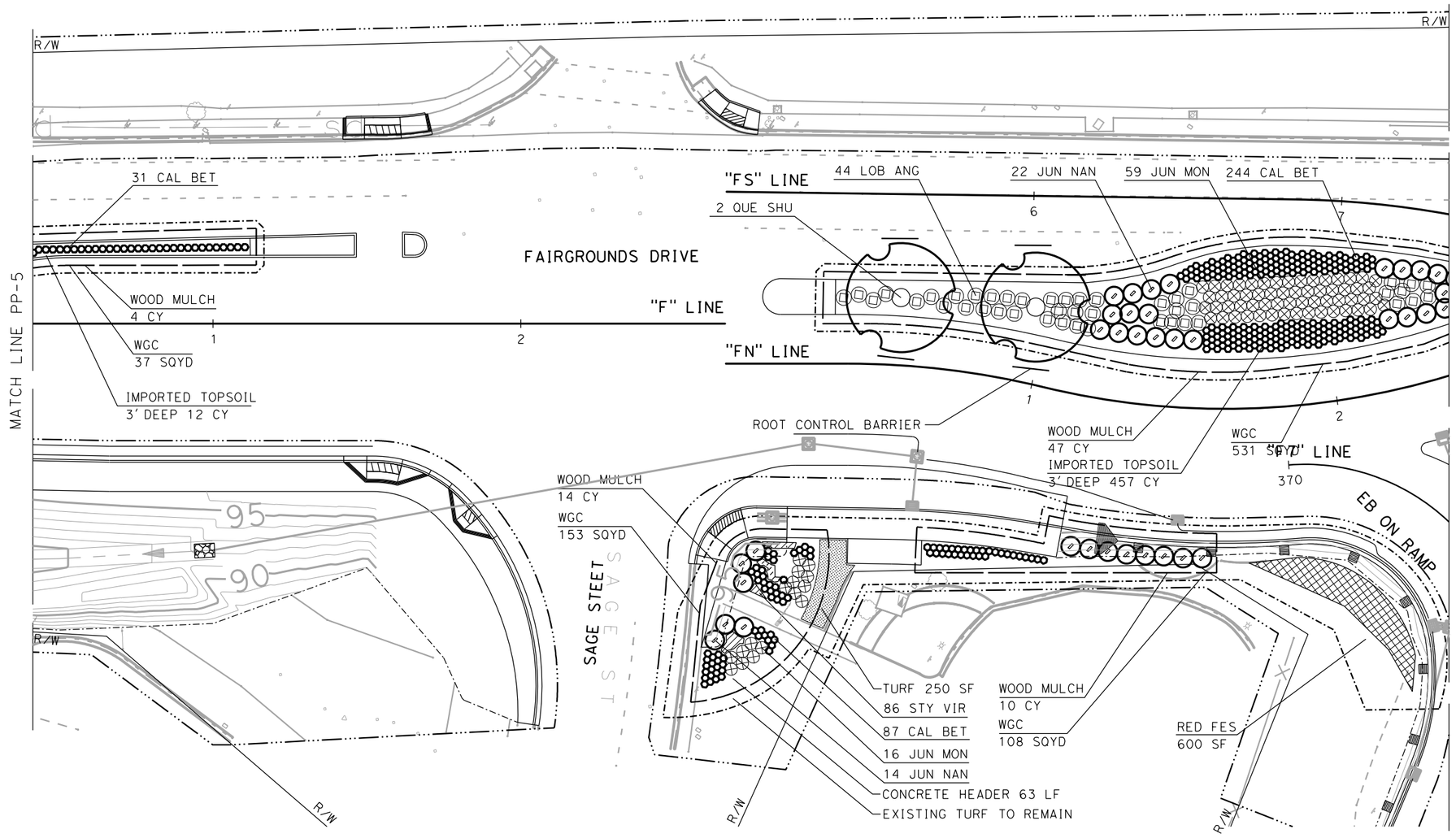
SIX FLAGS DISCOVERY KINGDOM



PLANTING PLAN

SCALE: 1' = 20'

PP-6

APPROVED FOR PLANTING WORK ONLY

SCK	6-2-21
REVISED BY	DATE REVISED
SIMON KENNEY	LEAH HAYGOOD
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CONSULTANT FUNCTIONAL SUPERVISOR	

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT LEAH C. HAYGOOD NO. 1895 STATE OF CALIFORNIA Signature 8-31-23 Renewal Date Date

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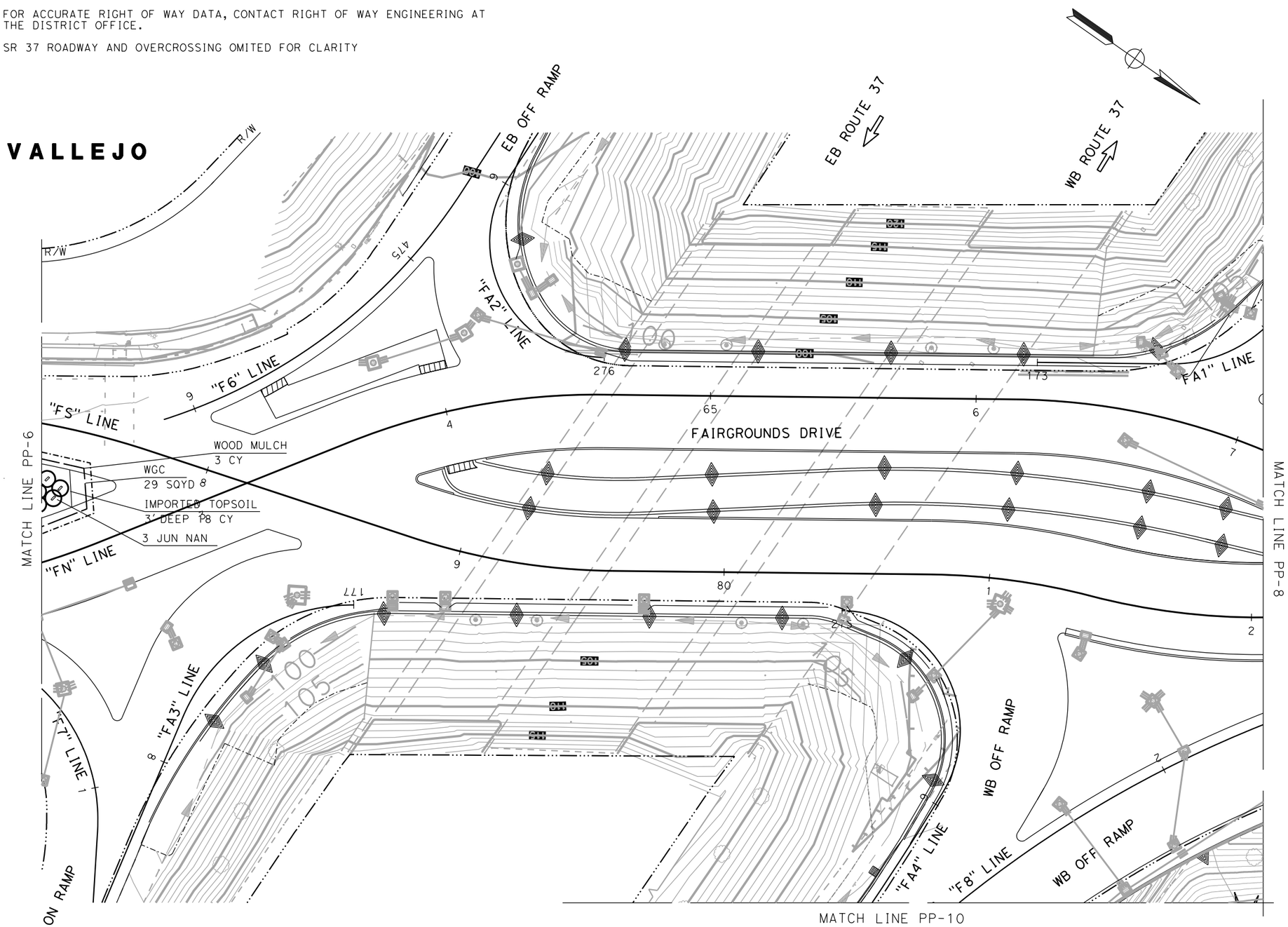
647 SANTA BARBARA ROAD
BERKELEY, CA 94707

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER # 130,
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SR 37 ROADWAY AND OVERCROSSING OMITED FOR CLARITY



PLANTING PLAN

SCALE: 1' = 20'

PP-7

APPROVED FOR PLANTING WORK ONLY

SCK	6-2-21
REVISED BY	DATE REVISED
SIMON KENNEY	LEAH HAYGOOD
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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BORDER LAST REVISED 7/2/2010 | USERNAME => Simon | DGN FILE => 0400020584 su007.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0738 | PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT LEAH C. HAYGOOD No. 1895 STATE OF CALIFORNIA Signature 8-31-23 Renewal Date Date

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647 SANTA BARBARA ROAD
BERKELEY, CA 94707

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER # 130,
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

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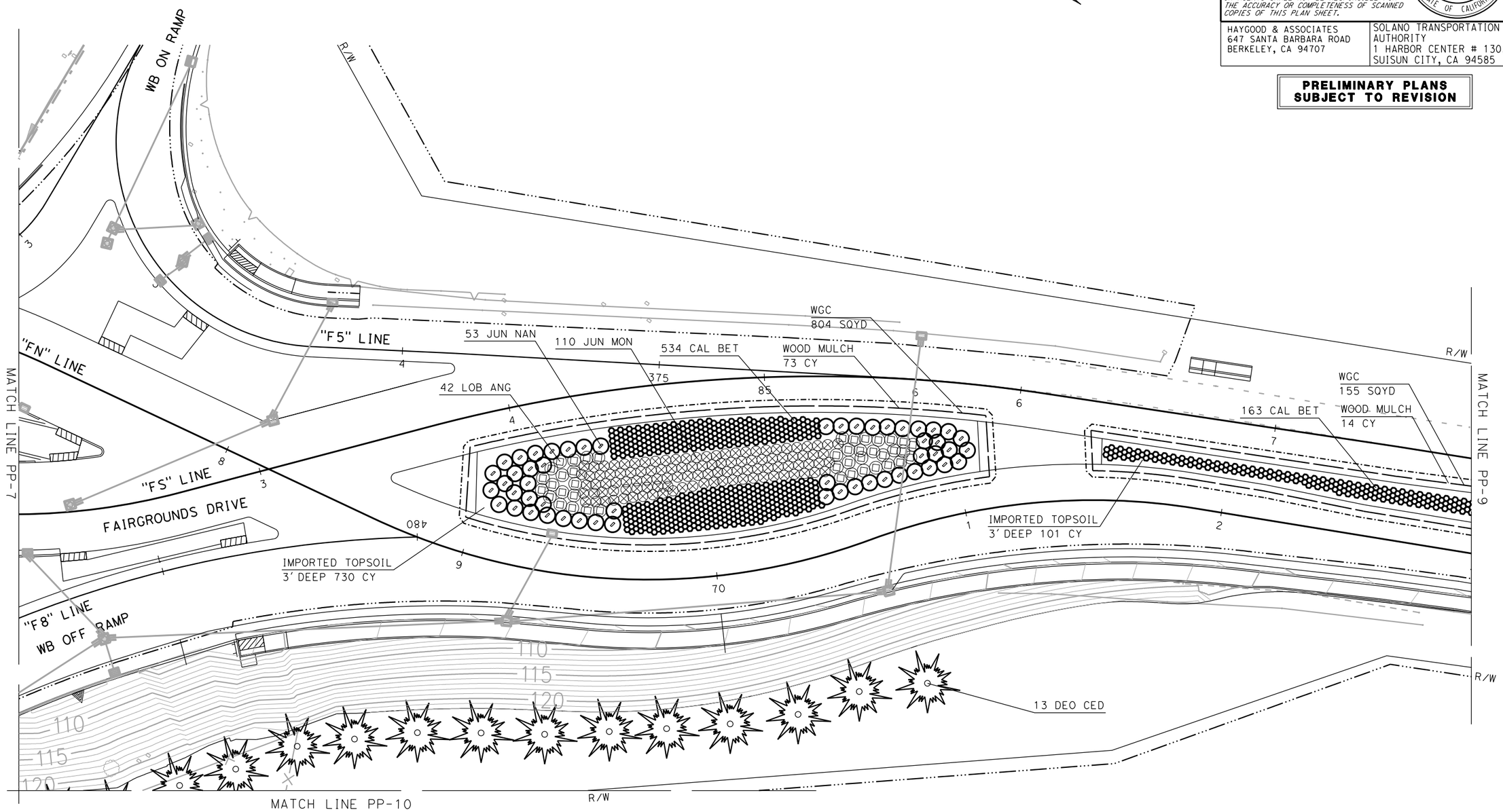
VALLEJO



PLANTING PLAN

SCALE: 1' = 20'

PP-8

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SCK	6-2-21		
REVISED BY	DATE REVISED		
SIMON KENNEY	LEAH HAYGOOD		
CALCULATED-DESIGNED BY	CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR			

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LAST REVISION 00-00-00 | DATE PLOTTED => 2/22/2022 | TIME PLOTTED => 2:41:57 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9	-	-

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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647 SANTA BARBARA ROAD
BERKELEY, CA 94707

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER # 130,
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

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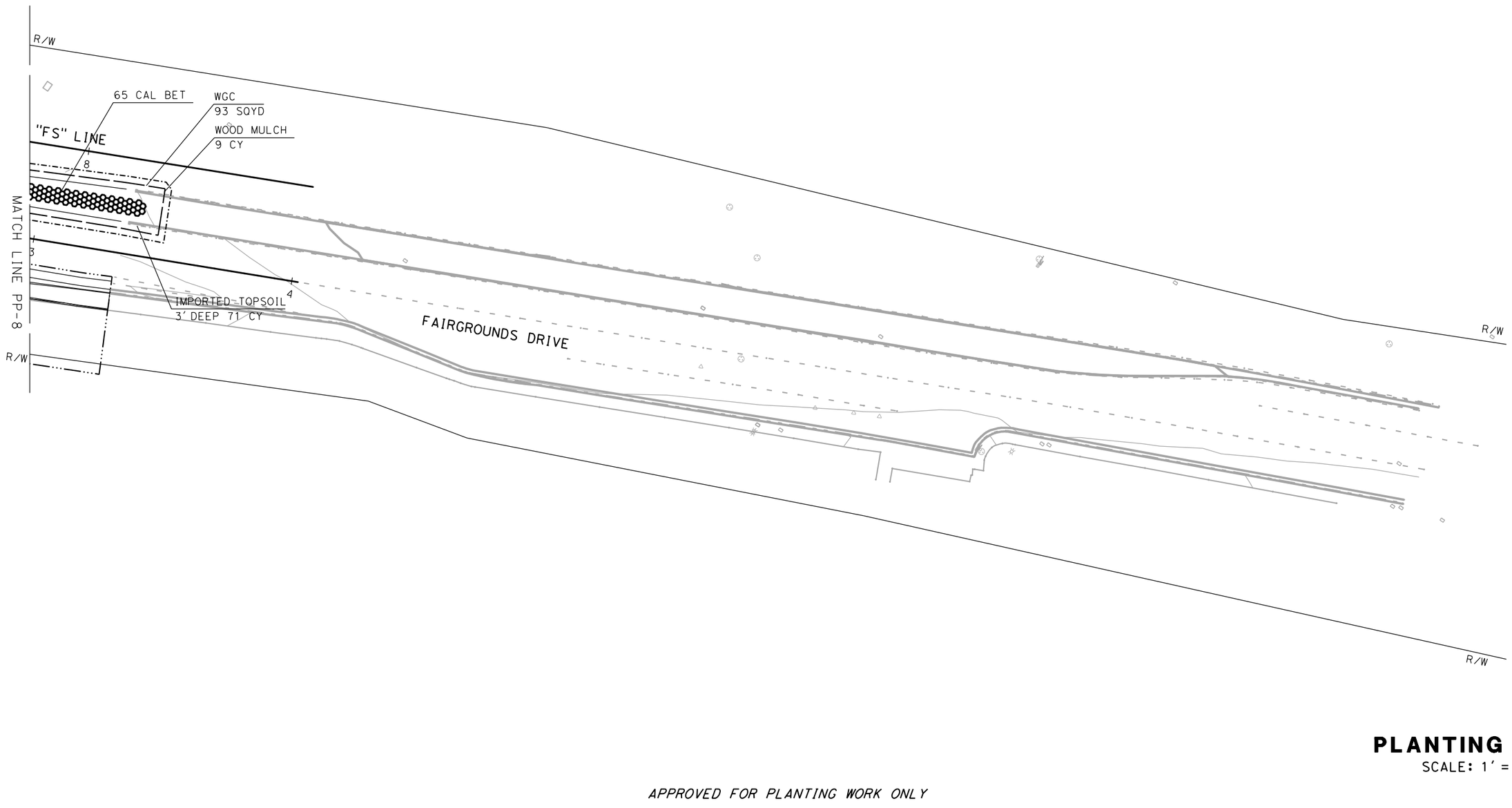

PLANTING PLAN
SCALE: 1' = 20'
PP-9

APPROVED FOR PLANTING WORK ONLY

SCK	6-2-21
REVISED BY	DATE REVISED
SIMON KENNEY	LEAH HAYGOOD
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BORDER LAST REVISED 7/2/2010 | USERNAME => Simon | DGN FILE => 0400020584 su009.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0738 | PROJECT NUMBER & PHASE 04000205841

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BERKELEY, CA 94707

SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER # 130,
SUISUN CITY, CA 94585

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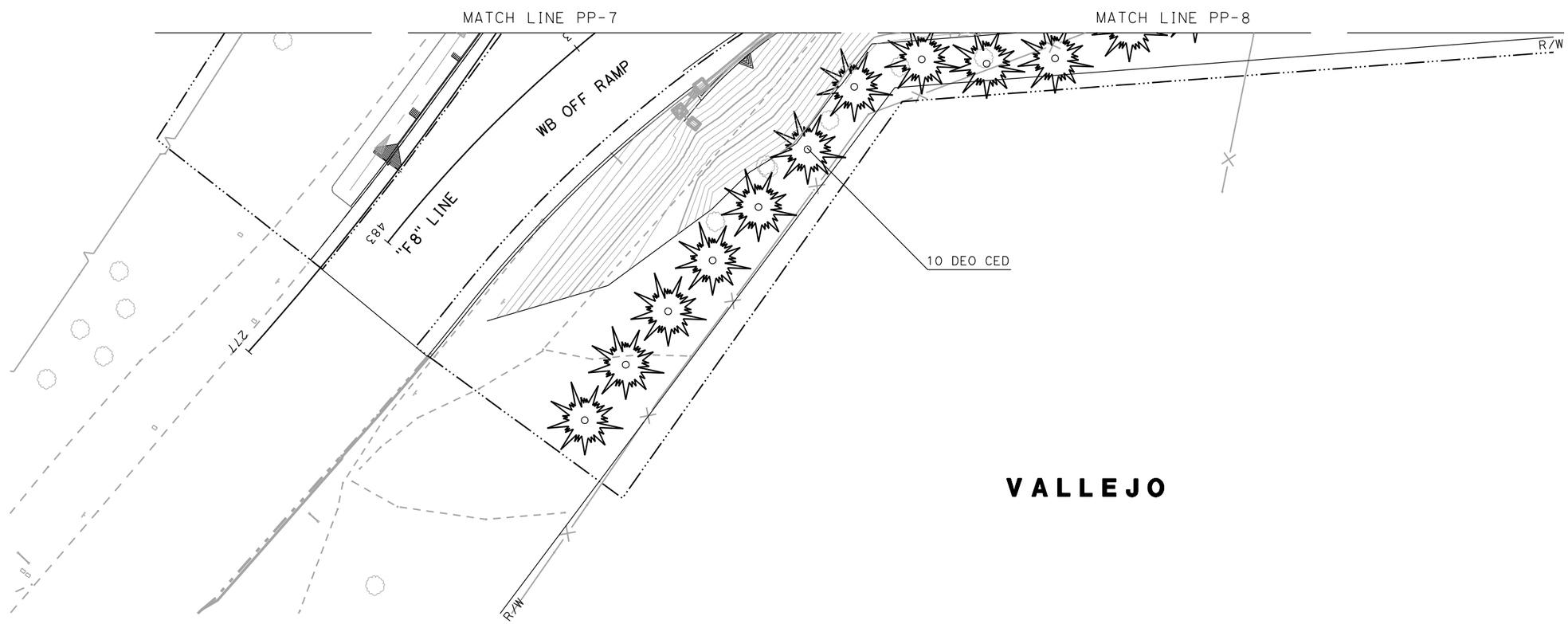

VALLEJO

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PLANTING PLAN

SCALE: 1' = 20'

PP-10

REVISED BY	DATE REVISED
SCK	6-2-21

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SIMON KENNEY	LEAH HAYGOOD

CONSULTANT FUNCTIONAL SUPERVISOR

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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SOLANO TRANSPORTATION AUTHORITY
1 HARBOR CENTER # 130,
SUISUN CITY, CA 94585

PRELIMINARY PLANS SUBJECT TO REVISION

PLANT QUANTITIES

BOTANICAL NAME	COMMON NAME	PLANT GROUP A	PLANT GROUP SOD	PLANT GROUP U	PLANT GROUP K	PACKET FERTILIZER	PLANT BASIN WOOD MULCH	PLANT BASIN SOIL AMENDMENT	PLANT BASIN SLOW-RELEASE FERTILIZER
		EA	SQYD	EA	EA	EA	CY	CY	LB
BACCHARIS PILULARIS 'PIGEON POINT'	COYOTE BUSH	303				303	11.22	11.22	18.94
CALLISTEMON VIMINALIS 'BETTER JOHN'	BETTER JOHN DWARF BOTTLEBRUSH	1995				1995	73.89	73.89	124.69
JUNIPERUS X PFITZERIANA 'MONSAN'	SEA OF GOLD JUNIPER	450				450	16.67	16.67	28.13
JUNIPERUS PROCUMBENS 'NANA'	DWARF JAPANESE JUNIPER	199				199	7.37	7.37	12.44
LOBELIA LAXIFLORA ANGUSTIFOLIA	MEXICAN LOBELIA	384				384	14.22	14.22	24.00
STYLOPHYLLUM VIRENS	DUDLEYA	86				86	3.19	3.19	5.38
PITTOSPORUM TOBIRA	MOCK ORANGE	29				29	1.07	1.07	1.81
SOD	FESCUE (TURF)		9.26					0.002	0.06
RED FESCUE	NO MOW RED FESCUE		22.22					0.005	0.13
ACER RUBRUM 'ARMSTRONG'	ARMSTRONG RED MAPLE			4		8	0.44	0.44	0.75
LAURUS SARATOGA	SARATOGA LAUREL			11		22	1.22	1.22	2.06
QUERCUS LOBATA	VALLEY OAK			4		8	0.44	0.44	0.75
QUERCUS AGRIFOLIA	COAST LIVE OAK			13		26	1.44	1.44	2.44
QUERCUS SHUMARDII	SHUMARD OAK			7		14	0.78	0.78	1.31
CEDRUS DEODARA	DEODAR CEDAR				23	46	2.56	2.56	4.31
	TOTAL	3446	31.48	39	23	3484	129.74	129.75	219.13

PLANTING AREA QUANTITIES

SHEET No.	SOIL AMENDMENT	SLOW-RELEASE FERTILIZER	WOOD MULCH	IMPORTED TOPSOIL	ROOT BARRIER	EDGING	WEED GERMINATION	CULTIVATION
	CY	LB	CY	CY	LF	LF	SQYD	SQYD
PP-1								
PP-2			123	786	96		1359	1359
PP-3			131	595	48		1450	1450
PP-4			162	148	24		1707	1707
PP-5			134	398	120		1473	1473
PP-6			75	469	48	63	649	649
PP-7			3	18			29	29
PP-8			87	831			959	959
PP-9			9	71			93	93
PP-10								
PLANT BASIN SUBTOTAL	129.75	219.13	129.74					
TOTAL	129.75	219.13	853.74	3316	336	63	7719	7719

PLANTING QUANTITIES

PQ-1

REVISED BY	DATE REVISED
SCK	6-2-21

SIMON KENNEY — LEAH HAYGOOD

CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

INDEX OF ELECTRICAL SYSTEMS PLANS:

ELECTRICAL SYSTEMS PLAN SHEET	DESCRIPTION
E-1	ELECTRICAL SYSTEMS
E-2 TO E-3	LEGEND
E-4 TO E-7	SIGNAL AND LIGHTING SYSTEM
E-8 TO E-9	EMERGENCY VEHICLE DETECTION SYSTEM (CITY)
E-10 TO E-11	SIGNAL AND LIGHTING (CITY)
E-12	MODIFYING TRAFFIC MONITORING STATIONS
E-13	MODIFYING CHANGEABLE MESSAGE SIGN SYSTEMS
E-14 TO E-16	LIGHTING (CITY STREET)
E-17 TO E-22	MODIFYING SIGNAL AND LIGHTING SYSTEMS (CITY)
E-23 TO E-25	INTERCONNECTION CONDUIT AND CABLE (CITY)
E-26	ELECTRIC SERVICE FOR IRRIGATION (CITY)
E-27 TO E-28	REMOVING SIGNAL AND LIGHTING SYSTEMS
E-29 TO E-30	ELECTRICAL SYSTEMS
E-31	TEMPORARY TRAFFIC MONITORING STATION SYSTEMS
E-32 TO E-33	TEMPORARY CHANGEABLE MESSAGE SIGN SYSTEMS
E-34 TO E-51	TEMPORARY SIGNAL SYSTEMS
E-52 TO E-56	TEMPORARY LIGHTING (CITY STREET)
E-57 TO E-73	TEMPORARY SIGNAL AND LIGHTING (CITY)
E-74 TO E-75	TEMPORARY INTERCONNECTION CONDUIT AND CABLE (CITY)
ED-1 TO ED-9	ELECTRICAL SYSTEMS DETAILS
EQ-1 TO EQ-7	ELECTRICAL SYSTEMS QUANTITIES

NOTES:

1. THE CONTRACTOR MUST COMPLY WITH THE SIGN PLANS FOR SIGNS MOUNTED ON SIGNAL AND LIGHTING STANDARDS AND MAST ARMS.
2. ALL ELECTRICAL EQUIPMENT MUST BE INSTALLED AWAY FROM MGS VEGETATION CONTROL AREA.
3. ALL TRAFFIC RATED PULL BOXES MUST BE WELDED AS SHOWN ON SHEET ED-2, EXCEPT DURING STAGE CONSTRUCTION, UNLESS OTHERWISE NOTED.
4. INSTALL TRACE WIRES FOR ALL NEW CALTRANS CONDUITS PER CALTRANS STANDARD SPECIFICATIONS.
5. IN ORDER TO PROTECT THE EXISTING REINFORCING STEEL IN BRIDGE STRUCTURE, NON-DESTRUCTIVE TESTING MUST BE PERFORMED PRIOR TO DRILLING FOR CONCRETE ANCHORS FOR THE MOUNTING OF LIGHTS OR CONDUITS TO ANY PART OF THE STRUCTURE.

ABBREVIATIONS:

AT&T	AMERICAN TELEPHONE AND TELEGRAPH COMPANY
AWG	AMERICAN WIRE GAUGE
GPS	GLOBAL POSITIONING SYSTEM
PG&E	PACIFIC GAS AND ELECTRIC COMPANY
TC	TELEPHONE CABLE

LEGEND:

C — CITY 15 W LED RECESSED WALL LUMINAIRE WITH ASYMMETRICAL LIGHT DISTRIBUTION IN BARRIER (BEGA MODEL No. 33058-K4-COL OR APPROVED EQUAL). SEE SHEET ED-6 FOR DETAILS.

C — CITY 22 W LED SOFFIT LIGHT (GARDCO MODEL No. SVPG-140L-450-NW-G2-SBO-5-UNV-COL OR APPROVED EQUAL) WITH JUNCTION BOX PER MANUFACTURER RECOMMENDATION. SEE SHEET ED-6 FOR DETAILS.

CITY 54 W LED STREET LIGHT WITH 8' LMA (LEOTEK MODEL No. GCJ3-30J-MV-40K-3R-GY-080-PCR7-CR-RWG-WL OR APPROVED EQUAL) WITH CALTRANS TYPE 15 POLE AND FOUNDATION PER MANUFACTURER RECOMMENDATION

CITY DUAL 54 W LED STREET LIGHTS WITH 8' DUAL LMA (LEOTEK MODEL No. GCJ3-30J-MV-40K-3R-GY-080-PCR7-CR-RWG-WL OR APPROVED EQUAL) WITH CALTRANS TYPE 15D POLE AND FOUNDATION PER MANUFACTURER RECOMMENDATION

CITY DUAL 95 W LED DECORATIVE STREET LIGHTS (GARDCO MODEL No. (2) SFRA-140L-2100-NW-G2-AR-5-UNV-COL OR APPROVED EQUAL) WITH 16ft ROUND NON-TAPERED STEEL POLE (KW MODEL No. RSP16-4.0-11-COL-DM2180-BC OR APPROVED EQUAL) AND CALTRANS TYPE 15 FOUNDATION WITH 0.75" Dia x 17" x 3" ANCHOR BOLTS PER MANUFACTURER RECOMMENDATION

Exist CITY 63 W LED STREET LIGHT

S — Exist CITY SOLAR LICENSE PLATE READER

S — REUSED CITY SOLAR LICENSE PLATE READER

r — Exist CITY RADAR DETECTION UNIT

ELECTRICAL SYSTEMS

INDEX OF ELECTRICAL SYSTEMS PLANS, NOTES, ABBREVIATIONS AND LEGEND

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 11:48:08 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORTATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

LEGEND: (FOR SHEETS E-4 TO E-27)

1. INSTALL DEPARTMENT-FURNISHED MODEL 2070E CONTROLLER ASSEMBLY IN MODEL 332LS CABINET WITH BBS ELECTRONIC ASSEMBLY. THE BBS CABINET AND BATTERIES MUST BE CONTRACTOR-FURNISHED.
2. FURNISH AND INSTALL TYPE III-AF METERED SERVICE EQUIPMENT ENCLOSURE.
3. FURNISH AND INSTALL GPS EVUD ON TOP OF SIGNAL STANDARD PER MANUFACTURER RECOMMENDATION. SEE SHEET ED-4 FOR DETAILS.
4. INSTALL 3-SECTION VEHICLE SIGNAL HEAD. SEE DETAIL A ON SHEET E-4.
5. RC WALL-MOUNTED LIGHT AND CONDUCTORS, DISCONNECT SERVICE, AND ABANDON CONDUIT.
6. FURNISH AND INSTALL MODEL 2070 CONTROLLER ASSEMBLY IN MODEL 332L CABINET.
7. FURNISH AND INSTALL TYPE III-BF METERED AND UNMETERED SERVICE EQUIPMENT ENCLOSURE.
8. INSTALL LIGHTING NUMBER ON THE POLE SURFACE. COORDINATE WITH PG&E FOR STREET LIGHT POLE NUMBER.
9. RL Exist CMS CONTROLLER ASSEMBLY. FRONT DOOR MUST FACE NORTHEAST.
10. SEE SIGN PLAN FOR SIGN RELOCATION DETAIL. THE CONTRACTOR MUST COORDINATE WITH THE OWNER TO RECONNECT THE RELOCATED SIGN LIGHTING TO Exist SERVICE WITH IN-KIND OVERHEAD WIRES AND CONDUCTORS.
11. SEE SIGN PLAN FOR SIGN RELOCATION DETAIL. THE CONTRACTOR MUST COORDINATE WITH THE OWNER TO RECONNECT THE RELOCATED INTERNALLY ILLUMINATED COMMERCIAL SIGN TO Exist SERVICE WITH IN-KIND CONDUITS, CONDUCTORS, AND PULL BOXES.
12. Exist MODEL 170 CONTROLLER ASSEMBLY IN MODEL 332 CABINET.
13. Exist TYPE III SERVICE EQUIPMENT ENCLOSURE.
14. INSTALL NEW APS TO Exist SIGNAL STANDARD AS INDICATED.
15. RC Exist PULL BOX. INSTALL NEW PULL BOX AS INDICATED.
16. INSTALL DEPARTMENT-FURNISHED MODEL 2070E CONTROLLER UNIT IN CONTRACTOR-FURNISHED COMPLETELY WIRED MODEL 334LS CABINET FOR TMS. FRONT DOOR MUST FACE NORTHEAST.
17. INSTALL CELLULAR DATA MODEM ASSEMBLY, ANTENNA, POWER SUPPLY, TERMINAL BLOCK AND ETHERNET SWITCH IN CABINET. SEE SHEET ED-5 FOR DETAILS.
18. Exist SERVICE CONDUIT AND CONDUCTORS.
19. 2"C, 2#4 (120 V Ltg), 2#10 (120 V SOFFIT Ltg).
20. INSTALL STREET LIGHT POLE AT 3′ FROM CONCRETE BARRIER. EXACT LOCATION MAY BE ADJUSTED TO SUIT FIELD CONDITION AS DIRECTED BY ENGINEER.
21. SEE CITY LIGHT POLE IN MEDIAN IN LANDSCAPE AREA DETAIL ON SHEET ED-6.
22. COORDINATE WITH PG&E FOR SERVICE CONNECTION.
23. INSTALL LOOP DETECTOR WITH 5-TURN.
24. FURNISH AND INSTALL EVUD ON SIGNAL MAST ARM PER CALTRANS STANDARD PLAN ES-7R AND MANUFACTURER RECOMMENDATION.
25. THE CONTRACTOR MUST USE CAUTION WHEN INSTALLING FOUNDATION NEAR UTILITY FACILITIES.
26. 2"C, 2#6 (120 V Sig), 2#8 (240 V Ltg), 2#10 (120 V Irr), 3#14 (PEU).
27. COORDINATE WITH CITY POLICE DEPARTMENT TO RELOCATE Exist CITY SOLAR LICENSE PLATE READER TO NEW LOCATION BY THE CITY POLICE DEPARTMENT.
28. 3"C, 3#2/0 (SERVICE).
29. 2"C, 2#6 (120 V Sig), 2#6 (240 V Ltg), 2#8 (240 V SIGN Ltg), 3#14 (PEU).
30. FURNISH AND INSTALL DISCRIMINATOR MODULE INSIDE TRAFFIC SIGNAL CONTROLLER.
31. FURNISH AND INSTALL IISNS ON SEPARATE ARM PER CITY STANDARD DETAIL DRAWING No. 7-21. COORDINATE WITH CITY FOR SIGN MESSAGE ON BOTH SIDES.
32. 2"C, 2#6 (120 V Sig), 2#8 (120 V Ltg), 4#10 (120 V Irr), 2#12 (120 V IISNS), 3#14 (PEU).
33. Exist 3"C, 1 SIC.
34. Exist 3"C, 2 SIC.
35. PULL BACK Exist 1 SIC FROM Exist CONTROLLER CABINET AT FAIRGROUNDS Dr/NORTHERN SIX FLAGS EXIT TO THIS PULL BOX. REINSTALL Exist 1 SIC FROM THIS PULL BOX TO NEW CONTROLLER CABINET AT FAIRGROUNDS Dr/NORTHERN SIX FLAGS EXIT IN NEW AND Exist CONDUITS AS INDICATED.
36. Exist 3"C, REINSTALL Exist 1 SIC.
37. 3"C, 1 SIC, REINSTALL Exist 1 SIC.
38. Exist 3"C, 1 SIC. RC 1 SIC. ADD 1 SIC.
39. 3"C, 1 SIC.
40. 3"C, 2 SIC.
41. Exist 3"C, 1 SIC. RC 1 SIC. ADD 1 SIC TO Exist CONTROLLER CABINET AT FAIRGROUNDS Dr/GATEWAY Dr (±1100′).
42. COIL 50′ OF EACH SIC IN THIS PULL BOX.
43. Exist 2"C, 2 DLC. RC 2 DLC. ADD 2 DLC.
44. Exist 2½"C, 5 DLC. RC 5 DLC. ADD 5 DLC.
45. Exist 2"C, 6 DLC. RC 6 DLC. ADD 6 DLC.
46. Exist 2"C, 7 DLC. RC 7 DLC. ADD 7 DLC.
47. Exist 2½"C, 7 DLC. RC 7 DLC. ADD 7 DLC.
48. 2"C, 7 DLC.
49. 3"C, 14 DLC.
    3"C, 2#6 (120 V TMS).
50. 2"C, 2#6 (120 V TMS).
51. PROTECT Exist CONDUIT DURING CONSTRUCTION.
52. Exist 3"C, 2#6 (120 V TMS), 2#6 (120 V CMS CABINET), 2#2 AND 1#2/0 (240 V SERVICE AND NEUTRAL TO CMS), 2#12 (120 V TDC). RC 2#12.
53. Exist 3"C, 2#6 (120 V TMS), 2#6 (120 V CMS CABINET), 2#2 AND 1#2/0 (240 V SERVICE AND NEUTRAL TO CMS).
54. 3"C, 2#6 (120 V TMS), 2#6 (120 V CMS CABINET), 2#2 AND 1#2/0 (240 V SERVICE AND NEUTRAL TO CMS).
55. 3"C, 2#6 (120 V CMS CABINET), 2#2 AND 1#2/0 (240 V SERVICE AND NEUTRAL TO CMS).
56. 3"C, DEPARTMENT-FURNISHED HARNESS #4 AND #5.
    3"C, 2#2 AND 1#2/0 (240 V SERVICE AND NEUTRAL TO CMS).
57. Exist 3"C, HARNESS #4 AND #5. RC HARNESS #4 AND #5. ADD DEPARTMENT-FURNISHED HARNESS #4 AND #5.
    Exist 3"C, 2#2 AND 1#2/0. RC 2#2 AND 1#2/0. ADD 2#2 AND 1#2/0 (240 V SERVICE AND NEUTRAL TO CMS).
58. Exist CONDUIT AND CONDUCTORS/CABLES.
59. 2"C, 2#6 (120 V STREET Ltg), 2#8 (120 V Ltg), 2#10 (120 V Irr), 2#12 (120 V IISNS), 3#14 (PEU).
60. 2"C, 2#6 (120 V Sig).
61. Exist 2"C, 4 DLC. RC 4 DLC. ADD 4 DLC.
62. Exist 1 1/2 "C, 2 DLC. RC 2 DLC. ADD 2 DLC.
63. Exist 3"C, 19#14, 3#8, 2#12, 10 DLC. RC 19#14, 3#8, 2#12, 10 DLC. ADD 7 DLC.
64. RL Exist LIGHT POLE WITH STRUCTURALLY ADEQUATE FOUNDATION. THE CONTRACTOR MUST COORDINATE WITH THE OWNER FOR NEW LOCATION AND DETERMINE THE EXACT LOCATION AS DIRECTED THE ENGINEER. THE CONTRACTOR MUST COORDINATE WITH THE OWNER TO RECONNECT THE RELOCATED LIGHT TO Exist SERVICE WITH IN-KIND OVERHEAD WIRES AND CONDUCTORS.
65. COORDINATE WITH PG&E FOR SERVICE DISCONNECTION.
66. IRRIGATION CONTROLLER. SEE IRRIGATION PLAN FOR EXACT LOCATION.
67. ADJUST Exist PULL BOX TO FINISH GRADE AS REQUIRED.

ELECTRICAL SYSTEMS

E-2

REVISED BY	DATE REVISED
ANSON HUYNH	KIN Y. CHAN

CALCULATED-DESIGNED BY — CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 4:19:17 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER 12-30-22 DATE

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

LEGEND: (FOR SHEETS E-4 TO E-27)

68 Exist 2"C, TWO FO CABLES.

69 2"C, 2#4 (120 V Ltg), 2#8 (120 V BARRIER Ltg), 2#10 (120 V SOFFIT Ltg), 2#10 (120 V Irr), 3#14 (PEU).

70 3"C, 2#4 (120 V Ltg), 2#8 (120 V BARRIER Ltg), 2#10 (120 V SOFFIT Ltg), 2#10 (120 V Irr), 3#14 (PEU).

71 2"C, 2#4 (120 V Ltg), 2#8 (120 V BARRIER Ltg), 2#10 (120 V SOFFIT Ltg), 2#10 (120 V Irr).

72 2"C, 2#4 (120 V Ltg), 2#8 (120 V BARRIER Ltg), 2#10 (120 V SOFFIT Ltg).

73 2"C, 2#4 (120 V Ltg).

74 1½"C, 2#8 (120 V BARRIER Ltg).
INSTALL TYPE 1 CONDUIT IN CONCRETE BARRIER.

75 2"C, 2#10 (120 V SOFFIT Ltg).

76 1½"C, 2#10 (120 V SOFFIT Ltg).

77 INSTALL TYPE 1 CONDUIT ALONG ABUTMENT, SURFACE-MOUNTED WITH CONDUIT CLAMP AT MAXIMUM 5′ INTERVALS.

78 SURFACE MOUNT TYPE 1 CONDUIT ALONG ABUTMENT AND BOTTOM OF BRIDGE WITH CONDUIT CLAMP AT MAXIMUM 5′ INTERVALS.

79 INSTALL 6" x 6" x 6" NEMA 4X OUTDOOR RATED METAL JUNCTION BOX.

80 INSTALL SOFFIT LIGHT IN THE CENTER OF BRIDGE ABOVE CENTER OF PATHWAY. MOUNT SOFFIT LIGHT TO A NEMA OUTDOOR RATED METAL JUNCTION BOX PER MANUFACTURER RECOMMENDATION. SEE SHEET ED-6 FOR DETAIL.

81 SEE SHEET ED-3 FOR DETECTOR DETAILS.

82 INSTALL STREET LIGHT POLE BEHIND BACK OF WALK.

83 INSTALL STREET LIGHT POLE IN MIDDLE OF MEDIAN ISLAND.

84 INSTALL 4-SECTION VEHICLE SIGNAL HEAD. SEE DETAIL A ON SHEET E-21.

85 COORDINATE WITH THE OWNER TO CONNECT THE SERVICE BACK TO Exist SERVICE SOURCE.

86 COORDINATE WITH EQUIPMENT OWNER TO RELOCATE SMALL CELL 5G EQUIPMENT FROM Exist TO NEW STREET LIGHT POLE.

87 INSTALL NEW VEHICLE SIGNAL HEAD AND MOUNTING TO Exist SIGNAL STANDARD AS INDICATED.

88 Exist SERVICE CONDUIT. RC CONDUCTORS. ADD 3#2/0 (SERVICE).

ELECTRICAL SYSTEMS

E-3

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
DAN K. YAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 TIME PLOTTED => 11:48:20 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

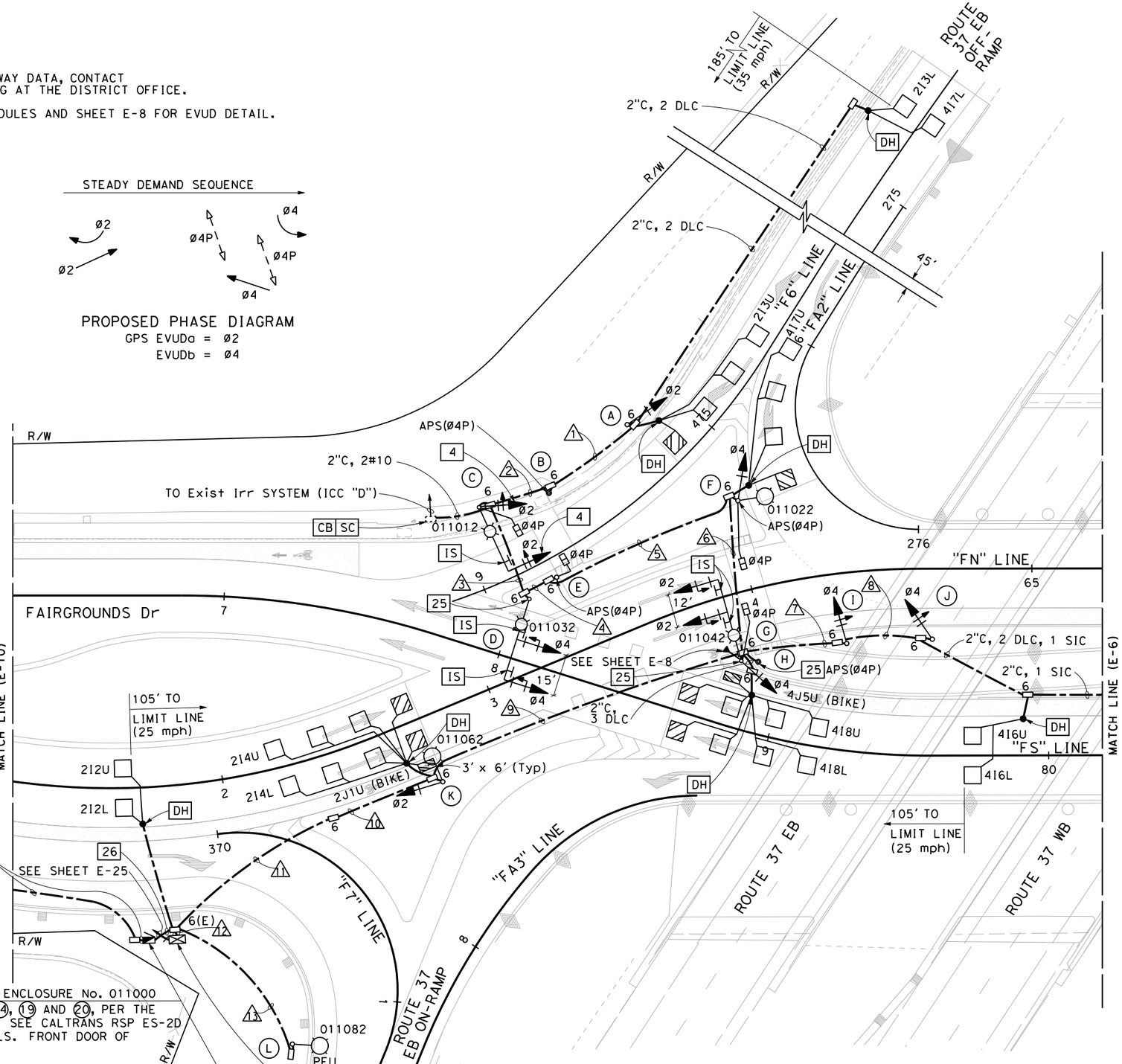
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

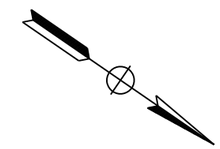
SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

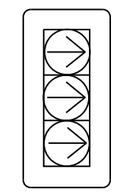
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE SHEET E-5 FOR SCHEDULES AND SHEET E-8 FOR EVUD DETAIL.

