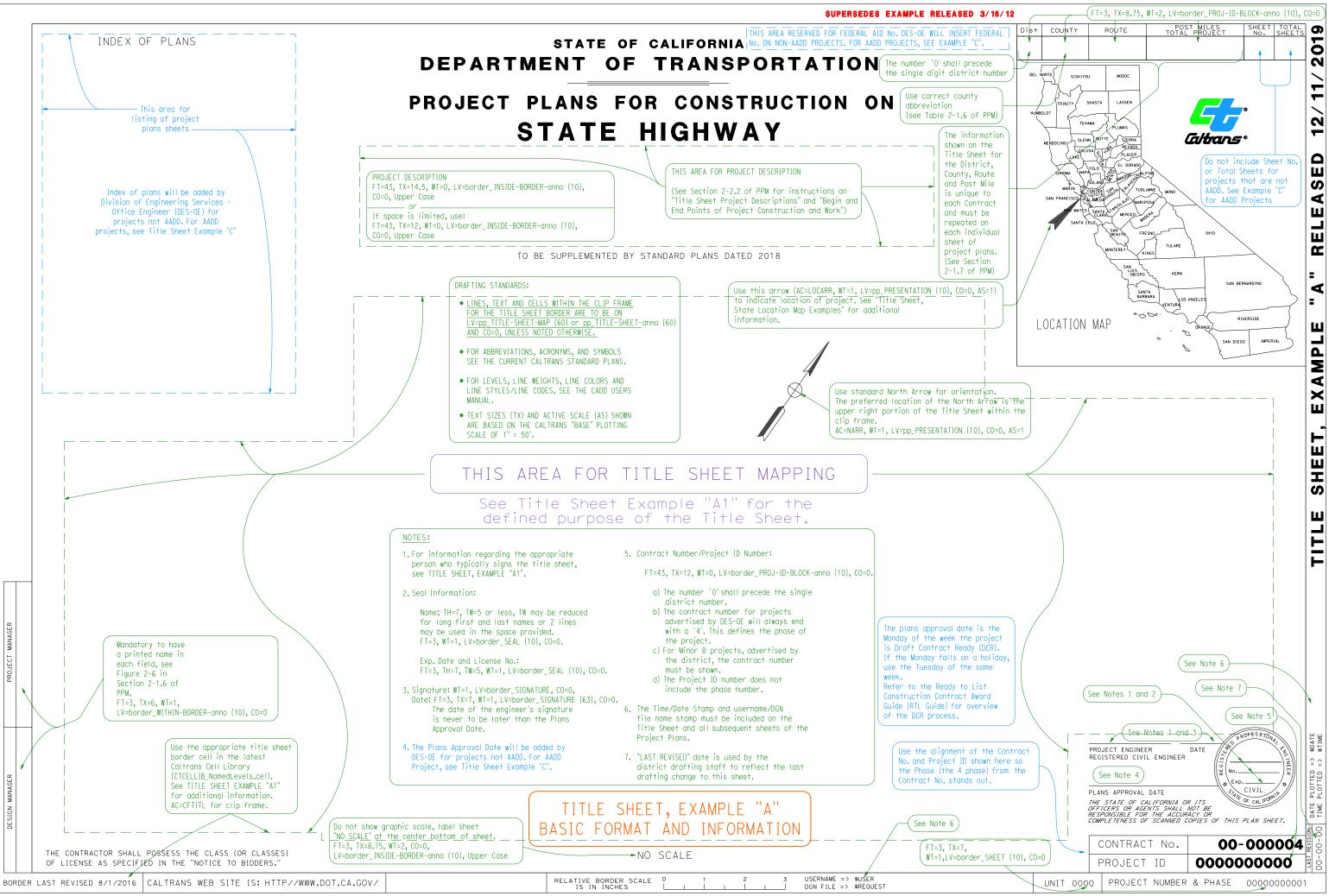
Plans Preparation Manual (U.S. Customary Units)

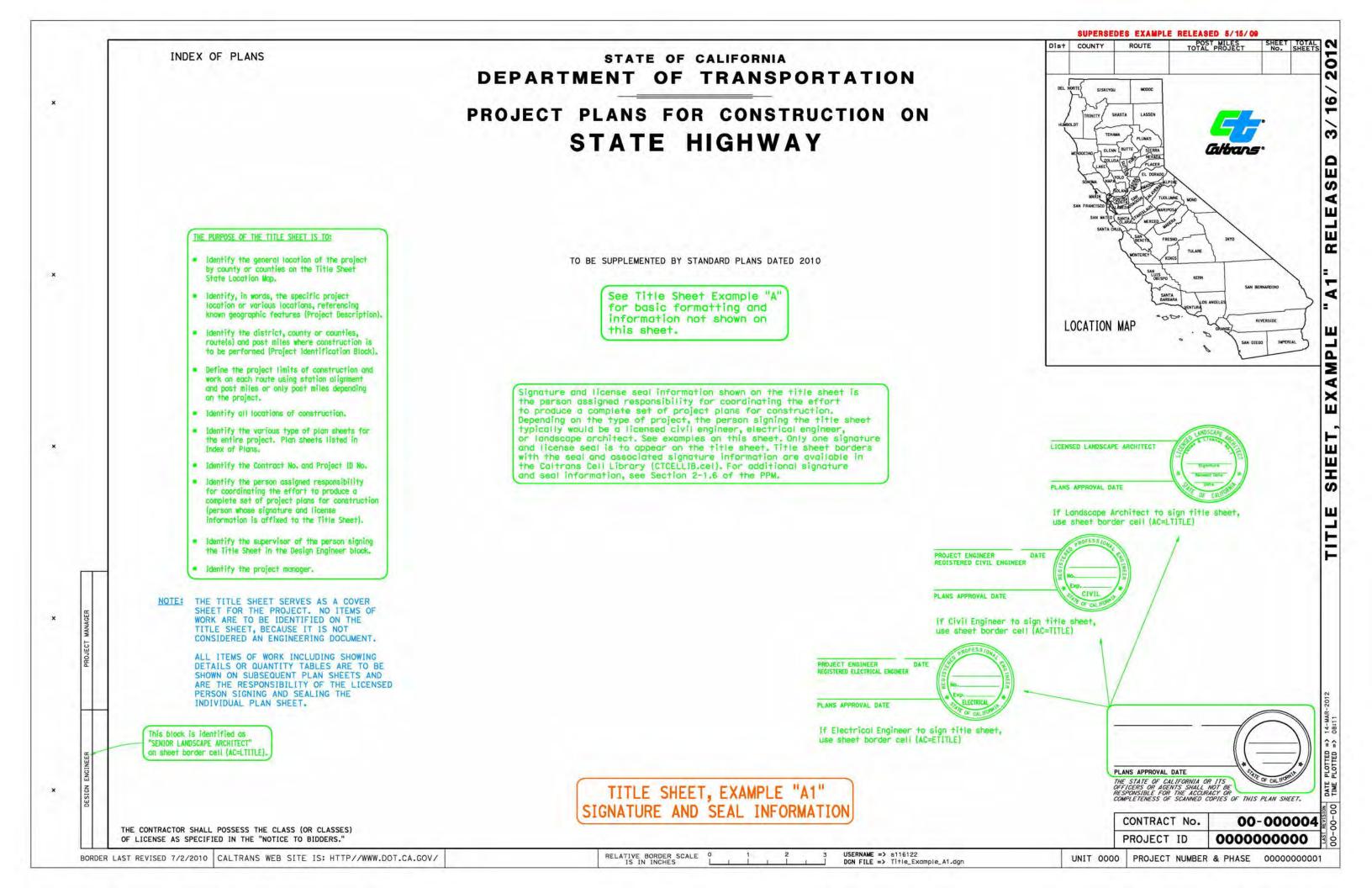
PLANS PREPARATION MANUAL

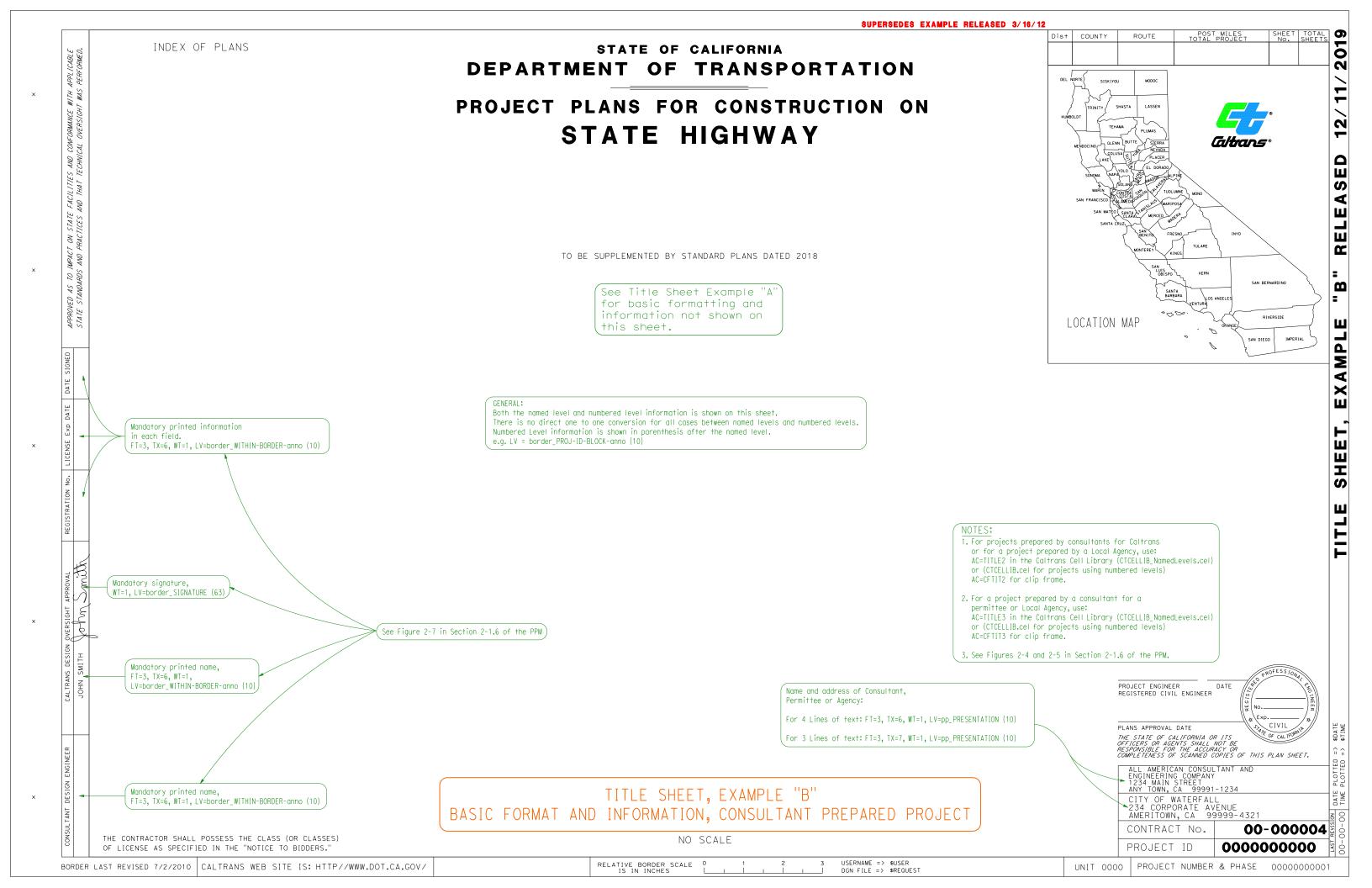
Examples

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		SUPERSEDES EXAMPLE RELEA
II	NDEX OF PLANS	STATE OF CALIFORNIA ACSTPHG-Q101(DEPARTMENT OF TRANSPORTATION
No. 1 2-4 5-6 7-12 13-19 20-21 22 23-40 41-47 48-55 56-61 62	DESCRIPTION TITLE AND LOCATION MAP TYPICAL CROSS SECTIONS LAYOUTS CONSTRUCTION DETAILS DRAINAGE PLANS, PROFILES, DETAILS AND QL UTILITY PLANS CONSTRUCTION AREA SIGNS STAGE CONSTRUCTION AND TRAFFIC HANDLING DETOUR PLANS AND QUANTITIES PAVEMENT DELINEATION PLANS, DETAILS AND SIGN PLANS, DETAILS AND QUANTITIES SUMMARY OF QUANTITIES	PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY
63-68 69-84	ELECTRICAL PLANS REVISED STANDARD PLANS -	TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2018
	E PLANS CLEAR WATER CREEK BRIDGE Br No. XX-XXXX DARD PLANS LIST APPLICABLE TO THIS CONTRA IN THE NOTICE TO BIDDERS AND SPECIAL PRO	ACT IS
regard The ce or CTC is ava for th INDEX FT=3, CO=0 I text s	The listing of plans and note ding standard plans list. Ell AC=INDEX in the CTCELLIB_NamedLevels.cel CELLIB for projects using numbred levels and the lock of plans. OF PLANS TEXT: TX=7.75, WT=1, LV=pp_TITLE-SHEET-anno (10), If space to list plans is restrictive, size may be reduced to TX=7. per case except abbreviations.	Depending on their applicability to a project, Revised Standard Plans are listed under the "INDEX OF PLANS." The term "New Standard Plan" is no longer being used. All New and Revised Standard Plans are now considered Revised Standard Plans and will be inserted in projects to follow the order of the sections in the Standard Plans Book.
as thi Do not of a t listing	sheets together for the index is will save space on large projects. t separately list the components type of work. Combine sheet gs. Example: SHEET Nos. 13-19 GE PLANS, PROFILES, DETAILS AND ITIES.	Use this arrow (AC=LOCARR, WT=1, LV=pp_PRESENTATION (10), CO=0, AS=1) to indicate location of project. See "Title Sheet, State Location Map Examples" for additional information. County or counties of location: LV=pp_PRESENTATION, CO=0, WT=2 patterning optional
		GENERAL: Both the named level and numbered level information is shown on this sheet. There is no direct one to one conversion for all cases between named levels and numbered levels. Numbered Level information is shown in parenthesis after the named level. e.g. LV = border_PROJ-ID-BLOCK-anno (10)
		TITLE SHEET, EXAMPLE "C" Additional information required for aadd project
	OR SHALL POSSESS THE CLASS (OR CLASSES) S SPECIFIED IN THE "NOTICE TO BIDDERS."	NO SCALE
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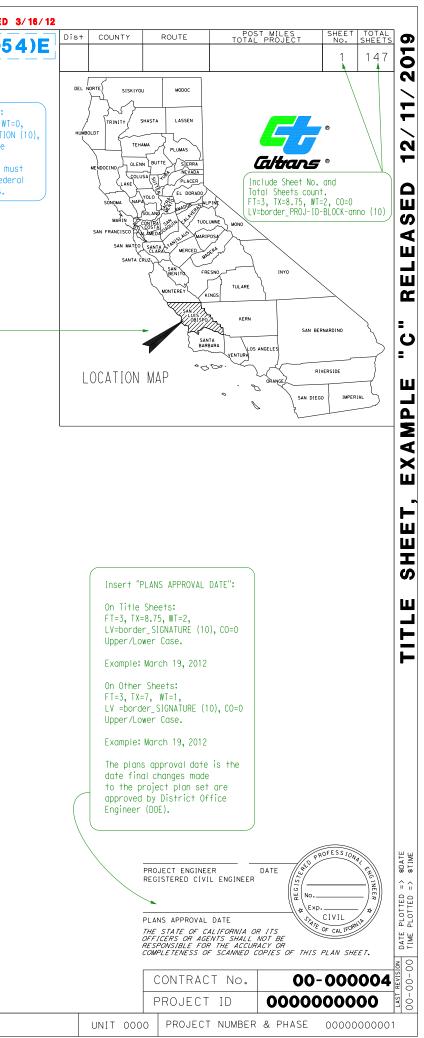
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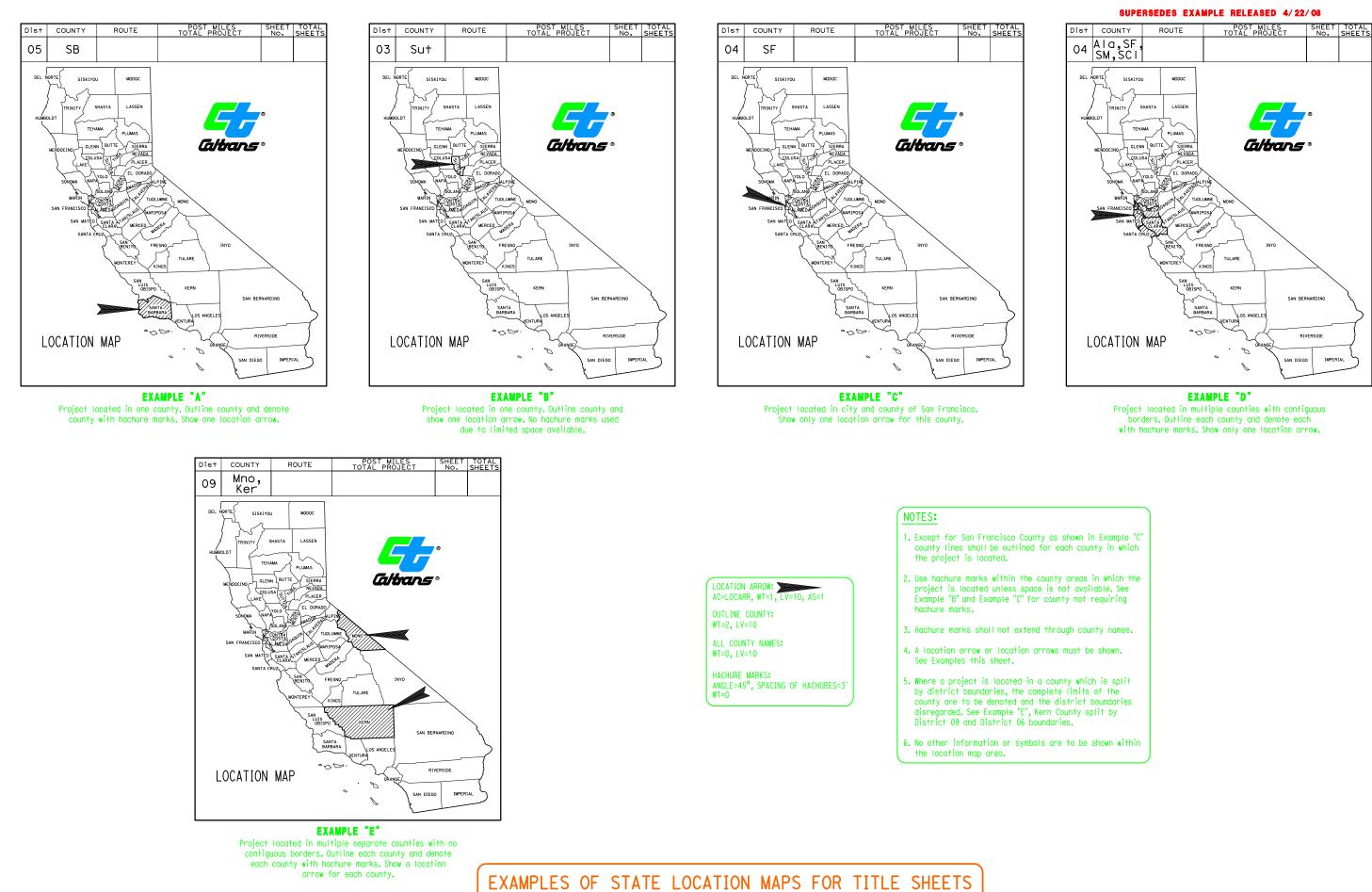
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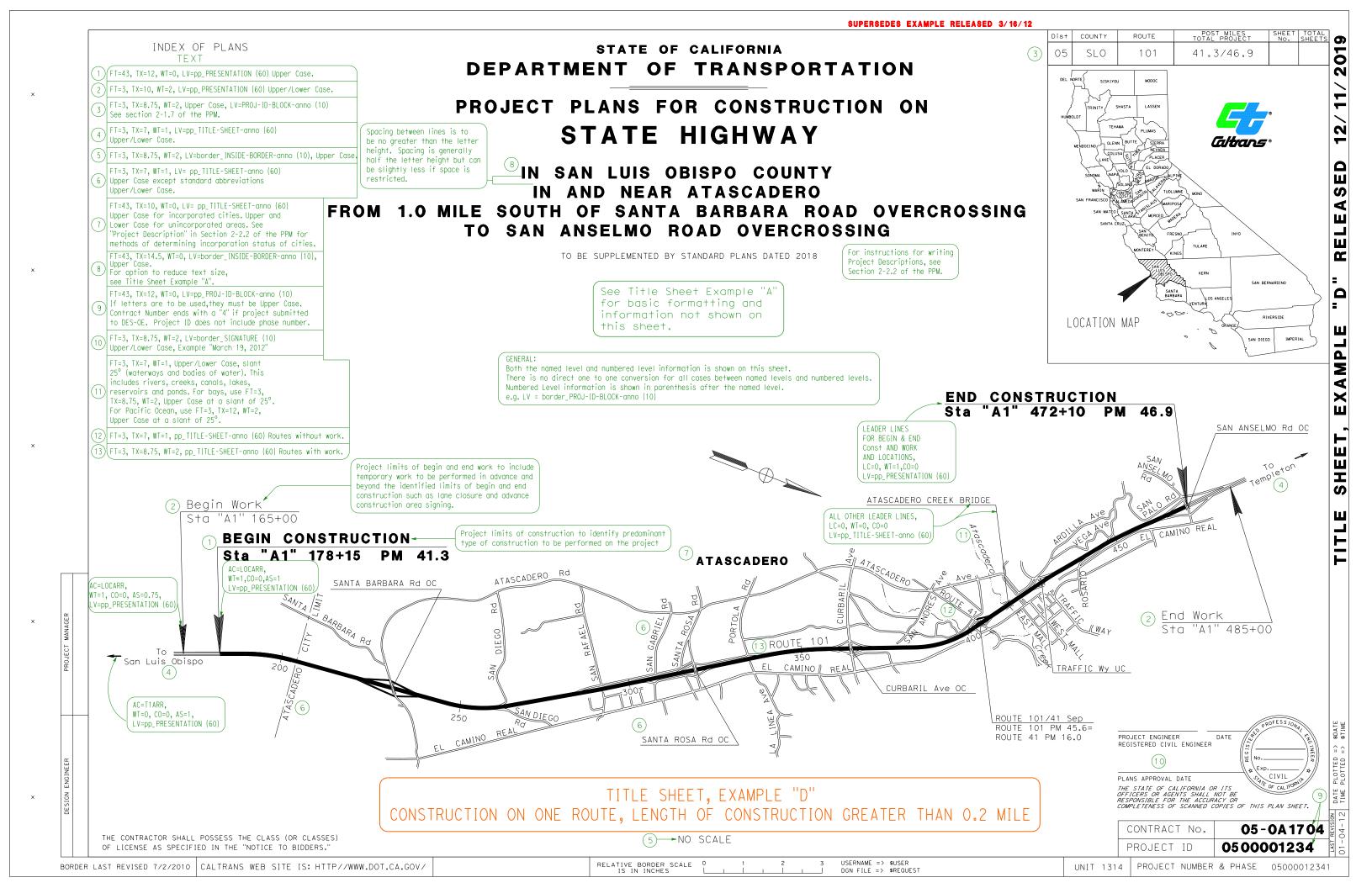
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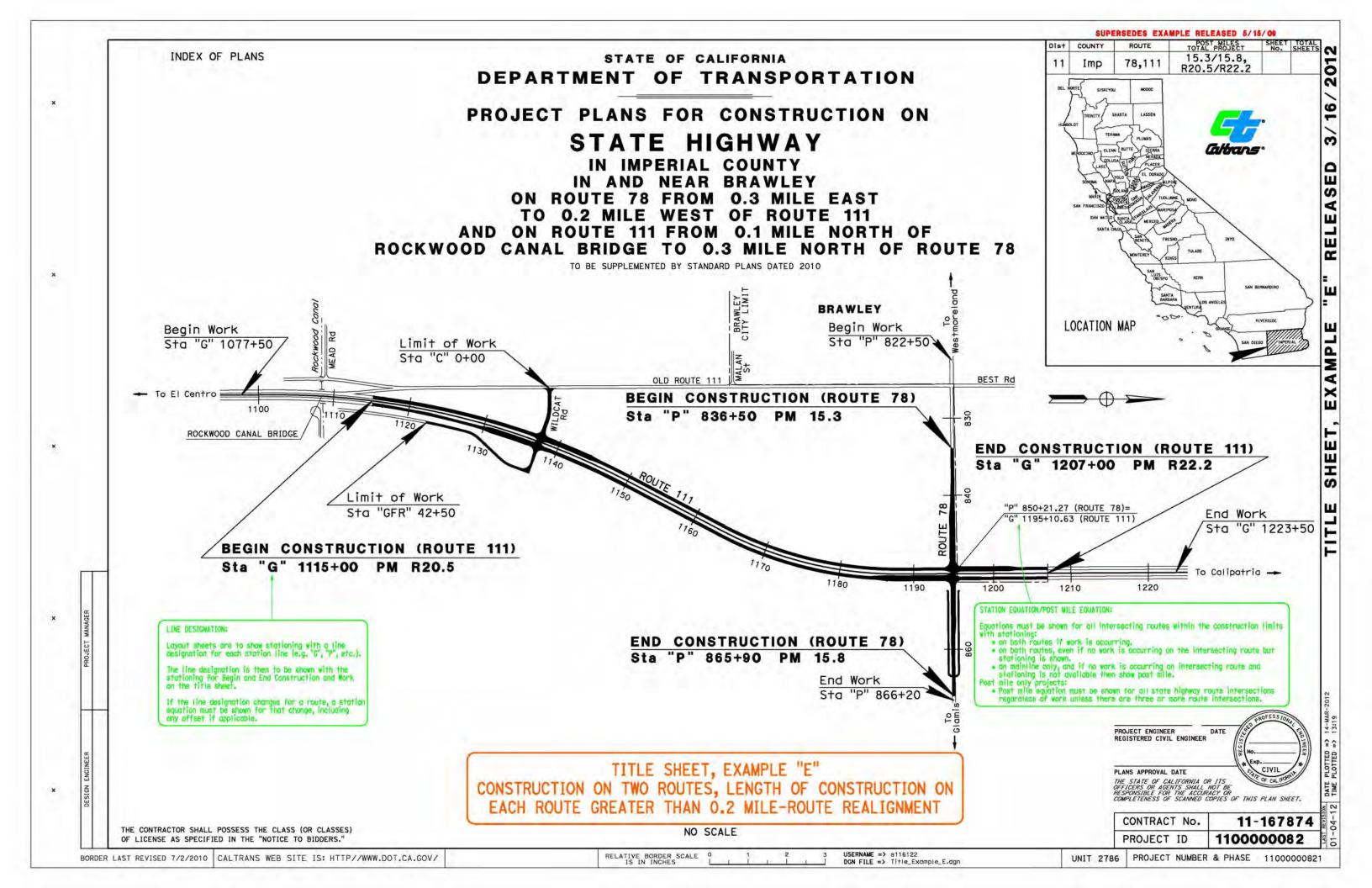
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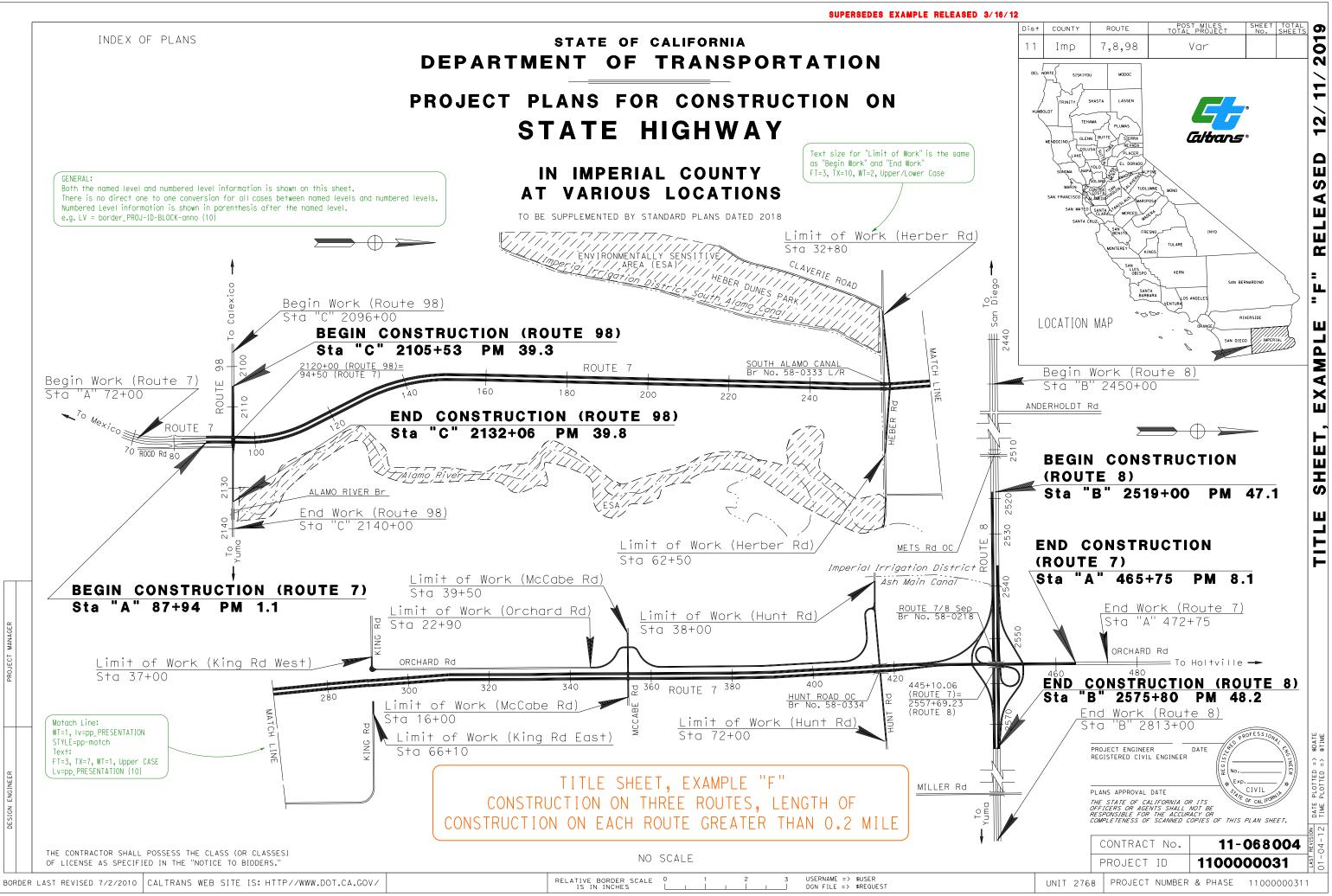
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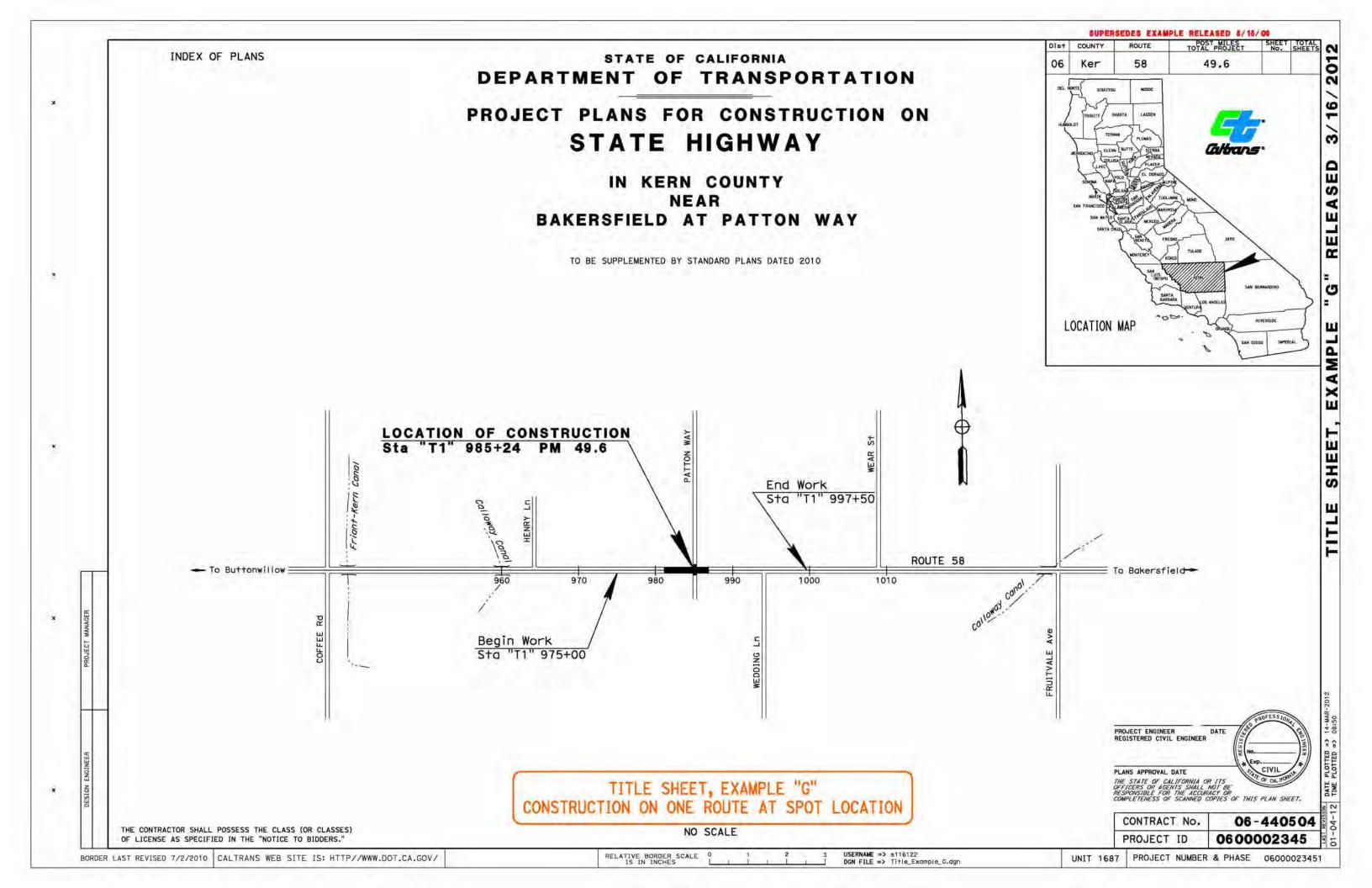


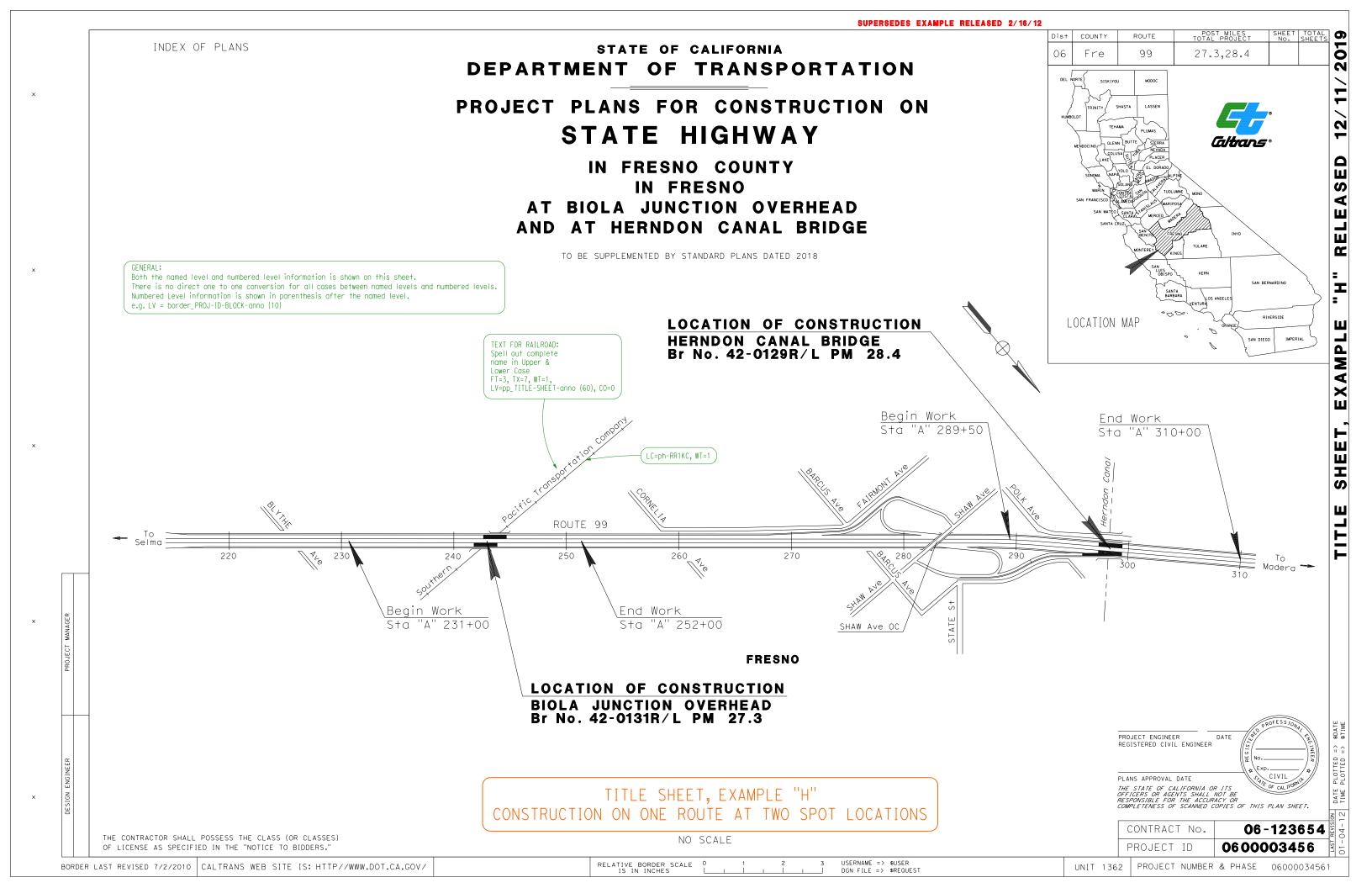


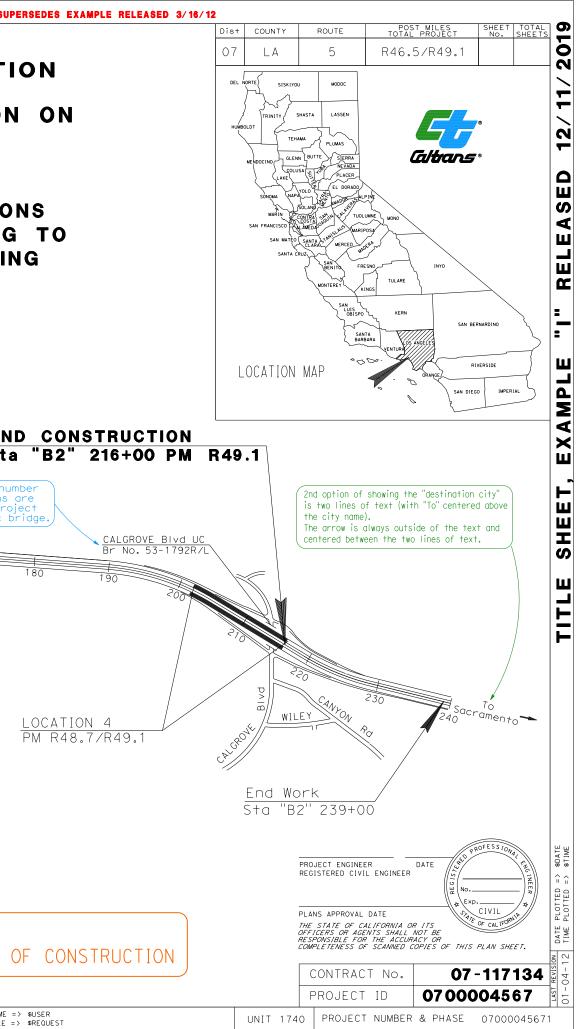


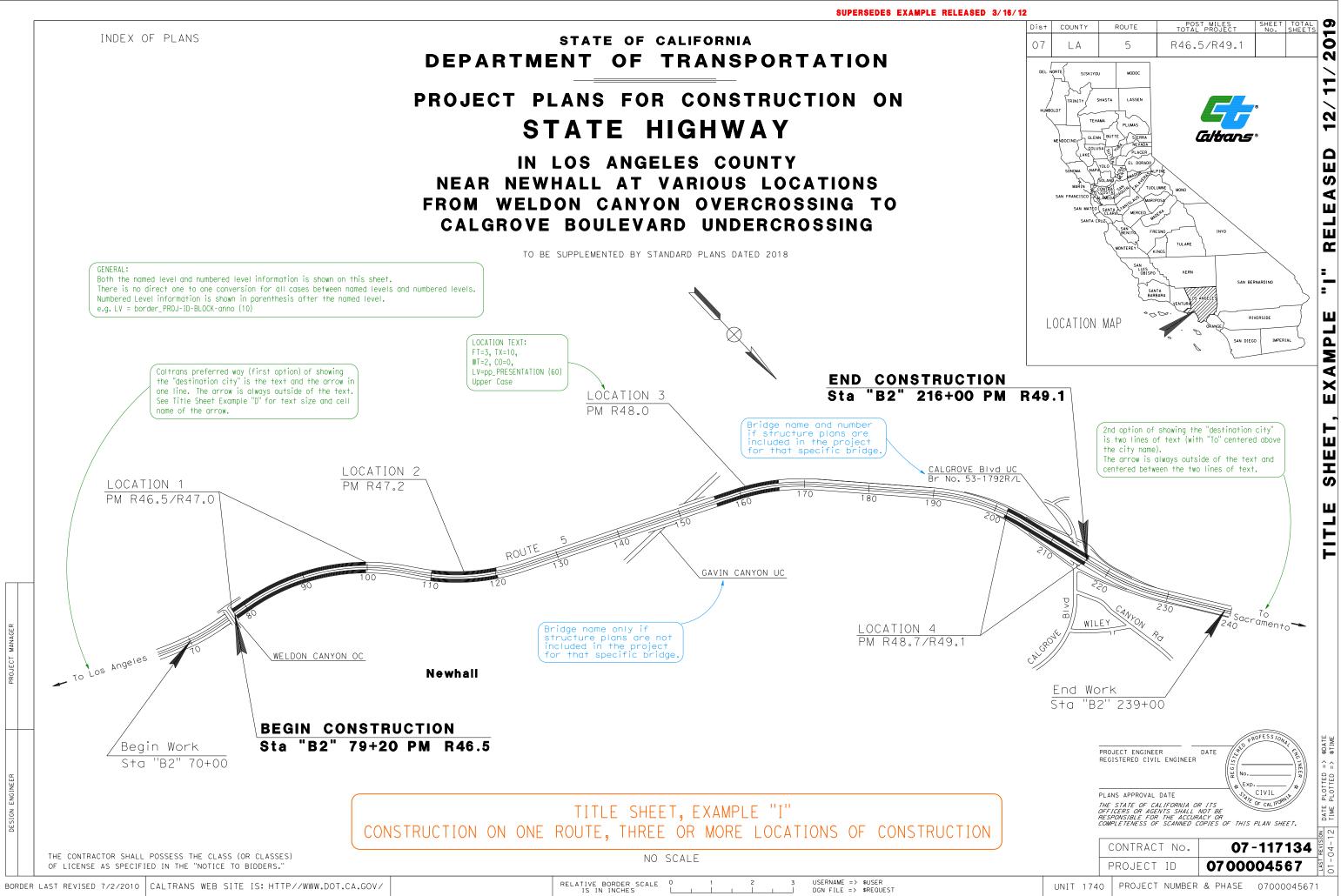


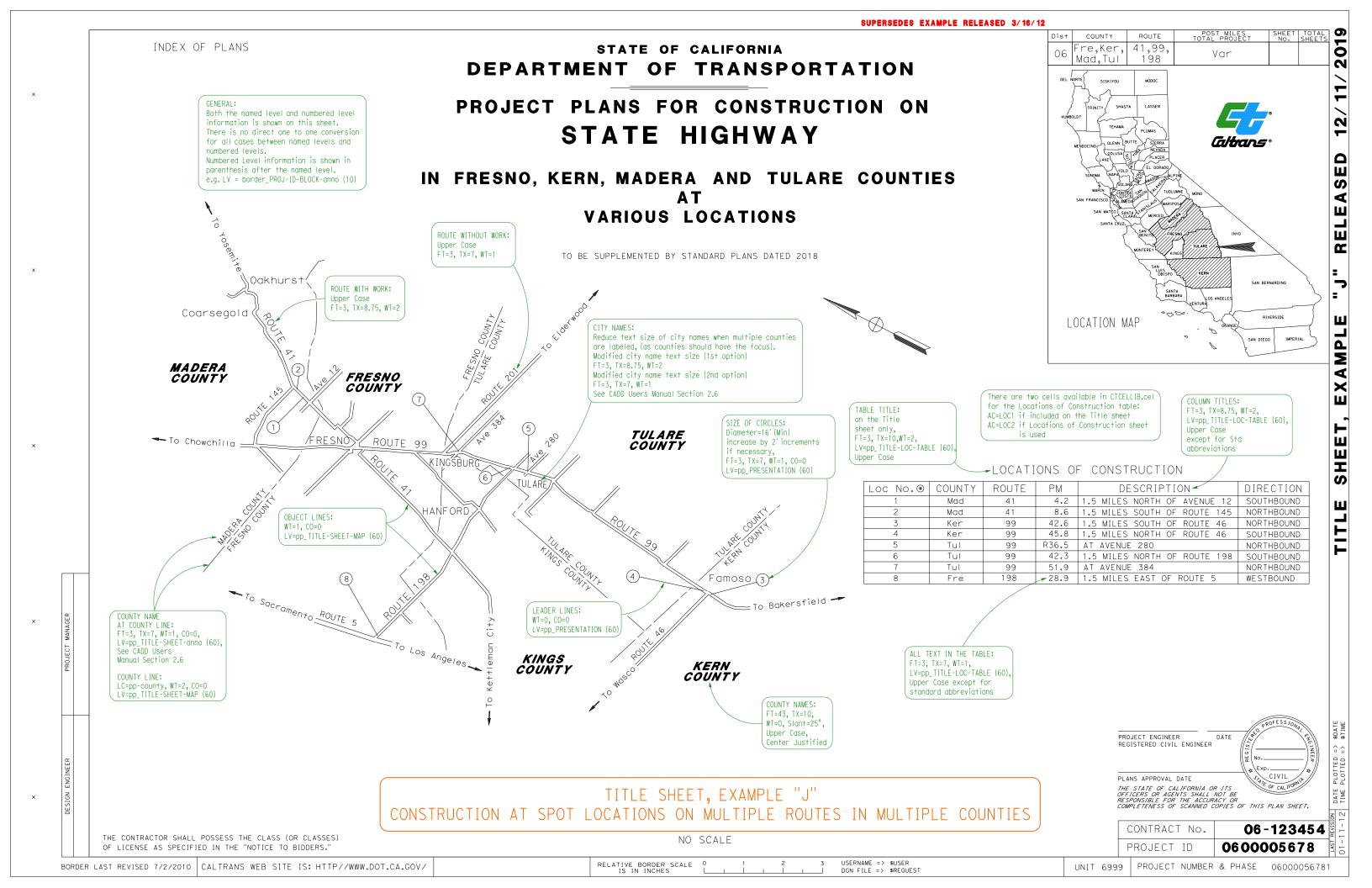


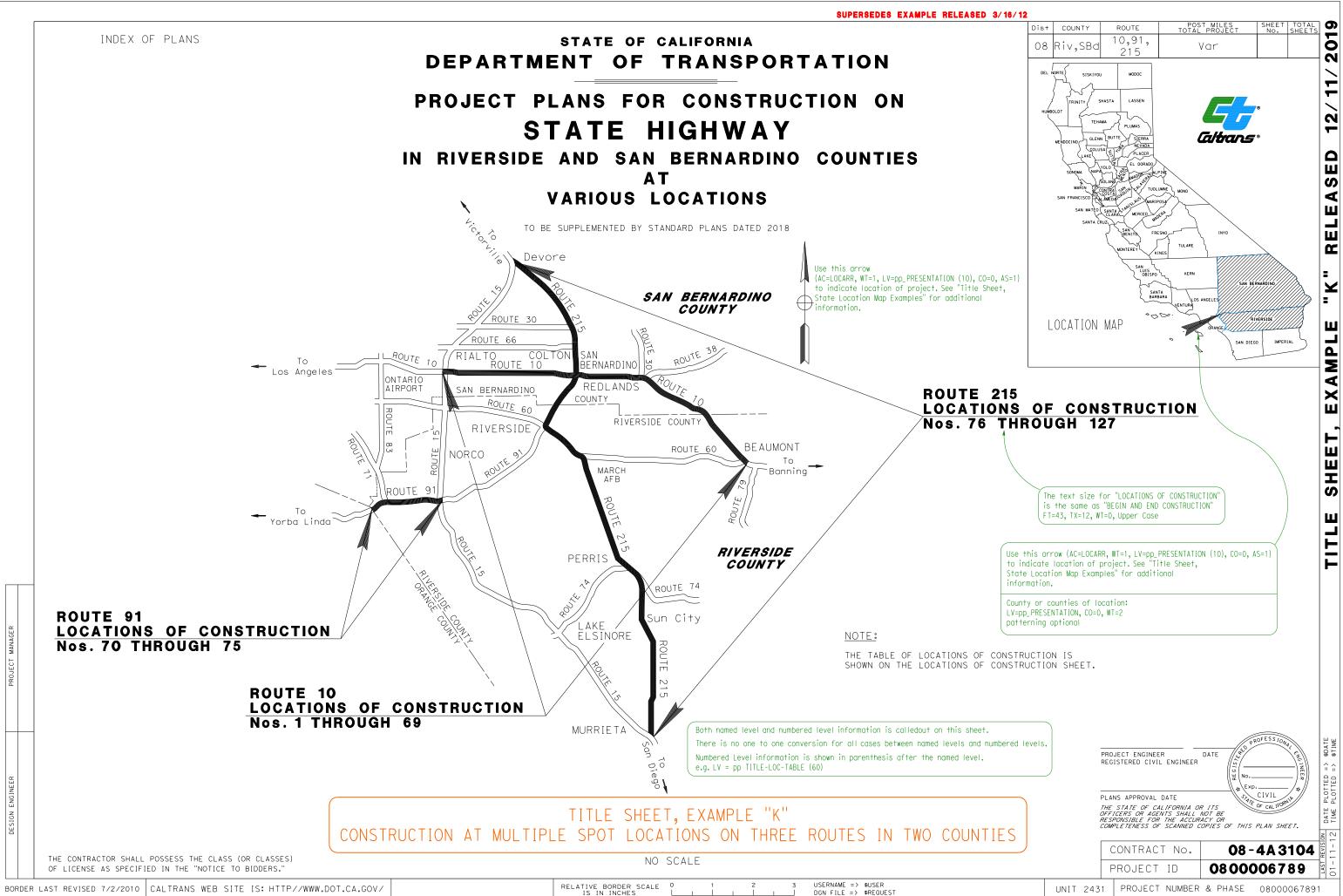












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TABLE TITLE:

above the table.

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Both the named level and numbered level information is shown on this sheet. There is no direct one to one conversion for all cases between named levels and numbered levels. Numbered Level information is shown in parenthesis after the named level. e.g. LV = pp TITLE-LOC-TABLE (60)

COLUMN TITLES: FT=3, TX=8.75, WT=2,

GENERAL:

LV=pp_TITLE-LOC-TABLE (60), Upper Case except for Std abbreviations

If the Locations of Construction table is on a Locations of Construction sheet instead of the title sheet, the cell AC=LOC2 may be used. At a minimum, the table should include location number, county, route and post mile. The post mile column may indicate a "spot" location or a "to/from" location. The cell includes optional columns for description and direction.

LOCATIONS OF CONSTRUCTION

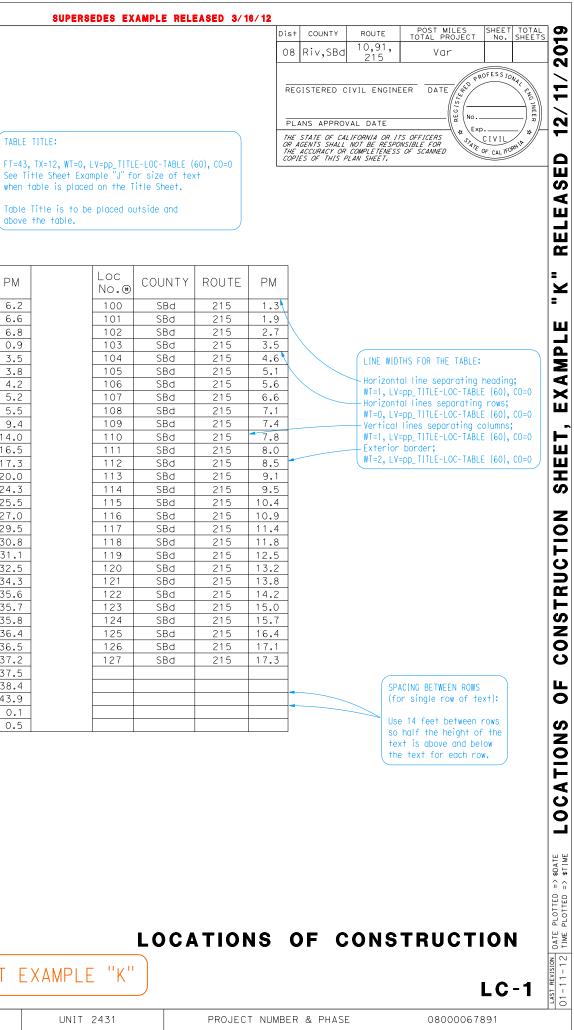
	Loc No.⊕	COUNTY	ROUTE	РM	Loc No.⊕	COUNTY	ROUTE	РM	Loc No.⊕	COUNTY	ROUTE	PM	
	1	SBd	10	9.7	34	SBd	10	28.4	67	Riv	10	6.2	
	2	SBd	10	10.2	35	SBd	10	29.1	68	Riv	10	6.6	
	3	SBd	10	12.1	36	SBd	10	29.5	69	Riv	10	6.8	
	4	SBd	10	12.6	37	SBd	10	29.9	70	Riv	91	0.9	
	5	SBd	10	13.0	38	SBd	10	30.3	71	Riv	91	3.5	
	6	SBd	10	13.4	39	SBd	10	30.7	72	Riv	91	3.8	
	7	SBd	10	13.8	40	SBd	10	30.9	73	Riv	91	4.2	
	8	SBd	10	14.4	41	SBd	10	31.1	74	Riv	91	5.2	
	9	SBd	10	15.1	42	SBd	10	31.7	75	Riv	91	5.5	
	10	SBd	10	15.3	43	SBd	10	32.2	76	Riv	215	9.4	
	11	SBd	10	17.0	44	SBd	10	33.0	77	Riv	215	14.0	
	12	SBd	10	17.7	45	SBd	10	33.4	78	Riv	215	16.5	
	13	SBd	10	18.4	46	SBd	10	34.0	79	Riv	215	17.3	
	14	SBd	10	18.8	47	SBd	10	34.4	80	Riv	215	20.0	
	15	SBd	10	19.3	48	SBd	10	34.8	81	Riv	215	24.3	
	16	SBd	10	19.8	49	SBd	10	35.3	82	Riv	215	25.5	
	17	SBd	10	20.1	50	SBd	10	35.6	83	Riv	215	27.0	
	18	SBd	10	20.8	51	SBd	10	36.3	84	Riv	215	29.5	
	19	SBd	10	21.1	52	SBd	10	36.9	85	Riv	215	30.8	
	20	SBd	10	21.8	53	SBd	10	37.1	86	Riv	215	31.1	
	21	SBd	10	22.0	54	SBd	10	37.8	87	Riv	215	32.5	
(ALL TEXT IN TABLE:	22	SBd	10	22.4	55	SBd	10	38.5	88	Riv	215	34.3	
	- 23	SBd	10	22.8	56	SBd	10	39.1	89	Riv	215	35.6	
FT=3, TX=7, WT=1, LV=DD TITLE-LOC-TABLE (60), CO=0	24	SBd	10	23.1	57	Riv	10	0.2	90	Riv	215	35.7	
Upper Case except for	25	SBd	10	23.4	58	Riv	10	R0.7	91	Riv	215	35.8	
standard abbreviations	26	SBd	10	23.9	59	Riv	10	1.0	92	Riv	215	36.4	
	27	SBd	10	24.4	60	Riv	10	2.0	93	Riv	215	36.5	
	28	SBd	10	25.3	61	Riv	10	R3.0	94	Riv	215	37.2	
	29	SBd	10	26.1	62	Riv	10	3.1	95	Riv	215	37.5	
	30	SBd	10	26.5	63	Riv	10	R3.9	96	Riv	215	38.4	
	31	SBd	10	26.8	64	Riv	10	R4.6	97	Riv	215	43.9	
	32	SBd	10	27.6	65	Riv	10	R5.4	98	SBd	215	0.1	
	33	SBd	10	27.9	66	Riv	10	5.6	99	SBd	215	0.5	

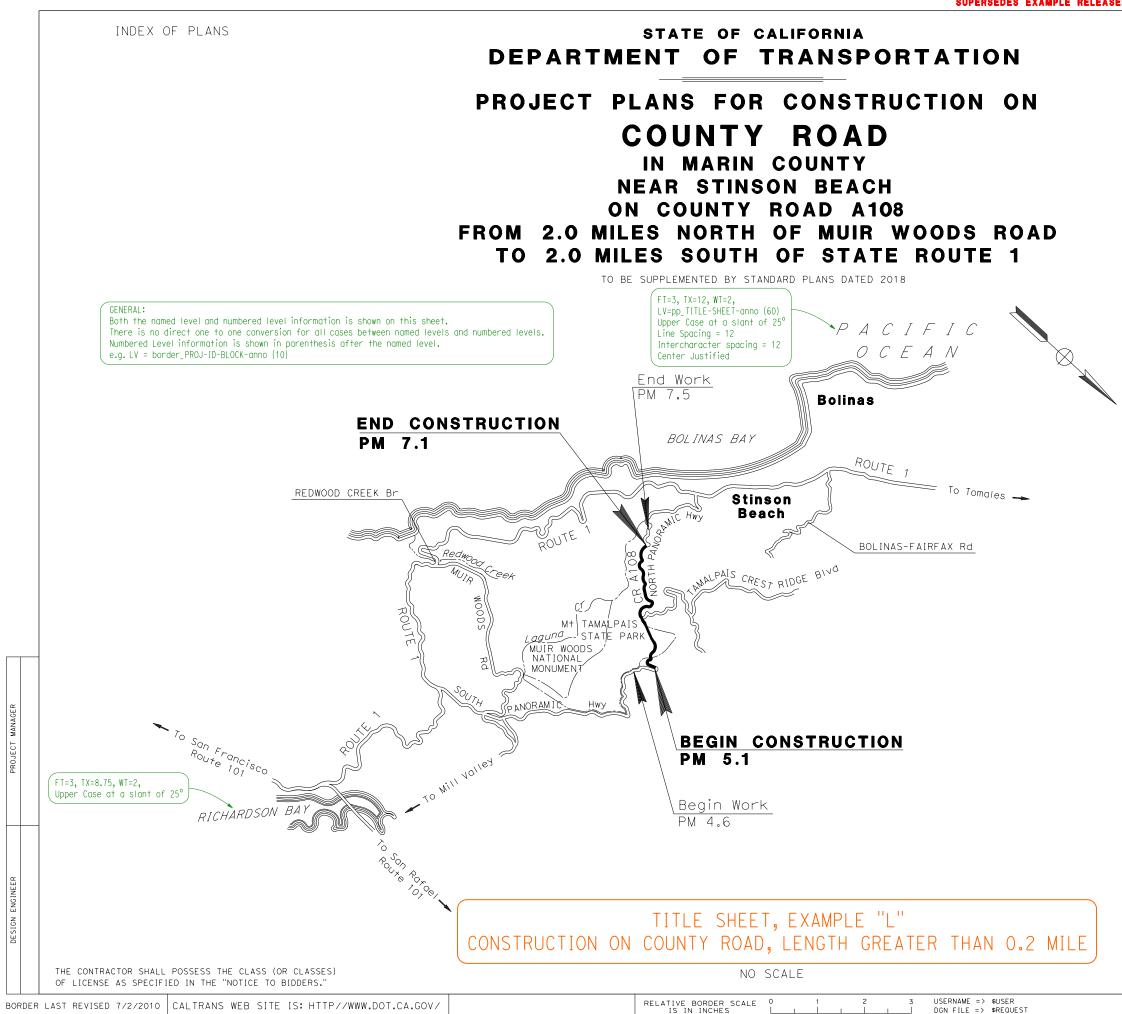
LOCATIONS OF CONSTRUCTION SHEET, FOR TITLE SHEET EXAMPLE "K"

BORDER LAST REVISED 7/2/2010

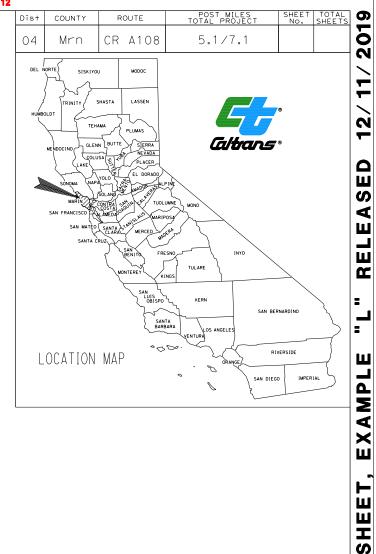
USERNAME => \$USER DGN FILE => \$REQUEST RELATIVE BORDER SCALE IS IN INCHES

UNIT 2431



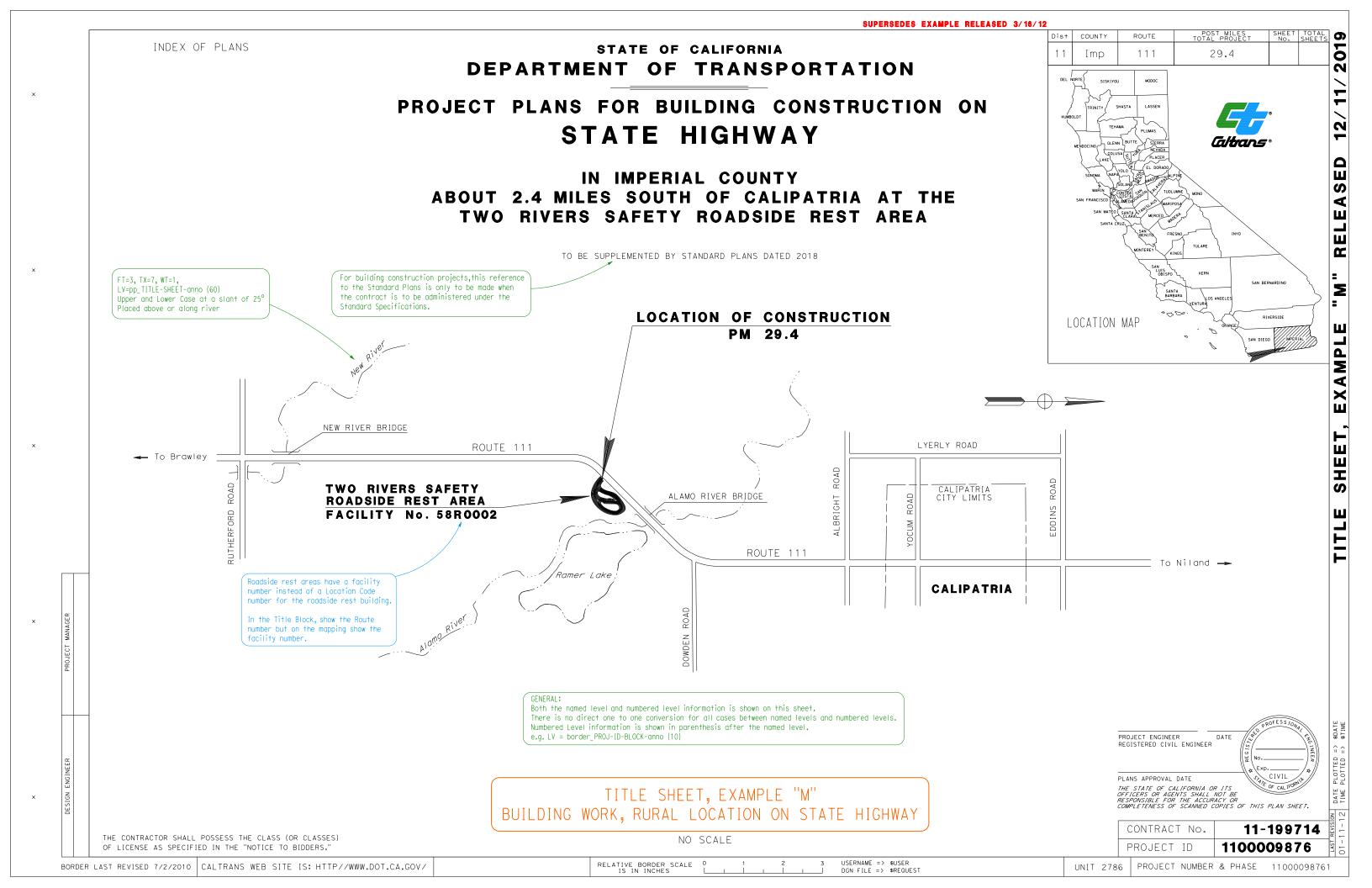


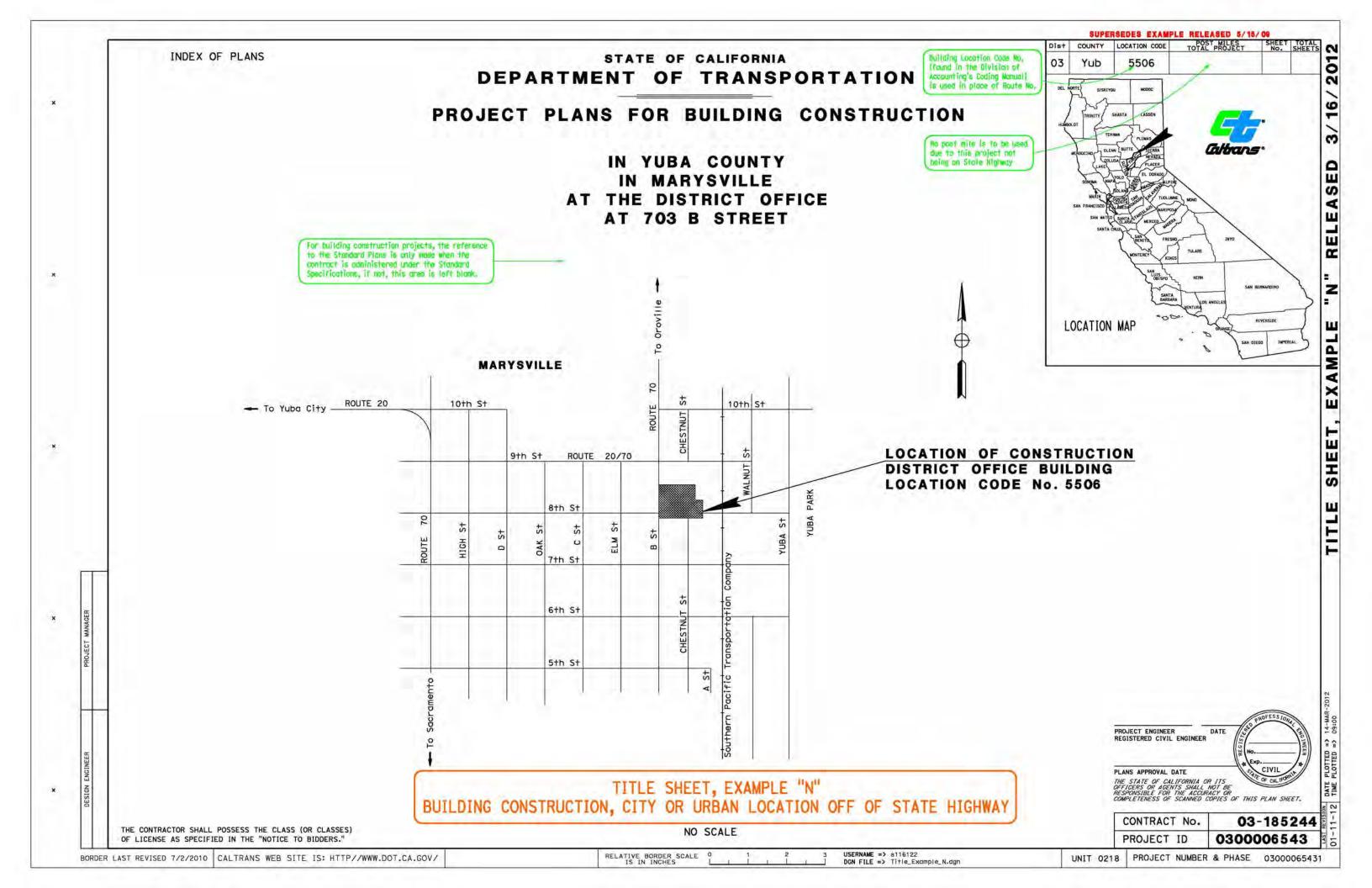


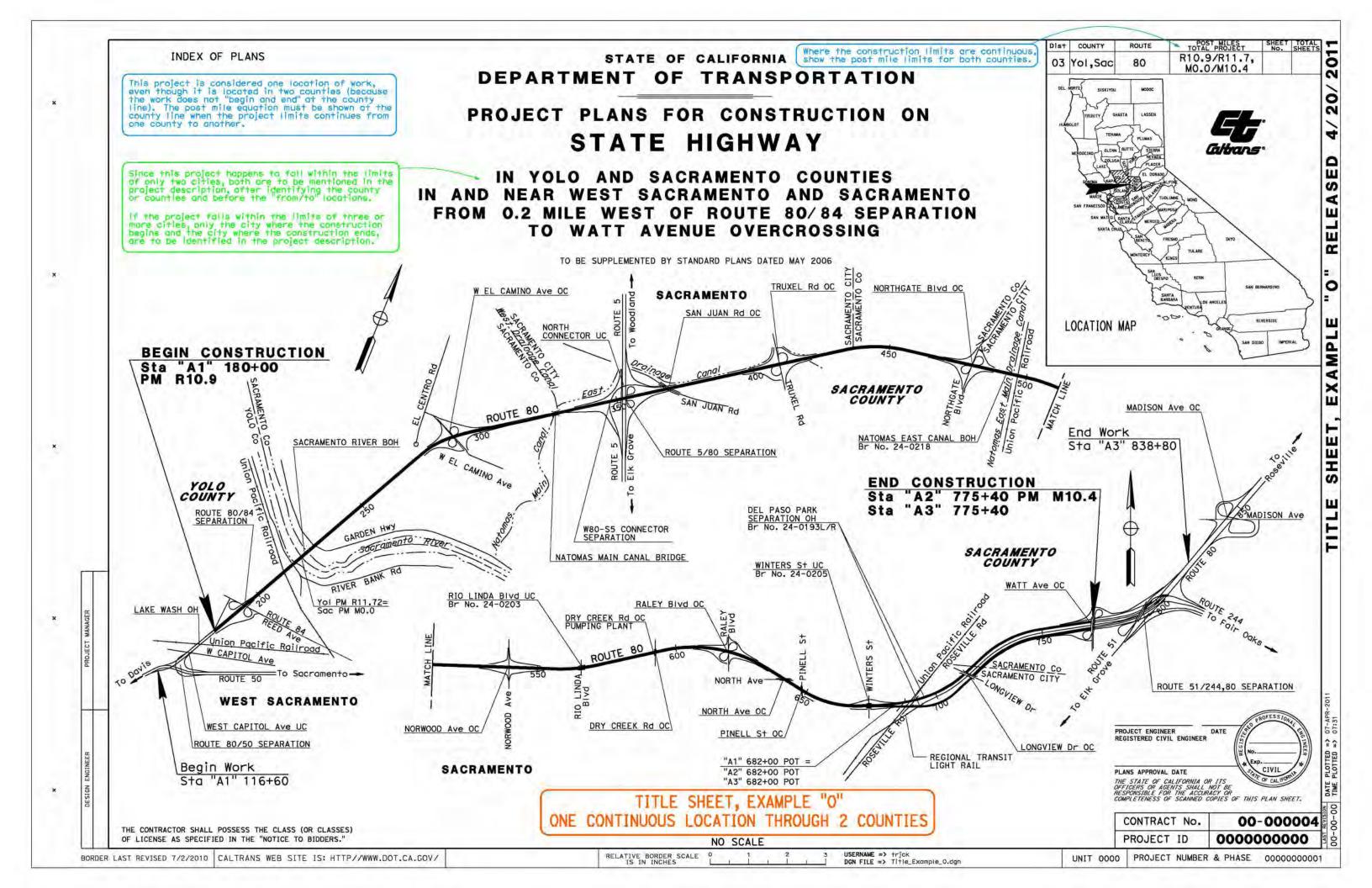


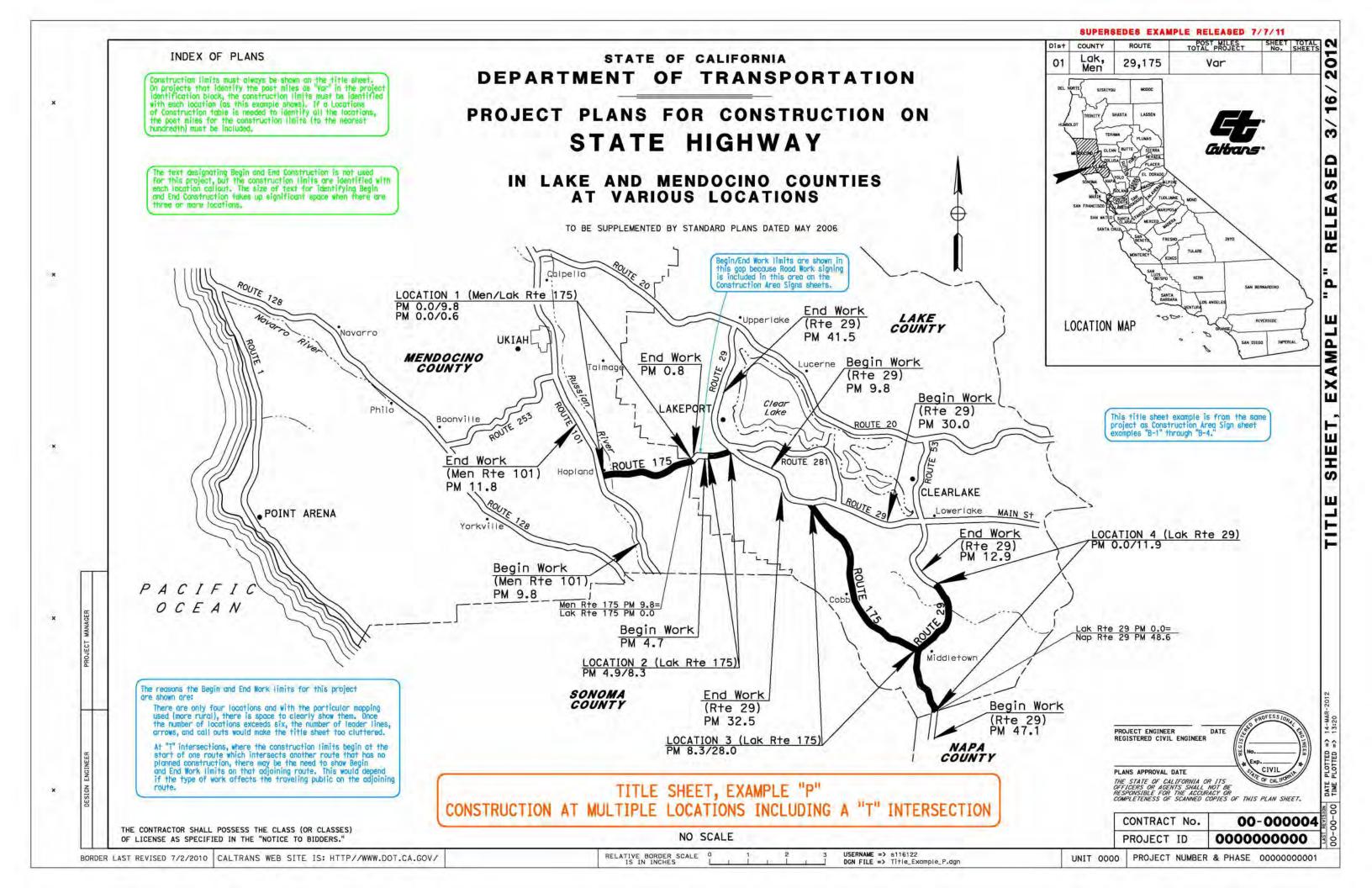
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	LOMP	PLETENESS OF SCANNED (OPIES OF THIS	PLAN SHEET.	NO C
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	F	ROJECT ID	04000)01219	LAST 01 - 1
UNIT 072	2	PROJECT NUMBER	& PHASE	0400001219	1

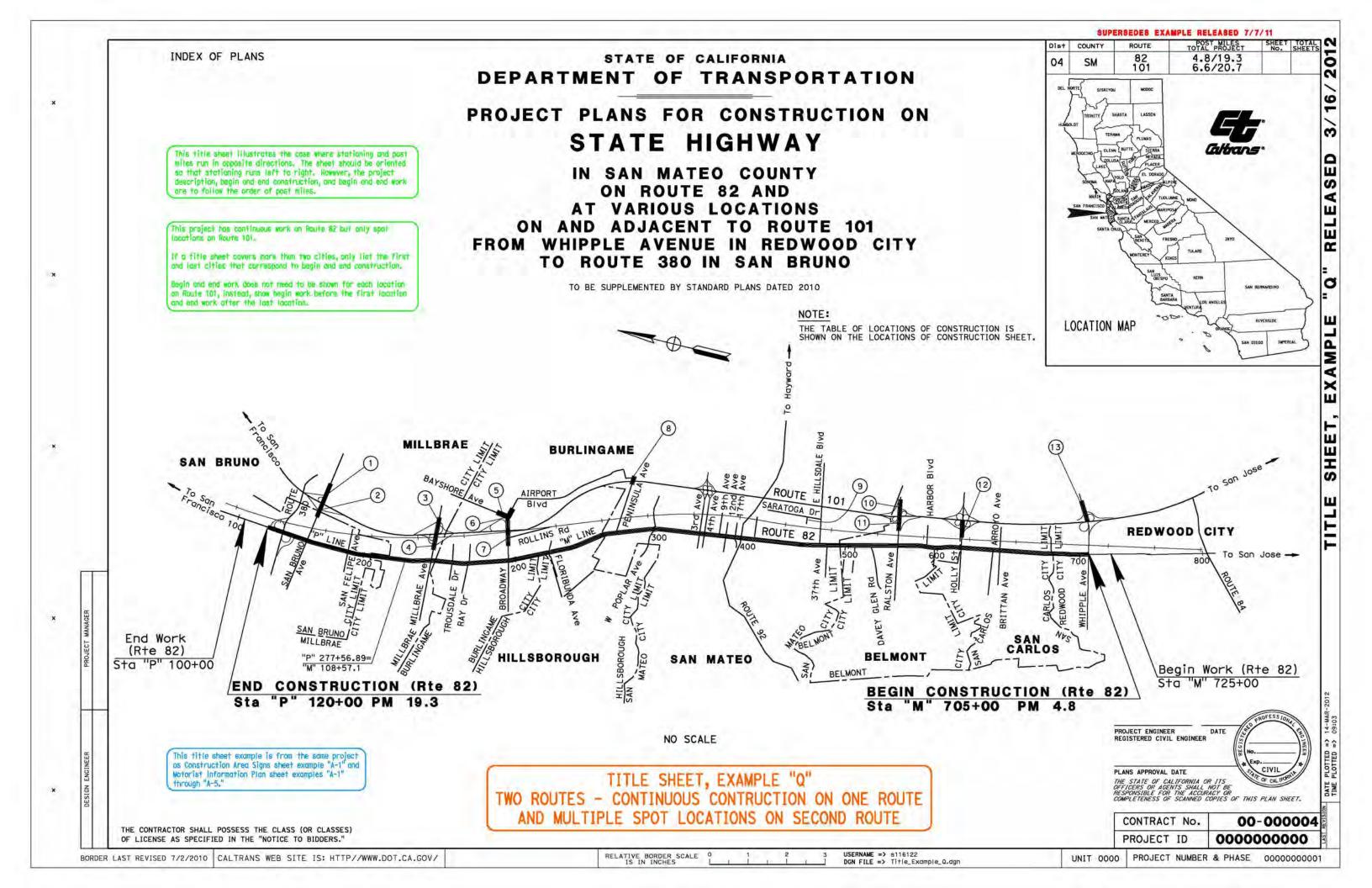
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LOCATIONS OF CONSTRUCTION

Loc No.#	COUNTY	ROUTE	PM	DESCRIPTION
1	SM	101	19.97	SAN BRUNO Ave AND Rte 101 NB RAMPS
2	SM	101	19.97	SAN BRUNO Ave AND Rte 101 SB RAMPS
3	SM	101	18.15	MILLBRAE Ave AND Rte 101 NB RAMPS
4	SM	101	18.15	MILLBRAE Ave AND Rte 101 SB RAMPS
5	SM	101	16.58	BROADWAY AND R+e 101 NB ON-RAMP
6	SM	101	16.70	BROADWAY/ BAYSHORE Ave/ AIRPORT BIVD
7	SM	101	16.71	BROADWAY, ROLLINS Rd AND Rte 101 SB RAMP
8	SM	101	14.69	PENINSULA BIVD AND R+e 101 NB RAMP
9	SM	*		200 FRANKLIN PKwy W
10	SM	101	9.55	RALSTON AVE AND R+E 101 NB RAMPS
11	SM	101	9.55	RALSTON AVE AND R†E 101 SB RAMPS
12	SM	101	8.62	HOLLY ST AND RTE 101 RAMPS
13	SM	101	6.60	WHIPPLE Ave AND Rte 101 RAMPS

* LOCAL STREET

LOCATIONS OF CONSTRUCTION SHEET, FOR TITLE SHEET EXAMPLE "Q"

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RELATIVE BORDER SCALE IS IN INCHES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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PL/	ANS APPROV	VAL DATE	E×p		_/_~́H



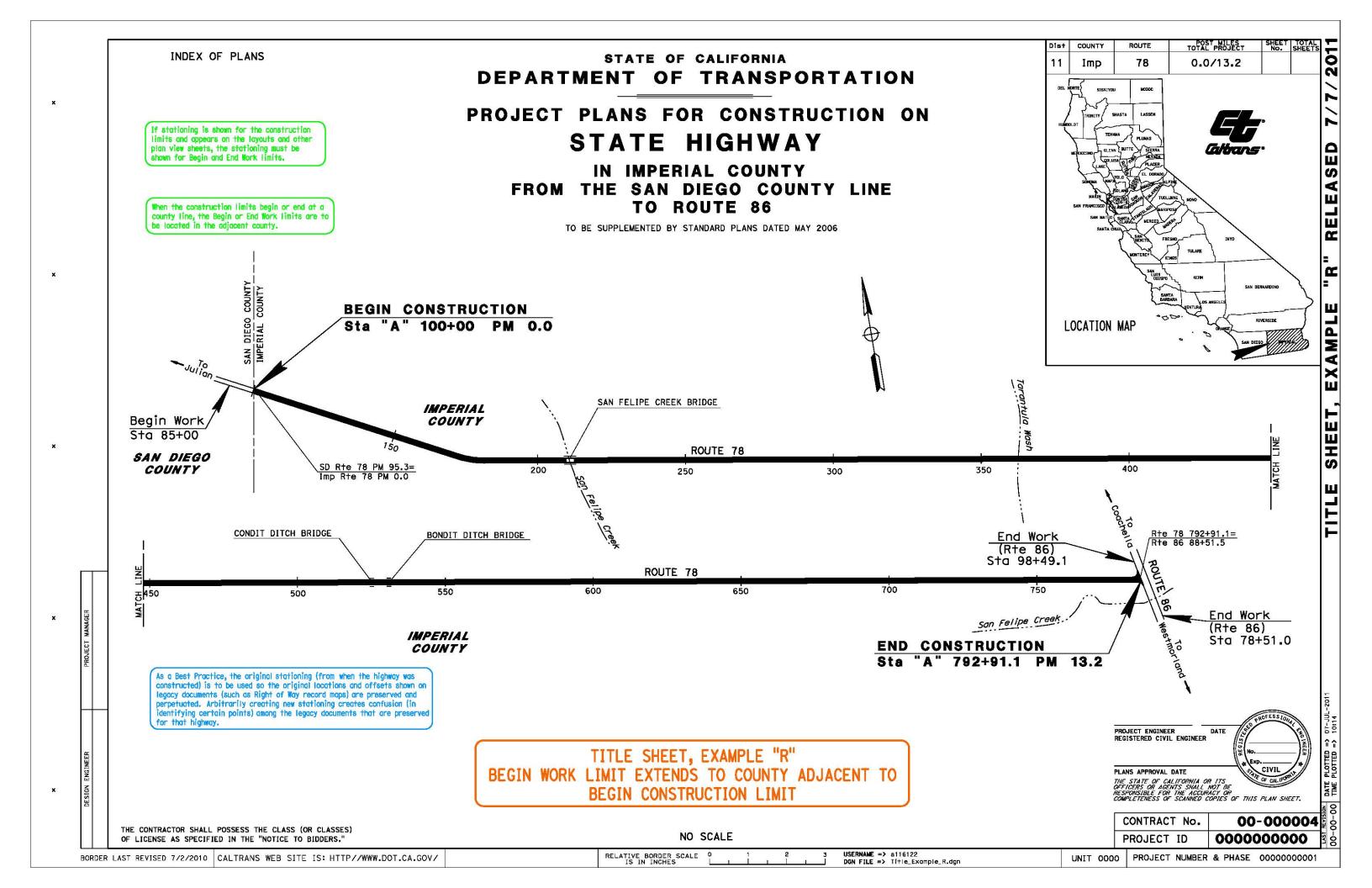
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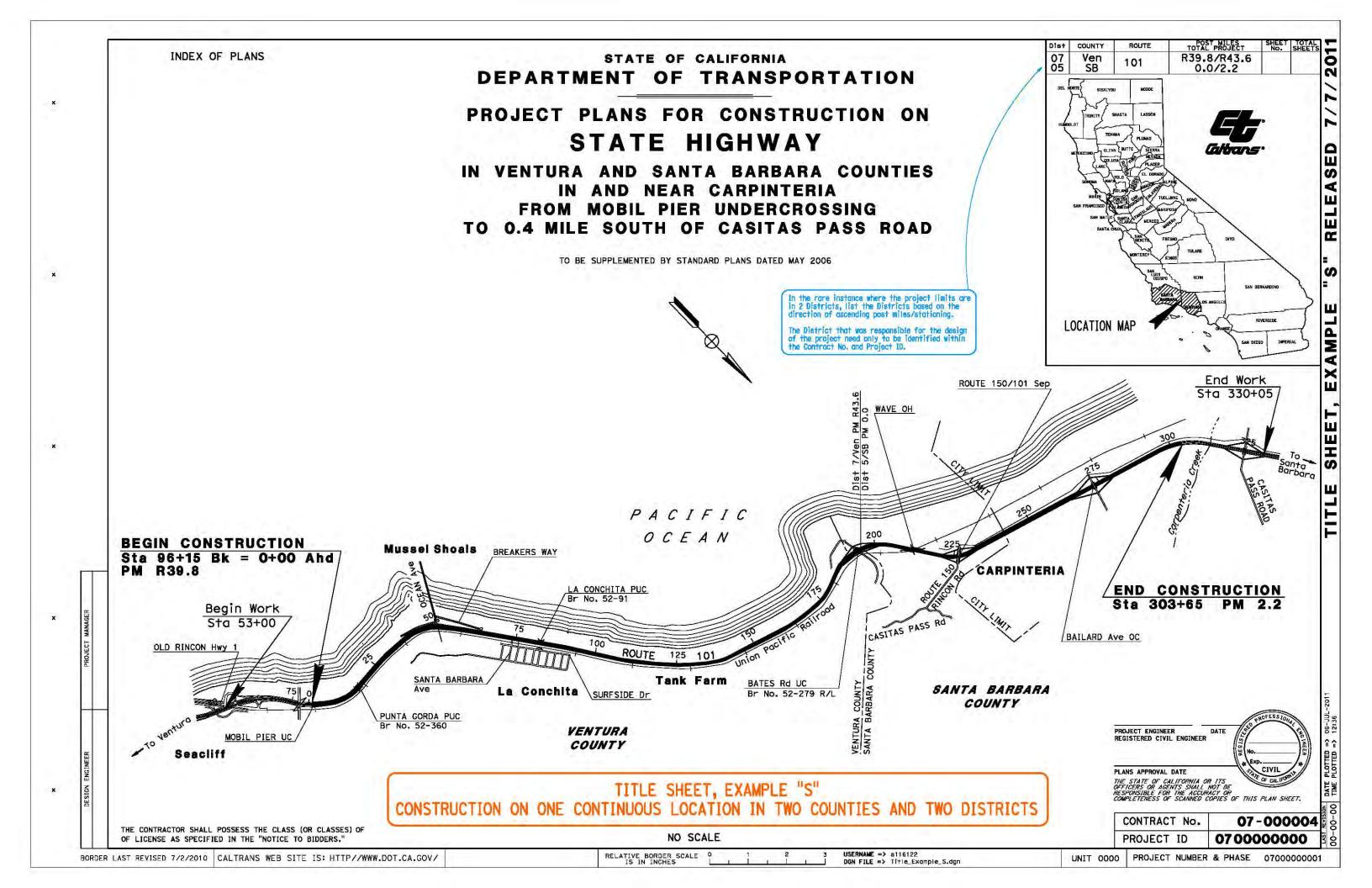
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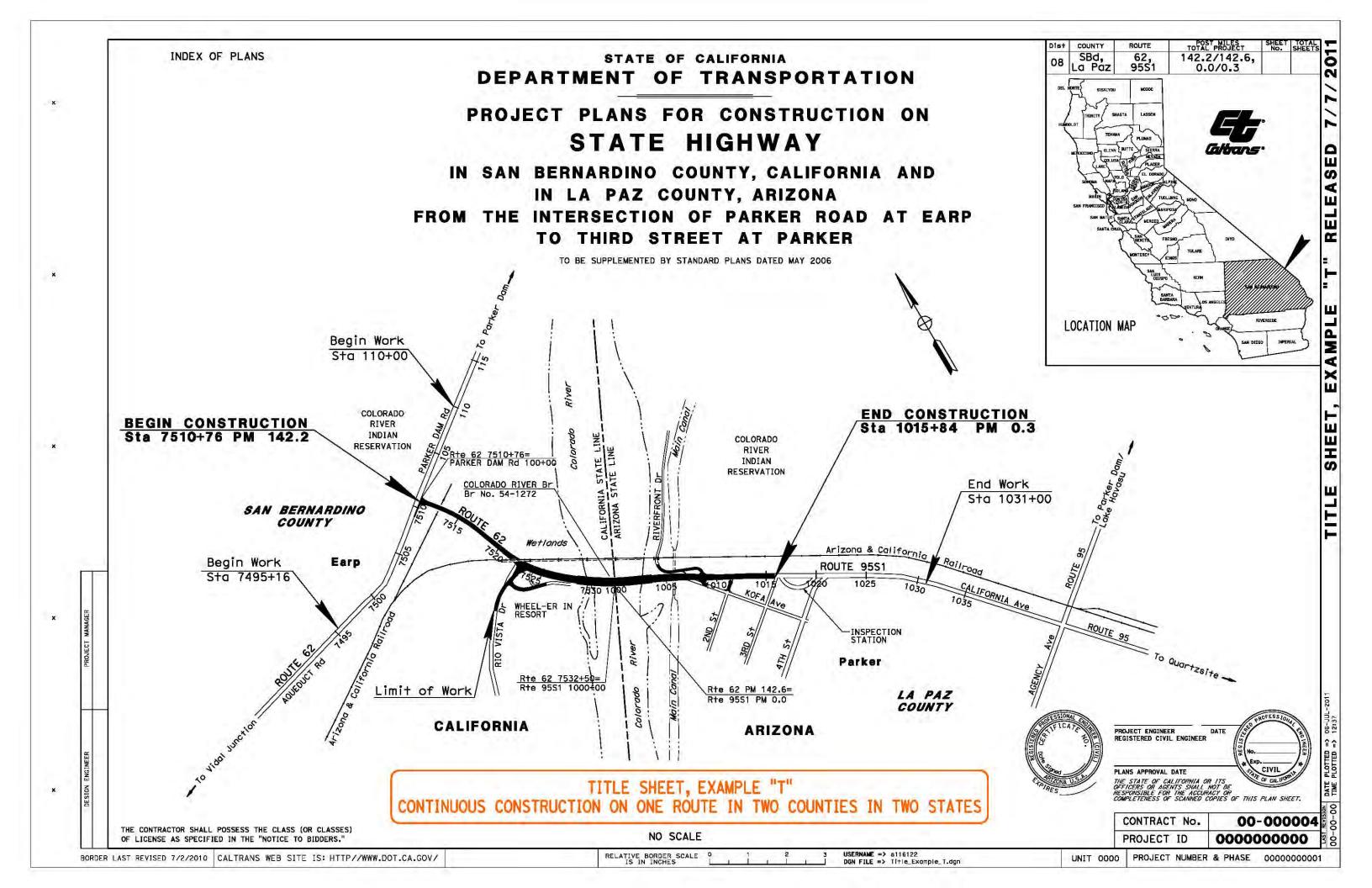
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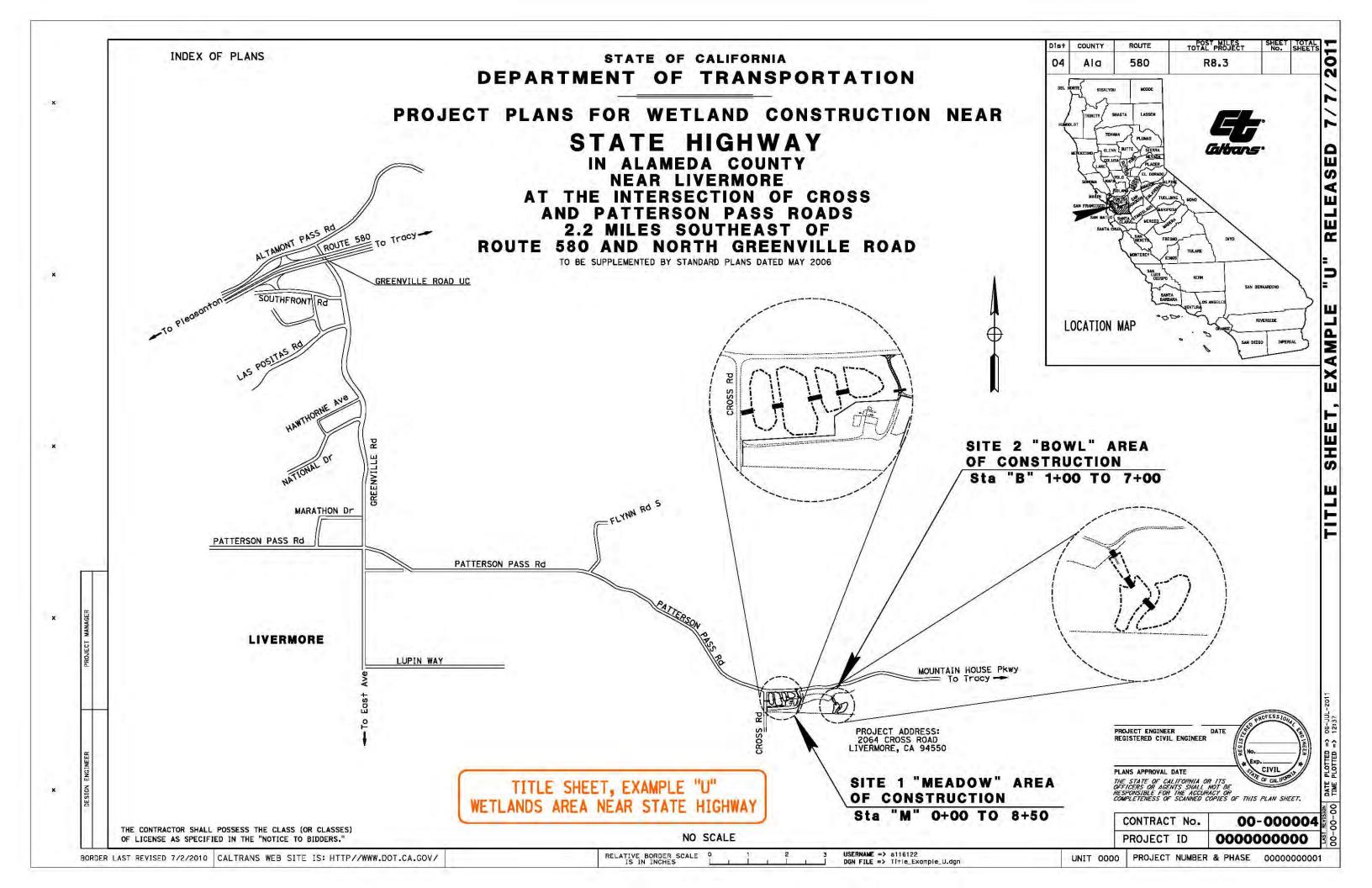
PROJECT NUMBER & PHASE

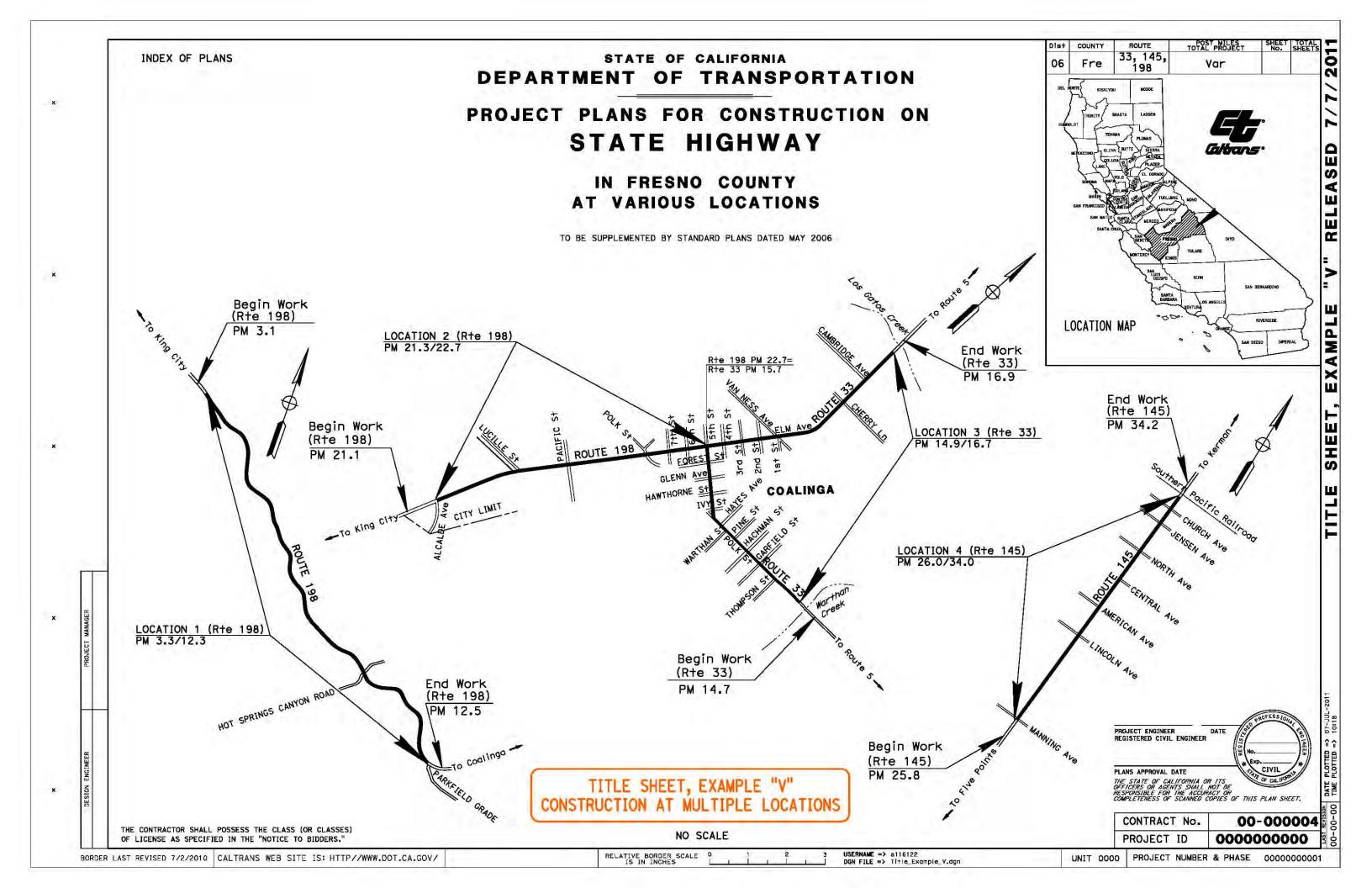
LOCATIONS OF CONSTRUCTION

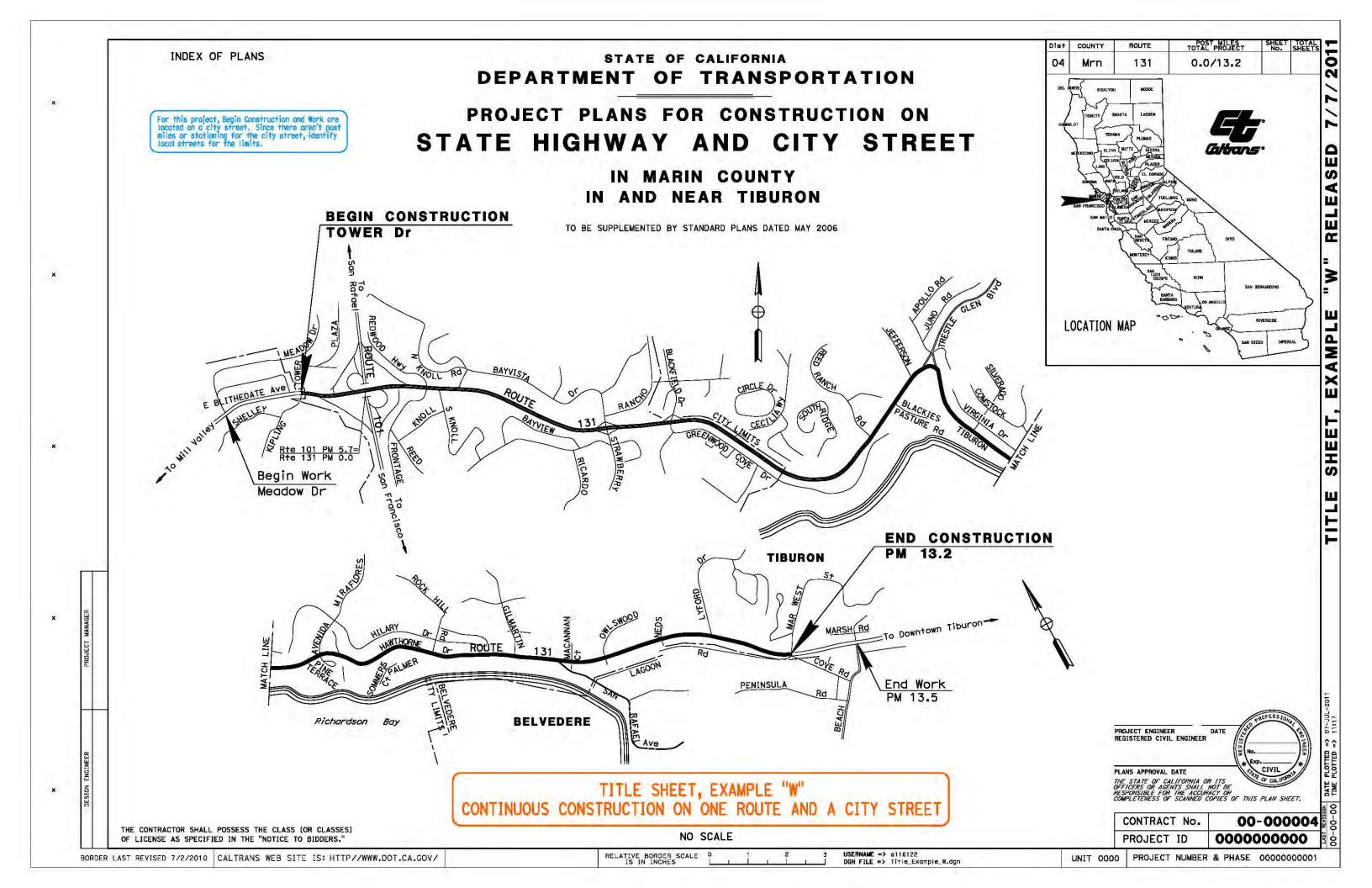


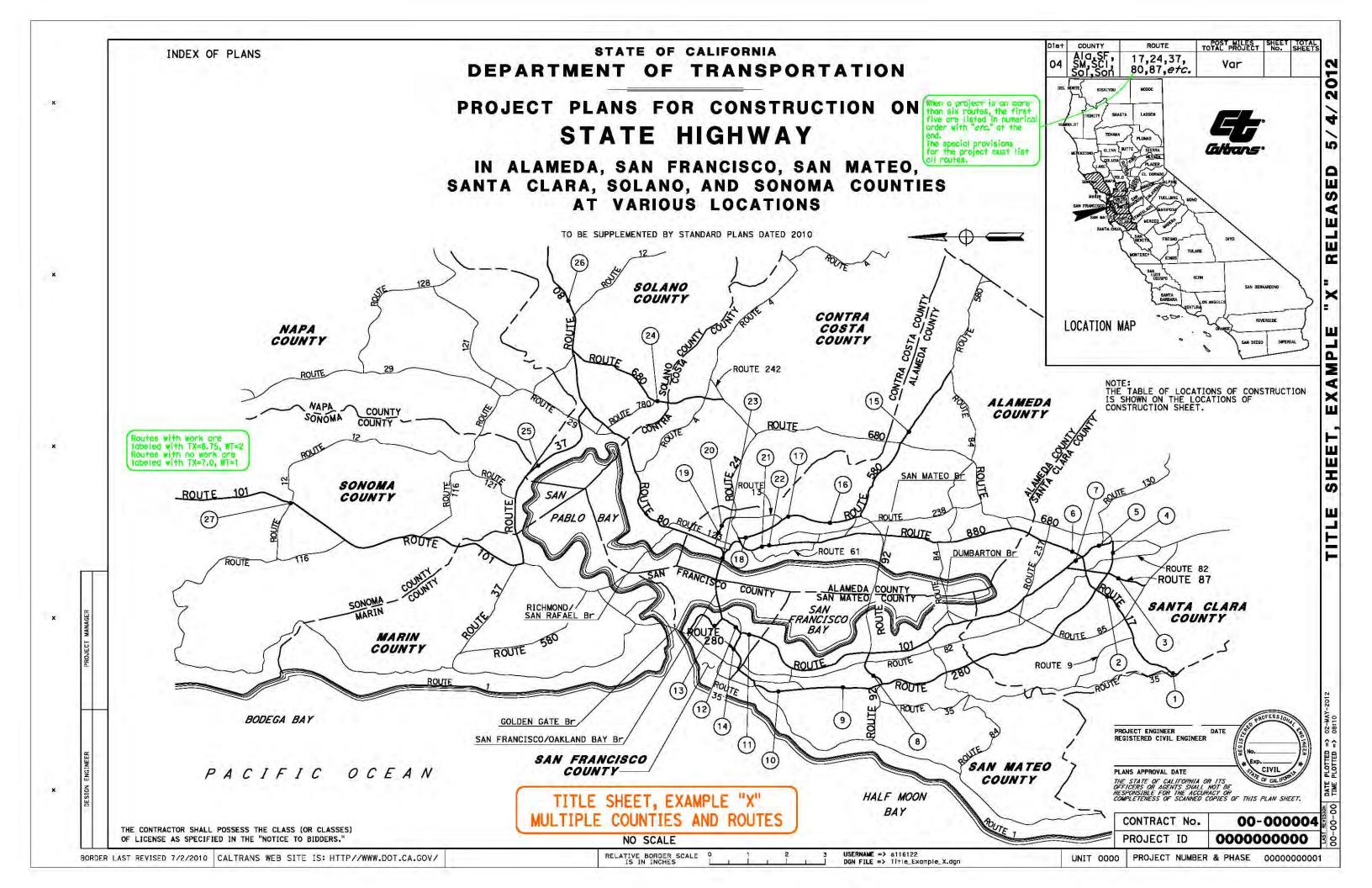


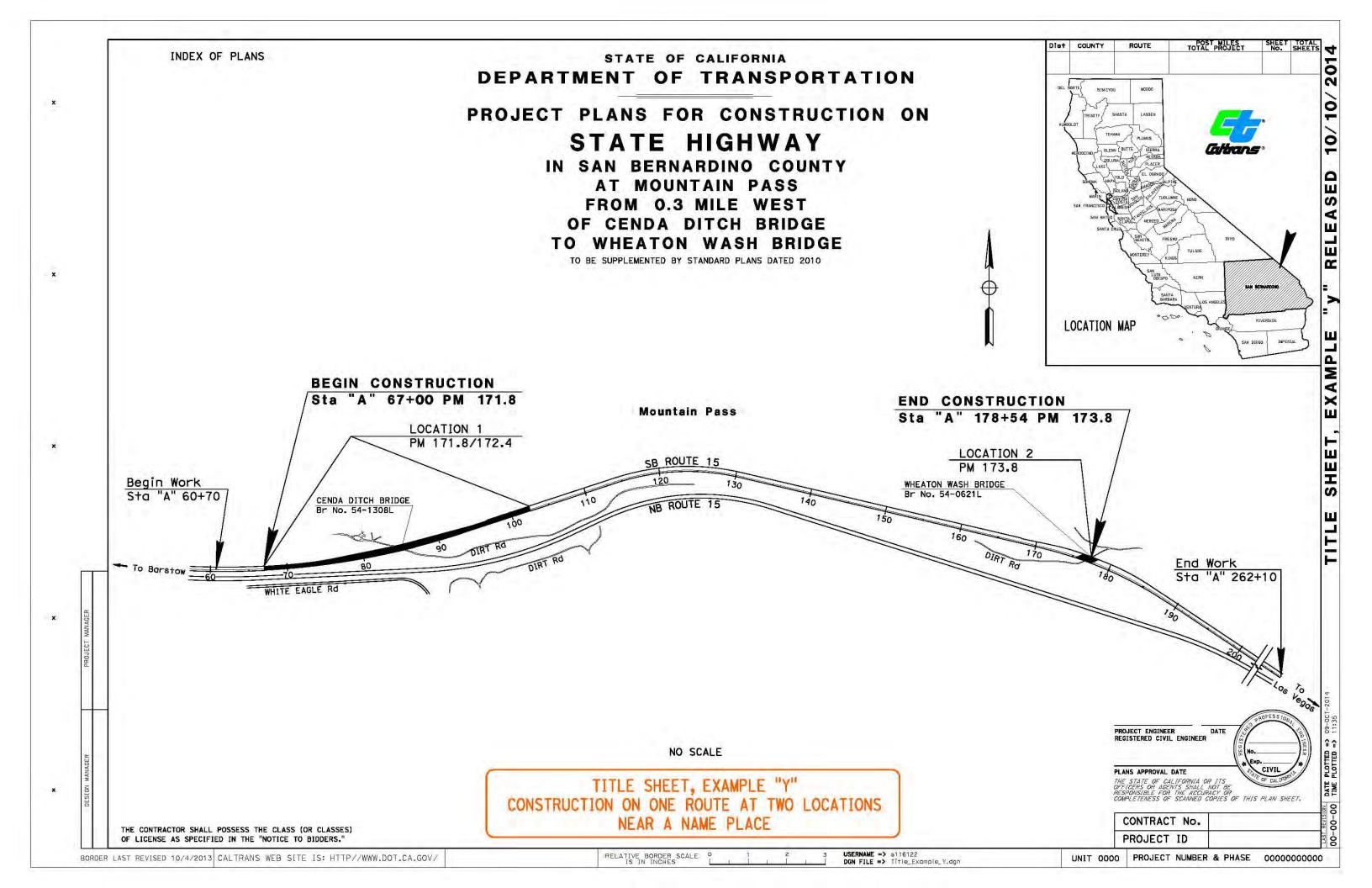












Note: This table includes an additional column for CMS numbers. Different districts may have different numbering schemes for their Changeable Message Signs.

LOCATIONS OF CONSTRUCTION

Loc No.⊕	CMS No.	COUNTY	ROUTE	PM	DIRECTION	CMS LOCATION
1	CM036	SCI	17	6.1	SB	SANTA CRUZ Ave ON-RAMP
2	CM035	SCI	17	11.5	SB	S OF CAMPBELL Ave OC
3	CMO81	SCI	87	2.5	NB	200 F† S OF CAROL Dr
4	CM033	SCI	280	R0.76	NB	N OF MCLAUGHLIN Ave UC
5	CM075	SCI	880	3.0	NB	N OF COLEMAN AVE OC
6	CM074	SCI	880	5.4	SB	N OF BROKAW Rd
7	CM082	SCI	101	43.4	SB	S OF LAWRENCE Exp
8	CM072	SM	92	R8.67	WB	100 F† W OF DE ANZA BIVd IC
9	CM1 35	SM	280	R15.0	SB	N OF BLACK MOUNTAIN Rd
10	CM137	SM	280	22.2	SB	S OF HICKEY BIVd
11	CM079	SF	101	0.19	NB	N OF CANDLESTICK Dr
12	CM028	SF	101	3.0	SB	N OF ARMY S+
13	CM043	SF	101	R5.14	SB	S VAN NESS Ave ON-RAMP
14	CM080	SF	280	R3.1	NB	MISSION S+ OC
15	CM111	Ala	580	18.4	WB	HACIENDA Rd OFF-RAMP
16	CM109	Ala	580	R33.6	EB	E OF GRAND Ave
17	CM108	Ala	580	R37.0	WB	E OF FONTAINE S+ OC
18	CM097	Ala	580	44.0	WB	CHETWOOD S+ OC
19	CM096	Ala	24	R2.9	WB	SHATTUCK Ave/55TH St
20	CM025	Ala	24	R3.5	EB	W OF BROADWAY OFF-RAMP
21	CM098	Ala	880	31.0	NB	S OF OAK ST OFF-RAMP
22	CM068	Ala	880	R32.6	NB	7TH S+ ON-RAMP TO N880
23	CM078	Ala	80	6.2	EB	E OF UNIVERSITY Ave
24	CM054	Sol	680	R0.8	SB	S OF BAYSHORE Rd
25	CM107	Sol	37	9.0	WB	W OF Jct Rte 29
26	CM029	Sol	80	14.0	WB	CORDELIA WEIGH STATION
27	CM113	Son	101	21.6	SB	90 MILES S OF STEELE LANE



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LOCATIONS OF CONSTRUCTION SHEET, FOR TITLE SHEET EXAMPLE "X"

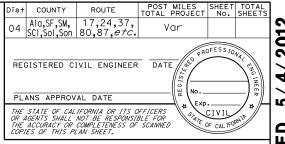
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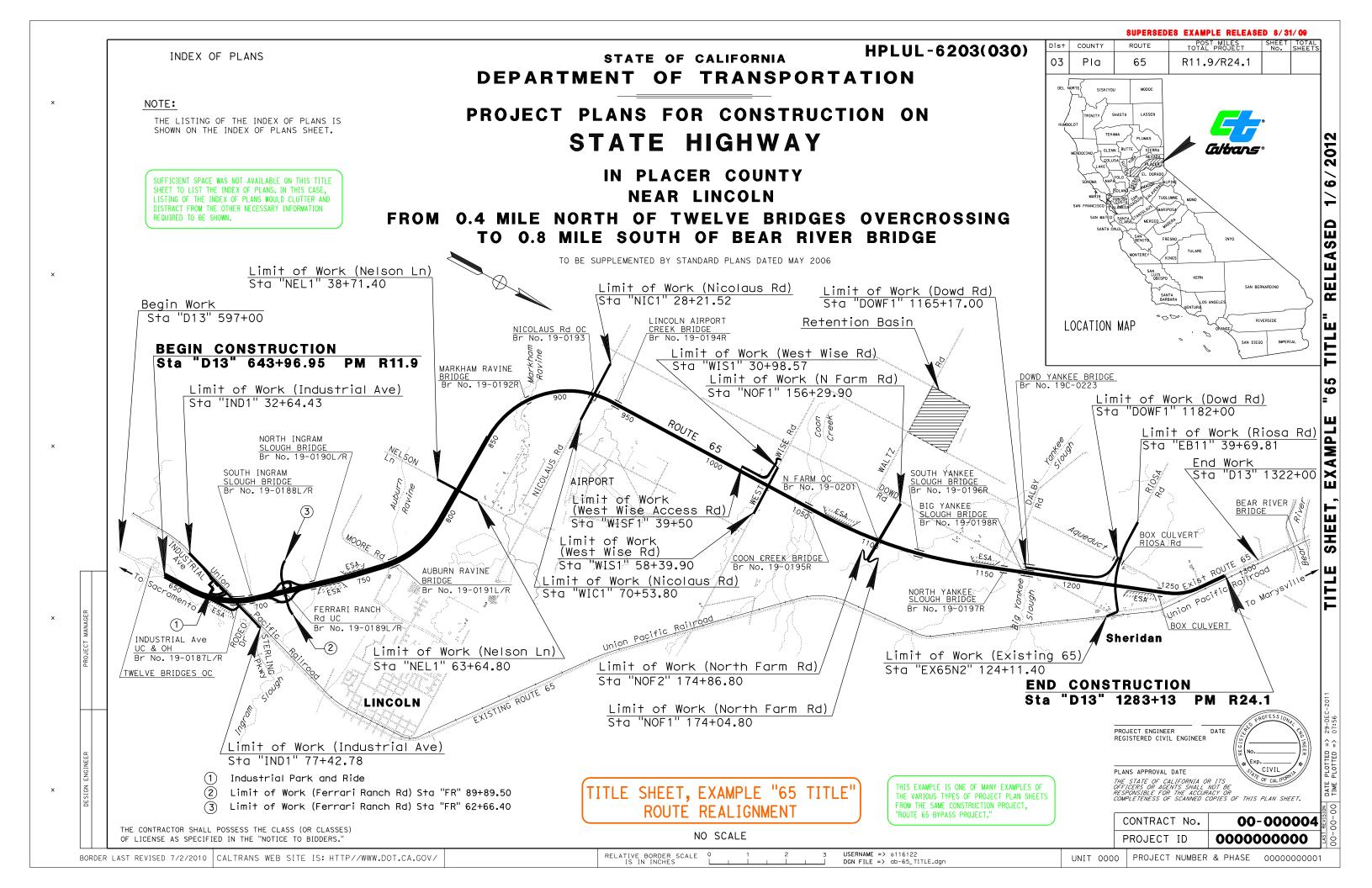
LOCATIONS OF CONSTRUCTION

RELATIVE BORDER SCALE IS IN INCHES





PROJECT NUMBER & PHASE



INDEX OF PLANS SHEET NO. DESCRIPTION TITLE AND LOCATION MAP SED INDEX OF PLANS Н TYPICAL CROSS SECTIONS 3-25 REVI REVISED KEY MAP AND LINE INDEX 26 27-118 LAYOUTS DATE 119-226 PROFILES AND SUPERELEVATION DIAGRAMS CONSTRUCTION DETAILS 227-292 293 TEMPORARY WATER POLLUTION CONTROL DETAILS 294-328 CONTOUR GRADING 329-546 DRAINAGE PLANS, PROFILES, DETAILS AND QUANTITIES UTILITY PLANS, PROFILES, DETAILS AND QUANTITIES 547-620 621 CONSTRUCTION AREA SIGNS 622-822 STAGE CONSTRUCTION PLANS, DETAILS AND QUANTITIES PAVEMENT DELINEATION PLANS, DETAILS AND QUANTITIES 823-885 886-917 SIGN DETAILS AND QUANTITIES SUMMARY OF QUANTITIES 918-932 933-1002 SOUND WALL PLANS 1003-1096 ELECTRICAL PLANS 1097-1147 NEW AND REVISED STANDARD PLANS STRUCTURE PLANS CALCULATED-DESIGNED BY В 1148-1173 INDUSTRIAL AVE UC AND OH LEFT, Br No. 19-0187L CHECKED 1174-1198 INDUSTRIAL AVE UC AND OH RIGHT, Br No. 19-0187R 1199-1218 SOUTH INGRAM SLOUGH Br LEFT, Br No. 19-0188L 1219-1237 SOUTH INGRAM SLOUGH Br RIGHT, Br No. 19-0188R 1238-1261 FERRARI RANCH Rd UC, Br No. 19-0189L/R 1262-1288 NORTH INGRAM SLOUGH Br, Br No. 19-0190L/R 1289-1290 RETAINING WALL No. 2 1291-1313 AUBURN RAVINE Br RIGHT, Br No. 19-0191R 1314-1335 MARHAM RAVINE Br RIGHT, Br No. 19-0192R 1336-1351 NICOLAUS Rd OC, Br No. 19-0193 1352-1365 LINCOLN AIRPORT Cr Br RIGHT, Br No. 19-0194R 1366-1383 COON Cr Br RIGHT, Br No. 19-0195R 1384-1396 SOUTH YANKEE Br RIGHT, Br No. 19-0196R 1397-1409 NORTH YANKEE Br RIGHT, Br No. 19-0196R 1410-1424 BIG YANKEE SLOUGH Br RIGHT, Br No. 19-0198R 1425-1439 NORTH FARM OC, Br No. 19-0201 1440 DOWD Rd Br AND BIG YANKEE SLOUGH, Br No. 19C-223 1441-1456 DOWD YANKEE Br, Br No. 19C-0223 1457-1461 RETAINING WALL No. 1 WITH SOUND WALL, Br No. 19E0002 1462-1465 AUBURN RAVINE Br LEFT, Br No. 19-0191L TRANSPORTATION THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK. THIS SHEET ONLY TO BE USED IN THE RARE INSTANCES WHEN SUFFICIENT SPACE IS NOT AVAILABLE ON THE TITLE SHEET TO DEPARTMENT OF LIST THE INDEX OF PLANS. CALIFORNIA Gutrans INDEX OF PLANS SHEET, EXAMPLE "65 INDEX" (FOR TITLE SHEET, EXAMPLE "65 TITLE") THIS EXAMPLE IS ONE OF MANY EXAMPLES OF THE VARIOUS TYPES OF PROJECT PLAN SHEETS Ь FROM THE SAME CONSTRUCTION PROJECT, STATE "ROUTE 65 BYPASS PROJECT."

