Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	401	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

DRAINAGE QUANTITIES

		REMOVE ITEMS						Misc ITEMS							CONCRETE AND STEEL						APC				AFES				RCP		CFES	RSP									JACKED PIPE							
ABANDON CULVERT	ABANDON RCB	REMOVE RCB CULVERT	REMOVE WINGWALL	REMOVE CULVERT	REMOVE INLET	REMOVE FES	REMOVE HEADWALL	NPS 6 SUPPLY LINE (BRIDGE)	(N) SLURRY BACKFILL	(N) MINOR CONCRETE	CABLE RAILING	MISCELLANEOUS IRON AND STEEL	DRAINAGE INLET MARKER (STAMPED CONCRETE INLET)	DRAINAGE INLET MARKER (PLASTIC)	CLASS 2 CONCRETE (WINGWALLS)	CLASS 1 CONCRETE (BOX CULVERT)	MINOR CONCRETE (MINOR STRUCTURE)	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	BAR REINFORCING STEEL (WINGWALLS)	BAR REINFORCING STEEL (BOX CULVERT)	450 mm ALTERNATIVE PIPE CULVERT	600 mm ALTERNATIVE PIPE CULVERT	900 mm ALTERNATIVE PIPE CULVERT	1200 mm ALTERNATIVE PIPE CULVERT	450 mm ALTERNATIVE FLARED END SECTION	600 mm ALTERNATIVE FLARED END SECTION	900 mm ALTERNATIVE FLARED END SECTION	1200 mm ALTERNATIVE FLARED END SECTION	900 mm REINFORCED CONCRETE PIPE	1050 mm REINFORCED CONCRETE PIPE	900 mm CONCRETE FLARED END SECTION	CLEAN SAND AND GRAVEL	RSP (BACKING No. 1, METHOD B)	RSP (LIGHT, METHOD B)	RSP (1/4 T, METHOD B)	RSP (1/2 T, METHOD A)	RSP (1 T, METHOD B)	RSP FABRIC	(N) PERMEABLE MATERIAL	(N) PERMEABLE MATERIAL FABRIC	900 mm REINFORCED CONCRETE PIPE (CLASS III)	1200 mm REINFORCED CONCRETE PIPE (CLASS III)	80 mm PLASTIC PIPE (OUTLET)	DRAINAGE PLAN SHEET No.	DRAINAGE PROFILE No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	STATION	DESCRIPTION
m	EA	EA	EA	m	EA	EA	EA	m	m^3	m^3	m	kg	EA	EA	m^3	m^3	m^3	m^3	kg	kg	m	m	m	m	EA	EA	EA	EA	m	m	EA	m^3	m^3	m^3	m^3	m^3	m^3	m^2	m^3	m^2	m	m	m						
												68		1			2.97																										27	45	73	a	"RA2" 25+11.091	G4-DI (H=2.74) GRATE TYPE 450-10
												85					2.79																													b		G2-DI (H=2.59) GRATE TYPE 600-13
												85					2.76																													c		G2-DI (H=2.29) GRATE TYPE 600-13
												68		1			1.62																													d		G4-DI (H=1.83) GRATE TYPE 450-10
												68		1			1.14																													e		G5-DI (H=1.52) GRATE TYPE 450-10
												68		1			1.05																													f		G5-DI (H=1.37) GRATE TYPE 450-10
												68		1			0.97																													g		G5-DI (H=1.22) GRATE TYPE 450-10
												68		1			1.05																													h		G5-DI (H=1.37) GRATE TYPE 450-10
												68		1			0.97																													i		G5-DI (H=1.22) GRATE TYPE 450-10
												68		1			1.42																													j		G5-DI (H=1.52) GRATE TYPE 450-10
												68		1			1.05																													k		G5-DI (H=1.37) GRATE TYPE 450-10
												68		1			2.02																													l		G4-DI (H=2.44) GRATE TYPE 450-10
												68		1			1.72																													m		G4-DI (H=1.98) GRATE TYPE 450-10
												68		1			1.52																													n		G4-DI (H=1.68) GRATE TYPE 450-10
												68		1			1.42																													o		G4-DI (H=1.22) GRATE TYPE 450-10
												68		1			1.22																													p		G4-DI (H=1.22) GRATE TYPE 450-10
																					21.34																									q		450 mm APC
																					12.19																									r		450 mm APC
																					31.53																									s		450 mm APC
																					12.19																									t		450 mm APC
																					8.73																									u		450 mm APC
																					11.16																									v		450 mm APC
																					3.32																									w		450 mm APC
																					6.71																									x		450 mm APC
																					5.79																									y		450 mm APC
																					15.07																									z		450 mm APC
																					16.45																									aa		450 mm APC
																					18.88																									bb		450 mm APC
																					3.38																									cc		450 mm APC
																					18.62																									dd		450 mm APC
																					6.07																									ee		450 mm APC
																					14.68																									ff		450 mm APC
													1					1.60																													gg		CONCRETE APRON (G2-DI)
													1					1.67																													hh		CONCRETE APRON (G2-DI)
																									1																						ii		450 mm AFES
																																		3.4				12.9									jj		RSP (LIGHT, METHOD B)
												1122	2	14			25.69	3.27			206.11				1									3.4				12.9									SHEET TOTAL	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: KAO THAO
CHECKED BY: SCOTT FOSTER
REVISED BY: MGA
DATE REVISED: 05-30-11

DRAINAGE QUANTITIES
DQ-13

LAST REVISION 11-30-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:11

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	402	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

DRAINAGE QUANTITIES

		REMOVE ITEMS						Misc ITEMS							CONCRETE AND STEEL						APC				AFES				RCP		CFES	RSP									JACKED PIPE							
ABANDON CULVERT	ABANDON RCB	REMOVE RCB CULVERT	REMOVE WINGWALL	REMOVE CULVERT	REMOVE INLET	REMOVE FES	REMOVE HEADWALL	NPS 6 SUPPLY LINE (BRIDGE)	(N) SLURRY BACKFILL	(N) MINOR CONCRETE	CABLE RAILING	MISCELLANEOUS IRON AND STEEL	DRAINAGE INLET MARKER (STAMPED CONCRETE INLET)	DRAINAGE INLET MARKER (PLASTIC)	CLASS 2 CONCRETE (WINGWALLS)	CLASS 1 CONCRETE (BOX CULVERT)	MINOR CONCRETE (MINOR STRUCTURE)	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	BAR REINFORCING STEEL (WINGWALLS)	BAR REINFORCING STEEL (BOX CULVERT)	450 mm ALTERNATIVE PIPE CULVERT	600 mm ALTERNATIVE PIPE CULVERT	900 mm ALTERNATIVE PIPE CULVERT	1200 mm ALTERNATIVE PIPE CULVERT	450 mm ALTERNATIVE FLARED END SECTION	600 mm ALTERNATIVE FLARED END SECTION	900 mm ALTERNATIVE FLARED END SECTION	1200 mm ALTERNATIVE FLARED END SECTION	900 mm REINFORCED CONCRETE PIPE	1050 mm REINFORCED CONCRETE PIPE	900 mm CONCRETE FLARED END SECTION	CLEAN SAND AND GRAVEL	RSP (BACKING No. 1, METHOD B)	RSP (LIGHT, METHOD B)	RSP (1/4 T, METHOD B)	RSP (1/2 T, METHOD A)	RSP (1 T, METHOD B)	RSP FABRIC	(N) PERMEABLE MATERIAL	(N) PERMEABLE MATERIAL FABRIC	900 mm REINFORCED CONCRETE PIPE (CLASS III)	1200 mm REINFORCED CONCRETE PIPE (CLASS III)	80 mm PLASTIC PIPE (OUTLET)	DRAINAGE PLAN SHEET No.	DRAINAGE PROFILE No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	STATION	DESCRIPTION
m	EA	EA	EA	m	EA	EA	EA	m	m^3	m^3	m	kg	EA	EA	m^3	m^3	m^3	m^3	kg	kg	m	m	m	m	EA	EA	EA	EA	m	m	EA	m^3	m^3	m^3	m^3	m^3	m^3	m^2	m^3	m^2	m	m	m						
												85		1			1.11																										28	47	74	a	"W" 177+50.000	G3-DI (H=1.68) GRATE TYPE 600-13
												85		1			1.58																													b		G4-DI (H=1.83) GRATE TYPE 600-13
																					27.54																									c		450 mm APC
																						24.38																								d		600 mm APC
																																	21.7				72.7									e		RSP (LIGHT, METHOD B)
																										1																				f		600 mm AFES
																						18.29																					28	47	75	a	"QM2" 177+90.000	600 mm APC
																										1																				b		600 mm AFES
																																	3.6				13.4									c		RSP (LIGHT, METHOD B)
																																	4.7				16.6									d		RSP (LIGHT, METHOD B)
																										1																				e		600 mm AFES
												68		1			1.32																										27	48	76	a	"RA3" 30+48.086	G4-DI (H=1.37) GRATE TYPE 450-10
												68		1			1.72																													b		G4-DI (H=1.98) GRATE TYPE 450-11
																					22.33																									c		450 mm APC
																					12.19																									d		450 mm APC
																	0.83																													e		MODIFIED PIPE HEADWALL (450 mm)
																																	1.7				7.5							27			f		RSP (LIGHT, METHOD B)
												68		1			1.82																										28			g		G4-DI (H=2.13) GRATE TYPE 450-11
																					21.88																									h		450 mm APC
												68		1			1.72																													i		G4-DI (H=1.98) GRATE TYPE 450-11
																					10.58																							48		j		450 mm APC
												68		1			1.62																											49		k		G4-DI (H=1.83) GRATE TYPE 450-11
																					12.15																							28			l		450 mm APC
												68		1			1.32																										27			m		G4-DI (H=1.37) GRATE TYPE 450-10
																					29.63																							27			n		450 mm APC
																					10.67																							28			o		450 mm APC
																	0.83																													p		MODIFIED PIPE HEADWALL (450 mm)
																																	1.7				7.5								49		q		RSP (LIGHT, METHOD B)
												85					1.68																											50		r		G2-DI (H=1.98) GRATE TYPE 600-13
																						15.72																						48		s		600 mm APC
													1					1.60																										50		t		CONCRETE APRON (G2-DI)
																						53.84																								u		600 mm APC
												85					1.68																				0.45	4.46								v		G2-DI (H=1.98) GRATE TYPE 600-13
													1					1.60																												w		CONCRETE APRON (G2-DI)
												85		1			1.38																													x		G2-DI (H=1.52) GRATE TYPE 600-13
																						23.48																								y		600 mm APC
																						4.57																								z		600 mm APC
																										1																				aa		601 mm AFES
																																	4.8				16.6							28	50		bb		RSP (LIGHT, METHOD B)
												833	2	9			18.61	3.20			146.97	140.28				4							38.2				134.3	0.45	4.46				SHEET TOTAL				

DRAINAGE QUANTITIES
DQ-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: KAO THAO
CHECKED BY: SCOTT FOSTER
REVISED BY: MGA
DATE REVISED: 05-30-11

LAST REVISION 11-30-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:11

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	403	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

DRAINAGE QUANTITIES

		REMOVE ITEMS						Misc ITEMS							CONCRETE AND STEEL						APC				AFES				RCP		CFES	RSP									JACKED PIPE								
ABANDON CULVERT	ABANDON RCB	REMOVE RCB CULVERT	REMOVE WINGWALL	REMOVE CULVERT	REMOVE INLET	REMOVE FES	REMOVE HEADWALL	NPS 6 SUPPLY LINE (BRIDGE)	(N) SLURRY BACKFILL	(N) MINOR CONCRETE	CABLE RAILING	MISCELLANEOUS IRON AND STEEL	DRAINAGE INLET MARKER (STAMPED CONCRETE INLET)	DRAINAGE INLET MARKER (PLASTIC)	CLASS 2 CONCRETE (WINGWALLS)	CLASS 1 CONCRETE (BOX CULVERT)	MINOR CONCRETE (MINOR STRUCTURE)	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	BAR REINFORCING STEEL (WINGWALLS)	BAR REINFORCING STEEL (BOX CULVERT)	450 mm ALTERNATIVE PIPE CULVERT	600 mm ALTERNATIVE PIPE CULVERT	900 mm ALTERNATIVE PIPE CULVERT	1200 mm ALTERNATIVE PIPE CULVERT	450 mm ALTERNATIVE FLARED END SECTION	600 mm ALTERNATIVE FLARED END SECTION	900 mm ALTERNATIVE FLARED END SECTION	1200 mm ALTERNATIVE FLARED END SECTION	900 mm REINFORCED CONCRETE PIPE	1050 mm REINFORCED CONCRETE PIPE	900 mm CONCRETE FLARED END SECTION	CLEAN SAND AND GRAVEL	RSP (BACKING No. 1, METHOD B)	RSP (LIGHT, METHOD B)	RSP (1/4 T, METHOD B)	RSP (1/2 T, METHOD A)	RSP (1 T, METHOD B)	RSP FABRIC	(N) PERMEABLE MATERIAL	(N) PERMEABLE MATERIAL FABRIC	900 mm REINFORCED CONCRETE PIPE (CLASS III)	1200 mm REINFORCED CONCRETE PIPE (CLASS III)	80 mm PLASTIC PIPE (OUTLET)	DRAINAGE PLAN SHEET No.	DRAINAGE PROFILE No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	STATION	DESCRIPTION
m	EA	EA	EA	m	EA	EA	EA	m	m^3	m^3	m	kg	EA	EA	m^3	m^3	m^3	m^3	kg	kg	m	m	m	m	EA	EA	EA	EA	m	m	EA	m^3	m^3	m^3	m^3	m^3	m^3	m^2	m^3	m^2	m	m	m						
																						21.34																					28	51	77	a	"QM4" 178+62.500	900 mm APC
																									1																					b		900 mm AFES
																																		3.6			13.4									c		RSP (LIGHT, METHOD B)
																																		3.6			13.4									d		RSP (LIGHT, METHOD B)
																									1																					e		900 mm AFES
												85					1.58																					0.45	4.46				28	51	78	a	"QM4" 178+75.000	Mod G4-DI (H=1.83) GRATE TYPE 600-13
												85		1			0.94																													b		G3-DI (H=1.37) GRATE TYPE 600-13
																					11.09																									c		450 mm APC
													1					2.00																											d		GUTTER DEPRESSION
																					6.10																									e		450 mm APC
																	0.83																													f		MODIFIED PIPE HEADWALL (450 mm)
																																		4.0			14.5									g		RSP (LIGHT, METHOD B)
												85		1			1.19																									29	52	79	a	"W" 179+10.000	G3-DI (H=1.83) GRATE TYPE 600-13
												85		1			0.86																													b		G3-DI (H=1.22) GRATE TYPE 600-13
																					24.10																									c		450 mm APC
																						21.34																								d		600 mm APC
																									1																					e		600 mm AFES
																																		13.8			46.8									f		RSP (LIGHT, METHOD B)
												85		1			0.94																									29	52	80	a	"QM3" 179+55.000	G3-DI (H=1.37) GRATE TYPE 600-13
												85		1			1.19																													b		G3-DI (H=1.83) GRATE TYPE 600-13
																					9.11																									c		450 mm APC
																					10.67																									d		450 mm APC
																																		1.7			7.5									e		RSP (LIGHT, METHOD B)
																	0.83																													f		MODIFIED PIPE HEADWALL (450 mm)
																																								76.20			29	53	81	a	"NW2" 180+30.081	JACKED 900 mm RCP
																															1															b		900 mm CFES
																																		9.2			25.1									c		RSP (LIGHT, METHOD B)
																																		6.0			17.8									d		RSP (LIGHT, METHOD B)
																															1															e		900 mm CFES
												85					0.86																									29	53	82	a	"NW2" 180+37.644	G1-DI (H=1.22) GRATE TYPE 600-13
												85		1			1.19																													b		G3-DI (H=1.83) GRATE TYPE 600-13
																						17.48																								c		600 mm APC
																																		8.0			28.0									d		RSP (LIGHT, METHOD B)
																									1																					e		600 mm AFES
																						18.29																								f		600 mm APC
													1					1.50																												g		CONCRETE APRON (G1-DI)
												680	2	6			10.41	3.50			61.07	78.45			4						2			49.9			166.5	0.45	4.46	76.20			SHEET TOTAL					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: KAO THAO
CHECKED BY: SCOTT FOSTER
REVISED BY: MGA
DATE REVISED: 05-30-11

DRAINAGE QUANTITIES
DQ-15

LAST REVISION 11-30-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:08

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	404	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

DRAINAGE QUANTITIES

		REMOVE ITEMS						Misc ITEMS							CONCRETE AND STEEL						APC				AFES				RCP		CFES	RSP									JACKED PIPE							
ABANDON CULVERT	ABANDON RCB	REMOVE RCB CULVERT	REMOVE WINGWALL	REMOVE CULVERT	REMOVE INLET	REMOVE FES	REMOVE HEADWALL	NPS 6 SUPPLY LINE (BRIDGE)	(N) SLURRY BACKFILL	(N) MINOR CONCRETE	CABLE RAILING	MISCELLANEOUS IRON AND STEEL	DRAINAGE INLET MARKER (STAMPED CONCRETE INLET)	DRAINAGE INLET MARKER (PLASTIC)	CLASS 2 CONCRETE (WINGWALLS)	CLASS 1 CONCRETE (BOX CULVERT)	MINOR CONCRETE (MINOR STRUCTURE)	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	BAR REINFORCING STEEL (WINGWALLS)	BAR REINFORCING STEEL (BOX CULVERT)	450 mm ALTERNATIVE PIPE CULVERT	600 mm ALTERNATIVE PIPE CULVERT	900 mm ALTERNATIVE PIPE CULVERT	1200 mm ALTERNATIVE PIPE CULVERT	450 mm ALTERNATIVE FLARED END SECTION	600 mm ALTERNATIVE FLARED END SECTION	900 mm ALTERNATIVE FLARED END SECTION	1200 mm ALTERNATIVE FLARED END SECTION	900 mm REINFORCED CONCRETE PIPE	1050 mm REINFORCED CONCRETE PIPE	900 mm CONCRETE FLARED END SECTION	CLEAN SAND AND GRAVEL	RSP (BACKING No. 1, METHOD B)	RSP (LIGHT, METHOD B)	RSP (1/4 T, METHOD B)	RSP (1/2 T, METHOD A)	RSP (1 T, METHOD B)	RSP FABRIC	(N) PERMEABLE MATERIAL	(N) PERMEABLE MATERIAL FABRIC	900 mm REINFORCED CONCRETE PIPE (CLASS III)	1200 mm REINFORCED CONCRETE PIPE (CLASS III)	80 mm PLASTIC PIPE (OUTLET)	DRAINAGE PLAN SHEET No.	DRAINAGE PROFILE No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	STATION	DESCRIPTION
m	EA	EA	EA	m	EA	EA	EA	m	m^3	m^3	m	kg	EA	EA	m^3	m^3	m^3	m^3	kg	kg	m	m	m	m	EA	EA	EA	EA	m	m	EA	m^3	m^3	m^3	m^3	m^3	m^3	m^2	m^3	m^2	m	m	m						
													1					2.00																								29	54	83	a	"QM3" 180+55.000	GUTTER DEPRESSION
												85					1.19																												b		G3-DI (H=1.83) GRATE TYPE 600-13
																					6.10																									c		450 mm APC
																																	6.1			23.4									d		RSP (LIGHT, METHOD B)
																	0.83																													e		MODIFIED PIPE HEADWALL (450 mm)
																																								49.99			29	54	84	a	"NW2" 181+51.089	JACKED 900 mm RCP (CLASS III)
																															1															b		900 mm CFES
																																	9.2			25.1									c		RSP (LIGHT, METHOD B)
																																	9.2			25.1									d		RSP (LIGHT, METHOD B)
																															1															e		900 mm CFES
																																								40.23			31	55	85	a	"NW2" 183+93.100	JACKED 900 mm RCP (CLASS III)
																															1															b		900 mm CFES
																																	9.2			25.1									c		RSP (LIGHT, METHOD B)
																																	9.2			25.1									d		RSP (LIGHT, METHOD B)
																															1															e		900 mm CFES
						1																																				31	55	86	a	"F" 17+74.366	REMOVE FES
					4.1																																									b		REMOVE CULVERT (600 mm)
																	1.07																													c		MODIFIED PIPE HEADWALL (600 mm)
																																	2.2			8.8									d		RSP (LIGHT, METHOD B)
												85		1			1.58																				0.45	4.46				31	56	87	a	"NW2" 186+01.000	G4-DI (H=1.83) GRATE TYPE 600-13
												85		1			0.94																													b		G3-DI (H=1.37) GRATE TYPE 600-13
																					12.92																									c		450 mm APC
																					7.90																									d		450 mm APC
																																	2.9			13.2									e		RSP (LIGHT, METHOD B)
																									1																					f		450 mm AFES
																						24.21																					32	56	88	a	"F" 19+91.014	600 mm APC
																	1.07																													b		MODIFIED PIPE HEADWALL (600 mm)
																																	3.1			11.8									c		RSP (LIGHT, METHOD B)
																	1.07																													d		MODIFIED PIPE HEADWALL (600 mm)
																																	1.8			7.4									e		RSP (LIGHT, METHOD B)
						1																																				32	56	89	a	"NW2" 187+09.916	REMOVE HEADWALL
					15.8																																									b		REMOVE CULVERT (900 mm)
						1																																								c		REMOVE INLET
					13.7																																									d		REMOVE CULVERT (900 mm)
							1																																							e		REMOVE FES
					33.6	1	2	1						255	1	2			7.75	2.00			26.92	24.21			1					4		52.9			165.0	0.45	4.46	90.22			SHEET TOTAL					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

KAO THAO — REVISED BY MGA
SCOTT FOSTER — DATE REVISED 05-30-11
CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

LAST REVISION 11-30-11 DATE PLOTTED => 28-JAN-2012 TIME PLOTTED => 06:08

DRAINAGE QUANTITIES
DQ-16

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	405	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

DRAINAGE QUANTITIES

		REMOVE ITEMS						Misc ITEMS							CONCRETE AND STEEL						APC				AFES				RCP		CFES	RSP									JACKED PIPE							
ABANDON CULVERT	ABANDON RCB	REMOVE RCB CULVERT	REMOVE WINGWALL	REMOVE CULVERT	REMOVE INLET	REMOVE FES	REMOVE HEADWALL	NPS 6 SUPPLY LINE (BRIDGE)	(N) SLURRY BACKFILL	(N) MINOR CONCRETE	CABLE RAILING	MISCELLANEOUS IRON AND STEEL	DRAINAGE INLET MARKER (STAMPED CONCRETE INLET)	DRAINAGE INLET MARKER (PLASTIC)	CLASS 2 CONCRETE (WINGWALLS)	CLASS 1 CONCRETE (BOX CULVERT)	MINOR CONCRETE (MINOR STRUCTURE)	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	BAR REINFORCING STEEL (WINGWALLS)	BAR REINFORCING STEEL (BOX CULVERT)	450 mm ALTERNATIVE PIPE CULVERT	600 mm ALTERNATIVE PIPE CULVERT	900 mm ALTERNATIVE PIPE CULVERT	1200 mm ALTERNATIVE PIPE CULVERT	450 mm ALTERNATIVE FLARED END SECTION	600 mm ALTERNATIVE FLARED END SECTION	900 mm ALTERNATIVE FLARED END SECTION	1200 mm ALTERNATIVE FLARED END SECTION	900 mm REINFORCED CONCRETE PIPE	1050 mm REINFORCED CONCRETE PIPE	900 mm CONCRETE FLARED END SECTION	CLEAN SAND AND GRAVEL	RSP (BACKING No. 1, METHOD B)	RSP (LIGHT, METHOD B)	RSP (1/4 T, METHOD B)	RSP (1/2 T, METHOD A)	RSP (1 T, METHOD B)	RSP FABRIC	(N) PERMEABLE MATERIAL	(N) PERMEABLE MATERIAL FABRIC	900 mm REINFORCED CONCRETE PIPE (CLASS III)	1200 mm REINFORCED CONCRETE PIPE (CLASS III)	80 mm PLASTIC PIPE (OUTLET)	DRAINAGE PLAN SHEET No.	DRAINAGE PROFILE No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	STATION	DESCRIPTION
m	EA	EA	EA	m	EA	EA	EA	m	m^3	m^3	m	kg	EA	EA	m^3	m^3	m^3	m^3	kg	kg	m	m	m	m	EA	EA	EA	EA	m	m	EA	m^3	m^3	m^3	m^3	m^3	m^3	m^2	m^3	m^2	m	m	m						
																							30.48																				32	57	90	a	"NW2" 187+15.689	900 mm APC
																	1.95																													b		MODIFIED PIPE HEADWALL (900 mm)
											3.05																																			c		CABLE RAILING
																																	9.2			25.1										d		RSP (LIGHT, METHOD B)
																																	4.8			14.8										e		RSP (LIGHT, METHOD B)
											3.05																																			f		CABLE RAILING
																	1.95																													g		MODIFIED PIPE HEADWALL (900 mm)
																						13.72																					32	57	91	a	"DW10" 10+04.000	600 mm APC
																	1.07																													b		MODIFIED PIPE HEADWALL (600 mm)
																	1.07																													c		MODIFIED PIPE HEADWALL (600 mm)
																																	3.1			11.7										d		RSP (LIGHT, METHOD B)
																																	3.2			12.1										e		RSP (LIGHT, METHOD B)
				29.8																																						32	58	92	a	"NW2" 187+29.459	REMOVE CULVERT (300 mm)
				19.3																																						32	58	93	a	"NW2" 188+60.180	REMOVE CULVERT (300 mm)
																							27.43																				32	59	94	a	"NW2" 188+95.992	900 mm APC
																											1																			b		900 mm AFES
																																	10.2			27.5										c		RSP (LIGHT, METHOD B)
																																	10.2			27.5										d		RSP (LIGHT, METHOD B)
																											1																			e		900 mm AFES
						1																																				32	59	95	a	"NW2" 189+19.491	REMOVE HEADWALL
				16.8																																										b		REMOVE CULVERT (900 mm)
				65.9			1				6.10						6.04					13.72	57.91				2							40.7			118.7						SHEET TOTAL					

DRAINAGE QUANTITIES
DQ-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: KAO THAO
CHECKED BY: SCOTT FOSTER
REVISED BY: MGA
DATE REVISED: 05-30-11

LAST REVISION 11-30-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:08

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	406	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

DRAINAGE QUANTITIES

	REMOVE ITEMS							Misc ITEMS							CONCRETE AND STEEL						APC				AFES				RCP		CFES	RSP								JACKED PIPE							
	ABANDON CULVERT	ABANDON RCB	REMOVE RCB CULVERT	REMOVE WINGWALL	REMOVE CULVERT	REMOVE INLET	REMOVE FES	REMOVE HEADWALL	NPS 6 SUPPLY LINE (BRIDGE)	(N) SLURRY BACKFILL	(N) MINOR CONCRETE	CABLE RAILING	MISCELLANEOUS IRON AND STEEL	DRAINAGE INLET MARKER (STAMPED CONCRETE INLET)	DRAINAGE INLET MARKER (PLASTIC)	CLASS 2 CONCRETE (WINGWALLS)	CLASS 1 CONCRETE (BOX CULVERT)	MINOR CONCRETE (MINOR STRUCTURE)	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	BAR REINFORCING STEEL (WINGWALLS)	BAR REINFORCING STEEL (BOX CULVERT)	450 mm ALTERNATIVE PIPE CULVERT	600 mm ALTERNATIVE PIPE CULVERT	900 mm ALTERNATIVE PIPE CULVERT	1200 mm ALTERNATIVE PIPE CULVERT	450 mm ALTERNATIVE FLARED END SECTION	600 mm ALTERNATIVE FLARED END SECTION	900 mm ALTERNATIVE FLARED END SECTION	1200 mm ALTERNATIVE FLARED END SECTION	900 mm REINFORCED CONCRETE PIPE	1050 mm REINFORCED CONCRETE PIPE	900 mm CONCRETE FLARED END SECTION	CLEAN SAND AND GRAVEL	RSP (BACKING No. 1, METHOD B)	RSP (LIGHT, METHOD B)	RSP (1/4 T, METHOD B)	RSP (1/2 T, METHOD A)	RSP (1 T, METHOD B)	RSP FABRIC	(N) PERMEABLE MATERIAL	(N) PERMEABLE MATERIAL FABRIC	900 mm REINFORCED CONCRETE PIPE (CLASS III)	1200 mm REINFORCED CONCRETE PIPE (CLASS III)	80 mm PLASTIC PIPE (OUTLET)	DRAINAGE PLAN SHEET No.	DRAINAGE DETAIL SHEET No.	DRAINAGE BASIN No.	DRAINAGE BASIN UNIT	STATION	DESCRIPTION
m	EA	EA	EA	m	EA	EA	EA	m	m^3	m^3	m	kg	EA	EA	m^3	m^3	m^3	m^3	kg	kg	m	m	m	m	EA	EA	EA	EA	m	m	EA	m^3	m^3	m^3	m^3	m^3	m^3	m^2	m^3	m^2	m	m	m					
												85						1.38																								3	37	1	a	"A" 102+61.854	Mod G2-DI (H=1.22) GRATE TYPE 600-13
							1																											8.7				27.6									b		RSP (LIGHT, METHOD B)
																																														c		REMOVE FES
																						1.19																									d		600 mm APC
																																		7.6				26.8									e		RSP (LIGHT, METHOD B)
												85						0.98																								8	38	2	a	"AN" 34+30.000	Mod G2-DI (H=0.91) GRATE TYPE 600-13
																																		5.1				18.4									b		RSP (LIGHT, METHOD B)
																					12.19																									c		450 mm APC
																																		20.8				77.1									d		RSP (LIGHT, METHOD B)
																		0.83																													e		MODIFIED PIPE HEADWALL (450 mm)
																																	16.6					48.0									f		RSP (BACKING No. 1, METHOD B)
																14.67				376																							11	39	3	a	"A" 127+50.000	MODIFIED PIPE HEADWALL (229 mm)
																																		19.9				49.1									b		RSP (LIGHT, METHOD B)
												85						0.69																								17	40	4	a	"A" 145+75.000	Mod G1-DI (H=1.22) GRATE TYPE 600-13
																																	3.6					16.1									b		RSP (BACKING No. 1, METHOD B)
																									1																					c		450 mm AFES
																																		2.0				8.6									d		RSP (LIGHT, METHOD B)
																					30.48																									e		450 mm APC
												85						0.69																								18	41	5	a	"A" 147+50.000	Mod G1-DI (H=0.91) GRATE TYPE 600-13
																					9.14																									b		450 mm APC
																									1																					c		450 mm AFES
																																		3.2				8.6									d		RSP (LIGHT, METHOD B)
																																	2.0					12.5									e		RSP (BACKING No. 1, METHOD B)
																11.77				302																							25	42	6	a	"QM2" 174+50.000	MODIFIED WINGWALL (229 mm)
																																		22.7				53.0									b		RSP (LIGHT, METHOD B)
																11.77				302																							27	43	7	a	"QM1" 177+02.550	MODIFIED WINGWALL (305 mm)
																																		19.0				46.1									b		RSP (LIGHT, METHOD B)
																																											29	44	8	-	"NW2" 180+30.000	FOR QUANTITIES, SEE DRAINAGE SYSTEM No. 81
																																	30.6					77.3				60.0						Br No. 10-0128R - Rte 101/20 SEPARATION
																																	30.6					77.3				60.0						Br No. 10-0128L - Rte 101/20 SEPARATION
																																230.7	571.1	519.3	124.2	188.5		160.4				60.0		13, 47				Br No. 10-0129G - E20-101 CONNECTOR BRIDGE
																																256.9	679.3	488.4	143.6	189.1		62.1				60.0		13, 46				Br No. 10-0129R - HAEHL CREEK
																																162.6	538.2	325.5	110.6	216.5		92.5				60.0		13, 46				Br No. 10-0129L - HAEHL CREEK
																																272.1	614.1	540.0	40.7	144.1		92.5				60.0		13, 45				Br No. 10-0129F - S101-W20 CONNECTOR BRIDGE
																																	12.2					31.6				60.0		13				Br No. 10-0157 - EAST HILL ROAD UC
																																	1273.6		1795.7			92.5				60.0		13, 15				Br No. 10-0159 - HAEHL CREEK
																																	12.2					31.6				60.0		13				Br No. 10-0165 - FLOODWAY VIADUCT
																																	78.3			119.5							21	-	-	a		BENT 24 (Br No. 10-0165 - FLOODWAY VIADUCT)
																																	12.2					31.6				60.0		13				Br No. 10-0171 - QUAIL MEADOWS OH
																																	12.2					31.6				60.0		13				Br No. 10-0173 - QUAIL MEADOWS UC
																																	362.1	462.4				31.6				60.0		13, 19, 48				Br No. 10-0174K - UPP CREEK (SB ON-RAMP)
																																	488.8	509.4				31.6				60.0		13, 19, 48				Br No. 10-0174 - UPP CREEK BRIDGE
																																	611.4	694.7				31.6				60.0		13, 19, 48				Br No. 10-0174S - UPP CREEK (NB ON-RAMP)
																																292.4	1041.7	851.3		717.6		31.6				60.0		13, 19, 49, 50				Br No. 10-0305 - UPP CREEK BRIDGE
																																	149.4		185.7								17	17, 52				10E0009 - BAECHTEL CREEK RETAINING WALL
																																	2590.9										7,8	13				CHECK DAM
							1					340			38.21		4.57		980		51.81	1.19			2							1214.7	9131.1	4500.0	2400.5	1575.3		1299.3				900.0		SHEET TOTAL				

DRAINAGE QUANTITIES
DQ-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: KAO THAO
CHECKED BY: SCOTT FOSTER
REVISED BY: MGA
DATE REVISED: 05-30-11

LAST REVISION 12-02-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:09

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	407	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

DRAINAGE QUANTITIES

		REMOVE ITEMS						Misc ITEMS							CONCRETE AND STEEL						APC				AFES				RCP		CFES	RSP									JACKED PIPE								
ABANDON CULVERT	ABANDON RCB	REMOVE RCB CULVERT	REMOVE WINGWALL	REMOVE CULVERT	REMOVE INLET	REMOVE FES	REMOVE HEADWALL	NPS 6 SUPPLY LINE (BRIDGE)	(N) SLURRY BACKFILL	(N) MINOR CONCRETE	CABLE RAILING	MISCELLANEOUS IRON AND STEEL	DRAINAGE INLET MARKER (STAMPED CONCRETE INLET)	DRAINAGE INLET MARKER (PLASTIC)	CLASS 2 CONCRETE (WINGWALLS)	CLASS 1 CONCRETE (BOX CULVERT)	MINOR CONCRETE (MINOR STRUCTURE)	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	BAR REINFORCING STEEL (WINGWALLS)	BAR REINFORCING STEEL (BOX CULVERT)	450 mm ALTERNATIVE PIPE CULVERT	600 mm ALTERNATIVE PIPE CULVERT	900 mm ALTERNATIVE PIPE CULVERT	1200 mm ALTERNATIVE PIPE CULVERT	450 mm ALTERNATIVE FLARED END SECTION	600 mm ALTERNATIVE FLARED END SECTION	900 mm ALTERNATIVE FLARED END SECTION	1200 mm ALTERNATIVE FLARED END SECTION	900 mm REINFORCED CONCRETE PIPE	1050 mm REINFORCED CONCRETE PIPE	900 mm CONCRETE FLARED END SECTION	CLEAN SAND AND GRAVEL	RSP (BACKING No. 1, METHOD B)	RSP (LIGHT, METHOD B)	RSP (1/4 T, METHOD B)	RSP (1/2 T, METHOD A)	RSP (1 T, METHOD B)	RSP FABRIC	(N) PERMEABLE MATERIAL	(N) PERMEABLE MATERIAL FABRIC	900 mm REINFORCED CONCRETE PIPE (CLASS III)	1200 mm REINFORCED CONCRETE PIPE (CLASS III)	80 mm PLASTIC PIPE (OUTLET)	DRAINAGE PLAN SHEET No.	DRAINAGE DETAIL SHEET No.	TEMPORARY DRAINAGE SYSTEM No.	DRAINAGE UNIT	STATION	DESCRIPTION
m	EA	EA	EA	m	EA	EA	EA	m	m^3	m^3	m	kg	EA	EA	m^3	m^3	m^3	m^3	kg	kg	m	m	m	m	EA	EA	EA	EA	m	m	EA	m^3	m^3	m^3	m^3	m^3	m^3	m^2	m^3	m^2	m	m	m						
									21.97														37.63																			12	20, 27	1	a	"A" 129+15.000	1200 mm APC
																												1																		b		1200 mm AFES
																																	26.5				50.2										c		RSP (LIGHT, METHOD B)
																																	26.5				50.2										d		RSP (LIGHT, METHOD B)
																												1																		e		1200 mm AFES
									18.19													41.54																					13	21, 28	2	a	"A" 133+15.000	900 mm APC
																											1																			b		900 mm AFES
																																	10.2				27.5										c		RSP (LIGHT, METHOD B)
																																	10.2				27.5										d		RSP (LIGHT, METHOD B)
																											1																			e		900 mm AFES
									23.35													53.33																					23	22, 29	3	a	"W" 168+50.000	900 mm APC
																											1																			b		900 mm AFES
																																	10.2				27.5										c		RSP (LIGHT, METHOD B)
																																	6.4				18.4										d		RSP (LIGHT, METHOD B)
																											1																			e		900 mm AFES
									26.84													61.30																					24	23, 30	4	a	"W" 171+10.000	900 mm APC
																											1																			b		900 mm AFES
																																	10.2				27.5										c		RSP (LIGHT, METHOD B)
																																	7.7				21.5										d		RSP (LIGHT, METHOD B)
																											1																			e		900 mm AFES
									30.28													69.16																					25	24, 31	5	a	"NW1" 173+30.000	900 mm APC
																											1																			b		900 mm AFES
																																	10.2				27.5										c		RSP (LIGHT, METHOD B)
																																	10.2				27.5										d		RSP (LIGHT, METHOD B)
																											1																			e		900 mm AFES
									36.88													84.24																					25	24, 32	6	a	"NW1" 175+05.000	900 mm APC
																											1																			b		900 mm AFES
																																	10.2				27.5										c		RSP (LIGHT, METHOD B)
																																	10.2				27.5										d		RSP (LIGHT, METHOD B)
																											1																			e		900 mm AFES
									49.58													113.24																					25	24, 33	7	a	"NW1" 175+95.000	900 mm APC
																											1																			b		900 mm AFES
																																	10.2				27.5										c		RSP (LIGHT, METHOD B)
																																	10.2				27.5										d		RSP (LIGHT, METHOD B)
																											1																			e		900 mm AFES
									26.16													59.75																					29	25, 34	8	a	"NW2" 180+85.000	900 mm APC
																											1																			b		900 mm AFES
																																	10.2				27.5										c		RSP (LIGHT, METHOD B)
																																	10.2				27.5										d		RSP (LIGHT, METHOD B)
																											1																			e		900 mm AFES
									22.95													52.42																					29	25, 35	9	a	"NW2" 181+30.000	900 mm APC
																											1																			b		900 mm AFES
																																	10.2				27.5										c		RSP (LIGHT, METHOD B)
																																	10.2				27.5										d		RSP (LIGHT, METHOD B)
																											1																			e		900 mm AFES
									19.23													43.93																					31	26, 36	10	a	"NW2" 183+70.000	900 mm APC
																											1																			b		900 mm AFES
																																	10.2				27.5										c		RSP (LIGHT, METHOD B)
																																	10.2				27.5										d		RSP (LIGHT, METHOD B)
																											1																			e		900 mm AFES
									275.43													578.91	37.63			18	2					230.3				580.3										SHEET TOTAL		

DRAINAGE QUANTITIES
DQ-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: KAO THAO
CHECKED BY: SCOTT FOSTER
REVISED BY: MGA
DATE REVISED: 05-30-11

LAST REVISION 11-30-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:09

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	408	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