PROPOSED PHASE DIAGRAM
GPS EVUDa = Ø2
EVUDb = Ø4







DETAIL A
NO SCALE

2 TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. 011000 PROVIDE EQUIPMENT ITEMS (1) - (14), (19) AND (20), PER THE WIRING DIAGRAM ON SHEET ED-1. SEE CALTRANS RSP ES-2D FOR ENCLOSURE AND BASE DETAILS. FRONT DOOR OF CABINET SHALL FACE WEST.

CTID No. 04230370011000

LOAD:
±1000 W SIGNAL
6-132 W LED Lum (Rdwy 11)
150 W Irr (ICC "D")

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

1 FRONT DOOR MUST FACE SOUTH

LOCATION 4

APPROVED FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING SYSTEM

SCALE: 1" = 20'

E-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:49:15 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

SCHEDULES: (FOR SHEET E-4)

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS — CONDUIT RUN NUMBER 1	2	3	4	5	6	7	8	9	10	11	12	13
No. 14 CONDUCTORS													
Ø2	3	3	3	3	3	3			3	3	3	3	
Ø4				3	3	3	3	3	6	6	6	6	
Ø4P			2	2	2	2			2	2	2	2	
APS(Ø4P)		2	2	2	2	2			2	2	2	2	
PEU													3
SPARES	3	3	3	3	3	3	3	3	6	6	6	6	3
TOTAL No. 14	6	8	10	13	13	13	6	6	19	19	19	19	6
No. 10 CONDUCTORS													
IRRIGATION			2	2	2	2			2	2	2		
No. 8 CONDUCTORS													
LIGHTING			2	2	2	2			2	2	2		2
SIGNAL NEUTRAL	1	1	1	1	1	1	1	1	2	2	2	2	
TOTAL No. 8	1	1	3	3	3	3	1	1	4	4	4	2	2
No. 6 CONDUCTORS													
SIGNAL SERVICE												2	
DETECTOR CABLES (DLC)													
2I2U/2I2L												2	
2I3U/2I3L	2	2	2	2	2	2			2	2	2	2	
2I4U/2I4L										2	2	2	
2J1U										1	1	1	
4I6U/4I6L							2	2	2	2	2	2	
4I7U						1			1	1	1	1	
4I7L	1	1	1	1	1	1			1	1	1	1	
4I8U/4I8L									2	2	2	2	
4J5U									1	1	1	1	
TOTAL DETECTOR CABLES	3	3	3	3	3	4	2	2	9	12	12	14	
GPS EVUC									1	1	1	1	
APS MANUFACTURER'S CABLE		1											
SIC							1	1	1	1	1	1	
CONDUIT SIZE (INCHES)	2	2	3	3	3	3	3	3	4	4	4	2-4"	2
NEW/EXISTING CONDUIT (N/E)	N	N	N	N	N	N	N	N	N	N	N	N	N
% FILL	12	15	9	10	10	11	7	7	13	15	15	8	7

STANDARD AND EQUIPMENT SCHEDULE

⊗	STANDARD TYPE	SMA	LMA	Veh Sig Mtg Ø	MAST ARM	Ø	POLE	Ped Sig Ø	Mtg	APS Ø	ARROW	LED Lum	SPECIAL REQUIREMENTS *
A	1-B					2	TV-1-T						
B	PBA POST									4	→		
C	19-4-100	25'	12'	2	MAS	2	SV-1-T	4	SP-1-T			Rdwy 11	SEE NOTE 4 ON SHEET E-4.
D	19-4-100	30'	12'	4 4	MAS MAS							Rdwy 11	SEE NOTE 25 ON SHEET E-4.
E	1-B (7')							4	TP-1-T	4	→		
F	15TS		12'			4	SV-1-T	4	SP-1-T	4	→	Rdwy 11	
G	19-4-100	30'	12'	2 2	MAS MAS	4	SV-1-T	4	SP-1-T			Rdwy 11	SEE NOTE 25 ON SHEET E-4.
H	PBA POST									4	→		SEE NOTE 25 ON SHEET E-4.
I	1-B					4	TV-1-T						
J	1-B					4	TV-1-T						
K	15TS		12'			2	SV-1-T					Rdwy 11	
L	15		15'									Rdwy 11	INSTALL PEU ON TOP OF POLE.

* SEE SIGN PLANS FOR SIGN DETAILS

SIGNAL AND LIGHTING SYSTEM

LOCATION 4

E-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:49:21 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

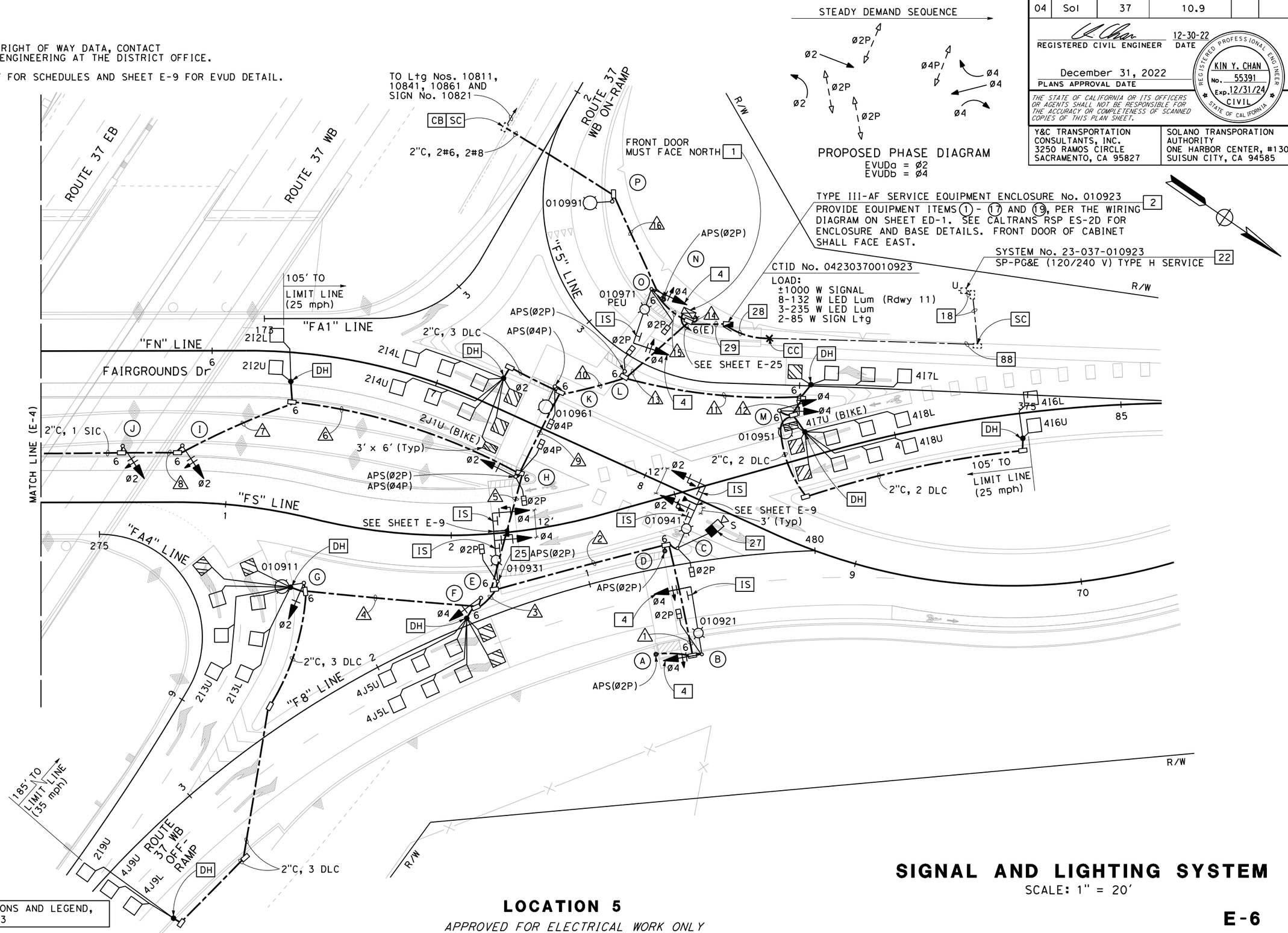
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE SHEET E-7 FOR SCHEDULES AND SHEET E-9 FOR EVUD DETAIL.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

LOCATION 5

APPROVED FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING SYSTEM

SCALE: 1" = 20'

E-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN — REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:49:26 AM

BORDER LAST REVISED 7/2/2010 — USERNAME => jnguyen — DGN FILE => 0400020584ua006 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — UNIT 0738 — PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

SCHEDULES: (FOR SHEET E-6)

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS — CONDUIT RUN NUMBER 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
No. 14 CONDUCTORS																
Ø2		3	3	3	6	3	3	3	9	9			9	9		
Ø4	3	3	3		6				6	6	3	3	9	9	3	
Ø2P	2	2			2				2	2			2	2	2	
Ø4P									2	2			2	2		
APS(Ø2P)	2	2			2				2	2			2	2	2	
APS(Ø4P)									2	2			2	2		
PEU															3	
SPARES	3	3	3	3	6	3	3	3	9	9	3	3	12	12	3	
TOTAL No. 14	10	13	9	6	22	6	6	6	32	32	6	6	38	38	13	
No. 8 CONDUCTORS																
SIGN LIGHTING															2	2
SIGNAL NEUTRAL	1	1	1	1	2	1	1	1	3	3	1	1	4	5	1	
TOTAL No. 8	1	1	1	1	2	1	1	1	3	3	1	1	4	5	3	2
No. 6 CONDUCTORS																
LIGHTING	2	2	2	2	2				2	2	2	2	2		2	2
SIGNAL SERVICE														2		
TOTAL No. 6	2	2	2	2	2				2	2	2	2	2	2	2	2
DETECTOR CABLES (DLC)																
2I2U/2I2L						2			2	2			2	2		
2I3U/2I3L			2	2	2				2	2			2	2		
2I4U/2I4L										2			2	2		
2I9U			1	1	1				1	1			1	1		
2JIU										1			1	1		
4I6U/4I6L											2	2	2	2		
4I7U											1	1	1	1		
4I7L											1		1	1		
4I8U/4I8L											2	2	2	2		
4J5U/4J5L			2		2				2	2			2	2		
4J9U/4J9L			2	2	2				2	2			2	2		
TOTAL DETECTOR CABLES			7	5	7	2			9	12	6	5	18	18		
EVUC		1			2				2	2			2	2		
SIC						1	1	1	1	1			1	1		
CONDUIT SIZE (INCHES)	3	3	3	3	4	3	3	3	4	4	3	3	2-4"	2-4"	3	2
NEW/EXISTING CONDUIT (N/E)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
% FILL	6	7	12	10	12	7	5	5	16	18	11	10	12	12	8	8

STANDARD AND EQUIPMENT SCHEDULE

⊗	STANDARD TYPE	SMA	LMA	Veh Sig Mtg Ø	MAST ARM	Ø	POLE	Ped Sig Ø	Mtg	APS Ø	ARROW	LED Lum	SPECIAL REQUIREMENTS *
A	PBA POST									2	→		
B	19-4-100	30′	12′	4	MAS	4	SV-1-T	2	SP-1-T			Rdwy 11	SEE NOTE 4 ON SHEET E-6.
C	19-4-100	30′	12′	2 2	MAS MAS			2	SP-1-T			Rdwy 11	SEE NOTE 27 ON SHEET E-6.
D	PBA POST									2	→		
E	19-4-100	30′	12′	4 4	MAS MAS			2	SP-1-T	2	→	Rdwy 11	SEE NOTE 25 ON SHEET E-6.
F	1-B					4	TV-1-T						
G	15TS		12′			2	SV-1-T					Rdwy 11	
H	1-B					2	TV-1-T	2 4	SP-2-T	2 4	→ ←		
I	1-B					2	TV-1-T						
J	1-B					2	TV-1-T						
K	15TS		12′					4	SP-1-T	4	→	Rdwy 11	
L	1-B (7′)							2	TP-1-T	2	←		
M	15TS		12′			4 4	SV-2-TB					Rdwy 11	
N	PBA POST									2	←		
O	19-4-100	25′	12′	4	MAS	4	SV-1-T	2	SP-1-T			Rdwy 11	SEE NOTE 4 ON SHEET E-6. INSTALL PEU ON TOP OF POLE.
P	15		15′									Rdwy 11	

* SEE SIGN PLANS FOR SIGN DETAILS

SIGNAL AND LIGHTING SYSTEM

LOCATION 5

E-7

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 11:49:31 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

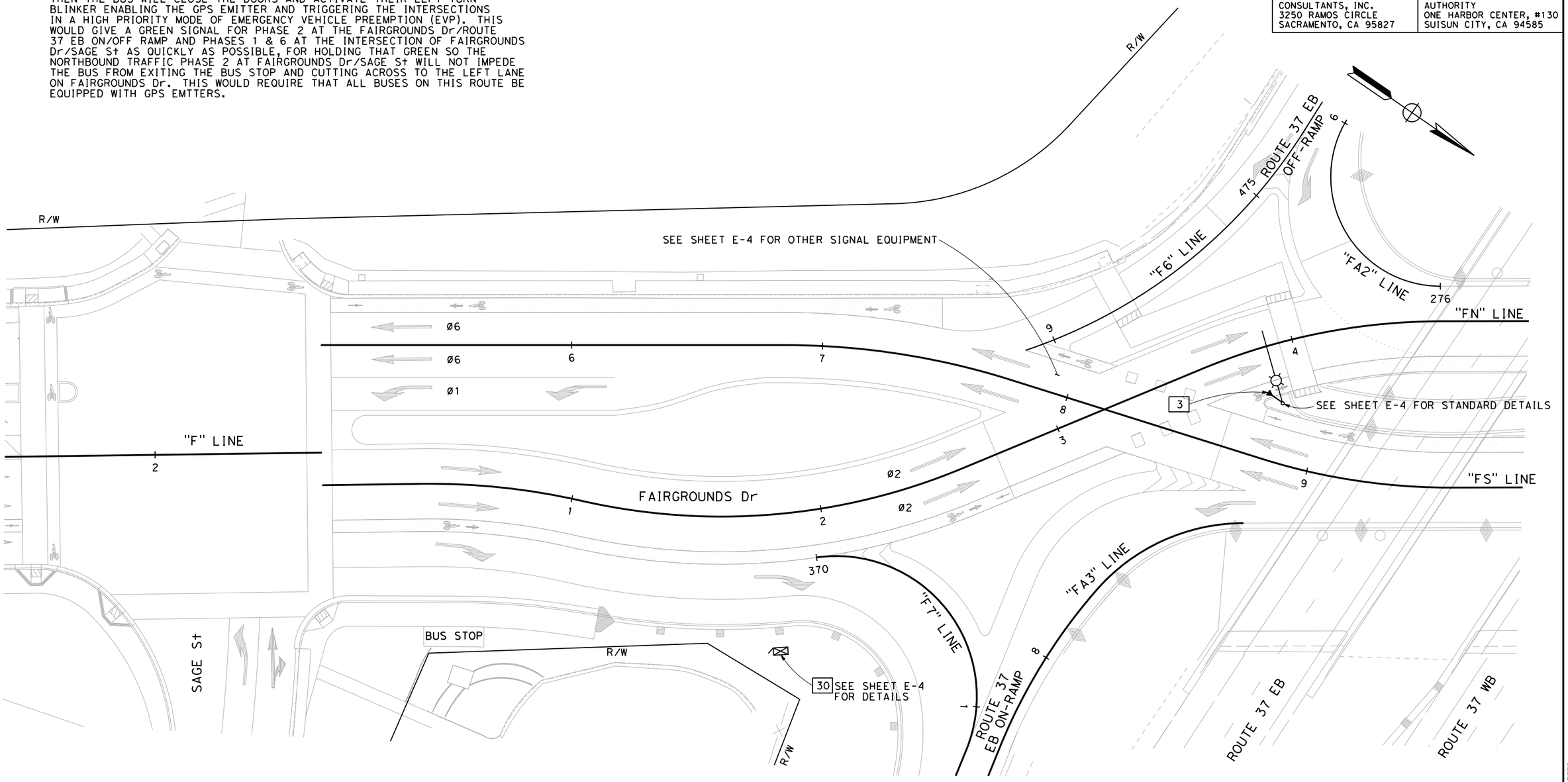
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE SHEET E-4 FOR COMPLETE SIGNAL AND LIGHTING SYSTEM PLAN.
3. GPS EMERGENCY VEHICLE PREEMPTION OPERATOR: ONCE THE BUS PULLS INTO THE BUS STOP ON THE NORTHEAST CORNER OF FAIRGROUNDS Dr/SAGE St INTERSECTION, AND THE GPS EMITTER ON THE BUSES WILL GO INTO DISABLE MODE BY OPENING THE BUS DOORS. THEN THE BUS WILL CLOSE THE DOORS AND ACTIVATE THEIR LEFT TURN BLINKER ENABLING THE GPS EMITTER AND TRIGGERING THE INTERSECTIONS IN A HIGH PRIORITY MODE OF EMERGENCY VEHICLE PREEMPTION (EVP). THIS WOULD GIVE A GREEN SIGNAL FOR PHASE 2 AT THE FAIRGROUNDS Dr/ROUTE 37 EB ON/OFF RAMP AND PHASES 1 & 6 AT THE INTERSECTION OF FAIRGROUNDS Dr/SAGE St AS QUICKLY AS POSSIBLE, FOR HOLDING THAT GREEN SO THE NORTHBOUND TRAFFIC PHASE 2 AT FAIRGROUNDS Dr/SAGE St WILL NOT IMPEDE THE BUS FROM EXITING THE BUS STOP AND CUTTING ACROSS TO THE LEFT LANE ON FAIRGROUNDS Dr. THIS WOULD REQUIRE THAT ALL BUSES ON THIS ROUTE BE EQUIPPED WITH GPS EMTTERS.



EMERGENCY VEHICLE DETECTION SYSTEM (CITY)

SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

LOCATION 4

APPROVED FOR ELECTRICAL WORK ONLY

E-8

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:49:35 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

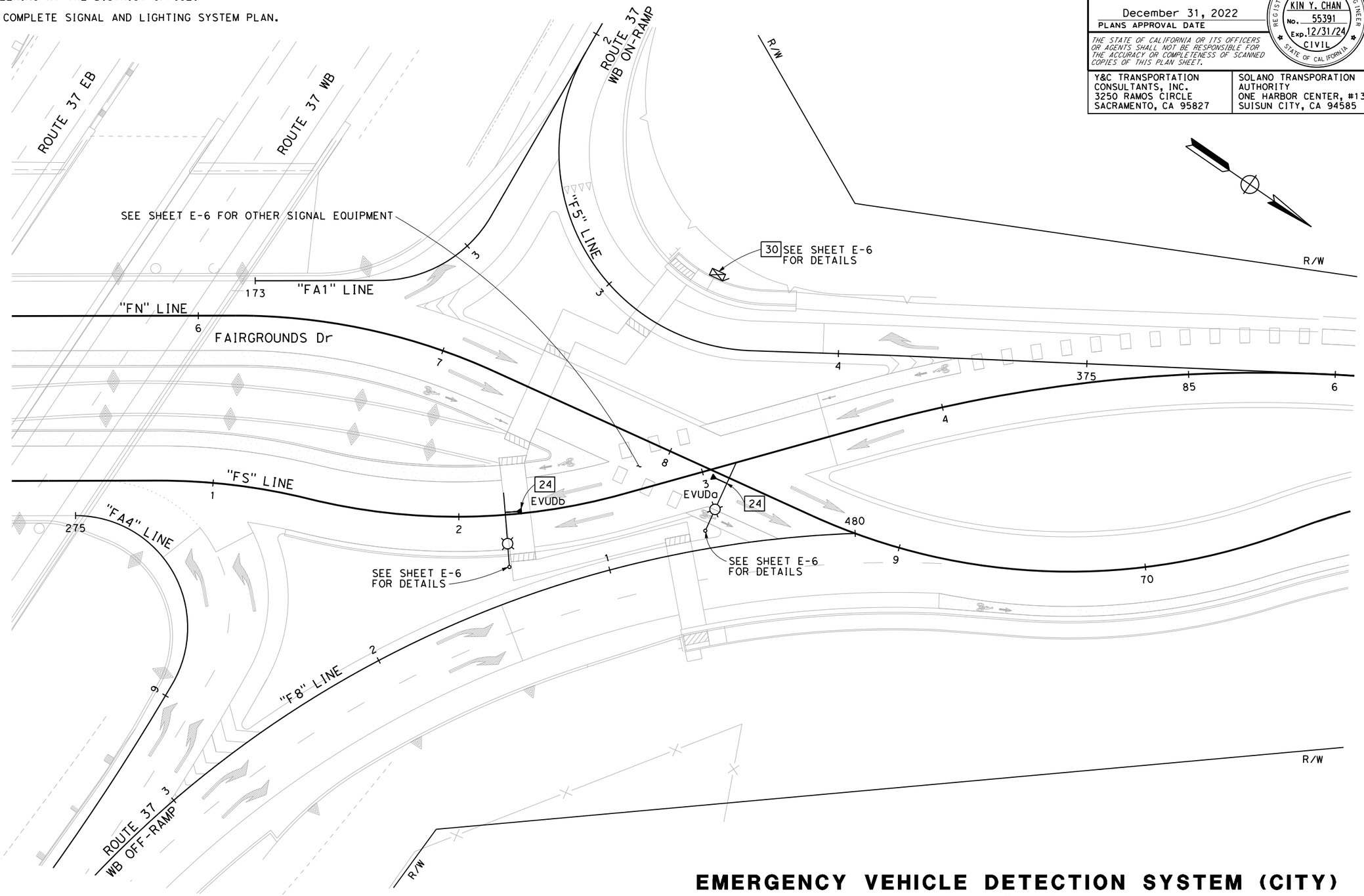
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE SHEET E-6 FOR COMPLETE SIGNAL AND LIGHTING SYSTEM PLAN.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

LOCATION 5

APPROVED FOR ELECTRICAL WORK ONLY

EMERGENCY VEHICLE DETECTION SYSTEM (CITY)

SCALE: 1" = 20'

E-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:49:41 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

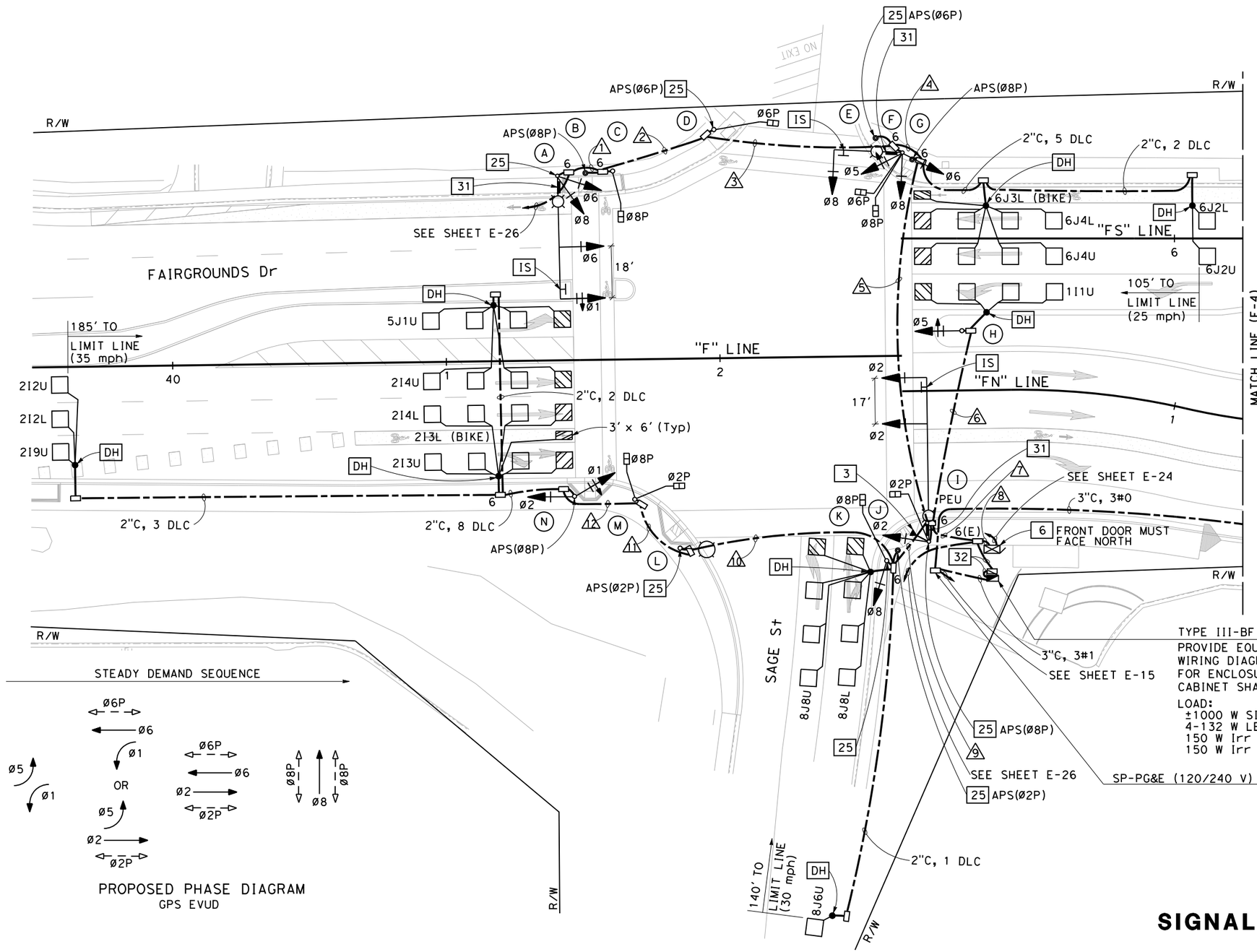
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE SHEET E-11 FOR SCHEDULES.
3. COORDINATE WITH PG&E FOR POLE NUMBER ON POLE WITH LIGHT.



TYPE III-BF SERVICE EQUIPMENT ENCLOSURE — 7
PROVIDE EQUIPMENT ITEMS (1) - (19) AND TWO (20) PER THE WIRING DIAGRAM ON SHEET ED-8. SEE CALTRANS RSP ES-2E FOR ENCLOSURE AND BASE DETAILS. FRONT DOOR OF CABINET SHALL FACE SOUTHWEST.
LOAD:
±1000 W SIGNAL (METERED)
4-132 W LED Lum (UNMETERED) (Rdwy 11)
150 W Irr (METERED) (ICC "F")
150 W Irr (METERED) (ICC "S")

SP-PG&E (120/240 V) SERVICE — 22

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

LOCATION 3

APPROVED FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING (CITY)

SCALE: 1" = 20'

E-10

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 11:49:47 AM

BORDER LAST REVISED 7/2/2010 | USERNAME => jnguyen | DGN FILE => 0400020584ua010 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0738 | PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

SCHEDULES: (FOR SHEET E-10)

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS — CONDUIT RUN NUMBER 1	2	3	4	5	6	7	8	9	10	11	12
No. 14 CONDUCTORS												
Ø1	3	3	3	3	3		6	6	3	3	3	3
Ø2							3	3	3	3	3	3
Ø5				3	3	3	6	6				
Ø6	3	3	3	3	3		3	3				
Ø8	3	3	3	3	3		6	6	3			
Ø2P							2	2	2	2	2	
Ø6P			2	2	2		2	2				
Ø8P		2	2	2	2		4	4	2	2	2	
APS(Ø2P)							2	2	2	2		
APS(Ø6P)			2	2	2		2	2				
APS(Ø8P)		2	2	2	2		4	4	2	2	2	2
PEU							3					
SPARES	3	3	3	3	3	3	6	6	3	3	3	3
TOTAL No. 14	12	16	20	23	23	6	49	46	20	17	15	11
No. 12 CONDUCTORS												
IISNS	2	2	2	2	2		2					
No. 10 CONDUCTORS												
IRRIGATION	2	2	2	2	2		2					
No. 8 CONDUCTORS												
LIGHTING	2	2	2	2	2		2		2	2		
SIGNAL NEUTRAL	1	1	1	1	1	1	2	2	1	1	1	1
TOTAL No. 8	3	3	3	3	3	1	4	2	3	3	1	1
No. 6 CONDUCTORS												
SIGNAL SERVICE								2				
DETECTOR CABLES (DLC)												
1I1U						1	1	1				
2I2U/2I2L							2	2	2	2	2	2
2I3U/2I3L							2	2	2	2	2	2
2I4U/2I4L							2	2	2	2	2	2
2I9U							1	1	1	1	1	1
5J1U							1	1	1	1	1	1
6J2U/6J2L					2		2	2				
6J3L					1		1	1				
6J4U/6J4L					2		2	2				
8J8U/8J8L							2	2	2			
8J6U							1	1	1			
TOTAL DETECTOR CABLES					5	1	17	17	11	8	8	8
GPS EVUC							1	1				
CONDUIT SIZE (INCHES)	2	2	3	3	3	3	2-4"	2-4"	4	4	3	3
NEW/EXISTING CONDUIT (N/E)	N	N	N	N	N	N	N	N	N	N	N	N
% FILL	16	19	10	10	15	3	11	10	11	9	13	12

NEW LED IISNS SCHEDULE

⊗	LETTER SIZE	PANEL SIZE	SIGN	MESSAGE
A	UPPER CASE: 8" LOWER CASE: 6"	6′	DOUBLE-SIDED	Sage St
F	UPPER CASE: 8" LOWER CASE: 6"	8′	DOUBLE-SIDED	Fairgrounds Dr
I	UPPER CASE: 8" LOWER CASE: 6"	6′	DOUBLE-SIDED	Sage St

NOTES:
1. CONTRACTOR MUST SUBMIT IISNS SPECIFICATION SUBMITTALS TO THE CITY FOR APPROVAL PRIOR TO ORDERING.
2. FONT MUST BE FHWA STANDARD ALPHABET HIGHWAY LETTER SERIES E, UNLESS OTHERWISE DIRECTED.

STANDARD AND EQUIPMENT SCHEDULE

⊗	STANDARD TYPE	SMA	LMA	Veh Sig Mtg Ø	MAST ARM	Ø	POLE	Ped Sig Ø	Mtg	APS Ø	ARROW	LED Lum	SPECIAL REQUIREMENTS *
A	26-4-100	45′	15′	1 6	MAT MAS	6 8	SV-2-TB					Rdwy 11	SEE NOTES [25] AND [31] ON SHEET E-10.
B	PBA POST									8	←		
C	1-A (7′)							8	TP-1-T				
D	1-A (7′)							6	TP-1-T	6	←		SEE NOTE [25] ON SHEET E-10.
E	PBA POST									6	←		SEE NOTE [25] ON SHEET E-10.
F	19-4-100	25′	12′	8	MAS	5 6 8	SV-3-TC	6 8	SP-2-T			Rdwy 11	SEE NOTE [31] ON SHEET E-10.
G	PBA POST									8	→		
H	1-A					5	TV-1-T						
I	61-5-100	60′	15′	2 2	MAS MAS	2	SV-1-T	2	SP-1-T	8	←	Rdwy 11	SEE NOTES [3], [25] AND [31] ON SHEET E-10. INSTALL PEU ON TOP OF POLE.
J	PBA POST									2	→		SEE NOTE [25] ON SHEET E-10.
K	1-A					8	TV-1-T	8	SP-1-T				SEE NOTE [25] ON SHEET E-10.
L	15TS		12′							2	←	Rdwy 11	SEE NOTE [25] ON SHEET E-10.
M	1-A (7′)							2 8	TP-2-T				
N	1-A					1 2	TV-2-T			8	→		

* SEE SIGN PLANS FOR SIGN DETAILS

SIGNAL AND LIGHTING (CITY)

LOCATION 3

E-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans®

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY / DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 TIME PLOTTED => 11:49:53 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

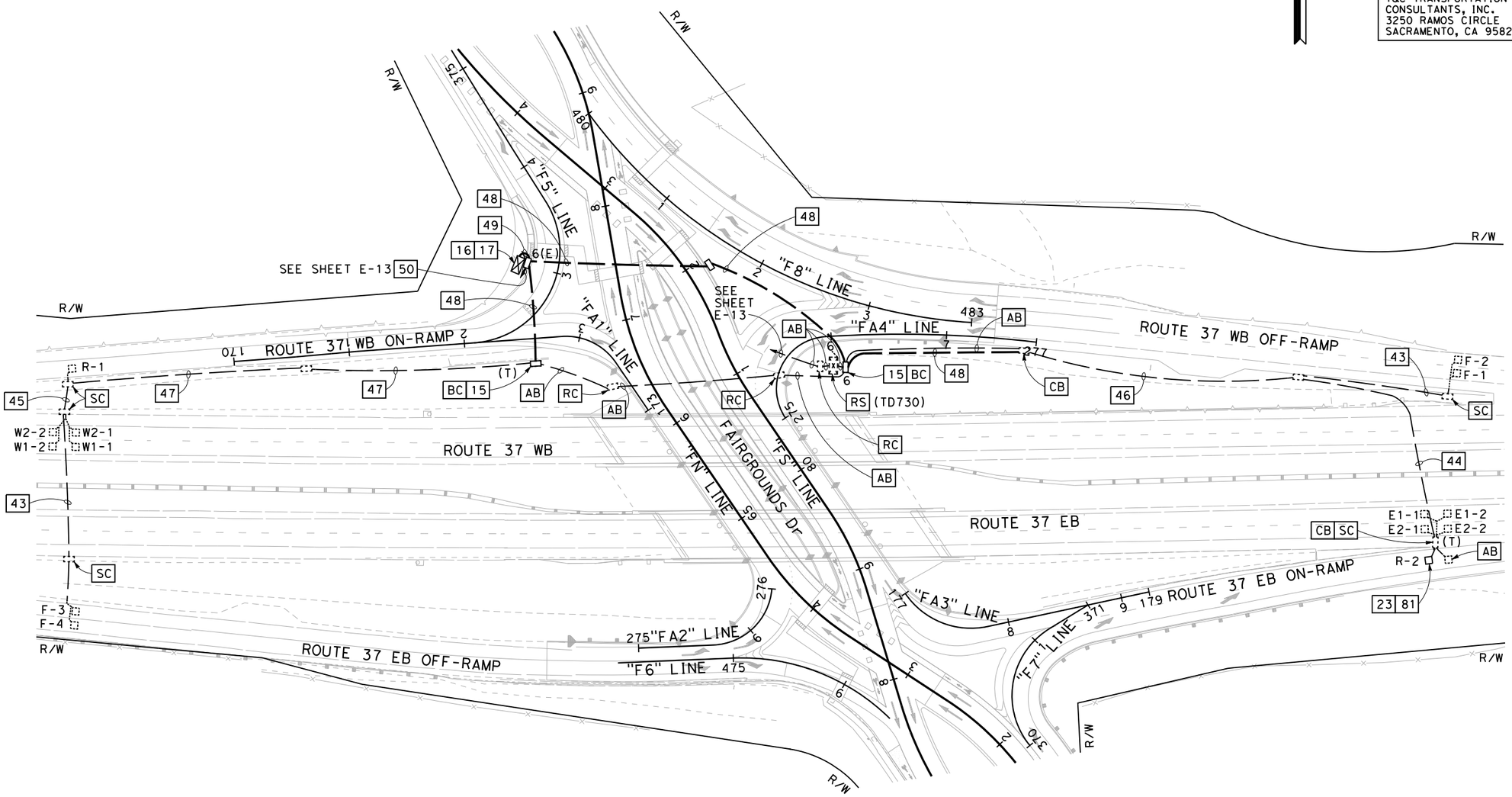
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORTATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING TRAFFIC MONITORING STATIONS

SCALE: 1" = 50'

E-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:49:57 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — 12-30-22 DATE

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

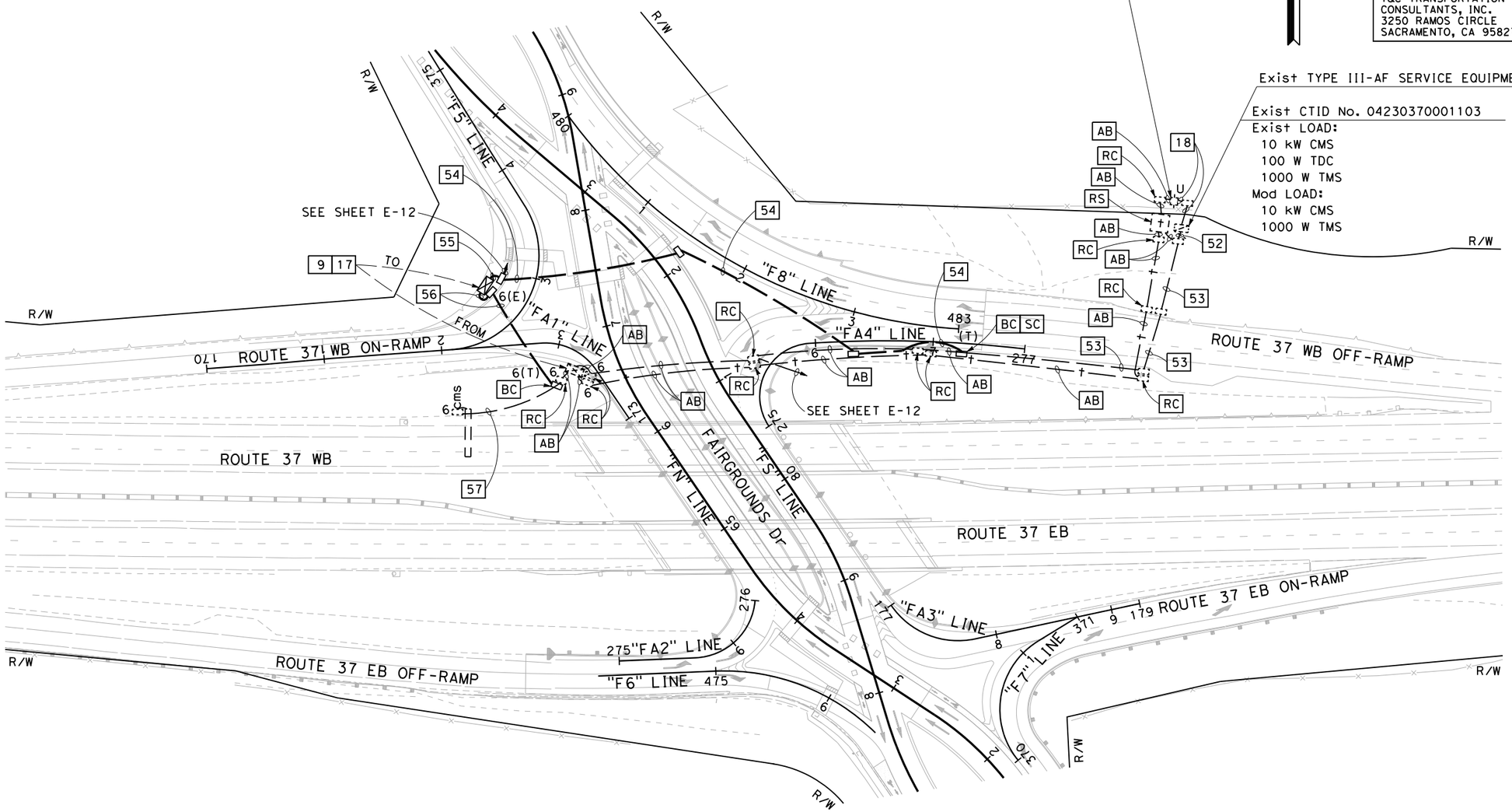
NOTE:

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

SYSTEM No. 23-037-011013
SP-PG&E (120/240 V) TYPE H SERVICE

Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (11013)

Exist CTID No. 04230370001103
Exist LOAD:
10 kW CMS
100 W TDC
1000 W TMS
Mod LOAD:
10 kW CMS
1000 W TMS



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

MODIFYING CHANGEABLE MESSAGE SIGN SYSTEMS

SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

E-13

REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY	CONSULTANT FUNCTIONAL SUPERVISOR
ANSON HUYNH	KIN Y. CHAN			DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 TIME PLOTTED => 11:50:25 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

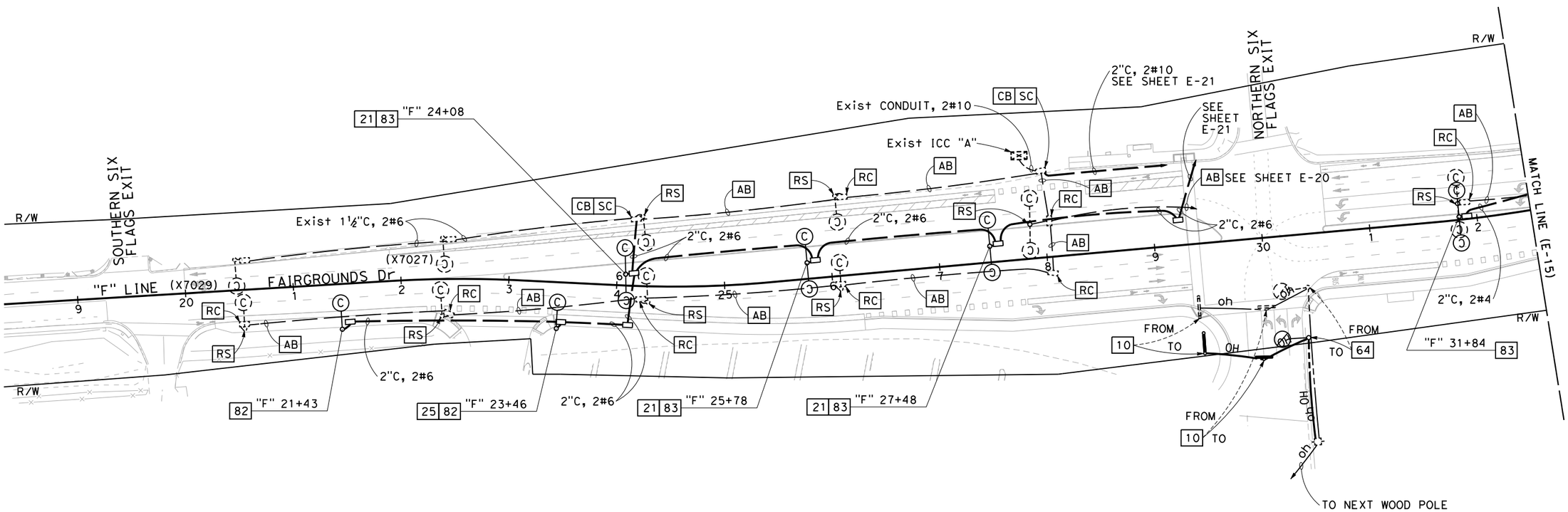
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE WITH PG&E FOR STREET LIGHT POLE NUMBER.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

LIGHTING (CITY STREET)

SCALE: 1" = 50'

E-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN

REVISED BY
DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 4:20:59 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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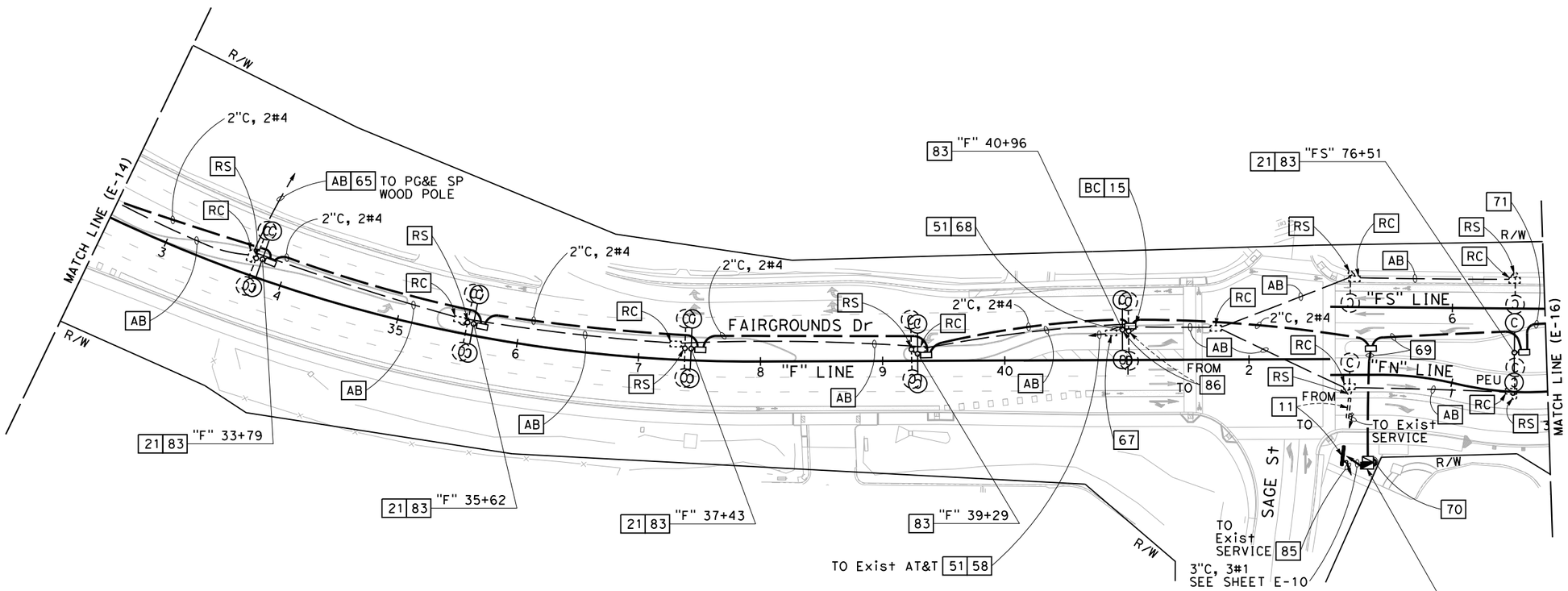
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE WITH PG&E FOR STREET LIGHT POLE NUMBER.



7 TYPE III-BF SERVICE EQUIPMENT ENCLOSURE
PROVIDE EQUIPMENT ITEMS (1) - (19) PER THE WIRING DIAGRAM ON SHEET ED-7. SEE CALTRANS RSP ES-2E FOR ENCLOSURE AND BASE DETAILS. FRONT DOOR OF CABINET SHALL FACE WEST.