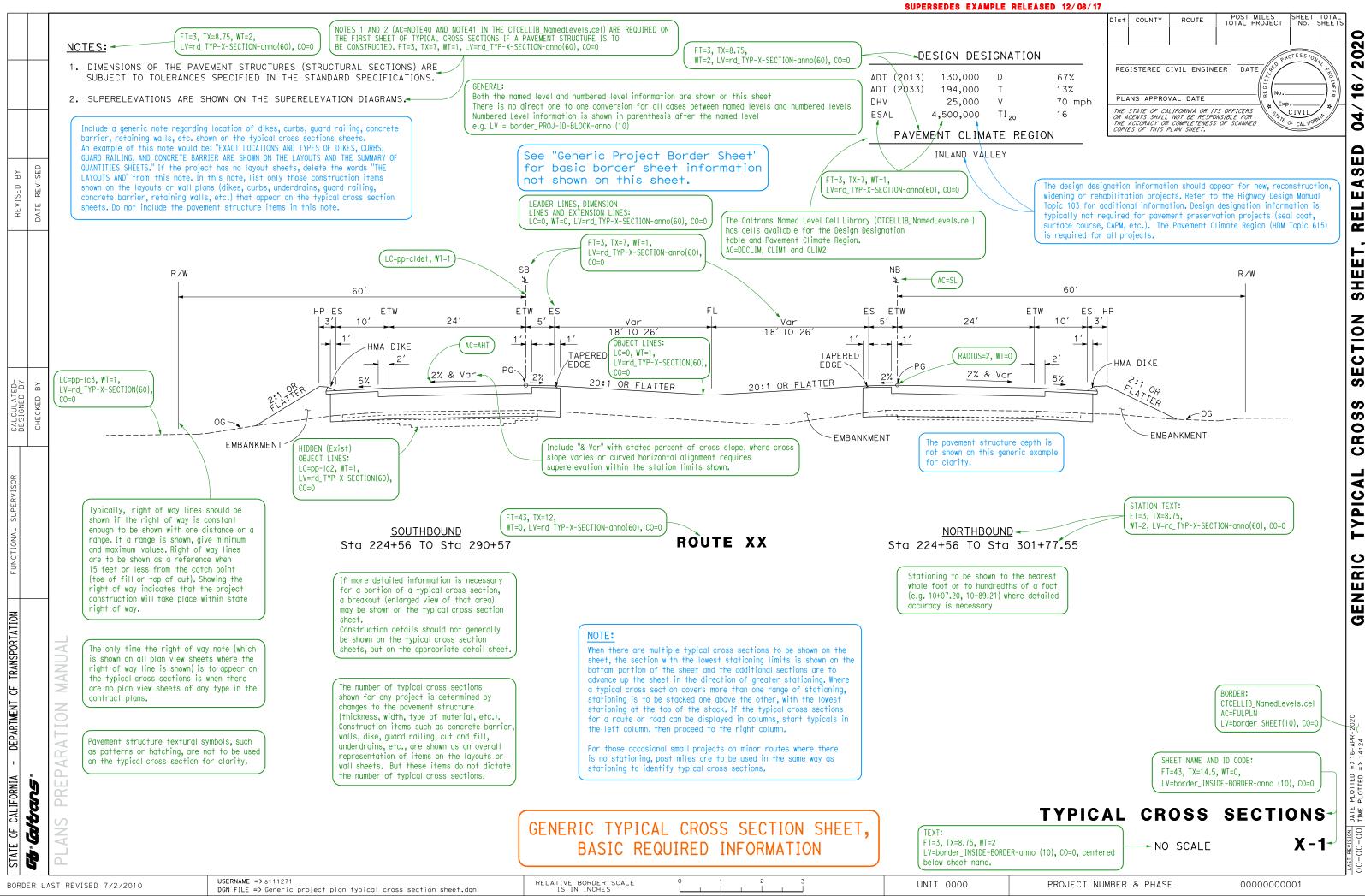
BORDER LAST REVISED 7/2/2010

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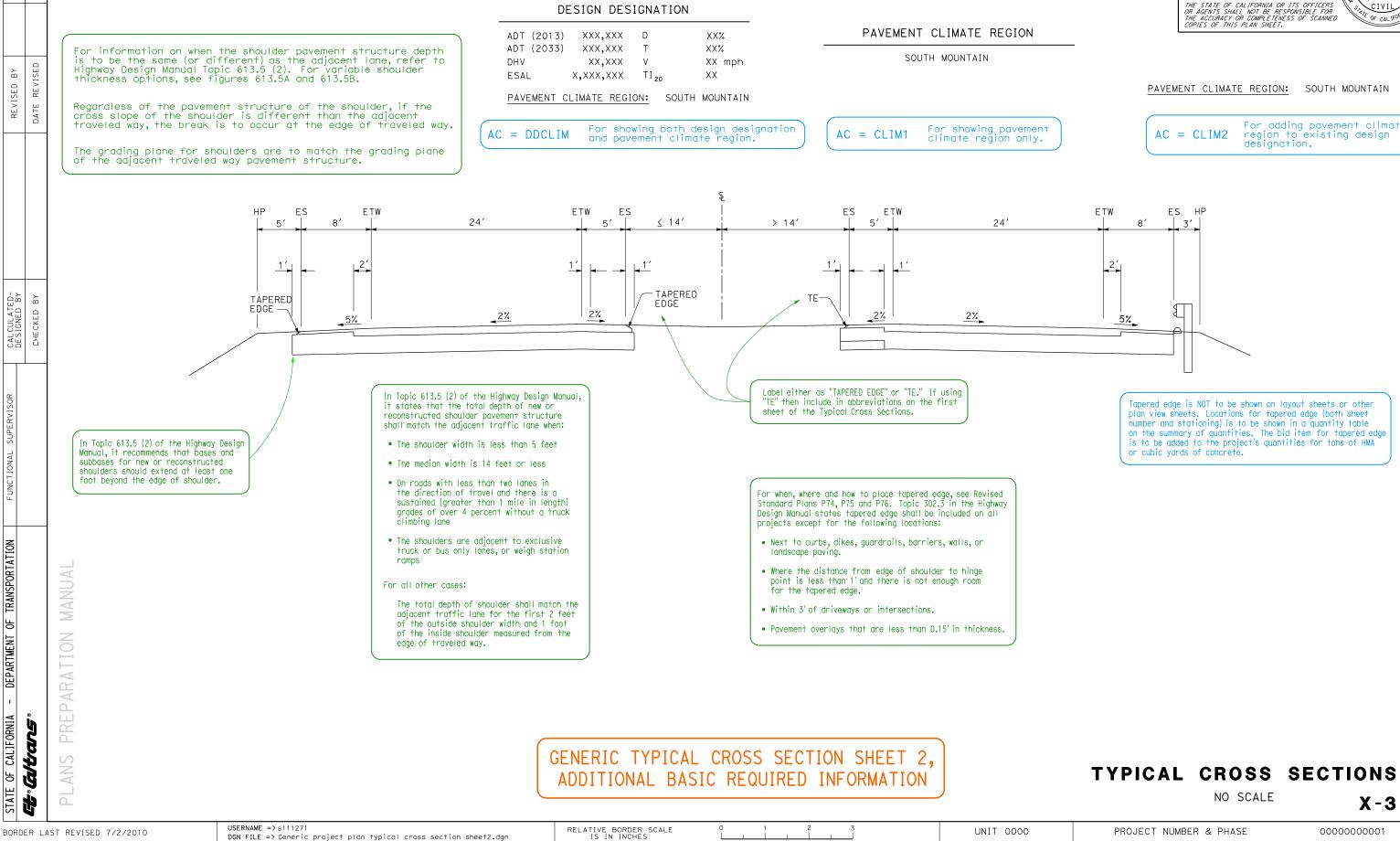
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TAPERED EDGE, PAVEMENT CLIMATE REGION AND PAVEMENT STRUCTURE FOR SHOULDERS



DGN FILE => Generic project plan typical cross section sheet2.dgr

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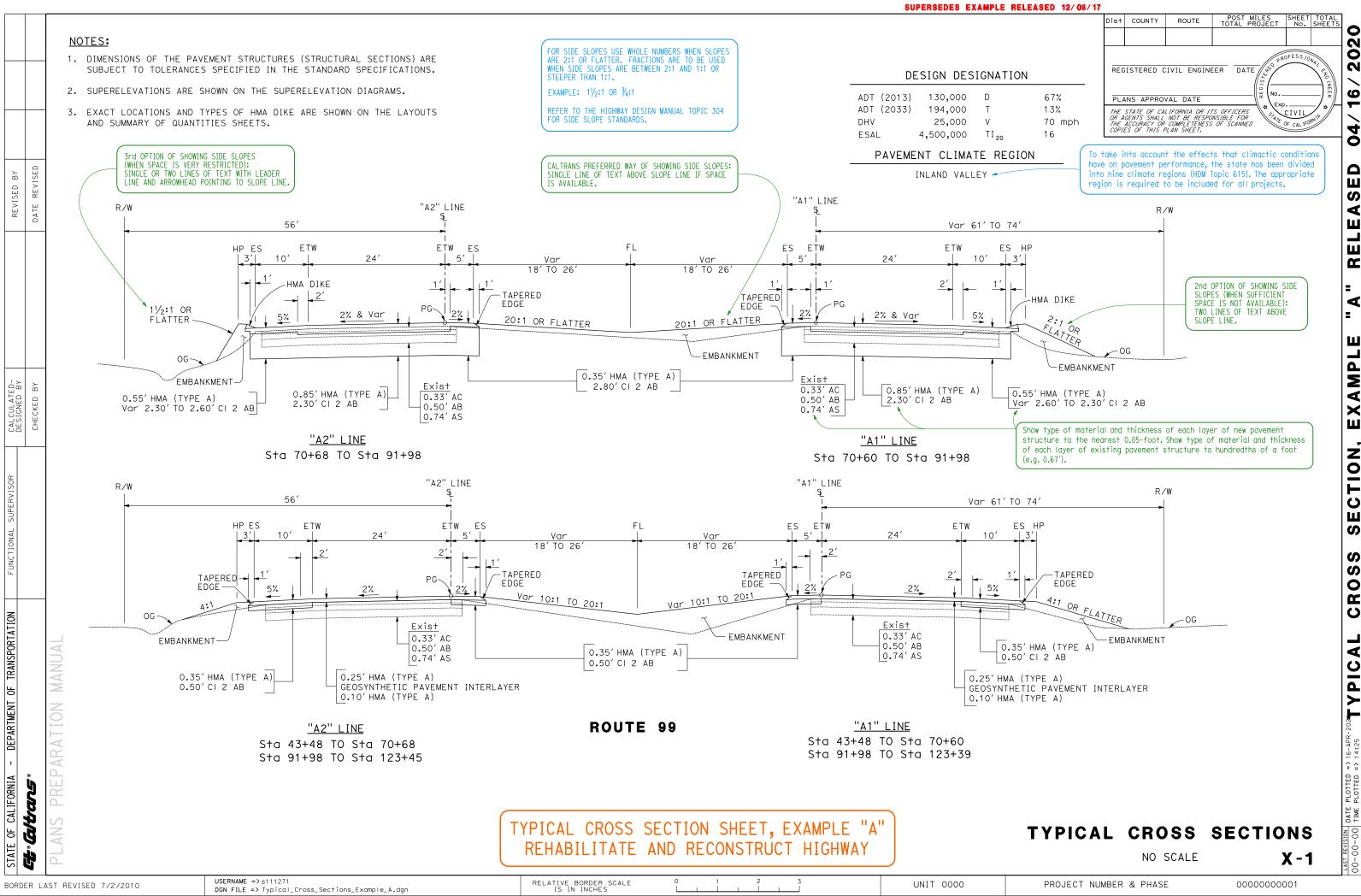
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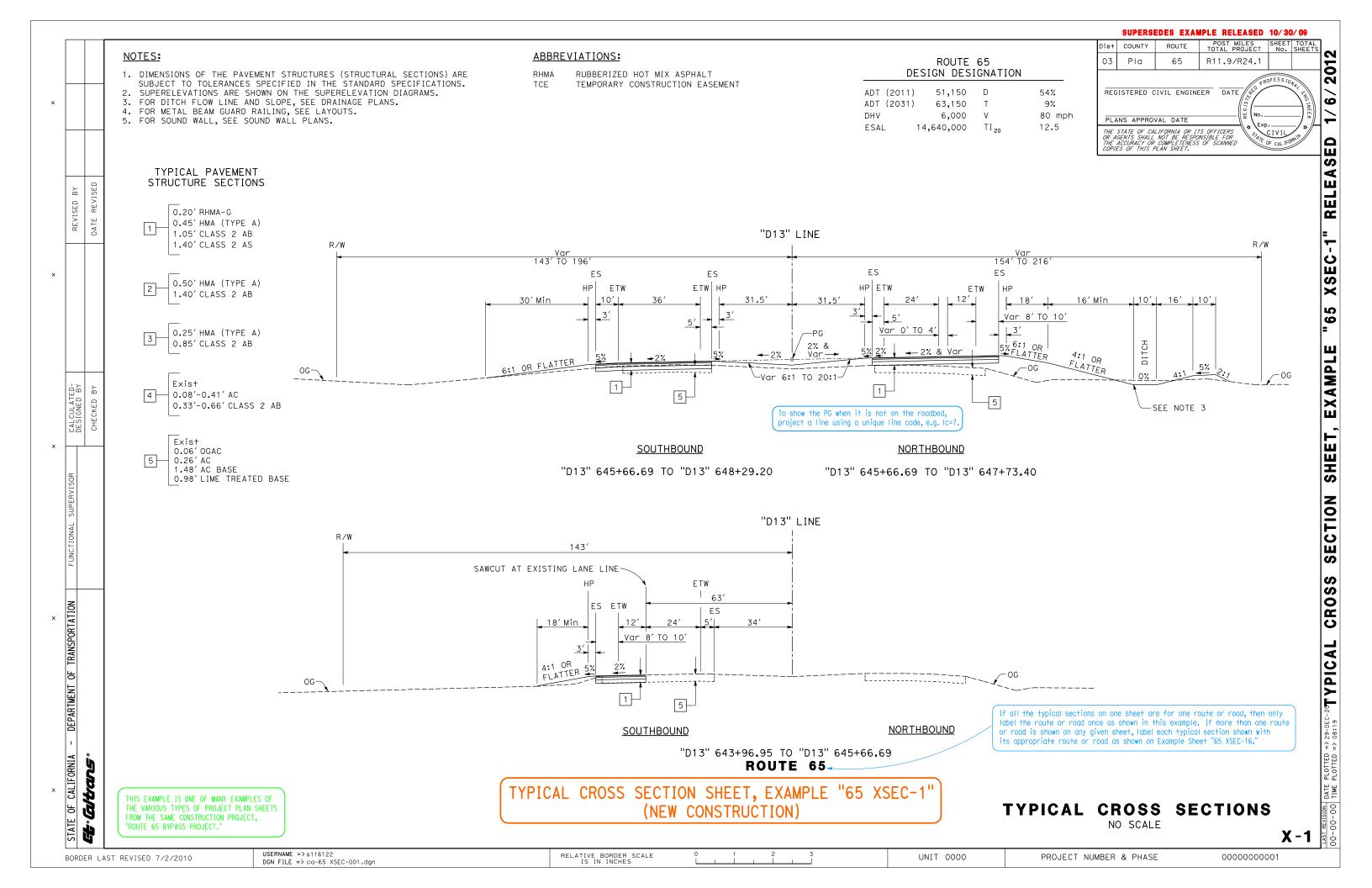
16-14: <u>^</u>

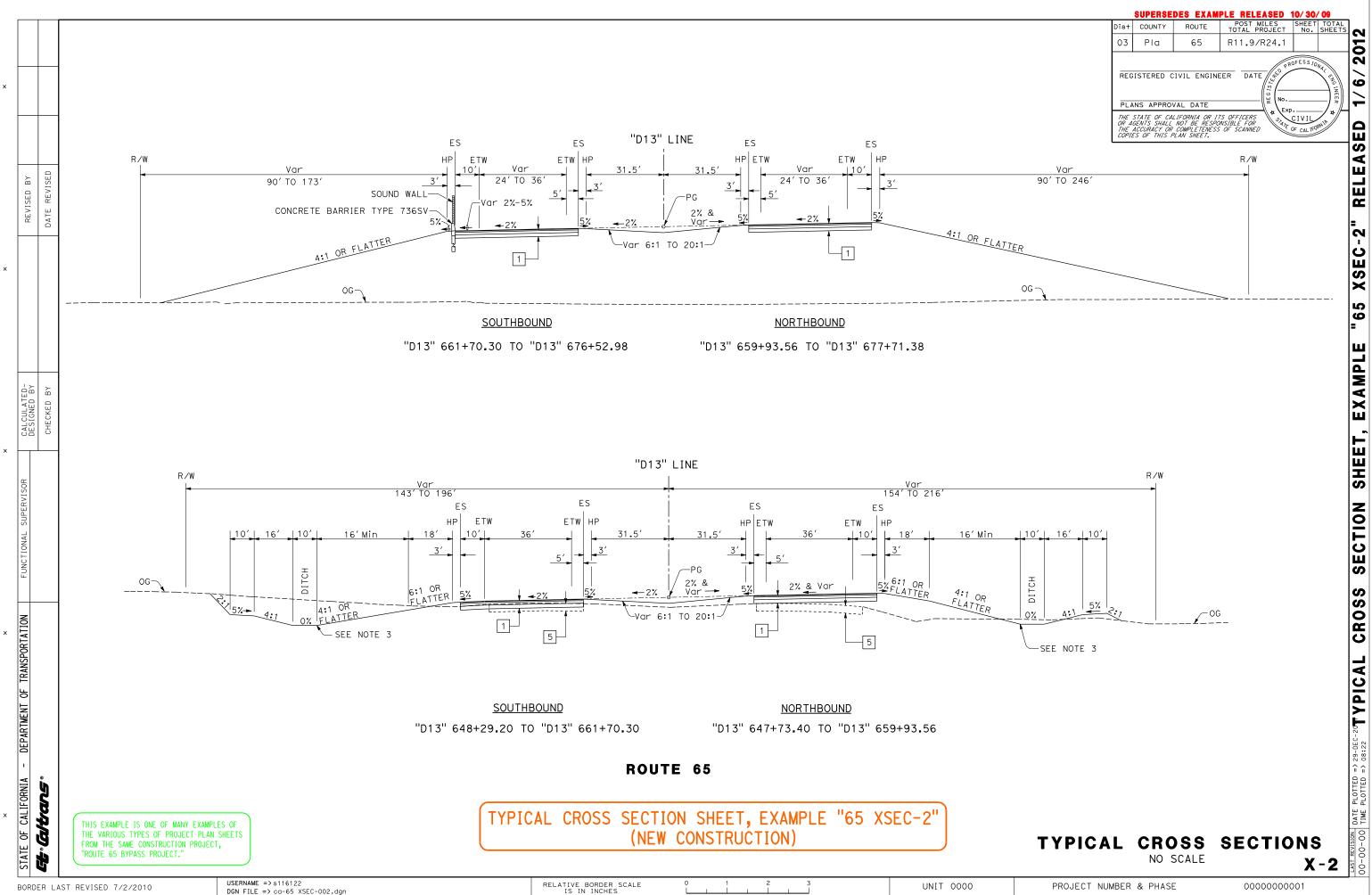
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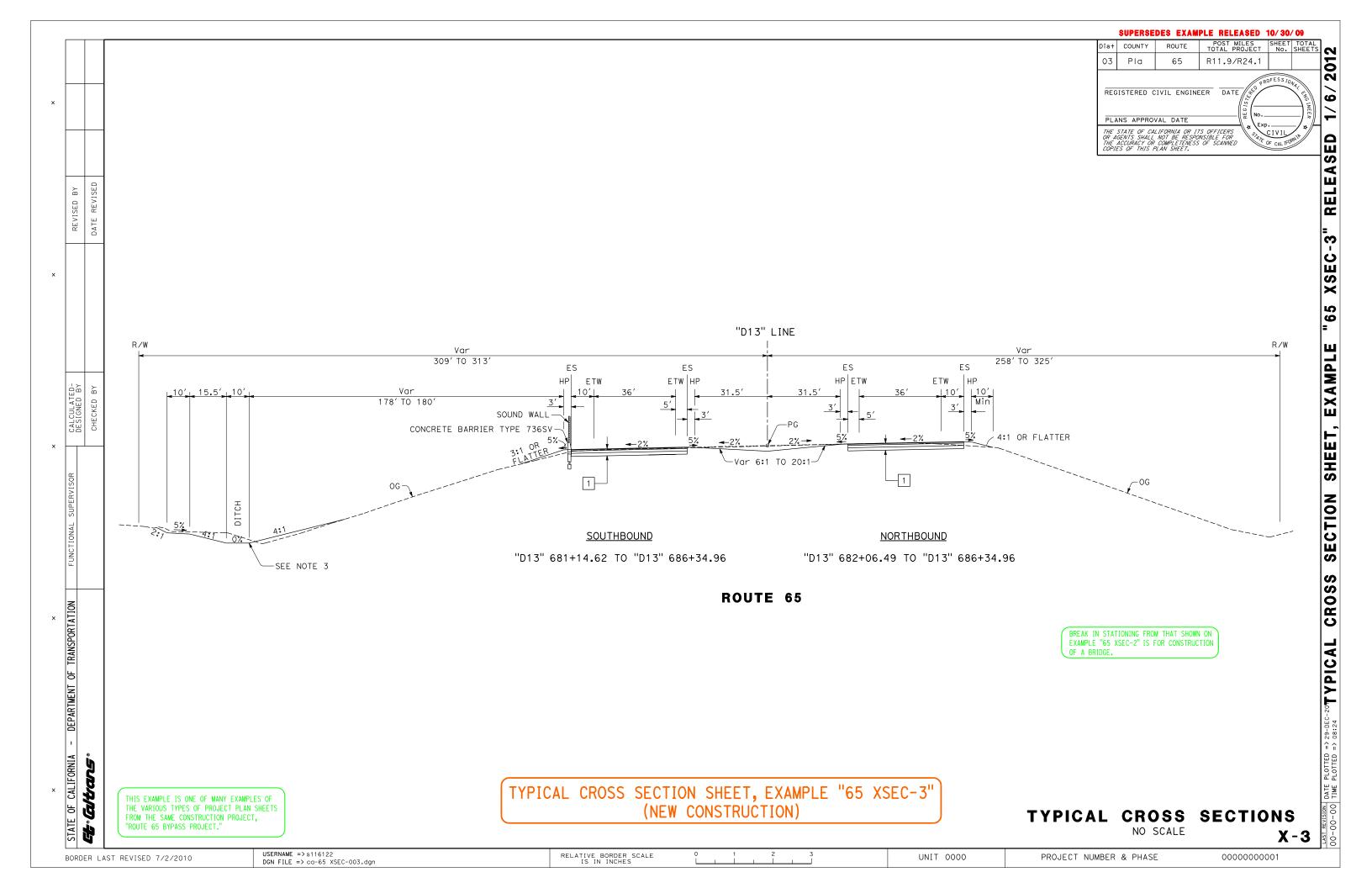
DATE TIME F

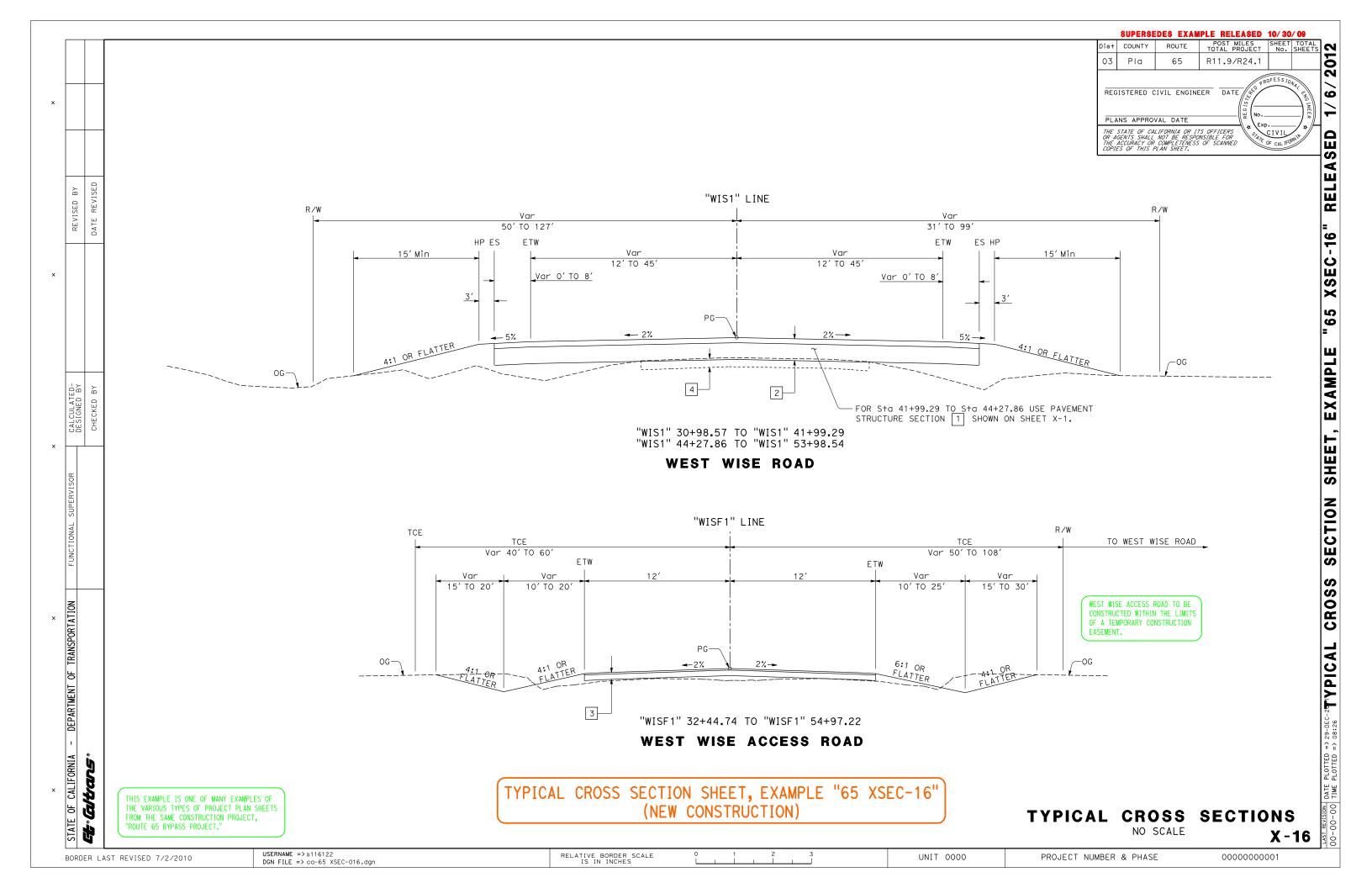
LAST REVISION 00-00

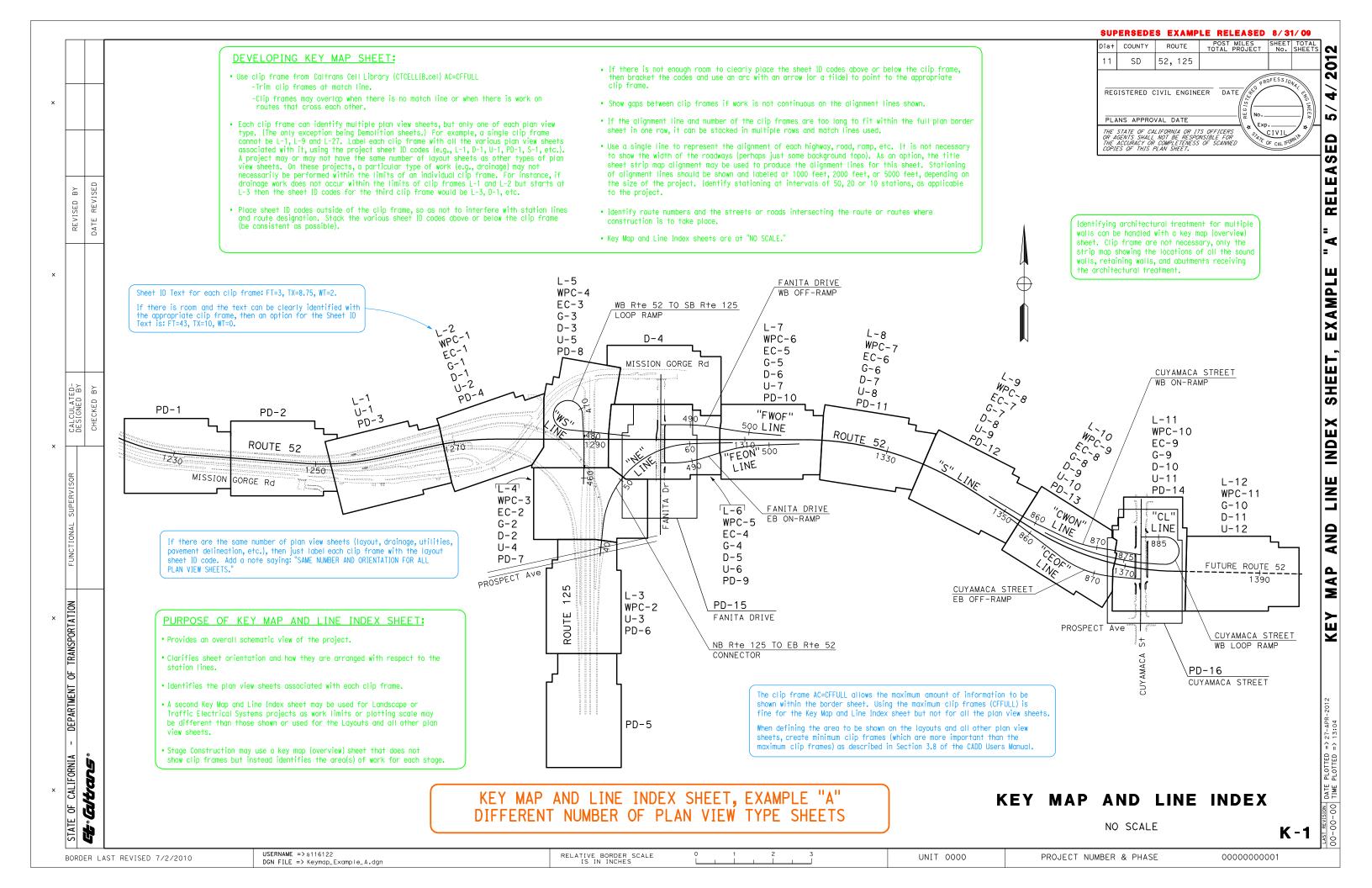


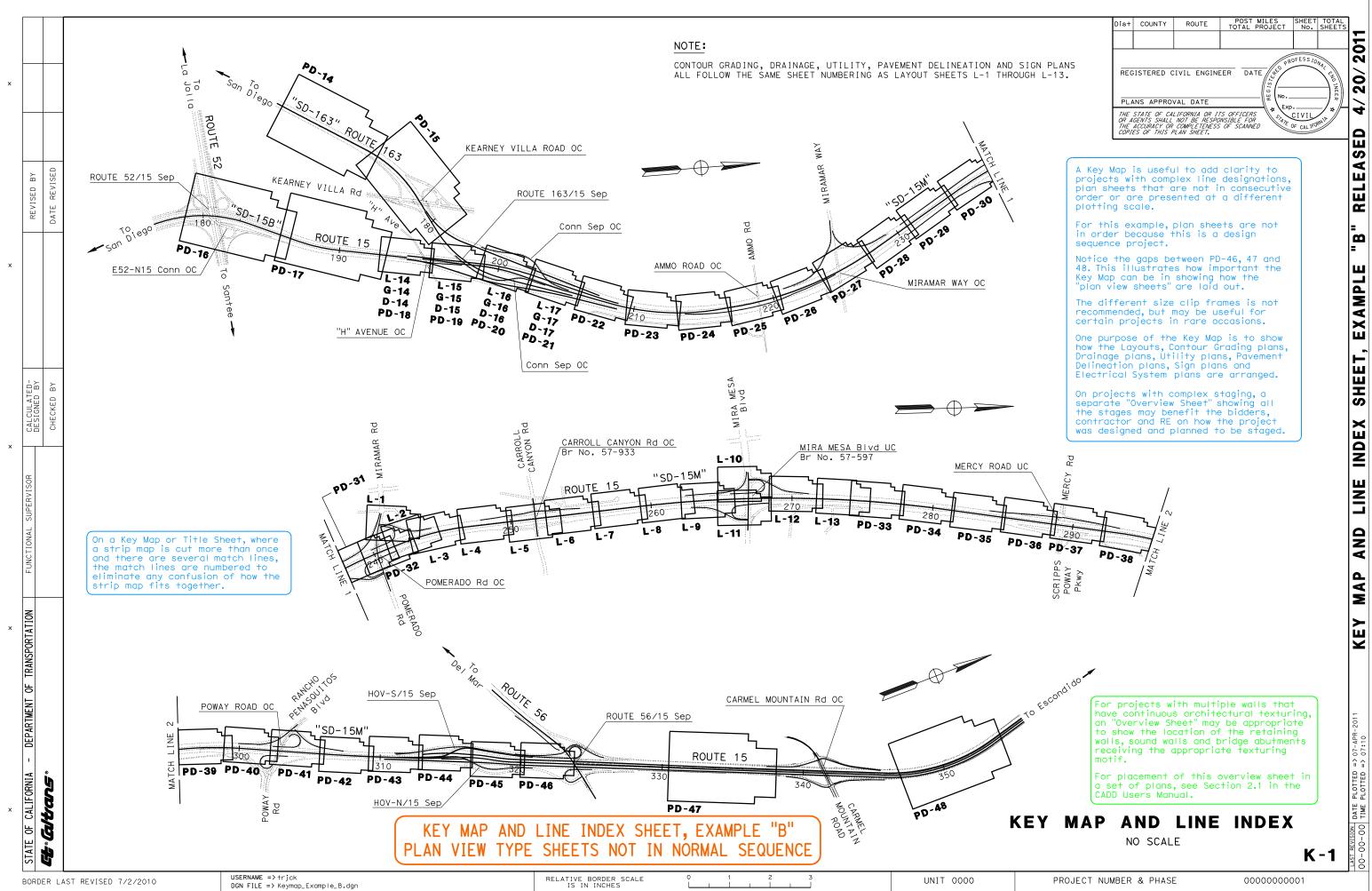


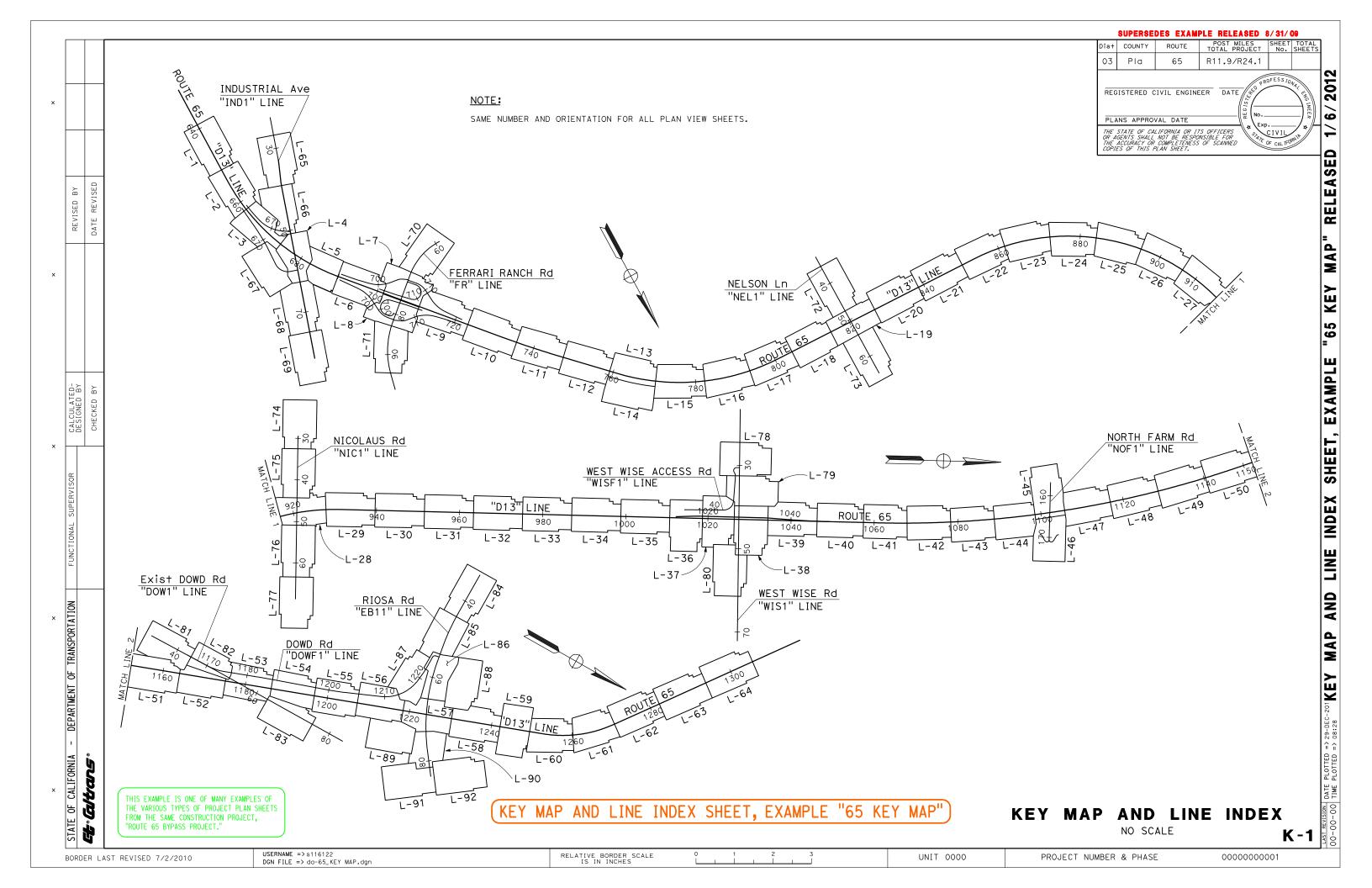


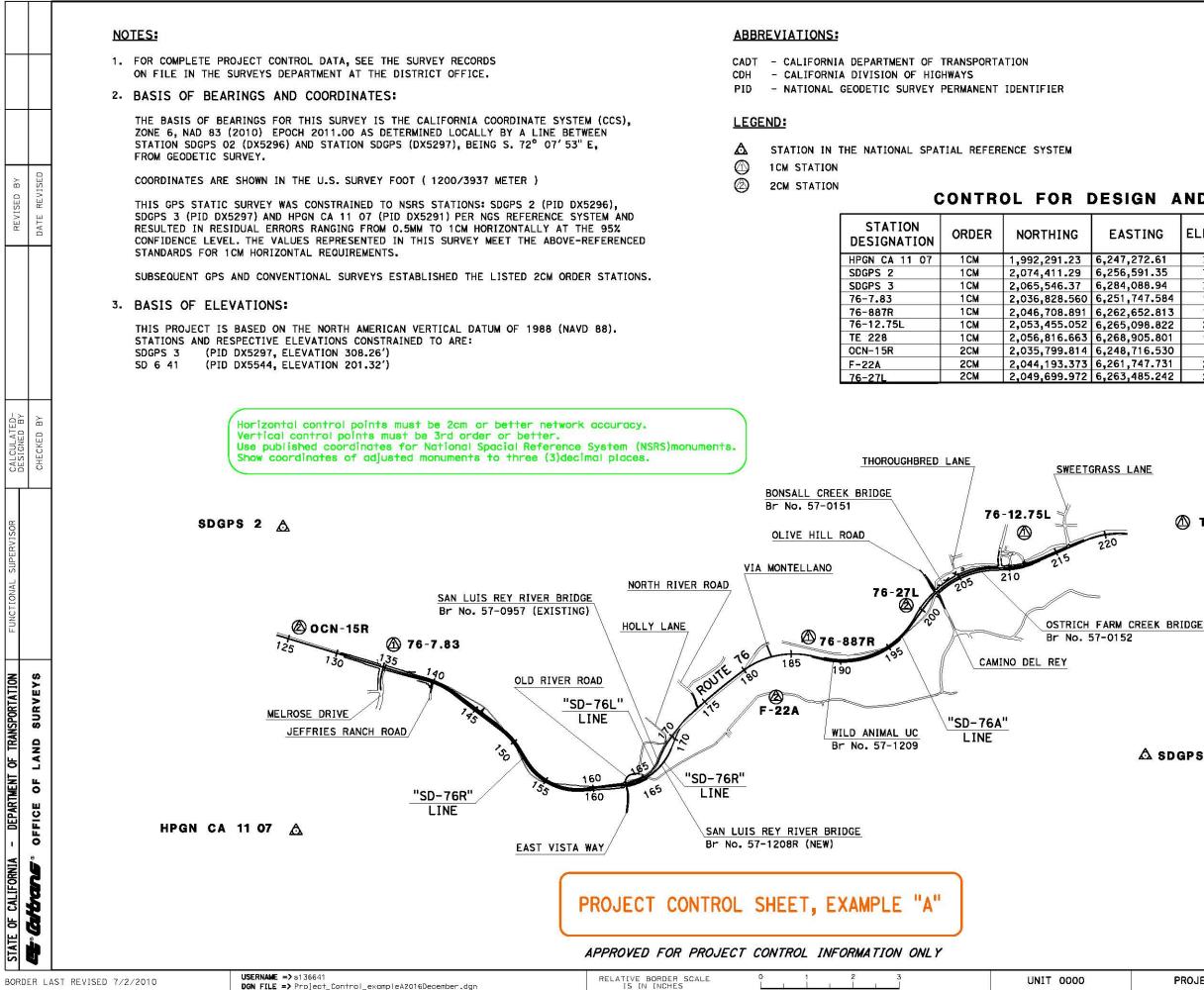












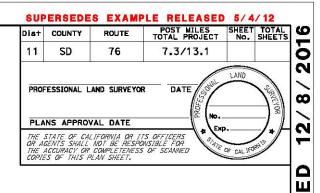
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CONTROL FOR DESIGN AND CONSTRUCTION

TING	ELEVATION	DESCRIPTION
272.61	311.28	21/2" CADT ALUMINUM DISK
591.35	717.18	SD COUNTY 21/2" ALUMINUM DISK
088.94	308.26	21/4" CADT DISK
747.584	154.12	21/4" CADT DISK
552.813	178.55	21/4" CADT DISK
098.822	273.92	21/4" CADT DISK
905.801	197.79	SD COUNTY BM DISK
716.530	NONE	21/4" CDH DISK
747.731	243.58	21/4" CDH DISK
485.242	266.52	21/4" CADT DISK

(A) TE 228



∆ SDGPS 3

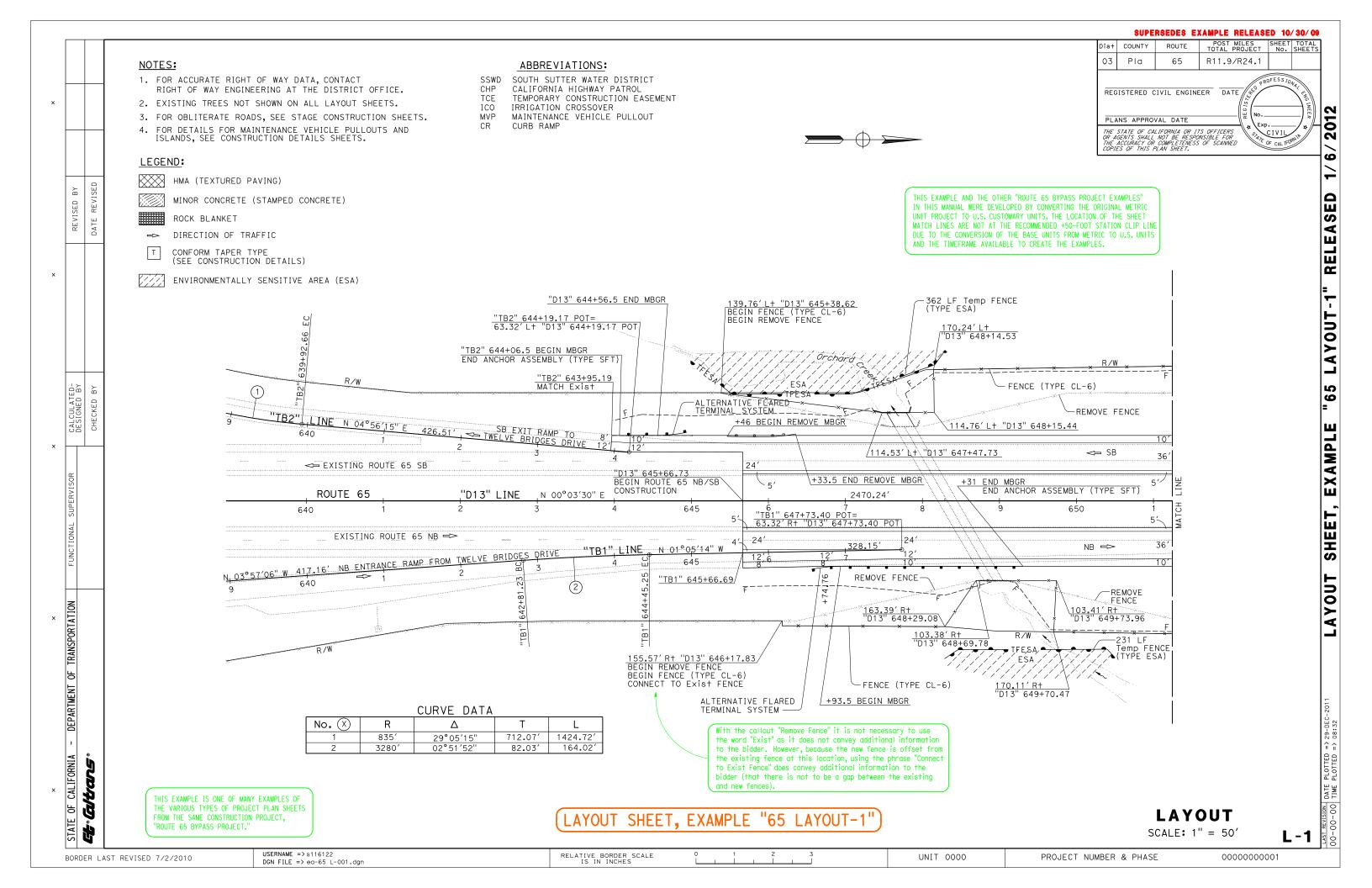
PROJECT CONTROL

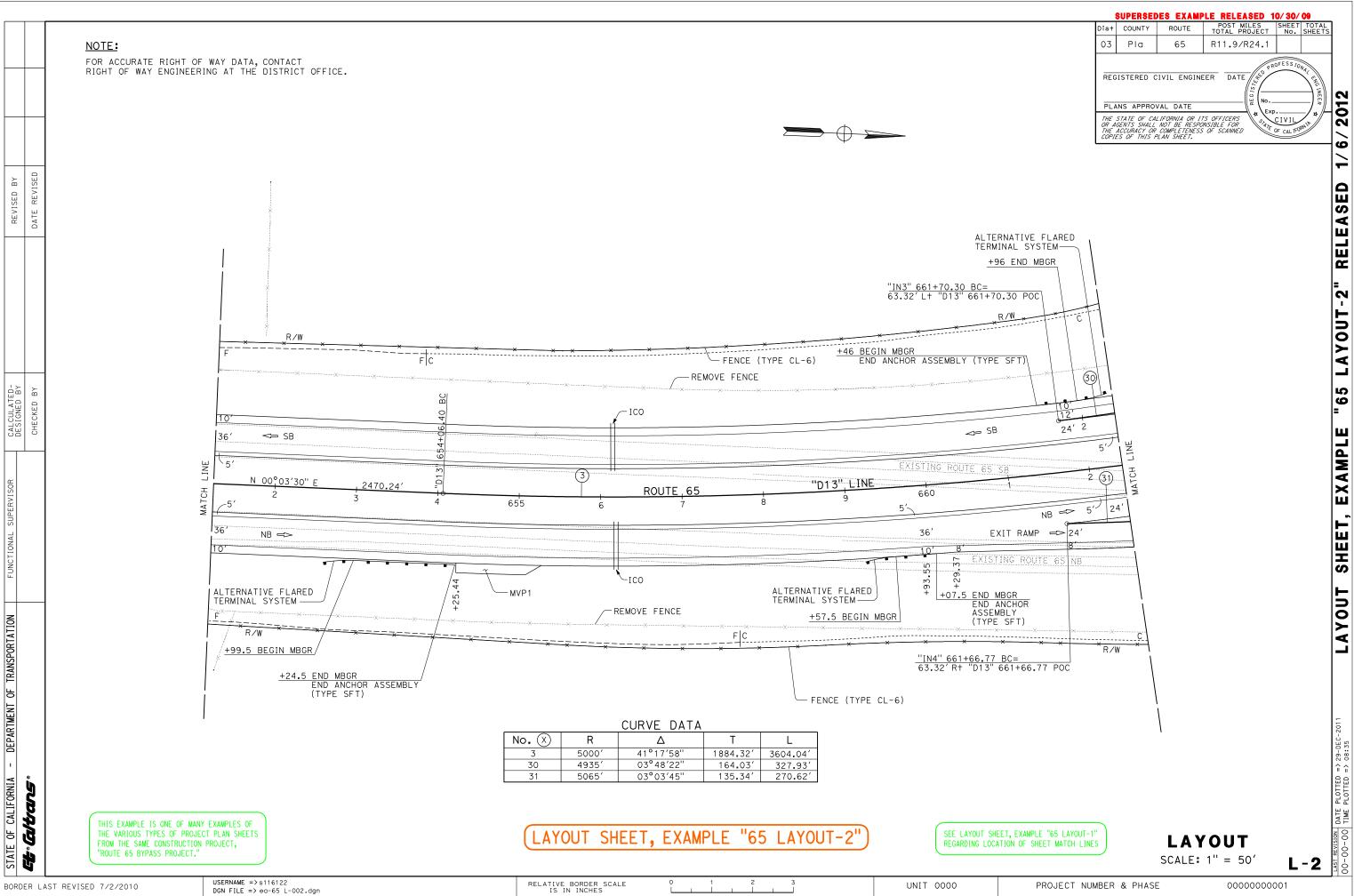
NO SCALE

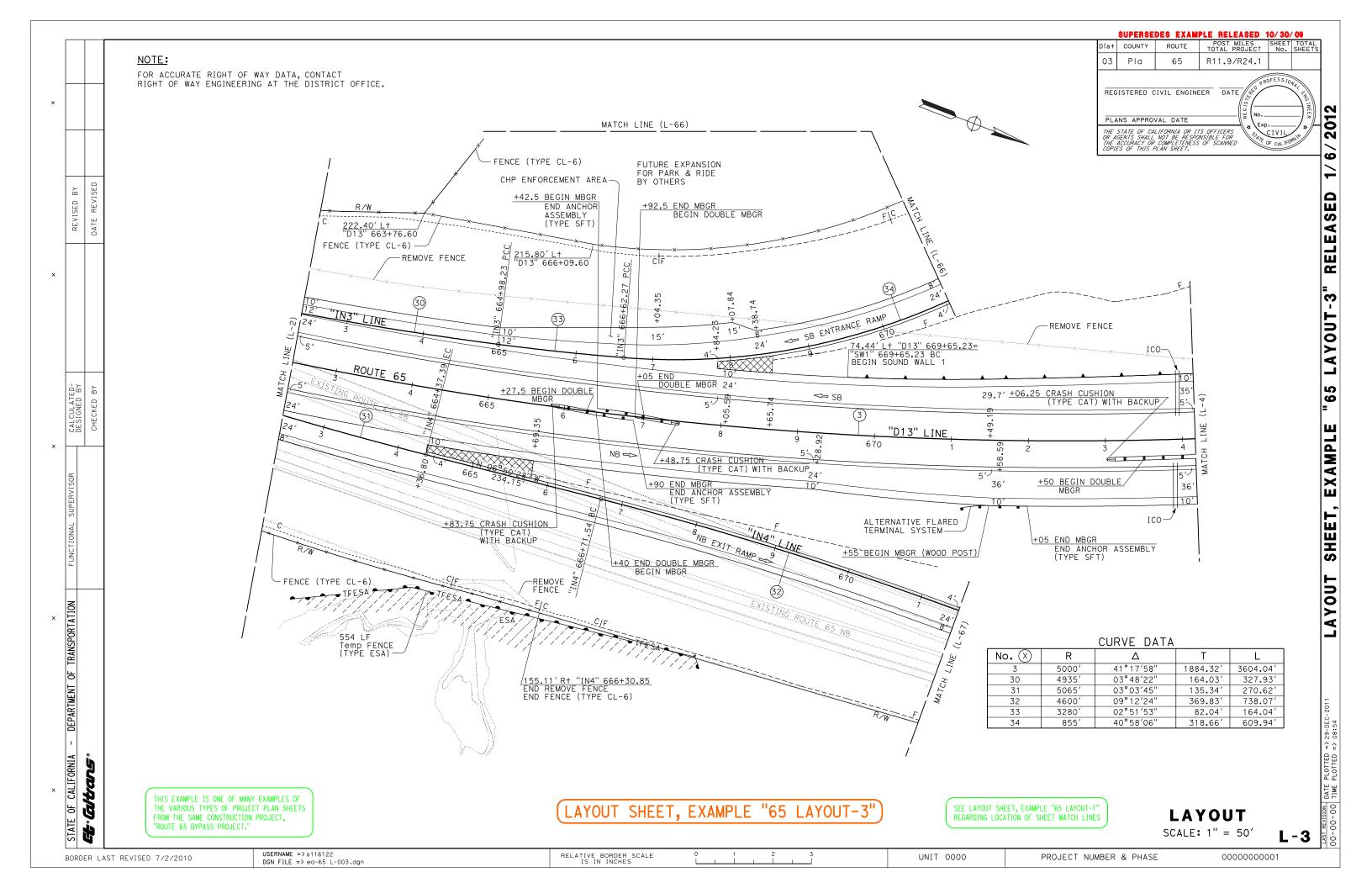
PROJECT NUMBER & PHASE

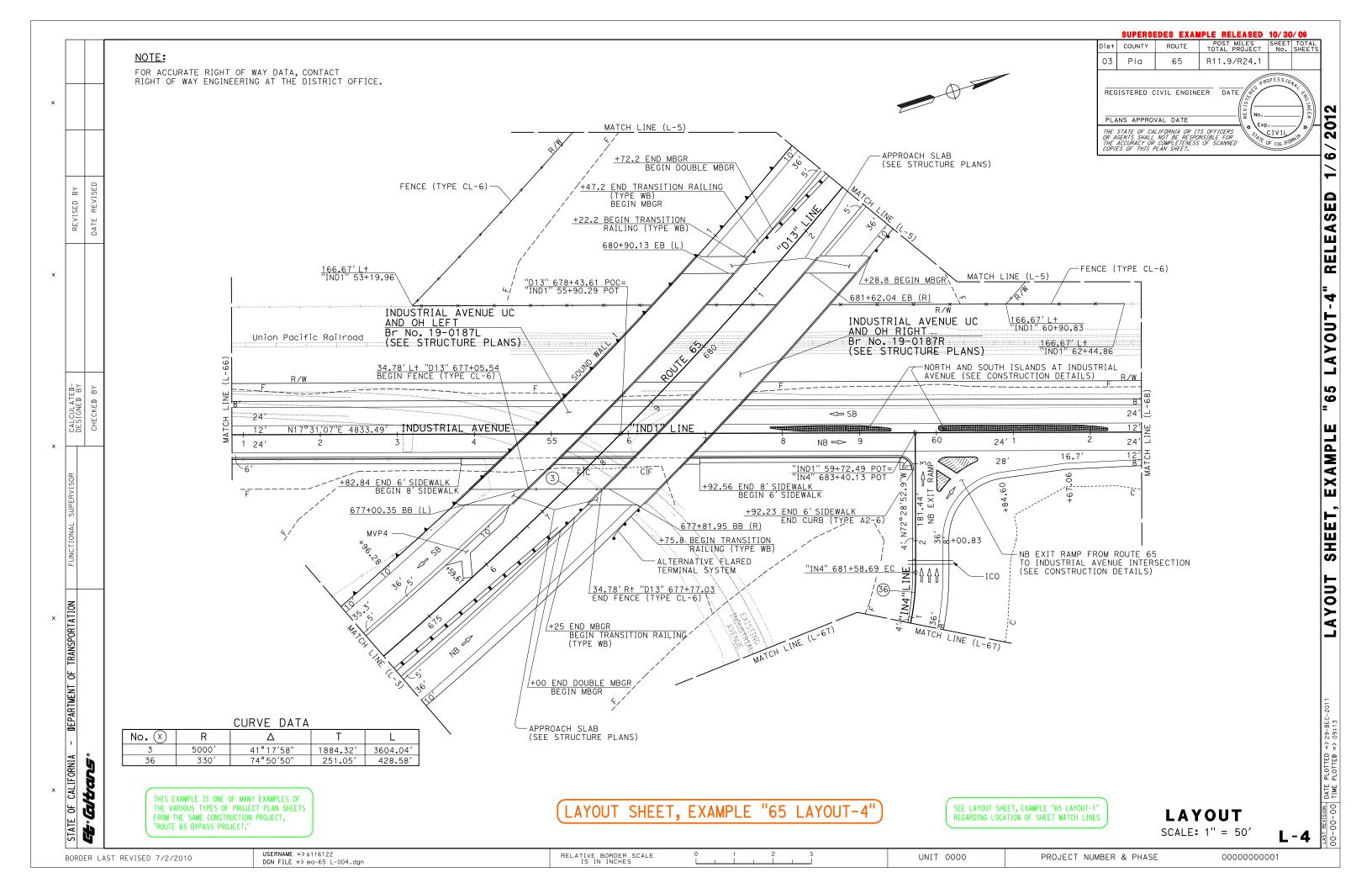
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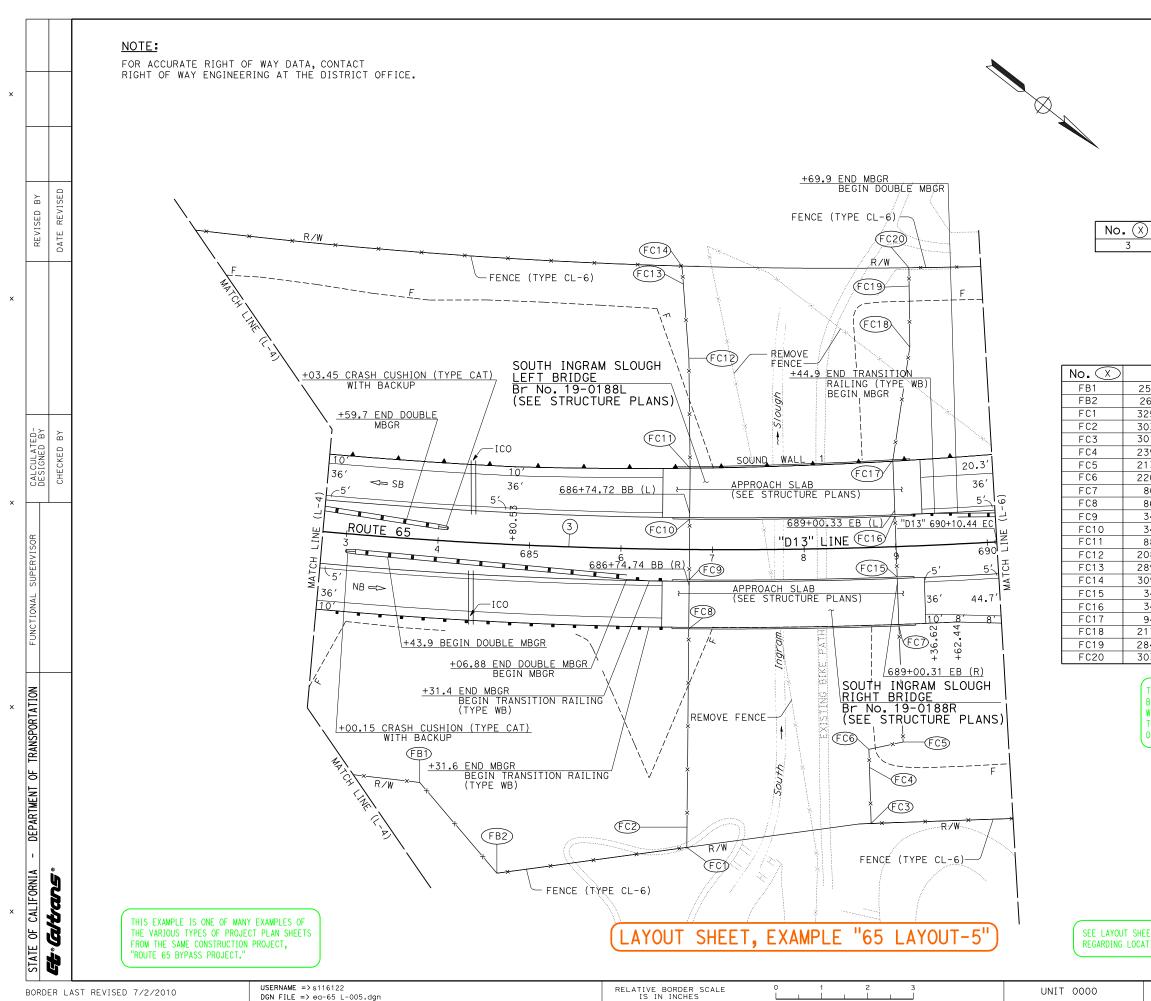
PC-1

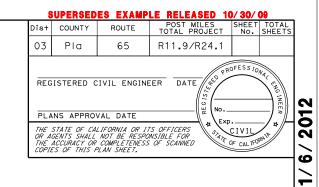












LAYOUT-5" RELEASED

SHEET, EXAMPLE

LAYOUT

PLOTTED => 29-DE(PLOTTED => 09:15

DATE

Ion 00

L-5

		CURVE DATA		
)	R	Δ	Т	L
	5000'	41°17′58''	1884.32′	3604.04′

FENCE AND GATES

LOCATION	NOTE
50.56′R+ "IND1" 61+64.55	FENCE
263.71′R+ "IND1" 62+93.91	FENCE (TYPE CL-6)
25.20'R+ "D13" 686+74.73	FENCE (TYPE CL-6)
03.02′R+ "D13" 686+74.73	10' CHAIN LINK GATE
01.15′R+ "D13" 688+64.26	FENCE (TYPE CL-6)
39.93′R+ "D13" 688+64.26	10' CHAIN LINK GATE
13.35′R+ "D13" 689+00.32	FENCE (TYPE CL-6)
20.24′R+ "D13" 688+64.26	FENCE (TYPE CL-6)
86.58′R+ "D13" 689+00.32	BEGIN FENCE (TYPE CL-6)
86.58′R+ "D13" 686+74.73	END FENCE (TYPE CL-6)
34.78′R+ "D13" 686+74.73	BEGIN FENCE (TYPE CL-6)
34.78′L+ "D13" 686+74.73	END FENCE (TYPE CL-6)
88.81′L+ "D13" 686+74.73	END FENCE (TYPE CL-6)
08.92′L+ "D13" 686+72.17	FENCE (TYPE CL-6)
89.76′L† "D13" 686+64.92	10' CHAIN LINK GATE
09.35′L+ "D13" 686+63.11	FENCE (TYPE CL-6)
34.78′R+ "D13" 689+00.32	BEGIN FENCE (TYPE CL-6)
34.78′L+ "D13" 689+00.32	END FENCE (TYPE CL-6)
94.95′L+ "D13" 689+00.32	BEGIN FENCE (TYPE CL-6)
17.16′L+ "D13" 689+24.27	FENCE (TYPE CL-6)
84.05'L+ "D13" 689+26.40	10'CHAIN LINK GATE
03.74′L+ "D13" 689+27.06	FENCE (TYPE CL-6)

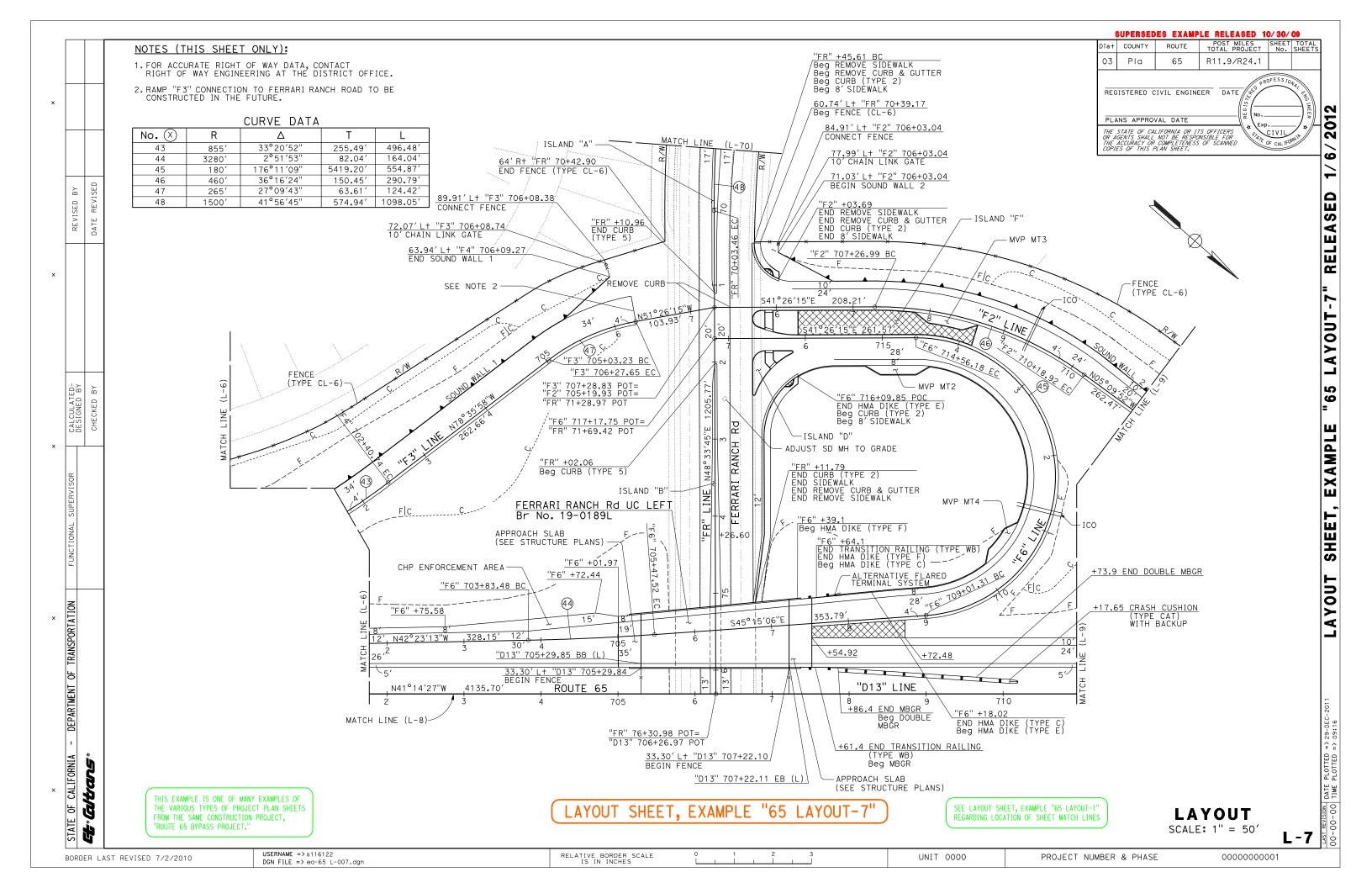
THIS METHOD OF IDENTIFYING FENCE LOCATIONS MAY BE USED WHERE SUFFICIENT SPACE IS NOT AVAILABLE WITHIN THE PLAN VIEW IMAGE AND THE ADDITION OF THIS INFORMATION WITHIN THE PLAN VIEW IMAGE WOULD OBSCURE MORE SIGNIFICANT DESIGN INFORMATION.

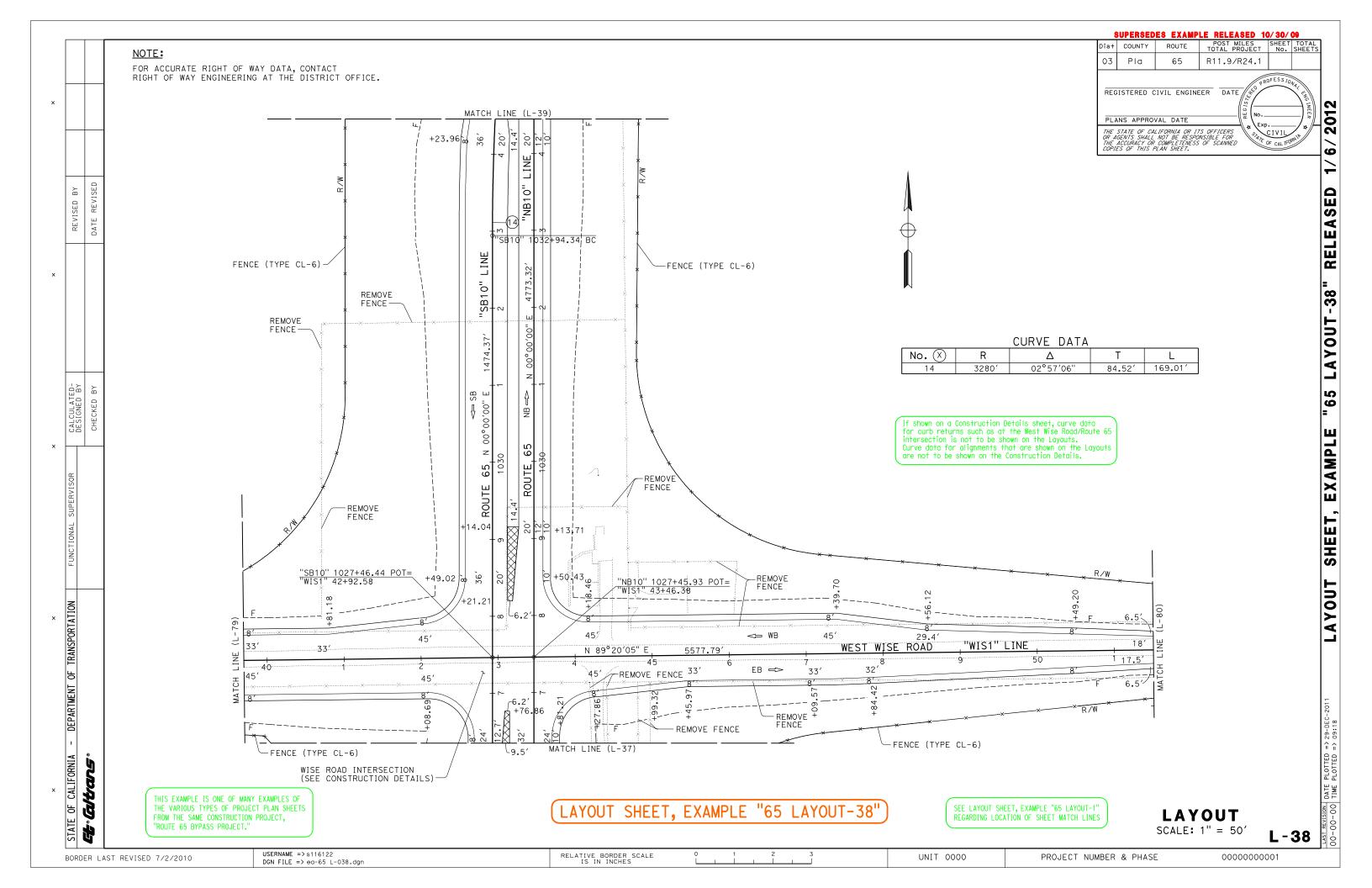
SEE LAYOUT SHEET, EXAMPLE "65 LAYOUT-1" REGARDING LOCATION OF SHEET MATCH LINES

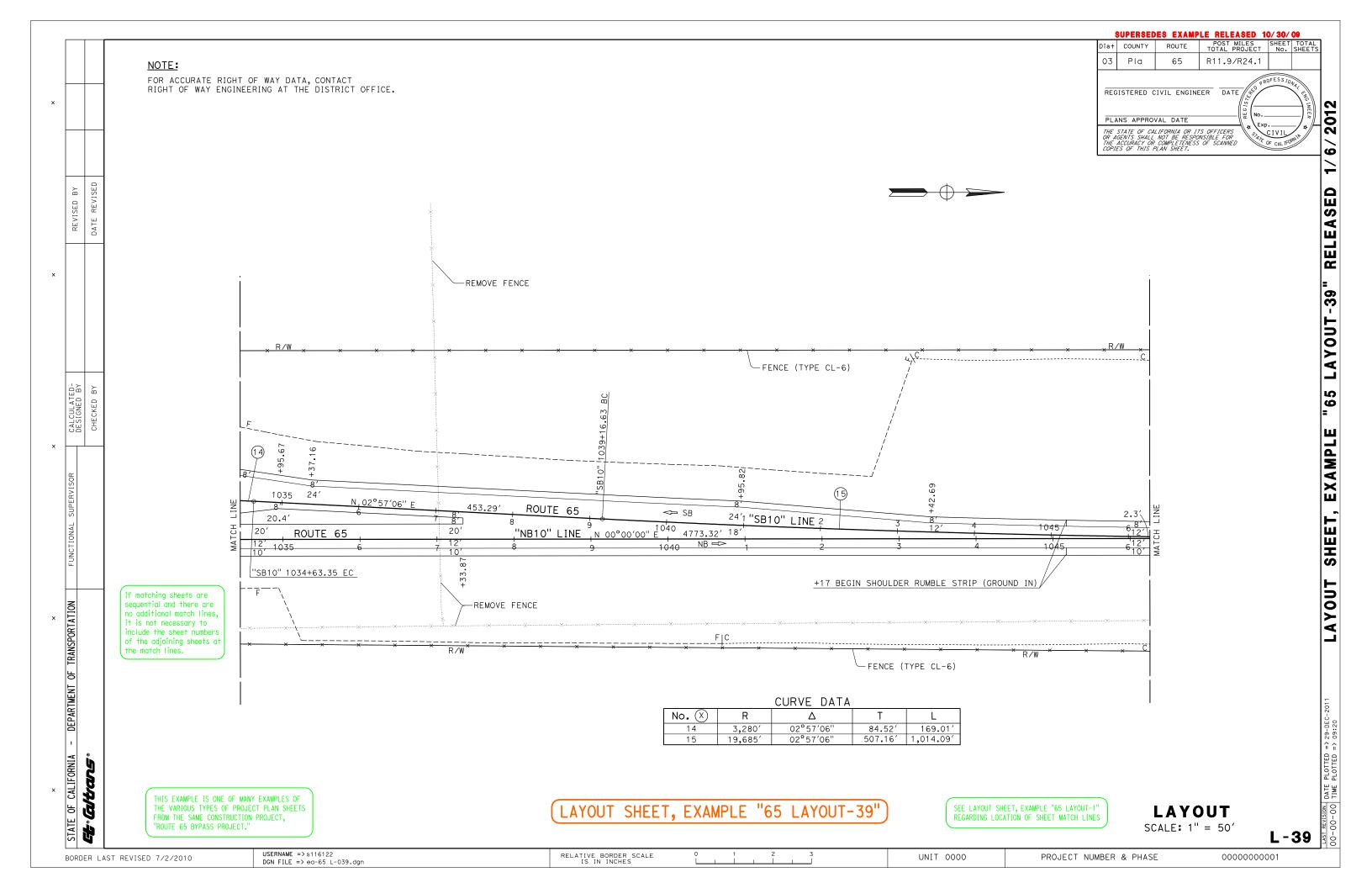
LAYOUT SCALE: 1" = 50'

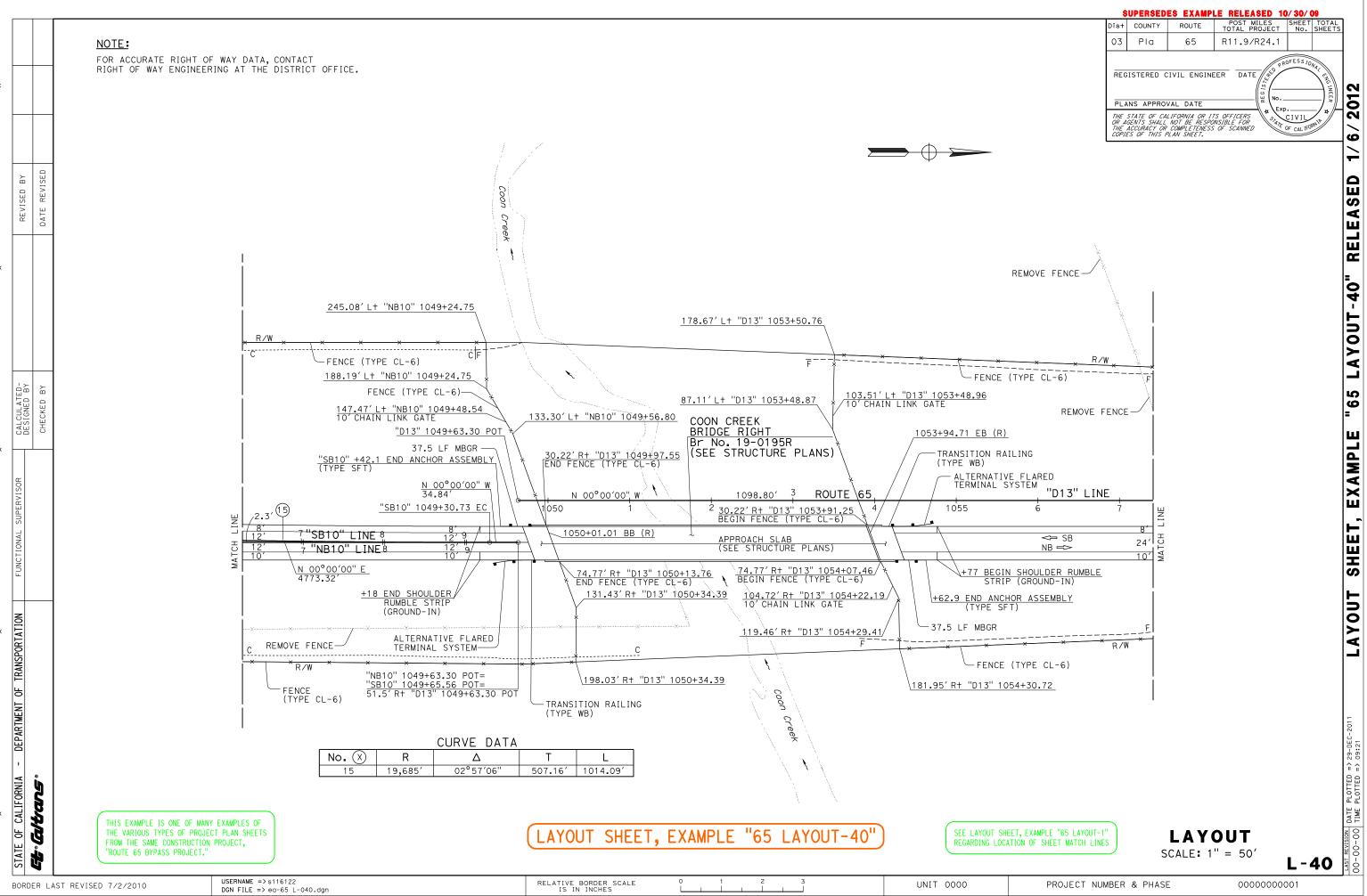
1 - 30

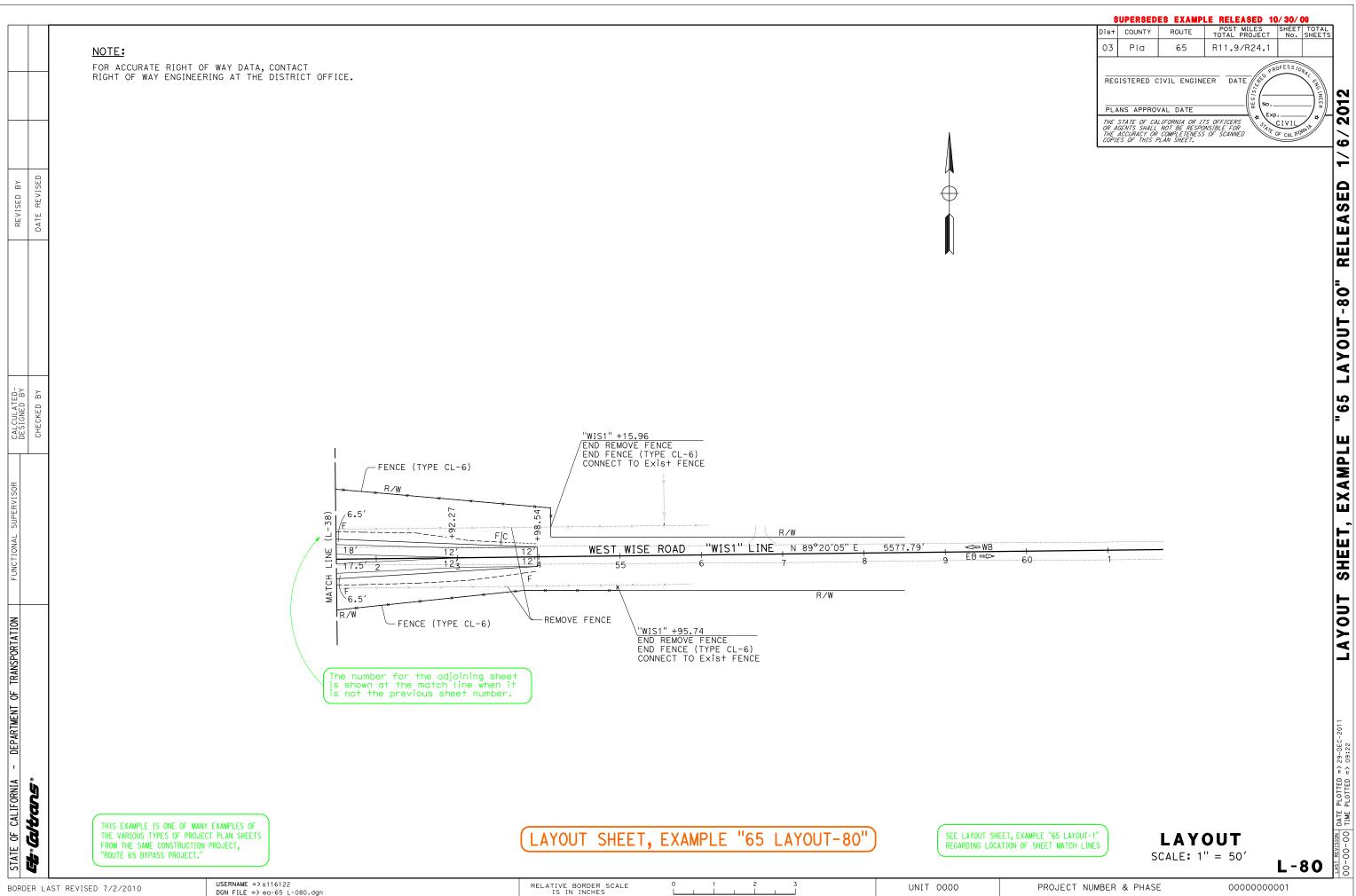
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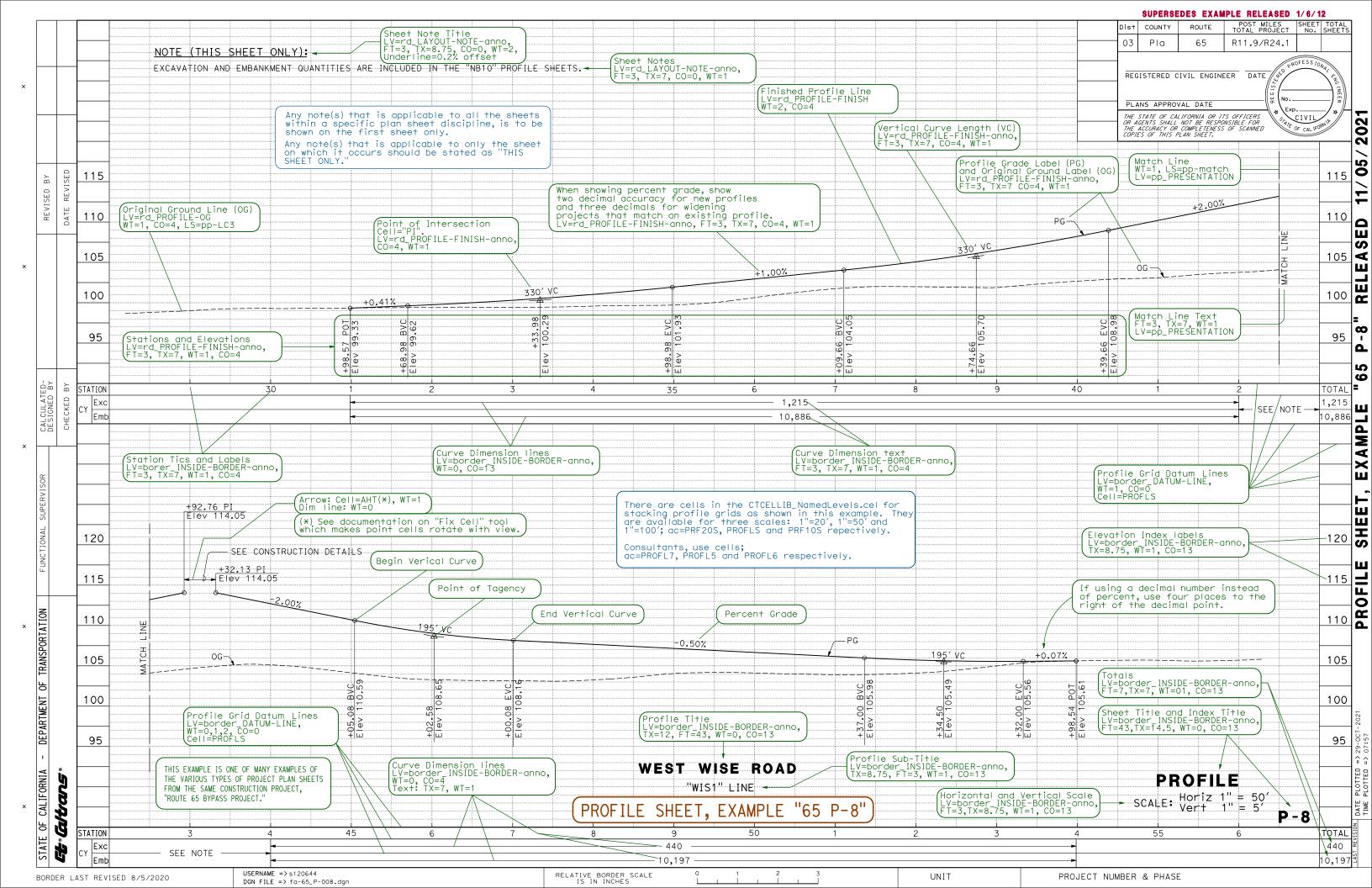


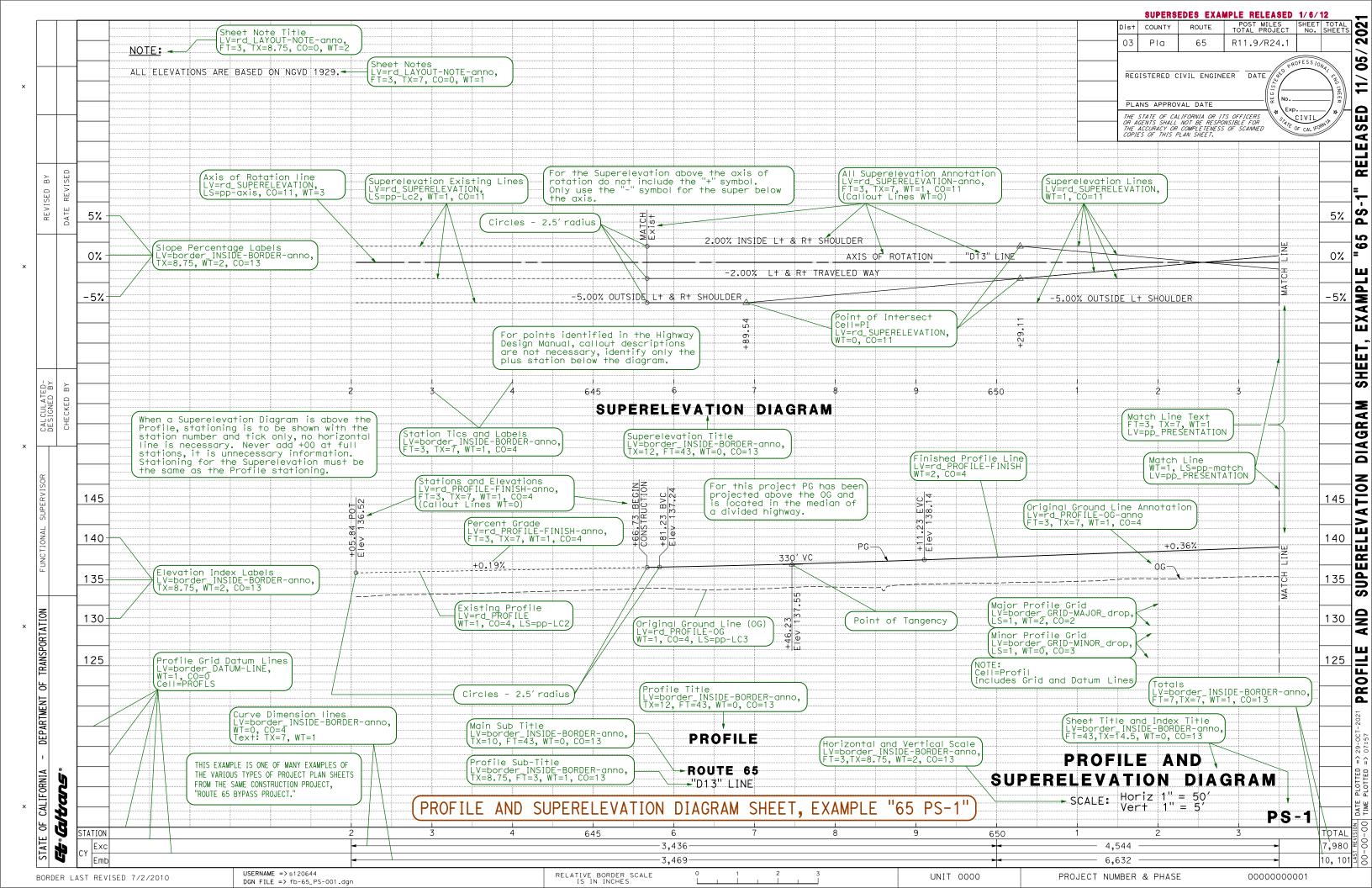


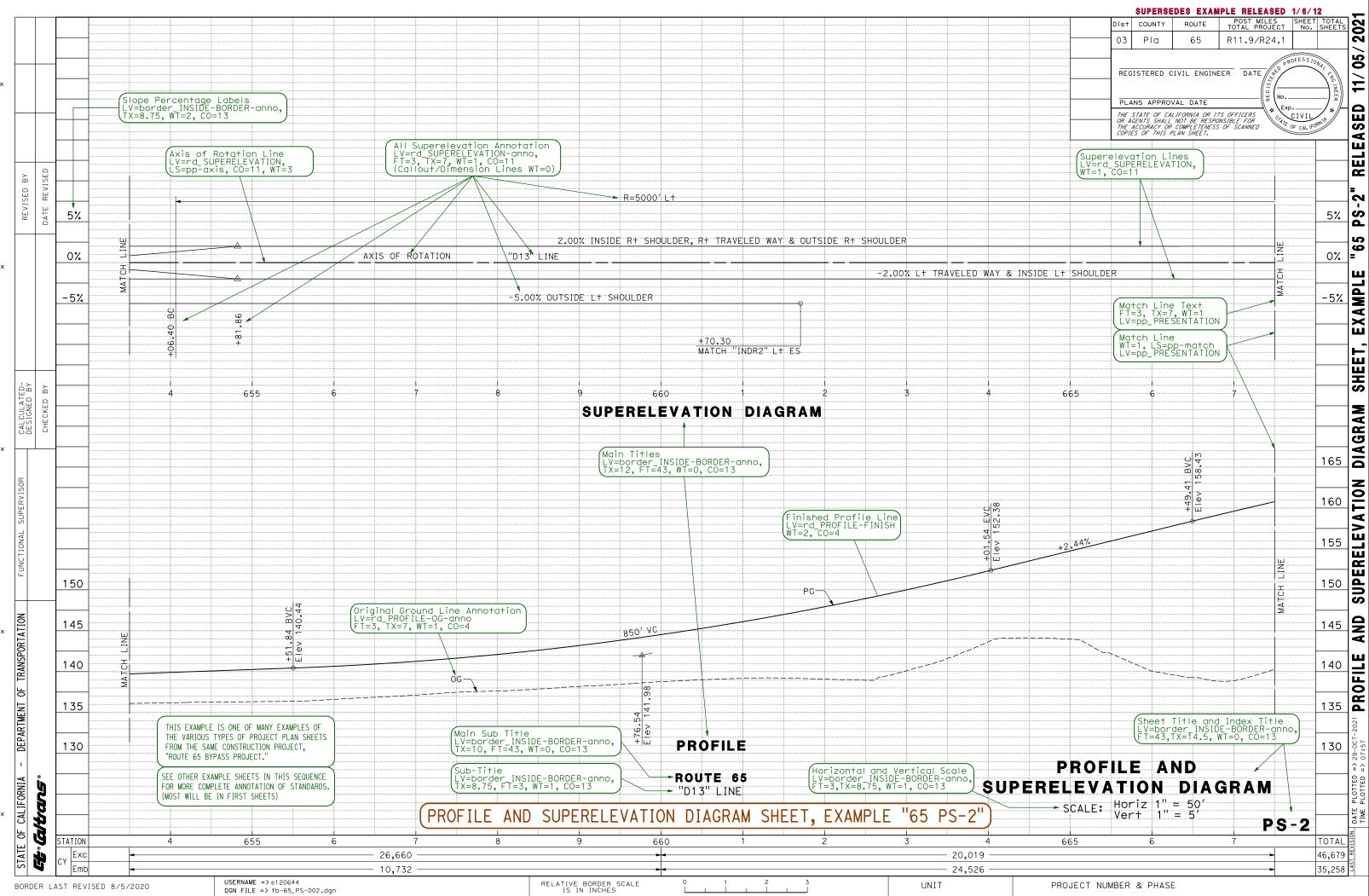


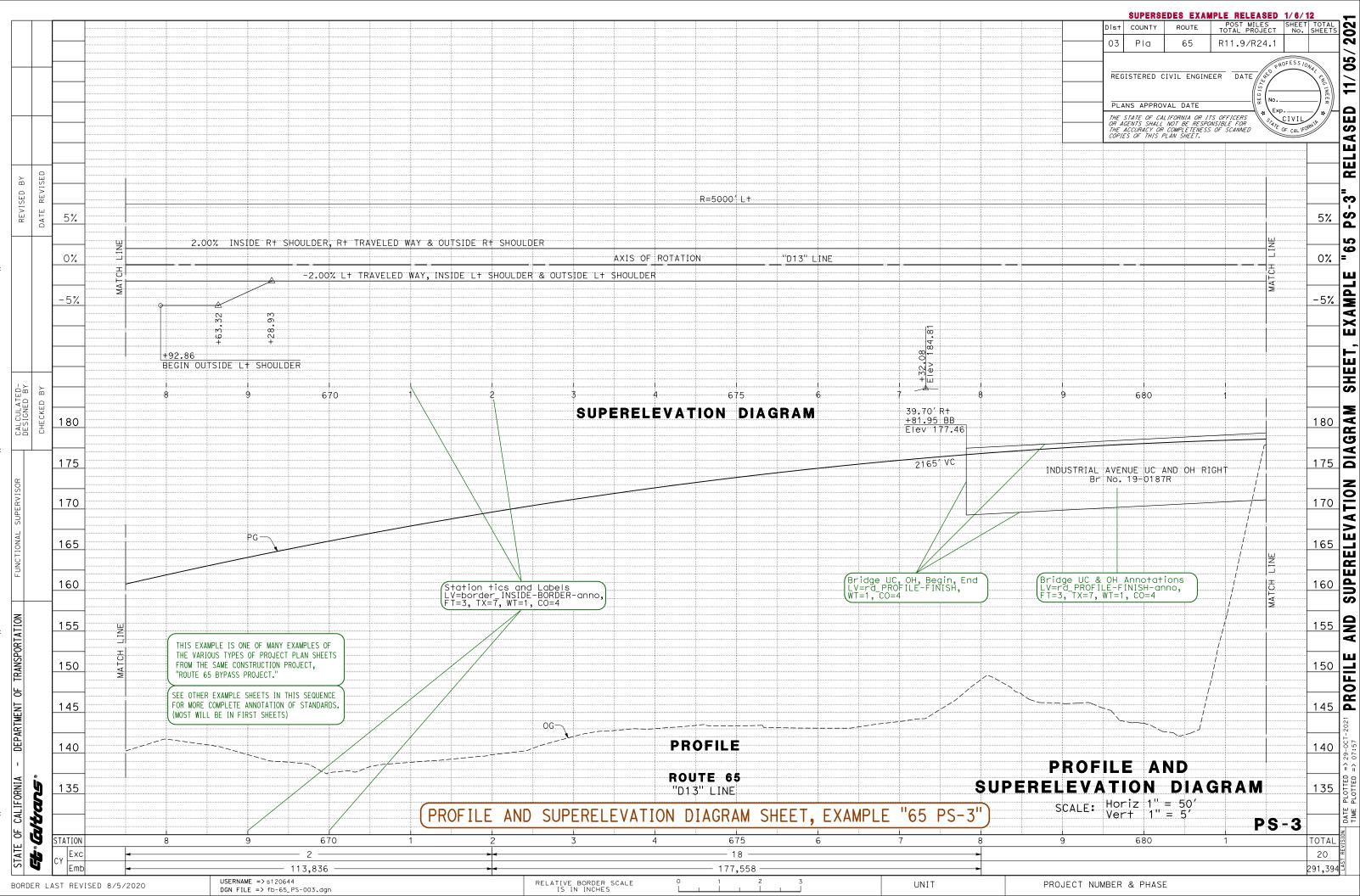
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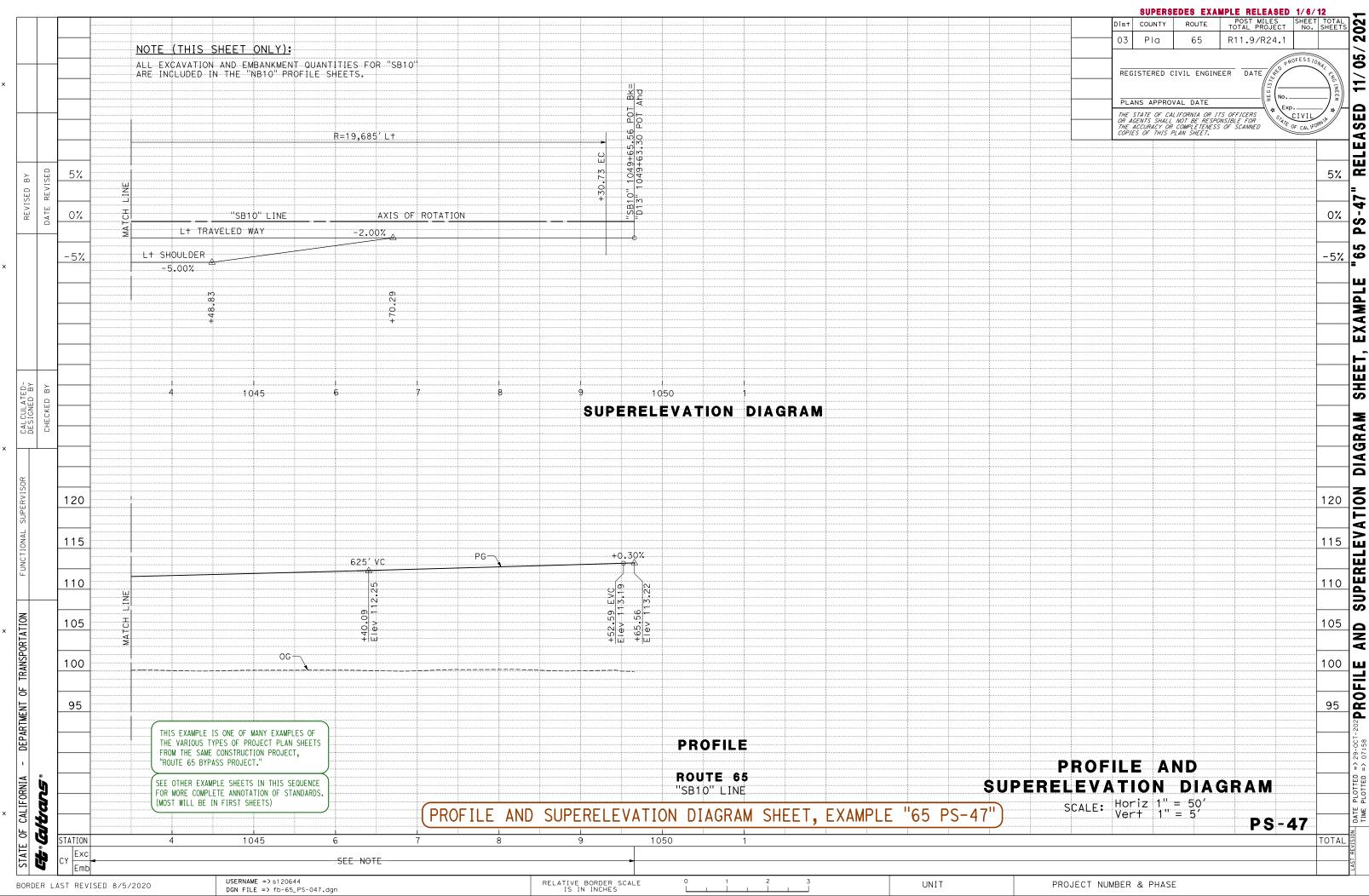




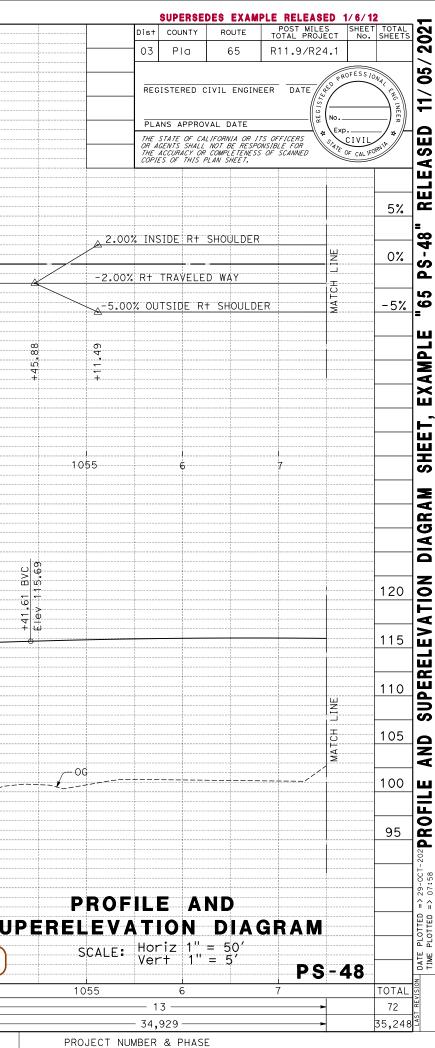


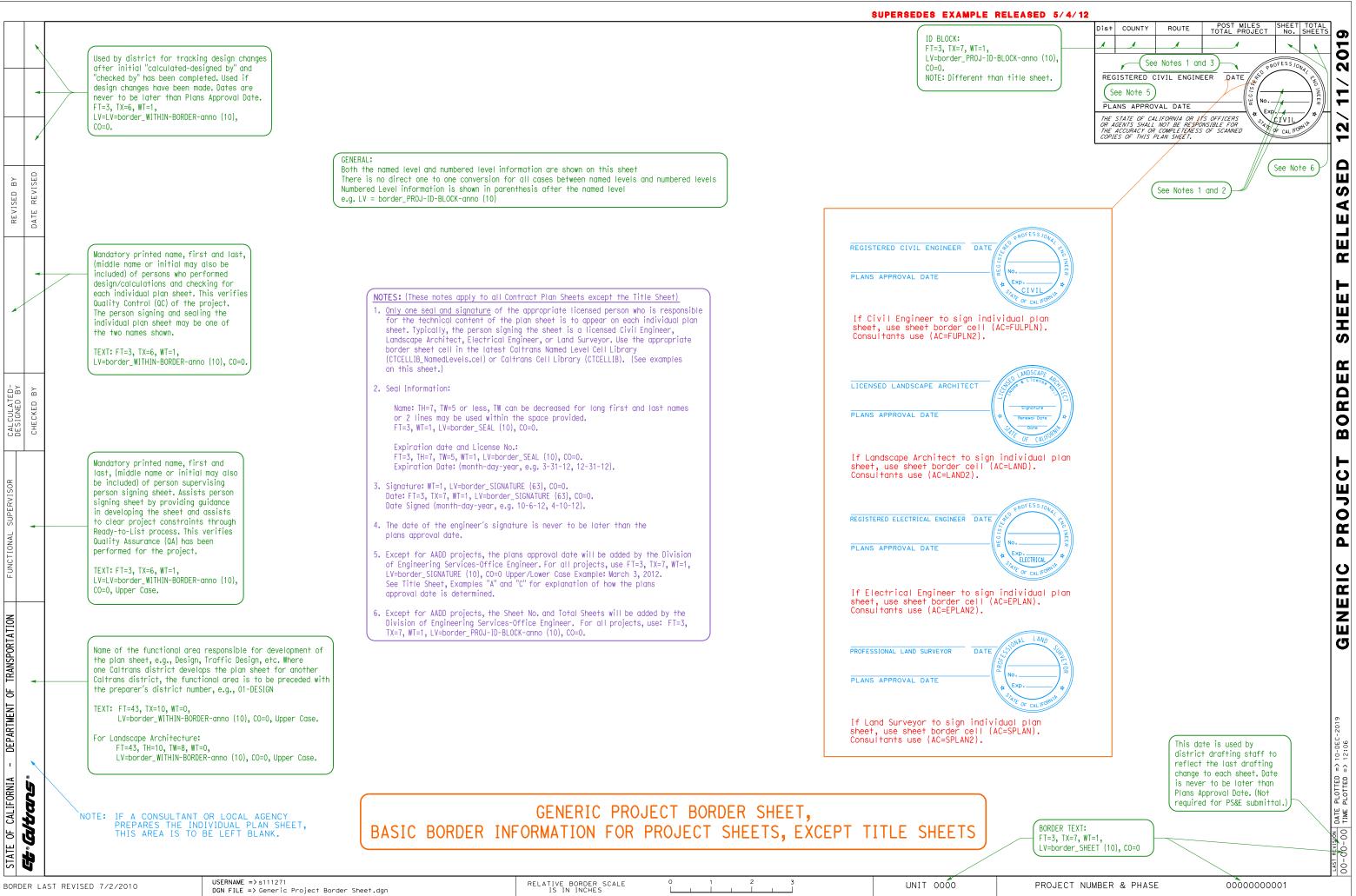


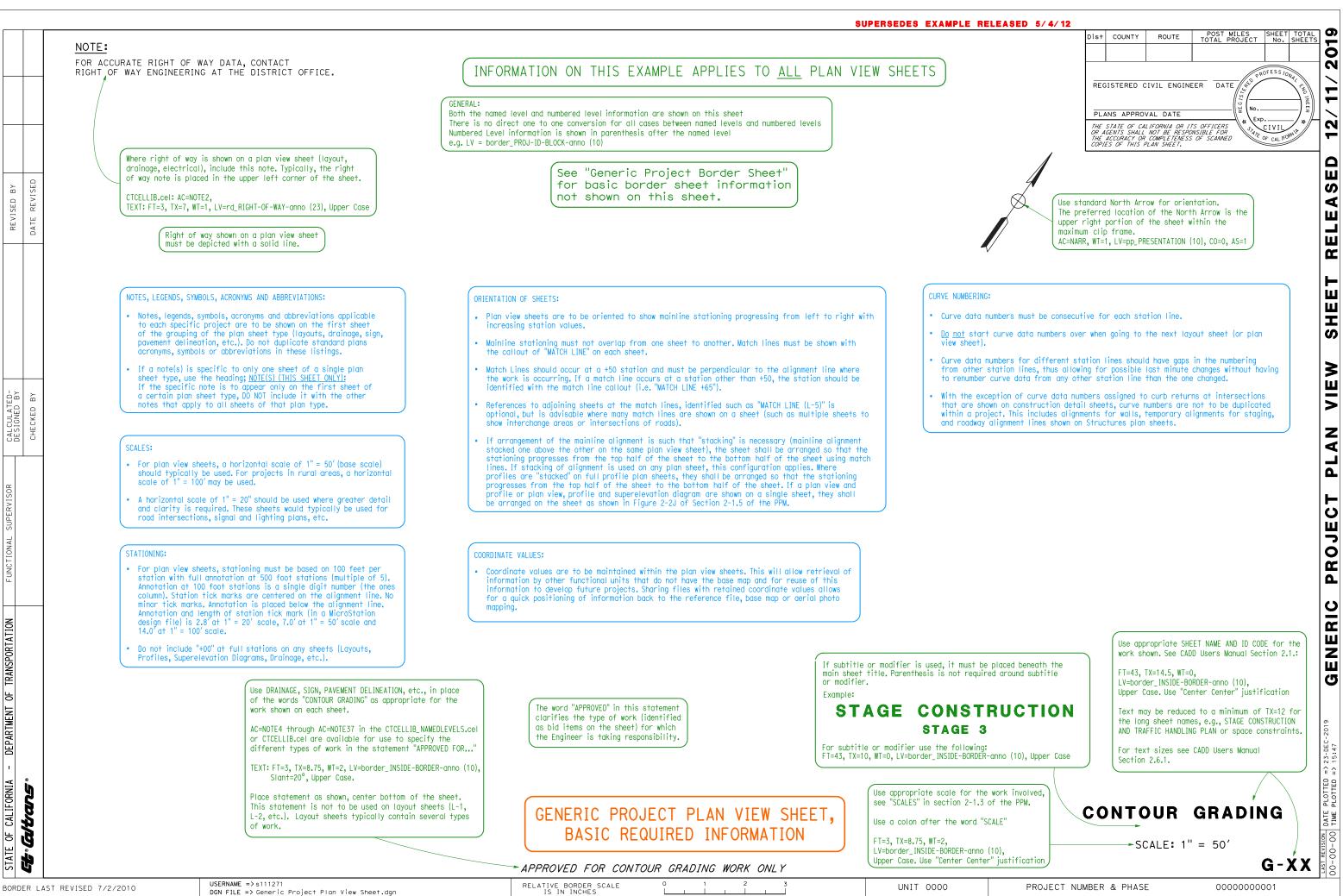
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			THE VARIOUS TYPES OF PROJECT FROM THE SAME CONSTRUCTION PR "ROUTE 65 BYPASS PROJECT."	ROJECT,				PROFILE							
			>									PROF		AND	
\vdash			SEE OTHER EXAMPLE SHEETS IN TH FOR MORE COMPLETE ANNOTATION O					ROUTE 65							M
\vdash			(MOST WILL BE IN FIRST SHEETS)					"SB10" LINE				SUPERELEV/			
					PR	OFILE	AND SUPERELEVAT	ION DIAGRAM SH	EET. E	EXAMPLE "65	PS-46	II) SCALE:	Vert	1" = 50′ 1" = 5′	<u> </u>
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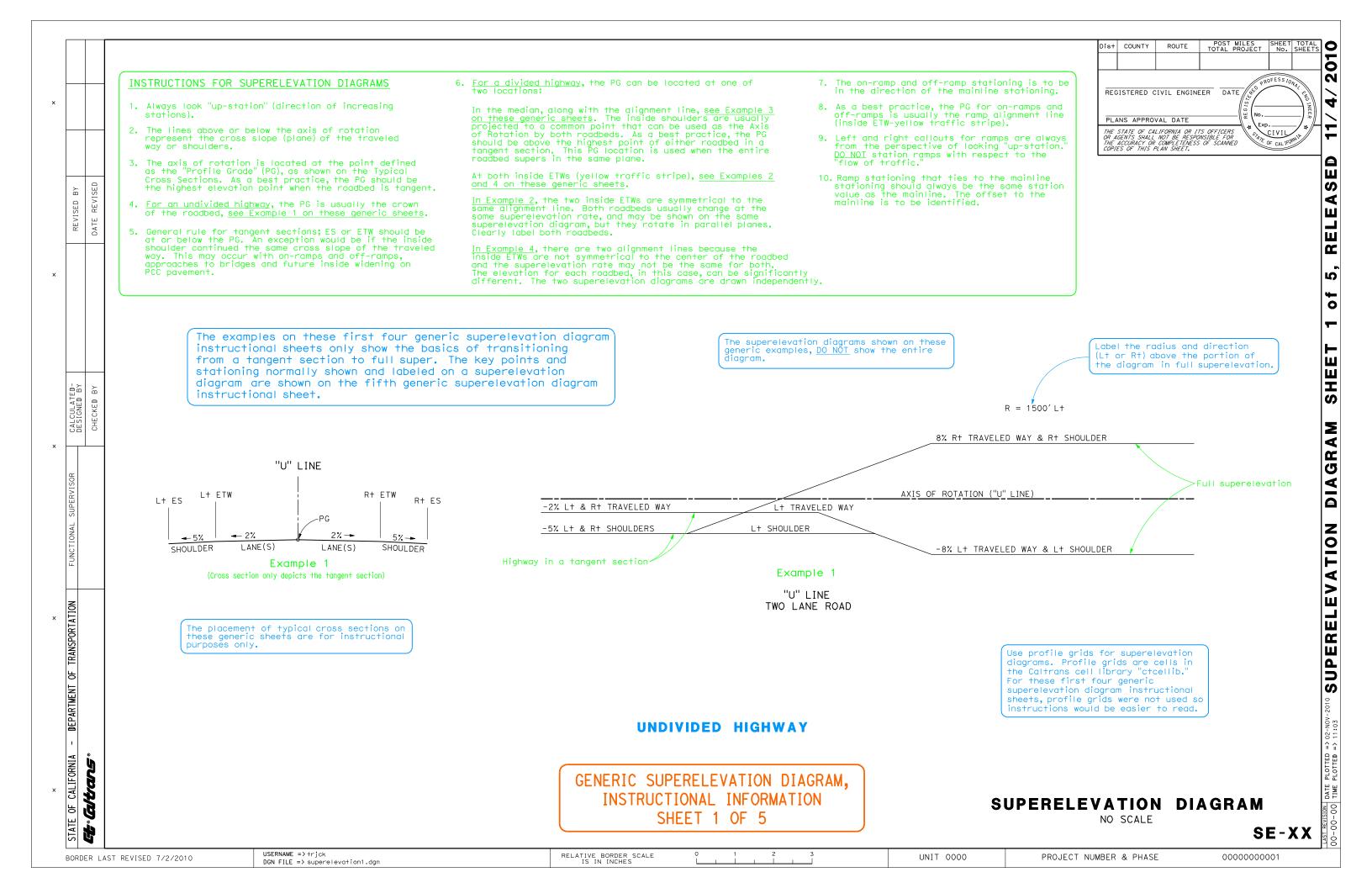


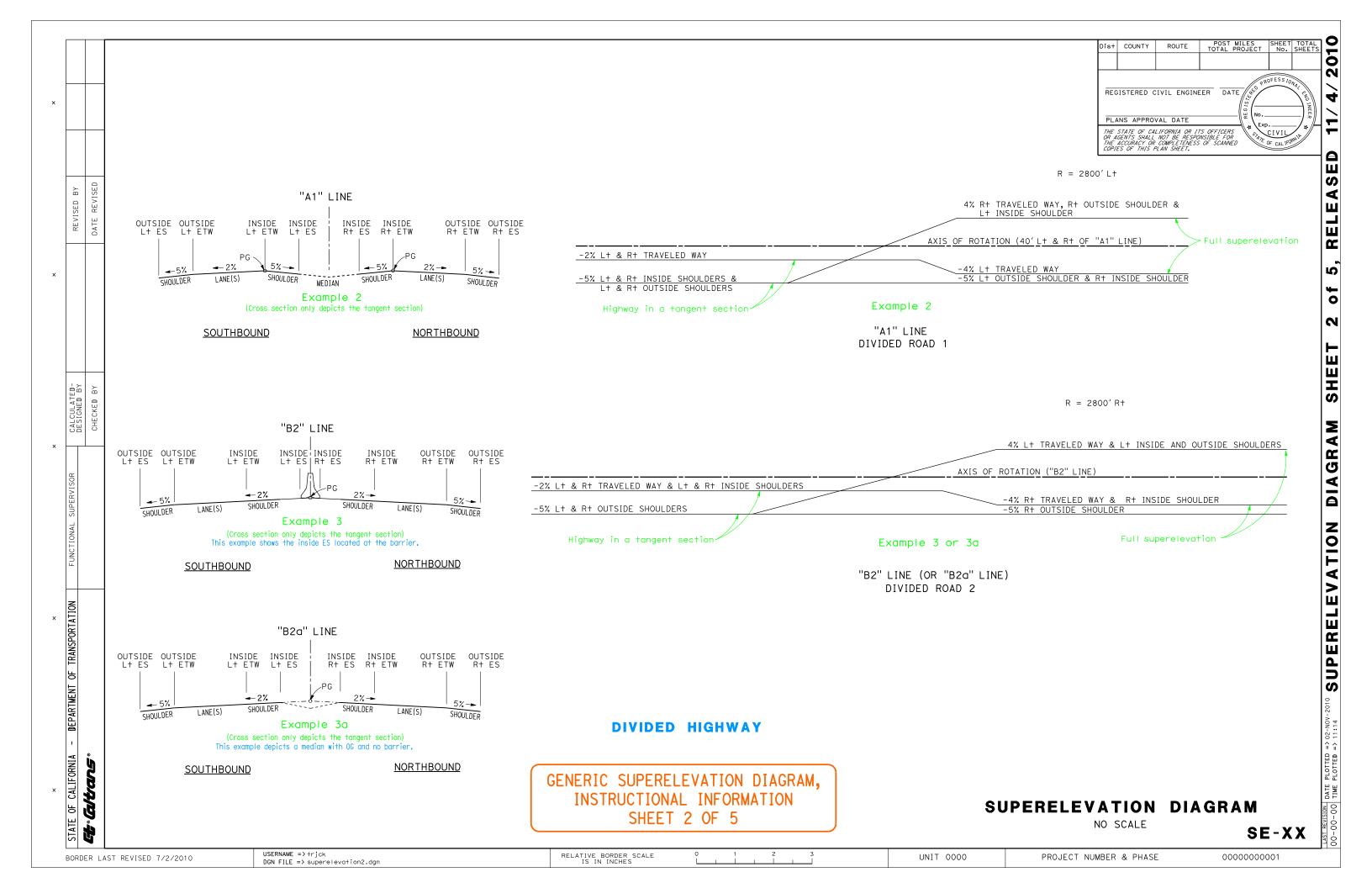
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×		-5%								51.5	3" 1049+63.3(5′ L+ "NB10" 5′ L+ "SB10"	1049+63.3	0 POT 6 POT			
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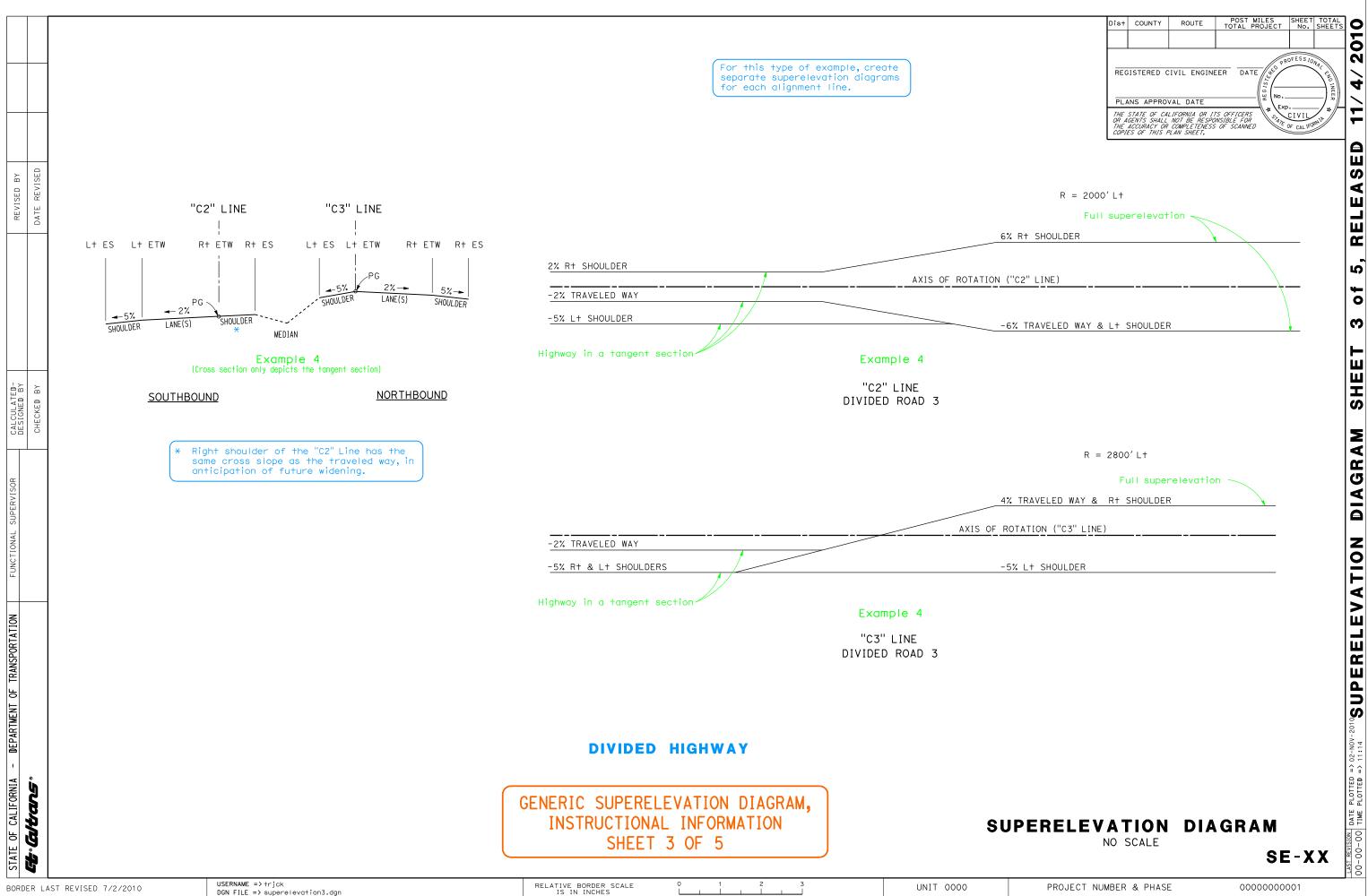








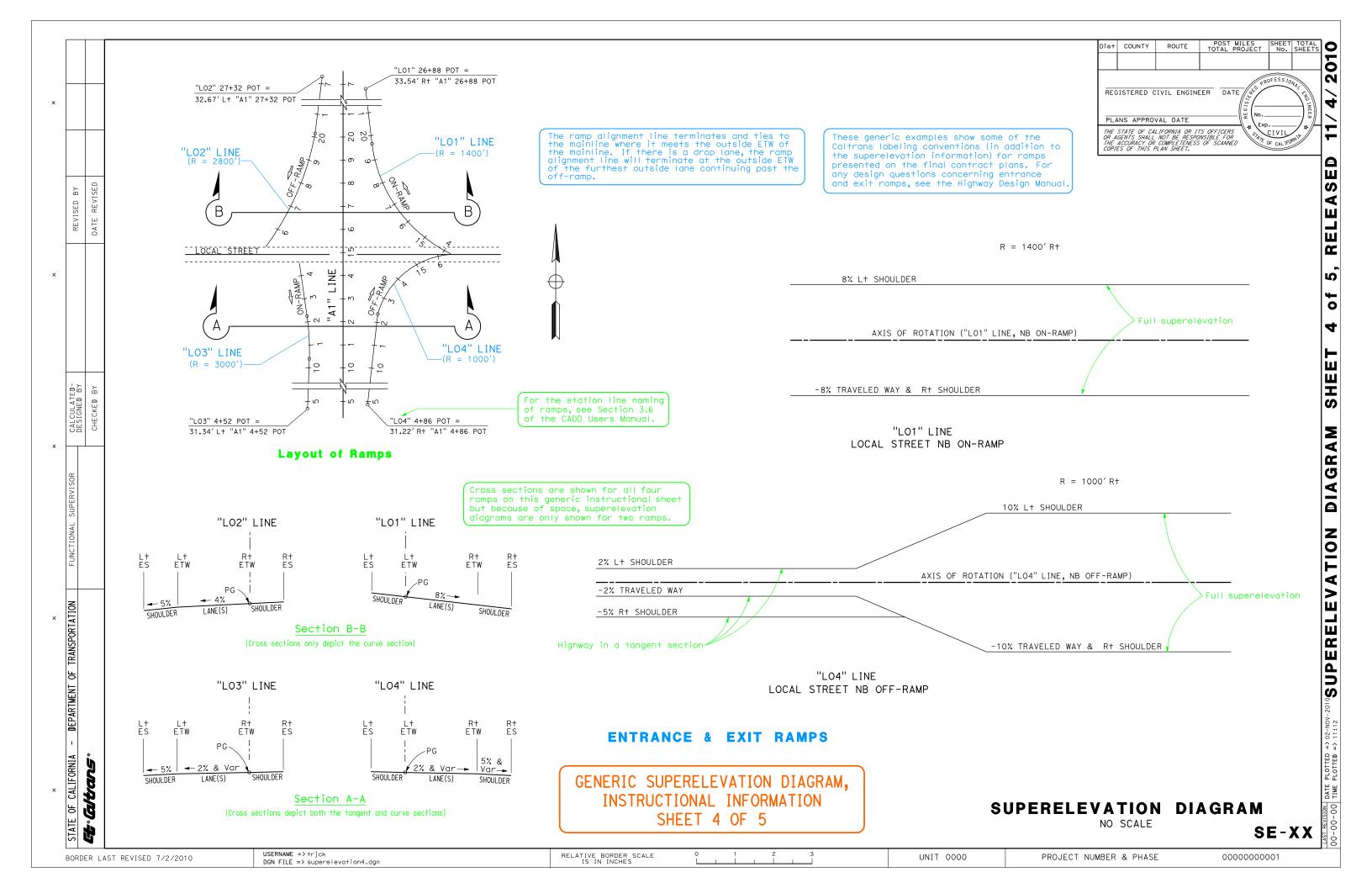


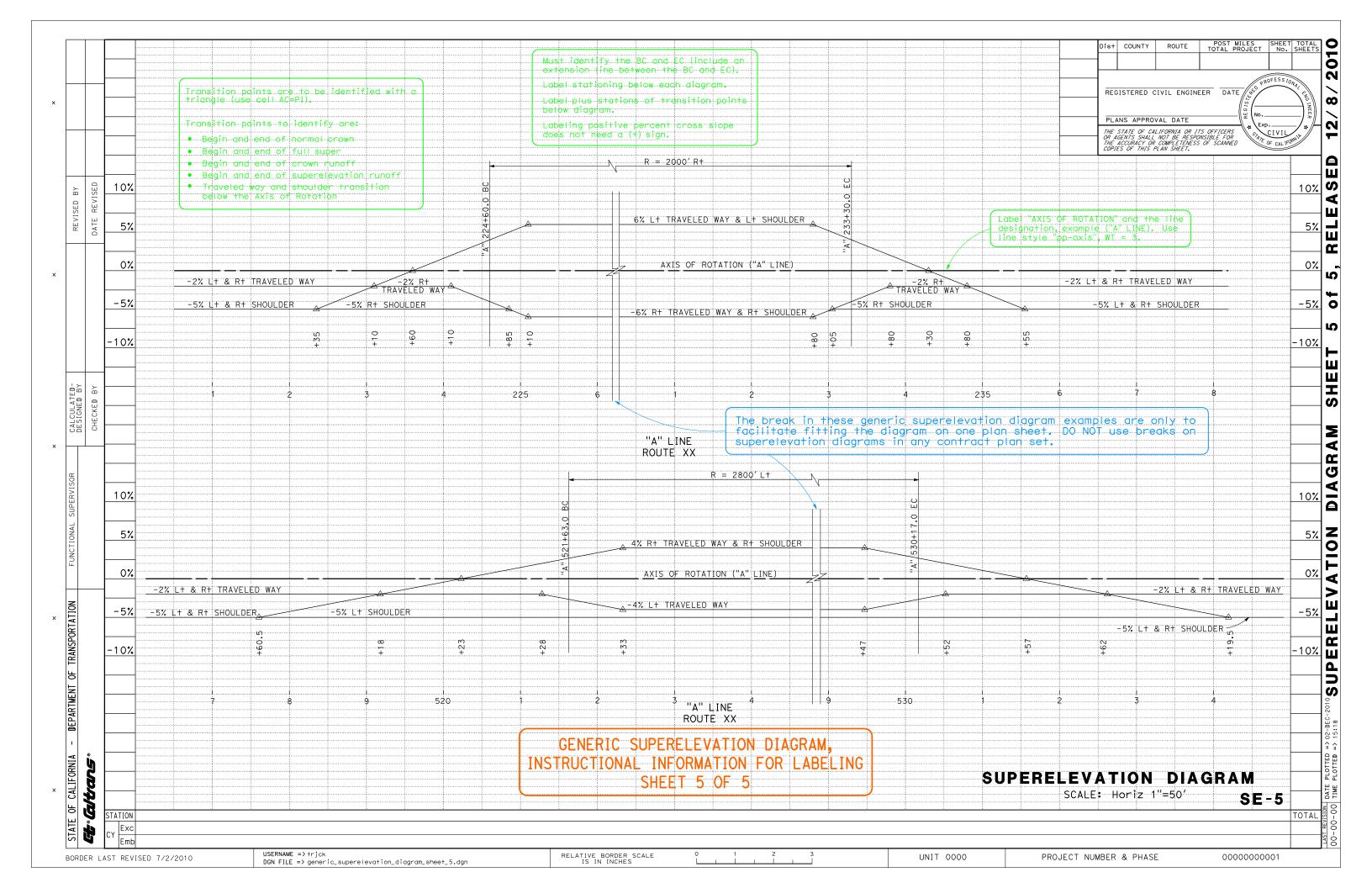


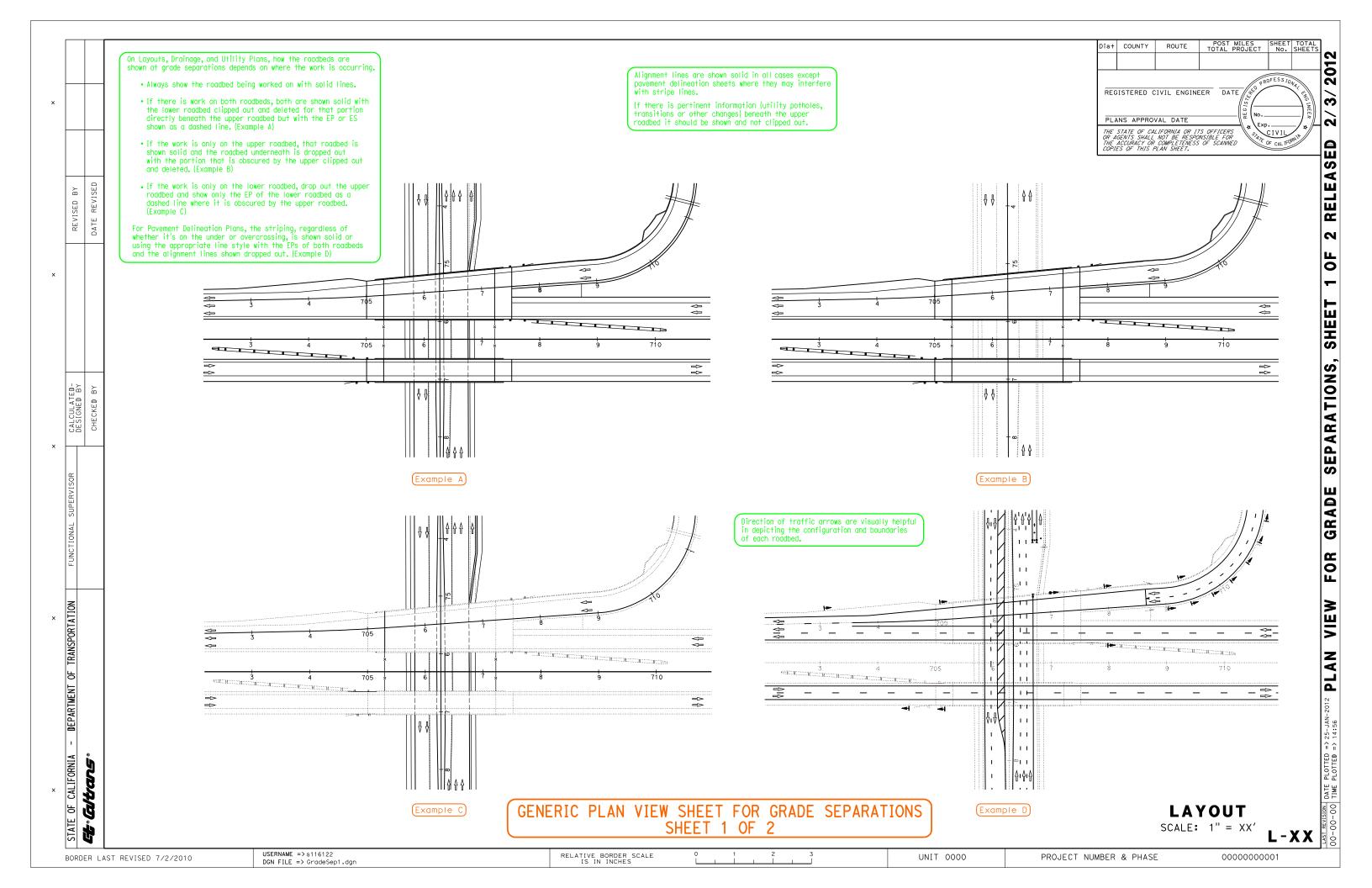
BORDER LAST REVISED 7/2/2010

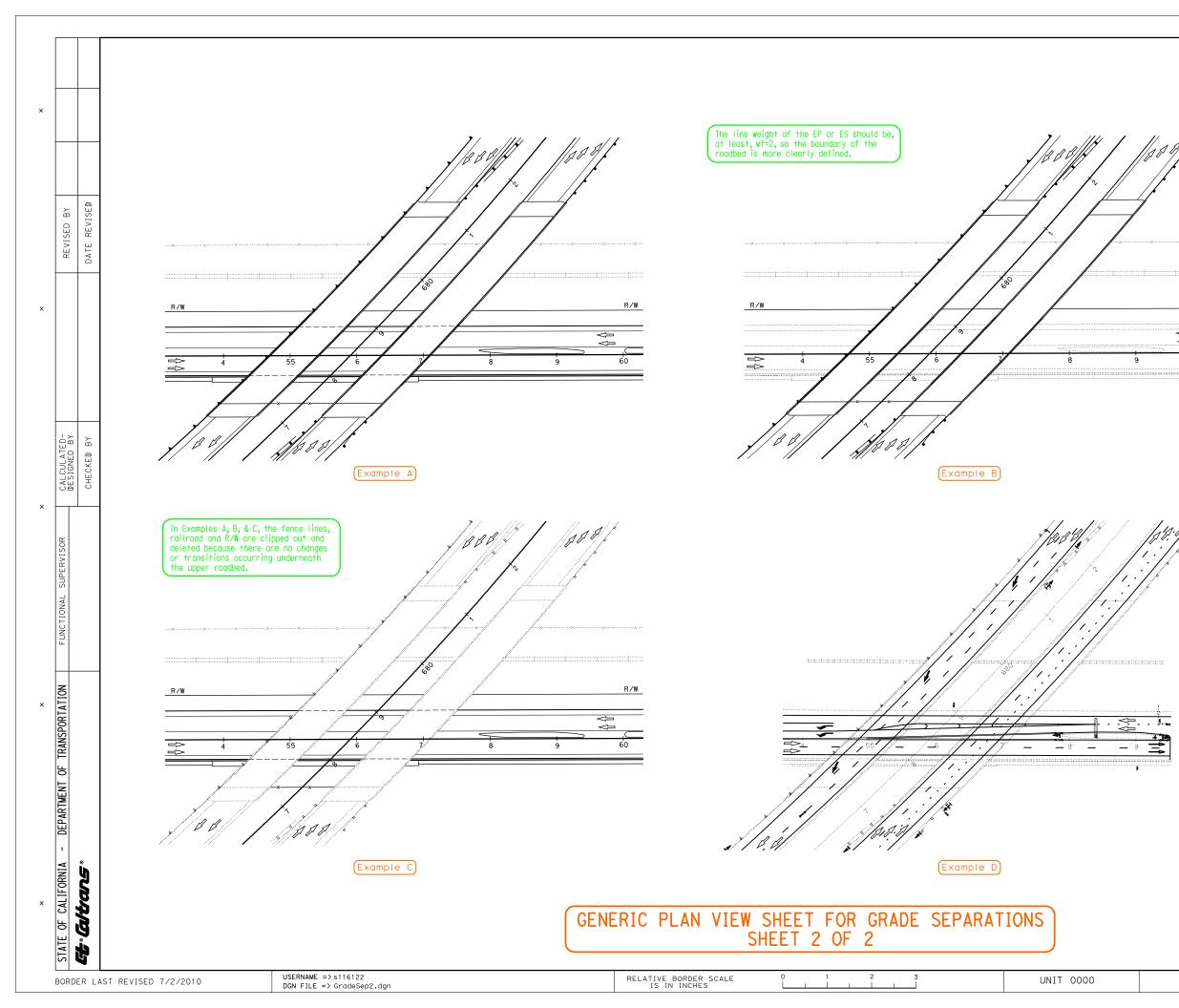
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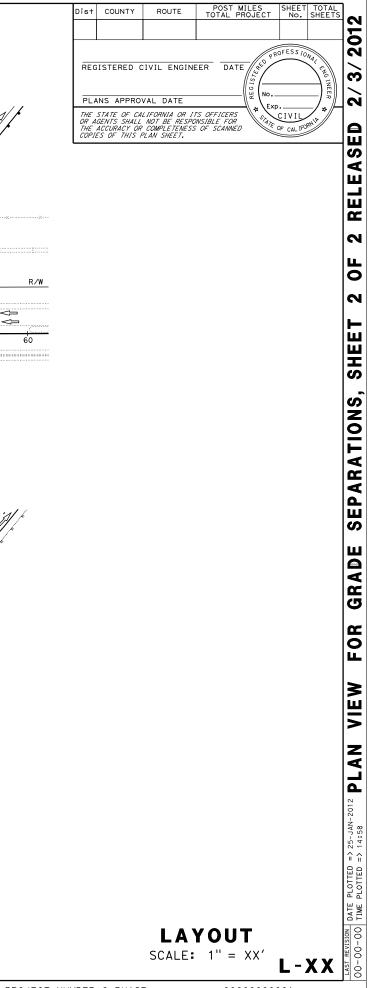
RELATIVE BORDER SCALE IS IN INCHES

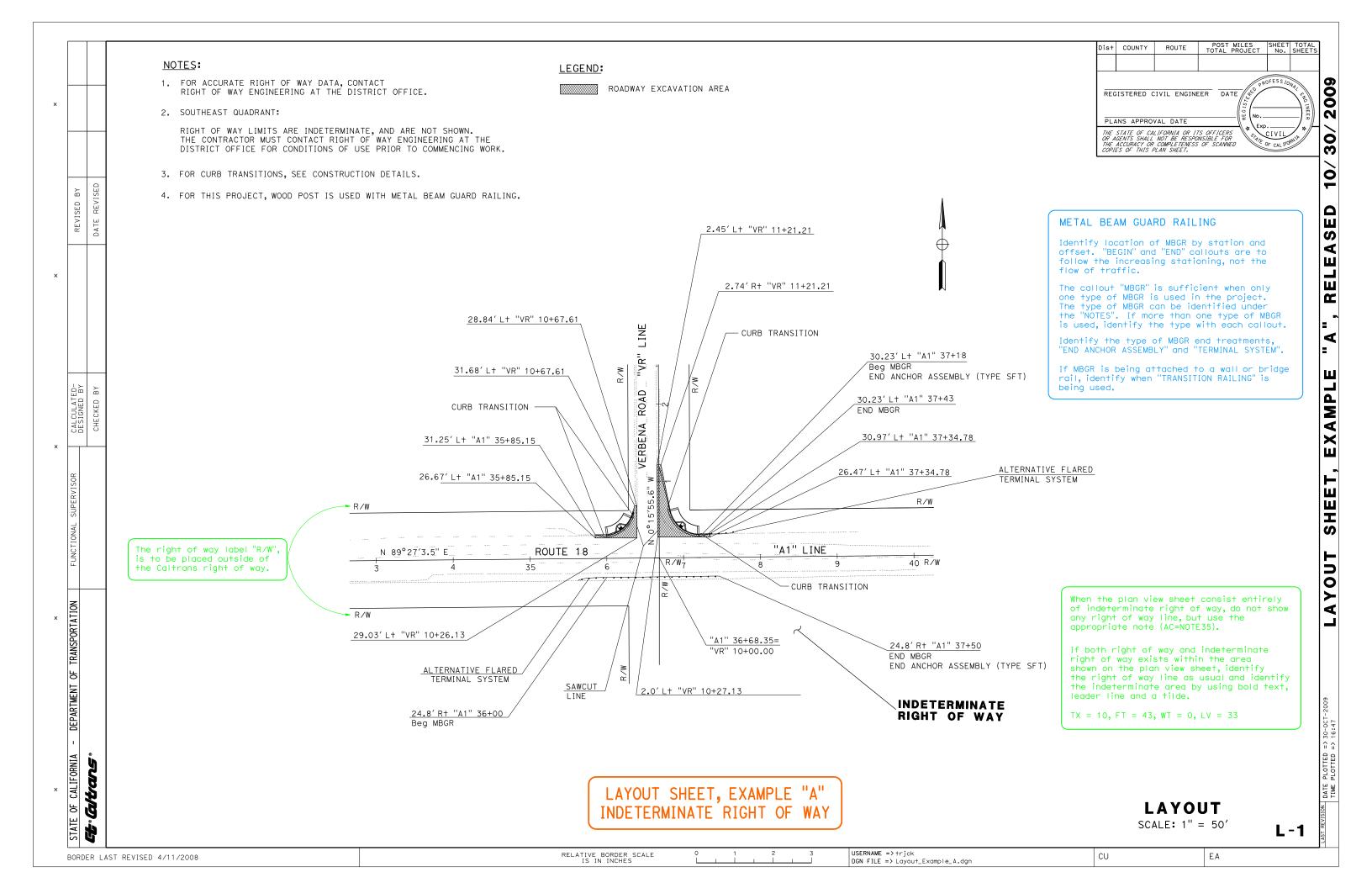












NOTE:

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SUPERVISOR

-UNCTIONAL

DEPARTMENT OF TRANSPORTATION

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For details not shown see Standard Plan A88A

DWS - Detectable Warning Surface

CALTRANS CONSERVATIVE DESIGN STANDARDS

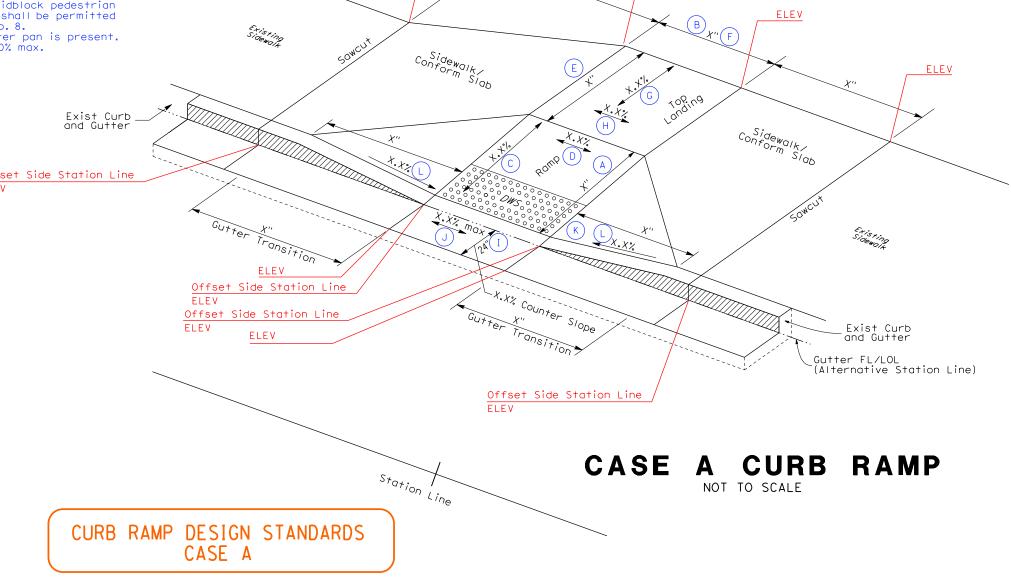
FEDERAL/CALIFORNIA STANDARDS

A Length of Ramp	(1)	Not required to exceed	15 feet, see DIB 82 4.3.8 #1	
B Width of Ramp		50" min	48" min	
C Slope of Ramp		7.5% max	8.3% max (1)	
D X Slope of the Ramp	(2)	1.5% ma×	2.0% max	
E Top Landing Length		50" min	48" min	
F Top Landing Width		50" min	48" min	
G Top Landing Slope		1.5% max	2.0% max	
(H) Top Landing X Slope	(2)	1.5% max	2.0% max	
[] Counter Slope	(3)	1"(V):24"(H) max	5.0% max	
J Flow Line Slope	(2)	1.5% max	2.0% max	
K Detactable Warning Surfo	oce	See Standard Plan A88A and DIB 82		
L Flare (Right/Left)		9.0% max at curb	10.0% max at curb	

(1) Curb ramps shall have a running slope not steeper than 8.3% maximum but shall not require the ramp length to exeed 15 feet.