DRAINAGE QUANTITIES SUMMARY

		REMOVE ITEMS						Misc ITEMS							CONCRETE AND STEEL						APC				AFES				RCP		CFES	RSP													
ABANDON CULVERT	ABANDON RCB	REMOVE RCB CULVERT	REMOVE WINGWALL	REMOVE CULVERT	REMOVE INLET	REMOVE FES	REMOVE HEADWALL	NPS 6 SUPPLY LINE (BRIDGE)	(N) SLURRY BACKFILL	(N) MINOR CONCRETE	CABLE RAILING	MISCELLANEOUS IRON AND STEEL	DRAINAGE INLET MARKER (STAMPED CONCRETE INLET)	DRAINAGE INLET MARKER (PLASTIC)	CLASS 2 CONCRETE (WINGWALLS)	CLASS 1 CONCRETE (BOX CULVERT)	MINOR CONCRETE (MINOR STRUCTURE)	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	BAR REINFORCING STEEL (WINGWALLS)	BAR REINFORCING STEEL (BOX CULVERT)	450 mm ALTERNATIVE PIPE CULVERT	600 mm ALTERNATIVE PIPE CULVERT	900 mm ALTERNATIVE PIPE CULVERT	1200 mm ALTERNATIVE PIPE CULVERT	450 mm ALTERNATIVE FLARED END SECTION	600 mm ALTERNATIVE FLARED END SECTION	900 mm ALTERNATIVE FLARED END SECTION	1200 mm ALTERNATIVE FLARED END SECTION	900 mm REINFORCED CONCRETE PIPE	1050 mm REINFORCED CONCRETE PIPE	900 mm CONCRETE FLARED END SECTION	CLEAN SAND AND GRAVEL	RSP (BACKING No. 1, METHOD B)	RSP (LIGHT, METHOD B)	RSP (1/4 T, METHOD B)	RSP (1/2 T, METHOD A)	RSP (1 T, METHOD B)	RSP FABRIC	(N) PERMEABLE MATERIAL	(N) PERMEABLE MATERIAL FABRIC	JACKED PIPE: 900 mm REINFORCED CONCRETE PIPE(CLASS III)	JACKED PIPE: 1200 mm REINFORCED CONCRETE PIPE (CLASS III)	80 mm PLASTIC PIPE (OUTLET)	SHEET NO.
m	EA	EA	EA	m	EA	EA	EA	m	m^3	m^3	m	kg	EA	EA	m^3	m^3	m^3	m^3	kg	kg	m	m	m	m	EA	EA	EA	EA	m	m	EA	m^3	m^3	m^3	m^3	m^3	m^3	m^2	m^3	m^2	m	m	m	
						1						850	5				14.00	11.74				32.73				1									112.3				390.3	3.28	34.68				SHEET DQ-1 TOTAL
				102.60								425	5				11.53	11.59			53.01	103.63				2									107.3				309.1	0.34	3.68				SHEET DQ-2 TOTAL
				111.70							6.10	510	4	2			12.33	6.00			60.37	70.24	21.34			2									92.3				297.5						SHEET DQ-3 TOTAL
				12.60								935	6	6			15.97	9.78			101.77	90.61				1									47.4				163.9						SHEET DQ-4 TOTAL
				87.80								680	7	1			9.09	10.60			61.78	70.11	79.25		1	3	2								105.5				252.5	0.45	4.46				SHEET DQ-5 TOTAL
49.37				143.60	1	3			14.41		7.02	255	3				10.00	4.67			12.04	115.82				3					143.26				182.4				354.9	0.45	4.46				SHEET DQ-6 TOTAL
											10.97	765		9			18.86				109.13	36.58			1	2			67.06		1				93.3				269.0	1.70	18.40		47.24		SHEET DQ-7 TOTAL
								12.40		9.45	29.67	595		7	44.86	83.33	8.33		2392	8376	181.06				2										1632.5				915.7						SHEET DQ-8 TOTAL
	1		2						31.69	16.05	37.63	255		3	31.18	58.61	13.55		1240	8281	27.44	21.34			1	1									71.5	340.6		213.3	894.4	0.98	9.42	121.92			SHEET DQ-9 TOTAL
				11.50							18.30	170		2			16.47				37.11	27.43			1	1									80.6				239.1	0.90	8.92	273.78			SHEET DQ-10 TOTAL
				52.00	2	2						442	2	4			6.36	3.00			12.20	97.19				5									19.0				72.8						SHEET DQ-11 TOTAL
		1	2									782		11			16.37				163.18	18.29			4										23.4				92.7						SHEET DQ-12 TOTAL
												1122	2	14			25.69	3.27			206.11				1										3.4				12.9						SHEET DQ-13 TOTAL
												833	2	9			18.61	3.20			146.97	140.28				4									38.2				134.3	0.45	4.46				SHEET DQ-14 TOTAL
												680	2	6			10.41	3.50			61.07	78.45				4					2				49.9				166.5	0.45	4.46	76.20			SHEET DQ-15 TOTAL
				33.60	1	2	1					255	1	2			7.75	2.00			26.92	24.21			1						4				52.9				165.0	0.45	4.46	90.22			SHEET DQ-16 TOTAL
				65.90			1				6.10						6.04					13.72	57.91				2								40.7				118.7						SHEET DQ-17 TOTAL
						1						340			38.21		4.57		980		51.81	1.19			2							1214.7	9131.1	4500.0	2400.5	1575.3		1299.3					900.0	SHEET DQ-18 TOTAL
									275.43														578.91	37.63				18	2							230.3				580.3						SHEET DQ-19 TOTAL
49.37	1	1	4	621.30	4	9	2	12.4	321.53	25.50	115.79	9894	39	76	114.25	141.94	225.93	69.35	4612	16657	1311.97	941.82	737.41	37.63	14	29	22	2	67.06	143.26	7	1214.7	9131.1	7482.9	2741.1	1575.3	213.3	6728.9	9.45	97.40	562.12	47.24	900.0	GRAND TOTAL

APC ALLOWABLE PIPE MATERIAL

DRAINAGE SYSTEM No.	TYPE: CORRUGATED STEEL PIPE (CSP) (2.77 mm THICK)	CORRUGATED STEEL PIPE (CSP) (3.51 mm THICK)	CORRUGATED STEEL PIPE (CSP) (4.27 mm THICK)	POLYMERIC SHEET COATED CORRUGATED STEEL PIPE (PSCCSP) (2.01 mm THICK)	POLYMERIC SHEET COATED CORRUGATED STEEL PIPE (PSCCSP) (2.77 mm THICK)	CORRUGATED ALIMINIZED STEEL PIPE (CASP)	PLASTIC PIPE (PP) (TYPE S)	REINFORCED CONCRETE PIPE (RCP)
13,15,17,18,22			X		X	X	X	X
7,23,25,37,38,40			X		X	X	X	NO
24,26,41,87-88,90,91,94			X	X		X	X	X
14,31,42-47,49,50,54,56,59,62-70, 72-76,77-80,82,83		X		X		X	X	X
30,32,33,34,36	X			X		X	X	X
TEMPORARY DRAINAGE SYSTEM No.								
T-1,T-2,T-10		X		X		X	X	X
T-3 TO T-9			X		X			X
DETENTION BASIN No.								
DB-2			X		X	X	X	NO
DB-4,DB-5		X		X		X	X	X

TYPE S = SMOOTH INTERIOR

AFES ALLOWABLE END TYPES

APC PIPE TYPES (ALL SIZES)	TYPE: CONCRETE FLARED END SECTION (CFES)	STEEL FLARED END SECTION (STEEL FES)
	SIZE (mm)	SIZE (mm)
CSP	ALL	ALL
PSCCSP	ALL	ALL
CASP	ALL	ALL
PP, TYPE S	ALL	NONE
RCP	ALL	ALL

DRAINAGE QUANTITIES
DQ-20

REVISED BY	MGA
DATE REVISED	05-30-11
KAO THAO	
SCOTT FOSTER	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 12-02-11 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:09

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	409	939

Patrick D. Bishop 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

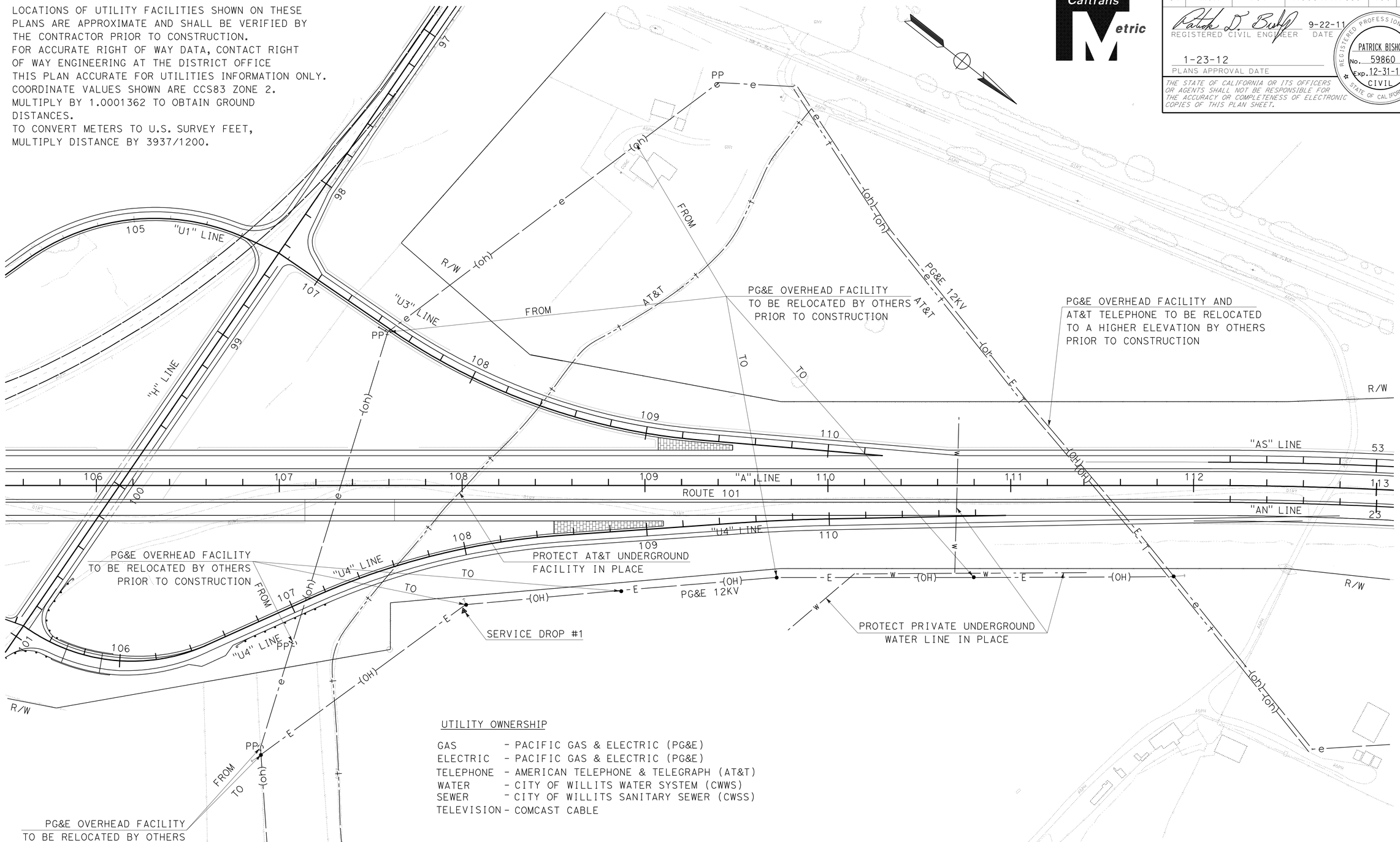
REGISTERED PROFESSIONAL ENGINEER PATRICK BISHOP No. 59860 Exp. 12-31-11 CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

NOTES:

1. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE
3. THIS PLAN ACCURATE FOR UTILITIES INFORMATION ONLY.
4. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 1.0001362 TO OBTAIN GROUND DISTANCES.
5. TO CONVERT METERS TO U.S. SURVEY FEET, MULTIPLY DISTANCE BY 3937/1200.



UTILITY OWNERSHIP

GAS	- PACIFIC GAS & ELECTRIC (PG&E)
ELECTRIC	- PACIFIC GAS & ELECTRIC (PG&E)
TELEPHONE	- AMERICAN TELEPHONE & TELEGRAPH (AT&T)
WATER	- CITY OF WILLITS WATER SYSTEM (CWWS)
SEWER	- CITY OF WILLITS SANITARY SEWER (CWSS)
TELEVISION	- COMCAST CABLE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

UTILITY PLAN

SCALE 1:1000

U-1

NOTE: THIS PLAN ACCURATE FOR UTILITIES INFORMATION ONLY.

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: SUMAN SUDINI
CHECKED BY: PATRICK BISHOP
FUNCTIONAL SUPERVISOR: THOMAS BRANNAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NORTH REGION
OFFICE OF MARYSVILLE DESIGN
UTILITY DESIGN BRANCH

LAST REVISION 03-16-10 | DATE PLOTTED => 26-JAN-2012 | TIME PLOTTED => 06:09

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	410	939

REGISTERED CIVIL ENGINEER 9-22-11 DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK BISHOP No. 59860 Exp. 12-31-11 CIVIL STATE OF CALIFORNIA

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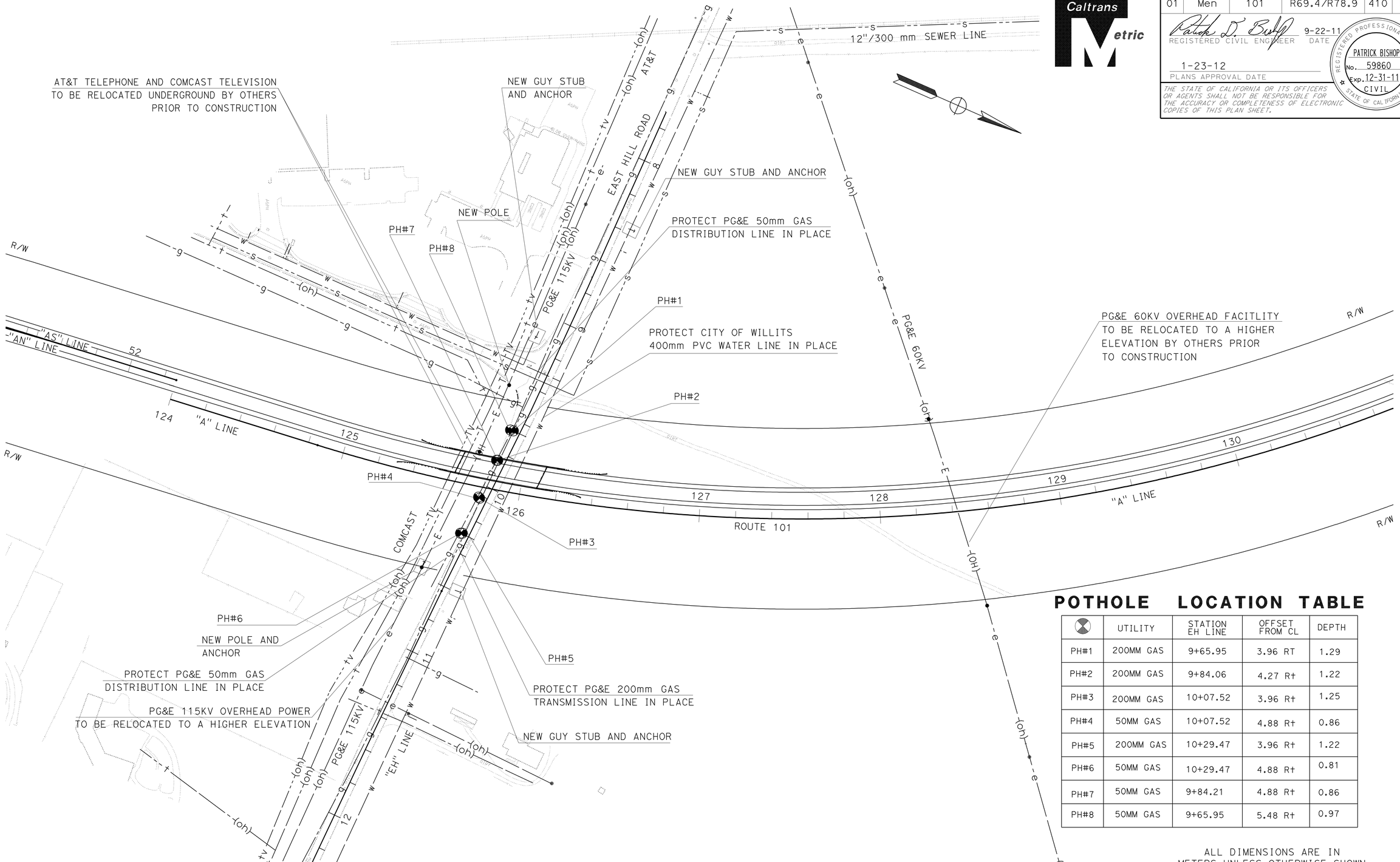
Caltrans Metric



POTHOLE LOCATION TABLE

	UTILITY	STATION EH LINE	OFFSET FROM CL	DEPTH
PH#1	200MM GAS	9+65.95	3.96 RT	1.29
PH#2	200MM GAS	9+84.06	4.27 Rt	1.22
PH#3	200MM GAS	10+07.52	3.96 Rt	1.25
PH#4	50MM GAS	10+07.52	4.88 Rt	0.86
PH#5	200MM GAS	10+29.47	3.96 Rt	1.22
PH#6	50MM GAS	10+29.47	4.88 Rt	0.81
PH#7	50MM GAS	9+84.21	4.88 Rt	0.86
PH#8	50MM GAS	9+65.95	5.48 Rt	0.97

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

UTILITY PLAN

SCALE 1:1000 **U-2**

NOTE: THIS PLAN ACCURATE FOR UTILITIES INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NORTH REGION
OFFICE OF MARYSVILLE DESIGN
UTILITY DESIGN BRANCH

Caltrans

FUNCTIONAL SUPERVISOR: THOMAS BRANNAN
CALCULATED-DESIGNED BY: SUMAN SUDINI
CHECKED BY: PATRICK BISHOP
REVISED BY / DATE REVISED

LAST REVISION 03-16-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:09

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	411	939

Patrick D. Bishop 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK BISHOP
No. 59680
Exp. 12-31-11
CIVIL
STATE OF CALIFORNIA

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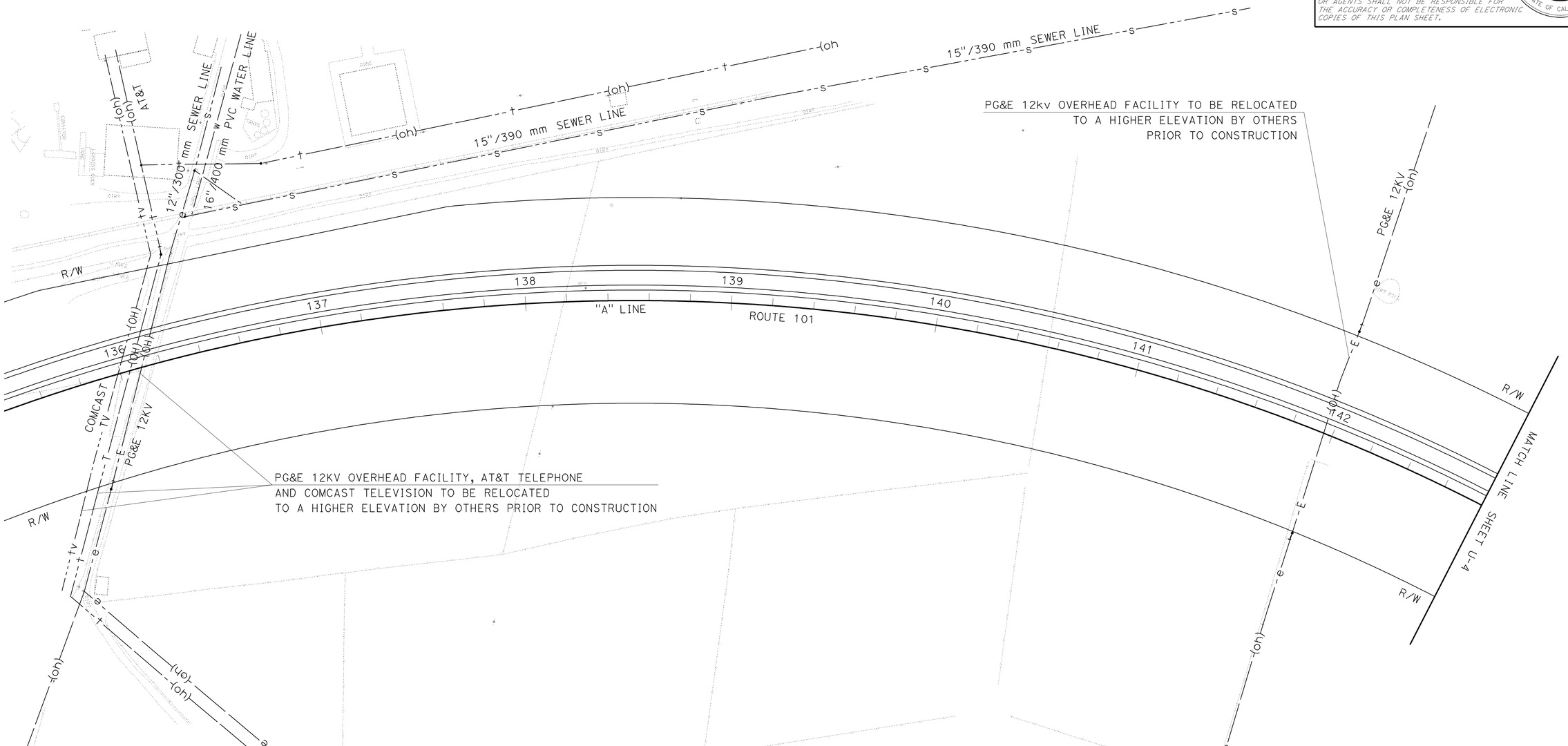
Caltrans Metric



ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

UTILITY PLAN

SCALE 1:1000

U-3

NOTE: THIS PLAN ACCURATE FOR UTILITIES INFORMATION ONLY.

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: SUMAN SUDINI
CHECKED BY: PATRICK BISHOP
FUNCTIONAL SUPERVISOR: THOMAS BRANNAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NORTH REGION
OFFICE OF MARYSVILLE DESIGN
UTILITY DESIGN BRANCH

LAST REVISION 03-16-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:09

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	412	939

Patrick D. Bishop 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK BISHOP
No. 59680
Exp. 12-31-11
CIVIL
STATE OF CALIFORNIA

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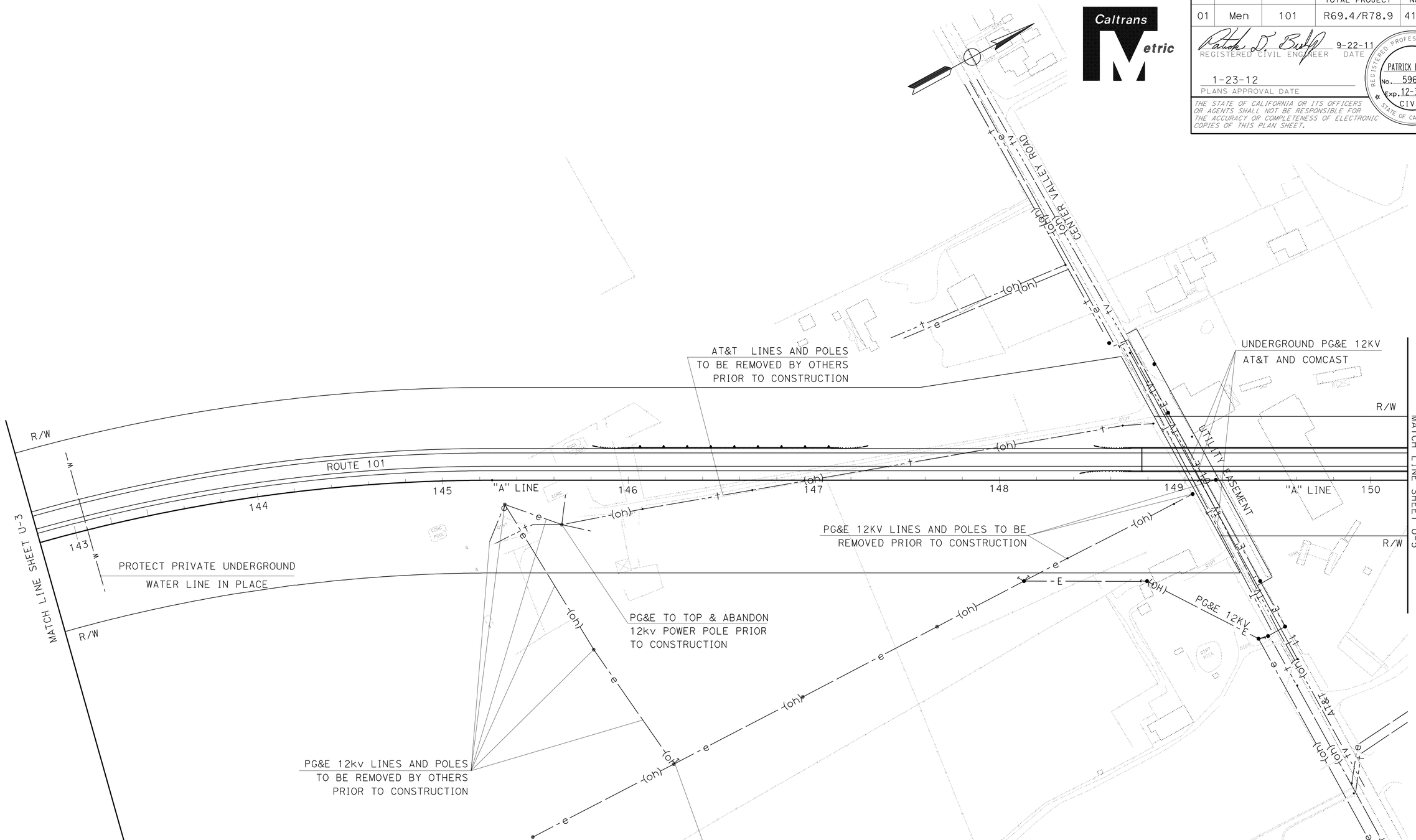
Caltrans Metric



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

UTILITY PLAN

SCALE 1:1000

U-4

NOTE: THIS PLAN ACCURATE FOR UTILITIES INFORMATION ONLY.

CALCULATED-DESIGNED BY	SUMAN SUDINI
CHECKED BY	PATRICK BISHOP
REVISED BY	
DATE REVISED	
FUNCTIONAL SUPERVISOR	THOMAS BRANNAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NORTH REGION
OFFICE OF MARYSVILLE DESIGN
UTILITY DESIGN BRANCH
Caltrans

LAST REVISION 03-16-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:09

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	413	939

REGISTERED CIVIL ENGINEER 9-22-11 DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK BISHOP No. 59680 Exp. 12-31-11 CIVIL STATE OF CALIFORNIA

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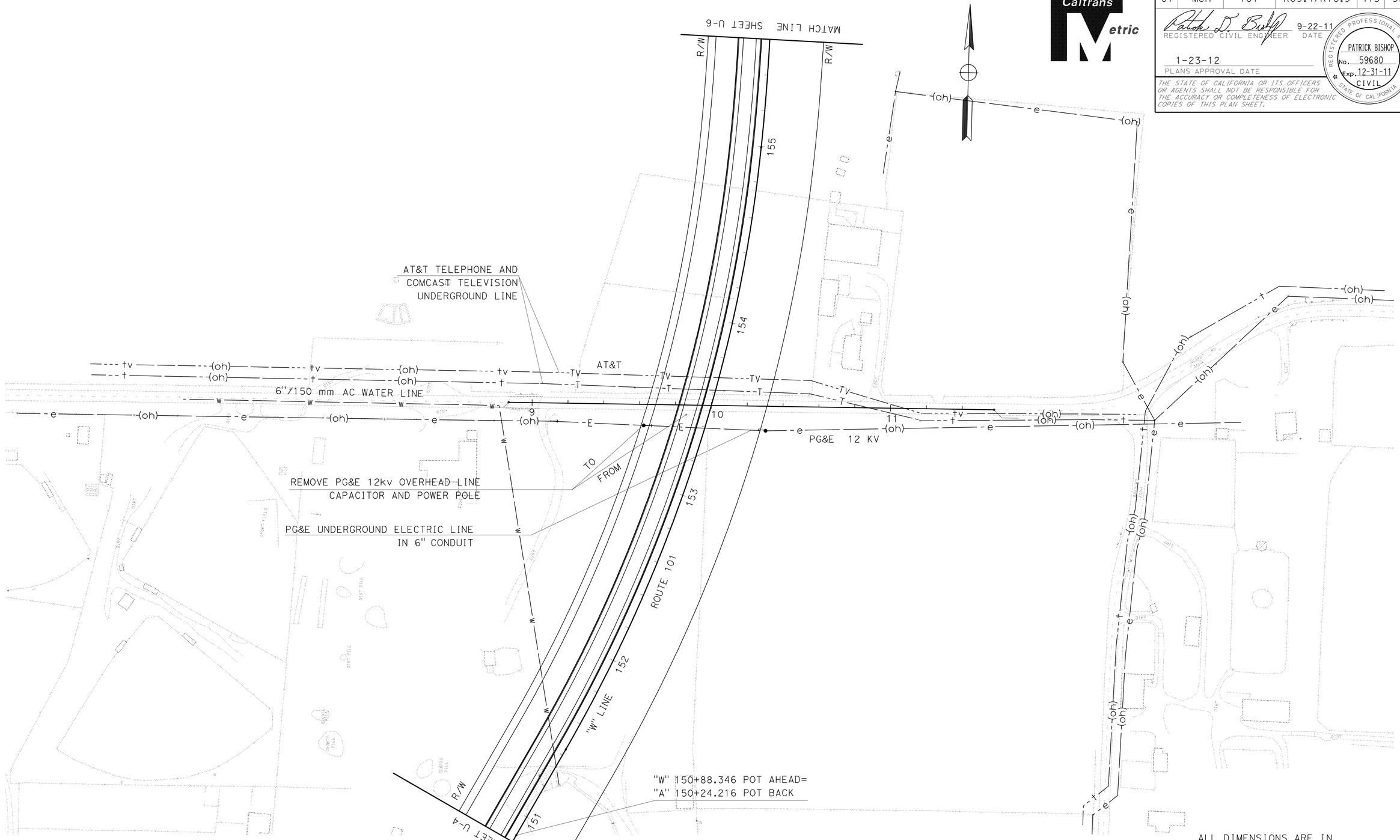
Caltrans Metric



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

UTILITY PLAN

SCALE 1:1000

U-5

NOTE: THIS PLAN ACCURATE FOR UTILITIES INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NORTH REGION
OFFICE OF MARYSVILLE DESIGN
UTILITY DESIGN BRANCH

Caltrans

FUNCTIONAL SUPERVISOR: THOMAS BRANNAN

CALCULATED-DESIGNED BY: SUMAN SUDINI

CHECKED BY: PATRICK BISHOP

REVISED BY / DATE REVISED

LAST REVISION 03-16-10 | DATE PLOTTED => 26-JAN-2012 | TIME PLOTTED => 08:09

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	414	939

Patrick D. Bishop 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK BISHOP
No. 59860
Exp. 12-31-11
CIVIL
STATE OF CALIFORNIA

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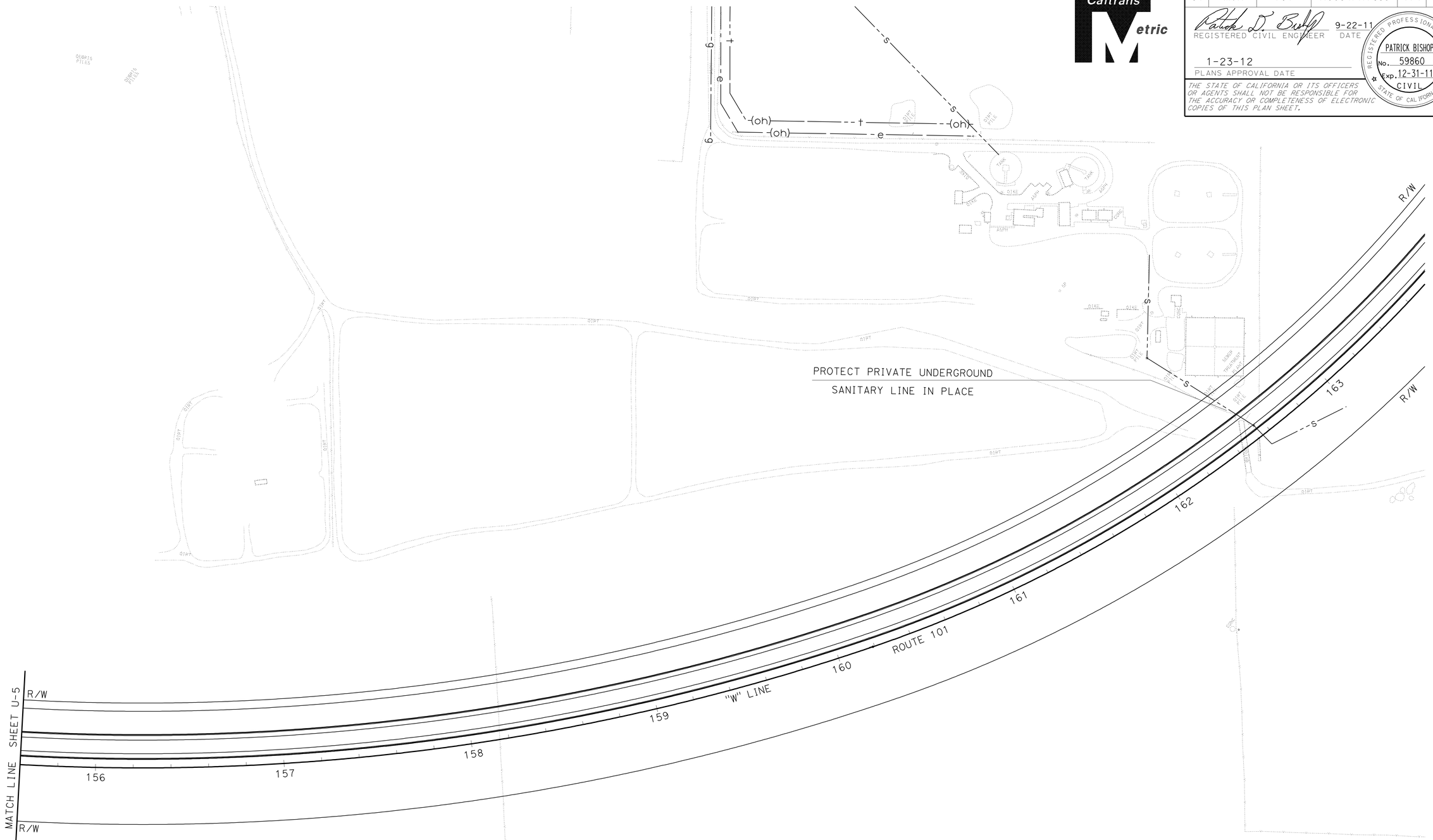

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

UTILITY PLAN

SCALE 1:1000

U-6

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
NORTH REGION
OFFICE OF MARYSVILLE DESIGN
UTILITY DESIGN BRANCH

FUNCTIONAL SUPERVISOR: THOMAS BRANNAN
CALCULATED-DESIGNED BY: SUMAN SUDINI
CHECKED BY: PATRICK BISHOP
REVISED BY
DATE REVISED

LAST REVISION 03-16-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:10

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	415	939

Patrick D. Bishop 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK BISHOP No. 59680 Exp. 12-31-11 CIVIL STATE OF CALIFORNIA

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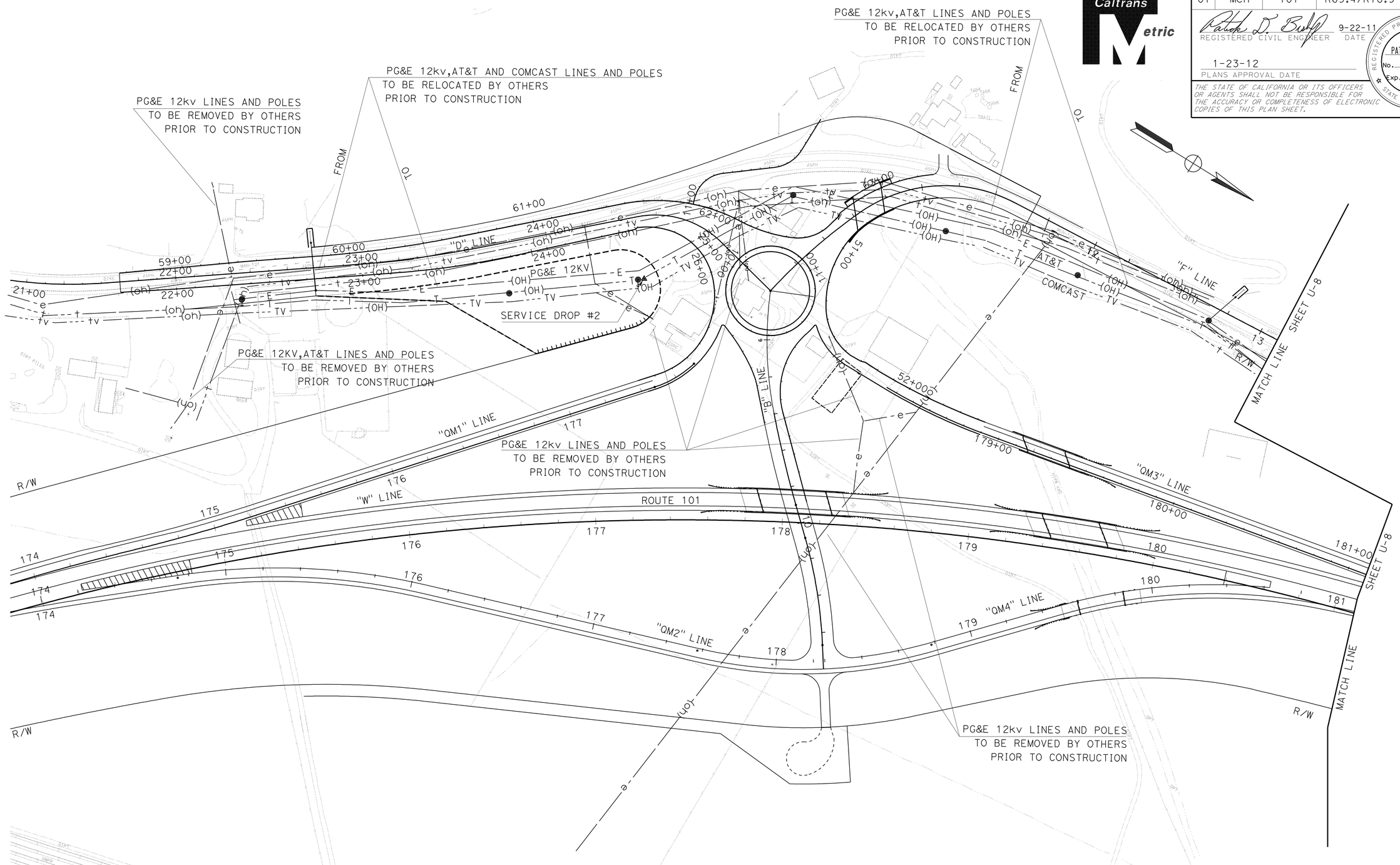
Caltrans Metric



NOTE: THIS PLAN ACCURATE FOR UTILITIES INFORMATION ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

UTILITY PLAN

SCALE 1:1000 **U-7**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NORTH REGION
OFFICE OF MARYSVILLE DESIGN
UTILITY DESIGN BRANCH

FUNCTIONAL SUPERVISOR: THOMAS BRANNAN
CALCULATED-DESIGNED BY: SUMAN SUDINI
CHECKED BY: PATRICK BISHOP
REVISED BY / DATE REVISED

LAST REVISION 03-16-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:10

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	416	939

Patrick D. Bishop 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK BISHOP
No. 59680
Exp. 12-31-11
CIVIL
STATE OF CALIFORNIA

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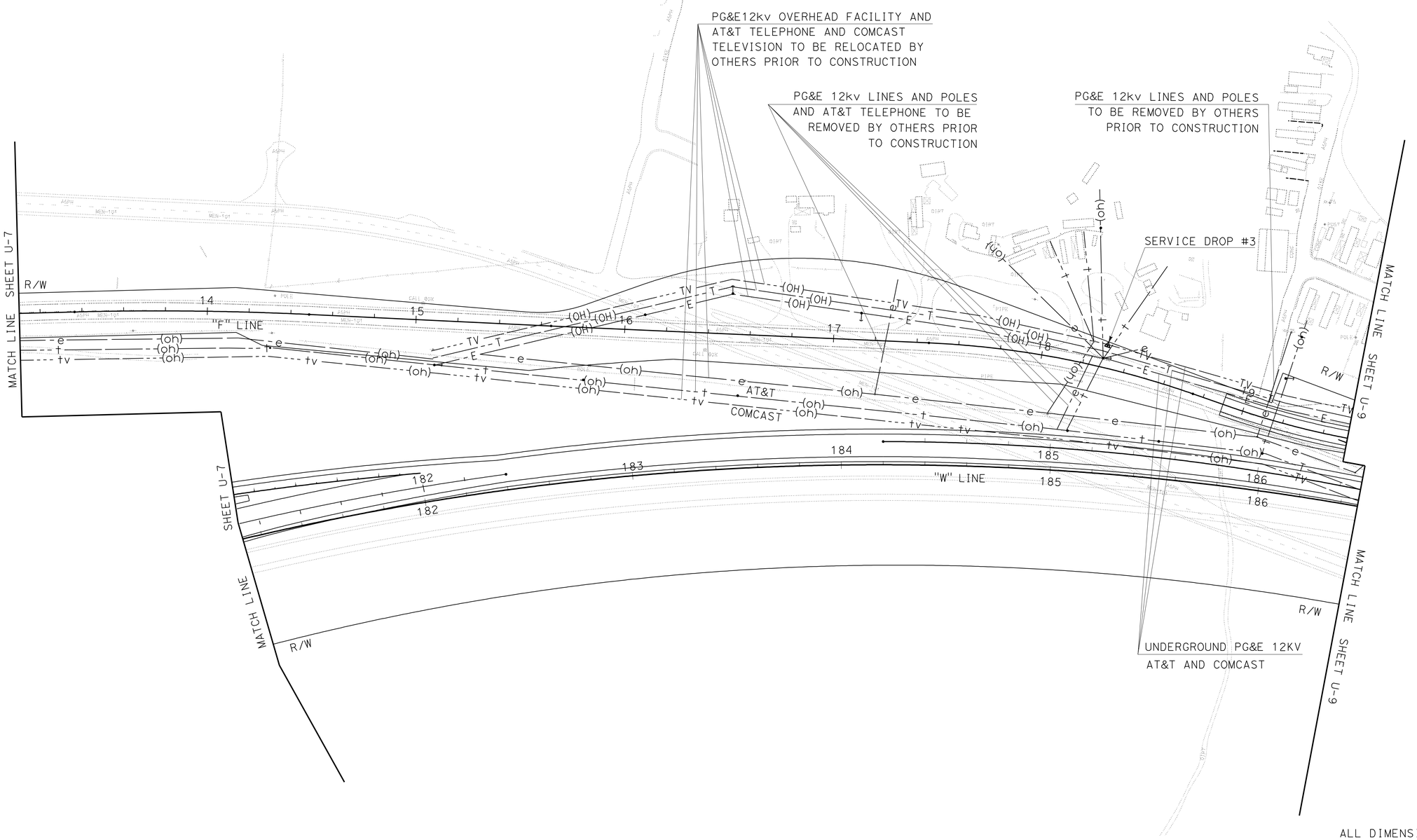
Caltrans Metric



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

UTILITY PLAN

SCALE 1:1000

U-8

NOTE: THIS PLAN ACCURATE FOR UTILITIES INFORMATION ONLY .