LOAD:
14-54 W LED Lum (UNMETERED)
4-95 W LED DECORATIVE Lum (UNMETERED)
2-22 W LED SOFFIT Ltg (METERED)
12-15 W LED BARRIER Ltg (METERED)
150 W Irr (METERED) (ICC "B")

LIGHTING (CITY STREET)

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

E-15

REVISED BY	DATE REVISED
ANSON HUYNH	
KIN Y. CHAN	

CALCULATED-DESIGNED BY
CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 11:51:38 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER 12-30-22 DATE

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA

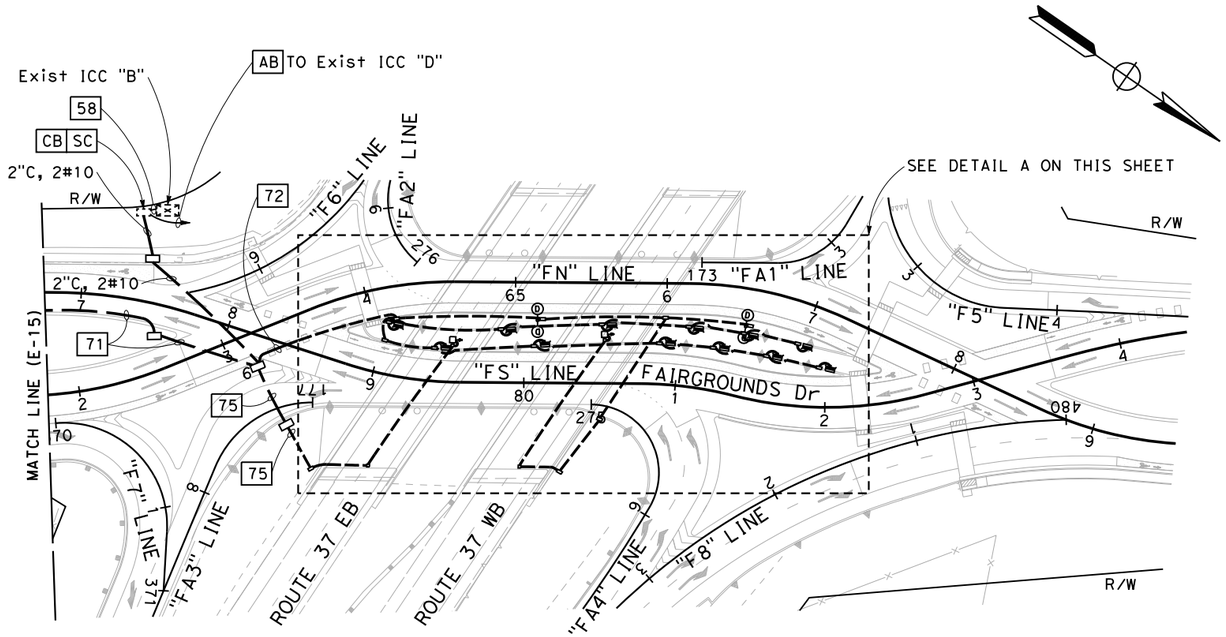
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

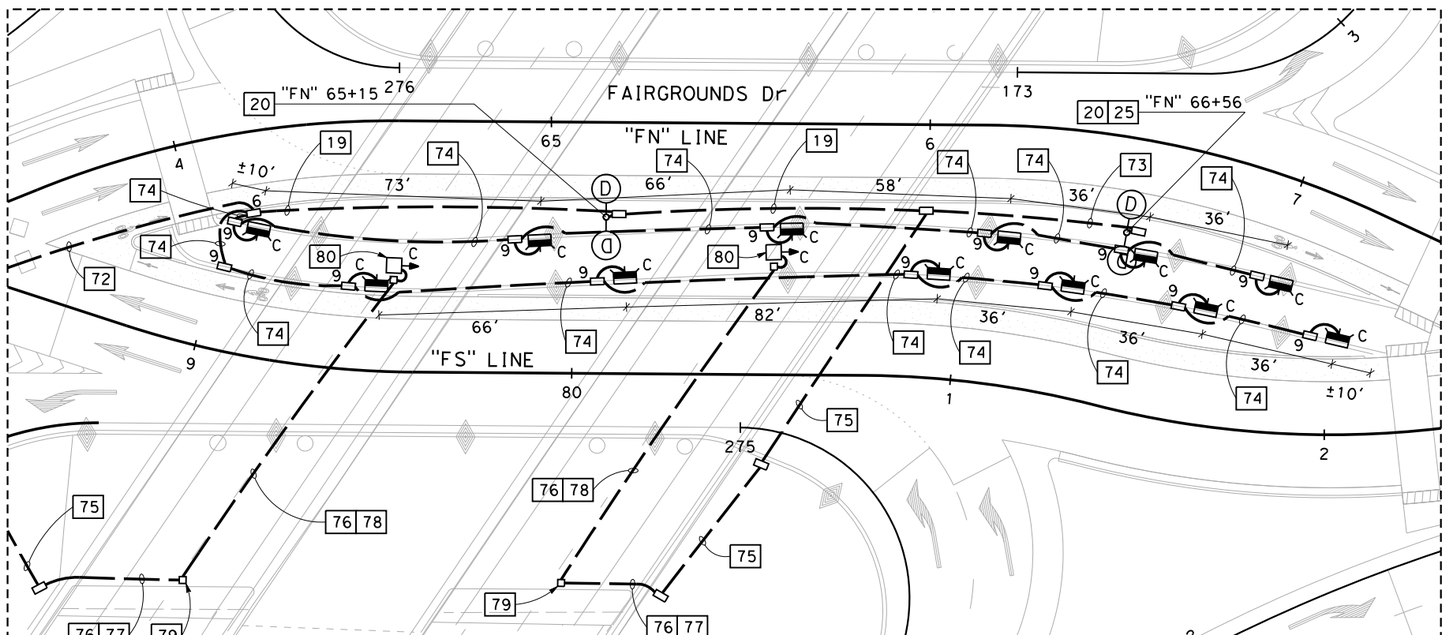
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE WITH PG&E FOR LIGHT NUMBER.





DETAIL A
SCALE: 1" = 20'

LIGHTING (CITY STREET)

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

E-16

REVISED BY	DATE REVISED
ANSON HUYNH	

CALCULATED-DESIGNED BY	CHECKED BY
KIN Y. CHAN	

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 11:51:50 AM

BORDER LAST REVISED 7/2/2010 | USERNAME => jnguyen | DGN FILE => 0400020584ua016 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0738 | PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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

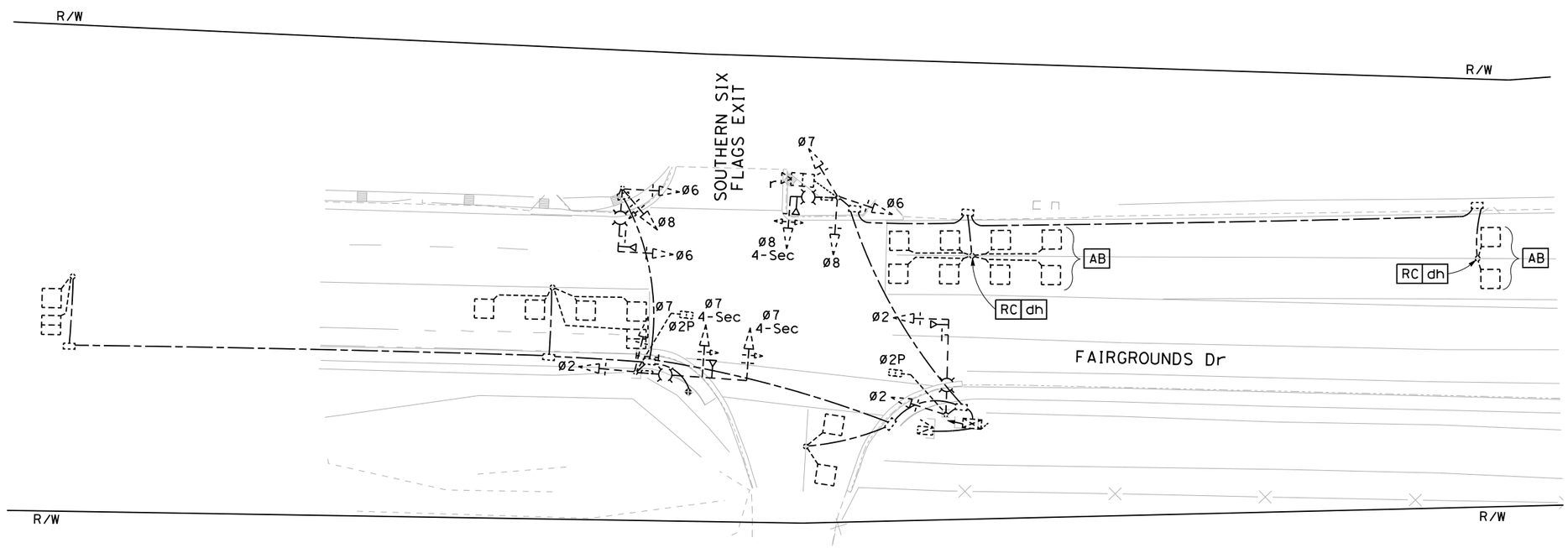
STEADY DEMAND SEQUENCE

Ø6 → Ø2 → Ø2P; Ø7; Ø8

= PERMISSIVE PHASE

EXISTING PHASE DIAGRAM

EVUDa = Ø2
EVUDb = Ø7
EVUDc = Ø6
EVUDd = Ø8



MODIFYING SIGNAL AND LIGHTING SYSTEMS (CITY)

SCALE: 1" = 20'

LOCATION 1 (EXISTING)

APPROVED FOR ELECTRICAL WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

E-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH

CHECKED BY: KIN Y. CHAN

REVISED BY

DATE REVISED

LAST REVISION 08-26-22

DATE PLOTTED => 12/2/2022
TIME PLOTTED => 11:51:59 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — 12-30-22 DATE

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE SHEET E-19 FOR SCHEDULES.

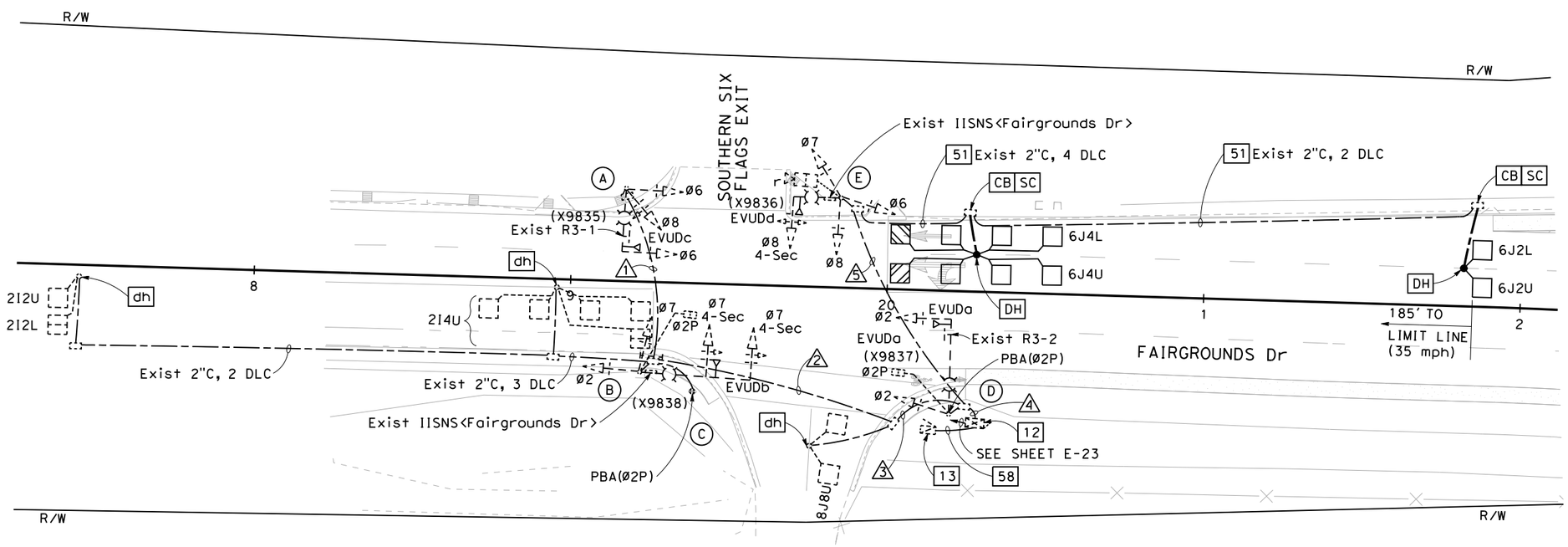
STEADY DEMAND SEQUENCE

Ø6 → Ø2 → Ø2P; Ø7; Ø8

= PERMISSIVE PHASE

EXISTING PHASE DIAGRAM
(NO CHANGE)

EVUDa = Ø2
EVUDb = Ø7
EVUDc = Ø6
EVUDd = Ø8



MODIFYING SIGNAL AND LIGHTING SYSTEMS (CITY)

SCALE: 1" = 20'

LOCATION 1

APPROVED FOR ELECTRICAL WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

E-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH

CHECKED BY: KIN Y. CHAN

REVISED BY / DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 TIME PLOTTED => 11:52:06 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

SCHEDULES: (FOR SHEET E-18)

Exist CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS							
	CONDUIT RUN NUMBER							
	1	2	3	4	5			
No. 14 CONDUCTORS								
Ø2		3	3	3				
Ø6	3	3	3	6	3			
Ø7		3	3	6	3			
Ø8	3	3	3	6	3			
Ø2P		2	2	2				
PBA(Ø2P)		2	2	2				
PEU				3				
SPARES	3	3	3	6	3			
TOTAL No. 14	9	19	19	34	12			
No. 12 CONDUCTORS								
IISNS		2	2	2	2			
No. 8 CONDUCTORS								
LIGHTING	2	2	2	2	2			
SIGNAL NEUTRAL	1	1	1	2	1			
TOTAL No. 8	3	3	3	4	3			
DETECTOR CABLES (DLC)								
2I2U/2I2L		2	2	2				
2I4U		1	1	1				
6J4U/6J4L				2	2			
6J2U/6J2L				2	2			
8J8U			1	1				
TOTAL DETECTOR CABLES		3	4	8	4			
RADAR DETECTION CABLE FOR Ø7				1	1			
EVUC	1	2	2	4	1			
CONDUIT SIZE (INCHES)	3	3	3	3	3			
% FILL	6	13	14	28	14			

Exist STANDARD AND EQUIPMENT SCHEDULE

	STANDARD			Veh Sig Mtg				Ped Sig		PBA		LED Lum	SPECIAL REQUIREMENTS
⊗	TYPE	SMA	LMA	Ø	MAST ARM	Ø	POLE	Ø	Mtg	Ø	ARROW		
A	Exist TYPE 19A	20′	15′	6	MAS	6 8	SV-2-TD					87 W	ALL Exist EQUIPMENT TO REMAIN.
B	Exist 26A-4-80	35′	15′	7 7	MAS-4B MAS-4B	2 7	SV-2-TA	2	SP-1-T			87 W	ALL Exist EQUIPMENT TO REMAIN.
C	Exist PBA POST									2	←		ALL Exist EQUIPMENT TO REMAIN.
D	Exist 19-2-80	30′	15′	2	MAS	2	SV-1-T	2	SP-1-T	2	→	87 W	ALL Exist EQUIPMENT TO REMAIN.
E	Exist 17-3-80	15′	12′	8	Mod MAS-4A	6 7 8	SV-3-TB					87 W	ALL Exist EQUIPMENT TO REMAIN.

MODIFYING SIGNAL AND LIGHTING SYSTEMS (CITY)

LOCATION 1

E-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: KIN Y. CHAN
CHECKED BY
REVISED BY: ANSON HUYNH
DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 11:52:12 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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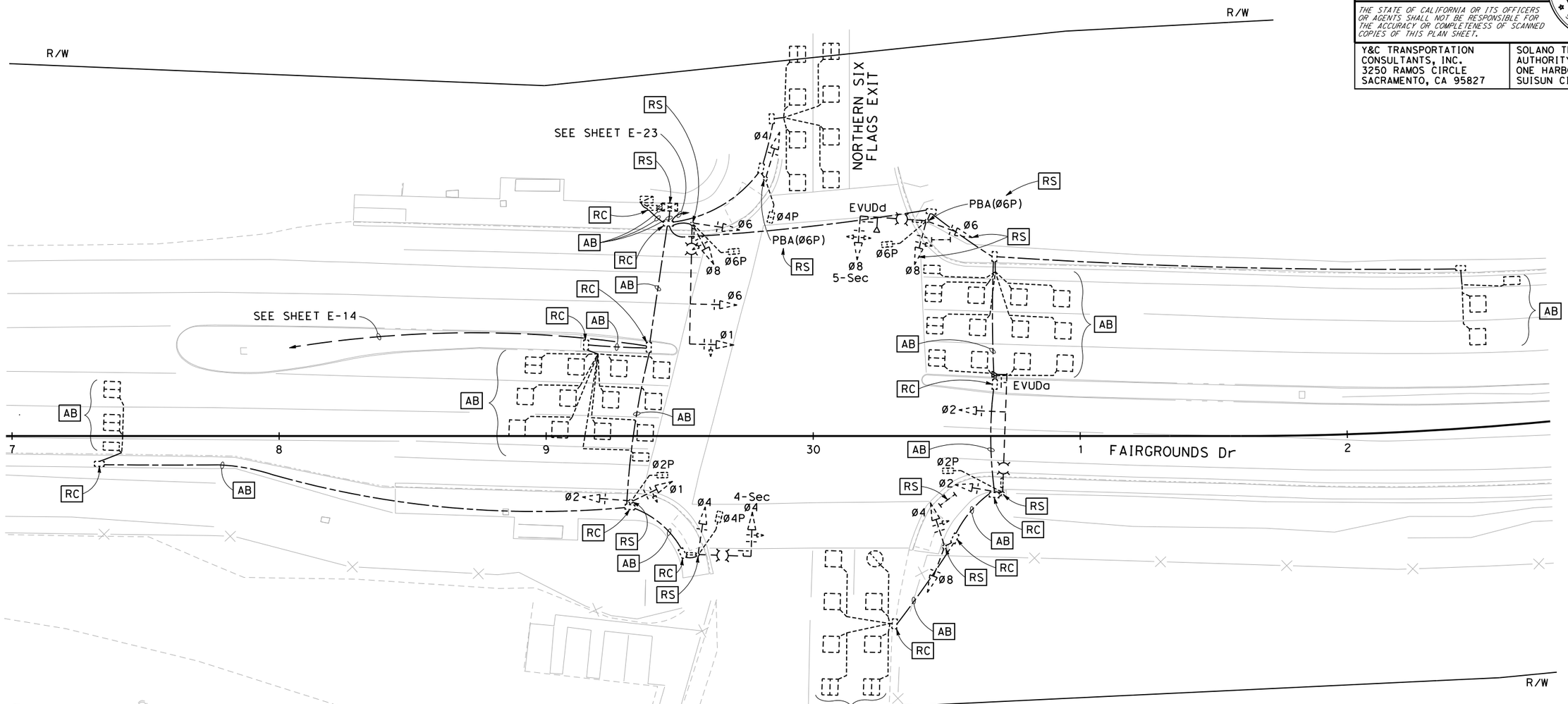
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

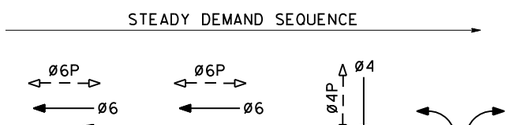
SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



STEADY DEMAND SEQUENCE



EXISTING PHASE DIAGRAM

EVUDa = Ø2
EVUDd = Ø8

NOTE: Ø4 AND Ø8 MUST BE EXCLUSIVE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

MODIFYING SIGNAL AND LIGHTING SYSTEMS (CITY)

SCALE: 1" = 20'

LOCATION 2 (EXISTING)

APPROVED FOR ELECTRICAL WORK ONLY

E-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:52:16 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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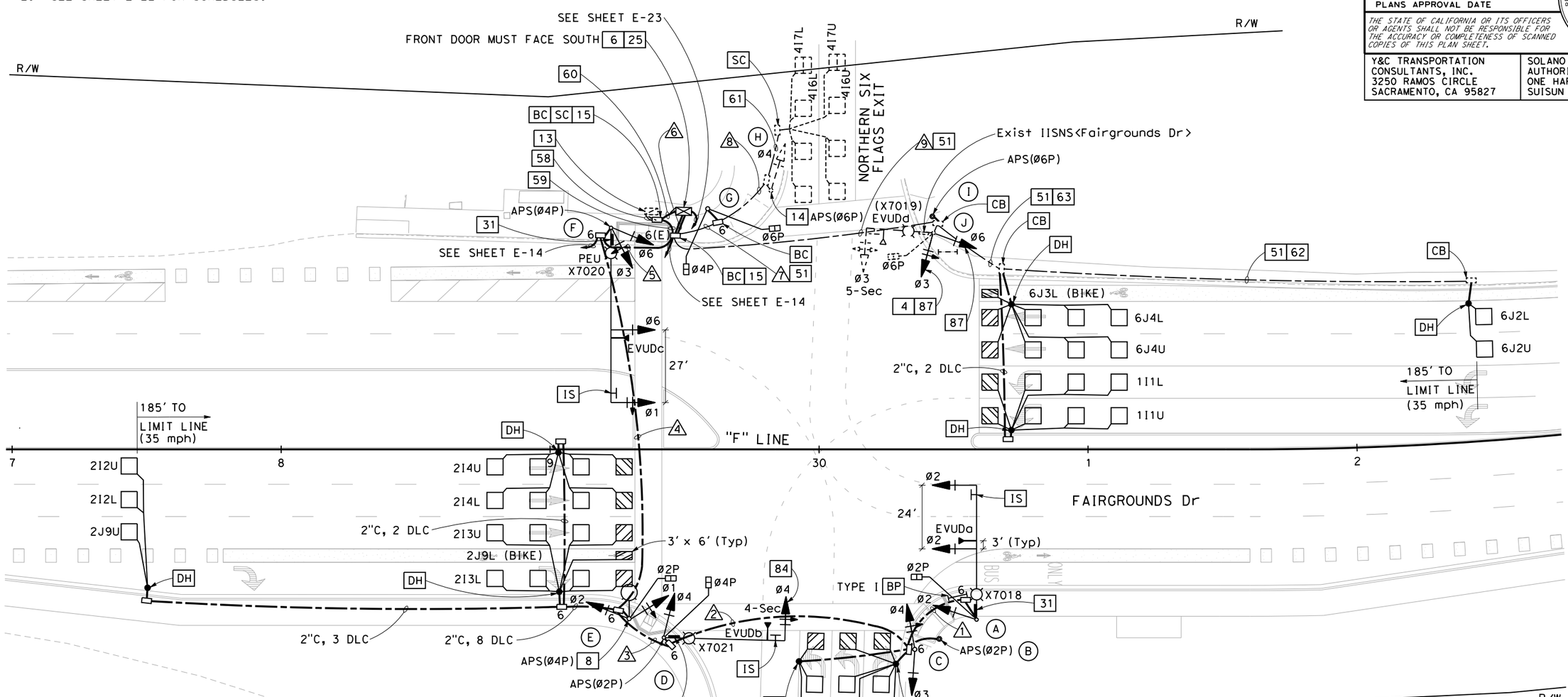
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

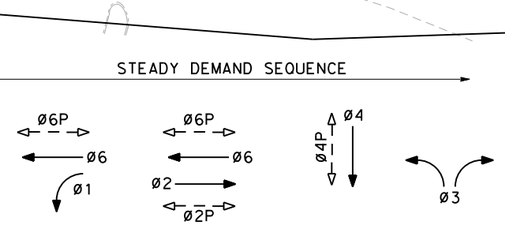
SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE SHEET E-22 FOR SCHEDULES.

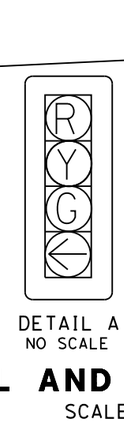


STEADY DEMAND SEQUENCE



PROPOSED PHASE DIAGRAM

EVUDa = Ø2
EVUDb = Ø4
EVUDc = Ø1 + Ø6
EVUDd = Ø3



DETAIL A
NO SCALE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

MODIFYING SIGNAL AND LIGHTING SYSTEMS (CITY)

SCALE: 1" = 20'

LOCATION 2

APPROVED FOR ELECTRICAL WORK ONLY

E-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:52:20 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER 12-30-22 DATE

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

SCHEDULES: (FOR SHEET E-21)

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS — CONDUIT RUN NUMBER 1	2	3	4	5	6	7	8	9
No. 14 CONDUCTORS									
Ø1				3	3	3			
Ø2	3	3	3	3	3	3			
Ø3		3	3	3	3	8			5
Ø4		3	3	3	3	6	3	3	
Ø6					3	6			3
Ø2P	2	2	2	2	2	2			
Ø4P			2	2	2	4	2		
Ø6P						4	2		2
APS(Ø2P)		2	2	2	2	2			
APS(Ø4P)				2	2	2			
APS(Ø6P)						4	2	2	2
PEU					3				
SPARES	3	3	3	3	3	9	3	3	3
TOTAL No. 14	8	16	18	23	29	53	12	8	15
No. 12 CONDUCTORS									
IISNS	2	2	2	2	2				2
No. 10 CONDUCTORS									
IRRIGATION					2				
No. 8 CONDUCTORS									
LIGHTING	2	2	2	2	2				2
SIGNAL NEUTRAL	1	1	1	1	1	3	1	1	1
TOTAL No. 8	3	3	3	3	3	3	1	1	3
DETECTOR CABLES (DLC)									
1I1U/1I1L						2			2
2I2U/2I2L				2	2	2			
2I3U/2I3L				2	2	2			
2I4U/2I4L				2	2	2			
2J9U/2J9L				2	2	2			
3J8U		1	1	1	1	1			
3I9U/3I9L		2	2	2	2	2			
4I6U/4I6L						2	2	2	
4I7U/4I7L						2	2	2	
6J2U/6J2L						2			2
6J3L						1			1
6J4U/6J4L						2			2
TOTAL DETECTOR CABLES		3	3	11	11	22	4	4	7
EVUC	1	1	2	2	3	4			1
CONDUIT SIZE (INCHES)	3	3	3	4	4	2-4"	1½	1½	3½
NEW/EXISTING CONDUIT (N/E)	N	N	N	N	N	N	E	E	E
% FILL	6	12	13	13	15	13	29	25	11

NOTE: REMOVE ALL Exist CONDUCTORS/CABLES.
ADD ALL NEW CONDUCTORS/CABLES, UNLESS OTHERWISE NOTED.

NEW LED IISNS SCHEDULE

⊗	LETTER SIZE	PANEL SIZE	SIGN	MESSAGE — FACE INTERSECTION	MESSAGE — FACE OUT
A	UPPER CASE: 8" LOWER CASE: 6"	8′	DOUBLE-SIDED	Fairgrounds →	← Fairgrounds
D	UPPER CASE: 8" LOWER CASE: 6"	8′	DOUBLE-SIDED	Fairgrounds Dr	Fairgrounds Dr
F	UPPER CASE: 8" LOWER CASE: 6"	8′	DOUBLE-SIDED	← Fairgrounds	Fairgrounds →

NOTES:
1. CONTRACTOR MUST SUBMIT IISNS SPECIFICATION SUBMITTALS TO THE CITY FOR APPROVAL PRIOR TO ORDERING.
2. FONT MUST BE FHWA STANDARD ALPHABET HIGHWAY LETTER SERIES E, UNLESS OTHERWISE DIRECTED.

STANDARD AND EQUIPMENT SCHEDULE

⊗	STANDARD — TYPE	SMA	LMA	Veh Sig Mtg — Ø	MAST ARM	Ø	POLE	Ped Sig — Ø	Mtg	APS — Ø	ARROW	LED Lum	SPECIAL REQUIREMENTS *
A	29-5-100	50′	15′	2 2	MAS MAS	2	SV-1-T	2	SP-1-T			Rdwy 11	SEE NOTE 31 ON SHEET E-21. INSTALL EVUDa ON SMA.
B	PBA POST									2	→		
C	1-A					3 4	TV-2-T						
D	26-4-100	45′	15′	4	MAS-4B	4	SV-1-T	4	SP-1-T	2	←	Rdwy 11	SEE NOTES 31 AND 84 ON SHEET E-21. INSTALL EVUDb ON SMA.
E	15TS		15′			1 2	SV-2-TA	2	SP-1-T	4	→	Rdwy 11	
F	61-5-100	65′	15′	1 6	MAT MAS	3 6	SV-2-TB			4	←	Rdwy 11	SEE NOTE 31 ON SHEET E-21. INSTALL EVUDc ON SMA AND PEU ON TOP OF POLE.
G	1-A (7′)							4 6	TP-2-T				
H	Exist 1-A					4	TV-1-T			+ 6	+ →		SEE NOTE 14 ON SHEET E-21.
I	PBA POST									6	→		
J	Exist 19-2-70	25′	15′	3	MAS-5	3+ 6+	+ SV-2-TB	6	SP-1-T			Rdwy 11	SEE NOTES 4 AND 87 ON SHEET E-21.

* SEE SIGN PLANS FOR SIGN DETAILS

\+ INSTALL NEW EQUIPMENT TO Exist SIGNAL STANDARD

MODIFYING SIGNAL AND LIGHTING SYSTEMS (CITY)

LOCATION 2

E-22

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 TIME PLOTTED => 11:52:25 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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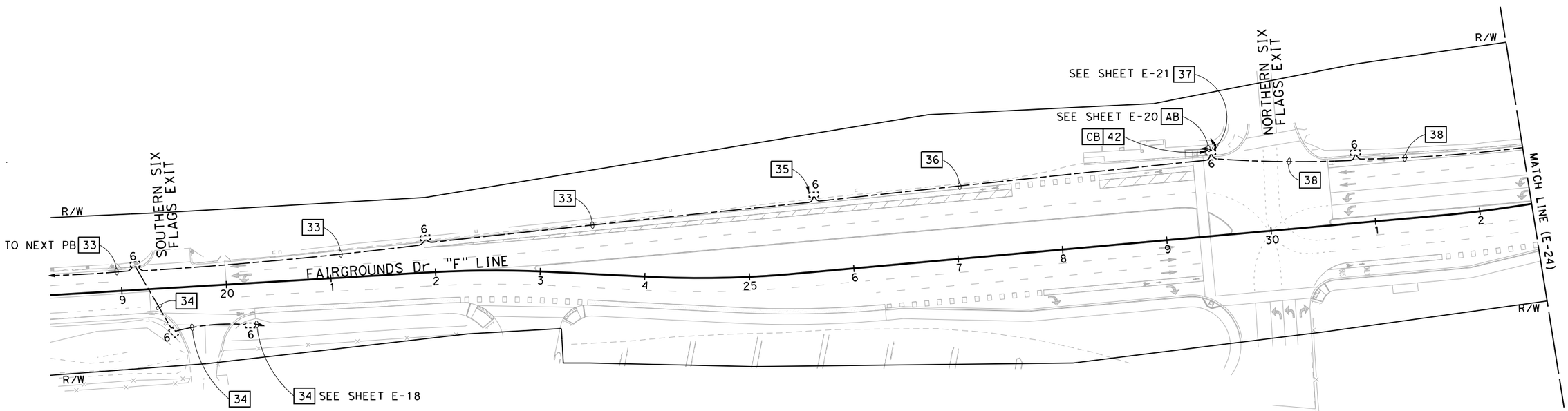
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

INTERCONNECTION CONDUIT AND CABLE (CITY)

SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

E-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN

REVISED BY
DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 11:52:30 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

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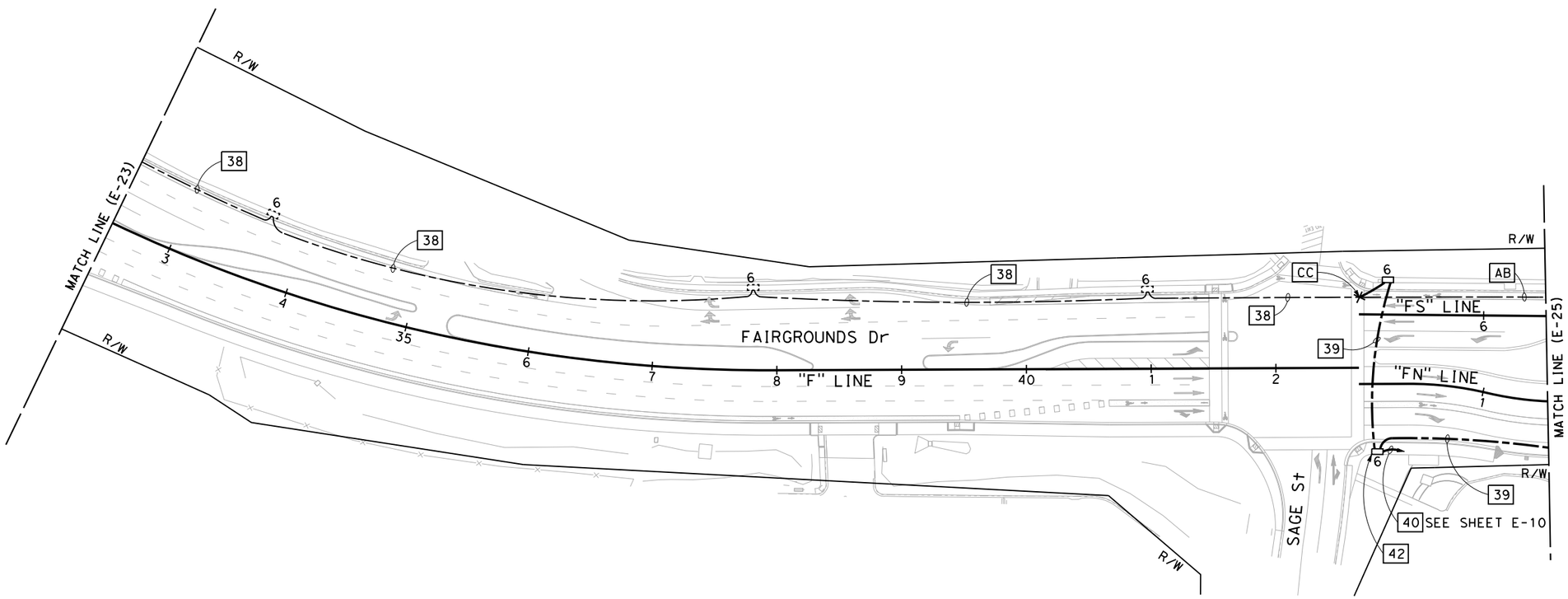

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

INTERCONNECTION CONDUIT AND CABLE (CITY)

SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

E-24

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH

CHECKED BY: KIN Y. CHAN

REVISED BY

DATE REVISED

LAST REVISION 08-26-22

DATE PLOTTED => 12/2/2022
TIME PLOTTED => 11:52:36 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — 12-30-22 DATE

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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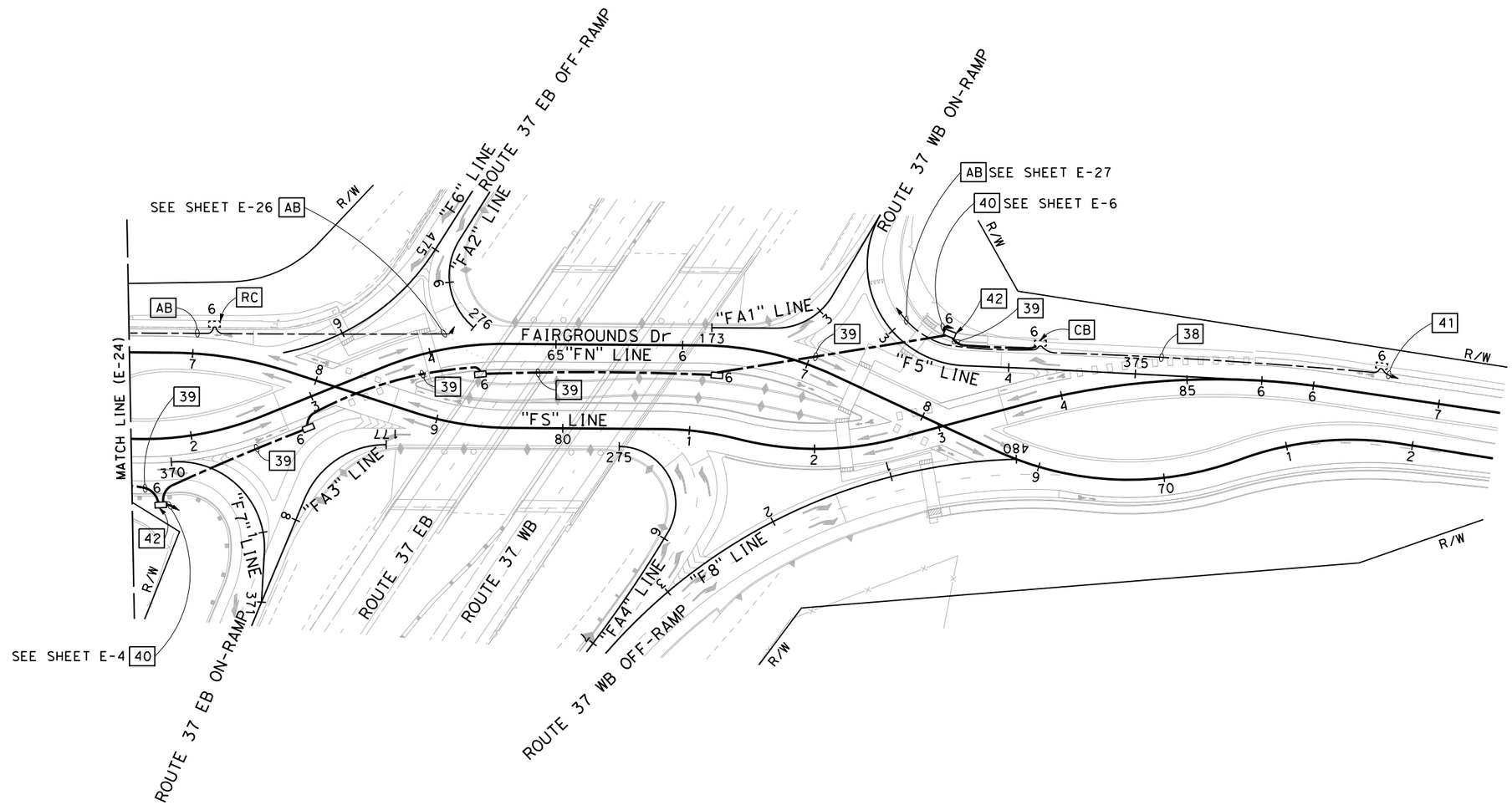

INTERCONNECTION CONDUIT AND CABLE (CITY)

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

E-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH

CHECKED BY: KIN Y. CHAN

REVISED BY / DATE REVISED

LAST REVISION: 08-26-22

DATE PLOTTED => 12/2/2022
TIME PLOTTED => 11:52:47 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

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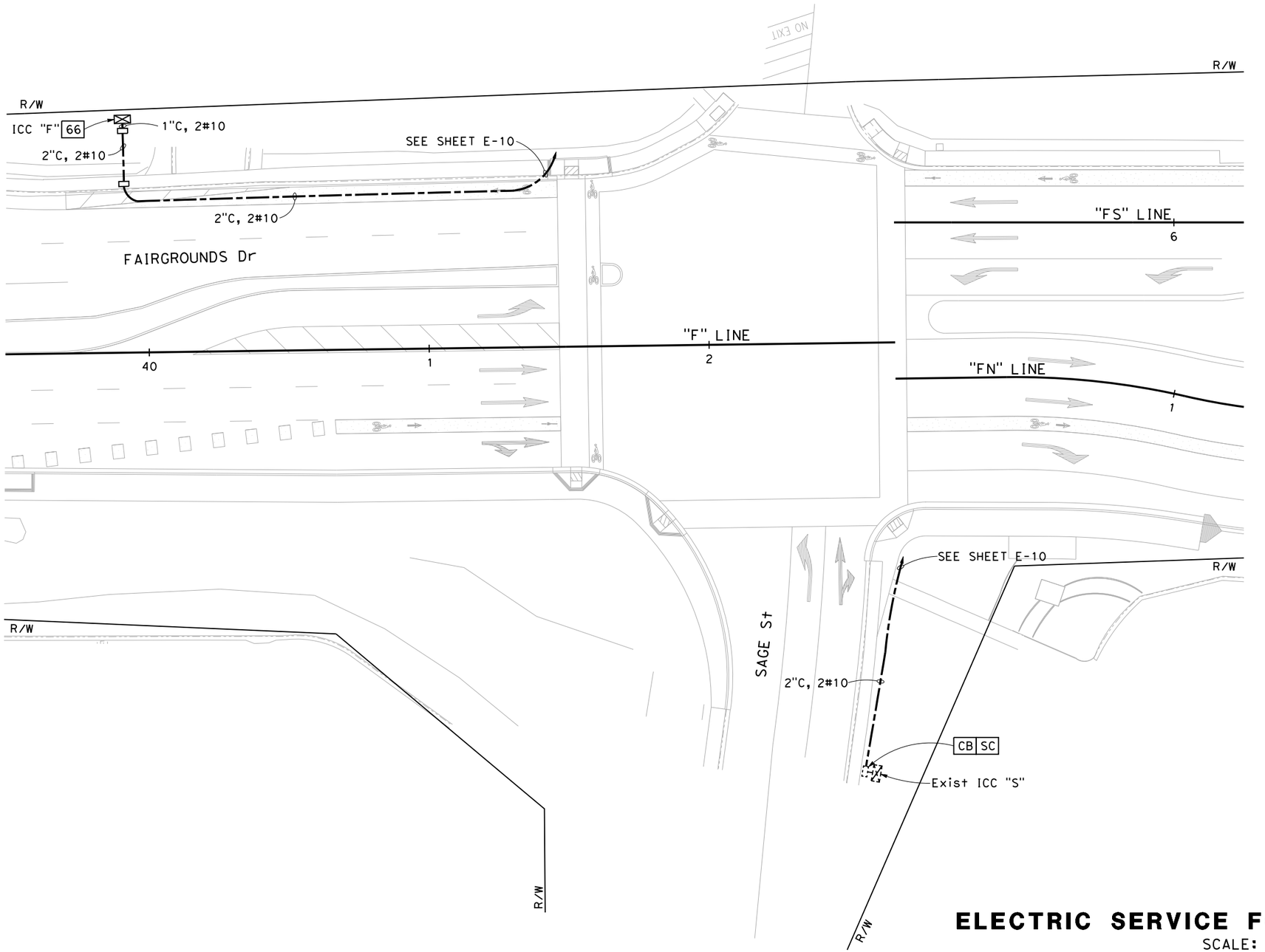
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



ELECTRIC SERVICE FOR IRRIGATION (CITY)

SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

E-26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 4:20:29 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

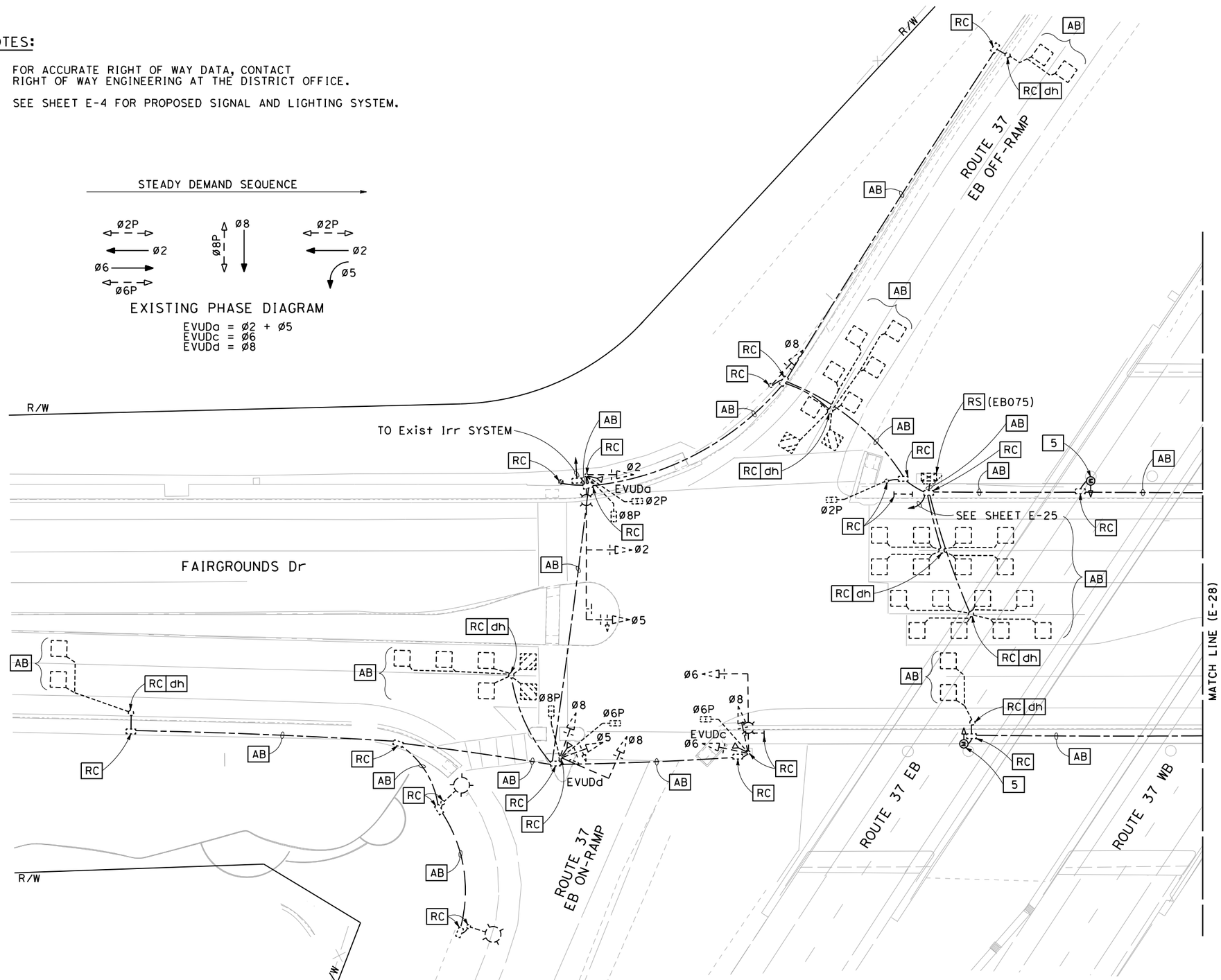
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE SHEET E-4 FOR PROPOSED SIGNAL AND LIGHTING SYSTEM.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

LOCATION 4 (EXISTING)

APPROVED FOR ELECTRICAL WORK ONLY

REMOVING SIGNAL AND LIGHTING SYSTEMS

SCALE: 1" = 20'

E-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:53:00 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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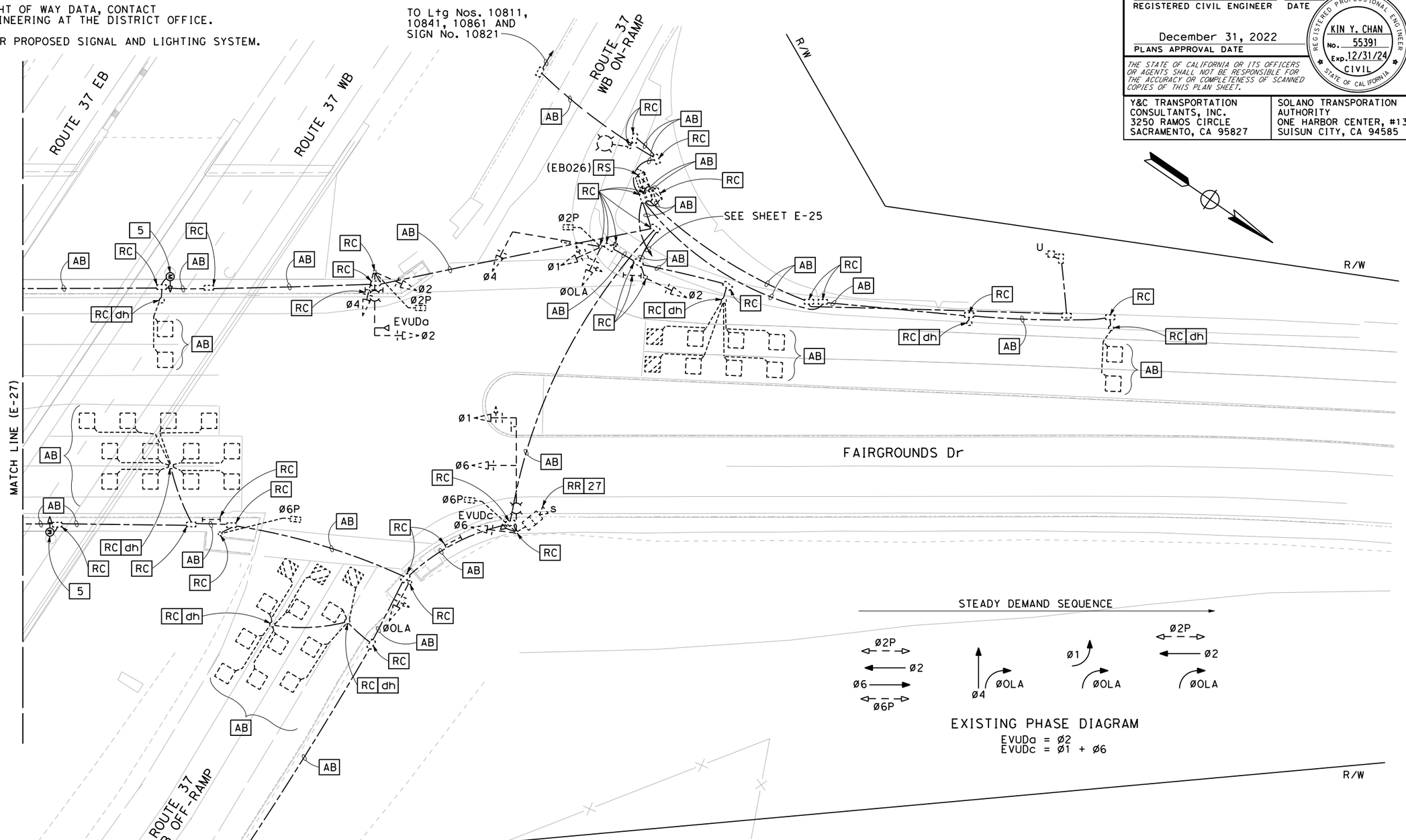
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE SHEET E-6 FOR PROPOSED SIGNAL AND LIGHTING SYSTEM.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

LOCATION 5 (EXISTING)

APPROVED FOR ELECTRICAL WORK ONLY

REMOVING SIGNAL AND LIGHTING SYSTEMS

SCALE: 1" = 20'

E-28

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: KIN Y. CHAN
CHECKED BY: ANSON HUYNH
REVISED BY / DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:53:04 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORTATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTES: (FOR SHEETS E-31 TO E-75)

1. THE CONTRACTOR MUST MAINTAIN THE OPERATION OF THE EXISTING ELECTRICAL EQUIPMENT AT ALL TIMES DURING CONSTRUCTION.
2. THE CONTRACTOR MUST MAINTAIN PEDESTRIAN AND DRIVEWAY ACCESSES AS REQUIRED UNLESS OTHERWISE NOTED ON THE STAGE CONSTRUCTION PLANS.
3. TEMPORARY ELECTRICAL EQUIPMENT, WHEN NO LONGER REQUIRED FOR STAGE CONSTRUCTION, MUST BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE ENGINEER, EXCEPT LOOP DETECTORS AND CONDUITS WHICH SHALL BE ABANDONED.
4. TEMPORARY EQUIPMENT SHOWN ON THESE PLANS MUST BE INSTALLED AND OPERATIONAL PRIOR TO BEGINNING OF EACH STAGE OF CONSTRUCTION AND MAINTAINED IN EFFECTIVE OPERATION THROUGHOUT THAT STAGE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR MUST BE RESPONSIBLE TO PROVIDE PROTECTION FOR ALL TEMPORARY EQUIPMENT SUCH AS K-RAIL OR ACCEPTABLE METHOD BY THE ENGINEER.
6. THE CONTRACTOR MUST VERIFY PERMANENT ELECTRICAL EQUIPMENT LOCATIONS PRIOR TO INSTALLING TEMPORARY ELECTRICAL EQUIPMENT TO AVOID CONFLICT BETWEEN PERMANENT AND TEMPORARY EQUIPMENT.
7. TEMPORARY ELECTRICAL EQUIPMENT SHOWN ON THESE PLANS ARE ON APPROXIMATE LOCATION. EXACT LOCATION MAY NEED TO BE ADJUSTED TO SUIT THE FIELD CONDITION OR AS DIRECTED BY THE ENGINEER.
8. A GROUNDING ELECTRODE MUST BE INSTALLED IN THE PULL BOX ADJACENT TO WOOD POLES AND BOND TO RIGID METAL CONDUIT, UNLESS OTHERWISE NOTED.
9. CONDUIT MUST BE 2" (TYPE 1) BETWEEN TEMPORARY WOOD POLE AND ADJACENT PULL BOX, UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR WILL BE RESPONSIBLE TO UTILIZE TEMPORARY LIGHT UNITS AT EACH LOCATION TO ALLOW COMPLETION OF WORK WITHIN STAGED AREA DURING MOVEMENT TO NEXT STAGE.