(2) At pedestrian crossings without yield or stop control and at midblock pedestrian street crossings, the cross slope of curb ramps and landings shall be permitted

to equal the street or highway grade. See DIB 82 4.3.8 item No. 8. (3) Counter slope shall not exceed 1"(V):24"(H) or 4.2% where a gutter pan is present. If no gutter pan is present counter slope shall not exceed 5.0% max.



Offset Side Station Line ELEV

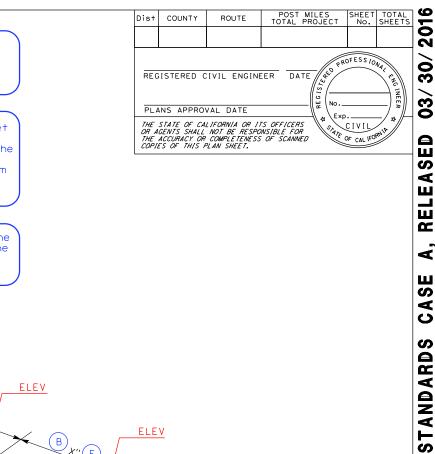
Items A through L graphically depict standards that are all required for compliance with the 2010 Americans with Disabilities Act or draft Public Rights of Way Accessibility Guidelines.

For each curb ramp location that is not designed to meet the conservative design standards include one (EA) quantity of bid item Pre/Post Construction Surveys in the bid item list. The intent of this bid item is to verify that construction complies with allowable variations from the dimensions and slopes shown on the contract plans required by CPB 14-1.

Location call outs and elevations direct the tie-in of the curb ramp to adjacent roadway, sidewalk, and grade at the project specific location with the compliant slopes and dimensions shown.

ELEV

	USERNAME => \$USER	RELATIVE BORDER SCALE	0 1 2 3	UNIT 0000
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ELEV

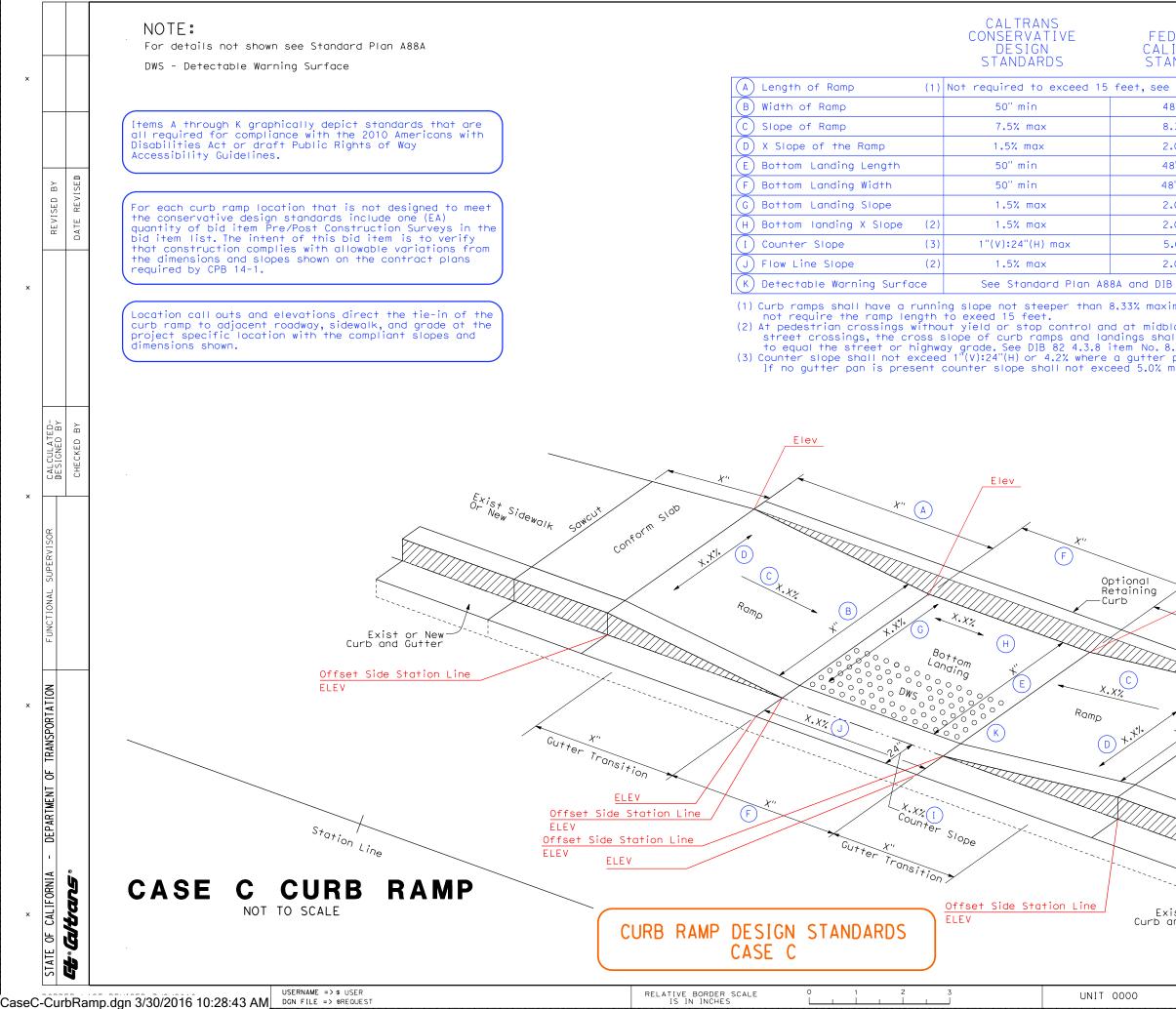
DESIGN

RAMP

CURB

\$DATE \$TIME

LAST REVISION DATE PLOTTED => (00-00-00 TIME PLOTTED => (



				POST MILES	SHEET	
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For Details not shown, see standard Plan A88A and A88B

DWS - Detectable Warning Surface

Note:

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Items A through K graphically depict standards that are all required for compliance with the 2010 Americans with Disabilities Act or draft Public Rights of Way Accessibility Guidelines.

		DESIGN I STANDARDS	FEDERAL/CALIFORNIA STANDARDS
A Length of Ramp	(1)	Not required to exceed 15	feet, see DIB 82 4.3.8 #1
B Width of Ramp		50" min	48" min
C Slope of Ramp		7.5% max	8.3% max (1)
D X Slope of the Ramp	(2)	1.5% max	2.0% max
E Bottom Landing Length		50" min	48" min
(F) Bottom Landing Width		50" min	48" min
G Bottom Landing Slope		1.5% max	2.0% max
(H) Bottom landing X Slope	(2)	1.5% max	2.0% max
I Counter Slope	(3)	1"(V):24"(H) max	5.0% max
J Flow Line Slope	(2)	1.5% max	2.0% max
K Detectable Warning Surfa	се	See Standard Plan A8	8B and DIB 82 4.3.14

CALTRANS CONSERVATIVE

> For each curb ramp location that is not designed to meet the conservative design standards include one (EA) quantity of bid item Pre/Post Construction Surveys in the bid item list. The intent of this bid item is to verify that construction complies with allowable variations from the dimensions and slopes shown on the contract plans required by CPB 14-1.

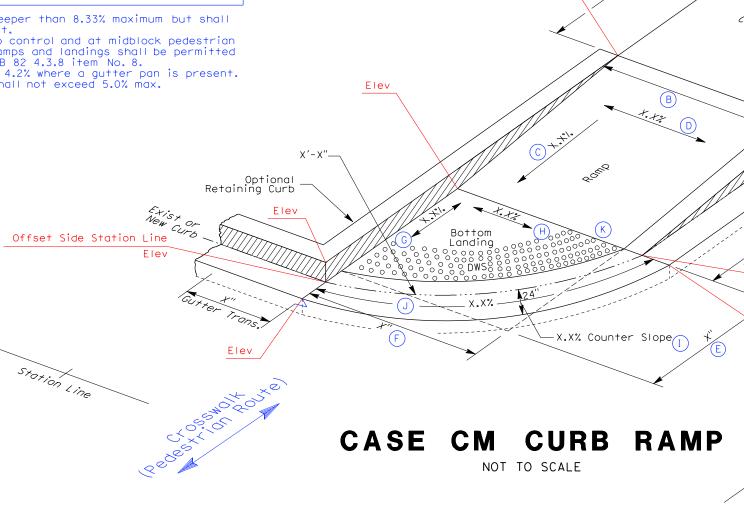
> Location call outs and elevations direct the tie-in of the curb ramp to adjacent roadway, sidewalk, and grade at the project specific location with the compliant slopes and dimensions shown.

> > Elev

(1) Curb ramps shall have a running slope not steeper than 8.33% maximum but shall not require the ramp length to exced 15 feet. (2) At pedestrian crossings without yield or stop control and at midblock pedestrian

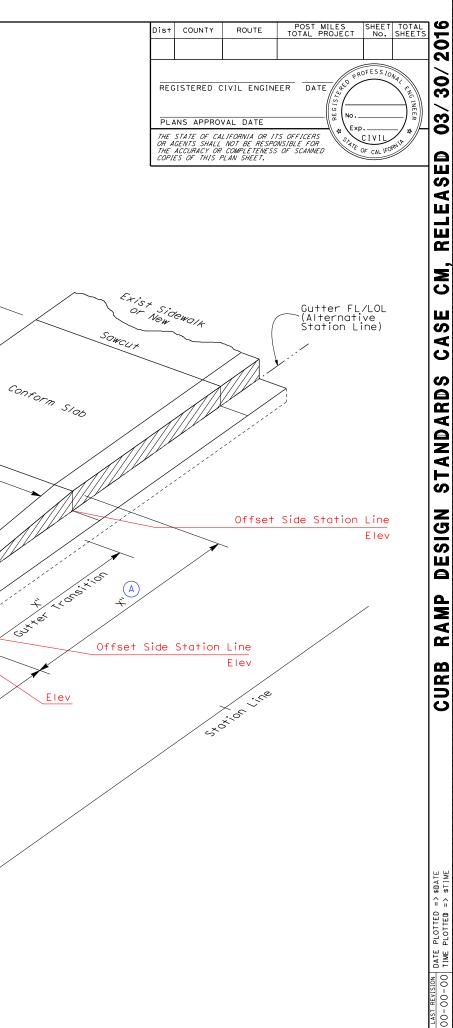
street crossings, the cross slope of curb ramps and landings shall be permitted to equal the street or highway grade. See DIB 82 4.3.8 item No. 8. (3) Counter slope shall not exceed 1"(V):24"(H) or 4.2% where a gutter pan is present.

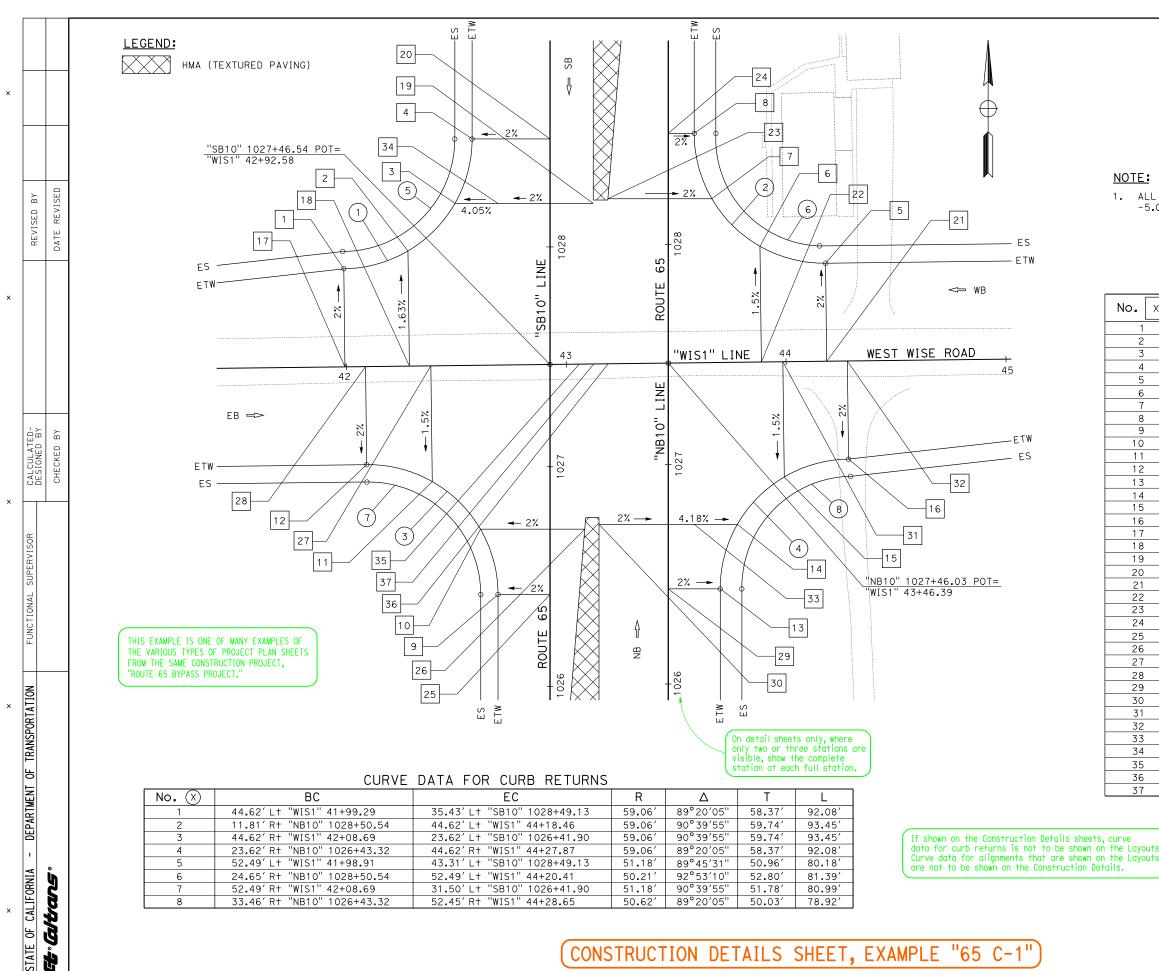
If no gutter pan is present counter slope shall not exceed 5.0% max.



# CURB RAMP DESIGN STANDARDS CASE CM

USERNAME => \$USER RELATIVE BORDER SCALE IS IN INCHES UNIT 0000 CaseCM Curb Ramp.dgn 3/24/2016 9:13:03 AMDON FILE => \$REQUEST





USERNAME =>s116122 DGN FILE => ga-65 C-001.dgn

RELATIVE BORDER SCALE IS IN INCHES 2 UNIT 0000

	SUPERSE	DES EXAM	PLE RELEASED	10/ 30/	/ 09		
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS		
03	Pla	65	R11.9/R24.1			2	
REGISTERED CIVIL ENGINEER PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACT OR COMPLETENESS OF SCANNED							
ERS	ALONG T	HE RADII	HAVE A			RELEASEI	

1. ALL OUTSIDE SHOULDERS ALONG THE RADII HAVE A -5.00% CROSS SLOPE.

# **PAVEMENT ELEVATIONS**

X	LOCATION	ELEVATION
	44.62′L+ "WIS1" 41+99.29	111.30
) -	52.42′L+ "WIS1" 42+28.62	111.92
5	43.23'L+ "SB10" 1028+19.80	112.53
ļ	35.43'L+ "SB10" 1028+49.13	112.99
i	44.62′L+ "WIS1" 44+18.46	111.44
5	52.65′L+ "WIS1" 43+88.73	112.14
,	19.84′R+ "NB10" 1028+20.81	113.06
5	11.81′R+ "NB10" 1028+50.54	113.10
)	23.62′L† "SB10" 1026+41.90	113.95
)	31.65′L+ "SB10" 1026+71.63	113.68
	52.64′R+ "WIS1" 42+38.42	112.18
) -	44.62′R+ "WIS1" 42+08.69	111.48
5	23.62'R+ "NB10" 1026+43.32	113.73
ŀ	31.42′R+ "NB10" 1026+72.64	113.02
, ,	52.42′R+ "WIS1" 43+98.54	111.96
,	44.62′R+ "WIS1" 44+27.87	111.25
	0′"WIS1" 41+99.29	112.19
;	0′"WIS1" 42+28.62	112.78
)	19.69′R+ "SB10" 1028+19.80	114.19
)	0′"SB10" 1028+49.13	113.69
	0′ "WIS1" 44+18.46	112.33
	0′ "WIS1" 43+88.73	112.92
5	27.46′L+ "NB10" 1028+20.81	114.01
ŀ	0′ "NB10" 1028+50.54	113.33
5	0′"SB10" 1026+41.90	114.42
j	15.79'R+ "SB10" 1026+71.63	114.63
,	0' "WIS1" 42+38.42	112.97
8	0′ "WIS1" 42+08.69	112.38
)	0′ "NB10" 1026+43.32	114.20
)	31.50'L+ "NB10" 1026+72.64	114.71
	0′"WIS1" 43+98.54	112.73
	0′ "WIS1" 44+27.87	112.14
5	11.81′R+ "NB10" 1026+72.64	113.84
ŀ	23.62′L+ "SB10" 1028+19.80	113.33
	0′ "WIS1" 43+05.88	114.23
,	0′"WIS1" 43+19.01	114.23
	O' "WIS1" 43+12.45	114.25



# CONSTRUCTION DETAILS (WEST WISE ROAD AT ROUTE 65)

## NO SCALE

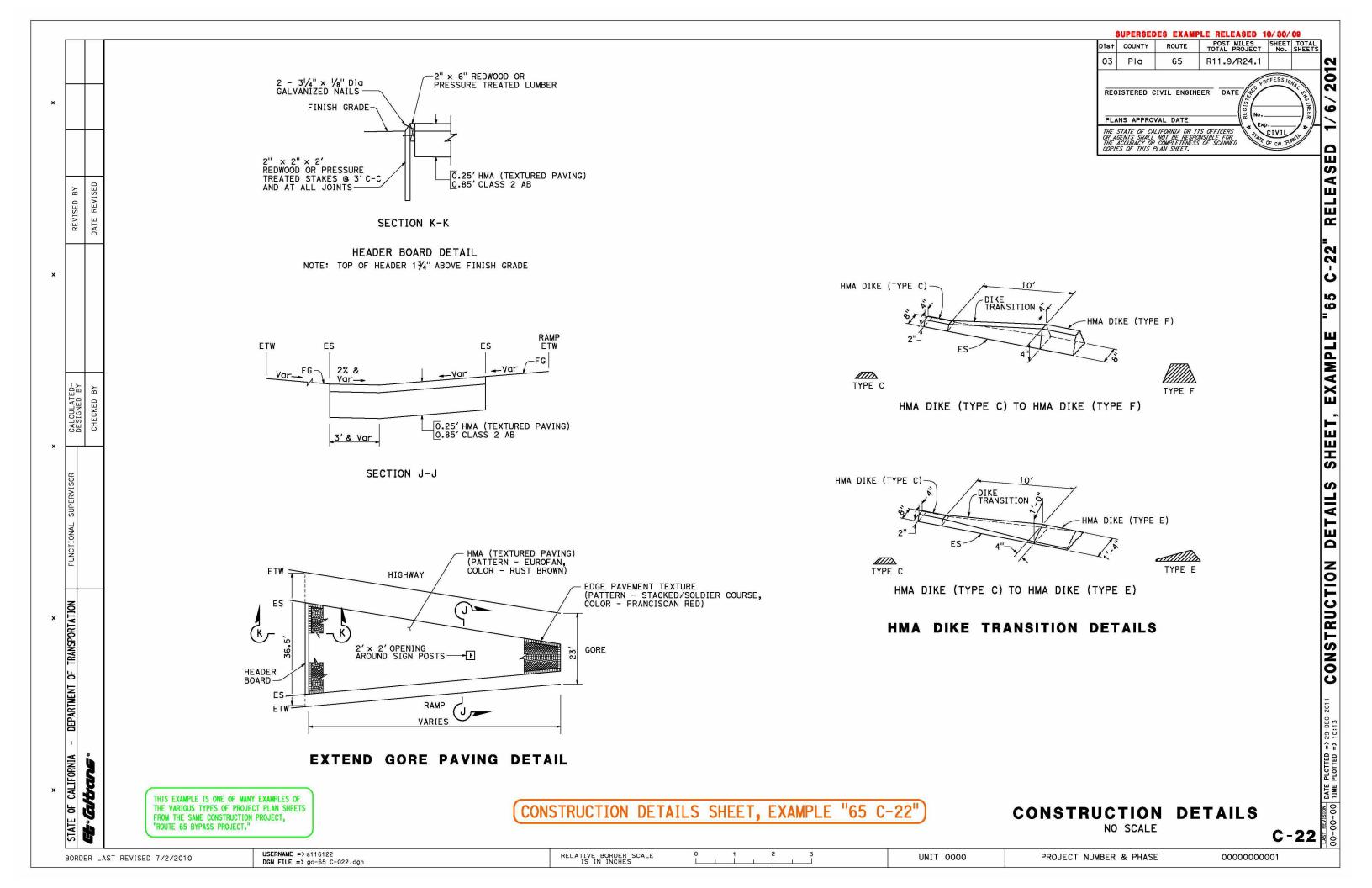
C-1

C-1"

.65

SHEET, EXAMPLE

CONSTRUCTION DETAILS



x x REVISED BY DATE REVISED	"D13" 654+06.40 BC " 99 " 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
A OR CALCULATED- DESIGNED BY CHECKED BY	Image: Shown on sheet L-2	"MVP4" Shown on sheet L-
DEPARTMENT OF TRANSPORTATION FUNCTIONAL SUPERVISOR	MVP         No. (×)         LOCATION         ELEVATION           1         84.97' R+ "D13" 655+28.74         142.06           2         96.78' R+ "D13" 655+09.39         140.41           3         96.78' R+ "D13" 654+25.70         139.69           4         84.79' R+ "D13" 654+25.44         141.27           5         34.78' L+ "D13" 676+72.80         175.03           6         24.93' L+ "D13" 676+52.98         174.35           7         24.93' L+ "D13" 675+79.50         173.59           9         "D13" 675+75.29         172.30           10         7.16' L+ "D13" 675+65.89         172.55           11         34.78' L+ "D13" 675+59.67         170.44	SEE TYPICAL CROSS SECTIONS
× state of california - De st*catas	THIS EXAMPLE IS ONE OF MANY EXAMPLES OF THE VARIOUS TYPES OF PROJECT PLAN SHEETS FROM THE SAME CONSTRUCTION PROJECT, "ROUTE 65 BYPASS PROJECT."	MAINTENANCE VEHICLE PULLOUT DETAILS

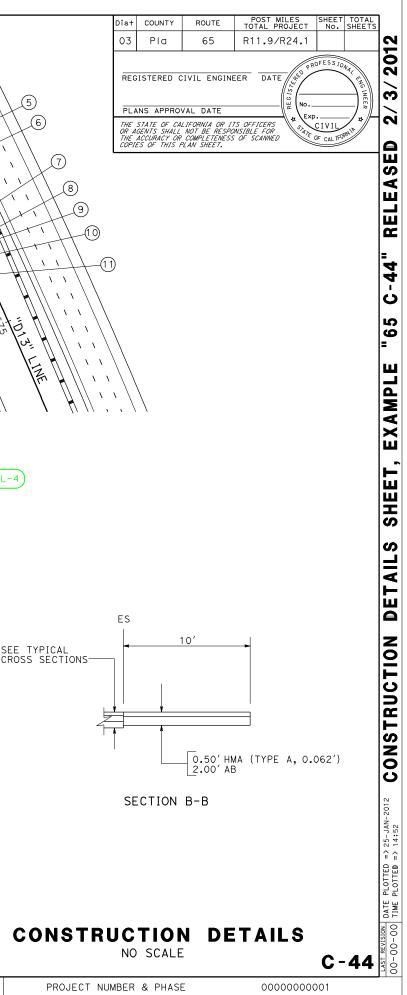
BORDER LAST REVISED 7/2/2010

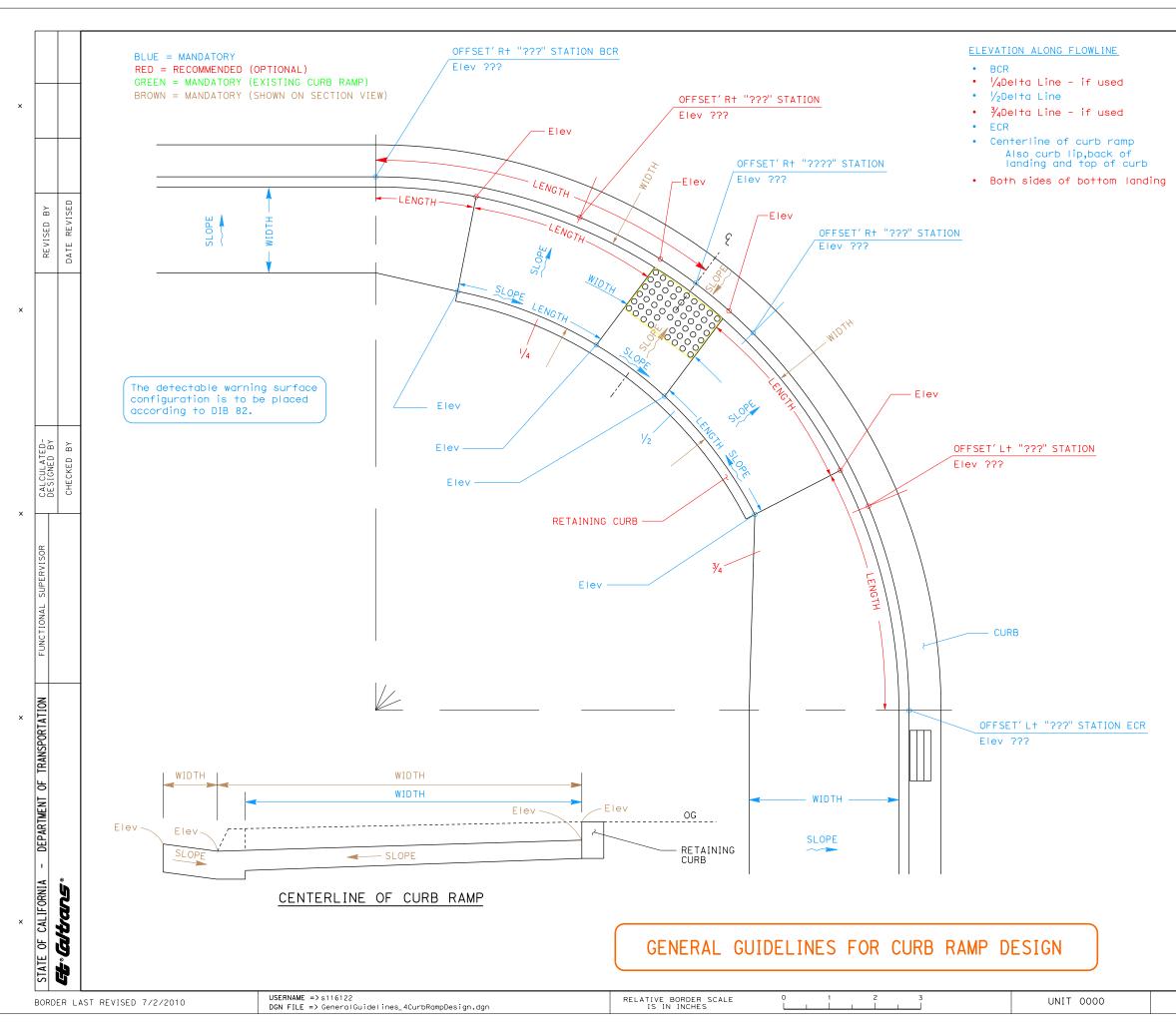
STAT **F** 

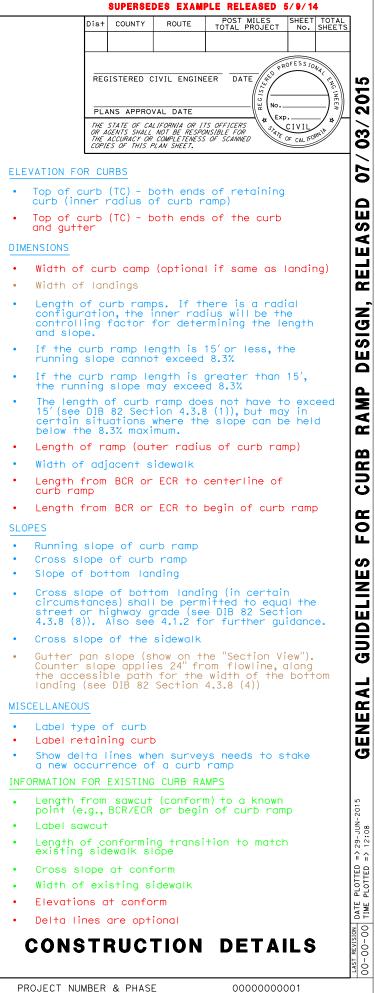
> USERNAME =>s116122 DGN FILE =>ga-65 C-044.dgn

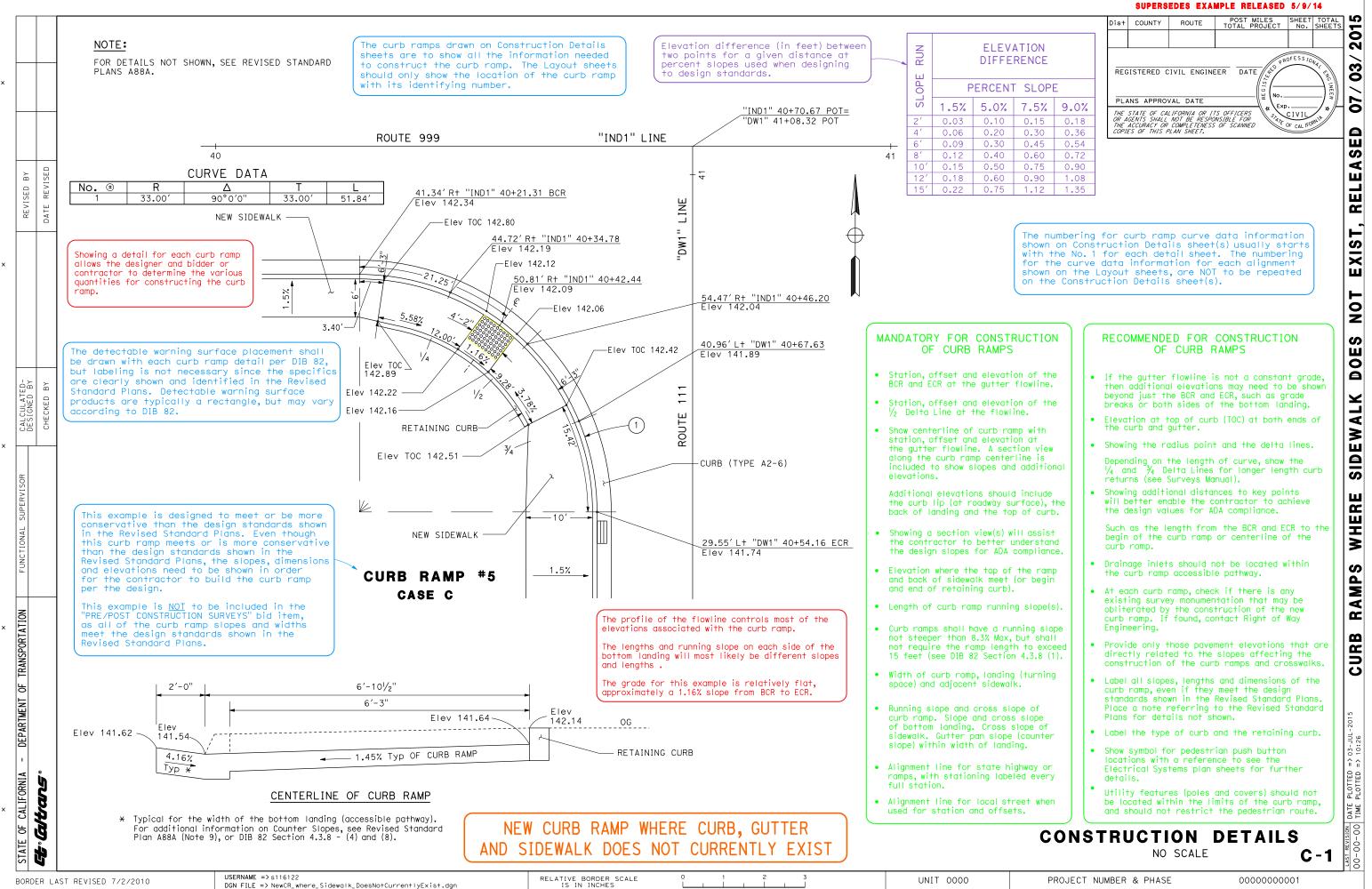
RELATIVE BORDER SCALE 0 IS IN INCHES 3

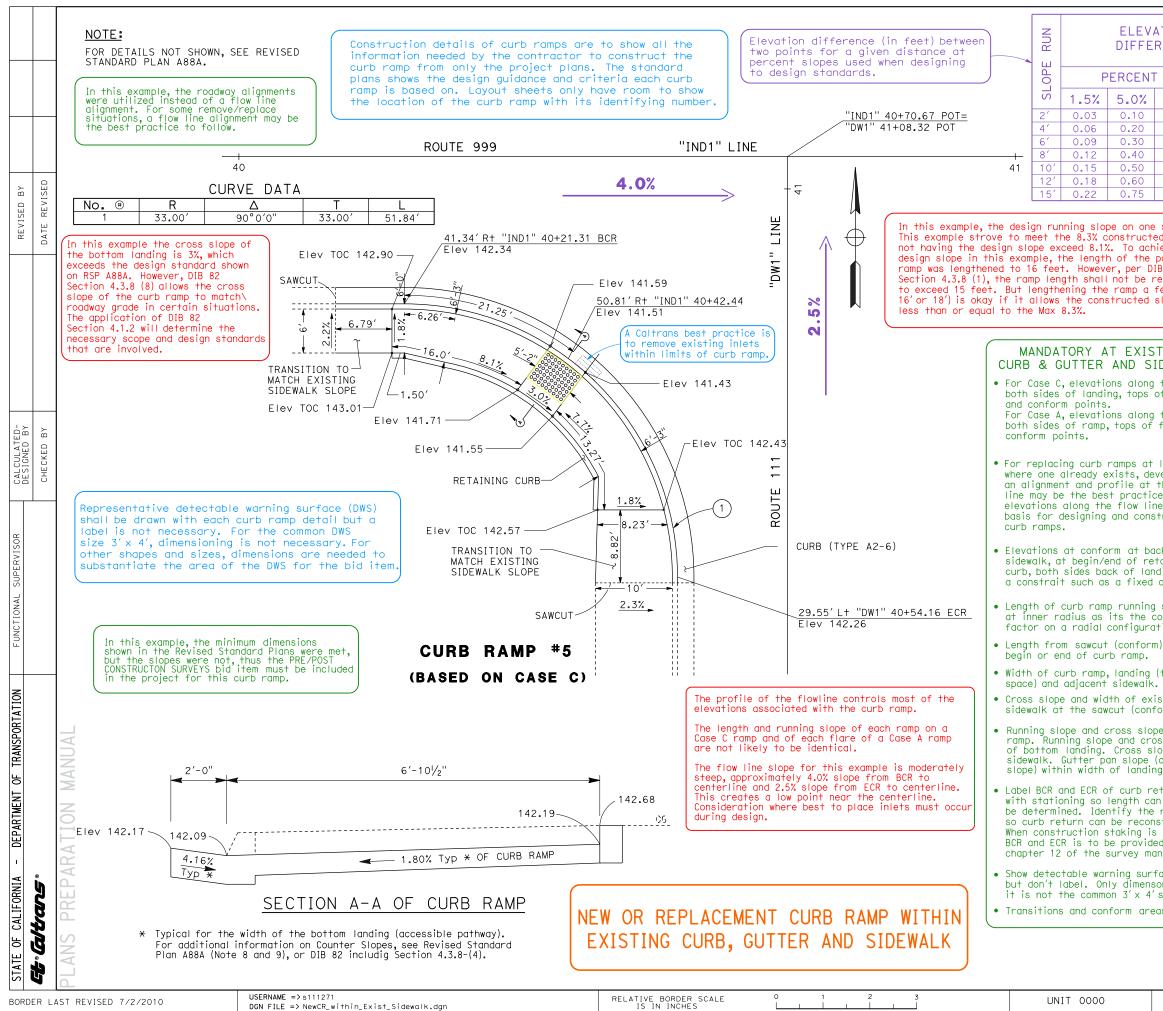
2



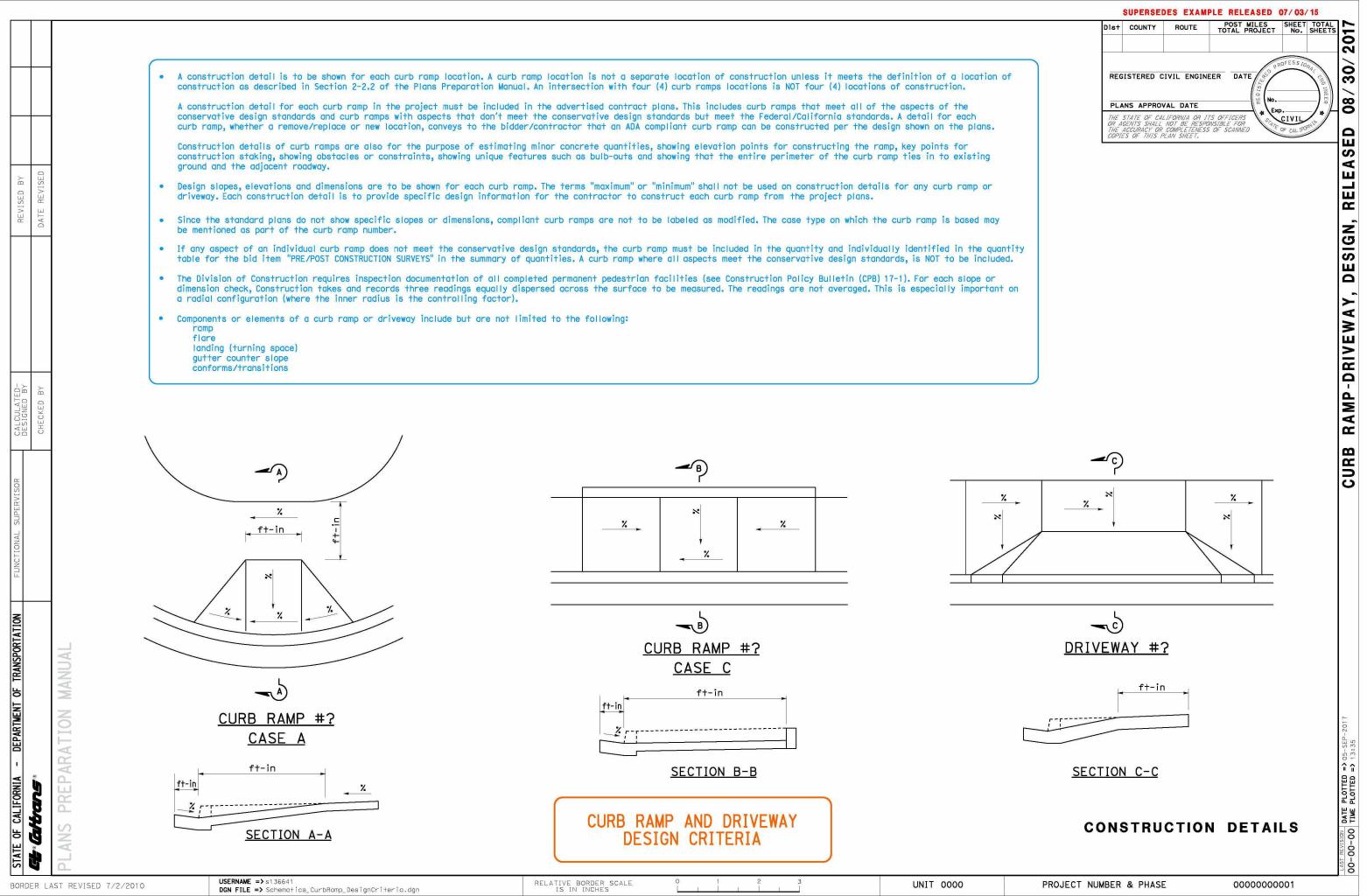








ATION         RECOME         7.5%       9.0%         0.15       0.18         0.30       0.36         0.45       0.54         0.45       0.54         0.10       1.12         1.12       1.35           side is 8.1%, ide is point of the controlling factor is the length and the running slope may exceed 8.3%. This side is 8.1%, ide along by identify side and the running slope may exceed 8.3%. This same steep and the runn run will not intercept the slow fact for beside of the running slope may exceed 8.3%. This same steep and the running slope may exceed 8.3%. This same steep and the running slope may exceed 8.3%. This same steep and the running slope may exceed 8.3%. This same steep and the running slope may exceed 8.3%. This same steep and the running slope may exceed 8.3%. This same steep and the running slope less than or equal the running slope may exceed 8.3%. This same steep and the running slope may exceed 8.3%. This same steep and the running slope may exceed 8.3%. This same steep and the running slope the same steep and the running slope less than or equal the running slope the same steep and the same steep	Dist		ROUTE	POST MILES	SHEET	
SLOPE         7.52       9.02         0.15       0.18         0.30       0.36         0.45       0.54         0.60       0.72         0.75       0.90         1.12       1.35         side is 8.17, is de is 9.17, is de is 8.17, is de is 9.17, is de is 0.17, is	ION			TOTAL PROJEC	T No.	SHEET
SLOPE       REGISTERED CIVIL ENGINEER DATE         7.5%       9.0%         0.15       0.18         0.30       0.36         0.45       0.54         0.60       0.72         0.75       0.90         1.12       1.35         side is 8.1%, d slope by eve the 8.1%, or all curb a82       If a curb ramp length is less than or equal to 15', the controlling factor is the length and the running slope may exceed 8.3%. This side with the curb ramp length is greater than 15', the controlling factor is the length and the running slope may exceed 8.3%. This side with the ramp run will not infercept the sidewalk surface, or will be excessively long before obtaining a slope less than or equal to 8.3%.         First the controlling factor is the length reaches 15', contact the Project Delivery Coordinator, or ADA coordinator in H0 Division of Design.         First the gutter flowline at flores and         First the gutter flowline is not a constant grade, then additional elevations may need to be shown in additional elevations needed to meet ADA compliance.         First the gutter flowline is not a constant grade, then additional elevations needed to be shown in additional elevations needed to the show slopes and additional elevations needed to the show slopes and additional elevations needed to meet ADA compliance.         Lecotin view may be included to show slopes and additional elevations needed to meet ADA compliance.         * K of alining tion.       If any existing survey monumentation is oblicherated by the construction of the curb ramp, contact	INCE		1		BOFESS /	1
7.5%       9.0%         0.15       0.18         0.30       0.36         0.45       0.54         0.60       0.72         0.75       0.90         0.90       1.05%         0.90       1.12         1.12       1.35         side is 8.1%.       If a curb ramp length is less than or equal to 5%, the controlling factor is the length and the running slope may exceed 8.3%. This situation occurs when the waisting grades are steep and the ramp run will not intercept the sidewick surface, or will be excessively long before obtaining a slope less than or equal to 8.3%. If there are questions about what "Best practice" to apply when the ramp length reaches 15%, contact the Project Dilvery Coordinator, or ADA coordinator in H0 Division of Design.         TING DEWALK flowline at flowline at flow and additional elevations may need to be shown in addition to the conform points and both sides of the bothm landing.         Elevation at top of curb (10C) at both ends of the curb and sutter.         Ilocations (elong)         etructing         the additional elevations needed to meet ADA compliance.         Additional elevations neoded to the stating grades are the are the tructing         the curb and sutter.         elonging         the curb and sutter.         elonging         the curb and should be relaxed to meet ADA compliance.         tructing         <		GISTERED (	CIVIL ENGIN	EER DATE	Pro lot	Not Ex
0.15       0.18         0.30       0.36         0.45       0.54         0.45       0.54         0.45       0.54         0.45       0.54         0.45       0.54         0.45       0.54         0.45       0.54         0.45       0.54         0.45       0.54         0.45       0.54         0.45       0.54         0.50       1.12         1.12       1.35         35       8.1%         dsteps by       by         eve test       8.1%         gaulred       by         eve test       16         flowline at       16				5-		
0.30       0.36         0.45       0.54         0.60       0.72         0.75       0.90         1.12       1.35         side is 8.1%, do signed with sizes than or equal to 15', the controlling factor is the 8.3% way spectro than 15', the controlling factor is the 8.3% way spectro the 8.1% object. But when a ramp length is greater than 15', the controlling factor is the length and the running slope may exceed 8.3%. This situation occurs when the existing grades are site and the ramp run will not intercept the sidewalk surface, or will be excessively long before obtaining a slope less than or equal to 8.3%. If there are questions about what "Bast Practice" to apply when the ramp length reaches 15', contact the Project Delivery Coordinator, or ADA coordinator in H0 Division of Design.         TING DEWALK flowline at flares and the gutter flowline is not a constant grade, then additional elevations may need to be shown in addition at the project Delivery Coordinator.         Iccations veloping the flow e. The gutter flowline is not a constant grade, then additional elevations may need to be shown in addition at the pof curb (TOC) at both ends of the curb and gutter.         Iccations veloping the flow e. The gutter flowline is not a constant grade, then additional elevations needed to meet ADA compliance.         Iccations slope(s), ontrolling or object.         Ising or object.         Icturing string or object.         Icturing string drainage inlets within the limits of the curb ramp should be relocated outside the construction of the curb ramp, contact Right of Way Engineering.         Icturing string dra	FL				Exp	—/ *//
0.60       0.72         0.75       0.90         0.90       1.02         1.12       1.35     Side is 8.1%, dispee but when a ramp length is greater than 15', the controlling factor is the length and 15', the control is a constant grade, then addition to the control is and both sides of the bott	0.30 0.36 THE	STATE OF CA AGENTS SHALL ACCURACY OF	NOT BE RESPO ROT BE RESPO COMPLETENES.	DNSIBLE FOR S OF SCANNED	ATE OF CAL IF	ORNIA
0.75       0.90         0.90       1.08         1.12       1.35         side is 8.1%.       is ope. But when a ramp length is less than or equal to 15', the controlling factor is the 8.3% Max between the 8.1% ope. But when a ramp run will not intercept the sidewalk surface, or will be excessively long before obtaining a slope may exceed 8.3%. This situation occurs when the existing grades are steep and the ramp run will not intercept the sidewalk surface, or will be excessively long before obtaining a slope less than or equal to 8.3%.         10       10       10.20         11       10.35       11         11       10.35       11         11       10.35       11         11       10.35       11         11       10.35       11         11       10.35       11         11       10.35       11         11       10.35       11         11       10.35       11         11       15', the controlling factor is the length and the running slope may exceed 8.3%. This situation occurs when the existing grades are steep and the ramp run will not intercept the sidewalk surface, or will be excessively long before obtaining a slope length the cangual to the slope of 15', contact the Project Delivery Coordinator, or ADA coordinator in H0 Division of Design.         TING       EXECOMMENDED FOR CONSTRUCTION OF CURB RAMPS         10       16       the		IES OF THIS I	PLAN SHEET.			
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<ul> <li>If any existing survey monumentation is obliterated by the construction of the curb ramp, contact Right of Way Engineering.</li> <li>Provide only those pavement elevations that are directly related to the slopes affecting the construction of the curb ramps and crosswalks</li> <li>Label the type of curb and the retaining curb.</li> <li>Show a sidewalk conform slab if necessary, with elevations and slopes at the sawcut line and begin and end curb ramp/landing.</li> <li>Locate pedestrian push buttons, and refer to Electrical Systems plan sheets for further details.</li> <li>Utility features (poles and covers) should not be located within the limits of the curb ramp, and should not restrict the pedestrian route.</li> <li>In addition to the flow line alignment, roadway alignment lines appendent.</li> </ul>	the c	curb ramp	should be	relocated ou		
<ul> <li>Provide only those pavement elevations that are directly related to the slopes affecting the construction of the curb ramps and crosswalks</li> <li>Label the type of curb and the retaining curb.</li> <li>Show a sidewalk conform slab if necessary, with elevations and slopes at the sawcut line and begin and end curb ramp/landing.</li> <li>Locate pedestrian push buttons, and refer to Electrical Systems plan sheets for further details.</li> <li>Utility features (poles and covers) should not be located within the limits of the curb ramp, and should not restrict the pedestrian route.</li> <li>In addition to the flow line alignment, roadway alignment.</li> </ul>	on. If an oblit	erated by	the cons	truction of th	he curb	
<ul> <li>Label the type of curb and the retaining curb.</li> <li>Label the type of curb and the retaining curb.</li> <li>Show a sidewalk conform slab if necessary, with elevations and slopes at the sawcut line and begin and end curb ramp/landing.</li> <li>Locate pedestrian push buttons, and refer to Electrical Systems plan sheets for further details.</li> <li>Utility features (poles and covers) should not be located within the limits of the curb ramp, and should not restrict the pedestrian route.</li> <li>In addition to the flow line alignment, roadway alignment.</li> </ul>	Provi	ide only t	- hose pave	ment elevation	ns that	
<ul> <li>Label the type of curb and the retaining curb.</li> <li>Label the type of curb and the retaining curb.</li> <li>Show a sidewalk conform slab if necessary, with elevations and slopes at the sawcut line and begin and end curb ramp/landing.</li> <li>Locate pedestrian push buttons, and refer to Electrical Systems plan sheets for further details.</li> <li>Utility features (poles and covers) should not be located within the limits of the curb ramp, and should not restrict the pedestrian route.</li> <li>In addition to the flow line alignment, roadway alignment.</li> </ul>	cons					
<ul> <li>elevations and slopes at the sawcut line and begin and end curb ramp/landing.</li> <li>or ramp.</li> <li>Locate pedestrian push buttons, and refer to Electrical Systems plan sheets for further details.</li> <li>Utility features (poles and covers) should not be located within the limits of the curb ramp, and should not restrict the pedestrian route.</li> <li>In addition to the flow line alignment, roadway alignment line and should not restrict the pedestrian route.</li> </ul>		the type	e of curb	and the retain	ning cur	b.
<ul> <li>or ramp.</li> <li>Locate pedestrian push buttons, and refer to Electrical Systems plan sheets for further details.</li> <li>Utility features (poles and covers) should not requested be located within the limits of the curb ramp, and should not restrict the pedestrian route.</li> <li>In addition to the flow line alignment, roadway alignment lips and be obere for actablishing.</li> </ul>	slope eleve e of begin	ations and	d slopes a	t the sawcut I		
<ul> <li>defuts.</li> <li>Utility features (poles and covers) should not be located within the limits of the curb ramp, and should not restrict the pedestrian route.</li> <li>In addition to the flow line alignment, roadway alignment lines are be shown for extliciting</li> </ul>	or ramp. Loca- Elect	trical Sys				c
<ul> <li>Utility features (poles and covers) should not be located within the limits of the curb ramp, and should not restrict the pedestrian route.</li> <li>In addition to the flow line alignment, roadway alignment be able to a be able to a should not restrict the pedestrian and should not restrict the pedestrian route.</li> </ul>	easily dera	15.				
ual. In addition to the flow line alignment, roadway	ructed. Utili equested be lo	ocated wit	hin the li	mits of the c	urb ram	ıp,
dee (UIIS)	al. e (DWS)	ment line	s can be s	shown for esta	ablishin	g
size.				A DI THY KIOW		
35						



NOTE: FOR DETAILS NOT SHOWN SEE STANDARD PLAN A88A	ABBREVIATIONS: DWS DETECTABLE WARNING SURFACE TC TOP OF CURB TR TOP OF RAMP
CALTRANS CONSERVATIVE DESIGN FEDEI STANDARDS	AL/CALIFORNIA TANDARDS
(A) Length of Ramp(1) Not required to exceed 15 fe(B) Width of Ramp50" min	+, DIB 82 4.3.8 #1 48" min

8.3% max

2.0% max

48" min

48" min

2.0% max

2.0% max

5.0% max

2.0% max

10.0% max at curb

(1)

7.5% max

1.5% max

50" min

50" min

1.5% max

1.5% max

1"(V):24"(H) max

1.5% max

9.0% max at curb

(2)

(2)

(3)

(2)

(K) Detactable Warning Surface See Standard Plan A88A and DIB 82

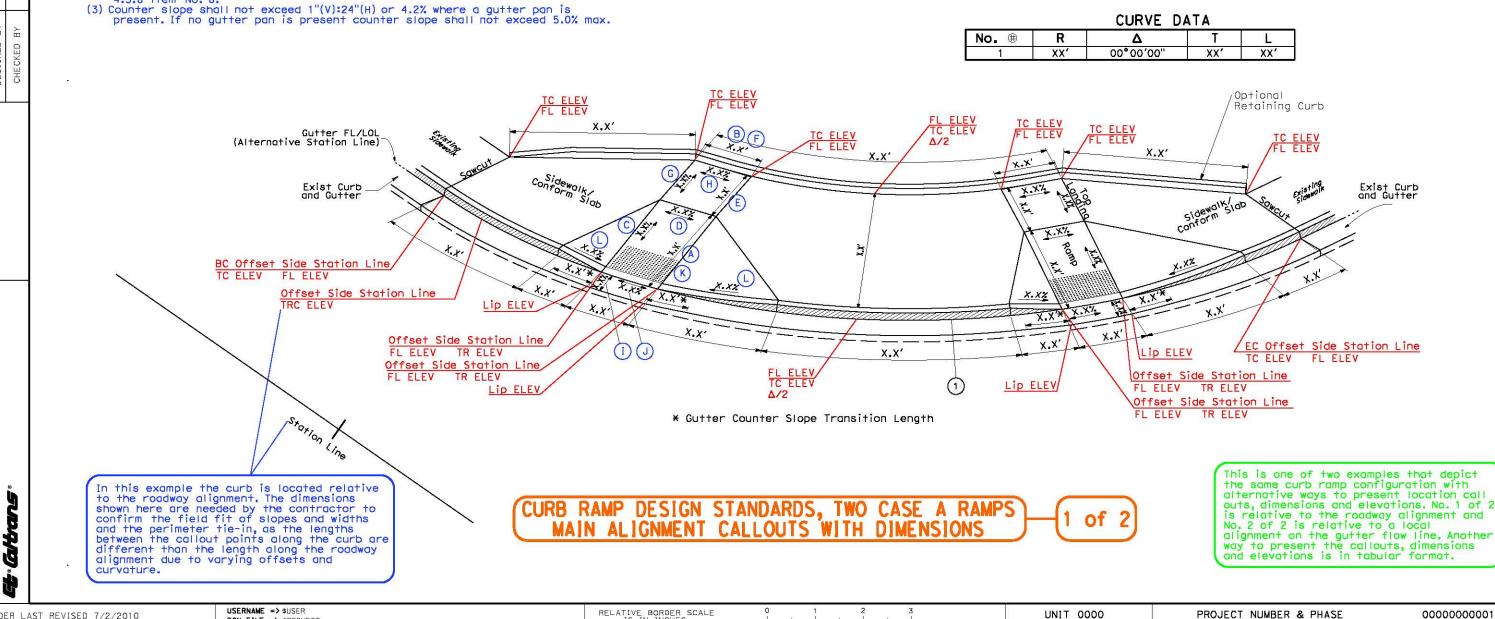
(1) Curb ramps shall have a running slope not steeper than 8.3% maximum but (2) At pedestrian crossings without yield or stop control and at midblock

pedestrian street crossings, the cross slope of curb ramps and landings shall be permitted to equal the street or highway grade. See DIB 82 4.3.8 item No. 8.

For each curb ramp location that is not designed to meet the conservative design standards include one (EA) quantity of bid item Pre/Post Construction Surveys in the bid item list. The intent of this bid item is to verify that construction complies with allowable variations from the dimensions and slopes shown on the contract plans required by CPB 14-1.

Location call outs and elevations direct the tie-in of the curb ramp to adjacent roadway, sidewalk, and grade at a project specific location with the grade at a project specific location with the specific compliant slopes and dimensions shown. Removal and replacement of any existing pavement or other surfacing necessary to tie-in to the proposed curb ramp is not shown in this example.

		CUR
No.	R	Δ
1	XX'	00°00



BORDER LAST REVISED 7/2/2010

(C) Slope of Ramp

(F)

(1)

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(D) X Slope of the Ramp

Top Landing Width

(H) Top Landing X Slope

(E) Top Landing Length

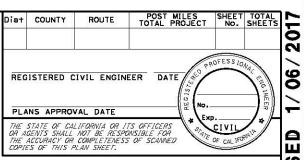
(G) Top Landing Slope

Counter Slope

(L) Flare (Right/Left)

(J) Flow Line Slope

DGN FILE => \$REQUEST



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PLOTTED PLOTTED

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**PROJECT NUMBER & PHASE** 

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# NOTE: FOR DETAILS NOT SHOWN SEE STANDARD PLAN A88A

CALTRANS CONSERVATIVE DESIGN STANDARDS

# FEDERAL/CALIFORNIA STANDARDS

TC TR TRC

(A) Length of Ramp	(1) N	lot required to exceed	d 15 feet, DIB 82 4.3.8 #1
(B) Width of Ramp		50" min	48" min
C Slope of Ramp		7.5% max	8.3% max (1
D X Slope of the Ramp	(2)	1.5% max	2.0% max
E) Top Landing Length		50" mîn	48" min
F) Top Landing Width		50" min	48" min
G Top Landing Slope		1.5% max	2.0% mox
H) Top Landing X Slope	(2)	1.5% max	2.0% max
I) Counter Slope	(3)	1"(V):24"(H) max	5.0% max
J Flow Line Slope	(2)	1.5% max	2.0% max
K Detactable Warning Su	irface	See Standard Plan A8	8A and DIB 82
L) Flare (Right/Left)		9.0% max at curb	10.0% max at curb

(1) Curb ramps shall have a running slope not steeper than 8.3% maximum but shall not require the ramp length to exceed 15 feet.
 (2) At pedestrian crossings without yield or stop control and at midblock pedestrian street crossings, the cross slope of curb ramps and landings shall be permitted to equal the street or highway grade. See DIB 82 4.3.8 item No. 8.
 (3) Counter slope shall not exceed 1"(V):24"(H) or 4.2% where a gutter pan is present. If no gutter pan is present counter slope shall not exceed 5.0% max.

(Gutter FL/LOL)

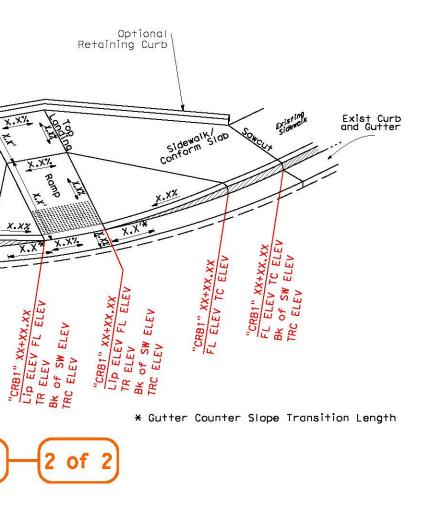
Exist Curb and Gutter

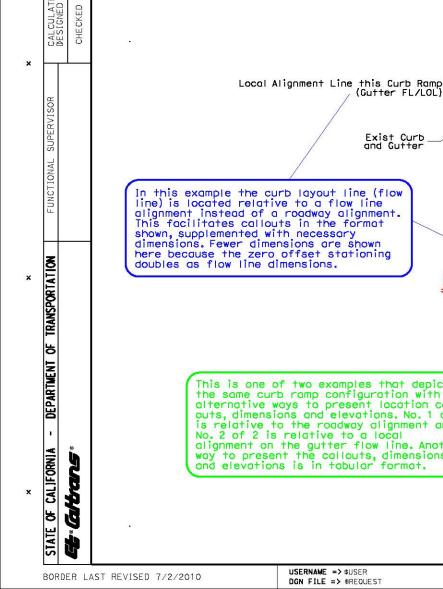
# ABBRE VIATIONS: DWS DETECTABLE WARNING SURFACE TC TOP OF CURB TR TOP OF RAMP TOP OF RETAINING CURB

Items A through L graphically depict standards that are all required for compliance with the 2010 Americans with Disabilities Act or draft Public Rights of Way Accessibility Guidelines.

For each curb ramp location that is not designed to meet the conservative design standards include one (EA) quantity of bid item Pre/Post Construction Surveys in the bid item list. The intent of this bid item is to verify that construction complies with allowable variations from the dimensions and slopes above on the contract place required by CPP 14.1 shown on the contract plans required by CPB 14-1.

Location call outs and elevations direct the tie-in of the curb ramp to adjacent roadway, sidewalk, and grade at a project specific location with the specific compliant slopes and dimensions shown. Removal and replacement of any existing pavement or other surfacing necessary to tie-in to the proposed curb ramp is not shown in this example.





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cilitates callouts in the format supplemented with necessary ons. Fewer dimensions are shown cause the zero offset stationing as flow line dimensions.	EV JALE	EL EL		<u>x.xz</u>
÷ ۱۳ ق	"CRB1" TRC EL	"CRB1" XX+X FL ELEV TC CRB1" XX+XX.XY IP ELEV FL ELL R ELEV C OF SW ELEV C ELEV	1" XX+XX.XX ELEV FL ELEV SW ELEV LEV	TC ELEV
This is one of two examples that depict the same curb ramp configuration with alternative ways to present location call outs, dimensions and elevations. No. 1 of 2 is relative to the roadway alignment and No. 2 of 2 is relative to a local alignment on the gutter flow line. Another way to present the callouts, dimensions				

CT-ING A

TC ELEV

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CURB RAMP DESIGN STANDARDS, TWO CASE A RAMPS LOCAL FLOW LINE ALIGNMENT AND CALLOUTS

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"CRB1" XX+XX.XX _ EL ELEV TC ELEV 3k OF SW ELEV

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OF SW ELEV

XXI.

X X X

"CRB1" XX+XX.XX FL ELEV TC ELEV

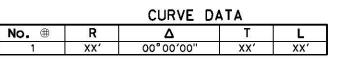
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"CRB1"

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REG	ISTERED C	IVIL ENGIN	EER DATE	ROFESSIC	ENGINE
PLA	NS APPROV	AL DATE		хр	
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#### GENERAL

These examples are in no way the only solution for erosion control issues on a project. There are many ways to put together erosion control plans and tables together.

Use following 3 pages for instructions on how to fill out individual tables.

EROSION CONTROL TYPE 'X' TABLE: Include in all projects with erosion control work shown by Type. Add additional tables for each Erosion Control Type used. If only one EROSION CONTROL TYPE is used, label the table EROSION CONTROL.

SEQUENCE: Identify the application steps.

ITEM: Identify the applicable bid items. The item description must match the Engineers Estimate, except units are not necessary.

MATERIAL: Identify the applicable materials for each bid item. Refer to the specifications for applicable requirements and options.

MATERIAL TYPE: Identify the applicable type for each material. If there are no applicable types, then leave blank. Refer to the specifications for applicable requirements and options.

APPLICATION RATE: Identify the site specific application rate for each item or material. Rates should be shown in a quantity-per-area format appropriate for the material and bid item unit of measure (i.e. CY/1000 SQFT, CY/ACRE, TON/ACRE, or LB/ACRE). If application rate is not applicable, then leave blank.

DEPTH: Identify the depth in inches for Incorporate Materials. If depth is not applicable, then leave blank or eliminate column.

All items, materials, material types, application rates, and incorporation depths listed for an EC type must be applicable throughout the entire area designated for the EC type.

<u>SEED MIX TABLE:</u> This table must be included when seed is listed as an EC material.

SEED MIX: Identify each seed mix. List botanical and common name for each seed. For special instructions, add a * to the bottom of the table and at the corresponding botanical seed name.

<u>CALIFORNIA SOURCED SEED</u>: Do not specify California sourced seed on ALL projects. Use is pursuant to project-specific requirements and/or regulatory permits.

PERCENT GERMINATION: Percent germination shown may be 10 percent less than the published rates. Show as a whole number without "%" symbol.

POUNDS PURE LIVE SEED PER ACRE: Show pounds up to one decimal place.

If a project has multiple seed mixes, it is an option to combine tables by adding this column.

If a project has one seed mix delete SEED column.

Legend Text LV=Is_SCHEDULE-LEGEND FT=3, TX=8.75, WT=2, CO=0 Legend Text LV=Is_SCHEDULE-LEGEND FT=3, TX=7, WT=1, CO=0

Cell name: ECFRCS or ECITEM

STAND-ALONE EROSION CONTROL ITEM TABLE: This table is used for erosion control items that are not associated with an EC Type, such as Fiber Rolls and Compost Sock. The item may be at a separate location than an EC Type, the item may not be applicable throughout an entire area designated for an EC Type, or there may be other reasons not to include in an EC Type.

# FIBER ROLLS

SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	REMARI
IN EC TYPE 1 AREAS, INSTALL FIBER ROLLS AFTER RECP (NETTING) AND BEFORE HYDROSEED	FIBER ROLLS	FIBER ROLL	0" TO 0" Dia	TYPE FIBER RO INSTALLA

Cell name: ECT1

# **EROSION CONTROL TYPE 1**

SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERI. TYPE
STEP 1	COMPOST	COMPOST	MEDIUM
STEP 2	ROLLED EROSION CONTROL PRODUCT (NETTING)	NETTING	TYPE A
STEP 3	HYDROSEED	SEED	MIX 1
STEP 5	HIDROSEED	FIBER	WOOD
STEP 4	HYDROMULCH	FIBER	WOOD
STEP 4	H DROMOLCH	TACKIFIER	PSYLLIU

# **EROSION CONTROL TYPE 2**

SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	APPLICATION RATE	DE
STEP 1	COMPOST	COMPOST	FINE	000 CY/ACRE	
STEP 2	INCORPORATE MATERIALS	-	-	-	
STEP 3	FIBER ROLLS	FIBER ROLL	0" TO 0" Dia	-	
STEP 4	HYDROSEED	SEED	MIX 2	000 LB/ACRE	
SIEF 4	HIDROSEED	FIBER	WOOD	000 LB/ACRE	
STEP 5	HYDROMULCH	FIBER	WOOD	0,000 LB/ACRE	
5121 5	TT DROMOLCH	TACKIFIER	PSYLLIUM	000 LB/ACRE	

		SEED MIX	Cell name: ECSM OR ECSMM
SEED	BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
	ACHILLEA MILLEFOLIUM (WHITE YARROW)	00	0.0
-	BROMUS CARINATUS (CALIFORNIA BROME)	00	00
MIX	ESCHSCHOLZIA CALIFORNICA (CALIFORNIA POPPY)	00	00
	VULPIA MICROSTACHYS (SMALL FESCUE)	00	00
N	HORDEUM BRACHYANTHERUM (MEADOW BARLEY)	00	00
XIW	STIPA PULCHRA (PURPLE NEEDLEGRASS)	00	00
	*VULPIA MICROSTACHYS (SMALL FESCUE)	00	0.0

* Insert Special Instruction for Botanical Seed Name

EROSION CONTROL LEGEND BASIC INFORMATION

BORDER LAST REVISED 9/8/2021

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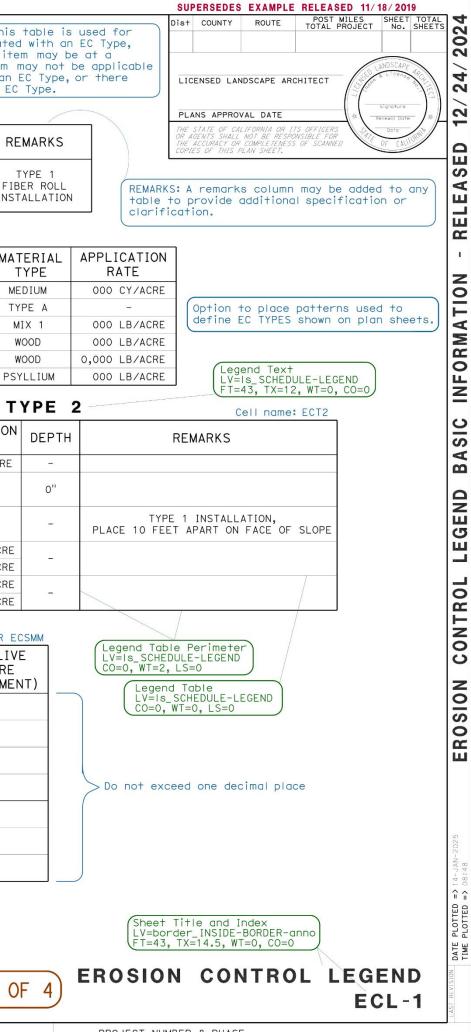
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RELATIVE BORDER SCALE IS IN INCHES



#### GENERAL

This example illustrates basic erosion control legend information and describes the specifications to be entered by the Landscape Architect.

### This example shows items used for sequence tables with erosion control "TYPES."

ITEMS

The item description should match the Engineer's Estimate item description.

Price of bid item will include all materials shown. For example, if "SEED" and "FIBER" are shown adjacent to HYDROSEED, then the seed and fiber are paid for as part of the "Hydroseed" item. An exception is the "Incorporate Materials" bid item which pays for the incorporation only. Any materials incorporated are paid for as separate bid items.

Notice that units used in the application rates may differ from the unit of measure for the item on the bid item list. Conversions are made on the erosion control quantity sheets so that units of measure for the quantities match the bid item list. The application rates shown are examples only, use project specific application rates.

APPLICATION RATE

## STRAW ITEM

MATERIAL: Enter "STRAW" for material.

MATERIAL TYPE: For straw identify type. Enter "WHEAT," "RICE," "BARLEY," or combination of types with percentages required such as "50% WHEAT 50% BARLEY.

APPLICATION RATE: Show in TON/ACRE format.

SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	APPLICATION RATE
STEP X	STRAW	STRAW	WHEAT	00 TON/ACRE

SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	APPLICATION RATE
STEP X	STRAW	STRAW	00% WHEAT 00% BARLEY	00 TON/ACRE

### DRY SEED ITEM

MATERIAL: Enter "SEED" for material.

MATERIAL TYPE: Identify Mix number shown in Seed Mix table.

APPLICATION RATE: Show in LB/ACRE format. Quantity of LB must match the sum of Pure Live Seed in the Seed Mix table.

SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	APPLICATION RATE
STEP X	DRY SEED	SEED	MIX 3	OO LB/ACRE

DRILL SEED ITEM					
MATERIAL: Enter	'SEED" for material	L.		Legend Table Per	rimeter
MATERIAL TYPE: IC	x table.	Legend Table Per LV=Is_SCHEDULE-I LS=0, CO=0, WT=2	LEGEND		
	: Show in LB/ACRE ds Pure Live Seed			Legend Table LV=Is_SCHEDULE LS=0, CO=0, WT=	
SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	APPLICATION RATE	
STEP X	DRILL SEED	SEED	MIX 3	00 LB/ACRE	1

#### HYDROSEED AND HYDROMULCH ITEMS

MATERIAL: Hydroseed item will always include a "SEED" row. Hydromulch item will never include a "SEED" row. Materials for both may include "FIBER," "TACKIFIER," "FERTILIZER," and other materials.

MATERIAL TYPE (SEED): Enter mix information.

MATERIAL TYPE (FIBER): If fiber is used, identify the type. Enter "WOOD," "CELLULOSE," "ALTERNATE," or combination of types with percentages required such as "50% WOOD 50% CELLULOSE."

MATERIAL TYPE (TACKIFIER): Enter "POLYMERIC EMULSION BLEND" or "PLANT BASED." If more specific preference for plant based then enter "GUAR," "PSYLLIUM," or "STARCH."

MATERIAL TYPE (FERTILIZER): If fertilizer is used, identify the type. Enter "ORGANIC" or other preferred fertilizer type.

APPLICATION RATE: Show application rate for each material.

SEQUENCE	ITEM DESCRIPTION	MATERI
	HYDROSEED	SEED
STEP X	HIDROSEED	FIBER

QUENCE	ITEM DESCRIPTION	MATERI
		FIBER
STEP X	HYDROMULCH	TACKIFI
		FERTILIZ
		DESCRIPTION

INDIVIDUAL	COMPONE
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LV=border_INSI	DE-BORDER-anno
FT=43, TX=14.5,	WT=0, CO=0

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DEPARTMENT OF TRANSPORTATION

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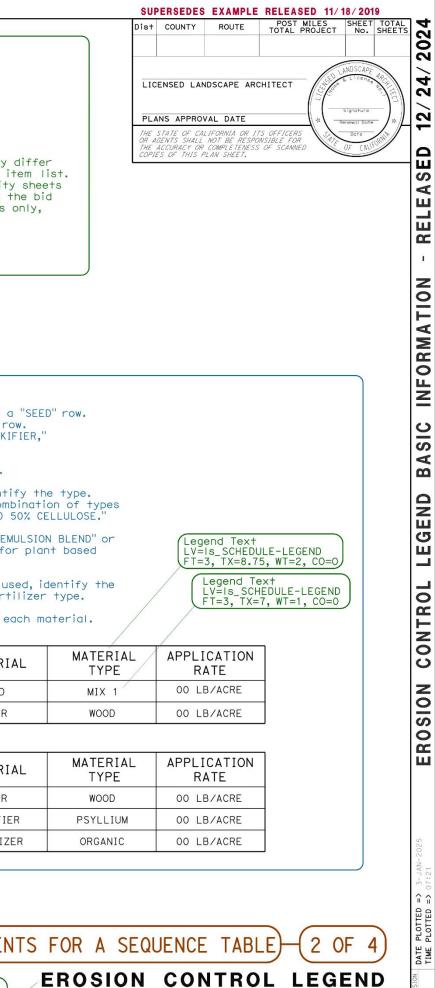
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RELATIVE BORDER SCALE

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#### FIBER ROLLS ITEM

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Fiber rolls may be included in an "EROSION CONTROL TYPE" table or as a stand-alone table. Each example is shown below.

MATERIAL: If specific fiber roll fill material is required specify "RICE STRAW FIBER ROLL," "WHEAT STRAW FIBER ROLL," "WOOD EXCELSIOR FIBER ROLL," or "COCONUT FIBER ROLL." If the contractor may choose the fiber roll type use "FIBER ROLL."

MATERIAL TYPE: Specify the size of fiber roll required. Select "8" to 10" Dia" or "10" to 12" Dia."

APPLICATION RATE: Leave this blank, it is not applicable.

REMARKS: When using fiber rolls add a column for "REMARKS." Include information necessary for fiber roll installation. Specify "TYPE 1" or "TYPE 2" installation type.



## FIBER ROLLS

SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	REMARKS
IN EC AREAS FIBER ROLLS MUST BE INSTALLED BEFORE HYDROSEED	FIBER ROLLS	WHEAT STRAW FIBER ROLL	0" to 0" Dia	TYPE 1 FIBER ROLL INSTALLATION

SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	APPLICATION RATE	REMARKS
STEP X	FIBER ROLLS	WHEAT STRAW FIBER ROLL	0" to 0" Dia	-	TYPE 1 FIBER ROLL INSTALLATION

#### COMPOST SOCK ITEM

Compost socks may be included in an "EROSION CONTROL TYPE" table or as a stand-alone table. Each example is shown below.

MATERIAL: Leave blank, this is not applicable.

MATERIAL TYPE: Specify 8" or 12" size and if necessary the type of mesh tube desired, possible options include "COTTON," "JUTE," "SISAL," "BURLAP," "WOOD-BASED YARN," or "COIR."

APPLICATION RATE: Leave blank, this is not applicable.

REMARKS: When using compost socks add a column for "REMARKS." Include information necessary for compost sock installation.

COMPOST SOCK

COMPOST SOCK							
SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	REMARKS			
IN EC AREAS COMPOST SOCK MUST BE INSTALLED AFTER RECP (NETTING)	COMPOST SOCK	-	0" Dia JUTE				

SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	APPLICATION RATE	REMARKS
STEP X	COMPOST SOCK	-	0" Dia JUTE	-	

### COMPOST ITEM

MATERIAL: Materials for Compost item may include both "COMPOST" and "SEED." If "SEED" is shown adjacent to compost, seed is paid for as part of the "COMPOST" item. If seed is used, sp Compost Item and add seed mater application rate.

MATERIAL TYPE: Enter "FINE," "MEDIUM," or "COURSE."

APPLICATION RATE: Show rate for in volume-per-area format, not by depth.

1	se on narrow	g compost and see areas, small area arate seed and col	s or relatively f	lat slopes.	Legend Text LV=Is_SCHEDUL FT=3, TX=7, WT	E-LEGEND
	SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	APPLICATION RATE	
	STED V	COMPOST	COMPOST	F I NE	00 LB/ACRE	
	STEP X	COMPOST	SEED	MIX	00 LB/ACRE	

	SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	APPLICATION RATE
	STEP X	COMPOST	COMPOST	MEDIUM	00 LB/ACRE
_					

INCORPORATE MATERIALS ITEM Incorporate Materials is used to mix topsoil, duff, compost, straw, or mulch to the depth specified.

MATERIAL, MATERIAL TYPE, AND APPLICATION RATE: Leave these blank since they are not applicable. "INCORPORATE MATERIALS" bid item includes payment for incorporation work only. The materials are paid for separately.

DEPTH: When Incorporate Materials is used add a column for "DEPTH." Enter the depth of Incorporation in inches. Note that incorporation methods may differ per standard specifications.

SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	APPLICATION RATE	DEPTH
STEP X	INCORPORATE MATERIALS	-	-	_	0"

# INDIVIDUAL COMPONENTS FOR A SEQUENCE TABLE 3 OF 4 **EROSION CONTROL LEGEND** Sheet Title and Index LV=border_INSIDE-BORDER-anno FT=43, TX=14.5, WT=0, CO=0 ECL-3

BORDER LAST REVISED 9/8/2021

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RELATIVE BORDER SCALE

Legend Table Perimeter

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Legend Table LV=Is_SCHEDULE-LEGEND LS=0, WT=0, CO=0

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ROUTE

POST MILES TOTAL PROJECT No. SHEETS Signatur

SUPERSEDES EXAMPLE RELEASED 11/18/2019

Legend Text

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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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Renewal Date

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BONDED	FIBER	MATRIX	(BFM)	ITEM	OR

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## FIBER REINFORCED MATRIX (FRM) ITEM

MATERIAL: BFM and FRM items will always include "FIBER" and "TACKIFIER" that is bonded together. Materials may also include "SEED" and "FERTILIZER."

MATERIAL TYPE: The specification for BFM and FRM have no options, therefore leave entry blank. For seed, identify the Mix number shown in the Seed Mix table, if applicable.

APPLICATION RATE: Show the application rates for each material. Per specification, fiber and tackifier are combined by the manufacturer, so the application rate is for fiber and tackifier combined. See manufacturer for recommended rates.

SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	APPLICATION RATE
STEP X	BONDED FIBER	FIBER AND TACKIFIER	-	00 LB/ACRE
	MATRIX	SEED	MIX	00 LB/ACRE

SEQUENCE	ITEM DESCRIPTION	MATERIAL	MATERIAL TYPE	APPLICATION RATE
STEP X	FIBER REINFORCED	FIBER AND TACKIFIER	-	00 LB/ACRE
STEP X	MATRIX	SEED	MIX	00 LB/ACRE

APPLICATION RATE: Leave blank, this is not applicable.         APPLICATION RATE: Leave blank, this is not applicable.         SEQUENCE       ITEM DESCRIPTION       MATERIAL       APPLICATION RATE         STEP X       ROLLED EROSION (NETTING)       NETTING       TYPE A       -	MATERIAL: Match the type parentheses. Enter "JUTE TRM." MATERIAL TYPE: Identify t planket, or TRM. Enter "T eave blank for jute mes	he type when material YPE A," "TYPE B," or "T) h.	is netting, YPE C."			Legend Table Perimeter LV=Is_SCHEDULE-LEGEND LS=0, WT=2, CO=0
STEP X CONTROL PRODUCT NETTING TYPE A -		ITEM				LV=IS_SCHEDULE-LEGEND
	STEP X		NETTING	TYPE A	-	

Legend Text LV=Is_SCHEDULE-LEGEND FT=3, TX=8.75, WT=2, CO=0

Legend	Tex+		
LV=Is_S	SCHEDU	LE-LE(	GEND
FT=3, T	X=7, W	T=1, C	(0=0)

# SUPERSEDES EXAMPLE RELEASED 11/18/2019

Dis†	COUNTY	ROUTE		MILES PROJECT	SHEET No.	SHEETS	P C
							000
LIC	ENSED LAN	IDSCAPE AR	CHITECT		ANDSCAPE	ARCHITEC	VVC
PLA	NS APPRO	AL DATE		*(	Signature enewal Date	_)*	10/
OR A	GENTS SHALL	LIFORNIA OR I NOT BE RESP COMPLETENES PLAN SHEET.	ONSIBLE FOR	7 ATE	Date OF CALL		2

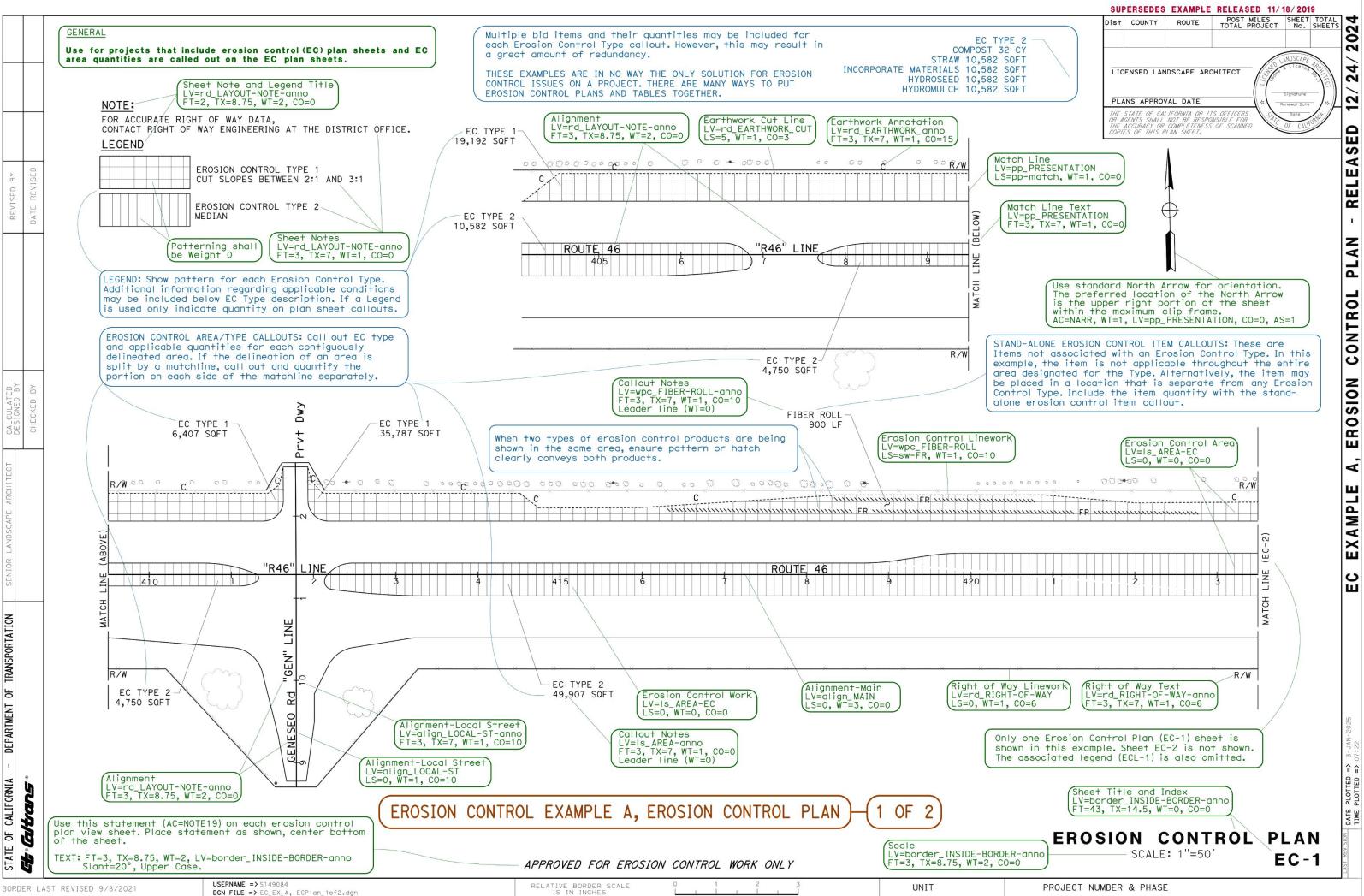
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DATE PLOTTED = TIME PLOTTED =

4

# NDIVIDUAL COMPONENTS FOR A SEQUENCE TABLE 4 OF 4 **EROSION CONTROL LEGEND** ECL-4

PROJECT NUMBER & PHASE



## GENERAL

### Use this Erosion Control Quantity (ECQ) Sheet for projects where area quantities are called out on the EC plan sheets.

For information on table line and text formatting not shown on this sheet see the Plans Preparation Manual Section 2-2.19 "Summary of Quantities."

EROSION CONTROL QUANTITY TABLE: This table shows the specific bid items and associated quantities for each erosion control type and items not associated with a type.

SHEET NUMBER: Specific locations are not necessary in this table since the locations and associated quantities have been shown on the Erosion Control Plan (EC) sheets.

DESCRIPTION: List each Erosion Control Type and any items not associated with a Type.

BID ITEM DESCRIPTION: Identify all applicable bid items for all the erosion control types listed and items not associated with a type. The bid item description and unit of measure must match the Engineers Estimate. Within each bid item column enter quantities adjacent to the applicable erosion control type or item. At the bottom of the bid item column provide the total for the bid item.

Bid Item descriptions and unit of measure must match the Engineers Estimate. Add or delete columns as required.

	Cell name:		) SIC	ON CO	NTRO	L QUA	NTITIE	S	)	Quantity LV=Is_QT FT=43, T	-Y-
NOTE: This example table shows	SHEET NUMBER	DESCRIPTION	COMPOST	STRAW	MATERIALS	ROLLED EROSION CONTROL PRODUCT (NETTING)	ADROSEED	HYDROMULCH S&L	FIBER ROLLS	Quantity LV=Is_OT FT=3, TX Quant LV=Is LS=0, Quant LV=Is LS=0,	y T TY- <=8 -Q -CC
quantities for multiple plan			10.22	JULI	JULI			5.2 S. 824 A 41.2		(Quant	
sheets, however, plan sheet		EC TYPE 1	183			61,386		61,386		LV=Is	_Q
EC-2 is not included in the	EC-1	EC TYPE 2	209	69,989	69,989		69,989	69,989		(FT=3,	
Example 'A' series.		FIBER ROLLS					2 2		900	Quant	1.4
		EC TYPE 1	61			20,500	20,500	20,500		LV=Is	
	EC-2	EC TYPE 2	73	24,300	24,300		24,300	24,300		(LS=0,	W
		FIBER ROLLS							1,100		
		TOTAL	526	94,289	94,289	81,886	176,175	176,175	2,000		

EROSION CONTROL EXAMPLE A, EROSION CONTROL QUANTITY SHEET)-(2 OF 2

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BORDER LAST REVISED 9/8/2021

TRANSPORTATION

DEPARTMENT OF

CALIFORNIA

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Gitrans

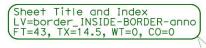
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> USERNAME => S149084 DGN FILE => EC_EX_A, 0+ys_2of2.dgn

UNIT

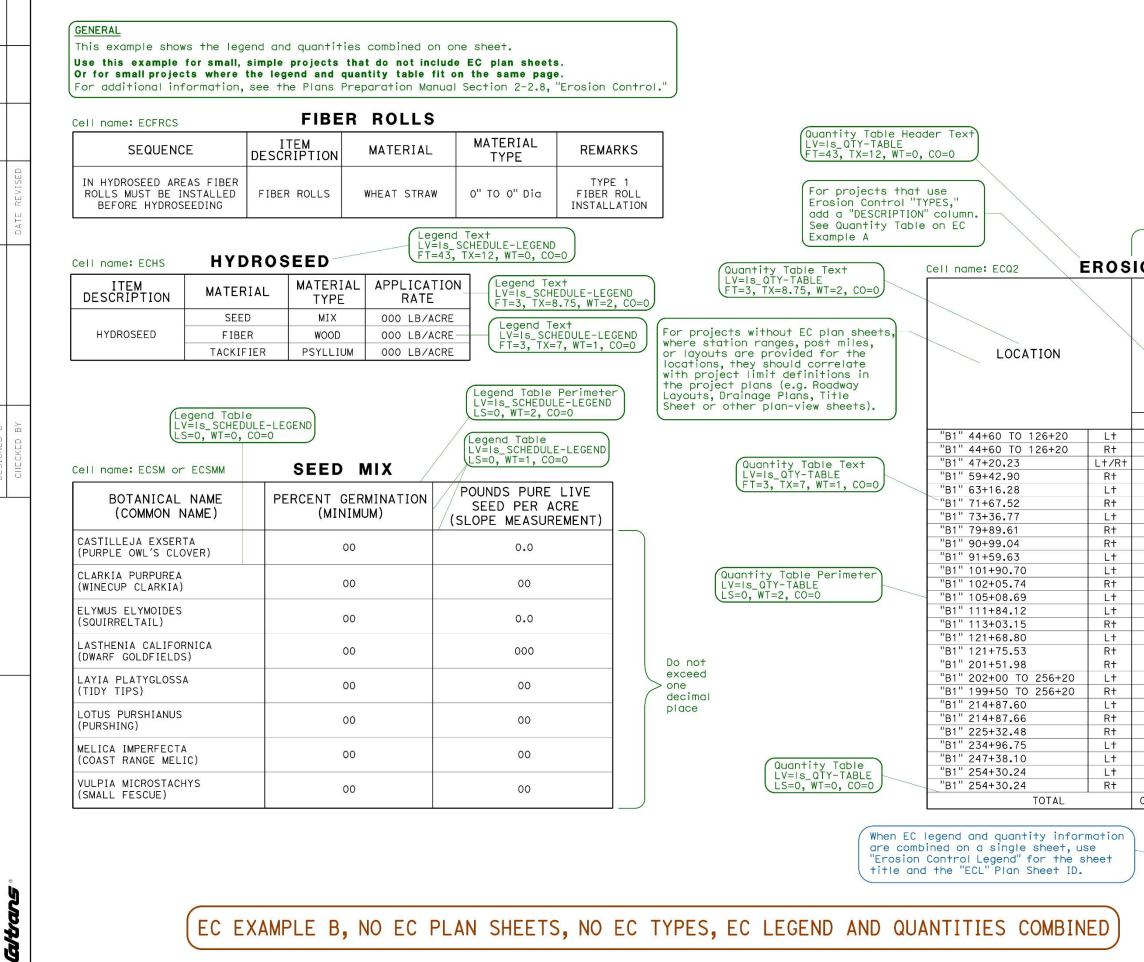
SUP	PERSEDES	EXAMPLE	RELEA	SED 11/1	8/201	9	
Dis†	COUNTY	ROUTE		MILES PROJECT	SHEET No.	TOTAL SHEETS	24
	ENSED LAN	DSCAPE ARC	HITECT	- 6	NDSCAPE License	TRCH I	4/202
	INS APPROV			_/ _/	Signature enewal Date	- X	12/2
OR A	GENTS SHALL	IFORNIA OR II NOT BE RESPO COMPLETENESS LAN SHEET.	NSIBLE FOR	9 ATE	Dote OF CALL	SELLE	





# EROSION CONTROL QUANTITIES ECQ-1

VISION DATE PLOTTED => 3-JAN-20 TIME PLOTTED => 07:22



EC EXAMPLE B, NO EC PLAN SHEETS, NO EC TYPES, EC LEGEND AND QUANTITIES COMBINED

BORDER LAST REVISED 9/8/2021

DEPARTMENT OF TRANSPORTATION

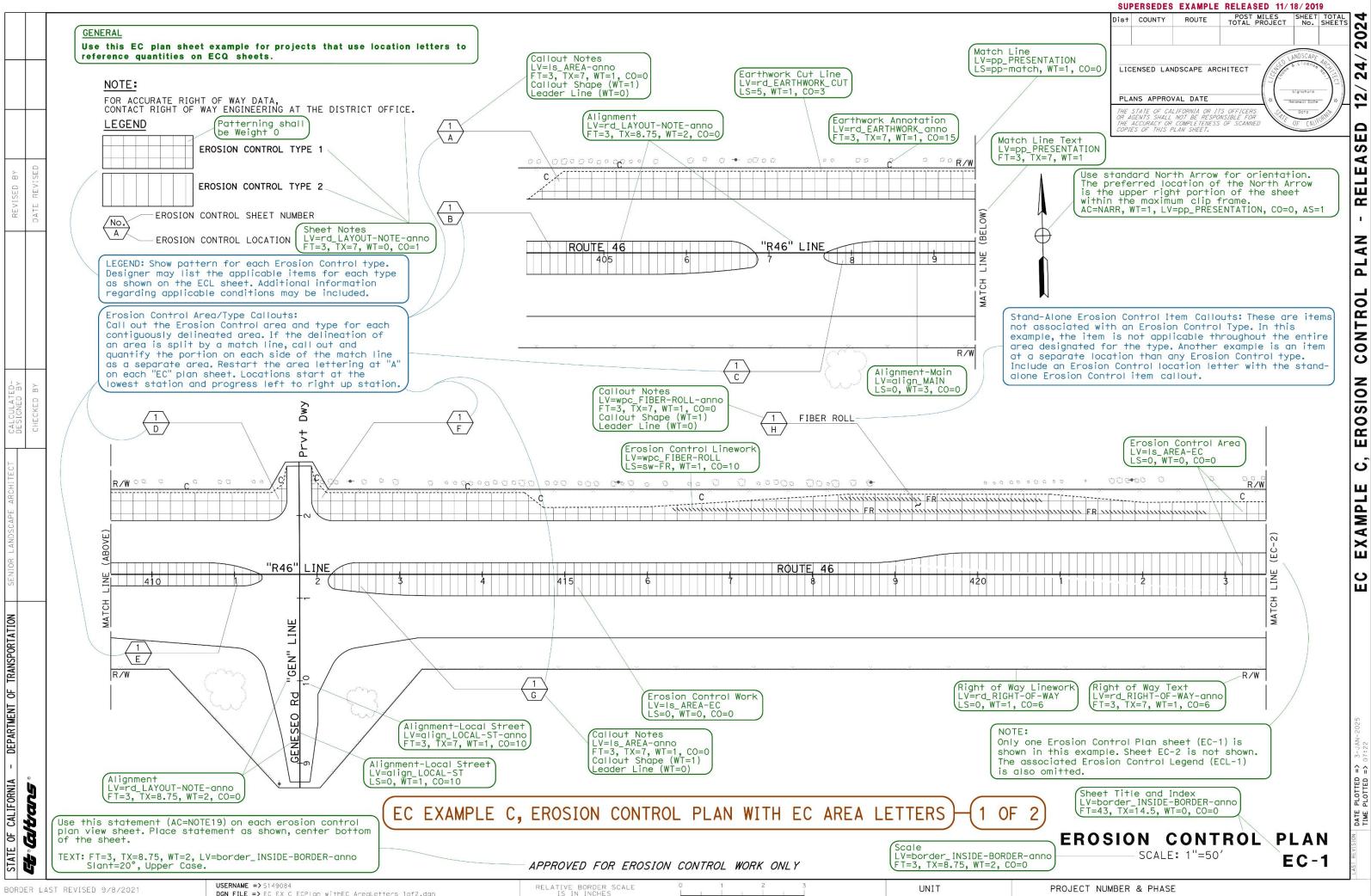
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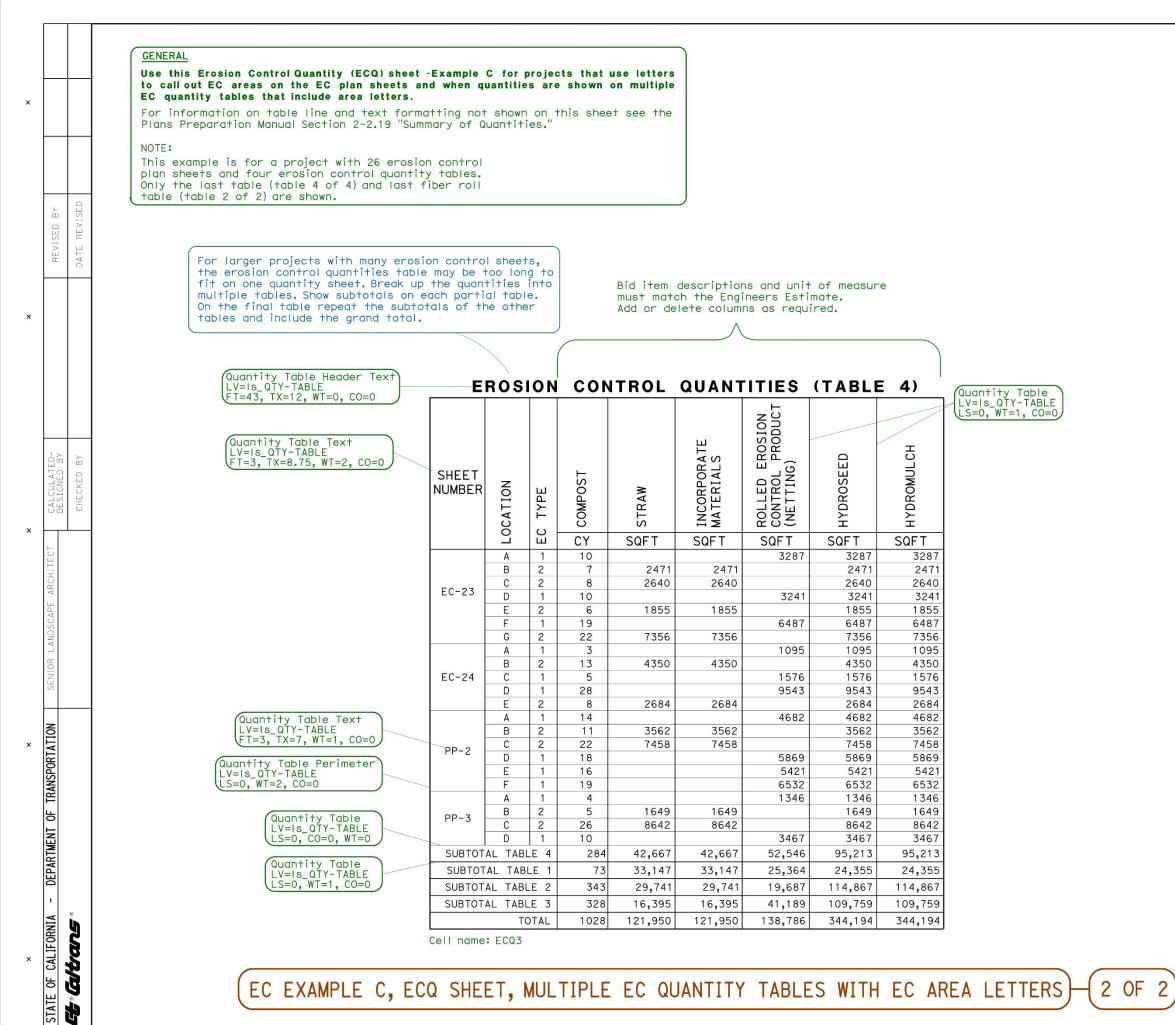
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STATE

		SUP	ERSEDES	EXAMPLE	RELEASED 11		
		Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TO No. SH	EETS
		LIC	ENSED LAN	DSCAPE AR		LANDSCAPE ARC	
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			NS APPRO		47 -	Signature Renewal Date	Ъ
		THE . OR AU THE	STATE OF CAL GENTS SHALL ACCURACY OR	LIFORNIA OR I. NOT BE RESPO COMPLETENESS PLAN SHEET.	TS OFFICERS	OF CALIFORNIA	
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				ΛĿ	uantity Table V=ls_QTY-TAB S=0, WT=1, CC	LE )=0	
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		/	/ /				
Q	ROLLS						
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qΥb	FIBER	7					
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	00		10.190.01 /// // // // // ////		TOP OF HEAD	WALLS	
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	00						
	00	DRIVEW	AY ENTR	ANCE AT	TOP OF HEAD	WALLS	
	00	BLACK	ROAD AT	TOP OF	HEADWALLS		
0,000,000	0,000			1050 (52)	iner Binneeo		

Sheet Title and Index LV=border_INSIDE-BORDER-anno FT=43, TX=14.5, WT=0, CO=0 **EROSION CONTROL LEGEND** ECL-1 î î **PLOTTED** DATE





BORDER LAST REVISED 9/8/2021

.dgn RELATIVE BORDER SCALE

2 3

UNIT

### SUPERSEDES EXAMPLE RELEASED 11/18/2019

Dis†	COUNTY	ROUTE		PROJECT	SHEET No.	SHEETS
LIC	ENSED LAN	DSCAPE AR	CHITECT		ANDSCAPE & License	KROLLIECT
PLA	NS APPROV	AL DATE			Signature enewal Date	_)*L
OR A	GENTS SHALL	IFORNIA OR I NOT BE RESPO COMPLETENES. LAN SHEET.	ONSIBLE FOR	R ATE	Dote OF CALLS	

For larger projects consider a separate table for stand-alone items such as fiber rolls and compost sock. Consider separate tables for each route if there are multiple routes, each stage of construction if there are stages, and each direction of roadbed.

SHEET	LOCATION		FIBER ROLLS
NOWDER			LF
EC-2	419+15 TO 421+30	R†	215
EC-3	434+00 TO 436+00	R†	305
EC-6	474+00 TO 474+45	R†	45
EC-6	479+15 TO 479+35	R†	20
EC-7	486+25 TO 488+35	R†	210
EC-10	525+70 TO 526+40	R+	70
EC-10	534+00 TO 535+50	R†	270
EC-11	535+50 TO 536+70	R†	200
EC-15	596+63 TO 597+43	R†	80
EC-19	660+00 TO 661+50	R†	150
EC-20	665+95 TO 667+50	R†	155
EC-20	668+09 TO 668+39	R†	30
EC-26	732+95 TO 735+85	R†	290
	SUBTOTAL TABLE 2		2040
	SUBTOTAL TABLE 1		2375
	TOTAL		4415

# FIBER ROLLS (TABLE 2)

Cell name: ECFRLO



# EROSION CONTROL QUANTITIES ECQ-1

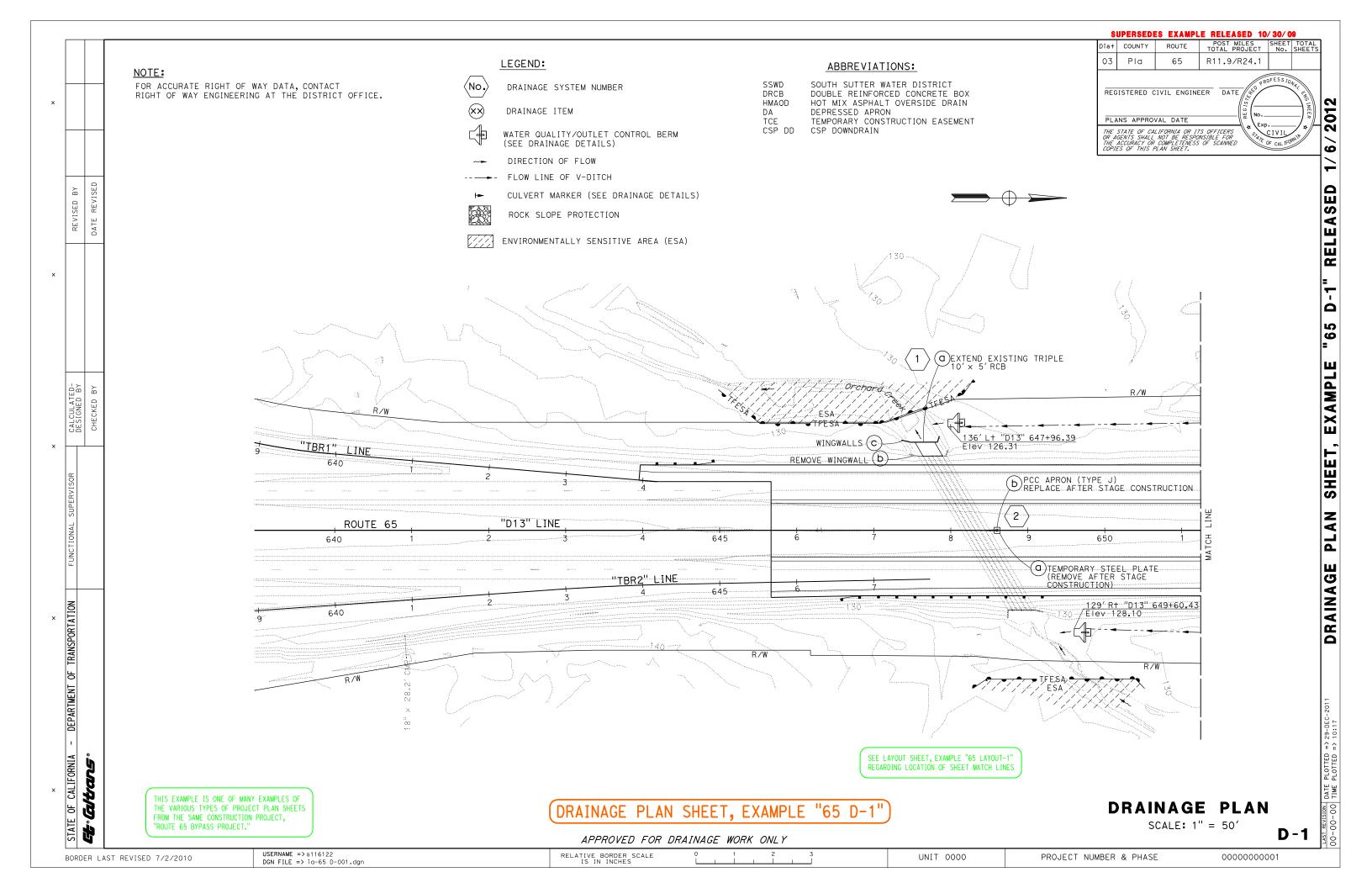
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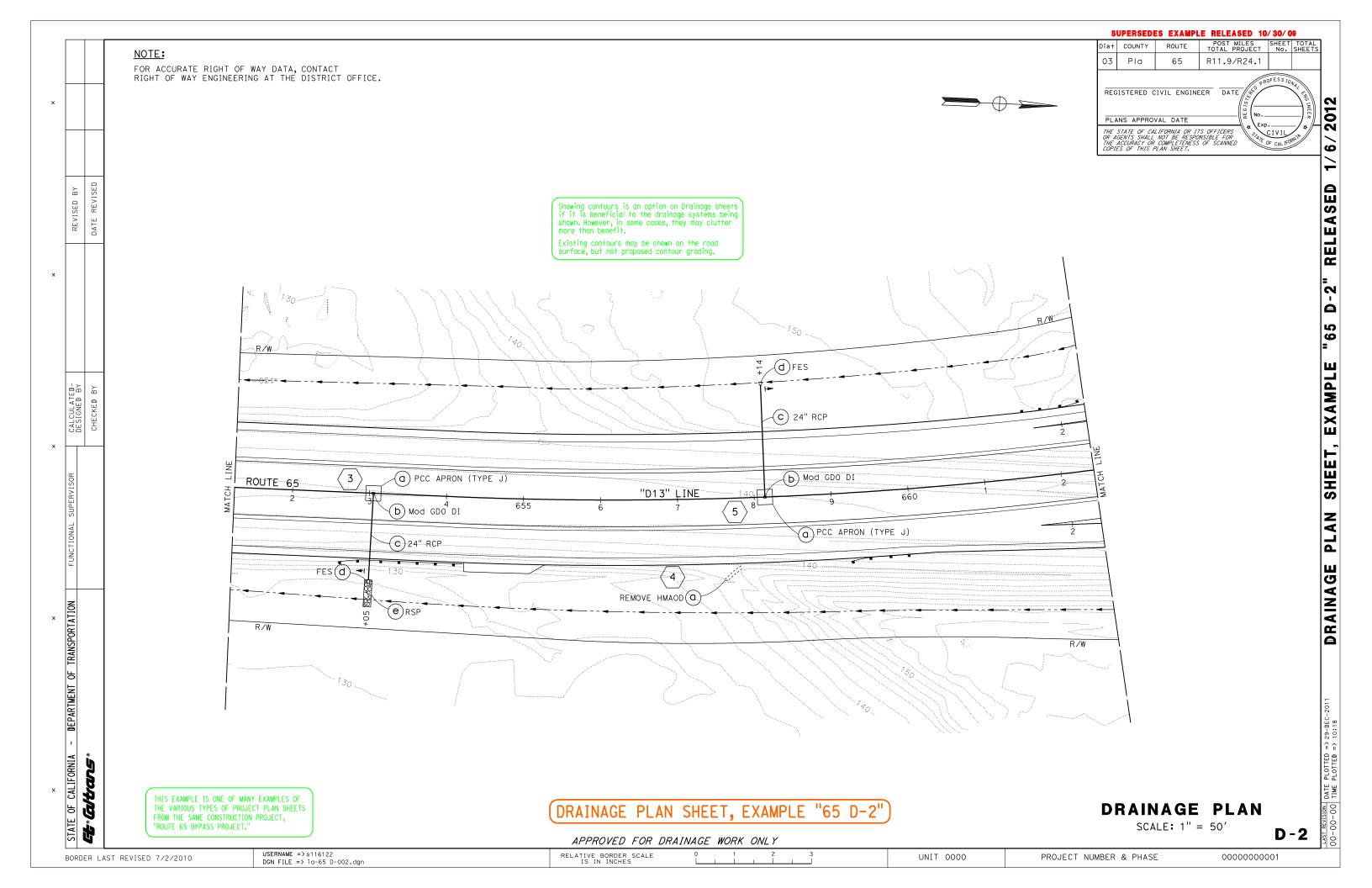
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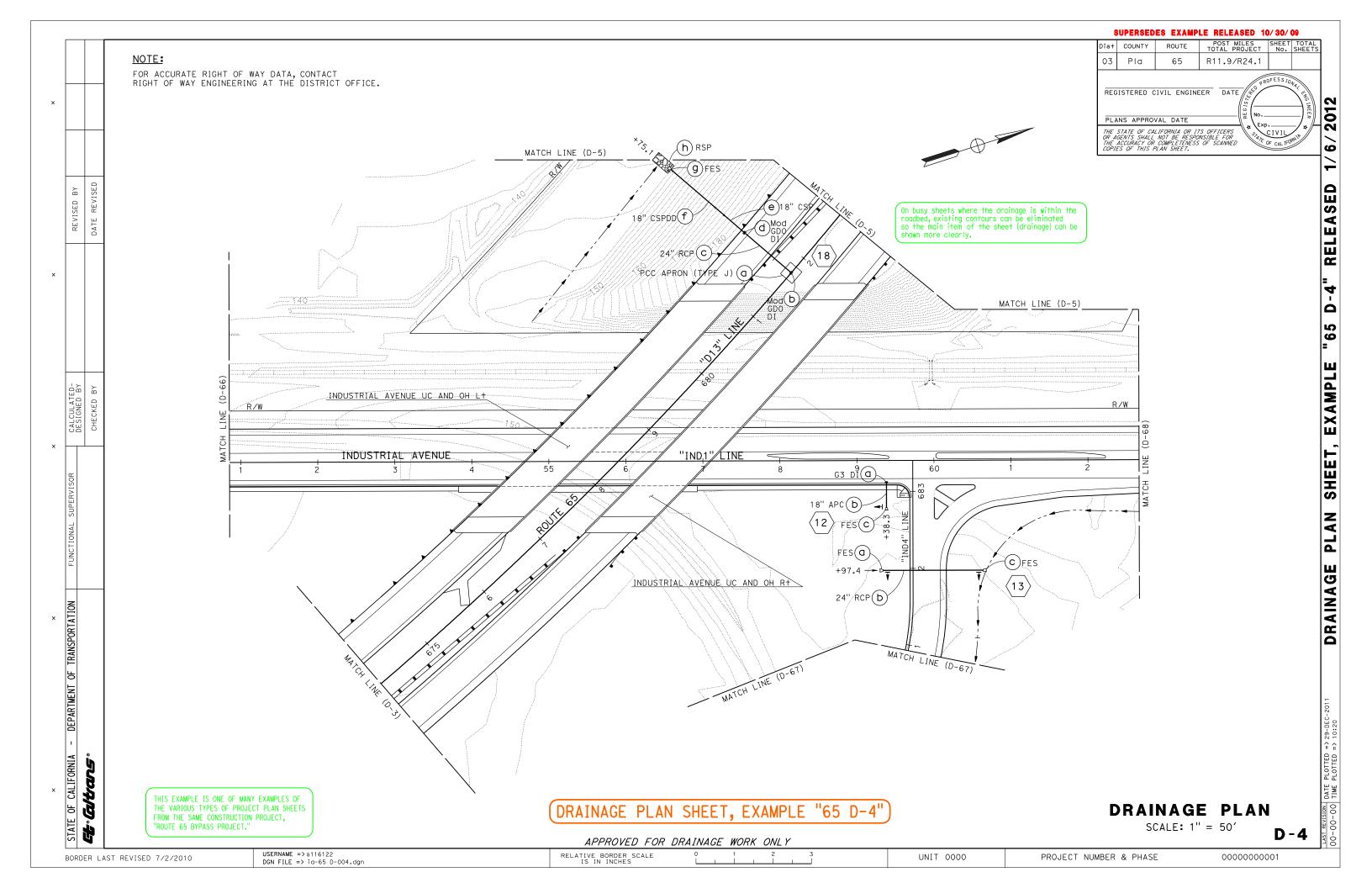
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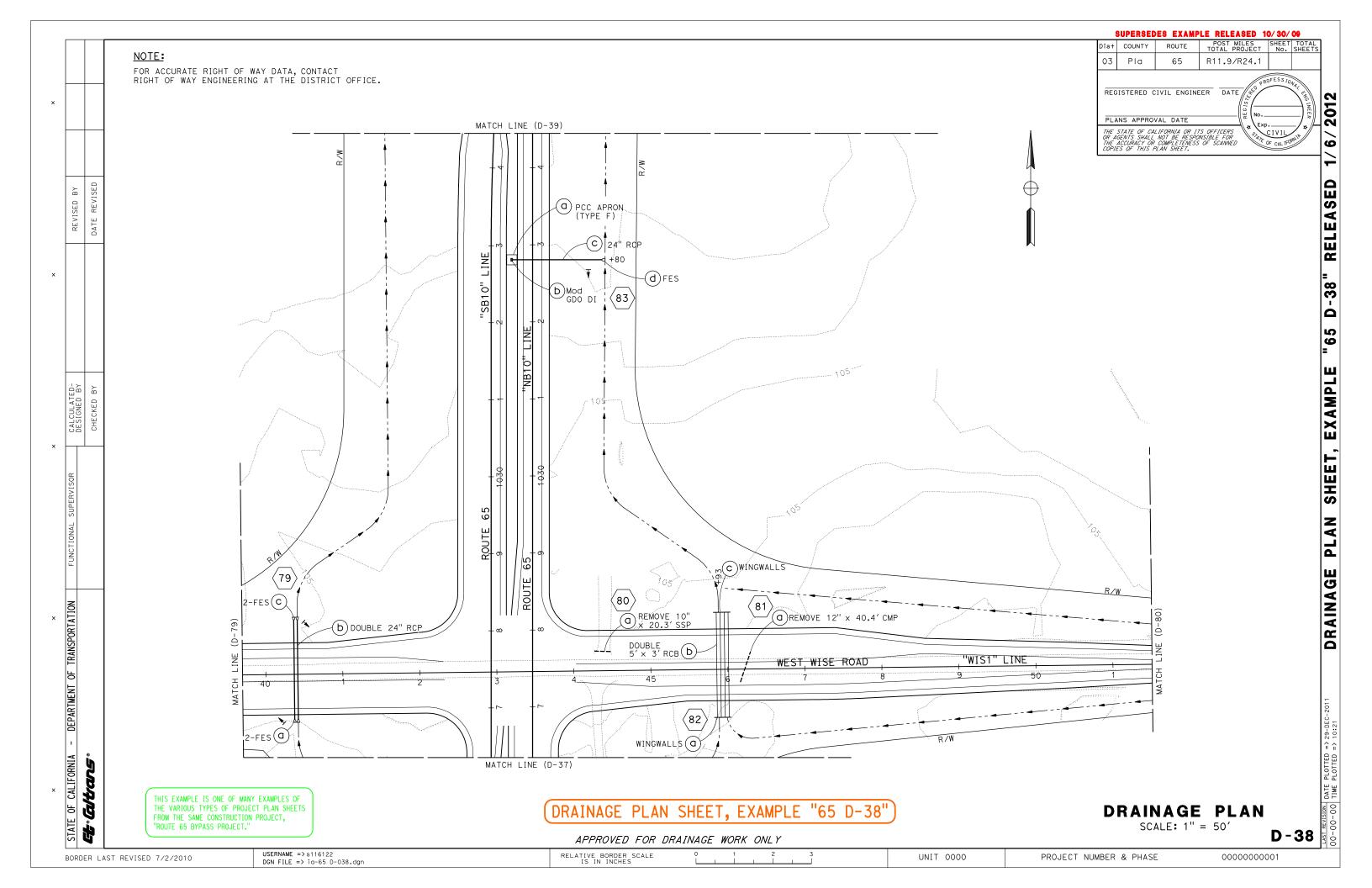
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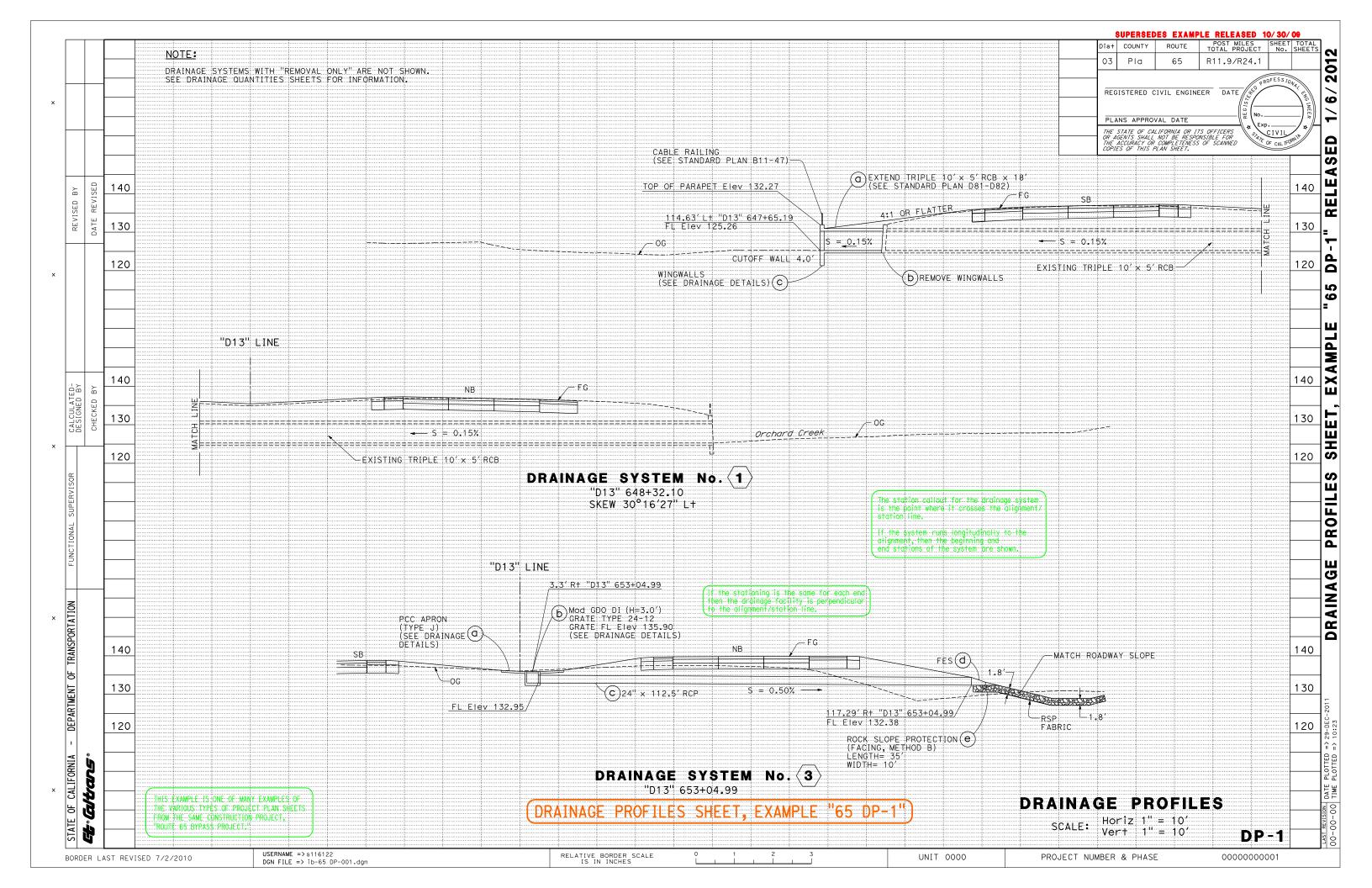
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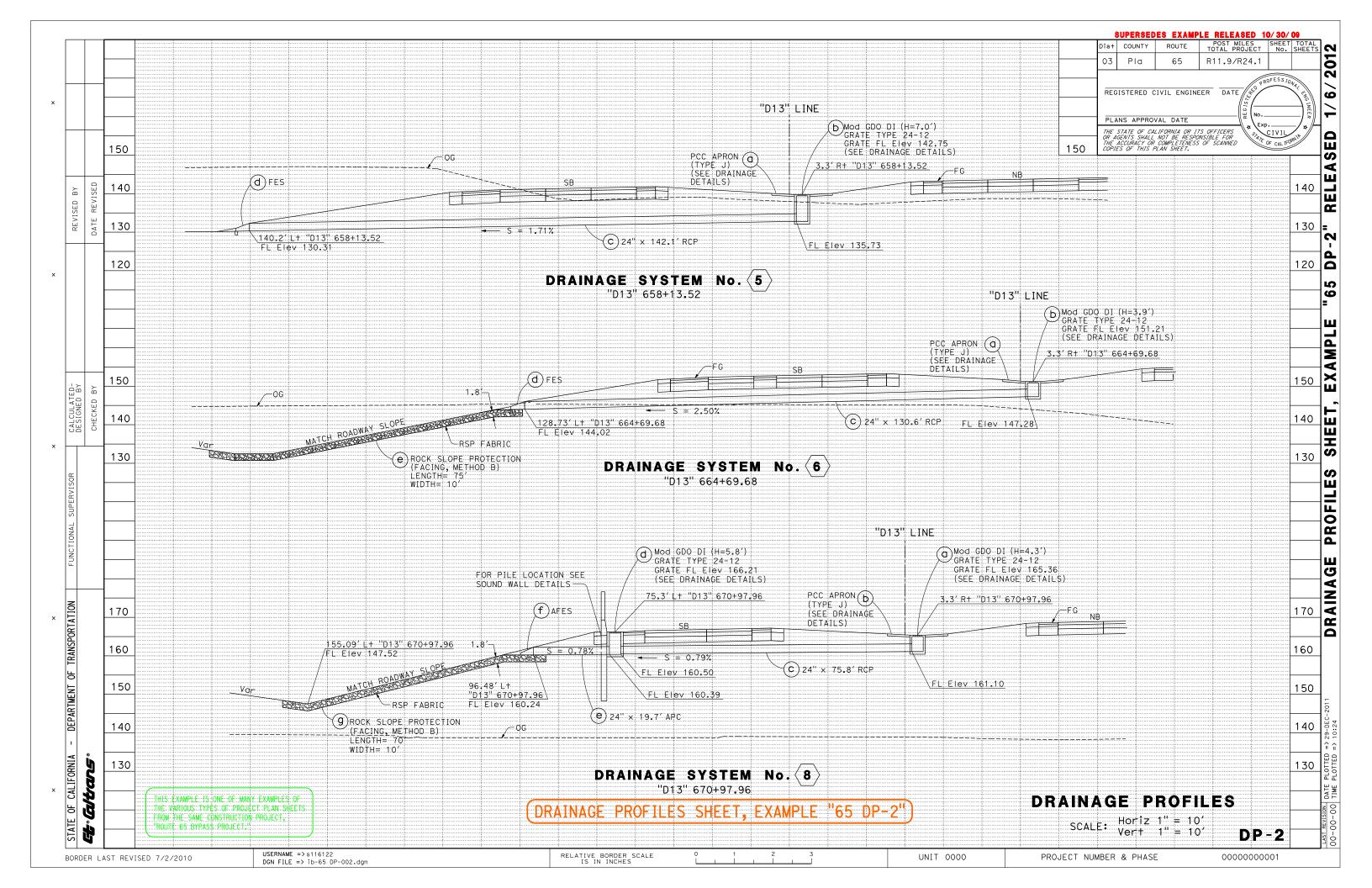