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
North Region
OFFICE OF MARYSVILLE DESIGN
UTILITY DESIGN BRANCH

FUNCTIONAL SUPERVISOR: THOAMS BRANNAN
CALCULATED-DESIGNED BY: SUMAN SUDINI
CHECKED BY: PATRICK BISHOP
REVISED BY / DATE REVISED

LAST REVISION 03-16-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:10

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	417	939

Patrick D. Bishop 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK BISHOP
No. 59860
Exp. 12-31-11
CIVIL
STATE OF CALIFORNIA

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Caltrans Metric

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

UTILITY PLAN

NOTE: THIS PLAN ACCURATE FOR UTILITIES INFORMATION ONLY.

SCALE 1:1000 **U-9**

REVISED BY	DATE REVISED

SUMAN SUDINI	PATRICK BISHOP
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	THOMAS BRANNAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NORTH REGION
OFFICE OF MARYSVILLE DESIGN
UTILITY DESIGN BRANCH
Caltrans

LAST REVISION 03-16-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:10

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	418	939

Caltrans Metric

Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald C. Rushton No. C35393 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
A	W20-1	1219 x 1219	ROAD WORK AHEAD	1-140 x 140	1
B	W20-2	914 x 914	ROAD WORK AHEAD	1-89 x 140	11
C	C40<CA>	3658 x 1524	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2-140 x 190	1
D	C40<CA>	2743 x 1067	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2-140 x 140	2
E	C40<CA>	1829 x 914	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2-89 x 140	1
F	G20-2	1219 x 610	END ROAD WORK	1-89 x 140	1
G	G20-3	914 x 457	END ROAD WORK	1-89 x 89	9
H	W11-1 W16-1	1219 x 1219 610 x 762	BICYCLE (SYMBOL) SHARE THE ROAD	1-140 x 140	1
I	W11-1 W16-1	914 x 914 610 x 762	BICYCLE (SYMBOL) SHARE THE ROAD	1-89 x 140	3

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
2. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. ALL SIGN CODES ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA <CA> SIGN CODES.
4. FOR ADDITIONAL STATIONARY MOUNTED CONSTRUCTION AREA SIGNS, SEE TEMPORARY TRAFFIC CONTROL PLANS.

CONSTRUCTION AREA SIGNS

CS-1

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: David G. Kelley

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 10-13-09 | DATE PLOTTED => 28-JAN-2012 TIME PLOTTED => 06:10

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	419	939

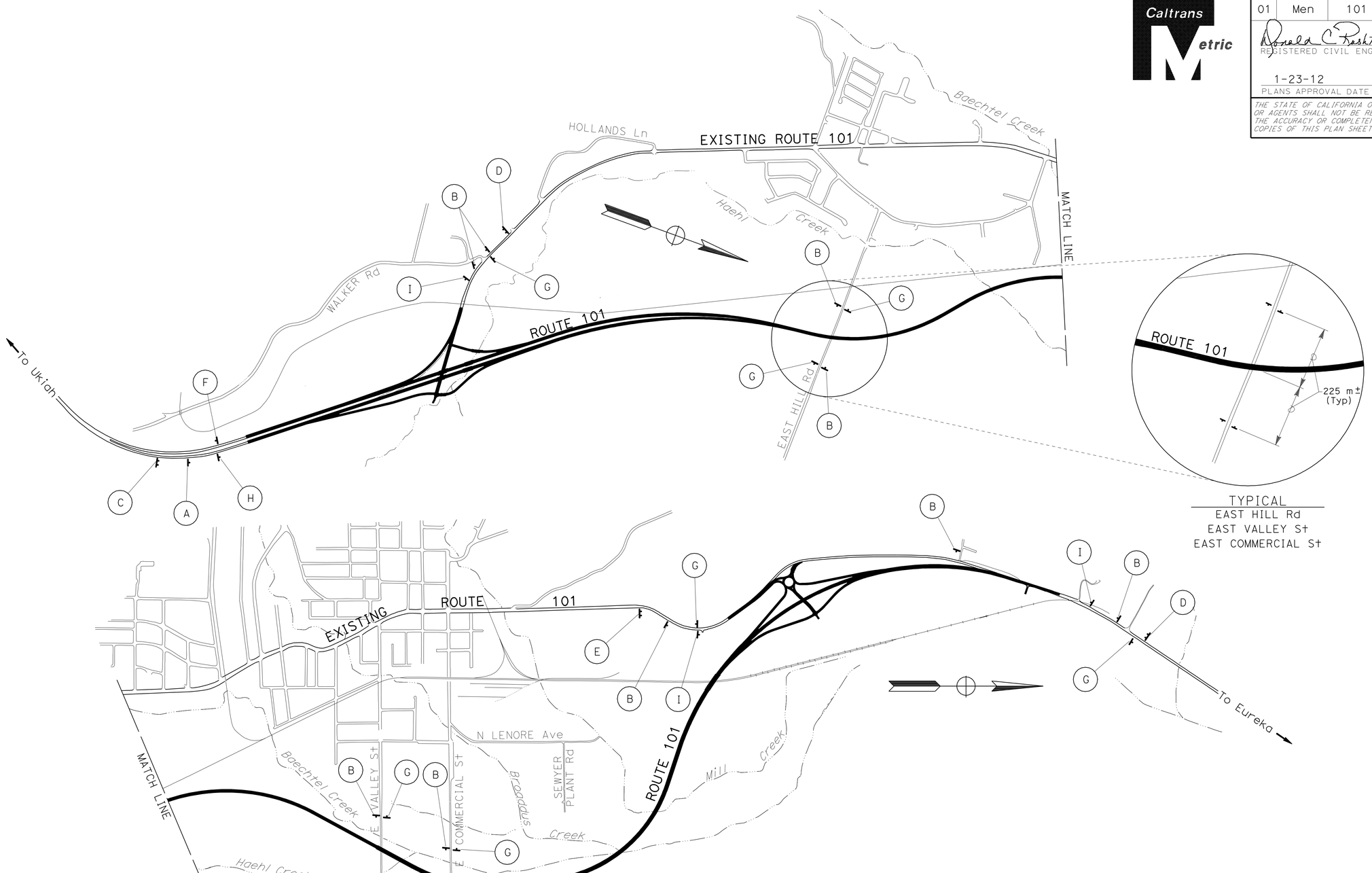
Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Donald C. Rushton
No. C35393
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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

Caltrans Metric



CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY.

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
David G. Kelley

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

LAST REVISION 10-13-09
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:10

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	420	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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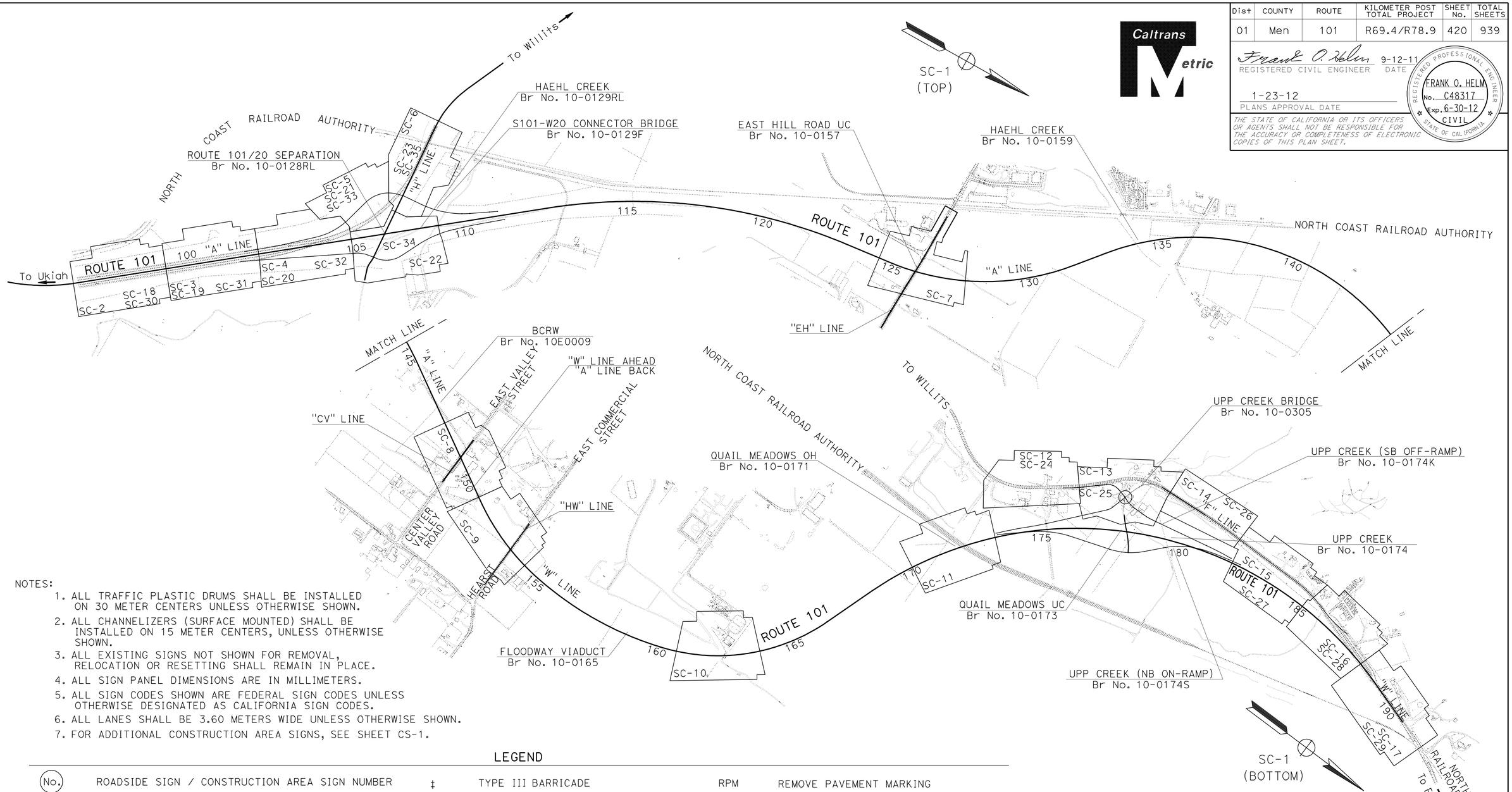
Caltrans Metric



NOTES:

1. ALL TRAFFIC PLASTIC DRUMS SHALL BE INSTALLED ON 30 METER CENTERS UNLESS OTHERWISE SHOWN.
2. ALL CHANNELIZERS (SURFACE MOUNTED) SHALL BE INSTALLED ON 15 METER CENTERS, UNLESS OTHERWISE SHOWN.
3. ALL EXISTING SIGNS NOT SHOWN FOR REMOVAL, RELOCATION OR RESETTING SHALL REMAIN IN PLACE.
4. ALL SIGN PANEL DIMENSIONS ARE IN MILLIMETERS.
5. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
6. ALL LANES SHALL BE 3.60 METERS WIDE UNLESS OTHERWISE SHOWN.
7. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE SHEET CS-1.

LEGEND

(No.)	ROADSIDE SIGN / CONSTRUCTION AREA SIGN NUMBER	‡	TYPE III BARRICADE	RPM	REMOVE PAVEMENT MARKING
<CA>	CALIFORNIA SIGN CODE	⇨	DIRECTION OF TRAVEL	⊕	TRAFFIC PLASTIC DRUM
↓	SIGN - SINGLE POST	↔	LIMIT OF STRIPING PATTERN	s=	TRAFFIC PLASTIC DRUM SPACING
↓↓	SIGN - TWO POST	↔	CHANGE IN STRIPING PATTERN	S	"STOP" PAVEMENT MARKING
↓	SIGN - SSBM	(No./X)	PAVEMENT DELINEATION DETAIL NUMBER P=PAINT OR T=TAPE	A	"AHEAD" PAVEMENT MARKING
■	REMOVE ROADSIDE SIGN				TEMPORARY CRASH CUSHION ARRAY, TYPE "TB14"
■■	REMOVE CONSTRUCTION AREA SIGN	(LL/X)	LIMIT LINE P=TPMP OR T=TPMT		TEMPORARY CRASH CUSHION ARRAY, TYPE "TB11"
*	RELOCATE ROADSIDE SIGN			SNS	STREET NAME SIGN
**	RELOCATE CONSTRUCTION AREA SIGN	PAINT	TEMPORARY TRAFFIC STRIPE (PAINT)		DELINEATOR (CLASS 1) OR OBJECT MARKER
▲	RESET ROADSIDE SIGN	TPMP	TEMPORARY PAVEMENT MARKING (PAINT)	•	CHANNELIZER (SURFACE MOUNTED)
▲▲	RESET CONSTRUCTION AREA SIGN		TYPE VI ARROW		
XXX	CONSTRUCTION AREA SIGN				

STAGE CONSTRUCTION KEY MAP

NO SCALE

SC-1

REVISED BY	DATE REVISED

FRANK HELM — CALCULATED-DESIGNED BY
MELISSA HAURY — CHECKED BY
DOUGLAS S. JONES — FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 03-30-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:10

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	421	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

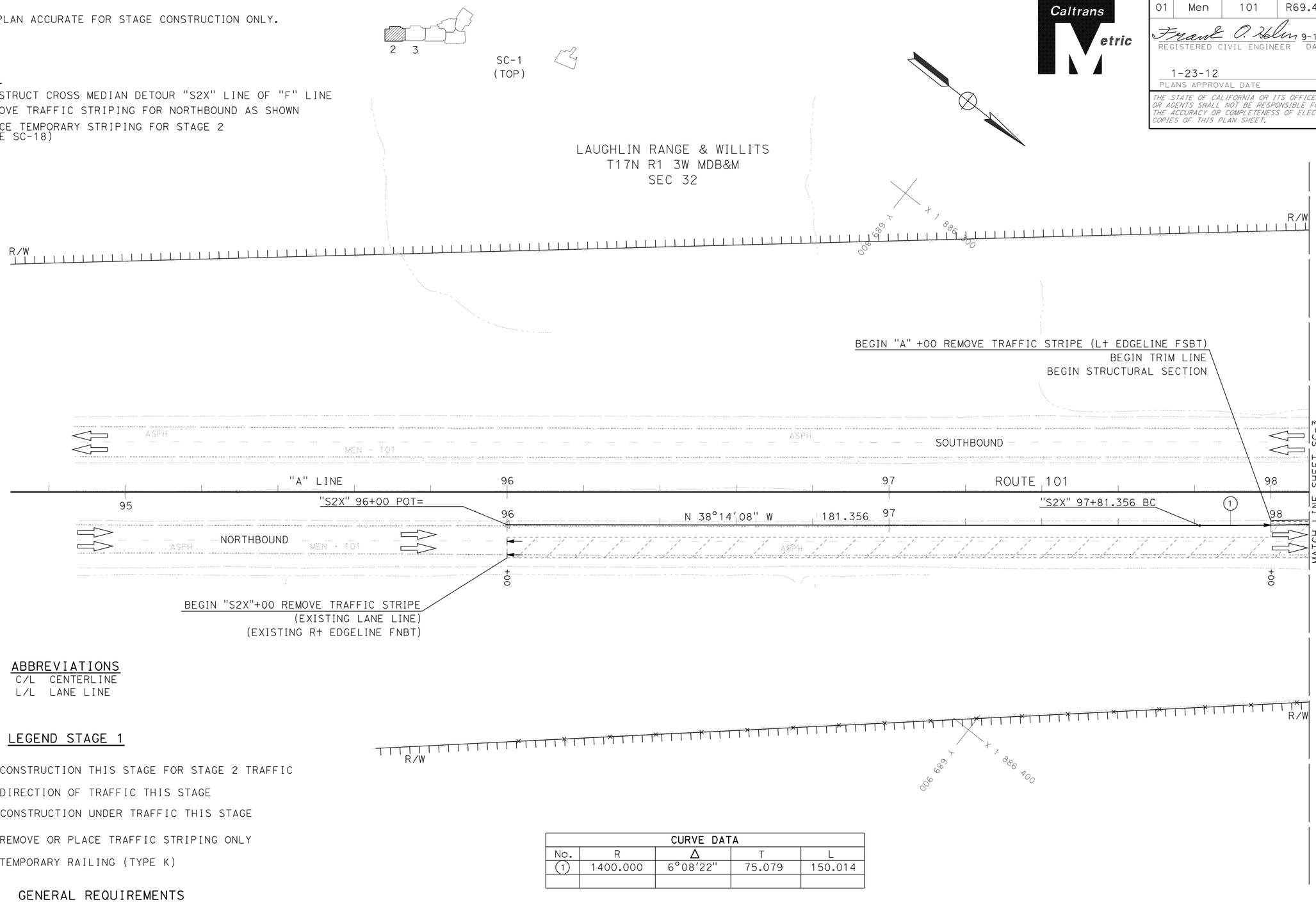
REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

NOTES:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.



STAGE 1

(A) CONSTRUCT CROSS MEDIAN DETOUR "S2X" LINE OF "F" LINE
(B) REMOVE TRAFFIC STRIPING FOR NORTHBOUND AS SHOWN
(C) PLACE TEMPORARY STRIPING FOR STAGE 2 (SEE SC-18)

ABBREVIATIONS

C/L CENTERLINE
L/L LANE LINE

LEGEND STAGE 1

- CONSTRUCTION THIS STAGE FOR STAGE 2 TRAFFIC
- DIRECTION OF TRAFFIC THIS STAGE
- CONSTRUCTION UNDER TRAFFIC THIS STAGE
- REMOVE OR PLACE TRAFFIC STRIPING ONLY
- TEMPORARY RAILING (TYPE K)

CURVE DATA				
No.	R	Δ	T	L
1	1400.000	6°08'22"	75.079	150.014

GENERAL REQUIREMENTS

1. NO ROADWAYS ARE TO BE CLOSED UNTIL REPLACEMENT FACILITIES ARE CONSTRUCTED OR DETOURS READIED AND AVAILABLE FOR PUBLIC USE.
2. FINAL AC OR OGAC COURSE SHALL BE DEFERRED ON ALL ROADWAYS UNTIL TEMPORARY TRAFFIC STRIPING OR DETOURING IS NO LONGER REQUIRED.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 1

SCALE 1:500

SC-2

REVISED BY | DATE REVISED
FRANK HELM
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 04-01-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:10

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	422	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

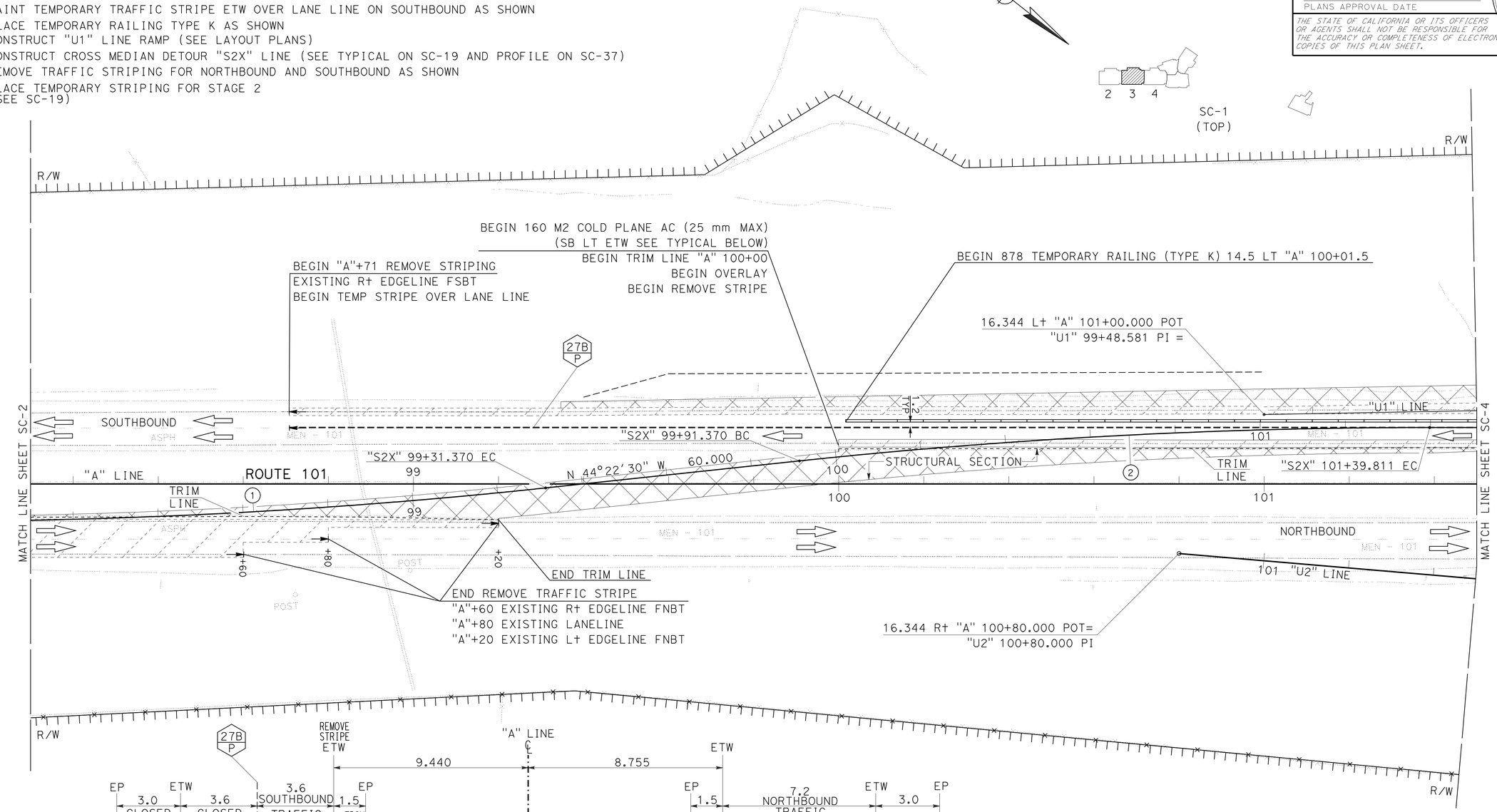
NOTES:

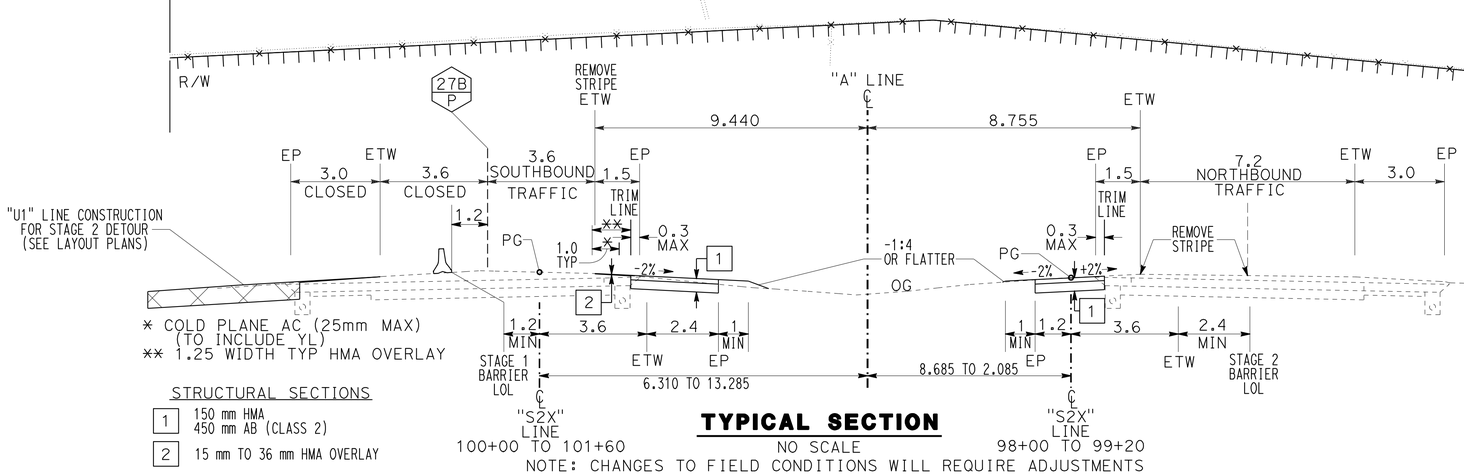
1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

CURVE DATA				
No.	R	Δ	T	L
1	1400.000	6°08'22"	75.079	150.014
2	1400.000	6°04'30"	74.290	148.441

STAGE 1

(A) PAINT TEMPORARY TRAFFIC STRIPE ETW OVER LANE LINE ON SOUTHBOUND AS SHOWN
(B) PLACE TEMPORARY RAILING TYPE K AS SHOWN
(C) CONSTRUCT "U1" LINE RAMP (SEE LAYOUT PLANS)
(D) CONSTRUCT CROSS MEDIAN DETOUR "S2X" LINE (SEE TYPICAL ON SC-19 AND PROFILE ON SC-37)
(E) REMOVE TRAFFIC STRIPING FOR NORTHBOUND AND SOUTHBOUND AS SHOWN
(F) PLACE TEMPORARY STRIPING FOR STAGE 2 (SEE SC-19)





TYPICAL SECTION
NO SCALE
NOTE: CHANGES TO FIELD CONDITIONS WILL REQUIRE ADJUSTMENTS

LAUGHLIN RANGE & WILLITS
T17N R1 3W MDB&M
SEC 32

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 1

SCALE 1:500

SC-3

REVISED BY | DATE REVISED
FRANK HELM
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 09-06-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:11

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	423	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

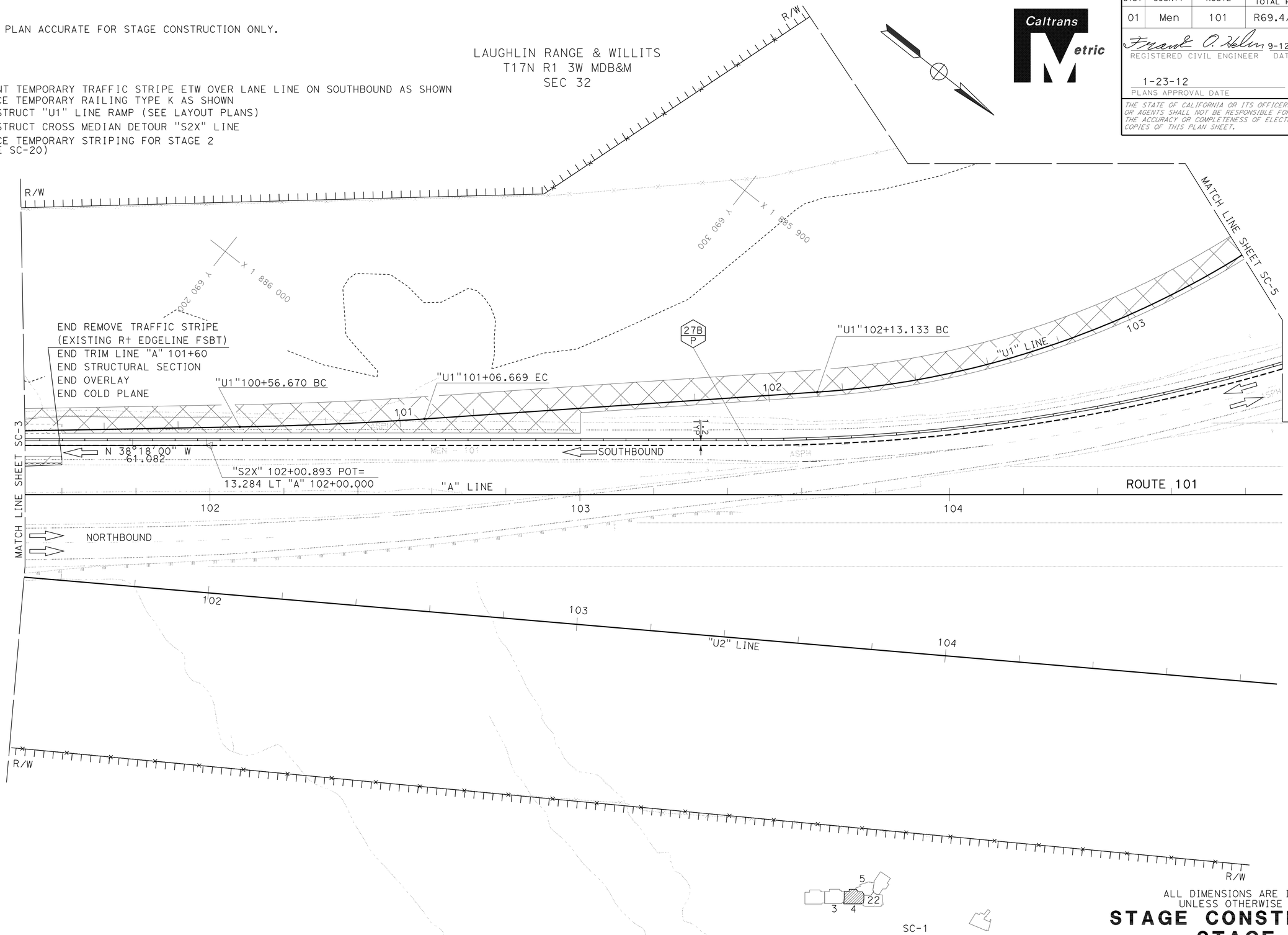
NOTES:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

LAUGHLIN RANGE & WILLITS
T17N R1 3W MDB&M
SEC 32

STAGE 1

(A) PAINT TEMPORARY TRAFFIC STRIPE ETW OVER LANE LINE ON SOUTHBOUND AS SHOWN
(B) PLACE TEMPORARY RAILING TYPE K AS SHOWN
(C) CONSTRUCT "U1" LINE RAMP (SEE LAYOUT PLANS)
(D) CONSTRUCT CROSS MEDIAN DETOUR "S2X" LINE
(E) PLACE TEMPORARY STRIPING FOR STAGE 2 (SEE SC-20)



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 1
SCALE 1:500

SC-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-07-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:11

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => s121614
DGN FILE => 0100000005ma004.dgn
CU 03226
EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	424	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

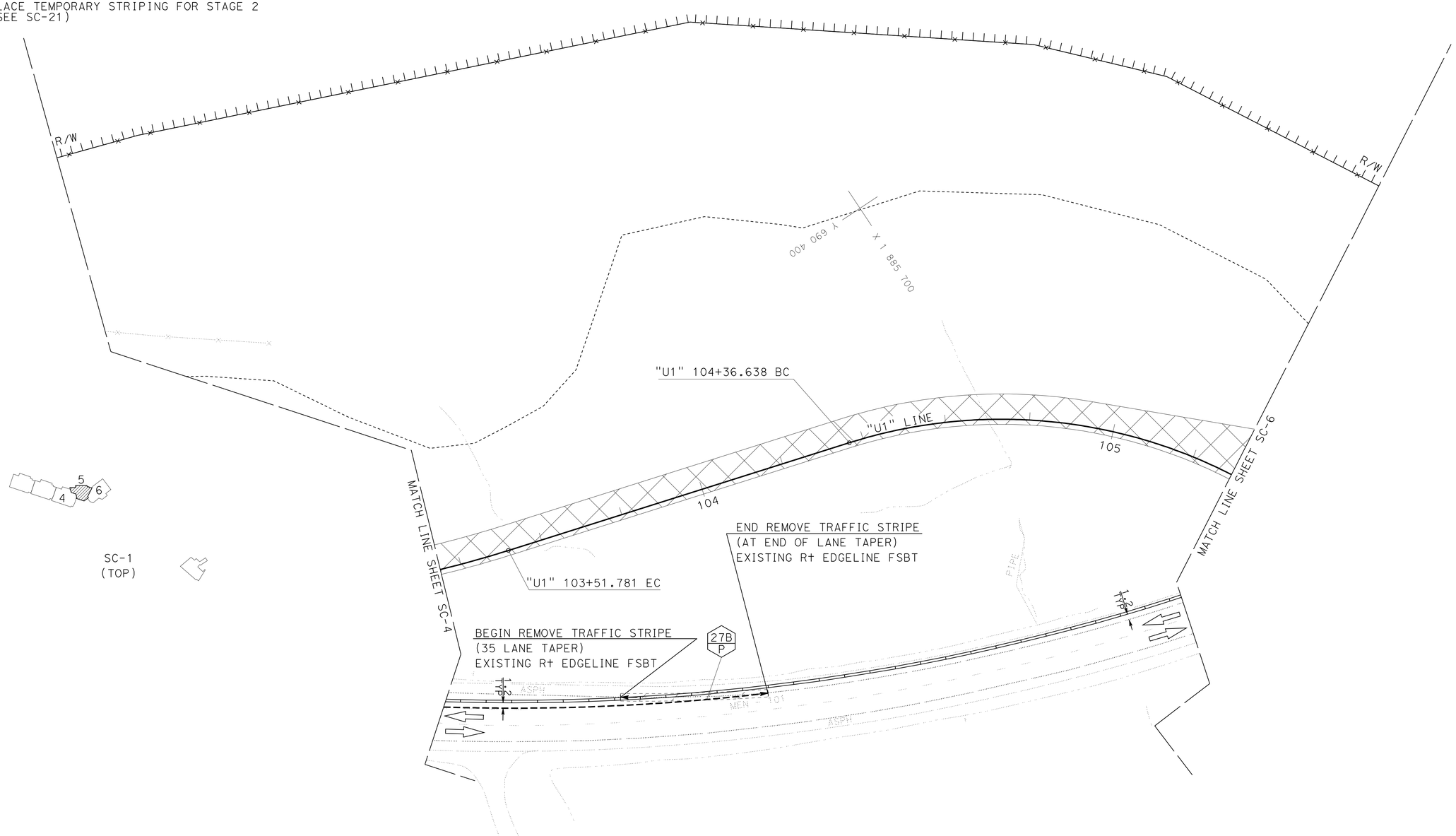
NOTES:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 1

(A) REMOVE TRAFFIC STRIPE AS SHOWN
(B) PAINT TEMPORARY TRAFFIC STRIPE ETW OVER LANE LINE ON SOUTHBOUND AS SHOWN
(C) PLACE TEMPORARY RAILING TYPE K AS SHOWN
(D) CONSTRUCT "U1" LINE RAMP (SEE LAYOUT PLANS)
(E) PLACE TEMPORARY STRIPING FOR STAGE 2
(SEE SC-21)

LAUGHLIN RANGE & WILLITS
T17N R1 3W MDB&M
SEC 32



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 1
SCALE 1:500

SC-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-07-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:11

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	425	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

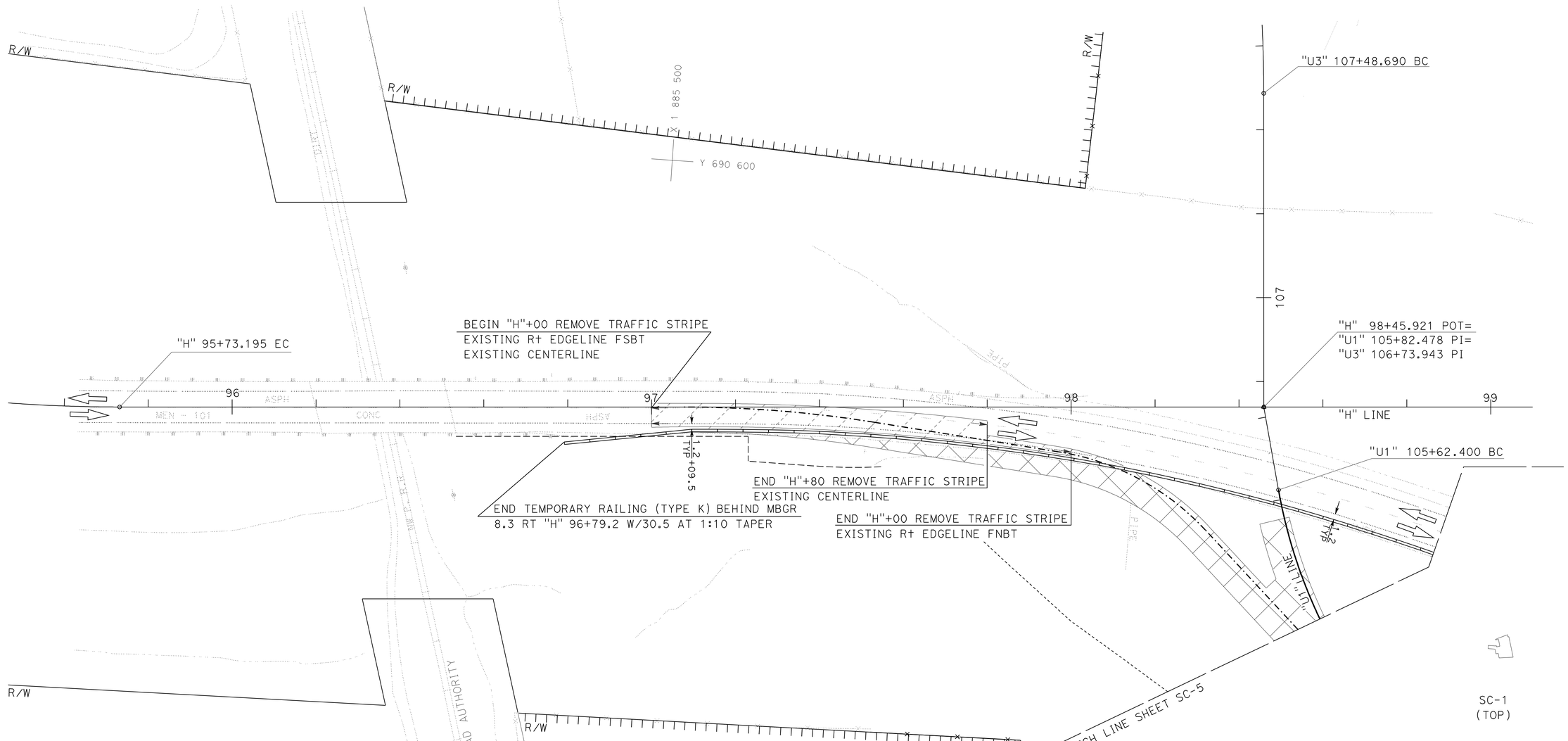
NOTES:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