LEGEND: (FOR SHEETS E-31 TO E-75)

101 INSTALL TEMPORARY WOOD POLE WITH CONDUCTORS/CABLES, CONDUIT RISER AND OTHER EQUIPMENT AS INDICATED ON THE PLANS AND STANDARDS.

102 INSTALL TEMPORARY WOOD POLE WITH CONDUCTORS/CABLES, CONDUIT RISER, 12' LMA UNLESS OTHERWISE NOTED, Rdwy 1 LED Lum AND OTHER EQUIPMENT AS INDICATED ON THE PLANS AND STANDARDS.

103 INSTALL TEMPORARY WOOD POLE WITH CONDUCTORS/CABLES, CONDUIT RISER, SIGNAL EQUIPMENT AND OTHER EQUIPMENT AS INDICATED ON THE PLANS AND STANDARDS.

104 NSTALL TEMPORARY WOOD POLE WITH CONDUCTORS/CABLES, CONDUIT RISER, 12' LMA UNLESS OTHERWISE NOTED, Rdwy 1 LED Lum, SIGNAL EQUIPMENT AND OTHER EQUIPMENT AS INDICATED ON THE PLANS AND STANDARDS.

105 INSTALL OVERHEAD MESSENGER WIRE WITH CONDUCTORS AS INDICATED ON THE PLAN.

106 Exist OVERHEAD MESSENGER WIRE. PROVIDE CONDUCTORS/CABLES AS INDICATED ON THE PLAN.

107 INSTALL OVERHEAD TETHER WIRE.

108 Exist OVERHEAD TETHER WIRE.

109 INSTALL VEHICLE SIGNAL HEAD ON TETHER WIRE.

110 INSTALL SIGN TO OVERHEAD TETHER WIRE.

111 INSTALL VIDEO DETECTION CAMERA TO WOOD POLE.

112 REPROGRAM VIDEO DETECTION ZONE AS SHOWN ON THE PLAN.

113 PROTECT Exist EQUIPMENT IN PLACE DURING STAGE CONSTRUCTION.

114 PROTECT Exist CONDUIT/CONDUCTORS IN PLACE DURING CONSTRUCTION.

115 Exist SERVICE CONDUIT AND CONDUCTORS.

116 Exist CONDUIT AND CONDUCTORS.

117 PERMANENT WORK. THIS WORK IS PART OF BID ITEM "SIGNAL AND LIGHTING SYSTEM". SEE SHEETS E-4 TO E-7 FOR DETAILS.

118 PERMANENT WORK. THIS WORK IS PART OF BID ITEM "MODIFYING TRAFFIC MONITORING STATIONS". SEE SHEET E-12 FOR DETAILS.

119 PERMANENT WORK. THIS WORK IS PART OF BID ITEM "MODIFYING CHANGEABLE MESSAGE SIGN SYSTEMS". SEE SHEET E-13 FOR DETAILS.

120 PERMANENT WORK. THIS WORK IS PART OF BID ITEM "LIGHTING (CITY STREET)". SEE SHEETS E-14 TO E-16 FOR DETAILS.

121 PERMANENT WORK. THIS WORK IS PART OF BID ITEM "MODIFYING SIGNAL AND LIGHTING (CITY)". SEE SHEETS E-17 TO E-22 FOR DETAILS.

122 PERMANENT WORK. THIS WORK IS PART OF BID ITEM "SIGNAL AND LIGHTING (CITY)". SEE SHEETS E-10 TO E-11 FOR DETAILS.

123 PERMANENT WORK. THIS WORK IS PART OF BID ITEM "REMOVING SIGNAL AND LIGHTING SYSTEMS". SEE SHEETS E-27 TO E-28 FOR DETAILS.

124 Exist Type III-AF SERVICE EQUIPMENT ENCLOSURE.

125 Exist MODEL 170 CONTROLLER ASSEMBLY WITH MODEL 334 CABINET.

126 Exist MODEL 2070E CONTROLLER ASSEMBLY WITH MODEL 332 CABINET AND BATTERY BACKUP CABINET.

127 Exist MODEL 170 CONTROLLER ASSEMBLY WITH MODEL 332 CABINET.

128 INSTALL SERVICE PULL BOX PER PG&E REQUIREMENTS.

129 CONTRACTOR MUST COORDINATE WITH PG&E FOR SERVICE CONNECTION.

130 3"C, PT, CONDUIT AND RISER PER PG&E REQUIREMENTS.

131 INSTALL DEPARTMENT-FURNISHED MODEL 2070E CONTROLLER ASSEMBLY WITH MODEL 332LS CABINET ON TEMPORARY WOOD PLATFORM. SEE SHEET ED-9 FOR TEMPORARY FOUNDATION DETAILS.

132 RL Exist CMS CONTROLLER ASSEMBLY TO TEMPORARY WOOD PLATFORM. FRONT DOOR SHALL FACE EAST. SEE SHEET ED-9 FOR TEMPORARY FOUNDATION DETAILS.

133 INSTALL DEPARTMENT-FURNISHED MODEL 2070E CONTROLLER ASSEMBLY IN MODEL 332LS CABINET WITH BBS COMPONENT. THE BBS CABINET AND BATTERIES MUST BE CONTRACTOR-FURNISHED. SEE PERMANENT WORK PLAN SHEETS FOR DETAILS.

134 FURNISH AND INSTALL TYPE III-AF METERED SERVICE EQUIPMENT ENCLOSURE.

135 FURNISH AND INSTALL MODEL 170 CONTROLLER ASSEMBLY WITH MODEL 332L CABINET ON TEMPORARY WOOD PLATFORM. SEE SHEET ED-9 FOR TEMPORARY FOUNDATION DETAILS.

136 FURNISH AND INSTALL TYPE III-BF METERED AND UNMETERED SERVICE EQUIPMENT ENCLOSURE.

137 RC Exist PULL BOX. INSTALL NEW PULL BOX AS INDICATED.

138 INSTALL CELLULAR DATA MODEM ASSEMBLY, ANTENNA, POWER SUPPLY, TERMINAL BLOCK AND ETHERNET SWITCH IN CABINET AS APPLICABLE. SEE SHEET ED-5 FOR DETAILS.

139 Exist 3"C, HARNESS #4 AND #5.
Exist 3"C, 2#2 AND 1#2/0 (240 V SERVICE AND NEUTRAL TO CMS).

140 Exist 3"C, 2#6 (120 V CMS CABINET), 2#2 AND 1#2/0 (240 V SERVICE AND NEUTRAL TO CMS).

ELECTRICAL NOTES AND LEGEND (TEMPORARY)

ELECTRICAL SYSTEMS

E-29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 12:33:15 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER 12-30-22 DATE

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

LEGEND: (FOR SHEETS E-31 TO E-75)

141 3"C, 2#6 (120 V CMS CABINET), 2#2 AND 1#2/0 (240 V SERVICE AND NEUTRAL TO CMS).

142 Exist 3"C, 2#6 (120 V TMS), 2#6 (120 V CMS CABINET), 2#2 AND 1#2/0 (240 V SERVICE AND NEUTRAL TO CMS), 2#12 (120 V TDC). RC 2#12.

143 Exist 3"C, 2#6 (120 V TMS), 2#6 (120 V CMS CABINET), 2#2 AND 1#2/0 (240 V SERVICE AND NEUTRAL TO CMS).

144 Exist 3"C, HARNESS #4 AND #5. PULL OUT AND REINSTALL Exist HARNESS #4 AND #5 TO NEW CONTROLLER ASSEMBLY. Exist 3"C, 2#2 AND 1#2/0. RC 2#2 AND 1#2/0. ADD 2#2 AND 1#2/0 (240 V SERVICE AND NEUTRAL TO CMS).

145 3"C, REINSTALL Exist HARNESS #4 AND #5. 3"C, 2#6 (120 V CMS CABINET).

146 RC WALL-MOUNTED LIGHT AND CONDUCTORS, DISCONNECT SERVICE, AND ABANDON CONDUIT.

147 REPROGRAM Exist CONTROLLER FOR PROPOSED PHASING AS SHOWN ON THE PLAN.

148 INSTALL VIDEO DETECTION CAMERA TO Exist SIGNAL STANDARD.

149 INSTALL VEHICLE SIGNAL HEAD AND MOUNTING TO Exist SIGNAL STANDARD.

150 INSTALL 12' LMA UNLESS OTHERWISE NOTED, Rdwy 1 LED Lum, SIGNAL EQUIPMENT AND OTHER EQUIPMENT AS REQUIRED ON Exist TEMPORARY WOOD POLE.

151 Exist 3"C, 1 SIC. RC 1 SIC. ADD 1 SIC.

152 PULL BACK Exist 1 SIC FROM Exist CONTROLLER CABINET AT FAIRGROUNDS Dr/ROUTE 37 EB OFF-RAMP TO THIS PULL BOX. REINSTALL Exist 1 SIC FROM THIS PULL BOX TO NEW CONTROLLER CABINET AT FAIRGROUNDS Dr/SAGE St IN NEW AND Exist CONDUITS AS INDICATED.

153 Exist 3"C, REINSTALL Exist 1 SIC.

154 3"C, REINSTALL Exist 1 SIC.

155 Exist 3"C, 1 SIC. RC 1 SIC. ADD 1 SIC TO Exist CONTROLLER CABINET AT FAIRGROUNDS Dr/GATEWAY Dr (+/- 1100').

156 2"C, 2#6 (120 V Sig), 2#8 (240 V Ltg), 2#10 (120 V Irr), 3#14 (PEU).

157 Exist 2"C, 2#6 (120 V Sig), 2#8 (240 V Ltg), 2#10 (120 V Irr), 3#14 (PEU).

158 INSTALL PBA POST.

159 Exist 2"C, 1 SIC. RC 1 SIC. ADD 1 SIC.

160 INSTALL 4-SECTION VEHICLE SIGNAL HEAD. SEE DETAIL A ON SHEET E-47.

161 Exist 11#2"C, 2#6 (120 V Sig), 2#10 (240 V Ltg), 2#10 (120 V Irr), 2#14 (120 V IISNS), 1 SIC, 2 DLC. RC 2#10 (240 V Ltg), 2#14 (120 V IISNS), 2 DLC. ADD 2#8 (240 V Ltg).

162 Exist 1½"C, 2#6 (120 V Sig), 2#10 (240 V Ltg), 2#10 (120 V Irr), 2#14 (120 V IISNS), 1 SIC. RC 2#10 (240 V Ltg), 2#14 (120 V IISNS). ADD 2#8 (240 V Ltg).

163 Exist 3"C, 4#6 (120 V Sig), 2#6 (240 V Ltg), 2#8 (240 V SIGN Ltg), 2#10 (120 V Irr), 2#14 (120 V IISNS), 3#14 (PEU). RC 2#14 (120 V IISNS).

164 Exist 1½"C, 3#2/0 (SERVICE).

165 INSTALL EQUIPMENT OUT OF CLEAR RECOVERY ZONE FOR STAGES 2 AND 3a.

166 INSTALL VIDEO DETECTION CONTROL UNIT IN CABINET.

167 2"C, 2#6 (120 V Sig), 2#6 (240 V Ltg), 2#8 (240 V SIGN Ltg), 3#14 (PEU).

168 Exist 2"C, 2#6 (120 V Sig), 2#6 (240 V Ltg), 2#8 (240 V SIGN Ltg), 3#14 (PEU).

169 TEMPORARY CONNECTION. SEE TYPICAL OVERHEAD DROP INSTALLATION DETAIL ON SHEET ED-9.

170 INSTALL VEHICLE SIGNAL HEAD TO Exist WOOD POLE.

171 Exist 2"C, 2#6 (120 V STREET Ltg), 2#8 (120 V Ltg), 2#10 (Irr), 2#12 (120 V IISNS), 3#14 (PEU).

172 Exist 3"C, 19#14, 3#8, 2#12, 2#6 (120 V Ltg), 2#10 (120 V Irr), 6 DLC. RC 19#14, 3#8, 2#12, 2 DLC.

173 Exist 3"C, 19#14, 3#8, 2#12, 6 DLC. RC 19#14, 3#8, 2#12, 4 DLC.

174 Exist 3"C, 19#14, 3#8, 2#12, 10 DLC. RC 19#14, 3#8, 2#12, 5 DLC.

175 Exist 3"C, 2#6, 2#10, 4 DLC. RC 2#6, 2#10.

176 Exist 2"C, 2#6, 2#8 (120 V Ltg), 2#10, 2#12 (120 V IISNS), 3#14 (PEU). RC 2#6, 2#10.

177 2"C, 2#6 (120 V Sig), 2#8 (120 V Ltg), 3#14 (PEU).

178 3"C, 3#1 (SERVICE).

179 Exist 3"C, 3#1 (SERVICE).

180 Exist TYPE III-BF METERED AND UNMETERED SERVICE EQUIPMENT ENCLOSURE.

181 Exist 2"C, 2#6 (120 V Sig), 2#8 (120 V Ltg), 3#14 (PEU).

182 TEMPORARY WOOD POLE TO BE INSTALLED PER PG&E REQUIREMENT.

183 Exist SERVICE CONDUCTORS.

184 Exist MODEL 2070E CONTROLLER ASSEMBLY WITH MODEL 332 CABINET.

185 3"C, 3#0 (SERVICE).

186 Exist 3"C, 3#0 (SERVICE).

187 3"C, DEPARTMENT-FURNISHED HARNESS #4 AND #5. 3"C, 2#2 AND 1#2/0 (240 V SERVICE AND NEUTRAL TO CMS), 2#6 (120 V CMS CABINET).

ELECTRICAL NOTES AND LEGEND (TEMPORARY)

ELECTRICAL SYSTEMS

E-30

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 4:20:03 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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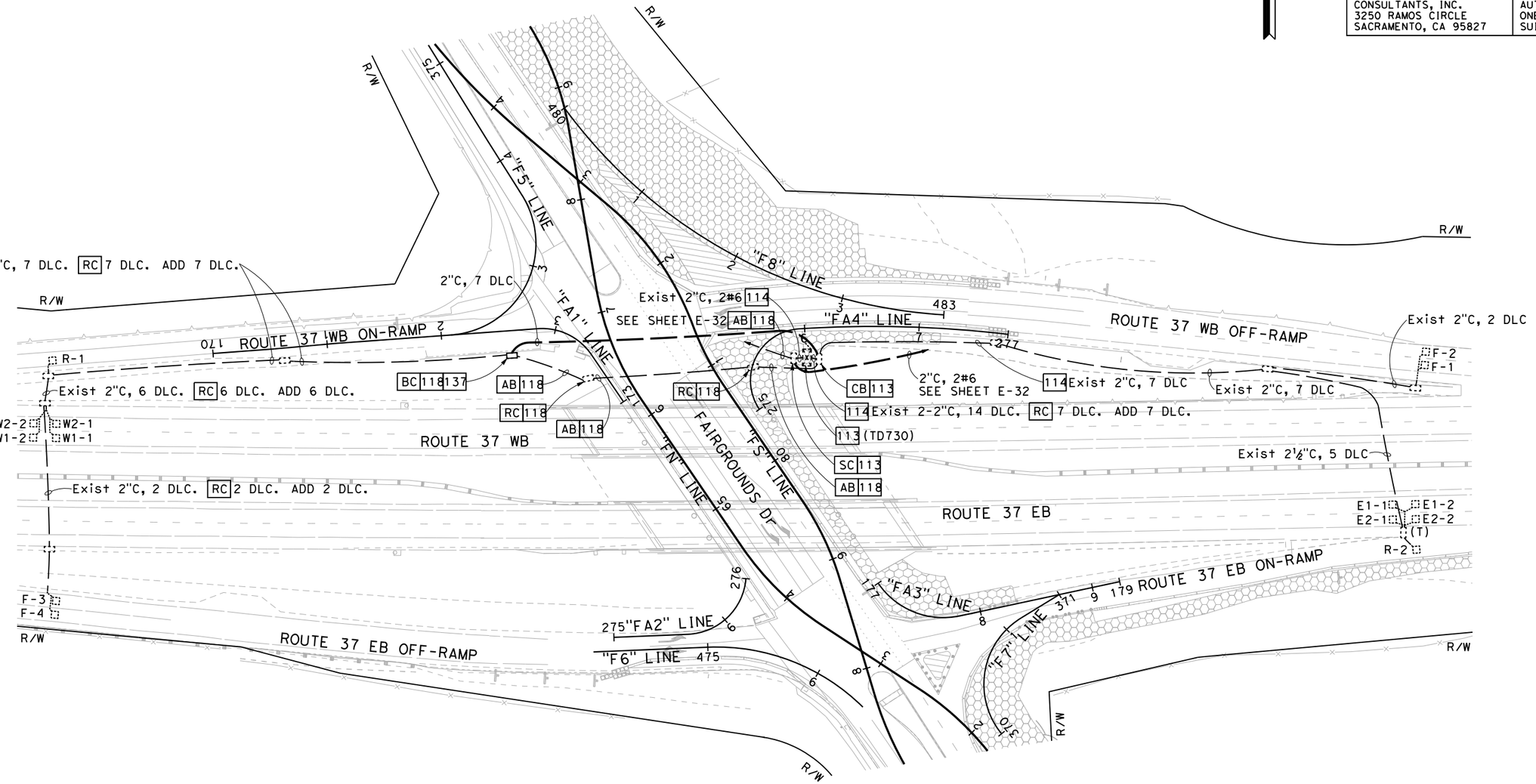
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORTATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



TEMPORARY TRAFFIC MONITORING STATION SYSTEMS
STAGE 1 AND STAGE 2

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

APPROVED FOR ELECTRICAL WORK ONLY

E-31

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
ANSON HUYNH	KIN Y. CHAN

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:53:21 AM

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SUISUN CITY, CA 94585

NOTE:

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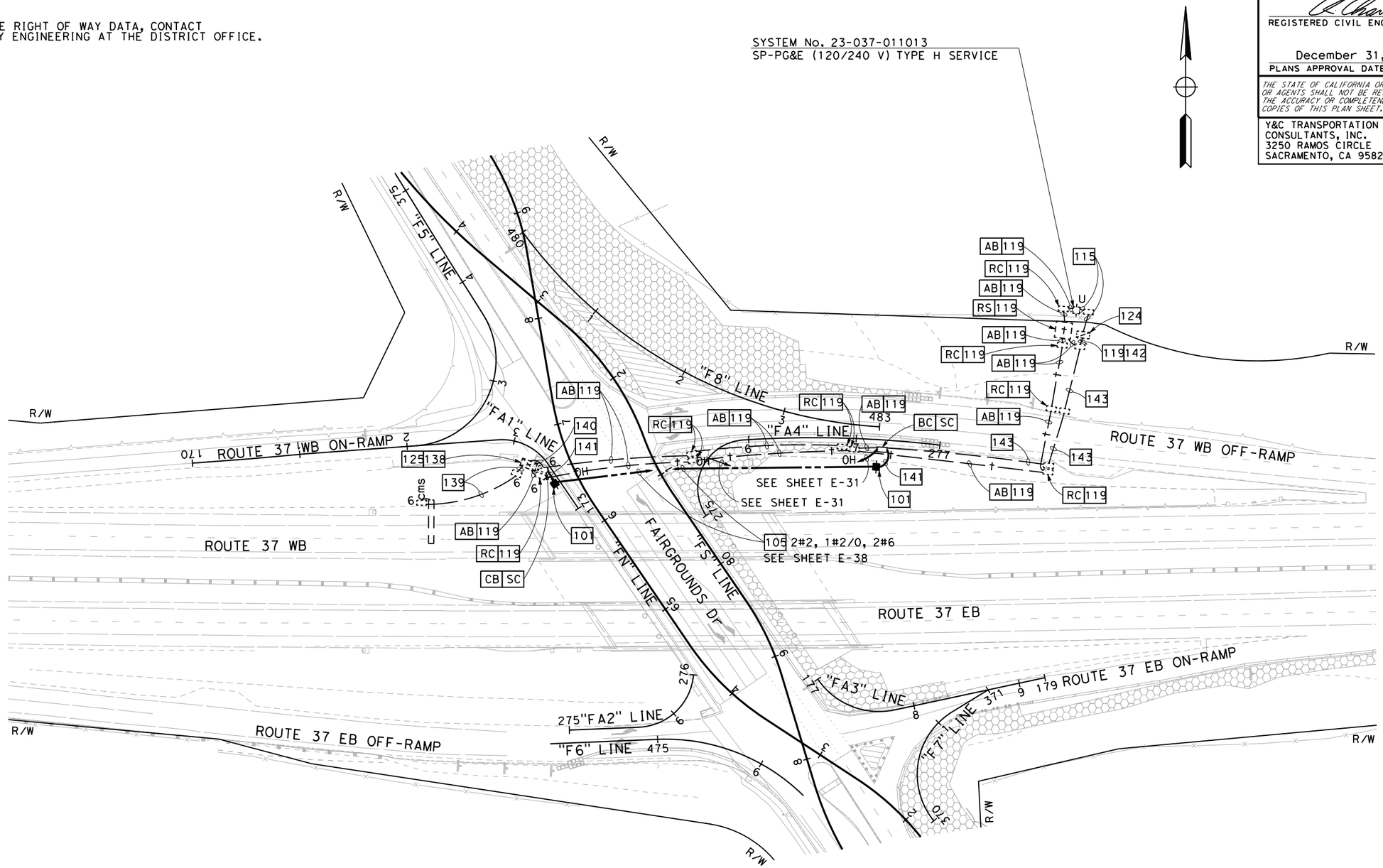
SYSTEM No. 23-037-011013
SP-PG&E (120/240 V) TYPE H SERVICE



TEMPORARY CHANGEABLE MESSAGE SIGN SYSTEMS

STAGE 1

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

APPROVED FOR ELECTRICAL WORK ONLY

E-32

REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY	CONSULTANT FUNCTIONAL SUPERVISOR
ANSON HUYNH		KIN Y. CHAN		DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 11:54:15 AM

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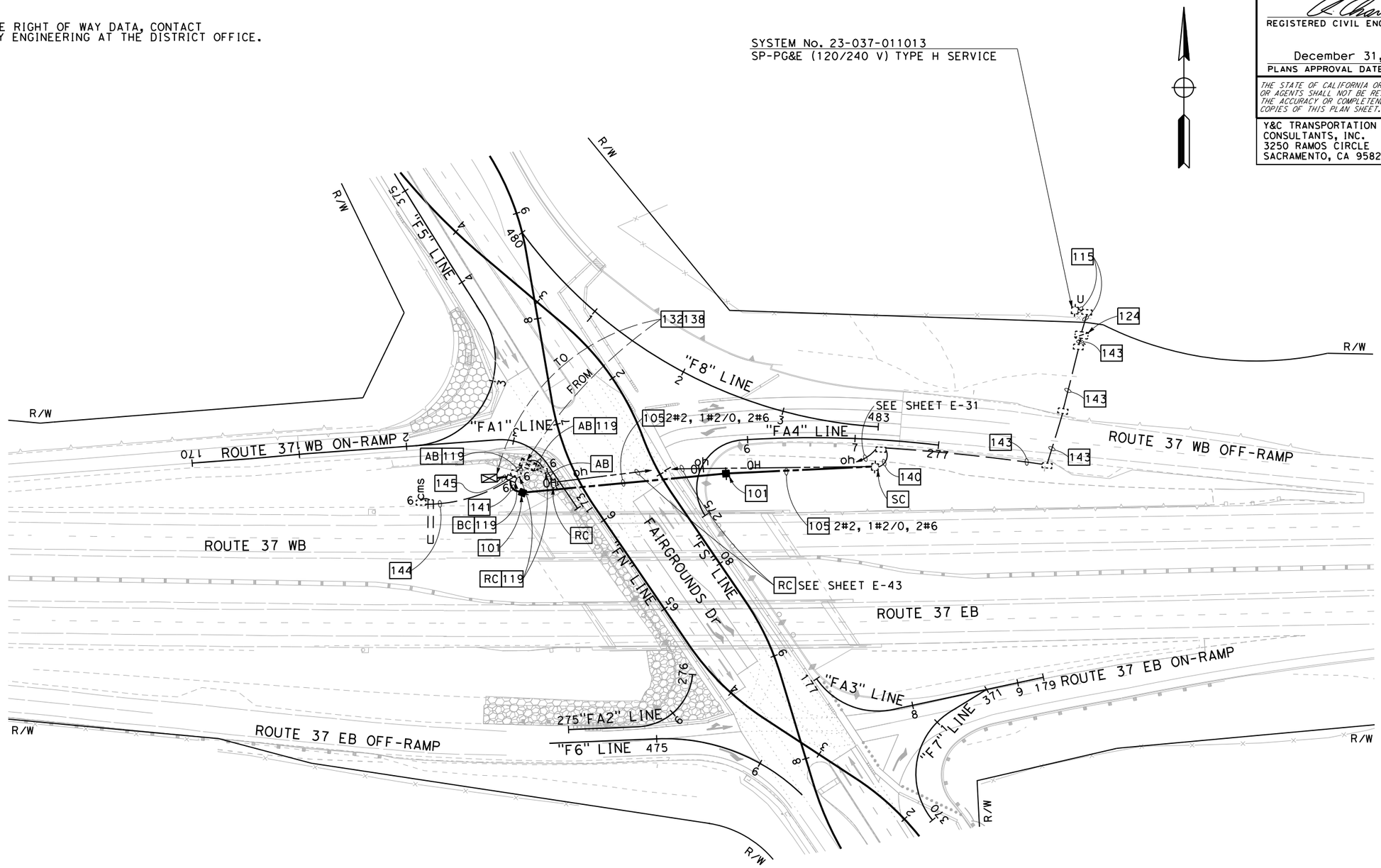

TEMPORARY CHANGEABLE MESSAGE SIGN SYSTEMS

STAGE 2

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

APPROVED FOR ELECTRICAL WORK ONLY

E-33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 3:06:07 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

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PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

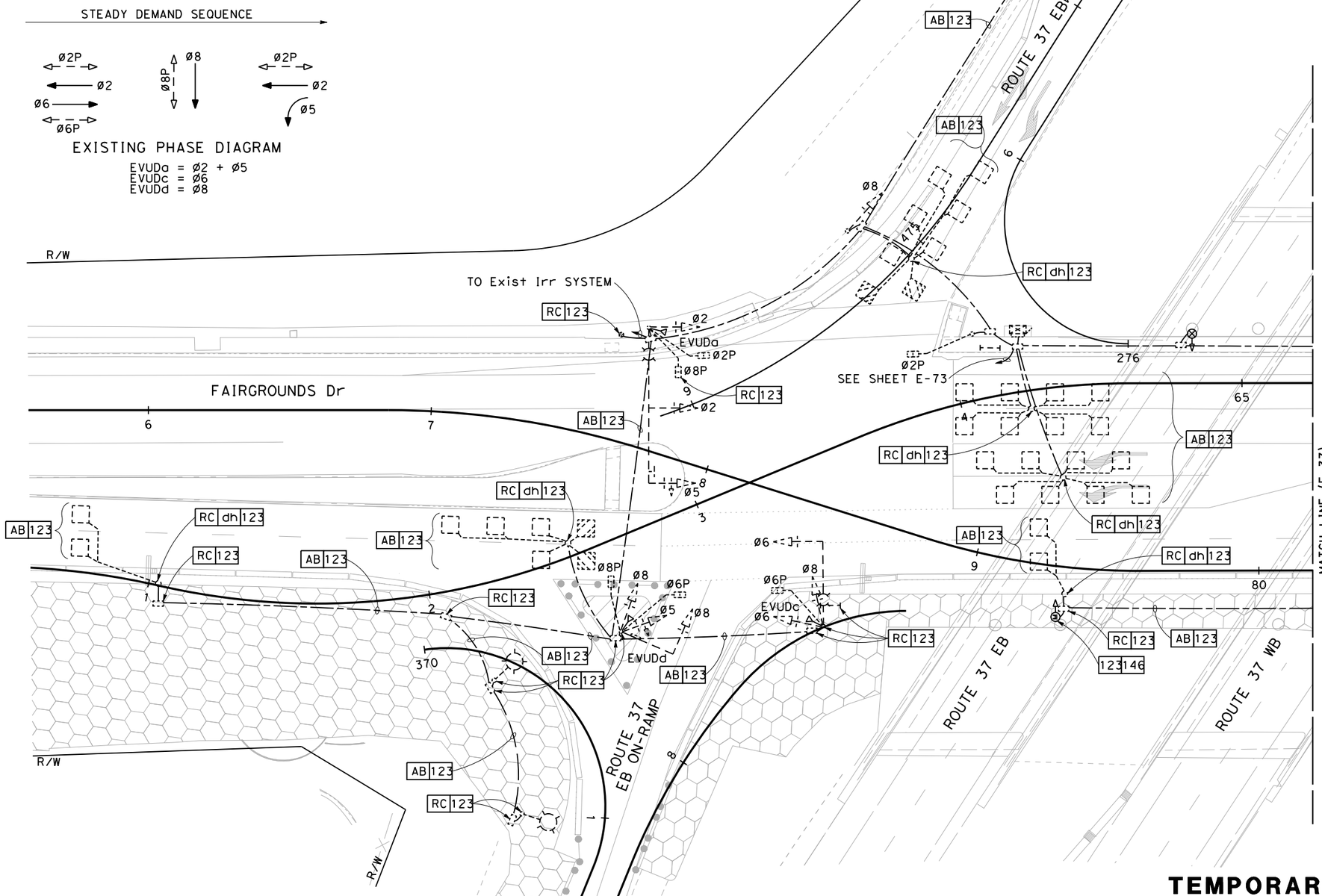
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 4 (EXISTING)

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL SYSTEMS
STAGE 1
SCALE: 1" = 20'

E-34

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

LAST REVISION 08-26-22 DATE PLOTTED => 12/2/2022 TIME PLOTTED => 11:55:34 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

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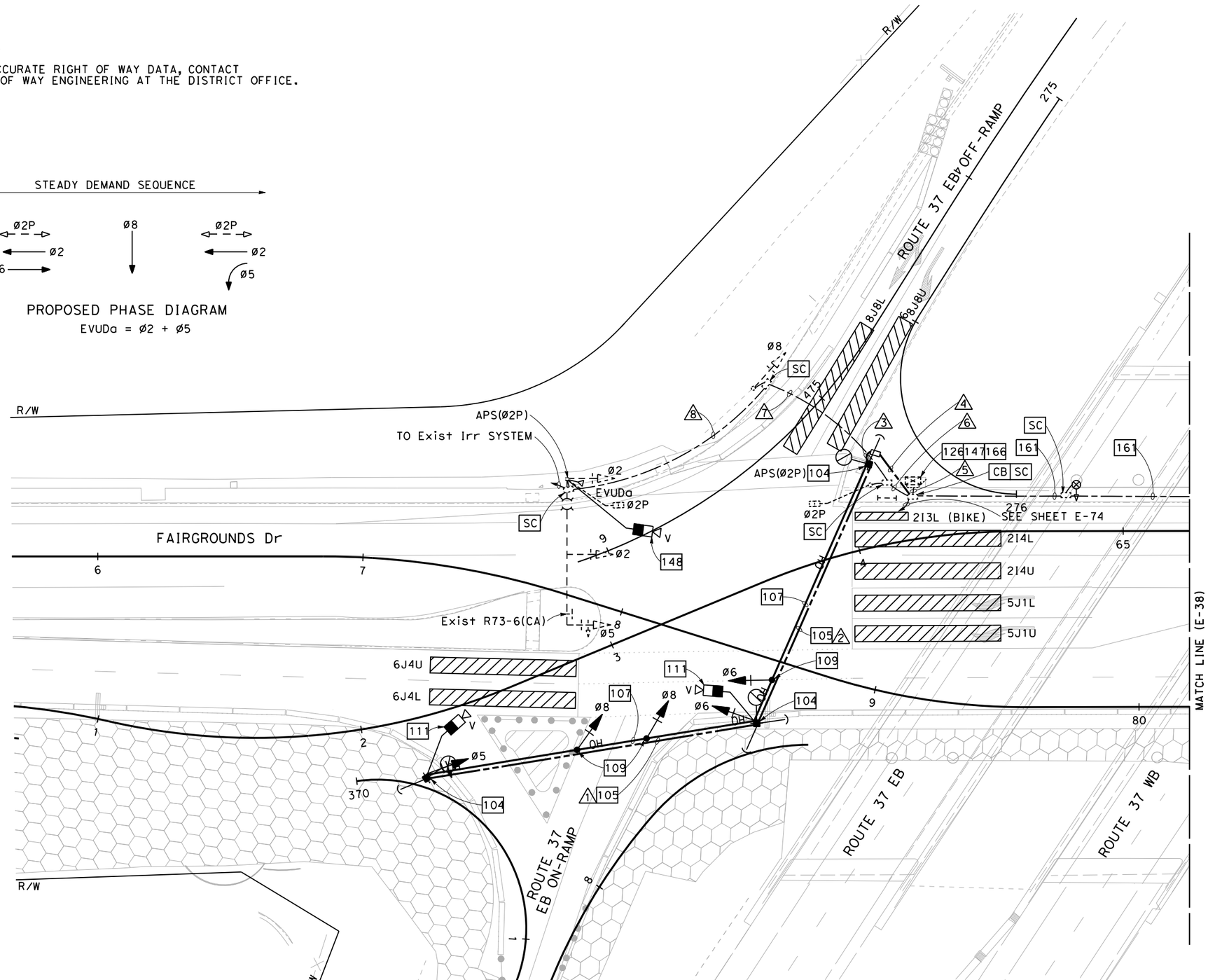
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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

PROPOSED PHASE DIAGRAM
EVUDa = Ø2 + Ø5



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 4

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL SYSTEMS
STAGE 1
SCALE: 1" = 20'

E-35

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 11:56:00 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS							
	CONDUIT RUN NUMBER							
	1	2	3	4	5	6	7	8
No. 14 CONDUCTORS								
Ø2					3	3	3	3
Ø5	3	3	3	3	3	3	3	3
Ø6		3	3	3	3			
Ø8	3	3	3	3	3	3	3	
Ø2P					2	2	2	2
APS(Ø2P)			2	2	2	2	2	2
PEU								
SPARES	3	3	3	3	3	3	3	3
TOTAL No. 14	9	12	14	14	19	16	16	13
No. 10 CONDUCTORS								
IRRIGATION						2	2	2
No. 8 CONDUCTORS								
LIGHTING	2	2	2	2		2	2	2
SIGNAL NEUTRAL	1	1	1	1	1	1	1	1
TOTAL No. 8	3	3	3	3	1	3	3	3
No. 6 CONDUCTORS								
SIGNAL SERVICE					2			
EVUC					1	1	1	1
VIDEO DETECTION CABLE	1	2	2	2	3	1	1	1
SIC					1#/1			
CONDUIT SIZE (INCHES)	OH	OH	3	3	2-3"	3	3	3
NEW/EXISTING CONDUIT (N/E)	N	N	N	N	E	E	E	E
% FILL			15	15	17	13	13	12

NOTE: REMOVE ALL Exist CONDUCTORS/CABLES.
ADD ALL NEW CONDUCTORS/CABLES, UNLESS OTHERWISE NOTED.