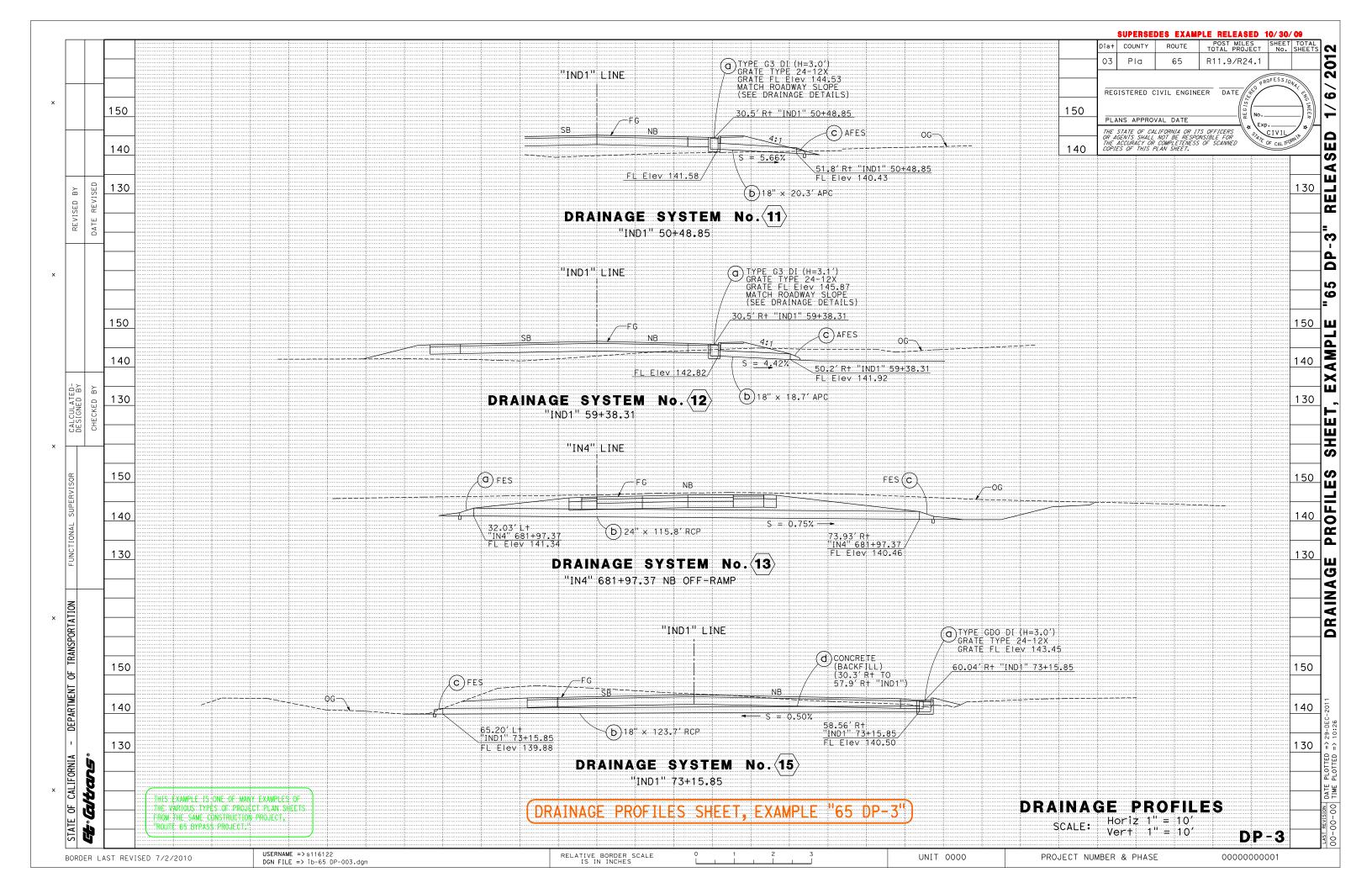


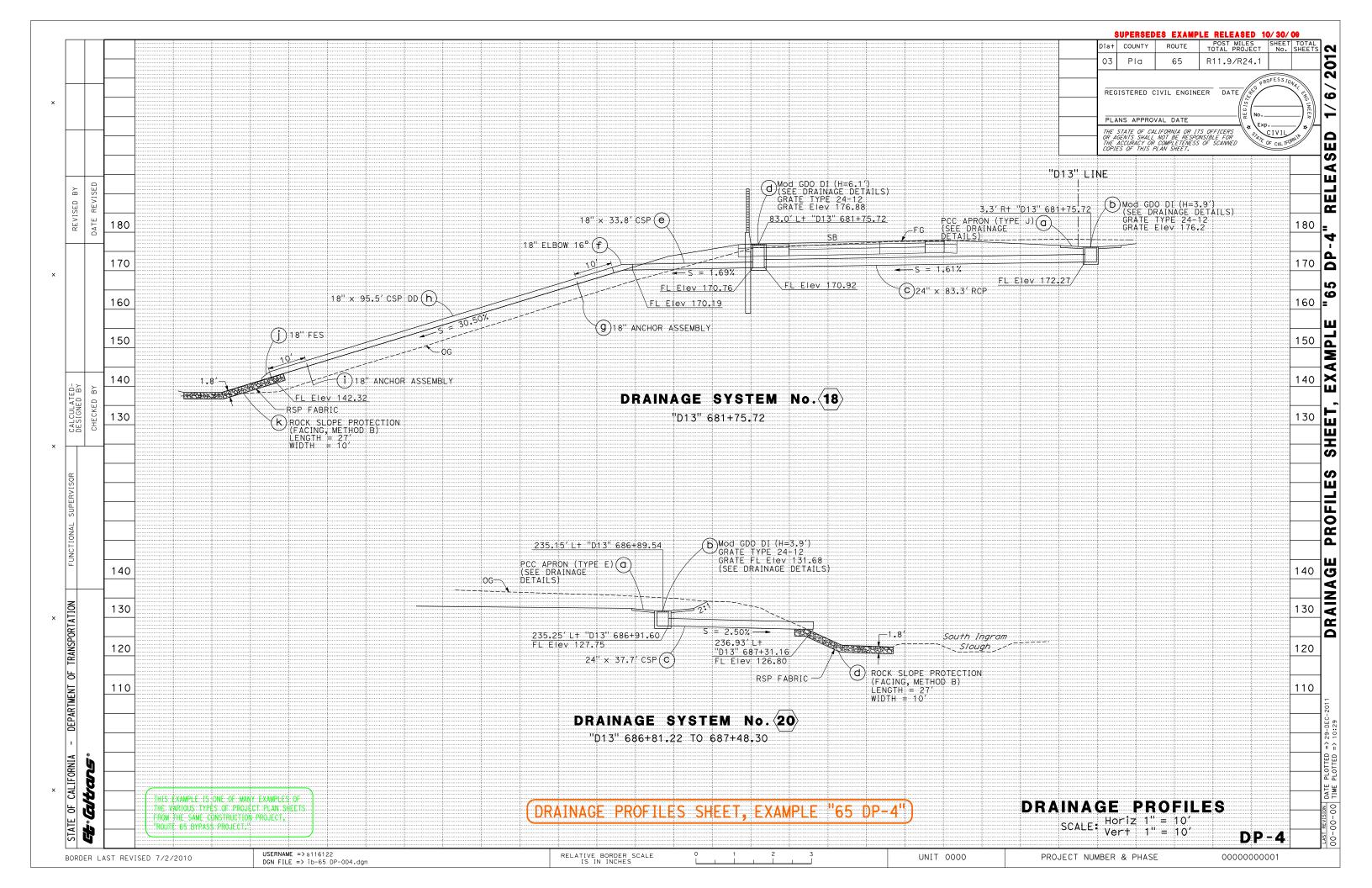






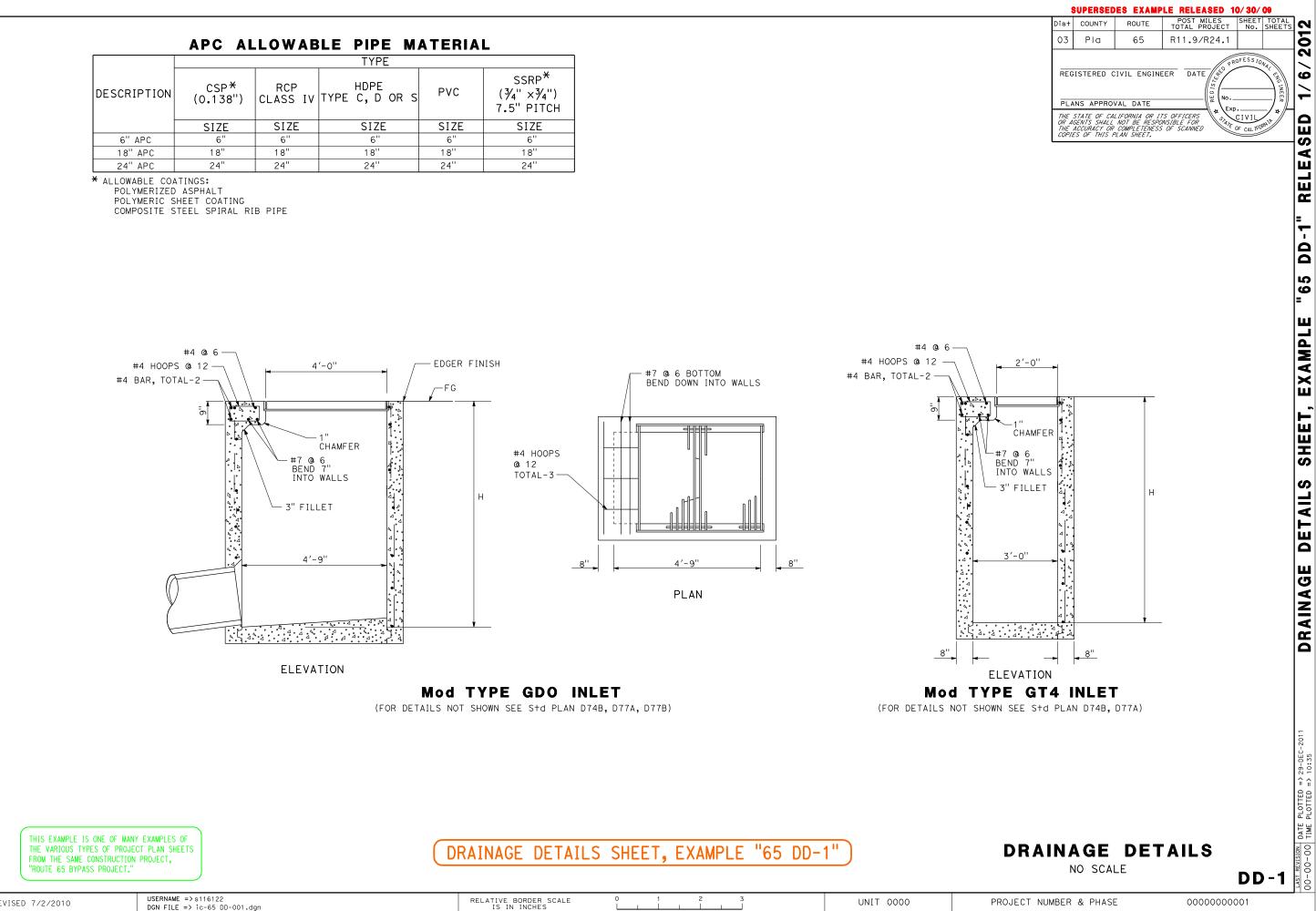






			TYPE		
DESCRIPTION	CSP* (0.138'')	RCP CLASS IV	HDPE TYPE C, D OR S	PVC	SSRP [*] (¾" ×¾") 7.5" PITCH
	SIZE	SIZE	SIZE	SIZE	SIZE
6" APC	6"	6"	6"	6''	6"
18" APC	18"	18"	18''	18''	18"
24" APC	24"	24"	24''	24"	24"

POLYMERIC SHEET COATING





x

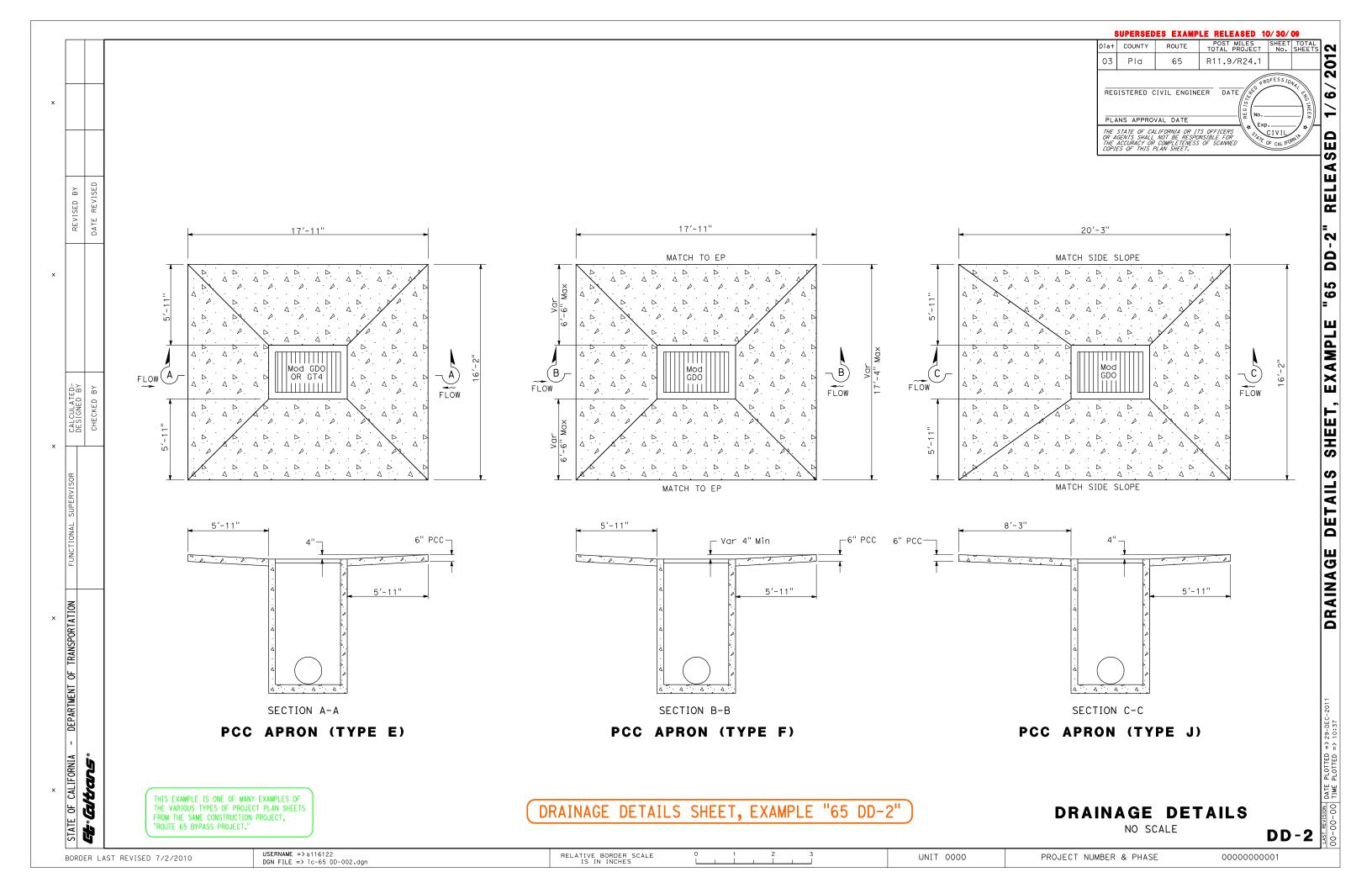
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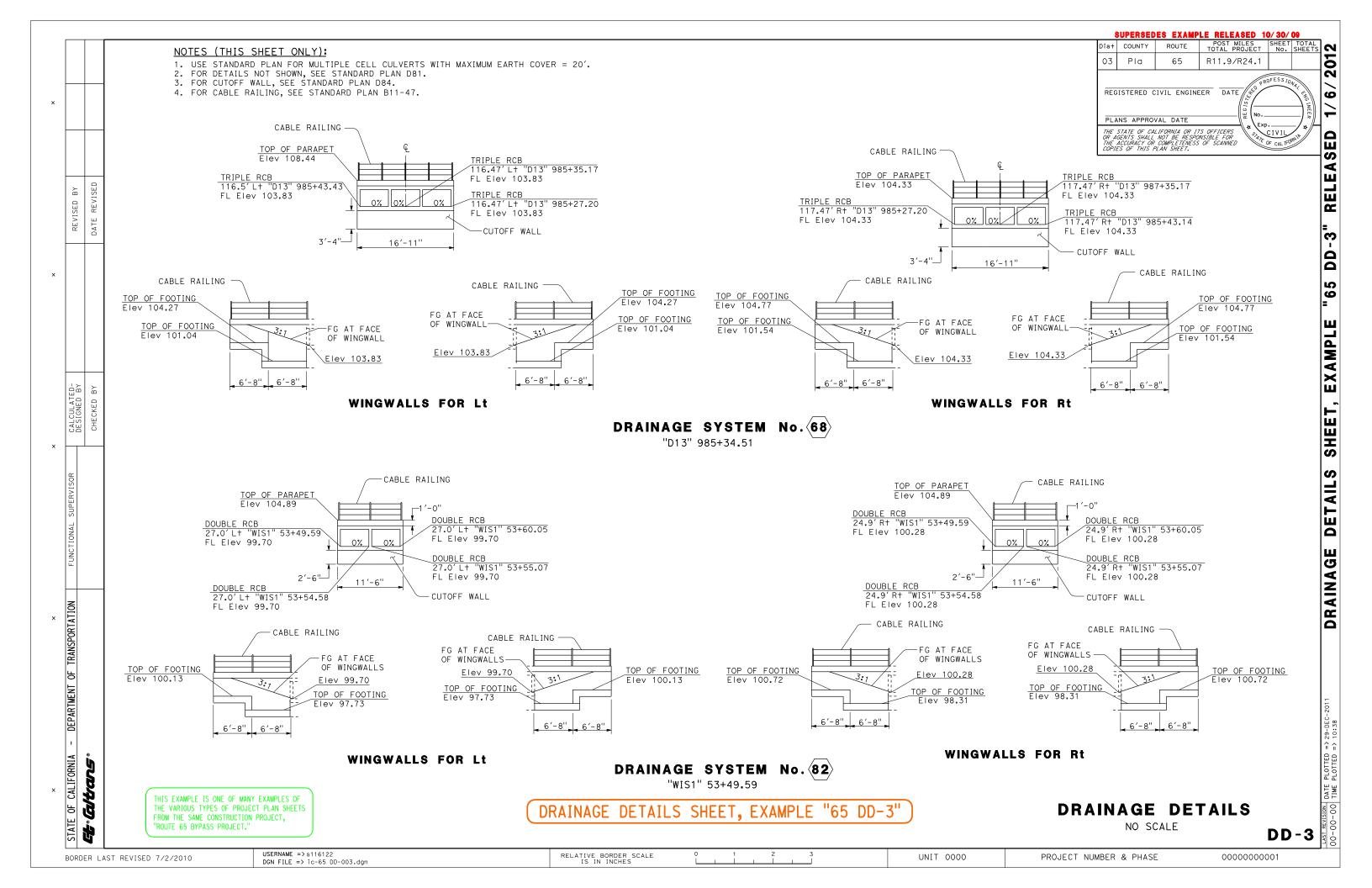
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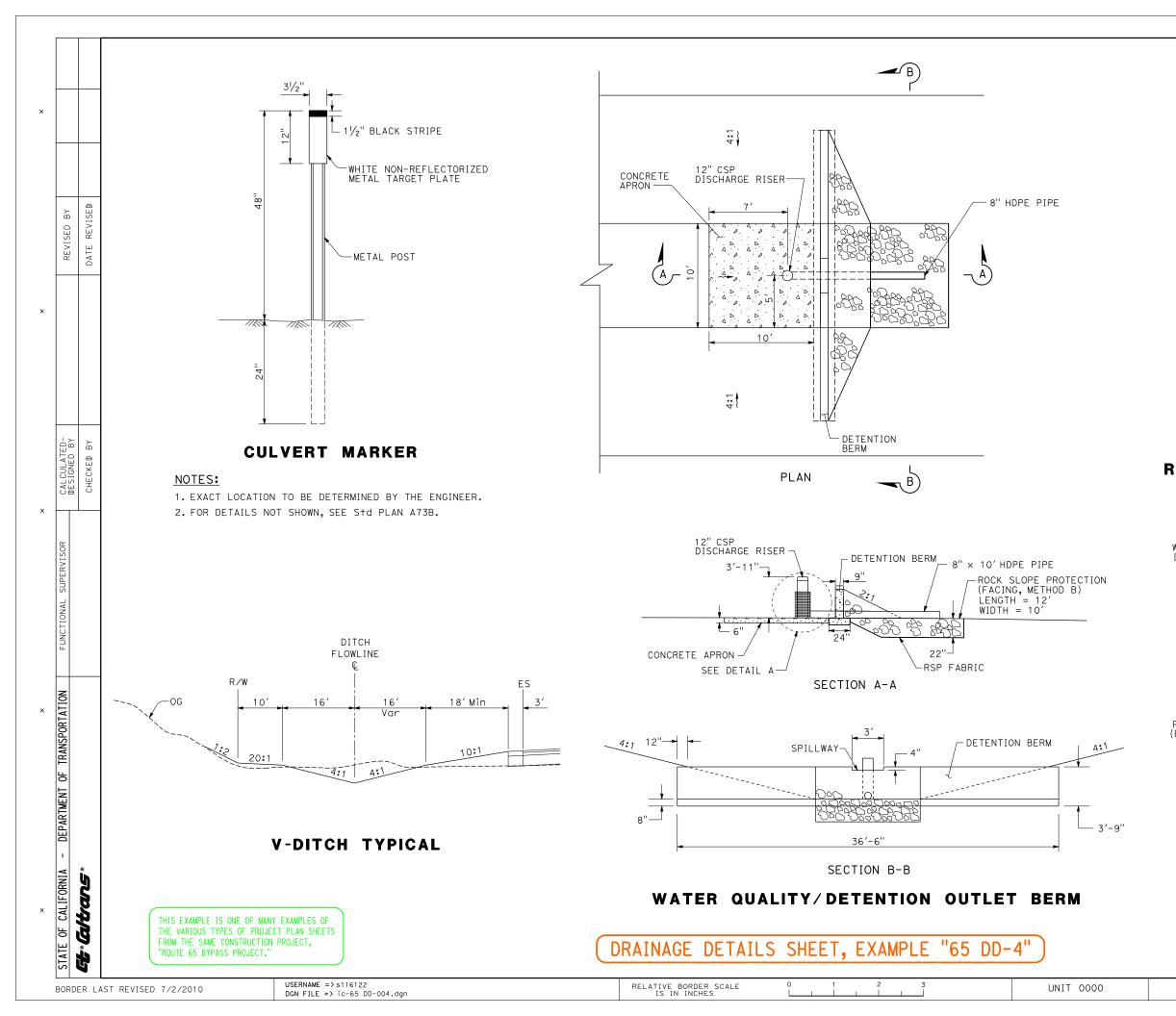
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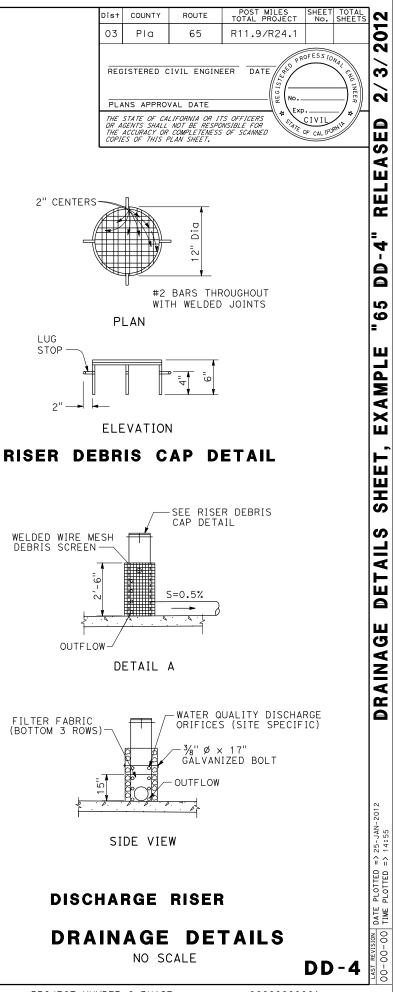
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CALCULATED-DESIGNED BY СНЕСКЕД ВҮ









PROJECT NUMBER & PHASE

00000000001

																					કા	<b>JPERSE</b>	DES EXAMPLE RELEASED 10/30/09					
	ABBREVIATIONS:					<u>N</u>	OTES	5:																st COUNTY		POST MILES		HEET No.
	APDD ALTERNATIVE			IN							NATIVES													03 Pla	65	R11.9/R24	.1	
	DA DEPRESSED /	APRON	l			2	2. EX(	CEPT F	FOR PIF	PE DOW	NDRAINS	WHIC	CH REC	QUIRE W	ATER '	TIGHT .	JOINTS,	ALL JO	INTS AR	RE STANE	DARD J	OINT T					PROFES	SS ION
																							F	REGISTERED (	IVIL ENGINEE	R DATE		
																								PLANS APPRO	VAL DATE	REGI	No	
																										OFFICERS	Exp	VIL
																							7 7 6	THE ACCURACY OR OPIES OF THIS P	LIFORNIA OR ITS NOT BE RESPONS COMPLETENESS C PLAN SHEET.	F SCANNED	ATE OF C	AL IFC
													DR	AIN/	AGE	QU	ANT	TIES										
_													_ ≻_	Ш	(N)						(N)	(N)						$\mathbf{x}$
KEVISED				ALTE	RNATIVE	LTERNA FLAR			NFOR(		CONCR FLAR		ASSEMBLY	STEEL				Ω	B)	IC		<u>د</u>					N0.	<u>כ</u>
	ET No. TEM No. INGWALL LVERT VERT		l z	l f		END			PIPE		END						ـــــــــــــــــــــــــــــــــــــ	ШЩ	тнор	FABRIC	Щ	VE VE					Z ≥	≥
	HEET No. YSTEM Nc NIT /WINGWAL CULVERT ULVERT	Н	KF ILL DRAIN		ILVERT	SECTI			LASS		SECTI			RAI KAI		ATE (X)	TEI	Ц С Ц Ц	TH.	Ľ.	INLE	COVE					그 [[]	-
	SHEE SYSTI SYSTI UNIT UNIT L/WII	INLE	<u> </u>										OR -	CORRUGATED DOWNDRAIN	ELBOW	CORRUGATED EL PIPE 38" THICK)	MISCELLANEOUS IRON AND STEE	CONCRETE STRUCTURE)	MEN	ROCK SLOPE PROTECTION (CLASS 8)	РР	Ч	DESCRIPTION		STATION	۱ ۱	SYS'	2
			BAC VE SIDE										ANCHOR	LANG		H P H			sL(	SL(SCT)	⊢ ⊢							
	VINAGE VINAGE VINAGE EAOVE EADWAL BANDON EMOVE	0		_			_	_	_	-		_	Ā	о По По По	з — , щ	34 ¹ 8	ЫNZ	NON NON	CIN	AS	H01	IGH						) [ 7
	DRAINAGE S DRAINAGE S DRAINAGE L DRAINAGE L HEADWE HEADWALI ABANDON	REMOVE	SAND REMOV OVERS	12"	18" 24"	12" 18"	24"	18	24"	36"	18" 24"	36"	18	18" C( PIPE (_109'	PIPE	18" COF STEEL (.138"	IRO	MINOR (MINOR	PROC (FA		HEIGHT	HEIGHT				1	DRAINAGE	I
			CY EA	+	LF	EA			LF		EA		EA		EA	LF	LB	CY	CY	SQYD		LF					ч   Я	Ē
	D-1 1 a																						EXTEND TRIPLE 10' × 5' RCB	ח"	13" 648+32	.17	-1 1	
	b 2																						CULVERT BY 18' (SEE SHEET DQ-18) REMOVE WINGWALLS (10' × 5')					
																							WINGWALLS (SEE SHEET DQ-18)					
-	D-1 2 a																99						TEMPORARY STEEL PLATE		13" 648+62	.07 D	-1 2	2
	b																	5.28					PCC APRON (TYPE J)		0 0 10 02			
	D-2 3 a																	5.28					PCC APRON (TYPE J)		13" 653+04	.99 D	-2 3	3
	b																635	1.58			3.0		Mod GDO DI, GRATE TYPE 24-12					
	c d								112.5		1												24" RCP 24" CONCRETE FES					
	e																		23	58			RSP (FACING, METHOD B)					
	D-2 4 a		1																				REMOVE OVERSIDE DRAIN (32.8' × 3.3	′) "D	13" 657+64	.30 D	-2 4	+
	D-2 5 a																	5.28					PCC APRON (TYPE J)	"D	13" 658+13	.52 D	-2 5	5
	b c								142.1								635	2.94			7.0		Mod GDO DI, GRATE TYPE 24-12 24" RCP					
	d								1 12 11		1												24" CONCRETE FES					
	D-36a																	5.28					PCC APRON (TYPE J)		13" 664+69	.68 D	-36	;
									130.6								635	1.93			4.0		Mod GDO DI, GRATE TYPE 24-12 24" RCP					,
	d										1												24" CONCRETE FES					
	e																		50	118			RSP (FACING, METHOD B)					_
	D-3 7 a 169.6		2.5									-											ABANDON 9" CULVERT		13" 665+18	.90 D	-37	,
	b																						REMOVE OVERSIDE DRAIN (44.3' × 3.3	·)				+
	D-3 8 a						1										635	2.03			4.3		Mod GDO DI, GRATE TYPE 24-12	"D	13" 670+97	.96 D	-38	
									75.8			+						5.28					PCC APRON (TYPE J) 24" RCP					
	d						_										635	2.51			5.8		Mod GDO DI, GRATE TYPE 24-12					
	e f				19.7		1																24" APC 24" AFES					
	g																		46	110			RSP (FACING, METHOD B)					
	D-7 9 0 1											-											REMOVE HEADWALL $(5'-2'' \times 2'-6'')$		ND1" 41+33.	85 D	-79	_
	b 46.9																					2.0	REMOVE 18" CULVERT					
	3 169.6 46.9	9	2.5 2		19.7		1		461.0		3						3274	37.39	119	286			TOTAL (THIS SHEET)					
	(N) - NOT A SEPARATE BID THIS EXAMPLE IS ONE OF M THE VARIOUS TYPES OF PRO FROM THE SAME CONSTRUCTI "ROUTE 65 BYPASS PROJECT	MANY EXA OJECT PI TON PRO	AMPLES OF LAN SHEETS						(	DRA	INAG	EC	AUG	NTIT	IES	SHE	ET,I	EXAM	PLE	"65	DQ-	1")	DRAINA	AGE	QUAN	TITIE		
	T REVISED 7/2/2010		SERNAME =>s1 GN FILE =>id		01 dan						RELATI	VE BOF	RDER SC	CALE	0		1	2	3			UN	IT 0000 PROJECT NUMBI	ER & PHASI	Ξ	000000	<b>D</b> 00001	

DQ-1" RELEASED 9/17/2018 "65 SHEET, EXAMPLE DRAINAGE QUANTITIES

LAST REVISION DATE PLOTTED => 17-SEP-2018 00-00-00 TIME PLOTTED => 13:30

REVISED BY	DATE REVISED	SHEET No.	SYSTEM No.	m       REMOVE         P       HEADWALL /WINGWALL	CULVERT	CULVERT	INLET	BACKFILL	DRAIN	CI	ERNA PIPE ULVEI		F	ERNAT LAREI END ECTIO	כ	COI	NFORO NCRE ⁻ PIPE ASS	ΤE	FL	NCRE _ARE END CTIC	D	OR ASSEMBLY	JGATED STEEL NDRAIN IICK)	(N)	UGATED PE HICK)	NEOUS STEEL	MINOR CONCRETE (MINOR STRUCTURE)	DPE ON METHOD B)	DPE FABRIC	OF INLET Z	OF COVER ()	
			DRAINAGE S DRAINAGE L	REMOVE HEADWALL	ABANDON	REMOVE	REMOVE	SAND	REMOVE	12"	18"	24"	12"	18"	24"	18"	24"	36"	18"	24"	36"	18" ANCHOR	18" CORRUGATED PIPE DOWNDRAIN (.109" THICK)	PIPE ELBOW	18" CORRUGATED STEEL PIPE (.138" THICK)		MINOR CC (MINOR S	ROCK SLOPE PROTECTION (FACING, MET	ROCK SLOPE PROTECTION (CLASS 8)		HEIGHT	
					LF	LF	EA	CY	EA		LF			EA			LF			ΕA		ΕA	LF	ΕA	LF	LB	CY	CY	SQYD	LF	LF	
		D-7	10 a b	-													22.0			1												24" CON 24" RCF
			c	-													22.0			1												24 KCI 24" CON
		D-7		-							00.7															238	0.98			3.0		G3 DI,
1			b c								20.3			1																		18" APC 18" AFE
BED	BY																															
CALCULATED- DESIGNED BY	CHECKED	D-4	12 a	-																						238	1.01			3.0		G3 DI,
E SIC	HEC		b c	-							18.7			1																		18" APC 18" AFE
υā	0													1																		TO ALL
		D-4	13 a																	1												24" COI
			b														15.8															24" RC
В			С																	1												24" COM
2		D-9	14 a	1																												REMOVE
SUPERVISOR			b			44.9																									2.0	REMOVE
			С	1																												REMOVE
DNAL		D-9	15 a																							474	1.58			3.0		Mod GD
Ĕ			b												1	123.7																18" RCF
FUNCTIONAL			c																1													18" CON
			d																													CONCRE (SEE SH
_																																,
NO		D-9	16 a	_			1																									REMOVE
			b			52.8																									3.3	REMOVE
E E																	S	YSTEM	No.	17 Di	ELET	ED										
VSP(																																
IRAI		D-4	18 a	-																						635	5.28			4.0		PCC AF
노			b c	-													83.3									600	1.90			4.0		Mod GE 24" RC
			d	-																						635	2.59			6.1		Mod GE
<u>ال</u>			e																			_		1	33.8							18" CS
DEPARTMENT OF TRANSPORTAT			f					-						1								2	95.5									18" CS 18" FE
E			g h					-	-																			18	29			RSP (F
				2		97.7	1				39.0			3	· · ·	123.7	321.1		1	4		2	95.5	1	33.8	2220	13.34	18	29			

BORDER LAST REVISED 7/2/2010

USERNAME =>s111271 DGN FILE =>id-65 DQ-002.dgn

The drainage systems are to be in numerical order regardless of which drainage plan sheet they are shown.

RELATIVE BORDER SCALE IS IN INCHES

2

UNIT 0000

SUPERSEDES EXAMPLE RELEASED 01/06/12

	Dist	COUN		ROUTE	TOTAL	F MILES PROJEC	T	HEET No.	TOTA SHEE	τs
	03	Pla		65	R11.	9/R24.				
						//.	PROF	ESSIO	NA	
	REG	ISTERE	DC	IVIL ENGI	NEER D	ATE USING			ENG INEER	
	<u> </u>	NG	2011				o			
				AL DATE	ITS OFFICE		Exp	VIL	-/ */	Η
	OR A	GENTS SI ACCURAC	HALL Y OR	IFORNIA OR NOT BE RES COMPLETENE LAN SHEET.	PONSIBLE FO	NED STA	TE OF	CAL IFO	RNIA	
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# DRAINAGE QUANTITIES

DQ-2

LAST

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CALCULATED-DESIGNED BY СНЕСКЕД ВҮ

FUNCTIONAL SUPERVISOR

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DATE REVISED REVISED BY

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No.		ן כ	CUL	INL	<u> </u>											ANCHOR	CORRUGAT DOWNDRA DOWNDRA	ELBOW		18" CORRUGATED STEEL PIPE (.138" THICK)	CELLANEOUS	CONCRETE STRUCTURE	I N N N N N N N N N N N N N N N N N N N	ROCK SLOPE PROTECTION (CLASS 8)	DES	CRIPTION			
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(N) – NOT A SEPARATE BID ITEM

THIS EXAMPLE IS ONE OF MANY EXAMPLES OF THE VARIOUS TYPES OF PROJECT PLAN SHEETS FROM THE SAME CONSTRUCTION PROJECT, "ROUTE 65 BYPASS PROJECT."

# CONCRETE BACKFILL (CLASS IV)

DRAINAGE SYSTEM NO.	CY
15	3.94
24	4.97
45	2.11
49	6.21
75	11.75
101	3.57
TOTAL	32.55

# BOX CULVERT AND WINGWALL QUANTITIES

DRAINAGE SYSTEM No.	CLASS I CONCRETE (BOX CULVERT)	BAR REINFORCING STEEL (BOX CULVERT)	EXCAVATION Z	BACKFILL Z		
	CY	LB	CY	CY		
1	66.1	12,728	91.5	54.8		
68	256.3	40,165	320.5	657.9		
82	54.2	6,970	180.5	138.6		
FROM C-37 DRCB AT D13 SSWD	784.8	158,083	520.6	898.6		
FROM C-39 DRCB AT RIOSA AND SSWD	588.6	121,147	371.3	728.6		
TOTAL	1,750	339,093	1,484.4	2,478.5		
(N) NOT A SEPARATE BID ITEM						

# DRAINAGE QUANTITIES SHEET, EXAMPLE "65 DQ-18"

BORDER LAST REVISED 7/2/2010

USERNAME =>s111271 DGN FILE =>id-65 DQ-018.dgn

RELATIVE BORDER SCALE IS IN INCHES

2



		NOTE - (TEXT: FT=3, TX=8.75, WT=2, LV=23, UPPER CASE, UNDERLINED) (USE "NOTE" IF ONLY ONE NOTE USED. USE "NOTES" IF TWO OR MORE NOTES USED.) (UNDERLINE HEADINGS SUCH AS "ABBREVIATIONS" AND "LEGEND")				
		FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT	OFFICE.	Generic Project Border Sheet"		
			for b	asic border sheet information		
			not s	hown on this sheet.		
		Where right of way is shown on a drainage plan sheet this note. Typically, the right of way note is placed	in the Use a solid line to depict right of t	way		
		upper left corner of the sheet. See subsection titled "Right of Way" in Section 2-1.1	of			
		this manual for instructions regarding indeterminate of way.	: right			
BΥ	REVISED	The cell for this note in the Caltrans Cell Library (CTCELLIB.cel) is: AC=NOTE2				
REVISED	E REV	TEXT: FT=3, TX=7, WT=1, LV=23, Upper Case				
REV	DATE	Citatinities, incl. incl. Citats, opper code				
		DRAINAGE PLANS:				
			entation in plan view aspect of the drainage facilities.	<ul> <li>There are two sets of cells for identifying systems and units, one set is without masking and the other set is with masking. Either set can be used, it depends on how cluttered the plan</li> </ul>		
		<ul> <li>Inose elements that are in the Master plan view sheets are typically used as</li> </ul>	<ul> <li>Topo and Design files and pertinent to all drainage background information.</li> </ul>	view sheet is with topo or background information. Labeling drainage features is more important than showing background topography. Keep labeling of the drainage system number and units designations as close as possible to the display of the system. Use minimum clips as defined in Section 3.8 of the CADD Users Manual to allow for open areas for labeling.		
			roodwork bid items shown on the project plan layouts.			
		<ul> <li>Existing drainage is shown dropped out drainage is being abandoned, removed, a existing, non-dropout may be used.</li> </ul>	t with background topography. However, if the existing or modified, or if new drainage work is tying into the	Cells with masking: DSN - system number DCIR - unit designation		
		· If no draingae work is to be performed	d within the corresponding limits of a project plan	Cells without masking: DRNSYS - system number		
ED-	ВΥ	layout sheet (road work items), do not number of drainage plan sheets may no	include a drainage plan sheet for that area. The of be the same as the number of project plan layout ets with no drainage work in the contract plans is not	DRNUNT - unit designation		
CALCULATED- DFSIGNED BY	CHECKED	an acceptable method of developing a	district's inventory of drainage facilities.	<ul> <li>Labeling of the types of drainage units on the drainage plans may be generic or can be a complete item call out, but the units must be labeled. If generic labeling is used, use terms such as: Culv, DD, DI, FES, Jct Str, OD, RSP, etc. Use a leader line with the labeling of</li> </ul>		
CALC	CHE	<ul> <li>For identification purposes, drainage interconnected drainage items. Each gr</li> </ul>	work is to be separated into groupings of rouping becomes a drainage system.	each unit designation.		
$\vdash$		<ul> <li>Assign a drainage system number to ec Consecutively number the drainage system</li> </ul>	ach drainage system where work is to be performed. tems throughout the project. This provides ease of	<ul> <li>Full details and complete item call outs of each drainage system (type, size, length, etc.) must be shown on the drainage profiles, details and quantities.</li> </ul>		
		locating and identifying drainage syste inspector, System numbering does not	ems for the bidder, contractor and construction start and stop for each individual drainage plan	<ul> <li>If contours are added to the drainage sheets, they are not more important than the drainage items. Final contours are to stop at the edge of the paved surface, which then allows the</li> </ul>		
VISOF		sheet. See Section 2-2.10 of the PPM f numbering.	for additional information concerning system	drainage items to be seen more clearly. Final contour grading is not to be shown on paved surfaces. Eliminate unnecessary spot elevations. Contours or spot elevations should only be shown slightly beyond the right of way line unless it directly affects the drainage items shown		
SUPERVISOR		<ul> <li>Identify each drainage system by a nu representing the drainage unit designa</li> </ul>	mber and each unit of the system by a letter ation. There are cells in the Caltrans cell library	on the plan view sheets.		
		(CTCELLIB.cel) of the symbols used for	identifying systems and units.	• See "Generic Project Plan View Sheet" for additional information required on plan view sheets.		
FUNCTIONAL						
FUN						
			through AC=NOTE31 and AC=NOTE35 through AC=NOTE37 in the discussion of the discussio			
NO		types of v	work in the statement "APPROVED FOR"	i teleni		
RTAT)			e following statements is available for use depending on on the sheet:	) what		
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TRA		SHEET NAME SHEET ID C	E: DRAINAGE AND UTILITY PLAN CODE: D-XX			
DEPARTMENT OF TRANSPORTATION		NOTE24 - J	APPROVED FOR DRAINAGE AND CONTOUR GRADING WORK ONLY	Place Sheet		
<b>RTMEN</b>		SHEET NAME SHEET ID C	E: DRAINAGE AND CONTOUR GRADING PLAN CODE: D-XX	right corne between the		
DEPA			APPROVED FOR DRAINAGE WORK AND UTILITY INFORMATION ONLY	Use "CENTER		
		SHEET NAME SHEET ID C	E: DRAINAGE AND UTILITY PLAN CODE: D-XX	Use appropriate plotting a		
<b>NIA</b>	ÿ			BRO IFCT DRAINACE CUFFTC		
LIFO	5	Use th	his statement (AC=NOTE4) on the drainage plan	<b>PROJECT DRAINAGE SHEETS</b> , a space on either side of		
F CA	° Gitrans	view s	sheets when no work other than drainage is shown e sheet. Place statement as shown, center bottom	BASIC REQUIRED INFORMATION		
STATE OF CALIFORNIA	<b>1</b>	of th	e sheet.	(SHEET 1 OF 2)		
STA		TEXT:	FT=3, TX=8.75, Slant=20°, WT=2, LV=10, Upper Case	APPROVED FOR DRAINAGE WORK ONLY		

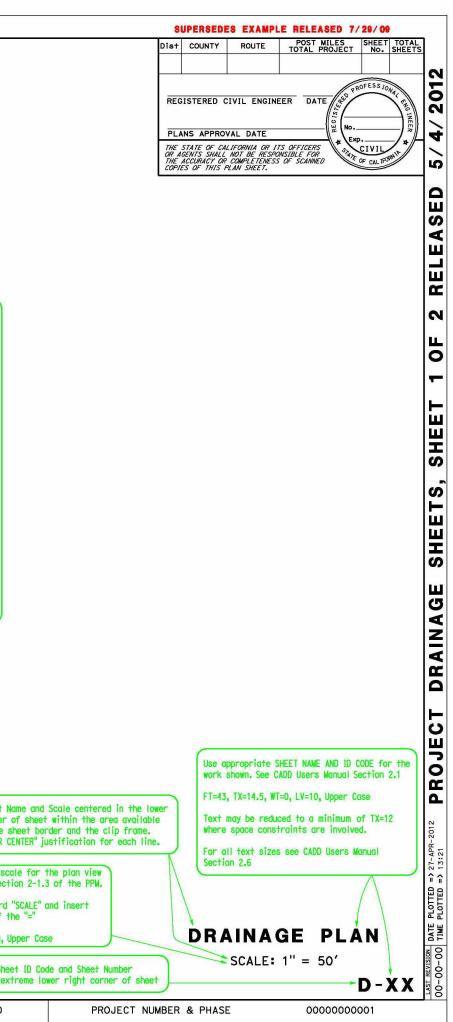
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See "Generic Project Border Sheet" for basic border sheet information not shown on this sheet.



DRAINA	GE	PROF	ILES:

- Drainage profiles provide a visual representation of the drainage facilities in an elevation view (side view).
- Drainage profiles must show all the information needed (i.e., elevations, slope, type and size of pipe, etc.) to construct the drainage system.
- Place the labeling of each drainage system number under their individual profile.
- Show existing ground line and finished grade on drainage profiles so that the quantities of excavation and backfill needed to install, construct or remove a drainage facility may be determined. Structure excavation and structure backfill is included in the bid item(s) to install, construct or remove a drainage facility.
- Profiles of crossdrains that are perpendicular or at a skewed angle to the alignment line are to be displayed left to right as if the viewer were standing on the alignment line looking up station (direction of increasing stations, similar to the display of typical cross sections). The station reference for these drainage systems is to be the point at which the crossdrain culvert alignment intersects the roadway alignment line or profile grade.
- Display profiles of drains, that are in a longitudinal position in relation to the alignment line, from left to right, as if the viewer were standing on the right of way line on the right side of the route or road alignment. Reference the begin and end points of these culverts and any intervening angle points in the culvert's horizontal alignment to the nearest roadway station line by station offset distances and station pluses.
- . A system profile should be shown entirely on one profile sheet. If a profile is long enough to have a match line, stack the profile with the beginning station on top and the next section below that.
- The offset distance and station reference for the location of drainage structures, shown on the drainage profiles, are to be shown to the nearest hundredth of a foot. Show offset distance first, then the station reference.
- Culvert crossdrains are typically constructed on slopes between zero and 5 percent. The slope is based on the gradient of the stream or waterway they are to convey. Crossdrain profiles typically are drawn at a horizontal to vertical scale ratio (H/V) of one. Commonly used scales for drainage profiles are 1"= 5' for both horizontal and vertical or 1"=10' for both norizontal and vertical. The scale ratio of 1:1 produces greater details There may be some instances where physical conditions of culvert installation will dictate the use of a scale ratio (H/V) other than one. When a horizontal scale of 1"= 20' or more is used, an exaggerated vertical scale typically (1'=5') will be required to clearly depict the information on the profile. The scale ratio of 1:1 should be used for drainage work to extend existing culverts.
- Storm drains collect highway drainage and are constructed longitudinally to the highway alignment. These storm drains are typically constructed on slopes between zero and 5 percent. Profiles of storm drains may require a scale ratio (H/V) other than one. Due to the typically longer length of storm drains, a horizontal scale of 1"= 20' may be more appropriate with a vertical scale of 1"= 5' or 1"= 1'.

- In steeper terrain, downdrains typically are used to convey highway runoff and require a steeper gradient. The highway side slope dictates the slope of the downdrain. Profiles of downdrains may require a scale ratio (H/V) other than one.
- The slope of a culvert (S=) is most commonly shown by decimal but may also be shown by percentage. Show pipe slopes to 4 decimal places for ft/ft values or 2 decimal places for percent values. The method of identifying slope is to be consistent throughout the profiles.
- The length of a culvert is the slope length, not the horizontal length. The estimated slope length of pipe is the centerline length of the culvert expressed in decimal feet, to the nearest tenth of a foot.
   Where greater accuracy is dictated by site condition, the slope length of the culvert may need to be shown to the nearest hundredth of a foot.
- The estimated slope length of a pipe culvert that is shown on a drainage profile is to be the same length that is entered in the drainage quantities for that specific pipe culvert.
- Where a pipe is placed between successive drainage structures (inlets, junction boxes, etc.), the slope length of the pipe shown is to be the centerline length between the inside face of each structure (inside face to inside face). Where an end of a pipe is placed in a drainage structure, the pipe length is to be measured from the inside face of the structure along the centerline of the pipe to the other end of the pipe regardless whether it ends within another drainage structure, highway side slope, or other terminus.
- The pay length for each culvert installed during construction will be determined in the field in accordance with the Standard Specifications and the instructions in the Construction manual. This includes determination of the actual length of pipe necessary before cutting when a pipe is to be cut to fit an outlet structure, entrance structure, inlet or highway side slope.
- The quantity for each pipe culvert should not be increased to include the length
  required to reach the next 2-foot increment of pipe. Construction Surveys will stake
  the pipe alignment based on the profile of the pipe shown on the drainage profiles and make any field adjustments to fit site conditions. This is why we are not to arbitrarily increase the calculated length for each pipe culvert in Design. Quantities on plans are to be calculated quantities, never rounded quantities.
- Pipe culverts are to be labeled in the following order: diameter of pipe, length of pipe, and type of pipe material. Example of labeling: 24" x 78.5' CSP
- Caution should be exercised for the effect of skewed pipe alignment intersecting the interior wall of a standard drainage inlet. The standard plan inlet may require modification of the interior dimensions to nodate the pipe opening due to the type, size, and skew of the pipe culvert.
- If a ladder is to be constructed on an inlet wall, it needs to be located under the short end of the grate to have the 2 1/2-foot of clearance from the face of the steps to the nearest obstruction on the climbing side of the ladder. Manholes that require ladders should have a 3-foot opening for the manhole cover to allow access inside the manhole.

### DRAINAGE DETAILS:

- site conditions.
- below the title of the sheet.
- inlet grate.

### DRAINAGE QUANTITIES:

- summary of drainage quantities.
- table.
- "GRAND TOTAL" or "TOTAL."

BASIC	REQUIRE	D	INF	ORMA
	(SHEET	2	OF	2)

PROJECT DRAINAGE SHEETS,

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			NOTE:		50				ERSEDES EXAMPLE P
<		_	NOTE:	Where right of this note (AC placed in the titled "Right	of way is shown on a utili =NOTE2). Typically, the ri upper left corner of the of Way" in section 2-1.1 regarding indeterminate r	ight of way note is e sheet. See subsection of this manual for	See "Generic Proj for basic border not shown on this	sheet infor	Sheet" mation
		_		TEXT: FT=3, T	K=7,WT=1,LV=rd_RIGHT-OF-	WAY-anno(23), UPPER CASE.	Numbered Level information is shown e.g. LV = border_PROJ-ID-BLOCK-anno	ersion for all cases n in parenthesis afte	between named levels ar
	DATE REVISED	-	CALTRANS UTILITY POLICY: For the Department's policy concerning public or private owned utilities and state owned utilities/facilities, see Chapter 17 of the Project Development Procedures Manual (PDPM) the Encroachment Permit Manual. Compliance with the Utility Policy is mandatory for all projects. A Utility Policy Certification must be completed for each project, regardless if high priority subsurface installations (formerly called High Risk utilities) are within the project limits or not. The Utility Policy Certification and the utility plans must be sealed and signed by a licensed Civil Engineer. High priority subsurface installations, not mentioned in PDPM Chapter 17 Section 3 Artic 7 Exemptions to Utility Policy, must be positively located and the information included on the utility plans. Positive location of these facilities must be shown in a data table labeled ("POSITIVE LOCATION INFORMATION") on the utility plan sheets.	and Se on Ut wir All on Ca Ie th th De Fo	the roadway layout sheet ility plans provide a visu thin the project limits. existing utility data kno the utility plans. This i lifornia Government Code, rk with limited or no exc are are locations within - at do not meet the Exemp velopment Procedures Manu r a project granted an ex-	ts. Ial representation in plan v own, or discovered during c includes all public, private Section 4215). avation may be exempt from the project limits. It ons to utility policy, the ual Chapter 17 Section 3 Ar keeption for "contract work	e project plan set. On small projects, util view of the existing or relocated and new/ un utility investigation for plan developme and state-owned "main and trunk line" uti m having to show utiltites on the project en the work is not considered exempt. See	lities may be shown 'planned facilities ent, should be shown lities (see plans. But if the Project mended to show all	UTILITY PRO Utility profi there is uti work not per See Section CALTRANS LIN There is a dis- status (new, ex- resource file '
CALCULATED-	DESIGNED BY CHECKED BY	-	When conducting positive location of a facility, do not exceed 100 feet spacing between location determinations. See PDPM Chapter 17, Section 3, Article 3 for further information UTILITY NOTES: Utility notes are to be used only when an exception to the Department's utility policy been approved or the project meets the requirements for "exempt work" or "flexible wor or when positive location information for existing utilities is only shown for excavatic work area or when no utilities are found within project limits. If there are project util plans, the note is to be placed on the appropriate utility plan sheet. If there are no p view sheets, then place the note on the appropriate typical cross section sheet. If there are no typical cross section sheets, place the note on the appropriate construction de sheet. FLEXIBLE WORK	has has k" n ity blan re stail • Irr • Co • Wo • Co • Wo • Do • Co • Wo • Do • Co • Wo • Do • Co • Wo • Do • Co • Wo • Co • Wo • Co • Co	the drainage facility is ainage facility. Tigation conduits (former State-owned subsurface for nduits for State-owned el rk. e point of demarcation be rvice point at the highwa ring the normal course of Section 5-1.36 of the St	to be shown on the draina ly known as irrigation cros acility that may conflict w ectrical systems should be etween public and privately y right of way.	a subsurface utility, the location of the ge profile and/or detail sheet that shows sovers) may be shown on the utility plans ith project work. shown on the utility plans as they may c owned facilities is typically at the servi the contractor must protect all existing u s shown in utility construction details. F placed on the utility plan sheets. If the	the specific as they are onflict with project ice drop or tilities, as stated or construction	letters and the it easy to district easy to an and V8 Named L own separate leasy to show utilitie the electrical syst of a potenial of a potenial of a potenial of easy to de easy to
FUNCTIONAL SUPERVISOR			Examples of contract work that is flexible in nature may include the following: . An individual post for guardrail or thrie beam barrier (excluding end treatments, transition railings and anchor blocks). . Foundations for lighting and poles for traffic operation features outside of the intersection (not Including overhead sign structures). EXEMPT WORK Examples of contract work that is exempt in nature may include the following: . Work with no excavation or limited excavation, as defined in Section 1, Definitions in Chapter 17 of the Project Development Procedures Manual. . Roadside signs and construction area signs. . Highway planting where the exact location for planting, irrigation lines, controllers of other appurtenances are not shown (does not apply to hardscape, including planter boxes retaining walls and other infrastructure) . Fences	r, Iff ex s, Effective r, Iff ex L0	r the contractor to perm a utility is to be reloca LOCATED BY OTHERS." Use a ility relocation work. the owner (others) is rel nal location of the reloca ility owner and Caltrans. there is a possibility th isting location, labeled "I CATION OF RELOCATED FACIL	anently protect a utility, need by the owner of the u of the word "others" means ocating the facility prior need utility. The final loco nat the utility will not be TO BE RELOCATED BY OWNER/O .ITY BY OWNER/OTHERS." Use	the work will have a bid item other than ' tility during project construction, use the that the project contractor will not be d to the start of project construction, the tion of the relocated utility is to be agr relocated before construction starts, ther THERS" and the new/planned location, labele "to and from" leader lines and arrows to clocated (see Standard Plan A10C).	"Protect in Place." e wording "TO BE loing the en just show the reed upon by the	<ul> <li>There is a gen of the roadbec</li> <li>Permanent util within Caltrans represents (é.</li> </ul>
ENT OF TRANSPORTATION	5	N MANUAL	<ul> <li>When subsurface utilities are not shown on a project plan sheet with "exemption to utility policy" work only, include the following note on the plan sheet:</li> <li>WORK ON THIS SHEET REQUIRES LIMITED OR NO EXCAVATION. UTILITIES ARE NOT SHOWN.</li> <li>When approximate location of existing subsurface utilities is shown on a project plan sheet with exempt work only, include the following note on the plan sheet:</li> <li>WORK ON THIS SHEET REQUIRES LIMITED OR NO EXCAVATION. APPROXIMATE LOCATION OF UNDERGROUND UTILITIES IS SHOWN.</li> <li>When positive location information for existing high priority utities is not shown on project plan sheet with flexible work only, include the following note on the plan sheet:</li> <li>WORK ON THIS SHEET CAN BE ADJUSTED TO AVOID CONFLICT WITH</li> </ul>						)
STATE OF CALIFORNIA - DEPARTMENT	لطردمي	LANS PREPARATION	<ul> <li>EXISTING UTILITIES. EXACT LOCATION OF HIGH PRIORITY UTILITIES IS NOT SHOWN.</li> <li>When positive location information for existing high priority utities is shown only for the excavation work area, include the following note on the plan sheet:</li> <li>EXACT LOCATION OF HIGH PRIORITY UTILITIES IS SHOWN WITHIN EXCAVATION WORK AREAS ONLY.</li> <li>When no utilities are found within the limits of a plan sheet, include the following note on the sheet:</li> <li>A UTILITY INVESTIGATION WAS COMPLETED AND NO UTILITIES WERE FOUND WITHIN THE SHEET LIMITS.</li> <li>Use this statement (AC=NOTE25) on each individual utility plan view sheet. Place statement as shown, center bottom of the sheet</li> </ul>			BASIC REQUI	TILITY SHEETS, RED INFORMATION	shee Use FT=:	appropriate plotting so ets, see "SCALES" in sec a colon after the word 3, TX=8.75, WT=2, LV=bord ER CASE
		AST R	TEXT: FT=3, TX=8.75, WT=2, LV=border_INSIDE-BORDER-anno(10), 20° s       USERNAME => s111271       DOI: 515 => Utilizity Seconds	ordni, UPPEK CA	RELATIVE	BORDER SCALE	0 1 2 3		JNIT 0000
50	L	P	DGN FILE => Utility_Generic_ Sheet.dgn		IS II	N INCHES			

SUPERSEDES EXAMPLE RELEASED 04/16/20	SUPERSEDES	EXAMPLE	RELEASED	04/16/20
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	Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS	0
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		NS APPRO	VAL DATE			NEER	19
et	THE	STATE OF CA	LIFORNIA OR IN NOT BE RESPO	TS OFFICERS		*/	
Is and numbered levels	THE		COMPLETENESS	OF SCANNED	OF CAL IFO	an.	90
)							

### ROFILES, DETAILS AND QUANTITIES:

ofiles, details and quantities may be required as part of the project plans, if utility work to be performed by the project contractor. This would be utility performed by the utility owner or others.

on 2-2.13 of the PPM for additional information.

### LINE STYLES FOR UTILITY SHEETS:

distinct line style to depict each utility type (electric, water, gas, etc.) and , existing and abandoned). These line styles are in the Caltrans line style e "ctlstyle-SS4.rsc" for subsurface and aerial (overhead) facilities.

existing utility line styles are graphically different (upper and lower case the thickness of line). See Section 2.4 of the CADD Users Manual. This makes listinguish the new from the existing utilities when on the same plan sheet.

convention for utilities in DGN files, is defined in Section 2.4, and Appendix A10 of the CADD Users Manual. In files created using V8 Standards d Levels, each utility status (new, existing and abandoned) will be placed on its e level. These levels are non-dropout levels.

s shown on the utility plan sheets are NOT to be dropped out. If the need arises lities a second (2nd) time within the project limits (e.g. landscape, drainage or systems plans) as a convenience and reminder to the contractor/sub-contractor al conflict, the weight of the utility line for the 2nd depiction may be reduced b de-emphasize the utility line in comparison to project work.

generic line style for representing an irrigation conduit within the limits of the the utility plan sheets.

generic line style for representing electrical systems conduit within the limits bed on the utility plan sheets.

tility feature points (e.g. manholes, pullbox, cabinet, power pole, etc.) that are ans right of way, are to be placed on the correct level for the type of utility it (e.g. gas manhole cover on same level as gas line style).

	Use appropriate SHEET NAME AND ID CODE. CADD user's manual section 2.1.:	See
	FT=43, TX=14.5, WT=0, LV=border_INSIDE-BOR UPPER CASE Text may be reduced to a minimum of TX=	
	where space constraints are involved. For text sizes see CADD user's manual section 2.6.1.	
se	u scale for the plan view section 2-1.3 of the PPM. Drd "SCALE".	DA
	border_INSIDE-BORDER-anno(10), ■ SCALE: 1" = 50' U-XX	LAST REVISION
	PROJECT NUMBER & PHASE 000000	00001

**D** 

		NOTES: 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT	ABBREVIATIONS:
Image: Provide state of the register of the r	SSFM SANITARY SEWER FORCE MAIN		
×			
		3. UTILITY OWNERSHIP:	
	0	SEWER - CITY OF LINCOLN	each utility line. Full name of owner and associated are to be identified identifying each owner may be shown in notes (owner individual plan sheets
	DATE REVISE	TELEPHONE – AMERICAN TELEPHONE & TELEGRAPH (AT&T) FIBER OPTIC – SUREWEST	See Example "65 U-7"
		FIBER OPTIC - QWEST	
×		TO MINIMUM 42" BELOW GRADING PLANE BETWEEN	
			UNION PACIFIC RAILROAD COMMUNICATION LINE
	- ×		
CNED	CKED		
CALC	CHE	OOOOO	8 MORGAN OIL LINE 
×			
SOR		7	
PERVIS		SUREWEST FIBER OPTIC	
CTION/		ABANDONED AT&T TELEPHONE	FIBER OPTIC
FUNG		AT&T TELEPHONE	FIBER OPTIC TO BE ADJUSTE
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SPORT		POSITIVE LOCATION INFORMATION	
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RTMEN			135.7 4.1 ELECTRONIC DETECTION
DEPA			
1	e		
ORNIA	5		
× CALIF	tra	THIS FXAMPLE IS ONE OF MANY FXAMPLES OF	
E OF	3	THE VARIOUS TYPES OF PROJECT PLAN SHEETS FROM THE SAME CONSTRUCTION PROJECT,	UTILITY PLAN SHEET, EXAMPLE "65 U-1")
STAT	ť	"ROUTE 65 BYPASS PROJECT."	TO BE USED FOR UTILITY INFORMATION ONLY
		USERNAME => s111271	



# UTILITY PLAN SHEET, EXAMPLE "65 U-1"

2

TO BE USED FOR UTILITY INFORMATION ON	ľĽΥ
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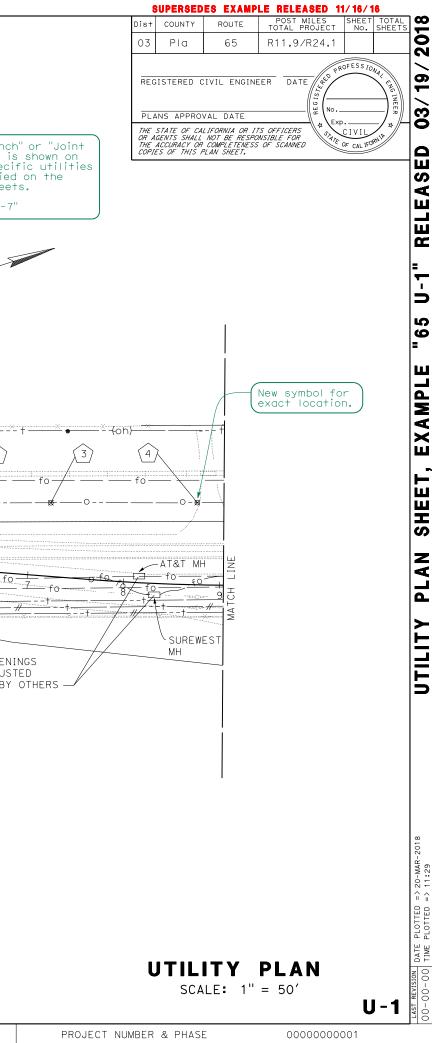
RELATIVE BORDER SCALE IS IN INCHES

BORDER LAST REVISED 7/2/2010

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USERNAME =>s111271 DGN FILE =>ka-65 U-001 Mar2018.dgn

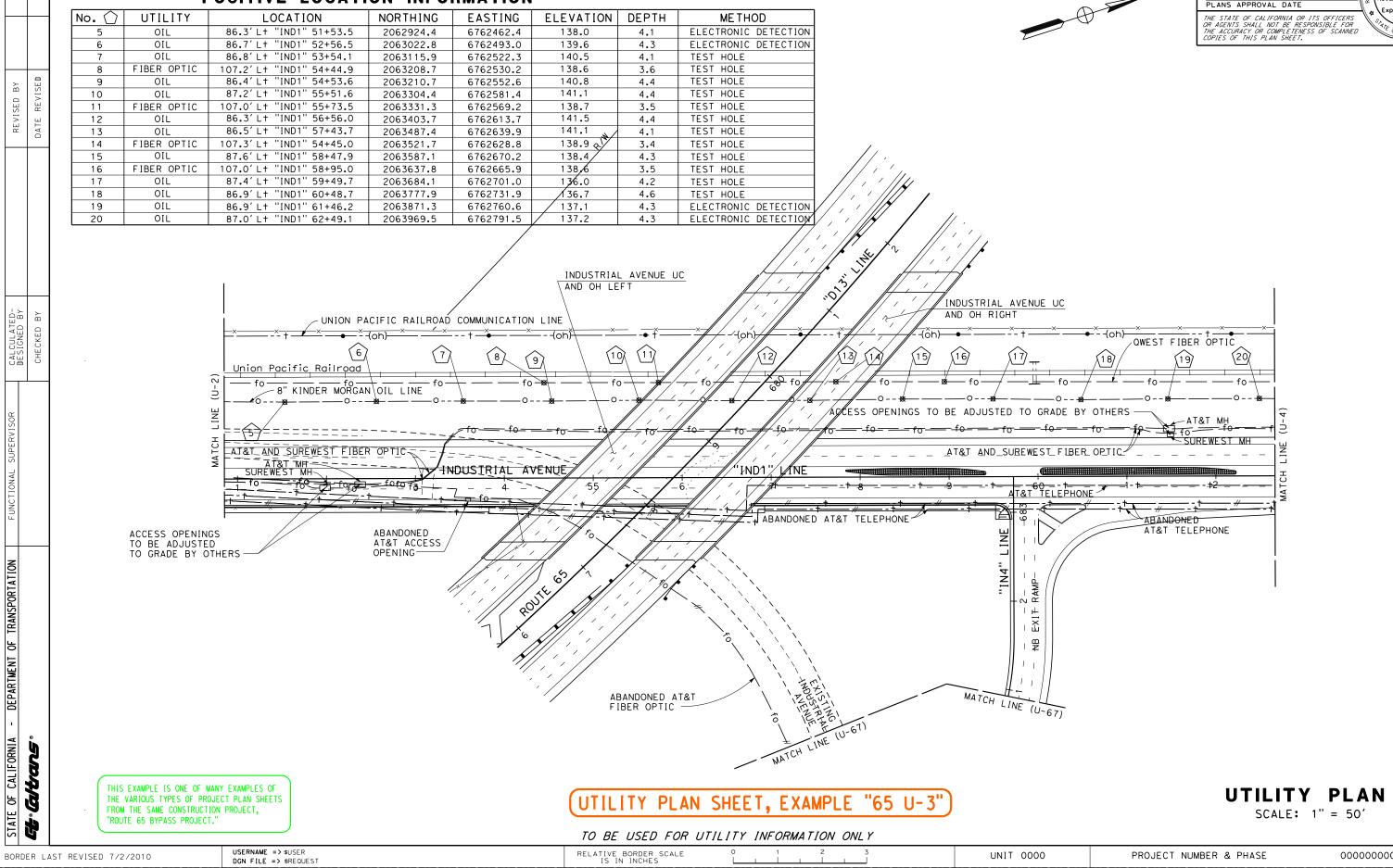
UNIT 0000



### NOTE:

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

### **POSITIVE LOCATION INFORMATION**



		SUPERSE	DES EXAMI	PLE RELEASED	1/ 6/ 12	
	Dis†	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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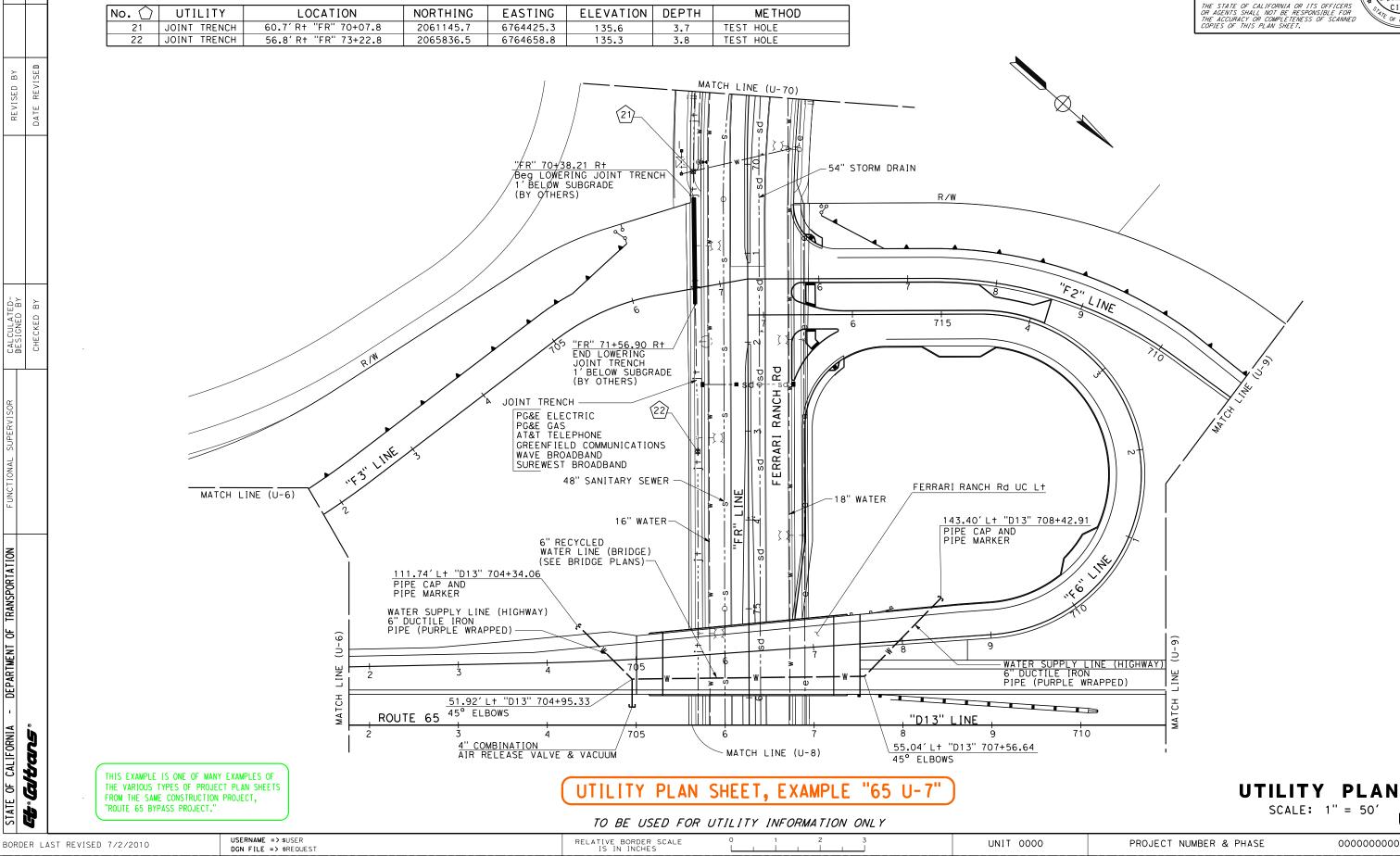
**CALIFORNIA** 

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STATE

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

### **POSITIVE LOCATION INFORMATION**





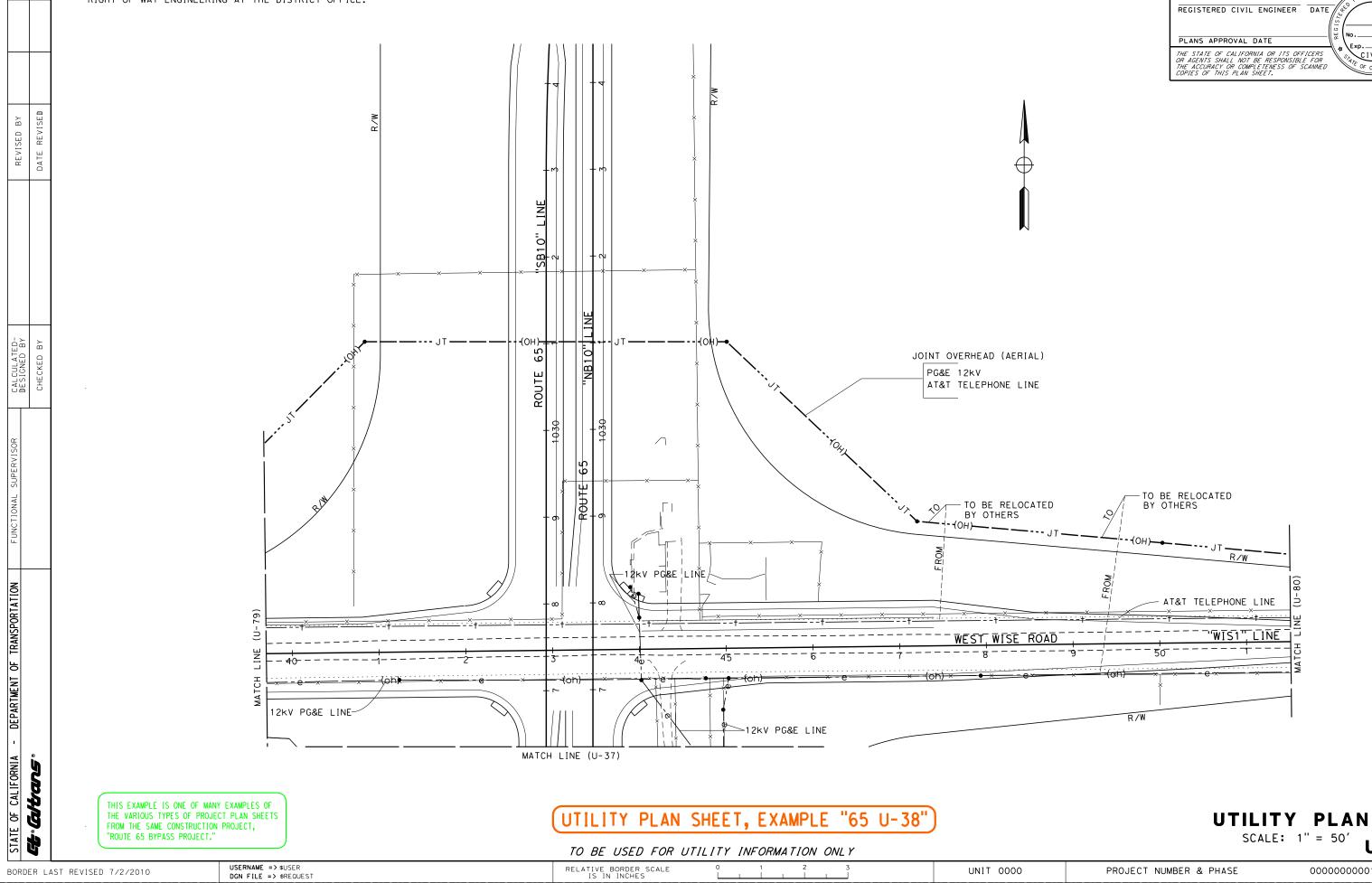
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FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



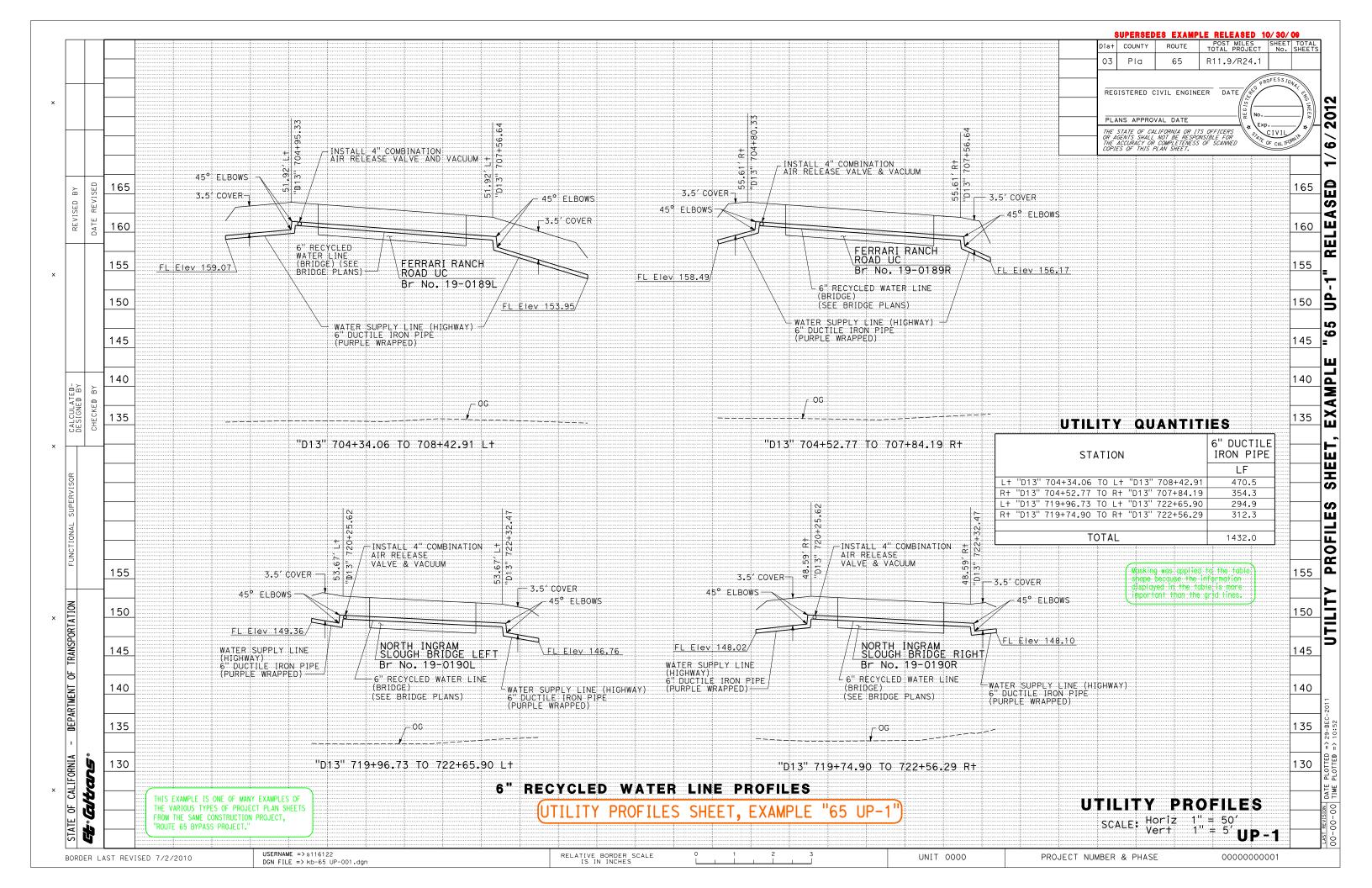
		SUPERSE	DES EXAM		1/6/1		
	Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS	16
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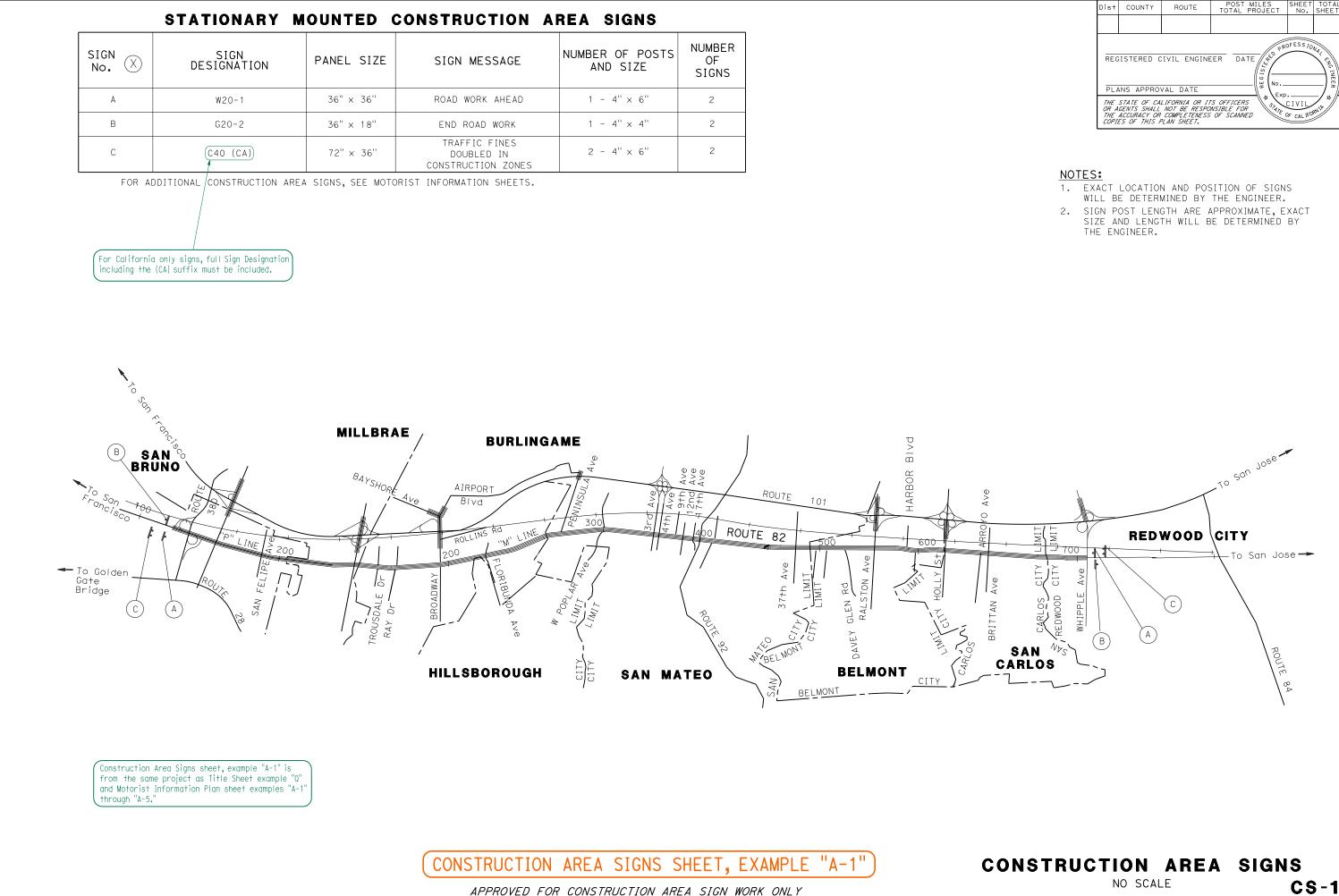
DATE PLOTTED => \$DATE TIME PLOTTED => \$TIME

PROJECT NUMBER & PHASE

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BORDER	LAST REVISED 7/2/2010	USERNAME =>s111271 DGN FILE => CAS_Example_A1.dgn	RELATIVE BORDER SCALE IS IN INCHES	UNIT 0000

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### SUPERSEDES EXAMPLE RELEASED 3/16/12

	Dis†	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS			
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EXAMPLE

SHEET,

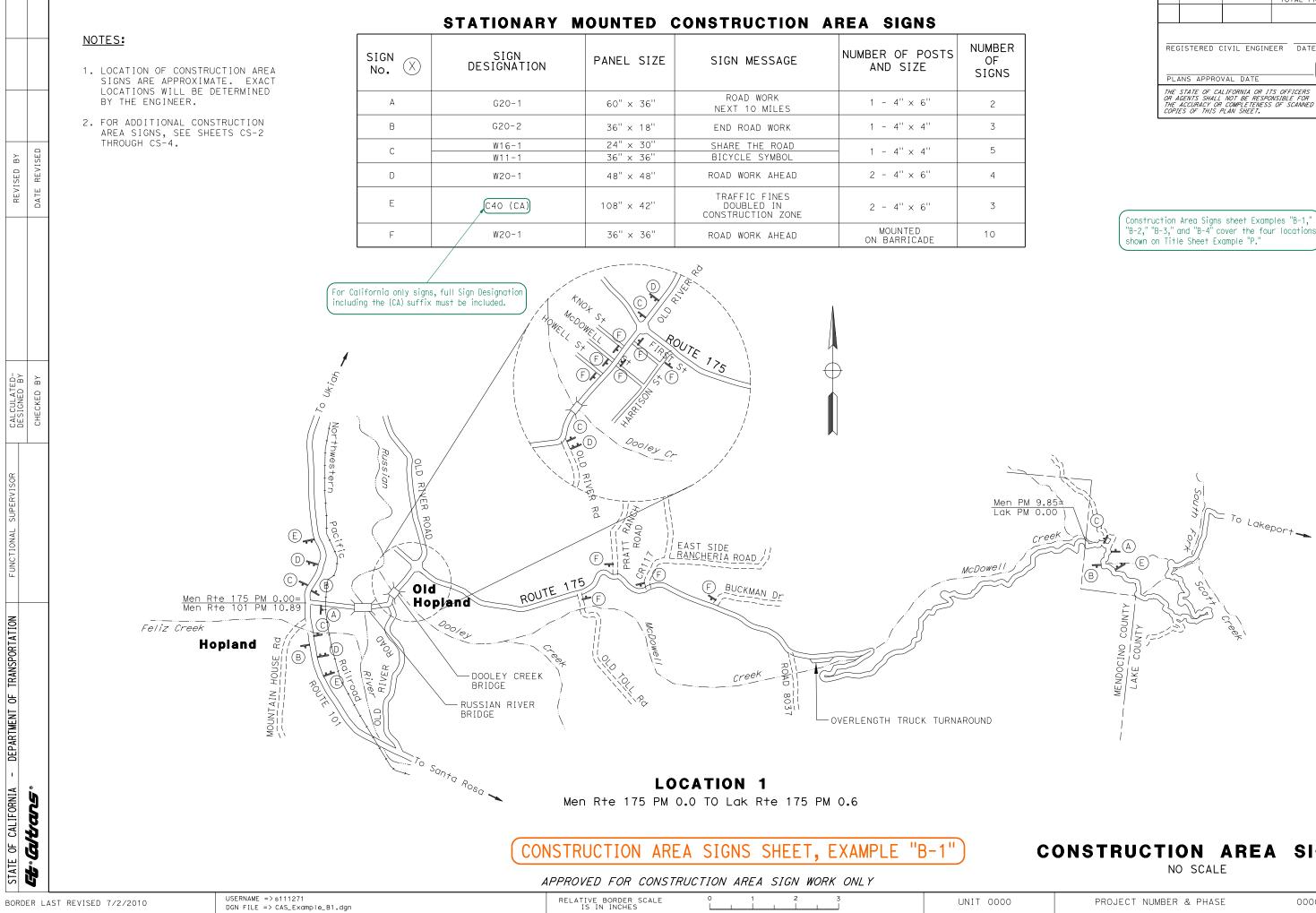
SIGNS

AREA

-MAR-201CONSTRUCTION

PROJECT NUMBER & PHASE

00000000001



### SUPERSEDES EXAMPLE RELEASED 7/7/11

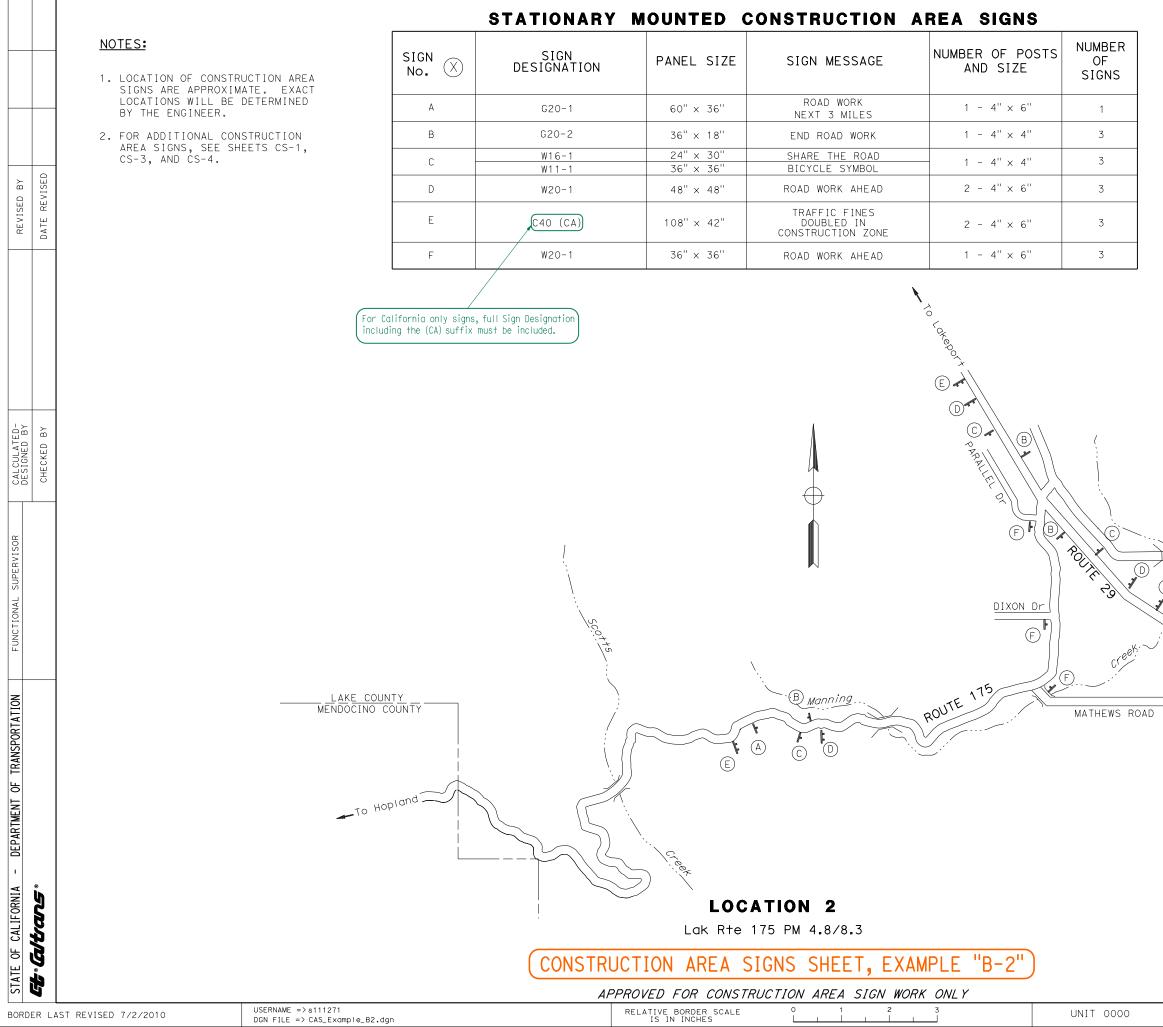
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"E	3-3," (	Area Signs and "B-4" ca e Sheet Ex	sheet Examp over the fou ample "P."	ples "B-1," ir locations			"B-1" R

**CONSTRUCTION AREA SIGNS** CS-1

SHEET, EXAMPLE

SIGN

CONSTRUCTION AREA



### SUPERSEDES EXAMPLE RELEASED 7/7/11

	Dis†	COUNTY	ROUTE	POST MI TOTAL PR		SHEET No.	TOTAL SHEETS	
					PR	DFESSIO	No.	18
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	OR A THE	GENTS SHALL	NOT BE RESPO COMPLETENESS	WSIBLE FOR	STATE O	CIVIL OF CALIFO	ANIA	3/
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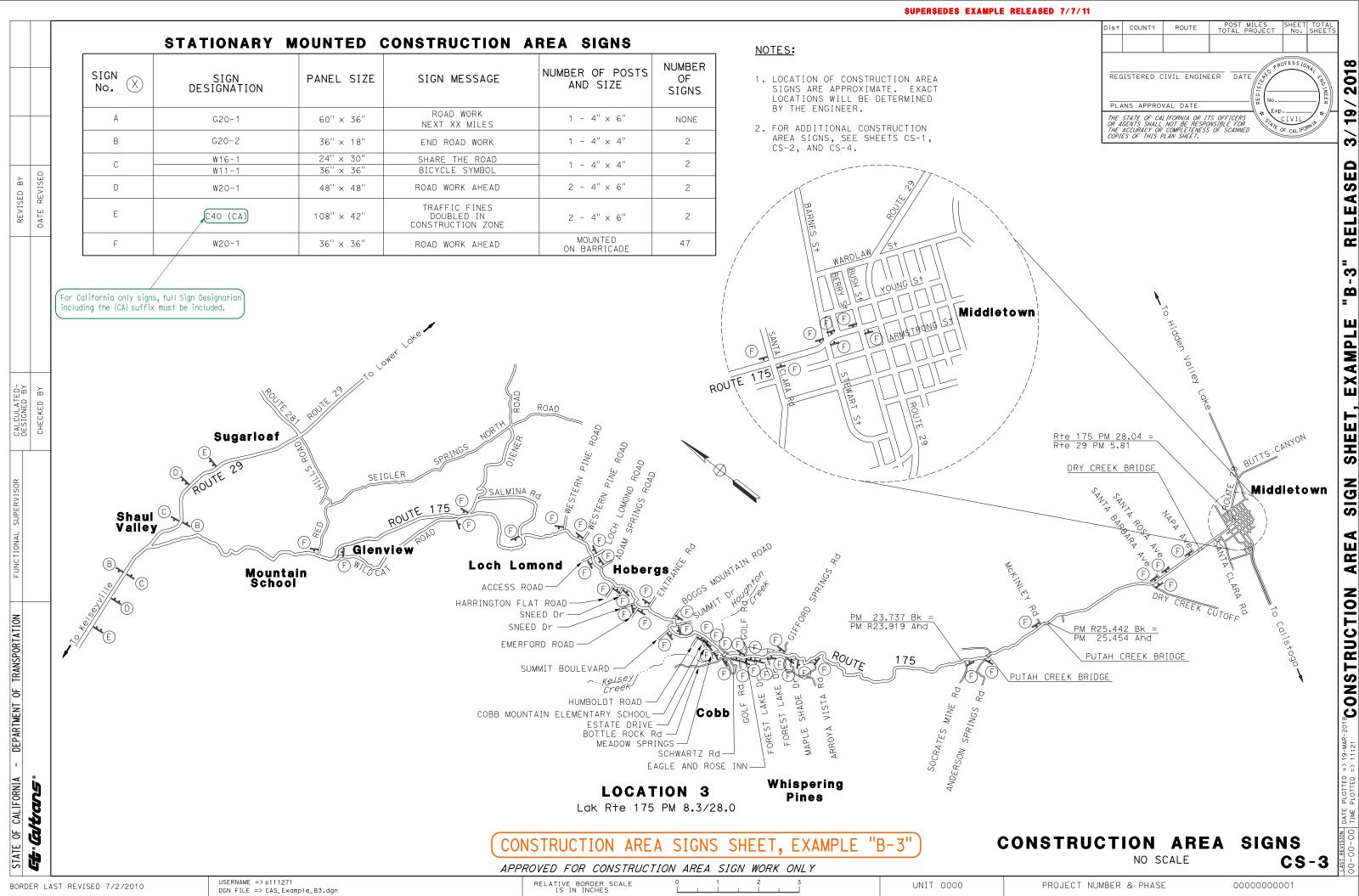
### **CONSTRUCTION AREA SIGNS** NO SCALE **CS-2**

PROJECT NUMBER & PHASE

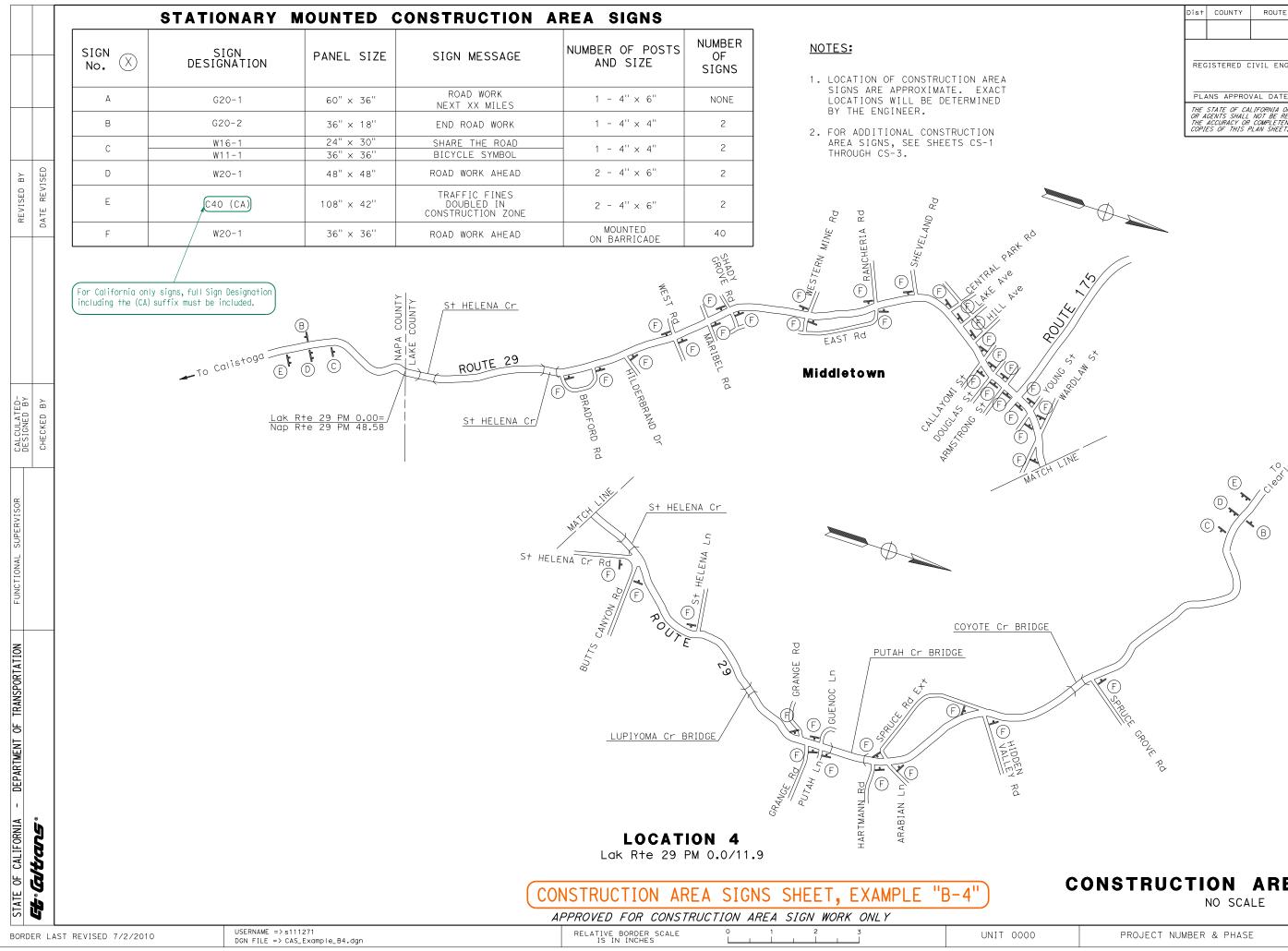
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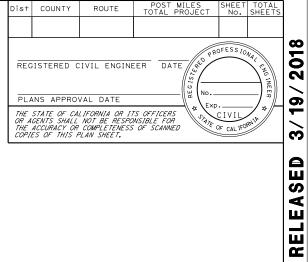
SIGN SHEET, EXAMPLE

2018 CONSTRUCTION AREA



SUPERSEDES EXAMPLE RELEASED 7/7/11





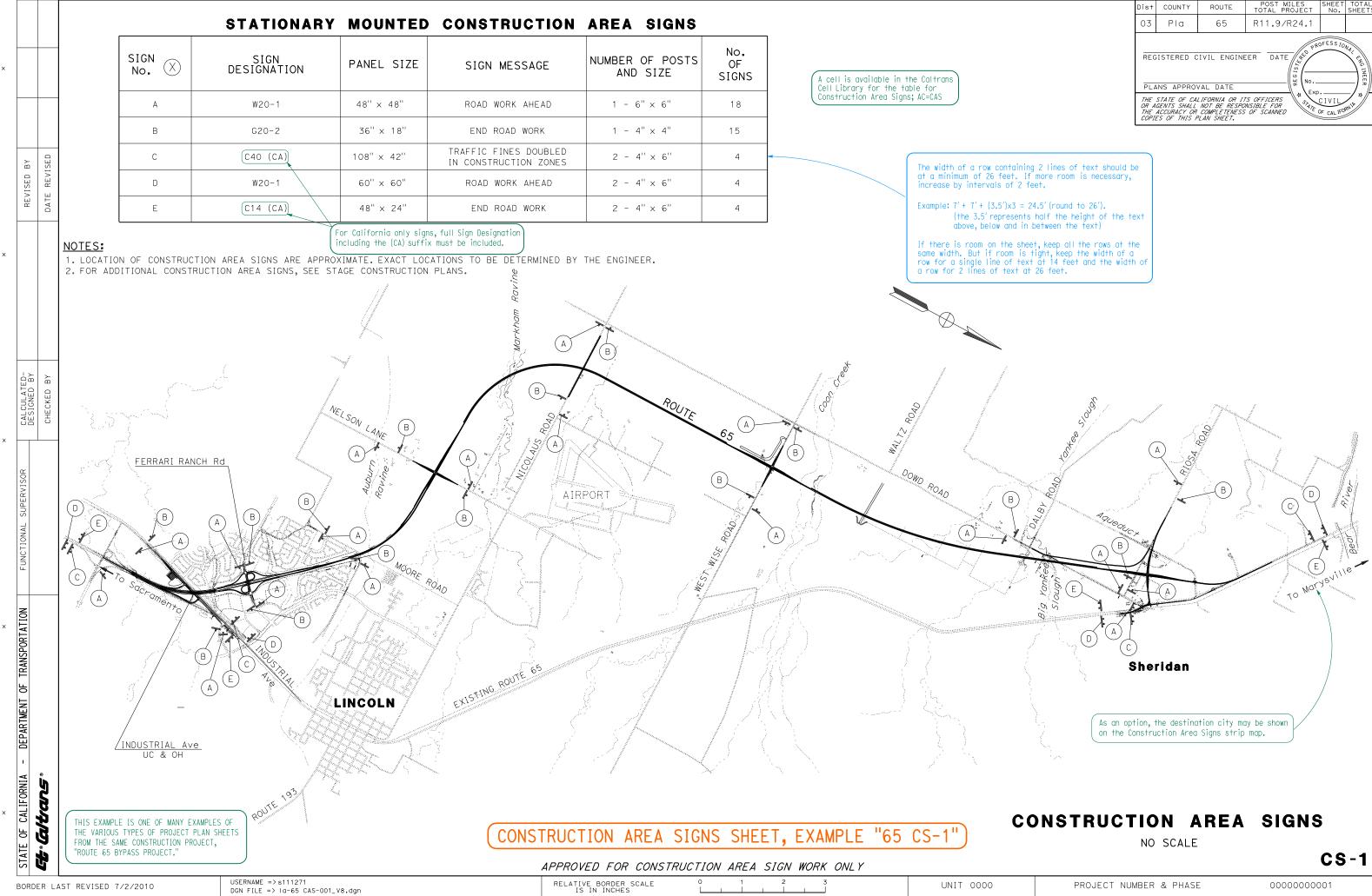
"B-4"

SHEET, EXAMPLE

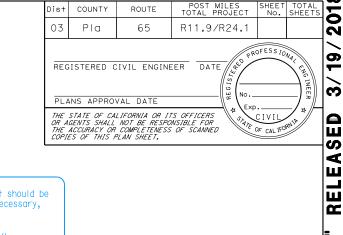
SIGN

2018 CONSTRUCTION AREA

## **CONSTRUCTION AREA SIGNS CS-4**



### SUPERSEDES EXAMPLE RELEASED 01/06/12



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Motorist Information Plan sheet examples "A-1" through "A-5" are from the same project as Title Sheet example "Q" and Construction Area Signs sheet example "A-1."

SIGN No. (#)	SIGN DESIGNATION	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
1	W20-2	48" × 48"	DETOUR AHEAD	1 - 4" × 6"	8
2	M4-8a	24" × 18"	END DETOUR	1 - 4" × 4"	8
3	SC6-4(CA)	48" × 60"	RAMP CLOSED	1 - 6" × 6"	8
-	M4-8	30" × 15"	DETOUR		
4	M3-4	24" x 12"	WEST	1 - 4" x 6"	2
4	G27-2(380)(CA)	30" × 25"	ROUTE SHIELD 380		2
	M6-3( 🕈 )	21" x 15"	UP ARROW		
	M4-8	30" × 15"	DETOUR	_	
5	M3-4	24" × 12"	WEST	1 - 4" × 6"	3
5	G27-2(380)(CA)	30" × 25"	ROUTE SHIELD 380		5
	M6-3(≯)	21" x 15"	RIGHT ARROW		
	M4-8	30" x 15"	DETOUR	_	
6	M3-4	24" × 12"	WEST	1 - 4" × 6"	1
	G27-2(380)(CA)		30" × 25" ROUTE SHIELD 380		I
	M6-1(←)	21" × 15"	LEFT ARROW		
	M4-8	30" × 15"	DETOUR	1 - 4" × 6"	0
7	G28-2(82)(CA)	24" × 25"	ROUTE SHIELD 82		2
	<u>M6-3(♠)</u> M4-8	21" x 15" 30" x 15"	UP ARROW DETOUR		
8	G28-2(82)(CA)	24" x 25"	ROUTE SHIELD 82		4
°	M6-2(7)	24 x 25 21" x 15"	UP RIGHT ARROW	1 - 4" × 6"	4
	MO_2(7)	30" x 15"	DETOUR		
9	G28-2(82)(CA)	24" x 25"	ROUTE SHIELD 82	1 - 4" × 6"	2
5		21" x 15"	LEFT ARROW		2
	M4-8	30" x 15"	DETOUR		
10	Spec 1	54" x 18"	E 3RD AVE	1 - 4" × 6"	1
	M6-3(♠)	21" x 15"	UP ARROW	1	I
	M4-8 30" x 15" DE TOUR				
11	Spec 1	54" × 18"	E 3RD AVE	1 - 4" × 6"	3
	M6-2( 🛪 )	21" × 15"	UP RIGHT ARROW		
	M4-8	30" x 15"	DETOUR		
12	Spec 2	54" × 24"	SAN BRUNO AVENUE	1 - 4" × 6"	6
F	M6-3( ♠ )			1	
	M4-8	30" × 15"	DETOUR		
13	Spec 2	54" × 24"	SAN BRUNO AVENUE	1 - 4" × 6"	3
	M6-2( 🛪 )	21" × 15"	UP RIGHT ARROW		
	M4-8	30" × 15"	DETOUR		
14	Spec 2	54" × 24"	SAN BRUNO AVENUE	1 - 4" × 6"	3
F	M6-1( 🗲 )	21" × 15"	LEFT ARROW	1	
	M4-8	30" × 15"	DETOUR		
15	Spec 5	54" × 24"	E HILLSDALE BLVD	1 - 4" × 6"	1
_	M6-3( ♠ )	21" x 15"	UP ARROW	4	

### STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

### 'STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. ⊕	SIGN DESIGNATION	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	M4-8	30" × 15"	DETOUR		
16	Spec 5	54" × 24"	E HILLSDALE BLVD	1 - 4" × 6"	3
-	M6-2( 🛪 )	21" × 15"	UP RIGHT ARROW		
	M4-8	30" × 15"	DETOUR		1
17	Spec 5	54" × 24"	E HILLSDALE BLVD	1 - 4" × 6"	
	M6-1 ( <del>&lt;</del> )	21" × 15"	LEFT ARROW		
	M4-8	30" × 15"	DETOUR		
18	Spec 3 54" × 18" DELAWARE ST 1 - 4" × 6"		2		
	M6-3(♠)	21" x 15"	UP ARROW		
	M4-8	30" x 15"	DETOUR		_
19	Spec 3 54" x 18		DELAWARE ST	1 - 4" × 6"	3
	M6-2( 🛪 )	21" × 15"	UP RIGHT ARROW		
_	M4-8	30" × 15"	DETOUR		
20	Spec 4	54" × 24"	MILLBRAE AVENUE	1 - 4" × 6"	2
	M6-3( ♠ )	21" x 15"	UP ARROW		
	M4-8	30" × 15"	DETOUR		+
21	Spec 4			1 - 4" × 6"	3
	M6-1( 🗲 )	21" × 15"	LEFT ARROW		
	M4-8	30" × 15"	DETOUR		
22	Spec 4	54" × 24"	MILLBRAE AVENUE	1 - 4" × 6"	1
	M6-2(🖛)	21" × 15"	UP RIGHT ARROW	7	

For California only signs, full Sign Designation including the (CA) suffix must be included.

### Spec 1 E. 3RD AVE 5" CAPS BLACK/ORANGE 54" × 18"



"A-1"

For California only signs, full Sign Designation including the (CA) suffix must be included.

MOTORIST INFORMATION PLAN SHEET, EXAMPLE

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BORDER LAST REVISED 7/2/2010

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REVISED DATE

CALCULATED-DESIGNED BY СНЕСКЕД ВУ

DEPARTMENT OF TRANSPORTATION

**CALIFORNIA** 

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UNIT 0000

Dist COUNTY ROUTE POST MILES SHEET TOTAL TOTAL PROJECT No. SHEETS									
REGISTERED CIVIL ENGINEER									
PLANS APPROVAL DATE									
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.									

Spec 3 5" CAPS DELAWARE ST BLACK/ORANGE 54" × 18'

Spec 4 MILLBRAE 5" CAPS AVENUE BLACK/ORANGE 54" x 24"

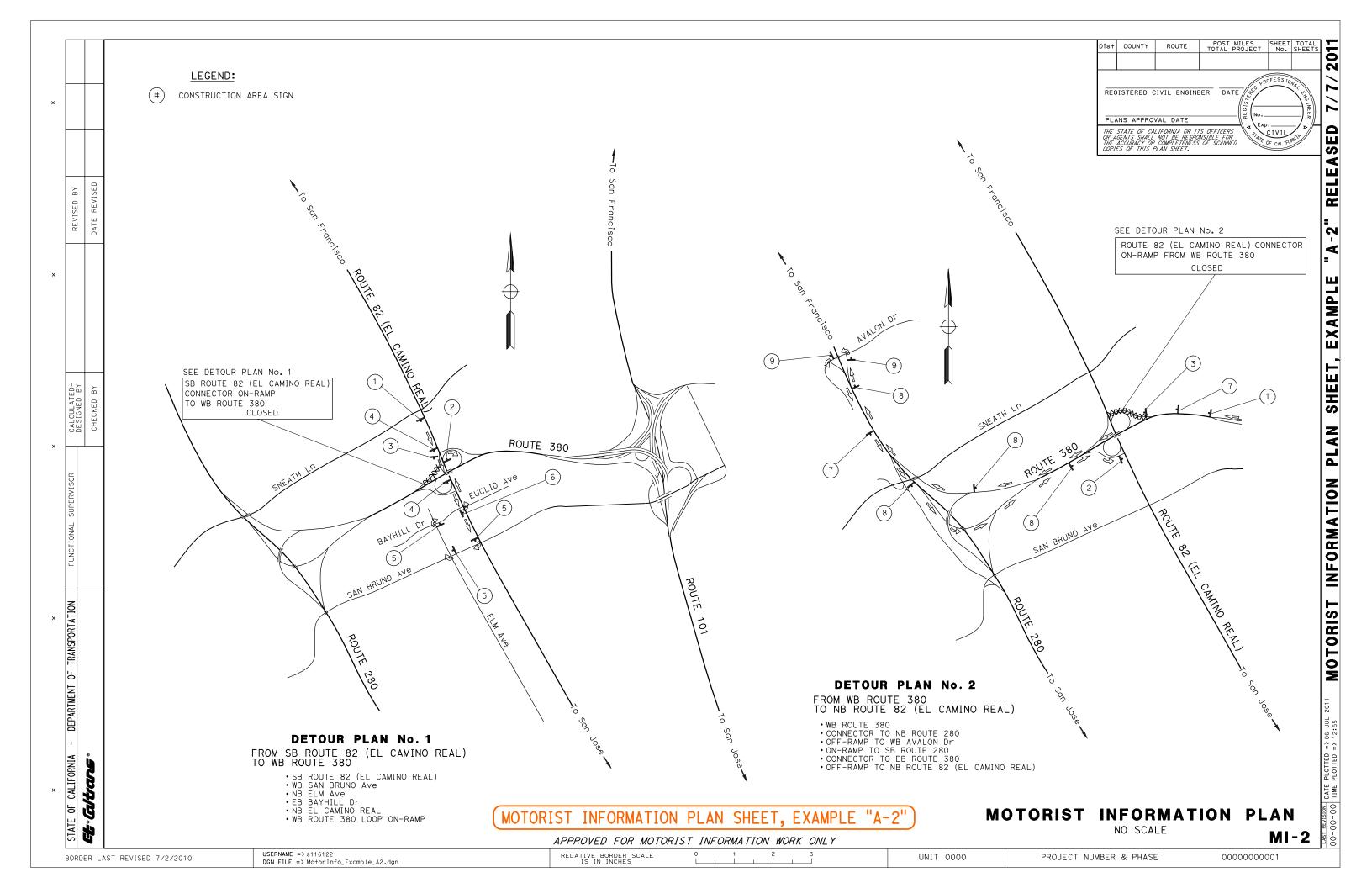
Spec 5

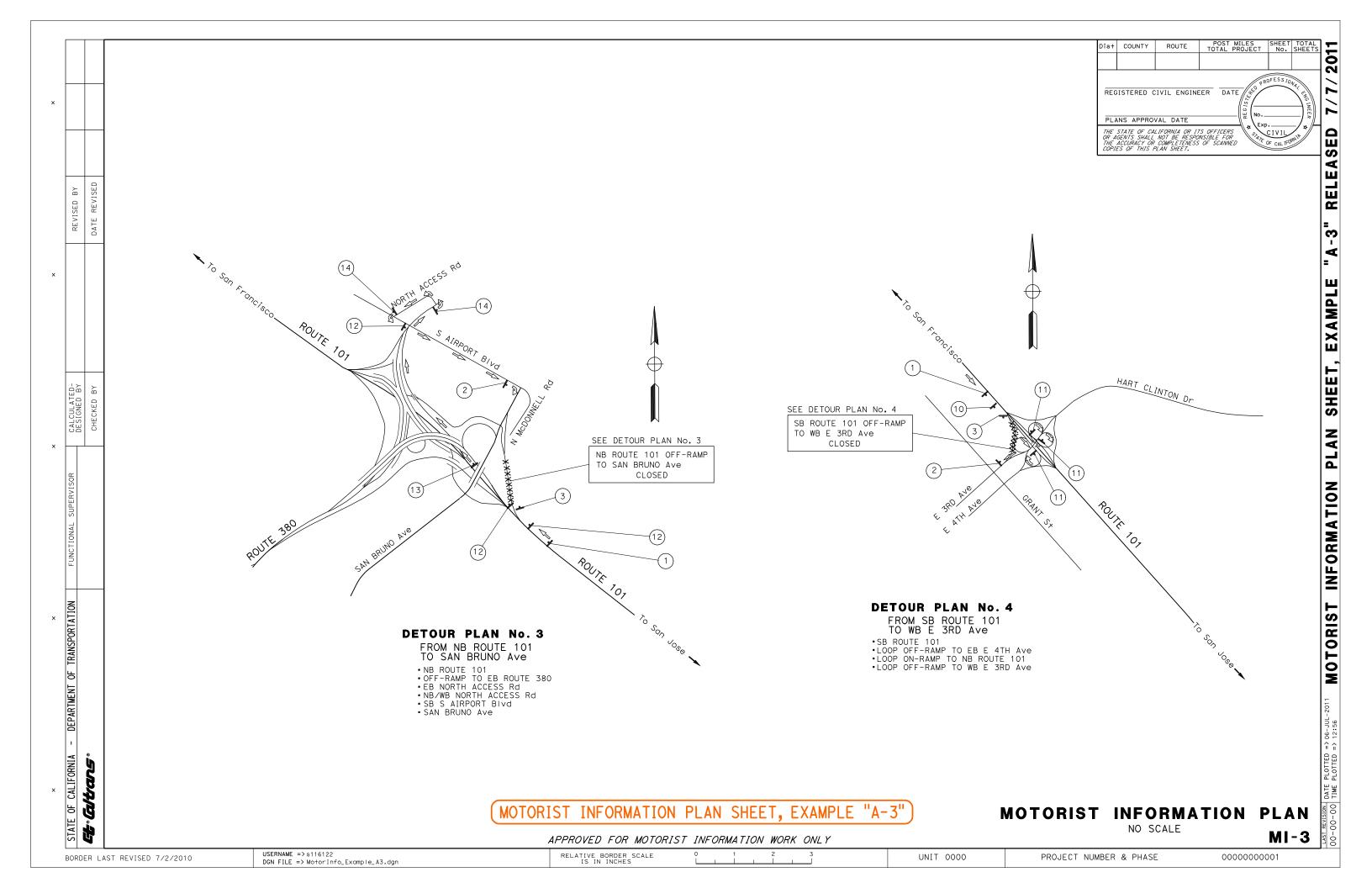
E. HILLSDALE 5" CAPS BLVD BLACK/ORANGE 54" × 24"

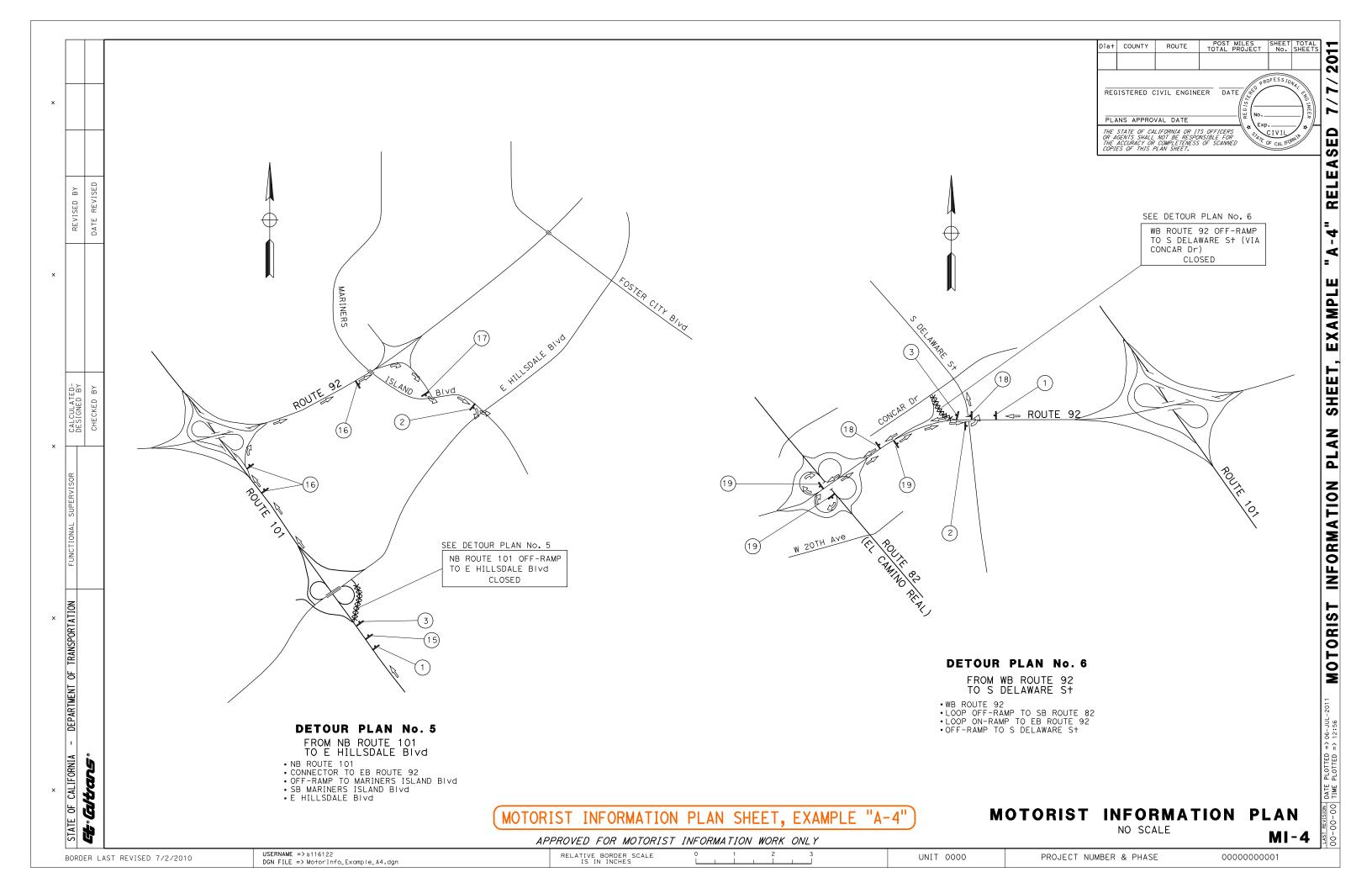
### **MOTORIST INFORMATION PLAN** NO SCALE MI-1

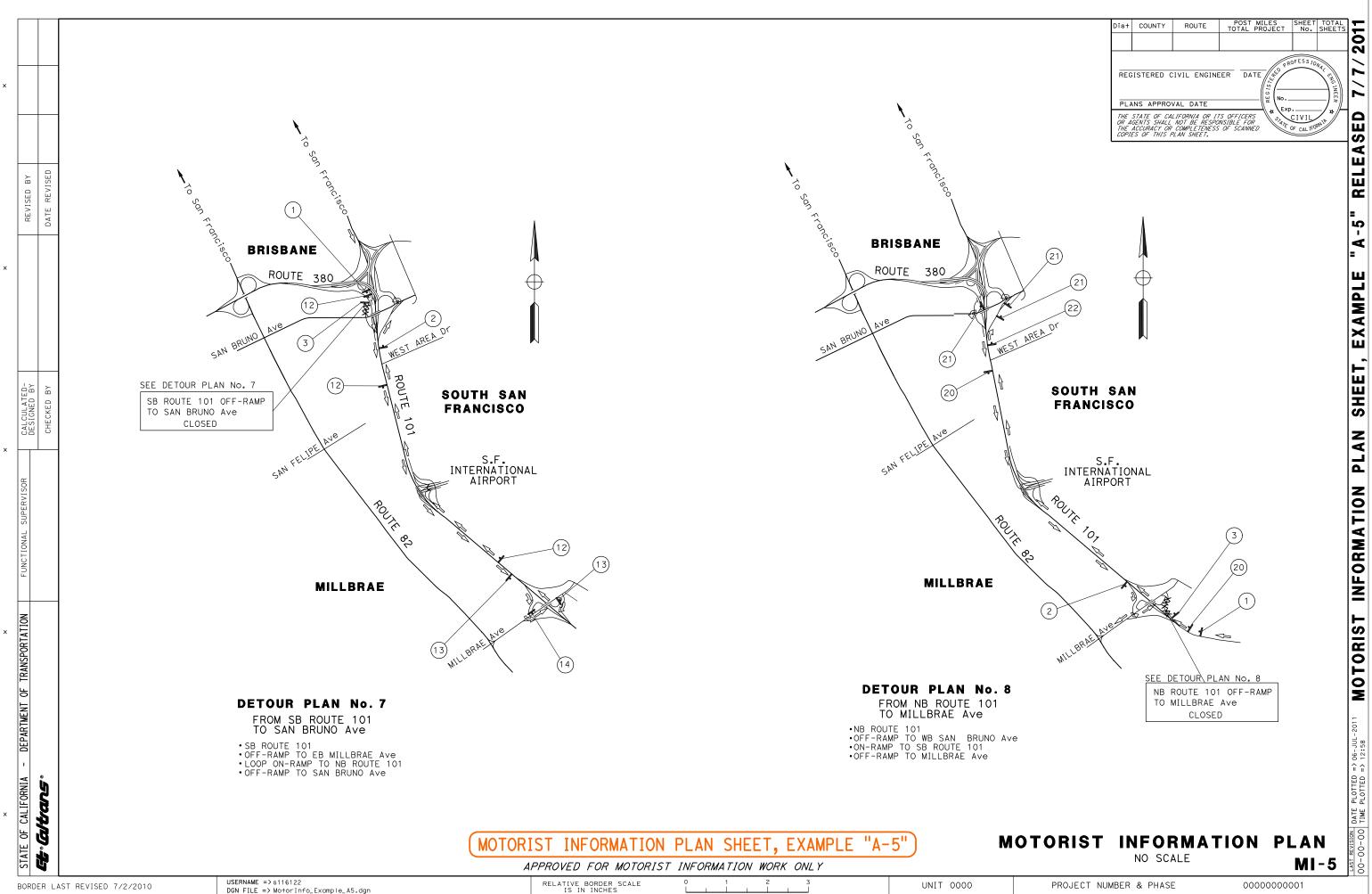
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state of california - D	DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED- DESIGNED BY CHECKED BY	REVISED BY DATE REVISED	· · · · ·
GENERIC STAGE CONSTRUCTION/TRAF BASIC INFORMAT APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC H	SHEET ID: SC-XX SHEET NAME: STAGE CONSTRUCTION PLAN CTCELLIB_NamedLevels.cel cell library <i>APPROVED FOR STAGE CONST</i> SHEET ID: SC-XX SHEET NAME: TRAFFIC HANDLING PLAN CTCELLIB_NamedLevels.cel cell library <i>APPROVED FOR TRAFFIC HAND</i> SHEET ID: TH-XX	<ul> <li>3. Existing roadbeds and those roadbeds constructed in the previous stages are shown as dropped out (example: Stage 1 construction is shown as existing on plan sheets for Stage 2 work since the work from prior stage or sequence is already built).</li> <li>4. When barriers are used as Positive Workzone Protection (PWP) devices, showing a typical section may be required to show the lateral location of the PWP devices in relation to the work area and the edges of traveled way.</li> <li>5. Existing roads or detours replaced by permanent construction in the previous stages are not shown in subsequent stages.</li> <li>Refer to the following website for additional information about Manual for Assessing Safety Hardware (MASH) implementation:</li> </ul>	<ul> <li>Stage construction and traffic handling plans are included in project plans, if staging of the work or shifting of traffic within the limits of the project is needed and is permitted by the lane closure charts.</li> <li>Stage construction and traffic handling plans may include, as applicable to the project, temporary drainage, temporary signing, temporary pavement delineation, temporary crash cushions, work zone safety mitigation as appropriate and temporary lighting requirements.</li> <li>The first sheet of the stage construction plans usually contains notes, legends, symbols, and a list of abbreviations.</li> <li>Base mapping for the project is used as background for the first stage of these plans. Subsequent stage(s) will use the completed work within the work area of the previous stage, and the remaining base mapping, when applicable as the background.</li> <li>Each stage shown on the stage construction plans show the sequence of construction by symbols (crosshatching, hatching, etc.) The symbology used is defined and included in a legend.</li> <li>Typically, the information shown on the plan sheets includes the following: <ol> <li>Work to be performed in the current stage/phase using solid lines.</li> <li>Traffic direction, number of lanes and lane widths available during each stage.</li> </ol> </li> </ul>	NOTE: FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE. Where right of way is shown on a plan view sheet (layout, drainage, electrical), include this note. Typically, the right of way note is placed in the upper left corner of the sheet. CTCELLIB.cel: AC=NOTE2, TEXT: FT=3, TX=7, WT=1, LV=rd_RIGHT-OF-WAY-anno (23), Upper Case Right of way shown on a plan view sheet must be depicted with a solid line.	
ION	y, cell name - NOTE 7: <i>RUCTION WORK ONLY</i> y, cell name - NOTE 8:	TRAFFIC HANDLING PLAN	<ul> <li>section views for each lane configur section views should include informa clearances from barriers and the lo</li> <li>Show both the initial and the final lo each configuration.</li> <li>Include information in a table on the begin/end time and/or days when the</li> <li>Storage location of the vehicles use plan sheets along with any devices use areas.</li> <li>Refer to Movable Barrier System Guid https://construction.onramp.dot.ca.gov/downloads/cons</li> <li>When using PWP barriers in areas with of 1. Show section views with difference more than two inches.</li> <li>Show additional section views with v roadways and existing permanent fex</li> <li>Show callouts for begin and end point</li> </ul>	When using a concrete movable barrier 1. When beg/end times and/or days of 1 section views for each lane configur	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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	SUPERSEDES EXAMPLE RELEASED 6/29/21							
	Dis†	COUNTY	ROUTE	POST MILES TOTAL PROJE		TOTAL SHEETS		
	REGISTERED CIVIL ENGINEER PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.							