LAUGHLIN RANGE & WILLITS
T17N R1 3W MDB&M
SEC 29 & 32

STAGE 1

(A) PLACE TEMPORARY RAILING TYPE K AS SHOWN
(B) CONSTRUCT "U1" LINE RAMP (SEE LAYOUT PLANS)
(C) REMOVE TRAFFIC STRIPE AS SHOWN
(D) PLACE TEMPORARY STRIPING FOR STAGE 2 (SEE SC-23)



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 1
SCALE 1:500

SC-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 08-25-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:11

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	426	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

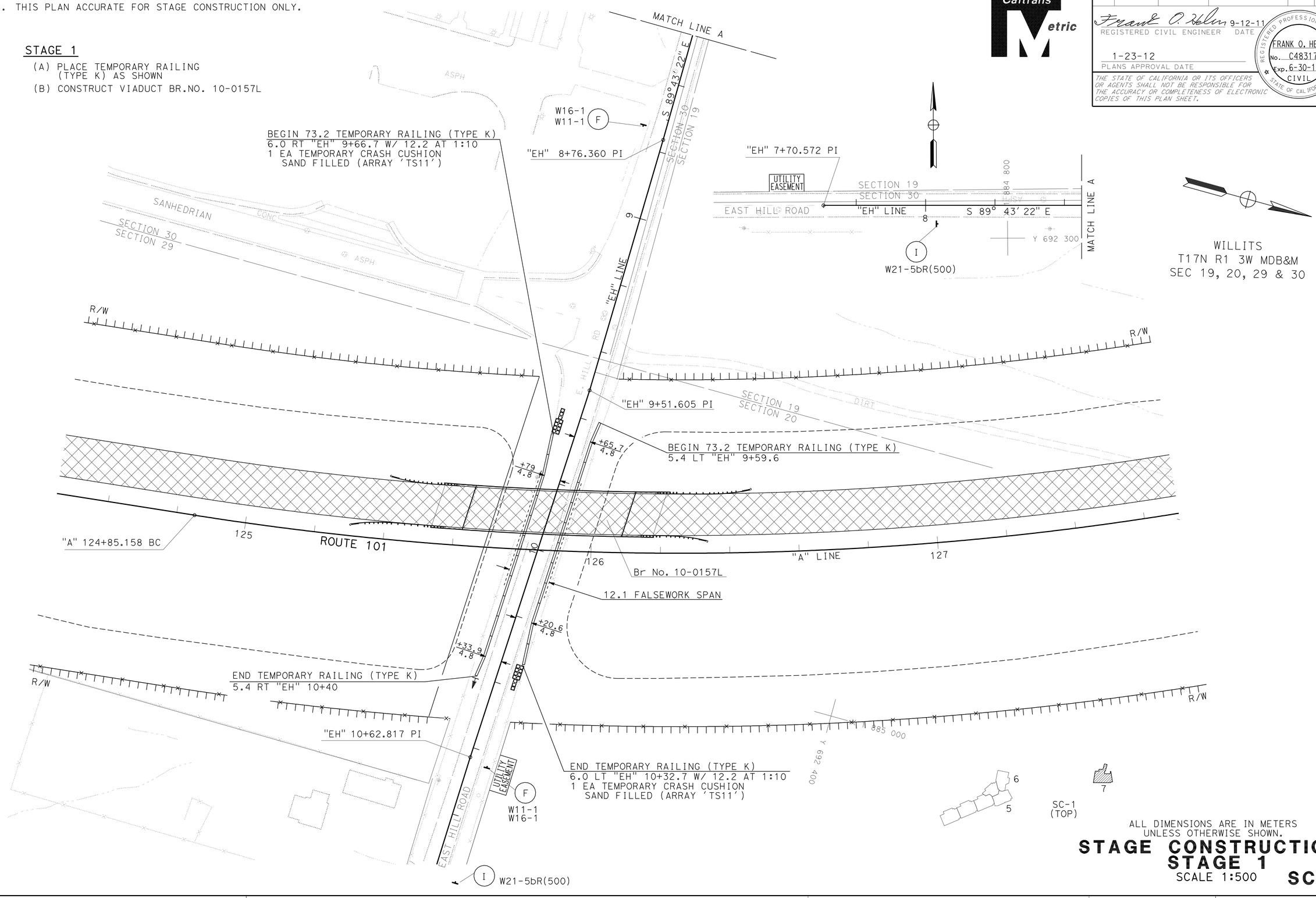
NOTES:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 1

(A) PLACE TEMPORARY RAILING (TYPE K) AS SHOWN

(B) CONSTRUCT VIADUCT BR.NO. 10-0157L



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 1

SCALE 1:500

SC-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: FRANK HELM

CHECKED BY

REVISED BY | DATE REVISED

LAST REVISION 04-01-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:11

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	427	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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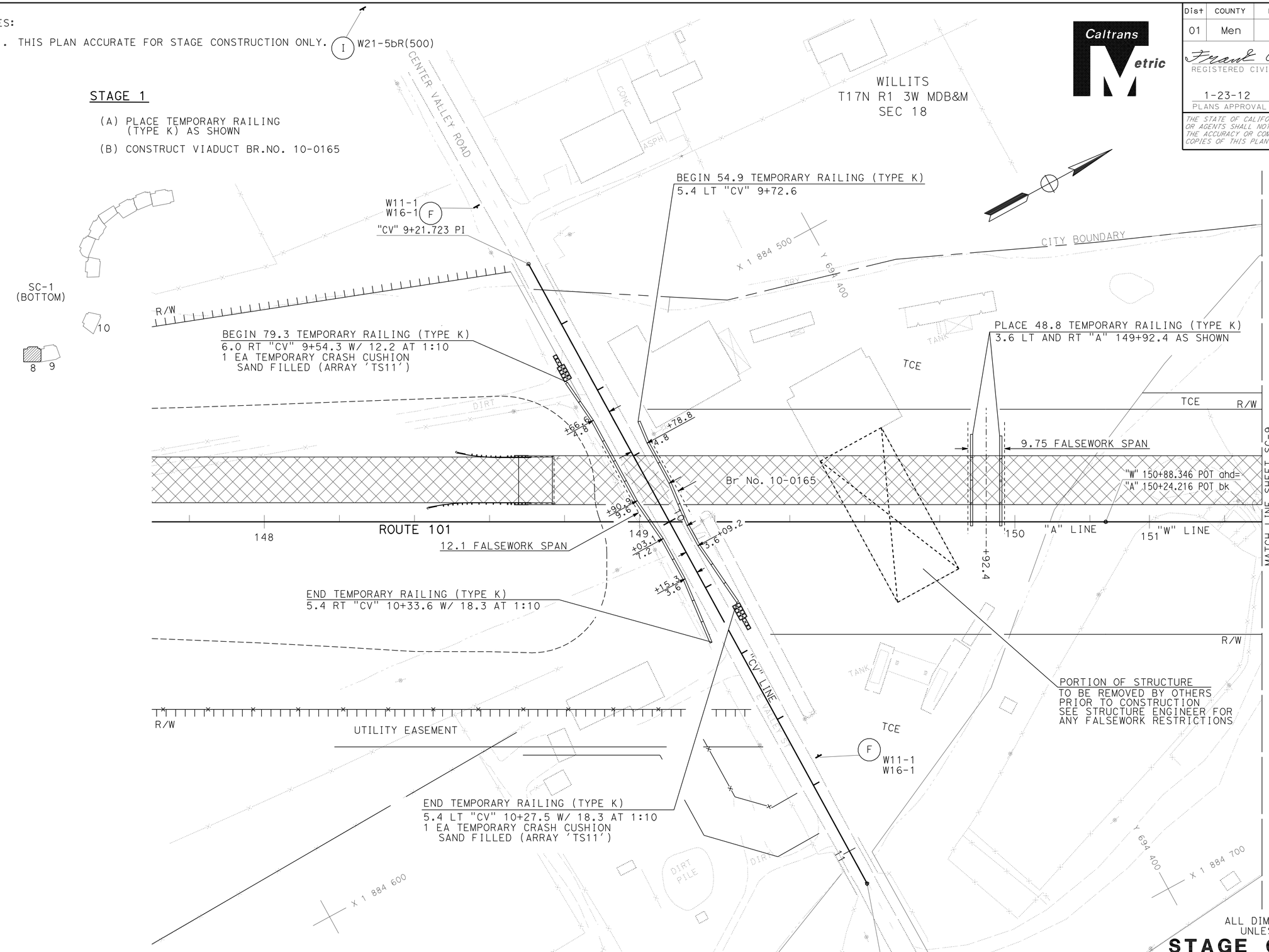
Caltrans Metric

NOTES:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY. (I) W21-5bR(500)



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 1

SCALE 1:500

SC-8

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
FRANK HELM	MELISSA HAURY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:11

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	428	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

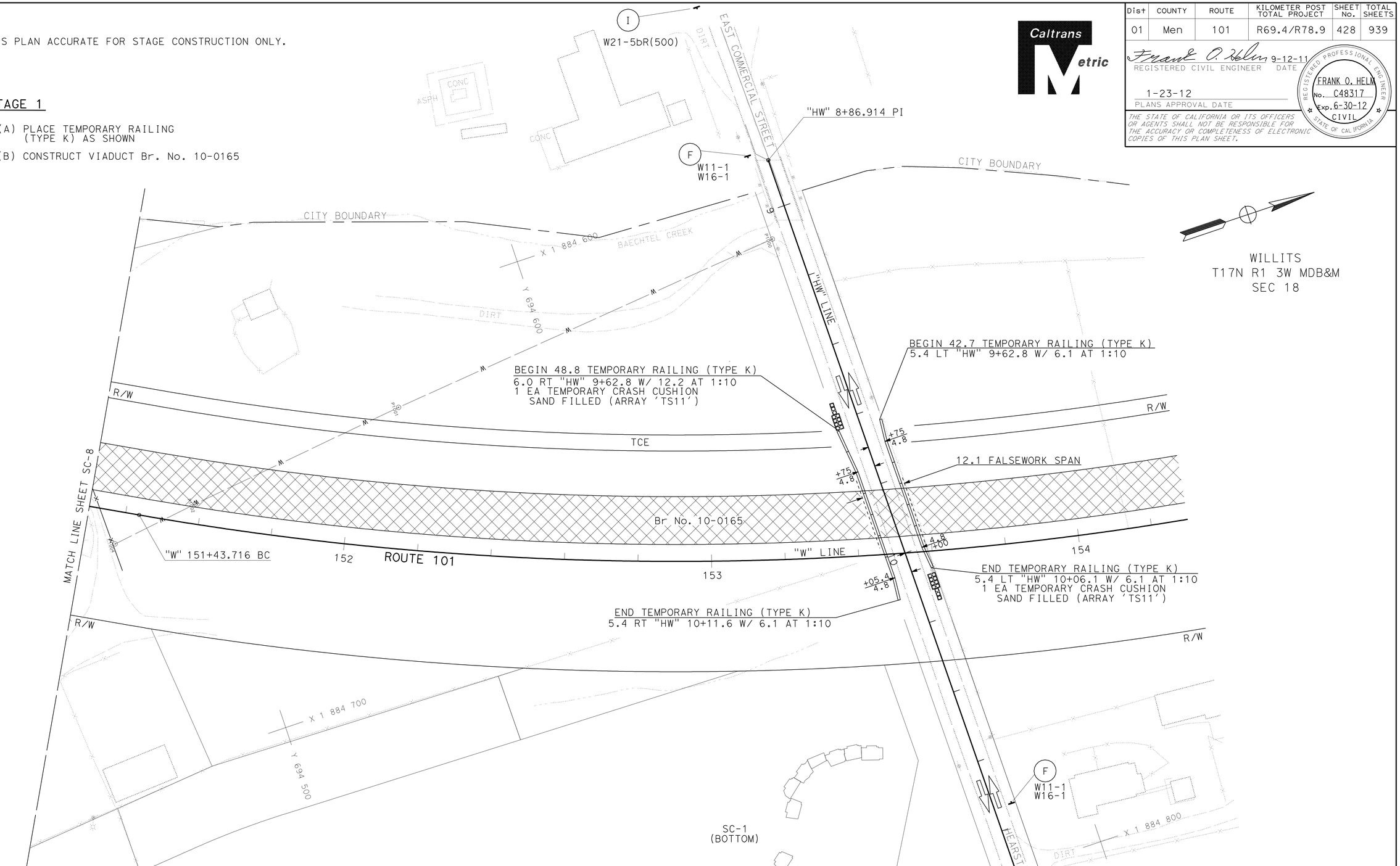
NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 1

(A) PLACE TEMPORARY RAILING (TYPE K) AS SHOWN

(B) CONSTRUCT VIADUCT Br. No. 10-0165



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 1

SCALE 1:500

SC-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: FRANK HELM

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 08-25-11 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:11

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s121614
DGN FILE => 0100000005ma009.dgn

CU 03226

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	429	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

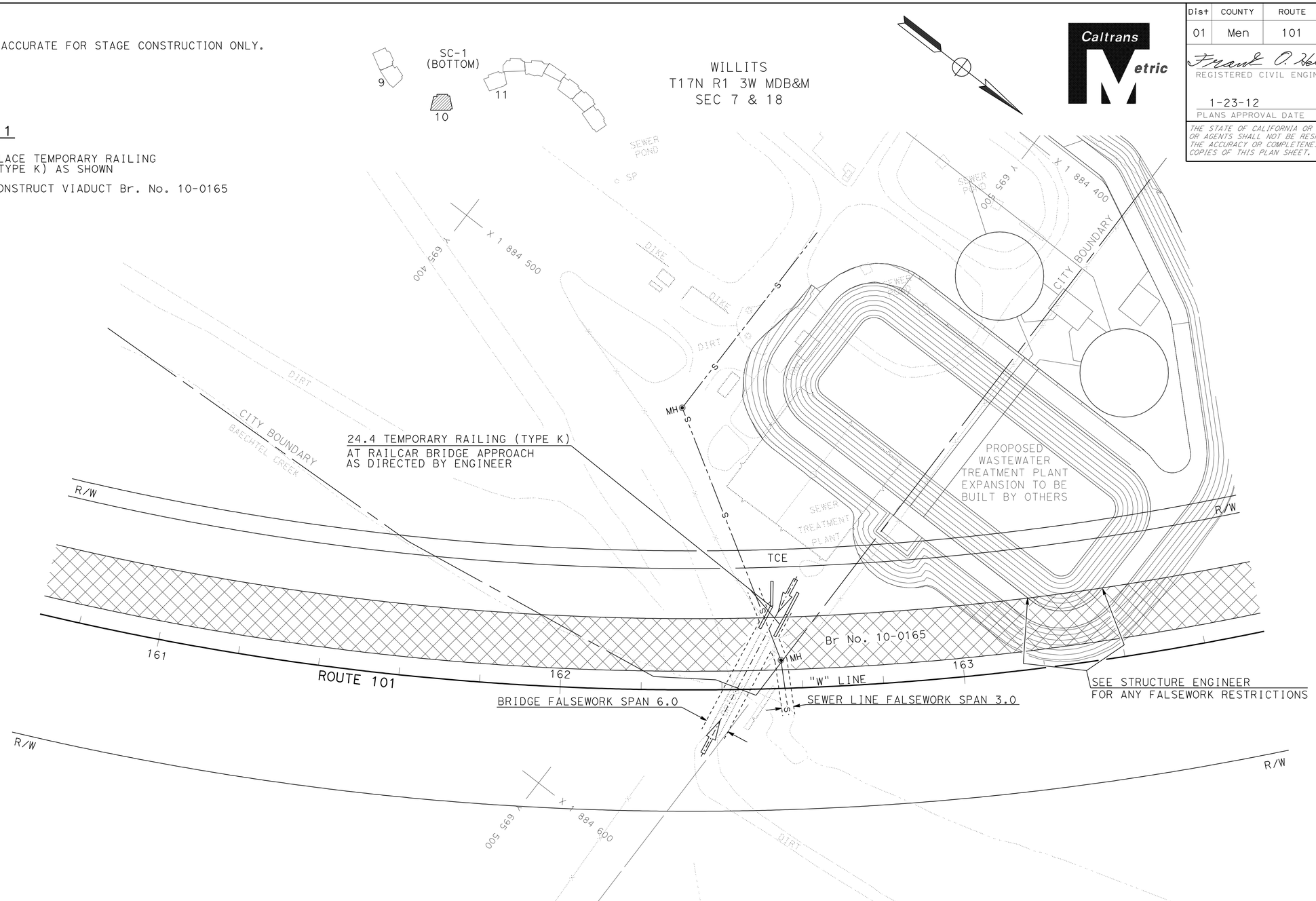
NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 1

(A) PLACE TEMPORARY RAILING (TYPE K) AS SHOWN

(B) CONSTRUCT VIADUCT Br. No. 10-0165



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 1

SCALE 1:500

SC-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY:

REVISED BY | DATE REVISED

LAST REVISION 04-01-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:11

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	430	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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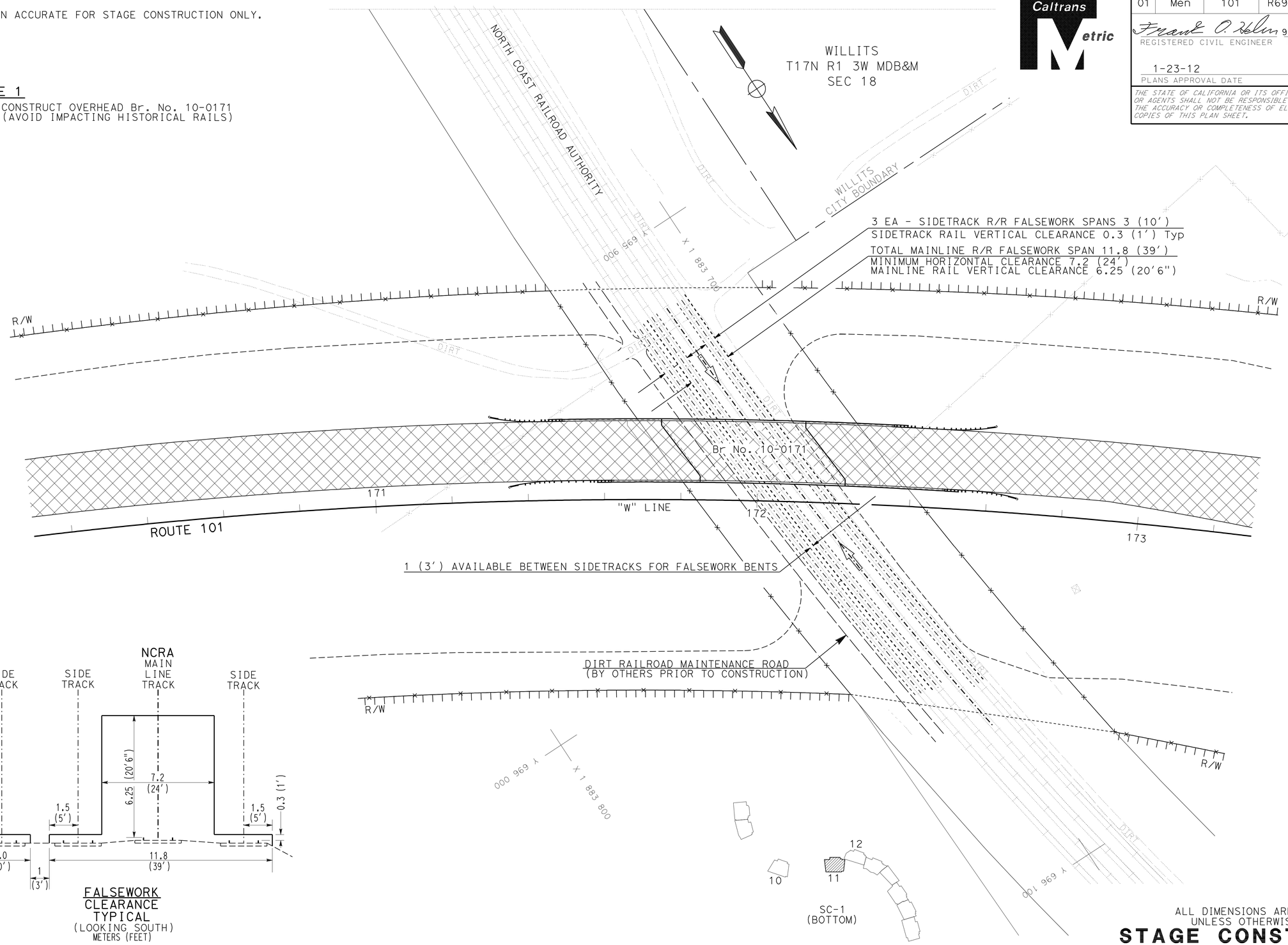
Caltrans Metric

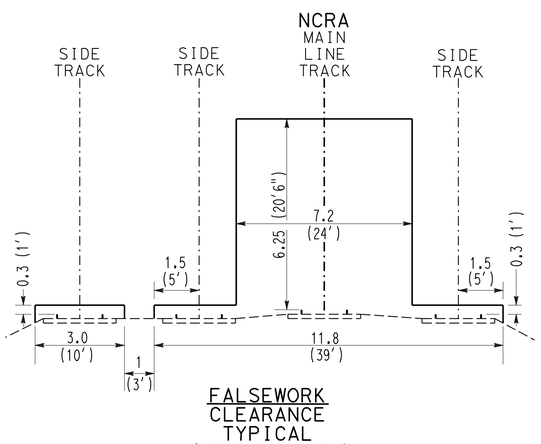
NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 1

(A) CONSTRUCT OVERHEAD Br. No. 10-0171
(AVOID IMPACTING HISTORICAL RAILS)





FALSEWORK
CLEARANCE
TYPICAL
(LOOKING SOUTH)
METERS (FEET)

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 1

SCALE 1:500

SC-11

REVISED BY	DATE REVISED

FRANK HELM

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 04-01-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:11

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	431	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

NOTE:

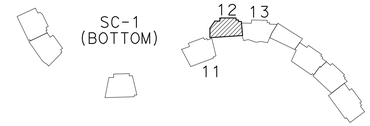
1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 1

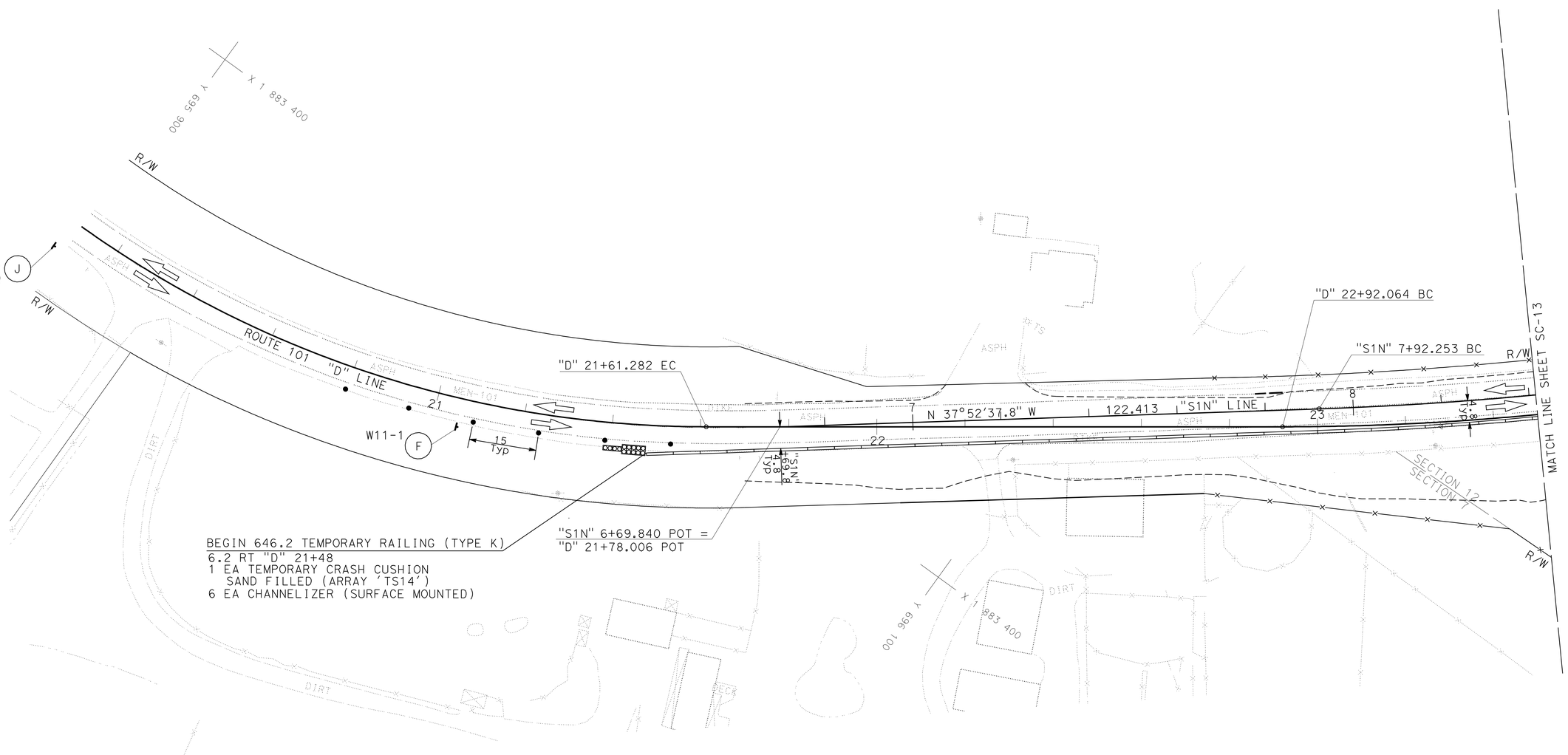
(A) PLACE TEMPORARY RAILING (TYPE K) AS SHOWN

(B) CONSTRUCT "D" LINE AND BULK OF PROJECT RIGHT OF TEMPORARY RAILING (TYPE K) TO NEAR COMPLETION

(C) REMOVE TEMPORARY RAILING (TYPE K) AND REPLACE WITH TRAFFIC PLASTIC DRUMS FOR STAGE 2 "D" LINE CONFORM CONSTRUCTION (SEE SC-24)



WILLITS
T17N R1 3W MDB&M
SEC 7 & 12



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 1

SCALE 1:500

SC-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:11

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	432	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

WILLITS
T17N R1 3W MDB&M
SEC 7 & 12

STAGE 1

(A) PLACE TEMPORARY RAILING (TYPE K) AS SHOWN

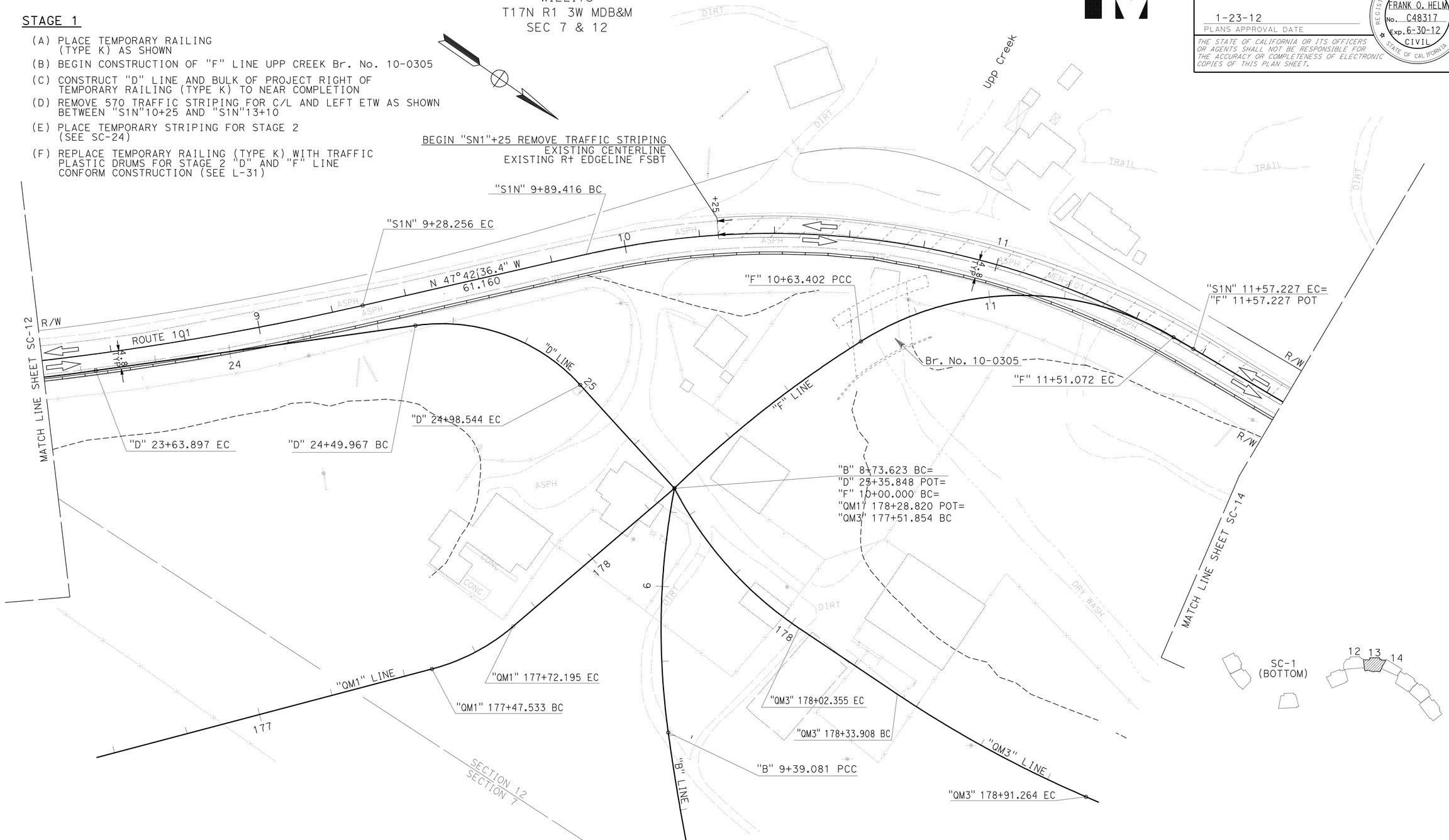
(B) BEGIN CONSTRUCTION OF "F" LINE UPP CREEK Br. No. 10-0305

(C) CONSTRUCT "D" LINE AND BULK OF PROJECT RIGHT OF TEMPORARY RAILING (TYPE K) TO NEAR COMPLETION

(D) REMOVE 570 TRAFFIC STRIPING FOR C/L AND LEFT ETW AS SHOWN BETWEEN "S1N"10+25 AND "S1N"13+10

(E) PLACE TEMPORARY STRIPING FOR STAGE 2 (SEE SC-24)

(F) REPLACE TEMPORARY RAILING (TYPE K) WITH TRAFFIC PLASTIC DRUMS FOR STAGE 2 "D" AND "F" LINE CONFORM CONSTRUCTION (SEE L-31)



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 1

SCALE 1:500

SC-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:12

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	433	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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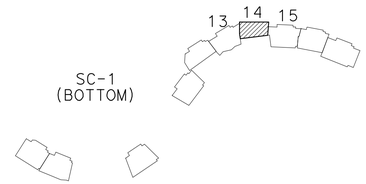
Caltrans Metric

NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.



WILLITS
T17N R1 3W MDB&M
SEC 12

STAGE 1

(A) PLACE TEMPORARY RAILING (TYPE K) AS SHOWN

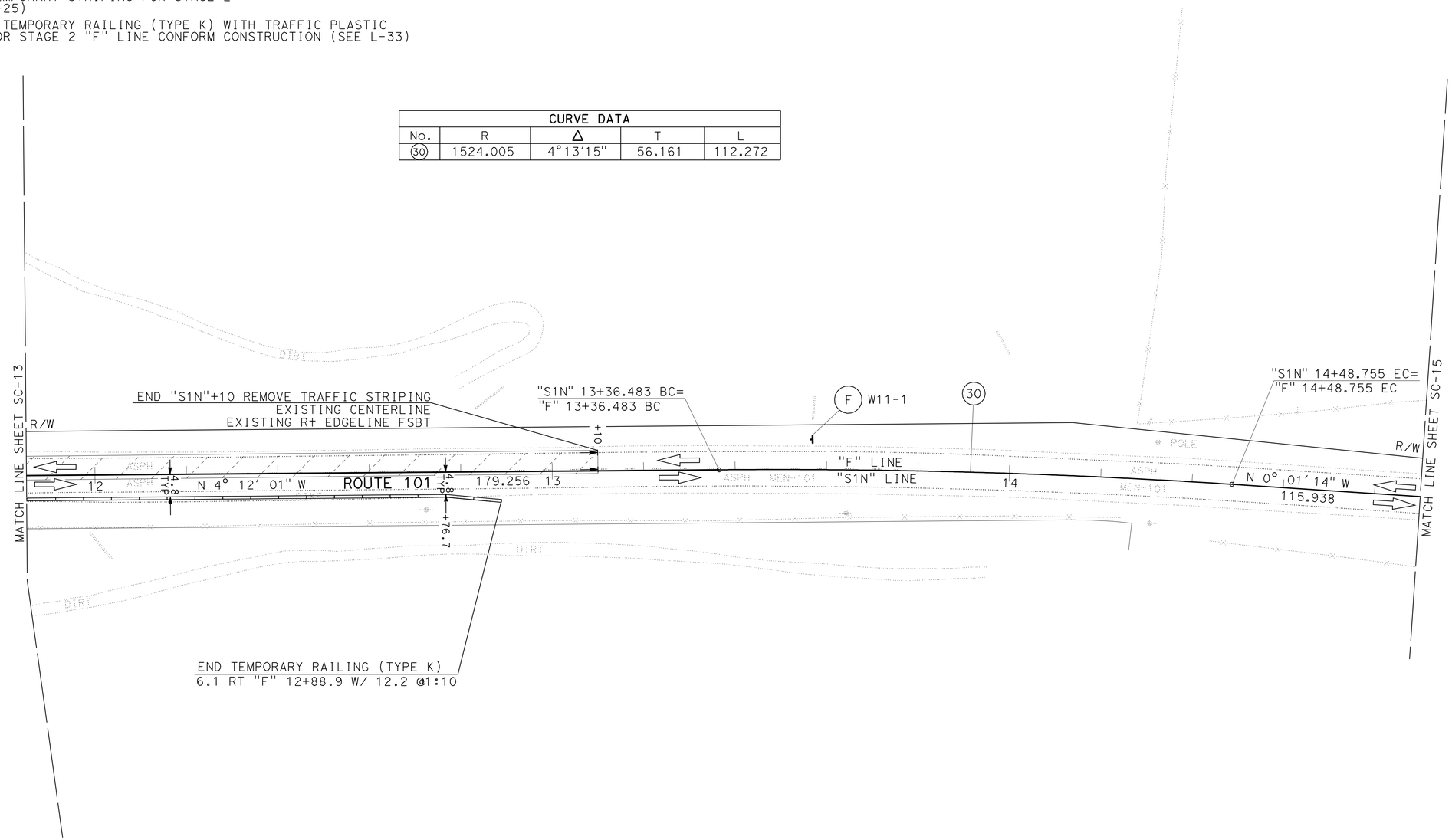
(B) CONSTRUCT BULK OF PROJECT RIGHT OF TEMPORARY RAILING (TYPE K) AND EXISTING HIGHWAY TO NEAR COMPLETION

(C) REMOVE TRAFFIC STRIPING FOR C/L AND LEFT ETW AS SHOWN BETWEEN "S1N"10+25 AND "S1N"13+10

(D) PLACE TEMPORARY STRIPING FOR STAGE 2 (SEE SC-25)

(E) REPLACE TEMPORARY RAILING (TYPE K) WITH TRAFFIC PLASTIC DRUMS FOR STAGE 2 "F" LINE CONFORM CONSTRUCTION (SEE L-33)

CURVE DATA				
No.	R	Δ	T	L
30	1524.005	4°13′15"	56.161	112.272



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 1

SCALE 1:500

SC-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:12

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	434	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

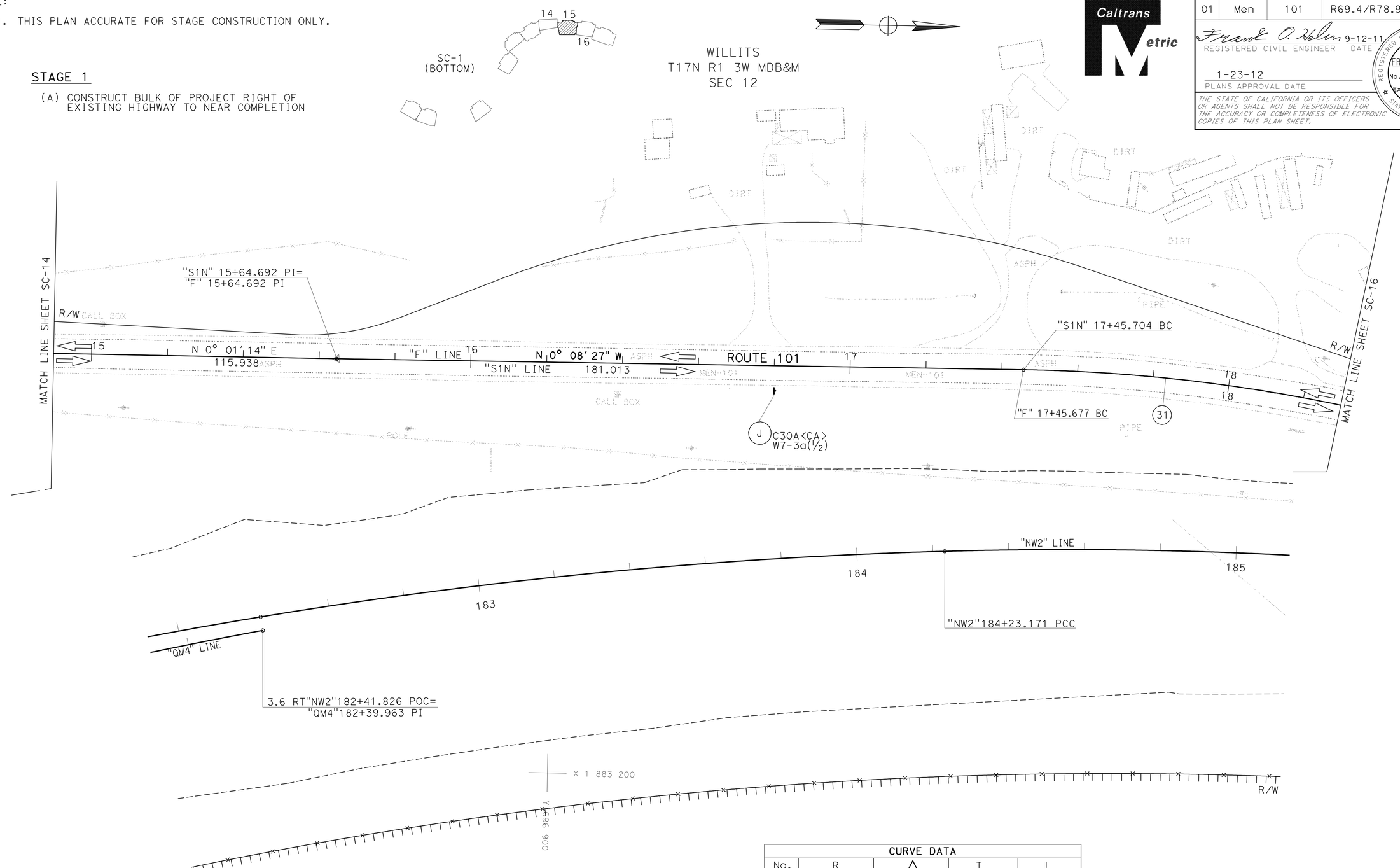
Caltrans Metric

NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 1

(A) CONSTRUCT BULK OF PROJECT RIGHT OF EXISTING HIGHWAY TO NEAR COMPLETION



CURVE DATA				
No.	R	Δ	T	L
31	441.961	18°01'03"	70.068	138.980

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 1

SCALE 1:500

SC-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:12

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	435	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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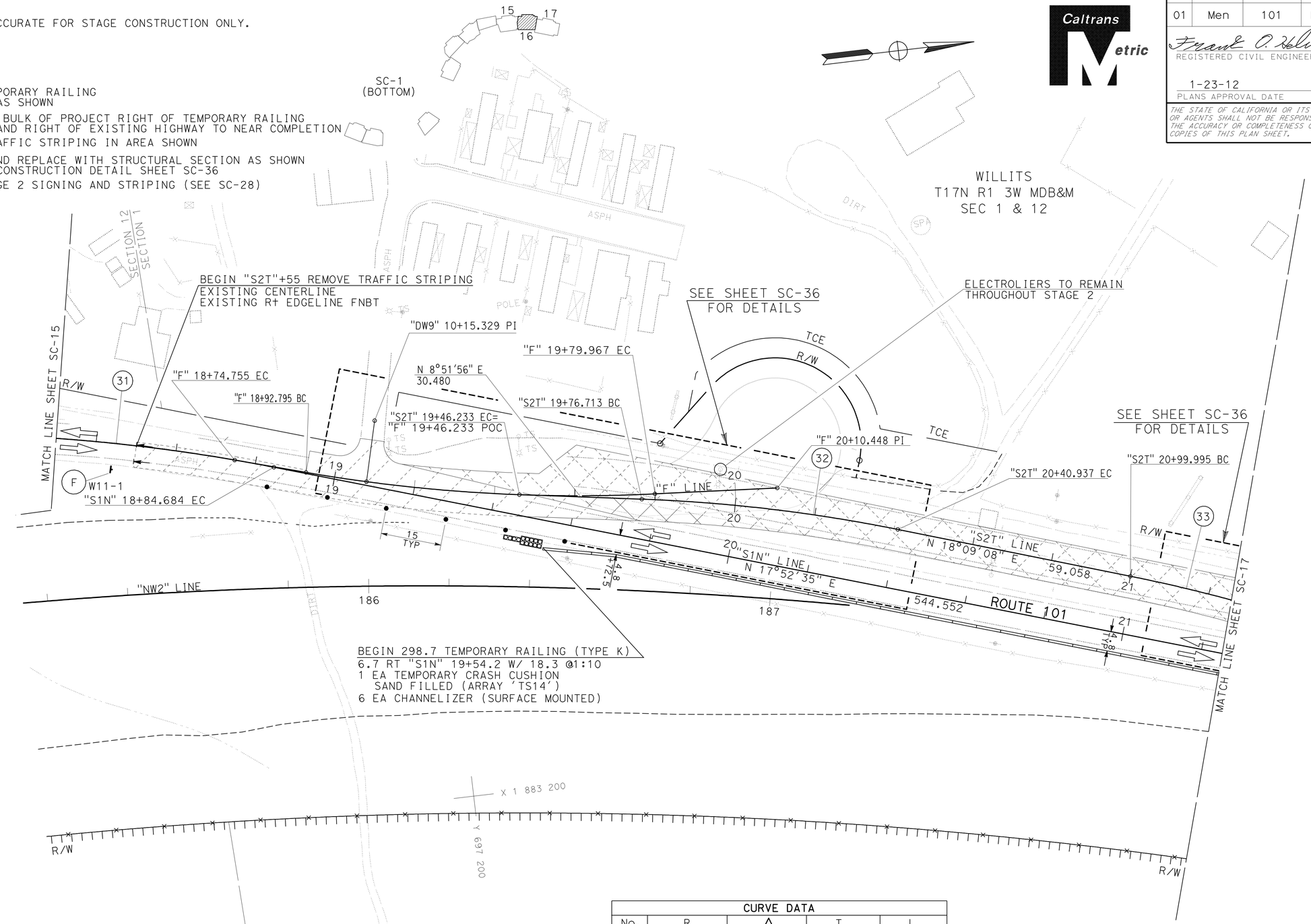
Caltrans Metric