= Exist CABLE(S) TO REMAIN

TEMPORARY SIGNAL SYSTEMS
STAGE 1

LOCATION 4

E-36

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 11:56:20 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

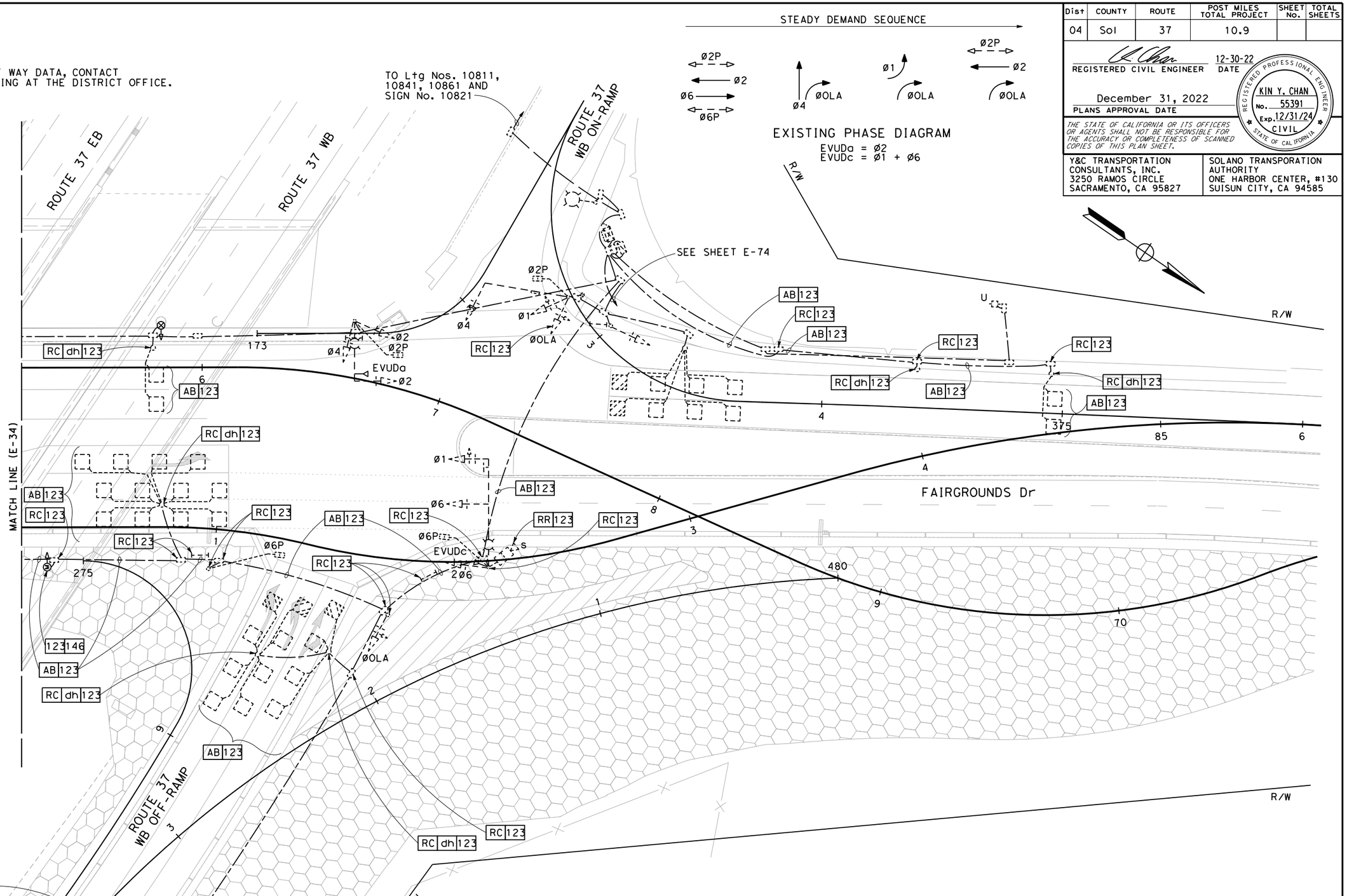
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 5 (EXISTING)

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL SYSTEMS
STAGE 1
SCALE: 1" = 20'

E-37

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN — REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:56:25 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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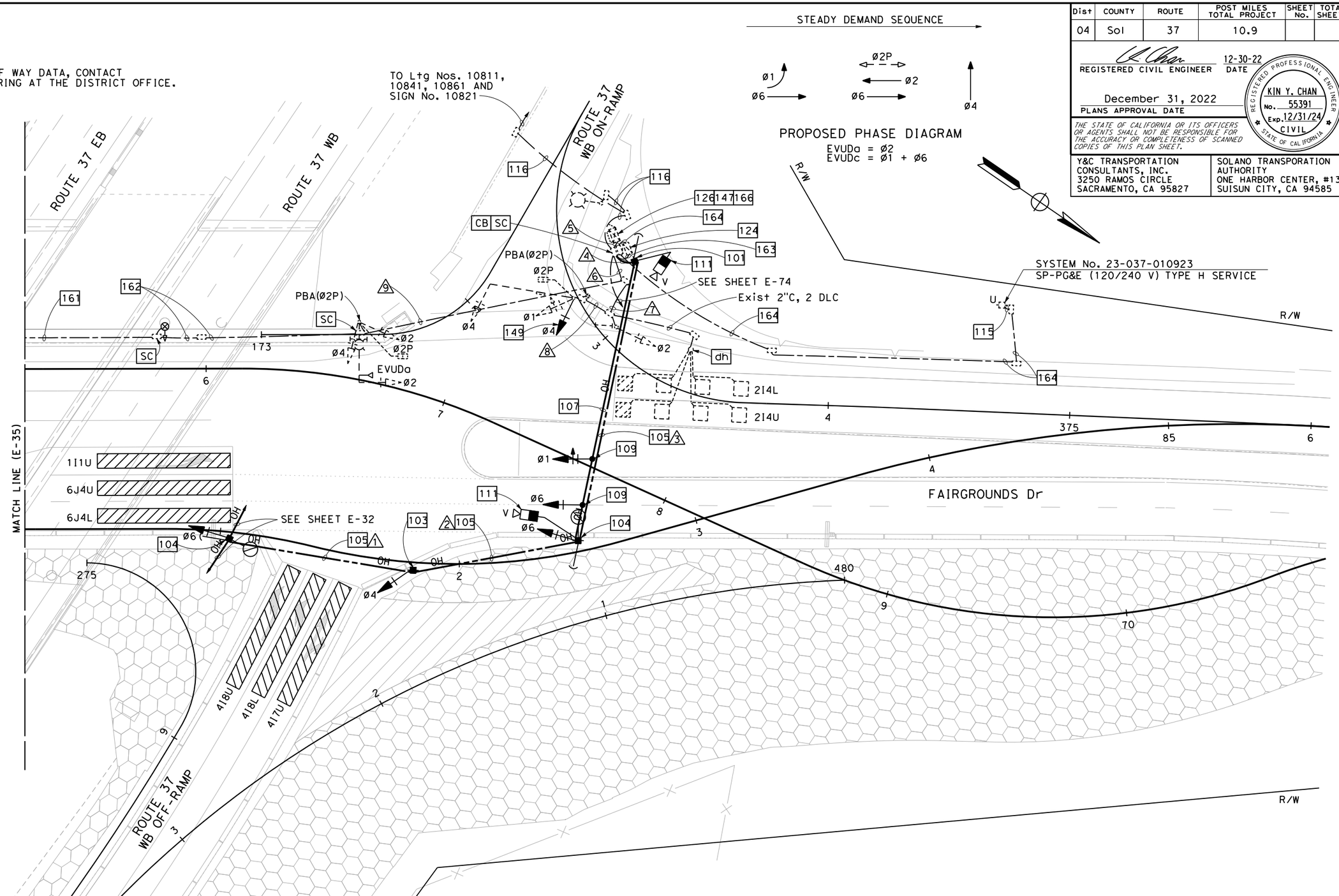

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 5

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL SYSTEMS
STAGE 1
SCALE: 1" = 20'

E-38

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:57:28 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS — CONDUIT RUN NUMBER 1	2	3	4	5	6	7	8	9
No. 14 CONDUCTORS									
Ø1			3	3	6	3	3	3	
Ø2					6	6	3		3
Ø4		3	3	3	6	6	3	3	3
Ø6	3	3	3	3	3				
Ø2P					4	4	2	2	2
APS(Ø2P)					4	4	2	2	2
SPARES	3	3	3	3	6	6	3	3	3
TOTAL No. 14	6	9	12	12	35	29	16	13	13
No. 10 CONDUCTORS									
LIGHTING	2	2	2	2		2			2
IRRIGATION						2			2
TOTAL No. 10	2	2	2	2		4			4
No. 8 CONDUCTORS									
SIGNAL NEUTRAL	1	1	1	1	2	2	1	1	1
No. 6 CONDUCTORS									
SIGNAL SERVICE					2				
DETECTOR CABLES (DLC)									
2I4U/2I4L					2	2	2		
EVUC					1	1			1
SIC					2	1			1
VIDEO DETECTION CABLE			1	2	2+				
CONDUIT SIZE (INCHES)	OH	OH	OH	3	2-3"	2-3"	3	2	3
NEW/EXISTING CONDUIT (N/E)	N	N	N	N	E	E	E	E	E
% FILL				14	16	10	7	10	10

+ = ADD CABLE(S) IN Exist CONDUIT AS INDICATED

TEMPORARY SIGNAL SYSTEMS
STAGE 1

LOCATION 5

E-39

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 11:58:38 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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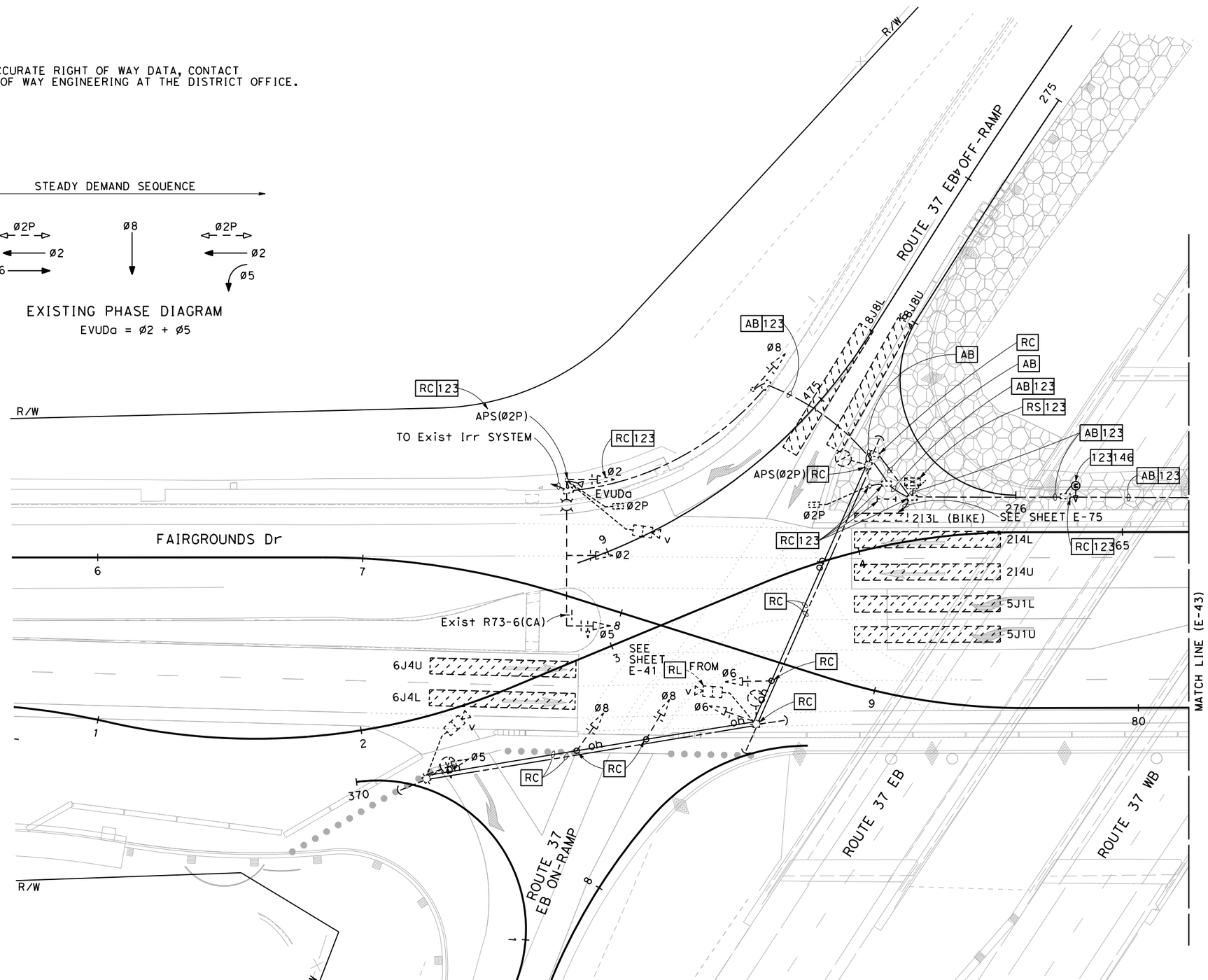
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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

EXISTING PHASE DIAGRAM
EVUDa = Ø2 + Ø5



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 4 (EXISTING)

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL SYSTEMS
STAGE 2
SCALE: 1" = 20'

E-40

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:58:47 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

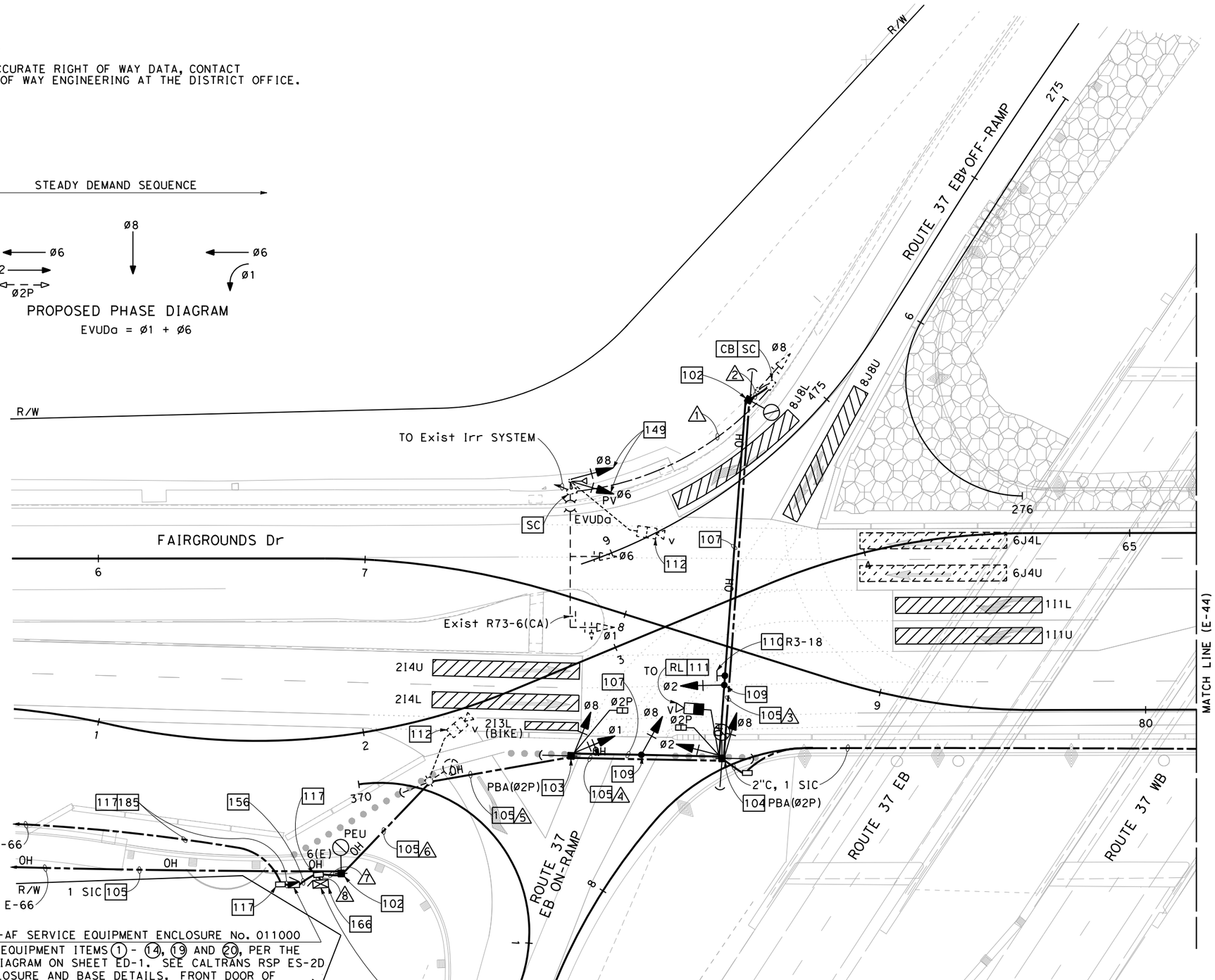
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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

PROPOSED PHASE DIAGRAM
EVUDa = Ø1 + Ø6



TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. 011000
PROVIDE EQUIPMENT ITEMS (1) - (14), (19) AND (20), PER THE WIRING DIAGRAM ON SHEET ED-1. SEE CALTRANS RSP ES-2D FOR ENCLOSURE AND BASE DETAILS. FRONT DOOR OF CABINET SHALL FACE WEST.
117 129 134

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 4

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL SYSTEMS
STAGE 2
SCALE: 1" = 20'

E-41

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 11:59:06 AM

BORDER LAST REVISED 7/2/2010
USERNAME => jnguyen
DGN FILE => 0400020584ua041
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0738
PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS							
	CONDUIT RUN NUMBER							
	1	2	3	4	5	6	7	8
No. 14 CONDUCTORS								
Ø1	3	3	3	3	3	3	3	3
Ø2			3	3	3	3	3	3
Ø6	3	3	3	3	3	3	3	3
Ø8	3	3	3	3	3	3	3	3
Ø2P				2	2	2	2	2
PBA(Ø2P)				2	2	2	2	2
PEU							3	
SPARES	3	3	3	3	3	3	3	3
TOTAL No. 14	12	12	15	19	19	19	22	19
No. 10 CONDUCTORS								
IRRIGATION	2	2	2	2	2	2	2	2
No. 8 CONDUCTORS								
LIGHTING	2	2	2	2	2	2	2	
SIGNAL NEUTRAL	1	1	1	1	1	1	1	1
TOTAL No. 8	3	3	3	3	3	3	3	1
No. 6 CONDUCTORS								
SIGNAL SERVICE								2
EVUC	1	1	1	1	1	1	1	1
VIDEO DETECTION CABLE	1	1	1	2	2	3	3	3
SIC				1	1	1	1	1
CONDUIT SIZE (INCHES)	3	3	OH	OH	OH	OH	4	2-4"
NEW/EXISTING CONDUIT (N/E)	E	N	N	N	N	N	N	N
% FILL	12	12					15	10

NOTE: REMOVE ALL Exist CONDUCTORS/CABLES.
ADD ALL NEW CONDUCTORS/CABLES, UNLESS OTHERWISE NOTED.

TEMPORARY SIGNAL SYSTEMS
STAGE 2

LOCATION 4

E-42

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
DAN K. YAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 11:59:34 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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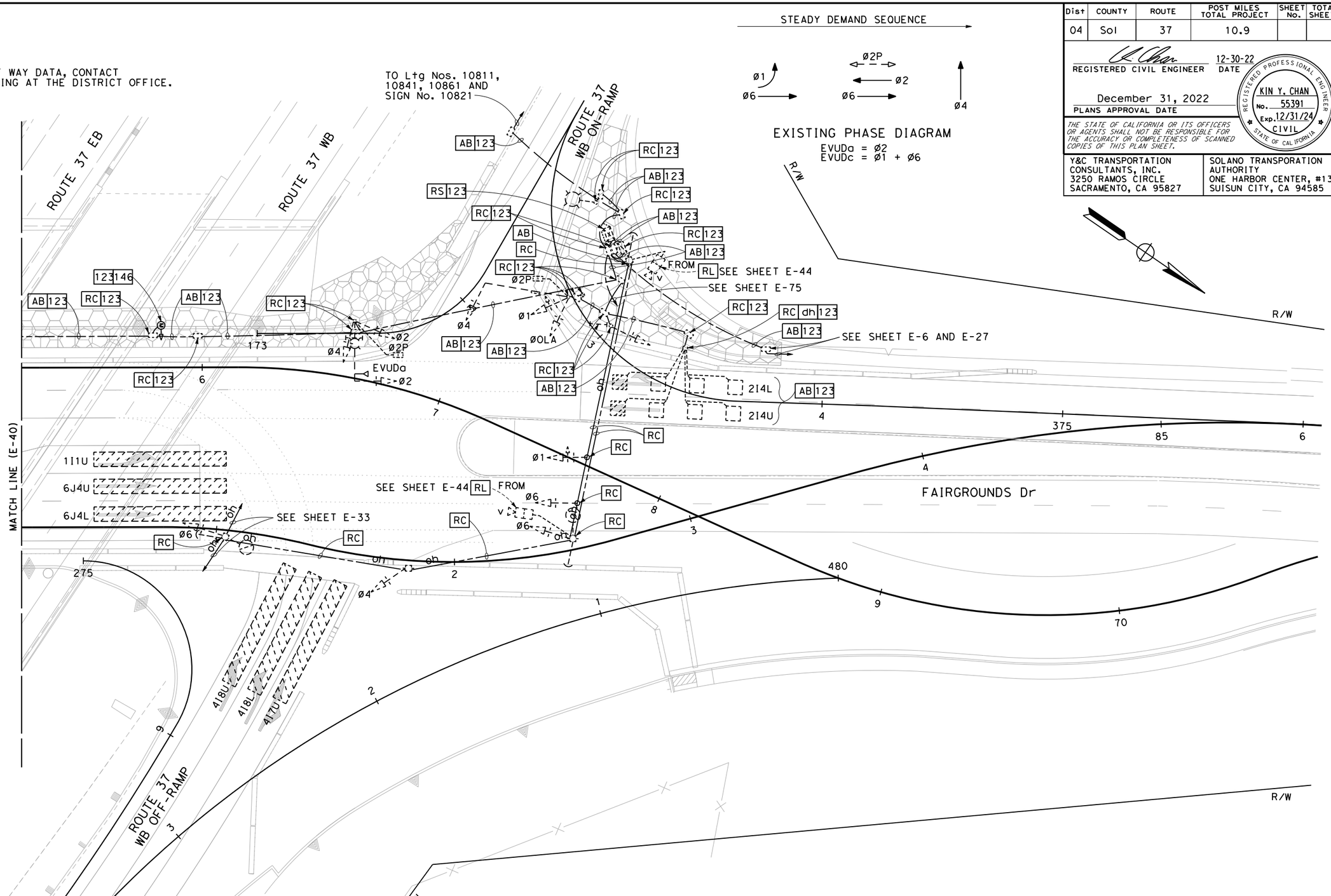
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 5 (EXISTING)

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL SYSTEMS
STAGE 2
SCALE: 1" = 20'

E-43

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 11:59:39 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORTATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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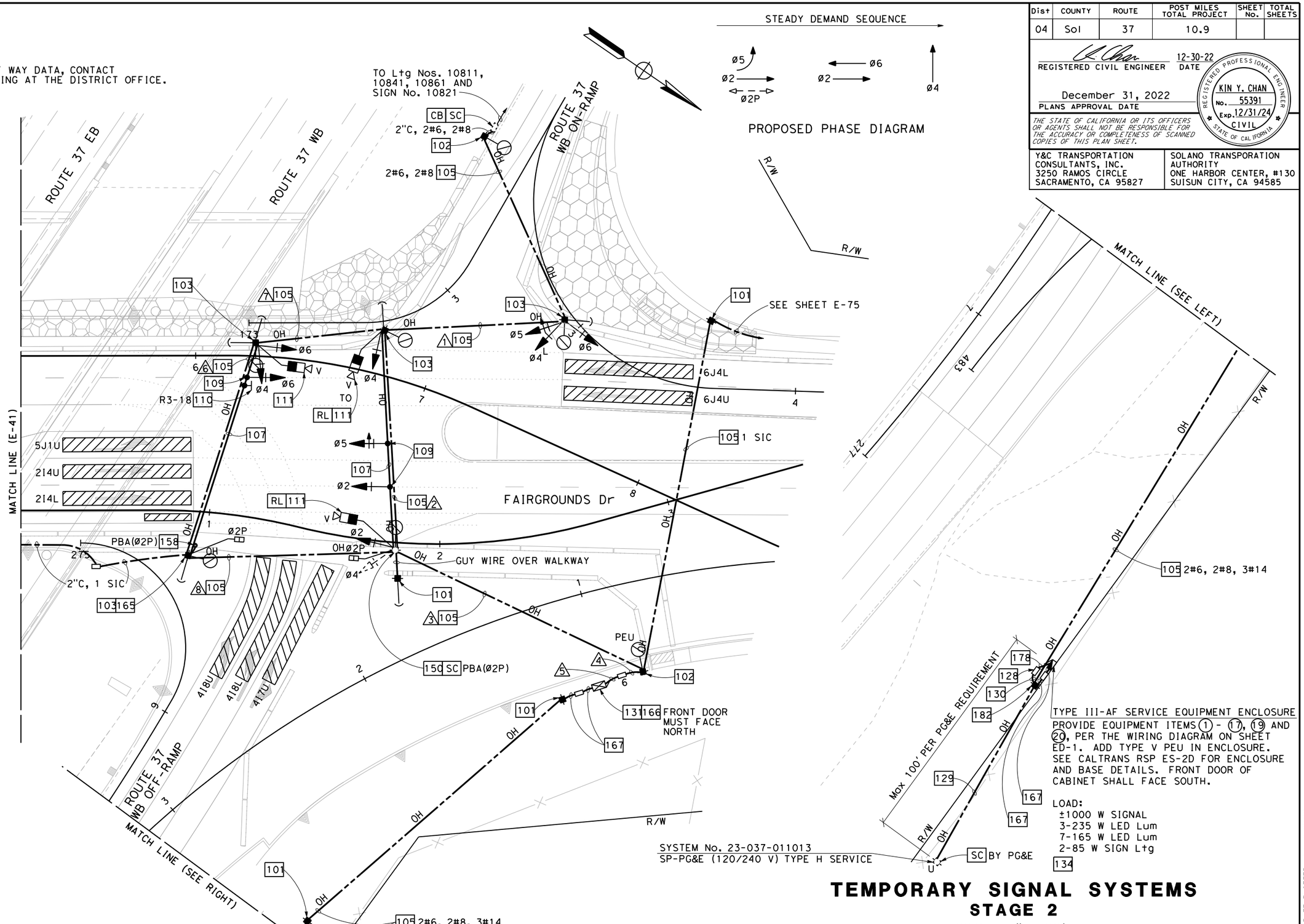

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 5

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL SYSTEMS
STAGE 2

SCALE: 1" = 20'

E-44

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 11:59:53 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS							
	CONDUIT RUN NUMBER							
	1	2	3	4	5	6	7	8
No. 14 CONDUCTORS								
Ø2		3	3	3	3			
Ø4	3	3	3	3	3		3	
Ø5	3	3	3	3	3			
Ø6	3	3	3	3	3	3	3	
Ø2P			2	2	2			2
PBA(Ø2P)			2	2	2			2
PEU				3	3			
SPARES	3	3	3	3	3	3	3	3
TOTAL No. 14	12	15	19	22	22	6	9	7
No. 8 CONDUCTORS								
SIGNAL NEUTRAL	1	1	1	1	2	1	1	1
SIGN LIGHTING	2	2	2	2	2			
TOTAL No. 8	3	3	3	3	4	1	1	1
No. 6 CONDUCTORS								
SIGNAL SERVICE					2			
LIGHTING	2	2	2	2	2		2	2
TOTAL No. 6	2	2	2	2	4		2	2
VIDEO DETECTION CABLE		2	3	3	3		1	
SIC			1	2	2			1
CONDUIT SIZE (INCHES)	OH	OH	OH	4	2-3"	OH	OH	OH
NEW/EXISTING CONDUIT (N/E)	N	N	N	N	N	N	N	N
% FILL				17	18			

LOCATION 5

TEMPORARY SIGNAL SYSTEMS
STAGE 2

E-45

REVISED BY	DATE REVISED
ANSON HUYNH	KIN Y. CHAN
CALCULATED-DESIGNED BY	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 12:00:09 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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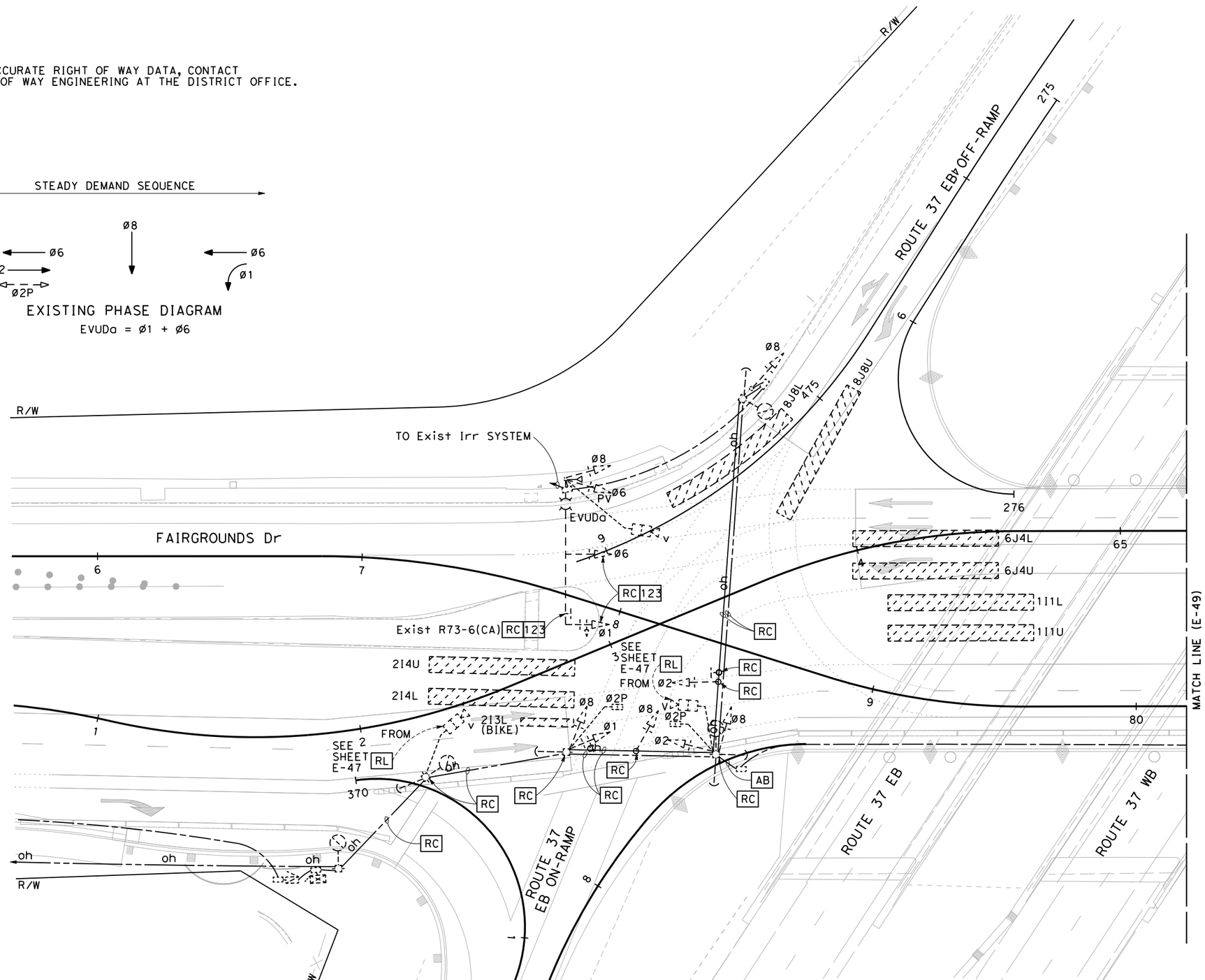

TEMPORARY SIGNAL SYSTEMS
STAGE 3a TO STAGE 4
SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 4 (EXISTING)
APPROVED FOR ELECTRICAL WORK ONLY

E-46

REVISED BY	DATE REVISED
ANSON HUYNH	KIN Y. CHAN
CALCULATED-DESIGNED BY	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 12:00:14 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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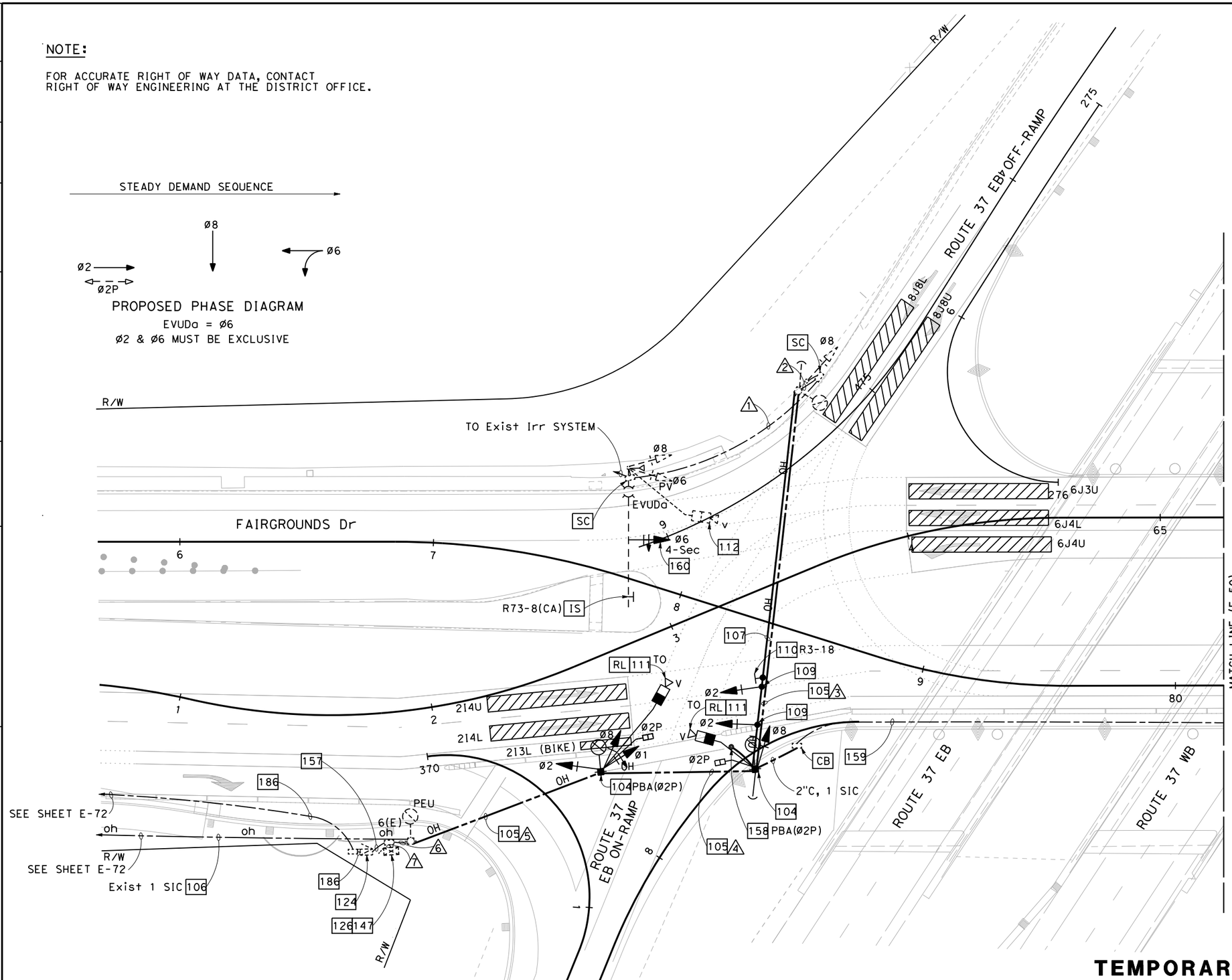
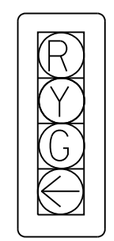
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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





DETAIL A
NO SCALE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

TEMPORARY SIGNAL SYSTEMS
STAGE 3a TO STAGE 4
SCALE: 1" = 20'

LOCATION 4
APPROVED FOR ELECTRICAL WORK ONLY

E-47

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 12:00:20 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS CONDUIT RUN NUMBER 1	2	3	4	5	6	7
No. 14 CONDUCTORS							
Ø2			3	3	3	3	3
Ø6	3	3	3	3	3	3	3
Ø8	3	3	3	3	3	3	3
Ø2P				2	2	2	2
PBA(Ø2P)				2	2	2	2
PEU						3	
SPARES	3	3	3	3	3	3	3
TOTAL No. 14	9	9	12	16	16	19	16
No. 10 CONDUCTORS							
IRRIGATION	2	2	2	2	2	2	2
No. 8 CONDUCTORS							
LIGHTING	2	2	2	2	2	2	
SIGNAL NEUTRAL	1	1	1	1	1	1	1
TOTAL No. 8	3	3	3	3	3	3	1
No. 6 CONDUCTORS							
SIGNAL SERVICE							2
EVUC	1	1	1	1	1	1	1
VIDEO DETECTION CABLE	1	1	1	2	3	3	3
SIC				1	1	1	1
CONDUIT SIZE (INCHES)	3	3	OH	OH	OH	4	2-4"
NEW/EXISTING CONDUIT (N/E)	E	E	N	N	N	E	E
% FILL	11	11				15	10

NOTE: REMOVE ALL Exist CONDUCTORS/CABLES.
ADD ALL NEW CONDUCTORS/CABLES, UNLESS OTHERWISE NOTED.

TEMPORARY SIGNAL SYSTEMS
STAGE 3a TO STAGE 4

LOCATION 4

E-48

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR | DAN K. YAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 TIME PLOTTED => 12:00:36 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

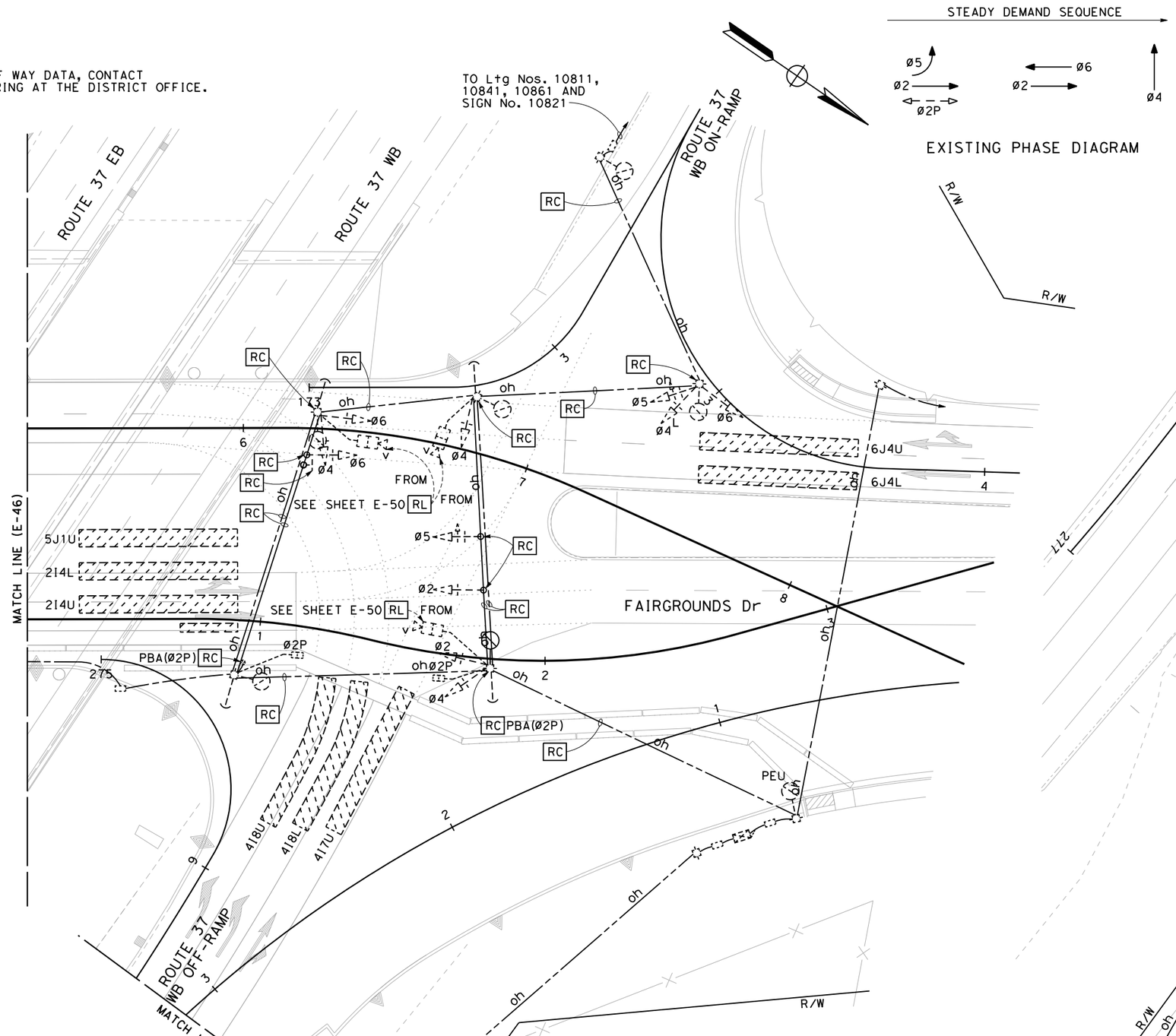
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

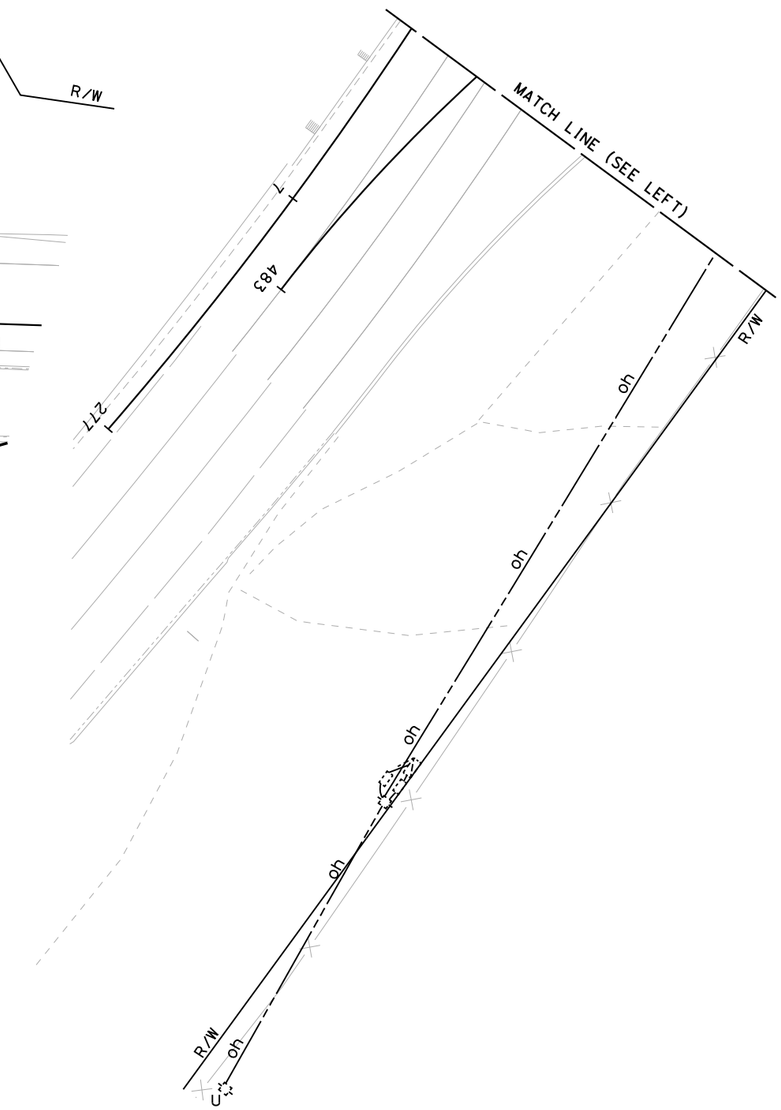
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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





TEMPORARY SIGNAL SYSTEMS
STAGE 3a TO STAGE 4
SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 5 (EXISTING)
APPROVED FOR ELECTRICAL WORK ONLY

E-49

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 12:00:44 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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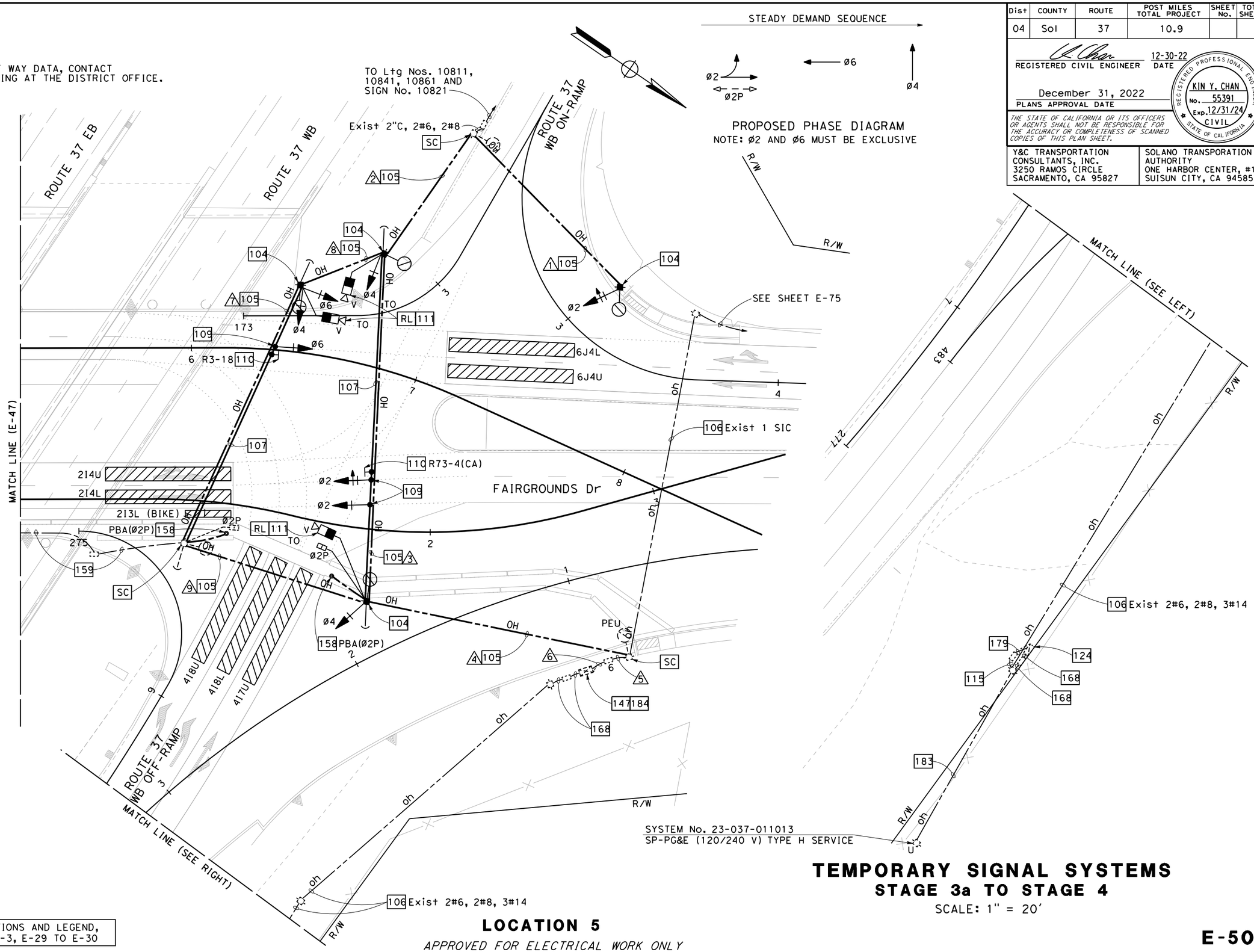
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 5

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL SYSTEMS
STAGE 3a TO STAGE 4

SCALE: 1" = 20'

E-50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: KIN Y. CHAN
CHECKED BY: ANSON HUYNH
REVISED BY / DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 12:00:50 PM

BORDER LAST REVISED 7/2/2010
USERNAME => jnguyen
DGN FILE => 0400020584ua050
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0738
PROJECT NUMBER & PHASE 04000205841

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS — CONDUIT RUN NUMBER 1	2	3	4	5	6	7	8	9
No. 14 CONDUCTORS									
Ø2	3	3	3	3	3	3			
Ø4			3	3	3	3		3	
Ø6			3	3	3	3	3	3	
Ø2P				2	2	2			2
PBA(Ø2P)				2	2	2			2
PEU					3	3			
SPARES	3	3	3	3	3	3	3	3	3
TOTAL No. 14	6	6	12	16	19	19	6	9	7
No. 8 CONDUCTORS									
SIGNAL NEUTRAL	1	1	1	1	1	2	1	1	1
SIGN LIGHTING		2	2	2	2	2			
TOTAL No. 8	1	3	3	3	3	4	1	1	1
No. 6 CONDUCTORS									
SIGNAL SERVICE						2			
LIGHTING	2	2	2	2	2	2		2	2
TOTAL No. 6	2	2	2	2	2	4		2	2
VIDEO DETECTION CABLE			2	3	3	3		1	
SIC				1	1#	1#			1
CONDUIT SIZE (INCHES)	OH	OH	OH	OH	4	2-3"	OH	OH	OH
NEW/EXISTING CONDUIT (N/E)	N	N	N	N	E	E	N	N	N
% FILL					16	17			

NOTE: REMOVE ALL Exist CONDUCTORS/CABLES.
ADD ALL NEW CONDUCTORS/CABLES, UNLESS OTHERWISE NOTED.