### as PWP device:

Iane configuartion(s) is not included with the SSPs, show ration that applies between station limits. These typical ation such as lane width available for traffic movement, ocation of work relative to the barrier location.

ocations of the movable barrier on the plan sheets for

plan view along with typical sections views about the configurations applies.

ed for moving the barrier should be clearly shown on the used to protect these vehicles stored in the designated

delines available at the following location: truction/files/Bid%20%20Items/Movable%20Barrier%20Systems%20Guidelines%2020210309.pdf

drop in surface elevation behind the barrier: in elevation information if the difference in elevation is

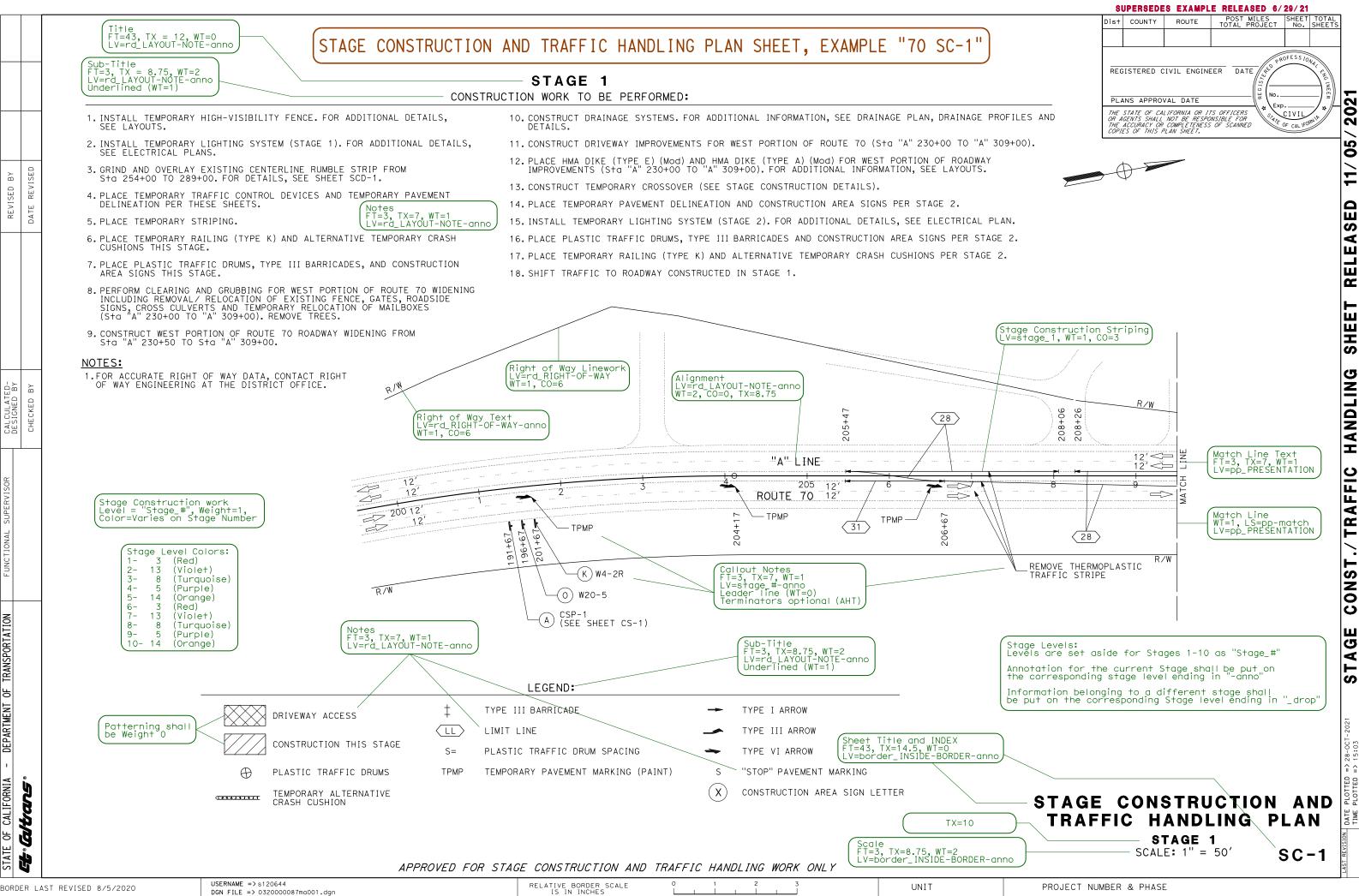
vertical/horizonal clearance information between temporary atures like structures or signs. nts of stationing for all barrier tapers along with offset

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# STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1'' = 50'

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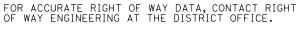
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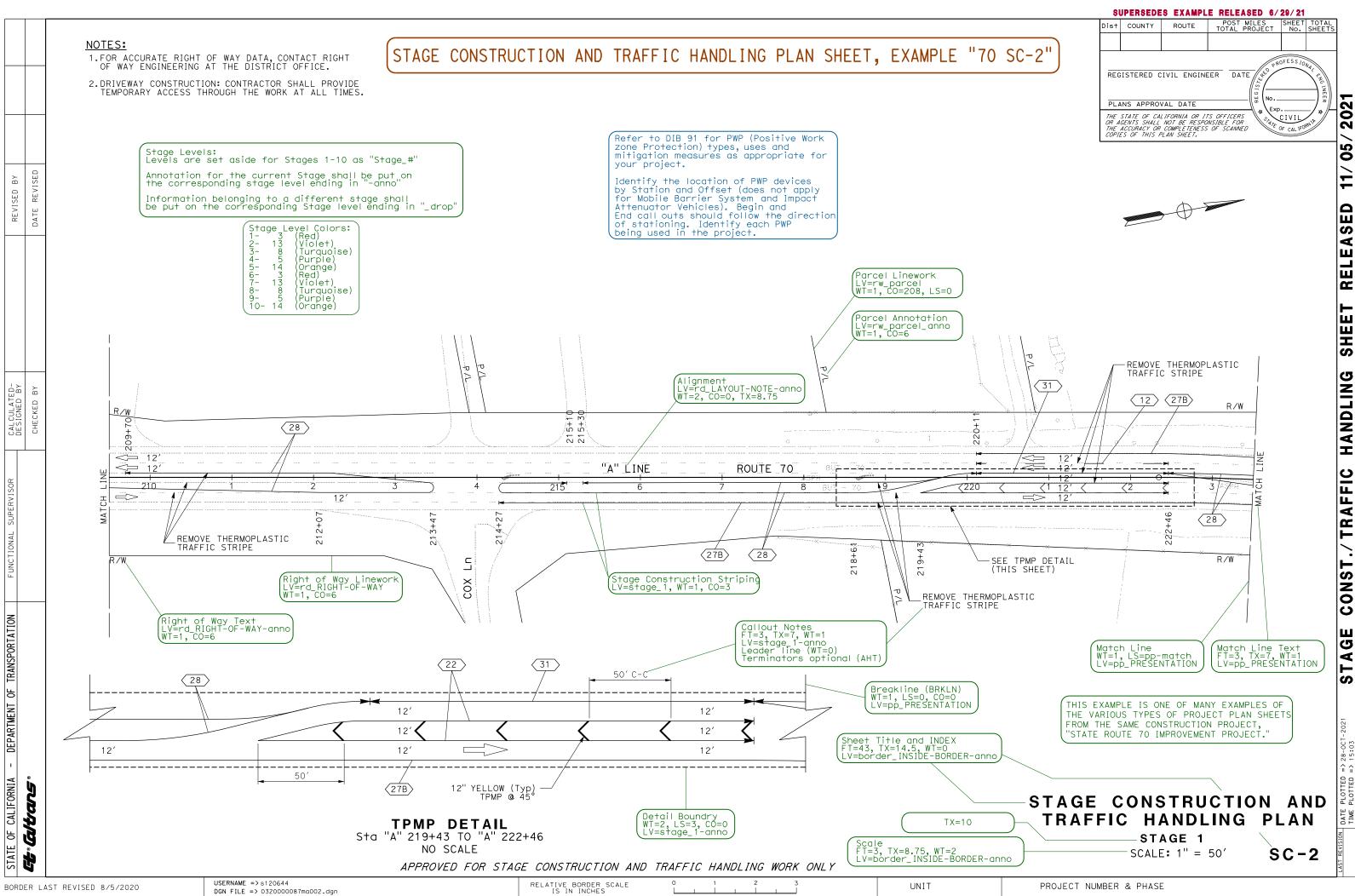
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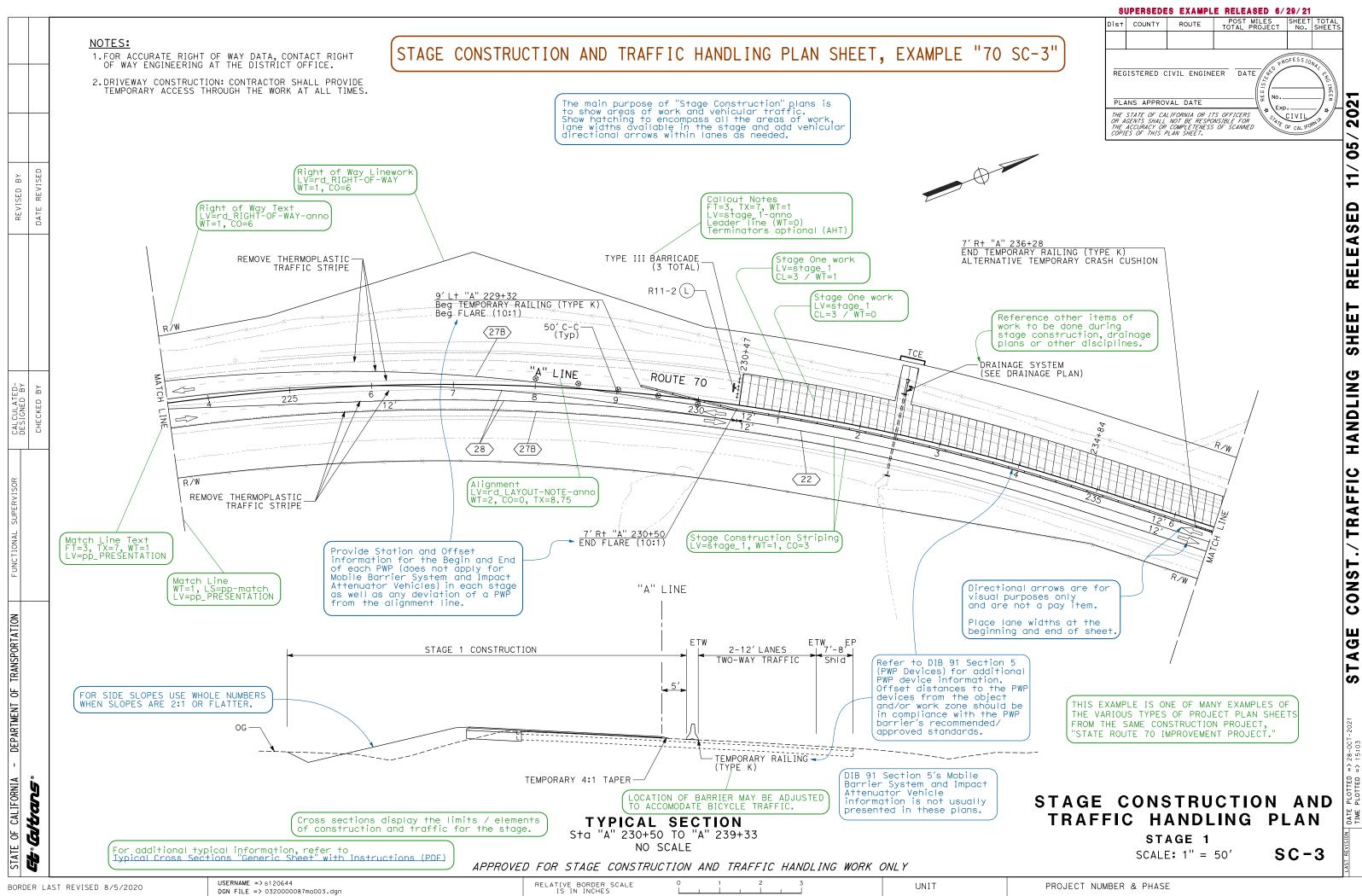
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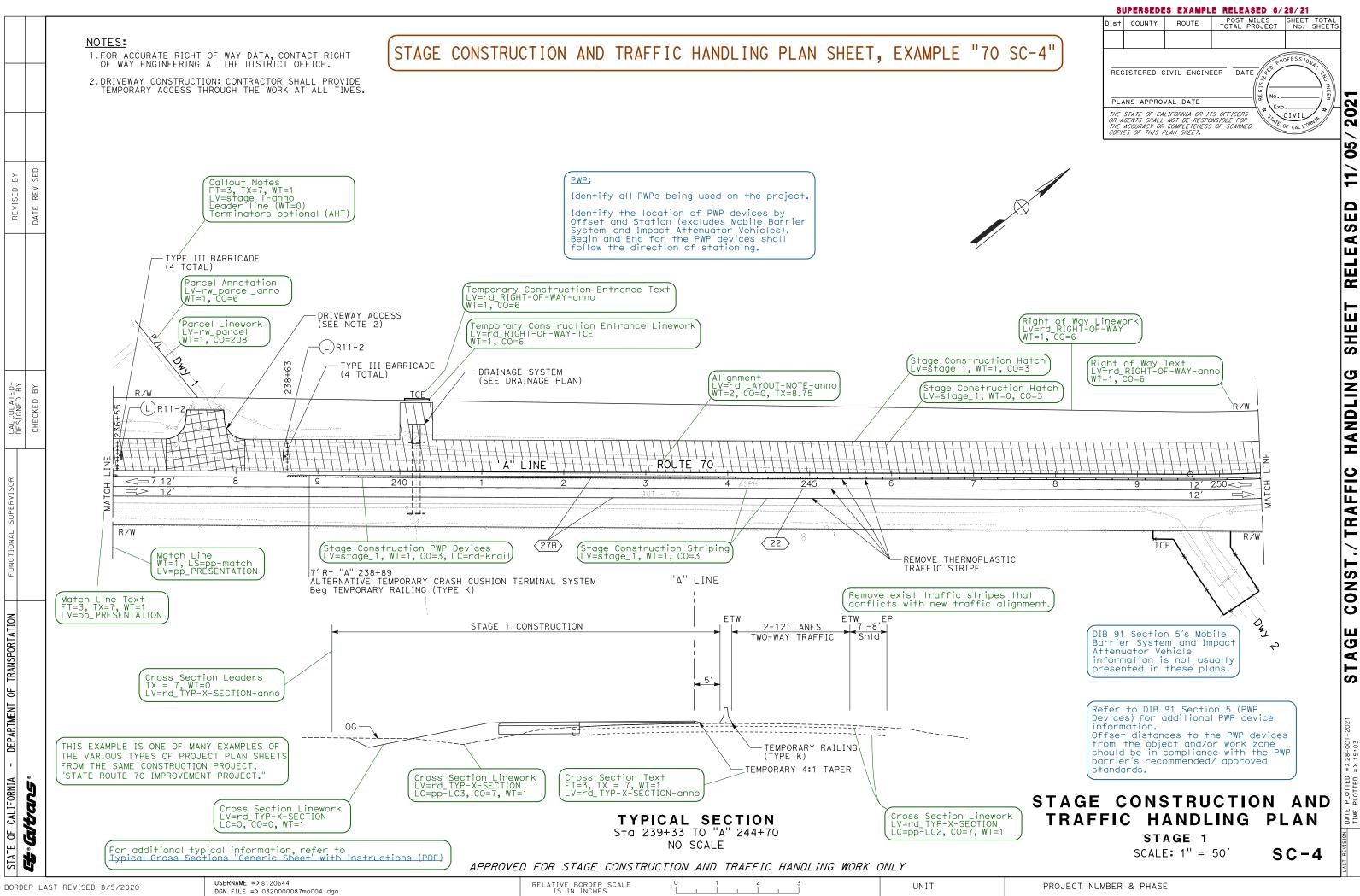
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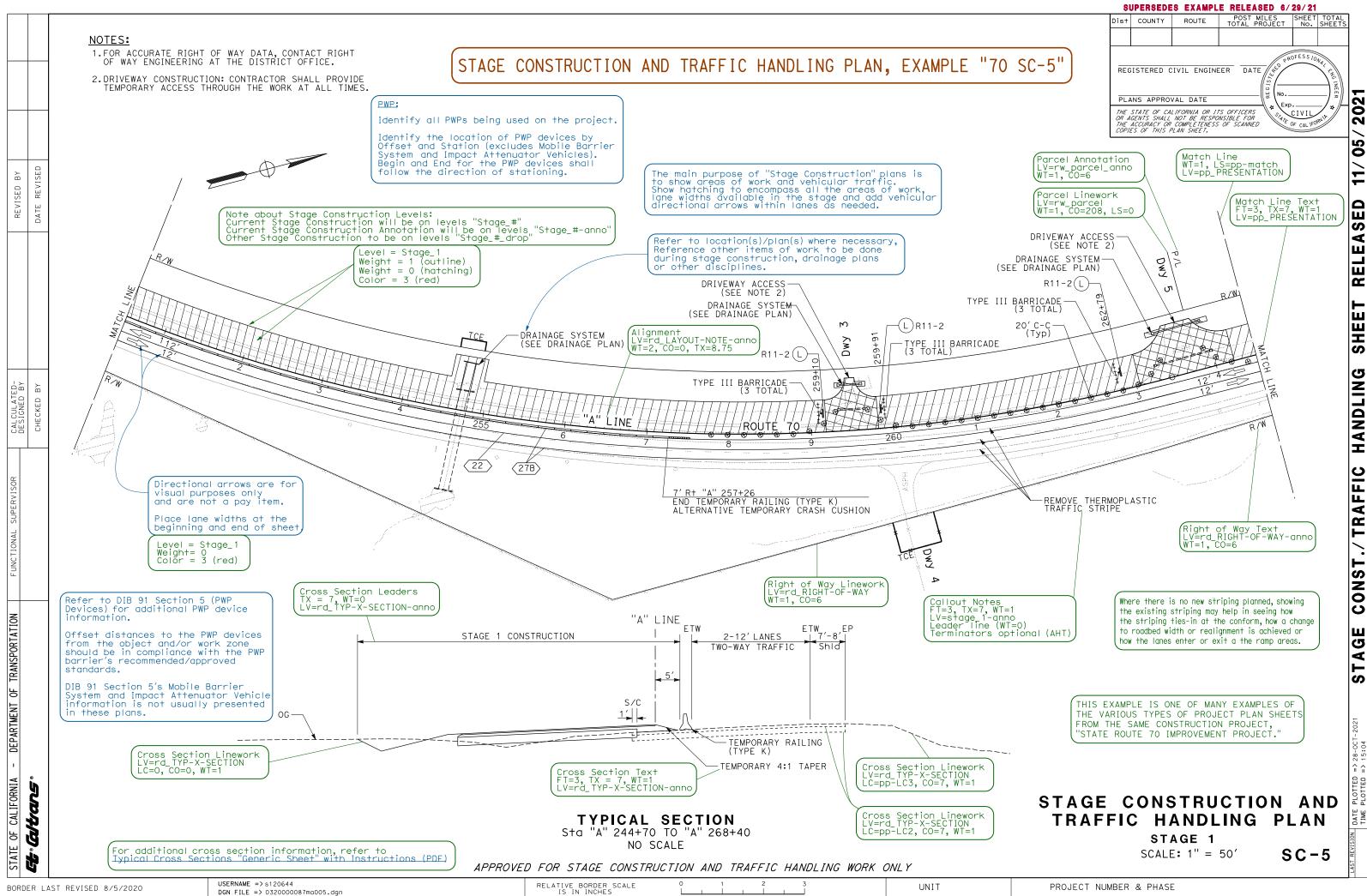




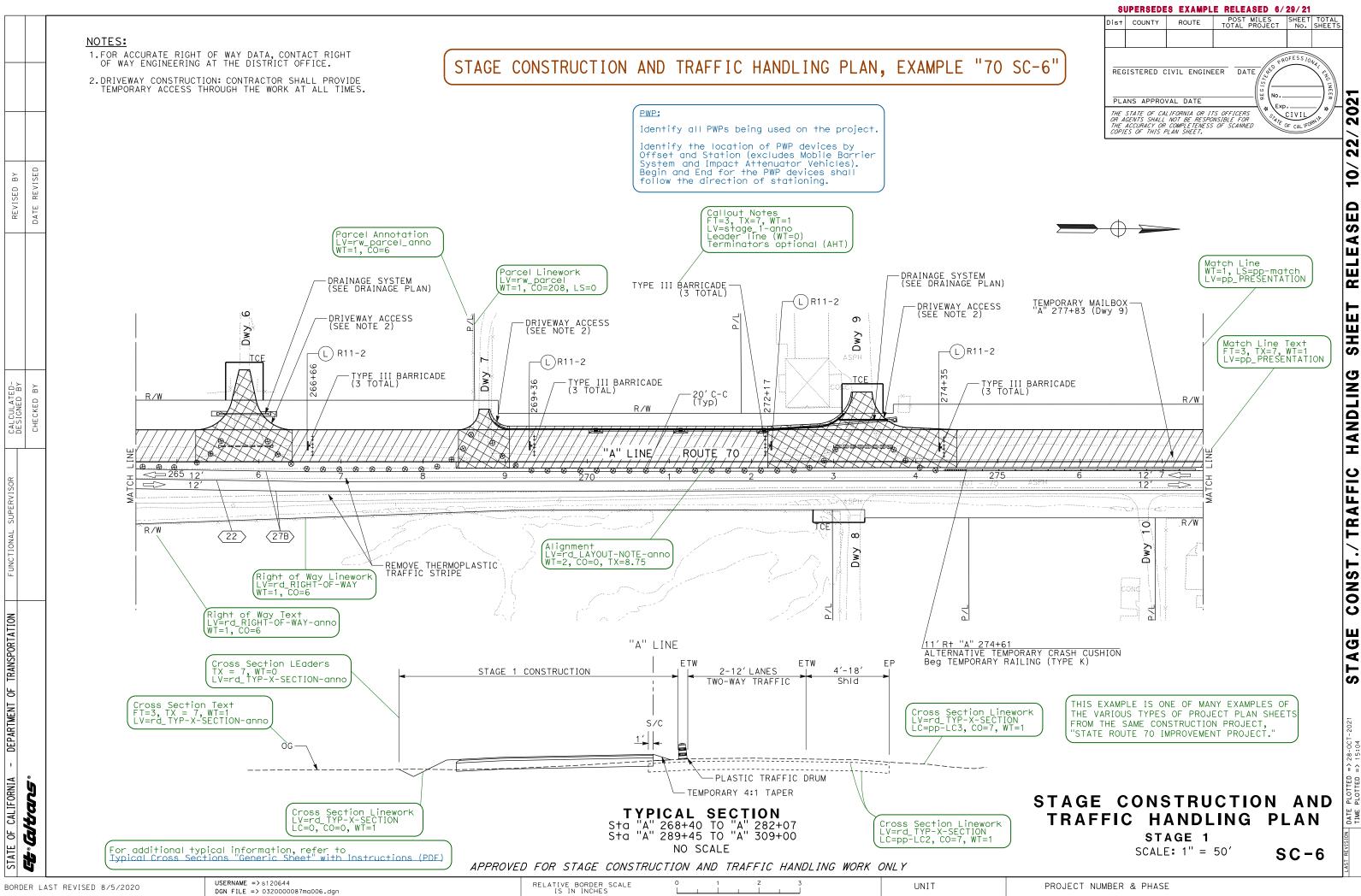


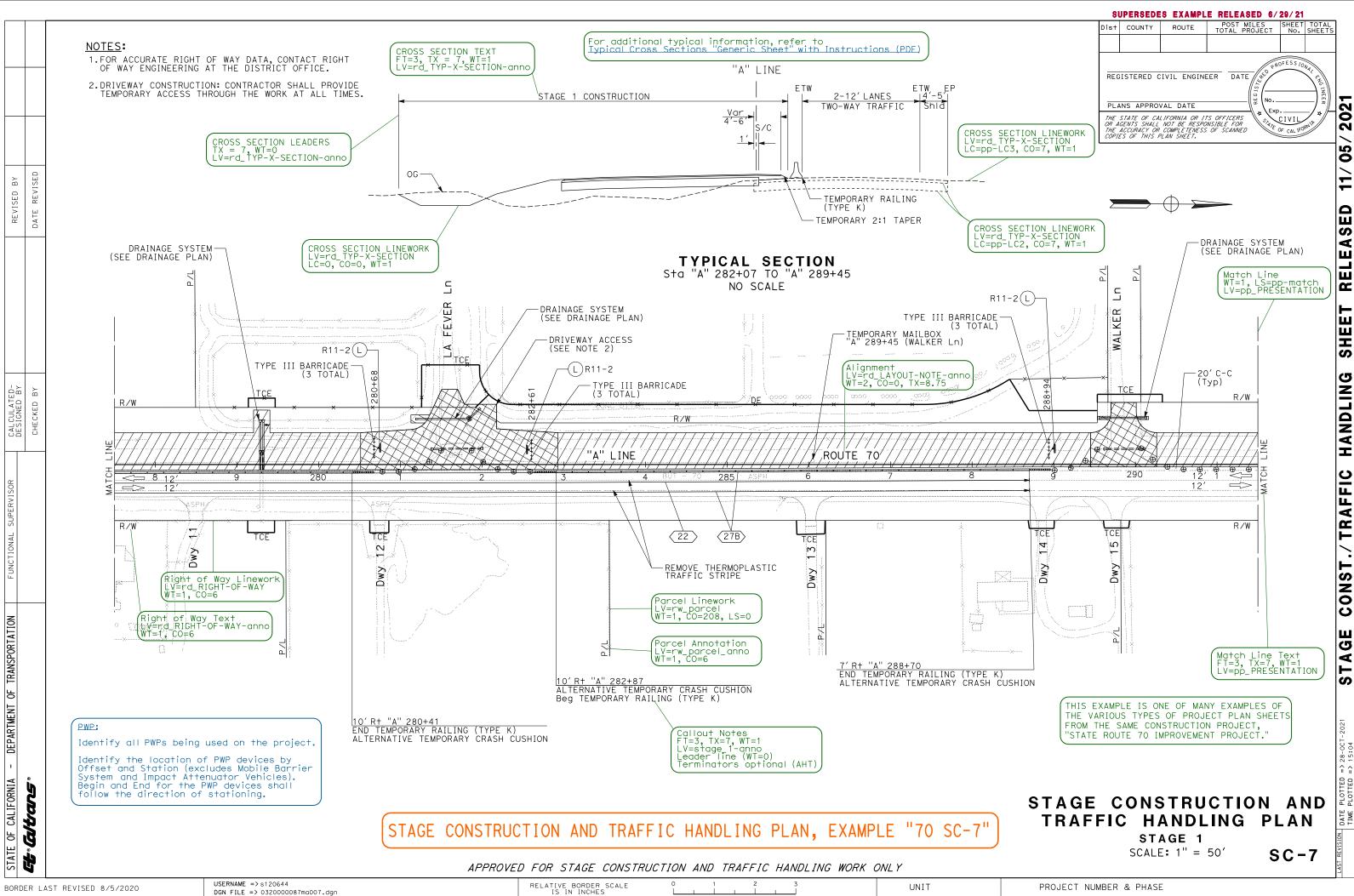


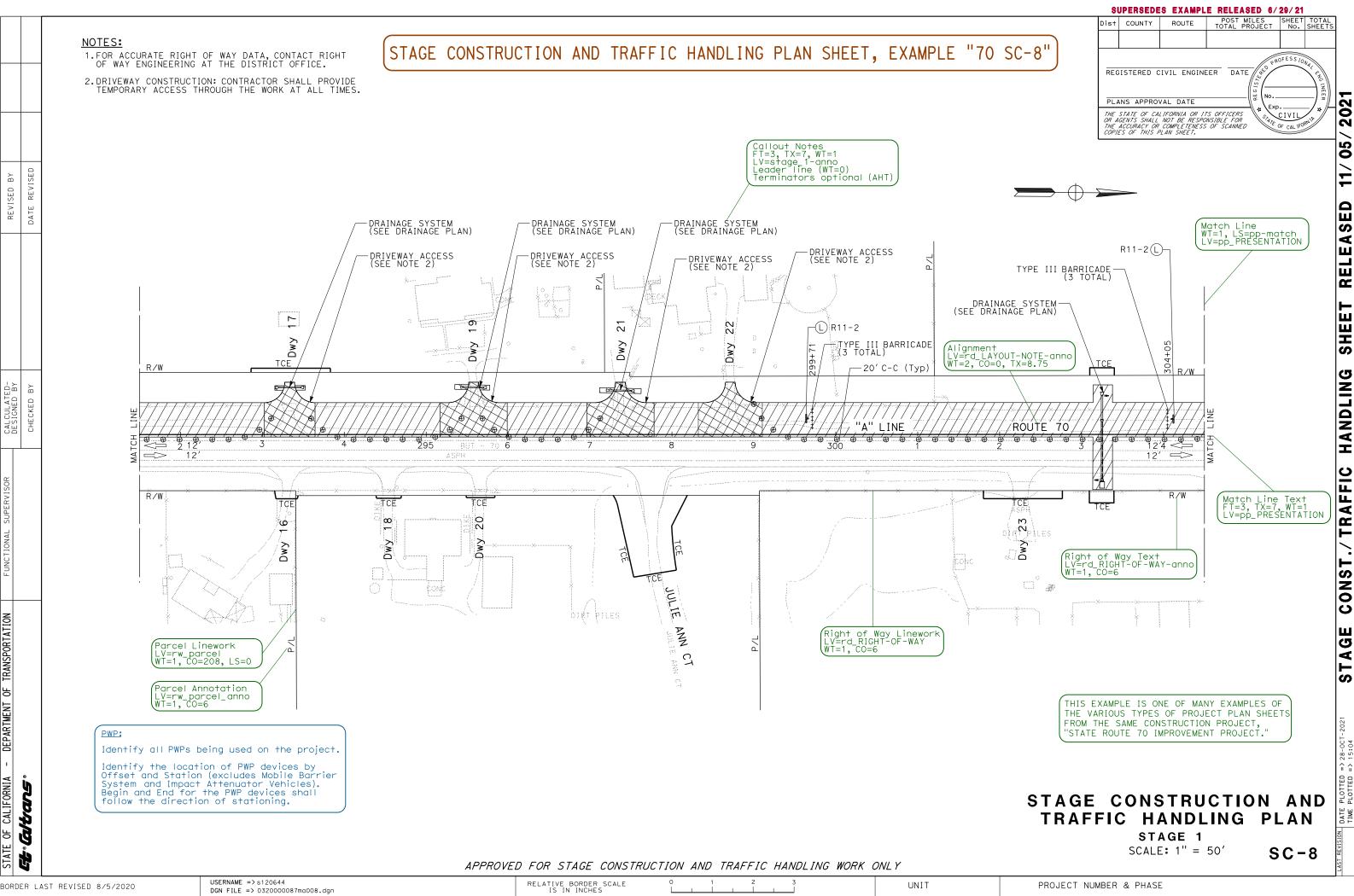




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DEPARTMENT OF TRANSPORTATION

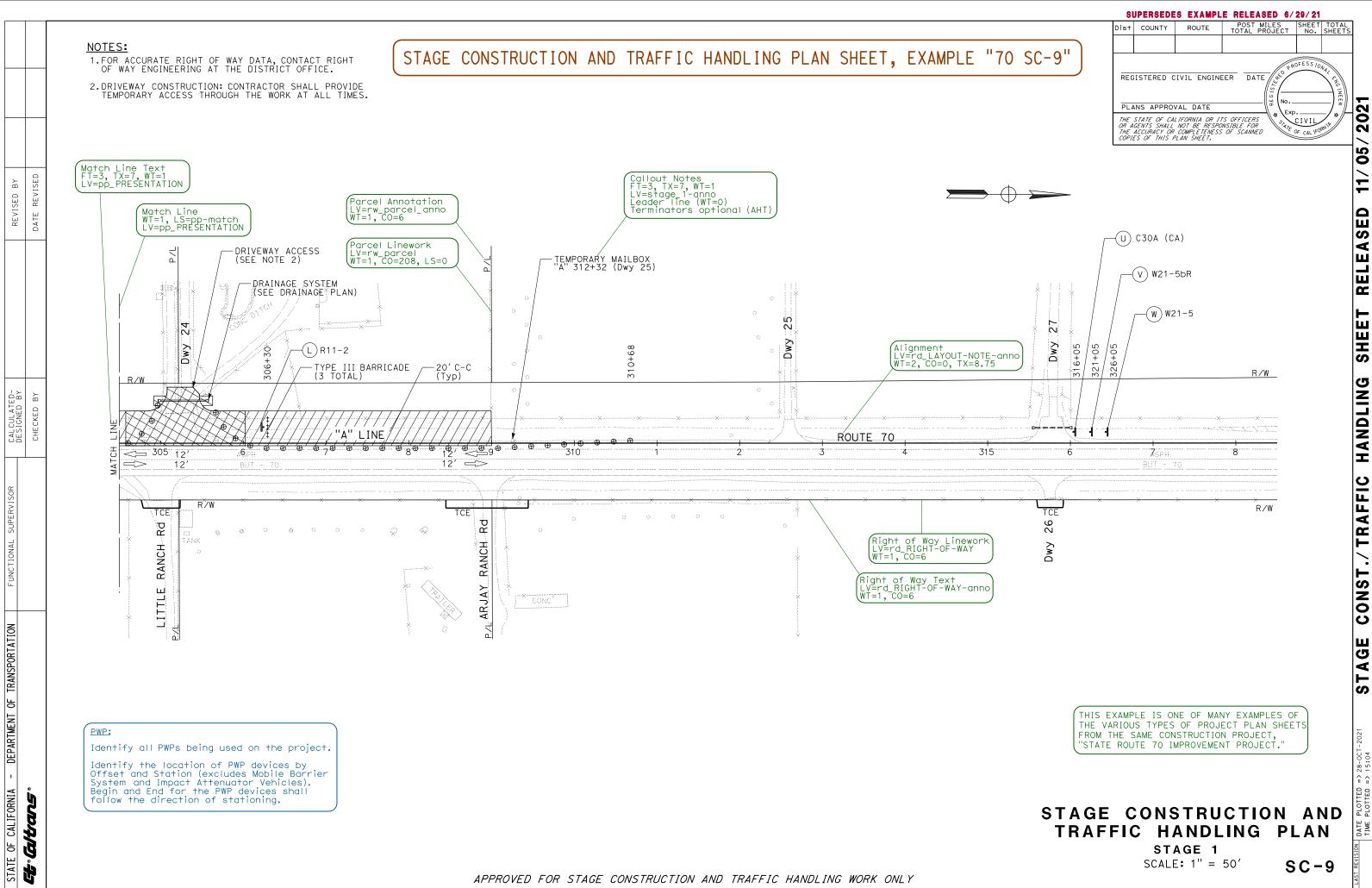
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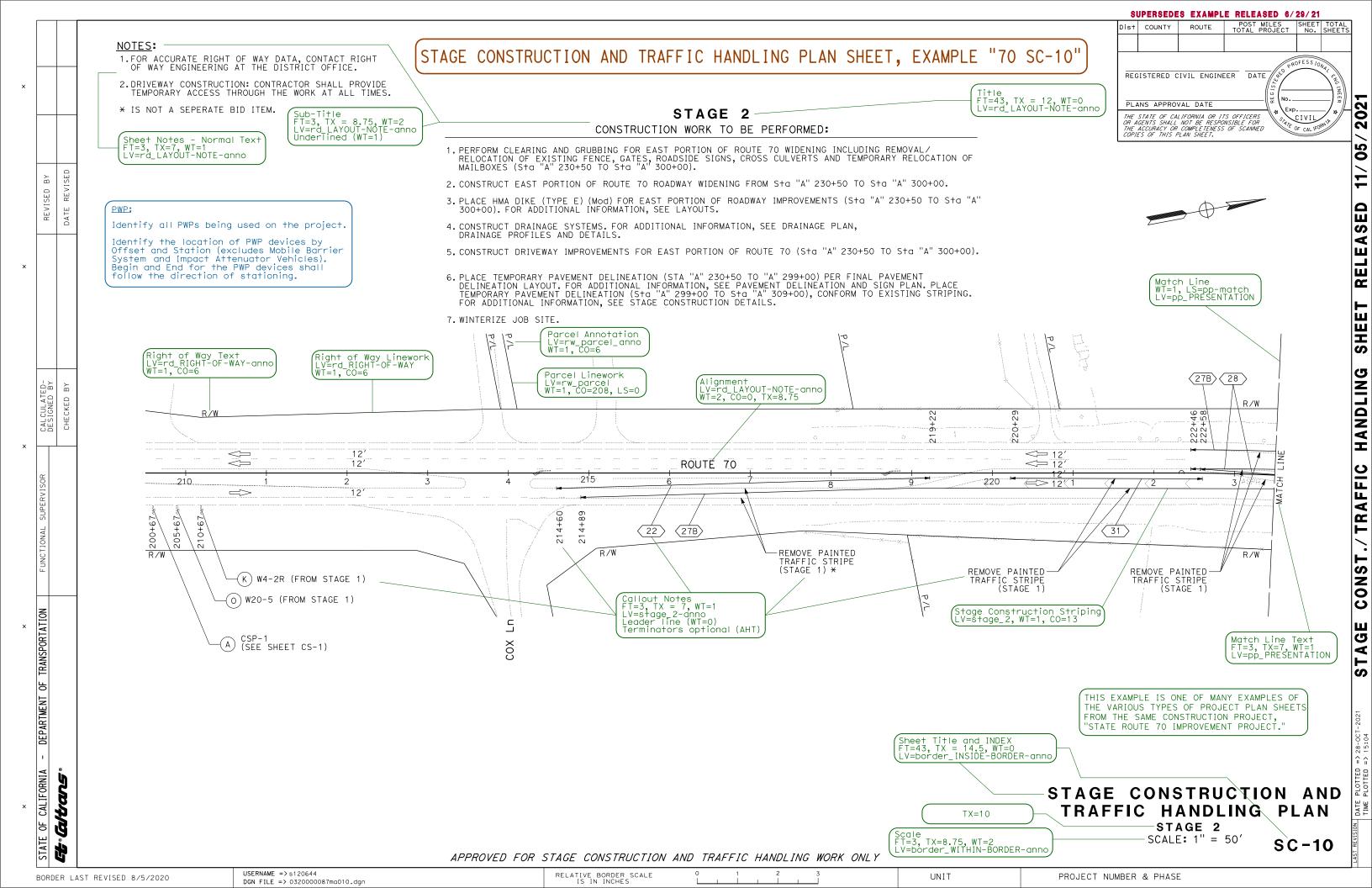
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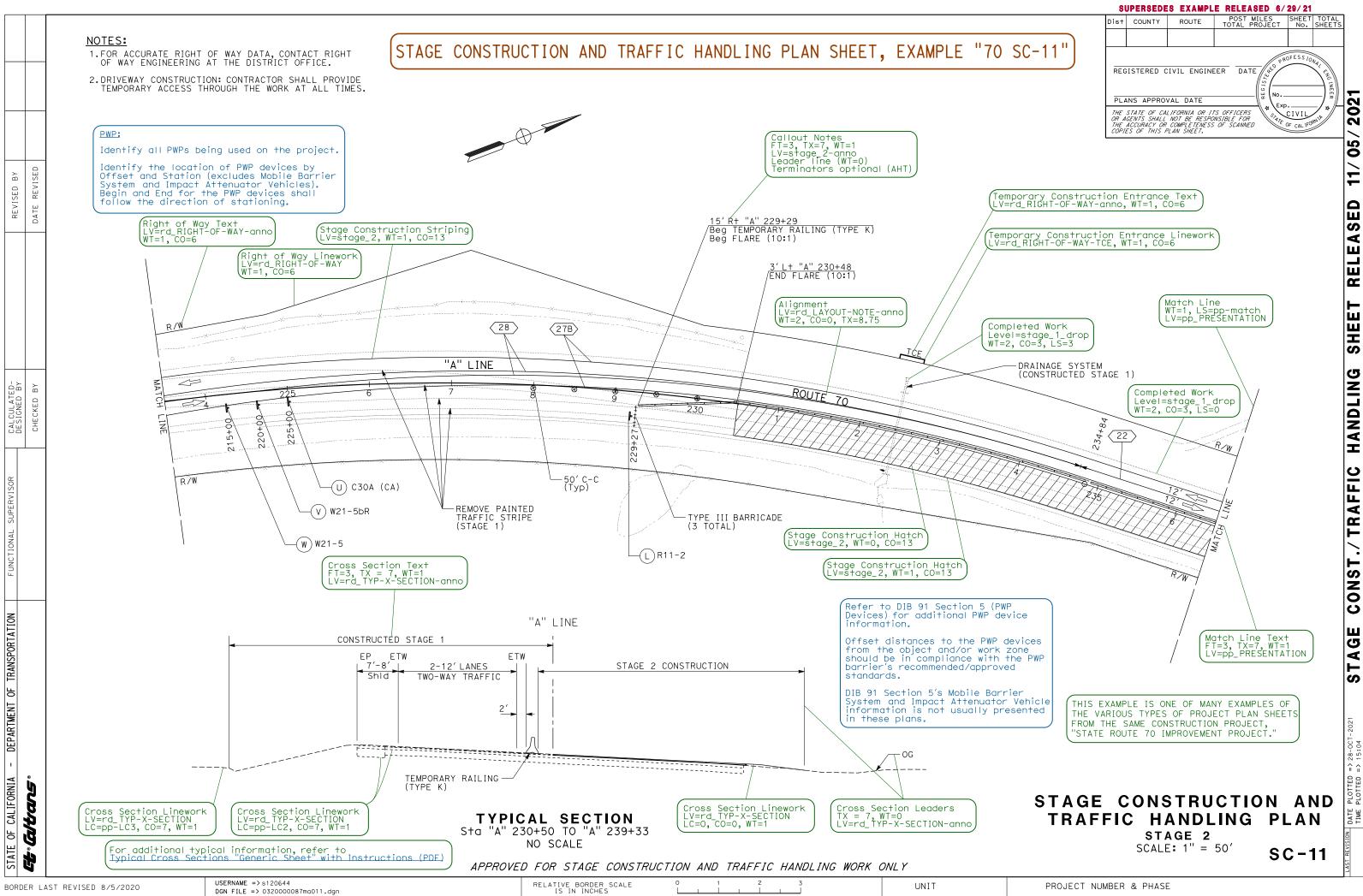
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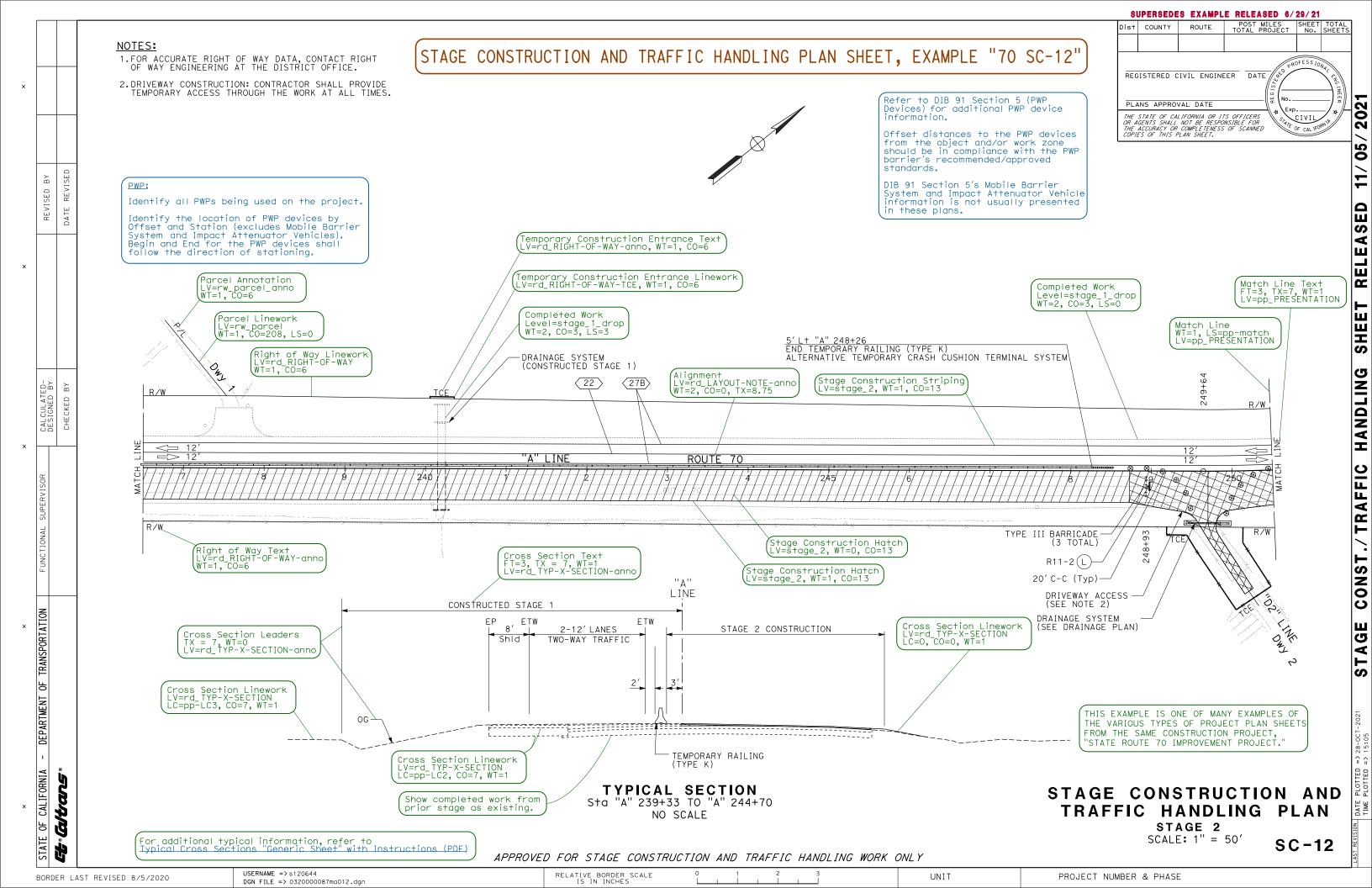


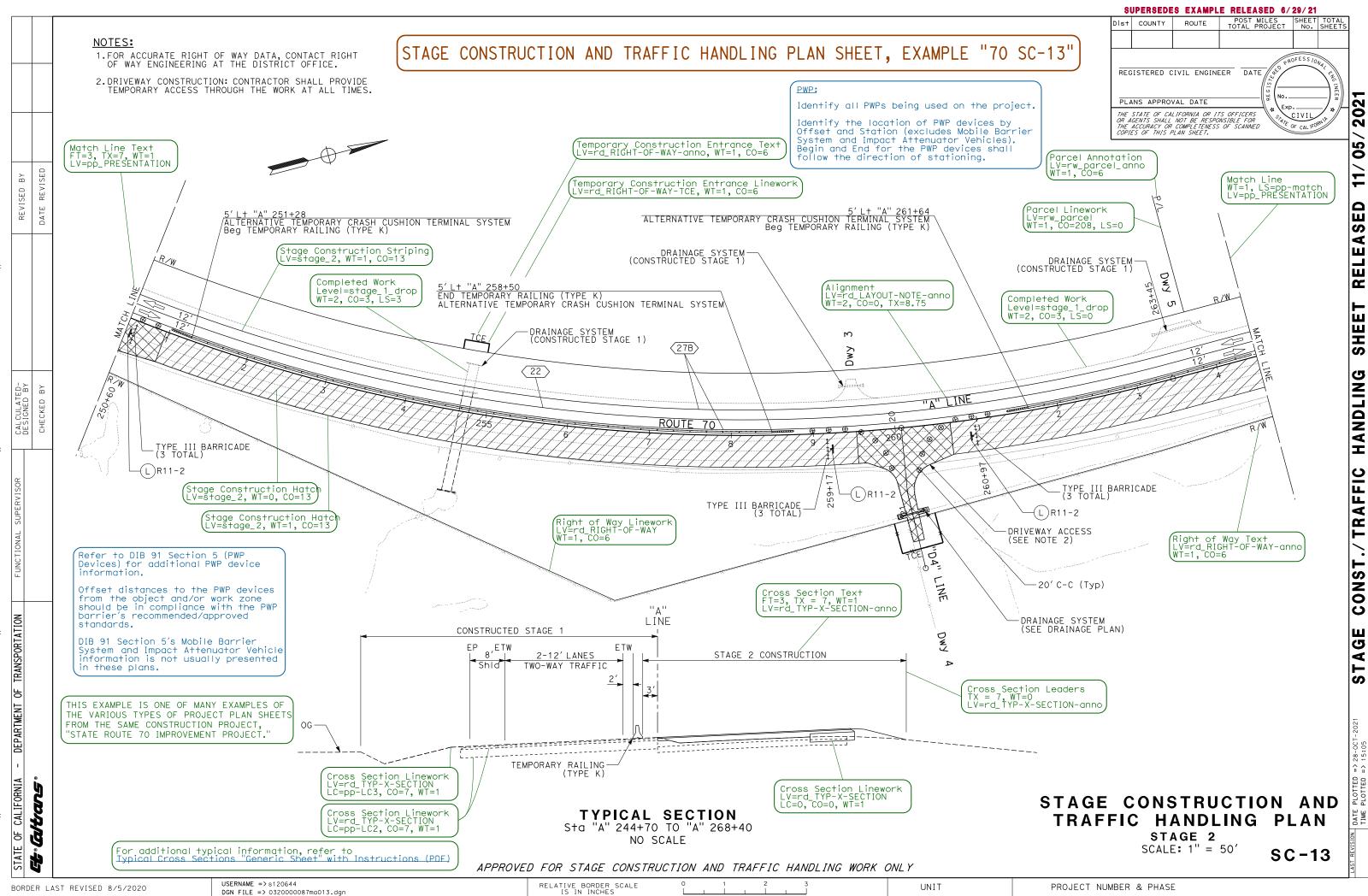
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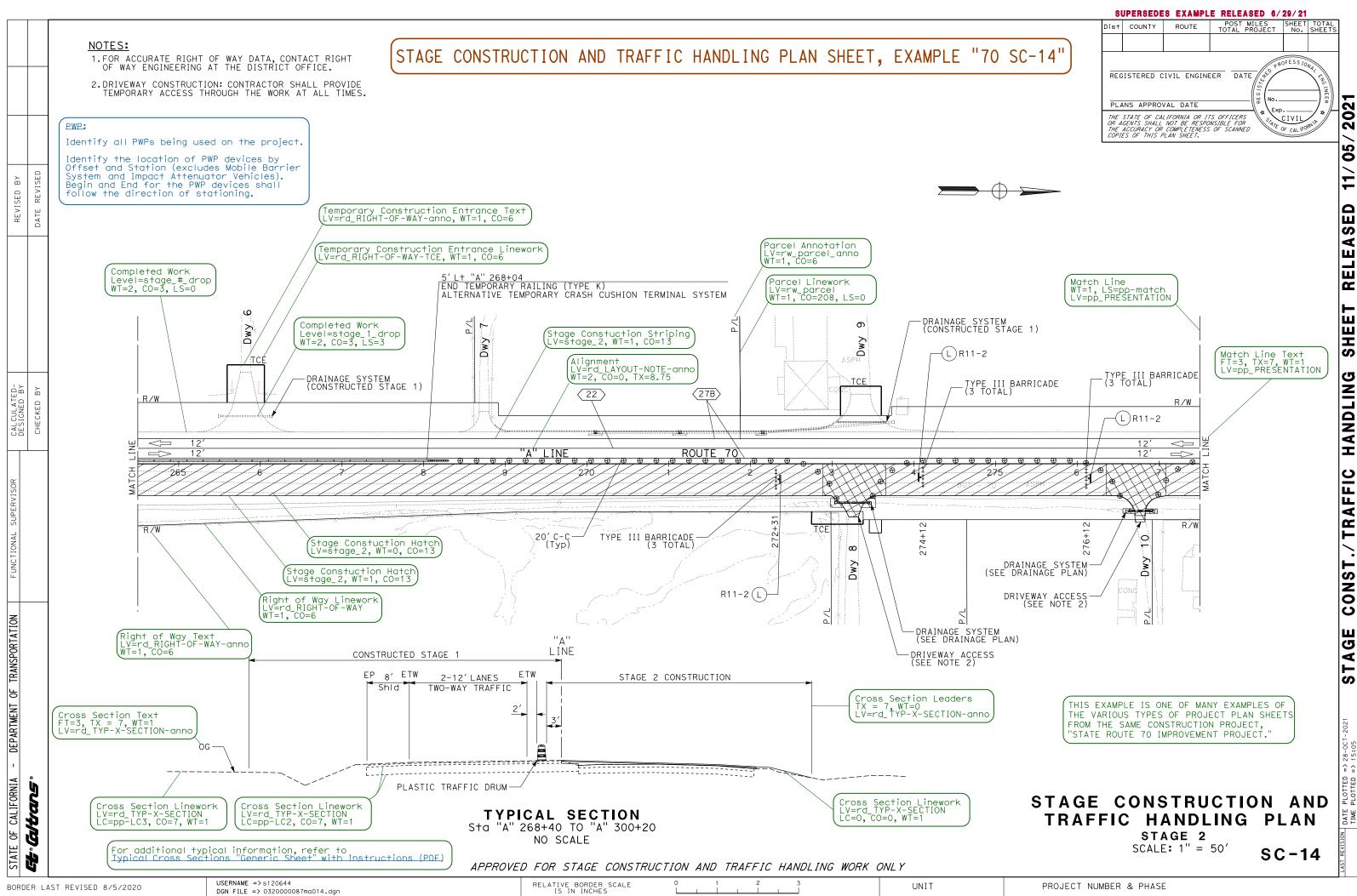


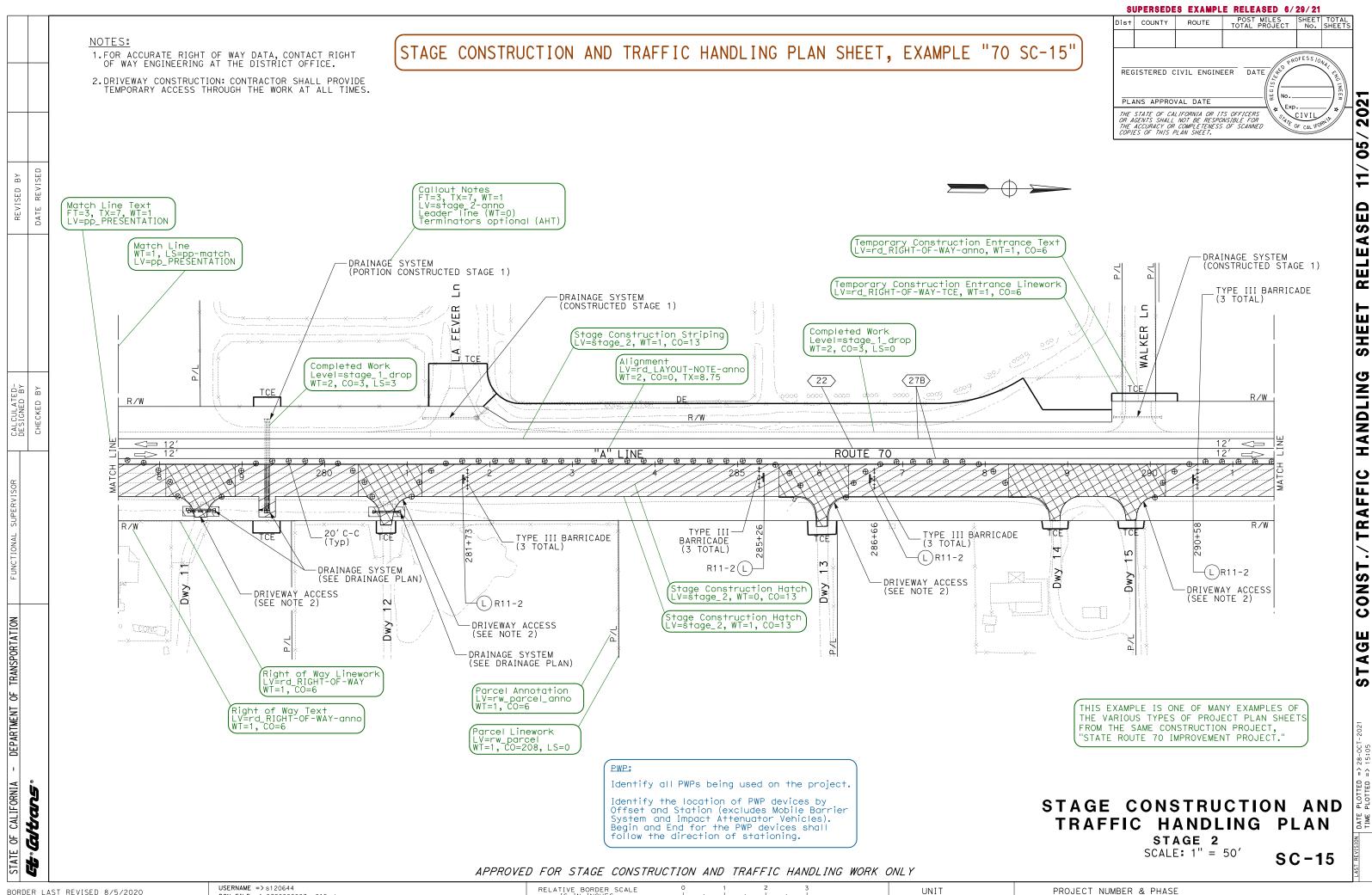






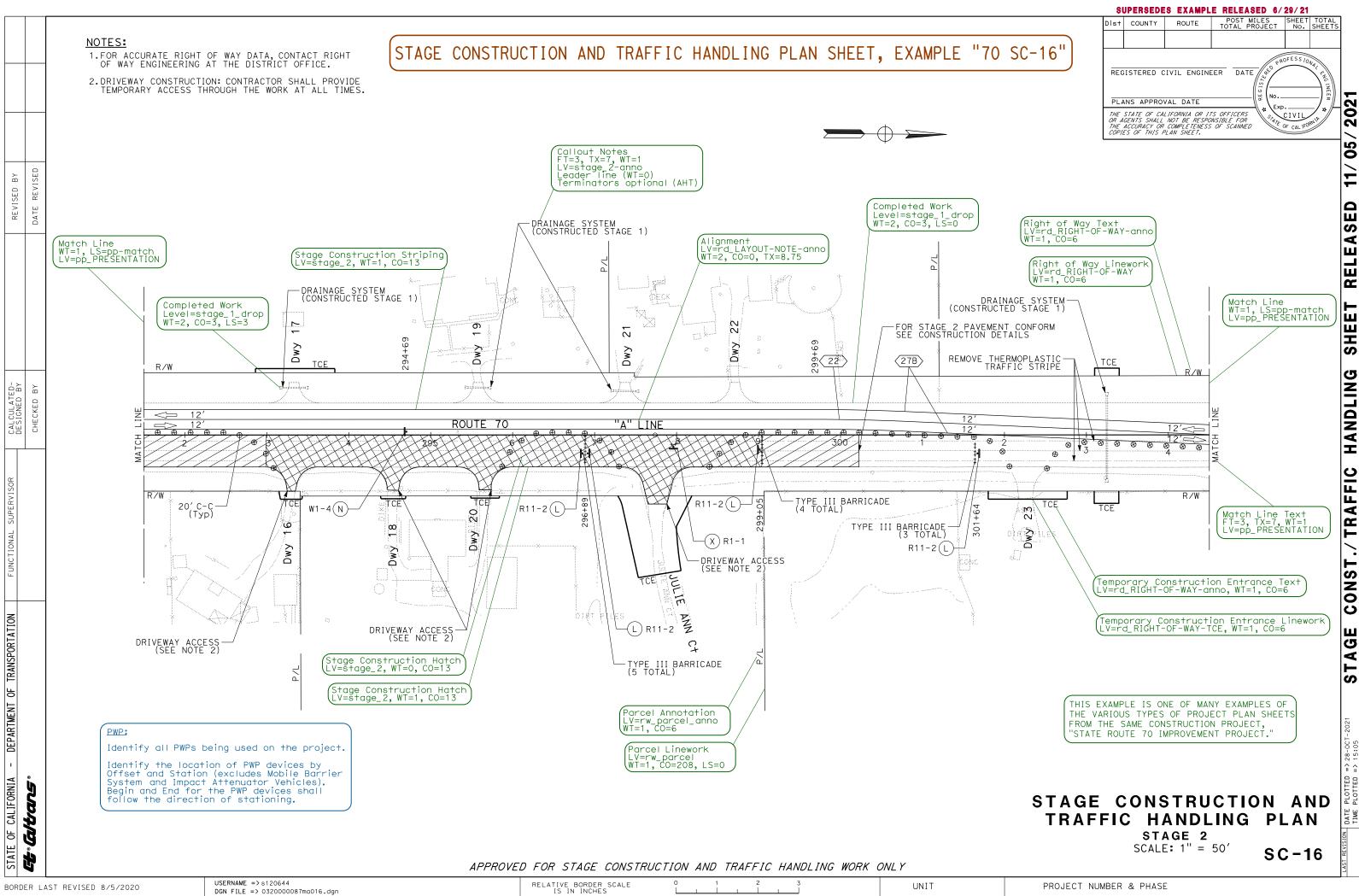
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gn	IS IN INCHES			0111

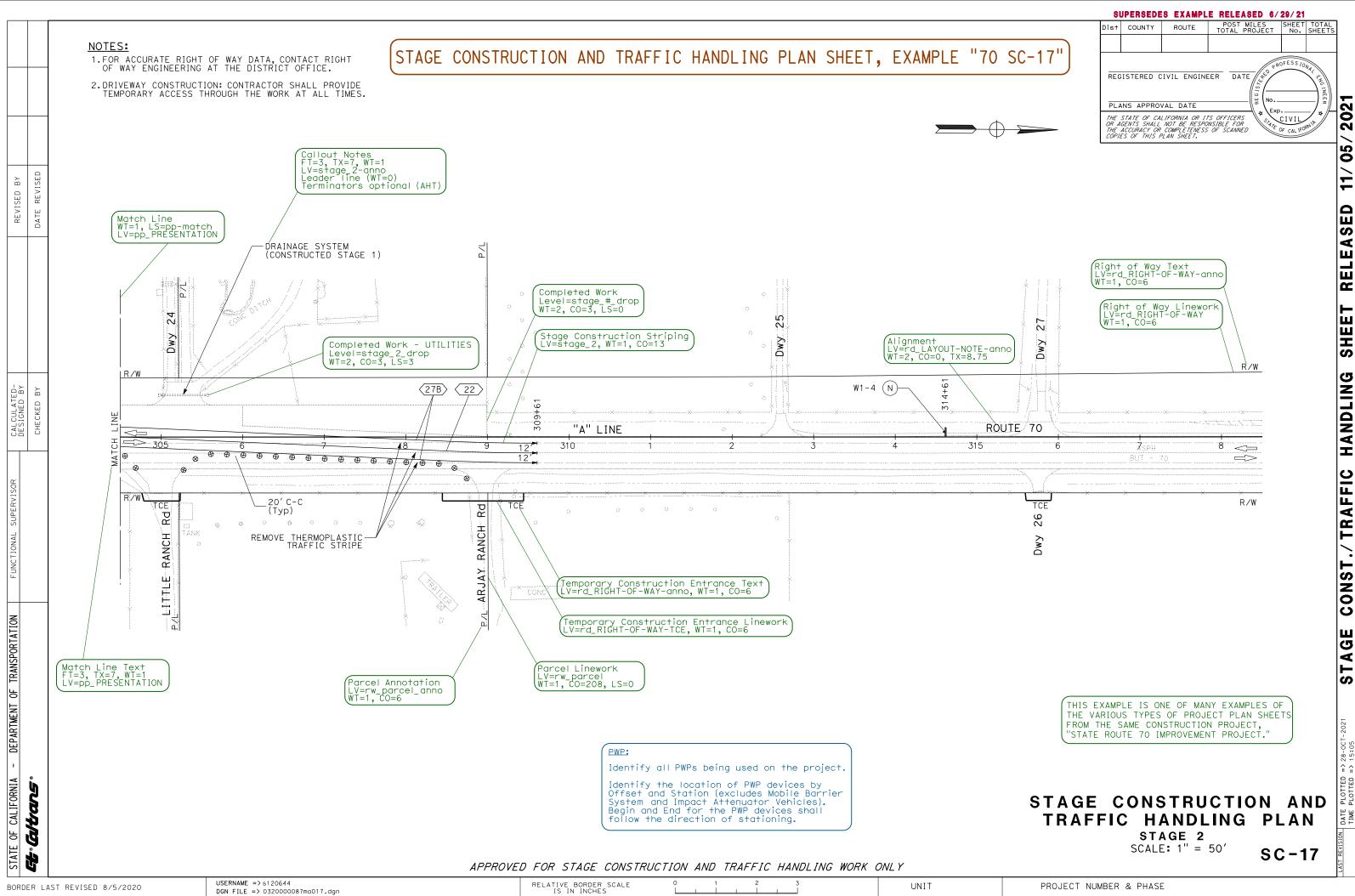




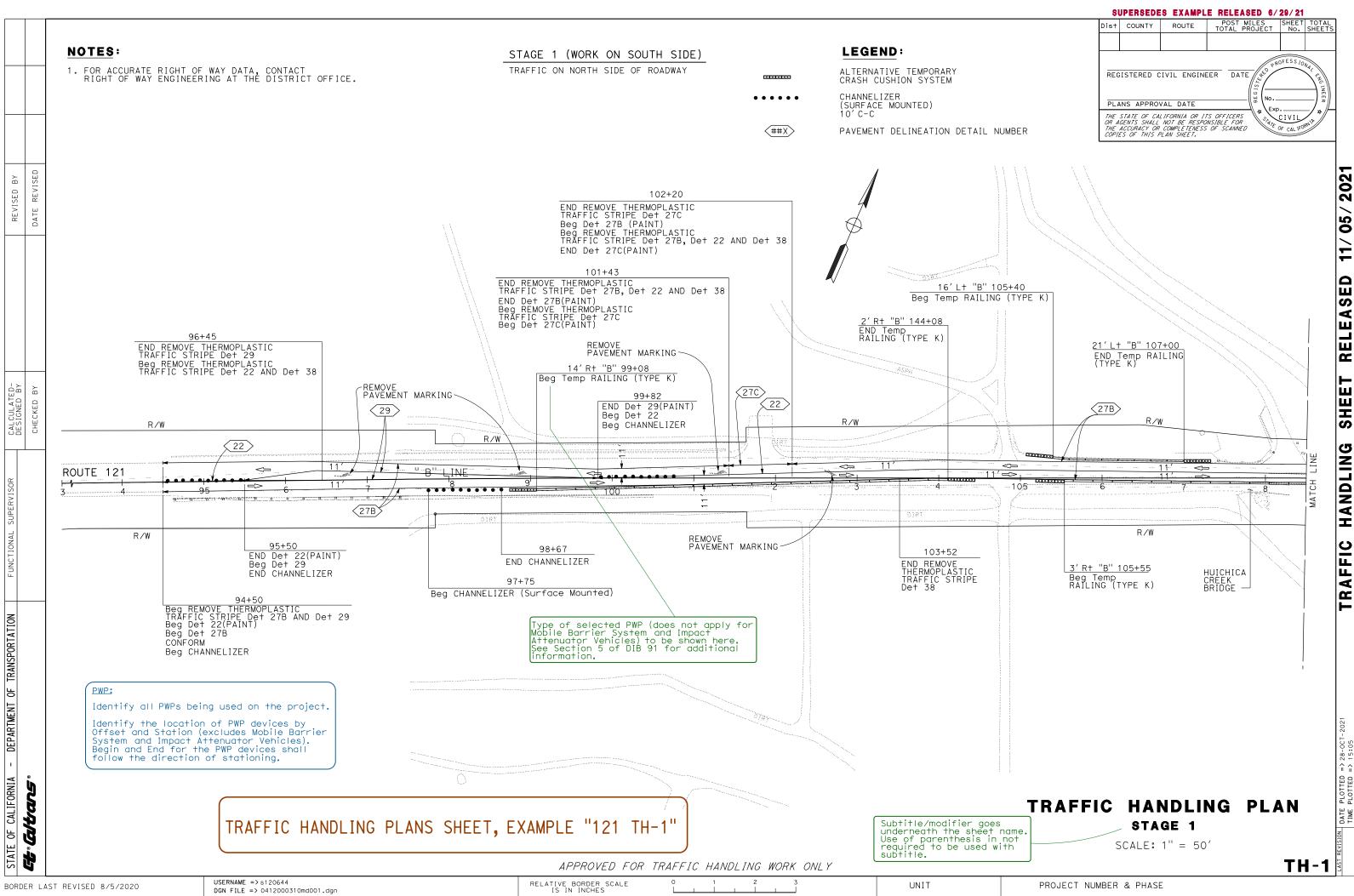
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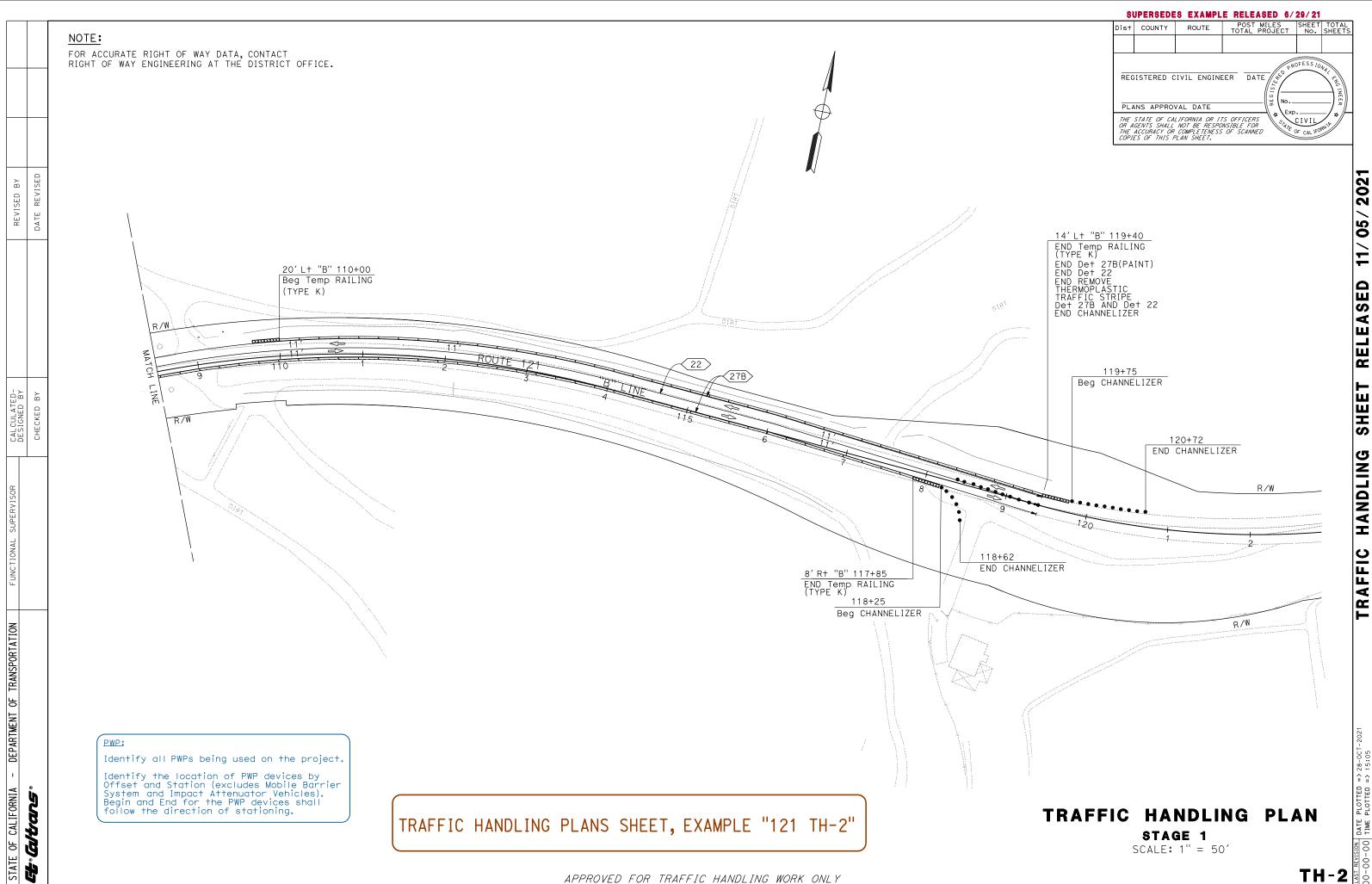
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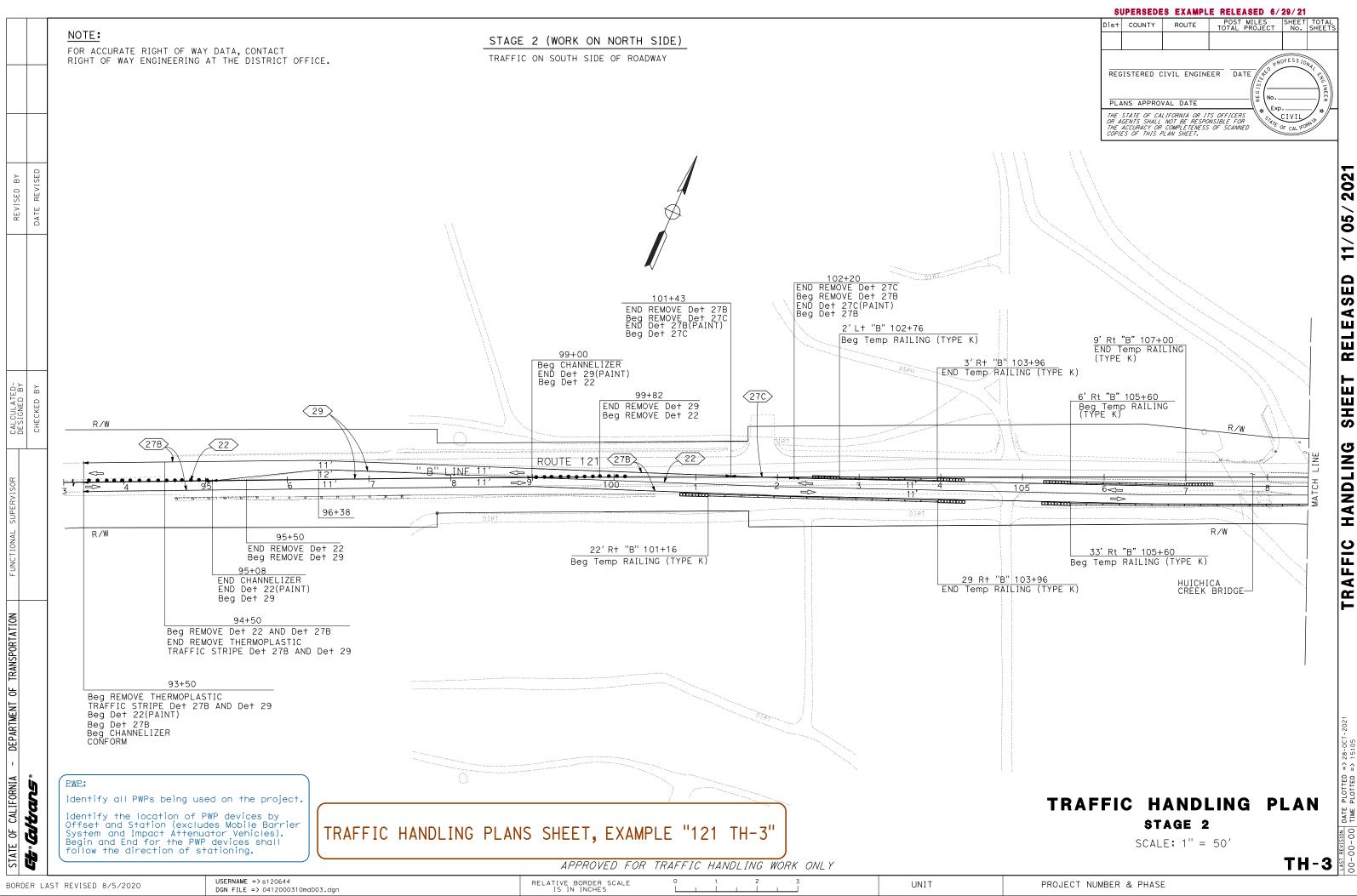


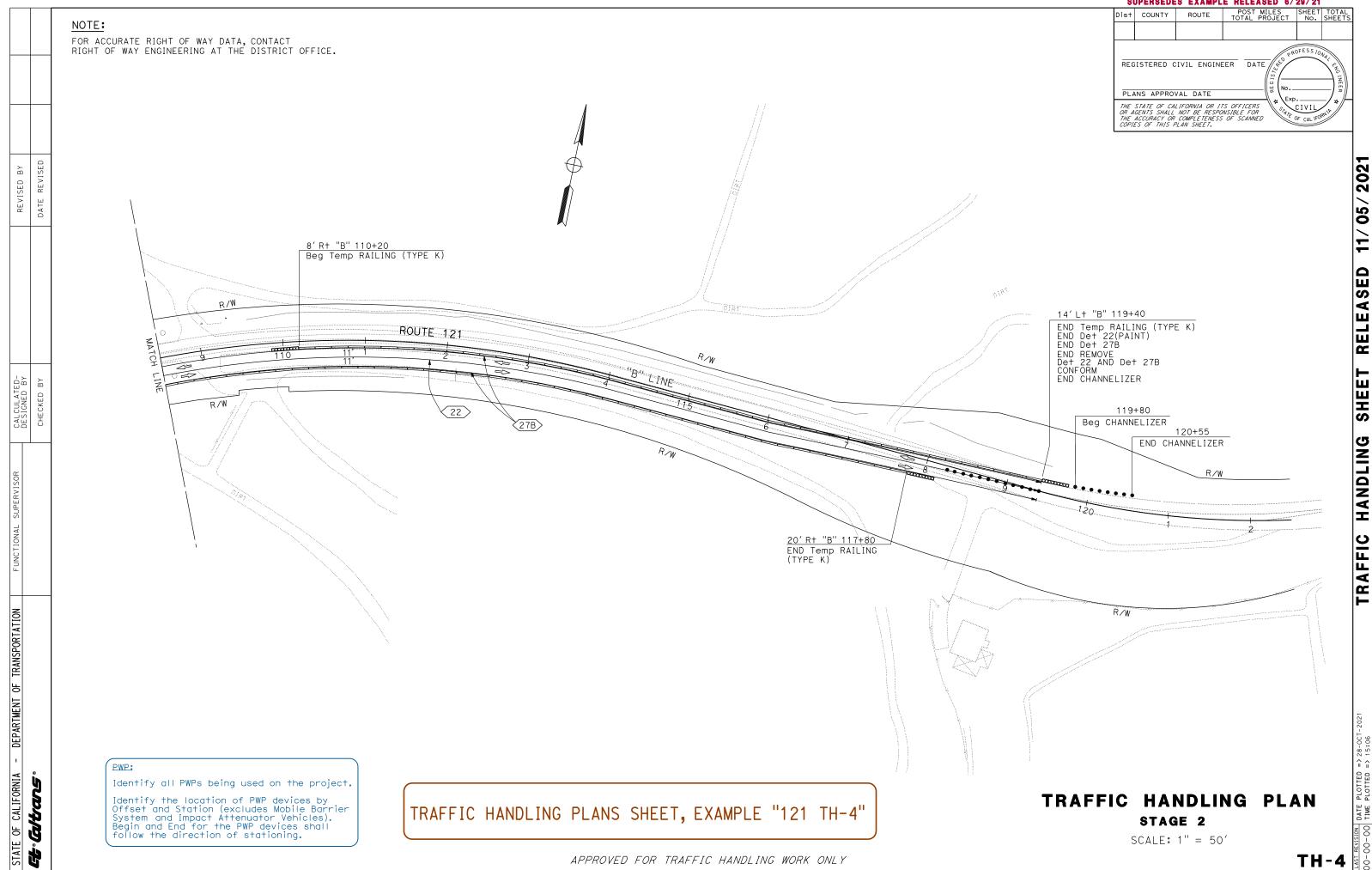


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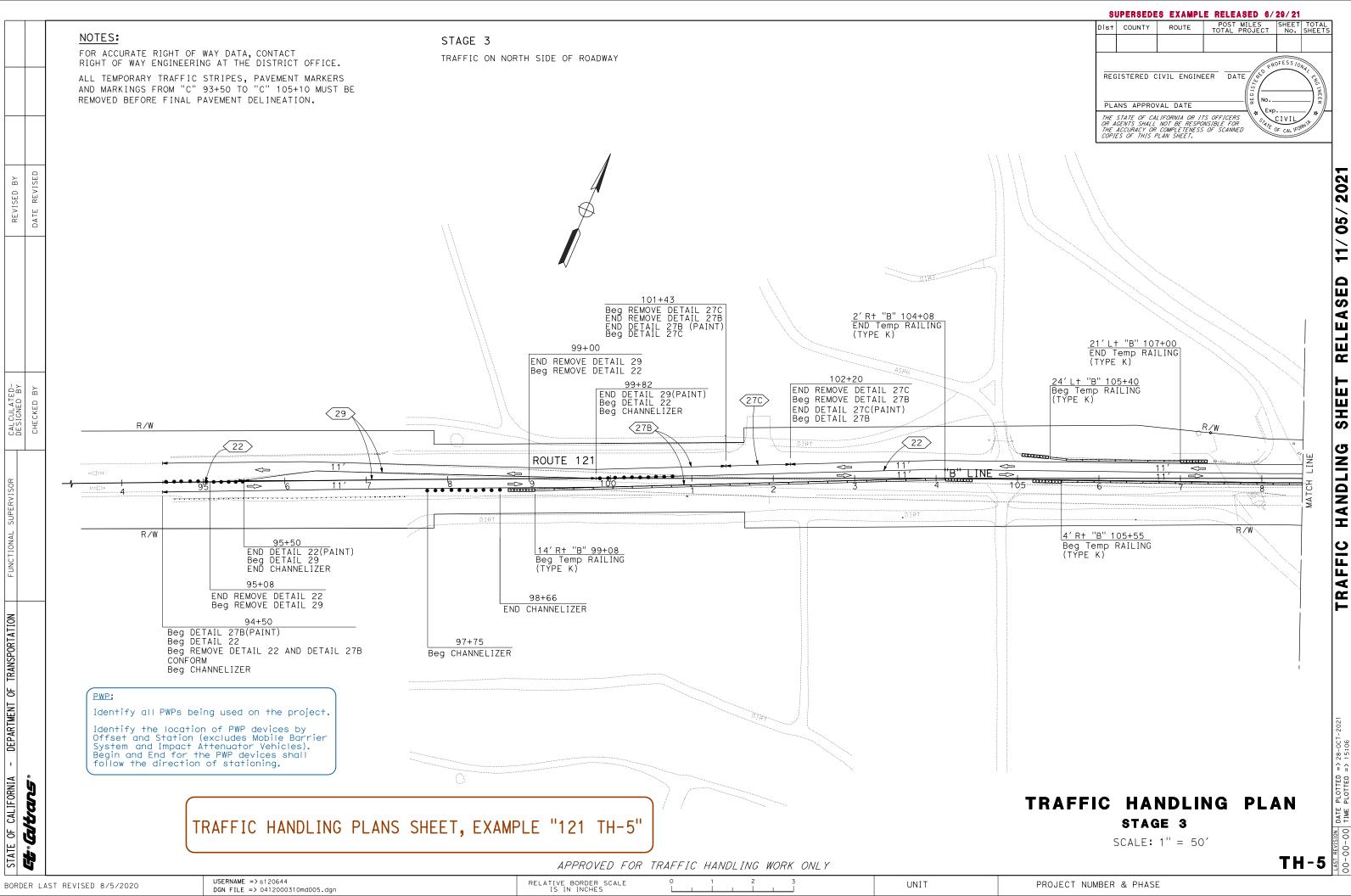
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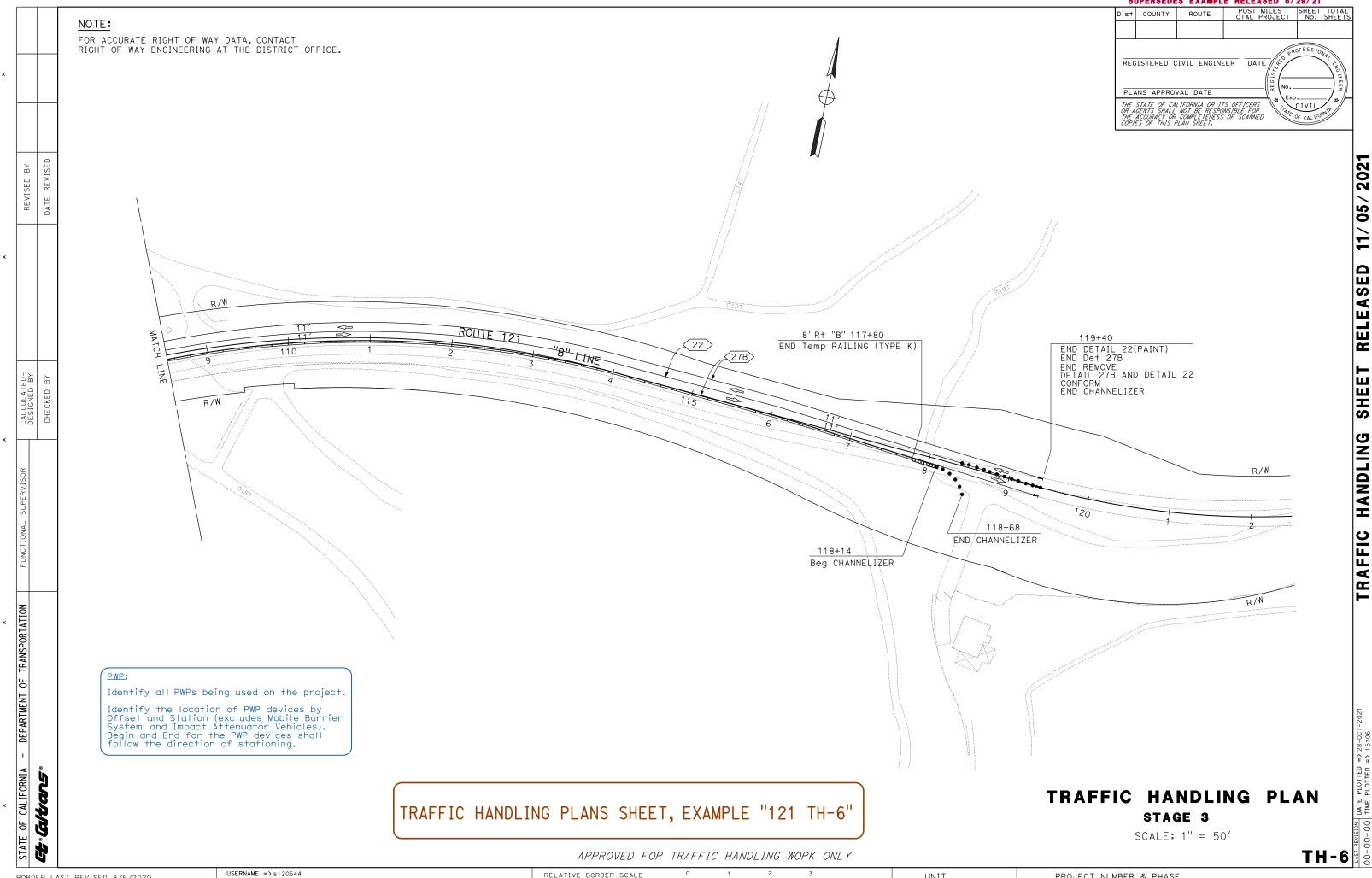
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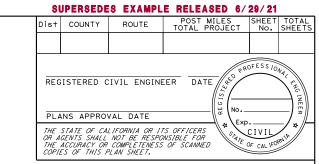


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RELATIVE BORDER SCALE IS IN INCHES

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TEN	<b>IPOR</b>	ARY RAILING	(TYPE K	)
SHEET No.	STAGE	STATION LIMITS	LOCATION	LF
TH-1		"B" 99+08 TO 104+08	RIGHT	500
TH-1		"B" 105+40 TO 107+00	LEFT	160
TH-1, TH-2		"B" 105+55 TO 117+85	RIGHT	1240
TH-2	1	"B" 110+00 TO 119+40	LEFT	940
TH-3		"B" 101+16 TO 103+96	RIGHT	280
TH-3	1	"B" 102+76 TO 103+96	LEFT	120
TH-3	2	"B" 105+60 TO 107+00	LEFT	140
TH-3, TH-4	1	"B" 105+60 TO 117+80	RIGHT	1220
TH-4	1	"B" 110+20 TO 119+40	LEFT	920
TH-5		"B" 99+08 TO 104+08	RIGHT	500
TH-5, TH-6	3	"B" 105+55 TO 117+80	RIGHT	1240
TH-5		"B" 105+40 TO 107+00	LEFT	160
		TOTAL		7420

## **TEMPORARY ALTERNATIVE CRASH CUSHION**

SHEET No.	STAGE	STATION LIMITS	LOCATION	(N) OBJECT MARKER TYPE P (CA)	TEMPORARY ALTERNATIVE CRASH CUSHION EA
TH-1		"B" 99+08	RIGHT	1	1
TH-1		"B" 104+08	RIGHT	1	1
TH-1		"B" 105+40	LEFT	1	1
TH-1	1	"B" 105+55	RIGHT	1	1
TH-1		"B" 107+00	LEFT	1	1
TH-2		"B" 110+00	LEFT	1	1
TH-2		"B" 117+85	RIGHT	1	1
TH-2		"B" 119+40	LEFT	1	1
TH-3		"B" 101+16	RIGHT	1	1
TH-3		"B" 102+76	LEFT	1	1
TH-3		"B" 103+96	LEFT AND RIGHT	2	2
TH-3	2	"B" 105+60	LEFT AND RIGHT	2	2
TH-3		"B" 107+00	LEFT	1	1
TH-4		"B" 110+20	LEFT	1	1
TH-4		"B" 117+80	RIGHT	1	1
TH-4		"B" 119+40	LEFT	1	1
TH-5		"B" 99+08	RIGHT	1	1
TH-5		"B" 104+08	RIGHT	1	1
TH-5	3	"B" 105+40	LEFT	1	1
TH-5		"B" 105+55	RIGHT	1	1
TH-5		"B" 107+00	LEFT	1	1
TH-6		"B" 117+80	RIGHT	1	1
		TOTAL		24	24

(N) - NOT A SEPARATE BID ITEM

TRAFFIC HANDLING QUANTITIES SHEET, EXAMPLE 1 of 3

DATE REVISED REVISED BY

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CALCULATED-DESIGNED BY СНЕСКЕД ВҮ

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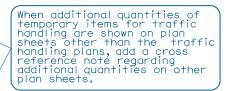
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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DIST COUNTY ROUTE POST MILES SHEET TOTA TOTAL PROJECT NO. SHEET															
PLANS APPROVAL DATE															
OF TH	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.														



# TRAFFIC HANDLING QUANTITIES THQ-1

PROJECT NUMBER & PHASE

TRAFFIC HANDLING SHEET RELEASED 11/05/2021

<b>v</b>		IZEN (SUNIA		
SHEET No.	STAGE	STATION LIMITS	LOCATION	EA
TH-1		"B" 94+50 TO 95+50	CENTER	11
TH-1		"B" 97+75 TO 98+67	RIGHT	10
TH-1,2	1	"B" 99+82 TO 119+40	CENTER	197
TH-2		"B" 118+25 TO 118+62	RIGHT	5
TH-2		"B" 119+75 TO 120+72	LEFT	11
TH-3		"B" 93+50 TO 95+08	CENTER	17
TH-3, 4	2	"B" 99+00 TO 119+40	CENTER	205
TH-4		"B" 119+80 TO 120+55	LEFT	9
TH-5		"B" 94+50 TO 95+50	CENTER	11
TH-5	3	"B" 97+75 TO 98+66	RIGHT	10
TH-5,6	5	"B" 99+82 TO 119+40	CENTER	197
TH-6		"B" 118+20 TO 118+68	RIGHT	6
	689			

## CHANNELIZER (SURFACE MOUNTED)

## TEMPORARY TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

				DETAIL NO.	TEMPORARY	TRAFFIC STR	IPE (PAINT)	TEMPOR
SHEET No.	STAGE No.	STATION LIMITS	LOCATION	OR PAVEMENT	6" SOLID	6" SOLID	6" BROKEN	PAVEME MARKE
				MARKING	WHITE	YELLOW	WHITE	
						L	F	
		"B" 94+50 TO 95+50	CENTER	22		100		10
TH 4		"B" 94+50 TO 101+43	LEFT	27B	693			
TH-1		"B" 95+50 TO 99+82	CENTER	29		864		38
	1	"B" 101+43 TO 102+20	LEFT	27C			77	
		"B" 94+50 TO 119+40	RIGHT	27B	2,490			
TH-1, TH-2		"B" 99+82 TO 119+40	CENTER	22		1,958		166
		"B" 102+20 TO 119+40	LEFT	27B	1,720			
		"B" 93+50 TO 95+08	CENTER	22		158		16
TH-3		"B" 95+08 TO 99+00	CENTER	29		784		34
		"B" 101+43 TO 102+20	LEFT	27C			77	
	2	"B" 93+50 TO 101+43	LEFT	27B	793			
ТН-З,		"B" 93+50 TO 119+40	RIGHT	27B	2,590			
TH-4		"B" 99+00 TO 119+40	CENTER	22		2,040		172
		"B" 102+20 TO 119+40	LEFT	27B	1720			
		"B" 94+50 TO 95+50	CENTER	22		100		10
		"B" 94+50 TO 101+43	LEFT	27B	693			
TH-5		"B" 95+50 TO 99+82	CENTER	29		864		38
	7	"B" 101+43 TO 102+20	LEFT	27C			77	
	- 3	"B" 99+82 TO 119+40	CENTER	22		1,958		166
TH-5,		"B" 94+50 TO 119+40	RIGHT	27B	2,490			
TH-6		"B" 102+20 TO 119+40	LEFT	27B	1,720			
		SUBTOTAL			14,909	8,826	231	650
		TOTAL				23,966		650

- NOT A SEPARATE BID ITEM (N)

TRAFFIC HANDLING QUANTITIES SHEET, EXAMPLE 2 of 3

BORDER LAST REVISED 8/5/2020

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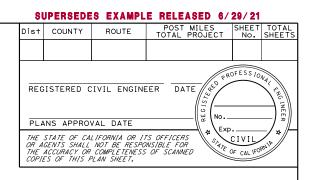
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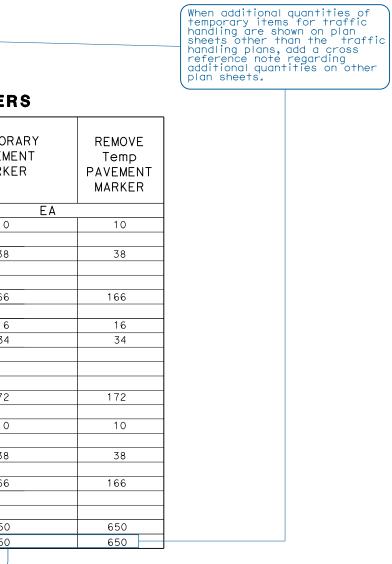
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# TRAFFIC HANDLING QUANTITIES

THQ-2

RELEASED 11/ 05/ 2021

**TRAFFIC HANDLING SHEET** 

CUEET				DETAIL No.	REMOVE THERM	MOPLASTIC TRAF	FIC STRIPE	REMOVE	REMOVE THERMOPLASTI
No.		STAGE	LOCATION	OR PAVEMENT MARKING	6" YELLOW (HAZARDOUS WASTE)	6" WHITE	8" WHITE	PAVEMENT MARKER	PAVEMENT MARKING
						LF		EA	SQFT
	"B" 94+50 TO 101+43	1	LEFT	27B		693			
	"B" 102+20 TO 108+00	1	LEFT	27B		580			
	"B" 94+50 TO 108+00	1	RIGHT	27B		1350			
	"B" 96+45 TO 101+43	1	CENTER	22	996			42	
	"B" 102+20 TO 108+00	1	CENTER	22	1160			50	
TH-1	"B" 96+45 TO 101+43	1	RIGHT	38			667	21	
	"B" 102+20 TO 103+52	1	RIGHT	38			177	7	
	"B" 94+50 TO 96+45	1	CENTER	29	780			18	
	"B" 101+43 TO 102+20	1	LEFT	270		18			
	"B" 96+50 TO 101+43	1	RIGHT	TYPE III ARROW (L)					126
	"B" 102+50 TO 102+75	1	RIGHT	TYPE VI ARROW (R)					42
	"B" 108+00 TO 119+40	1	LEFT	27B		1140			
TH-2	"B" 108+00 TO 119+40	1	RIGHT	27B		1140			
	"B" 108+00 TO 119+40	1	CENTER	22	2280			94	
	"B" 93+50 TO 94+50	2	CENTER	29	400			10	
TH-3	"B" 93+50 TO 94+50	2	RIGHT	27B		100			
	"B" 93+50 TO 94+50	2	LEFT	27B		100			
		SUBTOTAL				5121	844		
		TOTAL			5616		5965	242	168

TRAFFIC HANDLING QUANTITIES SHEET, EXAMPLE 3 of 3

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CALCULATED-DESIGNED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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DATE REVISED REVISED BY

USERNAME =>s120644 DGN FILE => 0412000310mf003.dgn

RELATIVE BORDER SCALE IS IN INCHES

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	SI	<b>JPERSEDE</b>	S EXAMPL	E RELEASED 6/	29/21								
DIST COUNTY ROUTE POST MILES SHEET TOTAL TOTAL PROJECT NO. SHEET													
	REGISTERED CIVIL ENGINEER 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.												

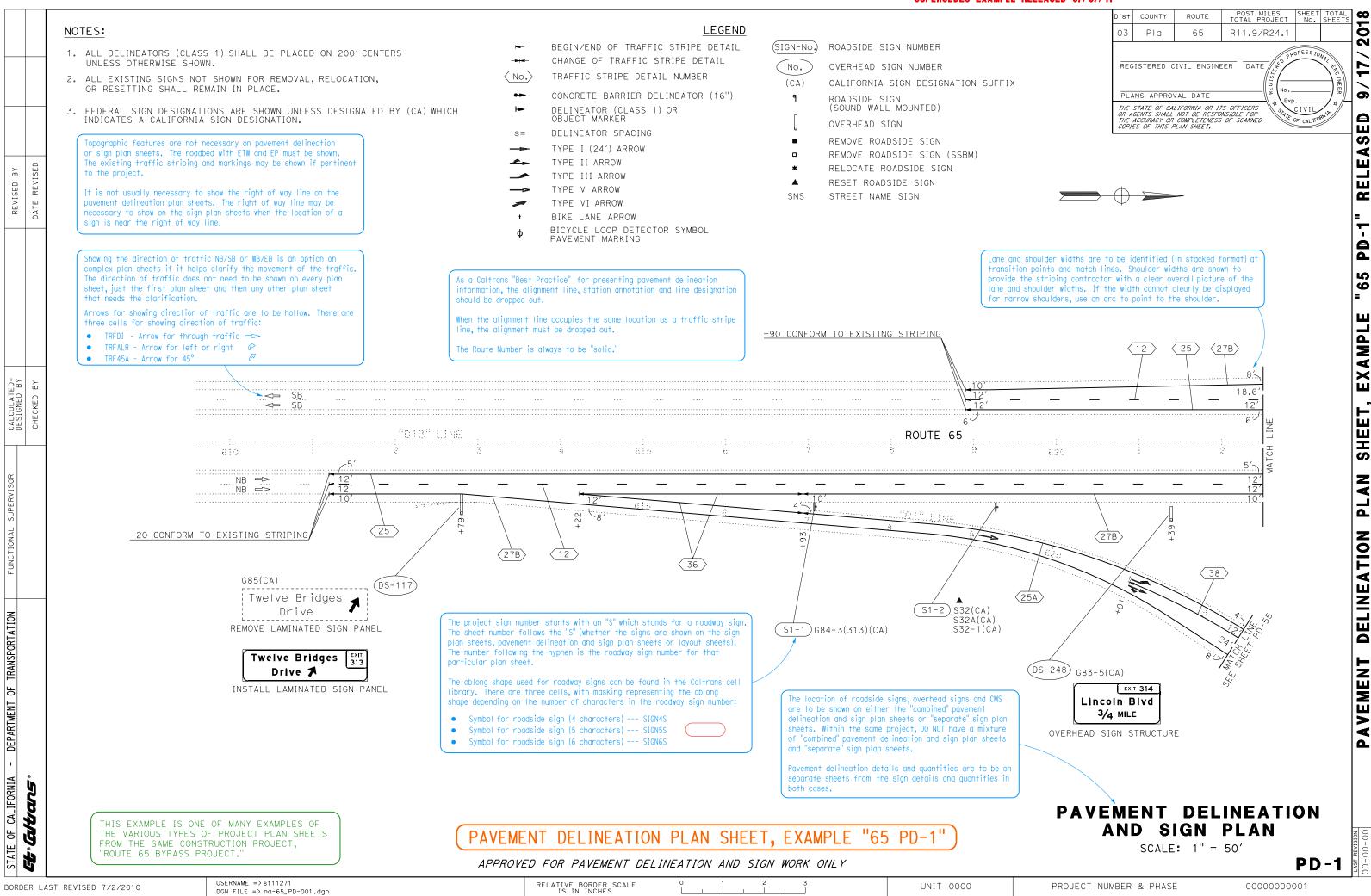
When additional quantities of temporary items for traffic handling are shown on plan sheets other than the traffic handling plans, add a cross reference note regarding additional quantities on other plan sheets.

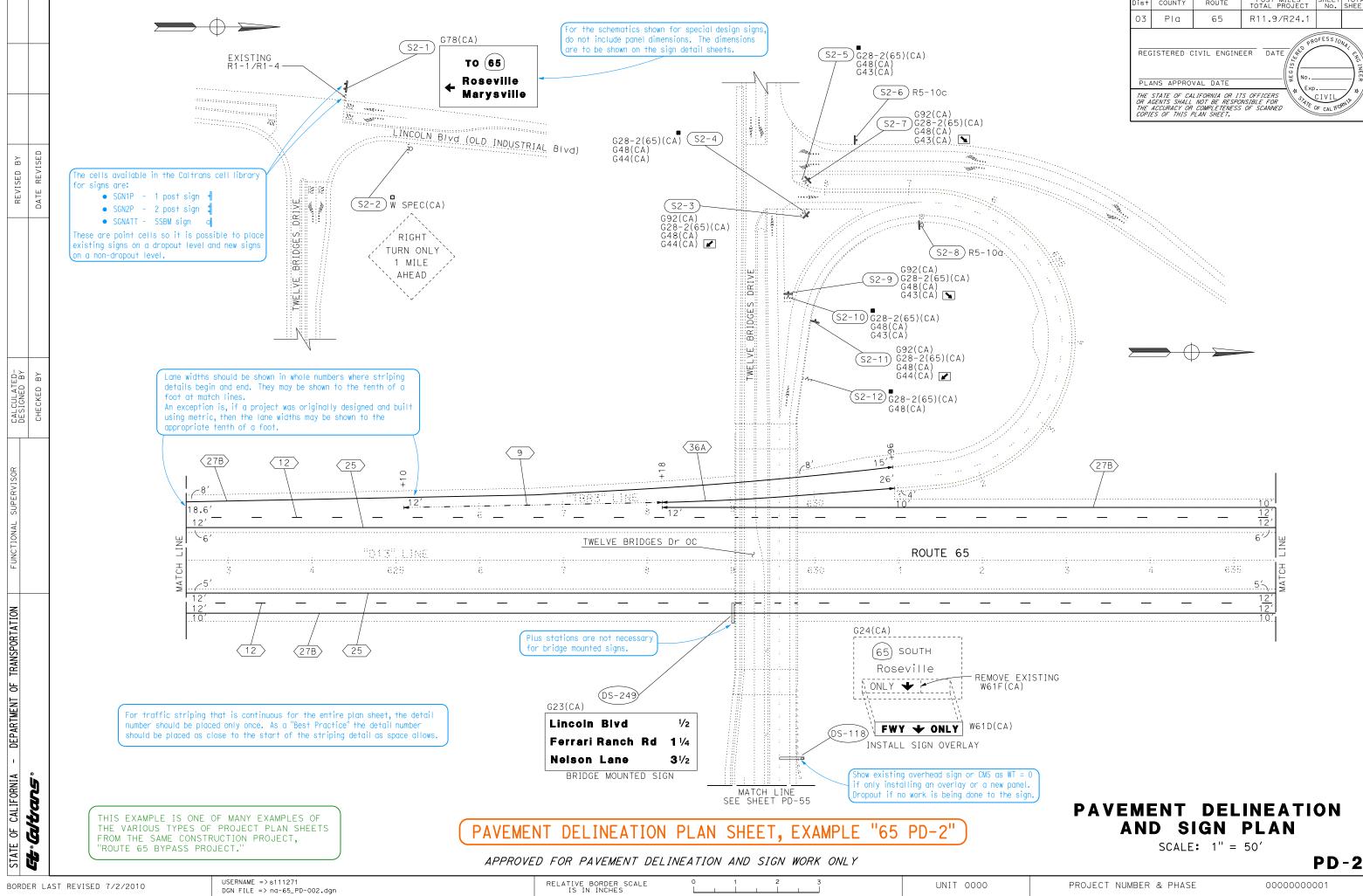
# TRAFFIC HANDLING QUANTITIES

DATE PLOTTED => 28-0CT-2021 TIME PLOTTED => 15:06

REVISION 00-00 LAST F

TRAFFIC HANDLING SHEET RELEASED 11/05/2021





### SUPERSEDES EXAMPLE RELEASED 07/07/11

 Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL	
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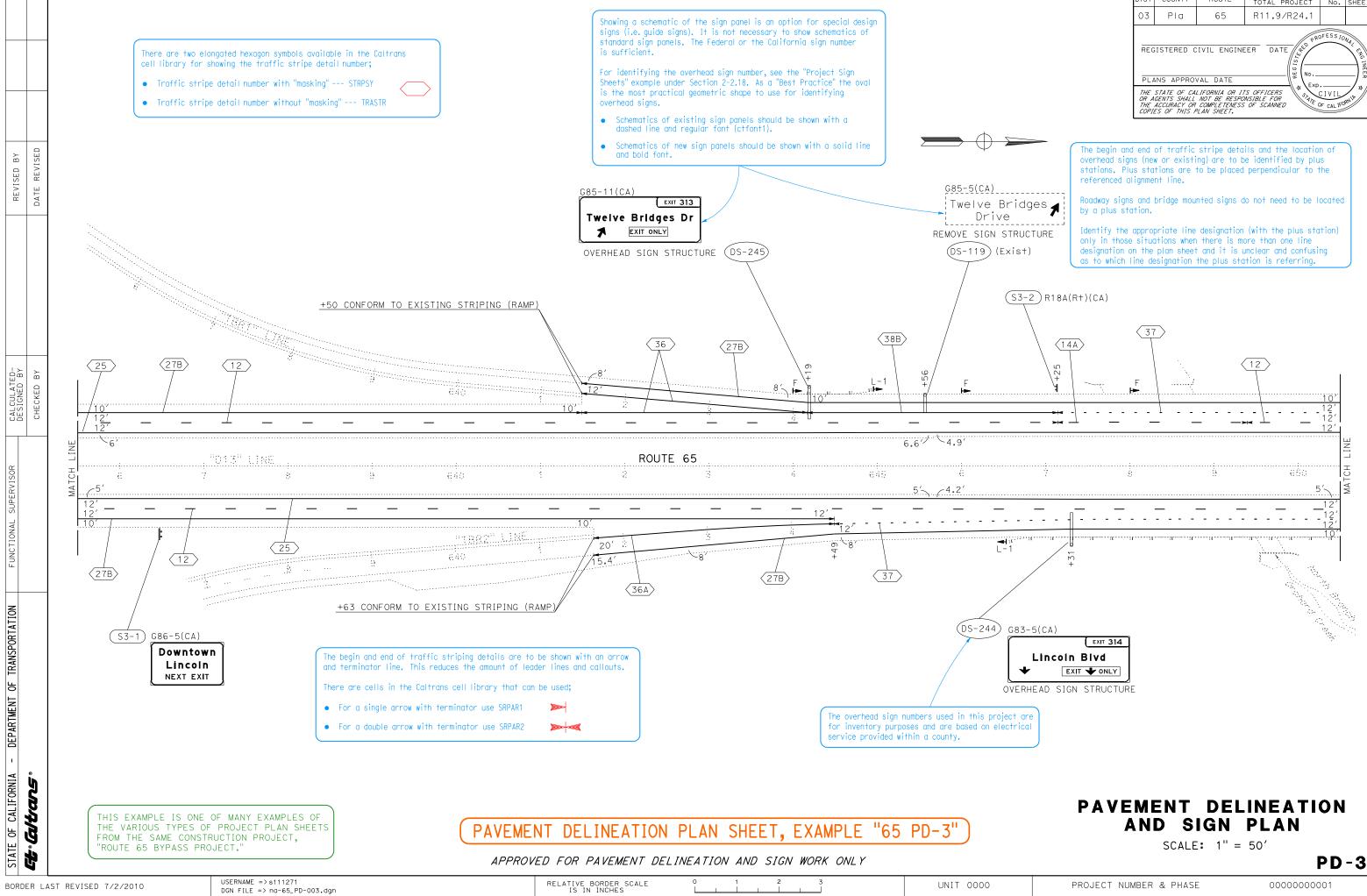
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SHEET, EXAMPLE

PLAN

DELINEATION

PAVEMENT





	Dis†	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS	18
	03	Pla	65	R11.9/R24.1			201
	PLA THE OR A THE	ANS APPRO' STATE OF CA. GENTS SHALL	LIFORNIA OR IN NOT BE RESPO COMPLETENESS		CIVIL CIVIL	ENG INEER	ED 9/17/2
l sign . Plu	l end is (nei is sta	of traffic w or existi	stripe deta ng) are to b	ils and the locatio e identified by plu perpendicular to -	IS		RELEASE

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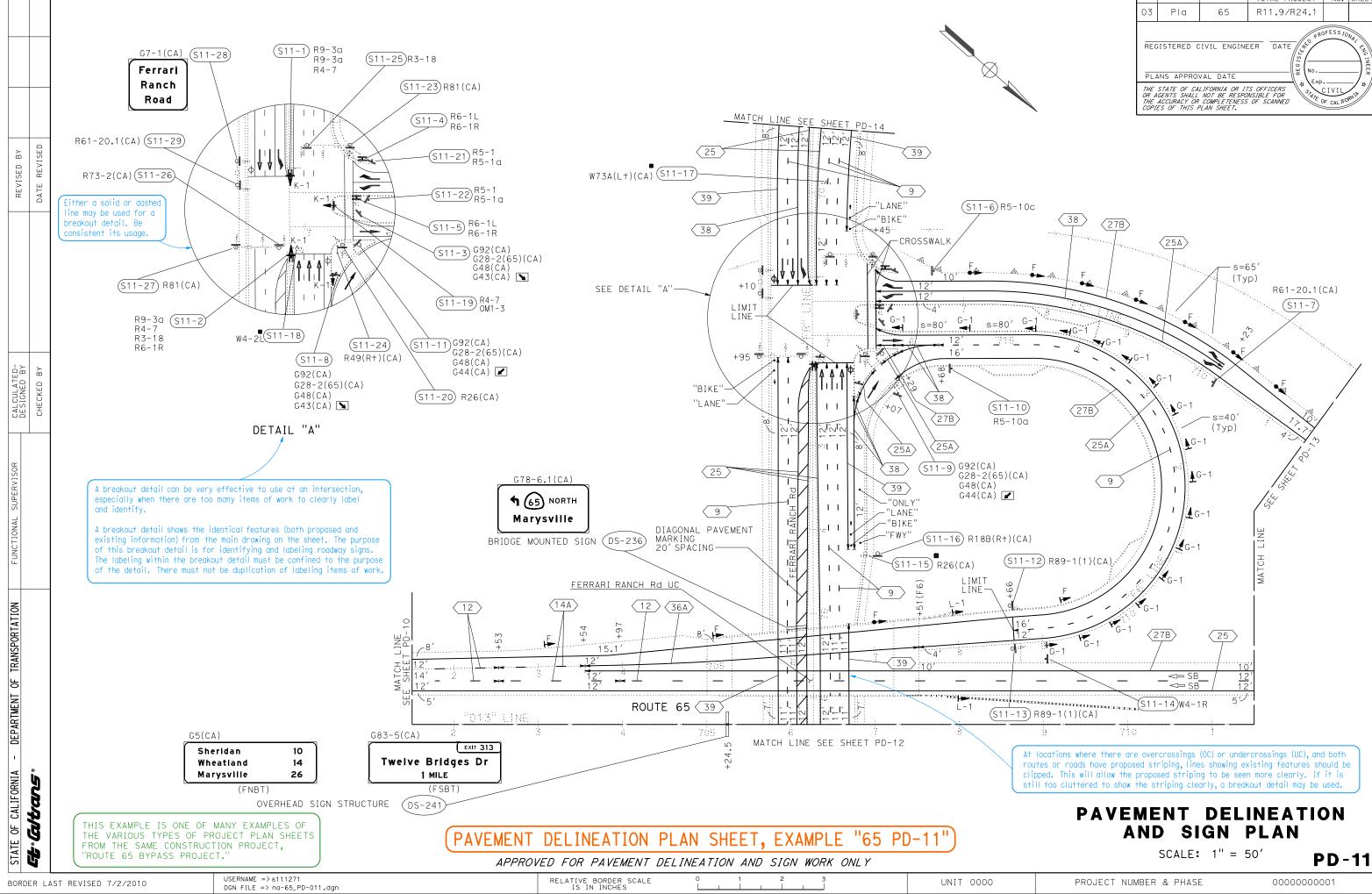
EXAMPLE

SHEET,

PLAN

DELINEATION

PAVEMENT



### SUPERSEDES EXAMPLE RELEASED 07/07/11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	65	R11.9/R24.1		
PL THE OR A THE	ANS APPRO STATE OF CA AGENTS SHALL	LIFORNIA OR II NOT BE RESPO COMPLETENESS		CIVIL DF CALIFO	ENG INEER *

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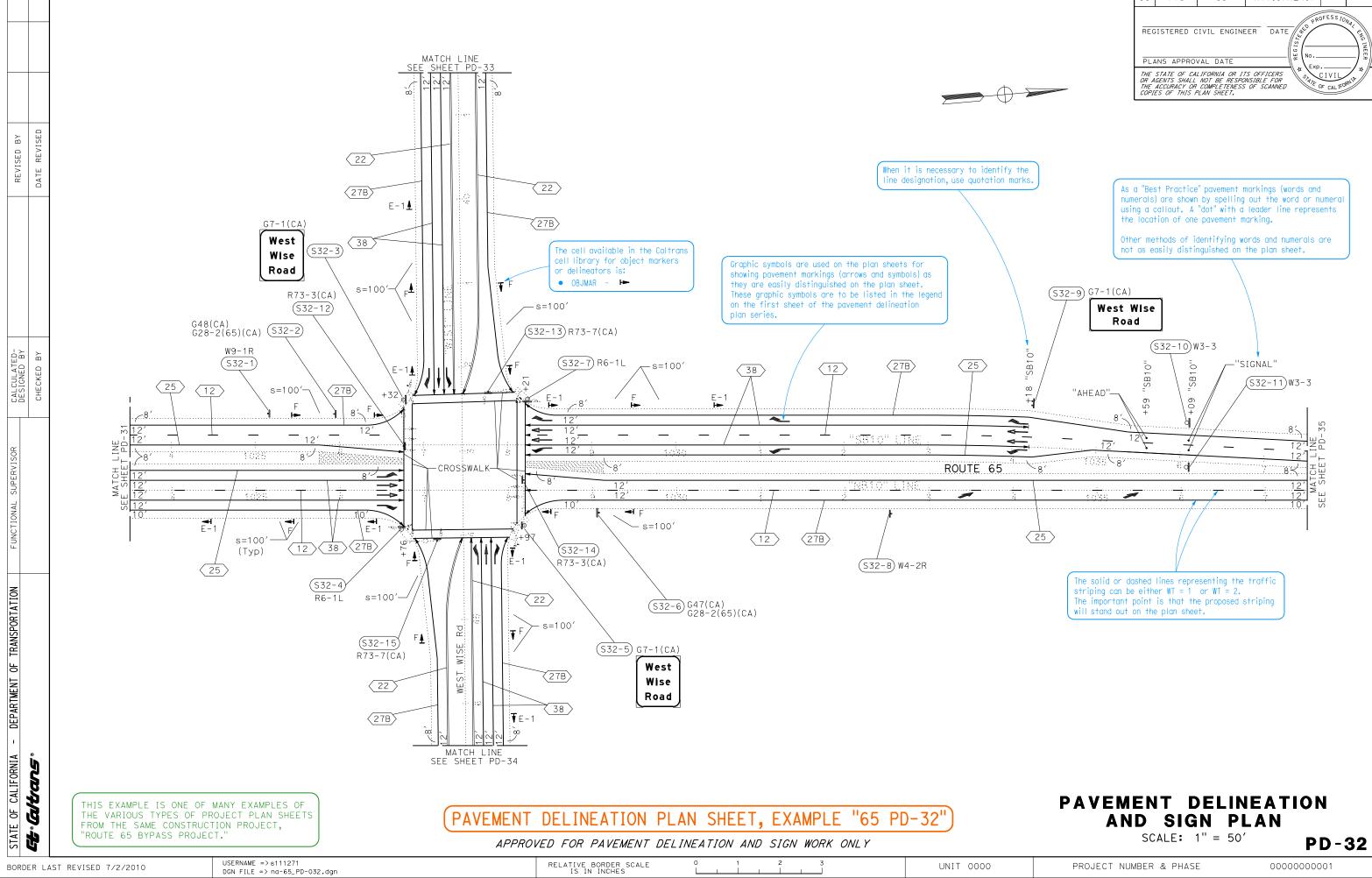
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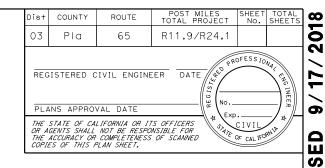
DELINEATION

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**RELEA** 

PD-32"

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SHEET, EXAMPLE

PLAN

DELINEATION

PAVEMENT

This quantity sheet reflects the values from the three examples sheets, "65 PD-1", "65 PD-2" and "65 PD-3." Some of the traffic striping details extend beyond the 3rd plan sheet example, but for the purpose of this quantity sheet example, all striping details end at the match line 650+50 for the "D13" line.

If it takes more than one quantity sheet to show a quantity table, the table headings must be identical on each successive quantity sheet.

Object markers or delineators can be included in the ment delineation quantity table if there is room. Otherwise, create a separate quantity table.

When station limits refer to the same line designation, only show the line designation with the first station limits.

## **PAVEMENT DELINEATION QUANTITIES**

SHEET NO. LOCATION/STATION	ION	No.		THERMOPLAS AFFIC STRI			MOPLASTIC C STRIPE	THERMOPLASTIC PAVEMENT MARKING		MENT M OREFLE		OI M.
	DIRECTION	ETAIL	WHITE SOLID	WHITE BROKEN	YELLOW SOLID	WHITE SOLID	WHITE BROKEN	THER PAVE MARK	TYPE C	TYPE G	TYPE H	ΤY
			LF	LF	LF	LF	LF	SQFT	EA	EA	EA	
PD-1 - PD-3 "D13" 611+20 TO 650+50	NB	25			3,930						89	
PD-1 - PD-3 "D13" 611+20 TO 650+50	NB	12		3,930	, í					89		
PD-1 "D13" 611+20 TO "R1" 622+50	NB	27B	1,130									
PD-1 "D13" 614+22 TO 616+93	NB	36				542				24		
PD-1 - PD-3 "D13" 616+93 TO 644+49	NB	27B	2,756									
PD-1 "R1" 617+93 TO 622+50	NB	25A	·		457						20	
PD-1 "R1" 619+10	NB							33				
PD-1 "R1" 621+01 TO 622+50	NB	38				149				7		
PD-1 "R1" 621+01	NB							42				
PD-1 "R1" 621+01	NB							45				
PD-1 - PD-2 "D13" 618+90 TO "TBR3" 630+96	SB	27B	1,206									
PD-1 - PD-3 "D13" 618+90 TO 647+25	SB	12	·	2,835						60		
PD-1 - PD-3 "D13" 618+90 TO 650+50	SB	25		,	3,160						66	
PD-2 "TBR3" 625+10 TO 628+18	SB	9		308	ŕ							
PD-2 "TBR3" 628+18 TO 630+96	SB	36A				278				12		
PD-2 - PD-3 "D13" 628+18 TO 641+50	SB	27B	1,332									
PD-3 "TBR1" 641+50 TO 650+50	SB	27B	900									
PD-3 "TBR1" 641+50 TO 644+19	SB	36				538				24		
PD-3 "TBR2" 641+63 TO 650+50	NB	27B	887									
PD-3 "TBR2" 641+63 TO 644+49	NB	36A				286				12		
PD-3 "D13" 644+00 TO 647+75	SB											
PD-3 "D13" 644+19 TO 647+25	SB	38B				306				26		
PD-3 "D13" 644+49 TO 650+50	NB	37					601		8	36		
PD-3 "D13" 646+50	NB											
PD-3 "D13" 647+25 TO 650+50	SB	37					325		8	16		
PD-3 "D13" 647+25 TO 649+35	SB	14A		210					5			1
PD-3 "D13" 649+35 TO 650+50	SB	12		115								
	OTAL		8,211	7,398	7,547	2,099	926		21	306	175	1

Identifying the striping details from begin of detail to end of detail, even if it spans multiple plan sheets, reduces the number of rows needed within the quantity table. It also makes it easy to determine the total number of pavement markers needed for each segment of any particular striping detail.

2

sheet.

THE VARIOUS TYPES OF PROJECT PLAN SHEETS FROM THE SAME CONSTRUCTION PROJECT, "ROUTE 65 BYPASS PROJECT."

THIS EXAMPLE IS ONE OF MANY EXAMPLES OF

PAVEMENT DELINEATION QUANTITY SHEET, EXAMPLE "65 PDQ-1"

BORDER LAST REVISED 7/2/2010

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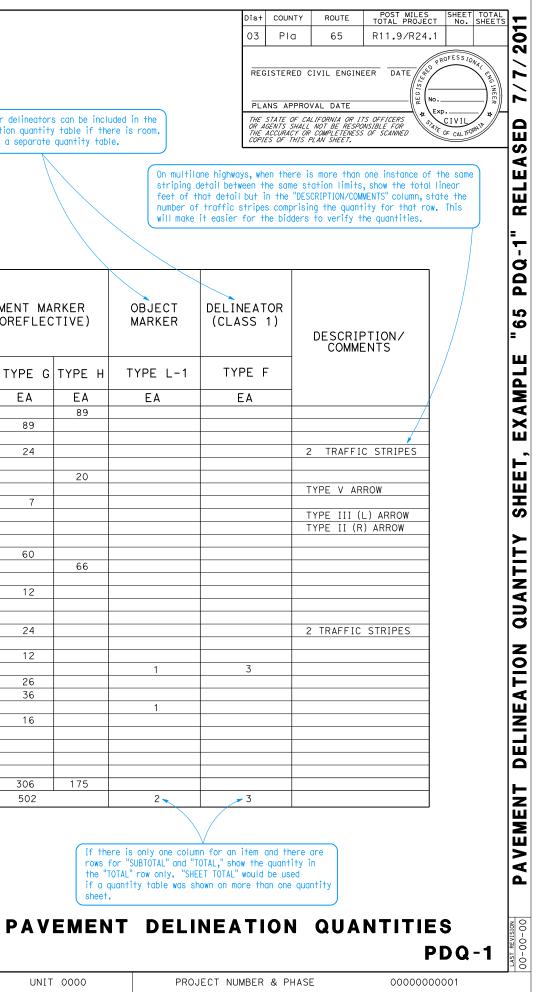
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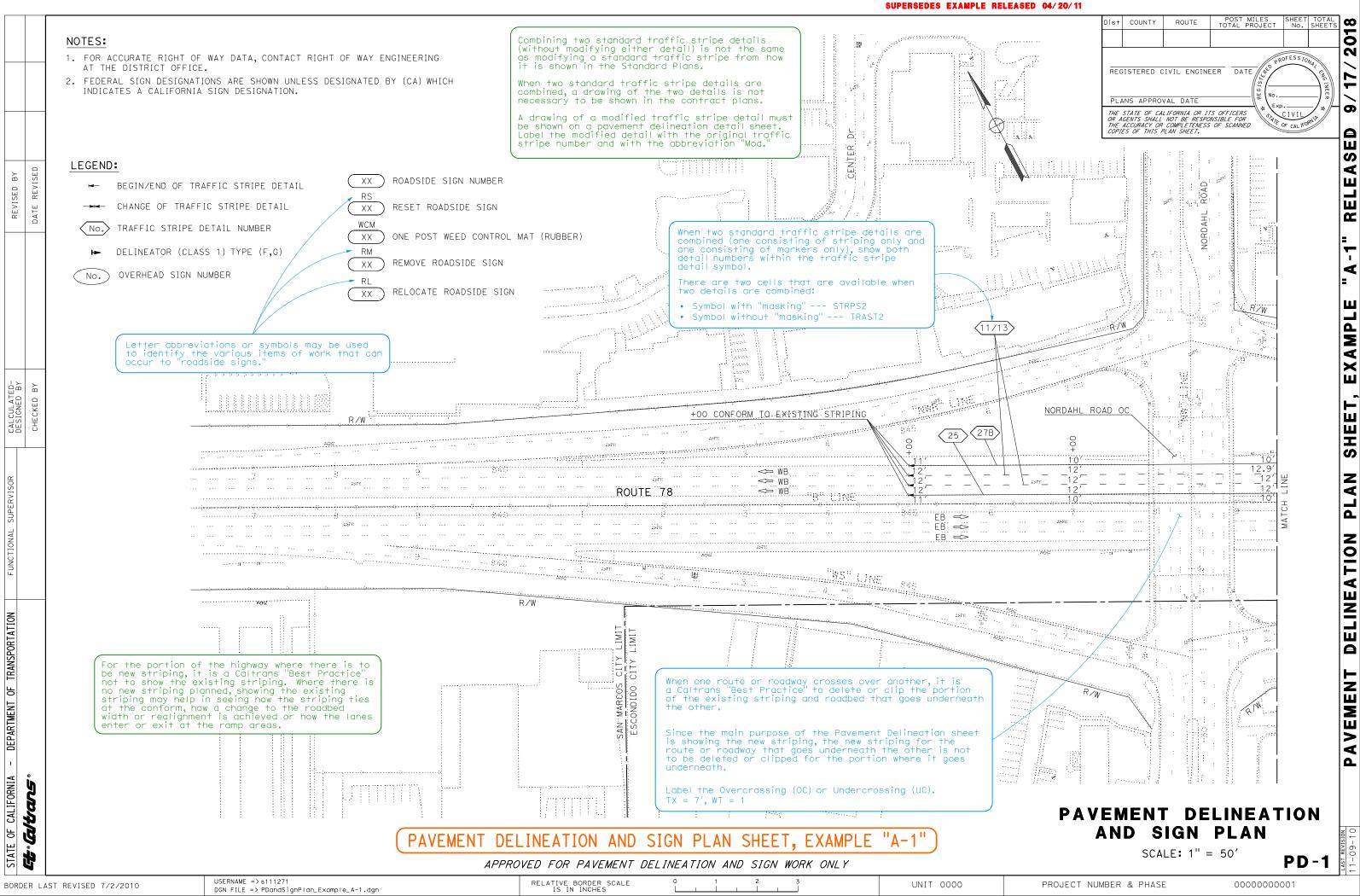
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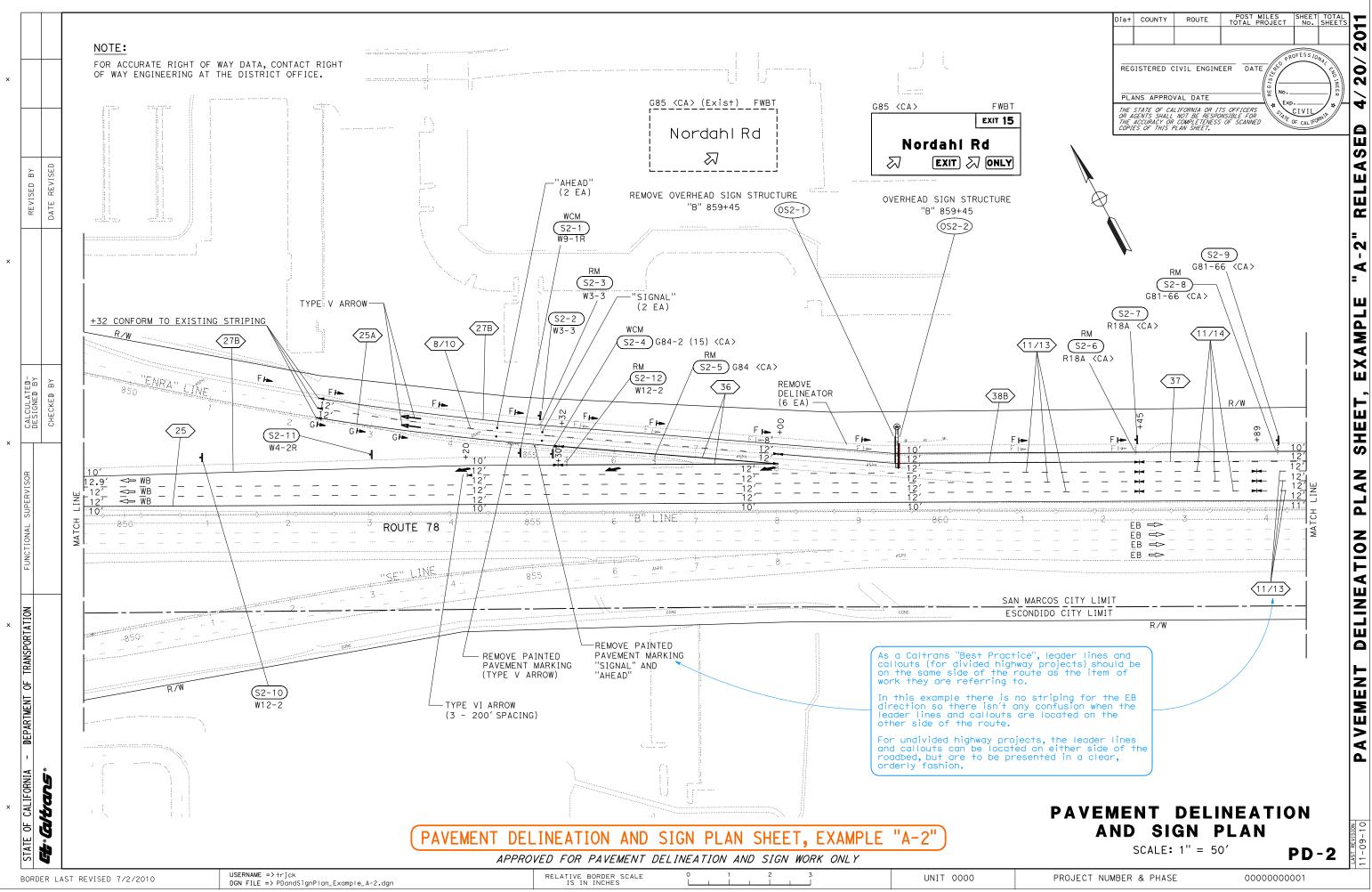
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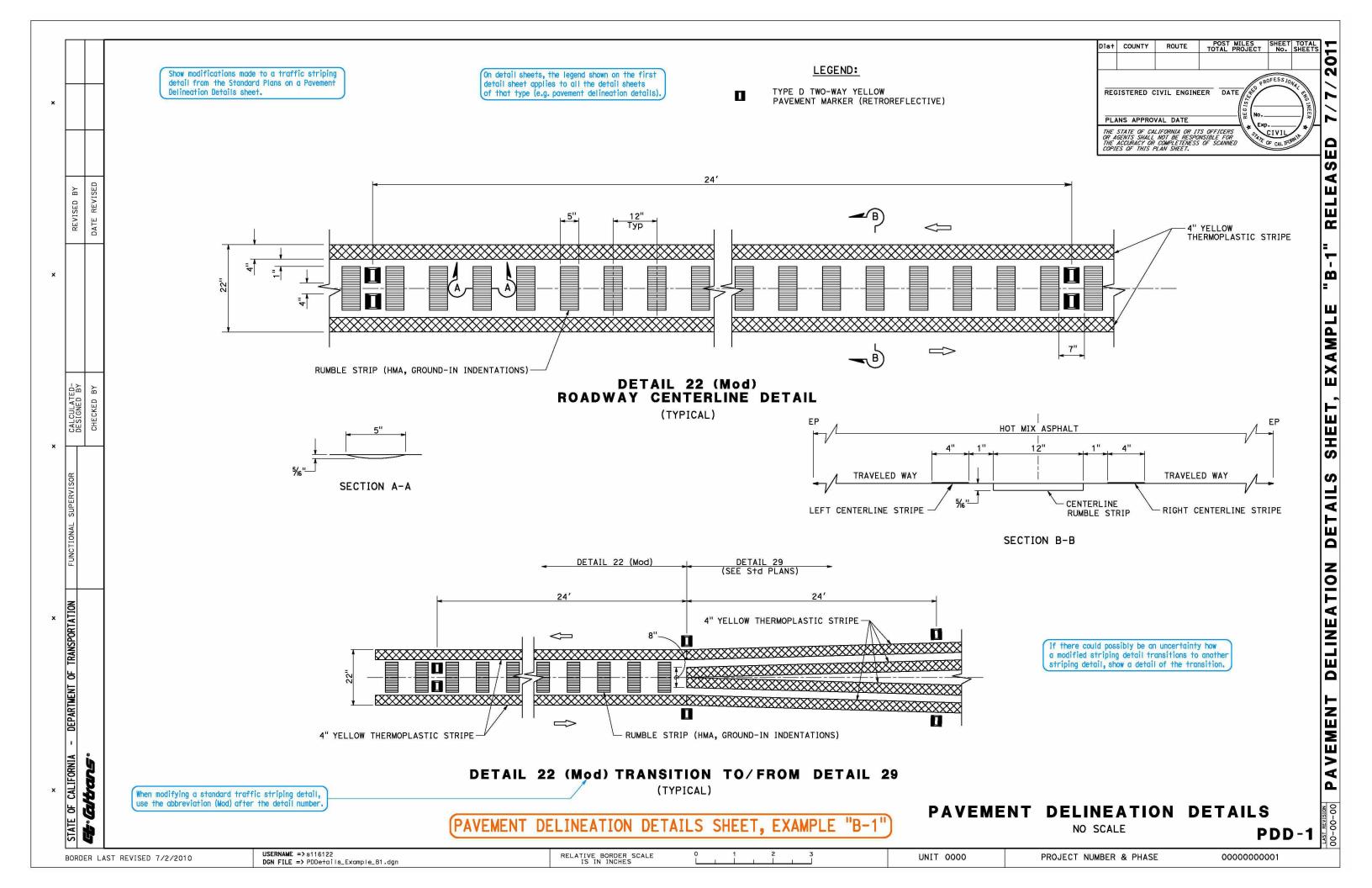
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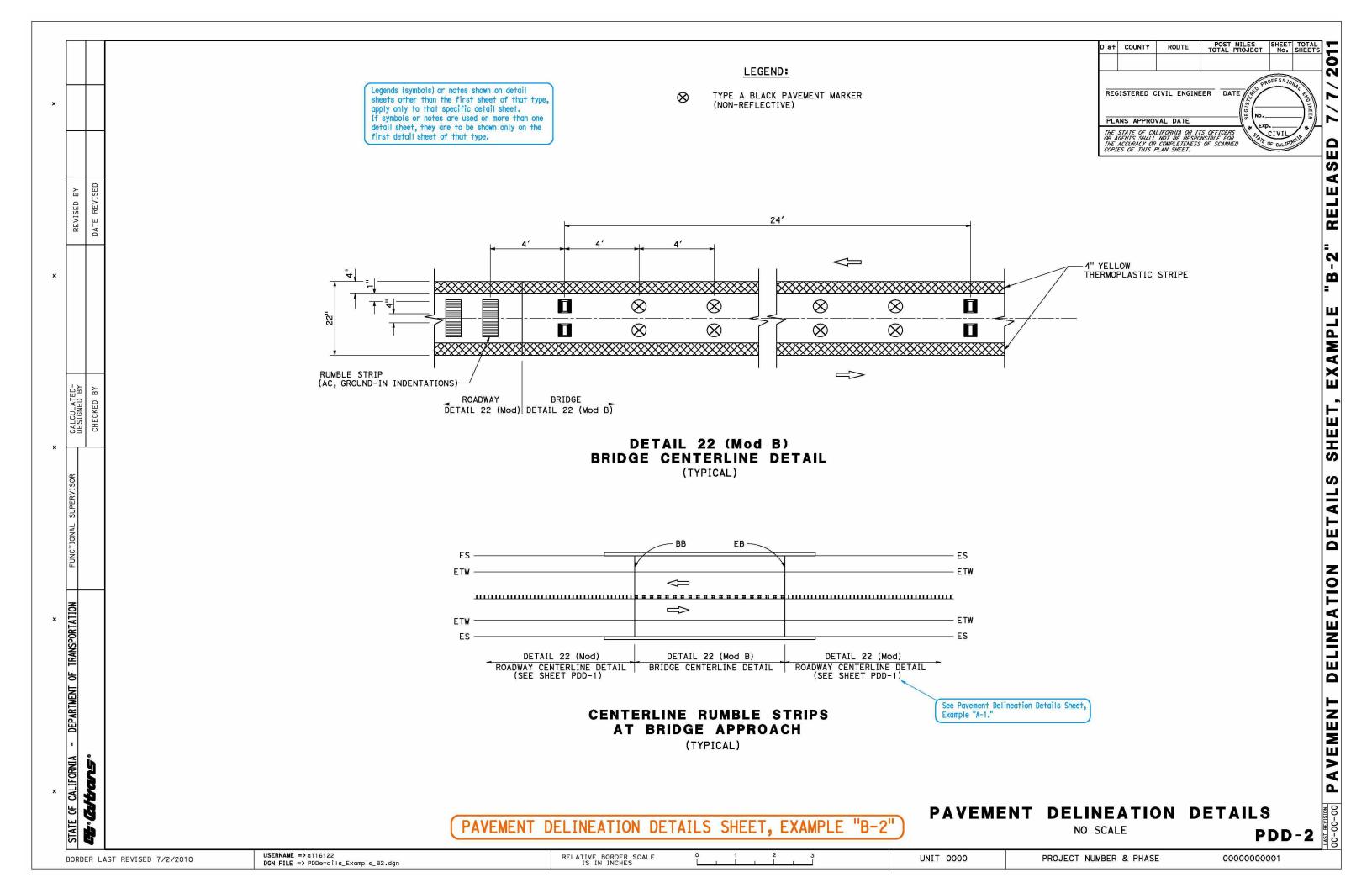
RELATIVE BORDER SCALE IS IN INCHES











The quantities shown in this quantity table come from Examples "A-1" and "A-2."