NOTE:
1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 1

(A) PLACE TEMPORARY RAILING (TYPE K) AS SHOWN
(B) CONSTRUCT BULK OF PROJECT RIGHT OF TEMPORARY RAILING (TYPE K) AND RIGHT OF EXISTING HIGHWAY TO NEAR COMPLETION
(C) REMOVE TRAFFIC STRIPING IN AREA SHOWN
(D) GUT OUT AND REPLACE WITH STRUCTURAL SECTION AS SHOWN ON STAGE CONSTRUCTION DETAIL SHEET SC-36
(E) PLACE STAGE 2 SIGNING AND STRIPING (SEE SC-28)



CURVE DATA				
No.	R	Δ	T	L
31	441.961	18°01'03"	70.068	138.980
32	396.241	9°17'12"	32.182	64.224
33	396.241	8°41'54"	30.136	60.155

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 1

SCALE 1:500

SC-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-07-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:12

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	436	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 1

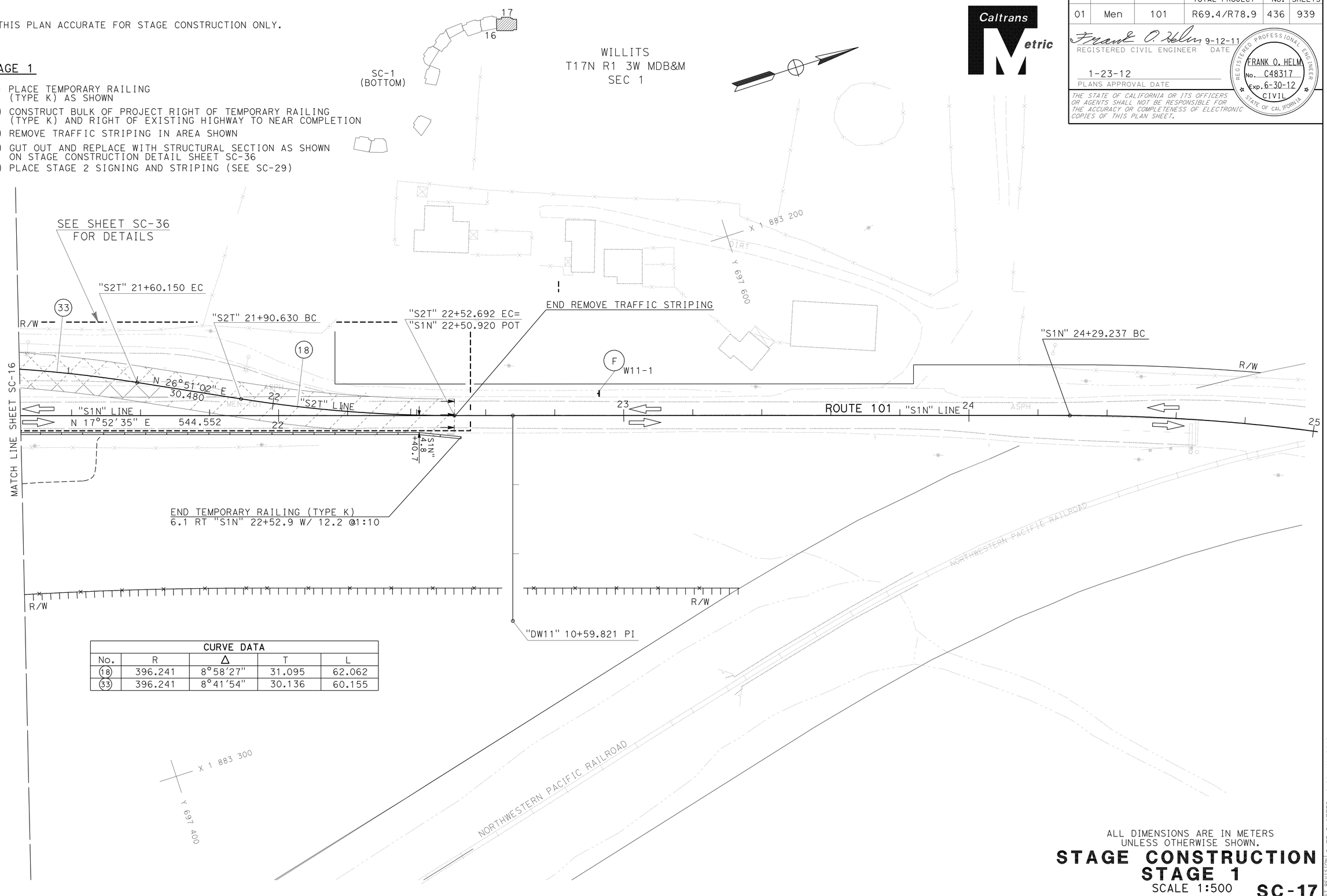
(A) PLACE TEMPORARY RAILING (TYPE K) AS SHOWN

(B) CONSTRUCT BULK OF PROJECT RIGHT OF TEMPORARY RAILING (TYPE K) AND RIGHT OF EXISTING HIGHWAY TO NEAR COMPLETION

(C) REMOVE TRAFFIC STRIPING IN AREA SHOWN

(D) GUT OUT AND REPLACE WITH STRUCTURAL SECTION AS SHOWN ON STAGE CONSTRUCTION DETAIL SHEET SC-36

(E) PLACE STAGE 2 SIGNING AND STRIPING (SEE SC-29)



CURVE DATA				
No.	R	Δ	T	L
18	396.241	8°58'27"	31.095	62.062
33	396.241	8°41'54"	30.136	60.155

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 1

SCALE 1:500

SC-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:12

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	437	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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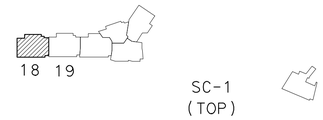
Caltrans Metric

NOTE:

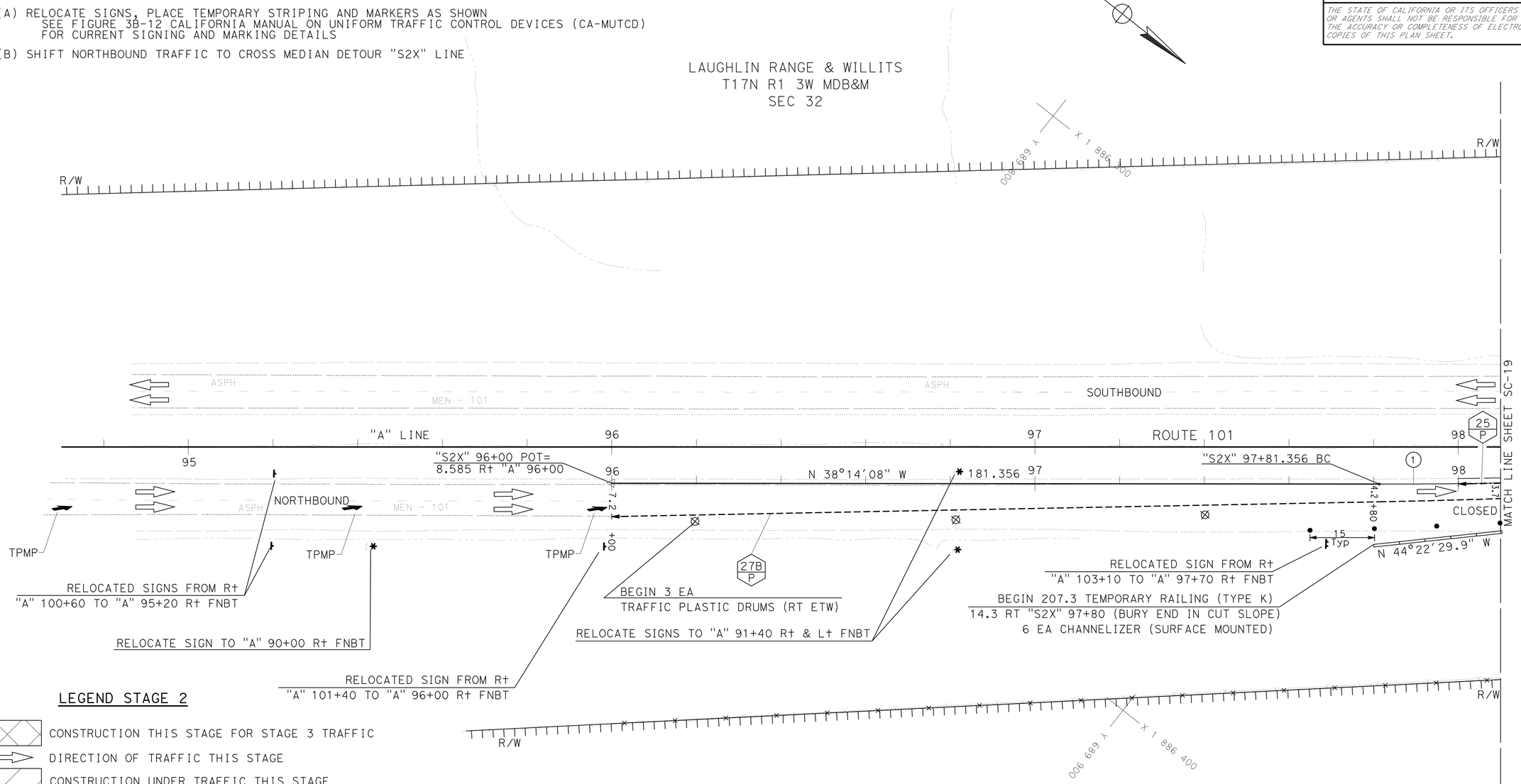
1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.



STAGE 2

(A) RELOCATE SIGNS, PLACE TEMPORARY STRIPING AND MARKERS AS SHOWN
SEE FIGURE 3B-12 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD)
FOR CURRENT SIGNING AND MARKING DETAILS

(B) SHIFT NORTHBOUND TRAFFIC TO CROSS MEDIAN DETOUR "S2X" LINE



LEGEND STAGE 2

- CONSTRUCTION THIS STAGE FOR STAGE 3 TRAFFIC
- DIRECTION OF TRAFFIC THIS STAGE
- CONSTRUCTION UNDER TRAFFIC THIS STAGE
- PLACE OR REMOVE TRAFFIC STRIPING ONLY
- TEMPORARY RAILING (TYPE K)
- TEMPORARY RAILING (TYPE K) REMAINING FROM EARLIER STAGE

CURVE DATA				
No.	R	Δ	T	L
1	1400.000	6°08'22"	75.079	150.014

GENERAL REQUIREMENTS

1. NO ROADWAYS ARE TO BE CLOSED UNTIL REPLACEMENT FACILITIES ARE CONSTRUCTED OR DETOURS READIED AND AVAILABLE FOR PUBLIC USE.
2. FINAL AC OR OGAC COURSE SHALL BE DEFERRED ON ALL ROADWAYS UNTIL TEMPORARY TRAFFIC STRIPING OR DETOURING IS NO LONGER REQUIRED.

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 2

SCALE 1:500

SC-18

REVISED BY | DATE REVISED
FRANK HELM
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 04-01-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:12

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	438	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

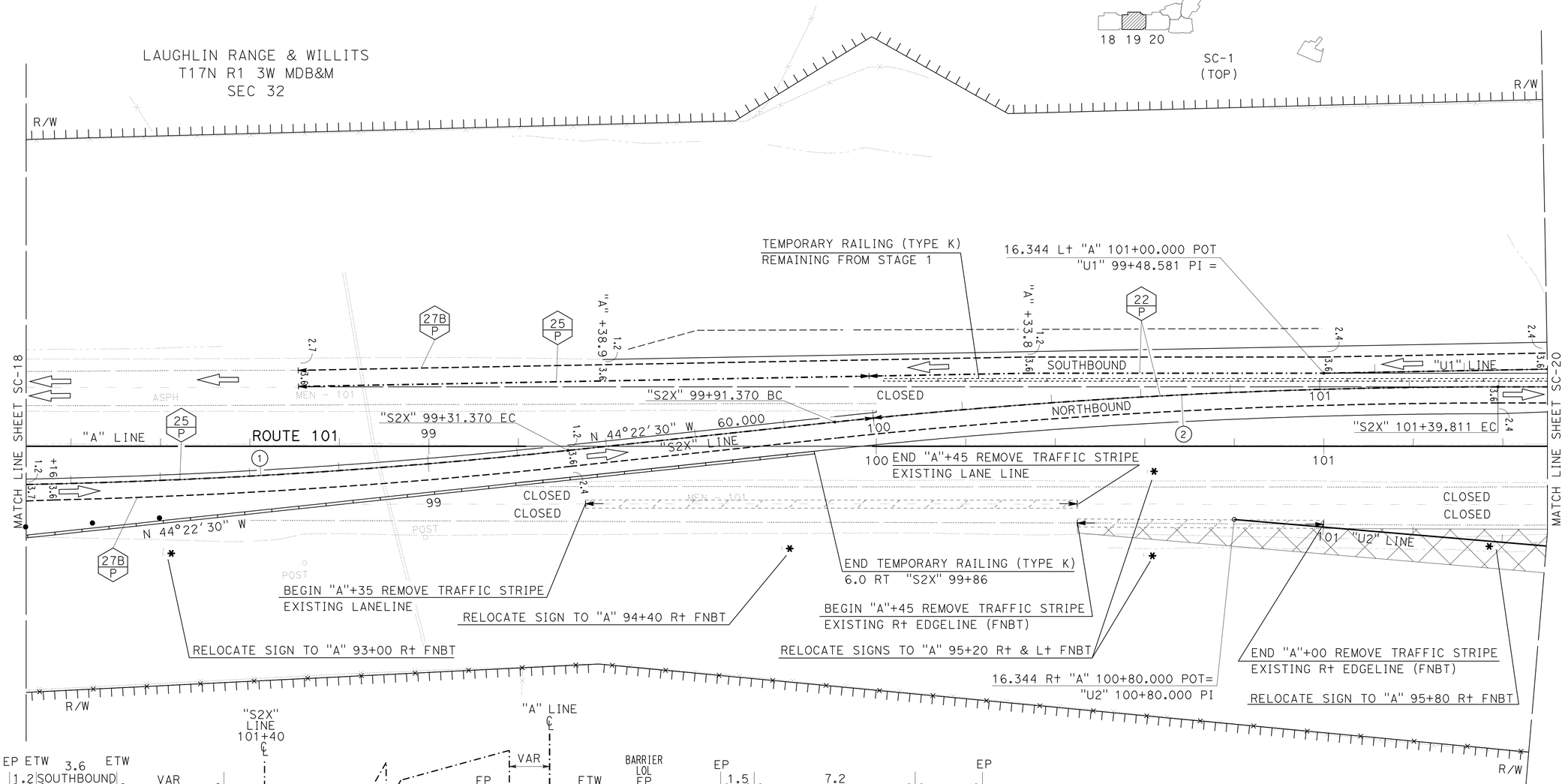
NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

CURVE DATA				
No.	R	Δ	T	L
1	1400.000	6°08'22"	75.079	150.014
2	1400.000	6°04'30"	74.290	148.441

STAGE 2

(A) PLACE TEMPORARY STRIPING AND SHIFT SOUTHBOUND TRAFFIC TO "U1" LINE
(B) PLACE TEMPORARY STRIPING AND SHIFT NORTHBOUND TRAFFIC TO CROSS MEDIAN DETOUR "S2X" LINE
(C) REMOVE ETW STRIPE AS SHOWN AND CONSTRUCT "U3" LINE (SEE LAYOUT PLANS)



TYPICAL SECTION

NO SCALE

NOTE: CHANGES TO FIELD CONDITIONS WILL REQUIRE ADJUSTMENTS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 2

SCALE 1:500

SC-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 09-06-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:12

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	439	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

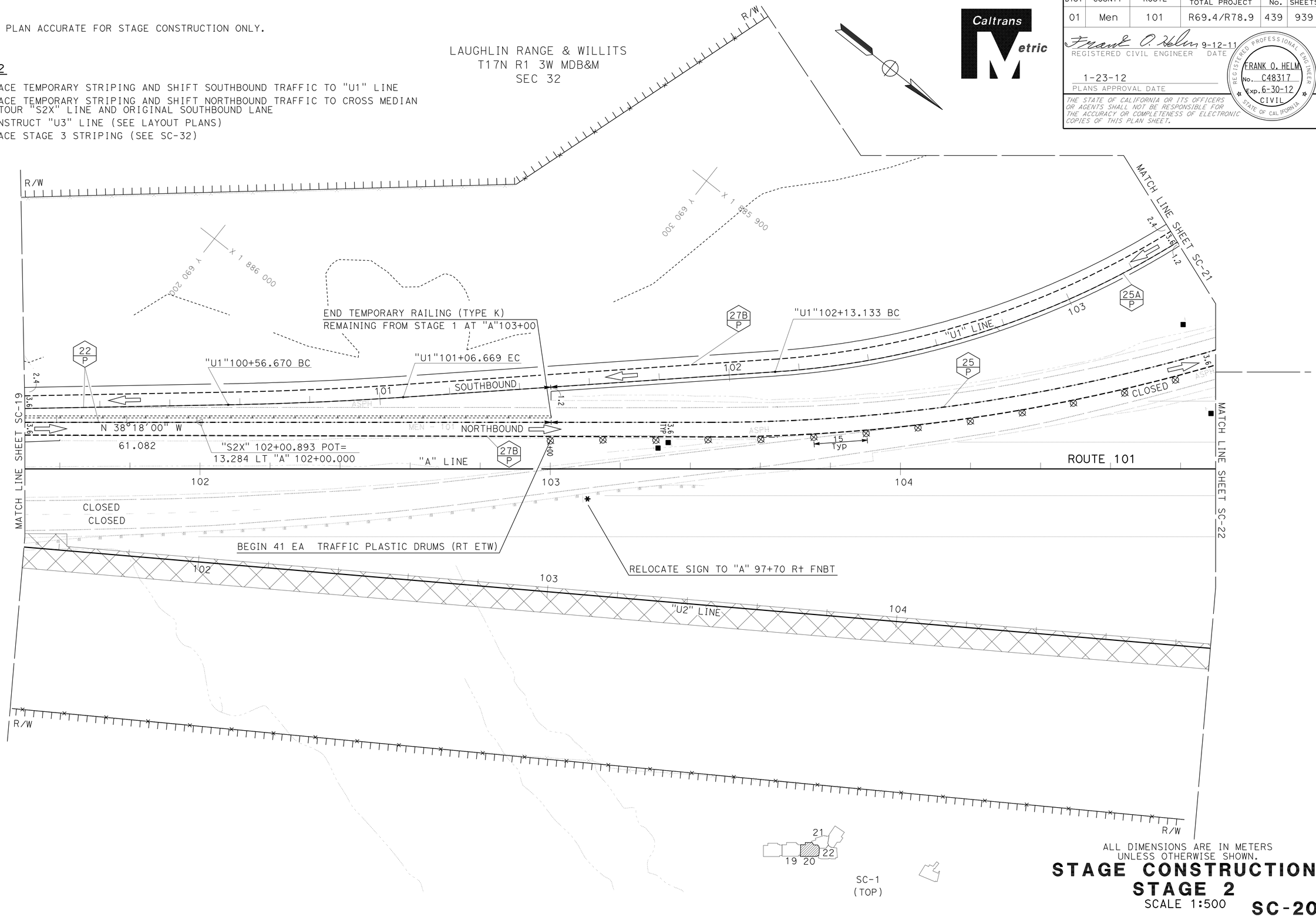
NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

LAUGHLIN RANGE & WILLITS
T17N R1 3W MDB&M
SEC 32

STAGE 2

(A) PLACE TEMPORARY STRIPING AND SHIFT SOUTHBOUND TRAFFIC TO "U1" LINE
(B) PLACE TEMPORARY STRIPING AND SHIFT NORTHBOUND TRAFFIC TO CROSS MEDIAN DETOUR "S2X" LINE AND ORIGINAL SOUTHBOUND LANE
(C) CONSTRUCT "U3" LINE (SEE LAYOUT PLANS)
(D) PLACE STAGE 3 STRIPING (SEE SC-32)



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 2
SCALE 1:500

SC-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:12

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	440	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

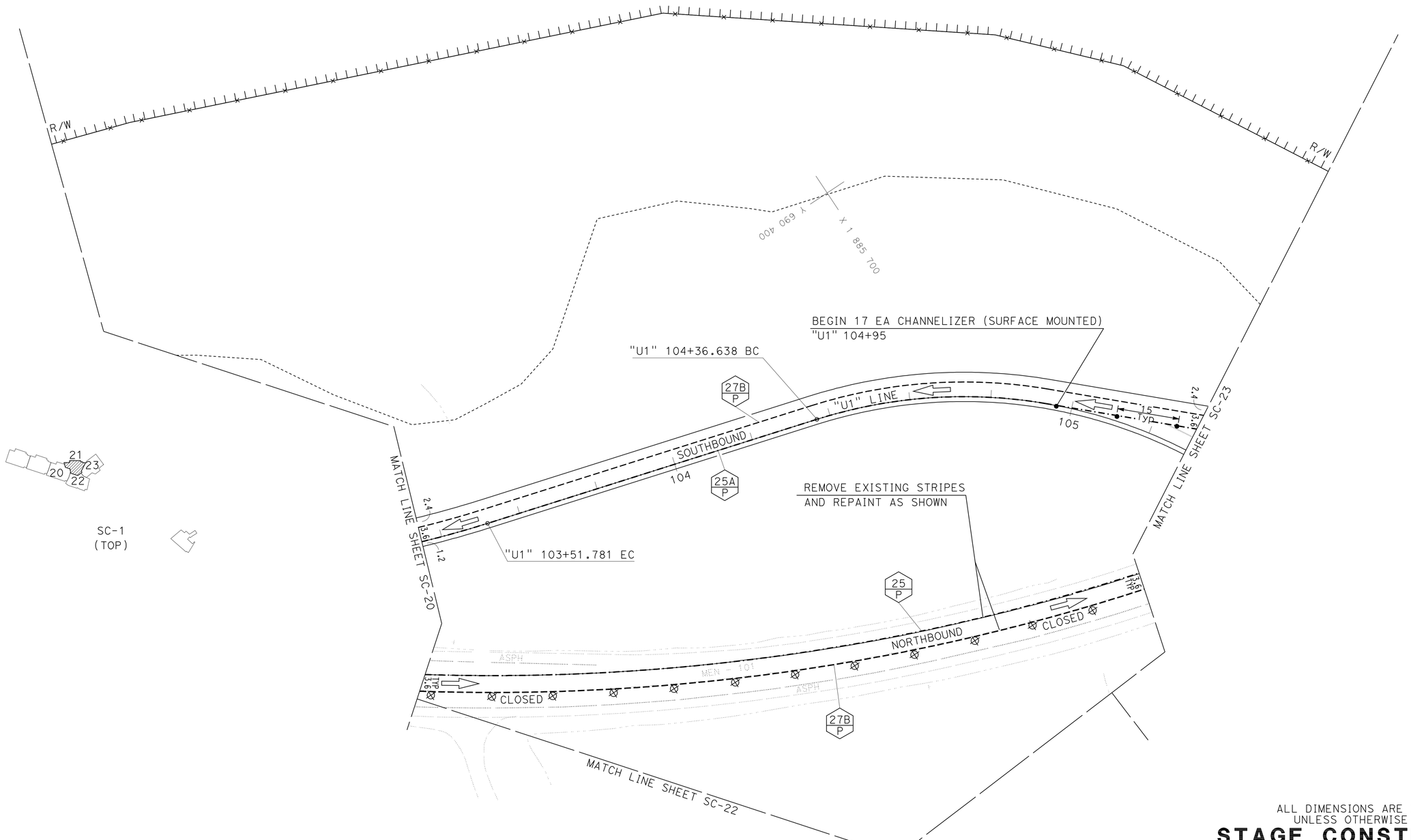
NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 2

(A) PLACE TEMPORARY STRIPING AND SHIFT SOUTHBOUND TRAFFIC TO "U1" LINE
(B) PLACE TEMPORARY STRIPING AND SHIFT NORTHBOUND TRAFFIC TO ORIGINAL SOUTHBOUND LANE
(C) CONSTRUCT "U3" LINE (SEE LAYOUT PLANS)
(D) PLACE STAGE 3 STRIPING (SEE SC-33)

LAUGHLIN RANGE & WILLITS
T17N R1 3W MDB&M
SEC 32



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 2
SCALE 1:500

SC-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:12

NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 2

(A) CONSTRUCT BRIDGES 10-0128L AND 10-0128R TO SOFFIT FALSEWORK REMOVAL (SEE STRUCTURES PLANS)
(B) CONSTRUCT "U3" LINE (SEE LAYOUT PLANS)
(C) CONSTRUCT PORTION OF "H" LINE SHOWN (SEE LAYOUT PLANS)
(D) PLACE STAGE 3 STRIPING (SEE SC-33)

LAUGHLIN RANGE & WILLITS
T17N R1 3W MDB&M
SEC 29 & 32

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	441	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
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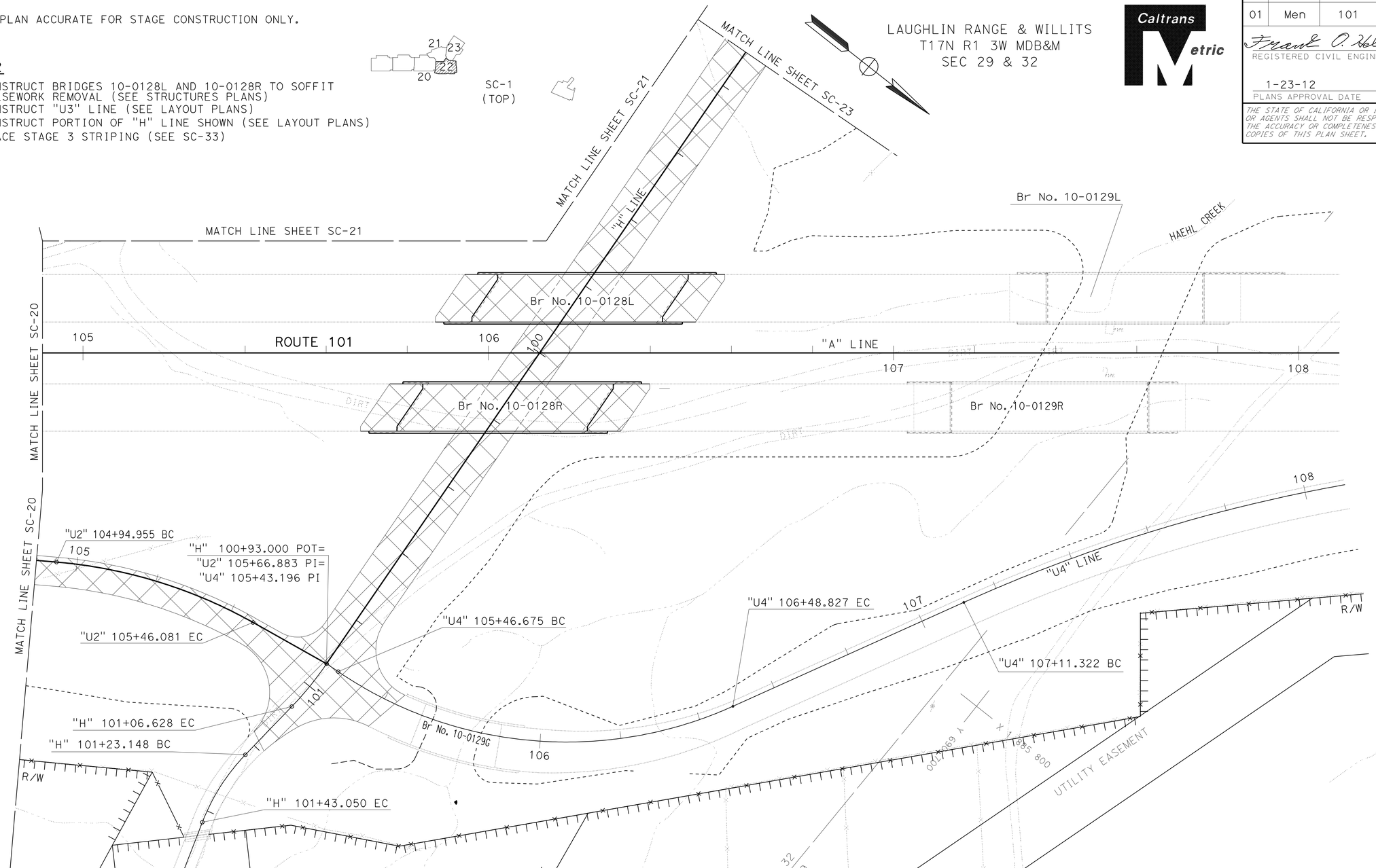
REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 2

SCALE 1:500

SC-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-01-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:12

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	442	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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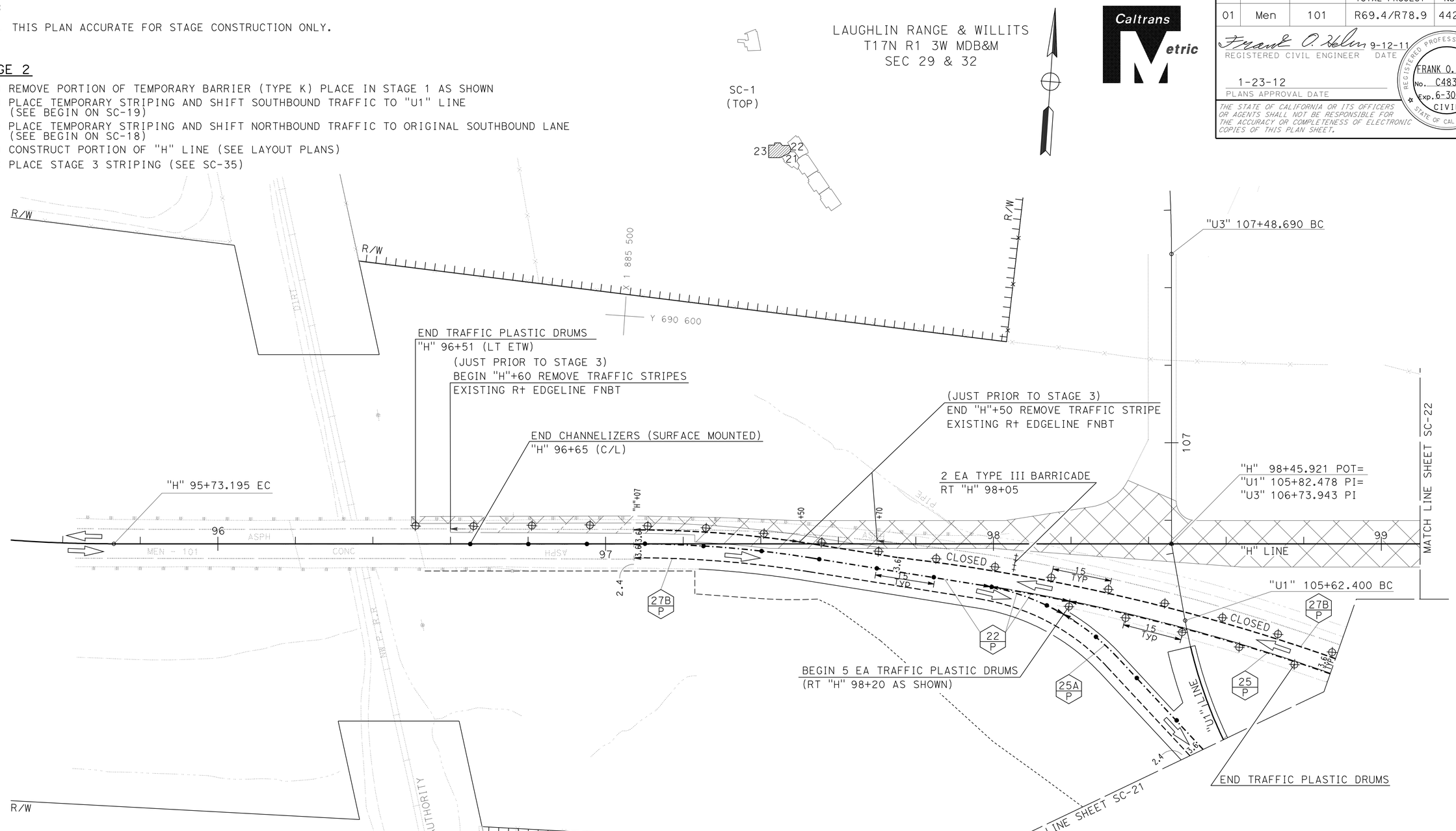
Caltrans Metric

NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 2

(A) REMOVE PORTION OF TEMPORARY BARRIER (TYPE K) PLACE IN STAGE 1 AS SHOWN
(B) PLACE TEMPORARY STRIPING AND SHIFT SOUTHBOUND TRAFFIC TO "U1" LINE (SEE BEGIN ON SC-19)
(C) PLACE TEMPORARY STRIPING AND SHIFT NORTHBOUND TRAFFIC TO ORIGINAL SOUTHBOUND LANE (SEE BEGIN ON SC-18)
(D) CONSTRUCT PORTION OF "H" LINE (SEE LAYOUT PLANS)
(E) PLACE STAGE 3 STRIPING (SEE SC-35)



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 2
SCALE 1:500

SC-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-07-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:13

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	443	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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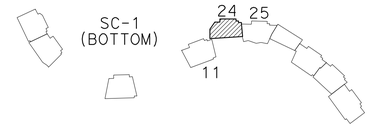
Caltrans Metric

NOTE:

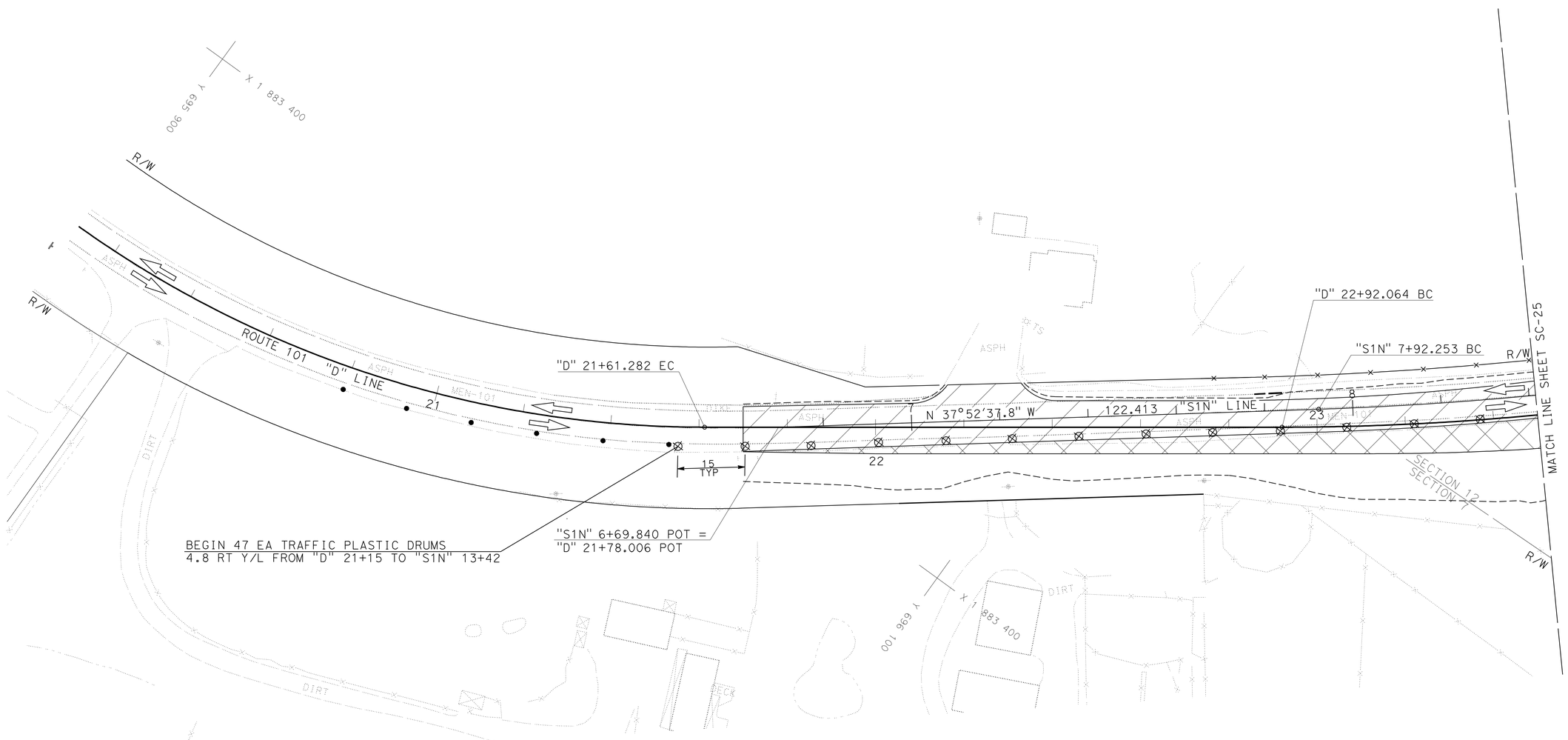
1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 2

(A) PLACE TRAFFIC PLASTIC DRUMS AS SHOWN
(B) CONSTRUCT "D" LINE CONFORM
(C) PLACE FINAL SIGNING AND STRIPING AND SHIFT TRAFFIC TO NEW ALIGNMENT



WILLITS
T17N R1 3W MDB&M
SEC 7 & 12



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 2

SCALE 1:500

SC-24

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:13

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	444	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