= Exist CABLE(S) TO REMAIN

TEMPORARY SIGNAL SYSTEMS
STAGE 3a TO STAGE 4

LOCATION 5

E-51

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR | DAN K. YAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 12:00:58 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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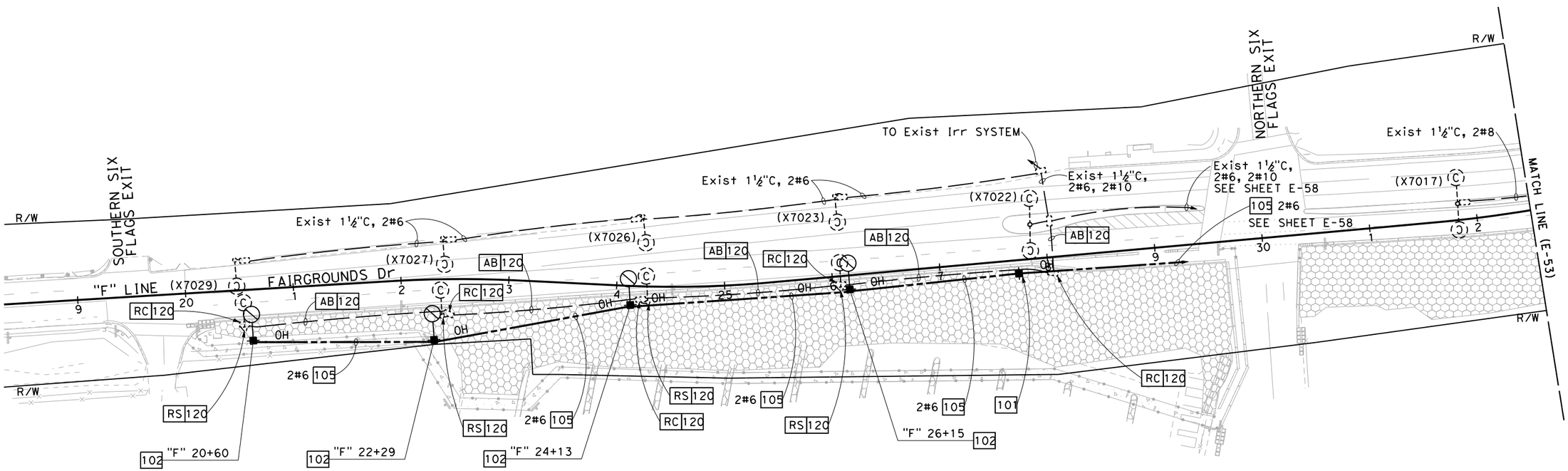
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



TEMPORARY LIGHTING (CITY STREET)

STAGE 1

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

APPROVED FOR ELECTRICAL WORK ONLY

E-52

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
ANSON HUYNH	KIN Y. CHAN

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 TIME PLOTTED => 12:01:10 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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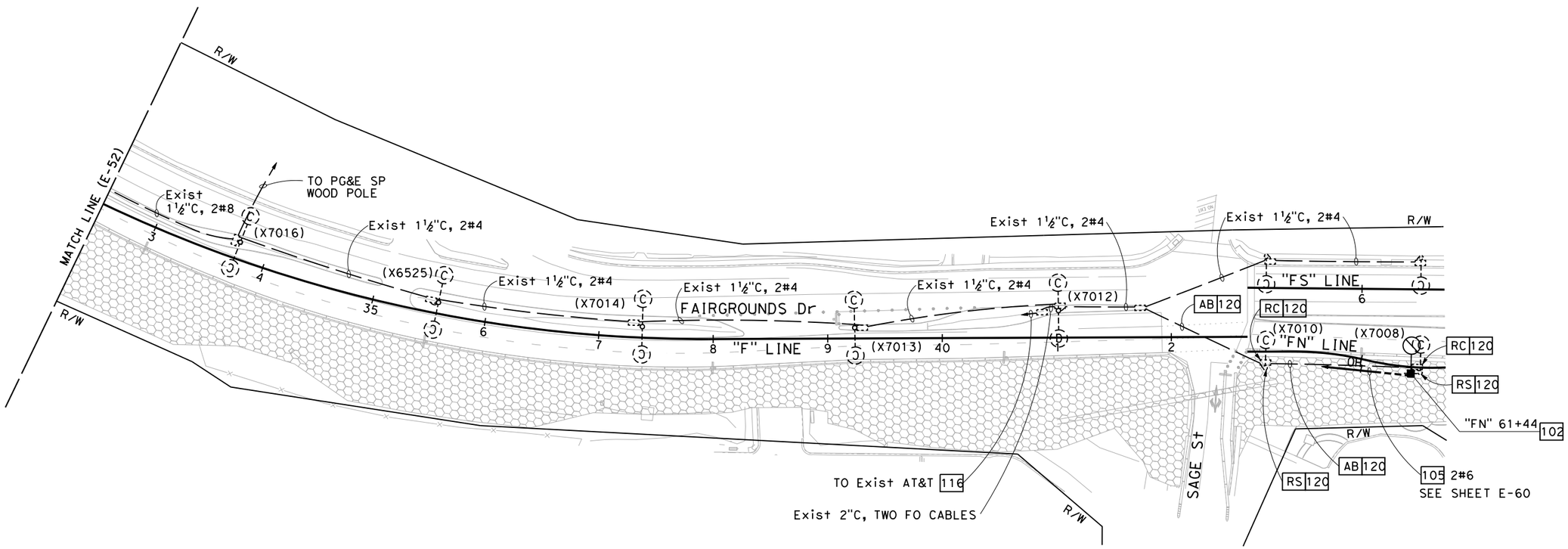
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



TEMPORARY LIGHTING (CITY STREET)
STAGE 1
SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

APPROVED FOR ELECTRICAL WORK ONLY

E-53

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 12:01:33 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

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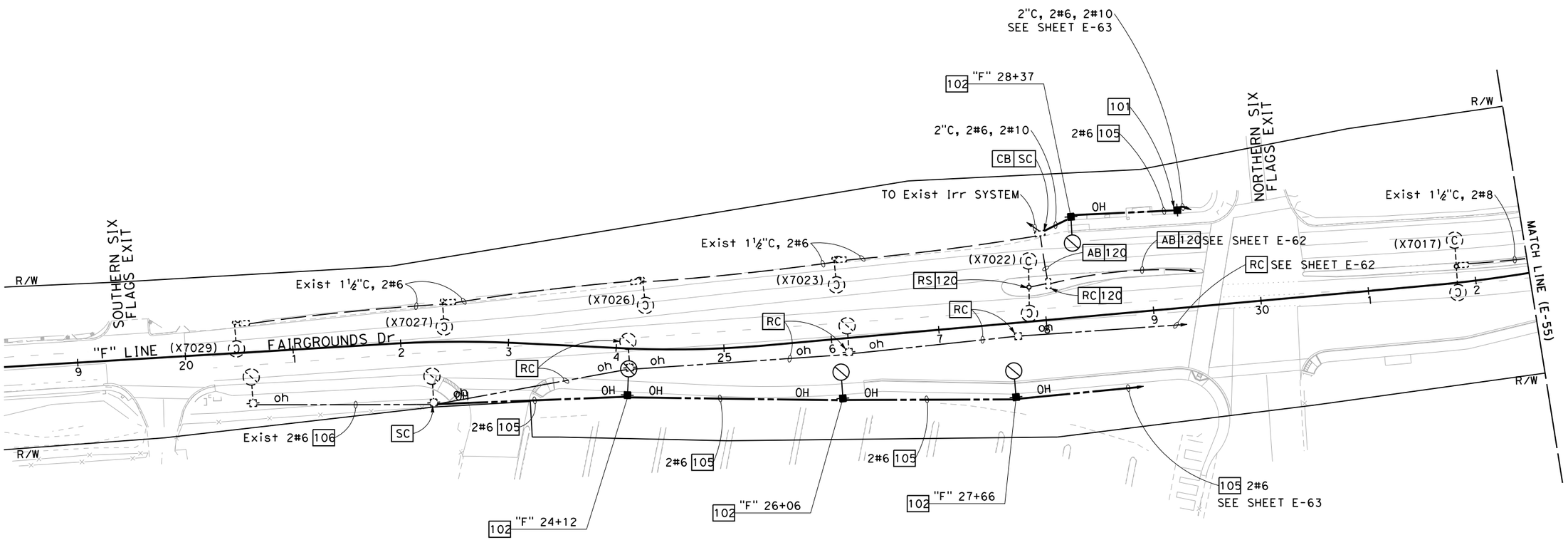
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



TEMPORARY LIGHTING (CITY STREET)
STAGE 2 TO STAGE 4
SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

APPROVED FOR ELECTRICAL WORK ONLY

E-54

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN — REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 12:02:30 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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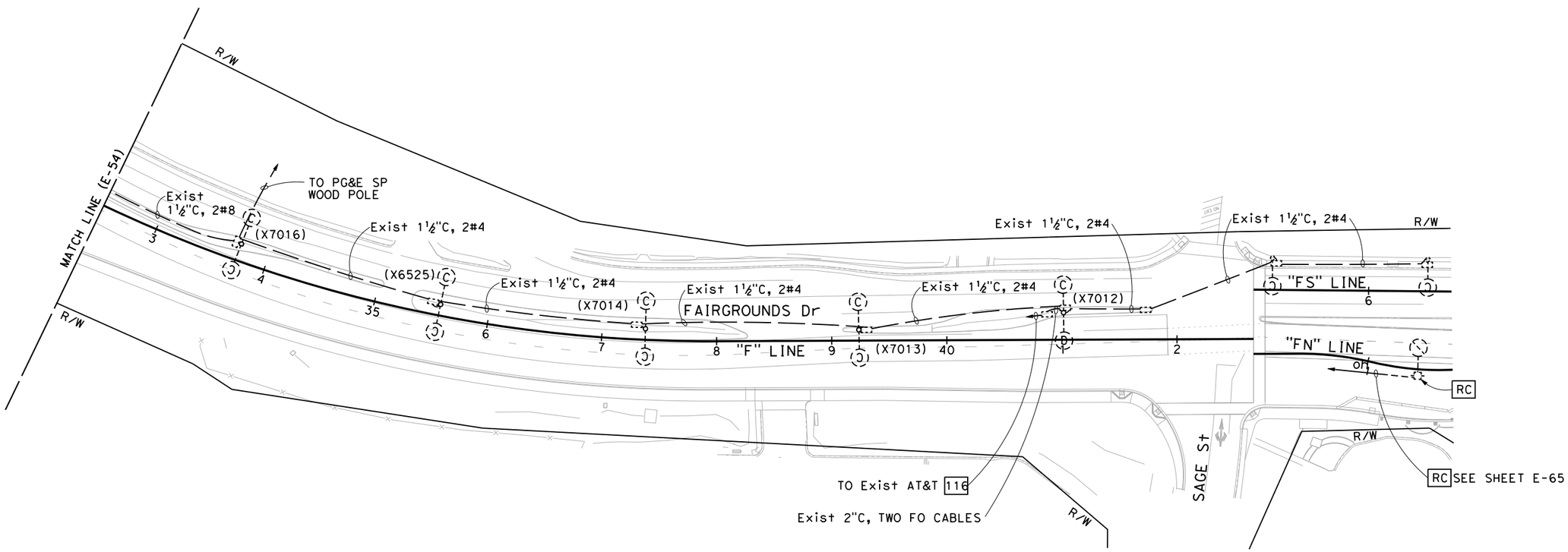
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



TEMPORARY LIGHTING (CITY STREET)
STAGE 2 TO STAGE 3c
SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

APPROVED FOR ELECTRICAL WORK ONLY

E-55

REVISED BY	DATE REVISED
ANSON HUYNH	

CALCULATED-DESIGNED BY	CHECKED BY
KIN Y. CHAN	

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 12:02:35 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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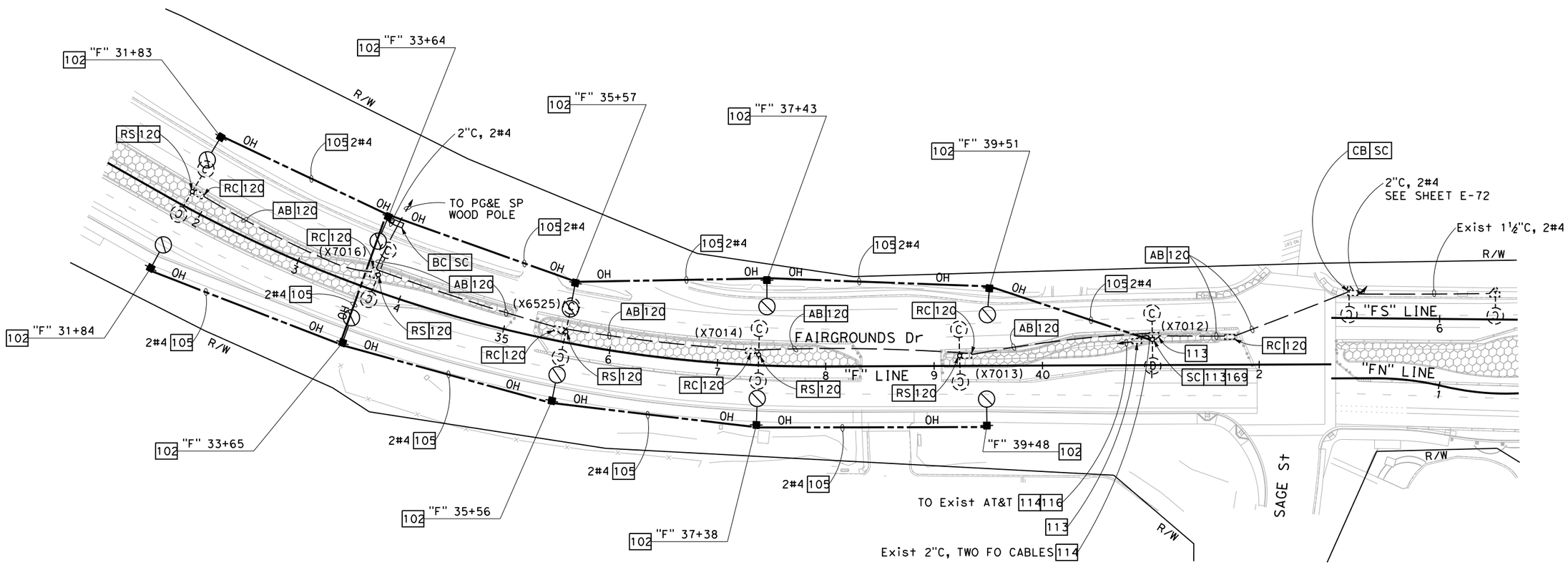
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



TEMPORARY LIGHTING (CITY STREET)

STAGE 4

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

APPROVED FOR ELECTRICAL WORK ONLY

E-56

REVISED BY	DATE REVISED
ANSON HUYNH	

CALCULATED-DESIGNED BY	CHECKED BY
KIN Y. CHAN	

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 12:02:40 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — 12-30-22 DATE

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
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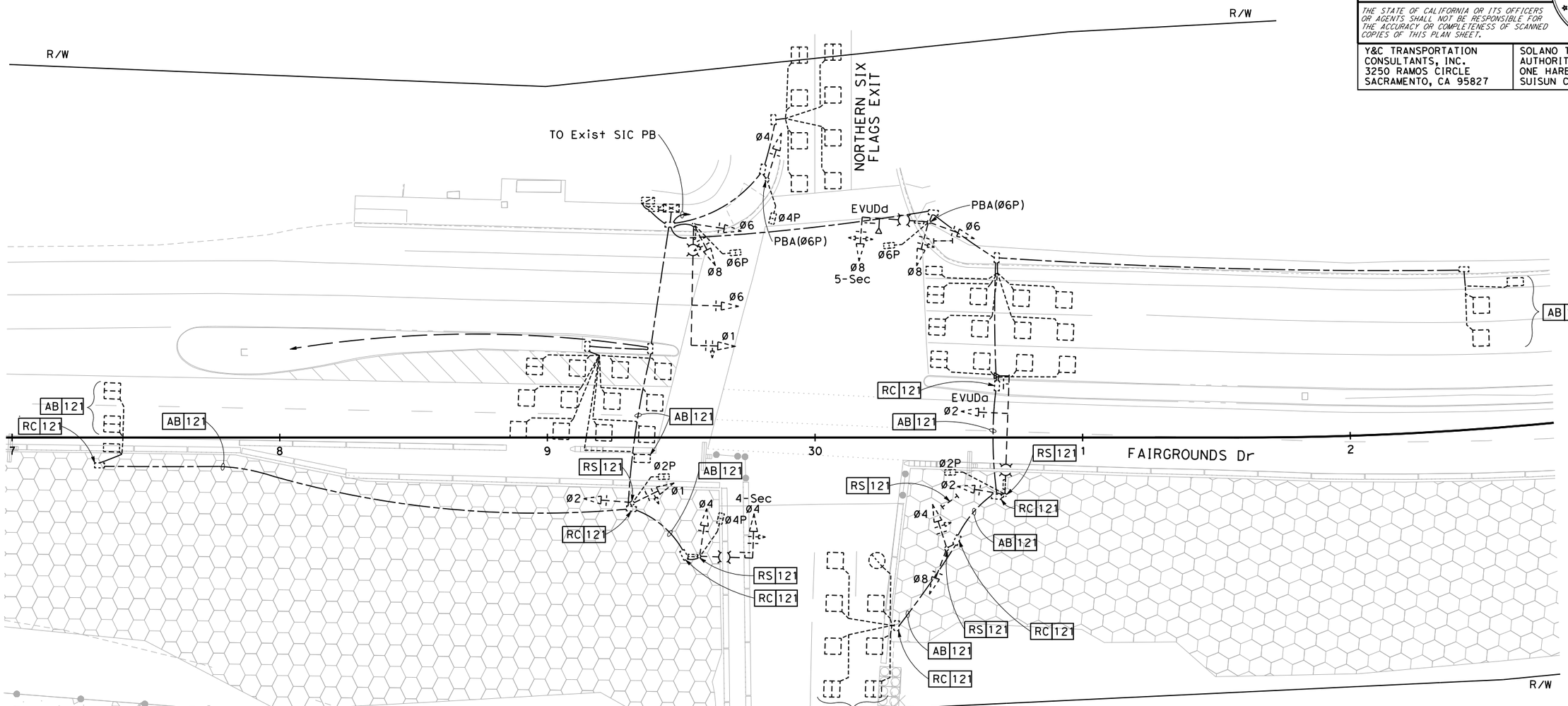
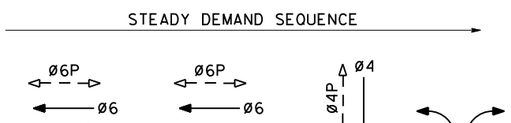
SUISUN CITY, CA 94585

NOTE:

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



STEADY DEMAND SEQUENCE



EXISTING PHASE DIAGRAM

EVUDa = Ø2
EVUDd = Ø8

NOTE: Ø4 AND Ø8 MUST BE EXCLUSIVE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

TEMPORARY SIGNAL AND LIGHTING (CITY)
STAGE 1
SCALE: 1" = 20'

LOCATION 2 (EXISTING)
APPROVED FOR ELECTRICAL WORK ONLY

E-57

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 12:02:59 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

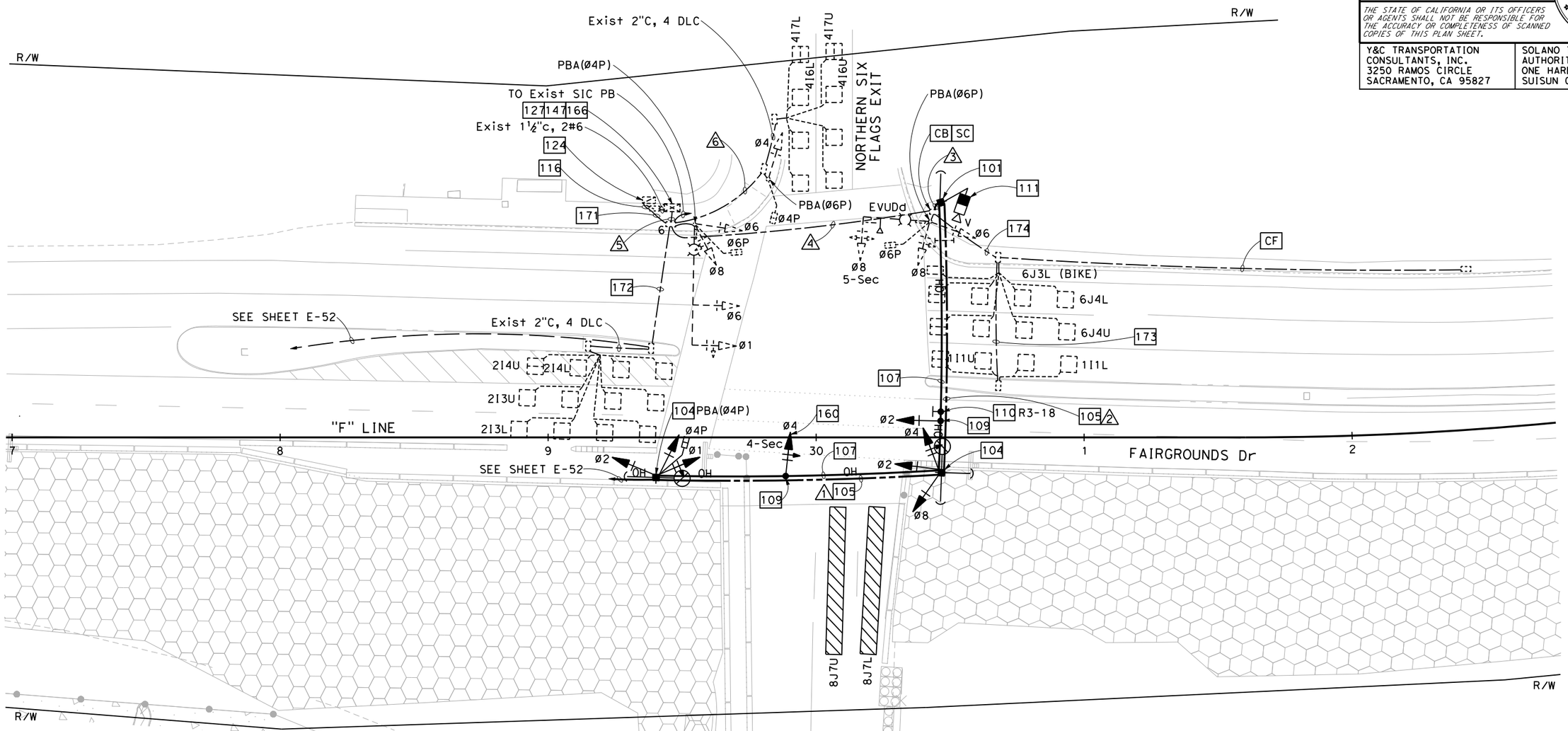
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

TEMPORARY SIGNAL AND LIGHTING (CITY)
STAGE 1
SCALE: 1" = 20'

LOCATION 2
APPROVED FOR ELECTRICAL WORK ONLY

E-58

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN — REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 12:03:09 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS							
	CONDUIT RUN NUMBER							
	1	2	3	4	5	6		
No. 14 CONDUCTORS								
Ø1	3	3	3	3	3			
Ø2	3	3	3	3	3			
Ø4	3	3	3	3	6	3		
Ø6				3	3			
Ø8		3	3	3	3			
Ø4P	2	2	2	2	4	2		
Ø6P				2	2			
PBA(Ø4P)	1	1	1	1	2			
PBA(Ø6P)				1	2	1		
PBA COMMON	1	1	1	1	2	1		
PEU								
SPARES	3	3	3	3	6	3		
TOTAL No. 14	16	19	19	25	36	10		
No. 12 CONDUCTORS								
IISNS				2				
No. 8 CONDUCTORS								
LIGHTING	2	2	2	2				
SIGNAL NEUTRAL	1	1	1	1	2	1		
TOTAL No. 8	3	3	3	3	2	1		
DETECTOR CABLES (DLC)								
1I1U/1I1L				2	2			
2I3U/2I3L					2			
2I4U/2I4L					2			
4I6U/4I6L					2	2		
4I7U/4I7L					2	2		
6J4U/6J4L				2	2			
6J3L				1	1			
TOTAL DETECTOR CABLES				5	13	4		
EVUC				1	1			
VIDEO DETECTION CABLE			1+	1+	1+			
SIC					2			
CONDUIT SIZE (INCHES)	OH	OH	3	3½	2-4"	1½		
NEW/EXISTING CONDUIT (N/E)	N	N	N	E	E	E		
% FILL			12	15	12	27		

+ = ADD CONDUCTOR(S)/CABLE(S) IN Exist CONDUIT AS INDICATED

TEMPORARY SIGNAL AND LIGHTING (CITY)
STAGE 1

LOCATION 2

E-59

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 12:03:19 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

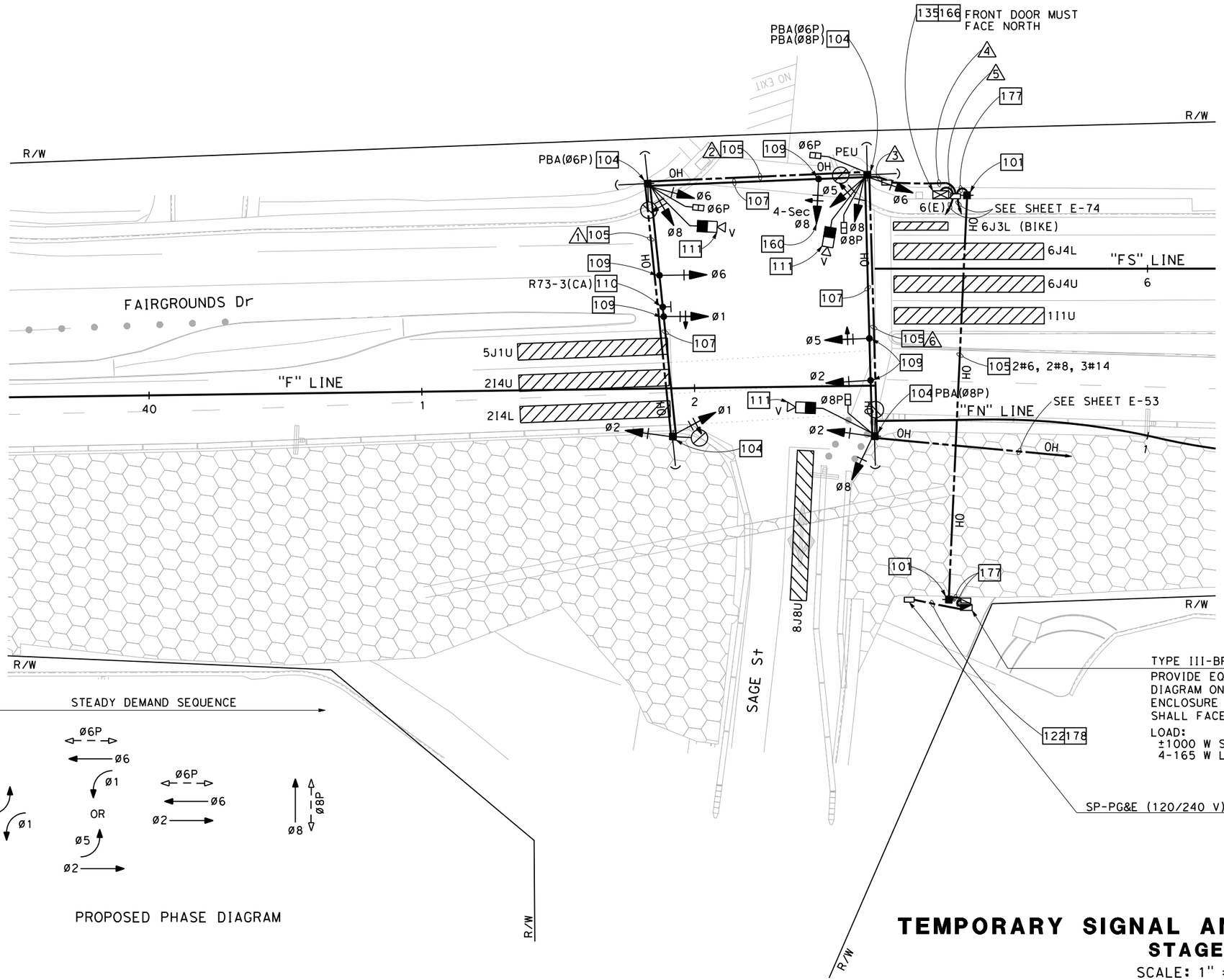
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

TEMPORARY SIGNAL AND LIGHTING (CITY)
STAGE 1
SCALE: 1" = 20'

LOCATION 3
APPROVED FOR ELECTRICAL WORK ONLY

E-60

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN — REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 12:03:25 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS							
	CONDUIT RUN NUMBER							
	1	2	3	4	5	6		
No. 14 CONDUCTORS								
Ø1	3	3	3	3	3			
Ø2	3	3	3	3	3	3		
Ø5			3	3	3	3		
Ø6	3	3	3	3	3			
Ø8		3	3	3	3	3		
Ø6P		2	2	2	2			
Ø8P			2	2	2	2		
PBA(Ø6P)		2	2	2	2			
PBA(Ø8P)			2	2	2	2		
PEU			3	3				
SPARES	3	3	3	3	3	3		
TOTAL No. 14	12	19	29	29	26	16		
No. 8 CONDUCTORS								
LIGHTING	2	2	2	2		2		
SIGNAL NEUTRAL	1	1	1	1	2	1		
TOTAL No. 8	3	3	3	3	2	3		
No. 6 CONDUCTORS								
SIGNAL SERVICE					2			
VIDEO DETECTION CABLE		1	3	3	3	1		
SIC					~~1~~ * 1			
CONDUIT SIZE (INCHES)	OH	OH	4	4	2-3"	OH		
NEW/EXISTING CONDUIT (N/E)	N	N	N	N	N	N		
% FILL			14	14	17			

* = REINSTALL Exist CABLE(S) AS INDICATED

TEMPORARY SIGNAL AND LIGHTING (CITY)
STAGE 1

LOCATION 3

E-61

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
DAN K. YAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 12:03:43 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

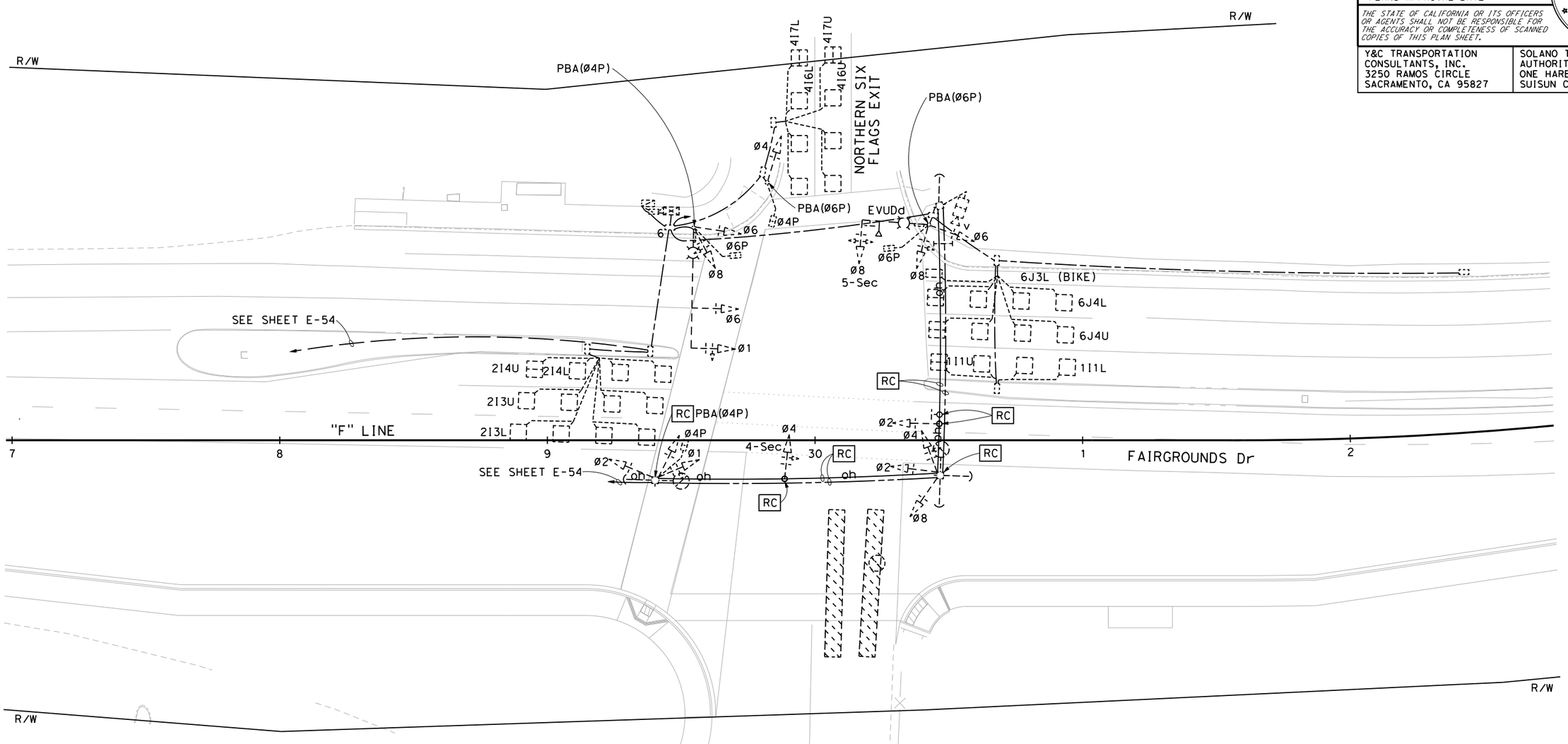
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

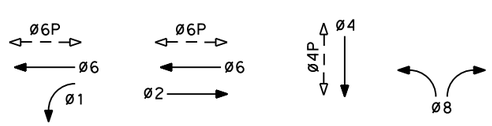
SOLANO TRANSPORTATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



STEADY DEMAND SEQUENCE



EXISTING PHASE DIAGRAM
EVUDd = Ø8
NOTE: Ø4 AND Ø8 MUST BE EXCLUSIVE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

TEMPORARY SIGNAL AND LIGHTING (CITY)
STAGE 2
SCALE: 1" = 20'

LOCATION 2 (EXISTING)
APPROVED FOR ELECTRICAL WORK ONLY

E-62

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 12:06:03 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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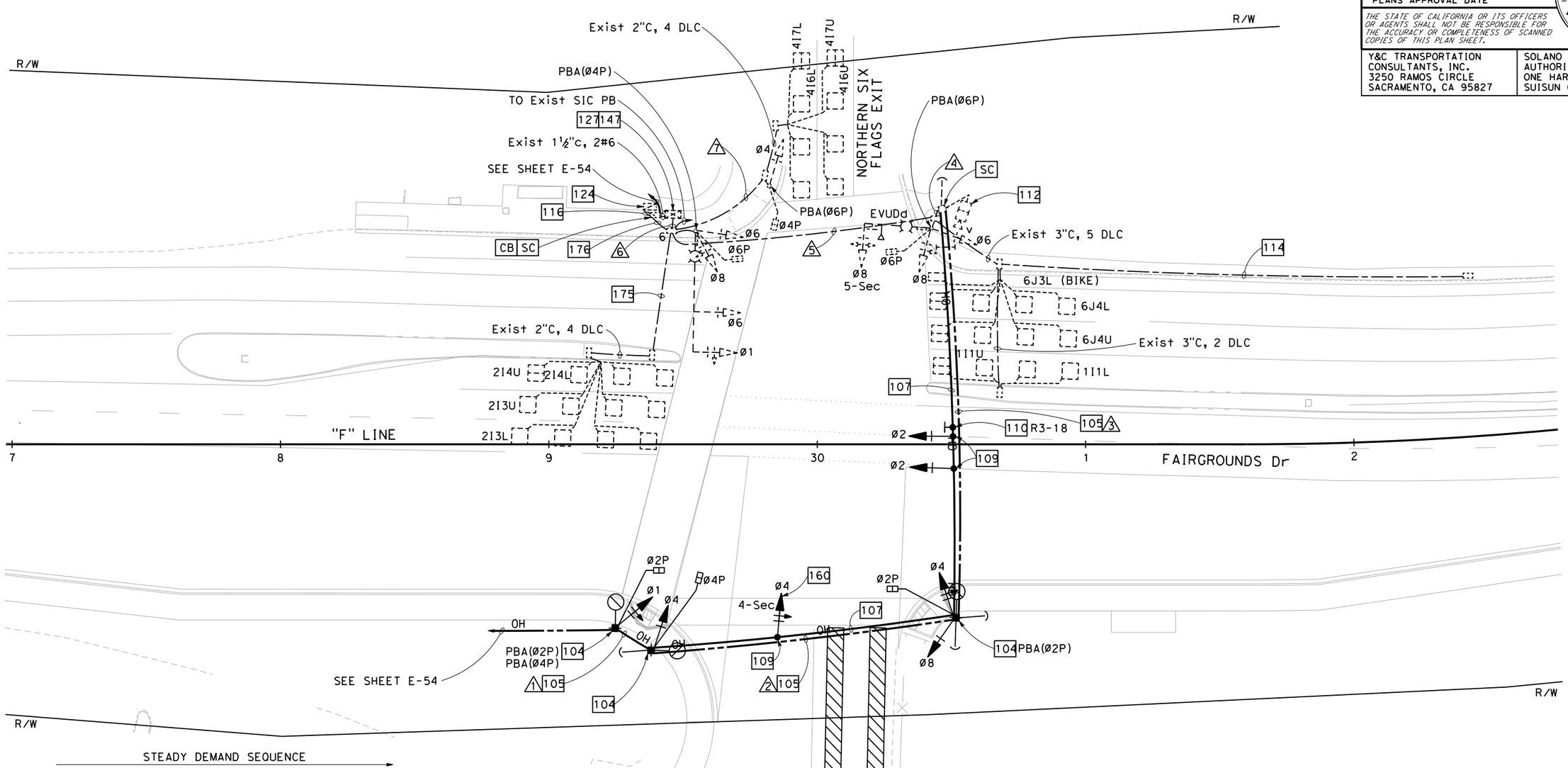
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORTATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



PROPOSED PHASE DIAGRAM
EVUDd = Ø8
NOTE: Ø4 AND Ø8 MUST BE EXCLUSIVE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

TEMPORARY SIGNAL AND LIGHTING (CITY)
STAGE 2
SCALE: 1" = 20'

LOCATION 2
APPROVED FOR ELECTRICAL WORK ONLY

E-63

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

LAST REVISION 08-26-22
DATE PLOTTED => 12/2/2022
TIME PLOTTED => 12:06:08 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS							
	CONDUIT RUN NUMBER							
	1	2	3	4	5	6	7	
No. 14 CONDUCTORS								
Ø1	3	3	3	3	3	3		
Ø2			3	3	3	3		
Ø4		3	3	3	3	6	3	
Ø6					3	3		
Ø8			3	3	3	3		
Ø2P	2	2	2	2+	2+	2+		
Ø4P		2	2	2	2	4	2	
Ø6P					2	2		
PBA(Ø2P)	1	1	1	1+	1+	2+		
PBA(Ø4P)	1	1	1	1	1	2		
PBA(Ø6P)					1	2	1	
PBA COMMON	1	1	1	1	1	2	1	
PEU								
SPARES	3	3	3	3	3	6	3	
TOTAL No. 14	11	16	22	22	28	40	10	
No. 12 CONDUCTORS								
IISNS					2			
No. 8 CONDUCTORS								
LIGHTING	2	2	2	2	2			
SIGNAL NEUTRAL	1	1	1	1	1	2	1	
TOTAL No. 8	3	3	3	3	3	2	1	
No. 6 CONDUCTORS								
STREET LIGHTING	2	2	2	2+	2+			
DETECTOR CABLES (DLC)								
1I1U/1I1L					2	2		
2I3U/2I3L						2		
2I4U/2I4L						2		
4I6U/4I6L						2	2	
4I7U/4I7L						2	2	
6J4U/6J4L					2	2		
6J3L					1	1		
TOTAL DETECTOR CABLES					5	13	4	
EVUC					1	1		
VIDEO DETECTION CABLE				1	1	1		
SIC						2		
CONDUIT SIZE (INCHES)	OH	OH	OH	3	3½	2-4"	1½	
NEW/EXISTING CONDUIT (N/E)	N	N	N	E	E	E	E	
% FILL				15	18	12	27	

+ = ADD CONDUCTOR(S)/CABLE(S) IN Exist CONDUIT AS INDICATED

TEMPORARY SIGNAL AND LIGHTING (CITY)
STAGE 2

LOCATION 2

E-64

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
DAN K. YAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-26-22 | DATE PLOTTED => 12/2/2022 | TIME PLOTTED => 12:06:11 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 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.

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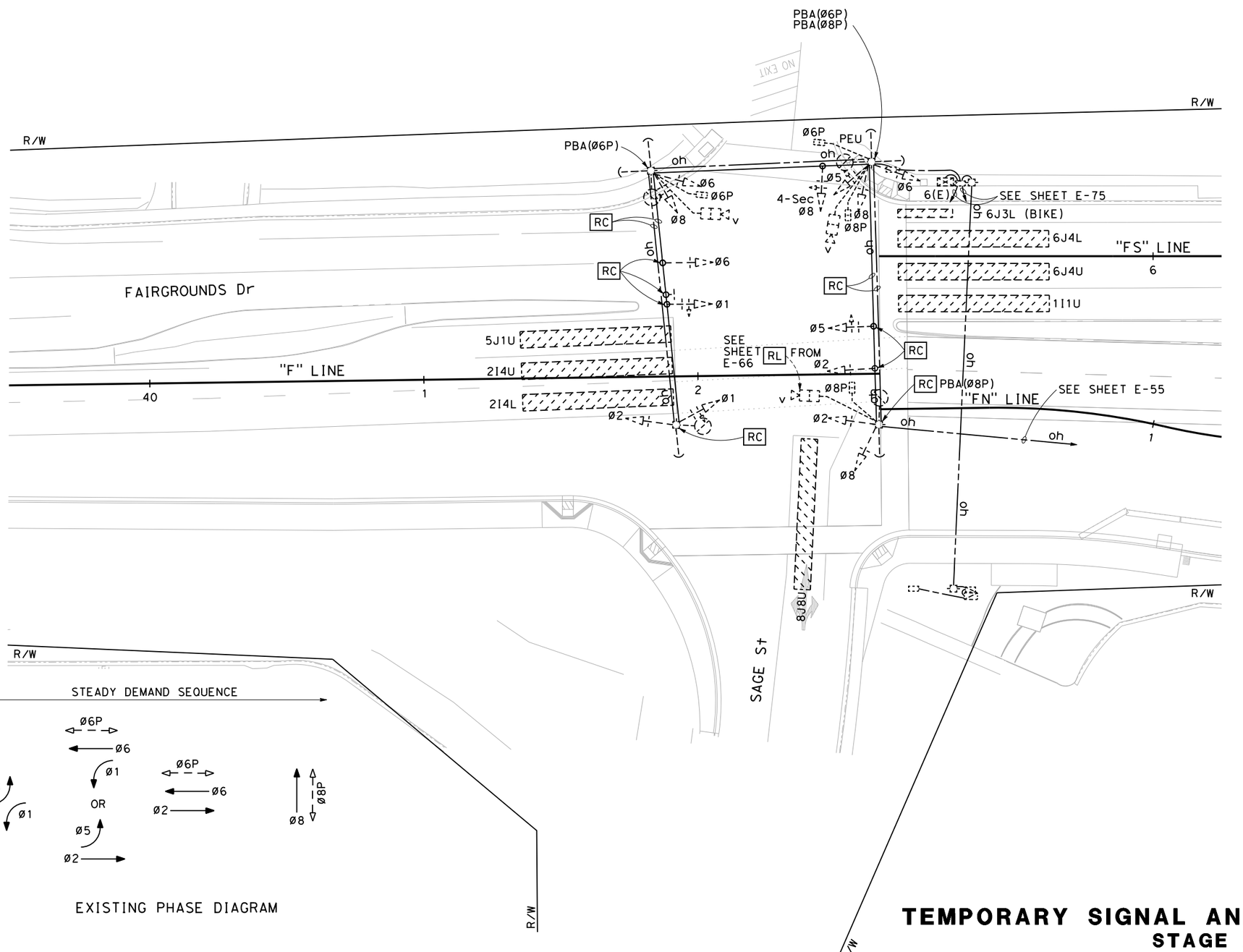
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 3 (EXISTING)

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL AND LIGHTING (CITY)

STAGE 2

SCALE: 1" = 20'

E-65

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 12:06:15 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

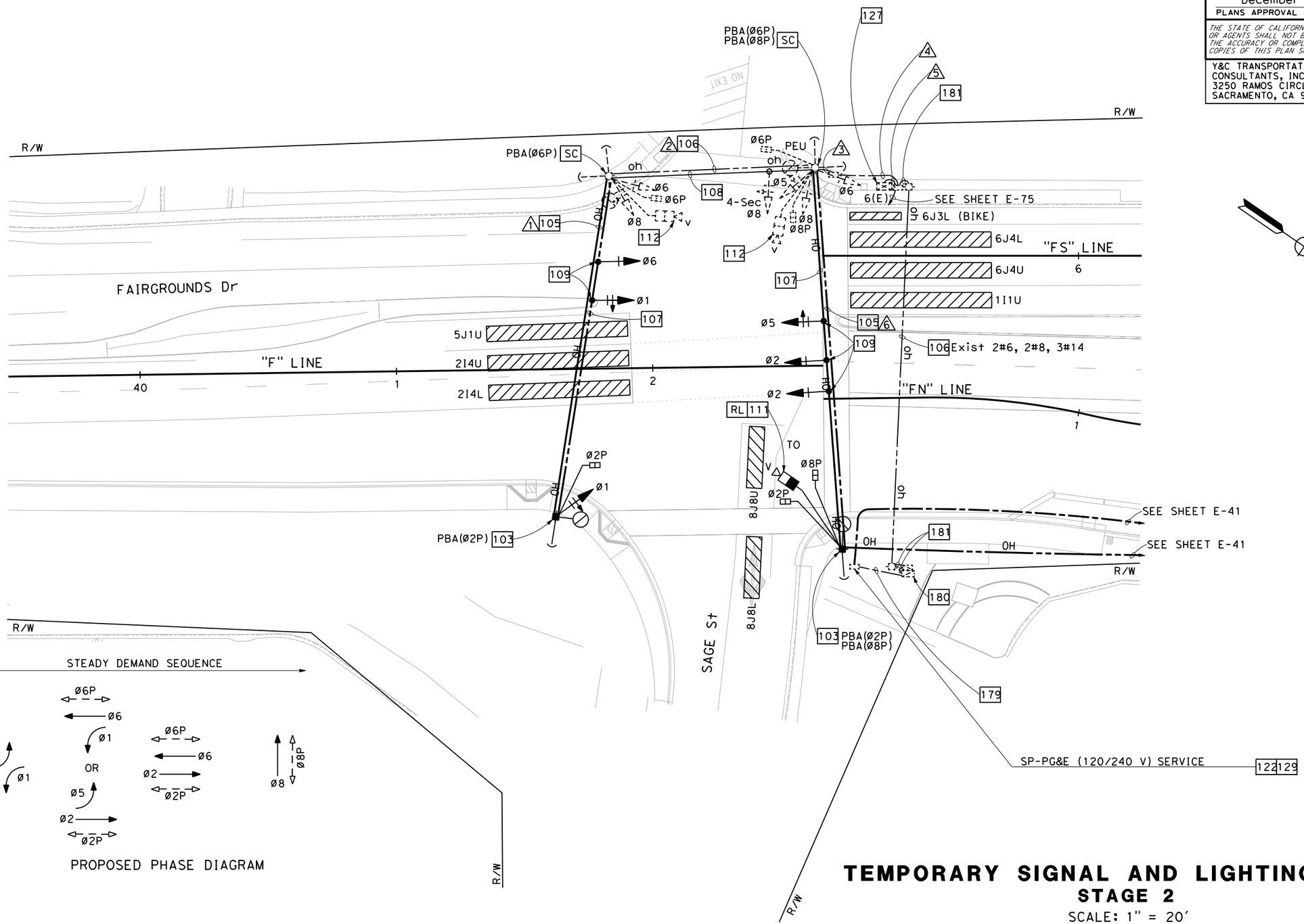
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 3