### In this example, the Traffic Stripe Detail Numb are listed within the "header" of the quantity

## **PAVEMENT DELINEATION QUANTITIES**

					1	HERM	OPLAST	IC TR	AFFIC	STRIP	E					<u> </u>				
					4'	'WHIT	E		4" YELLOW	8	"WHIT	E			MARKI		NG		PAVEMEN	T MAR
	SHEET No.	LOCATION/STATION	RECTION	DETAIL 8/10	DETAIL 11/13	DETAIL 11/14	DETAIL 25	DETAIL 25A	DETAIL 27B	DETAIL 36	DETAIL 37	DETAIL 38B	TYPE V ARROW	TYPE VI ARROW	"SIGNAL"	"AHEAD"	REMOVE PAINTED PAVEMENT MARKING	A TANA NON- REFLECTIVE		ROREF
			DIRE		I F	LF		LF	I F	LF	LF	LF	SQFT	SQFT	SQFT	SQFT	SQFT	EA	EA	
	PD-1 - PD-2	"B" 845+00 TO 855+30	WB		LF	LF		LF	1,030	LF			SUFI	SUFT	SUFI	SUFI	SUFI		EA	EA
	PD-1 - PD-2	"B" 845+00 TO 862+45	WB		3,490				1,030									296		74
	PD-1 - PD-2	"B" 845+00 TO 864+50	WB		3,430		1,950													
	PD-2	"B" 854+20 TO 858+00	WB				1,000							126				+	+	-
	PD-2	"B" 854+20 TO 862+45	WB		825									120				72		18
	PD-2	"ENRA" 851+50 TO "B" 862+00	WB		020															
	PD-2	"ENRA" 852+32 TO "B" 864+50	WB						1,218									1		-
	PD-2	"ENRA" 852+32 TO 853+32	WB						Í										-	
	PD-2	"ENRA" 852+32 TO 858+00	WB	568														72	-	13
	PD-2	"ENRA" 852+32 TO 855+32	WB					300												
	PD-2	"ENRA" 853+54	WB										66							
	PD-2	"ENRA" 854+55	WB													62				
	PD-2	"ENRA" 854+67	WB														33			
	PD-2	"ENRA" 855+02	WB														31			
	PD-2	"ENRA" 855+10	WB												64					
	PD-2	"ENRA" 855+22	WB														32	L		
-	PD-2	"ENRA" 855+32 TO 858+00	WB							268								<u> </u>		12
	PD-2	"B" 855+30 TO 858+00	WB							270										12
	PD-2	"ENRA" 858+00 TO "B" 862+45	WB								0.05	445								40
	PD-2	"B" 862+45 TO 864+50	WB								205								8	10
	PD-2	"B" 862+45 TO 863+89	WB		107	432												36	12	
	PD-2	"B" 863+89 TO 864+50	WB		183													24		9
		SUBT		568	4,498	432	1,950	300	2,248	538	205	445	66	126	64	62			20	188
1			TAL	500	ספר,דן		996	500	1 2,270	550	1,188	1 7			18	02	96	500	- 20	264
1		10	TAL			э,	990				1,100			د	10		90	<u>500</u>		204

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# (PAVEMENT DELINEATION QUANTITIES SHEET, EXAMPLE "A-3"

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BORDER LAST REVISED 7/2/2010

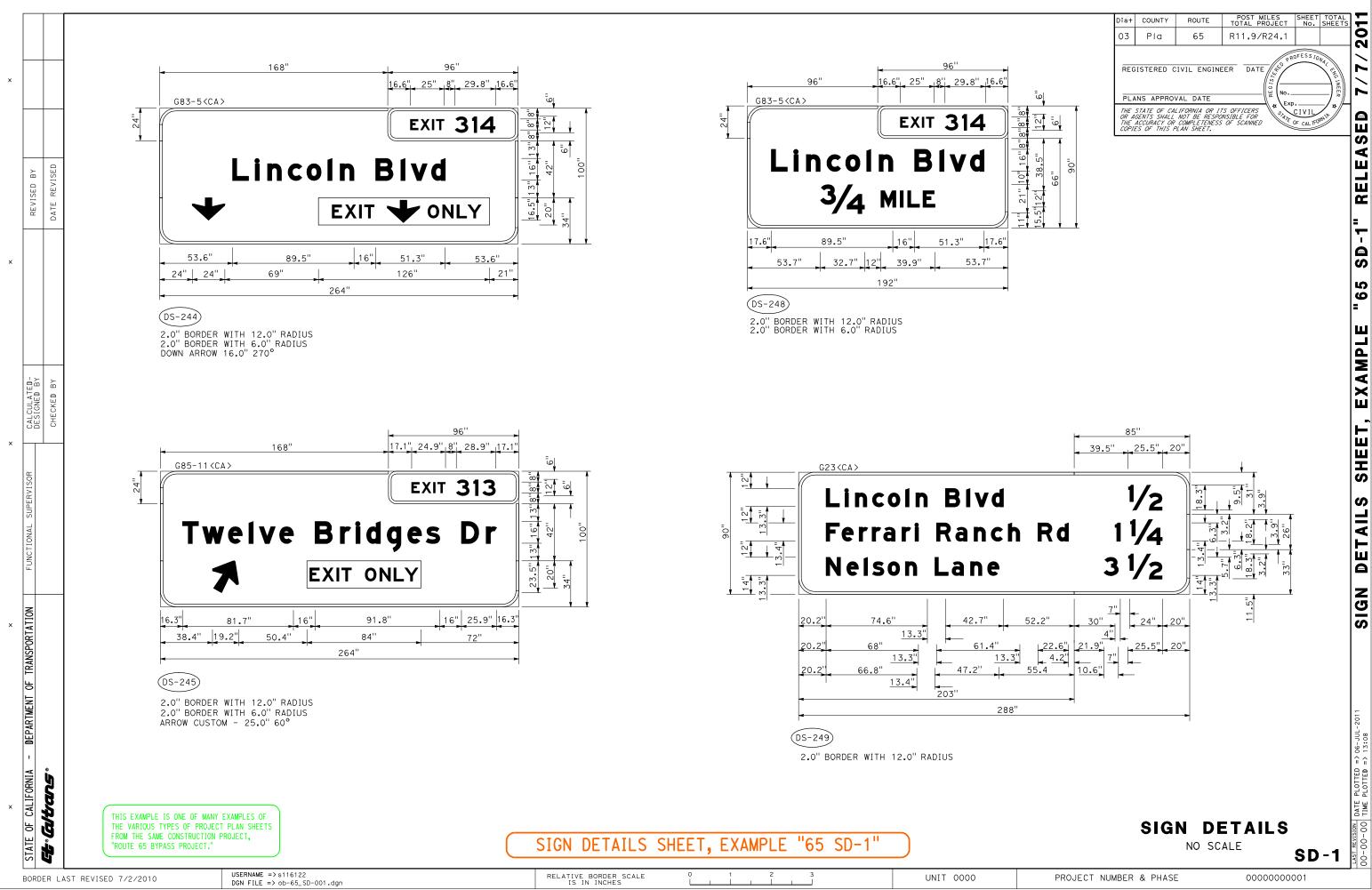
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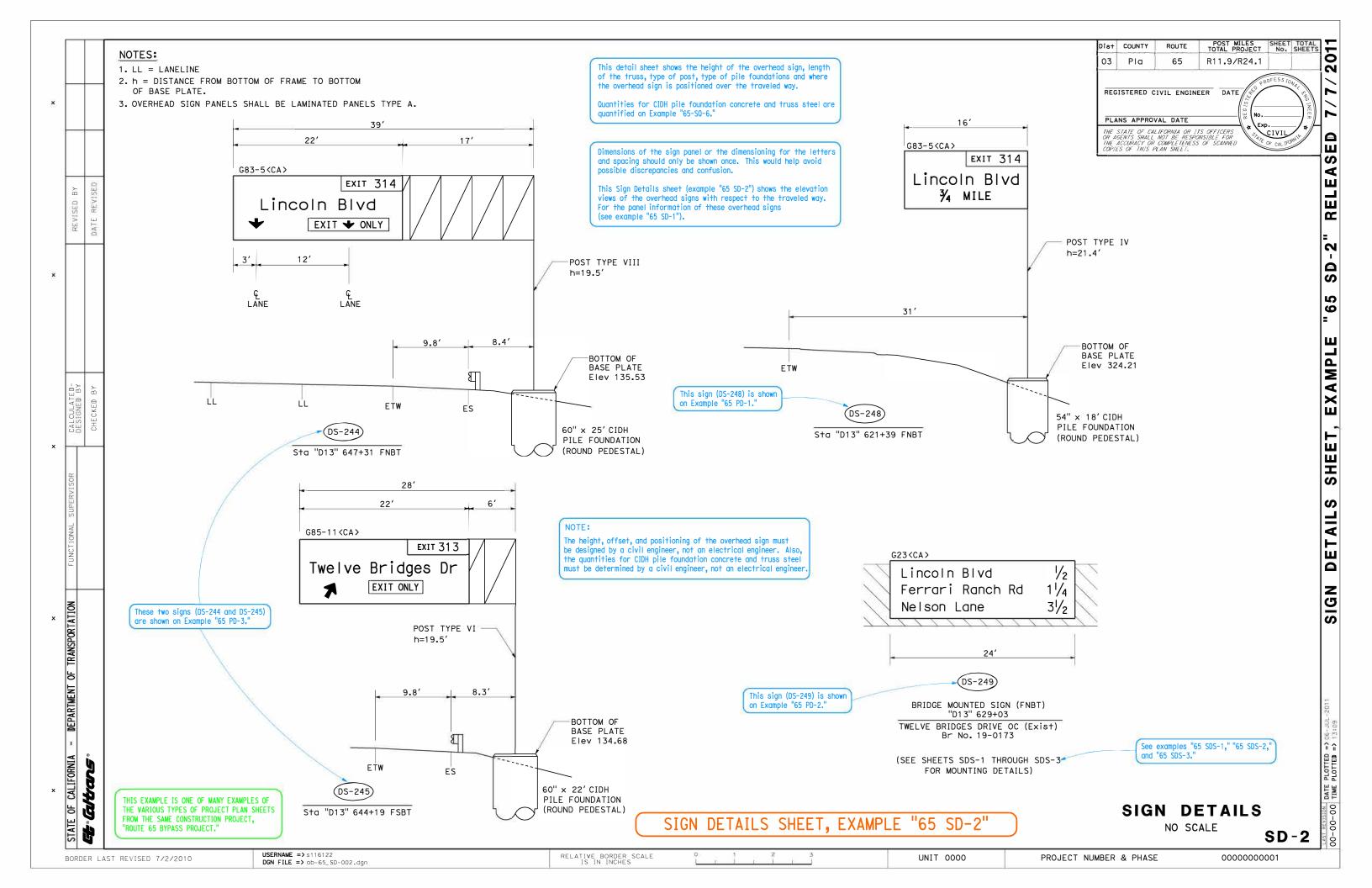
		Dis+	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS	5
		PLA	ISTERED CI NS APPROVA	AL DATE		OFESS JONA, CHO INEER	0 4/ 20/ 201
ers table	ə.)	COPIE	ACCURACY OR O 'S OF THIS PL	COMPLETENES AN SHEET.	s of scanned	OF CAL IN	RELEASED
RKEI	२						E "A-3"
FLE	CTIVE		NEATOR SS 1)	D	ESCRIPTION/ COMMENTS		EXAMPL
E G A	TYPE H EA	TYPE F EA	TYPE EA	<u>G</u>	TRAFFIC STRIPE	s	SHEET,
8	42	10			3 EACH		TITIES
3	14		3		2 EACH 2 EACH TYPE V ARROW		QUANTIT
2 2 0 0					"AHEAD" 2 EACH "SIGNAL"		DELINEATION
9					TRAFFIC STRIPE TRAFFIC STRIPE		
38 64	56	10	13				PAVEMENT
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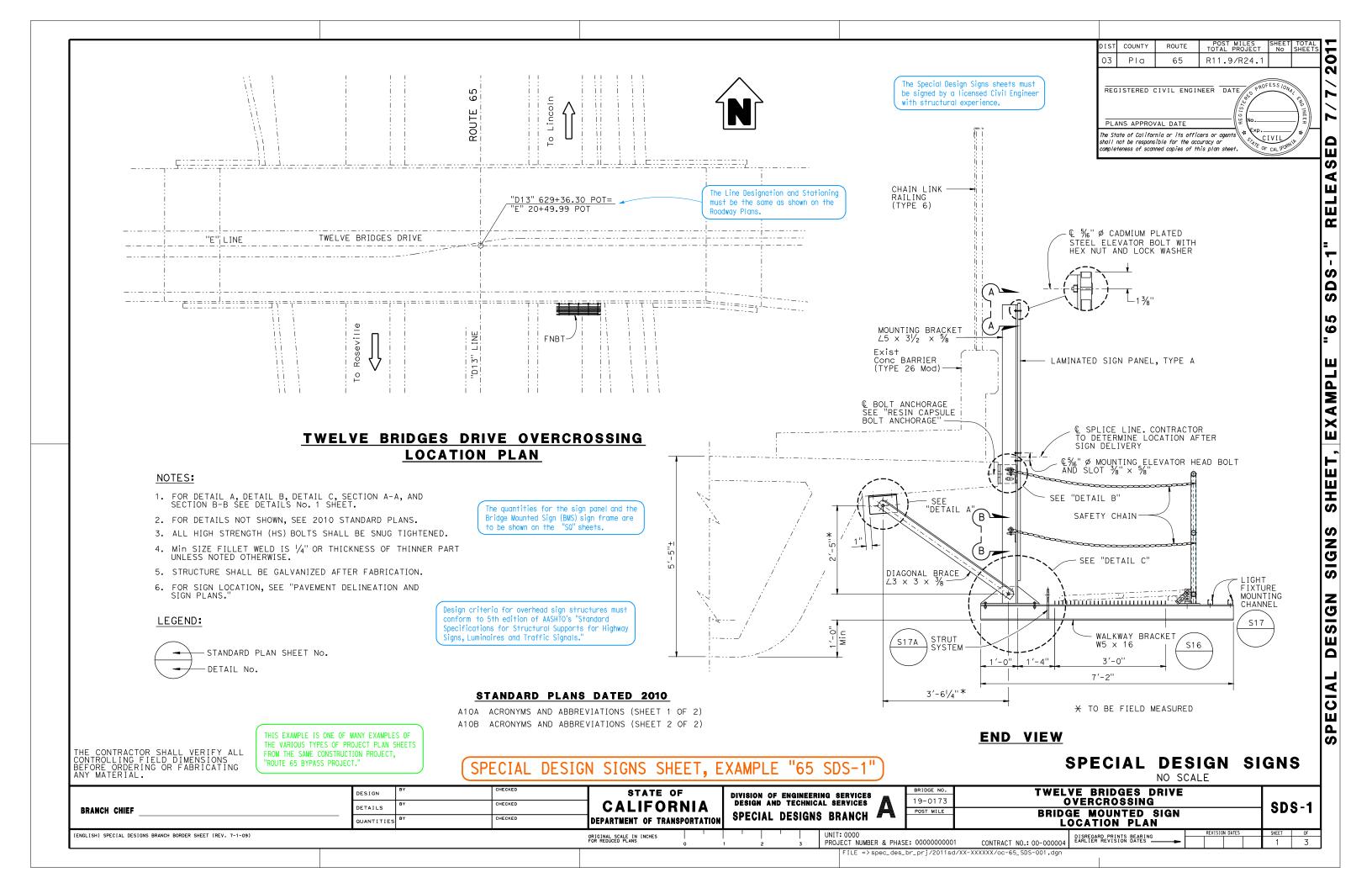
QUANTITIES

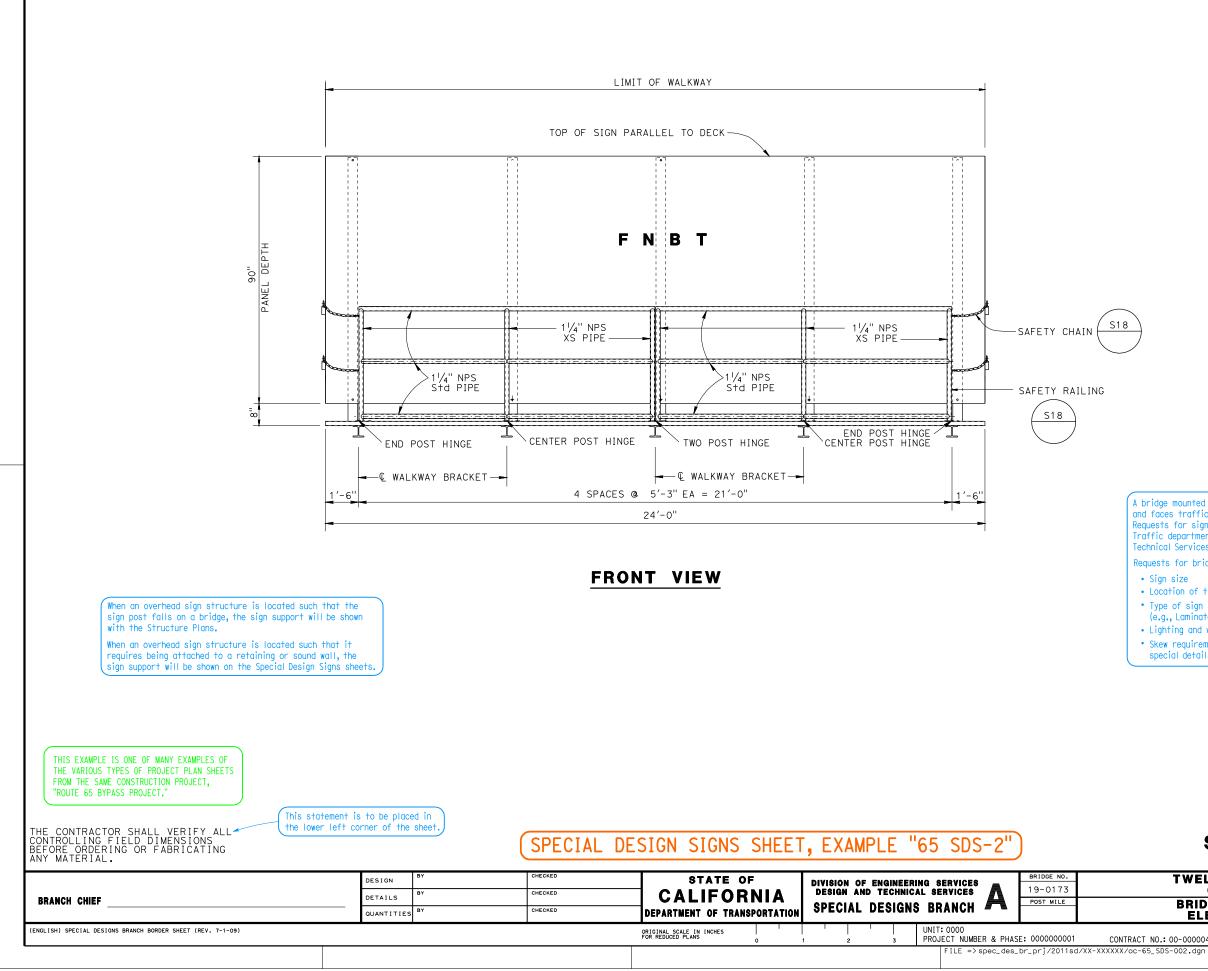
PDQ-2

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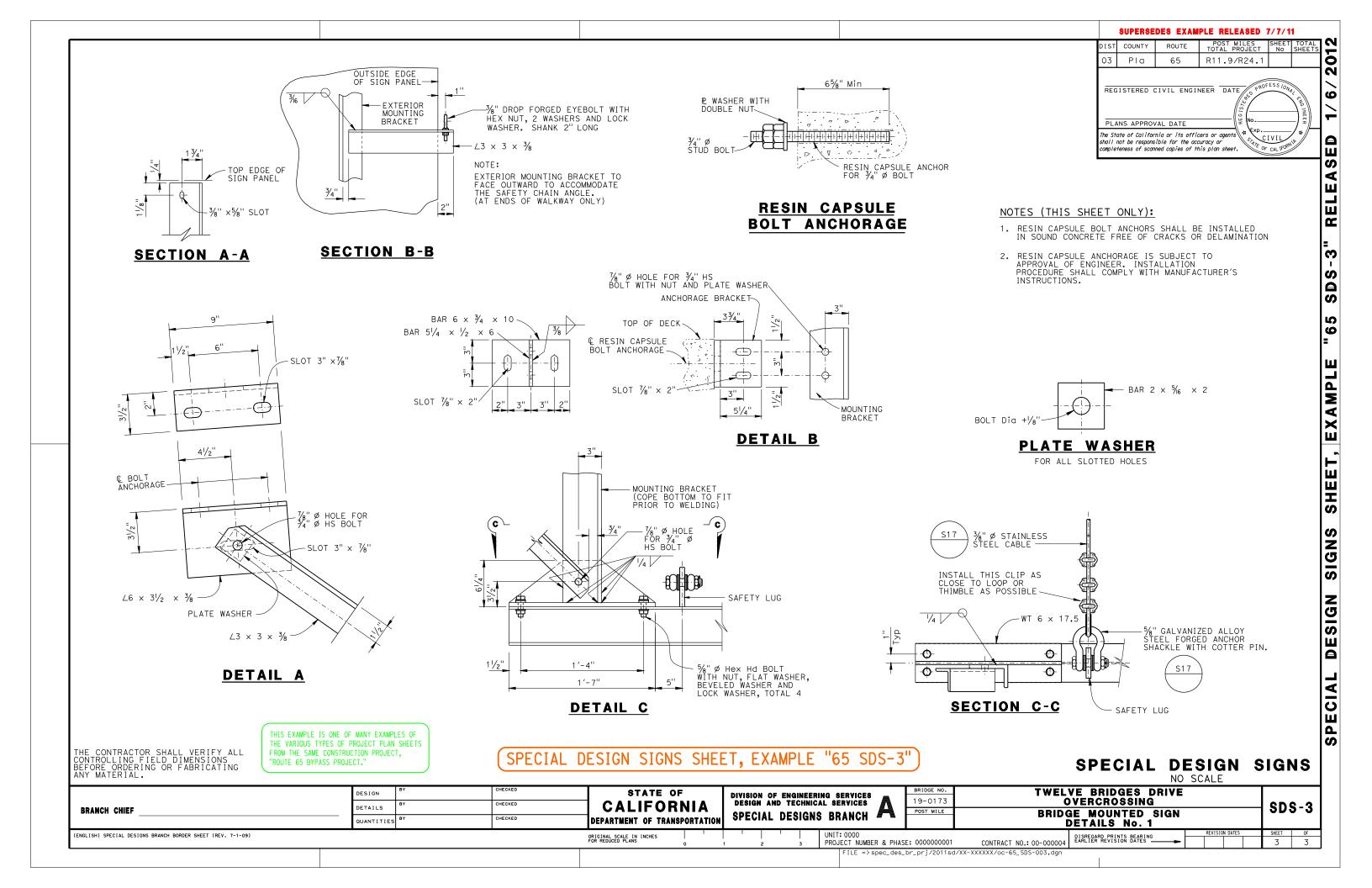








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and faces traffic	sign is mounted on t passing under the b	ridge structure	e. Š	
Requests for sign Traffic departmen	mounting details are its and are routed to	e initiated by Office of Des	the District	
	, Special Designs Bra Ige mounted signs sho		e following:	
Requests for brid	ne mounted sign			
Requests for brid • Sign size • Location of th		vable Sign Pane		
<ul> <li>Sign size</li> <li>Location of the sign provide  the sign provide</li></ul>	ed Panel Type A, Remo	vable sign ran	el Frame, etc.) 📔	
<ul> <li>Sign size</li> <li>Location of the sign processing of sign processing sign procesing sign processing</li></ul>	ed Panel Type A, Remo valkway requirements ent (skewed bridge m	, i i i i i i i i i i i i i i i i i i i		
<ul> <li>Sign size</li> <li>Location of th</li> <li>Type of sign p (e.g., Laminate</li> <li>Lighting and w</li> </ul>	ed Panel Type A, Remo valkway requirements ent (skewed bridge m	, i i i i i i i i i i i i i i i i i i i		
<ul> <li>Sign size</li> <li>Location of the sign processing of sign processing sign procesing sign processing</li></ul>	ed Panel Type A, Remo valkway requirements ent (skewed bridge m	, i i i i i i i i i i i i i i i i i i i		
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<ul> <li>Sign size</li> <li>Location of the sign processing of sign processing sign procesing sign processing</li></ul>	ed Panel Type A, Remo valkway requirements ent (skewed bridge m	, i i i i i i i i i i i i i i i i i i i		
<ul> <li>Sign size</li> <li>Location of the sign processing of sign processing sign procesing sign processing</li></ul>	ed Panel Type A, Remo valkway requirements ent (skewed bridge m	, i i i i i i i i i i i i i i i i i i i		
<ul> <li>Sign size</li> <li>Location of the sign processing of sign processing sign procesing sign processing</li></ul>	ed Panel Type A, Remo valkway requirements ent (skewed bridge m	, i i i i i i i i i i i i i i i i i i i		
<ul> <li>Sign size</li> <li>Location of the sign processing of sign processing sign procesing sign processing</li></ul>	ed Panel Type A, Remo valkway requirements ent (skewed bridge m	, i i i i i i i i i i i i i i i i i i i		
<ul> <li>Sign size</li> <li>Location of th</li> <li>Type of sign p (e.g., Laminata</li> <li>Lighting and w</li> <li>Skew requirem special details</li> </ul>	ed Panel Type A, Remo valkway requirements ent (skewed bridge m	DES	I need	GNS
<ul> <li>Sign size</li> <li>Location of th</li> <li>Type of sign p (e.g., Laminate</li> <li>Lighting and v</li> <li>Skew requirem special details</li> </ul>	ed Panel Type A, Remo walkway requirements ent (skewed bridge m s) SPECIAL .VE BRIDGES	DES NO SCA	I need	GNS
<ul> <li>Sign size</li> <li>Location of th</li> <li>Type of sign p (e.g., Laminatk</li> <li>Lighting and v</li> <li>Skew requirem special details</li> </ul>	ed Panel Type A, Remo walkway requirements ent (skewed bridge m s) SPECIAL VE BRIDGES OVERCROSSII GE MOUNTED	DES NO SCA DRIVE	I need	GNS SDS-



### NOTES:

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- 1. EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
- 2. POST LENGTHS GIVEN ARE APPROXIMATE.
- 3. "C" DIM = VERTICAL CLEARANCE EP TO BOTTOM OF SIGN PANEL.
- 4. (N) NOT A SEPARATE BID ITEM.
- 5. SIGN PANEL TO BE MOUNTED ON TYPE I PEDESTRIAN BARRICADE.
- 6. SIGN PANEL TO BE MOUNTED ON SIGNAL MAST ARM.
- 7. SIGN PANEL TO BE MOUNTED ON SIGNAL STANDARD.
- 8. SIGN PANEL TO BE MOUNTED ON SIGNAL STANDARD DIRECTLY ABOVE THE SIGNAL MAST ARM CONNECTION.
- 9. SIGN PANEL TO BE MOUNTED ON ELECTROLIER.
- 10. SIGN PANEL TO BE MOUNTED ON ADVANCE FLASHING BEACON STANDARD. SEE ELECTRICAL PLANS FOR DETAILS.

The cost of installing a sign panel is typically handled as a separate pay item but can (in certain circumstances) be included in the cost of a <u>related</u> item. The cost of a sign panel (contractor furnished as a "bid item") is to be paid for separately from the installation of the roadside sign or overhead sign.

The "C" dimension represents the vertical distance from the bottom of the sign panel to the elevation at ETW (see Standard Plans RS1). This is a very important column to include in the roadside sign quantity table. This dimension greatly assists the Contractor and the Resident Engineer when it comes to placing the sign panel at the appropriate height.

## ROADSIDE SIGN QUANTITIES

				· · · ·					GN QU		U				
SHEET	SIGN NUMBER		SIGN PANEL	' DIM FEET	POST		AND LE			DE SIGN	INSTALL SIGN	REMOVE ROADSIDE	REMOVE ROADSIDE	RESET ROADSIDE	
NUMBER		SIGN DESIGNATION	~ ~		4"×4"	4"×6"	6"v6"	ເບັນດາ	ONE POST	TWO POST	(SSBM)	SIGN	SIGN (SSBM)	SIGN	REMARKS
	(SIGN-No.)		INCHES		4 × 4	4 X0	0 X0	0 X 0	EACH	EACH	EACH	EACH	EACH	EACH	
	S1-1	G84-3(313)(CA)	48 × 60	7			18′		1						
PD-1	S1-2	S32(CA) S32A(CA) S32-1(CA)												1	
	S2-1 S2-2	G78(CA) W SPEC	78 × 42	5		14′				1			1		
	S2-3	G92(CA) G28-2(65)(CA) G48(CA) G44(CA)	48 × 30 24 × 25 21 × 9 21 × 15	2		14′			1						
	S2-4	G28-2(65)(CA) G48(CA) G44(CA)										1			
	S2-5	G28-2(65)(CA) G48(CA) G43(CA)										1			
	S2-6	R5-10c(CA)	24 × 12	5	10′				1						
PD-2	S2-7	G92(CA) G28-2(65)(CA) G48(CA) G43(CA)	$ \begin{array}{c} 48 \times 30 \\ 24 \times 25 \\ 21 \times 9 \\ 21 \times 15 \end{array} $	2		14′			1						
	S2-8	R5-10a(CA)	30 × 36	5							1				SEE NOTE 9
	S2-9	G92(CA) G28-2(65)(CA) G48(CA) G43(CA)	48 × 30 24 × 25 21 × 9 21 × 15	2		14′			1						
	S2-10	G28-2(65)(CA) G48(CA) G43(CA)										1			
	S2-11	G92(CA) G28-2(65)(CA) G48(CA) G44(CA)	48 × 30 24 × 25 21 × 9 21 × 15	2		14′			1						
	S2-12	G28-2(65)(CA) G48(CA)										1			
	S3-1	G86-5(CA)	132 × 78	7				20′		1					
PD-3	S3-2	R18A(R+)(CA)	66 × 48	7		16′		20		1					
				· ·											
	· ·		<u> </u>			SHEE	Γ ΤΟΤΑΙ	_	6	3	1	4	1	1	

THIS EXAMPLE IS ONE OF MANY EXAMPLES OF THE VARIOUS TYPES OF PROJECT PLAN SHEETS FROM THE SAME CONSTRUCTION PROJECT, "ROUTE 65 BYPASS PROJECT."

# SIGN QUANTITIES SHEET, EXAMPLE "65 SQ-1"

The display of the sign panel size values should be centered

BORDER LAST REVISED 7/2/2010

USERNAME =>s111271 DGN FILE => od-65_SQ-001.dgn RELATIVE BORDER SCALE IS IN INCHES

on the "x" for a consistent look.

UNIT 0000

Dist	COUNTY	ROUTE	POST MILES	SHEET	
UIST	COUNTY	ROUTE	TOTAL PROJECT	No.	SHEETS
03	Pla	65	R11.9/R24.1		
	ISTERED C	VAL DATE	EER DATE	OFESS IO	ENG INEER
OR A THE	GENTS SHALL	LIFORNIA OR II NOT BE RESPO COMPLETENESS PLAN SHEET.		CIVIL	

# SIGN QUANTITIES

SQ-1

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	NUMBER       \$IGN-No,       \$11-1       \$11-2       \$11-3       \$11-4       \$11-5	SIGN DESIGNATION R9-3a R9-3a R4-7 R3-18 R6-1R G92(CA) G28-2(65)(CA) G48(CA) G43(CA) R6-1L R6-1R R6-1L R6-1L R6-1L	PANEL SIZE           INCHES           24 × 24           24 × 24           24 × 24           24 × 24           24 × 24           24 × 24           24 × 24           24 × 24           24 × 24           24 × 24           24 × 24           24 × 24           24 × 18           48 × 30           24 × 25           26 × 12           21 × 15           54 × 18	5 5 1.5 2		<b>4"×6"</b> 14' 14'	6"×6"	6"×8"	ONE POST EACH 1	TWO POST EACH	SIGN (SSBM) EACH	ROADSIDE SIGN EACH	SIGN (SSBM) EACH	ROADSIDE SIGN EACH	
	S11-1 S11-2 S11-3 S11-4	R9-3a R4-7 R9-3a R4-7 R3-18 R6-1R G92(CA) G28-2(65)(CA) G48(CA) G43(CA) R6-1L R6-1R	$\begin{array}{c} 24 \times 24 \\ 24 \times 24 \\ 24 \times 30 \\ \\ 24 \times 30 \\ \\ 24 \times 24 \\ 54 \times 18 \\ \\ 48 \times 30 \\ 24 \times 25 \\ 26 \times 12 \\ 21 \times 15 \\ \\ 54 \times 18 \end{array}$	5	4 ×4	14'	6 X6	6 X8	1	EACH	EACH	EACH		EACH	- 
	S11-2 S11-3 S11-4	R9-3a R4-7 R9-3a R4-7 R3-18 R6-1R G92(CA) G28-2(65)(CA) G48(CA) G43(CA) R6-1L R6-1R	$\begin{array}{c} 24 \times 24 \\ 24 \times 30 \\ \\ 24 \times 24 \\ 24 \times 30 \\ 24 \times 24 \\ 54 \times 18 \\ \\ 48 \times 30 \\ 24 \times 25 \\ 26 \times 12 \\ 21 \times 15 \\ \\ 54 \times 18 \end{array}$	5		14'									
	S11-3 S11-4	R4-7 R3-18 R6-1R G92(CA) G28-2(65)(CA) G48(CA) G43(CA) R6-1L R6-1R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.5					1						
	S11-4	G28-2(65)(CA) G48(CA) G43(CA) R6-1L R6-1R	24 × 25 26 × 12 21 × 15 54 × 18	2											
		R6-1R				14'			1						
	S11-5	DC 11	54 x 18	1.5	8′				1						
		R6-1R	54 x 18 54 x 18	1.5	8′				1						
	S11-6	R5-10c	24 × 12	5	10′				1						
	S11-7	R61-20.1(CA)	36 × 30	5	12′				1						
5	S11-8	G92(CA) G28-2(65)(CA) G48(CA) G43(CA)	48 × 30 24 × 25 26 × 12 21 × 15	2		14′			1						
PD-11	S11-9	G92(CA) G28-2(65)(CA) G48(CA) G44(CA)	48 × 30 24 × 25 26 × 12 21 × 15	2		14′			1						
	S11-10	R5-10a	30 × 36	5	12′				1						
	S11-11	G92(CA) G28-2(65)(CA) G48(CA) G44(CA)	48 × 30 24 × 25 26 × 12 21 × 15	2							1 1 1 1				
	S11-12	R89-1(1)(CA)	36 × 16								1				
	S11-13	R89-1(1)(CA)	36 × 16								1				
	S11-14	W4-1R	48 × 48	7			18′		1						
	S11-15	R26(CA)											1		
	S11-16	R18B(R+)(CA)	36 × 36	7							1				
	S11-17 S11-18	W73A(L+)(CA)										1			
	511-18		24 70												
	S11-19	OM1 - 3	24 × 30 18 × 18	4	12′				1						
	S11-20	R26(CA)											1		<u> </u>
		R5-1	36 × 36			1.0/			1						
	S11-21	R5-1a	36 × 24	2		12'			1						
	S11-22	R5-1 R5-1a	36 × 36 36 × 24	2		12′			1						
	S11-23	R81(CA)	24 × 24	7							1				
	S11-24	R49(R+)(CA)	42 × 18												SEE
	S11-25	R3-18	36 × 36												SEE
	S11-26	R73-2(CA)	36 × 36	_											SEE
	S11-27	R81(CA)	24 × 18	7							1				
	S11-28 S11-29	G7-1(CA) R61-20.1(CA)	48 × 42 36 × 30												SEE
	511-29	NOT-20.1(CA)	10 x 30						+						+ SEE
			1	1		TOTAL	1	1	14		10	2	2		+

## **ROADSIDE SIGN QUANTITIES**

THIS EXAMPLE IS ONE OF MANY EXAMPLES OF THE VARIOUS TYPES OF PROJECT PLAN SHEETS FROM THE SAME CONSTRUCTION PROJECT, "ROUTE 65 BYPASS PROJECT."

# SIGN QUANTITIES SHEET, EXAMPLE "65 SQ-2"

BORDER LAST REVISED 7/2/2010

USERNAME =>s111271 DGN FILE => od-65_SQ-002.dgn

RELATIVE BORDER SCALE IS IN INCHES

2

UNIT 0000

RELEASED	07/07/11
RELEAJED	V// V// II

RELEASED 07/07/11	Dis+	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEE No.	TOTAL SHEETS	5
	03	Pla	65	R11.9/R24.1			N
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	PLA	NS APPRC	VAL DATE	N			ה
	THE OR A	STATE OF CA GENTS SHALL	ALIFORNIA OR I NOT BE RESPO COMPLETENES		XP. CIVIL		ב
	COPIL	ES OF THIS	PLAN SHEET.	S OF SCAINIVED	OF CAL IF		ロク
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SEE NOTE 7							
NOTES 4 AND 5 NOTES 4 AND 6						_	
NOTES 4 AND 6 SEE NOTE 7						3-201	
SEE NOTE 8						DATE PLOTTED => 17-SEP-2018	13:51
NOTES 4 AND 6						0 = 1	
						LOTTE	LOTTE.
						ATE P	"IME P.
	SI	GN	QUA	NTITIE	S	D NOI	100
			A		~ ~	REVISION	00-00

# SIGN QUANTITIES

SQ-2

Whether the cost of the installation of the sign panel is paid for as a separate bid item or lumped in with the Electrical System lump sum item covering the mast arm or Type 1 pedestrian barricade, it must be clearly identified in the Sign Quantity sheet, Electrical System sheets, and in the Special Provisions.

For this project, the installation of the sign panels mounted on a signal standard or electrolier is paid for under the item "Install Sign (SSMB)." The installation of sign panels mounted on a signal mast arm is paid for under the Electrical Systems lump sum pay item covering the mast arm. The sign panel installed on the Type 1 pedestrian barricade is included under the cost of construction of the new barricade.

## **ROADSIDE SIGN QUANTITIES**

SHEET	SIGN NUMBER		SIGN PANEL	⁻ DIM FEET	POST	SIZE	AND LE	ENGTH	ROADSID	DE SIGN	INSTALL SIGN	REMOVE ROADSIDE	REMOVE ROADSIDE	RESET ROADSIDE	
NUMBER		SIGN DESIGNATION	SIZE			4"×6"	6"×6"	6"×8"	ONE POST	TWO POST	(SSBM)	SIGN	SIGN (SSBM)	SIGN	REMARKS
	(SIGN-No.)		INCHES	- <mark>-</mark> 2 Z	4 4	4 X0	0 .0	0 20	EACH	EACH	EACH	EACH	EACH	EACH	
	S32-1	W9-1R	48 × 48	5		16′			1						
	S32-2	G48(CA) G28-2(65)(CA)	21 × 9 24 × 25	4	12′				1						
	S32-3	G7-1(CA)	36 × 42								1				SEE NOTE 8
	S32-4	R6-1L	54 × 24	1.5							1				SEE NOTE 7
	S32-5	G7-1(CA)	36 x 42								1				SEE NOTE 8
PD-32	S32-6	G47(CA) G28-2(65)(CA)	21 × 9 24 × 25	4	12′				1						
	S32-7	R6-1L	54 × 24	1.5							1				SEE NOTE 7
	S32-8	W4-2R	48 × 48	5		16′			1						
	S32-9	G7-1(CA)	132 × 60	5			16′			1					
	S32-10	W3-3	48 × 48								1				SEE NOTE 10
	S32-11	W3-3	48 × 48								1				SEE NOTE 10
	S32-12	R73-3(CA)	36 × 36												SEE NOTES 4 AND 6
	S32-13	R73-7(CA)	36 × 36												SEE NOTES 4 AND 6
	S32-14	R73-3(CA)	36 × 36												SEE NOTES 4 AND 6
	S32-15	R73-7(CA)	36 × 36												SEE NOTES 4 AND 6
															<b>X</b>
					SHE	ET TO	TAL		4	1	6				
				SH	IEET SC	1 TO	TAL		6	3	1	4	1	1	
				SH	IEET SC	2-2 TO	TAL		14		10	2	2		
					GRA	ND TO	TAL		24	4	17	6	3	1	

# SIGN QUANTITIES SHEET, EXAMPLE "65 SQ-3"

2

BORDER LAST REVISED 7/2/2010

REVISED

DATE

В≺

REVISED

CALCULATED-DESIGNED BY

FUNCTIONAL SUPERVISOR

- DEPARTMENT OF TRANSPORTATION

STATE OF CALIFORNIA -

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CHECKED

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USERNAME =>s111271 DGN FILE => od-65_SQ-003.dgn RELATIVE BORDER SCALE IS IN INCHES

UNIT 0000

### SUPERSEDES EXAMPLE RELEASED 07/07/11

Dis†	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS	18
03	Pla	65	R11.9/R24.1			Ö
	ISTERED C	IVIL ENGINE	EER DATE	OFESSIO	ENG INEER	9/17/9
OR A THE	GENTS SHALL	LIFORNIA OR II NOT BE RESPO COMPLETENESS PLAN SHEET,		OF CAL IFO	ANILA ANI	D
LUFI	IMIS P	LAN SHEET.				

Note 4 states "(N) - Not a separate bid item." Another option is to place an asterisk in the column and place the note below the table making it unnecessary to look back to a previous sheet for the note.

# SIGN QUANTITIES

-2018 => 17-SEP-: => 13:49 PLOTTED : PLOTTED = DATE TIME F 00 **SQ-3** 

	ROADSIDE	SIGN	PANEL	QUANTITIES
--	----------	------	-------	------------

															03 Pla 65 R1	
						BACKGR	OUND	LEGEN	ID	PROTECTIVE OVERLAY		RNISH SI	NGLE SHE	ET	REGISTERED CIVIL ENGINEER	DATE DATE
	SIGN			PANEL			IVE		TIVE			ALUMINU			PLANS APPROVAL DATE	NC
SHEE	- NUMBER	SIGN DESIGNATION	SIGN MESSAGE/	SIZE	PANEL		CT		U U						THE STATE OF CALIFORNIA OR ITS OFF. OR AGENTS SHALL NOT BE RESPONSIBLE THE ACCURACY OR COMPLETENESS OF SU COPIES OF THIS PLAN SHEET.	TICERS
NUMBE	R SIGN-No,		DESCRIPTION	L×D	AREA	SHEETING		SHEETING		PREMIUM	UNFR	AMED	FRAM	IED	COPIES OF THIS PLAN SHEET.	CANALD
						COLOR	ORE	COLOR	TROREFL		0.063"	0.080"	0.063"	0.080"		
							H F F		TM		0.005	0.000		0.000		
				INCHES	SQF T	_	AS.		RE AS ⁻		SQFT	SQFT	SQFT	SQFT		
PD-1	S1-1	G84-3(313)(CA)	EXIT 313 WITH ARROW	48 × 60	20.00	GREEN	III	WHITE	III	Х			20.00		Note:	
	CO 1	C70(CA)	TO 65	70 × 40	22.75			WULTE					22.75		The Panel information shown f	or either
	S2-1	G78(CA)	ROSEVILLE MARYSVILLE	78 × 42	22.75	GREEN		WHITE					22.75		or overhead signs is predomin sign panel manufacturer.	
		G92(CA) G28-2(65)(CA)	FREEWAY ENTRANCE CALIFORNIA 65 (ROUTE MARKER)	48 x 30 24 x 25	10.00	GREEN GREEN	III	WHITE WHITE	III III	X	4.17	10.00			Sign panels that are contract	tor furni
	S2-3	G28-2(65)(CA) G48(CA)	SOUTH	24 x 25 21 x 9	1.31	GREEN	III	WHITE	III	× ×	1.31				not Department furnished), ar the panel information on Sign	e require Quantit'
		G44(CA)	DIRECTIONAL ARROW	21 x 15	2.19	GREEN	III	WHITE	III	×	2.19					uuunni
	S2-6	R5-10c	PEDESTRIANS PROHIBITED	24 x 12	2.00	WHITE	IX	BLACK		Х	2.00					
PD-2		G92(CA)	FREEWAY ENTRANCE	48 x 30	10.00	GREEN	III	WHITE	III	X	1 1 7	10.00				
	S2-7	G28-2(65)(CA) G48(CA)	CALIFORNIA 65 (ROUTE MARKER) SOUTH	24 x 25 21 x 9	4.17	GREEN GREEN	III	WHITE WHITE	III III	X X	4.17					
		G43(CA)	DIRECTIONAL ARROW	21 x 9 21 x 15	2.19	GREEN	III	WHITE	III	×	2.19					
	S2-8	R5-10a	PEDESTRIANS BICYCLES MOTOR-	30 × 36	7.50	WHITE	IX	BLACK		×	7.50					
	52 0		DRIVEN CYCLES PROHIBITED				_		ттт	~	1.50	10.00				
	-	G92(CA) G28-2(65)(CA)	FREEWAY ENTRANCE CALIFORNIA 65 (ROUTE MARKER)	48 × 30 24 × 25	10.00	GREEN GREEN	III	WHITE WHITE	III III	X X	4.17	10.00				
	S2-11	G48(CA)	SOUTH	24 × 25 21 × 9	1.31	GREEN	III	WHITE	III	X	1.31					
		G44(CA)	DIRECTIONAL ARROW	21 x 15	2.19	GREEN	III	WHITE	III	Х	2.19					
	S3-1	G86-5	DOWNTOWN LINCOLN	132 × 78	71.50	GREEN	IV	WHITE	IX	X				71.50		
PD-3	S3-2		NEXT EXIT RIGHT LANE MUST EXIT	66 × 48	22.00	WHITE	III	BLACK	***	×			22.00			
										~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					Sign Quantities sheets SQ-4, S show two ways the Roadside Si	an Panel
		R9-3a	NO PEDESTRIAN CROSSING	24 × 24	4.00	WHITE	III	RED BLACK	III	Х	4.00				table can be presented.	5 . 200
	S11-1	R9-3a	NO PEDESTRIAN CROSSING	24 × 24	4.00	WHITE	III	RED	III	V	4.00				 OPTION A (Examples "65 SQ-4 has each sign listed on a s 	
								BLACK		^ 					the sheet number and sign	
		R4-7	KEEP RIGHT	24 × 30	5.00	WHITE	III	BLACK RED	III	X	5.00				• OPTION B (Example "65 SQ-50	a") lists
		R9-3a	NO PEDESTRIAN CROSSING	24 × 24	4.00	WHITE	III	BLACK	111	Х	4.00				sign designation once (in a column added for the number	ı single r
	S11-2	R4-7	KEEP RIGHT	24 × 30	5.00	WHITE	III	BLACK		Х	5.00				needed for each sign design	nation iň
		R3-18	NO U-TURN/NO LEFT TURN	24 × 24	4.00	WHITE	III	RED BLACK	III	Х	4.00				project. A Comments columnidentify which plan sheets	the sign
		R6-1R	ONE WAY (RIGHT)	54 x 18	6.75	WHITE	III	BLACK		X		6.75			are located on within the p	project.
		G92(CA)	FREEWAY ENTRANCE	48 × 30	10.00	GREEN	III	WHITE	III	X		10.00				
PD-11	S11-3	G28-2(65)(CA)	CALIFORNIA 65 (ROUTE MARKER)	24 × 25	4.17	GREEN	III	WHITE	III	X	4.17					
	-	G48(CA) G43(CA)	SOUTH DIRECTIONAL ARROW	26 × 12 21 × 15	2.17	GREEN GREEN	III	WHITE WHITE	III III	X X	2.17					
			ONE WAY (LEFT)	54 x 18	6.75	WHITE	III	BLACK	111	× ×	L.13	6.75				
	S11-4	R6-1R	ONE WAY (RIGHT)	54 x 18	6.75	WHITE	III	BLACK		X		6.75				
	S11-5	R6-1L	ONE WAY (LEFT)	54 x 18	6.75	WHITE	III	BLACK		Х		6.75				
		R6-1R	ONE WAY (RIGHT)	54 x 18	6.75	WHITE	III	BLACK		X	2.00	6.75				
	S11-6 S11-7	R5-10c R61-20.1(CA)	PEDESTRIANS PROHIBITED	24 × 12 36 × 30	2.00	WHITE	IX	BLACK BLACK		X X	2.00					
	511-1		FREEWAY ENTRANCE	48 × 30	10.00	GREEN	III	WHITE	III	× ×	1.50	10.00				
	S11-8	G28-2(65)(CA)	CALIFORNIA 65 (ROUTE MARKER)	24 × 25	4.17	GREEN	III	WHITE	III	X	4.17					
	0-11-0	G48(CA)	SOUTH	21 × 9	1.31	GREEN	III	WHITE	III	X	1.31					
		G43(CA)	DIRECTIONAL ARROW	21 x 15	2.19	GREEN	III	WHITE	III	X	2.19					
			1	1					SUBT	OTAL	84.21	83.75	64.75	71.50		
		E OF MANY EXAMPLES OF									_					
THE VA	RIOUS TYPES	OF PROJECT PLAN SHEETS	ſ	STON	OLIANIT	ΙΤΙΕς ς	HEET	FYND		65 SQ-4'		PTI	ON ·	-	SIGN QUANT	ΓΙΤΙ

BORDER LAST REVISED 7/2/2010

USERNAME =>s111271 DGN FILE => od-65_SQ-004.dgn

RELATIVE BORDER SCALE IS IN INCHES

UNIT 0000

SUPERSEDES EXAMPLE

			ROADSIDE	SIGN	PANEL	UUANI	1116	3					
						BACKGRC	DUND	LEGENI	D	PROTECTIVE OVERLAY	FUI	RNISH SI	INGLI
SHEE T NUMBER	SIGN NUMBER	SIGN DESIGNATION	SIGN MESSAGE/	PANEL SIZE	PANEL		ECTIVE		ECTIVE			ALUMINU	
NUMBER	SIGN-No.		DESCRIPTION	L×D	AREA	SHEETING COLOR		SHEETING COLOR	OREFLE TYPE	PREMIUM	UNFR		
				INCHES	SQFT	-	RETROREF ASTM TYF		ETR STM		0.063" SQFT	0.080" SQFT	0.0 SQ
		G92(CA)	FREEWAY ENTRANCE	48 × 30	10.00	GREEN		WHITE		X	SUFT	10.00	- 50
		G28-2(65)(CA)	CALIFORNIA 65 (ROUTE MARKER)	24 x 25	4.17	GREEN	III	WHITE	III	X	4.17	10.00	+
	S11-9	G48(CA)	SOUTH	21 × 9	1.31	GREEN	III	WHITE	III	Х	1.31		
		G44(CA)	DIRECTIONAL ARROW	21 x 15	2.19	GREEN	III	WHITE	III	Х	2.19		<u> </u>
	S11-10	R5-10a	PEDESTRIANS BICYCLES MOTOR- DRIVEN CYCLES PROHIBITED	30 × 36	7.50	WHITE	I×	BLACK		Х	7.50		
	_	G28-2(65)(CA)	FREEWAY ENTRANCE CALIFORNIA 65 (ROUTE MARKER)	48 × 30 24 × 25	10.00	GREEN GREEN	III III	WHITE WHITE	III	X X	4.17	10.00	
	S11-11	G48(CA)	SOUTH	24 x 25 21 x 9	1.31	GREEN	III	WHITE	III	× X	1.31		
		G44(CA)	DIRECTIONAL ARROW	21 x 15	2.19	GREEN	III	WHITE	III	X	2.19		
	S11-12	R89-1(1)(CA)	1 CAR PER GREEN EACH LANE	36 × 16	4.00	WHITE	III	BLACK		Х	4.00		
	S11-13	R89-1(1)(CA)	1 CAR PER GREEN EACH LANE	36 × 16	4.00	WHITE	III	BLACK		Х	4.00		
	S11-14	W4-1R	MERGE (RIGHT)	48 × 48	16.00	YELLOW	IX	BLACK	ΙX	X		16.00	<u> </u>
PD-11	S11-16	R18B(R+)(CA)	RIGHT LANE FREEWAY ONLY KEEP RIGHT	36 x 36	9.00	WHITE WHITE	III III	BLACK		X	9.00		
	S11-19 -		OBJECT MARKER	24 × 30 18 × 18	5.00 2.25	YELLOW	III	BLACK BLACK		X X	5.00 2.25		
			DO NOT ENTER	36 × 36	9.00	RED	IX	WHITE	IX	X	9.00		+
	S11-21	R5-1a	WRONG WAY	36 × 24	6.00	RED	IX	WHITE	ΙX	X	6.00		1
	S11-22	R5-1	DO NOT ENTER	36 × 36	9.00	RED	IX	WHITE	ΙX	Х	9.00		
		R5-1a	WRONG WAY	36 × 24	6.00	RED	IX	WHITE	ΙX	Х	6.00		<u> </u>
	S11-23		BIKE LANE	24 x 24	4.00	WHITE WHITE	III III	BLACK BLACK			4.00		+
	S11-24 S11-25	R3-18	NO PED CROSSING USE CROSSWALK NO U-TURN/NO LEFT TURN	42 × 18 36 × 36	9.00	WHITE	III	RED	III	X	9.00		
	S11-26	R73-2(CA)	INTERSECTION LANE CONTROL	36 × 36	9.00	WHITE	III	BLACK BLACK		X	9.00		+
	S11-27		BIKE LANE	24 × 18	3.00	WHITE	III	BLACK		X	3.00		+
	S11-28	G7-1(CA)	FERRARI RANCH ROAD	48 × 42	14.00	GREEN	III	WHITE	ΙX	Х		14.00	1
	S11-29	R61-20.1(CA)	INTERSECTION LANE CONTROL	36 × 30	7.50	WHITE	III	BLACK		Х	7.50		
	S32-1	W9-1R	RIGHT LANE ENDS	48 × 48	16.00	YELLOW	III	BLACK	III	Х		16.00	
	S32-2 -	G48(CA)	SOUTH	21 × 9	1.31	GREEN	III	WHITE	III	Х	1.31		
		G28-2(65)(CA)	CALIFORNIA 65 (ROUTE MARKER)	24 × 25	4.17	GREEN	III	WHITE		X	4.17		
	S32-3 S32-4	G7-1(CA) R6-1L	WEST WISE ROAD ONE WAY (LEFT)	36 × 42 54 × 18	10.50 6.75	GREEN WHITE	III III	WHITE BLACK	ΙX	X X	10.50	6.75	+
	S32-5	G7-1(CA)	WEST WISE ROAD	36 × 42	10.50	GREEN	III	WHITE	IX	X	10.50	0.15	
	S32-6	G47(CA)	NORTH	21 × 9	1.31	GREEN	III	WHITE	III	X	1.31		1
		G28-2(65)(CA)	CALIFORNIA 65 (ROUTE MARKER)	24 × 25	4.17	GREEN	III	WHITE	III	Х	4.17		
	S32-7	R6-1L	ONE WAY (LEFT)	54 × 18	6.75	WHITE	III	BLACK		X		6.75	
PD-32	S32-8 S32-9		LANE ENDS (RIGHT) WEST WISE ROAD	48 × 48 132 × 60	16.00 55.00	GREEN	IX III	BLACK WHITE	IX	× ×		16.00	
10 32	S32-10	W3-3	SIGNAL AHEAD	48 × 48	16.00	YELLOW	IX	RED GREEN BLACK	IX	~~~~~		16.00	
	S32-11	W3-3	SIGNAL AHEAD	48 × 48	16.00	YELLOW	IX	RED, GREEN BLACK	IX			16.00	
	S32-12	R73-3(CA)	INTERSECTION LANE CONTROL	36 × 36	9.00	WHITE	III	BLACK		X	9.00		+
								BLACK					+
	S32-13	R73-7(CA)	LEFT TURN YIELD ON GREEN	36 × 45	11.25	WHITE	III	GREEN	III	Х	11.25		<u> </u>
	S32-14	R73-3(CA)	INTERSECTION LANE CONTROL	36 × 36	9.00	WHITE	III	BLACK		X	9.00		
	S32-15	R73-7(CA)	LEFT TURN YIELD ON GREEN	36 × 45	11.25	WHITE	III	BLACK GREEN	III	Х	11.25		<u> </u>
				1	1	I	I	SUBT	otal si	HEET SQ-4	84.21	83.75	64.
THIS EXA	MPLE IS ONE	OF MANY EXAMPLES OF								TOTAL	271.51	211.25	6
THE VARI	OUS TYPES (DF PROJECT PLAN SHEETS TRUCTION PROJECT,		SIGN	QUANTI	ITIES SH	HEET	. EXAMPI	LE "	65 SQ-5"	\neg)PTI	0

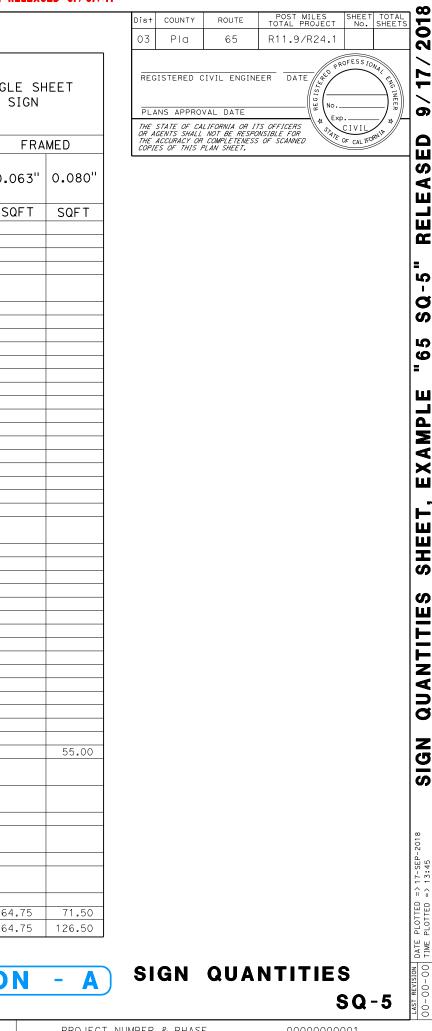
OPTION SIGN QUANTITIES SHEET, EXAMPLE "65 SQ-5"

BORDER LAST REVISED 7/2/2010

USERNAME =>s111271 DGN FILE => od-65_SQ-005.dgn RELATIVE BORDER SCALE IS IN INCHES

UNIT 0000

RELEASED	07/07/11
NELEAJED	VI/ VI/ II



SUPERSEDES EXAMPLE RELEASED 07/07/11

(This	colum	n j	lis	ts	the	e v	arious	р	lan	sheet
	that	each	S	ign	pa	nel	is	locate	ed	on.	

ROADSIDE SIGN PANEL QUANTITIES

			PANEL		ANELS	BACKGRO		LEGEN	ш	OVERLAY	FU	RNISH SI ALUMINU	INGLE SH JM SIGN	HEET	
REVISED	SIGN DESIGNATION	SIGN MESSAGE/ DESCRIPTION	SIZE L × D	PANEL AREA	OF P	SHEETING COLOR	EFLECTIVE YPE	SHEETING COLOR	EFLECTIV YPE	PREMIUM	UNFR	AMED	FR	AMED	СОММЕ
DATE REV				COLT	NUMBER	COLON	RETROREFLE ASTM TYPE	COLON	RETROREF STM TYF		0.063"	0.080"	0.063"		-
			INCHES	SQFT		00551			L A		SQFT	SQFT	SQFT	SQFT	DD 11
	G7-1(CA)	FERRARI RANCH ROAD	48 x 42	14.00	1	GREEN	III	WHITE	IX	X	21.00	14.00			PD-11 PD-32
	G7-1(CA) G7-1(CA)	WEST WISE ROAD WEST WISE ROAD	36 × 42 132 × 60	10.50	1	GREEN	III III	WHITE WHITE	IX IX	X	21.00			55.00	PD-32 PD-32
	G28-2(65)(CA)	CALIFORNIA 65 (ROUTE MARKER)	24 × 25	4.17	9	GREEN	III	WHITE	III	X	37.53			55.00	PD-2, -
	G43(CA)	DIRECTIONAL ARROW	21 x 15	2.19	3	GREEN	III	WHITE	III	X	6.57				PD-2, -1
	G44(CA)	DIRECTIONAL ARROW	21 x 15	2.19	4	GREEN	III	WHITE	III	X	8.76				PD-2, -
	G47(CA)	NORTH	21 × 9	1.31	1	GREEN	III	WHITE	III	X	1.31				PD-32
	G48(CA)	SOUTH	21 × 9	1.31	7	GREEN	III	WHITE	III	X	9.17				PD-2, -1
	G48(CA)	SOUTH	26 × 12	2.17	1	GREEN	III	WHITE	III	X	2.17				PD-11
	G78(CA)	TO 65 ROSEVILLE MARYSVILLE	78 × 42	22.75	1	GREEN		WHITE					22.75		PD-2
	G84-3(313)(CA)	EXIT 313 WITH ARROW	48 × 60	20.00	1	GREEN	III	WHITE	III	X			20.00		PD-1
CHECKED BY	G86-5(CA)	DOWNTOWN LINCOLN NEXT EXIT	132 × 78	71.50	1	GREEN	IV	WHITE	IX	X				71.50	PD-3
CK	G92(CA)	FREEWAY ENTRANCE	48 × 30	10.00	7	GREEN	III	WHITE	III	X		70.00			PD-2, -
CHECKED	R18A(R+)(CA)	RIGHT LANE MUST EXIT	66 x 48	22.00	1	WHITE	III	BLACK		Х			22.00		PD-3
	R18B(R+)(CA)	RIGHT LANE FREEWAY ONLY	36 × 36	9,00	1	WHITE	III	BLACK		Х	9.00				PD-11
	R49(R+)(CA)	NO PED CROSSING USE CROSSWALK	42 × 18	5.25	1	WHITE	III	BLACK			5.25				PD-11
	R61-20.1(CA)	INTERSECTION LANE CONTROL	36 × 30	7.50	2	WHITE	III	BLACK		Х	15.00				PD-11
	R73-2(CA)	INTERSECTION LANE CONTROL	36 × 36	9.00	1	WHITE	III	BLACK		X	9.00				PD-11
	R73-3(CA)	INTERSECTION LANE CONTROL	36 × 36	9.00	2	WHITE	III	BLACK		X	18.00				PD-32
	R73-7(CA)	LEFT TURN YIELD ON GREEN BIKE LANE	36 × 45	11.25	2	WHITE WHITE	III	BLACK GREEN BLACK	III	X	22.50 4.00				PD-32 PD-11
	R81(CA)	BIKE LANE	24 × 24 24 × 18	3.00	1	WHITE	III	BLACK			3.00				PD-11
	R89-1(1)(CA)	1 CAR PER GREEN EACH LANE	36×16	4.00	2	WHITE	III	BLACK		X	8.00				PD-11
	R3-18	NO U-TURN/NO LEFT TURN	24 × 24	4.00	1	WHITE	III	RED BLACK	III	×	4.00				PD-11
	R3-18	NO U-TURN/NO LEFT TURN	36 × 36	9.00	1	WHITE	III	RED BLACK	III	×	9.00				PD-11
		KEEP RIGHT	24 × 30	5.00	3	WHITE	III	BLACK		Х	15.00				PD-11
	R5-1	DO NOT ENTER	36 × 36	9.00	2	RED	IX	WHITE	IX	X	18.00				PD-11
	R5-1a R5-10a	WRONG WAY PEDESTRIANS BICYCLES MOTOR- DRIVEN CYCLES PROHIBITED	36 × 24 30 × 36	6.00 7.50	2	RED WHITE	IX IX	WHITE BLACK	IX	X X	12.00				PD-11 PD-2, -
	R5-10c	PEDESTRIANS PROHIBITED	24 × 12	2.00	2	WHITE	IX	BLACK		X	4.00				PD-2, -
	R6-1L	ONE WAY (LEFT)	54 x 12	6.75	4	WHITE	III	BLACK		X	1.00	27.00			PD-11,
	R6-1R	ONE WAY (RIGHT)	54×18	6.75	3	WHITE	III	BLACK		X		20.25	1		PD-11
	R9-3a	NO PEDESTRIAN CROSSING	24 × 24	4.00	3	WHITE	III	RED BLACK	III	× ×	12.00				PD-11
	W3-3	SIGNAL AHEAD	48 × 48	16.00	2	YELLOW	IX	RED, GREEN BLACK	IX			32.00			PD-32
	W4-1R	MERGE (RIGHT)	48 × 48	16.00	1	YELLOW	ΙX	BLACK	ΙX	Х		16.00			PD-11
	W4-2R	LANE ENDS (RIGHT)	48 × 48	16.00	1	YELLOW	IX	BLACK	IX	X		16.00			PD-32
	W9-1R	RIGHT LANE ENDS	48 × 48	16.00	1	YELLOW	III	BLACK	III	X		16.00			PD-32
	OM1-3	OBJECT MARKER	18 × 18	2.25	1	YELLOW	III	BLACK		X	2.25				PD-11
ltans									TO	TAL	271.51	211.25	64.75	126.50	
170	THIS EXAMPLE IS ONE THE VARIOUS TYPES OF				_										
وللانطال		F PROJECT PLAN SHEETS RUCTION PROJECT,			S	IGN QUA	NTI	TIES SHE	EET,	EXAMPLE	"65	SQ-5a')PTI	0

BORDER LAST REVISED 7/2/2010

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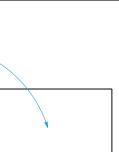
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RELATIVE BORDER SCALE IS IN INCHES

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UNIT 0000



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Dis†	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS	018
03	Pla	65	R11.9/R24.1			20
PLA THE OR A THE	ANS APPRO STATE OF CA. GENTS SHALL	LIFORNIA OR II NOT BE RESPO COMPLETENESS		CIVIL DF CAL IFO	ENG INEER *	ED 9/17/
						EAS
						R

SQ-5a"

: 65

SHEET, EXAMPLE

SIGN QUANTITIES

PLOTTED => 17-SEP-2018 PLOTTED => 13:43

DATE TIME

COMMENTS

PD-11
PD-32
PD-32
PD-2, -11, -32
PD-2, -11
PD-2, -11
PD-32
PD-2, -11, -32
PD-11
PD-2
PD-1
PD-3
PD-2, -11
PD-3 PD-11
PD-11
PD-11
PD-32
PD-32
PD-11
PD-2, -11
DD 11 70
PD-11, -32 PD-11
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B

SQ-5a

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-	REVISED BY DATE REVISED		This shows	column identifies w the location for e	hich plan sheet each sign.							This cont can	column ident ain the detai be determine
								OVERHE	AD SIGN QU	ANTITIE	6		
		SHEET		FURNISH SIGN STRUCTURE (TRUSS)	INSTALL SIGN STRUCTURE (TRUSS)	54" CIDH CONCRETE PILE (SIGN FOUNDATION)	60" CIDH CONCRETE PILE (SIGN FOUNDATION)		INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	REMOVE SIGN STRUCTURE	MODIFY SIGN STRUCTURE (SAFETY CABLE RETROFIT)	INSTALL SIGN OVERLAY	SIGN P TYP
ł				LB	LB	LF	LF	LB	LB	EA	EA	SQF T	1
	BY B	PD-1	DS-117	377							1		LAMIN
	ED ED	PD-2	DS-118	408							1	17.5	
	CALCULATED- DESIGNED BY CHECKED BY	PD-3	DS-119 (Exist)							1			
	CH DCA	PD-11	DS-236					2,359	2,359				
		PD-11	DS-241	14,176	14,176	19							
		PD-3	DS-244	21,731	21,731		25						
		PD-3	DS-245	14,859	14,859		22						
	К	PD-1	DS-248	9,989	9,989	18							
	SUPERVISOR	PD-2	DS-249					3,051	3,051				
			TOTAL	61,540	60,755	37	47	5,410	5,410	1	2	17.5	
	FUNCTIONAL		TUTAL				יד <u> </u>		5,10	<u> </u>	2	11.5	I

THIS EXAMPLE IS ONE OF MANY EXAMPLES OF THE VARIOUS TYPES OF PROJECT PLAN SHEETS FROM THE SAME CONSTRUCTION PROJECT, "ROUTE 65 BYPASS PROJECT."

SIGN QUANTITIES SHEET, EXAMPLE "65 SQ-6"

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BORDER LAST REVISED 7/2/2010

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DEPARTMENT OF TRANSPORTATION

CALIFORNIA

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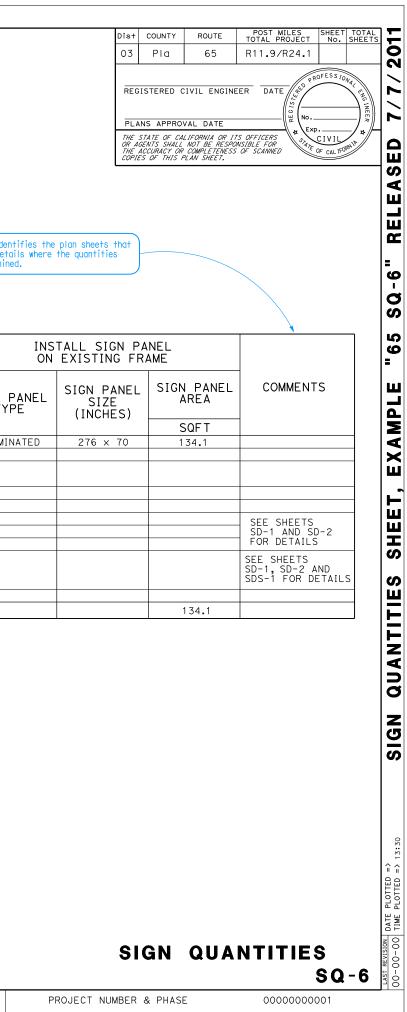
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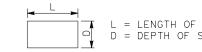
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UNIT 0000



NOTE: 1. FEDERAL SIGN DESIGNATIONS ARE SHOWN UNLESS DESIGNATED

BY (CA) SUFFIX WHICH INDICATES A CALIFORNIA SIGN DESIGNATION.



OVERHEAD SIGN PANEL QUANTITIES

						BACKGROU	JND	LEGEN)	PROTECTIVE OVERLAY		
SHEET NUMBER	SIGN NUMBER	SIGN DESIGNATION	SIGN MESSAGE/DESCRIPTION	PANEL SIZE L × D	PANEL AREA	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	TROREFLECTIVE ASTM TYPE	PREMIUM	FURNISH LAMINATED SIGN PANEL (1"-TYPE A)	REMARKS
				INCHES	SQFT		AS		Н И И И		SQFT	
PD-1	DS-117	G85(CA)	EXIT 313 Twelve Bridges Drive,60° ARROW	276 × 70	134.16	GREEN	III	WHITE	IX	х	134.16	
PD-2	DS-118	W61D(CA)	FWY, 270° ARROW, ONLY	126 × 20	17.50	YELLOW	III	BLACK		x	17.50	INSTALL OVERLAY ON SIGN G24(CA)
PD-11	DS-236	G78-6.1(CA)	LEFT ARROW, ⑥, NORTH Marysville	132 × 70	64.16	GREEN	III	WHITE	IX	Х	64.16	
PD-11	DS-241	G83-5(CA)	EXIT 313 Twelve Bridges Dr 1 MILE	288 × 90	180.00	GREEN	III	WHITE	IX	Х	180.00	FSBT
	03 241	G5(CA)	Sheridan 10 Wheatland 14 Marysville 26	288 × 90	180.00	GREEN	III	WHITE	IX	Х	180.00	FNBT
PD-3	DS-244	G83-5(CA)	EXIT 314 Lincoln Blvd 270° ARROW, EXIT, 270° ARROW, ONLY	264 × 100	183.33	GREEN	III	WHITE	IX	Х	183.33	
PD-3	DS-245	G85-11(CA)	EXIT 313 Twelve Bridges Dr 60° ARROW, EXIT, ONLY	264 × 100	183.33	GREEN	III	WHITE	IX	Х	183.33	
PD-1	DS-248	G83-5(CA)	EXIT 314 Lincoln Blvd ¾ MILE	192 × 90	120.00	GREEN	III	WHITE	IX	Х	120.00	
PD-2	DS-249	G23(CA)	Lincoln Blvd $\frac{1}{2}$ Ferrari Ranch Rd $\frac{1}{4}$ Nelson Lane $\frac{3}{2}$	288 × 90	180.00	GREEN	III	WHITE	IX	Х	180.00	
			TOTAL								1242.48	

SIGN QUANTITIES SHEET, EXAMPLE "65 SQ-7"

BORDER LAST REVISED 7/2/2010

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DATE REVISED

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REVISED

CALCULATED-DESIGNED BY CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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RELATIVE BORDER SCALE 0 1 IS IN INCHES LILI

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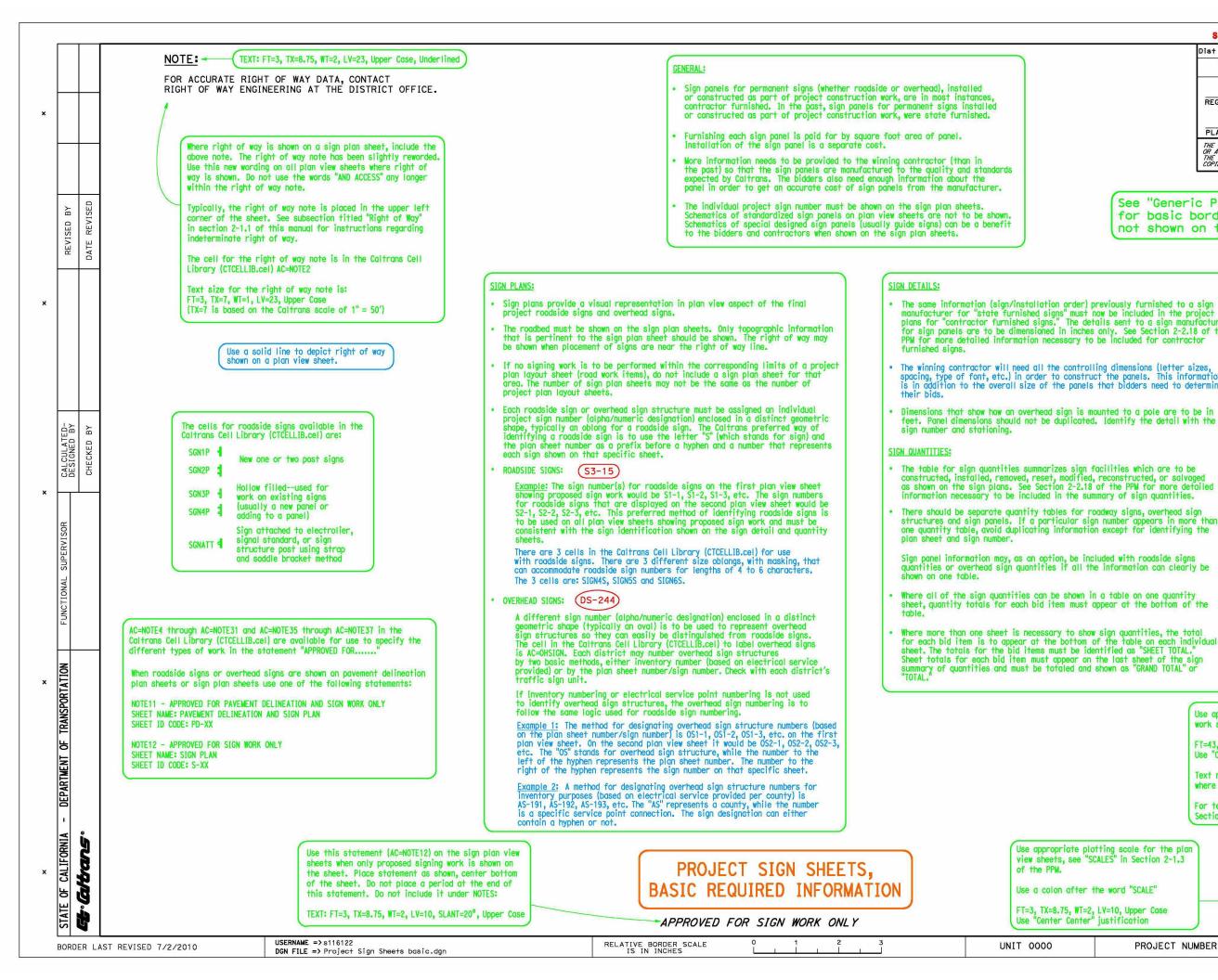
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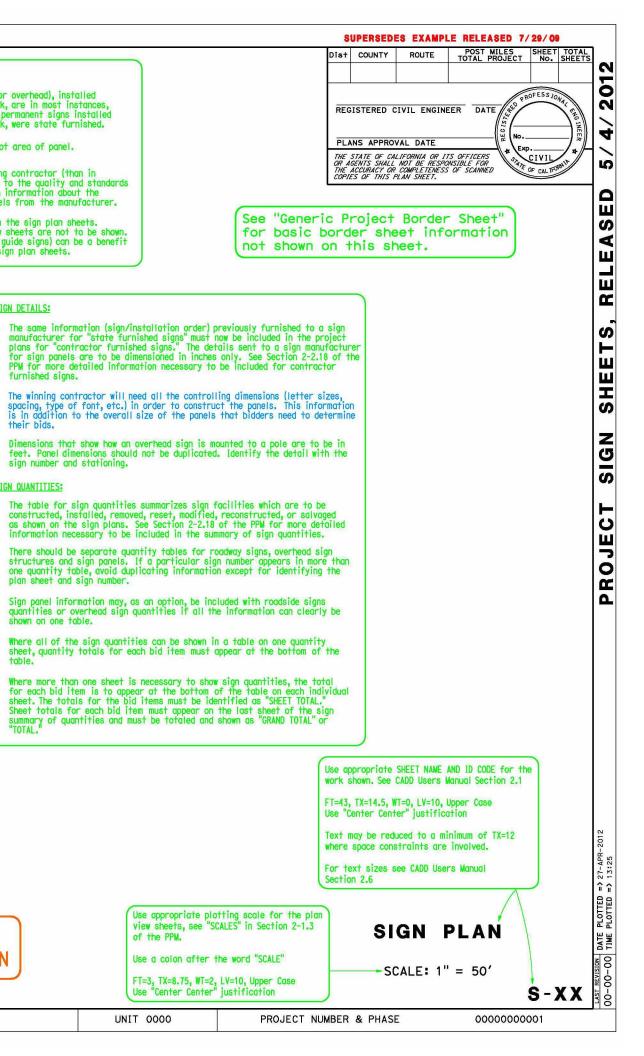
	Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEET
	03	Pla	65	R11.9/R24.1	
SIGN SIGN		ISTERED C	VAL DATE	EER DATE	ROFESS IONAL CINC INEER
	OR A THE	GENTS SHALL	LIFORNIA OR II NOT BE RESPO COMPLETENESS PLAN SHEET.		OF CAL IFORNIA

DATE PLOTTED => 17-SEP-2018 TIME PLOTTED => 13:39

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	BY	ISED		number designa	where the item appears as wel tion and station to make the le ear for the bidder.	I as the I ocations	line		
	REVISED	DATE REVIS	↓ 		PAVEMENT ST	RUCT	F		ш
×			SHEET No.	LINE DESIGNATION	STATION	DIRECTION	RUBBERIZED HOT MIX ASPHAI (GAP GRADED)	HOT MIX ASPHAL (TYPE A)	CLASS 2 AGGREGATE BAS
	CALCULATED- DESIGNED BY	KED BY	L-1 L-1 TO L-2 L-1 TO L-3 L-2 TO L-3 L-3 TO L-4 L-3 TO L-4	"D13" "D13" "D13" "D13" "D13" "D13" "D13"	643+96.13 TO 645+66.73 645+66.73 TO 661+66.76 645+66.73 TO 667+92.65 661+66.76 TO 669+28.93 667+92.65 TO 676+40.64 669+28.93 TO 677+71.38	SB NB SB NB SB NB	TON 54.2 1,199.4 1,449.0 392.2 565.2 603.3	TON 121.0 3,549.7 4,315.1 1,147.9 1,650.0 1,772.4	CY 175 3,725 4,539 1,327 1,815 1,908
×		СНЕСКЕD	L-4 TO L-5 L-4 TO L-5 L-5 TO L-8 L-5 TO L-7 L-8 TO L-9 L-7 TO L-9	"D13" "D13" "D13" "D13" "D13" "D13" "D13" "D13"	682+06.49 T0 686+45.20 681+14.62 T0 686+45.20 689+29.84 T0 690+10.45 689+29.84 T0 705+00.31 690+10.45 T0 705+00.31 707+51.62 T0 720+30.62 707+51.62 T0 720+30.62	NB SB NB SB NB SB	324.7 392.7 63.1 953.1 1,277.8 717.3 755.3	959.9 1,160.9 187.7 2,199.0 2,875.0 1,630.9 1,699.5	1,090 1,360 2,432 3,209 1,801 1,897
	FUNCTIONAL SUPERVISOR		L-9 L-9 TO L-10 L-9 TO L-10 L-10 TO L-14 L-10 TO L-13 L-14 TO L-18 L-13 TO L-18 L-21 TO L-25	"D13" "D13" "D13" "D13" "D13" "D13" "D13" "D13" "D13" "D13"	722+27.47 TO 723+42.30 722+27.47 TO 723+42.30 723+42.30 TO 731+46.10 723+42.30 TO 731+46.10 731+46.10 TO 764+48.56 731+46.10 TO 764.48.56 769+94.22 TO 807+08.42 769+94.22 TO 807+08.42	NB SB NB SB NB SB NB	84.5 71.7 455.0 1,869.4 2,102.4 2,102.4 2,0102.4	190.3 161.5 1,023.7 1,023.7 4,206.1 4,206.1 4,730.6 4,730.6	212 180 1,507 1,507 6,195 6,195 6,967 6,967
×	ANSPORTATION		L-21 TO L-25 L-25 L-26 L-26 TO L-29 L-28 TO L-35 L-40 TO L-55 L-59	"D13" "D13" "D13" "D13" "D13" "D13" "D13"	849+49.71 TO 882+54.32 881+37.86 TO 883+03.54 885+09.25 TO 885+47.86 885+47.86 TO 933+47.42 923+26.95 TO 1001+89.99 1049+63.30 TO 1199+02.30 1247+19.11 TO 1249+34.01	NB/SB NB/SB NB/SB NB/SB NB/SB NB/SB	2,014.5 2,925.8 4,122.8 9,106.9 131.0	4,532.7 6,583.2 9,276.3 20,490.7 294.7	7,016 149 127 10,192 13,451 29,712 427
	DEPARTMENT OF TRANSPORTATION			l	SUBTOTAL	<u> </u>	36,058.1	84,719.2	116,293
×	STATE OF CALIFORNIA -	وللأساك	THIS EXAMPLE IS ON THE VARIOUS TYPES FROM THE SAME CONS "ROUTE 65 BYPASS P	OF PROJECT TRUCTION PF	PLAN SHEETS				SUM

SUMMARY	OF	QUANTITIES	SHEET,	E)

SUBBASE

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TACK

TON

0.33

7.48

9.04

2.44

3.52

3.76

2.03

2.45

0.40

5.76

7.72

4.33

4.56

0.51

0.43

2.83

2.83

11.66

11.66

13.12

13.12

12.57

18.25

25.72

56.80

0.82

CLASS 2 AGGREGAT

CY

216.1

4,634.8

5,656.0

1,612.4

2,243.3

2,370.1

1,357.0

1,693.4

3,227.0

4,279.6

2,402.3

2,529.8

283.2

240.3

1,843.8

1,843.8

7,575.5

7,575.5

8,520.0

8,520.0

7,525.2

10,929.4

15,400.6

36,520.0

525.3

245.5

175.3

3,725.0

4,539.8

1,327.8

1,815.8

1,908.6

1,090.6

1,360.9

2,432.8

3,209.7

1,801.7

1,897.3

212.4

180.2

1,507.8

1,507.8

6,195.0

6,195.0

6,967.5

6,967.5

7,016.4

149.8

127.7

10,192.9

13,451.2

29,712.7

36,058.1 84,719.2 116,293.3 139,769.9 224.14

427.4

196.7

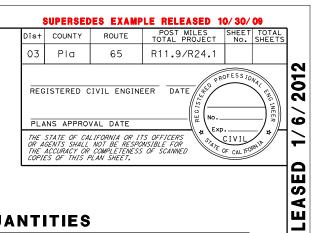
SHEET No.	LINE DESIGNATION	STATION	DIRECTION	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	НОТ MIX ASPHALT (ТҮРЕ А)	CLASS 2 AGGREGATE BASE	CLASS 2 AGGREGATE SUBBASE	TACK COAT
			I	TON	TON	CY	CY	TON
L-18	"NB9"	808+69.21 TO 814+00.67	NB	376.2	846.3	1,192.4	1,479.7	2.34
L-18 TO L-19	"SB9"	808+47.59 TO 819+10.42	SB	755.1	1,699.0	2,392.1	2,969.7	4.70
L-18 TO L-19	"NB9"	814+00.67 TO 819+09.73	NB	554.1	1,246.8	1,645.3	2,088.2	3.46
L-19	"NB9/SB9"	819+10.42 TO 822+44.70	NB/SB	640.9	1,442.1	1,663.6	2,218.1	4.00
L-19 TO L-20	"NB9"	822+65.80 TO 833+15.76	NB	594.3	1,337.2	1,969.6	2,408.5	3.70
L-19 TO L-20	"SB9"	822+44.70 TO 830+11.50	SB	750.9	1,689.6	2,260.9	2,855.6	4.69
L-20	"NB9"	833+15.76 TO 838+30.78	NB	267.8	602.7	904.7	1,099.5	1.68
L-20 L-20	"SB9"	830+11.50 TO 836+69.73	SB	332.0	747.1	1,129.5	1,369.3	2.07
L-20 L-20 TO L-21	589 "NB9"	830+11.50 10 836+69.75 838+30.78 TO 841+04.50	NB	101.9	229.4	375.9	444.5	0.64
L-20 TO L-21 L-20 TO L-21	NB9 "SB9"	838+50.78 TO 841+04.50 836+69.73 TO 846+45.41	SB	293.5	229.4 660.3		1,342.4	
	SB9 "NB9"					1,158.5		1.83
L-21 L-21	NB9 "SB9"	841+04.50 TO 849+79.27	NB	279.3	628.3	,	1,203.7	2.59 0.57
L-21	209	846+45.41 TO 849+59.26	SB	91.1	205.9	300.2	367.8	0.57
		SUBTOTAL		5,037.1	11,334.7	16,005.5	19,847.0	32.27
		1001:00 00 TO 1007:01 10	ND	100 7	704 0	540.5	676.7	1.00
L-35	"NB10"	1001+89.99 TO 1007+21.48	NB	169.7	381.8	548.5	676.3	1.06
L-35	"SB10"	1001+89.99 TO 1007+21.48	SB	154.2	347.1	508.5	622.9	0.96
L-35 TO L-36	"NB10"	1007+21.48 TO 1012+13.97	NB	157.2	353.8	608.4	709.1	0.98
L-35 TO L-36	"SB10"	1007+21.48 TO 1012+68.89	SB	210.4	473.4	768.7	911.5	1.31
L-36	"NB10"	1012+13.97 TO 1012+68.89	NB	23.1	52.1	82.6	98.6	0.14
L-36	"SB10"	1012+68.89 TO 1013+94.41	SB	144.8	325.8	482.8	589.2	0.90
L-36 TO L-37	"NB10"	1012+69.15 TO 1019+52.32	NB	411.0	924.8	1,344.6	1,651.2	2.56
L-36 TO L-37	"SB10"	1015+31.71 TO 1025+76.66	SB	606.6	1,365.0	1,999.5	2,449.5	3.78
L-37 TO L-38	"NB10"	1019+52.32 TO 1026+89.98	NB	686.1	1,543.7	2,080.7	2,621.4	4.27
L-37 TO L-38	"SB10"	1025+76.66 TO 1026+89.98	SB	52.6	118.4	182.6	220.1	0.33
L-38	"NB10"	1026+89.98 TO 1028+21.21	NB	87.6	197.1	280.7	347.1	0.55
L-38	"SB10"	1026+89.98 TO 1028+21.21	SB	83.8	188.5	270.9	334.0	0.52
L-38 TO L-39	"NB10"	1028+21.21 TO 1037+33.87	NB	556.3	1,251.8	1,815.2	2,231.1	3.47
L-38	"SB10"	1028+21.21 TO 1034+18.78	SB	555.1	1,248.9	1,683.8	2,121.2	3.46
L-38 TO L-39	"SB10"	1034+18.78 TO 1035+37.15	SB	85.4	192.1	269.8	335.1	0.52
L-39 TO L-40	"SB10"	1035+37.15 TO 1049+65.56	SB	556.5	1,252.2	1,915.7	2,404.4	3.47
L-39 TO L-40	"NB10"	1037+33.87 TO 1049+63.30	NB	499.64	1,124.21	1,722.07	2,140.88	3.12
		SUBTOTAL		5,040.0	11,340.7	16,565.1	20,463.6	31.40

USERNAME =>s116122 DGN FILE => pa-65 Q-001.dgn

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RELATIVE BORDER SCALE
IS IN INCHES
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UNIT 0000



PAVEMENT STRUCTURE QUANTITIES

PROJECT NUMBER & PHASE

×	REVISED BY		DATE REVISED
×	FUNCTIONAL SUPERVISOR CALCULATED-	DESIGNED BY	CHECKED BY
×	- DEPARTMENT OF TRANSPORTATION F		
×	STATE OF CALIFORNIA	:	let altrans .

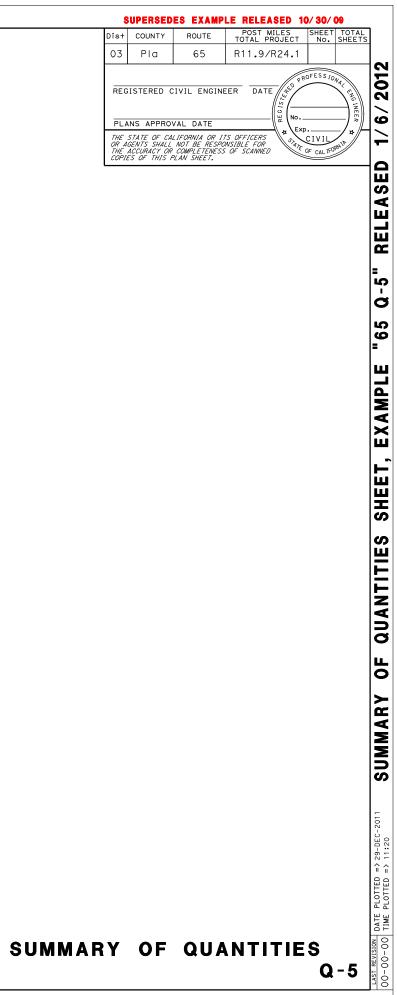
PAVEMENT STRUCTURE QUANTITIES SUMMARY

LOCATION	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	HOT MIX ASPHALT (TYPE A)	CLASS 2 AGGREGATE BASE	CLASS 2 AGGREGATE SUBBASE	TACK COAT	SLURRY SEAL	COLD PLANE ASPHALT CONCRETE PAVEMENT
	TON	TON	CY	CY	TON	TON	SQYD
"D13"	36,058.1	84,719.2	116,293.3	139,769.9	224.14		
"NB9/SB9"	5,037.1	11,334.7	16,005.5	19,847.0	32.27		
"NB10/SB10"	5,040.0	11,340.7	16,565.1	20,463.6	31.40		
"NB11/SB11"	5,399.7	12,160.8	17,186.6	21,305.5	30.60		
"D16"	916.5	3,609.0	8,359.3	9,747.0	9.08		
"IND1"		11,782.4	22,069.7		28.43	105.0	
"FR"		3,054.7	4,126.7		47.07	125.6	
"NEL1"		6,775.5	12,435.3		13.93		
"NIC1"		3,307.7	5,723.7		4.67		
"NOF 1"		1,007.3	1,707.5		1.63		
"NOF 2"		163.6	277.3		0.26		
"WIS1"		4,311.0	7,296.7		6.09		
"WISF1"		971.1	1,633.0		2.20		
"DOWF1"		5,224.7	8,856.3		8.44 9.52		
"WB11/EB11"	1 770 1	8,395.6 2,297.7	15,357.8 3,710.1	4 415 0	3.90		
"IN4" "IN3"	1,339.1 635.0	1,097.7	1,884.4	4,415.9 2,163.2	1.69		
"F1"	1,087.5	2,186.6	2,656.5	3,642.3	5.96		
"F 2"	784.0	1,579.7	1,930.8	2,625.7	4.29		
<u> </u>	104.0	1,575.7	2,470.0	3,458.1	4.25		
"F 5"	685.4	1,382.2	1,693.8	2,295.6	3.75		
"F6"	537.3	1,095.1	1,382.9	1,799.5	2.94		
"ROD1"	557.5	215.7	394.6	1,133.5	0.49		
"DR11"		23.2	60.6		0.45		
"DRI2"		94.4	266.8		0.15		
"MOR1"		1,269.5	2,510.5		2.78		
"DOW1"		324.8	1,284.7		0.74		
"CULR1"		286.1	485.0		0.46		
"EX65N2"		799.3	1,676.5		1.64		
INDUSTRIAL PARK AND RIDE		1,053.7	3,159.6				
RETENTION BASIN		330.1	646.1				
HMA (TEXTURED PAVING)		413.6	695.3				
MINOR CONCRETE (SIDEWALK)			595.1				
MINOR CONCRETE (STAMPED CONCRETE)			120.0				
HMA DIKE		68.8					
Misc DRAINAGE QUANTITIES		23.8	146.0				
STAGE CONSTRUCTION QUANTITIES	493.0	9,009.6	15,249.2			125.7	16,898
TOTAL	58,012.7	191,709.6	296,912.3	231,533.3	431.49	251.3	16,898

THIS EXAMPLE IS ONE OF MANY EXAMPLES OF THE VARIOUS TYPES OF PROJECT PLAN SHEETS FROM THE SAME CONSTRUCTION PROJECT, "ROUTE 65 BYPASS PROJECT."

SUMMARY OF QUANTITIES SHEET, EXAMPLE "65 Q-5")

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SUPERSEDES EXAMPLE RELEASED 01/06/12

The bid item is Imported Borrow not Embankment (thus the need for the (N) not a separate bid item symbol).

EARTHWORK QUANTITIES SUMMARY

			(N)	
LOCATION	STATION	ROADWAY EXCAVATION	EMBANKMENT	IMPORTED BORROW
		CY	CY	CY
"D13"	643+96.95 TO 686+74.74	60,533	373,539	
"D13"	690+10.44 TO 705+29.85		183,533	
"D13"	707+22.11 TO 720+60.15		106,273	
"D13"	721+97.94 TO 723+42.30	71 500	14,900	
"D13" "NB9"	723+42.30 TO 808+39.65	71,568	371,316	
"D13"	808+69.22 TO 849+79.26 849+49.70 TO 1001+89.99	101,524 92,053	16,807 430,833	
"NB10"	1001+89.99 TO 1049+63.30	16,902	279,027	
"D13"	1049+63.30 TO 1199+02.29	299,319	444,076	
"NB11"	1199+02.29 TO 1247+19.10	140,957	153,542	
"D13"	1247+19.10 TO 1249+34.01	3	7,893	
"D16"	1249+34.01 TO 1275+65.23	6,338	68,270	
"IND1"	32+64.43 TO 76+27.93	17,750	30,312	
"IN4"	661+66.77 TO 683+08.63	25,516	60,682	
"IN3"	661+70.30 TO 674+28.73	15,005	32,559	
"ROD1"	70+13.60 TO 71+33.25	171	51	
"FR"	62+67.02 TO 88+91.05	2,926		
"F4"	694+76.97 TO 706+44.64	10,880	58,496	
"F1"	706+44.64 TO 715+70.88	4,696	24,900	
"F3" "F2"	693+99.23 TO 696+92.00	10,046	58,493	
"F2"	706+19.64 TO 708+96.84 707+19.55 TO 715+13.76	3,074 6,338	18,992	
"NEL1"	39+48.81 TO 61+95.29	32,920	2,740	
"NIC1"	31+49.60 TO 63+05.73	4,411	192,595	
"WIS1"	30+98.57 TO 53+98.54	1,655	21,063	
"WISF1"	32+80.83 TO 54+97.18	4,442	3,571	
"NOF 1 "	156+30.04 TO 174+06.08	232	47,113	
"NOF 2"	170+60.32 TO 174+01.48	67	546	
"NYS1"	33+09.07 TO 43+84.79	12,868	91	
"DOWF1"	1165+16.86 TO 1229+09.36	146,978	48,005	
"EB11"	39+21.82 TO 84+05.08	40,684	88,429	
	1219+91.10 TO 1226+70.23	1,483	232	
INDUSTRIAL PARK AND RIDE RETENTION BASIN	40+02.61 TO 45+60.35	441	20,115	
RETENTION BASIN RETENTION BASIN (BERM CONSTRUCTION)	BEGIN RETENTION BASIN TO END RETENTION BASINBEGIN RETENTION BASIN TO END RETENTION BASIN	1,390,240	70,106	
	BEGIN RETENTION BASIN TO END RETENTION BASIN		12,607	
RETENTION BASIN (RETWAT CONSTRUCTION)	BEGIN RETENTION BASIN TO END RETENTION BASIN		99,999	<u> </u>
"DRI1"	10+08.24 TO 10+19.70	*	*	
"DRI2"	20+00.00 TO 20+40.03	129	258	
"MOR1"	233+13.46 TO 234+00.00	65	65	
"DOW1"	20+69.58 TO 20+73.63	3,038	13	
"CULR1"	10+00.00 TO 10+68.81	569	190	
"SW5"	9+93.66 TO 19+75.93		1,247	
FERRARI RANCH INTERCHANGE GRADING	CONTOUR GRADING BETWEEN THE MAINLINE AND RAMPS	104,341		
STAGE CONS	STRUCTION QUANTITIES	8,374	27,209	
	SUBTOTAL	2,638,536	3,370,749	
	SUBSIDENCE OF EMBANKMENTS	2,000,000		
	SUBSIDENCE OF EMBANKMENTS STMENT FOR ROADWAY EXCAVATION		18,180 396,309	
GR	AND TOTAL	2,638,536	3,785,238	1,146,702
(N) - NOT A SEPARATE BID ITEM		,,	,,200	, ., ., .
F MANY EXAMPLES OF	ARTHWORK.			
F PROJECT PLAN SHEETS RUCTION PROJECT,	SUMMARY OF QUANTITIES SHE	FT. FXAM	PLF "65 0	-6"

DATE REVISED REVISED BY CALCULATED-DESIGNED BY СНЕСКЕД ВҮ DEPARTMENT OF TRANSPORTATION OF CALIFORNIA ·altans STATF Ľ

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BORDER LAST REVISED 7/2/2010

RELATIVE BORDER SCALE IS IN INCHES 0

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UNIT 0000



Die	+ COUNT	Y ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS			
0	3 Pla	65	R11.9/R24.1					
REGISTERED CIVIL ENGINEER								
THE STATE OF CALIFORNIA OF ITS OFFICERS OF AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.								
						C		



-REVISION DATE PLOTTED => 10-SEP -00-00 TIME PLOTTED => 17:56

LAST 00-

Quantity of Imported Borrow is the difference between the volume for Embankment and Roadway Excavation. The bid item Imported Borrow is not needed if Roadway Excavation exceeds the Embankment volume.

SUMMARY OF QUANTITIES Q-6

PROJECT NUMBER & PHASE

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PLACE HOT MIX ASPHALT DIKE

CURB	R

LOCATION	STATION				
LUCATION	STATION	түре с	TYPE E	ΤΥΡΕ F	
		ЃГ	Γ	T)	
		LF	LF	LF	
ROUTE 65 "D13" - R+	677+00.48 TO 677+25.26	24.9			Γ
ROUTE 65 "D13" - R+	677+25.26 TO 677+49.99			24.9	
ROUTE 65 "D13" - L†	707+36.14 TO "F6" 716+09+36	54.1	792.0	24.9	
ROUTE 65 "D13" - R+	704+61.80 TO 705+14.68	38.1		24.9	
ROUTE 65 "D13" - R+	719+90.04 TO 720+42.86	38.1		24.9	
ROUTE 65 "D13" - L†	729+62.28 TO 729+87.21			24.9	
ROUTE 65 "D13" - L+	729+87.21 TO 730+24.71	37.4			
ROUTE 65 "D13" - R†	763+67.85 TO 763+92.62	24.9			
ROUTE 65 "D13" - R+	763+92.62 TO 764+17.42			24.9	
ROUTE 65 "D13" - R+	881+79.69 TO 882+18.17	37.4			L
ROUTE 65 "D13" - R+	882+18.17 TO 882+43.11			24.9	_
ROUTE 65 "D13" - R+	934+26.95 TO 934+64.45			37.4	_
ROUTE 65 "D13" - R+	"NB10" 1049+33.41 TO 1049+70.91	37.4			⊢
ROUTE 65 "D13" - R+	1049+70.91 TO 1049+95.84			24.9	_
ROUTE 65 "D13" - R+	1117+40.94 TO 1117+78.24	37.4		04.0	⊢
ROUTE 65 "D13" - R+	1117+78.24 TO 1118+03.17			24.9	-
ROUTE 65 "D13" - R+	1163+60.71 TO 1163+98.21			37.4	╞
ROUTE 65 "D13" - R+	1173+94.50 TO 1174+31.99	37.4		04.0	⊢
ROUTE 65 "D13" - R+ DOWD ROAD "DOWF1" - L+	1174+30.99 TO 1174+56.93	77 4		24.9	⊢
DOWD ROAD DOWFT - LT DOWD ROAD "DOWF1" - LT	1171+41.35 TO 1171+79.70	37.4		24.9	+
NICOLAUS ROAD "NIC1" - R+	1171+79.70 TO 1172+04.63 39+46.84 TO 45+62.49		615.5	24.9	-
NICOLAUS ROAD NICT - RT	45+62.49 TO 46+49.85	87.3	015.5		┢
NICOLAUS ROAD NICT - RT	49+42.93 TO 50+05.37	62.3			┢
NICOLAUS ROAD "NICI" - RT	50+05.37 TO 54+69.14	02.5	463.9		+
NICOLAUS ROAD "NICI" - LT	39+46.84 TO 45+77.15		630.2		-
NICOLAUS ROAD "NIC1" - L+	45+77.15 TO 46+39.59	62.3	030.2		⊢
NICOLAUS ROAD "NIC1" - L+	49+32.66 TO 50+20.03	87.3			⊢
NICOLAUS ROAD "NIC1" - L+	50+20.03 TO 54+69.14		449.1		+
NORTH FARM ROAD "NOF1" - R+	162+08.78 TO 162+46.18	37.4			\vdash
NORTH FARM ROAD "NOF1" - R+	162+46.18 TO 162+71.21			24.9	t
NORTH FARM ROAD "NOF1" - R+	165+41.88 TO 165+66.81				t
NORTH FARM ROAD "NOF1" - R+	165+66.81 TO 166+01.03	37.4			t
NORTH FARM ROAD "NOF1" - L+	162+07.83 TO 162+32.86	37.4			t
NORTH FARM ROAD "NOF1" - L+	162+32.86 TO 162+70.26			24.9	T
NORTH FARM ROAD "NOF1" - L+	162+09.01 TO 162+46.41			24.9	T
NORTH FARM ROAD "NOF1" - L+	162+46.41 TO 162+71.44	37.4			F
	TOTAL	853.3	2950.7	423.4	

CUR	B RAMPS		03	Dia		POST MILES TOTAL PROJECT	SHEET T No. SH
CUR				Pla	65	R11.9/R24.1	
	D RAMF3						ROFESSIONA
			REG	ISTERED C	IVIL ENGIN		
LOCATION	STATION	MINOR CONCRETE (CURB RAMP)		NS APPRO STATE OF CA. GENTS SHALL		TS OFFICERS ONSIBLE FOR S OF SCANNED	
		СҮ	THE . COPIL	ACCURACY OR ES OF THIS F	COMPLETENES PLAN SHEET.	S OF SCANNED	OF CAL IFORNI
DUSTRIAL Ave "IND1" - R+	40+41.33	2.90					
DUSTRIAL Ave "IND1" - R+	41+46.96	5.18					
DUSTRIAL Ave "IND1" - R†	44+51.43	2.12					
DUSTRIAL PARK AND RIDE PERIMETER	R 44+94.73	2.80					
IRB RAMPS AT PARK AND RIDE	RAMP #1	0.76					
RB RAMPS AT PARK AND RIDE	RAMP #2	0.76					
RB RAMPS AT PARK AND RIDE	RAMP #3	0.76					
IRB RAMPS AT PARK AND RIDE	RAMP #4	0.55					
IRB RAMPS AT PARK AND RIDE	RAMP #5	3.94					
DUSTRIAL Ave "IND1" - Rt	49+38.43 TO 49+70.89	3.90					
DUSTRIAL Ave "IND1" - R+	50+22.20 TO 50+41.02	2.18					
DUSTRIAL Ave "IND1" - Rt	59+52.14 TO 59+68.55	3.57					
DUSTRIAL Ave "IND1" - Rt	71+37.81 TO 71+50.63	1.75					
RRARI RANCH ROAD "FR" - L+	70+78.56 TO 70+88.91	2.22					
RRARI RANCH ROAD "FR" - L+	71+32.90 TO 71+61.21	4.80					
RRARI RANCH ROAD "FR" - L+	71+85.16 TO 72+09.13	4.11					
RRARI RANCH ROAD "FR" - L+	72+21.97 TO 72+32.72	2.34					
RRARI RANCH ROAD "FR" - L+	80+99.16 TO 81+17.20	2.47					
RRARI RANCH ROAD "FR" - L+	81+20.00 TO 81+31.74	2.03					
RRARI RANCH ROAD "FR" - L+	81+70.26 TO 81+87.35	2.62					
RRARI RANCH ROAD "FR" - L+	81+89.90 TO 82+03.25	2.33					
RRARI RANCH ROAD "FR" - R+	80+98.39 TO 81+21.55	3.37					
RRARI RANCH ROAD "FR" - R†	81+24.73 TO 81+36.32	1.78					
RRARI RANCH ROAD "FR" - R+	82+10.82 TO 82+23.83	2.15					
COLAUS ROAD "NIC1" - L+	46+14.65 TO 46+39.58	2.24					
COLAUS ROAD "NIC1" - R+	46+24.92 TO 46+49.85	2.24					
	49+32.66 TO 49+57.59	2.24					
COLAUS ROAD "NIC1" - L+		2.24					
COLAUS ROAD "NIC1" - L+ COLAUS ROAD "NIC1" - R+	49+42.93 TO 49+67.86						

LOCATION	STATION	MINOR CONCRETE (SIDEWALK)	CLASS 2 AGGREGATE BASE	REMOVE SIDEWALK
		CY	CY	SQYD
INDUSTRIAL Ave "IND1" - R†	39+24.22 TO 40+27.94	9.9	9.9	
INDUSTRIAL Ave "IND1" - R+	41+60.35 TO 44+49.38	47.2	47.2	
INDUSTRIAL Ave "IND1" - R+	44+98.80 TO 49+32.08	47.0	47.0	
INDUSTRIAL PARK AND RIDE PERIMETER	61.4' R+ 40+50.24 TO 328.1' R+ 42+07.78 328.1' R+ 42+07.78 TO 328.1' R+ 44+15.34	102.8	102.8	
INDUSTRIAL PARK AND RIDE INTERIOR	76.1'R+ 41+34.46 TO 299.5'R+ 42+11.72	32.0	32.0	
INDUSTRIAL Ave "IND1" - R+	49+22.19 TO 49+74.91	5.8	7.6	
INDUSTRIAL Ave "IND1" - Rt	50+17.02 TO 59+70.84	113.8	151.7	
INDUSTRIAL Ave "IND1" - Rt	71+35.33 TO 72+32.54	10.6	14.1	
FERRARI RANCH ROAD "FR" - L†	70+43.94 TO 70+96.43	7.7	10.3	
FERRARI RANCH ROAD "FR" - L+	72+17.82 TO 75+13.10	44.1	58.7	
FERRARI RANCH ROAD "FR" - L†	81+03.65 TO 81+36.45	5.5	7.5	
FERRARI RANCH ROAD "FR" - L+	81+85.67 TO 86+61.39	67.9	90.6	
FERRARI RANCH ROAD "FR" - R+	81+20.05 TO 81+39.73	6.3	8.2	
FERRARI RANCH ROAD "FR" - R†	82+02.07 TO 82+44.72	5.6	7.5	
FERRARI RANCH ROAD "FR" - L+	85+79.37 TO 86+58.11			23.88
	TOTAL	506.2	595.1 ×	23.88

* QUANTITY INCLUDED IN PAVEMENT STRUCTURE QUANTITIES SUMMARY.

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SUMMARY OF QUANTITY SHEET, EXAMPLE "65 Q-11"

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CALIFORNIA	trans.	THIS FXAMPLE IS ONE OF MANY FXAMPLES OF
Р	5	THE VARIOUS TYPES OF PROJECT PLAN SHEETS
STATE	IF °(FROM THE SAME CONSTRUCTION PROJECT, "ROUTE 65 BYPASS PROJECT."

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CALCULATED-DESIGNED BY СНЕСКЕД ВҮ

DEPARTMENT OF TRANSPORTATION

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DATE REVISED REVISED BY

BORDER LAST REVISED 7/2/2010

USERNAME =>s111271 DGN FILE =>pa-65 Q-011.dgn

RELATIVE BORDER SCALE IS IN INCHES

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UNIT 0000

SUMMARY OF QUANTITIES Q-11

012.dgn	RELATIVE BORDER SCALE IS IN INCHES	°	1	 2
012.dgn	IS IN INCHES			
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USERNAME => s111271 DGN FILE => pa-65 0-01 UNIT 0000

INDUSTRIAL Ave "IND1" - R+ BACK CURB 41+58.45 TO 43+06.56 8.5 INDUSTRIAL Ave "IND1" - R+ PARK & RIDE 61.4'R+ 40+50.24 TO 328.1'R+ 44+15.34 35.6 INDUSTRIAL Ave "IND1" - R+ PARK & RIDE 13.1 76.1'R+ 41+34.46 TO 287.4'R+ 41+34.46 INDUSTRIAL Ave "IND1" - R+ 43+06.46 TO 44+49.06 6.1 INDUSTRIAL AVE "IND1" - R+ ISLAND 44+62.35 TO 44+78.45 1.2 INDUSTRIAL AVE "IND1" - R+ BK OF SW 44+94.73 TO 48+45.19 19.4 INDUSTRIAL PARK & RIDE CURB ISLANDS ISLAND CURB #1 12.3 INDUSTRIAL PARK & RIDE CURB ISLANDS ISLAND CURB #2 9.2 INDUSTRIAL PARK & RIDE CURB ISLANDS ISLAND CURB #3 11.6 INDUSTRIAL PARK & RIDE CURB ISLANDS ISLAND CURB #4 11.2 INDUSTRIAL PARK & RIDE CURB ISLANDS ISLAND CURB #5 1.8 INDUSTRIAL PARK & RIDE INTERIOR CURBS 81.0' R+ 41+40.40 TO 298.9' R+ 42+22.87 17.1 INDUSTRIAL Ave "IND1" - R† 49+22.19 TO 49+74.91 2.6 45.1 INDUSTRIAL Ave "IND1" - Rt 50+17.02 TO 59+70.84 INDUSTRIAL Ave "IND1" - Med 57+84.58 TO 59+39.82 8.1 INDUSTRIAL Ave "IND1" - Med 59+70.51 TO 59+99.38 5.0 INDUSTRIAL Ave "IND1" - Med 60+06.38 TO 62+21.26 11.5 INDUSTRIAL Ave "IND1" - Med 70+99.86 TO 71+29.13 2.1 INDUSTRIAL Ave "IND1" - R+ 71+35.33 TO 75+81.99 21.1 FERRARI RANCH ROAD "FR" - Med 62+66.38 TO 71+16.12 45.9 FERRARI RANCH ROAD "FR" - Med 71+85.01 TO 80+83.96 48.1 FERRARI RANCH ROAD "FR" - Med 82+02.07 TO 88+91.04 37.5 FERRARI RANCH ROAD "FR" - L+ 70+43.94 TO 70+96.43 4.3 71+85.01 TO 72+44.07 5.8 FERRARI RANCH ROAD "FR" - L+ FERRARI RANCH ROAD "FR" - L+ 72+17.82 TO 75+13.10 20.8 FERRARI RANCH ROAD "FR" - L+ 81+03.65 TO 81+36.45 3.0 FERRARI RANCH ROAD "FR" - L+ 81+69.26 TO 82+05.35 2.9 FERRARI RANCH ROAD "FR" - L+ 81+85.67 TO 86+61.39 30.9 FERRARI RANCH ROAD "FR" - R+ 81+20.05 TO 81+39.73 3.3 FERRARI RANCH ROAD "FR" - R+ 82+02.07 TO 82+44.72 3.4 FERRARI RANCH ROAD "FR" - Med 6250 62+66.38 TO 88+91.04 RIOSA ROAD "EB11" - Med 83+30.96 TO 84+05.08 6.4 SUBTOTAL 177.3 123.0 65.7 140.2 6250 TOTAL 6250 506.2 THIS EXAMPLE IS ONE OF MANY EXAMPLES OF SUMMARY OF QUANTITY SHEET, EXAMPLE "65 Q-12" THE VARIOUS TYPES OF PROJECT PLAN SHEETS

CURB AND GUTTER QUANTITIES

STATION

39+24.22 TO 40+27.94

40+27.94 TO 40+52.54

40+70.13 TO 41+60.35

41+60.35 TO 44+49.38

44+49.38 TO 44+50.32

44+78.33 TO 49+32.08

LOCATION

INDUSTRIAL Ave "IND1" - R+

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CALIFORNIA

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BORDER LAST REVISED 7/2/2010

FROM THE SAME CONSTRUCTION PROJECT. "ROUTE 65 BYPASS PROJECT."

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MINOR CONCRETE (CURB AND GUTTER)

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1.6

1.6

16.9

1.0

24.2

ЪЦ TYPE CURB GUTTE REMOVE CURB AND GUTTER

LF

MINOR CONCRETE (STAMPED STONE PATTERN) LOCATION STATION INDUSTRIAL Ave "IND1" 59+70.51 TO 60+00 INDUSTRIAL Ave "IND1" 70+99.86 TO 71+29 RIOSA ROAD "EB11" 83+27.76 TO 84+08 RODEO ROAD "ROD1 70+92.64 TO 71+13 TOTAL (N) - NOT A SEPARATE BID ITEM

*QUANTITY INCLUDED IN PAVEMENT STRUCTURE QUANTITIES SUMMARY.

PLACE HOT MIX ASPHALT (TEXTURED PAVING)

LOCATION	STATION		HMA (TYPE A)	CLASS 2 AGGREGATE BASE
		SQYD	TON	CY
"ISLAND F" "F2"	36.52'R+ 706+27.97 TO 3.94'R+ 708+65.25	667	110.7	186.0
FERRARI RANCH INTERSECTION "D13"	73.16' R+ 693+14.30 TO 73.16' R+ 694+75.73	288	47.8	80.3
FERRARI RANCH INTERSECTION "D13"	73.16'L+ 707+52.79 TO 73.16'L+ 708+72.48	251	41.7	70.1
FERRARI RANCH INTERSECTION "D13"	73.16'R+ 714+59.68 TO 73.16'R+ 715+71.16	189	31.4	52.9
FERRARI RANCH INTERSECTION "D13"	73.16'L+ 717+42.08 TO 73.16'L+ 719+03.31	287	47.7	80.2
NELSON LANE INTERSECTION "NB9"	35.43'L+ 819+31.27 TO 35.43'L+ 820+20.75	88	14.7	24.8
NELSON LANE INTERSECTION "NB9"	11.81'L+ 821+84.82 TO 11.81'L+ 822+66.28	76	12.7	21.4
WISE ROAD INTERSECTION "NB10"	31.50'L+ 1025+75.19 TO 31.50'L+ 1026+74.21	114	19.0	31.9
WISE ROAD INTERSECTION "NB10"	27.43'L+ 1028+21.21 TO 19.68'L+ 1029+14.03	108	18.1	30.4
RIOSA ROAD INTERSECTION "NB11"	31.50'L+ 1222+83.00 TO 31.50'L+ 1223+64.68	99	16.6	27.9
RIOSA ROAD INTERSECTION "WB11"	15.75'L+ 71+06.19 TO 15.75'L+ 71+90.40	171	28.4	47.8
RIOSA ROAD INTERSECTION "WB11"	11.32'L+ 70+20.17 TO 3.94'L+ 70+92.99	149	24.8	41.6
	TOTAL	2487	413.6*	695.3*

(N) - NOT A SEPARATE BID ITEM

*QUANTITY INCLUDED IN PAVEMENT STRUCTURE QUANTITIES SUMMARY.

	Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS	18	
	03	Pla	65	R11.9/R24.1			20	
REGISTERED CIVIL ENGINEER DATE								
	OR A THE	GENTS SHALL	LIFORNIA OR II NOT BE RESPO COMPLETENESS PLAN SHEET.	TS OFFICERS NSIBLE FOR OF SCANNED	CIVIL DF CAL IFO	*	SED	

		(N)		
	(N)	CONCRETE	CLASS 2 AGGREGATE BASE	REMOVE ISLAND
	SQYD	CY	CY	CY
0.04	108	17.66	29.4	
.13	42	6.87	11.5	
3.35	289	47.48	79.1	
8.83				32.4
	439	72.01	120.0*	32.4

SUMMARY OF QUANTITIES

SHEET No.	STATION		SHOULDER LENGTH	CENTERLINE LENGTH
			LF	LF
	"D13" 847+89 TO "D13" 881+71	L†	3,382	
L-20 TO L-24	"D13" 847+89 TO "D13" 881+71	R†	3,382	
L-25 TO L-29	"D13" 886+33 TO "D13" 932+96	L†	4,663	
L-25 TO L-29	"D13" 886+33 TO "D13" 932+96	R†	4,663	
L-29 TO L-35	"NB10" 935+04 TO "NB10" 1003+80	L+	6,876	
	"NB10" 935+04 TO "NB10" 1003+80	R†	6,876	
	"NB10" 1045+17 TO "NB10" 1049+18	L†	401	
L-39 TO L-40	"NB10" 1045+17 TO "NB10" 1049+18	R†	401	
	"D13" 1054+77 TO "D13" 1117+45	L†	6,268	
L-40 TO L-47	"D13" 1054+77 TO "D13" 1117+45	R†	6,268	
	"D13" 1119+74 TO "D13" 1161+50	L+	4,176	
L-48 TO L-51	"D13" 1119+74 TO "D13" 1161+50	R†	4,176	
L-51 TO L-52	"D13" 1164+63 TO "D13" 1173+89	L+	926	
L-51 10 L-52	"D13" 1164+63 TO "D13" 1173+89	R†	926	
	"D13" 1177+11 TO "D13" 1200+90	L†	2,379	
L-53 TO L-55	"D13" 1177+11 TO "D13" 1200+90	R†	2,379	

2,752

2,752

63,646

68,425

68,425

R†

RUMBLE STRIP (GROUND-IN)

	ITIES																	
SHEET NO.	STATION	TEMPORARY COVER	TEMPORARY SILT FENCE	TEMPORARY STRAW BALE BARRIER	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY CHECK DAMS (FIBER ROLL)	TEMPORARY FIBER ROLLS	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	TEMPORARY CONSTRUCTION ENTRANCE	TEMPORARY CONCRETE WASHOUTS								
		SQYD	LF	LF	EA	LF	LF	SQYD	ΕA	EA								
L-1 TO L-13	"D13" 645+66 TO "D13" 764+31	57,109	1,476	1,476	21	2,461	93,504	16,325	14	18								
L-13 TO L-24	"D13" 769+71 TO "D13" 882+96	38,092	853	853		2,247	22,310	10,884	7	5								
L-25 TO L-35	"D13" 885+35 TO "D13" 1000+65	49,335	2,854	2,854		2,133	38,058	14,113	7	7								
L-35 TO L-47	"D13" 1000+65 TO "D13" 1117+97	40,185									984	984		2,231	34,613	11,482	7	5
L-47 TO L-64	"D13" 1118+84 TO "D13" 1296+58	85,812	8,760	8,760		4,134	30,676	24,578	14	11								
	TOTAL	270,533	14,927	14,927	21	13,206	219,161	77,382	49	46								

ROCK BLANKET

"NB11"/"D13"/"D16" 1242+54 TO "D16" 1270+06 L+

TOTAL

"NB11"/"D13"/"D16" 1242+54 TO "D16" 1270+06

CENTERLINE RUMBLE STRIP

FROM PAVEMENT DELINEATION SHEETS

SHEET No.	LOCATION	SQYD
L-66	"PARK & RIDE NORTH ENTRANCE ISLAND"	12
L-7	"ISLAND D"	103
L-8	"ISLAND E"	20
L-7	"ISLAND F"	137
L-4	"INDUSTRIAL ISLANDS" SOUTH	225
L-4	"INDUSTRIAL ISLANDS" NORTH	360
	TOTAL	857

ADJUST MANHOLE To grade

SHEET No.	LOCATION	EA
D-70	14′R+ "FR" 67+47.60	1
D-7	13'L+ "FR" 72+47.56	1
D-8	13'L+ "FR" 76+97.52	1
	TOTAL	3

SUMMARY OF QUANTITY SHEET, EXAMPLE "65 Q-13"

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RELATIVE BORDER SCALE IS IN INCHES 0 2

DIST COUNTY ROUTE POST MILES TOTAL PROJECT NO. SHEET TOTAL NO. SHEETS 03 PIG 65 R11.9/R24.1 REGISTERED CIVIL ENGINEER DATE PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCAMED COPIES OF THIS PLAN SHEET.		UPERSED	ES EXAMPI	LE RELEASED	10/ 30/ 0	9
REGISTERED CIVIL ENGINEER PLANS APPROVAL DATE THE STATE OF CALIFORNIA OF ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.	Dist	COUNTY	ROUTE			
REGISTERED CIVIL ENGINEER PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.	03	Pla	65	R11.9/R24	.1	
	PLI THE OR A THE COPI	ANS APPRO STATE OF CA GENTS SHALL ACCURACY OR ES OF THIS D	VAL DATE LIFORNIA OR IT NOT DE RESPO COMPLETENESS LAN SHEET.	S OFFICERS NSIBLE FOR OF SCANNED	No	ENG INEER #
	MS OLL)	۲LS ۲۲	RY C MULCH FIBER	STION	~	

OF QUANTITIES SHEET, EXAMPLE

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SHEET No.	LF
L-1	568
L-3	579
L-17	371
L-18	330
L-19	566
L-20	699
L-21	179
L-24	510
L-25	298
L-33	723
L-34	237
TOTAL	5060

SUMMARY OF QUANTITIES Q-13

		1			-				
SHEET NO.	STATION	CHAIN LINK FENCE (TYPE CL-6)	CHAIN LINK FENCE (TYPE CL-4)	WROUGHT IRON FENCE	10' CHAIN LINK GATE (TYPE CL-6)	14' CHAIN LINK GATE (TYPE CL-6)	20' CHAIN LINK GATE (TYPE CL-6)	FENCE (TYPE WM, METAL POST)	REMOVE
		LF	LF	LF	EA	EA	EA	LF	LF
L-1 TO L-4	"D13" 646+14.83 TO 678+43.60	5,399	L1	L !				16	4,65
L-2, L-3, & L-67	"INDR1" 661+65.70 TO 679+23.10	1,063						10	1,18
L-3, L-65 TO L-69	"IND1" 32+33.66 TO 83+51.55	2,561						27	1,95
L-4 TO L-6	"D13" 678+43.60 TO 690+10.44	2,298			4				1,05
L-6 TO L-9	"D13" 690+10.44 TO 723+58.70	701							
L-6 TO L-8	"F1" 690+45.45 TO 706+85.34	1,655							
L-8 TO L-9	"F2" 705+59.73 TO 721+01.87	,,		1,635	1				
L-6 TO L-7	"F4" 690+71.08 TO 706+08.38	1,644		.,	1				
L-7 TO L-9	"F5" 706+03.04 TO 720+67.31	1,302							
L-9 TO L-10	"D13" 723+58.70 TO 730+60.46	1,833			2			74	1,89
L-13 TO L-18	"D13" 760+57.87 TO 807+08.41	2,345			4			746	1,88
L-18 TO L-19	"D13" 808+69.21 TO 818+83.90	9,492						234	3,6
L-72 TO L-73	"NEL1" 32+80.83 TO 65+61.66	3,496						150	5,2
L-19 TO L-21	"NB9" 823+33.51 TO 849+79.26	5,289						9	1:
L-21 TO L-24	"D13" 849+79.26 TO 883+03.95	6,963							
L-25 TO L-28	"D13" 885+07.88 TO 918+63.24	7,417			2				
L-74 TO L-77	"NIC1" 23+62.19 TO 72+17.82	6,518						2,422	9,02
L-28 TO L-29	"D13" 921+91.32 TO 933+85.86	2,858						,	· · · · ·
L-29 TO L-33	"D13" 933+85.86 TO 985+32.90	10,690			2				-
L-33 TO L-35	"D13" 985+32.90 TO 1001+89.98	3,273							-
L-35 TO L-37	"NB10" 1001+89.98 TO 1025+15.61	4,952						10	4
L-78 TO L-80	"WIS1" 16+40.41 TO 72+18.20	4,592						1,073	4,90
L-38 TO L-40	"NB10" 1030+85.64 TO 1049+63.3	3,799			1			134	6,28
L-40	"D13" 1049+63.30 TO 1050+34.39	298							2,60
L-40 TO L-45	"D13" 1053+48.55 TO 1102+35.88	9,998			2				29
L-45 TO L-47	"D13" 1102+35.88 TO 1118+10.68	3,347			1				
L-47 TO L-51	"D13" 1118+10.68 TO 1163+38.23	9,558			4			76	2,20
L-51 TO L-52	"D13" 1163+38.23 TO 1175+19.33	2,985	1,314			2		76	2,3
L-81 TO L-83	"DOWD1" 32+80.83 TO 85+29.32							755	4,88
L-52 TO L-55	"D13" 1175+19.33 TO 1199+02.28	4,852	2,417		2				
L-55 TO L-57	"NB11" 1199+02.28 TO 1222+42.63	5,567	2,822						
L-86 TO L-91	"EB11" 62+80.83 TO 84+39.59	1,013	1,662					47	5,08
L-57 TO L-59	"NB11" 1225+30.38 TO 1247+19.10	6,189					1		3,12
L-59	"D13" 1247+19.10 TO 1249+34.00	420						11	7,34
L-59 TO L-64	"D16" 1249+34.00 TO 1319+54.98	5,657						22	3,93
	TOTAL	140,024	8,215	1,635	26	2	1	5,882	74,2

FENCE AND GATE SUMMARY

THE VARIOUS TYPES OF PROJECT PLAN SHEETS FROM THE SAME CONSTRUCTION PROJECT, "ROUTE 65 BYPASS PROJECT."

THIS EXAMPLE IS ONE OF MANY EXAMPLES OF

SUMMARY OF QUANTITY SHEET, EXAMPLE "65 Q-14"

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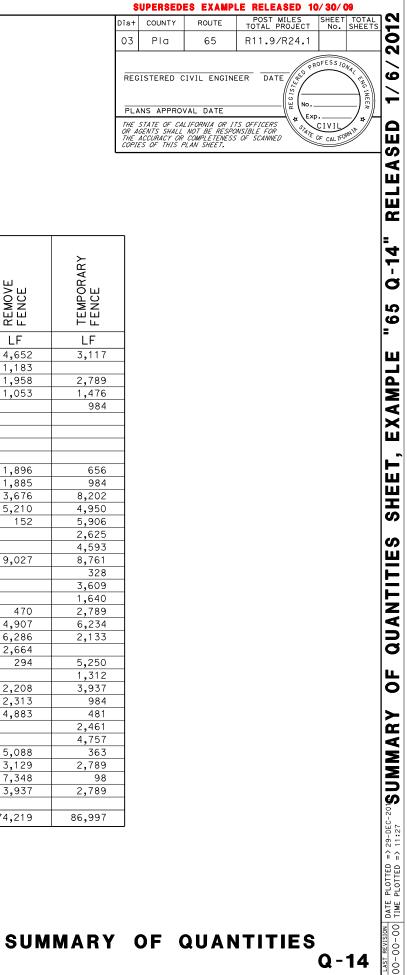
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THE SUMMARY OF QUANTITIES HAS TWO MAIN FUNCTIONS:

- 1. Summarizes items that are generally shown on the Layout sheets or Construction Detail sheets.
- 2. Summarizes totals from some of the various other quantity sheets.