WILLITS
T17N R1 3W MDB&M
SEC 7 & 12

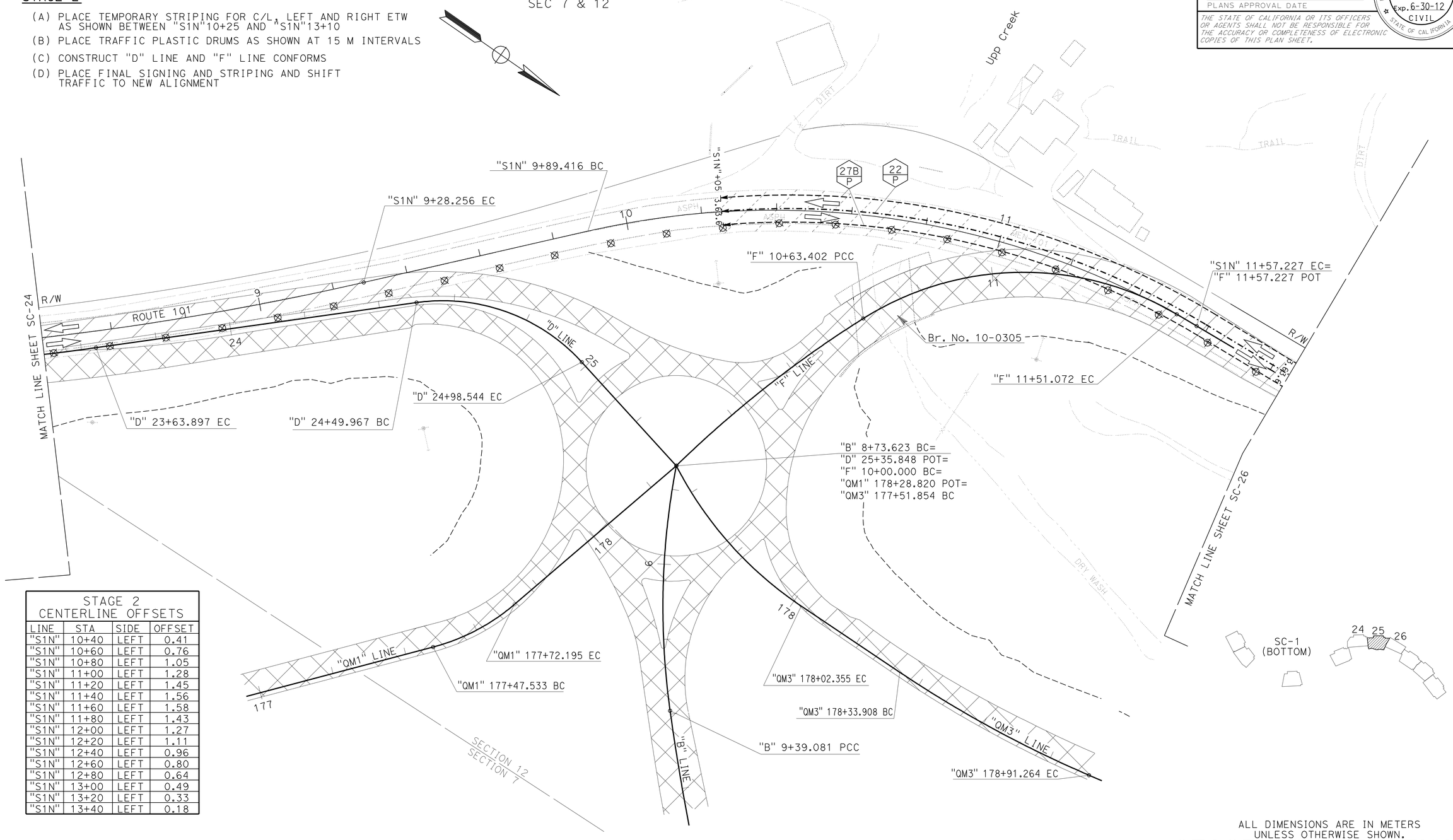
STAGE 2

(A) PLACE TEMPORARY STRIPING FOR C/L, LEFT AND RIGHT ETW AS SHOWN BETWEEN "S1N"10+25 AND "S1N"13+10

(B) PLACE TRAFFIC PLASTIC DRUMS AS SHOWN AT 15 M INTERVALS

(C) CONSTRUCT "D" LINE AND "F" LINE CONFORMS

(D) PLACE FINAL SIGNING AND STRIPING AND SHIFT TRAFFIC TO NEW ALIGNMENT



STAGE 2
CENTERLINE OFFSETS

LINE	STA	SIDE	OFFSET
"S1N"	10+40	LEFT	0.41
"S1N"	10+60	LEFT	0.76
"S1N"	10+80	LEFT	1.05
"S1N"	11+00	LEFT	1.28
"S1N"	11+20	LEFT	1.45
"S1N"	11+40	LEFT	1.56
"S1N"	11+60	LEFT	1.58
"S1N"	11+80	LEFT	1.43
"S1N"	12+00	LEFT	1.27
"S1N"	12+20	LEFT	1.11
"S1N"	12+40	LEFT	0.96
"S1N"	12+60	LEFT	0.80
"S1N"	12+80	LEFT	0.64
"S1N"	13+00	LEFT	0.49
"S1N"	13+20	LEFT	0.33
"S1N"	13+40	LEFT	0.18

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 2
SCALE 1:500

SC-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:13

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	445	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 2

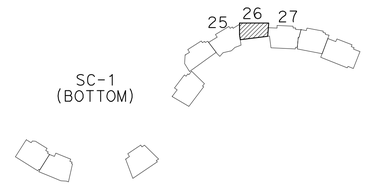
(A) PLACE TEMPORARY STRIPING FOR C/L, LEFT AND RIGHT ETW AS SHOWN BETWEEN "S1N"10+25 AND "S1N"13+10 (SEE SC-25)

(B) PLACE TRAFFIC PLASTIC DRUMS AS SHOWN AT 15 INTERVALS

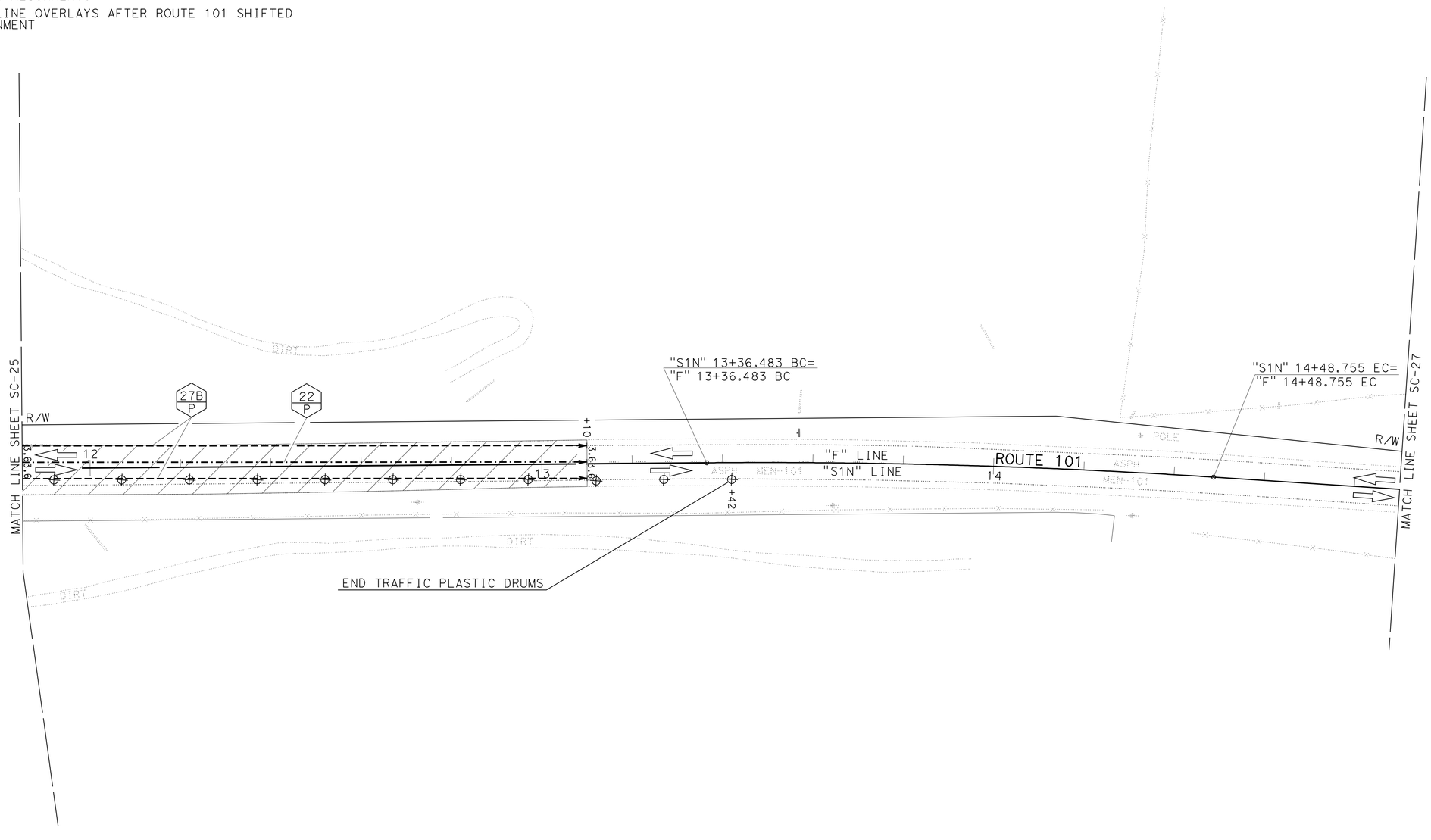
(C) CONSTRUCT "F" LINE CONFORMS ONLY

(D) PLACE FINAL SIGNING AND STRIPING AND SHIFT TRAFFIC TO NEW ALIGNMENTS

(E) COMPLETE "F" LINE OVERLAYS AFTER ROUTE 101 SHIFTED TO FINAL ALIGNMENT



WILLITS
T17N R1 3W MDB&M
SEC 12



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 2

SCALE 1:500

SC-26

REVISED BY	DATE REVISED

FRANK HELM

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:13

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	446	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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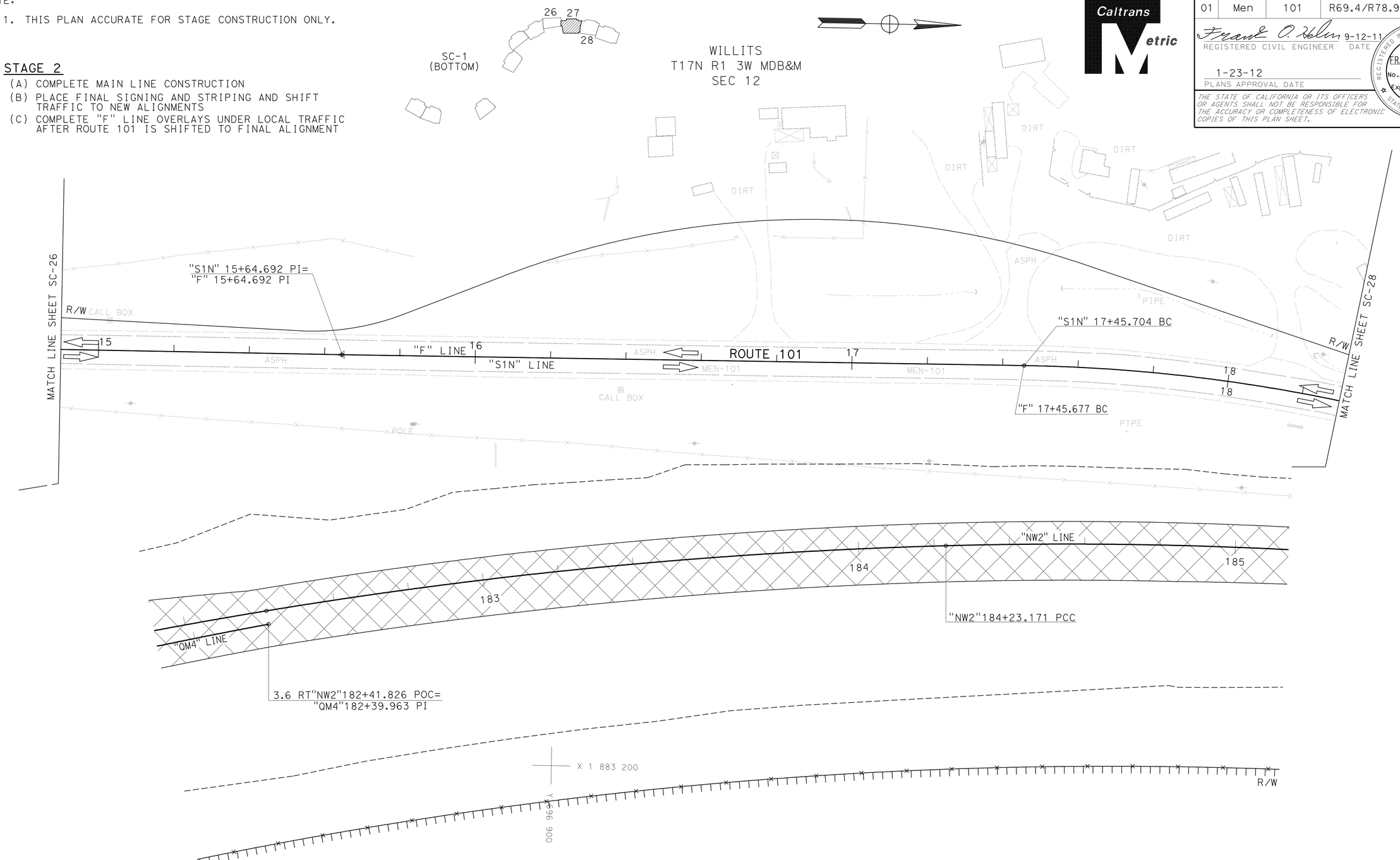
Caltrans Metric

NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 2

(A) COMPLETE MAIN LINE CONSTRUCTION
(B) PLACE FINAL SIGNING AND STRIPING AND SHIFT TRAFFIC TO NEW ALIGNMENTS
(C) COMPLETE "F" LINE OVERLAYS UNDER LOCAL TRAFFIC AFTER ROUTE 101 IS SHIFTED TO FINAL ALIGNMENT



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 2
SCALE 1:500

SC-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:13

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	447	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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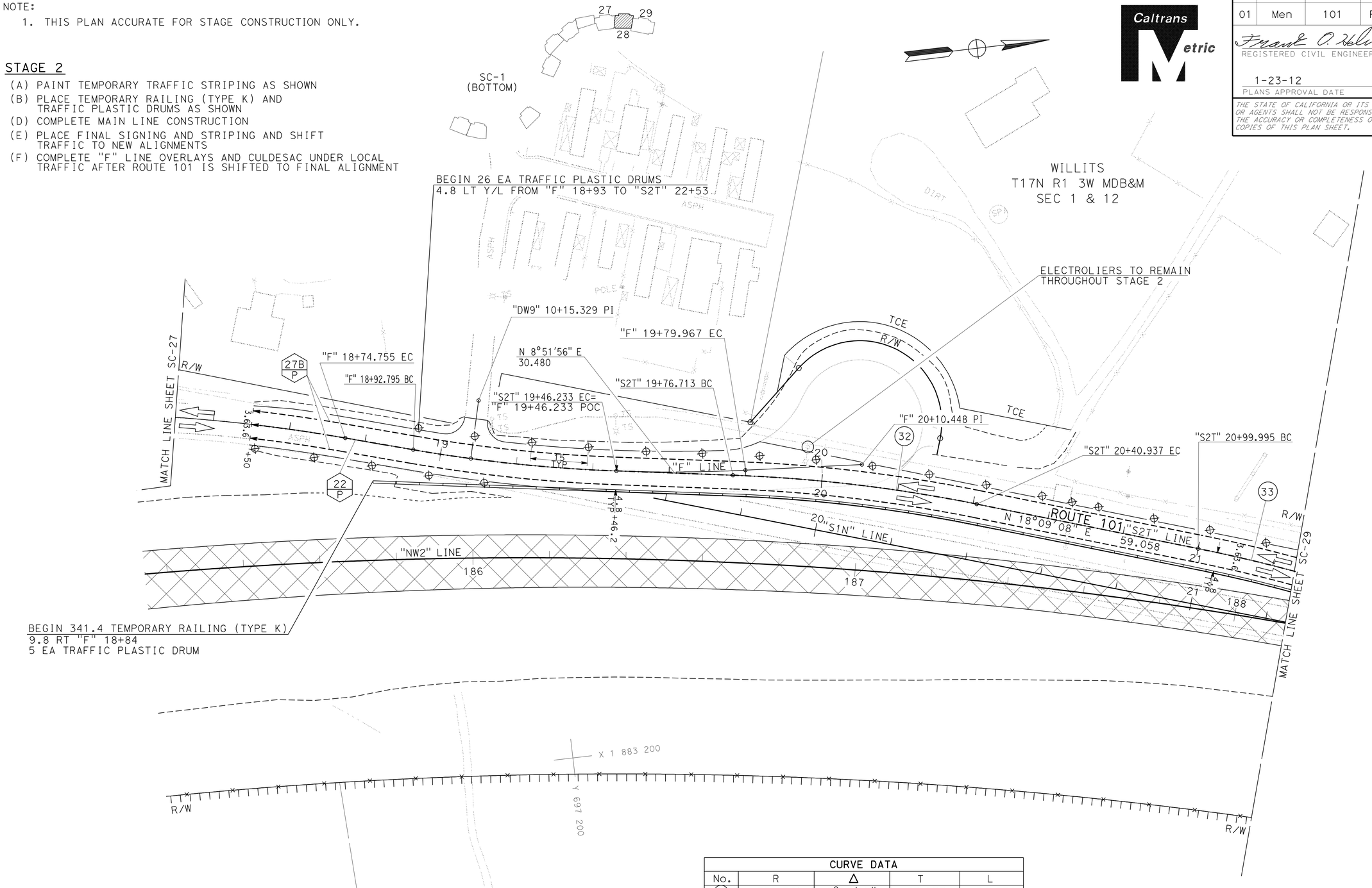
Caltrans Metric

NOTE:
1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 2
(A) PAINT TEMPORARY TRAFFIC STRIPING AS SHOWN
(B) PLACE TEMPORARY RAILING (TYPE K) AND TRAFFIC PLASTIC DRUMS AS SHOWN
(D) COMPLETE MAIN LINE CONSTRUCTION
(E) PLACE FINAL SIGNING AND STRIPING AND SHIFT TRAFFIC TO NEW ALIGNMENTS
(F) COMPLETE "F" LINE OVERLAYS AND CULDESAC UNDER LOCAL TRAFFIC AFTER ROUTE 101 IS SHIFTED TO FINAL ALIGNMENT



CURVE DATA				
No.	R	Δ	T	L
32	396.241	9°17'12"	32.182	64.224
33	396.241	8°41'54"	30.136	60.155

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 2
SCALE 1:500

SC-28

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 08-25-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:13

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	448	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

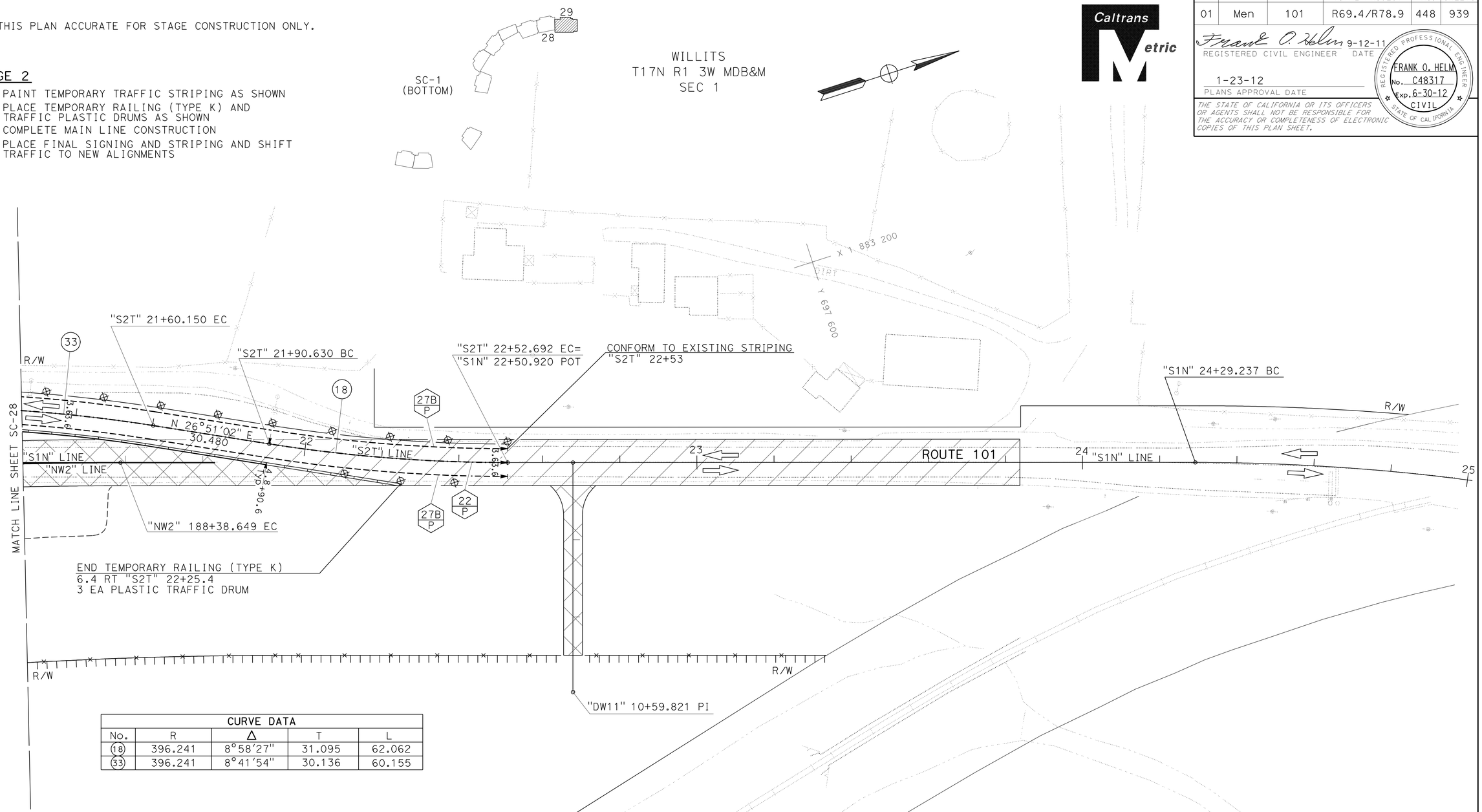
Caltrans Metric

NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 2

(A) PAINT TEMPORARY TRAFFIC STRIPING AS SHOWN
(B) PLACE TEMPORARY RAILING (TYPE K) AND TRAFFIC PLASTIC DRUMS AS SHOWN
(D) COMPLETE MAIN LINE CONSTRUCTION
(E) PLACE FINAL SIGNING AND STRIPING AND SHIFT TRAFFIC TO NEW ALIGNMENTS



CURVE DATA				
No.	R	Δ	T	L
18	396.241	8°58'27"	31.095	62.062
33	396.241	8°41'54"	30.136	60.155

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 2

SCALE 1:500

SC-29

FRANK HELM — REVISED BY — DATE REVISED — CALCULATED-DESIGNED BY — CHECKED BY — FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 04-01-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:13

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	449	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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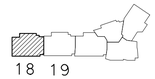
Caltrans Metric

NOTE:

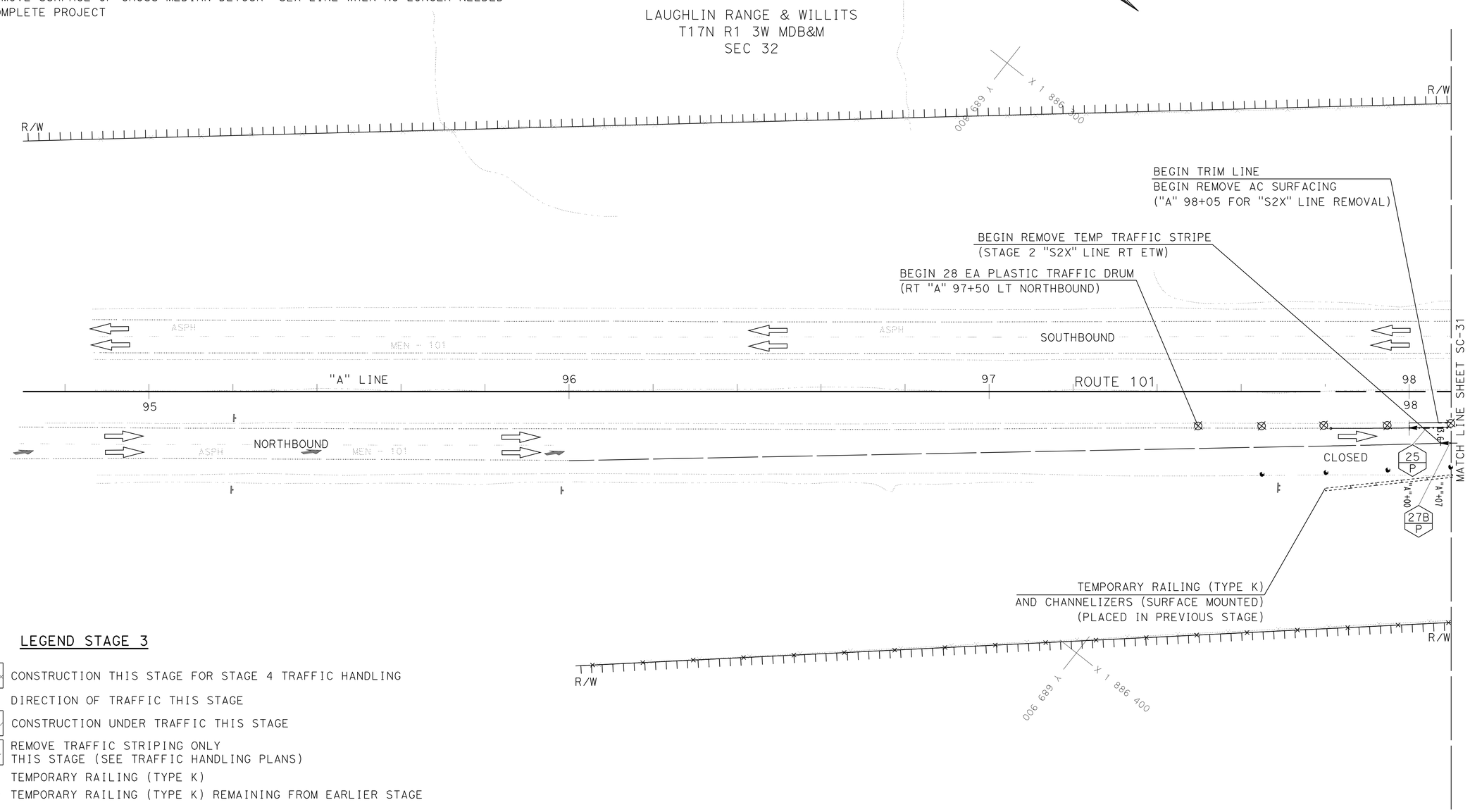
1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.



SC-1
(TOP)

STAGE 3

(A) REMOVE PORTION OF TEMPORARY RAILING PLACED IN EARIER STAGES
(B) PLACE TEMPORARY STRIPING AS SHOWN
(C) SHIFT NORTHBOUND TRAFFIC TO OFF-RAMP "U2" LINE
(D) REMOVE SURFACE OF CROSS MEDIAN DETOUR "S2X"LINE WHEN NO LONGER NEEDED
(E) COMPLETE PROJECT



LEGEND STAGE 3

- CONSTRUCTION THIS STAGE FOR STAGE 4 TRAFFIC HANDLING
- DIRECTION OF TRAFFIC THIS STAGE
- CONSTRUCTION UNDER TRAFFIC THIS STAGE
- REMOVE TRAFFIC STRIPING ONLY THIS STAGE (SEE TRAFFIC HANDLING PLANS)
- TEMPORARY RAILING (TYPE K)
- TEMPORARY RAILING (TYPE K) REMAINING FROM EARLIER STAGE

GENERAL REQUIREMENTS

1. NO ROADWAYS ARE TO BE CLOSED UNTIL REPLACEMENT FACILITIES ARE CONSTRUCTED OR DETOURS READIED AND AVAILABLE FOR PUBLIC USE.
2. FINAL AC OR OGAC COURSE SHALL BE DEFERRED ON ALL ROADWAYS UNTIL TEMPORARY TRAFFIC STRIPING OR DETOURING IS NO LONGER REQUIRED.

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 3

SCALE 1:500

SC-30

REVISED BY | DATE REVISED
FRANK HELM
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 04-12-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:13

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	450	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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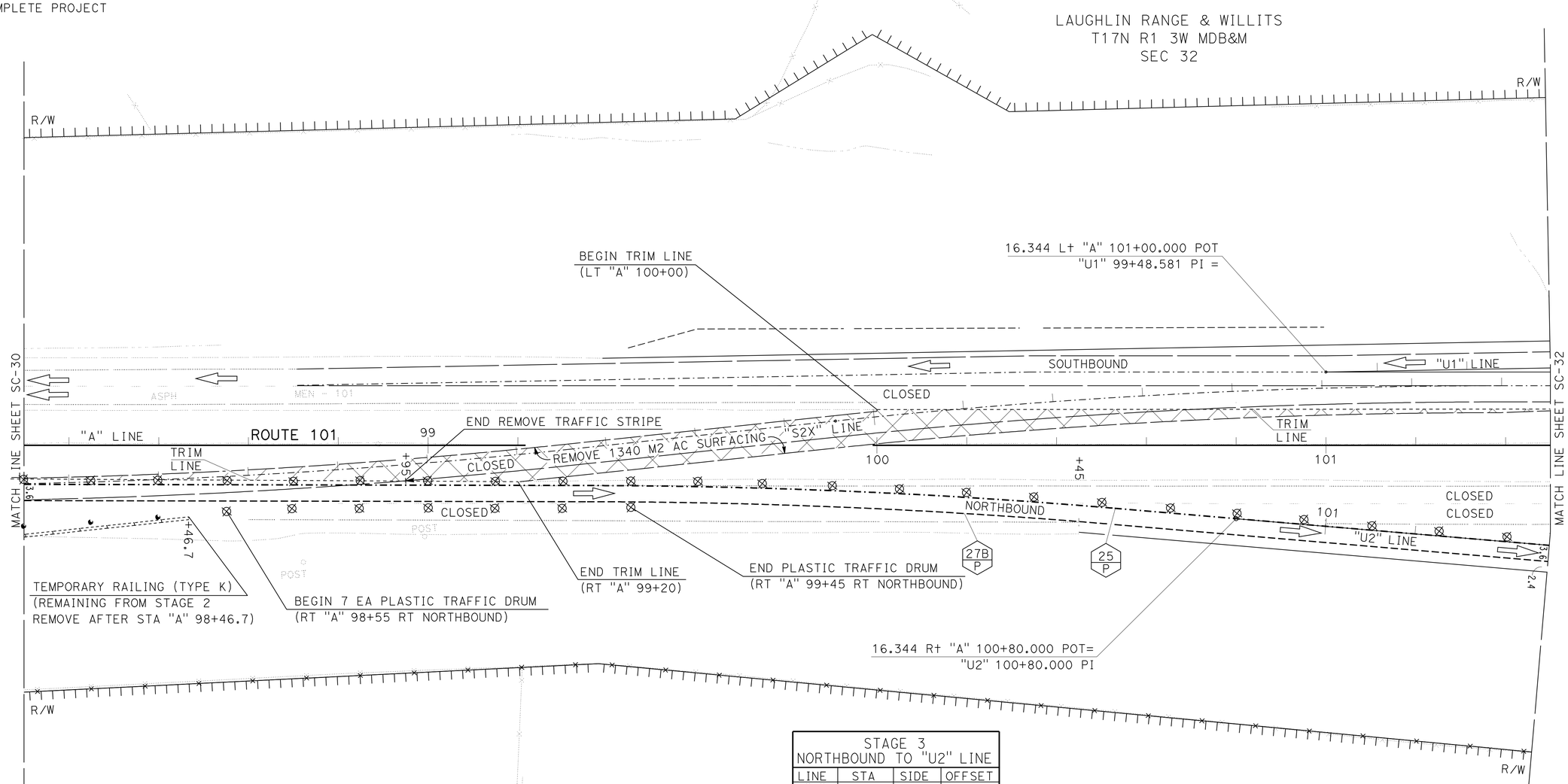
Caltrans Metric

NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 3

(A) REMOVE PORTION OF TEMPORARY RAILING PLACED IN EARIER STAGES
(B) PLACE TEMPORARY STRIPING AS SHOWN
(C) SHIFT NORTHBOUND TRAFFIC TO OFF-RAMP "U2" LINE
(D) REMOVE SURFACE OF CROSS MEDIAN DETOUR "S2X"LINE WHEN NO LONGER NEEDED
(E) COMPLETE PROJECT



STAGE 3 NORTHBOUND TO "U2" LINE			
LINE	STA	SIDE	OFFSET
"A"	99+40	RIGHT	8.97
"A"	99+60	RIGHT	9.20
"A"	99+80	RIGHT	9.72
"A"	100+00	RIGHT	10.52
"A"	100+20	RIGHT	11.61
"A"	100+40	RIGHT	12.99
"A"	100+60	RIGHT	14.63

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 3
SCALE 1:500

SC-31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:13

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	451	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

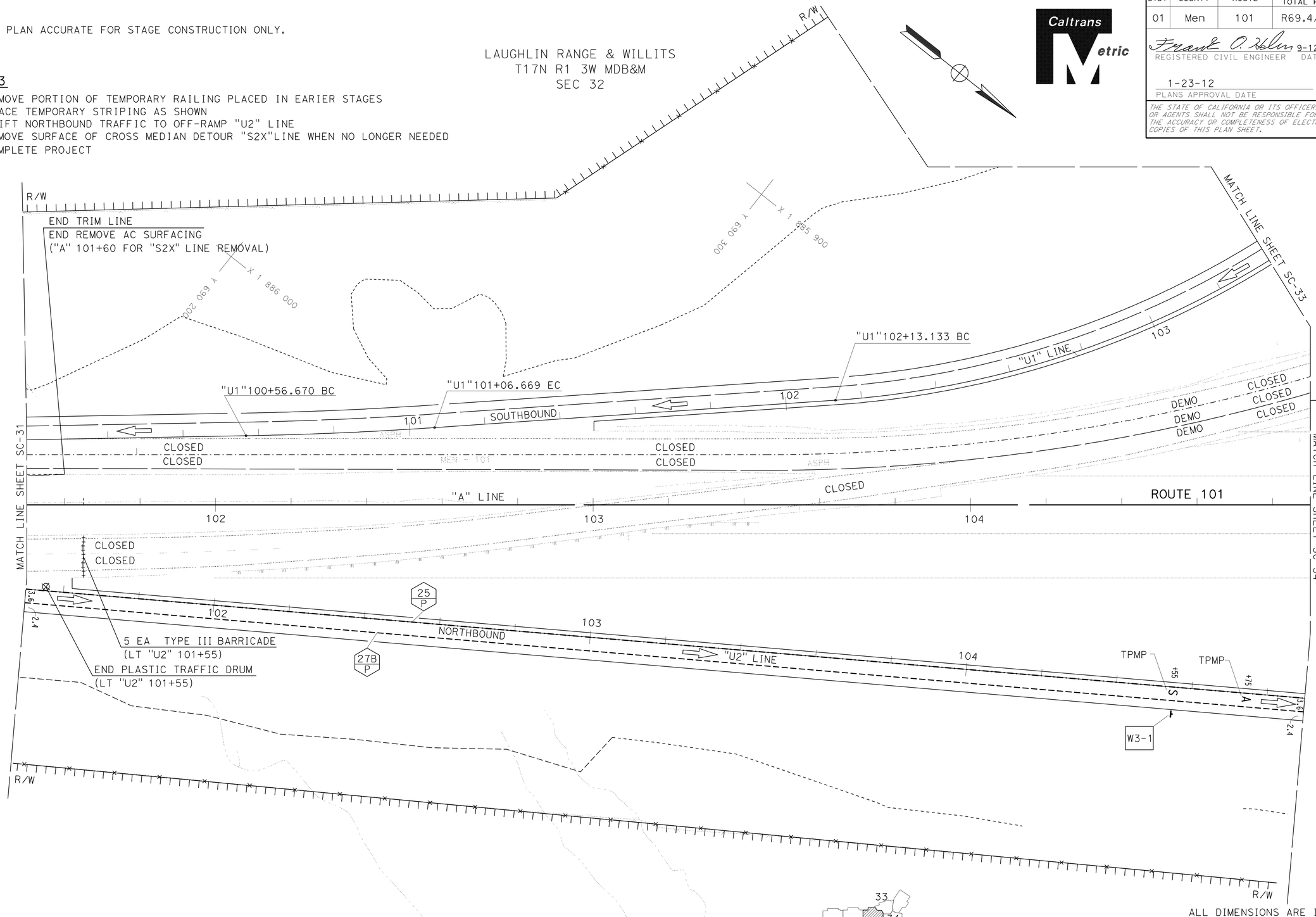
NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

LAUGHLIN RANGE & WILLITS
T17N R1 3W MDB&M
SEC 32

STAGE 3

(A) REMOVE PORTION OF TEMPORARY RAILING PLACED IN EARIER STAGES
(B) PLACE TEMPORARY STRIPING AS SHOWN
(C) SHIFT NORTHBOUND TRAFFIC TO OFF-RAMP "U2" LINE
(D) REMOVE SURFACE OF CROSS MEDIAN DETOUR "S2X"LINE WHEN NO LONGER NEEDED
(E) COMPLETE PROJECT



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 3
SCALE 1:500

SC-32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-12-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:41

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	452	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

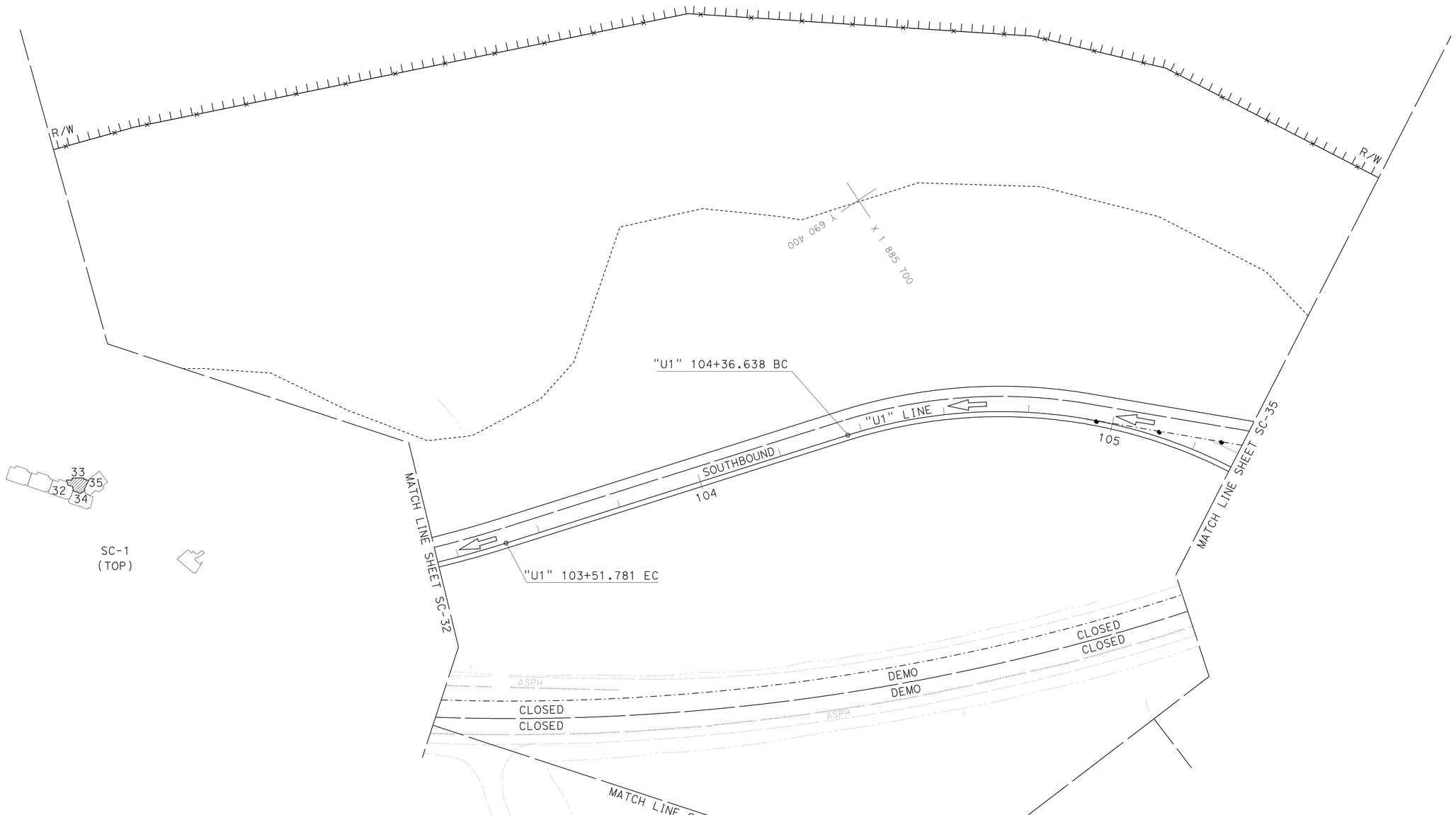
NOTE:

1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 3

(A) REMOVE PORTION OF TEMPORARY RAILING PLACED IN EARIER STAGES
(B) SHIFT NORTHBOUND TRAFFIC TO OFF-RAMP "U2" LINE
(C) COMPLETE PROJECT

LAUGHLIN RANGE & WILLITS
T17N R1 3W MDB&M
SEC 32



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 3
SCALE 1:500

SC-33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-01-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:42

NOTE:
1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	453	939

Frank O. Helm 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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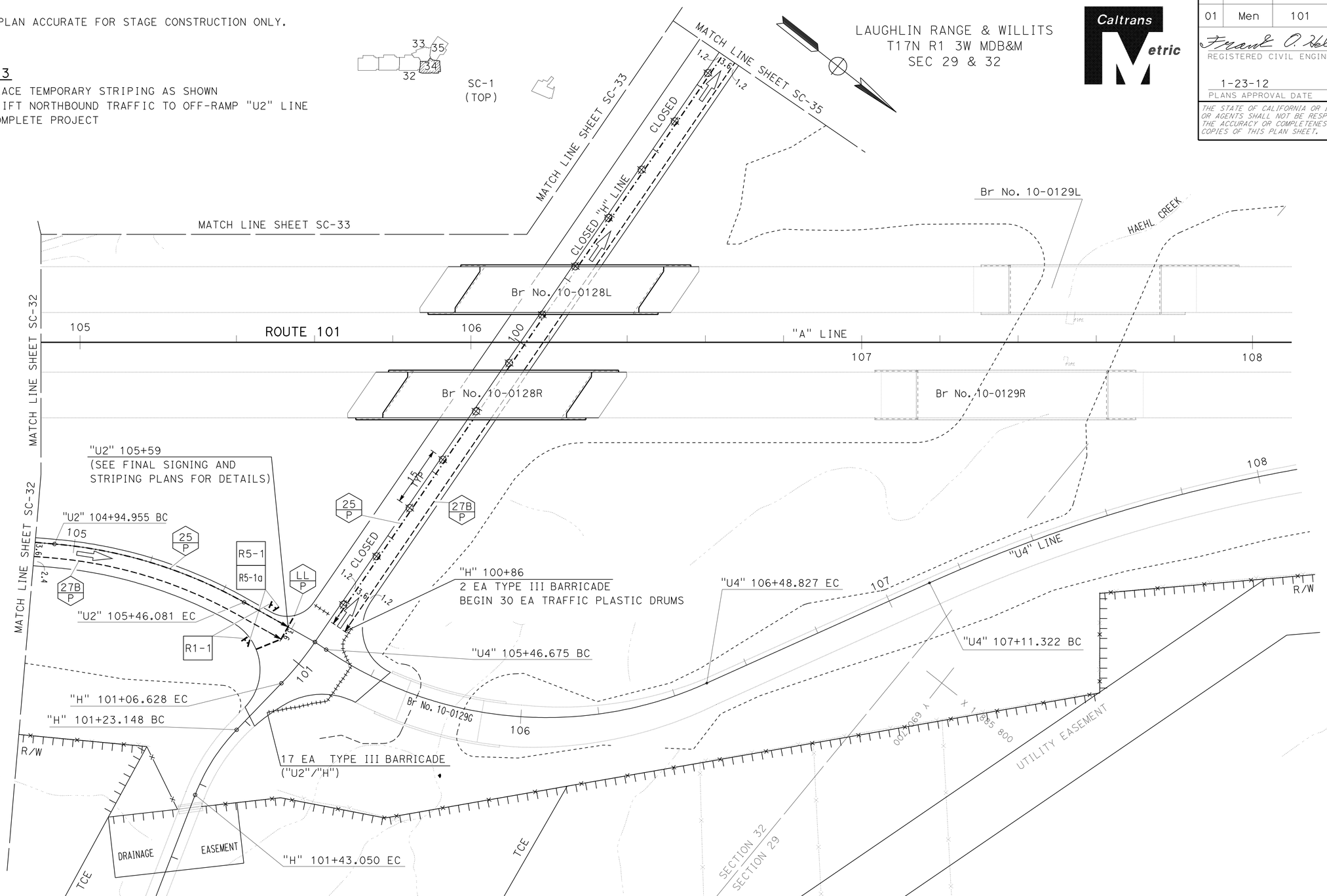
Caltrans Metric

LAUGHLIN RANGE & WILLITS
T17N R1 3W MDB&M
SEC 29 & 32

STAGE 3

(A) PLACE TEMPORARY STRIPING AS SHOWN
(B) SHIFT NORTHBOUND TRAFFIC TO OFF-RAMP "U2" LINE
(C) COMPLETE PROJECT



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 3

SCALE 1:500

SC-34

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
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REVISED BY
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LAST REVISION 04-12-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:42

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	454	939

Frank O. Helm 9-12-11
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1-23-12
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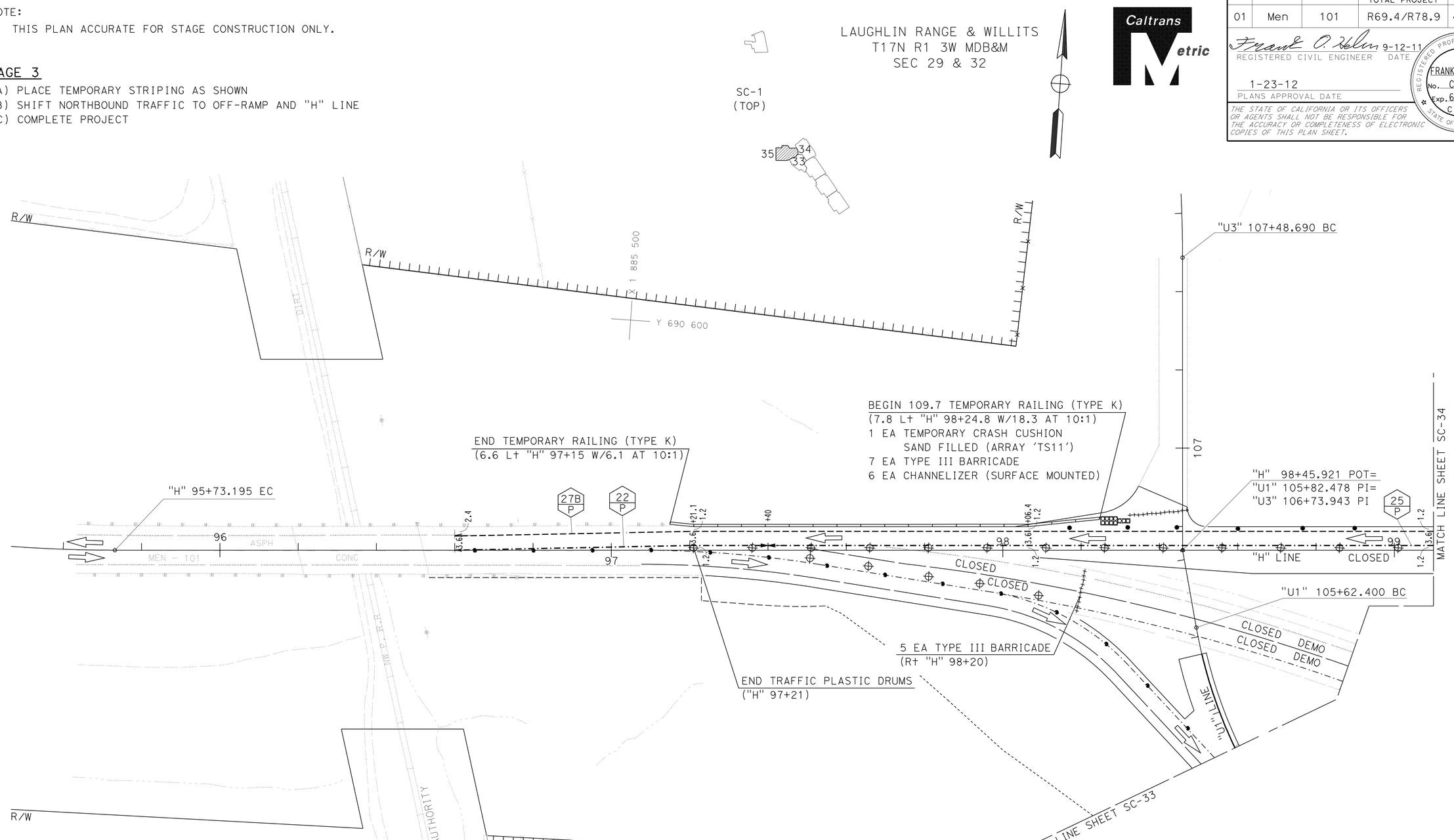
Caltrans Metric

NOTE:
1. THIS PLAN ACCURATE FOR STAGE CONSTRUCTION ONLY.

STAGE 3

(A) PLACE TEMPORARY STRIPING AS SHOWN
(B) SHIFT NORTHBOUND TRAFFIC TO OFF-RAMP AND "H" LINE
(C) COMPLETE PROJECT



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION
STAGE 3
SCALE 1:500

SC-35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
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DATE REVISED

LAST REVISION 04-01-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:42

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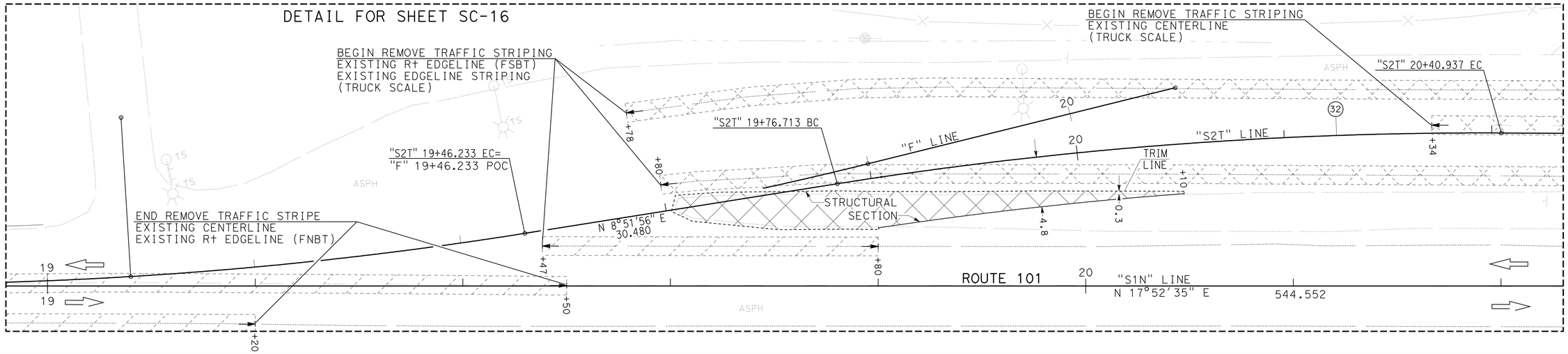
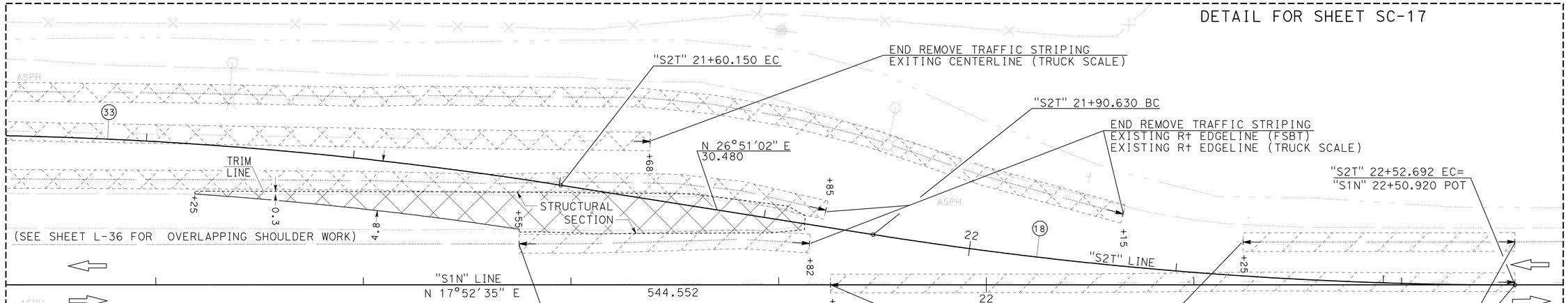
CURVE DATA				
No.	R	Δ	T	L
32	396.241	9°17'12"	32.182	64.224
33	396.241	8°41'54"	30.136	60.155
18	396.241	8°58'27"	31.095	62.062

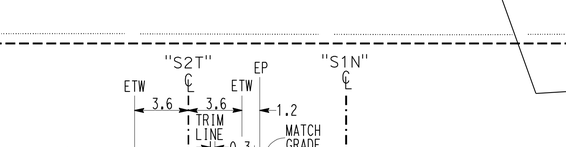
STAGE 1

"THESE ITEMS TO BE CONSTRUCTED PRIOR TO MAIN LINE CONFORM CONSTRUCTION"

(A) TRIM, CUT OUT AND REPLACE WITH STRUCTURAL TO MATCH EXISTING GRADE AS SHOWN, FOR STRUCTURAL SECTION USE 150 mm HMA / 450 mm AB (CLASS 2)
(B) REMOVE TRAFFIC STRIPING IN AREA SHOWN
(C) PLACE STAGE 2 SIGNING AND STRIPING (SEE SC-28 AND SC-29)







STRUCTURAL SECTIONS

1	150 mm HMA 450 mm AB (CLASS 2)

TYPICAL SECTION
NO SCALE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 1

SCALE 1:200

SC-36

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
REVISED BY | DATE REVISED
FRANK HELM
CALCULATED-DESIGNED BY | CHECKED BY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

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01	Men	101	R69.4/R78.9	456	939

Frank O. Helm 9-12-11
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1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRANK O. HELM No. C48317 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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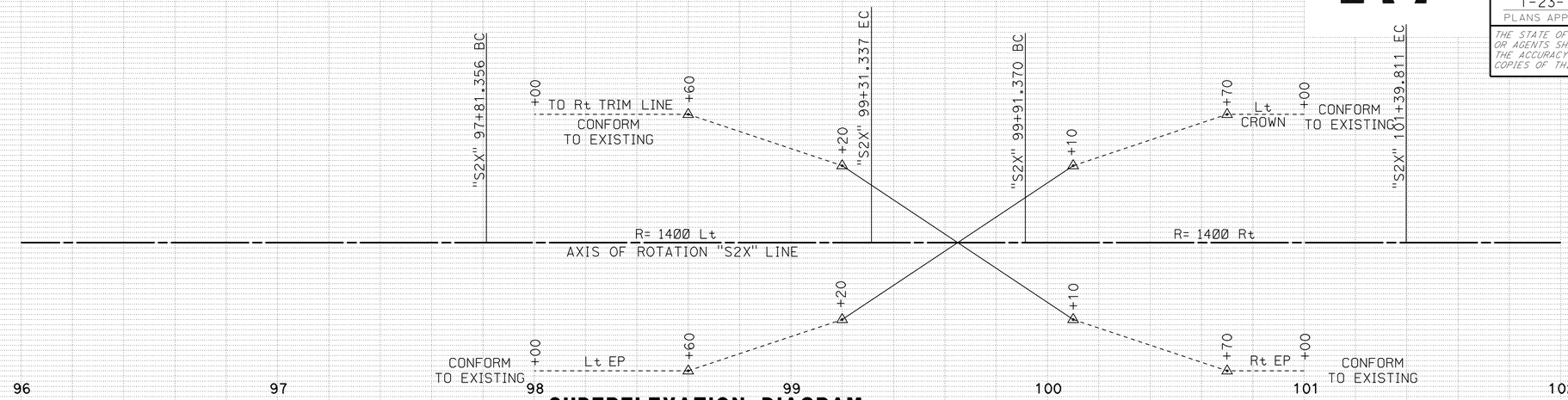
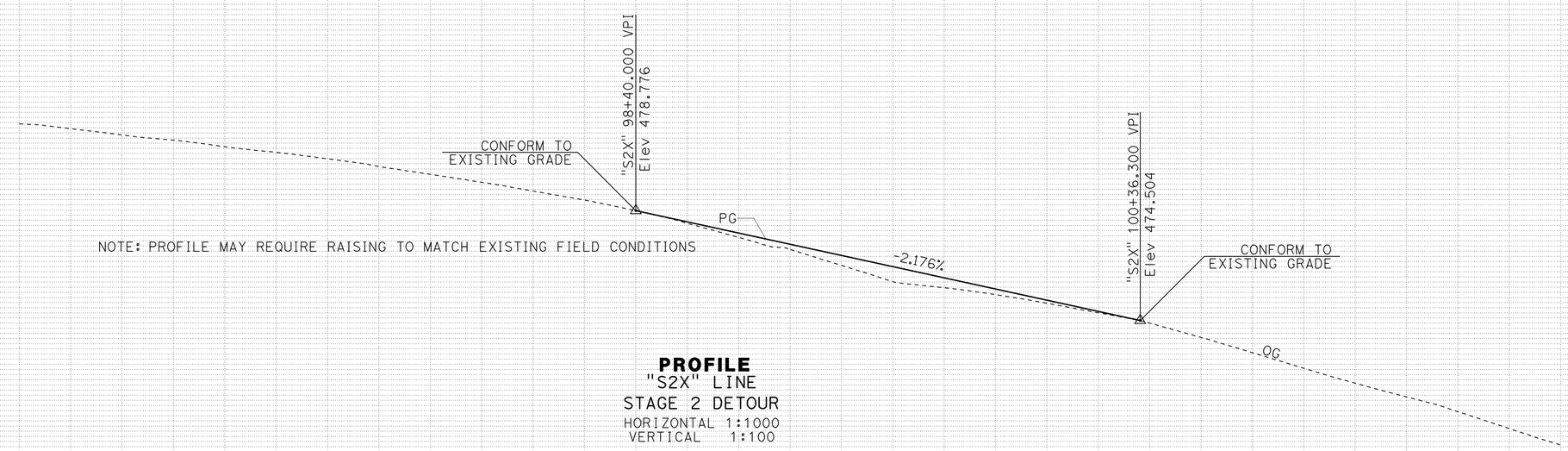
NOTES:
1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. ALL SUPERELEVATION VERTICAL CURVES ARE 30 m UNLESS OTHERWISE DENOTED.



SUPERELEVATION DIAGRAM
"S2X" LINE
STAGE 2 DETOUR
HORIZONTAL 1:1000



PROFILE
"S2X" LINE
STAGE 2 DETOUR
HORIZONTAL 1:1000
VERTICAL 1:100

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

STAGE CONSTRUCTION STAGE 1

SC-37

Station	96	97	98	99	100	101	102
m^3 Exc							
m^3 Emb							

REVISED BY | DATE REVISED
FRANK HELM
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 09-06-11
DATE PLOTTED => 28-JAN-2012
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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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Frank O. Helm 9-12-11
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1-23-12
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ADDITIONAL STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
E	C31A<CA> W16-2	1219 x 1219 762 x 610	SHOULDER CLOSED 500 FEET	1-140 x 140	
F	W11-1 W16-1	914 x 914 610 x 762	BICYCLE SYMBOL SIGN SHARE THE ROAD	1-140 x 140	10
G	R11-2	1219 x 762	ROAD CLOSED	MOUNTED ON BARRICADE	
H	W21-5bR(1000)	1219 x 1219	RIGHT SHOULDER CLOSED 1000 FEET	1-140 x 140	
I	W21-5bR(500)	1219 x 1219	RIGHT SHOULDER CLOSED 500 FEET	1-140 x 140	6
J	C30A<CA> W7-3a(1/2)	1219 x 1219 610 x 457	SHOULDER CLOSED NEXT 1/2 MILE	1-140 x 140	2
K	W20-2	1219 x 1219	DETOUR AHEAD	1-140 x 140	
L	W1-4L W13-1(40)	1219 x 1219 762 x 762	REVERSE CURVE SYMBOL SIGN 40 MPH	1-140 x 140	
M	W1-4R W13-1(35)	1219 x 1219 762 x 762	REVERSE CURVE SYMBOL SIGN 35 MPH	1-140 x 140	
N	R3-1	610 x 610	NO RIGHT TURN SYMBOL SIGN	1-89 x 89	

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
2. ALL "W" SERIES SIGNS SHALL BE ORANGE RETROREFLECTIVE BACKGROUND WITH BLACK BORDER AND LEGEND.
3. EXACT SIGN LOCATIONS AND QUANTITIES TO BE DETERMINED BY THE ENGINEER.
4. ALL SIGN CODES ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA <CA> SIGN CODES.
5. FOR ADDITIONAL STATIONARY MOUNTED CONSTRUCTION AREA SIGNS, SEE CONSTRUCTION AREA SIGN PLAN.

TEMPORARY PAVEMENT MARKER

STAGE No.	DETAIL No.	RETROREFLECTIVE TYPE D (EA)	RETROREFLECTIVE TYPE H (EA)
1	-	-	-
2	22,25,25A	392	105
3	22,25	24	76
SUBTOTAL:		416	181
TOTAL:		597	

TEMPORARY CRASH CUSHION MODULE

SHEET	STAGE No.	ARRAY	QUANTITY (EA)
SC-7	1	TS11	11
SC-7	1	TS11	11
SC-8	1	TS11	11
SC-8	1	TS11	11
SC-9	1	TS11	11
SC-9	1	TS11	11
SC-12	1	TS14	14
SC-16	1	TS14	14
		TOTAL:	94

TRAFFIC PLASTIC DRUM

SHEET	STAGE No.	QUANTITY (EA)
SC-18,20,21,23	2	45
SC-23	2	5
SC-24,25,26	2	47
SC-28,29	2	26
SC-28	2	5
SC-29	2	3
SC-30,31,32	3	28
SC-31	3	7
SC-34,35	3	30
	TOTAL:	196

TEMPORARY TRAFFIC STRIPE (PAINT)

SHEETS	STAGE No.	DETAIL NUMBER 22 (m)	25 (m)	25A (m)	27B (m)	LL (m)	STAGE TOTAL (m)
SC-3,4,5	1	-	-	-	698	-	
							698
SC-18,19,20,21,23	2	-	-	-	1259	-	
SC-18,19	2	-	100	-	-	-	
SC-19,20	2	300	-	-	-	-	
SC-19	2	-	130	-	-	-	
SC-19,20,21,23	2	-	-	-	971	-	
SC-19,20	2	300	-	-	-	-	
SC-20,21,23	2	-	-	433	-	-	
SC-20,21,23	2	-	440	-	-	-	
SC-23	2	133	-	-	-	-	
SC-25,26	2	295	-	-	-	-	
SC-25,26	2	-	-	-	295	-	
SC-25,26	2	-	-	-	295	-	
SC-28,29	2	402	-	-	-	-	
SC-28,29	2	-	-	-	402	-	
SC-28,29	2	-	-	-	402	-	
							6157
SC-30,31,32,34	3	-	759	-	-	-	
SC-30,31,32,34	3	-	-	-	750	-	
SC-34	3	-	-	-	-	13	
SC-34,35	3	-	346	-	-	-	
SC-34,35	3	-	-	-	426	-	
SC-35	3	80	-	-	-	-	
							2374
						TOTAL:	9229

REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE

SHEETS	STAGE No.	DESCRIPTION	LENGTH (m)
SC-2,3	1	L+ EDGELINE FNBT	120
SC-6	1	CENTERLINE	80
SC-13,14	1	CENTERLINE	285
SC-16,17,36	1	CENTERLINE	161
		TOTAL:	646

TYPE III BARRICADE

SHEET	STAGE No.	QUANTITY (EA)
SC-23	2	2
SC-32	3	5
SC-34	3	20
SC-35	3	12
	TOTAL:	39

REMOVE TRAFFIC STRIPE

SHEETS	STAGE No.	DESCRIPTION	LENGTH (m)
SC-2,3	1	LANELINE FNBT	280
"	1	R+ EDGELINE FNBT	260
SC-3,4	1	R+ EDGELINE FSBT	289
SC-5	1	R+ EDGELINE FSBT	35
SC-6	1	R+ EDGELINE FSBT	100
SC-13,14	1	R+ EDGELINE FSBT	285
SC-16,17,36	1	R+ EDGELINE FNBT	65
"	1	R+ EDGELINE FSBT	33
"	1	R+ EDGELINE FSBT	27
"	1	R+ EDGELINE FNBT	30
"	1	R+ EDGELINE FSBT	25
		TRUCK SCALE	
"	1	R+ EDGELINE	190
"	1	L+ EDGELINE	235
"	1	CENTERLINE	34
SC-19	2	LANELINE FNBT	110
"	2	R+ EDGELINE FNBT	55
SC-23	2	R+ EDGELINE FNBT	90
		TOTAL:	2143

TEMPORARY RAILING (TYPE K)

SHEET	STAGE No.	QUANTITY (m)
SC-3,4,5,6	1	878.0
SC-7	1	73.2
SC-7	1	73.2
SC-8	1	79.3
SC-8	1	54.9
SC-8	1	48.8
SC-9	1	42.7
SC-9	1	48.8
SC-10	1	24.4
SC-12,13,14	1	646.2
SC-16,17	1	298.7
SC-18,19	2	207.3
SC-28,29	2	341.4
SC-35	3	109.7
	TOTAL:	2926.6

TEMPORARY PAVEMENT MARKING (PAINT)

SHEETS	STAGE No.	EA	DESCRIPTION	AREA (m2)
SC-18	2	3	TYPE VI ARROW	12
SC-32	3	1	"STOP"	2
SC-32	3	1	"AHEAD"	3
			TOTAL:	17

CHANNELIZER (SURFACE MOUNTED)

SHEET	STAGE No.	QUANTITY (EA)
SC-12	1	6
SC-16SC-24,25,26	1	6
SC-18,19	2	6
SC-21,22,23	2	17
SC 35	3	6
	TOTAL:	41

STAGE CONSTRUCTION AND TRAFFIC HANDLING QUANTITIES

SCQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: FRANK HELM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 08-29-11
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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	458	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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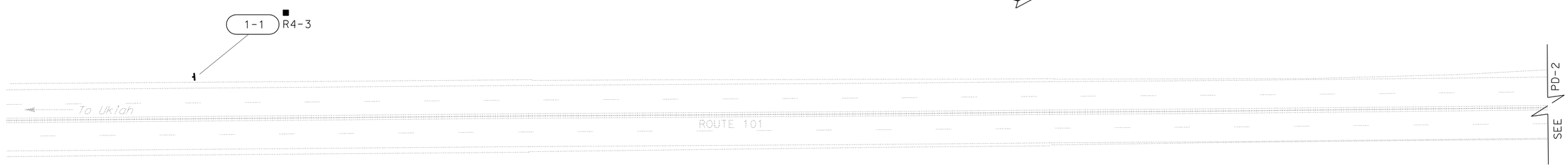
LEGEND

	LIMIT OF STRIPING PATTERN		TYPE III ARROW
	CHANGE IN STRIPING PATTERN	S	"STOP" PAVEMENT MARKING
No.	PAVEMENT DELINEATION DETAIL NUMBER	Y	"YIELD" PAVEMENT MARKING
LL	LIMIT LINE	A	"AHEAD" PAVEMENT MARKING
		Sht-No.	ROADSIDE SIGN NUMBER
IXW	INTERNATIONAL CROSSWALK	No.	OVERHEAD SIGN NUMBER
	DELINEATOR (CLASS 1) OR OBJECT MARKER	<CA>	CALIFORNIA SIGN CODE
	CONCRETE BARRIER DELINEATOR (400 mm)		SIGN - SINGLE POST
s=	DELINEATOR SPACING		SIGN - TWO POST
	HIGHWAY POST MARKER		SIGN - SSBM
	TYPE 1(7.32) ARROW		REMOVE ROADSIDE SIGN
	TYPE V ARROW	*	RELOCATE ROADSIDE SIGN
	TYPE VI ARROW		INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST)



NOTES:

1. ALL LANES SHALL BE 3.60 METERS WIDE UNLESS OTHERWISE SHOWN.
2. ALL DELINEATORS (CLASS 1) AND CONCRETE BARRIER DELINEATORS (400 mm) SHALL BE TYPE F UNLESS OTHERWISE SHOWN.
3. ALL DELINEATORS (CLASS 1) SHALL BE PLACED ON 60 METER CENTERS UNLESS OTHERWISE SHOWN.
4. ALL EXISTING SIGNS NOT SHOWN FOR REMOVAL OR RELOCATION SHALL REMAIN IN PLACE.
5. ALL SIGN PANEL DIMENSIONS ARE IN MILLIMETERS.
6. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
7. THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-1

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
FUNCTIONAL SUPERVISOR: SHAUN A. RICE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

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1-23-12
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REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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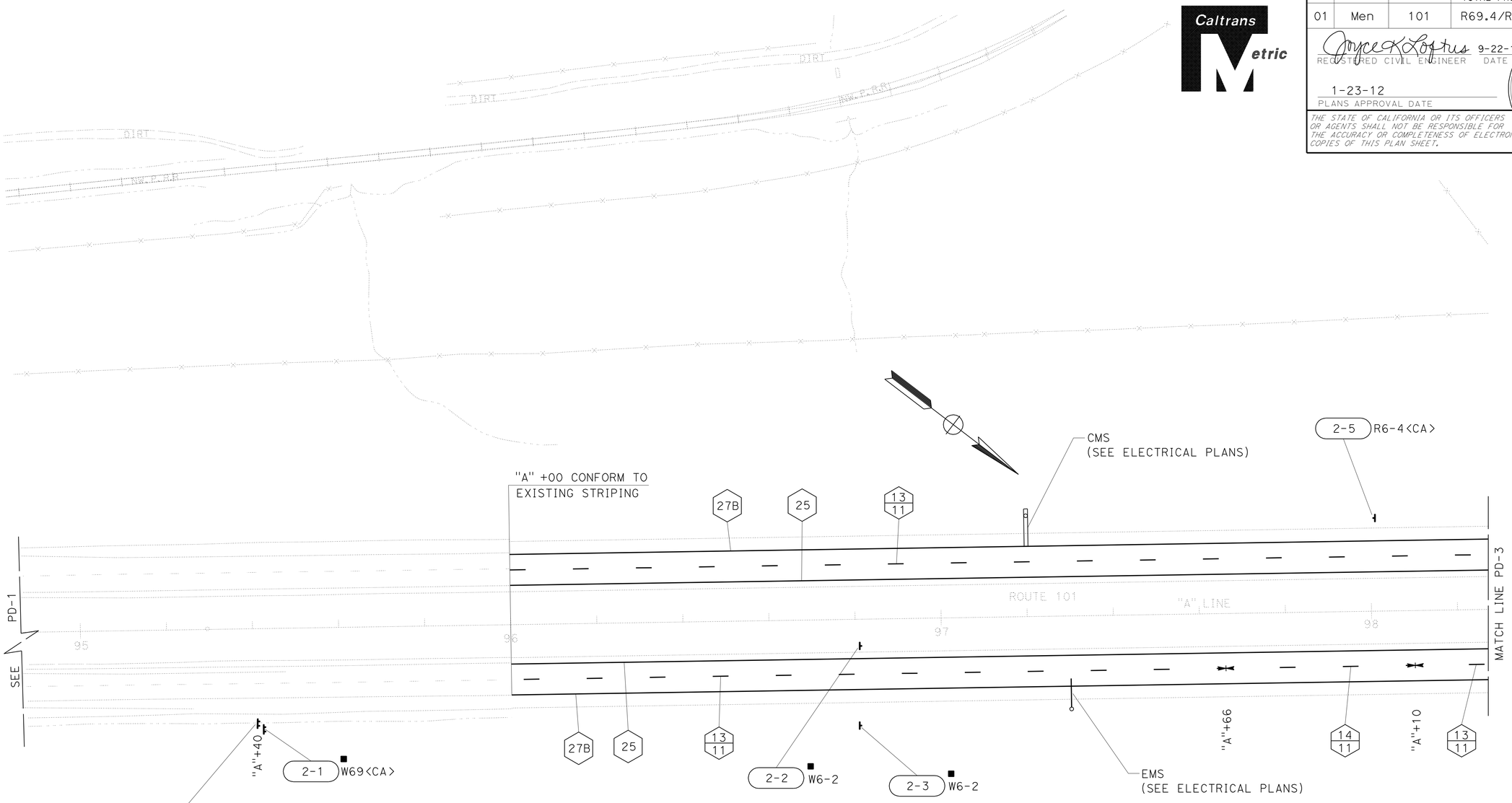

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PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-2

CALCULATED-DESIGNED BY	JOYCE LOFTUS
CHECKED BY	JEFF JEWETT
REVISED BY	
DATE REVISED	

FUNCTIONAL SUPERVISOR
SHAUN A. RICE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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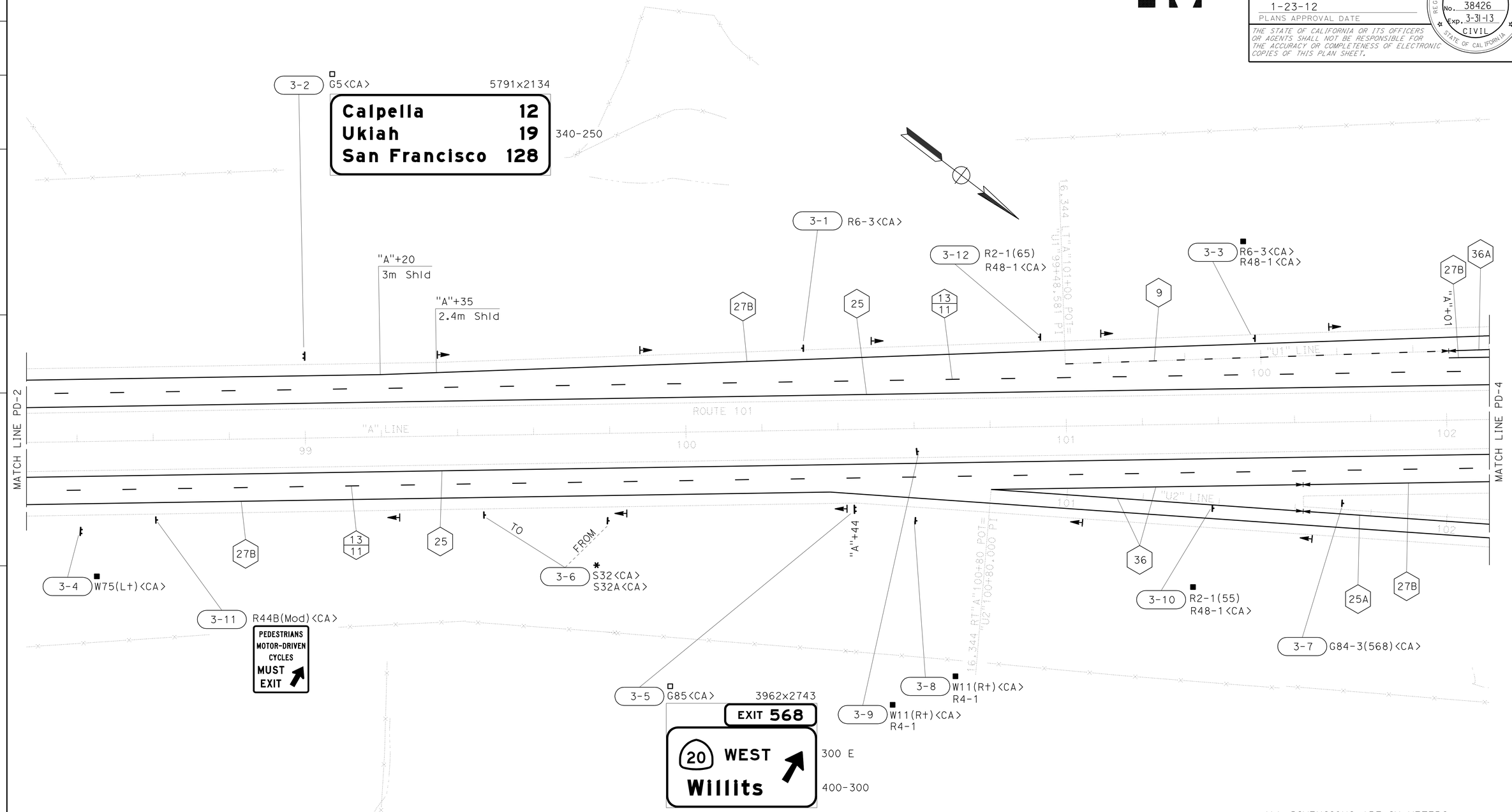

ALL DIMENSIONS ARE IN METERS
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PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-3

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 09-13-11
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1-23-12
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Joyce K. Loftus
No. 38426
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STATE OF CALIFORNIA

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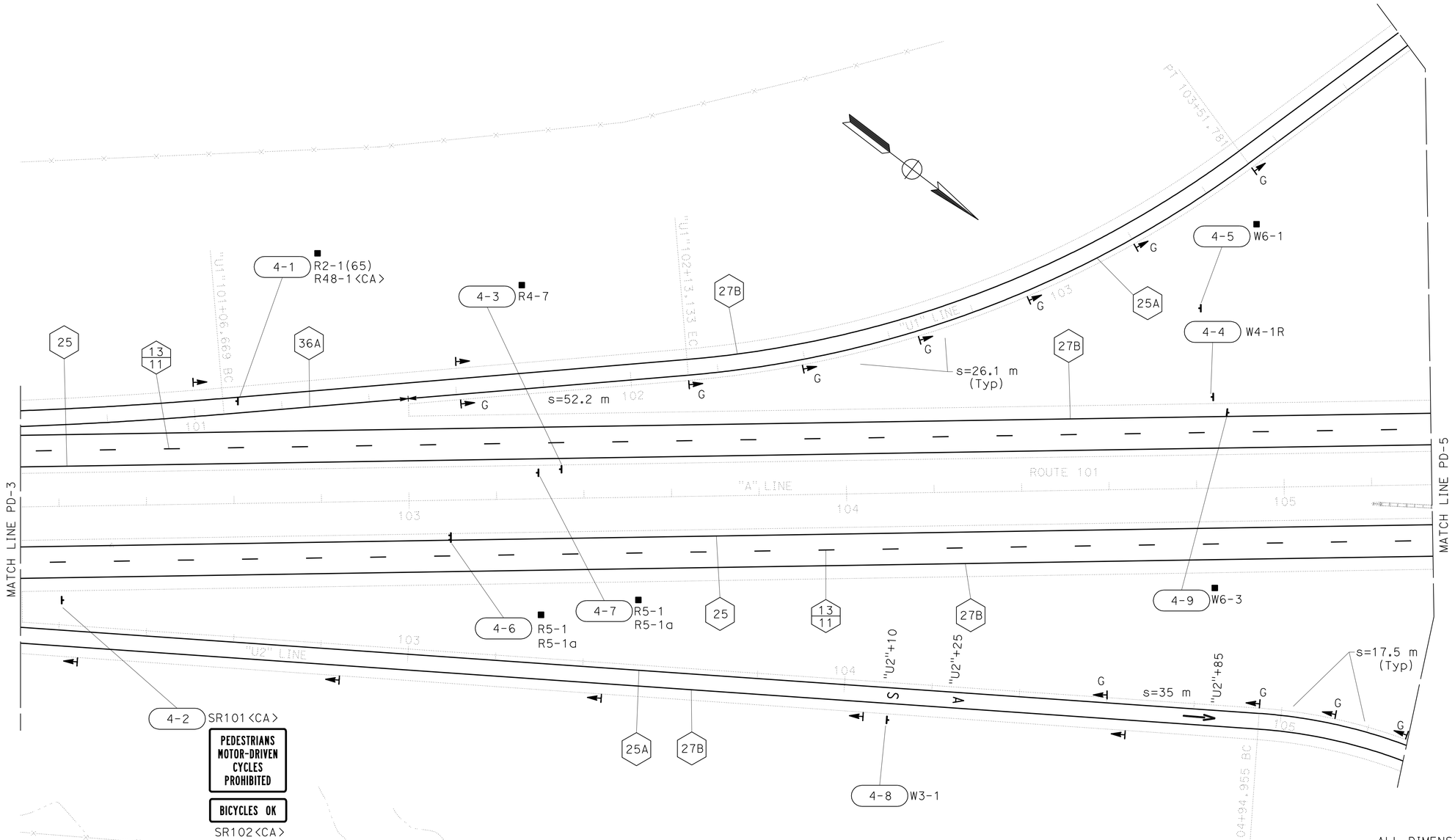