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL AND LIGHTING (CITY)

STAGE 2

SCALE: 1" = 20'

E-66

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans®

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 12:06:18 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS							
	CONDUIT RUN NUMBER							
	1	2	3	4	5	6		
No. 14 CONDUCTORS								
Ø1	3	3	3	3	3			
Ø2		3-	3	3	3	3		
Ø5			3	3	3	3		
Ø6	3	3	3	3	3			
Ø8		3	3	3	3			
Ø2P	2	2+	2+	2+	2+	2		
Ø6P		2	2	2	2			
Ø8P			2	2	2	2		
PBA(Ø2P)	2	2+	2+	2+	2+	2		
PBA(Ø6P)		2	2	2	2			
PBA(Ø8P)			2	2	2	2		
PEU			3	3				
SPARES	3	3	3	3	3	3		
TOTAL No. 14	13	20	33	33	30	17		
No. 8 CONDUCTORS								
LIGHTING	2	2	2	2		2		
SIGNAL NEUTRAL	1	1	1	1	2	1		
TOTAL No. 8	3	3	3	3	2	3		
No. 6 CONDUCTORS								
SIGNAL SERVICE					2			
VIDEO DETECTION CABLE		1	1*/2	1*/2	1*/2	1		
SIC			1+	1+	1*/1	1		
CONDUIT SIZE (INCHES)	OH	OH	4	4	2-3"	OH		
NEW/EXISTING CONDUIT (N/E)	N	E	E	E	E	N		
% FILL			16	16	18			

\+ = ADD CONDUCTOR(S)/CABLE(S) IN Exist CONDUIT AS INDICATED
\- = REMOVE Exist CONDUCTOR(S)/CABLE(S) IN Exist CONDUIT AS INDICATED
* = REMOVE Exist CONDUCTOR(S)/CABLE(S) AND ADD CONDUCTOR(S)/CABLE(S) IN Exist CONDUIT AS INDICATED

TEMPORARY SIGNAL AND LIGHTING (CITY)
STAGE 2

LOCATION 3

E-67

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
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SUISUN CITY, CA 94585

NOTE:

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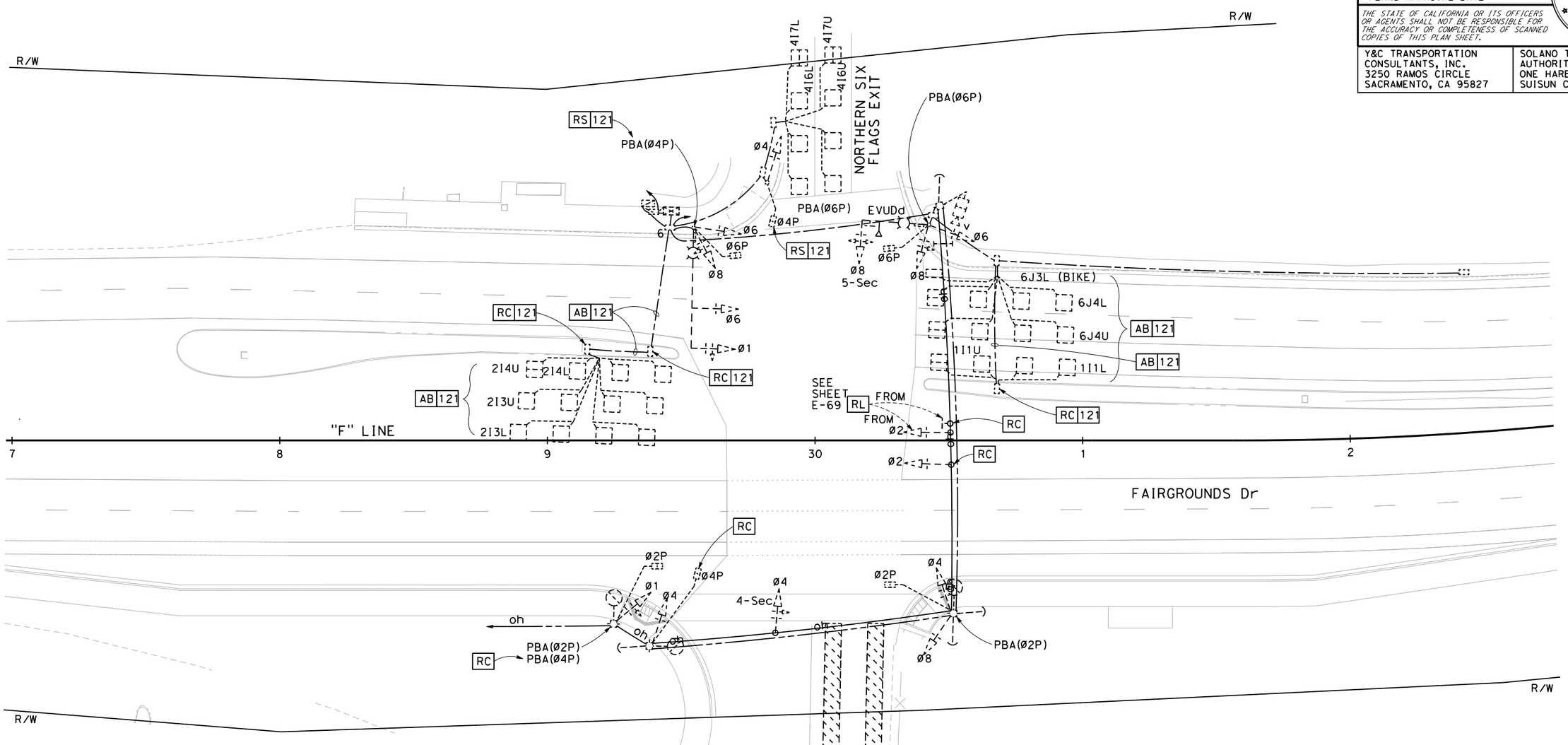

EXISTING PHASE DIAGRAM
EVUDd = Ø8
NOTE: Ø4 AND Ø8 MUST BE EXCLUSIVE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

TEMPORARY SIGNAL AND LIGHTING (CITY)
STAGE 3c TO STAGE 4
SCALE: 1" = 20'

LOCATION 2 (EXISTING)
APPROVED FOR ELECTRICAL WORK ONLY

E-68

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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TIME PLOTTED => 12:06:37 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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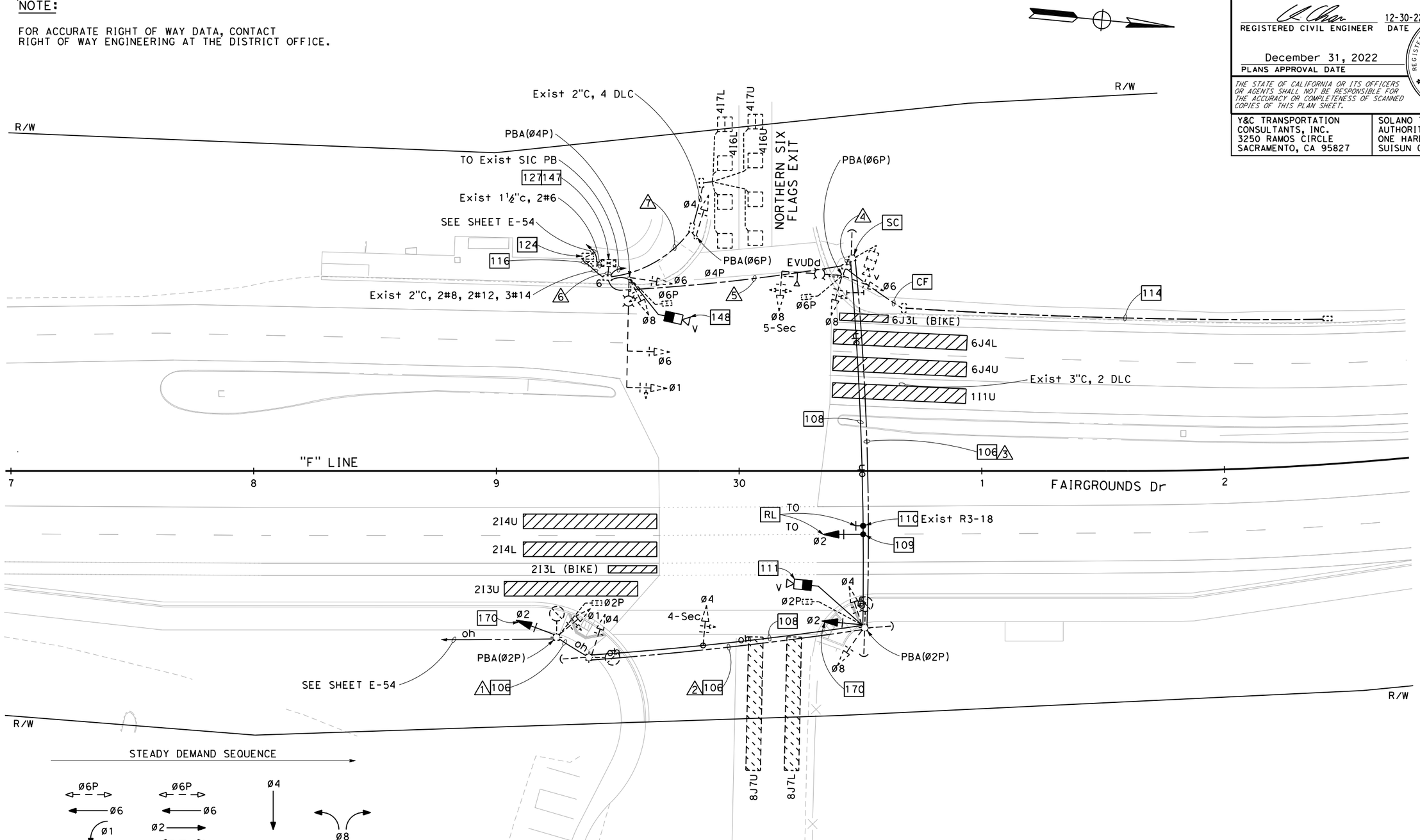

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

TEMPORARY SIGNAL AND LIGHTING (CITY)
STAGE 3c TO STAGE 4
SCALE: 1" = 20'

LOCATION 2
APPROVED FOR ELECTRICAL WORK ONLY

E-69

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS							
	CONDUIT RUN NUMBER							
	1	2	3	4	5	6	7	
No. 14 CONDUCTORS								
Ø1	3	3	3	3	3	3		
Ø2	3+	3+	3	3	3	3		
Ø4		3	3	3	3	6	3	
Ø6					3	3		
Ø8			3	3	3	3		
Ø2P	2	2	2	2	2	2		
Ø4P		2-	2-	2-	2-	4-	2-	
Ø6P					2	2		
PBA(Ø2P)	1	1	1	1	1	2		
PBA(Ø4P)	1-	1-	1-	1-	1-	2-		
PBA(Ø6P)					1	2	1	
PBA COMMON	1	1	1	1	1	2	1	
PEU								
SPARES	3	3	3	3	3	6	3	
TOTAL No. 14	13	16	19	19	25	34	8	
No. 12 CONDUCTORS								
IISNS					2			
No. 8 CONDUCTORS								
LIGHTING	2	2	2	2	2			
SIGNAL NEUTRAL	1	1	1	1	1	2	1	
TOTAL No. 8	3	3	3	3	3	2	1	
No. 6 CONDUCTORS								
STREET LIGHTING	2	2	2	2	2			
DETECTOR CABLES (DLC)								
1I1U/1I1L					2-	2-		
2I3U/2I3L						2-		
2I4U/2I4L						2-		
4I6U/4I6L						2	2	
4I7U/4I7L						2	2	
6J4U/6J4L					2-	2-		
6J3L					1-	1-		
TOTAL DETECTOR CABLES						4	4	
EVUC					1	1		
VIDEO DETECTION CABLE			1+ / 1+	1+ / 1+	1+ / 1+	2+ / 1+		
SIC						2		
CONDUIT SIZE (INCHES)	OH	OH	OH	3	3½	2-4"	1½	
NEW/EXISTING CONDUIT (N/E)	E	E	E	E	E	E	E	
% FILL				19	17	12	25	

+ = ADD CONDUCTOR(S)/CABLE(S) IN Exist CONDUIT AS INDICATED
- = REMOVE CONDUCTOR(S)/CABLE(S) IN Exist CONDUIT AS INDICATED

TEMPORARY SIGNAL AND LIGHTING (CITY)
STAGE 3c TO STAGE 4

LOCATION 2

E-70

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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SUISUN CITY, CA 94585

NOTE:

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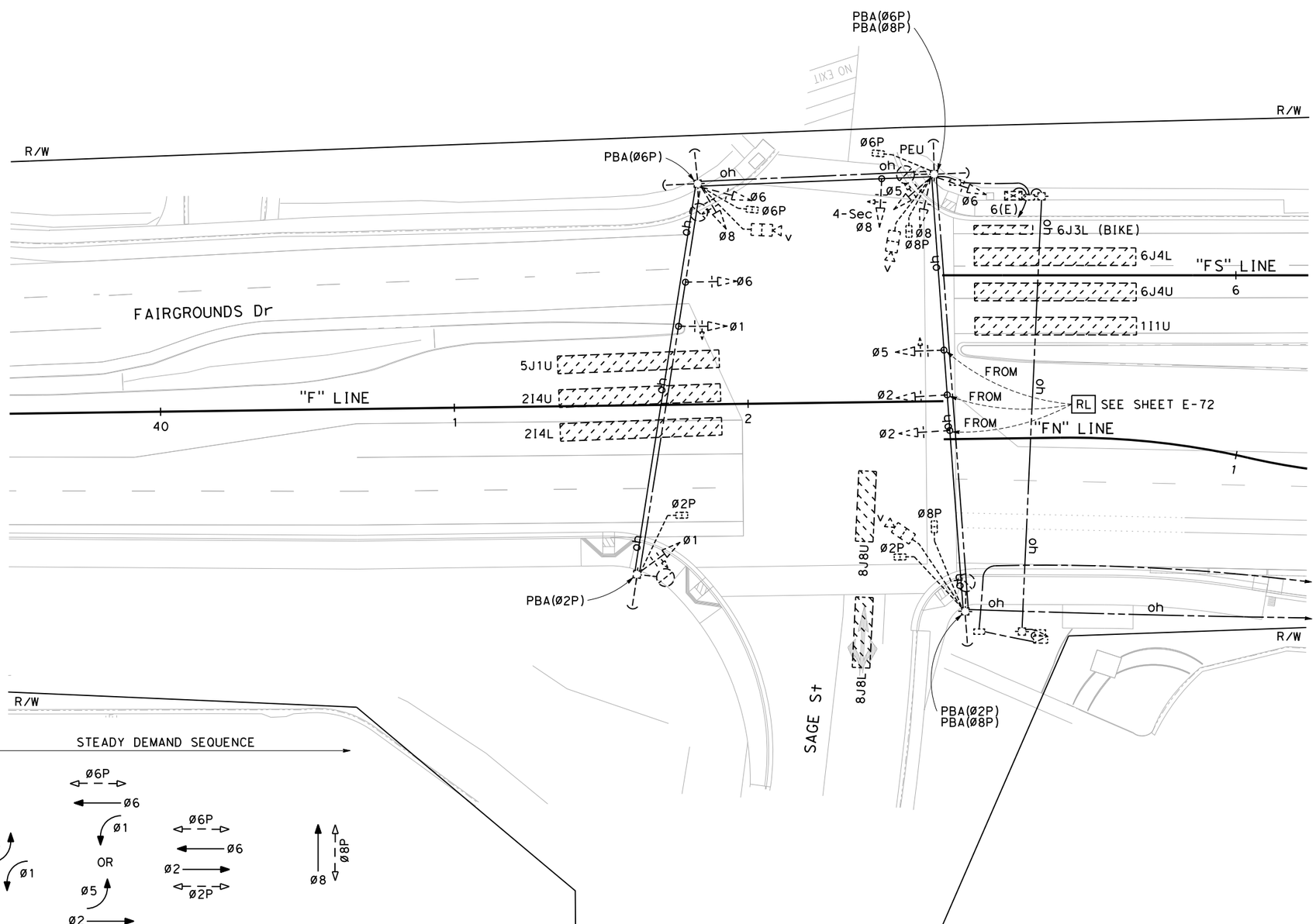

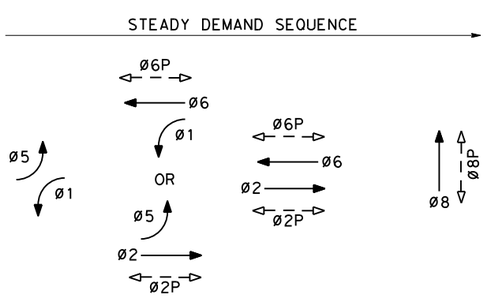

EXISTING PHASE DIAGRAM

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 3 (EXISTING)

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL AND LIGHTING (CITY)

STAGE 3c TO STAGE 4

SCALE: 1" = 20'

E-71

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: KIN Y. CHAN — CHECKED BY

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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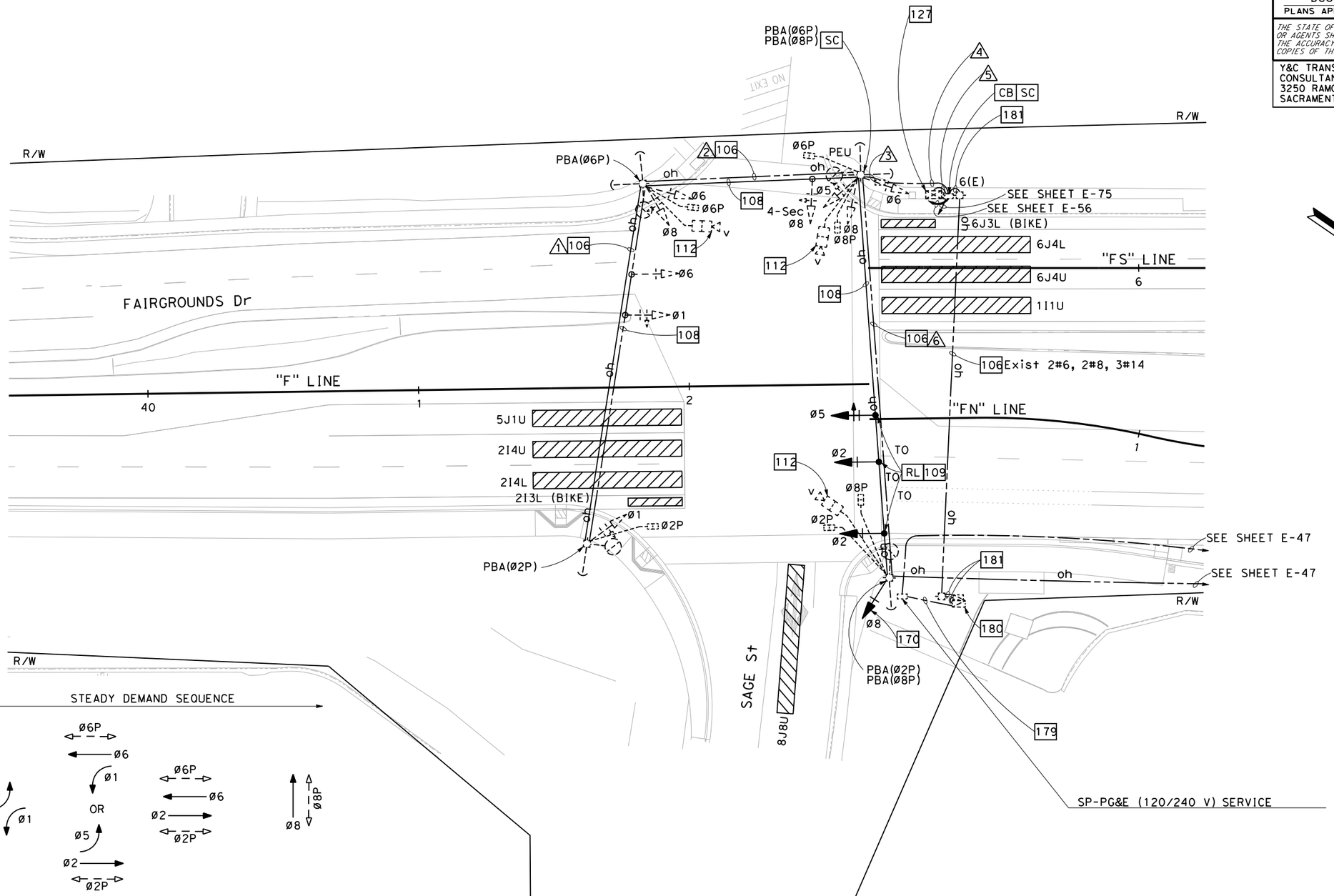

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

LOCATION 3

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL AND LIGHTING (CITY)

STAGE 3c TO STAGE 4

SCALE: 1" = 20'

E-72

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER 12-30-22 DATE

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA

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ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR DESIGNATION	No. OF CONDUCTORS							
	CONDUIT RUN NUMBER							
	1	2	3	4	5	6		
No. 14 CONDUCTORS								
Ø1	3	3	3	3	3			
Ø2			3	3	3	3		
Ø5			3	3	3	3		
Ø6	3	3	3	3	3			
Ø8		3	3	3	3	3+		
Ø2P	2	2	2	2	2	2		
Ø6P		2	2	2	2			
Ø8P			2	2	2	2		
PBA(Ø2P)	2	2	2	2	2	2		
PBA(Ø6P)		2	2	2	2			
PBA(Ø8P)			2	2	2	2		
PEU			3	3				
SPARES	3	3	3	3	3	3		
TOTAL No. 14	13	20	33	33	30	20		
No. 8 CONDUCTORS								
LIGHTING	2	2	2	2		2		
SIGNAL NEUTRAL	1	1	1	1	2	1		
TOTAL No. 8	3	3	3	3	2	3		
No. 6 CONDUCTORS								
SIGNAL SERVICE					2			
VIDEO DETECTION CABLE		1	3	3	3	1		
SIC			1	1	2	1		
CONDUIT SIZE (INCHES)	OH	OH	4	4	2-3"	OH		
NEW/EXISTING CONDUIT (N/E)	E	E	E	E	E	E		
% FILL			16	16	18			

+ = ADD CONDUCTOR(S)/CABLE(S) IN Exist CONDUIT AS INDICATED

TEMPORARY SIGNAL AND LIGHTING (CITY)
STAGE 3c TO STAGE 4

LOCATION 3

E-73

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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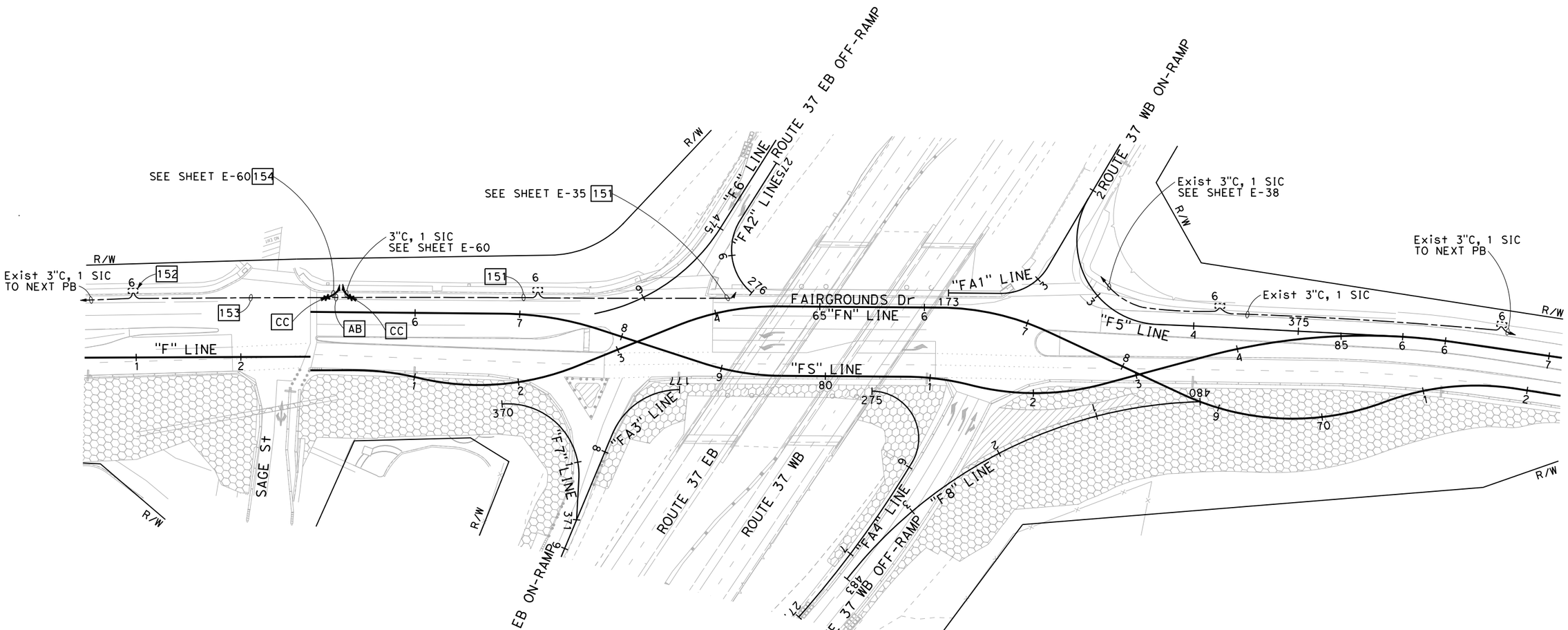

TEMPORARY INTERCONNECTION CONDUIT AND CABLE (CITY)

STAGE 1

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

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E-74

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

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04	Sol	37	10.9		

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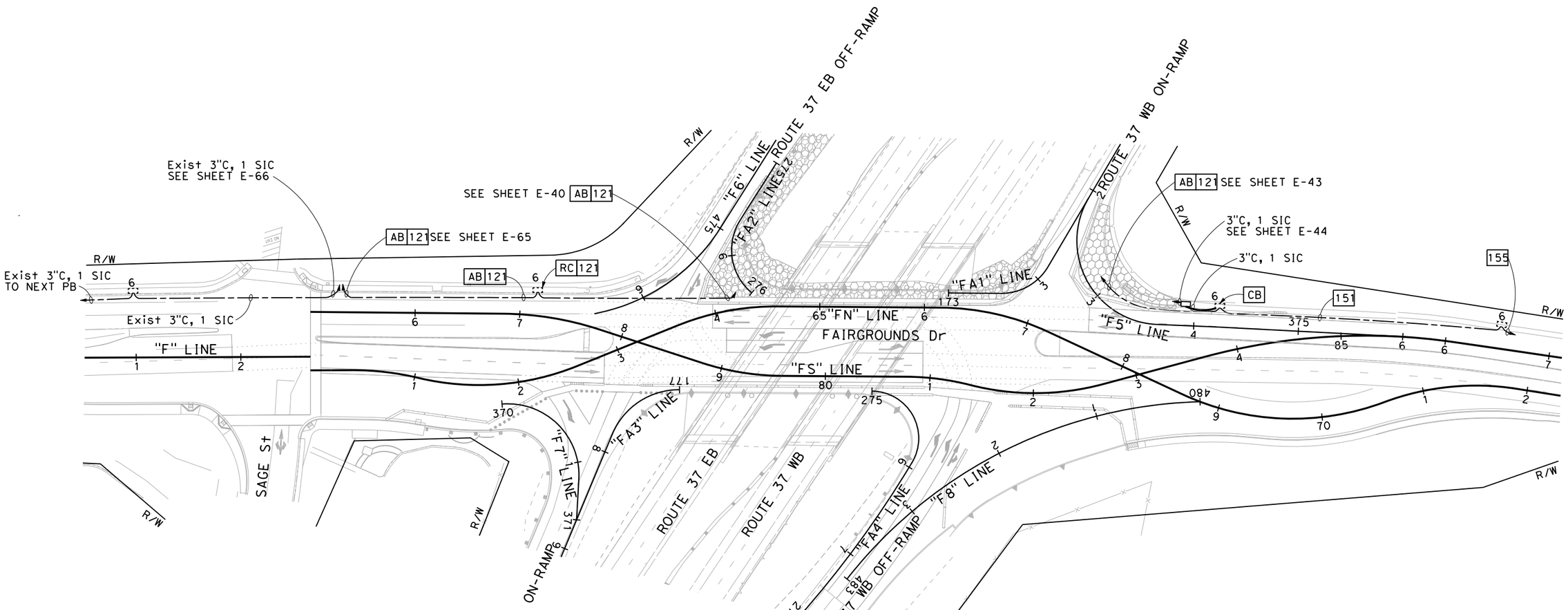

TEMPORARY INTERCONNECTION CONDUIT AND CABLE (CITY)

STAGE 2 TO STAGE 4

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3, E-29 TO E-30

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E-75

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

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December 31, 2022
PLANS APPROVAL DATE

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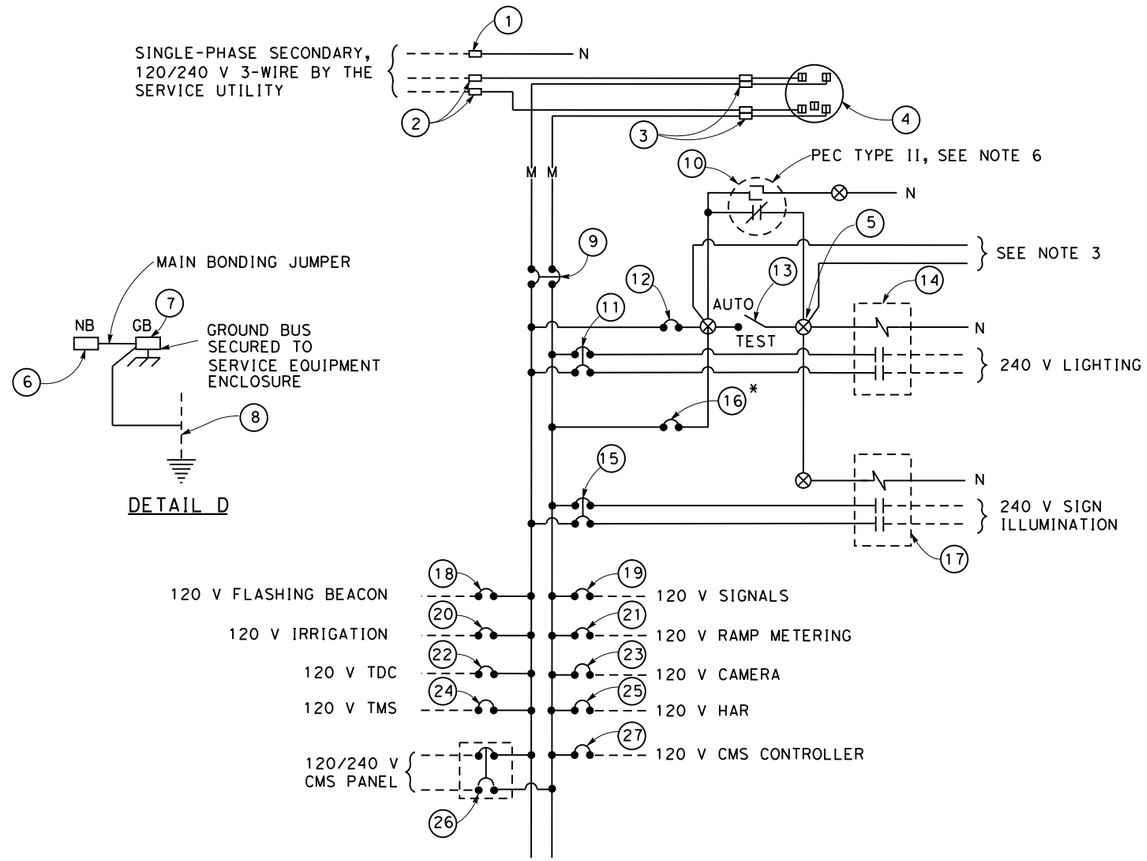
SUISUN CITY, CA 94585



DETAIL D

120/240 V SERVICE WIRING DIAGRAM (TYPICAL)

DETAIL C

NOTES: (FOR THIS SHEET ONLY)

1. VOLTAGE RATINGS OF SERVICE EQUIPMENT MUST CONFORM TO THE SERVICE VOLTAGES INDICATED ON THE PLANS.
2. UNLESS OTHERWISE INDICATED ON THE PLANS, SERVICE EQUIPMENT ITEMS MUST BE PROVIDED FOR EACH SERVICE EQUIPMENT ENCLOSURE AS SHOWN.
3. CONNECT TO REMOTE TEST SWITCH MOUNTED ON SIGN POST OR STRUCTURE WHEN REQUIRED.
4. METER SOCKETS MUST MEET SERVICE UTILITY REQUIREMENTS.
5. THE LANDING LUG MUST BE SUITABLE FOR MULTIPLE CONDUCTORS.
6. PHOTOELECTRIC CONTROL MUST BE TYPE II.
7. SERVICE UTILITY WILL INSTALL THE TIME-OF-USE METER IF APPLICABLE.
8. UNLESS OTHERWISE NOTED, THE MAXIMUM NUMBER OF SINGLE-POLE CIRCUIT BREAKER SPACES IN THE ENCLOSURE IS FOURTEEN.
9. SEE STANDARD PLAN RSP ES-2D FOR OTHER DETAILS.

TYPE III-AF SERVICE EQUIPMENT ENCLOSURE LEGEND (120/240 V)

ITEM No.	COMPONENT	NAMEPLATE DESCRIPTION	ITEM No.	COMPONENT	NAMEPLATE DESCRIPTION
1	NEUTRAL LUG		15	30 A, 240 V, 2P, CB	SIGN ILLUMINATION
2	LANDING LUG		16	15 A, 120 V, 1P, CB	SIGN ILLUMINATION CONTROL
3	TEST BYPASS FACILITY		17	30 A, 2P, NO CONTACTOR	
4	METER SOCKET AND SUPPORT		18	15 A, 120 V, 1P, CB	FLASHING BEACON
5	TERMINAL BLOCK		19	50 A, 120 V, 1P, CB	SIGNALS
6	NEUTRAL BUS		20	20 A, 120 V, 1P, CB	IRRIGATION
7	GROUND BUS		21	30 A, 120 V, 1P, CB	RAMP METERING
8	GROUNDING ELECTRODE		22	20 A, 120 V, 1P, CB	TELEPHONE DEMARCATION CABINET
9	100 A, 240 V, 2P, CB	MAIN BREAKER	23	30 A, 120 V, 1P, CB	CAMERA SYSTEM
10	PHOTOELECTRIC UNIT (NOTE 6)		24	30 A, 120 V, 1P, CB	TMS
11	30 A, 240 V, 2P, CB	LIGHTING	25	30 A, 120 V, 1P, CB	HAR
12	15 A, 120 V, 1P, CB	LIGHTING CONTROL	26	30 A, 240 V, 2P, CB	CMS PANEL
13	15 A, 120 V, 1P, TEST SWITCH	TEST SWITCH	27	30 A, 120 V, 1P, CB	CMS CONTROLLER
14	60 A, 2P, NO CONTACTOR				

* PROVIDE ITEM 12 WHEN BOTH CIRCUITS OF SIGN ILLUMINATION AND LIGHTING ARE USED. ITEM 16 IS NOT REQUIRED.

ELECTRICAL SYSTEMS DETAILS
(SERVICE EQUIPMENT AND TYPICAL WIRING DIAGRAM TYPE III-A SERIES)

NO SCALE

ED-1

REVISED BY	DATE REVISED
ANSON HUYNH	KIN Y. CHAN

CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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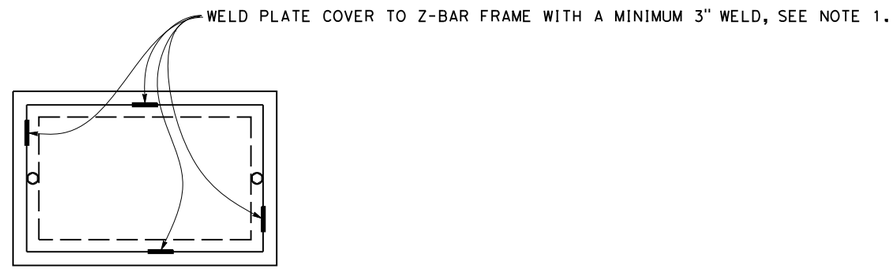
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTES:

1. WELDING MUST COMPLY WITH STANDARD SPECIFICATION SECTION 75.
2. CONDUITS ENTERING THE PULL BOX MUST BE ENCASED IN PCC (3" ALL AROUND), PCC ENCASEMENT MUST EXTEND 5'-6" FROM THE PULL BOX.
3. FOR ADDITIONAL NOTES AND DETAILS, SEE STANDARD PLANS RSP ES-8B.



TOP VIEW

TRAFFIC PULL BOX WELDING DETAIL

ELECTRICAL SYSTEMS DETAILS
(TRAFFIC PULL BOX)

NO SCALE

ED-2

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
ANSON HUYNH	KIN Y. CHAN

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

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04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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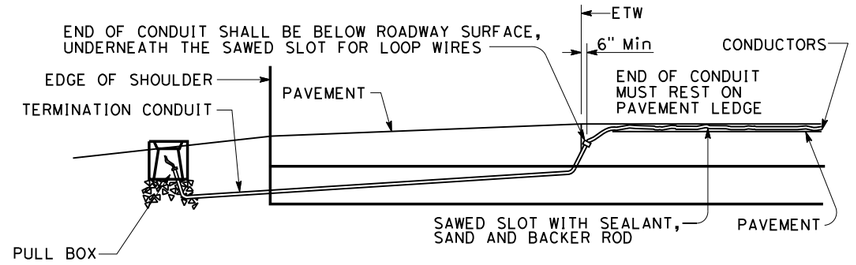
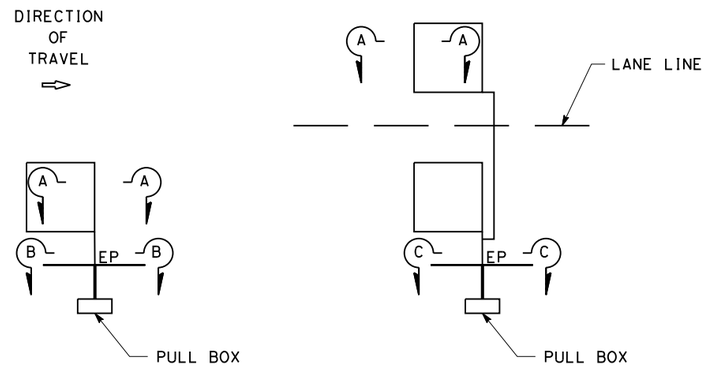


CROSS SECTION

SHOULDER TERMINATION DETAILS

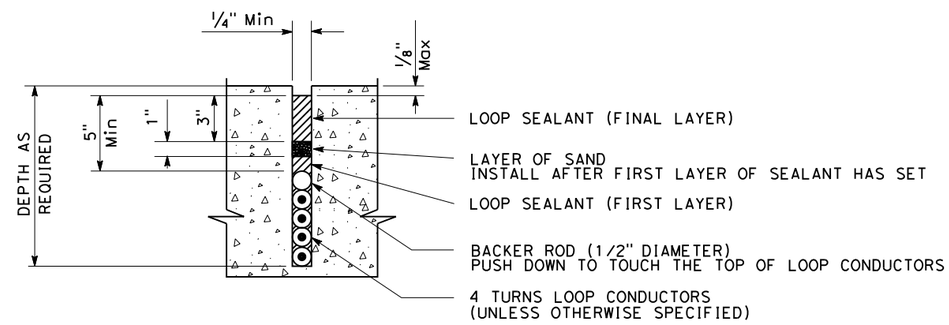
SEE RSP ES-5D FOR MORE INFORMATION



TYPE 1 INSTALLATION

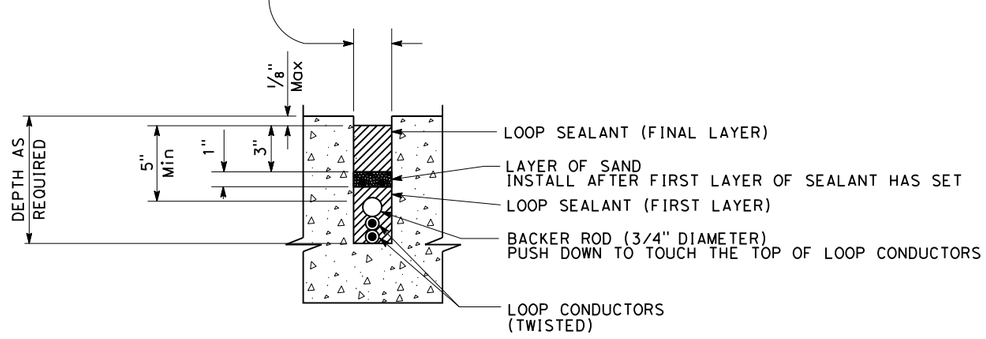
TYPE 2 INSTALLATION

SAWCUT DETAILS

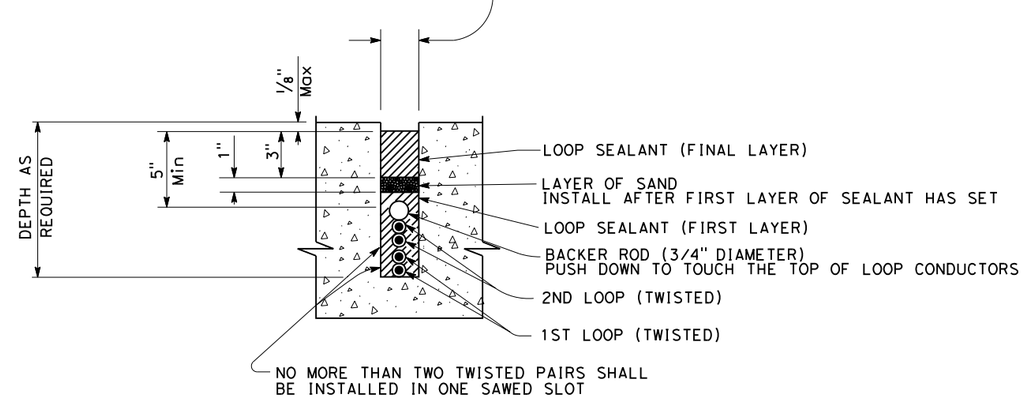


SECTION A-A

5/16" Min TO 1/2" Max FOR TYPE 1 LOOP CONDUCTOR
5/8" Max TO 1/2" Min FOR TYPE 2 LOOP CONDUCTOR



SECTION B-B



SECTION C-C

SLOT DETAILS

DETECTOR INSTALLATION DETAILS

SEE ES-5A AND RSP ES-5B FOR MORE INFORMATION

ELECTRICAL SYSTEMS DETAILS
(DEEP LOOP DETECTOR INSTALLATION AND SHOULDER TERMINATION)

NO SCALE

ED-3

REVISED BY	DATE REVISED
ANSON HUYNH	KIN Y. CHAN
CALCULATED-DESIGNED BY	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	DAN K. YAU

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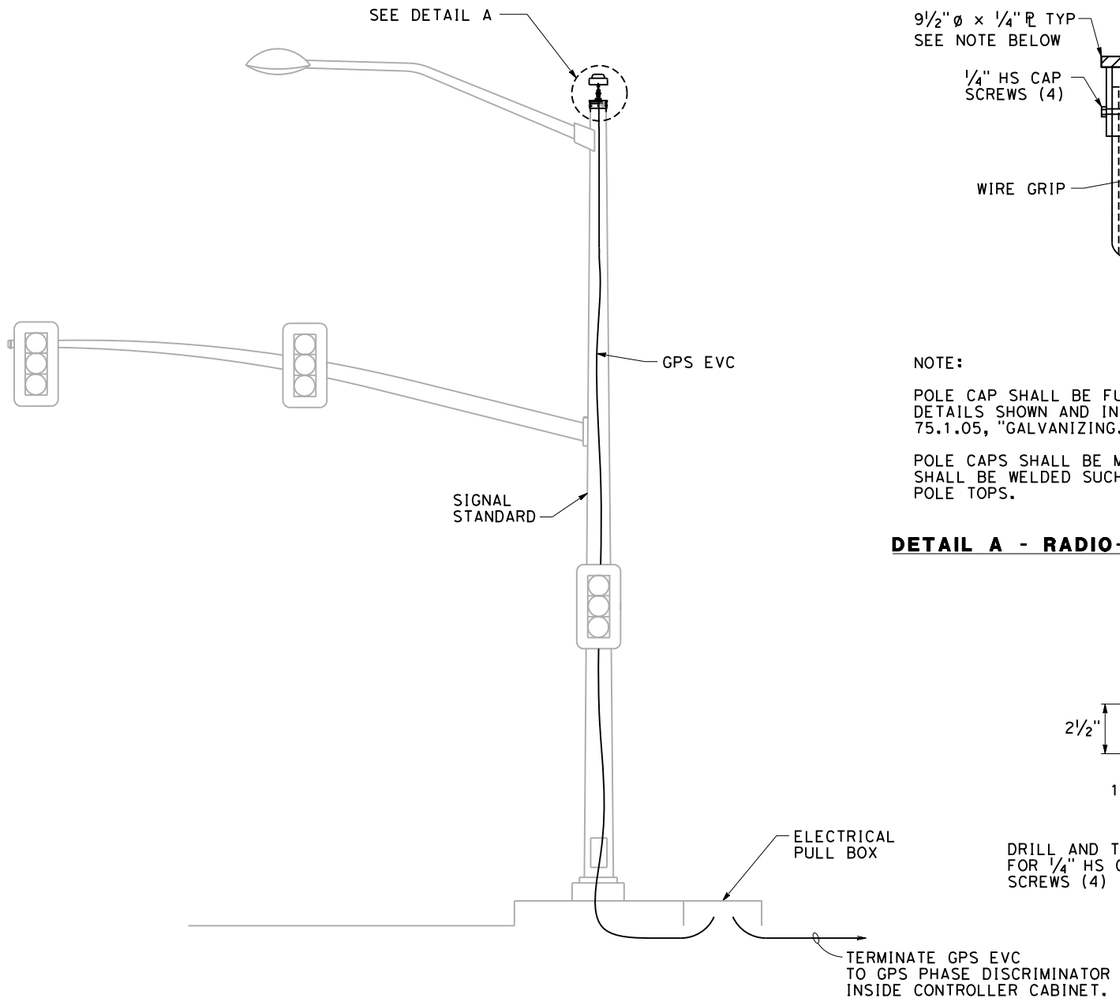
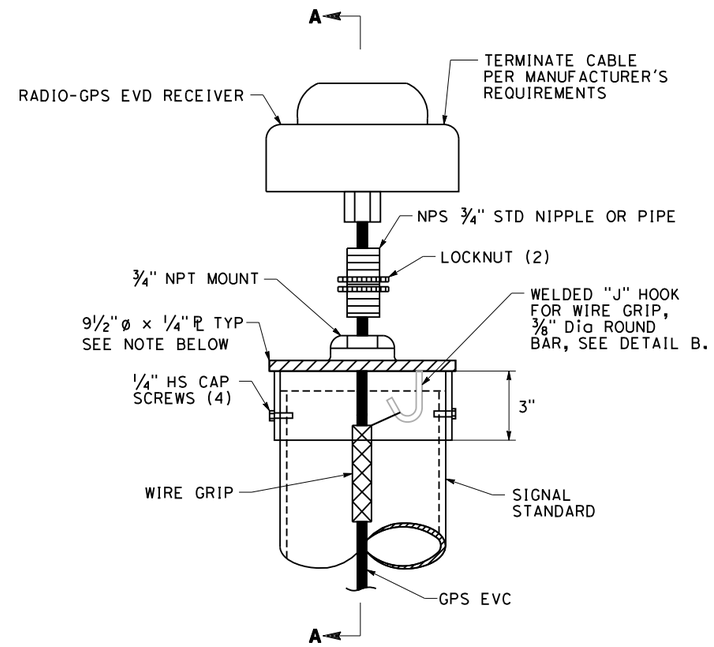


RADIO-GPS EVD RECEIVER MOUNTING DETAIL ON SIGNAL STANDARD
NO SCALE

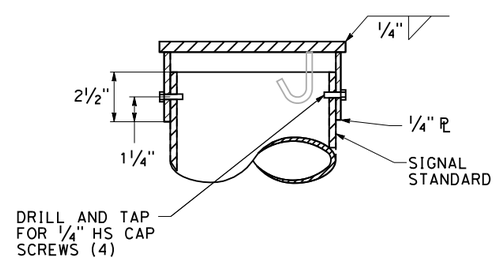


NOTE:

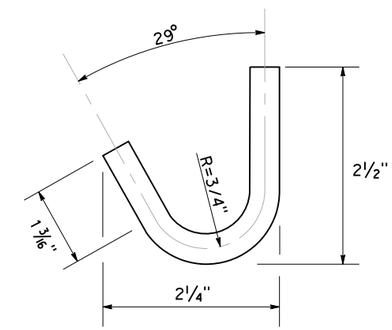
POLE CAP SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN AND IN CONFORMANCE WITH THE PROVISIONS IN SECTION 75.1.05, "GALVANIZING."