GENERAL INSTRUCTIONS:

- As much as possible group similiar type items together. Items included on the Summary of Quantities sheets 1. are usually grouped by the type of work or the location of work.
- 2. If the same bid item is shown on different types of plan sheets (i.e. Layouts, Drainage, Stage Construction, Structure plans, etc.), the "Grand Total" is usually summarized on the Summary of Quantities sheets.
- 3. If a bid item is shown on different sheets, then the quantity total is to be on a separate row, labeled as "Subtotal." The "Grand Total" for that bid item should then be shown on the Summary of Quantities.
- 4. Headings for all "Bid Items" must match the description for the bid item shown in the Bid Item List. The total project quantity for an item needs to correspond to the quantity shown in the Bid Item List.
- 5. Use the same number of decimals for the same bid item (same degree of accuracy for entire column). The decimal point (period) is to line up within the column, making it quick and easy to see the quantities.
 - For quantities that total into the ten-thousands, use a comma. A comma may be used for quantities that total into the thousands. If a comma is used, apply it to all columns within that specific table.
- 6. "Speciality Item" is no longer to be used to identify a bid item.

"Final Pay" is only to be identified on the Bid Item List. Final Pay is not to be mentioned anywhere within the contract plans.

 Excavation and Embankment quantities are to be summarized in the same manner on the Profile Sheets and the Summary of Quantities sheets. These quantities are the actual unadjusted values.

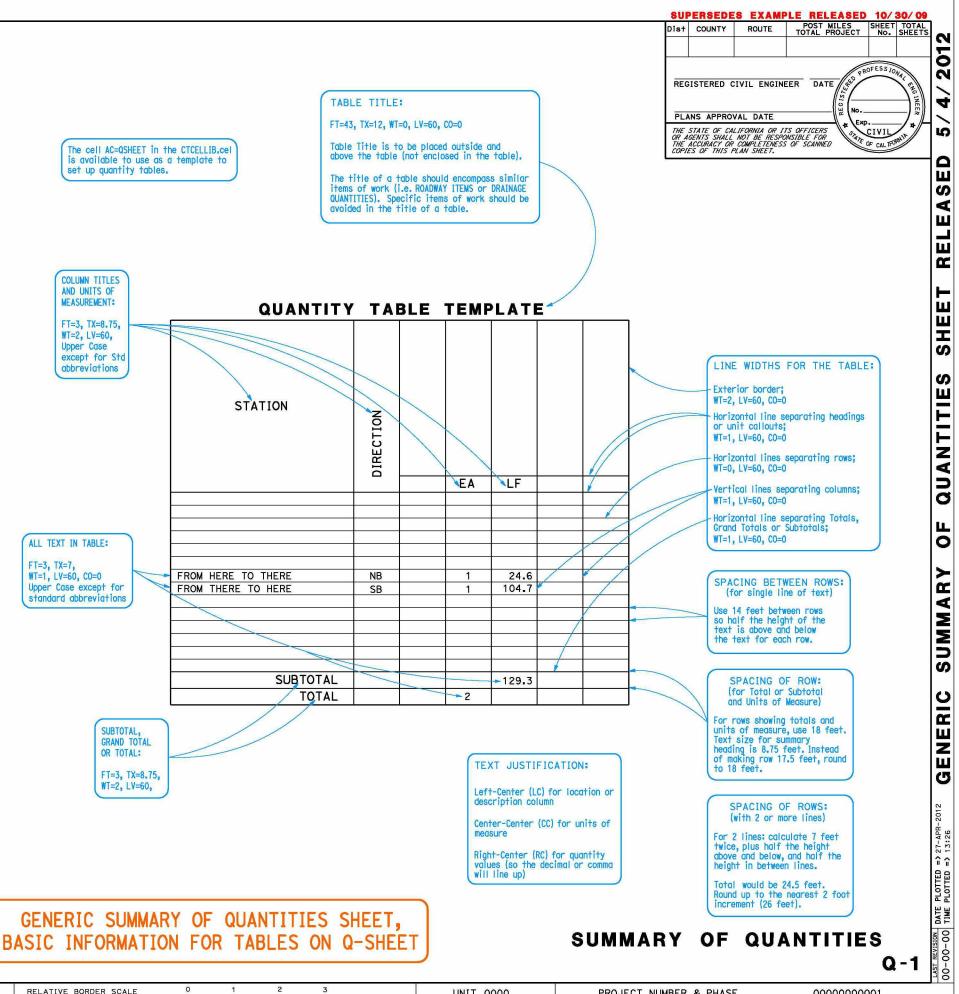
The Grand Total for Embankment should account for any a separate row in the earthwork quantity table to identify any Subsidence quantity, if it is applicable to the project.

8. For retaining walls or sound walls, the quantities for each wall is to be listed with the sheets for each wall. If there is more than one wall of the same type within the project (common bid items), then summarize the bid items for the walls on the Summary of Quantities sheets.

If some walls are included in the Structures portion of the PS&E submittal, in addition to the roadway submittal, include a cross reference note saying there are additional walls in the structures plans.

above the table (not enclosed in the table).

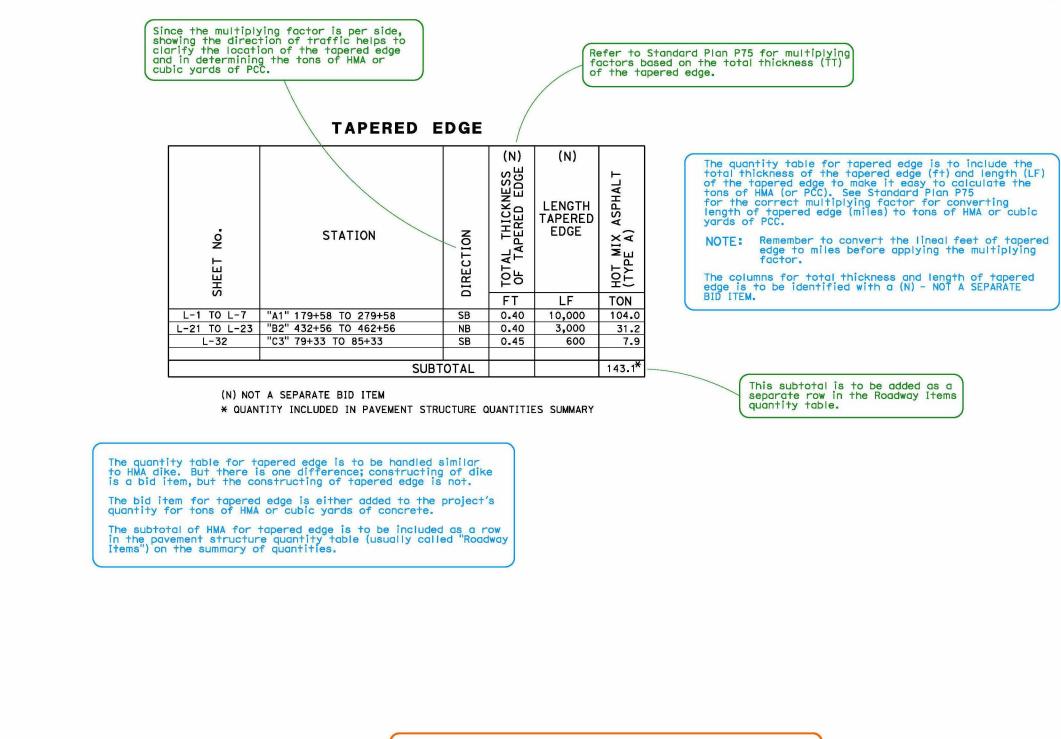
items of work (i.e. ROADWAY ITEMS or DRAINAGE QUANTITIES). Specific items of work should be avoided in the title of a table.



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PROJECT NUMBER & PHASE

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GENERIC SUMMARY OF QUANTITIES SHEET 2, FOR TAPERED EDGE QUANTITY TABLE

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS	8
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QUANTITIES

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SUMMARY

GENERIC LAST REVISION DATE PLOTTED => 10-SE 00-00-00 TIME PLOTTED => 17:52 SUMMARY OF QUANTITIES Q-2 **PROJECT NUMBER & PHASE** 0000000001



PRE/POST CONSTRUCTION SURVEYS

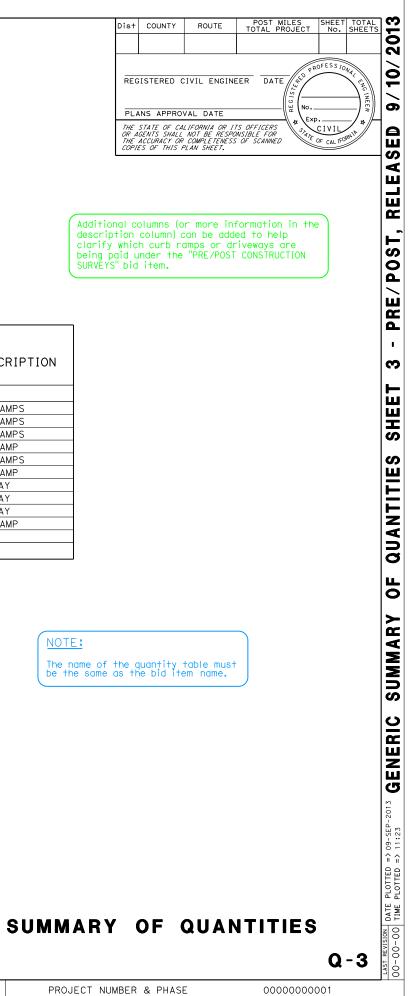
SHEET No.	LOCATION	STATION	CURB RAMP- DRIVEWAY IDENTIFICATION	NUMBER OF CONSTRUCTION SURVEYS	DESCRI
				EA	
C1	ROUTE 999 "B1" - NB OFF RAMP	134+51.43	CR #1, CR #4	2	CURB RAMF
C2	ROUTE 999 "B2" - NB ON RAMP	135+94.73	CR #7, CR #13	2	CURB RAMF
С3	ROUTE 999 "B4" - SB ON RAMP	134+39.77	CR #14, CR #17	2	CURB RAMF
C 4	ROUTE 999 "B3" - SB OFF RAMP	135+98.65	CR #19	1	CURB RAMF
C5 AND C6	ROUTE 999 "B1" PARK AND RIDE (NB)	129+17.62	CR #21 TO CR #23	3	CURB RAMF
C7	ROUTE 1 "D1" (NB)	89+17.62	CR #27	1	CURB RAMF
C8	ROUTE 1 "D1" (NB)	91+56.34 TO 91+91.22	DW #9	1	DRIVEWAY
C8	ROUTE 1 "D1" (NB)	93+08.22 TO 93+48.22	DW #17	1	DRIVEWAY
C8	ROUTE 1 "D1" (NB)	98+68.93 TO 99+06.47	DW #27	1	DRIVEWAY
C7	ROUTE 1 "D1" (NB)	104+67.31	CR #31	1	CURB RAMF
			TOTAL	15	

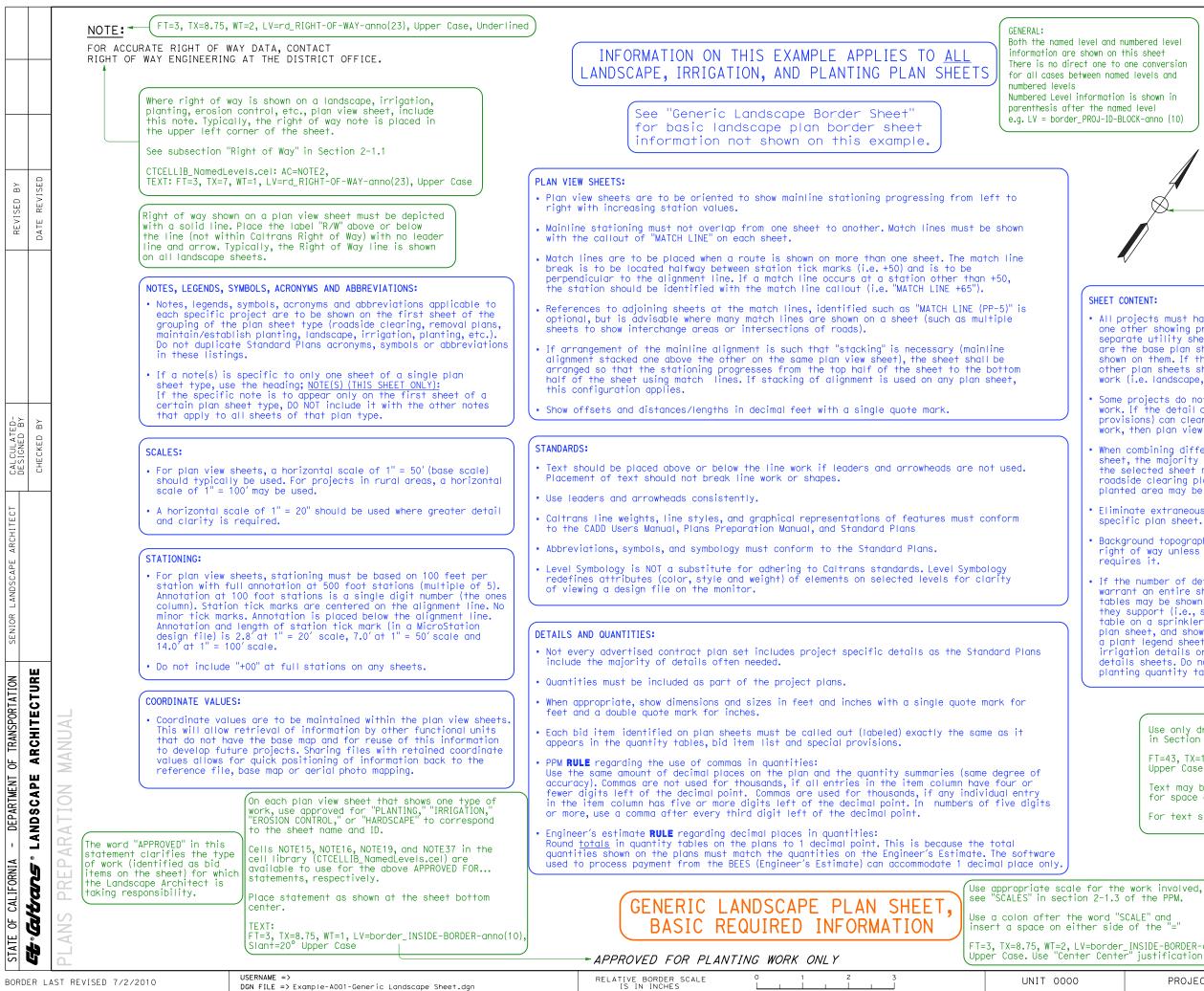
GENERI	C SUMMARY	OF	QUANTITIE	S SHEET 3,
FOR	PRE/POST	CONS	TRUCTION	SURVEYS
	QUA	NTIT	Y TABLE	

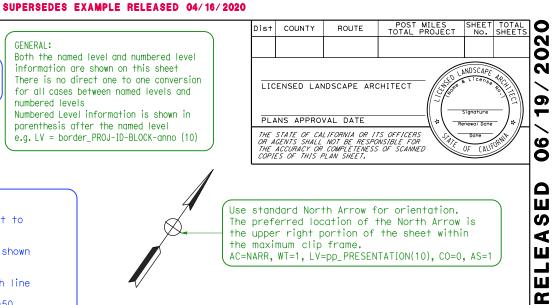
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SHEET CONTENT:

• All projects must have at least two sheets (a title sheet and one other showing proposed work). It is recommended that separate utility sheets be included for each project. The layouts are the base plan sheets and all plan sheet information can be shown on them. If the layouts become too crowded or cluttered, other plan sheets should be used to clearly show the proposed work (i.e. landscape, irrigation, planting, etc).

Some projects do not need plan view sheets to show the proposed work. If the detail and quantity sheets (along with the special provisions) can clearly and concisely show and explain the proposed work, then plan view sheets may not be necessary.

When combining different types of work (bid items) on one plan sheet, the majority of the work on that plan sheet will determine the selected sheet name. For example, plant removal may be on the roadside clearing plan or planting plan, or maintain existing planted area may be shown on the planting plan, if there is room.

Eliminate extraneous information NOT directly related to that specific plan sheet.

Background topography should not generally be shown outside the right of way unless the design of the project (or specific sheet) requires it.

If the number of details or the number of quantity tables do not warrant an entire sheet, and if there is room, details or quantity tables may be shown on a schedule sheet or plan view sheet that they support (i.e., show an irrigation detail or irrigation quantity table on a sprinkler schedule sheet or on an irrigation plan sheet, and show a planting detail or planting quantity table on a plant legend sheet or on a planting plan sheet). Do not combine details sheets. Do not combine irrigation quantity tables or planting quantity tables on landscape (hardscape) quantity sheets.

> Use only drawing names and plan sheet IDs listed in Section 2.1 of the CADD Users Manual.

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Text may be reduced to a minimum of TX=12 for space constraints.

For text sizes see CADD Users Manual Section 2.6

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PLANTING PLAN → SCALE: 1" = 50'

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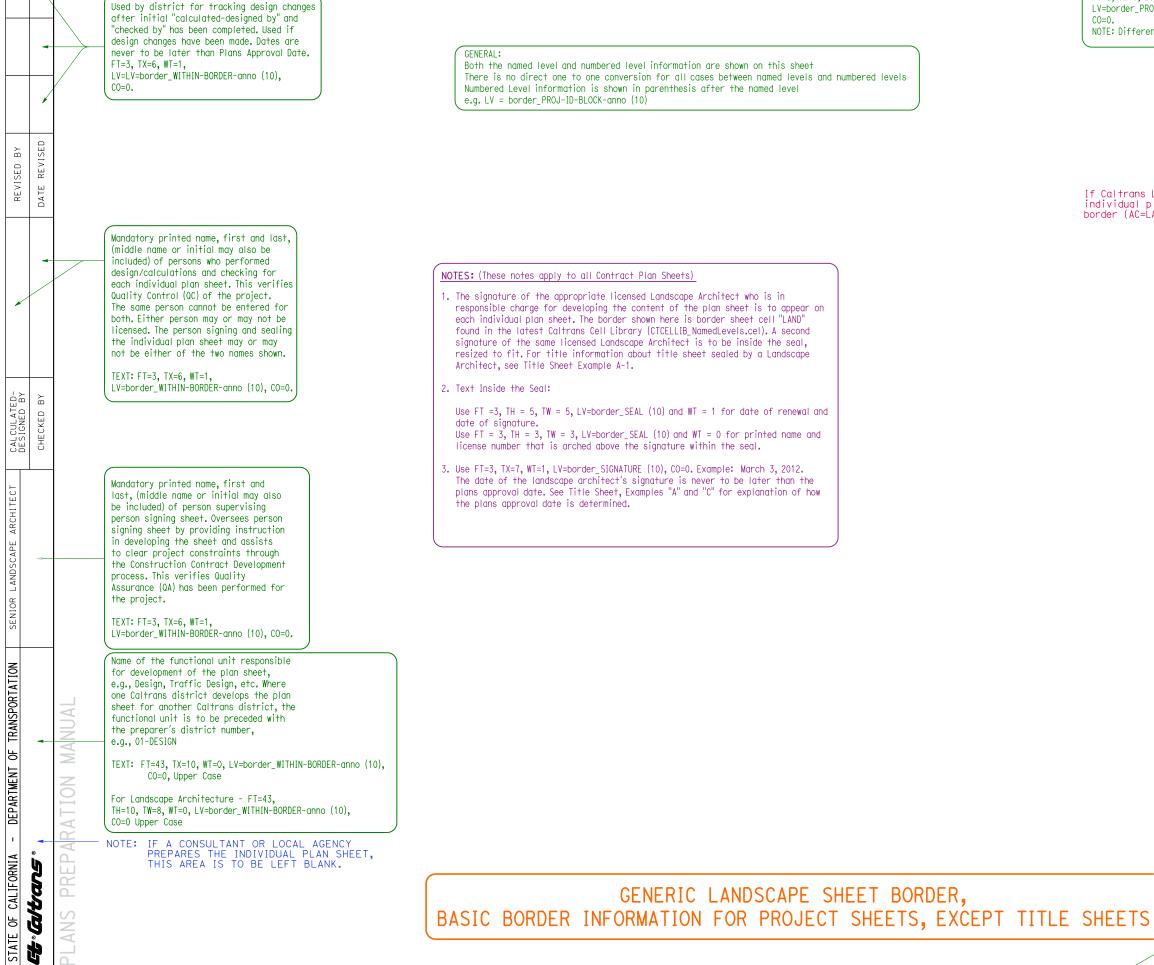
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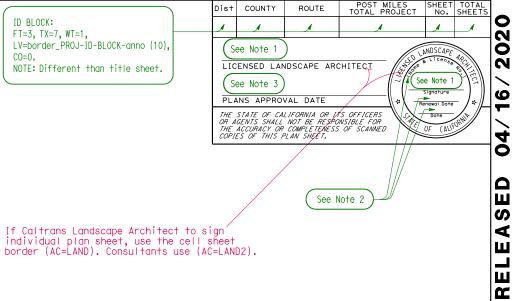
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RELATIVE BORDER SCALE IS IN INCHES

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SUPERSEDES EXAMPLE RELEASED 03/19/2018



	This date is used by district drafting staff to reflect the last drafting change to each sheet. Date is never to be later than Plans Approval Date. (Not required for PS&E submittal.)	TE PLOTTED => 16-APR-2020
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LANDSCAPE

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			The irriga	tion sprinkler	R SCHEDULE schedule identifies sprinkler m components. Sprinkler symbols prinkler schedule, not on the	Use the cell fi or delete rows	rom the Ce ; and colum	ell Lib ins as	orary 5 requ	and add uired													
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REV	DATE	-			ITEM DESCRI			S	н х міртн	ING		DISCHARGE RATE (+/- 5%) PRECIPITATION RATE (+/- 5%)		CONNECTION	JOINT TYPE	±		ER SPRIN LY ASSE		IKLER MBLY JAL	WELL PIPE LENGTH		
CALCULATED-	CHECKED BY	-		SYMBOL	The entries in this column descriptions in the Bid Iter			SPRAY PA	RADIUS	T F NGTH	Derating Pressure		-/+) GPH	INCH/hr	HOINT INLET	VING	$\overline{}$	HE IGH	MATERIAL	HEIGHT	SPRINKLER PROTECTOR	I TREE WELL TREE WELL DRAINPIPE	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION SENIOR LANDSCAPE ARCHITECT	Contrans · Landscape architecture	PLANS PREPARATION MANUAL	Use standa The symbol with the pr Circle Squar Circle and they incluc assembly a	s on the irrig roject irrigat a symbol is ty e symbol is ty square symbo de a number w nd an even nu Typically used with O/C spac with O/C spac with O/C spac in the appl Common exan DRIP TUBING FLOW SHUT-C SPRINKLER B SPRINKLER B INCLUDE CHE	symbols from the current Caltrans nation sprinkler schedule must be of ion plans. pically used for part circle spray vpically used for gear driven sprink ithin the symbol. Use an odd numbe mber for a pop-up assembly. d for shrub spray, stream spray or ing and spray pattern. project specific. Circle the note r led in the column heading for the icable cell for the plant species. nple notes include: TO HAVE A NON-ADJUSTABLE DISCHARG FF FEATURE NOT REQUIRED DOY TO INCLUDE PRE-INSTALLED FLOW ODY TO INCLUDE PRE-INSTALLED PRESS ODY TO INCLUDE PRE-INSTALLED CHECK	consistent pattern. pattern. lers and r for a riser bubblers bubblers cumber and show the applicable item of CE RATE SHUT-OFF FEATURE SURE REDUCING FEA	F/P Full F Ful P Par TQ Thr Cir OPERAT PRECIP Operatir reflect the fiel INLET Show the It is no SWING See Stan Type I of Type I III to the p	II/Part II Circ rt Cir ree-Ou IING IITAT g pre manu d per CONN e Nat t of nec JOINT idard r II: Use Jane	t Circ ile cle ile cle ile trent factu formational iecrII ional iecrII Plan of th Const of th	H T Q SSURE, DI RATE e and disc rer's cata ance of th CON Pipe Three ry to indic PE H5. Indica idjacent to opes. Allon te slope.	Two-Thirds C Half Circle Third Circle Quarter Circ ISCHARGE I sharge and p ilogue speci- ne sprinkler ad (NPT) size cate male of the detail ty o shoulders, ws for adjus	RATE A recipit fication e expre femal dikes, ting ri	AND ation r ssed ir curbs isers p	de Strip d Strip rates should necessarily	PLA	See Sta Riser T Use on likely t hoses, s recomme is in th Riser T Use whe by vehi Riser T Use whe with a automat Riser m using T Riser T Use whe is spec	ndard PI- ype I full circ to get br string tr nended to ne weak p ype II re heads cles or p ype II re heads cles or p ype II a flexibl al to get ype IV re riser- ehicles to re riser standard rically s aterial s ype V re flood ified whe	an H4. le and roken t immer speci- boint i are r bedest le risk broke s are nay run PVC c tops t should s it co bubble cn this	but may s and off fy GSP ri not locat rians, i.e er to be en. likely to be flow of be GSP. I omes with ers are p s riser is	e detail - rcle spri suffer d her main iser man ser. ed in an e., immed installe o get bro hem or Riser Ty or a dev of water Do not c h the su placed in s used.	type. inkler he damage fr tenance erial to area su diately ad ed where oken, i.e. in pedest ype IV is ice that dependir allout fo pport.	om dragg activitie ensure the oject to djacent t risers ha rian are intended breaks u breaks u g on the r a rise	ging sp s. It is ne coup distur o walls ave a r t to s as when t to be pon im c circur r suppo o swing
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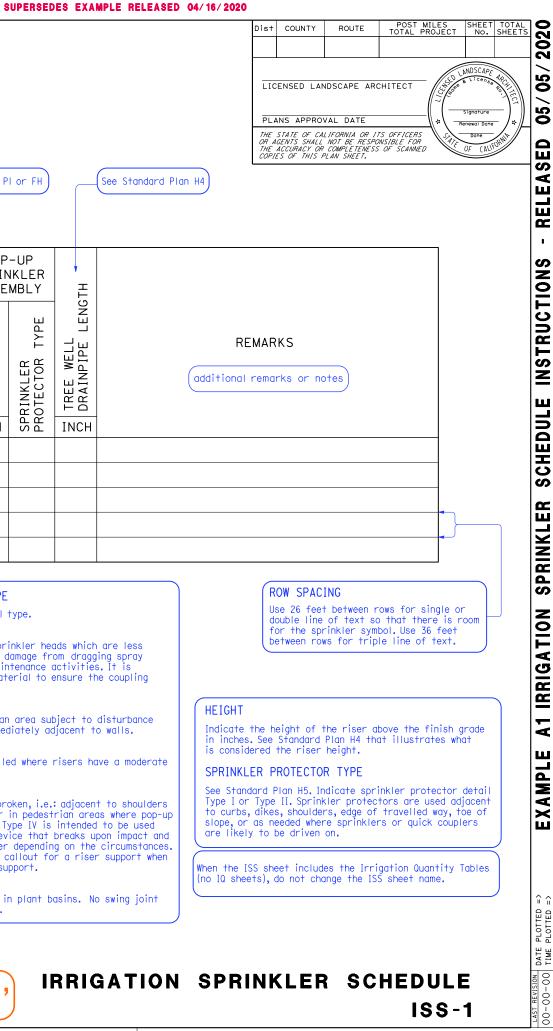
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This example shows a completed irrigation sprinkler schedule plan sheet.

Use generic values for performance data in table that can be met by a variety of products.

IRRIGATION SPRINKLER SCHEDULE

are deleted.

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							TE ()	RATE	NOI		SF	RISER RINKL SSEMBI	ER		-UP NKLER MBLY	ЗТН
		YMBOL	ITEM DESCRIPTION	RAY PATTERN	RADIUS	OPERATING PRESSURE	DISCHARGE RAT (+/- 5%)	PRECIPITATION (+/- 5%)	INLET CONNECT DIAMETER	ING JOINT TYPE	PE	НЕІСНТ	TERIAL	НЕІСНТ	RINKLER OTECTOR TYPE	TREE WELL DRAINPIPE LENGTH
		sγI		SPRA	f†	psi	GPM	INCH/hr	INCH	SWS	ТҮ	INCH	MA	INCH	SPI PR(INCH
		5	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN)	Р	35	35	2.1	0.38	3∕4	Ι	Ι	12	ΡI			
		6	POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN)	Ρ	25	30	1.7	0.60	3⁄4	Ι			ΡI	12	I	
		7	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN)	F	30	45	1.5	0.30	3⁄4	Ι	Ι	12	ΡI			
	_	7	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN)	Р	15	30	0.42	0.41	3⁄4	Ι	Ι	12	ΡI			
(Add rows as required)		8	POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN)	Р	30	35	2.15	0.64	3⁄4	Ι			ΡI	12	Ι	
		•	TREE WELL SPRINKLER ASSEMBLY			30	1.7		1/2	ΙI			ΡI			12
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 PINCLUDE AN INTERNAL OR EXTERNAL CHECK VALVE
 NON-ADJUSTABLE DISCHARGE RATE
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 MATCHED PRECIPITATION RATE NO77155 (1) - IF A PRESSURE COMPENSATING DEVICE IS SPECIFIED, THE DISCHARGE AND RADII SHOWN REFLECT ITS USE

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in table.

LANDSCAPE, IRRIGATION AND PLANTING EXAMPLE A2, SAMPLE IRRIGATION SPRINKLER SCHEDULE

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SUPERSEDES EXAMPLE RELEASED 07/21/2017

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	ENSED LAN	NDSCAPE ARC	CHITECT	LANDSCAPE	*RCH TECT	04/16/2
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EXAMPLE A2 IRRIGATION SPRINKLER SCHEDULE SAMPLE

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IRRIGATION SPRINKLER SCHEDULE ISS-1

	REVISED BY ATE REVISED		Irrigatic items an not incl conducto supply conducto Irrigatic The firs of the i the "Lat There is Irrigatic valve nu	ON QUANTITIES on quantity tables ad quantities used ude pipe fittings ors because pipe f ine bid items and ors are a lump sur on quantity tables t part consists of rrigation bid item eral Supply Side of one table for eac on bid items are of mber (station) and for each irrigati	or control of fittings are d control and im bid item. s are divided of tables that of the contr ach irrigatio quantified b d subtotaled	and neutral included in neutral d into two par- at quantify all installed on ol Valve". n controller. y their respec for all the v	†s.			valve on IQ (main	that re quantit -2, Irri supply	ties are gation side).	e showr Quanti-	ties		Edit iter Spli intc proj any colu con- entr colu ther	ns used it the p as ma ject. 0 of the umn hea troller ry for umn. Th refore	ed on th column any siz Dmit col me irrig eadings r table, r table, c one of his make easier	headings for each tes as are lumns tha- ation con- identical , even if the cont es all tab to read.	, including kind of i used on rollers. M for each there isn' rollers in les consis	g sizes. tem used by dake the irrigation t an a given stent and					only valv spri	olumn f y if the ves bey inkler c	ere are ond thc assembl	e addit ose inc lies.	tiona
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NUMBER 1 NOT NUMER 1 NOT			addition e.g. tex Use Exce to gener If using files in	al information abo t, line weight, etc el spreadsheet or rate quantity tabl Excel files, place the Resident Eng	out standard c. cell from Ce les. e the comple	s for tables,		NTROLLER TTER	LVE MBER	PLASTIC P	(SUPPLY L (SUPPLY L		CHECK VALVE	NELL	RIVEN)	RIVEN)				NTROLLER TTER	L VE MBER	PLASTIC (SCHEDUL	(supply	DRIP IR TUBING		WELL	RIVEN)	RIVEN)		POP-UP
Image: Note of the state o								Ц О С С С	-											ЦО СО			- LF							EA
The control subtotals for all "Lateral supply Side of Control Valve" tables aire of table here. The quarities typically match the Bid Item List (before rounding). Items that are installed on both the lateral supply side of the control valve and the main supply side of the control valve. 1. Place an asterisk in the cell with the total quantity used on the lateral supply side of the control valve. 2. Place the following note below the table: "* INCLOED ON INOT "Irrigation Quantity (Main Supply Side of Control Valve) (sheet number as required). (See Example B3, sample). UNDSCAPE, IRRIGATION AND PLANTING EXAMPLE B1, IRRIGATION QUANTITIES (LATERAL SIDE)	TRANSPORTATION SENIOR LANDSCAPE ARCHITECT RCHITECTURE			Do not include n (stations) that specific irrigat IRRIGATION CONTF Include one tab controller on th controller lette and after Subto table. Use the s as shown on the If more than 26 begin the alphal letters, i.e. AA, SUBTOTAL Unless there is controller on th instead of tota subtotal represa the irrigation of	are not use tion controll ROLLER LETTE ole for each the project. E er under the otal at the b same control e irrigation 6 controllers ibet again wi ,BB, etc.	d on a er. R irrigation Edit the first column bottom of the ler letters plans. are used, th double rigation use subtotal able. The			$ \begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ 23\\ 24\\ \end{array} $											SUBT	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 23 24 OTAL OTAL	_								
LANDSCAPE, IRRIGATION AND PLANTING EXAMPLE B1, IRRIGATION QUANTITIES (LATERAL SIDE)	 a - DEPARTMENT C • LANDSCAPE 	PREPARATION																		tables c (before of the c (e.g. sup 1. Plo lat 2. Plo "* Va	are totale rounding) control vc opply line ace an as teral supp ace the fo INCLUDED Ive) (shee	d here. If . Items th ulve and t of the sa terisk in ly side of ON IQ-2" I t number	ne quar nat are ne main me siz the ce the ce the c the c rrigat as req	ntities e instal n suppl e and n II with control low the ion Qua	typico lled or y side naterio the t valve.	ally mo n <u>both</u> e of th al) sho rotal qu •	atch the the la- ne contr buld be uantity	ne Bid I teral su rol valv shown o used o	Item Li supply s ve as foll on the	lows:
	E G				SCAPE			Λ ΔΝΙ) PI	ANTI	ING	FX۵	MPI	FF	31.	IRR	IGA ⁻			NTIT	IFS	Ί ΔTF	R۵I	SI	DF)				IR
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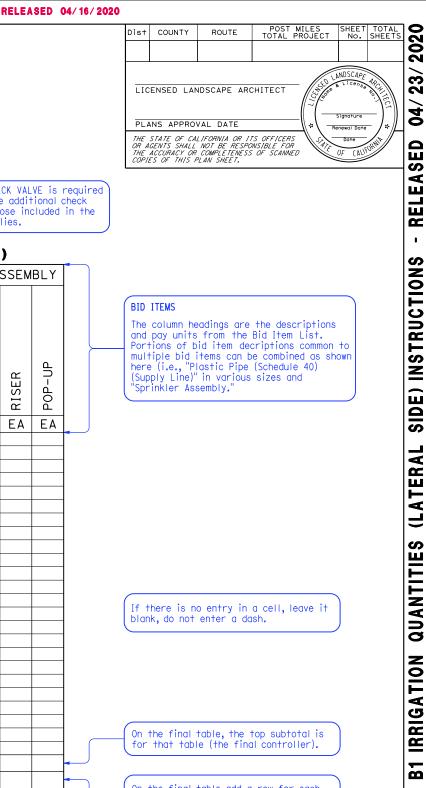
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On the final table add a row for each of the other irrigation controllers (by letter) and transfer the subtotals from the other tables.

See "Generic Landscape Plan sheet, Basic Required Information" for notes regarding commas and decimals in quantity tables.

IRRIGATION QUANTITIES

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Irrigation quantity tables show the irrigation bid items and quantities used on the project. Tables do not include pipe fittings or control and neutral conductors because pipe fittings are included in supply line bid items and control and neutral conductors are a lump cum bid item. conductors are a lump sum bid item.

Irrigation quantity tables are divided into two parts. The second part consists of a table that quantifies all of the irrigation bid items that are installed on the "Main Supply Side of the Control Valve" (including control valves) organized by irrigation plan sheet. The total quantites are to match the project Bid Item List (before rounding).

See "Summary of Quantities" narrative in Section 2-2.19 and Generic Summary of Quantities example sheet for additional information about standards for tables, e.g. text, line weight, etc.

Use Excel spreadsheet or cell from Cell Library to generate quantity tables.

If using Excel files, place the completed electronic files in the Resident Engineer's file for use during construction.

COLUMNS Edit the column headings to match the bid items used on the project, including sizes. Split the column for each kind of item

into as many sizes as are used on the project. Delete unused columns.

GATE VALVES are to be used to divide large irrigation systems into smaller sections so that if there is a malfunction in a section, may be isolated while the other sections remain functional.

VALVES

GATE VALVES are typically installed at each end of an Irrigation Conduit.

BALL VALVES are used upstream of electric remote control valves connected to a manifold. Do not use ball valves at an Irrigation Conduit.

IRRIGATION QUANTITY (MAIN SUPPLY SIDE OF CONTROL VALVE)

		IRRIG. CONTR	ATION OLLER			TER					V	ALVE					(SUP	PLY L	INE)	
	SHEET No.	16-18 STATION (PEDESTAL MOUNTED)	32 STATION _L MOUNTED)	COPPER PIPE	(SUPPLY LINE)	BACKFLOW PREVENTER ASSEMBLY	FLOW SENSOR	WYE STRAINER ASSEMBLY	PRE SSURE RE GUL AT ING	REMOTE	CONTROL	DRIP ASSEMBLY	BALL	U V I L		CAM COUPLER ASSEMBLY	PLASTIC PIPE	(CLASS 315)	GALVANIZED STEEL PIPE	
		16- (PEI	24-32 (WALL	X''	X''	X''	X''	X''	X''	X''	X''	X''	Χ''	Χ''	X''	X''	Χ''	X''	X''	
		ΕA	ΕA	LF	LF	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	LF	LF	LF	
	IP-1																			
•	TOTAL																			

When there are items that are installed on both the lateral supply side and the main supply side (e.g. $2/_2$ " class 315 plastic pipe), the quantities for those items are carried forward from the lateral supply quantity table to the main supply table as follows:

- On the lateral supply side quantity table, show the quantity used on the lateral side of the valve and mark it with an asterisk. Place the note "* Included on IQ-2" (sheet number as required) below the table.
- On the main supply side quantity table on IQ-2, quantities of items used on the main side of 2. the valve are listed in rows by sheet number. Insert a SUBTOTAL row for the sums of the quantities used on the main supply side of the valve.
- Insert an additional row below the subtotal row. Label it "FROM IQ-1" (sheet number as required). 3. Use this row to carry over the quantities used on the lateral supply side of the valve (which were marked with an asterisk on IQ-1). Leave unused cells blank, do not enter a dash.
- Use the "TOTAL" row to show the sum of the items used on the supply side of the valve including 4. the quantities of those items which are used on both the lateral and the main supply sides. Show this quantity on the Bid Item List. Do not create a separate "Total Quantities" table duplicating all the items from the lateral supply side.

(See Example B4, sample).

LANDSCAPE, IRRIGATION AND PLANTING EXAMPLE B2, IRRIGATION QUANTITIES (MAIN SIDE)

BORDER LAST REVISED 7/2/2010

USERNAME =>s111271 DGN FILE => Example-B2_102Main_Instruct.dgr RELATIVE BORDER SCALE IS IN INCHES

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SUPERSEDES EXAMPLE RELEASED 04/16/2020

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							20
					NDSCAPE		~
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		LIFORNIA OR IT		™) //H	Δ
THE		NOT BE RESPO COMPLETENESS NAN SHEET			OF CALIF	ORHIT	Ē
		LAN SILLI.					S

BID ITEMS

The column headings are the descriptions and pay units from the Bid Item List. Portions of bid item description common to multiple bid items can be combined as shown here (i.e., "(Supply Line)" or 'Valve" in various types and sizes.

If there is no entry in a cell, leave it blank, do not enter a dash.

See "Generic Landscape Plan sheet, Basic Required Information" for notes regarding commas and decimals in quantity tables.

IRRIGATION QUANTITIES

IQ-2

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IRRIGATION QUANTITY (LATERAL SUPPLY SIDE OF CONTROL VALVE)

								RINKL	
CONTROLLER LETTER	VAL VE NUMBER	(LASTI SCHEDI SUPPL`	JLE 4(Y LINE))	PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	TREE WELL	RISER (GEAR DRIVEN)	POP-UP (GEAR DRIVEN)
ET	IUN IUN	1"	11/4"	11/2"	2"	21/2"	L	<u>م</u> ر	<u>م</u> ر
	> Z	LF	LF	LF	LF	ΕA	ΕA	ΕA	ΕA
	1	96	192					3	4
	2	96	192					7	
	3	420	340				43		
	4	96	144		100			6	
	5	96	144		109			6	
	6	720	140		110		37		
	7	96	144		190			6	
	8	96	192			130		7	
	9	96	192			12		7	
	10	96	96		160			5	
	11	96	144		140			6	
Е	12	96	192			16		7	
Ē	13	96	192			115		7	
	14	220	270	144		180	116		
	15	96	192			16		7	
	16	96	192			110		7	
	17	650	480		80		46		
	18	96	192			100		7	
	19	80	130		220			6	
	20	90	140		230			6	
	21	224	24					12	
	22	385	255	160		130	33		
	23	280		55				12	
	24								
SUBT	DTAL F	4413	4179	359	1339	809	275	124	4

								RINKL
CONTROLLER LETTER	VALVE NUMBER	(PLASTI SCHED SUPPL	ULE 40	- D) E)	PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	TREE WELL	RISER (GEAR DRIVEN)
ЧN	AL	1"	11⁄4"	11/2"	2"	21/2"	Ē	82
LO	> Z	LF	LF	LF	LF	EA	ΕA	ΕA
	1	100	75	20	220			7
	2	240	160		16			11
	3		90				18	
	4	850	110		40		51	
	5				110			
	6	240	160		46			11
	7	240	40	160				8
_	8	120	160	240				7
F	9 10							
	11							
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	14							
	15							
	16							
	17							
	18							
SUBTO	DTAL F	1790	795	420	432		69	44
SUBTO	DTAL E	4413	4179	359	1339	809	275	124
SUBTO	DTAL D	2800	1907	772	806		279	54
SUBTO	DTAL C	3546	1900	340	975		121	73
SUBTO	DTAL B	1676	1336	135	752		173	56
SUBTO	DTAL A	2136	1586	380	1469		268	37
T	OTAL	16361	11703	2406	5773	809*	1185	388

In this example, $2l_2''$ class 315 plastic pipe is used on <u>both</u> the lateral supply side and the main supply side of the valve. The quantity is carried forward to the main supply side table. (See Example B4, sample).

ANDSCAPE, IRRIGATION AND PLANTING EXAMPLE B3, IRRIGATION QUANTITIES (LATERAL SIDE) SAMPLE

BORDER LAST REVISED 7/2/2010

USERNAME =>s111271 DGN FILE => Sht18-Example-B3 IQLS.dgn RELATIVE BORDER SCALE IS IN INCHES

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SUPERSEDES EXAMPLE RELEASED 07/21/2017

Dis†	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS	20
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See "Generic Landscape Plan sheet, Basic Required Information" for notes regarding commas and decimals in quantity tables.





	IRRIG	ATION		UANTITY	
(MAIN	SUPPLY	SIDE	OF	CONTROL	VALVE)

		ATION OLLER	TER				VAL	_VE			(SUP) LI	PLY NE)
SHEET No.	16–18 STATION (PEDESTAL MOUNTED)	32 STATION LL MOUNTED)	BACKFLOW PREVENTER ASSEMBLY	FLOW SENSOR		REMOTE CONTROL		BALL	0 ∧ T E	GA I E	PLASTIC PIPE	(CLASS 315)
	16- (PED	24-32 (WALL	3"	2"	1"	11/2"	2''	2"	2''	3"	21/2''	3"
	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	LF	LF
IP-1		1										
IP-2						4		2			15	960
IP-3						4		1			15	1100
IP-4	1		1	1	1	8	1	2	2	2	30	530
IP-5						4		1	1		50	970
IP-6												
IP-7						6		1			84	16
IP-8		4	2	2	1	8	2	2	4	2	30	470
IP-9						21		5			80	1220
SUBTOTAL	1	5	3	3	2	55	3	14	7	4	304	5266
FROM IQ-3											809	
TOTAL	1	5	3	3	2	55	3	14	7	4	1113	5266

When there are items used on both the lateral supply side (see Example B3, sample), and the main supply side, insert a row and include the quantity from the lateral supply side in the final total.

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LANDSCAPE, IRRIGATION AND PLANTING EXAMPLE B4, IRRIGATION QUANTITIES (MAIN SIDE) SAMPLE

BORDER LAST REVISED 7/2/2010

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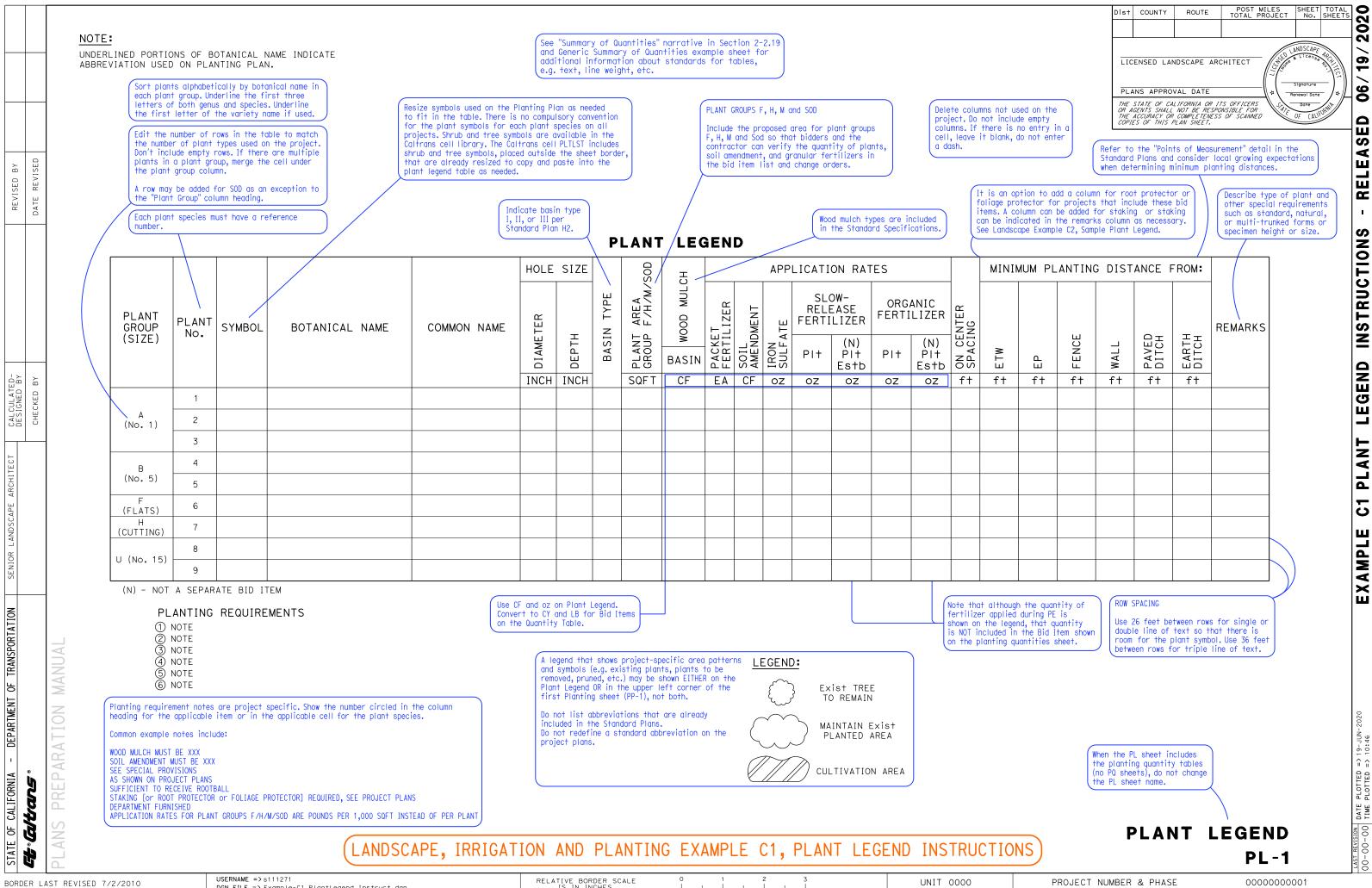
See "Generic Landscape Plan sheet, Basic Required Information" for notes regarding commas and decimals in quantity tables.

IRRIGATION QUANTITIES IQ-4

PROJECT NUMBER & PHASE

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PLOTTED => 17-APR-2020 PLOTTED => 15:37 DATE TIMF



DGN FILE => Example-C1_PlantLegend_Instruct.dgn

RELATIVE BORDER SCALE IS IN INCHES

NOTE:

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

<pre>r PLANT NO. SYMBOL</pre>	BOTANICAL NAME	COMMON NAME	DIAMETER	SIZE	ASIN TYPE	PLANT AREA (GROUP F/H/M/SOD)	1 HOUND HOUN	PACKET FERTILIZER SOIL AMENDMENT	APPLICATI SLOW RE FERTIL ⑦	LEASE	ORGANIC FERTILIZER (N)		ENTER ING	MININ	/UM PL	111	G DIST.	D DITCH	DITCH	REMARKS
LANT No.			μ	L L	ASIN T	AREA F /H	WOOD	KET TILIZER NDMENT	FERTIL ⑦	.IZER ⑦	FERTILIZER	ECTOR ROTECT	ш			ш		DIT	DIT	REMARKS
				ā	m	PL/ (GR		PACK FERT SOIL AMEN	PI+	PI+ Estb	PI+ Estb	ROOT PROT FOLIAGE P STAKING	ON C SPAC	ЕТW	Ч	FENCI	WALL	PAVEI	EARTH	
1			INCH	INCH		SQF T	CF	EA CF	oz	οz	oz	ST FO	f†	f†	f†	f†	f†	f†	f†	-
	<u>ACA</u> CIA REDOLENS ' <u>LOW</u> BOY'	PROSTRATE ACACIA	5	5	II		1.5	1					8	12	10	10	10	10	12	SHRUB
2 ***	<u>BAC</u> CHARIS <u>PIL</u> ULARIS 'PIGEON POINT'	DWARF COYOTE BRUSH	5	5	II		1.5	1					6		10	10	10	10	12	GROUND COVE
3	MALEPHORA	ROCKY POINT	5	5	II		1.5	1					3		10	10	10	10	12	GROUND COVE
4	<u>PAR</u> THENOCISSUS	BOSTON	5	5	III		1.5	1		4		4	12							② VINE
5	<u>PHO</u> RMIUM	NEW ZEALAND	5	5	II			0.25					3		8	6	6	6	8	SHRUB
6	<u>Rha</u> phiolepis	INDIAN	5	5	II			0.25					3		8	10	10	8	10	SHRUB
	ALOE	CORAL			II		1.5	3					1.5		4	3	6	3	4	SUCCULENT
8 ~~~~~	CRASSULA	JADE			II		5	3					5		6	4	8	6	4	SHRUB
9 (HETEROMELES	TOYON			II		5	3					6		6	4	12	10	6	SHRUB
10	<u>SED</u> UM	BUSH				2,500			6 LB	3 LB			2		4	2	2	2	2	(2) GROUND COVE
11	<u>SEN</u> ECIO	BLUE CHALK				10,000			6 LB	3 LB			0.7		4	1	1	1	1	(2) GROUND COVE
12	<u>CAR</u> POBROTUS	ICE PLANT							8 LB/	4 LB/			1		8	3	3	3	8	GROUND COVER
13	<u>CAS</u> SIA	GOLD MEDALLION	6	(5)	II		8	12	TOUD SUFT	TUUU SUFT	8	(4)	3	30		30	20	18	18	TREE
-	TIPUANA	TIPU	-				8	12			8		_	30						TREE
15	ANEMOPSIS	YERBA	_			36							6		4	3	3	3	4	SHRUB
16	AVI	SAN DIEGO				36							6		4	3	3	3	4	SHRUB
17 1 × ×	JUNCUS ACUTUS SSP.	SPINY											6		4.0	3	3	3	4	SHRUB
¥ ¥.	QUERCUS	VALLEY					1.5	1		4		<u>(4)</u> (4)	3	30		12	10	10	10	TREE
	<u>CUP</u> RESSUS	ITALIAN			II		5	5		8				30		12	10	10	10	TREE
	EUCALYPTUS	SUGAR			II		5	5		8				30		20	20	20	17	TREE
	EUCALYPTUS	RED FLOWERING					5	5		8				30	15.0	15	10	10	12	TREE
	<u>TIP</u> UANA	TIPU			II		5	5		8				30		30	25	20	22	TREE
	$ \begin{array}{c} 5 \\ 6 \\ 7 \\ 7 \\ 9 \\ 9 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	4 IRICUSPIDATA 5 PHORMIUM IENAX 6 RHAPHIOLEPIS INDICA 7 + 8 CRASSULA ARGENTEA 9 O 4 O 11 SEDUM DENDROIDEUM 11 SEDUM DENDROIDEUM 11 SENECIO MANDRALISCAE 2 CARPOBROTUS EDULIS 3 C 4 TIPUANA IIPUANA 7 V 5 CALIFORNICA 6 V 14 O 6 V 14 O 15 CALIFORNICA 16 V 17 V 18 QUERCUS LOBATA 9 SEMPERVIRENS 20 EUCALYPTUS CLADOCALYX 21 O EUCALYPTUS FICIFOLIA 22 IIPUANA	S LUIEA ICE PLANT 4 PARTHENOCISSUS IRICUSPIDATA BOSTON IVY 5 PHORMIUM IENAX NEW ZEALAND FLAX 6 RHAPHIOLEPIS INDIAN INDIAN HAWTHORNE 7 ALOE CORAL 8 CRASSULA JADE 9 ARBUTIFOLIA TOYON 0 SEDUM BUSH SEDUM 11 SENECIO BLUE CHALK 11 SENECIO BLUE CHALK 11 CASSIA GOLD MEDALLION 2 CARPOBROTUS ICE PLANT 3 CASSIA GOLD MEDALLION 5 ANEMOPSIS YERBA 6 TIPU TREE 5 ANEMOPSIS YERBA 6 HAYESIANA MANSA 6 QUERCUS VALLEY 9 CUPRESSUS ITALIAN 7 JUNCUS ACUTUS SSP. CYPRESS 20 CUPRESSUS ITALIAN 21 EUCALYPTUS SUGAR 22 EUCALYPTUS RED FLOWERING 22 ILIPUANA TIPU 22 ILIPUANA TIPU	S LUTEA ICE PLANT G 4 PARTHENOCISSUS IRICUSPIDATA BOSTON IVY G 5 PHORMIUM INDICA NEW ZEALAND FLAX G 6 HAPHOLEPIS INDICA INDIAN HAWTHORNE G 7 ALOE CORAL SIBIATA G 8 CRASSULA ARGENTEA JADE G 9 ABGENTEA PLANT G 0 SEDUM DENOROIDEUM BUSH SEDUM G 11 SENECIO BLUE CHALK SIICKS 2 CARPOBROTUS LEPTOPHYLLA ICE PLANT 3 CASSIA BANDALISCAE GOLD MEDALLION TREE 5 CARPOBROTUS LEPTOPHYLLA G 4 ILIPU TREE G 5 ANEMOPSIS CALIFORNICA YERBA 6 V JUA HAYESIANA 6 V ILA 7 VA SAN DIEGO 6 QUERCUS VALLEY 6 QUERCUS VALLEY 8 QUERCUS VALLEY 9 CLOBATA GUM 9 CLALYPTUS 2 EUCALYPTUS 2 EUCALYPTUS 3 CUPRESSUS 3 CALFORIA <td< td=""><td>S LUTEA ICE PLANT S 4 PARTHENOCISSUS IRLICUSPIDATA BOSTON S 5 PHORMIUM IRLICUSPIDATA NEW ZEALAND FLAX S 6 RHAPHIOLEPIS INDIAN NEW ZEALAND FLAX S 6 RHAPHIOLEPIS INDIAN INDIAN FLAX S 7 CRASSULA SIRIATA JADE PLANT S 8 CRASSULA ARGENTEA JADE PLANT S 9 HEIFROMELES ARBUTIFOLIA TOYON S 0 SEDUM DENDROIDEUM BUSH SEDUM SEDUM SEDUM 11 SENECIO BLUE CHALK S 2 CARPOBROTUS LEPTOPHYLLA ICE PLANT 3 C CASSIA CALIFORNICA GOLD MEDALLION TREE 4 ILIPU TREE S S 5 CALIFORNICA MANSA S 6 JUNCUS ACUTUS SSP. CALIFORNICA SPINY S 8 QUERCUS LUBATA VALLEY OAK S S 9 CUERESSUS ITALIAN CLADOCALYX SUGAR GUM S 20 EUCALYPTUS CLADOCALYX SUGAR GUM S 21 EUCALYPTUS RED FLOWENING S S 22 ILIPU TREE S</td><td>S LUIEA ICE PLANT G G II 4 PARTHENOCISSUS IERICUSPIDATA BOSTON G G III 5 PHORMIUM IERIAX IYY G G G III 6 PHORMIUM IERIAX NEW ZEALAND FLAX G G III 6 RHAPHIOLEPIS INDIAN INDIAN HAWTHORNE G G II 7 H ALQE SIRIATA CORAL ALOE G G II 8 CRASSULA ARGENTEA JADE PLANT G G II 9 G AREUTIFOLIA TOYON G G II 11 SEDUM BUSH SEDUM SEDUM I 11 SENECIO BLUE CHALK I I I 2 CARPOBROTUS ICE PLANT I I 3 C CASSIA LEPTOPHYLLA GOLD MEDALLION TREE G G II 4 C IIPUNA TIPU G G II 5 CALIFORNICA MANSA G G II 4 IIPU TREE G II II 5 CALAPORSIS YERBA G G II</td><td>S LUTEA ICE PLANT G G II 4 PARTHENOCISSUS INDIATA BOSTON G G III 5 PHORMIUM INDICSPIDATA NEW ZEALAND G G III 6 PHORMIUM INDICA NEW ZEALAND G G III 7 C STRIATA INDIAN ALQE G G III 8 CRASULA JADE G G III 9 ARGENTEA PLANT G G III 9 HETEROMELES ARBUTIFOLIA TOYON G G III 9 ARGENTEA PLANT IO,000 III 2,500 11 SEDUM BUSH SEDUM 2,500 III 0 SEDUM BLUE CHALK I10,000 10,000 11 MANDRALISCAE STICKS 10,000 2 CARPOBROTUS ICE PLANT IS,000 III 3 CASSIA GOLD MEDALLION G III 15,000 3 CALETOPHYLLA TREE G III 11 5 ALMENOPSIS YERBA G III 36 6</td><td>3LUTEAICE PLANT(9)(9)111.54PARTHENOCISSUS ILEICUSPIDATABOSTON(5)(5)1111.55PHORMIUM TELNAXNEW ZEALAND FLAX(5)(5)1111.56RHAPHIOLEPIS INDICAINDIAN HAWTHORNE(5)(5)1111.56RHAPHIOLEPIS INDICAINDIAN HAWTHORNE(5)(5)1111.58CRASSULA ARGENTEAJADE PLANT(5)(5)11159(2)HETEROMELES ARGENTEATOYON(5)(5)11159(2)SEDUM DENDROIDEUMBUSH SEDUM2,5002,50011SENECIO EDUNBLUE CHALK SEDUM10,00010,00011SENECIO EDUISBLUE CHALK STICKS10,000113(2)CARPOBROTUS EDUNISICE PLANT15,00011SENECIO EDULISBLUE CHALK STICKS11184(2)TIEU TIEUTREE(6)(5)1113(2)CARPOBROTUS EDUNISICE PLANT STICKS1136366TIEU TIEUTREE(6)(5)111367(4)GOLOPHYLLA TIEUTREE(5)111366(4)ULPUNA LEOPOHTLASAN DIEGO AKASH ELDER(5)111367(2)OUERCUS LEOPOHTSUGAR CUPRESS(6)(5)1115<!--</td--><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>J LUTEA ICE PLANT ICE PLA</td><td>3 LUTEA ICE PLANT 9 9 11 1.5 1 1.5 1 4 PARTHENCISSUS BOSTON III 1.5 1 4 4 5 PHOFMILW NEW SCALAND III 1.5 1 0.25 4 6 BIAPHICOLSUS INDICA HAWTHORNE III 0.25 - 4 6 BIAPHICOLEPIS INDICA HAWTHORNE III 1.5 3 - - 7 Φ Stitiata CORAL III 5 3 - - 8 $MAC CASSULA JODE III 5 3 - - 9 G Algentie PLANT III 5 3 - - 10 MARGENTEA PLANT III 5 3 - - 11 SEEDIM BUSH 2,500 - 6 B 3 LB$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>2 LITEA ICE PLANT 3 1 1.3 1 1 1.4 1.5 1</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>Image: Second Heat Products in the Plant of the</td><td>J LIEEA TGE FLANT G <</td><td>Image: Second States Image: Se</td><td>3 ULICA ICE PLANT 0 0 1 1.5 1 0 0 1 1.5 1 0 0 1 0 10<!--</td--></td></td></td<>	S LUTEA ICE PLANT S 4 PARTHENOCISSUS IRLICUSPIDATA BOSTON S 5 PHORMIUM IRLICUSPIDATA NEW ZEALAND FLAX S 6 RHAPHIOLEPIS INDIAN NEW ZEALAND FLAX S 6 RHAPHIOLEPIS INDIAN INDIAN FLAX S 7 CRASSULA SIRIATA JADE PLANT S 8 CRASSULA ARGENTEA JADE PLANT S 9 HEIFROMELES ARBUTIFOLIA TOYON S 0 SEDUM DENDROIDEUM BUSH SEDUM SEDUM SEDUM 11 SENECIO BLUE CHALK S 2 CARPOBROTUS LEPTOPHYLLA ICE PLANT 3 C CASSIA CALIFORNICA GOLD MEDALLION TREE 4 ILIPU TREE S S 5 CALIFORNICA MANSA S 6 JUNCUS ACUTUS SSP. CALIFORNICA SPINY S 8 QUERCUS LUBATA VALLEY OAK S S 9 CUERESSUS ITALIAN CLADOCALYX SUGAR GUM S 20 EUCALYPTUS CLADOCALYX SUGAR GUM S 21 EUCALYPTUS RED FLOWENING S S 22 ILIPU TREE S	S LUIEA ICE PLANT G G II 4 PARTHENOCISSUS IERICUSPIDATA BOSTON G G III 5 PHORMIUM IERIAX IYY G G G III 6 PHORMIUM IERIAX NEW ZEALAND FLAX G G III 6 RHAPHIOLEPIS INDIAN INDIAN HAWTHORNE G G II 7 H ALQE SIRIATA CORAL ALOE G G II 8 CRASSULA ARGENTEA JADE PLANT G G II 9 G AREUTIFOLIA TOYON G G II 11 SEDUM BUSH SEDUM SEDUM I 11 SENECIO BLUE CHALK I I I 2 CARPOBROTUS ICE PLANT I I 3 C CASSIA LEPTOPHYLLA GOLD MEDALLION TREE G G II 4 C IIPUNA TIPU G G II 5 CALIFORNICA MANSA G G II 4 IIPU TREE G II II 5 CALAPORSIS YERBA G G II	S LUTEA ICE PLANT G G II 4 PARTHENOCISSUS INDIATA BOSTON G G III 5 PHORMIUM INDICSPIDATA NEW ZEALAND G G III 6 PHORMIUM INDICA NEW ZEALAND G G III 7 C STRIATA INDIAN ALQE G G III 8 CRASULA JADE G G III 9 ARGENTEA PLANT G G III 9 HETEROMELES ARBUTIFOLIA TOYON G G III 9 ARGENTEA PLANT IO,000 III 2,500 11 SEDUM BUSH SEDUM 2,500 III 0 SEDUM BLUE CHALK I10,000 10,000 11 MANDRALISCAE STICKS 10,000 2 CARPOBROTUS ICE PLANT IS,000 III 3 CASSIA GOLD MEDALLION G III 15,000 3 CALETOPHYLLA TREE G III 11 5 ALMENOPSIS YERBA G III 36 6	3LUTEAICE PLANT(9)(9)111.54PARTHENOCISSUS ILEICUSPIDATABOSTON(5)(5)1111.55PHORMIUM TELNAXNEW ZEALAND FLAX(5)(5)1111.56RHAPHIOLEPIS INDICAINDIAN HAWTHORNE(5)(5)1111.56RHAPHIOLEPIS INDICAINDIAN HAWTHORNE(5)(5)1111.58CRASSULA ARGENTEAJADE PLANT(5)(5)11159(2)HETEROMELES ARGENTEATOYON(5)(5)11159(2)SEDUM DENDROIDEUMBUSH SEDUM2,5002,50011SENECIO EDUNBLUE CHALK SEDUM10,00010,00011SENECIO EDUISBLUE CHALK STICKS10,000113(2)CARPOBROTUS EDUNISICE PLANT15,00011SENECIO EDULISBLUE CHALK STICKS11184(2)TIEU TIEUTREE(6)(5)1113(2)CARPOBROTUS EDUNISICE PLANT STICKS1136366TIEU TIEUTREE(6)(5)111367(4)GOLOPHYLLA TIEUTREE(5)111366(4)ULPUNA LEOPOHTLASAN DIEGO AKASH ELDER(5)111367(2)OUERCUS LEOPOHTSUGAR CUPRESS(6)(5)1115 </td <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>J LUTEA ICE PLANT ICE PLA</td> <td>3 LUTEA ICE PLANT 9 9 11 1.5 1 1.5 1 4 PARTHENCISSUS BOSTON III 1.5 1 4 4 5 PHOFMILW NEW SCALAND III 1.5 1 0.25 4 6 BIAPHICOLSUS INDICA HAWTHORNE III 0.25 - 4 6 BIAPHICOLEPIS INDICA HAWTHORNE III 1.5 3 - - 7 Φ Stitiata CORAL III 5 3 - - 8 $MAC CASSULA JODE III 5 3 - - 9 G Algentie PLANT III 5 3 - - 10 MARGENTEA PLANT III 5 3 - - 11 SEEDIM BUSH 2,500 - 6 B 3 LB$</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>2 LITEA ICE PLANT 3 1 1.3 1 1 1.4 1.5 1</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>Image: Second Heat Products in the Plant of the</td> <td>J LIEEA TGE FLANT G <</td> <td>Image: Second States Image: Se</td> <td>3 ULICA ICE PLANT 0 0 1 1.5 1 0 0 1 1.5 1 0 0 1 0 10<!--</td--></td>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	J LUTEA ICE PLANT ICE PLA	3 LUTEA ICE PLANT 9 9 11 1.5 1 1.5 1 4 PARTHENCISSUS BOSTON III 1.5 1 4 4 5 PHOFMILW NEW SCALAND III 1.5 1 0.25 4 6 BIAPHICOLSUS INDICA HAWTHORNE III 0.25 - 4 6 BIAPHICOLEPIS INDICA HAWTHORNE III 1.5 3 - - 7 Φ Stitiata CORAL III 5 3 - - 8 $MAC CASSULA JODE III 5 3 - - 9 G Algentie PLANT III 5 3 - - 10 MARGENTEA PLANT III 5 3 - - 11 SEEDIM BUSH 2,500 - 6 B 3 LB $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2 LITEA ICE PLANT 3 1 1.3 1 1 1.4 1.5 1	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Image: Second Heat Products in the Plant of the	J LIEEA TGE FLANT G <	Image: Second States Image: Se	3 ULICA ICE PLANT 0 0 1 1.5 1 0 0 1 1.5 1 0 0 1 0 10 </td

PLANT LEGEND

BOR	DER LAST REVISED 7/2/2010	USERNAME =>s111271 DGN FILE => Example-C2_PlantLegend_Sample.dgn	RELATIVE BORDER SCALE IS IN INCHES	UNIT 0000

RELE	ASED	04/16	/ 2020

	Dist	COUNTY	RO	UTE		MILES PROJECT	SHEET No.	TOTAL SHEETS	0
									2020
	PLA THE OR A THE	GENTS SHA	OVAL D CALIFORNI LL NOT BL OR COMPLI	ATE 1A OR 11 E RESPO ETENESS	CHITECT S OFFICERS NSIBLE FOR OF SCANNE		NDSCAPE License Signature newal Date Date OF (AUS	RECEIPTION TO AN AND AND AND AND AND AND AND AND AND	SED 04/23/2
II	NG I	DISTAI	NCE F	ROM	:				EASI
			DITCH	DITCH		REMAR	ĸs		- RELE

PLANT LEGEND

EXAMPLE C2 PLANT LEGEND SAMPLE

DATE PLOTTED => 23-APR-2020 TIME PLOTTED => 11:41

LAST REVISION 1 00-00-00

		PLANTING QUANTITIES Planting quantity tables show the planting bid items a quantities used on the project. Units and totals shown the planting quantity tables must match the Engineer's Estimate.	ind i on s															
		Planting quantity tables are divided into two parts. The first table quantifies plants by botanical/common name The second table is used when the project has bid item quantified by area. Use one or both tables as required	he e. ms d.															
ED BY	REVISED	If both tables are used, the plant basin subtotals for • Wood mulch • Soil amendment • Iron sulfate • Slow-release fertilizer				on the	; to mato e proiec	ch the pl t.Do not	lumns in lant grou include leave it	os and o ⁻ empty co	ther bid Dumns. I	items us f there	sed					
REVISED	DATE R	• Organic fertilizer are added to the area quantities resulting in the sums shown on the Engineer's Estimate.	s															
		See "Summary of Quantities" narrative in							GROL			:5					PLAN	
		See "Summary of Quantities" narrative in Section 2-2.19 and Generic Summary of Quantities example sheet for additional information about standards for tables, e.g. text, line weight, etc.	BOTANICAL NAME	COMMON NAME	A	в	С	F	н	ĸ	M	U	SOD	TRANSPLANT	T LIZER	MENT	IRON SULFATE	Щ
		Library to generate quantity tables. If using Excel files, place the completed electronic files in the Resident Engineer's file for use during construction.			EA	EA	EA	EA	EA	EA	EA	EA	SQYI				T IRON SULFA	
											EA		Sun					
TED- BY	ΒY	On this table, edit the number of rows to match the number of rows in the Plant Legend. List the													<u> </u>	<u> </u>		<u> </u>
CALCULATED- DESIGNED BY	CHECKED	plant species in the same order.													+	<u> </u>	<u> </u>	
CA	히														<u> </u>			
CT	·		PLANT	BASIN SUBTOTAL											<u> </u>			
ARCHITECT				TOTAL													<u> </u>	<u> </u>
				Include this to has planting ar items shown he	reas with	the bid					PLA	NTI	NG	ARI	EA			
LAND				this table.												CUL	TIVAT	
SENIOR LANDSCAPE											HEET No.			WEED GERMINATION	TIVATION	DMENT	ATE	SLOW-RELEASE FERTILIZER
DEPARTMENT OF TRANSPORTATION															CUL	SOIL AMENDMENT		
TRANSPO		MANUAL													SQYD	CY	LB	LB
T 0F 1		MA		If the material for so												<u> </u>	<u> </u>	<u> </u>
RTMEN.		NO		for cultivation area is the plant basins, add r circled numbers in the	otes and table in	correspo the mate	that in onding ching									<u> </u>	<u> </u>	
DEPA		RATION		column heading. Example:												<u> </u>		
- AIV	ال	: PAR		NOTES: (1) Soil amendment for (2) Wood mulch for cult					PLANT									
LIFORN		PREPA		(2) wood indich for curr			(X		PLA	NI BA	ASIN	SUBTO TC	DTAL					
STATE OF CALIFORNIA	Et altrars	S																
ATE (4 C		SCAPE, IRRIGATIO	N AND PLANT	ING	EXA	MPLE	E D1	, PL	ANT	ING	QUAI	NTIT	IES	INS	JTRU	CTI	ONS
SI	4																	

BORDER LAST REVISED 7/2/2010

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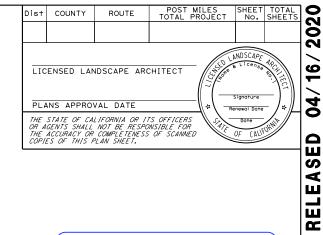
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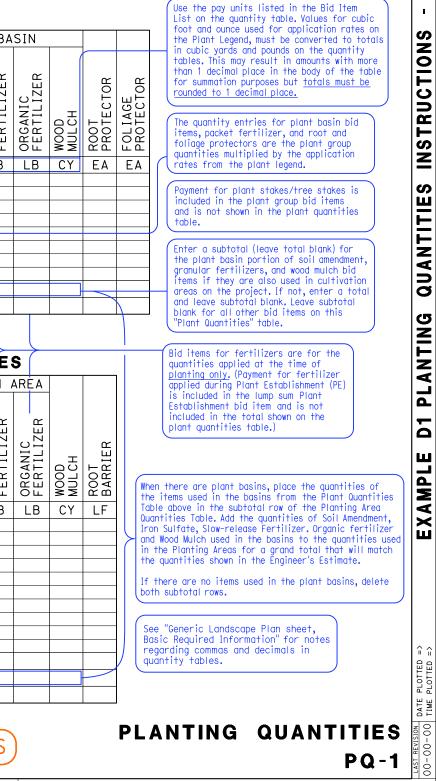
USERNAME => DGN FILE => RELATIVE BORDER SCALE IS IN INCHES

UNIT 0000

SUPERSEDES EXAMPLE RELEASED 07/21/2017



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PLANT	QUANTITIES	
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				PLANT	GROUP							BASIN		
BOTANICAL NAME	COMMON NAME	А	В	F	Н	к	М	U	PACKET FERTILIZER	SOIL AMENDMENT	SLOW-RELEASE FERTILIZER	WOOD MUL CH	ROOT PROTECTOR	FOL IAGE PROTECTOR
		ΕA	ΕA	EA		ΕA	ΕA	ΕA	ΕA	CY	LB	CY	ΕA	ΕA
ACACIA REDOLENS LOW BOY'	PROSTRATE ACACIA	8,210							8,210			492.60		
BACCHARIS PILULARIS PIGEON POINT'	DWARF COYOTE BRUSH	3,350							3,350			201.00		
IALEPHORA LUTEA	ROCKY POINT ICE PLANT	3,840							3,840			230.40		
PARTHENOCISSUS FRICUSPIDATA	BOSTON IVY	1,542							1,542			92.52		
PHORMIUM FENAX	NEW ZEALAND FLAX	60								0.60				
RHAPHIOLEPIS NDICA	INDIAN HAWTHORNE	135								1.35				
ALOE STRIATA	CORAL		405						1,215			24.30		
CRASSULA ARGENTEA	JADE PLANT		224						672			44.80		
HETEROMELES ARBUTIFOLIA	TOYON		197						591			39.40		
SEDUM DENDROIDEUM	BUSH SEDUM			30,340							20			
SENECIO MANDRALISCAE	BLUE CHALK STICKS			125,790							80			
CARPOBROTUS EDULIS	ICE PLANT				17,440						120			
CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE					2			24			0.60		
TIPUANA TIPU	TIPU TREE					4			48			1.20		
ANEMOPSIS CALIFORNICA	YERBA MANSA						666							
VA HAYESIANA	SAN DIEGO MARSH ELDER						666							
JUNCUS ACUTUS SSP. LEOPOLDII"	SPINY RUSH						666							
QUERCUS LOBATA	VALLEY OAK						12		12				12	1
CUPRESSUS SEMPERVIRENS	ITALIAN CYPRESS							36	180			7.20		
	SUGAR							10	50			2.00		
EUCALYPTUS FICIFOLIA	RED FLOWERING GUM							35	175			7.00		
TIPUANA TIPU	TIPU TREE							92	460			18.40		
	_ANT BASIN SUBTOTAL									1.98	220	1161.42		
	TOTAL	17,137	826	156,130	17,440	6	2,010	173	20,369				12	12

SHE NUM

PP-1 PP-2 PP-3 PP-4 PP-5 PP-6 PP-7 PP-8 PP-9 PP-10 PP-11 PLANTIN SUBTO PLANT B SUBTO TO

CALCULATED-DESIGNED BY CHECKED ARCHITECT SENIOR LANDSCAPE DEPARTMENT OF TRANSPORTATION х 1 STATE OF CALIFORNIA Et altars ×

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LANDSCAPE, IRRIGATION AND PLANTING EXAMPLE D2, PLANTING QUANTITIES SAMPLE

BORDER LAST REVISED 7/2/2010

USERNAME => DGN FILE => RELATIVE BORDER SCALE IS IN INCHES

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UNIT 0000

SUPERSEDES EXAMPLE RELEASED 07/21/2017

Dis†	COUNTY	ROUTE		MILES PROJECT	SHEET No.	TOTAL SHEETS
	ENSED LAN	IDSCAPE ARC	CHITECT		NDSCAPE License	ABCHITECT #
OR A THE	GENTS SHALL	LIFORNIA OR II NOT BE RESPO COMPLETENESS PLAN SHEET.	NSIBLE FO	9 415	Dote OF CALIF	OFFILT

PLANTING AREA QUANTITIES

		CULTIN		
IEET MBER	WEED GERMINATION	SOIL AMENDMENT	SLOW-RELEASE FERTILIZER	wood MULCH
	SQYD	CY	LB	CY
	6,193			188
	15,971			4
	15,928			
	2,556	6	75	83
	5,479	4	50	78
	2,011			26
	3,494			140
	2,838			
		6	80	292
				177
	1,353			
NG AREA OTAL	55,823	16	205	988
NG AREA OTAL BASIN TAL		1.98	220	1161.42
DTAL	55,823	18	425	2149.4
		1		

Notice that converting cubic feet and ounces from the Plant Legend to cubic yards and pounds on the Plant Quantities Tables can result in amounts with 2 decimal places in the body of the tables. Total sums must be rounded to no more than 1 decimal place and match the Bid Item quantity in the Engineer's Estimate.

See "Generic Landscape Plan sheet, Basic Required Information" for notes regarding commas and decimals in quantity tables.



PLANTING QUANTITIES

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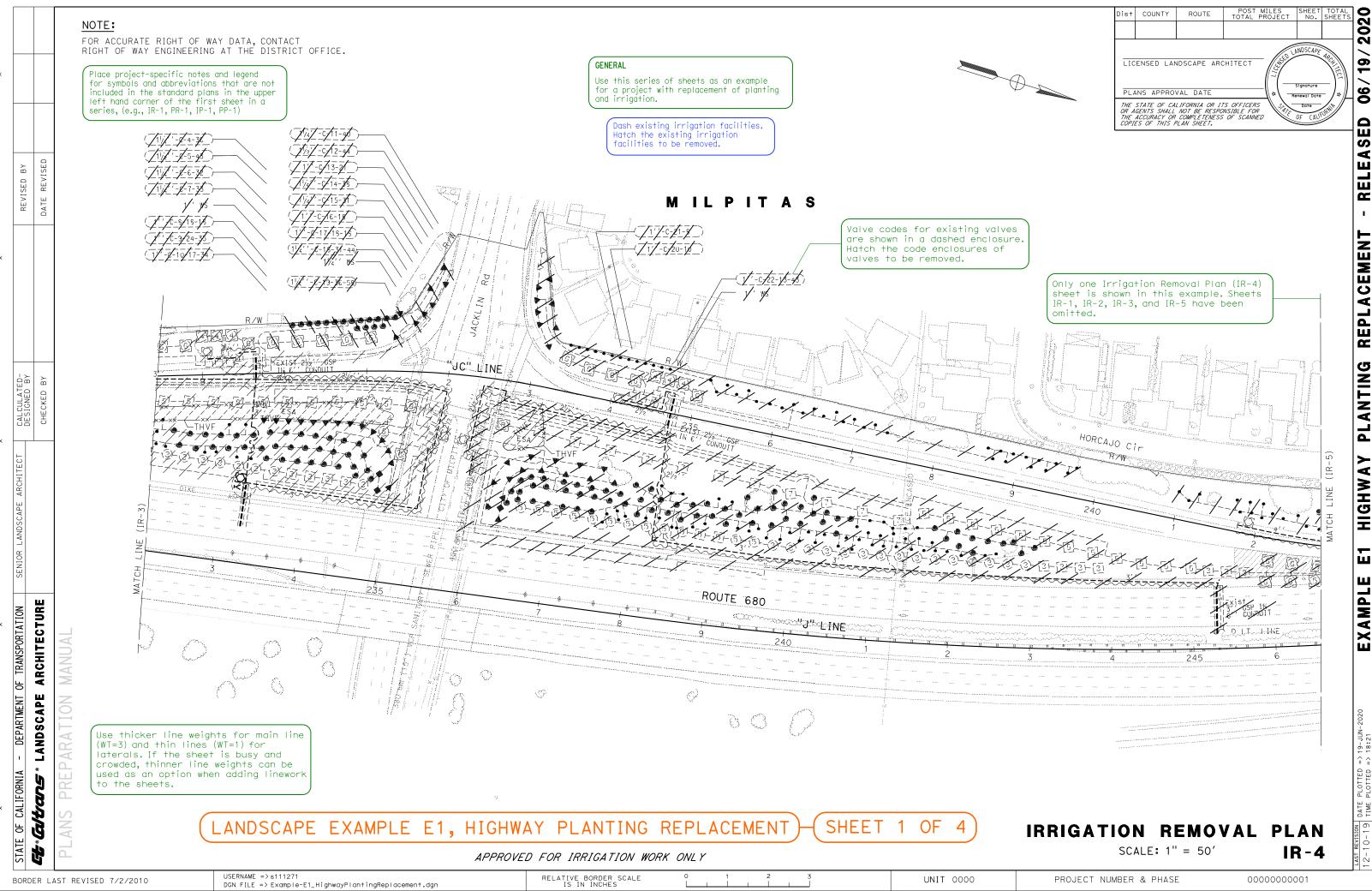
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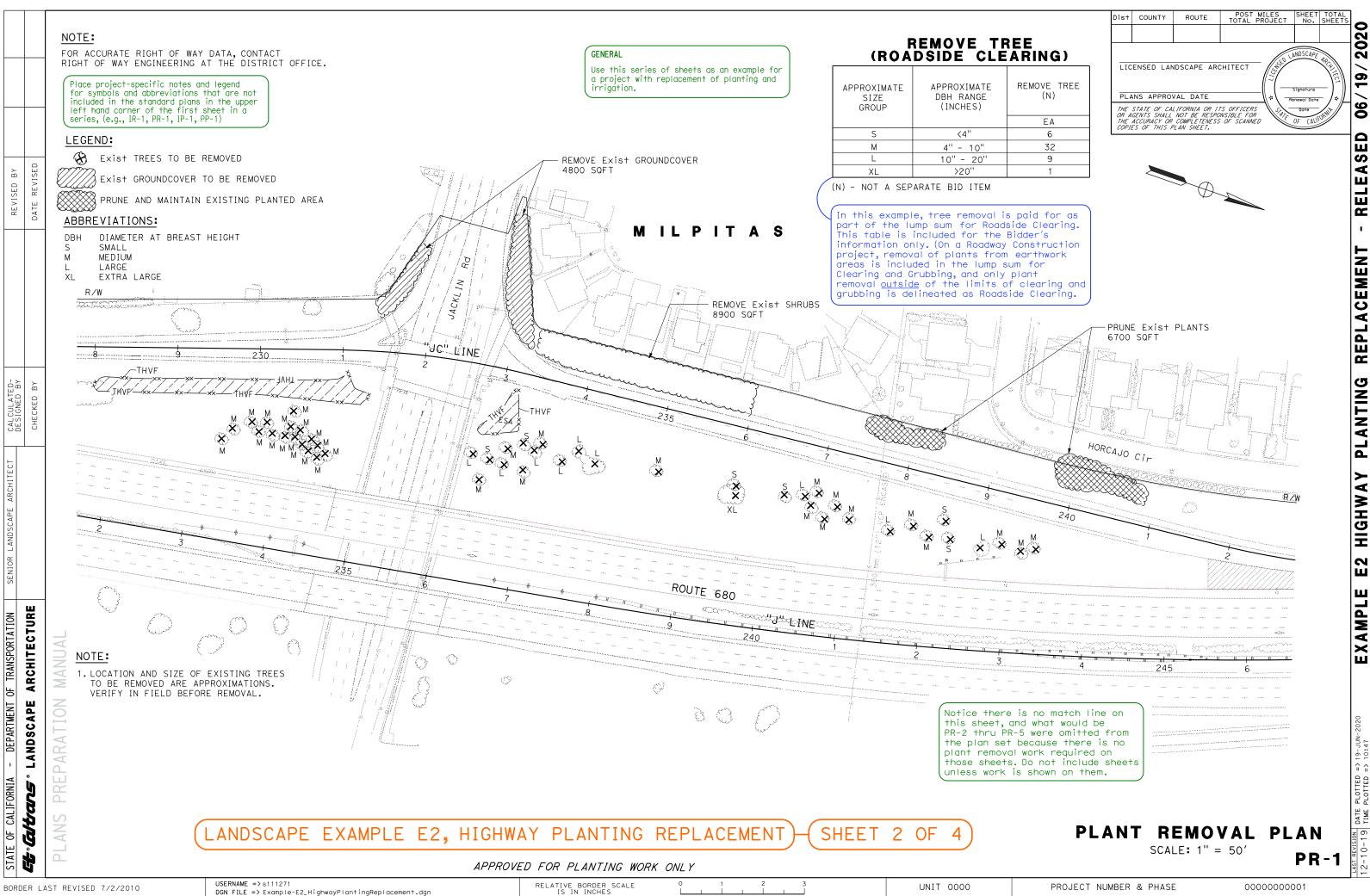
DATE TIME

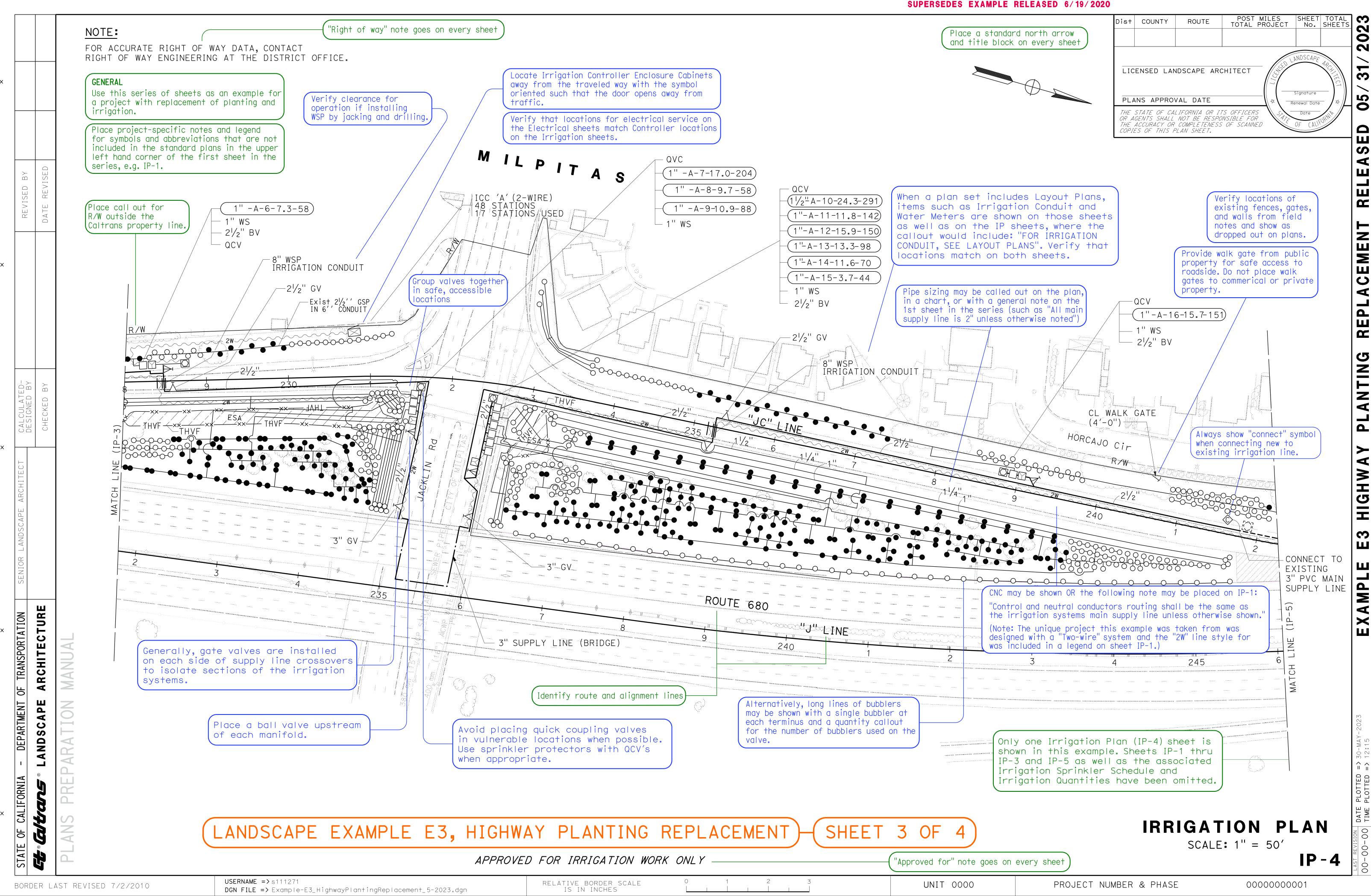
PROJECT NUMBER & PHASE

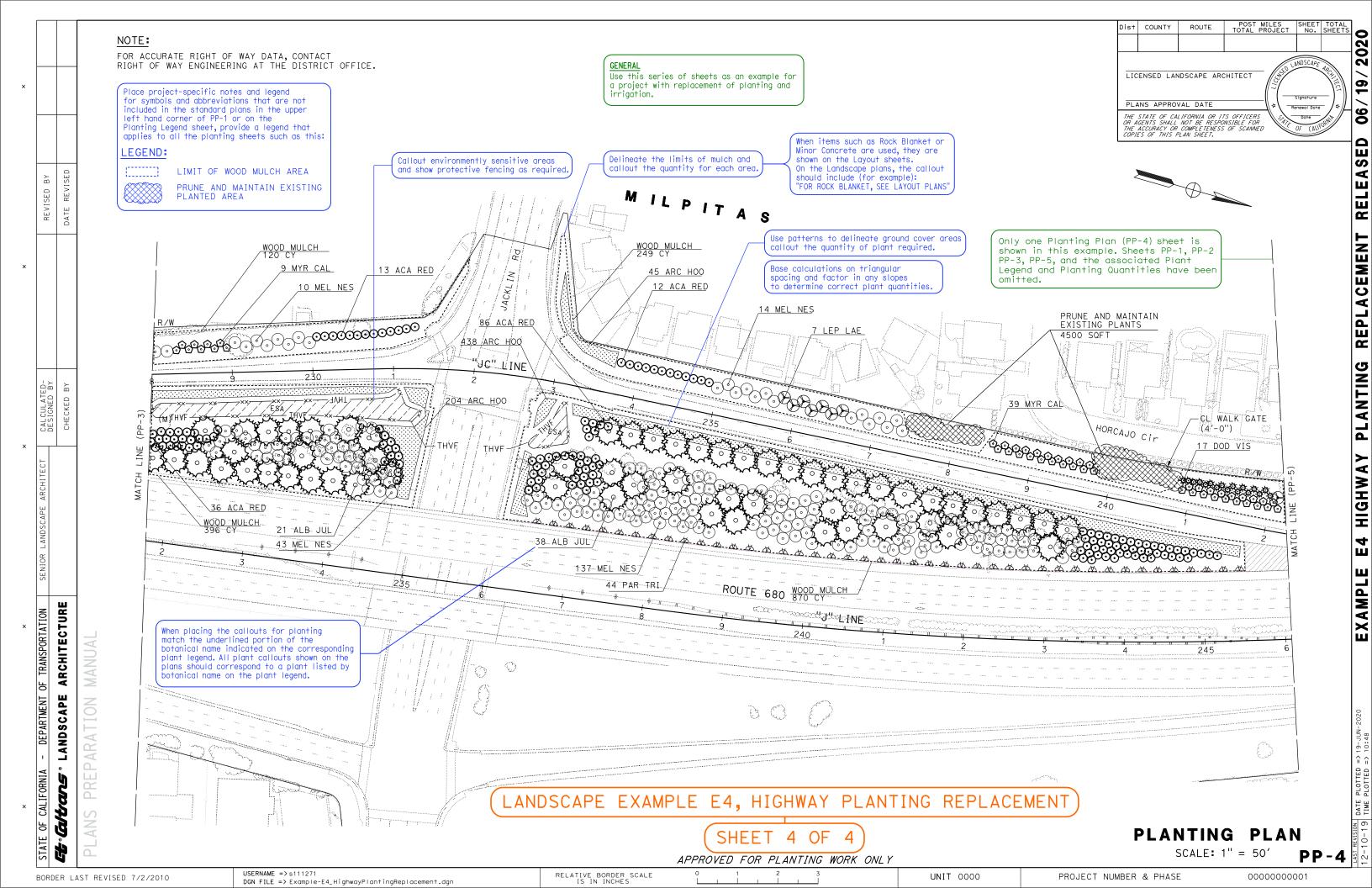
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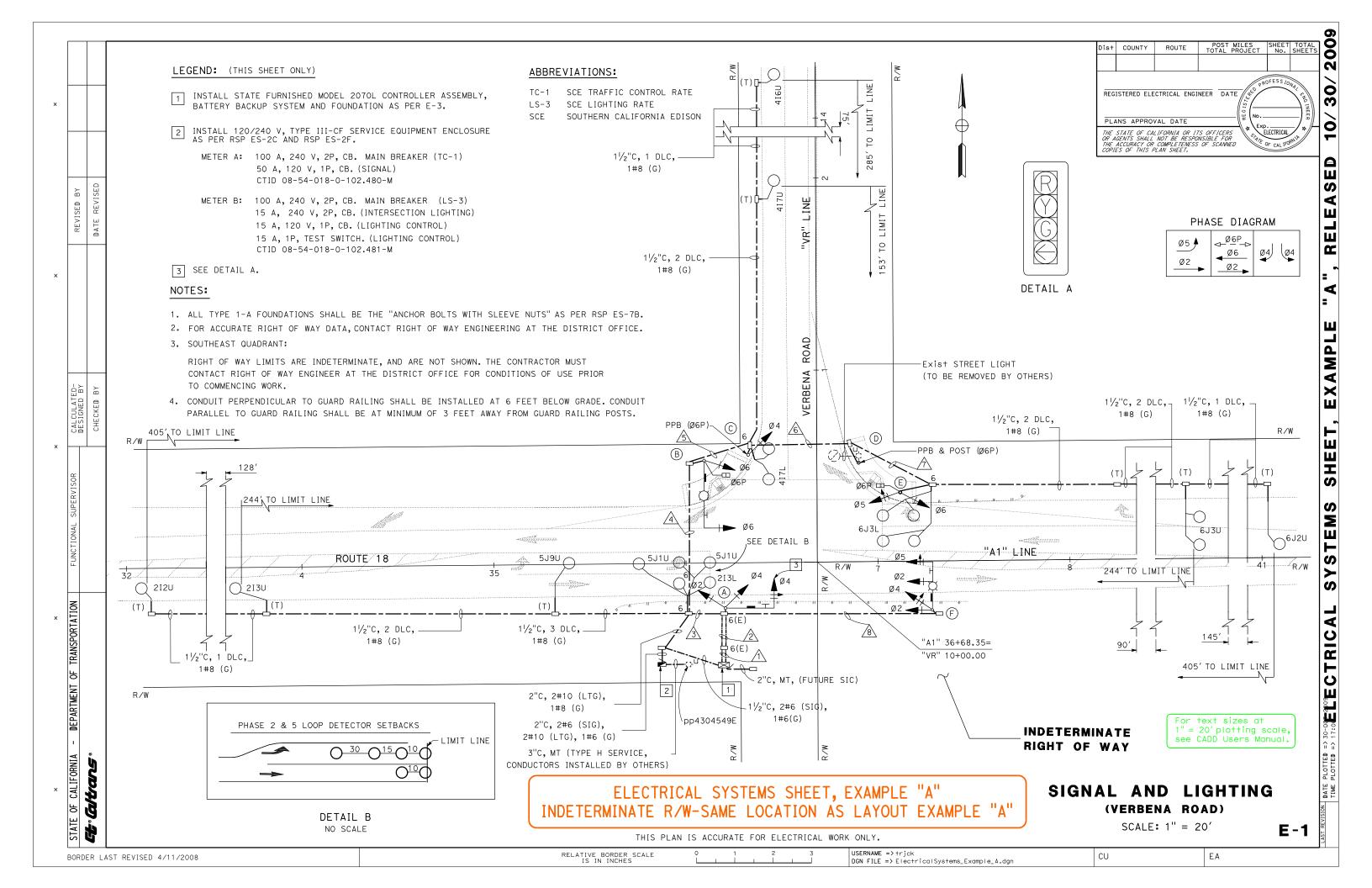
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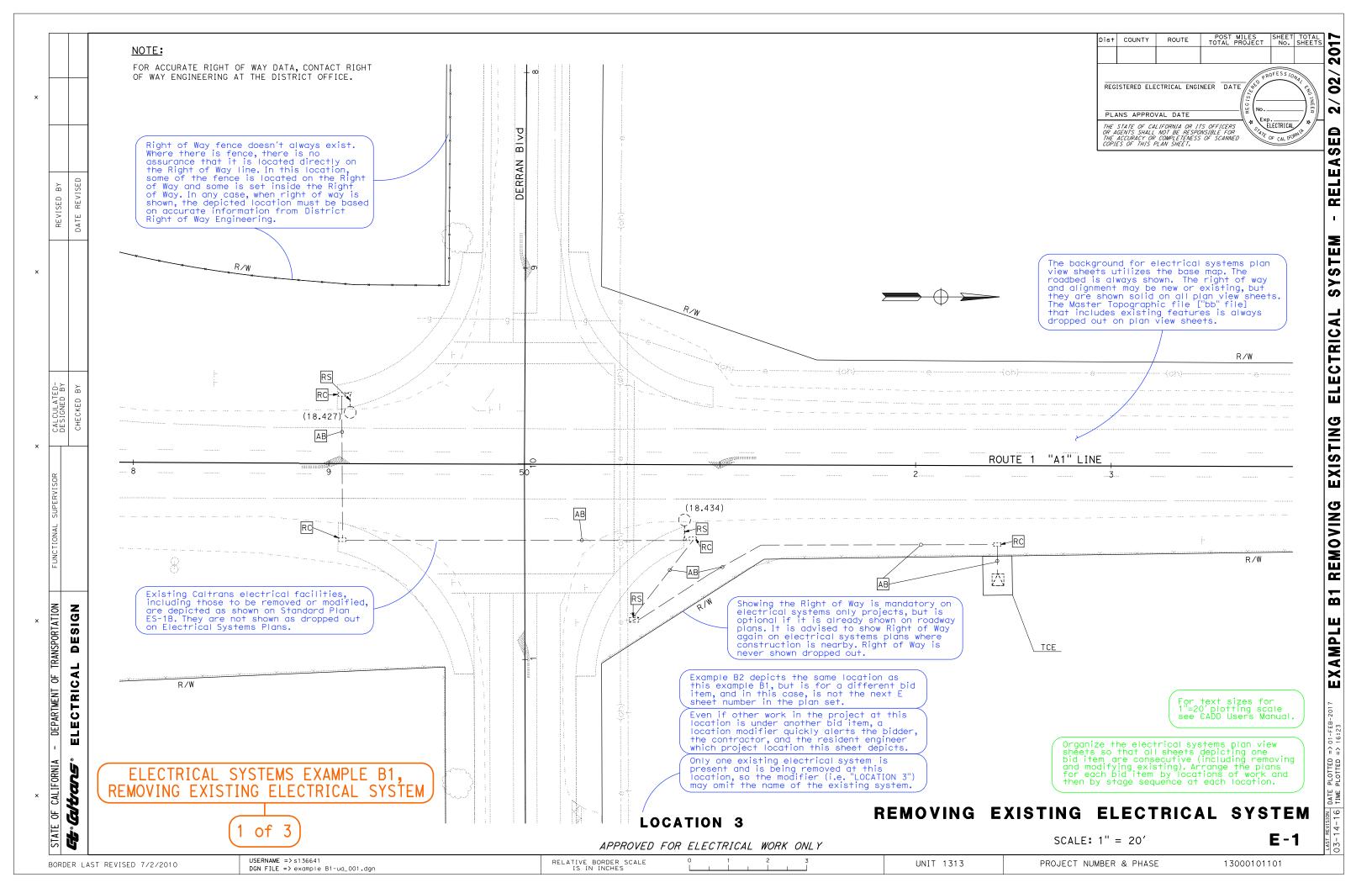


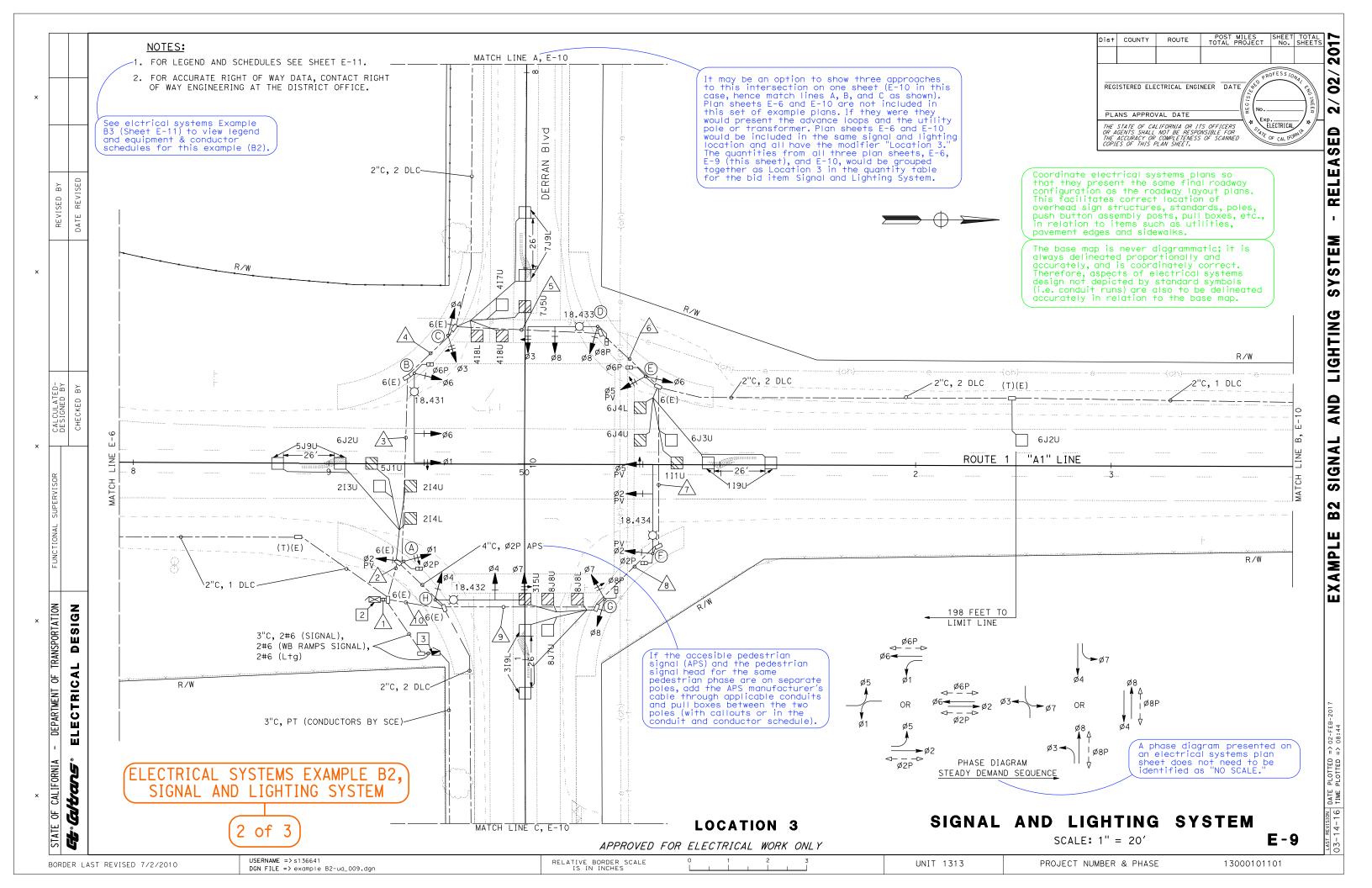


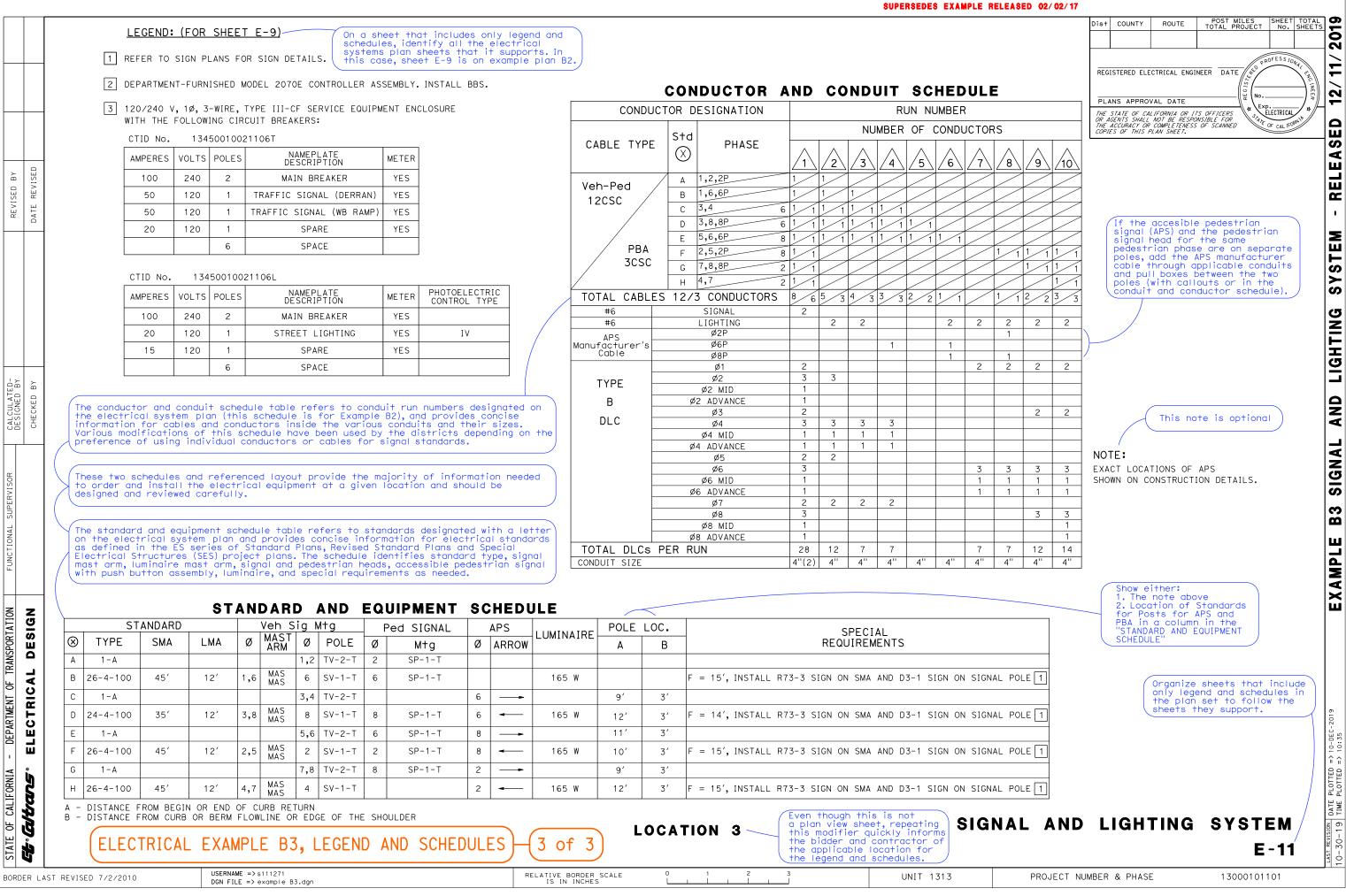


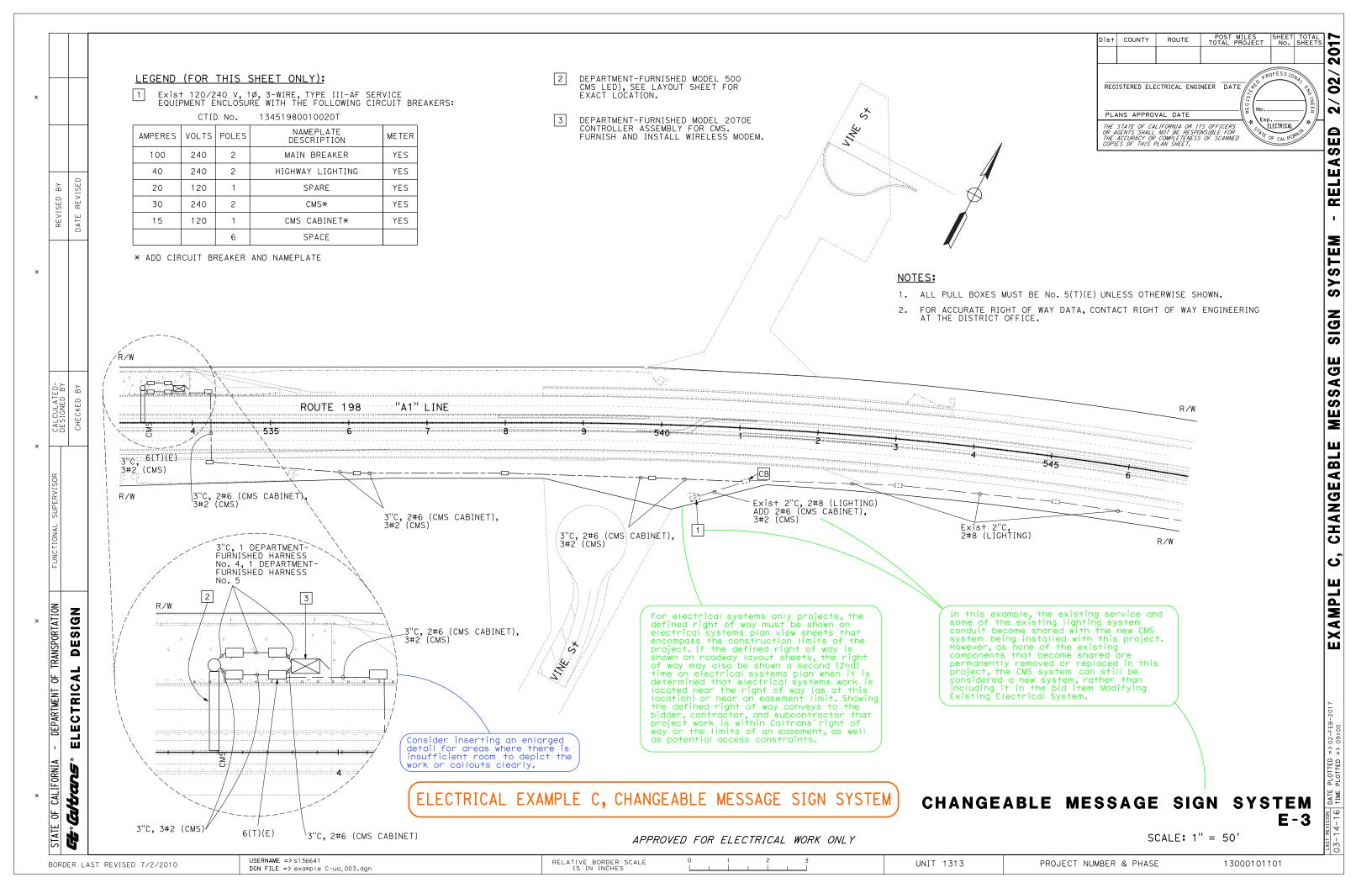


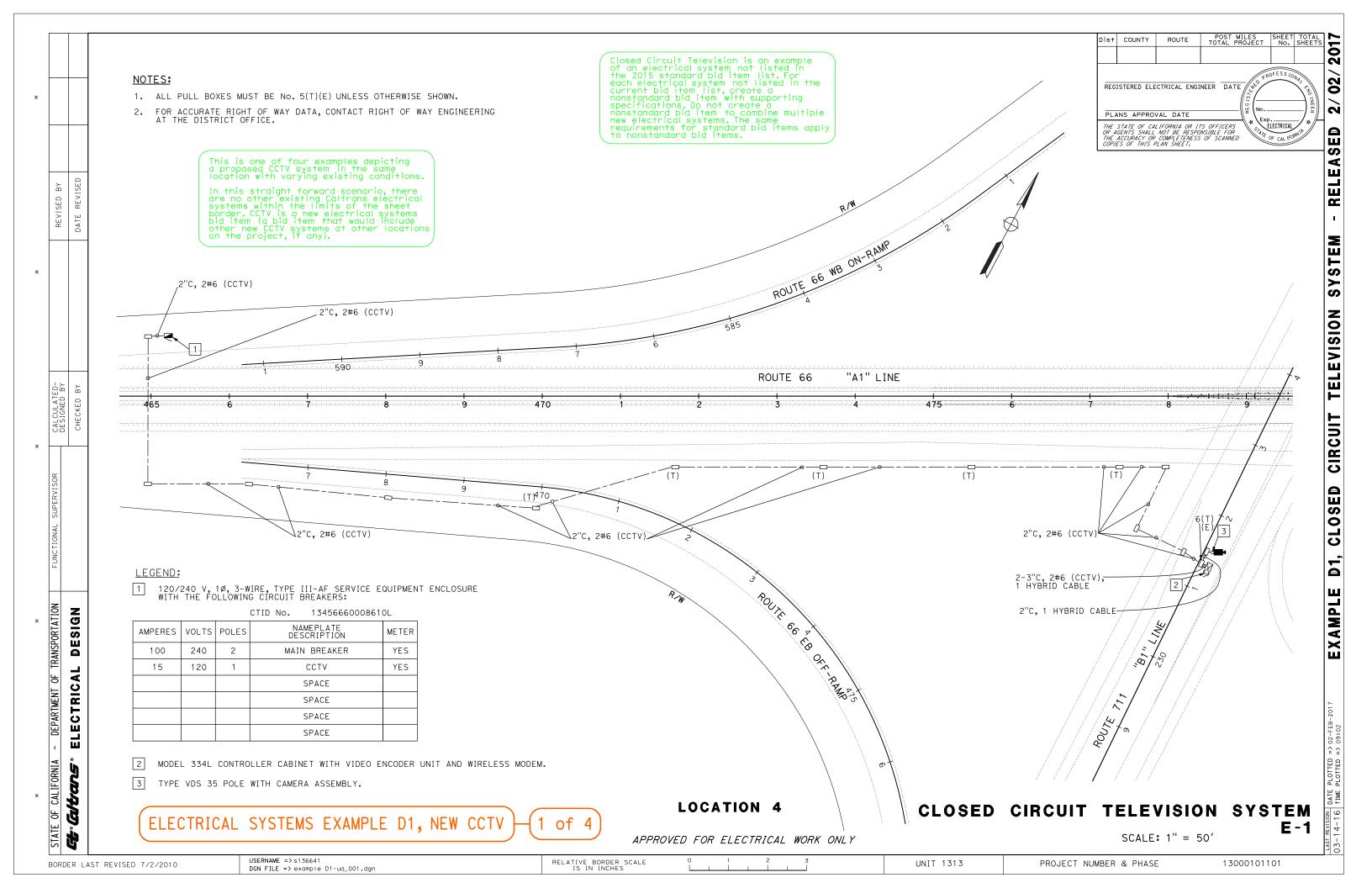


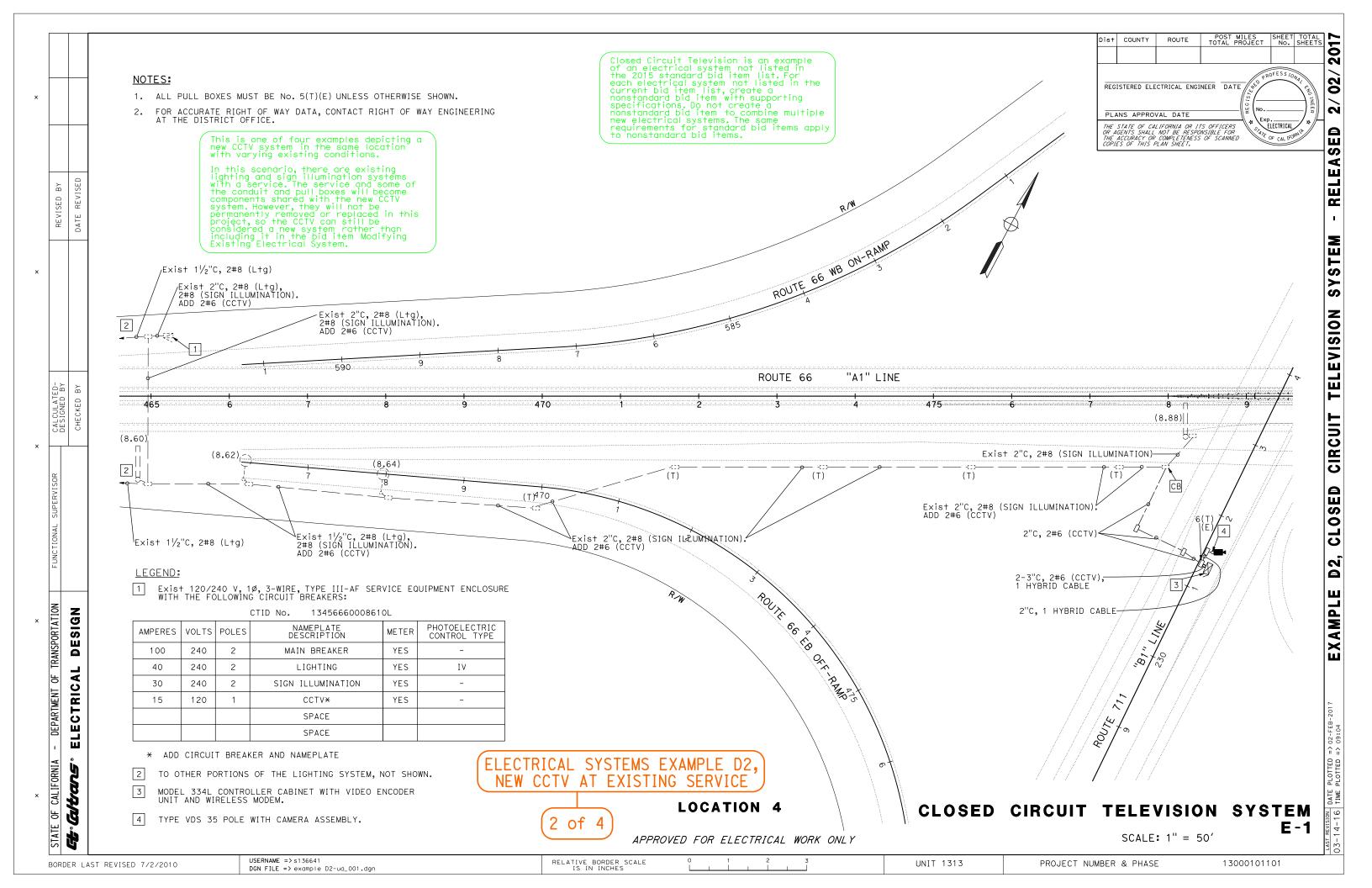


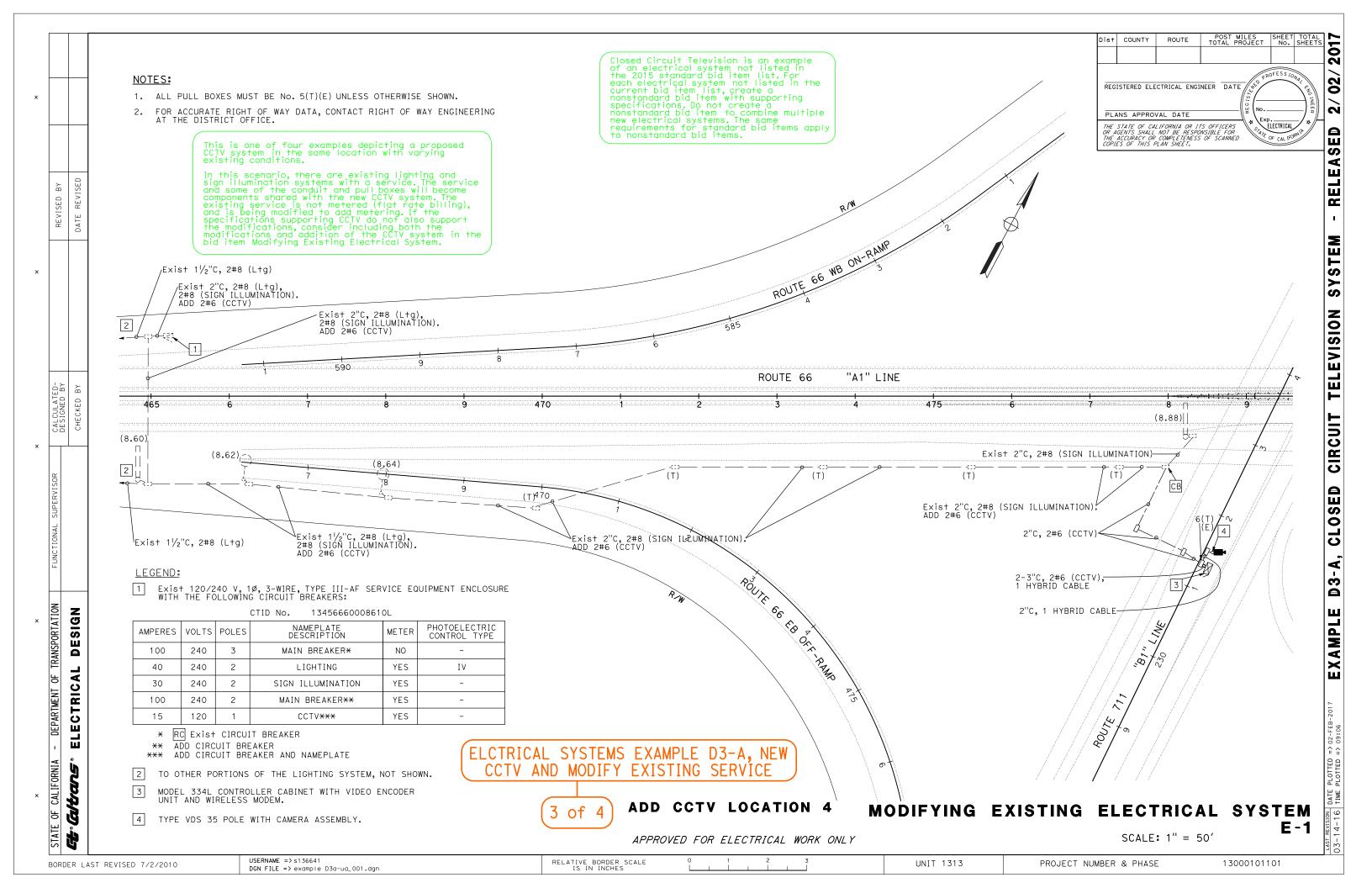


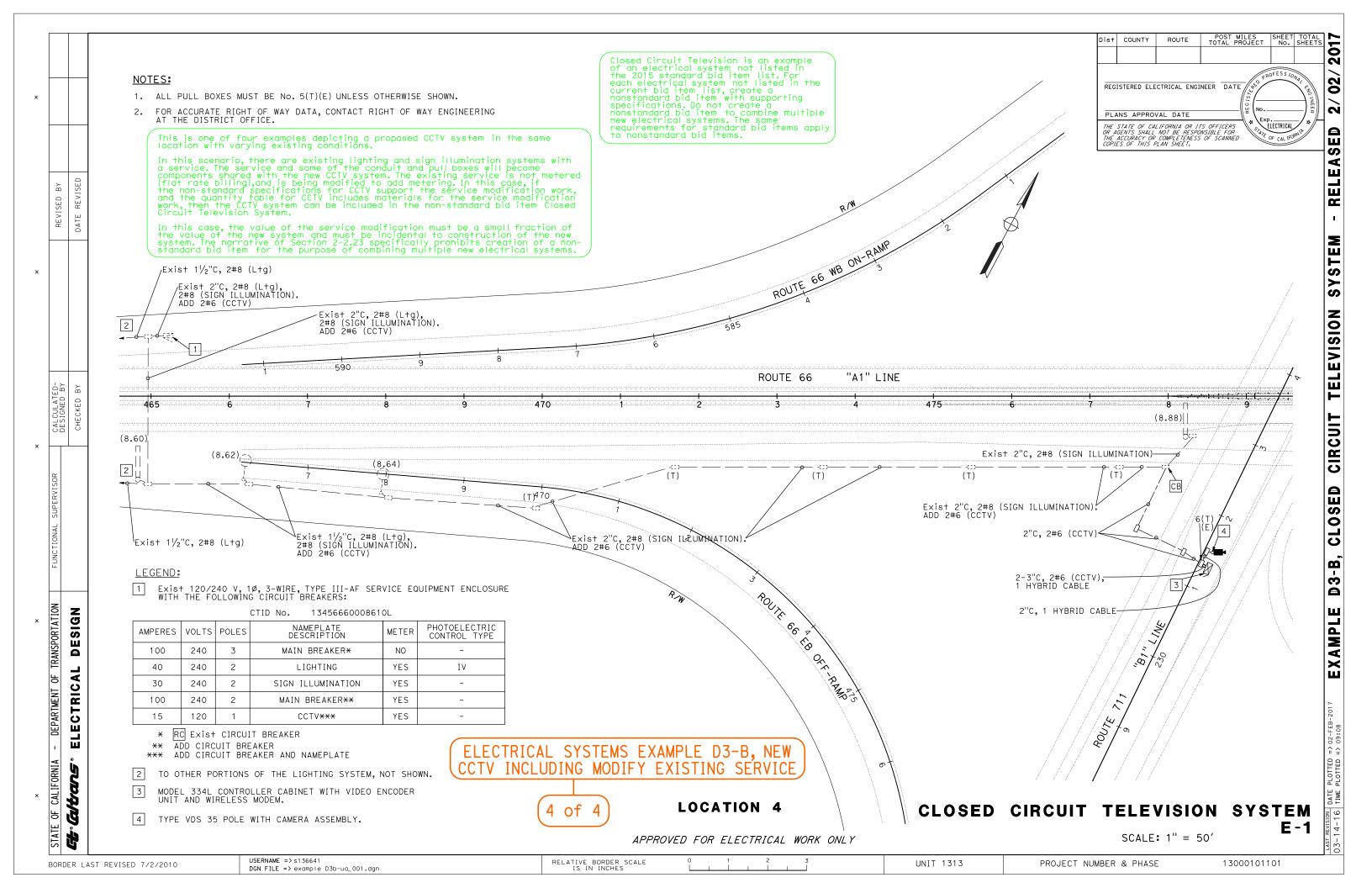


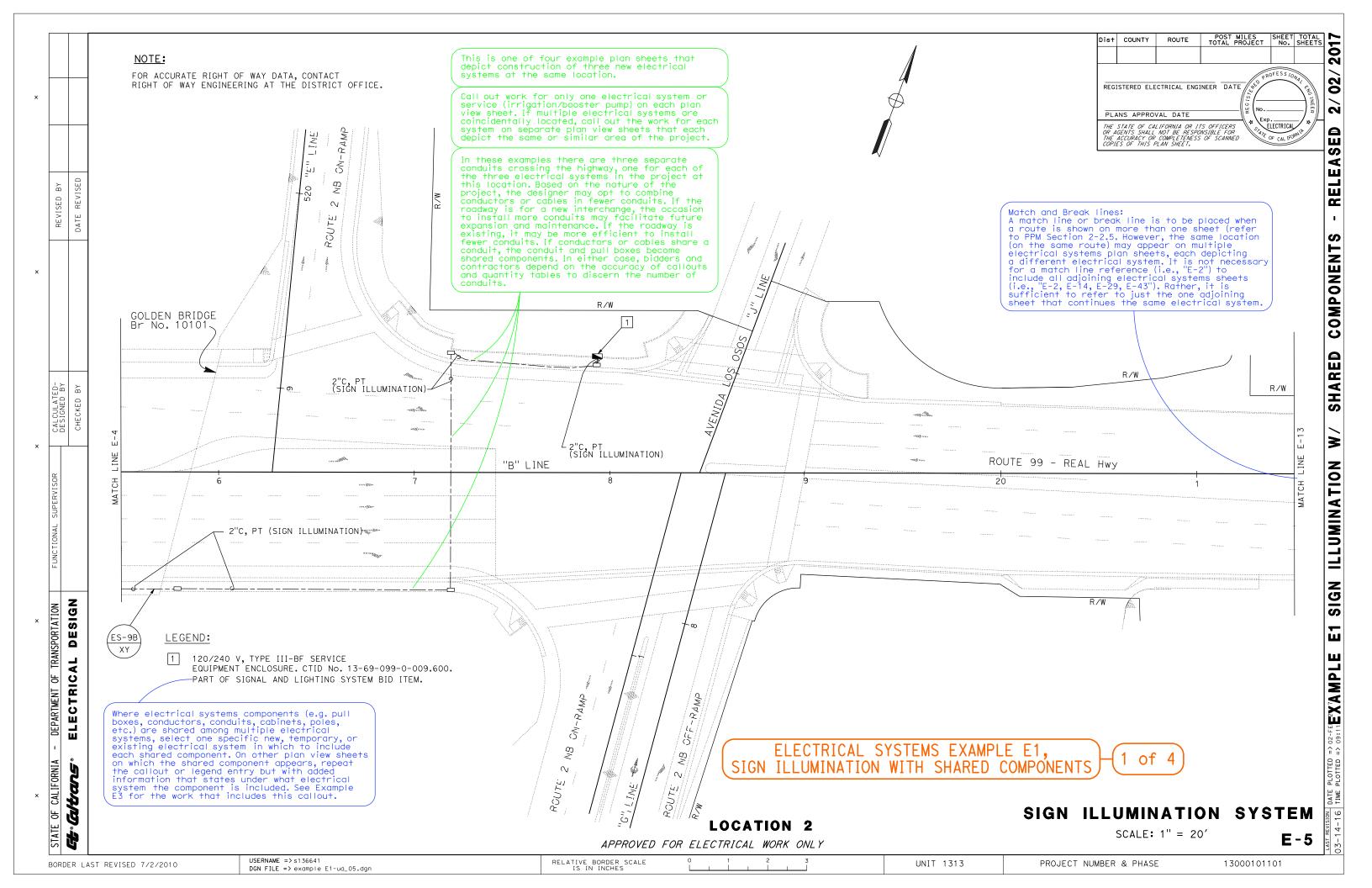


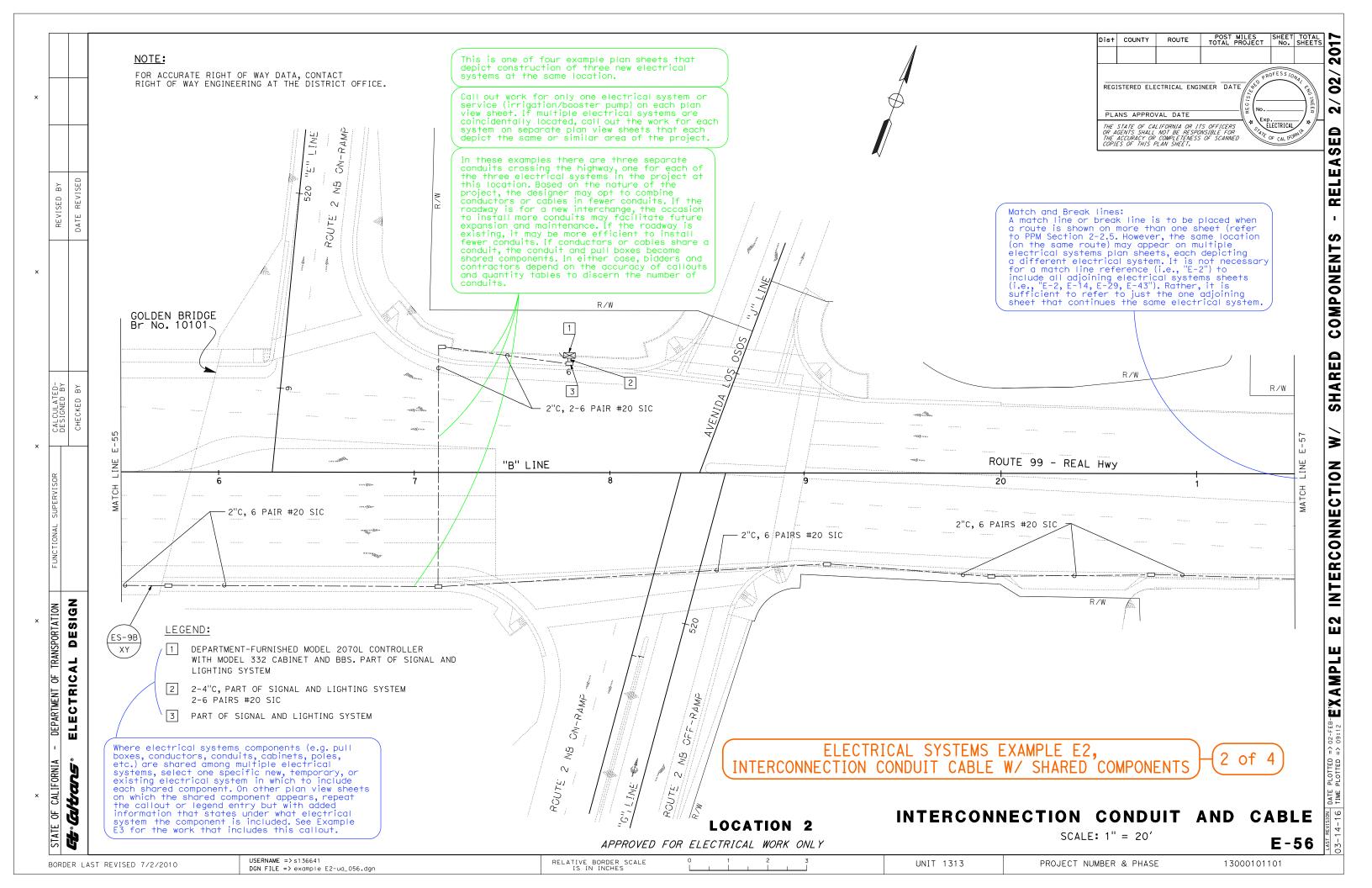


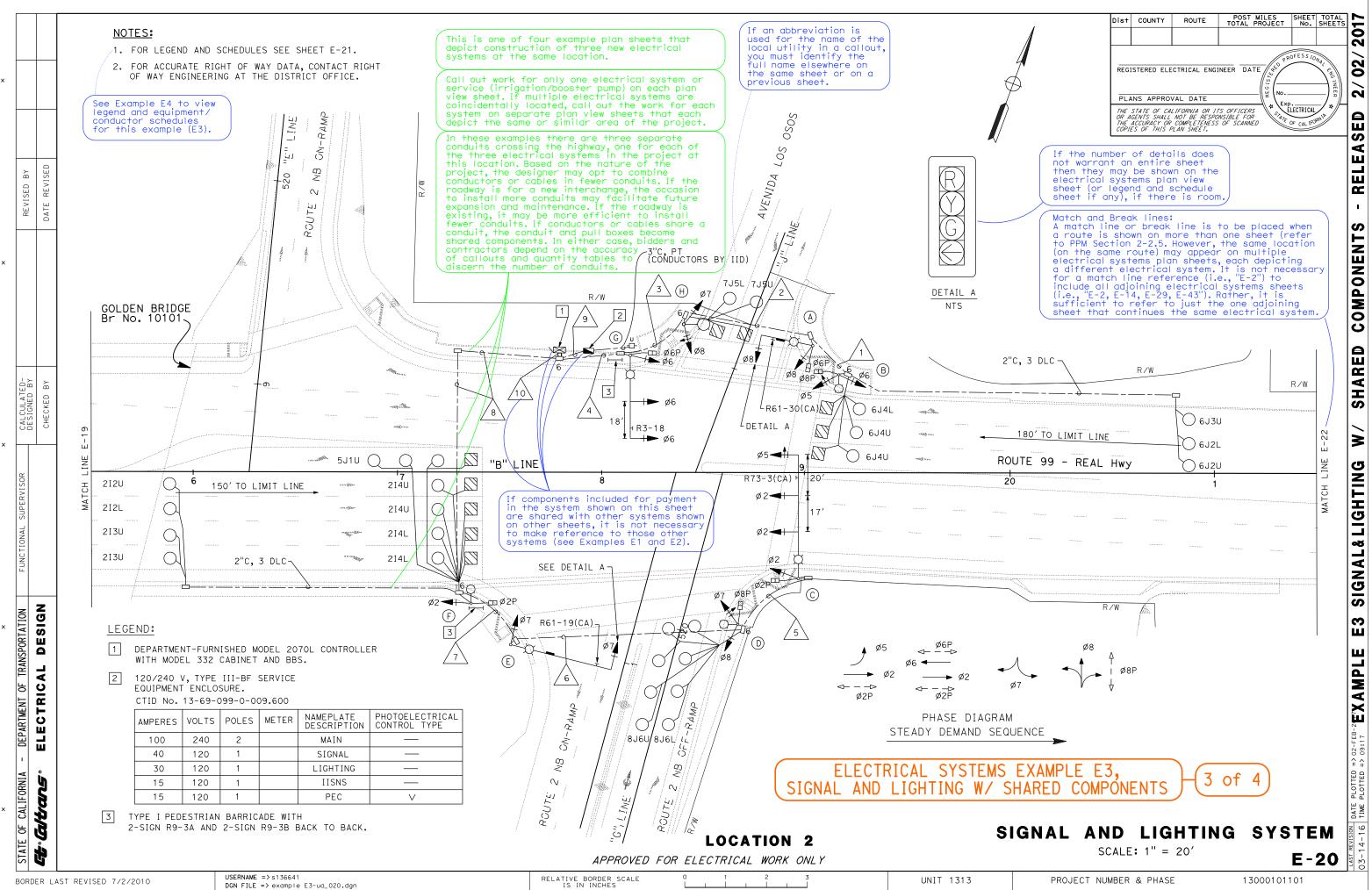




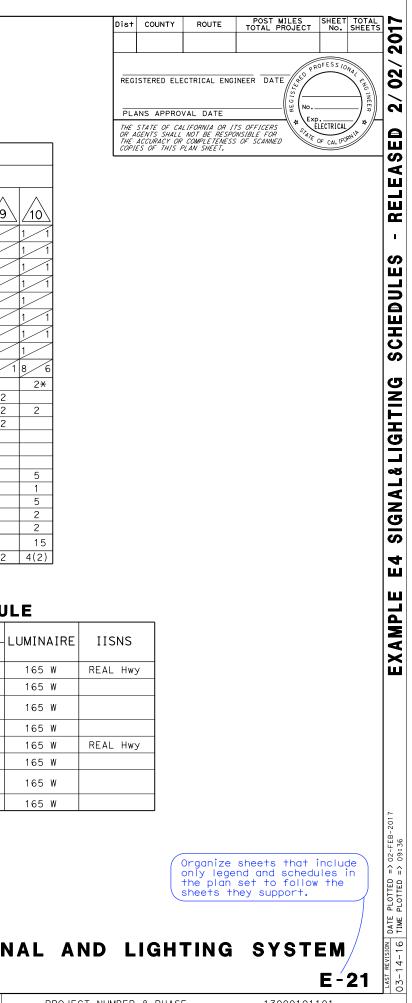






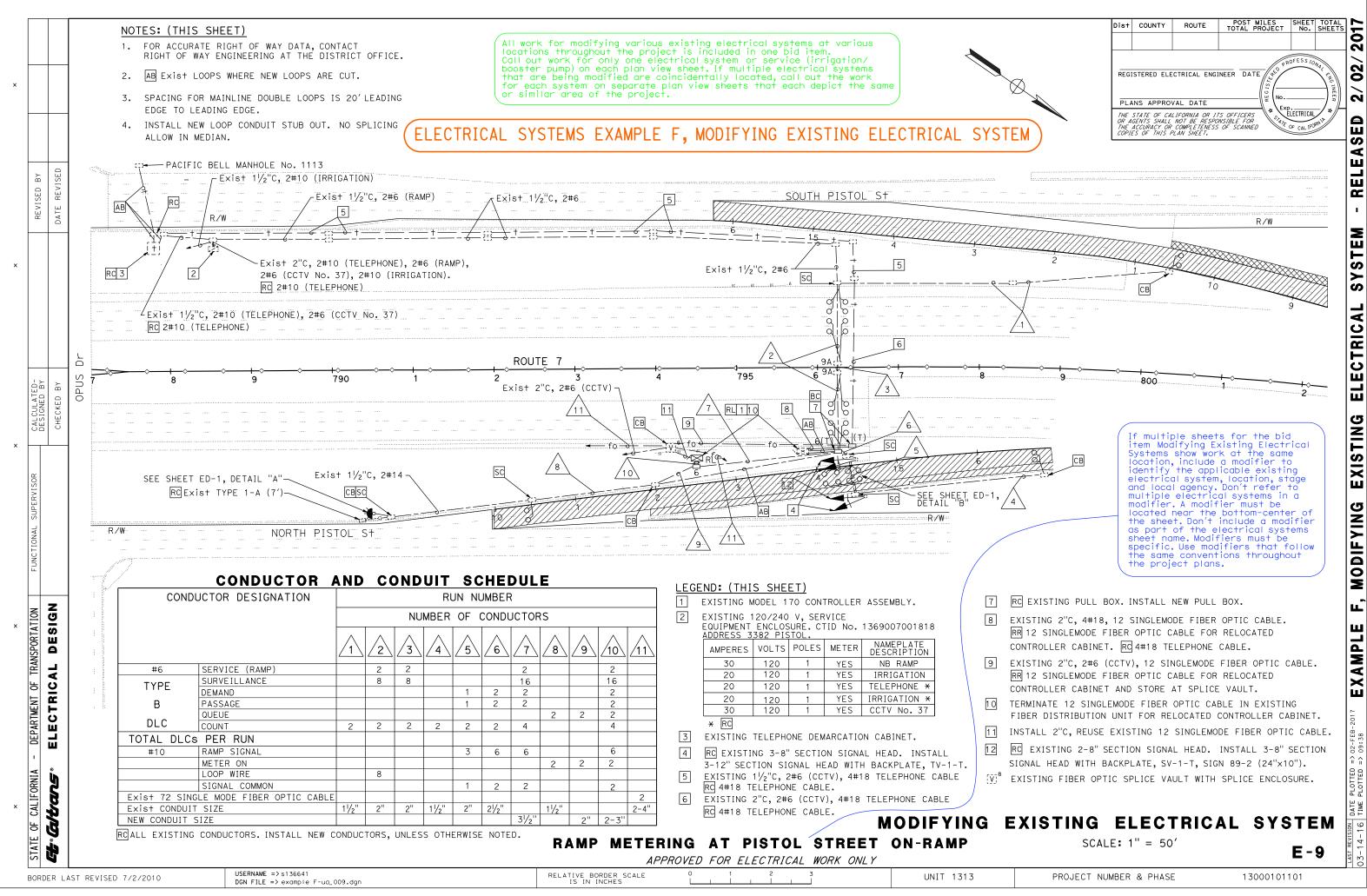


	On a sheet that includes only legend an schedules, identify all the electrical systems plan sheets that it supports. I this case, sheet E-20 is on example pla	nd In in E3,	LEGE		<u>r sheet</u> NDUC			ND	CON	IDUI.	T SC	HEC	UL	E	
			CONDU		DESIGNA						RUN NI				
				_ Std							R OF (S	
			CABLE TYPE			ASE		$\frac{1}{2}$	2	3 4	5	6	7	8	<u>, 1</u>
DATE REVISED			Veh-Ped 12CSC	A B	8		8P 6P 1				1				
				C D	2,5		2P 8P								
			PBA 3CSC		2		2P 6P								
			TOTAL CABL	Н	7,8 7,8			12	1	1	31 1	2 2	3 /2	4 31	1
			6 PAIR #20 #10		SIC STREET LI	GHTIN	3	2	2	2 2	2	2	2		2
BY	The signal interconnect cable itself is NOT		#6 #12 Manufacturer		ONTROLLER IISN Ø2F	S	R		2	2 2	1		2		2 2
DESIGNED BY CHECKED BY	a charged component but in this events the		APS Cable		Ø6F Ø8F Ø2	C		1		1	1			5	
	conduit run it is in IS shared. If the SIC is repeated here for clarity, inform the bidder, contractor, and RE what bid item the SIC is a part of, so that it is not misunderstood to be part of Signal and Lighting System. The SIC is called out on the Interconnection		TYPE B DLC		Ø5 Ø6 Ø7			5	-	5 5 2 2				1	
	Conduit and Cable plan sheets.	<	TOTAL DLCs	PER R	Ø8			5		7 7		2	2 2	2 8	
			CONDUIT SIZE	RCONNECT	FION CONDU	1A TIL		3 LE	3	4 4	3	3	4	4 2	2 4(
					ST						JIPMI			HEDU	JLE
			STA ⊗ TYPE	ANDARD SMA	LMA	ø	Veh S MAST ARM	Sig N Ø	1+g POLE		ed SIC		-	APS	LUMI
			A 19-4-100	25'	15'	8	ARM MAS		SV-1-T		M+ SP-	-	Ø 6	ARROW	16
Z			B 15TS		15′		14.7		SV-2-T		SP-	1 – T	3		16
SIGN			C 61-5-100 D 15TS	60'	15' 15'	2,5	MAT 2-MAS	2	SV-1-T SV-2-T		SP-		3	←	16
			E 29-5-100	50′	15	7	MAT		SV-1-T		35-	i I	2		16
AL			F 15TS	• • •	15'		MAT		SV-1-T		SP-		2		16
CTRIC			G 26-4-100 H 15TS	40'	15'	6	MAT MAS		SV-1-T SV-2-T		SP-	1 - 1	6 6	←	16 16
ELECTRIC	This is one of four example plan sheets that	+						',0	<u> </u>						16
	depict construction of three new electrical systems at the same location.							a pl this the	an view modifi bidder	h this v sheet ier qui and co	, repea ckly int ontracto	ting forms or of			
Š					· ·		· · · · ·	1.1	applier						
ELECTRICAL S	SYSTEMS EXAMPLE E4. SIGNAL AND L	IGHTI	NG SCHEDU	les –	-(4 of	• 4		the	legend	and sc	hedules	s.			
ELECTRICAL S	SYSTEMS EXAMPLE E4, SIGNAL AND L	IGHTI			-(4 of L OR ELEC	00) ATIC 4L WC	the DN	legend 2	and so	cation i chedules	for 5.		SIGI	NA



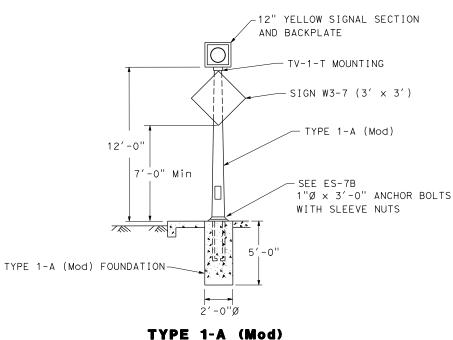
PROJECT NUMBER & PHASE

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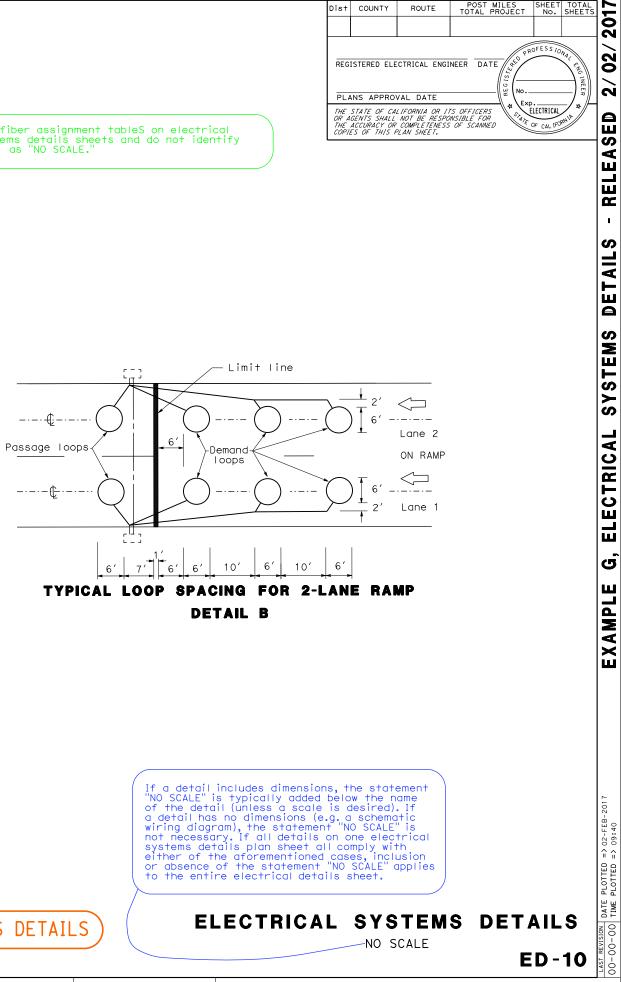
Each detail must have a name or a designation (or both, e.g., "Typical Loop Spacing for 2-Lane Ramp," or "Detail B"). If a callout or legend entry invokes an electrical detail that is not on the same plan sheet, the callout or legend entry must include the sheet identification and number on which the detail is shown (e.g., "Detail B, See sheet E-1" or "Detail B, See sheet ED-1").

idard drawings from other agencies, when standard drawings trom other agencies, when applicable to the project, shall be included as part of the project plan set. Referring to a standard drawing number from another agency is not acceptable. Identify which bid item includes payment for the work involved. Refer to Section 2-1.6 "Standard Drawings from Other Agencies" for further information. Put fiber assignment tableS on electrical systems details sheets and do not identify them as "NO SCALE."