POLE CAPS SHALL BE MANUFACTURED FOR EACH POLE TYPE. "J" HOOK SHALL BE WELDED SUCH THAT IT FITS INSIDE THE VARIOUS DIAMETER POLE TOPS.

DETAIL A - RADIO-GPS EVD RECEIVER MOUNTING DETAIL
NO SCALE



SECTION A-A
NO SCALE



DETAIL B - J HOOK
NO SCALE

INSTALLATION INSTRUCTIONS FOR RADIO-GPS EVD RECEIVER

1. THE MOUNTING LOCATION SHALL BE THE NEAREST SIGNAL STANDARD TO THE CONTROLLER CABINET. THE CABLE RUN FROM THE RADIO-GPS EVD RECEIVER TO THE PHASE DISCRIMINATOR (LOCATED IN THE CONTROLLER CABINET) SHALL NOT EXCEED 250 FEET. SEE TABLE A FOR POLE TYPES.
2. CONTRACTOR MUST PROVIDE A 3/4-INCH NPT INTERNAL THREAD MOUNT. MOUNTING BRACKETS, NIPPLES , PIPE AND LOCK NUTS AS SPECIFIED.
3. SCREW A NIPPLE OR PIPE INTO THE BASE OF THE RADIO-GPS EVD RECEIVER. USE PIPE THREAD TAPE TO WATERPROOF THE JOINT.
4. LOOSEN THE TWO COVER SCREWS AND REMOVE THE WIRING COVER.
5. ROUTE THE EVC FROM THE RADIO-GPS EVD RECEIVER MOUNTING LOCATION TO THE CONTROLLER CABINET. THE CABLE ENTERS THE RADIO-GPS EVD RECEIVER THROUGH THE NIPPLE OR PIPE AT THE BASE OF THE RECEIVER.

ELECTRICAL SYSTEMS DETAILS
(RADIO-GPS EVD RECEIVER MOUNTING DETAIL)
NO SCALE

ED-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

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04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

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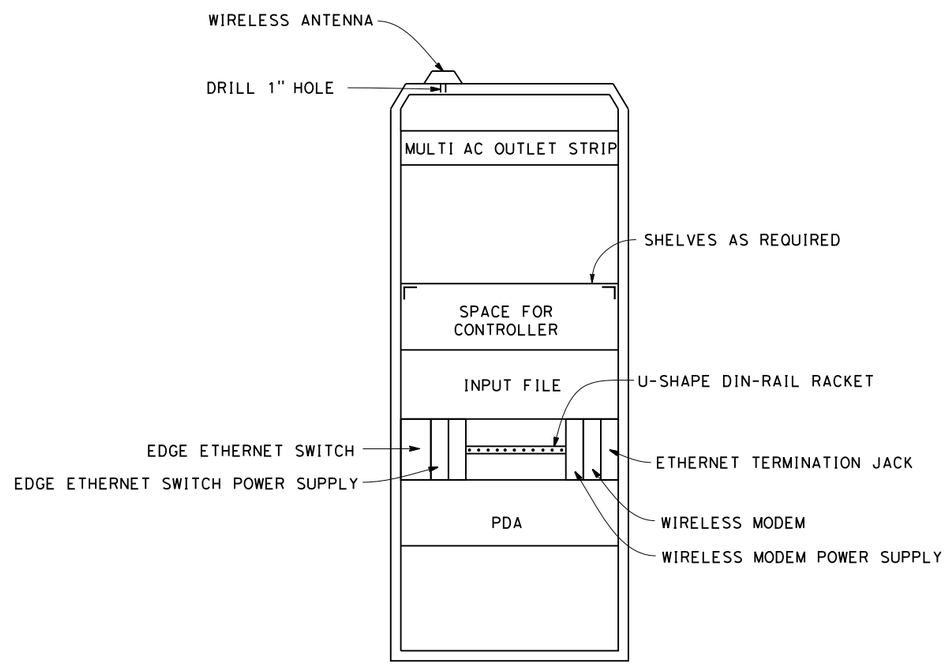

FRONT VIEW

MODEL 334L CONTROLLER CABINET WITH WIRELESS COMMUNICATION, PDA & INPUT FILE LAYOUT (Typ)

DIN-RAIL MOUNTED EQUIPMENT AS REQUIRED

PDA - POWER DISTRIBUTION ASSEMBLY

ELECTRICAL SYSTEMS DETAILS
(CELLULAR DATA MODEM ASSEMBLY)

NO SCALE

ED-5

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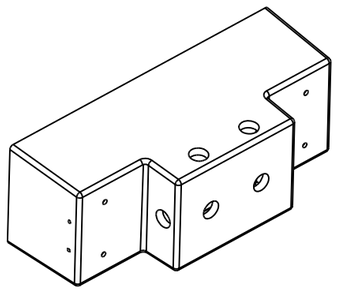
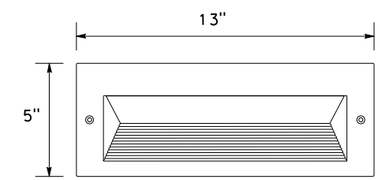
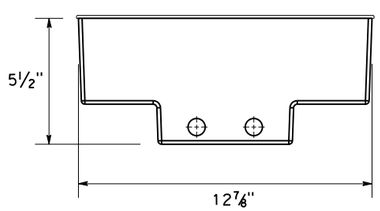


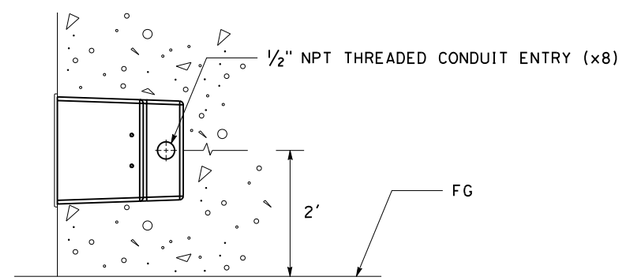
ISOMETRIC VIEW OF INSTALLATION HOUSE



FRONT VIEW

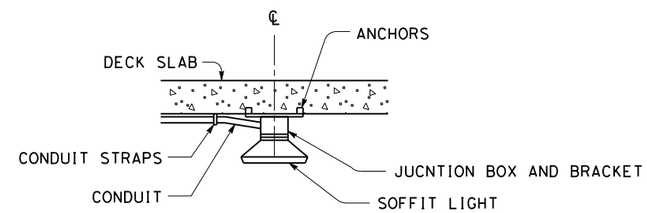


TOP VIEW



SIDE VIEW

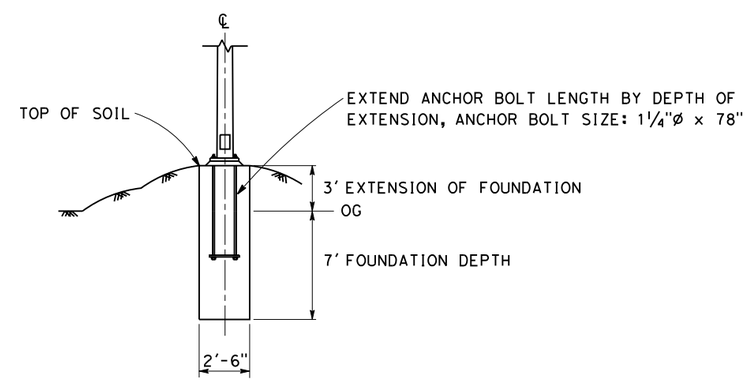
CITY LED RECESSED WALL LUMINAIRE DETAILS



CITY LED SOFFIT LIGHT DETAIL

NOTES:

1. INSTALL SOFFIT LIGHT PER MANUFACTURER RECOMMENDATION.
2. IN ORDER TO PROTECT THE EXISTING REINFORCING STEEL IN BRIDGE STRUCTURE, NON-DESTRUCTIVE TESTING MUST BE PERFORMED PRIOR TO DRILLING FOR CONCRETE ANCHORS FOR THE MOUNTING OF LIGHTS OR CONDUITS TO ANY PART OF THE STRUCTURE.



CITY LIGHT POLE IN MEDIAN IN LANDSCAPE AREA DETAIL

NOTE: SEE CALTRANS STANDARD PLAN ES-6D FOR OTHER DETAILS NOT SHOWN

ELECTRICAL SYSTEMS DETAILS

NO SCALE

ED-6

REVISED BY	DATE REVISED
ANSON HUYNH	KIN Y. CHAN

CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

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REGISTERED PROFESSIONAL ENGINEER KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA

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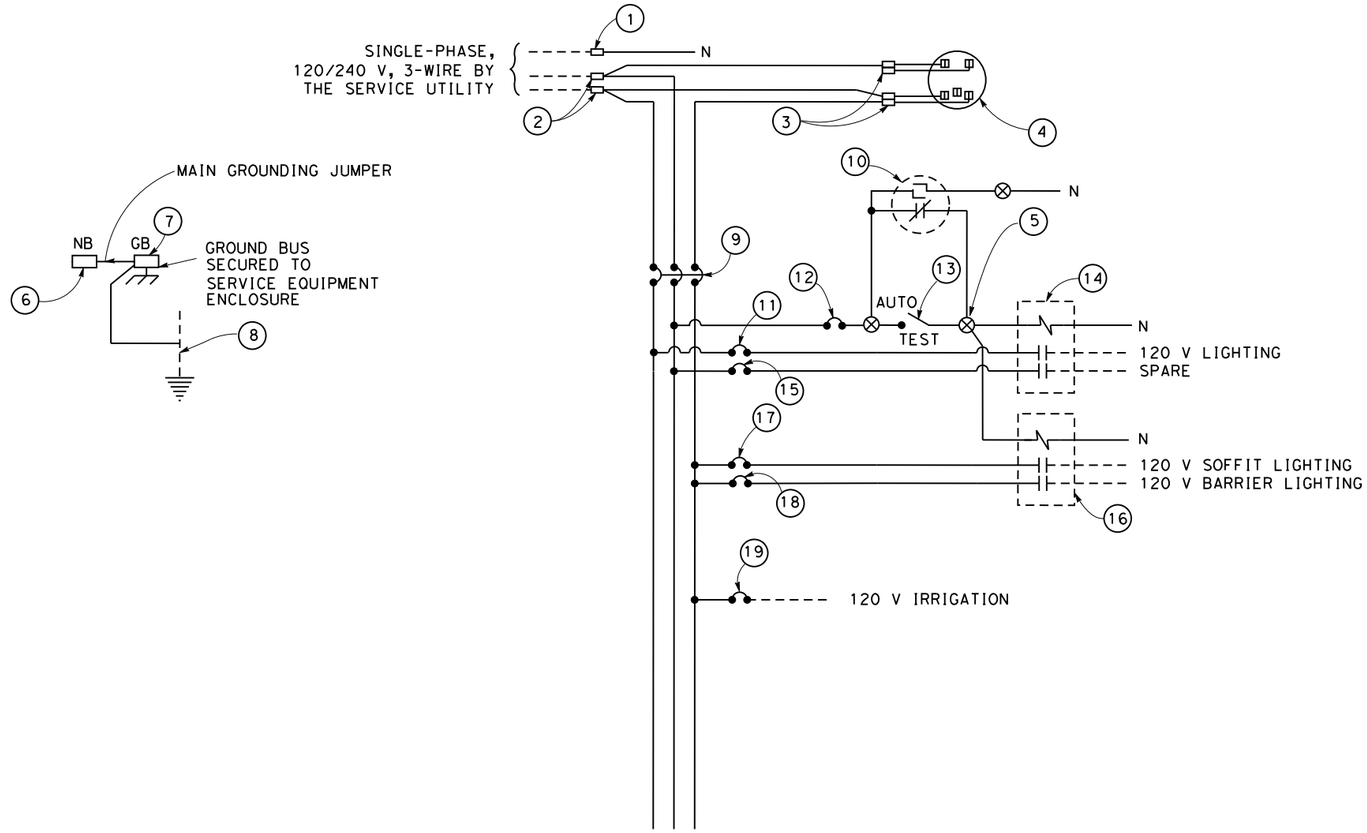

CITY 120/240 V METERED AND UNMETERED SERVICE WIRING DIAGRAM FOR LIGHTING WITH IRRIGATION

TYPE III-BF SERVICE EQUIPMENT ENCLOSURE LEGEND (120/240 V)					
ITEM No.	COMPONENT	NAMEPLATE DESCRIPTION	ITEM No.	COMPONENT	NAMEPLATE DESCRIPTION
1	NEUTRAL LUG		11	30 A, 120 V, 1P, CB	LIGHTING
2	LANDING LUG		12	15 A, 120 V, 1P, CB	LIGHTING CONTROL
3	TEST BYPASS FACILITY		13	15 A, 120 V, 1P, TEST SWITCH	TEST SWITCH
4	METER SOCKET AND SUPPORT		14	60 A, 2P, NO CONTACTOR	UNMETERED LIGHTING
5	TERMINAL BLOCK		15	30 A, 120 V, 1P, CB	SPARE
6	NEUTRAL BUS		16	60 A, 2P, NO CONTACTOR	METERED LIGHTING
7	GROUND BUS		17	30 A, 120 V, 1P, CB	SOFFIT LIGHTING
8	GROUNDING ELECTRODE		18	30 A, 120 V, 1P, CB	BARRIER LIGHTING
9	100 A, 240 V, 3P, CB	MAIN BREAKER	19	20 A, 120 V, 1P, CB	IRRIGATION
10	PHOTOELECTRIC UNIT (NOTE 6)				

NOTES: (FOR THIS SHEET ONLY)

1. VOLTAGE RATINGS OF SERVICE EQUIPMENT MUST CONFORM TO THE SERVICE VOLTAGES INDICATED ON THE PLANS.
2. UNLESS OTHERWISE INDICATED ON THE PLANS, SERVICE EQUIPMENT ITEMS MUST BE PROVIDED FOR EACH SERVICE EQUIPMENT ENCLOSURE AS SHOWN.
3. SEE STANDARD PLAN RSP ES-2E FOR OTHER DETAILS.
4. METER SOCKETS MUST MEET SERVICE UTILITY REQUIREMENTS.
5. THE LANDING LUG MUST BE SUITABLE FOR MULTIPLE CONDUCTORS.
6. PHOTOELECTRIC CONTROL MUST BE TYPE II.
7. SERVICE UTILITY WILL INSTALL THE TIME-OF-USE METER IF APPLICABLE.
8. UNLESS OTHERWISE NOTED, THE MAXIMUM NUMBER OF SINGLE-POLE CIRCUIT BREAKER SPACES IN THE ENCLOSURE IS FOURTEEN.

ELECTRICAL SYSTEMS DETAILS

NO SCALE

ED-7

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
DAN K. YAU
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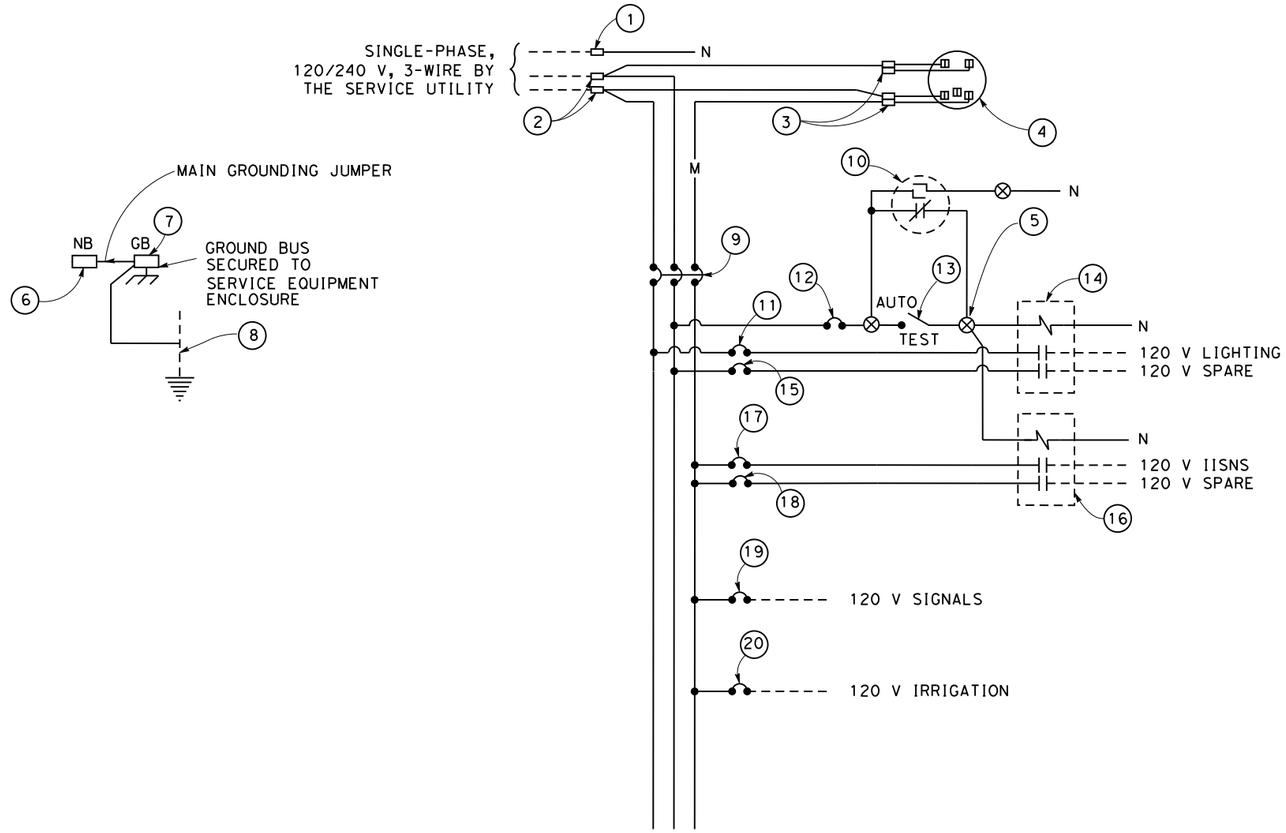

CITY 120/240 V METERED AND UNMETERED SERVICE WIRING DIAGRAM
FOR SIGNAL AND LIGHTING WITH IRRIGATION

TYPE III-BF SERVICE EQUIPMENT ENCLOSURE LEGEND (120/240 V)

ITEM No.	COMPONENT	NAMEPLATE DESCRIPTION	ITEM No.	COMPONENT	NAMEPLATE DESCRIPTION
1	NEUTRAL LUG		11	30 A, 120 V, 1P, CB	LIGHTING
2	LANDING LUG		12	15 A, 120 V, 1P, CB	LIGHTING CONTROL
3	TEST BYPASS FACILITY		13	15 A, 120 V, 1P, TEST SWITCH	TEST SWITCH
4	METER SOCKET AND SUPPORT		14	60 A, 2P, NO CONTACTOR	LIGHTING
5	TERMINAL BLOCK		15	30 A, 120 V, 1P, CB	SPARE
6	NEUTRAL BUS		16	60 A, 2P, NO CONTACTOR	IISNS
7	GROUND BUS		17	15 A, 120 V, 1P, CB	IISNS
8	GROUNDING ELECTRODE		18	15 A, 120 V, 1P, CB	SPARE
9	100 A, 240 V, 3P, CB	MAIN BREAKER	19	50 A, 120 V, 1P, CB	SIGNALS
10	PHOTOELECTRIC UNIT (NOTE 6)		20	20 A, 120 V, 1P, CB	IRRIGATION

NOTES: (FOR THIS SHEET ONLY)

1. VOLTAGE RATINGS OF SERVICE EQUIPMENT MUST CONFORM TO THE SERVICE VOLTAGES INDICATED ON THE PLANS.
2. UNLESS OTHERWISE INDICATED ON THE PLANS, SERVICE EQUIPMENT ITEMS MUST BE PROVIDED FOR EACH SERVICE EQUIPMENT ENCLOSURE AS SHOWN.
3. SEE STANDARD PLAN RSP ES-2E FOR OTHER DETAILS.
4. METER SOCKETS MUST MEET SERVICE UTILITY REQUIREMENTS.
5. THE LANDING LUG MUST BE SUITABLE FOR MULTIPLE CONDUCTORS.
6. PHOTOELECTRIC CONTROL MUST BE TYPE II.
7. SERVICE UTILITY WILL INSTALL THE TIME-OF-USE METER IF APPLICABLE.
8. UNLESS OTHERWISE NOTED, THE MAXIMUM NUMBER OF SINGLE-POLE CIRCUIT BREAKER SPACES IN THE ENCLOSURE IS FOURTEEN.

ELECTRICAL SYSTEMS DETAILS

NO SCALE

ED-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

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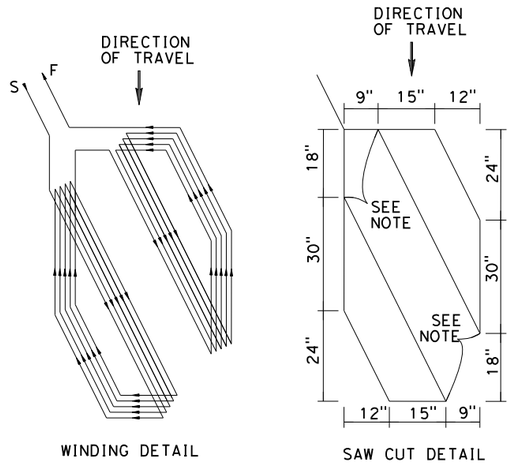
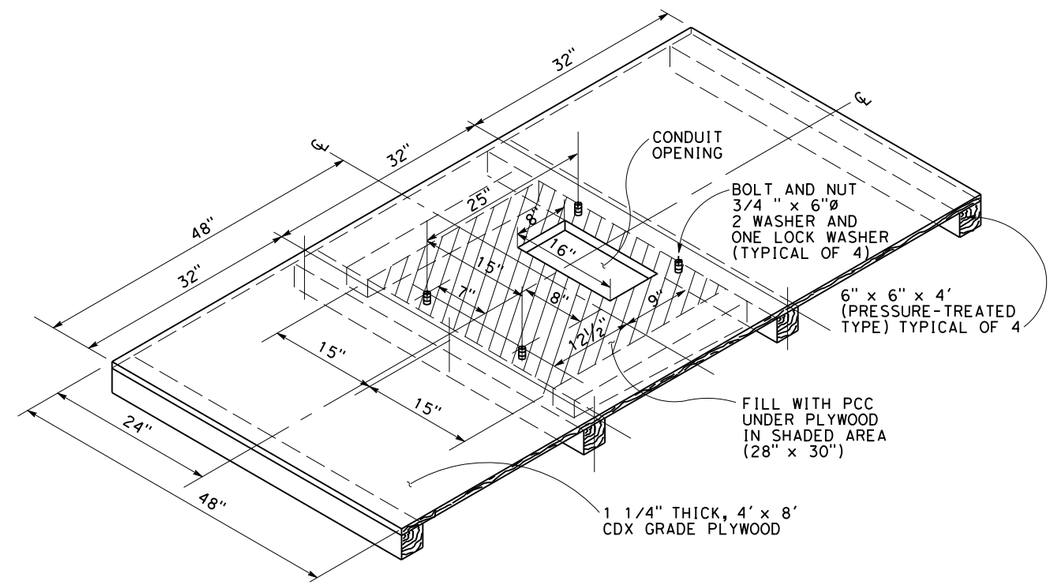
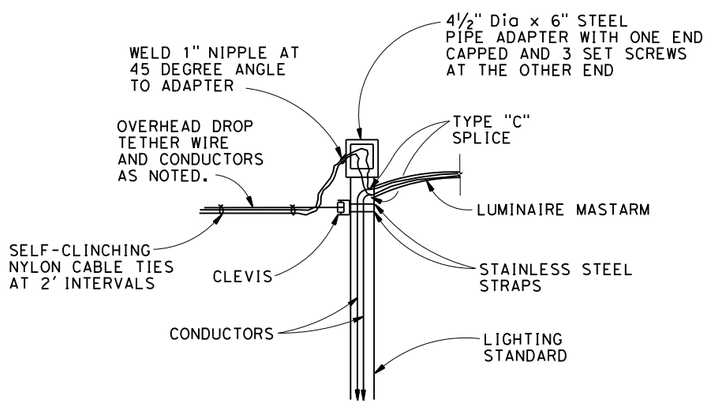


3' x 6' (BIKE LOOP DETECTOR)
TYPE D LOOP DETECTOR DETAIL

NOTE: ROUND CORNERS OF ACUTE ANGLE SAW CUTS TO PREVENT DAMAGE TO CONDUCTORS.



TEMPORARY WOOD FOUNDATION FOR MODEL 332/334 CABINET



TYPICAL OVERHEAD DROP INSTALLATION DETAIL

ELECTRICAL SYSTEMS DETAILS

NO SCALE

ED-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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SUISUN CITY, CA 94585

NOTE:

ELECTRICAL SYSTEMS QUANTITY TABLES SUMMARIZE SIGNIFICANT COMPONENTS. SEE ELECTRICAL SYSTEMS PLANS AND SPECIFICATIONS TO DETERMINE ALL MATERIALS NEEDED FOR EACH SYSTEM.

SIGNAL AND LIGHTING SYSTEM

SHEET No.	LOCATION	(N) No. 5 PB	No. 6 PB	No. 6(E) PB	SERVICE UTILITY PB	LOOP DETECTOR, TYPE A	LOOP DETECTOR, TYPE D	Rdwy 1 LED Lum	TYPE 19-4-100 POLE WITH 30' SMA & 12' LMA	TYPE 19-4-100 POLE WITH 25' SMA & 12' LMA	TYPE 19-4-100 POLE Fdn	TYPE 15TS POLE WITH 12' LMA	TYPE 15TS POLE Fdn	TYPE 15 POLE WITH 15' LMA	TYPE 15 POLE Fdn	TYPE 1-B POLE	TYPE 1-B POLE Fdn	PBA POST	PBA POST Fdn	APS	SIGNAL MOUNT MAS	SIGNAL MOUNT SV-1-T	SIGNAL MOUNT SV-2-TB	SIGNAL MOUNT TV-1-T	PEDESTRIAN SIGNAL MOUNT TP-1-T	PEDESTRIAN SIGNAL MOUNT SP-1-T	PEDESTRIAN SIGNAL MOUNT SP-2-T	SIGNAL 3-12" (HOUSING, BACKPLATE, LED)	DETECTOR HANDHOLE	MODEL 332L CABINET Fdn WITH ANCHOR BOLTS	BBS CABINET WITH BATTERY	TYPE III-AF SERVICE EQUIPMENT ENCLOSURE	TYPE III-AF SERVICE EQUIPMENT ENCLOSURE Fdn
		EA																														
E-4	4	3	13	1	1	24	8	6	2	1	3	2	2	1	1	4	4	2	2	4	5	4		3	1	3		12	6	1	1	1	1
E-6	5	7	14	1		34	11	8	3	1	4	3	3	1	1	5	5	3	3	8	6	4	1	4	1	5	1	15	6	1	1	1	1

(N) - NOT A SEPARATE BID ITEM

SIGNAL AND LIGHTING SYSTEM

SHEET No.	LOCATION	(N) 2" TYPE 3 CONDUIT	3" TYPE 3 CONDUIT	4" TYPE 3 CONDUIT	#14 AWG	#10 AWG	#8 AWG	#6 AWG	#0 AWG	#2/0 AWG	SIC	DLC	APS CABLE
		LF											
E-4	4	620	700	260	8060	840	1700	20	630		310	3500	20
E-6	5	600	600	250	10500		1500	1400		100	300	5000	

(N) - NOT A SEPARATE BID ITEM

ELECTRICAL SYSTEMS QUANTITIES

EQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN — REVISED BY — DATE REVISED

LAST REVISION 08-26-22 — DATE PLOTTED => 12/2/2022 — TIME PLOTTED => 12:09:31 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

ELECTRICAL SYSTEMS QUANTITY TABLES SUMMARIZE SIGNIFICANT COMPONENTS. SEE ELECTRICAL SYSTEMS PLANS AND SPECIFICATIONS TO DETERMINE ALL MATERIALS NEEDED FOR EACH SYSTEM.

SIGNAL AND LIGHTING (CITY)

SHEET No.	LOCATION	(N) No. 5 PB	(N) No. 6 PB	(N) No. 6(E) PB	(N) LOOP DETECTOR, TYPE A	(N) LOOP DETECTOR, TYPE D	(N) Rdwy 1 LED Lum	(N) TYPE 61-5-100 POLE WITH 60' SMA & 15' LMA	(N) TYPE 26-4-100 POLE WITH 45' SMA & 15' LMA	(N) TYPE 19-4-100 POLE WITH 25' SMA & 12' LMA	(N) TYPE 61-5-100 POLE Fdn	(N) TYPE 26-4-100 POLE Fdn	(N) TYPE 19-4-100 POLE Fdn	(N) TYPE 15TS POLE WITH 12' LMA	(N) TYPE 15TS POLE Fdn	(N) TYPE 1-A POLE	(N) TYPE 1-A POLE Fdn	(N) PBA POST	(N) PBA POST Fdn	(N) APS	(N) GPS EVUD	(N) LED IISNS	(N) SIGNAL MOUNT MAS	(N) SIGNAL MOUNT MAT	(N) SIGNAL MOUNT SV-1-T	(N) SIGNAL MOUNT SV-2-TB	(N) SIGNAL MOUNT SV-3-TC	(N) SIGNAL MOUNT TV-1-T	(N) SIGNAL MOUNT TV-2-T	(N) PEDESTRIAN SIGNAL MOUNT TP-1-T	(N) PEDESTRIAN SIGNAL MOUNT TP-2-T	(N) PEDESTRIAN SIGNAL MOUNT SP-1-T	(N) PEDESTRIAN SIGNAL MOUNT SP-2-T	(N) SIGNAL 3-12" (HOUSING, BACKPLATE, LED)	(N) DETECTOR HANDHOLE	(N) MODEL 2070 CONTROLLER ASSEMBLY WITH 332 CABINET	(N) MODEL 332 CABINET Fdn WITH ANCHOR BOLTS	(N) TYPE III-BF SERVICE EQUIPMENT ENCLOSURE	(N) TYPE III-BF SERVICE EQUIPMENT ENCLOSURE Fdn
		EA																																			
E-10	3	11	7	1	33	11	4	1	1	1	1	1	1	1	1	6	6	4	4	8	1	3	4	1	1	1	1	2	1	2	1	2	1	15	8	1	1	1	1

(N) - NOT A SEPARATE BID ITEM

SIGNAL AND LIGHTING (CITY)

SHEET No.	LOCATION	(N) 2" TYPE 3 CONDUIT	(N) 3" TYPE 3 CONDUIT	(N) 4" TYPE 3 CONDUIT	(N) #14 AWG	(N) #12 AWG	(N) #10 AWG	(N) #8 AWG	(N) #6 AWG	(N) #1 AWG	(N) DLC	(N) APS CABLE
		LF										
E-10	3	665	700	200	11600	700	1120	1600	100	150	4100	140

(N) - NOT A SEPARATE BID ITEM

EMERGENCY VEHICLE DETECTION SYSTEM (CITY)

SHEET No.	LOCATION	(N) EVUD	(N) GPS EVUD
		EA	
E-8	4		1
E-9	5	2	

(N) - NOT A SEPARATE BID ITEM

ELECTRICAL SYSTEMS QUANTITIES

EQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN — REVISED BY — DATE REVISED

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

ELECTRICAL SYSTEMS QUANTITY TABLES SUMMARIZE SIGNIFICANT COMPONENTS. SEE ELECTRICAL SYSTEMS PLANS AND SPECIFICATIONS TO DETERMINE ALL MATERIALS NEEDED FOR EACH SYSTEM.

MODIFYING TRAFFIC MONITORING STATIONS

SHEET No.	(N) No. 5 PB	No. 5(T) PB	No. 6 PB	No. 6(E) PB	LOOP DETECTOR, TYPE A	MODEL 334L CABINET AND Fdn WITH ANCHOR BOLTS	CELLULAR DATA MODEM ASSEMBLY	2" TYPE 3 CONDUIT	3" TYPE 3 CONDUIT	#6 AWG	DLC
	EA							LF			
E-12	1	1	1	1	1	1	1	220	20	100	4460

(N) - NOT A SEPARATE BID ITEM

MODIFYING CHANGEABLE MESSAGE SIGN SYSTEMS

SHEET No.	(N) No. 5 PB	No. 5(T) PB	No. 6(T) PB	No. 6(E) PB	MODEL 334L CABINET Fdn WITH ANCHOR BOLTS	CELLULAR DATA MODEM ASSEMBLY	3" TYPE 3 CONDUIT	#6 AWG	#2 AWG	#2/0 AWG
	EA						LF			
E-13	3	1	1	1	1	1	250	760	440	180

(N) - NOT A SEPARATE BID ITEM

ELECTRICAL SYSTEMS QUANTITIES

EQ-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

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04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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LIGHTING (CITY STREET)

SHEET	(N) No. 5 PB	No. 6 PB	TYPE 9 PB	NEMA 4 JUNCTION BOX	CITY STREET LIGHT WITH TYPE 15 Std & Fdn	CITY DUAL STREET LIGHT WITH TYPE 15D Std & Fdn	CITY DECORATIVE STREET LIGHT WITH POLE & Fdn	CITY RECESSED BARRIER LIGHT	CITY SOFFIT LIGHT	TYPE III-BF SERVICE EQUIPMENT ENCLOSURE	TYPE III-BF SERVICE EQUIPMENT ENCLOSURE Fdn	RELOCATE SIGN Ltg	RELOCATE LIGHT POLE	REINSTALL LIGHT POLE WITH SMALL CELL 5G EQUIPMENT	REMOVE ELECTROLIER	1" TYPE 1 CONDUIT	1½" TYPE 1 CONDUIT	2" TYPE 3 CONDUIT	3" TYPE 3 CONDUIT	#14 AWG	#10 AWG	#8 AWG	#6 AWG	#4 AWG	#1 AWG
	EA															LF									
E-14	7	1			2	4						2	1	1	8			1100			40		2000	200	
E-15	8					6				1	1	1			9			1300	100	400	200	200	2600		300
E-16	8	2	13	4			2	12	2							400	700	1000			2800	2000		1000	

(N) - NOT A SEPARATE BID ITEM

ELECTRICAL SYSTEMS QUANTITIES

EQ-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

LAST REVISION 08-26-22
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — 12-30-22 DATE

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN No. 55391 Exp. 12/31/24 CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

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MODIFYING SIGNAL AND LIGHTING (CITY)

SHEET No.	LOCATION	(N) No. 5 PB	No. 6 PB	No. 6(E) PB	LOOP DETECTOR, TYPE A	LOOP DETECTOR, TYPE D	Rdwy 1 LED Lum	TYPE 61-5-100 POLE WITH 65' SMA & 15' LMA	TYPE 29-5-100 POLE WITH 50' SMA & 15' LMA	TYPE 26-4-100 POLE WITH 45' SMA & 15' LMA	TYPE 61-5-100 POLE Fdn	TYPE 29-5-100 POLE Fdn	TYPE 26-4-100 POLE Fdn	TYPE 15TS POLE WITH 15' LMA	TYPE 15TS POLE Fdn	TYPE 1-A POLE	TYPE 1-A POLE Fdn	PBA POST	PBA POST Fdn	APS	EVUD	LED IISNS	SIGNAL MOUNT MAT	SIGNAL MOUNT MAS	SIGNAL MOUNT SV-1-T	SIGNAL MOUNT SV-2-TA	SIGNAL MOUNT SV-2-TB	SIGNAL MOUNT TV-1-T	PEDESTRIAN SIGNAL MOUNT SP-1-T	PEDESTRIAN SIGNAL MOUNT TP-2-T	SIGNAL 3-12" (HOUSING, BACKPLATE, LED)	SIGNAL 4-12" (HOUSING, BACKPLATE, LED)	DETECTOR HANDHOLE	MODEL 2070 CONTROLLER ASSEMBLY WITH 332 CABINET	MODEL 332 CABINET Fdn WITH ANCHOR BOLTS
		EA																																
E-18	1				8	2																										2		
E-21	2	2	7	1	38	13	4	1	1	1	1	1	1	1	1	2	2	2	2	6	3	3	1	4	2	1	2	1	3	1	14	1	8	1	1

(N) - NOT A SEPARATE BID ITEM

MODIFYING SIGNAL AND LIGHTING (CITY)

SHEET No.	LOCATION	(N) 2" TYPE 3 CONDUIT	3" TYPE 3 CONDUIT	4" TYPE 3 CONDUIT	#14 AWG	#12 AWG	#10 AWG	#8 AWG	DLC	APS CABLE
		LF								
E-18	1	50								
E-21	2	550	200	300	10600	900	300	1500	4800	200

(N) - NOT A SEPARATE BID ITEM

INTERCONNECTION CONDUIT AND CABLE (CITY)

SHEET No.	(N) No. 6 PB	3" TYPE 3 CONDUIT	SIC
	EA	LF	
E-23		20	300
E-24	2	400	1700
E-25	5	800	2300

(N) - NOT A SEPARATE BID ITEM

ELECTRIC SERVICE FOR IRRIGATION (CITY)

SHEET No.	(N) No. 5 PB	1" TYPE 3 CONDUIT	2" TYPE 3 CONDUIT	#10 AWG
	EA	FT		
E-26	2	5	285	580

(N) - NOT A SEPARATE BID ITEM

REMOVING SIGNAL AND LIGHTING SYSTEMS

SHEET No.	(N) REMOVE SIGNAL POLE	REMOVE LIGHT POLE	REMOVE TYPE 1 POLE	REMOVE PBA POST	REMOVE WALL MOUNTED LIGHTS	REMOVE PULL BOX	REMOVE CABINET
	EA						
E-27	3	2	2	1	2	13	1
E-28	3	1	3	1	2	22	2

(N) - NOT A SEPARATE BID ITEM

ELECTRICAL SYSTEMS QUANTITIES

EQ-5

REVISED BY | DATE REVISED
ANSON HUYNH | KIN Y. CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
DAN K. YAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KIN Y. CHAN — No. 55391 — Exp. 12/31/24 — CIVIL — STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

ELECTRICAL SYSTEMS QUANTITY TABLES SUMMARIZE SIGNIFICANT COMPONENTS. SEE ELECTRICAL SYSTEMS PLANS AND SPECIFICATIONS TO DETERMINE ALL MATERIALS NEEDED FOR EACH SYSTEM.

TEMPORARY TRAFFIC MONITORING STATIONS

SHEET No.	(N) 2" TYPE 3 CONDUIT	(N) #6 AWG	(N) DLC
	LF		
E-31	550	600	5200

(N) - NOT A SEPARATE BID ITEM

TEMPORARY CHANGEABLE MESSAGE SIGN SYSTEMS

SHEET No.	(N) No. 5 PB	(N) No. 6 PB	(N) WOOD POLE AND GUY WIRE	(N) TEMPORARY WOOD PLATFORM	(N) CELLULAR DATA MODEM ASSEMBLY	(N) OVERHEAD TETHER WIRE	(N) 3" TYPE 3 CONDUIT	(N) #6 AWG	(N) #2 AWG	(N) #2/0 AWG
	EA			LF						
E-32	1		2			500	50	900	1990	890
E-33		1	2	1	1	350	30	500	1050	530

(N) - NOT A SEPARATE BID ITEM

TEMPORARY SIGNAL SYSTEMS

SHEET No.	LOCATION	(N) No. 5 PB	(N) No. 6 PB	(N) Rdwy 1 LED Lum	(N) WOOD POLE AND GUY WIRE	(N) VIDEO DETECTION SYSTEM	(N) PBA POST & Fdn	(N) APS	(N) PBA	(N) SIGNAL 3-12" (HOUSING, LED, Mtg)	(N) SIGNAL 4-12" (HOUSING, LED, Mtg)	(N) PEDESTRIAN SIGNAL (HOUSING, LED, Mtg)	(N) TEMPORARY WOOD PLATFORM	(N) TYPE III-AF SERVICE ENCLOSURE & Fdn	(N) 2" TYPE 3 CONDUIT	(N) 3" TYPE 3 CONDUIT	(N) 4" TYPE 3 CONDUIT	(N) #14 AWG	(N) #10 AWG	(N) #8 AWG	(N) #6 AWG	(N) #1 AWG	(N) OVERHEAD MESSENGER WIRE	(N) OVERHEAD TETHER WIRE	(N) SIC
		EA													LF										
E-35	4	1		3	3	1		2		5						50		6100	400	1500	50		400	400	50
E-38	5			2	4	1				6						20		2900	1200	900	50		300	140	200
E-41	4	1		3	4				2	6		2			200	30	80	7600	1000	1400	50		590	230	600
E-44	5	3	1	7	10		1		2	10		2	1	1	200	80	20	9100		2400	2100	150	1200	200	600
E-47	4			2	2		1		2	6	1	2			50			5900	900	1400	40		300	140	280
E-50	5			4	4		2		2	8		1			40			7200		1500	1200		720	270	350

(N) - NOT A SEPARATE BID ITEM

ELECTRICAL SYSTEMS QUANTITIES

EQ-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU

CALCULATED-DESIGNED BY: ANSON HUYNH — CHECKED BY: KIN Y. CHAN — REVISED BY — DATE REVISED

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04	Sol	37	10.9		

REGISTERED CIVIL ENGINEER — DATE 12-30-22

December 31, 2022
PLANS APPROVAL DATE

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

SOLANO TRANSPORATION AUTHORITY
ONE HARBOR CENTER, #130
SUISUN CITY, CA 94585

NOTE:

ELECTRICAL SYSTEMS QUANTITY TABLES SUMMARIZE SIGNIFICANT COMPONENTS. SEE ELECTRICAL SYSTEMS PLANS AND SPECIFICATIONS TO DETERMINE ALL MATERIALS NEEDED FOR EACH SYSTEM.

TEMPORARY LIGHTING (CITY STREET)

SHEET No.	(N) Rdwy 1 LED Lum	(N) WOOD POLE AND GUY WIRE	(N) 2" TYPE 3 CONDUIT	(N) #10 AWG	(N) #6 AWG	(N) #4 AWG	(N) OVERHEAD MESSENGER WIRE
	EA		LF				
E-52	4	5			2000		1000
E-53	1	1			300		150
E-54	4	5	50	100	1700		850
E-55							
E-56	10	10	40			3680	1800

(N) - NOT A SEPARATE BID ITEM

TEMPORARY SIGNAL AND LIGHTING (CITY)

SHEET No.	LOCATION	(N) No. 5 PB	(N) No. 6(E) PB	(N) Rdwy 1 LED Lum	(N) WOOD POLE AND GUY WIRE	(N) VIDEO DETECTION SYSTEM	(N) SIGNAL 3-12" (HOUSING, BACKPLATE, LED)	(N) SIGNAL 4-12" (HOUSING, BACKPLATE, LED)	(N) PEDESTRIAN SIGNAL (HOUSING, LED, M+g)	(N) PBA	(N) 2" TYPE 3 CONDUIT	(N) 3" TYPE 3 CONDUIT	(N) 4" TYPE 3 CONDUIT	(N) #14 AWG	(N) #8 AWG	(N) #6 AWG	(N) OVERHEAD MESSENGER WIRE	(N) OVERHEAD TETHER WIRE	(N) SIC
		EA									LF								
E-58	2			2	3	1	7	1	1	1				3500	650		300	300	
E-60	3	1	1	4	6	1	13	1	4	4	40	100	50	6600	1400	520	600	280	
E-63	2			2	3		6	1	3	3				10000	900	900	450	280	
E-66	3			2	2		6		3	3				4800	900		400	400	300
E-69	2					1	2							420					
E-72	3						1							600					

(N) - NOT A SEPARATE BID ITEM

TEMPORARY INTERCONNECTION CONDUIT AND CABLE (CITY)

SHEET No.	(N) No. 5 PB	(N) 3" TYPE 3 CONDUIT	(N) SIC
	EA	LF	
E-74		200	600
E-75	1	250	1500

(N) - NOT A SEPARATE BID ITEM

ELECTRICAL SYSTEMS QUANTITIES

EQ-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU
CALCULATED-DESIGNED BY: ANSON HUYNH
CHECKED BY: KIN Y. CHAN
REVISED BY
DATE REVISED

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