FLASHING BEACON DETAIL A

Electrical details are project specific details for work shown on the electrical systems sheets that are not included in the Standard Plans, or are modified from the Standard Plans. Refer to Section 2-2.6 "Construction Details" for further information. A modified standard plan detail or a combination of standard plan details must be shown and labeled as a modified detail. Provide sufficient dimensioning and callouts for the modified detail so that quantities involved are calculable. See Section 2-1.4 "Use of Standard Plans.'



ELECTRICAL SYSTEMS EXAMPLE G, ELECTRICAL SYSTEMS DETAILS

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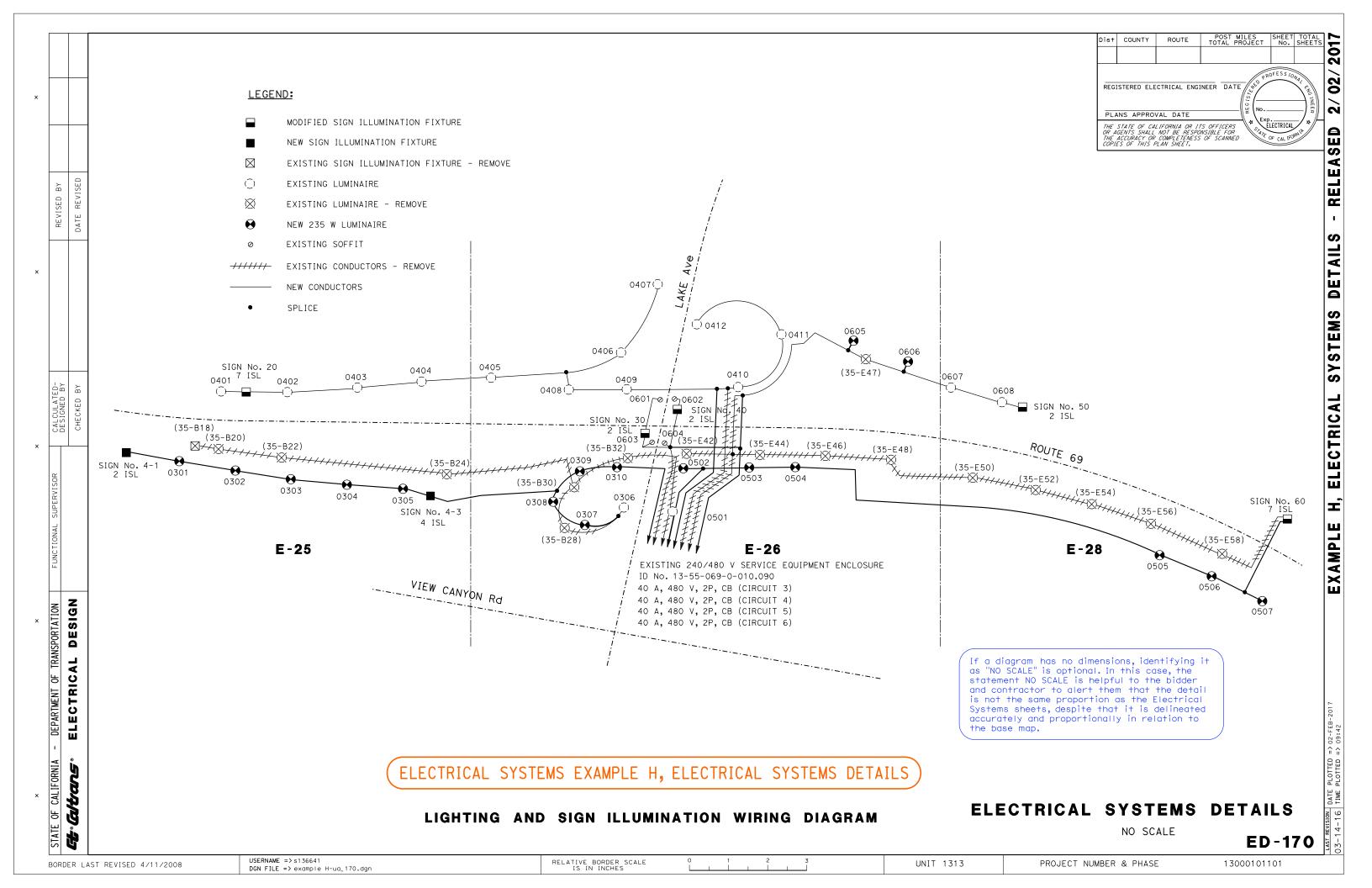
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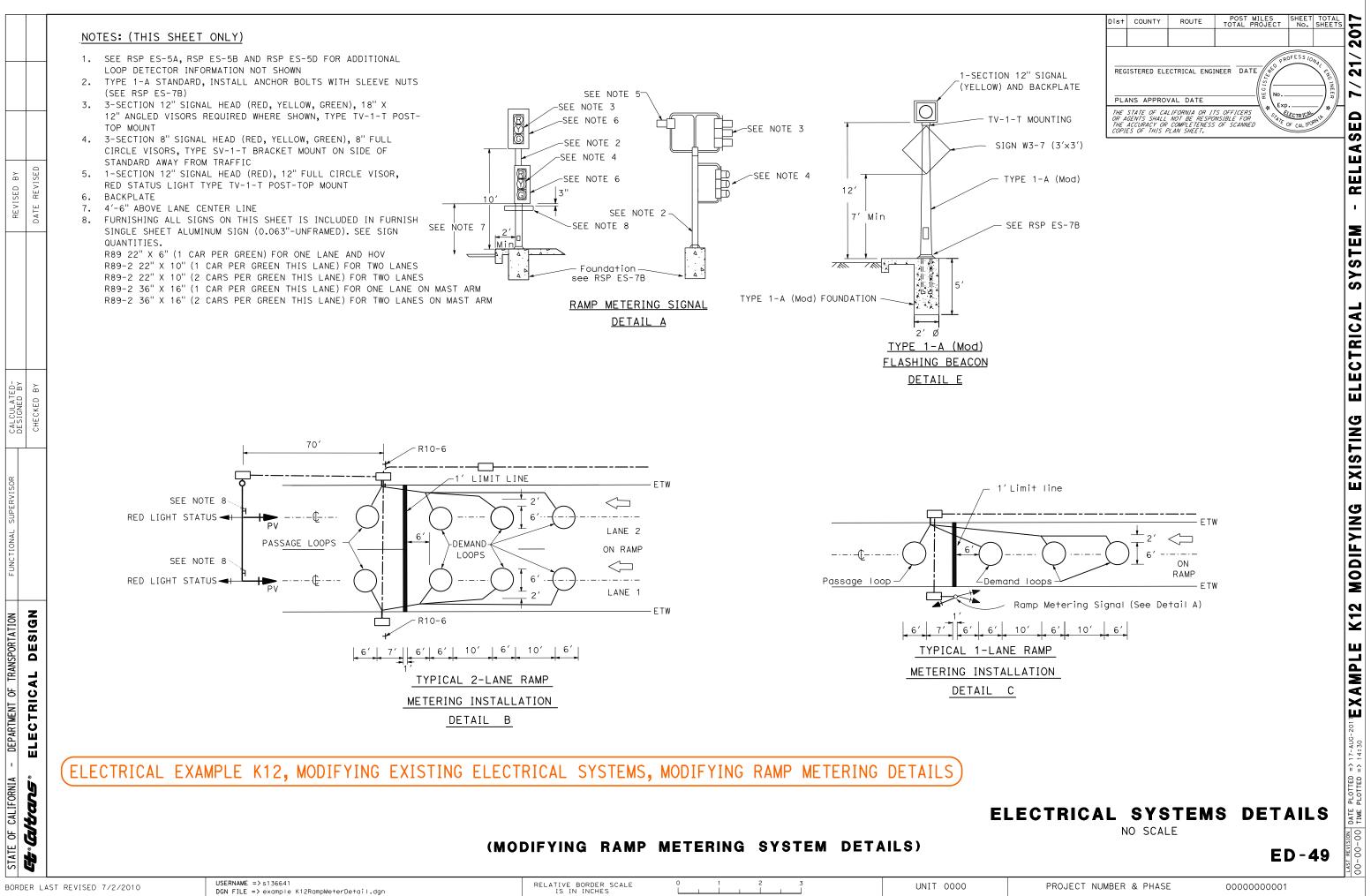
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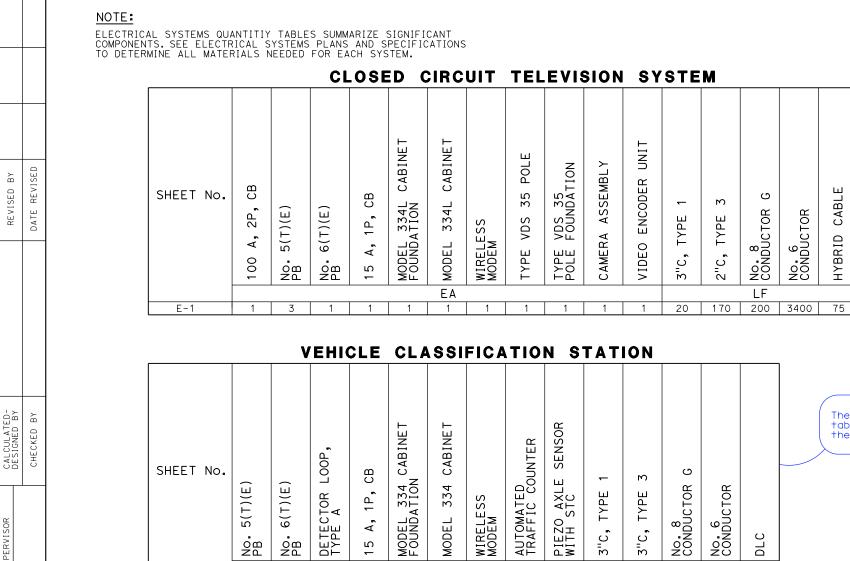
UNIT 0000

PROJECT NUMBER & PHASE

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The quantities in these tables are not shown in the example plans. SHEET No. 5(T)(E) ЪВ. F-4 5 E-5 5 E-6

This quantity table example corresponds with the work

shown on example D4.

CHANGEABLE MESSAGE SIGN SYSTEM

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she	wn on	example	C.	

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ELECTRICAL SYSTEMS EXAMPLE J, ELECTRICAL SYSTEMS QUANTITIES

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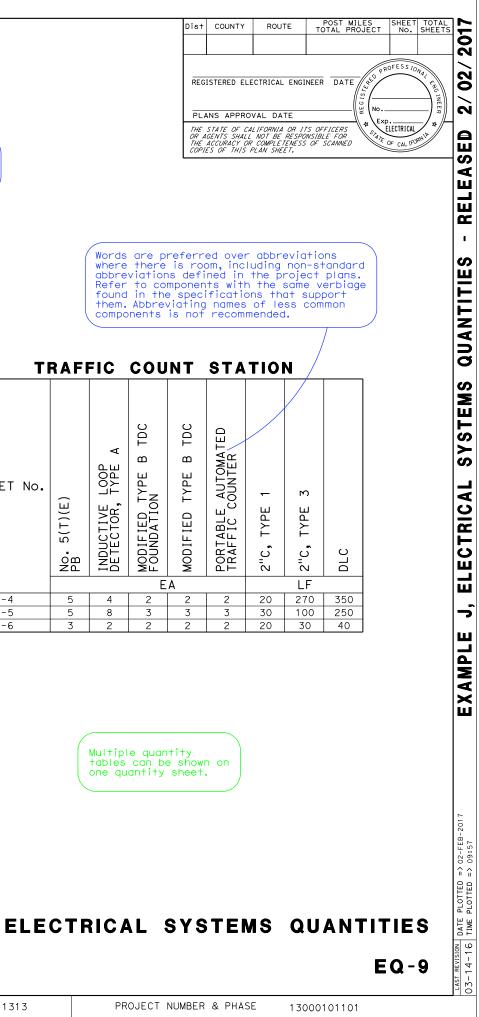
7

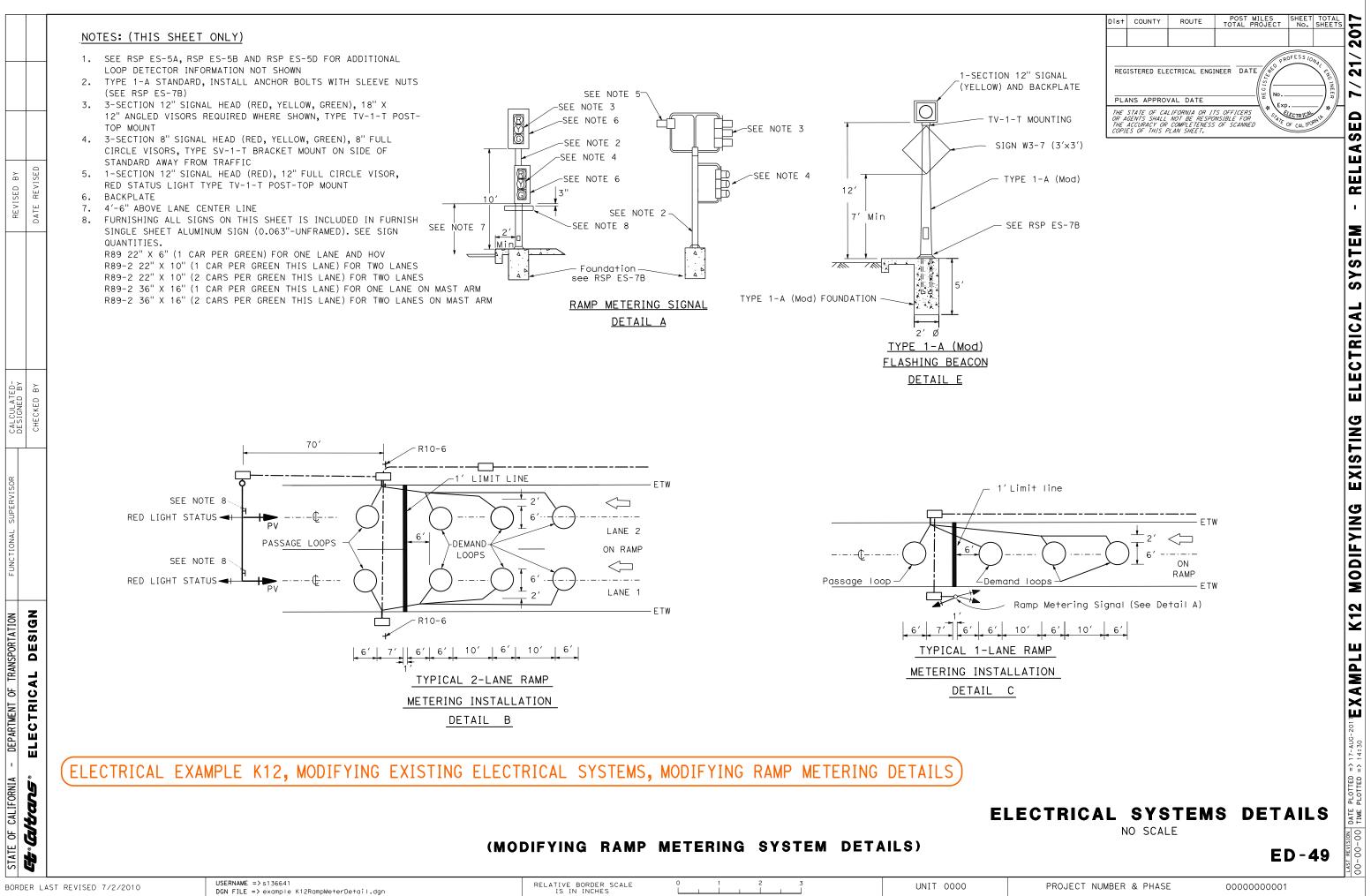
3''C,

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20 1100 1000 2800 2400

UNIT 1313





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STATE ł ELECTRICAL SYSTEMS QUANTITY TABLES SUMMARIZE SIGNIFICANT COMPONENTS. SEE ELECTRICAL SYSTEMS PLANS AND SPECIFICATIONS TO DETERMINE ALL MATERIALS NEEDED FOR EACH SYSTEM.

MODIFYING	ЕX	ISTING	ELEC	TRIC	A
MODIFYI	NG	COMMU	NICAT	ION	(

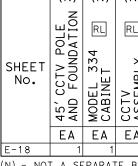
		(N)														
SHEET No.	2" CONDUIT	4" CONDUIT	TRACER WIRE & WARNING TAPE	1" INNERDUCT	PULL TAPE	TYPE A CABLE	TYPE B CABLE	TYPE C CABLE	TYPE D CABLE	REMOVE Exist FO	REMOVE Exist INNERDUCT	REMOVE Exist FO CONDUIT	SPLICE VAULT	PULL BOX No. 5	PULL BOX (C)	REMOVE PULL BOX
	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	ΕA	ΕA	ΕA	EA
E-9				400	100	100	100	100								
E-10				6,000	1500	1500	1500	1500								
E-11		550	550	7,700	1920	1920	1920	1920								
E-12		1400	1400	11,200	2800	2800	2800	2800	35	850	800	400	1		1	1
E-13		1400	1400	11,200	2800	2800	2800	2800	35	1000	900	450	1		1	1
E-14		1300	1300	10,400	2600	2600	2600	2600		1000	1100	550			1	1
E-15	1050	3150	1600	12,800	3800	1600	3150	3150	5400	4700	6200	3100		5	4	8
E-16		1250	1250	11,000	2750	2750	2750	2750							1	1
E-17				3,700	920	920	920	920								

(N) - NOT A SEPARATE BID ITEM

MODIFYING EXISTING ELECTRICAL SYSTEM INTERIM COMMUNICATION **evetem**

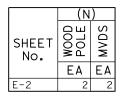
	(N)	(N)	(N)	(N)	(N)	(N)	(N)						
SHEET No.	WOOD POLE	TYPE H RISER	OVERHEAD 48 SMFO	2" CONDUIT	4" CONDUIT	1" INNERDUCT	SPLICE VAULT						
	EA	ΕA	LF	LF	LF	LF	ΕA						
E-3	EA 4	EA 1	LF 650	LF 30	LF 100	LF 800	EA 1						
E-3 E-4		EA 1											
	4	EA 1	650										
E-4	4 8	EA 1	650 1400										
E-4 E-5	4 8 8	EA 1	650 1400 1400										
E-4 E-5 E-6	4 8 8 8	EA 1	650 1400 1400 1300										

(N) (N) (N



(N) - NOT A SEPARATE BID ITEM

MODIFYING EXISTING ELECTRICAL SYSTEM INTERIM MICROWAVE **VEHICLE DETECTION** SYSTEM



The table on the left and the tables on the right are two alternative ways to show the SAME INFORMATION (do not use both on the same project). While the quantities shown here are relatively simple, one or the other may be more clear based on the character of the work.

(N) - NOT A SEPARATE BID ITEM

Do not show totals of components at the bottom of the quantity table for a lump sum item.

ELECTRICAL EXAMPLE K14, MODIFYING EXISTING ELECTRICAL SYSTEMS QUANTITIES

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Dis†	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS	S S
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			[] [] [] [] [] [] [] [] [] [] [] [] [] [
	NS APPRO	VAL DATE			—) =	<u></u>
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OR A	GENTS SHALL	NOT BE RESPO	NSIBLE FOR	OF CAL IFO	RNIA	
	ES OF THIS P			CAL	/	ш

AL SYSTEM SYSTEM

MODIFYING EXISTING ELECTRICAL SYSTEM **MODIFYING CLOSED CIRCUIT TELEVISION SYSTEM**

1)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)
ASSEMBLY	2" CONDUIT	3" CONDUIT	#8 AWG	BARE #8 AWG	CAT 5E CABLE	PULL BOX No. 5 (TR)	PULL BOX No. 6 (TR)	REMOVE PULL BOX
Α	LF	LF	LF	LF	LF	ΕA	ΕA	ΕA
1	120	20	2500	200	125	1	1	3
	1.7.5.1							

ELECTRICAL SYSTEMS QUANTITIES

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ELECTRICAL SYSTEMS QUANTITY TABLES SUMMARIZE SIGNIFICANT COMPONENTS. SEE ELECTRICAL SYSTEMS PLANS AND SPECIFICATIONS TO DETERMINE ALL MATERIALS NEEDED FOR EACH SYSTEM.

MODIFYING EXISTING ELECTRICAL SYSTEM **MODIFYING RAMP METERING SYSTEM**

													(N)													
SHEET No.	며 MODEL 334 권 CABINET	H 27-4-100 (Mod)	m 3-SECTION 12" PROGRAMMED v VISIBILITY SIGNAL HEAD	H RED STATUS	MAST ARM MOUNTING	FOUNDATION, RM SIGNAL HEADS & MOUNTINGS	m 3-SECTION 12" P SIGNAL HEADS	M INDUCTIVE LOOP DETECTOR	및 1 1/2" CONDUIT	T 2" CONDUIT	∏ 2 ½" CONDUIT	T 3" CONDUIT	H CONDUIT	DLC	T BARE #8 AWG	#8 AWG	H #10 AWG	뒤 #12 AWG	규 #14 AWG	PULL BOX No. 9A	PULL BOX No. 5	PULL BOX (TR) NO. 5	PULL BOX (TR) NO. 6	PULL BOX No. 3(T)	T REMOVE PULL BOX	REMOVE POLE
5 10																<u> </u> .								LA		
E-19	2	1	2	3	4	1	2	41	400	1050	600	650	700	14500	2650	2600	950	1850	10150	1	5		2	2	23	
E-20								2	700					1400								3				

(N) - NOT A SEPARATE BID ITEM

Do not show totals of components at the bottom of the quantity table for a lump sum item.

(ELECTRICAL EXAMPLE K15, MODIFYING EXISTING ELECTRICAL SYSTEMS QUANTITIES)

BORDER	LAST	REVISED	7/2/2010	

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REGI	SIENED ELE	CIRICAL ENG	INEER DATE		ENG			
PLANS APPROVAL DATE								
THE STATE OF CALIFORNIA OR ITS OFFICERS								
THE	ACCURACY OR	NOT BE RESPO COMPLETENES	S OF SCANNED	OF CAL IFO	RNIP			
COPIL	ES OF THIS F	PLAN SHEET.		Ĩ	/	L		

$\widehat{\ } \widehat{\ } \widehat{\ }$ PLOTTED PLOTTED DATE TIME **ELECTRICAL SYSTEMS QUANTITIES** N O EQ-52

						Use the sheet name plan sheet if it co abbreviations, etc. electrical systems sets of notes with "CONSTRUCTION NOTE use a single list l	e ELECTRICAL SY ontains only no , that apply to plans. Do not r various names S, "UTLITY NOT abeled "NOTES."	STEMS on the tes, legends, all of the nake multiple (e.g. ES, etc.),			
	D D	INDEX OF ELECTRIC	AL SYSTEMS PL	ANS							
REVISED BY		ELECTRICAL SYSTEMS PLAN SHEET DESC	RIPTION								
CALCULATED- DESICARTA ED-	CHECKED BY	E-1INDE $E-2$ MODI $E-3$ TO $E-8$ MODI $E-9$ TO $E-17$ MODI $E-18$ MODI $E-19$ TO $E-20$ MODI $E-21$ TO $E-27$ MODI $E-28$ TO $E-29$ TEMF $E-30$ SIGN $E-31$ TO $E-37$ MODI $E-38$ TO $E-39$ MODI $E-40$ MODI $E-41$ TO $E-42$ ELEC $E-43$ ELEC $E-44$ TO $E-48$ ELEC $E-49$ ELEC $E-50$ ELEC	X OF ELECTRICAL FYING EXISTING EI FYING EXISTING EI FYING EXISTING EI FYING EXISTING EI FYING EXISTING EI PORARY LIGHTING SY ILLUMINATION SY FYING EXISTING EI FYING EXISTING EI FYING EXISTING EI FYING EXISTING EI CTRICAL SYSTEMS E CTRICAL SYSTEMS E	LECTRICAL SYSTEM, INT LECTRICAL SYSTEM, INT LECTRICAL SYSTEM, MOI LECTRICAL SYSTEM, MOI LECTRICAL SYSTEM, MOI LECTRICAL SYSTEM, INT YSTEM LECTRICAL SYSTEM, SIG LECTRICAL SYSTEM, LIG LECTRICAL SYSTEM, LIG LECTRICAL SYSTEM, LIG DETAILS, INTERIM MICRO DETAILS, COMMUNICATIO DETAILS, RAMP METERIN DETAILS, LIGTHING AND	ECTRIC SERVICE FOR I OWAVE VEHICLE DETECT MMUNICATION SYSTEM F N SYSTEM	LE DETECTION SYSTE YSTEM SYSTEM T TELEVISION SYSTE SYSTEM R M RRIGATION ION SYSTEM IBER ASSIGNMENT TAU	М		2. LOCATIONS OVERHEAD THE CONTF NECESSARY CONSTRUCT	COMMUNICATION AND FIBER S OF TEMPORARY WOOD PO ELECTRIC CONDUCTORS, ACTOR MAY REARRANGE (TO FACILITATE FION.	DLES TO AND TEMI THE LOCA
FUNCTIONAL SUPERVISOR			LEGE		VAULT WITH SPLICE CI	OSURE				<u>ABBREVIATIONS</u> FDU	FIBER
FL					WITH SPLICE CLOSUR					Iden	IDENT
RTATION	DESIGN		Ļ	(SEE SHEET E-47) GUY WIRE, 17' HOR	FOR DETAILS)					PV SMFO TYPE A CABLE TYPE B and C CABLE	
DEPARTMENT OF TRANSPORTATION	ELECTRICAL DE		🗖 (TR)	TAMPER RESISTANT	TRAFFIC-RATED PULL E	OX WITH 4 SECURITY	Y SCREWS			TYPE D CABLE	12 SII
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STATE OF			USERNAME => s136641	INDEX	OF ELECTE	RICAL SYST		NS, NOTE	S, LEGEND	, ABBREVIATI	ONS

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THE STATE OF CALIFORNIA OF ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PI AN SHFFT.								
LOPI	ES OF THIS P	LAN SHEET.						S

OPTIC CONDUIT SHALL HAVE FOUR 1" INNERDUCTS

ES TO SUPPORT AERIAL FIBER OPTIC CABLES, ID TEMPORARY MVDS AS SHOWN ARE APPROXIMATE. E LOCATIONS OF TEMPORARY WOOD POLES AS

RARY WOOD POLES ON SES SHEETS.

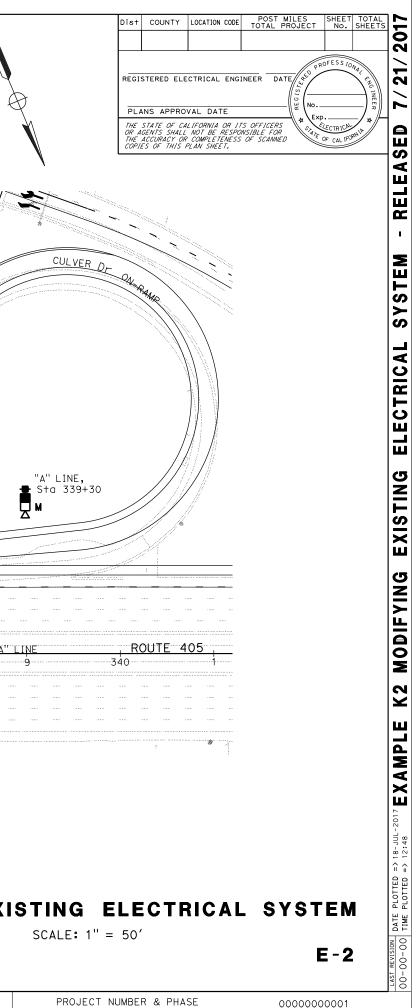
FIBER DISTRIBUTION UNIT IDENTIFICATION PHOTOVOLTAIC SINGLEMODE FIBER OPTIC CABLE 36 SINGLEMODE FIBER OPTIC CABLE 72 SINGLEMODE FIBER OPTIC CABLE 12 SINGLEMODE FIBER OPTIC CABLE

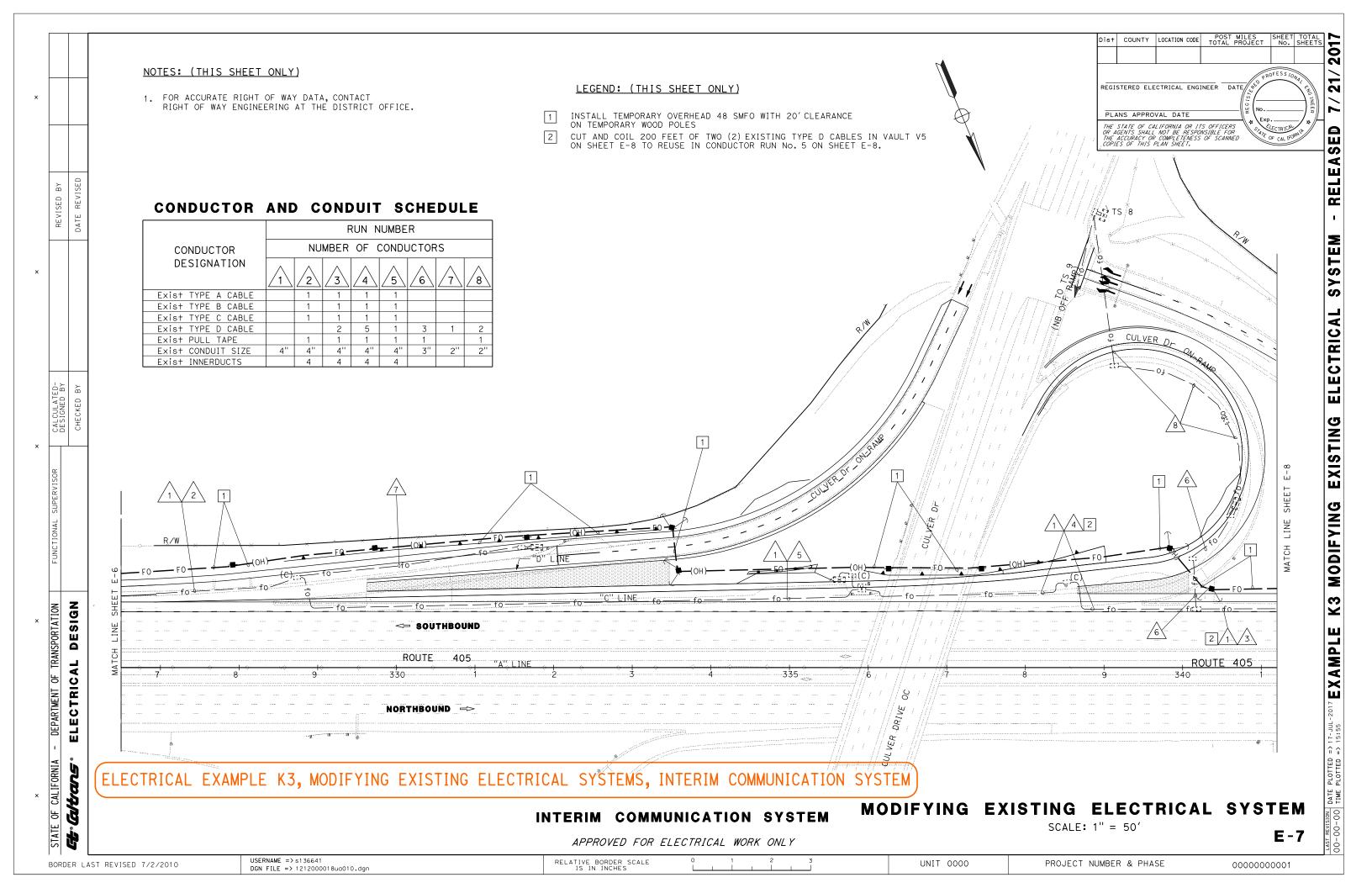
ELECTRICAL SYSTEMS E-1

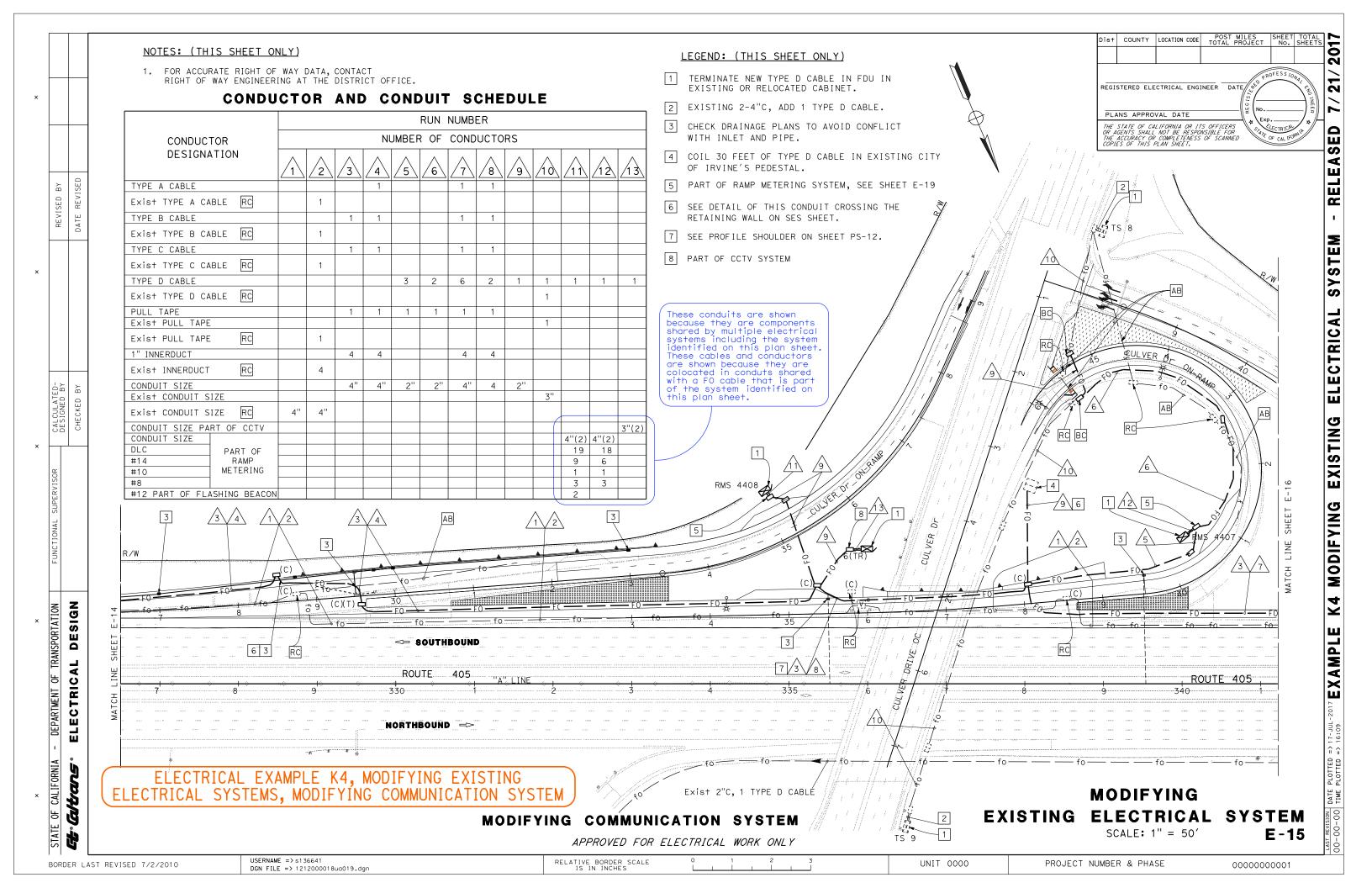
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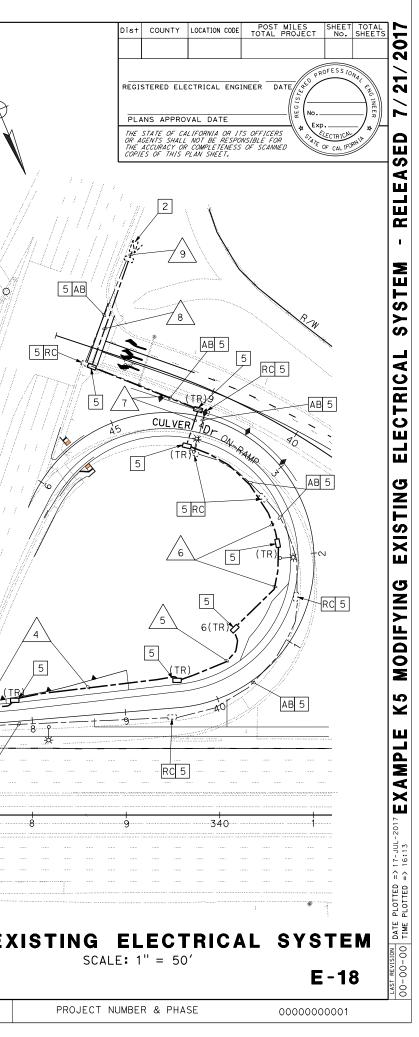
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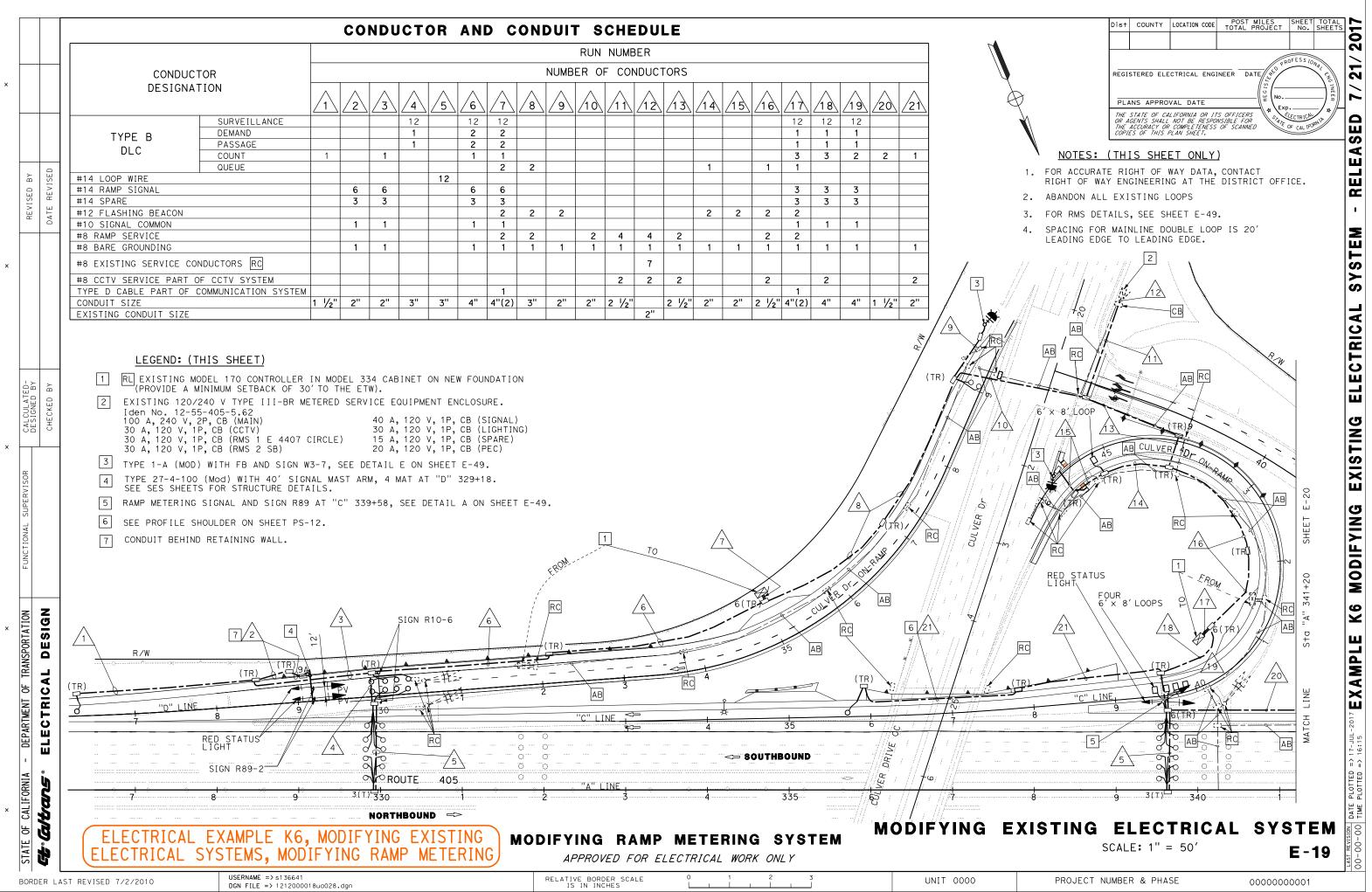


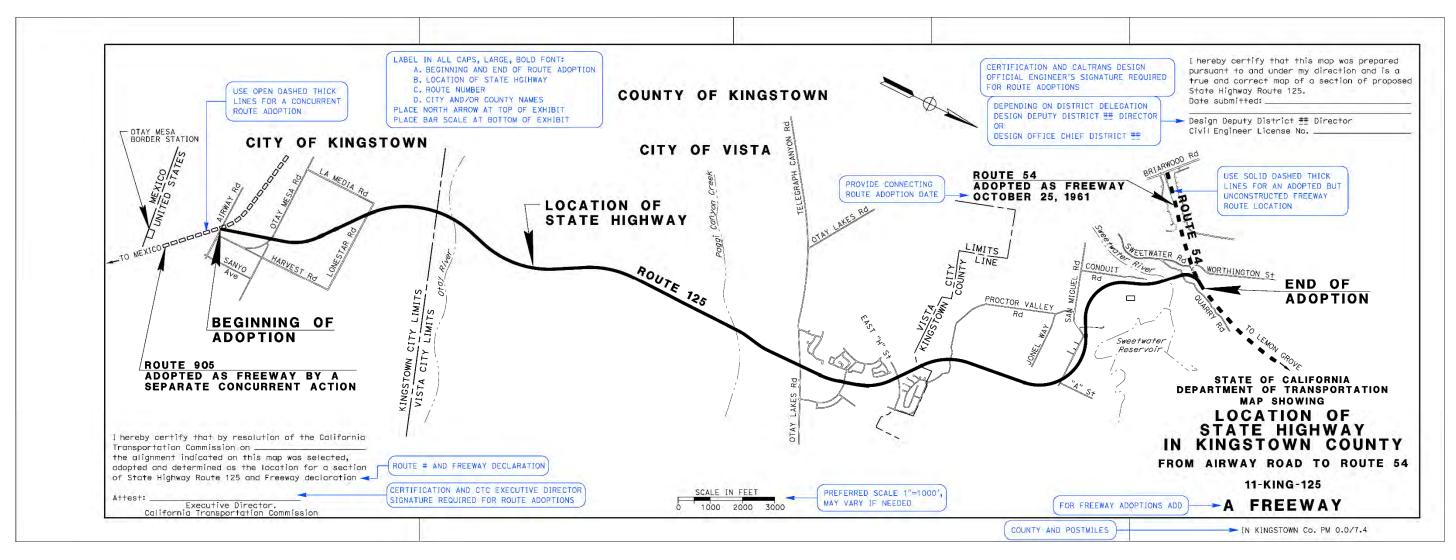




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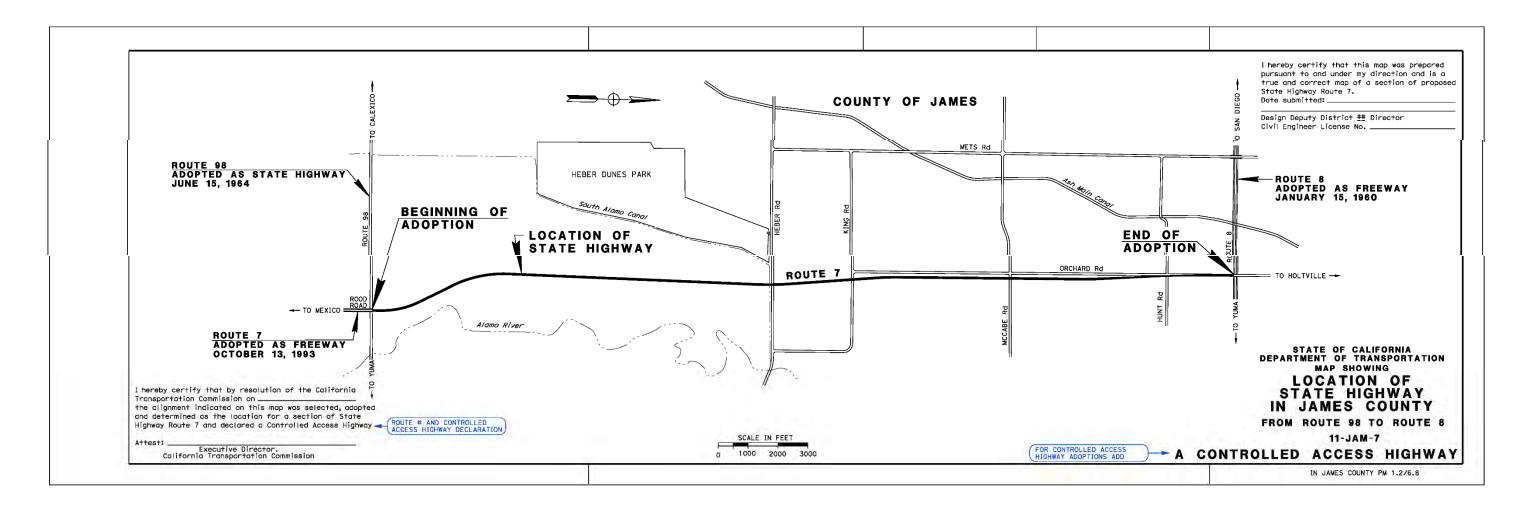




ROUTE ADOPTION – FREEWAY

FIGURE 3-2.3A

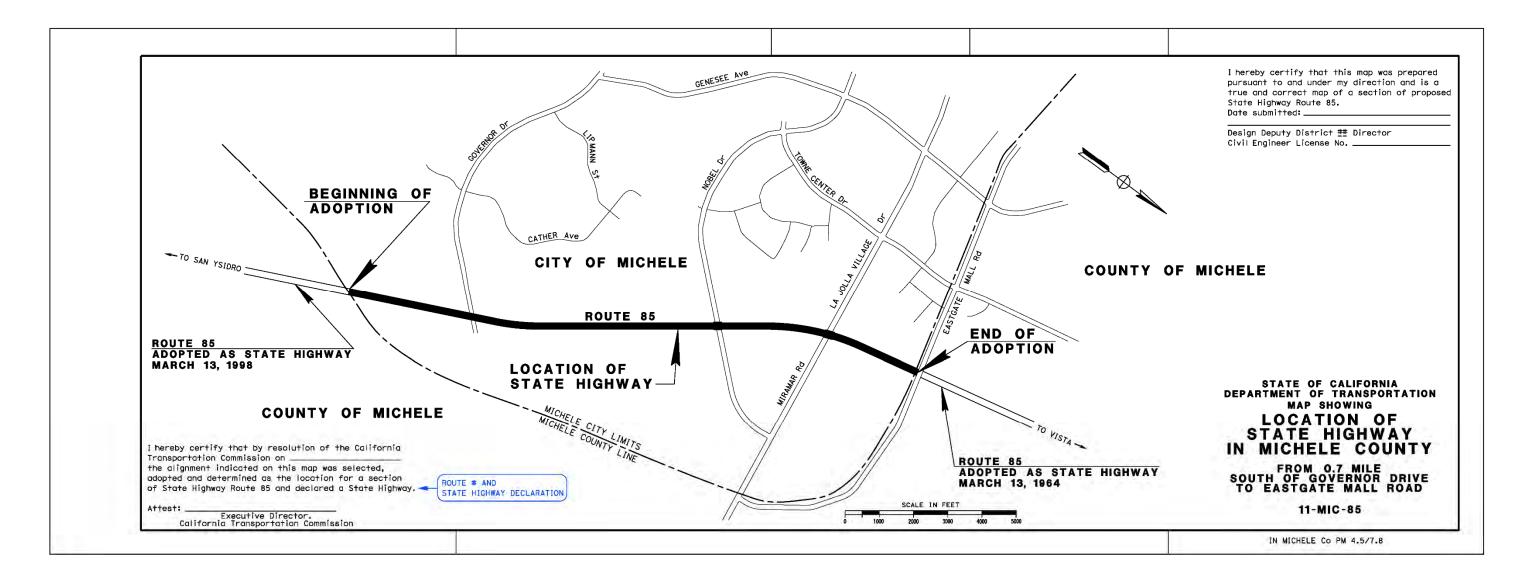
Note:



ROUTE ADOPTION – CONTROLLED ACCESS HIGHWAY

FIGURE 3-2.3B

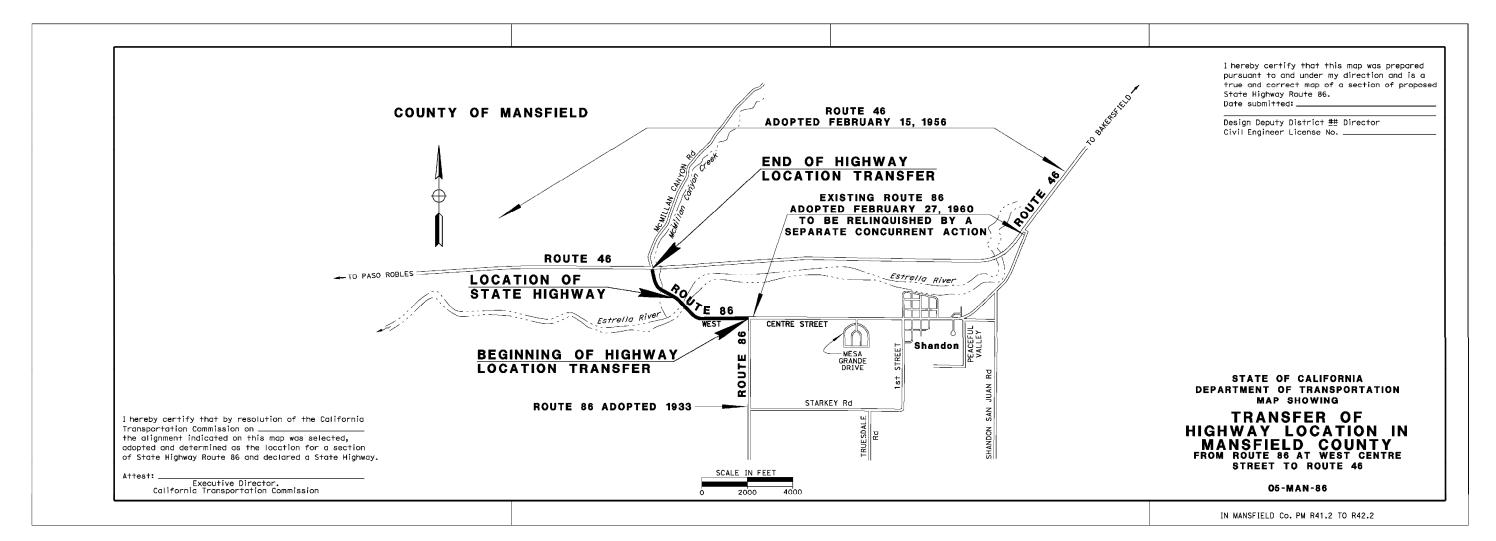
Note:



ROUTE ADOPTION – CONVENTIONAL HIGHWAY

FIGURE 3-2.3C

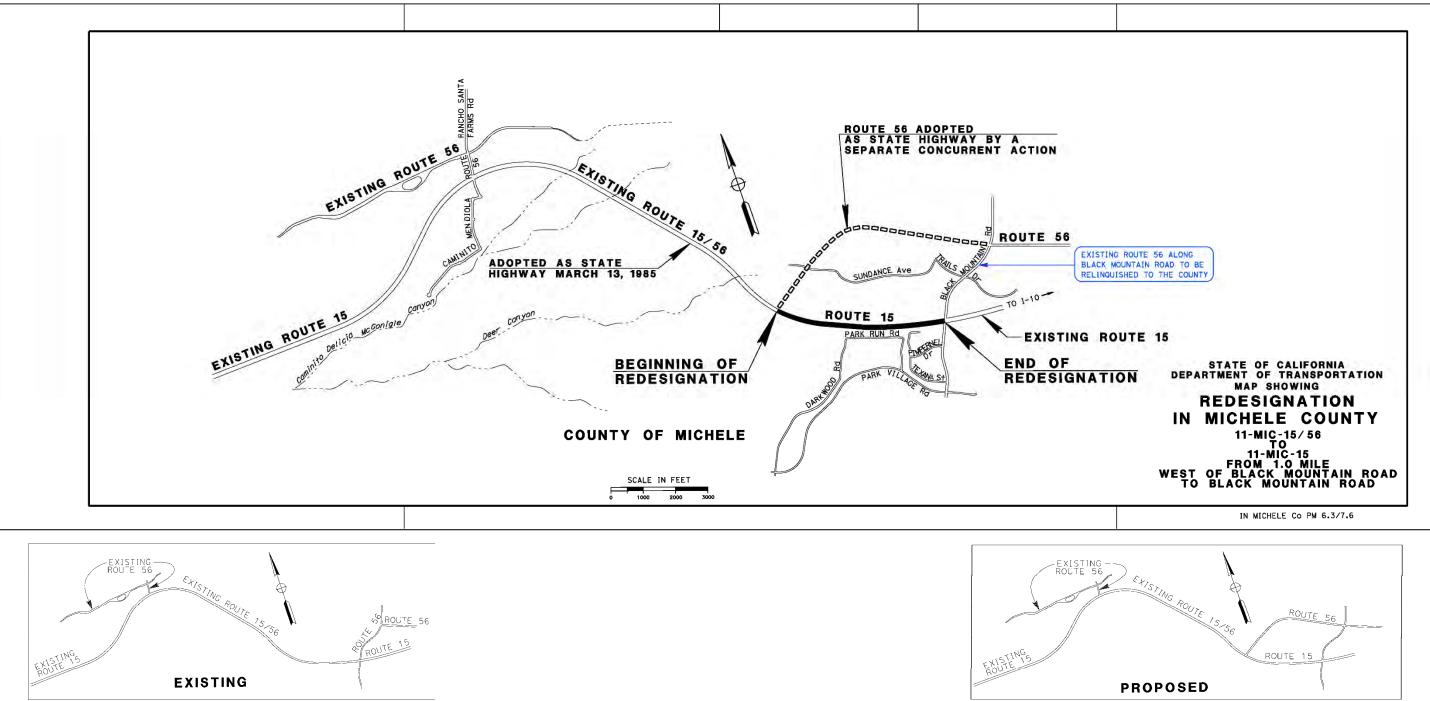
Note:

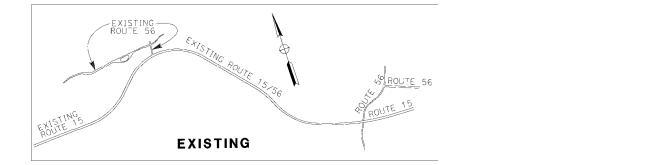


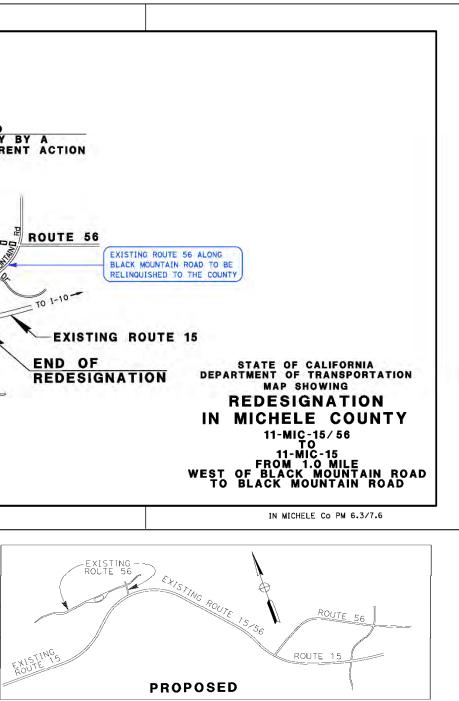
TRANSFER OF HIGHWAY LOCATION

FIGURE 3-2.3D

Note:







ROUTE ADOPTION – REDESIGNATION

FIGURE 3-2.3E

Explanation of this Example Re-designation: Route 56 currently joins Route 15 at Caminito Mendiola Road. It is designated as Route 15/56 from Caminito Mendiola Road to Black Mountain Road. At this point existing Route 56 branches from Route 15 in a northerly direction along Black Mountain Road. A new alignment is proposed for Route 56 where it will branch to the north approximately 1.0 Mile west of the existing connection of Black Mountain Road and Route 15/56. The exhibit shows the re-designation of this section of Route 15/56 to Route 15 from 1.0 Mile west of Black Mountain Road to the Black Mountain Road/Route 15 connection.

FIGURE 3-2.3F

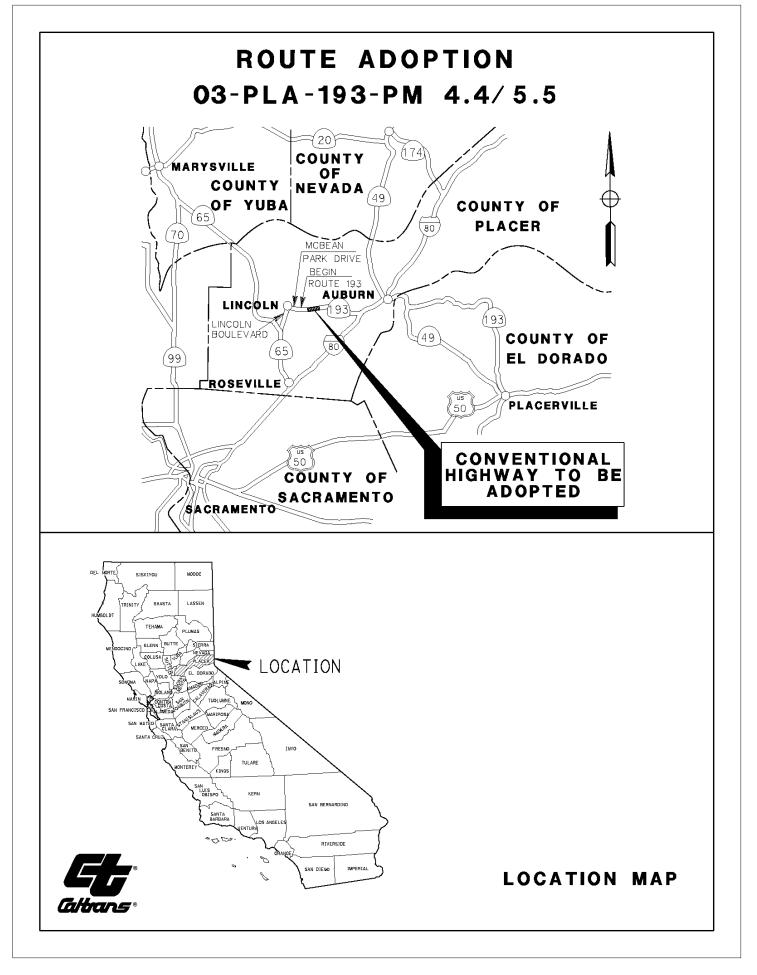


FIGURE 3-2.3G

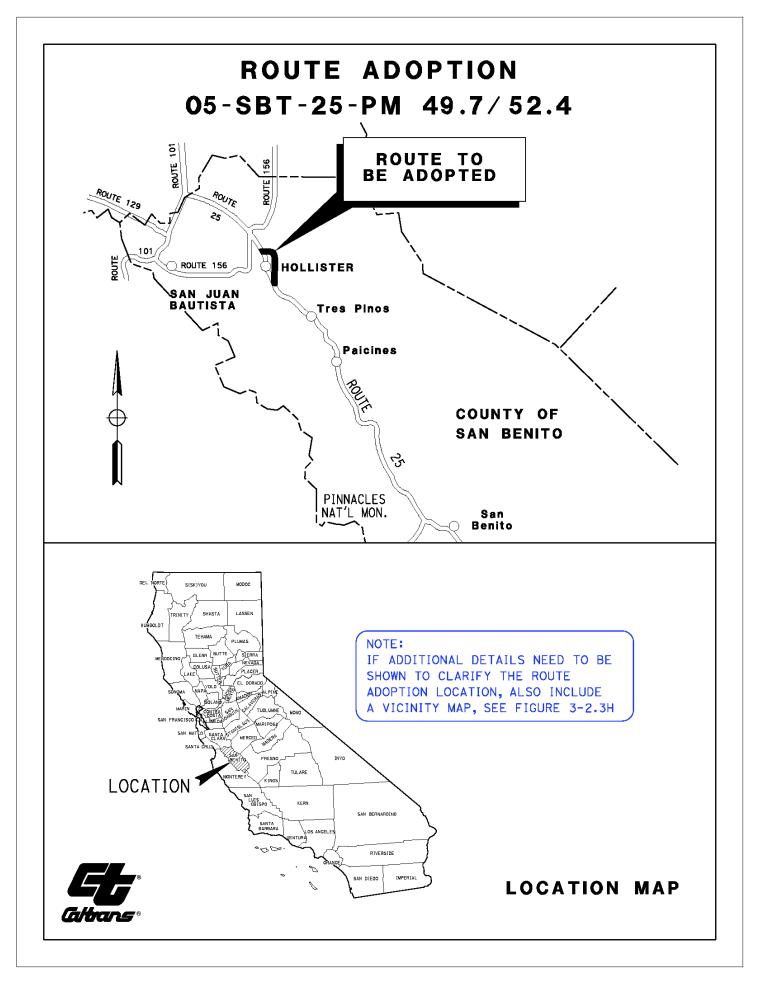
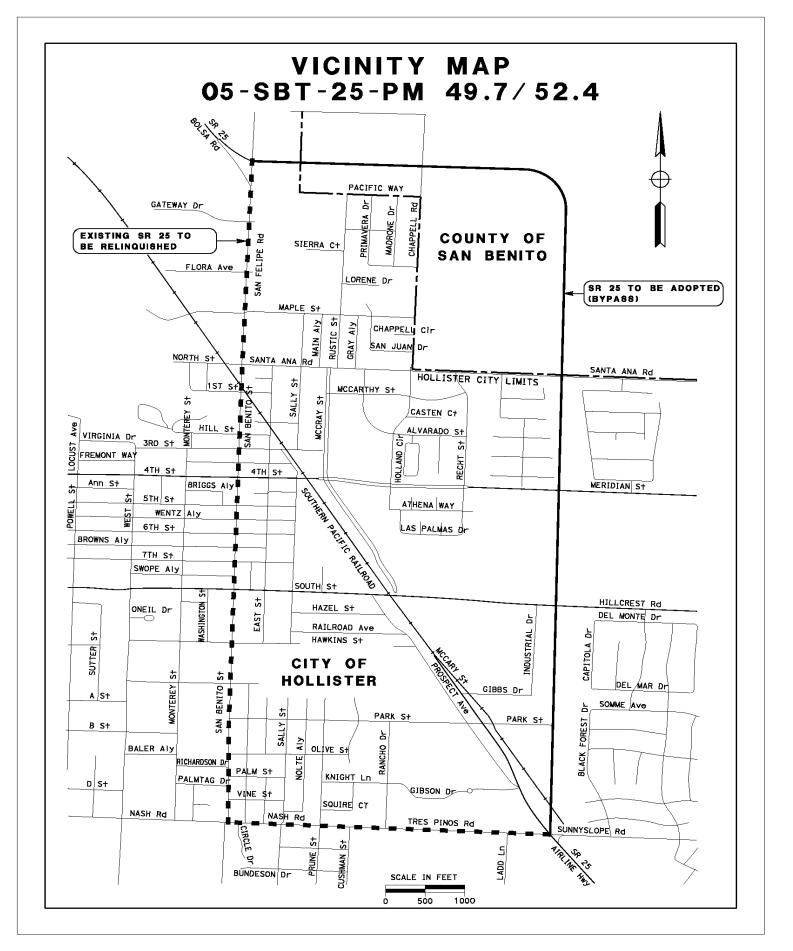
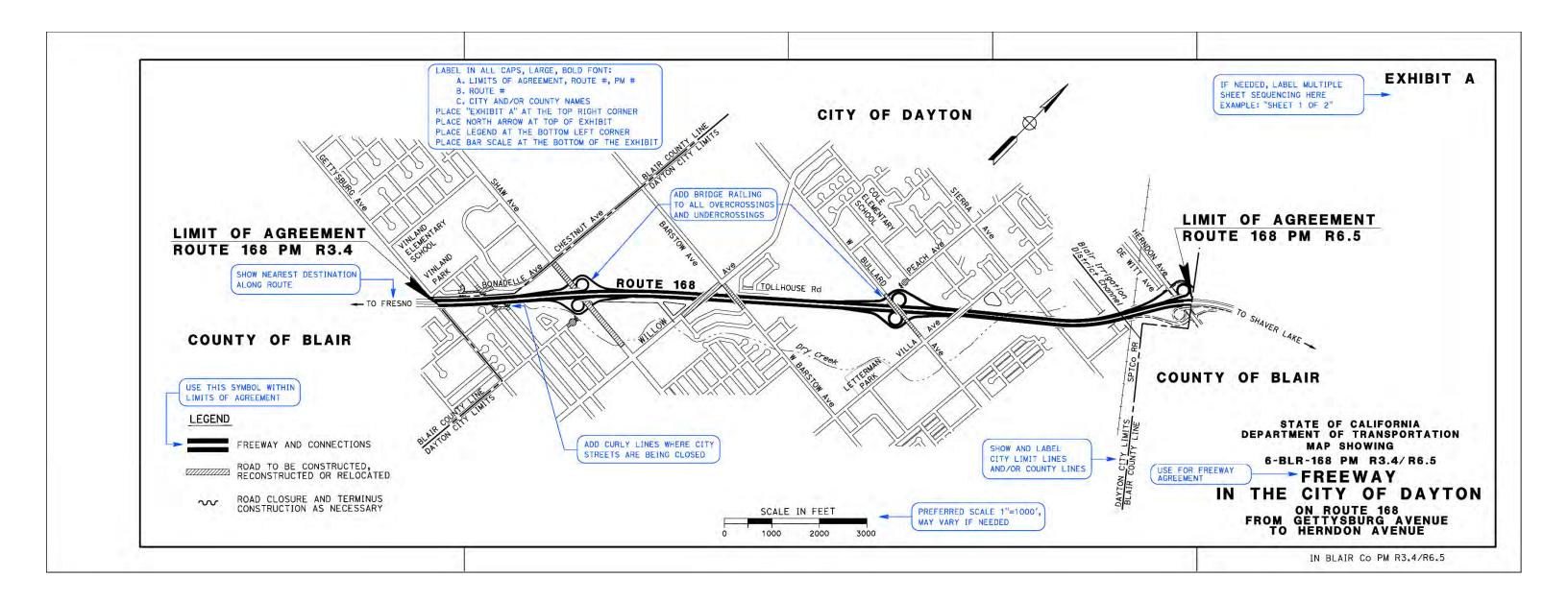


FIGURE 3-2.3H





FREEWAY AGREEMENT – GEOMETRIC

FIGURE 3-2.4A

Note:

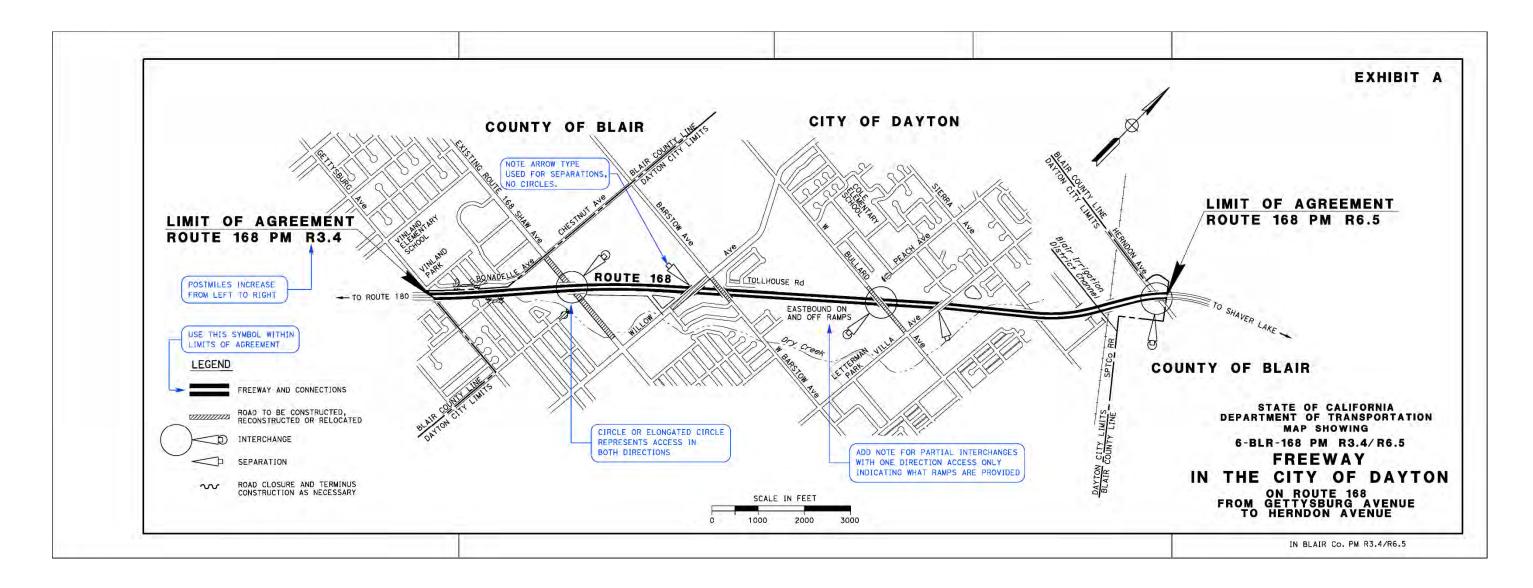


FIGURE 3-2.4B

Note:

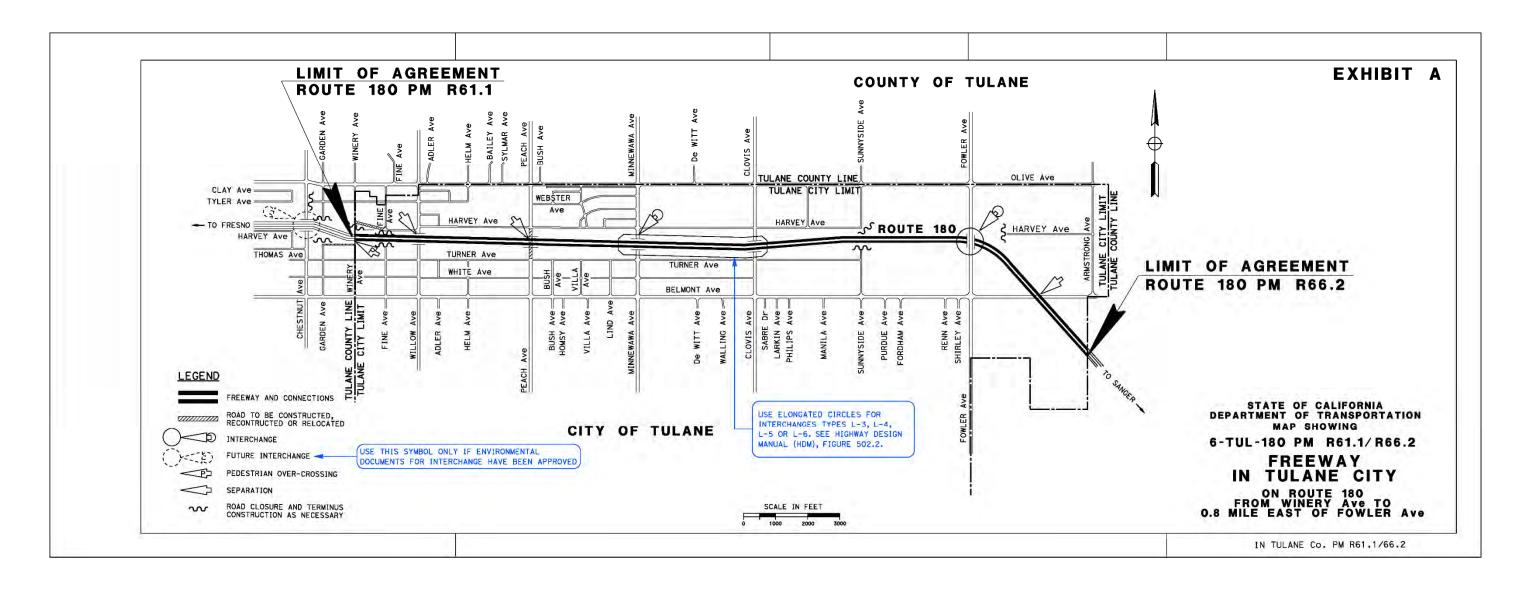


FIGURE 3-2.4C

Note:

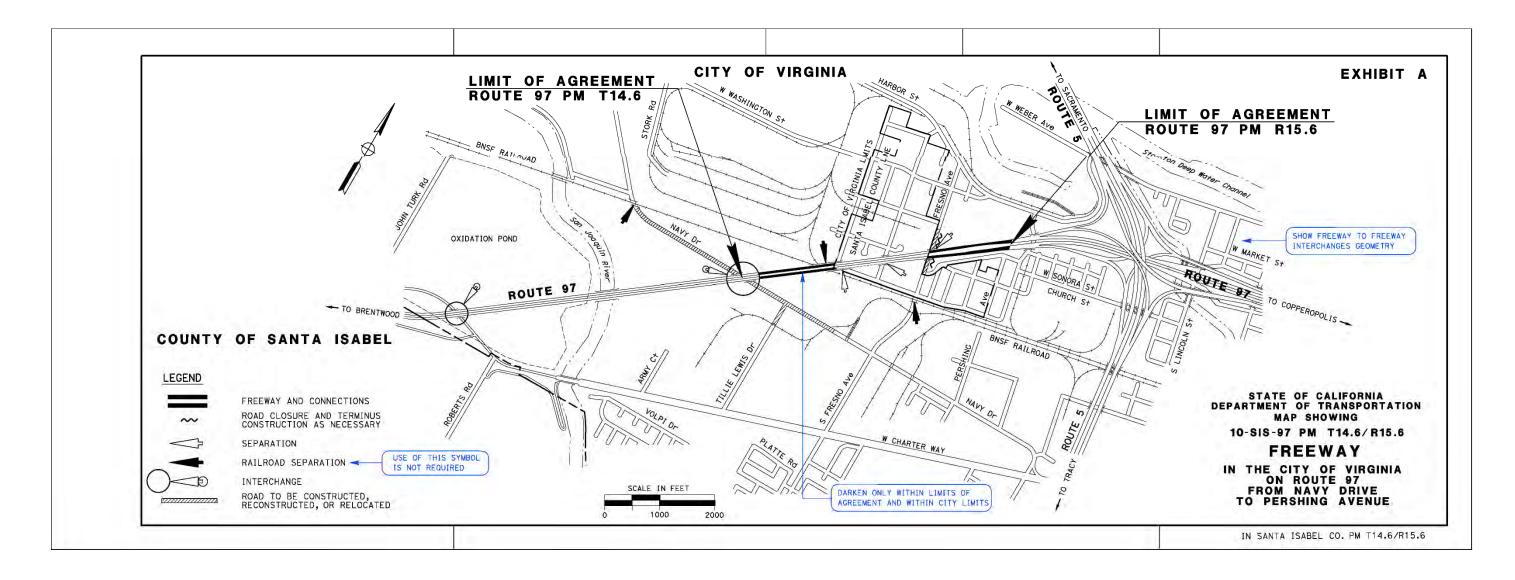


FIGURE 3-2.4D

Note:

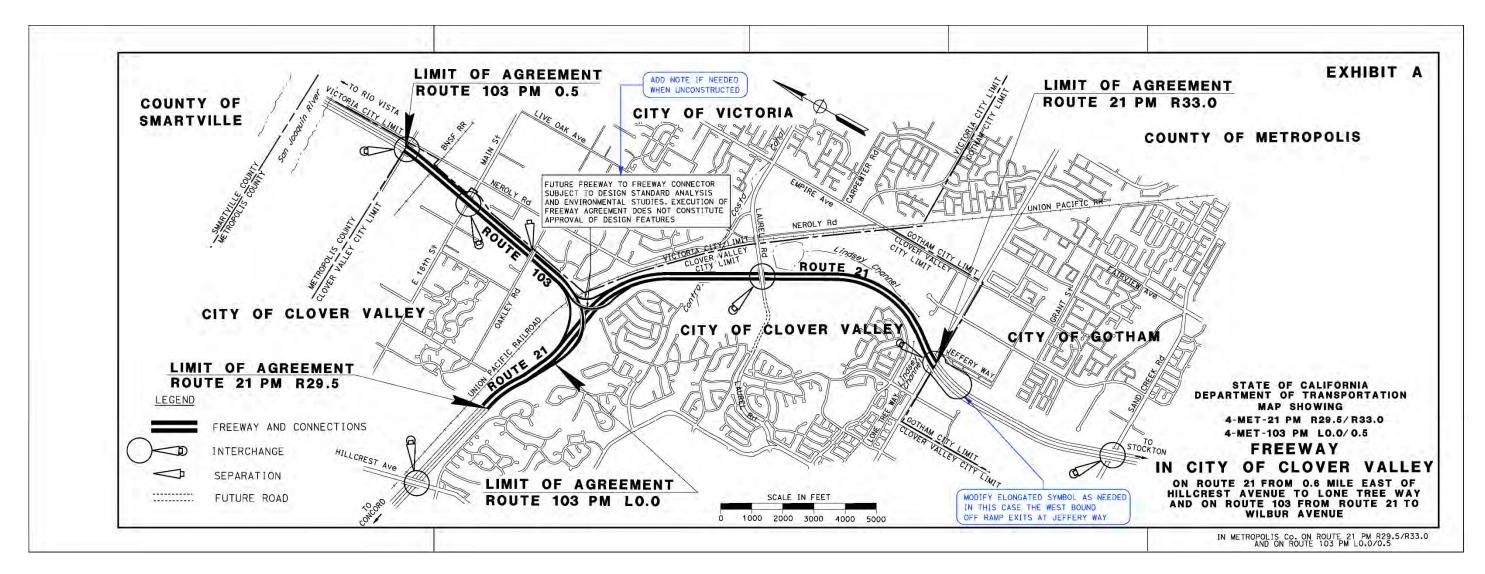
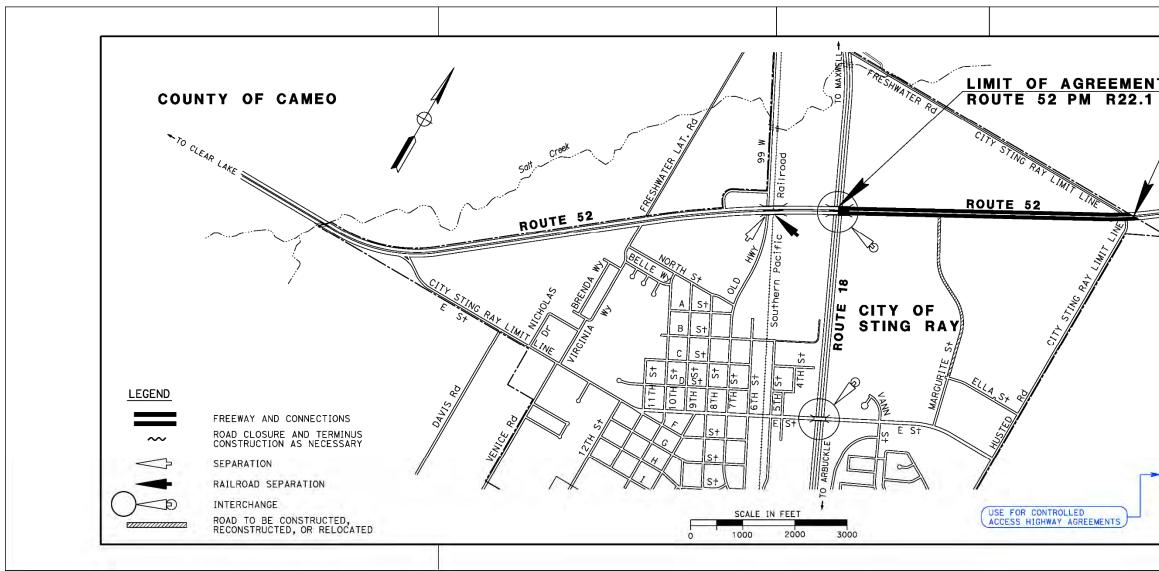


FIGURE 3-2.4E

Note:



CONTROLLED ACCESS HIGHWAY AGREEMENT – SYMBOLIC

FIGURE 3-2.4F

_	EXHIBIT A
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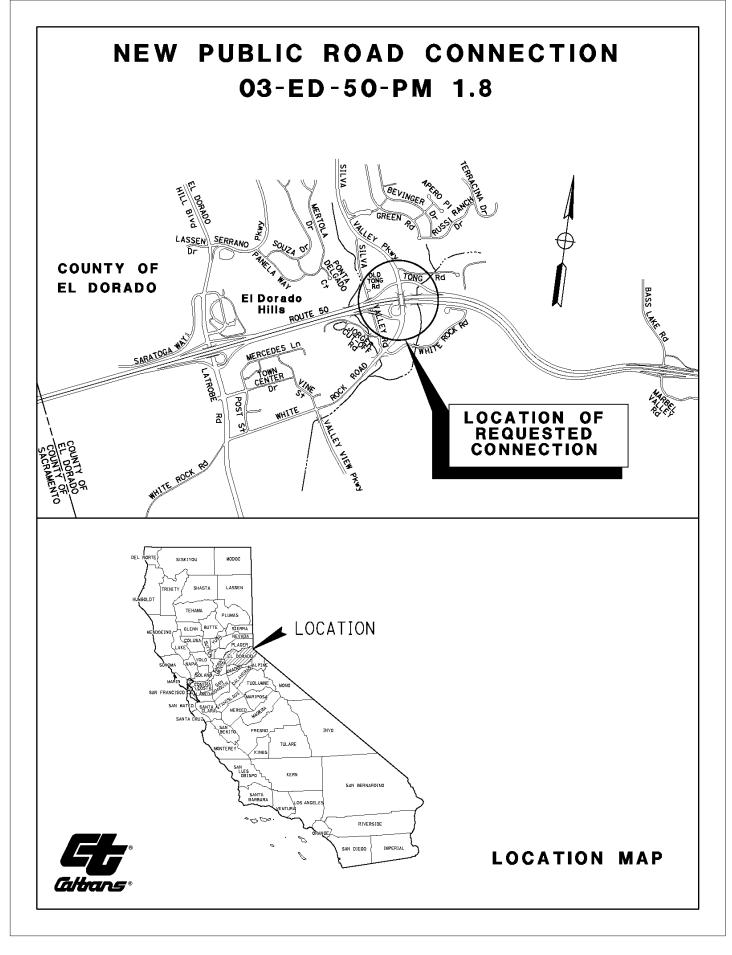
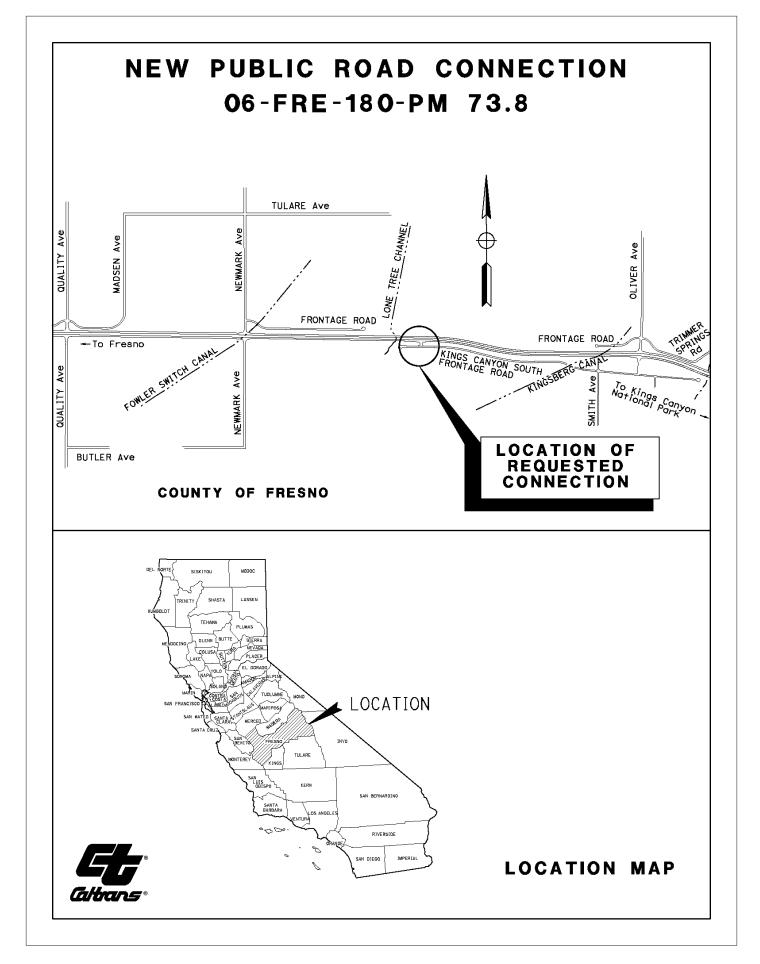


FIGURE 3-2.5A

FIGURE 3-2.5B



REQUEST TO CPUC STAFF FOR AUTHORIZATION TO ALTER HIGHWAY-RAIL CROSSING PURSUANT TO GENERAL ORDER 88-B



1. Date Submitted: September 9, 2010

2. Applicant Info

Аррисант шю	
Organization Name:	California Department of Transportation
Contact Person:	Denny Fong, P.E.
Title:	Senior Transportation Engineer
Street Address:	1120 N Street, MS-37
City:	Sacramento, CA
Zip:	95814
Phone:	(916) 654-3070
Email:	Denny_fong@dot.ca.gov

3. Crossing proposed to be altered

PUC Crossing Number:	001BM-513.40-A					
U.S. DOT Crossing Number:	761634W					
Street Name:	Orange FWY (SR 57) OH, known as Douglass OH					
City:	Anaheim					
County:	Orange					
Railroad Responsible for	Union Pacific Railroad					
Crossing:	Union Facine Ramoad					
Other Railroads Operating	N/A					
on Tracks:						

4. Describe Proposed Alterations (including any temporary reduced clearance variance requests):

The California Department of Transportation, in cooperation with the Orange County Transportation Authority (OCTA), proposes to widen the northbound State Route (SR) 57, between 0.31 miles south of Katella Avenue and 0.31 miles north of Lincoln Avenue within the city of Anaheim in Orange County, California. Douglass Overhead (OH) is within the project limits and will be widened approximately 20'6" to accommodate the widening of the SR 57. Douglass OH crosses over the single track mainline of the Union Pacific Railroad (UPRR) and Cerritos Avenue.

A CPUC G.O. 26-D variance is required for this location for the temporary construction vertical clearance of 21'0" in order to construct temporary falsework.

Request for Authorization to Alter Highway-Rail Crossing Pursuant to Commission General Order 88-B Page 1 of 4 Rev: 1-7-08

EXAMPLE A

Permanent vertical clearance is 23'0", which is in compliance with CPUC G.O. 26-D requirements.

UPRR is in agreement with the temporary horizontal and vertical clearances.

OCTA/Metrolink, Stadium (SR 57) OH, CPUC 1010R-170.80-A, US DOT 026976W, is within the project limits but there will be no involvement.

5. Describe the public benefits to be achieved by the proposed alterations:

The project is needed to relieve congestion. Existing northbound daily traffic conditions experience substantial congestion in the peak hour period and is forecasted to get worse. Projected northbound daily traffic volumes within the project limits for the design year of 2035 are expected to increase by more than 25 percent with the peak hour volumes expected to increase by nearly 75 percent. This project will reduce corridor delay, thereby providing a substantial benefit to the corridor and regional traffic circulation.

6. Explain why a separation of grades is not practicable:

N/A – This is an existing grade separated crossing.

7. Describe crossing warning devices

Current:	N/A – this is an existing grade separation
Proposed:	N/A - the crossing is to remain grade separated

8. Temporary Traffic Controls - Include a statement of temporary traffic controls to be provided during construction:

The temporary traffic controls shall be in accordance with the California Manual of Uniform Traffic Control Devices. UPRR will provide flagging for rail traffic during construction.

9. Signature

I, Denny Fong, P.E., am an employee of the State of California, Department of Transportation and authorized to sign this GO 88-B authorization request letter on its behalf.

9/9/10 Signature and date Denny Fong, P.

Senior Transportation Engine

Request for Authorization to Alter Highway-Rail Crossing Pursuant to Commission General Order 88-B Page 2 of 4

Rev: 1-7-08

EXAMPLE B

Attachments:

- Exhibit A Vicinity Map and Title Sheet
 Exhibit B Structure General Plan
- 3. Exhibit C Negative Declaration

Request for Authorization to Alter Highway-Rail Crossing Pursuant to Commission General Order 88-B Page 3 of 4

Rev: 1-7-08

EXAMPLE C

10. Evidence of Agreement:

I, Freddy Cheung, P.E., am an employee of Union Pacific Railroad Company and authorized to sign this letter of agreement on its behalf, hereby declare that Union Pacific Railroad Company concurs with the proposed project described above as the SR 57 northbound widening project between Katella Avenue and Lincoln Avenue in Orange County, CA.

9 10/2010 Freddy Cheung, P.E. Signature and date 2015 South Willow Avenue Bloomington, CA 92316 Address

Request for Authorization to Alter Highway-Rail Crossing Pursuant to Commission General Order 88-B Page 4 of 4 Rev: 1-7-08

EXAMPLE D

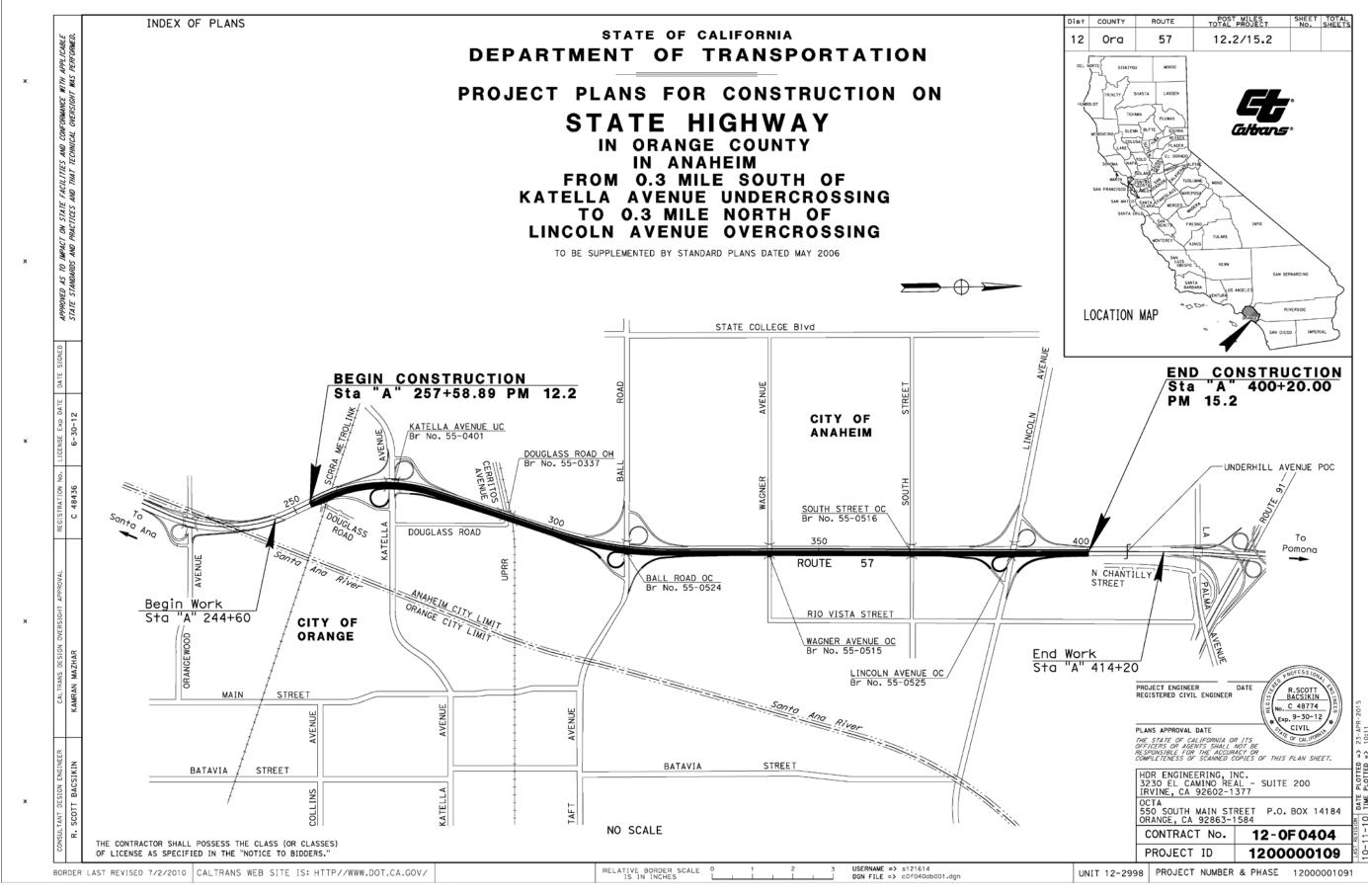


EXHIBIT A

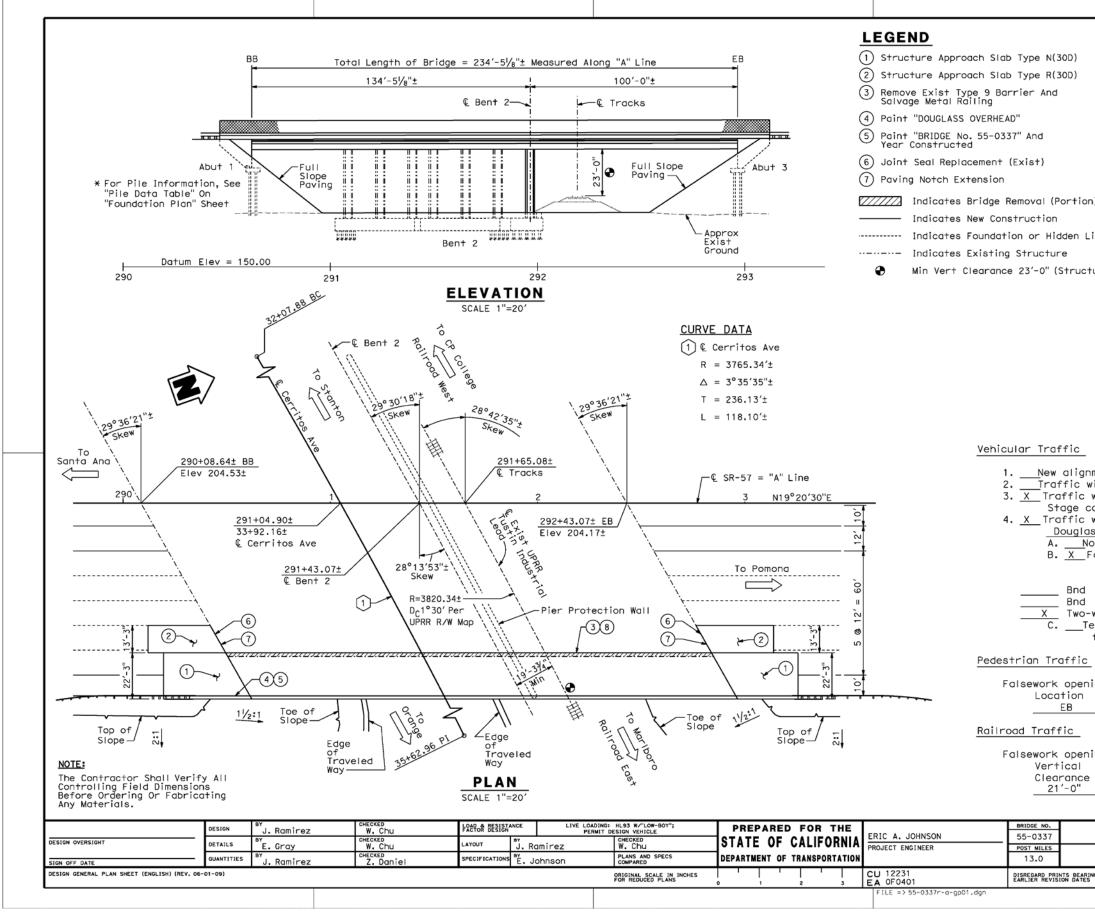


EXHIBIT B

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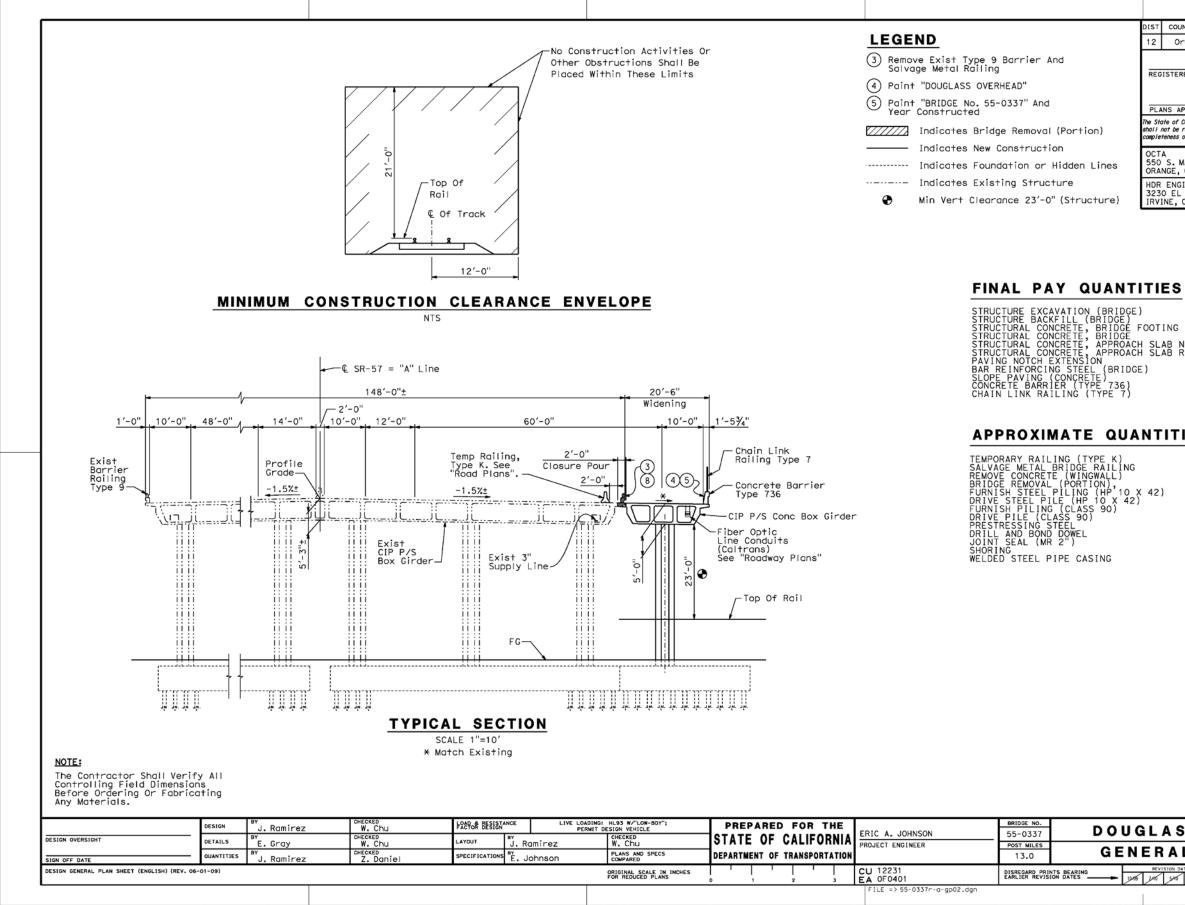


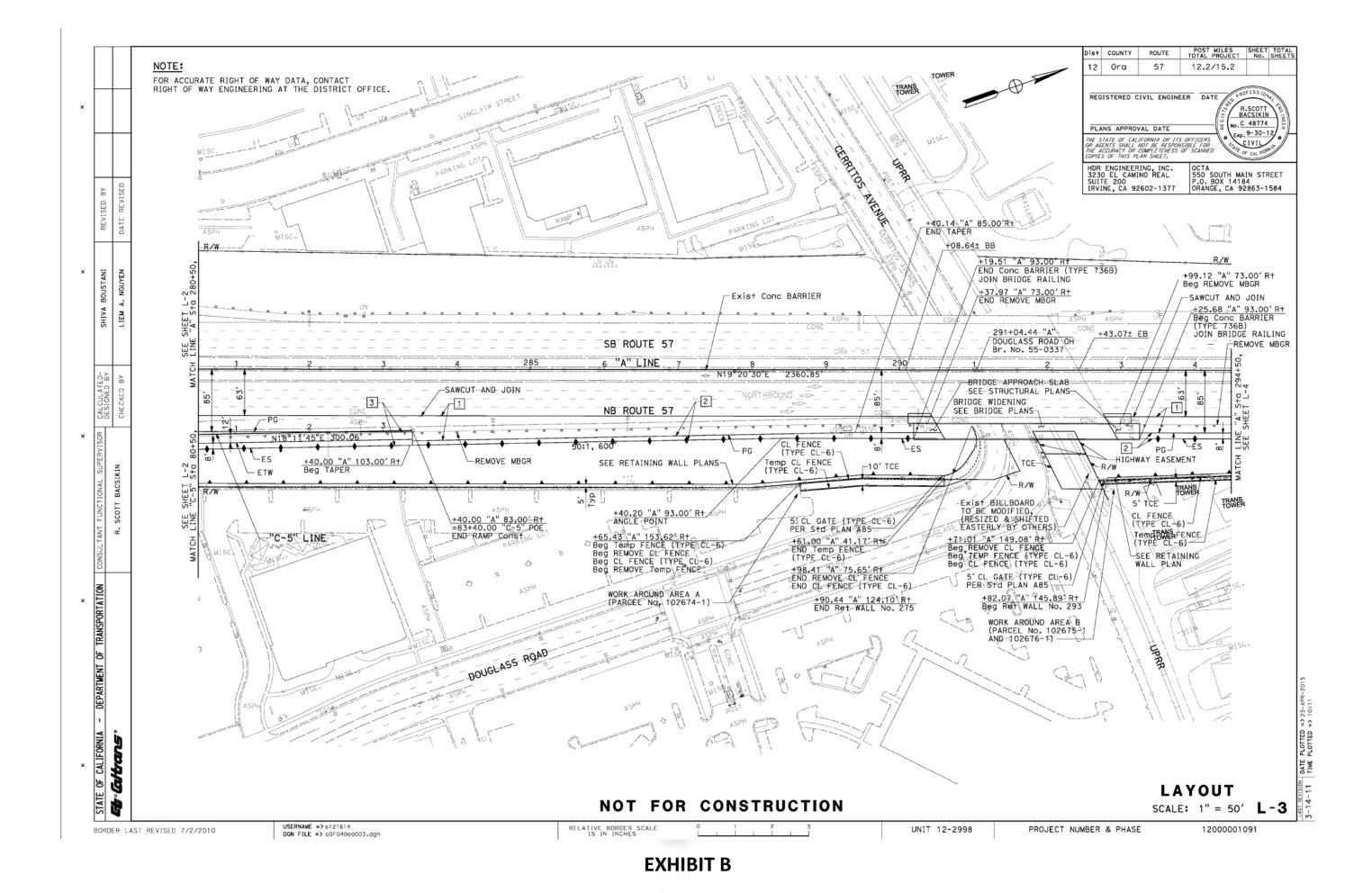
EXHIBIT B

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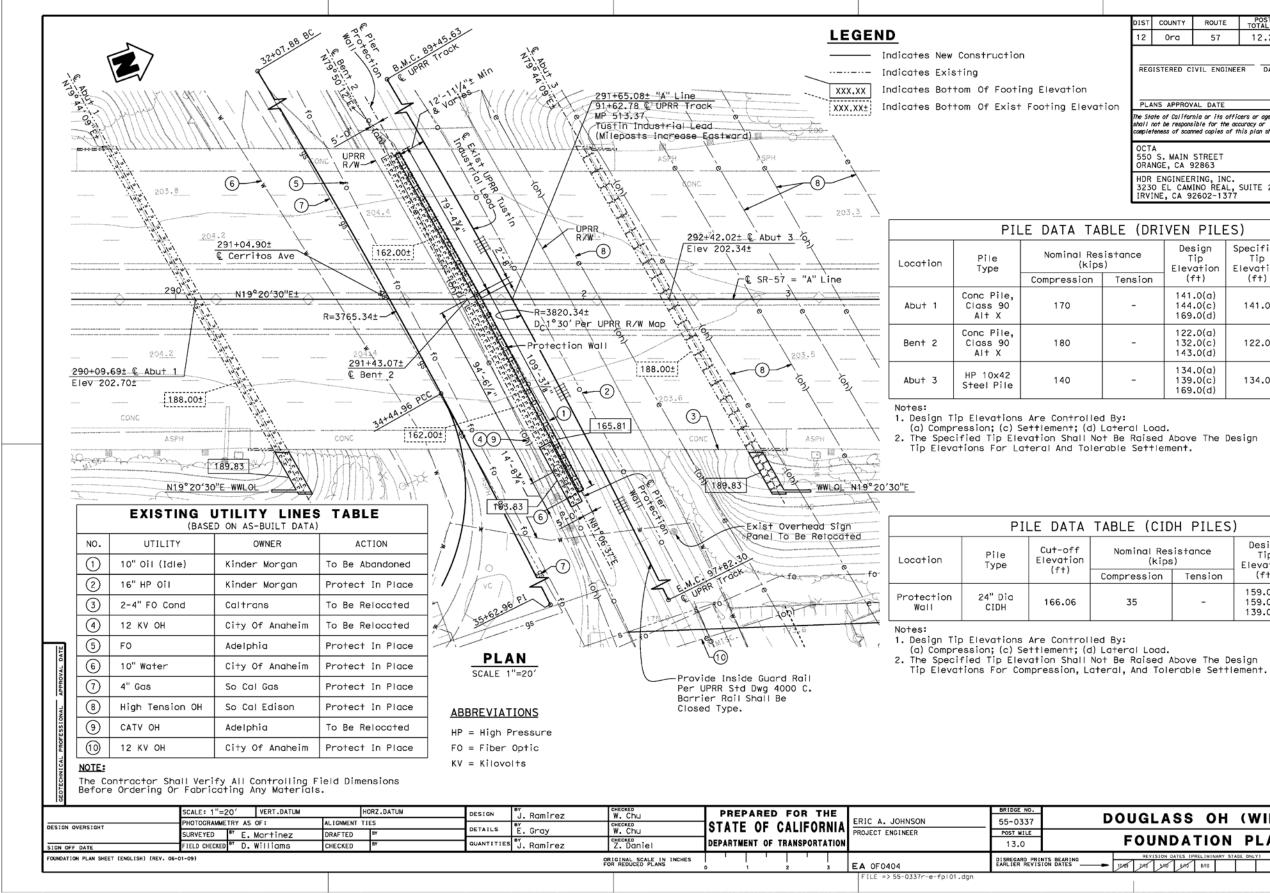


EXHIBIT B

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	HDR ENGINEERING, INC. 3230 EL CAMINO REAL, SUITE 200 IRVINE, CA 92602-1377					
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TABLE (DRIVEN PILES)				
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	-	122.0(a) 132.0(c) 143.0(d)	122.0	180
	-	134.0(a) 139.0(c) 169.0(d)	134.0	140

TABLE (CIDH PILES)				
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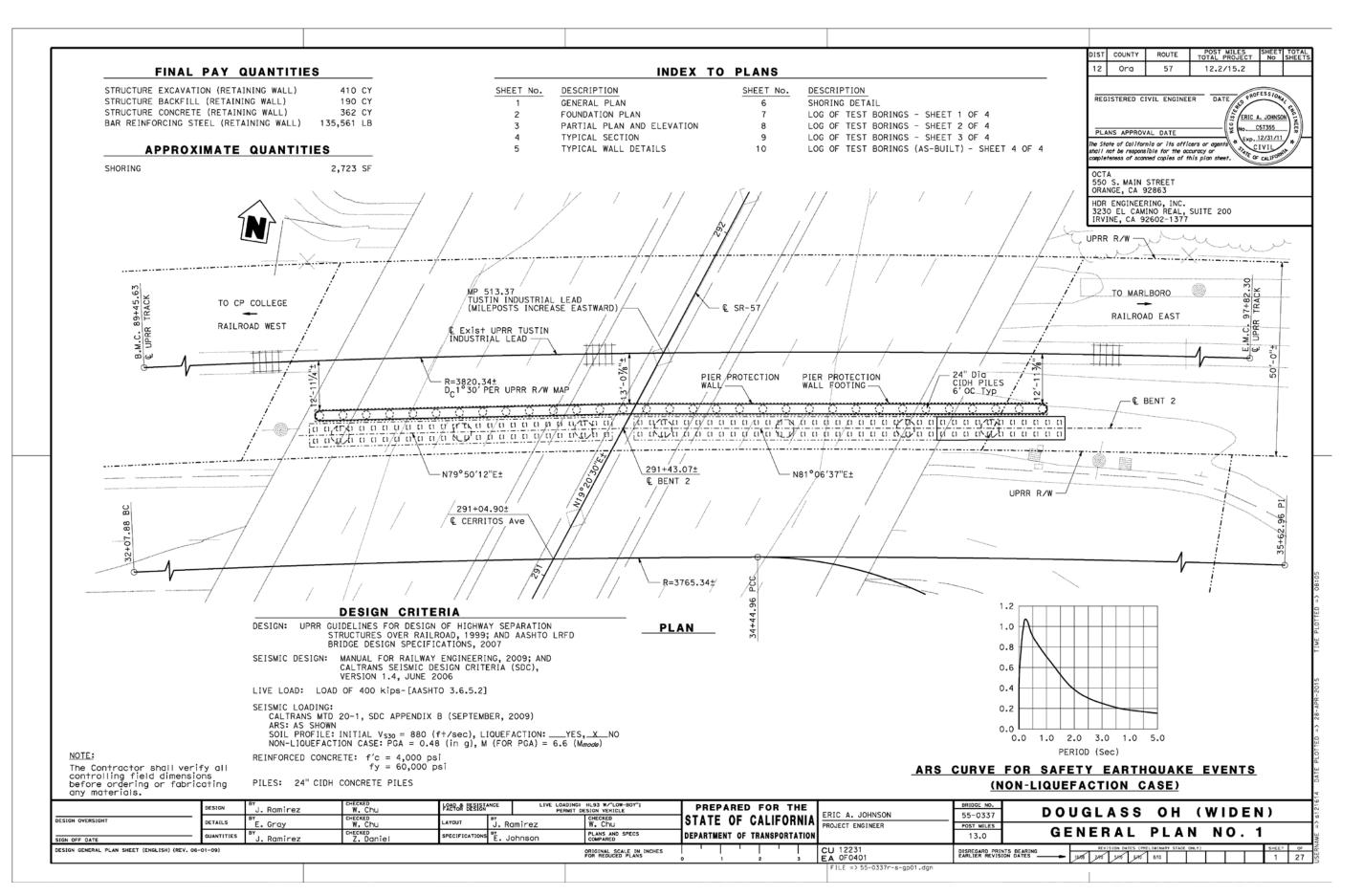


EXHIBIT B

12-ORA-57-PM 12.2/15.2 EA No.: 0F0400 SCH No. 2009031085

State Route 57 (SR-57), widen the northbound side between 0.31 mile south of Katella Avenue to 0.31 mile north of Lincoln Avenue (Post Mile [PM] 12.2 to PM 15.2) within the City of Anaheim in Orange County, California.

INITIAL STUDY WITH NEGATIVE DECLARATION Submitted Pursuant to: Division 13, California Public Resources Code

THE STATE OF CALIFORNIA Department of Transportation

NW 24, 2004 Date of Approval

CINDY QUON

District Director, District 12 California Department of Transportation

EXHIBIT C

NEGATIVE DECLARATION

SCH No. 2009031085

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

12-ORA-57-PM 12.2/15.2 EA No.: 0F0400

NEGATIVE DECLARATION Pursuant to: Division 13, Public Resources Code

Description

The California Department of Transportation District 12 (the Department), in cooperation with the Orange County Transportation Authority (OCTA), proposes to widen northbound State Route 57 (SR-57) between Katella Avenue and Lincoln Avenue within the City of Anaheim in Orange County, California. This project would reduce traffic congestion and maximize mainline mobility.

Determination

An Initial Study and Supplemental Initial Study have been prepared by the Department, District 12. On the basis of these studies it is determined that the proposed action will not have a significant effect upon the environment for the following reasons:

The Proposed Project would have no effect on: Farmland/Timberlands, Relocations, Floodplains, Paleontological Resources, Natural Communities, Plant Species, Threatened and Endangered Species, and Invasive Species.

In addition, the Proposed Project would have no significant effect on: Land Use, Growth, Community Character and Cohesion, Environmental Justice, Utilities/Emergency Services, Traffic/Transportation/Pedestrian and Bicycle Facilities, Visual/Aesthetics, Cultural Resources, Water Quality and Storm Water Runoff, Geology/Soils/Seismicity/Topography, Hazardous Waste/Materials, Air Quality, Noise, Wetlands and Other Waters, and Animal Species.

Nov 24 2009 Date

Cindy Quoh District Director District 12 California Department of Transportation