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

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PD-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 09-13-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	462	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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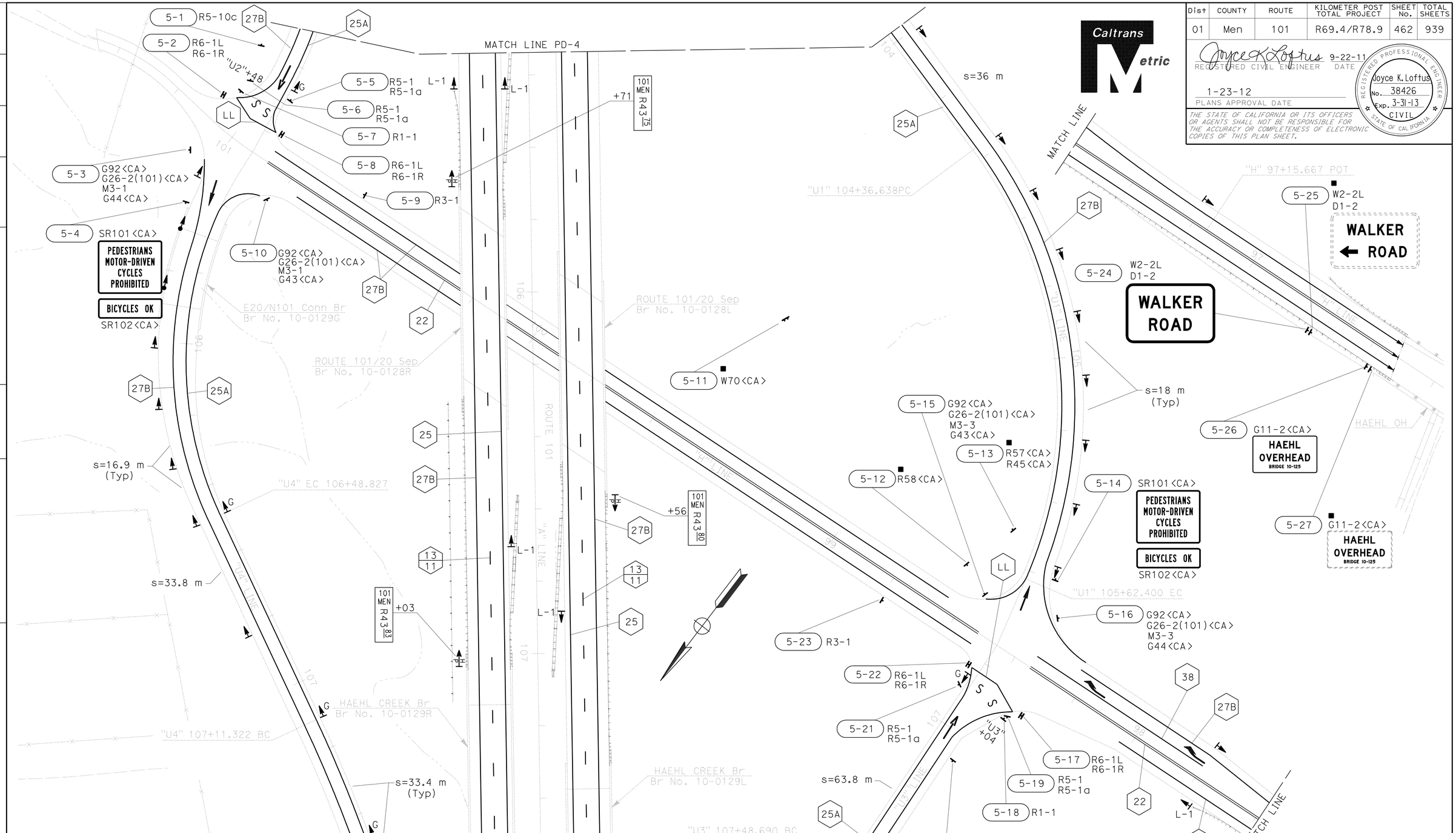
Caltrans Metric



PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-5

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY / DATE REVISED

LAST REVISION 09-13-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	463	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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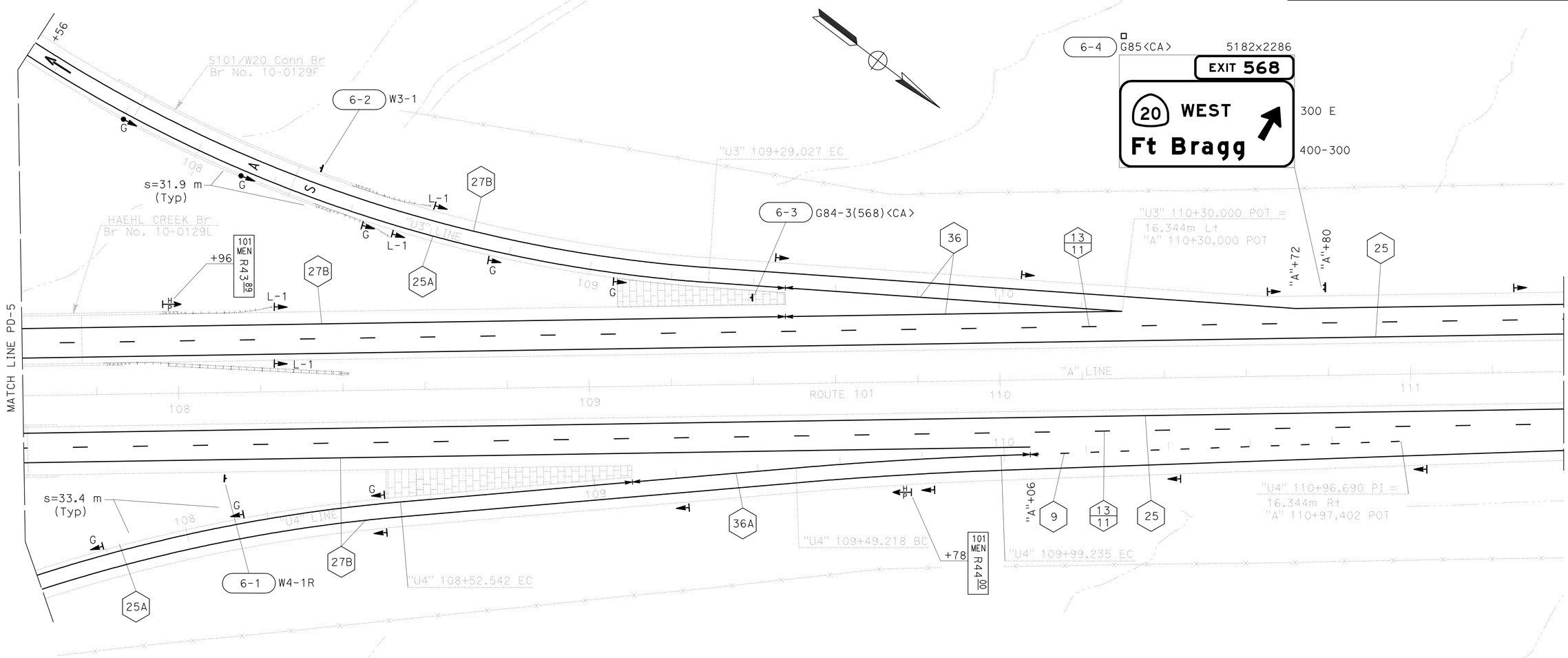
Caltrans Metric



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 09-13-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	464	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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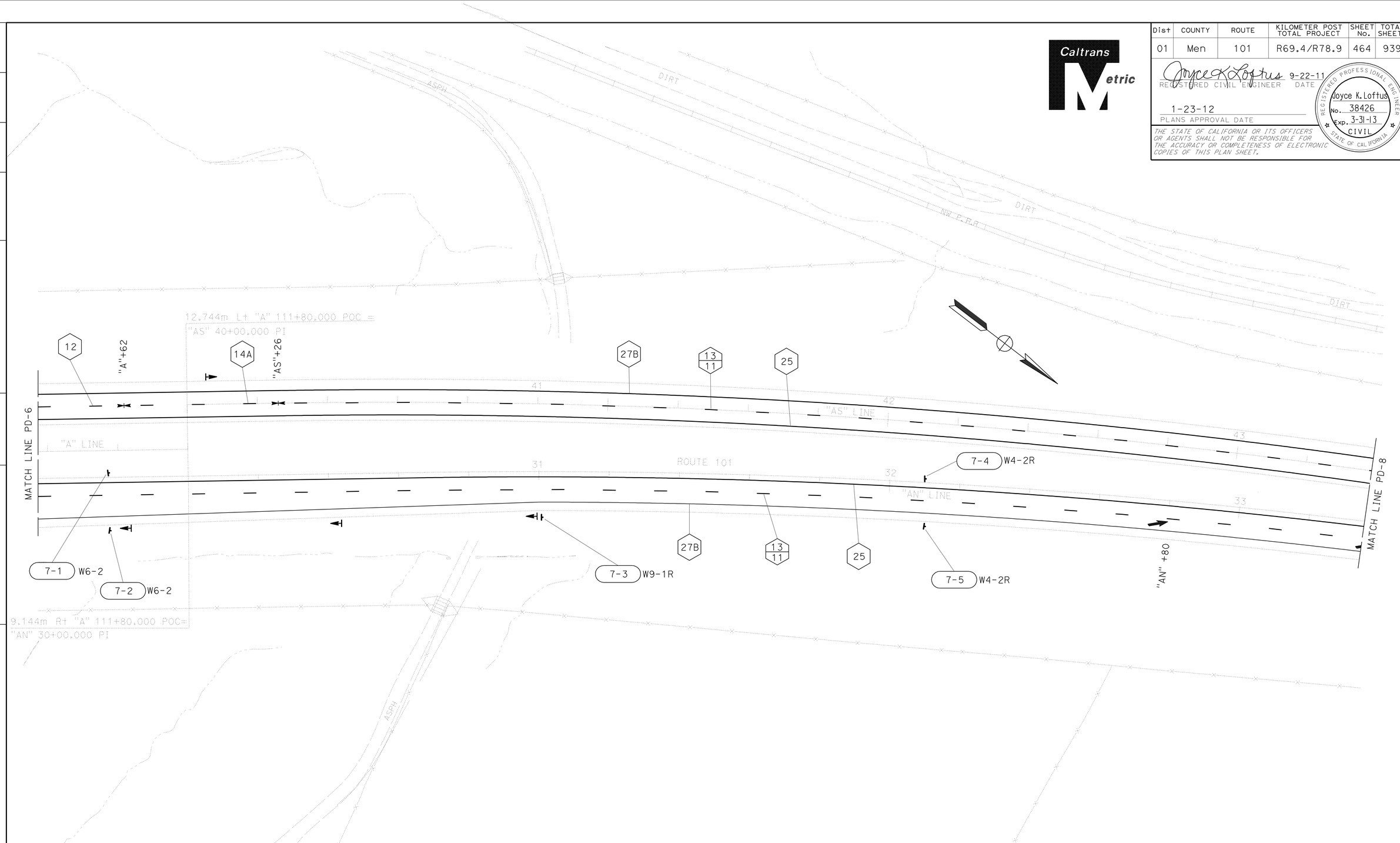
Caltrans Metric



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PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 09-13-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	465	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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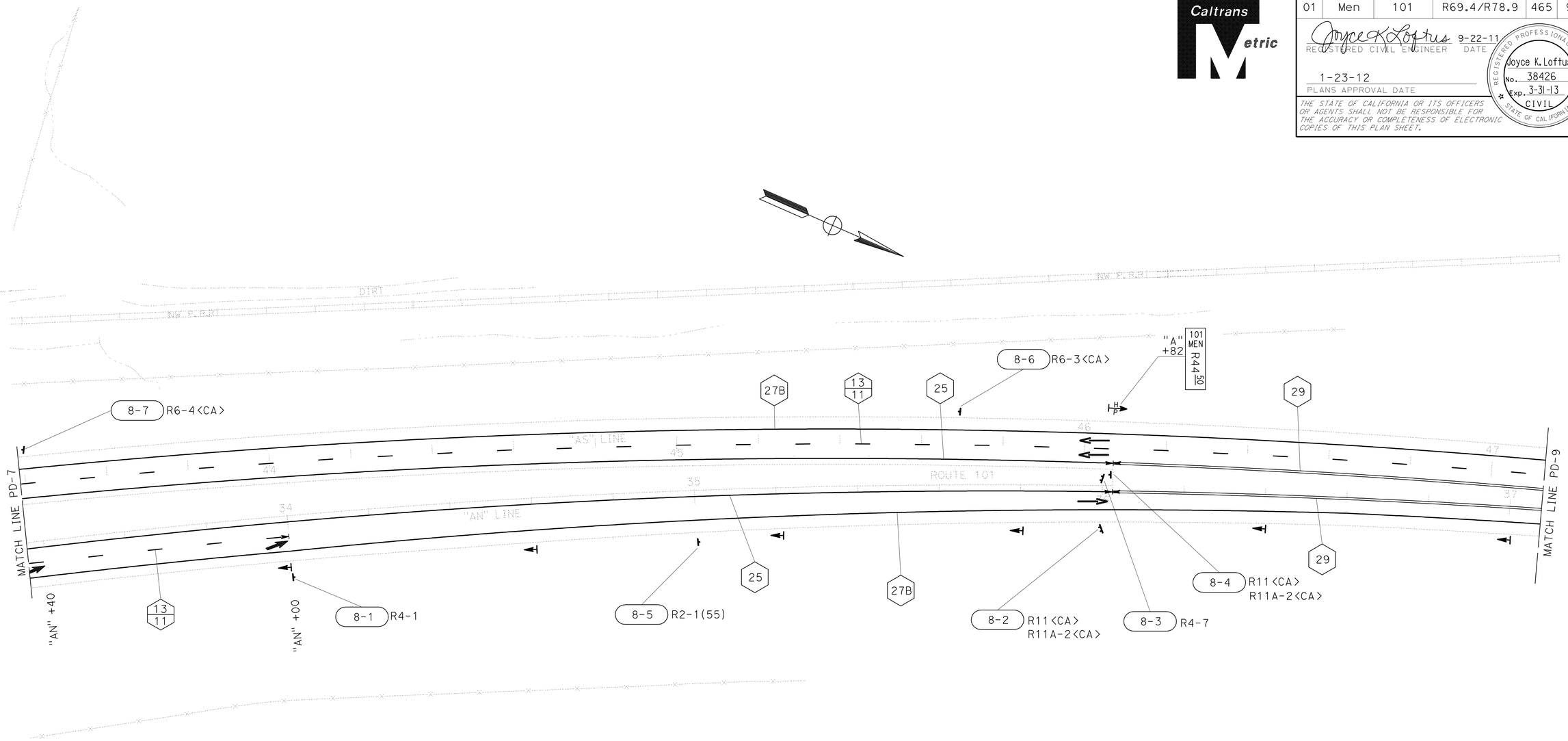

ALL DIMENSIONS ARE IN METERS
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PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-8

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT

FUNCTIONAL SUPERVISOR: SHAUN A. RICE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 09-13-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	466	939

Joyce K Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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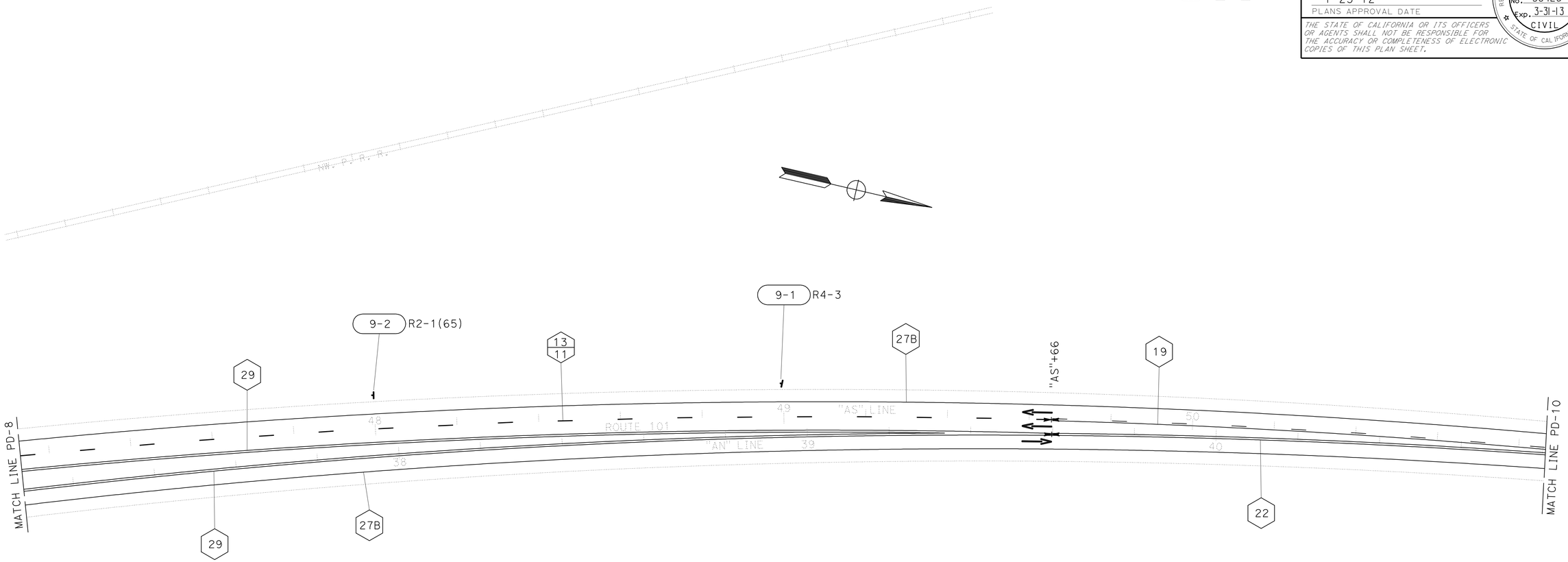

ALL DIMENSIONS ARE IN METERS
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PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-9

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 06-09-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	467	939

Joyce K Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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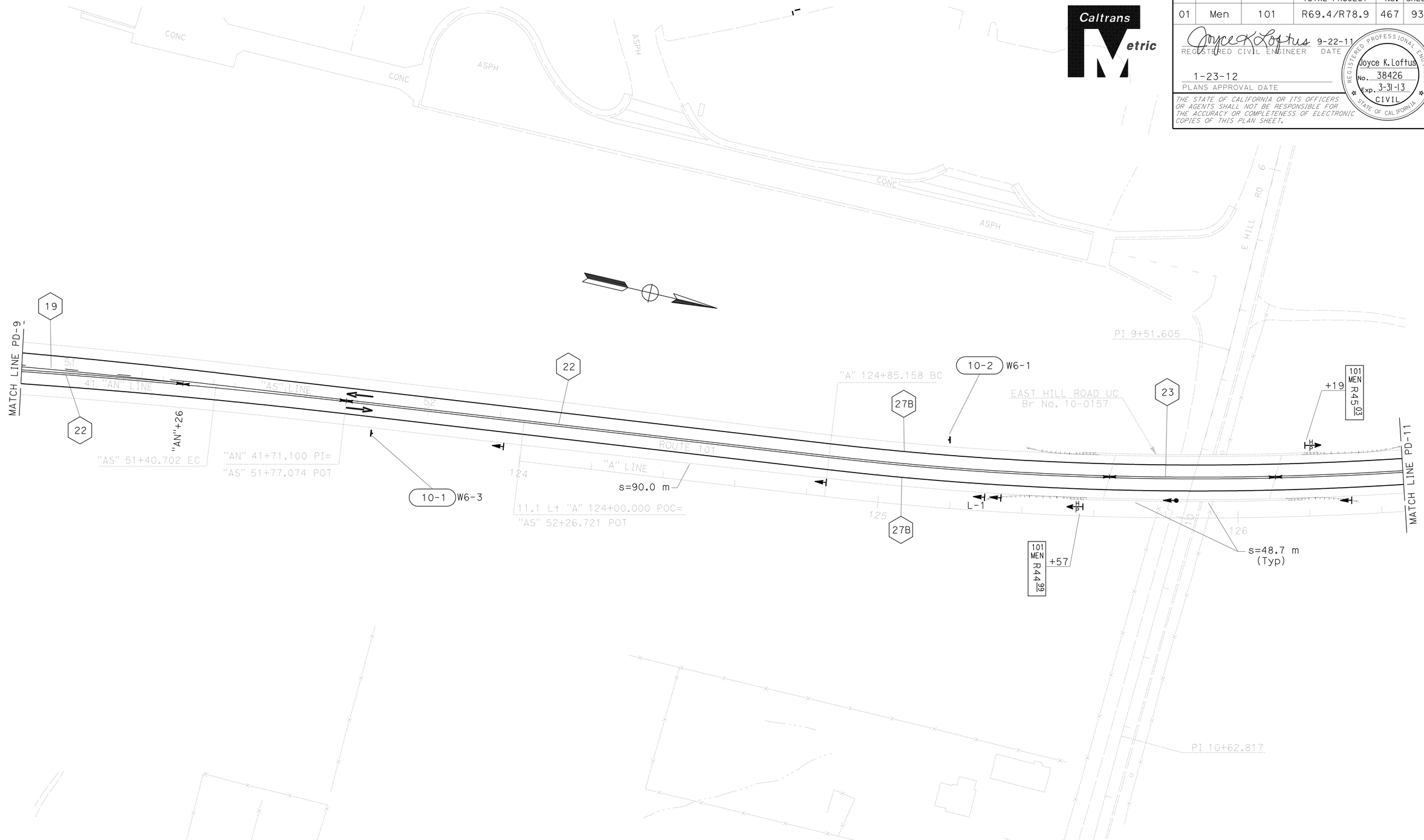

ALL DIMENSIONS ARE IN METERS
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PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

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PD-10

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT

FUNCTIONAL SUPERVISOR: SHAUN A. RICE

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LAST REVISION 09-16-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 08:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	468	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

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Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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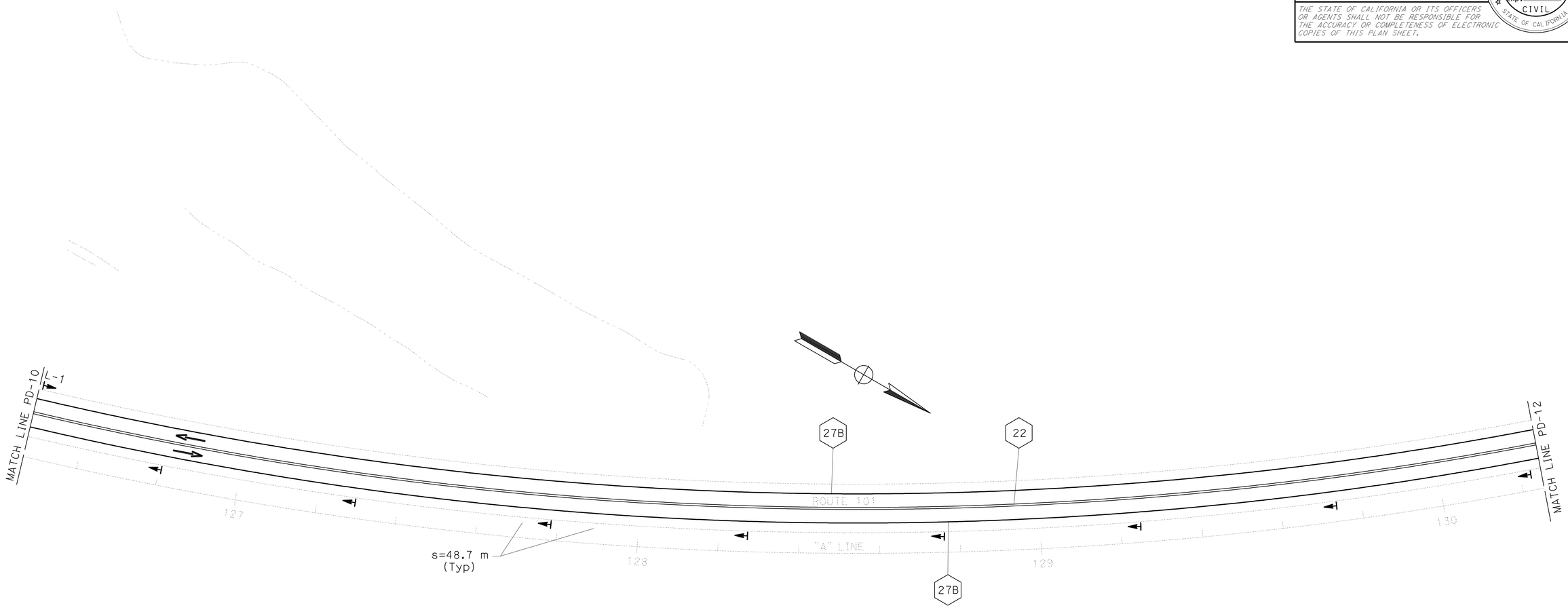

ALL DIMENSIONS ARE IN METERS
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PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-11

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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 09-13-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:43

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	469	939

Joyce K. Loftus 9-22-11
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1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
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STATE OF CALIFORNIA

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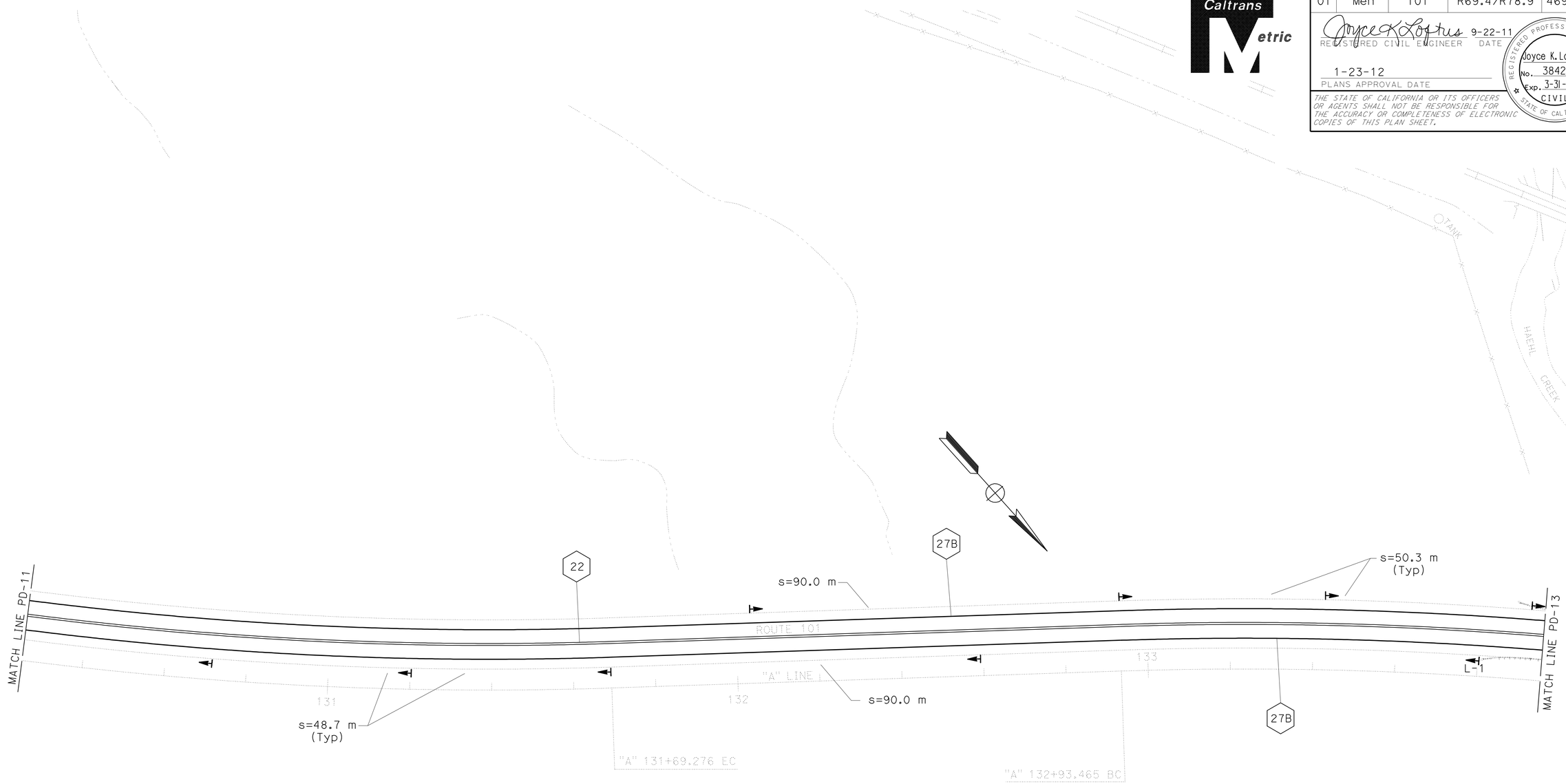

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PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-12

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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 04-23-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	470	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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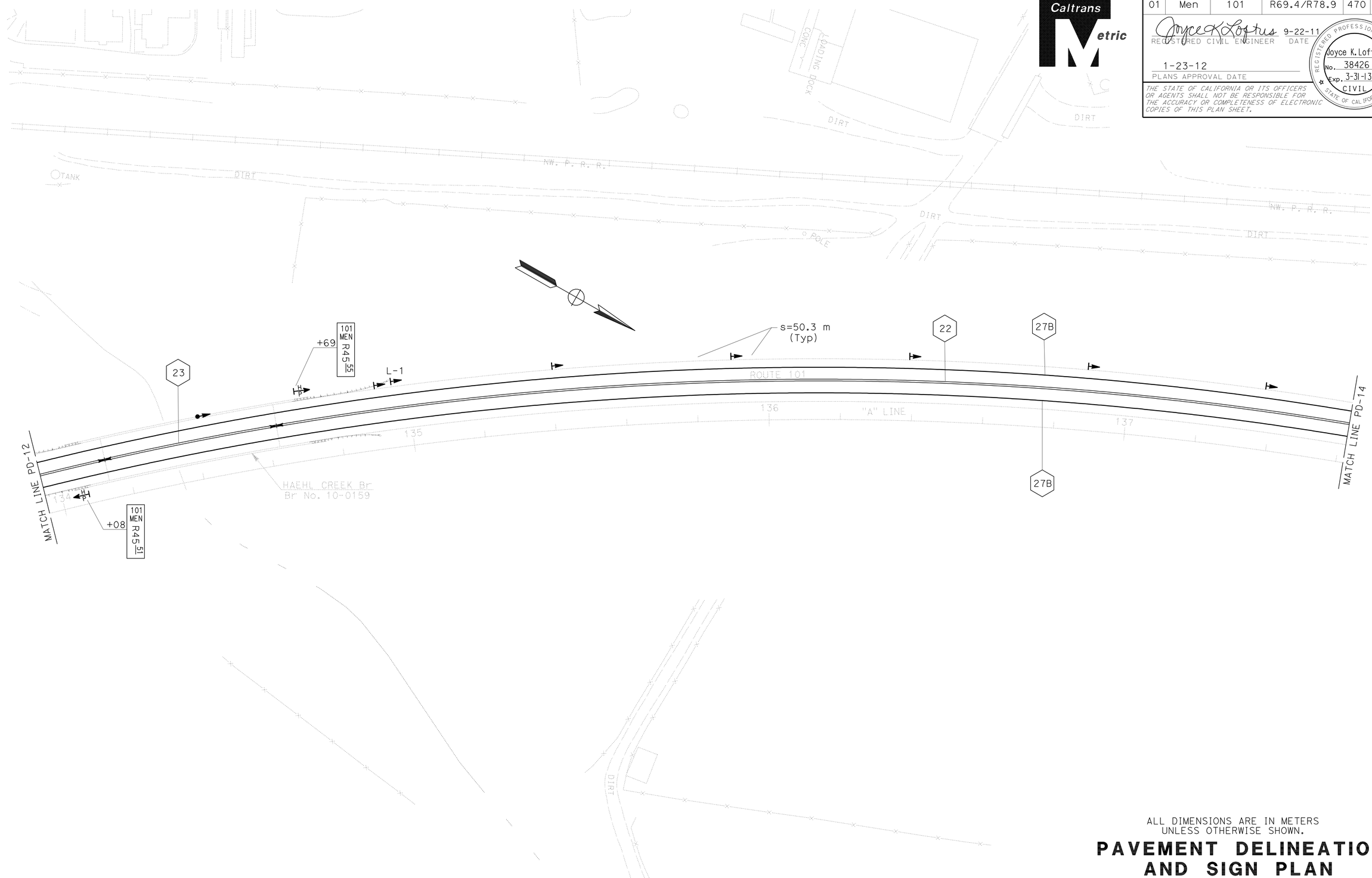

ALL DIMENSIONS ARE IN METERS
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PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

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PD-13

CALCULATED-DESIGNED BY	JOYCE LOFTUS
CHECKED BY	JEFF JEWETT
REVISED BY	
DATE REVISED	
FUNCTIONAL SUPERVISOR	SHAUN A. RICE

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LAST REVISION 06-07-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 0643

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	471	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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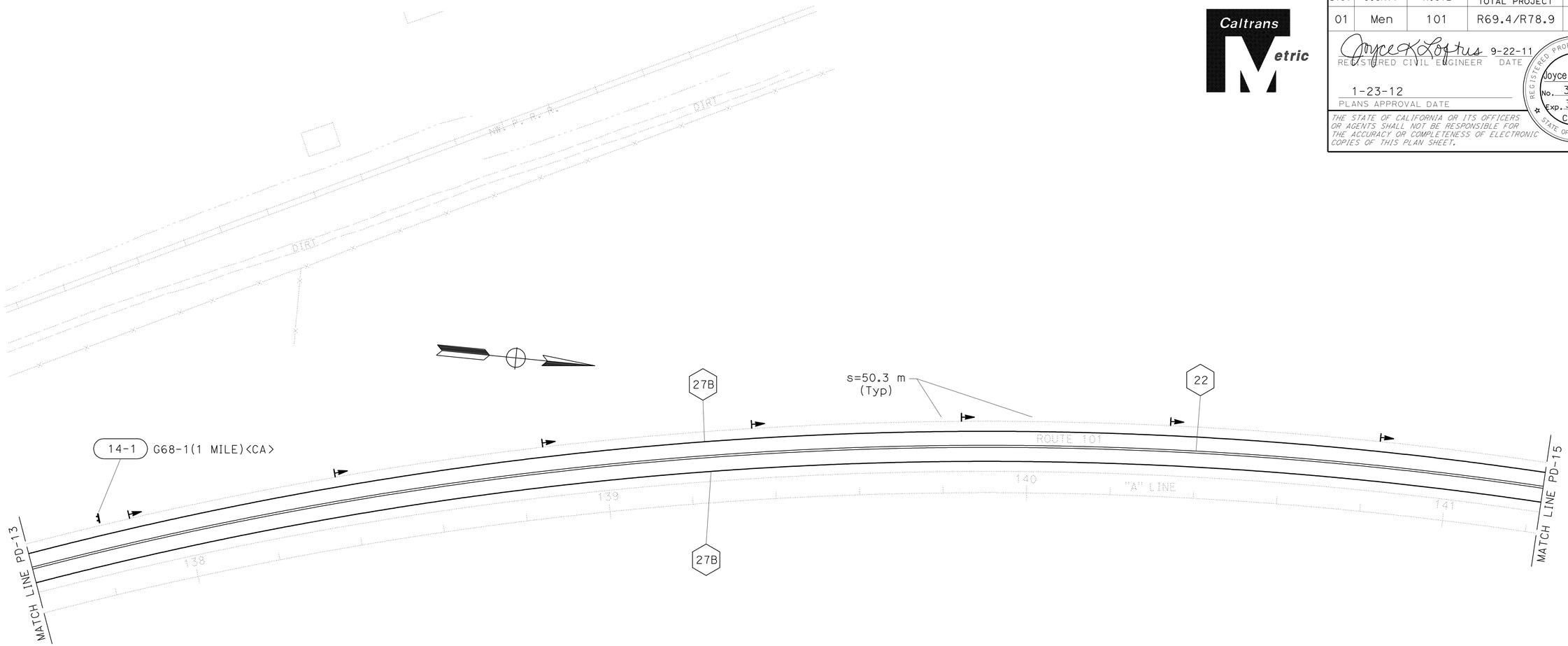
Caltrans Metric



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PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-14

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Caltrans
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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 04-23-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	472	939

Joyce K Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

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Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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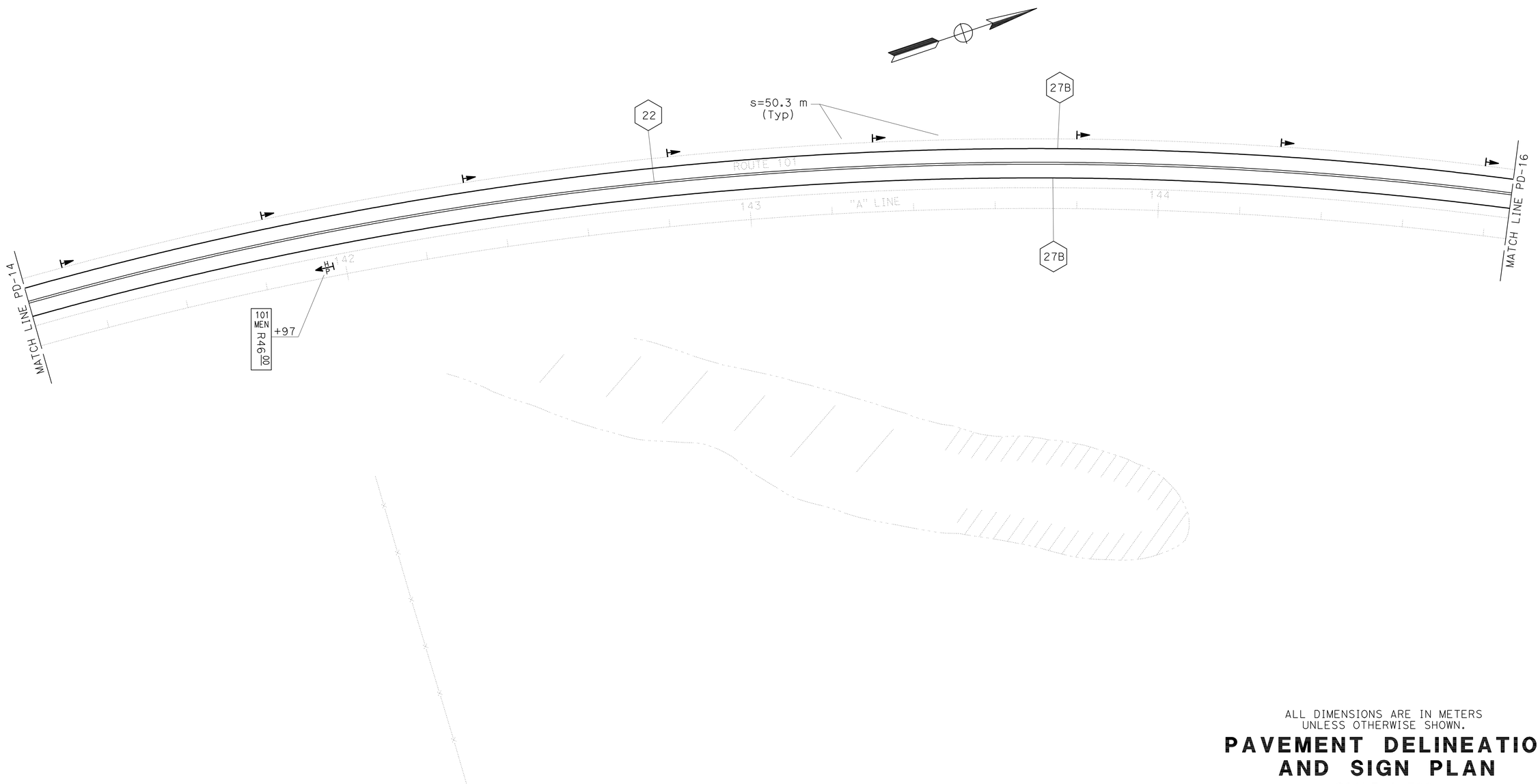
Caltrans Metric



ALL DIMENSIONS ARE IN METERS
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PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

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PD-15

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT

FUNCTIONAL SUPERVISOR: SHAUN A. RICE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 04-23-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	473	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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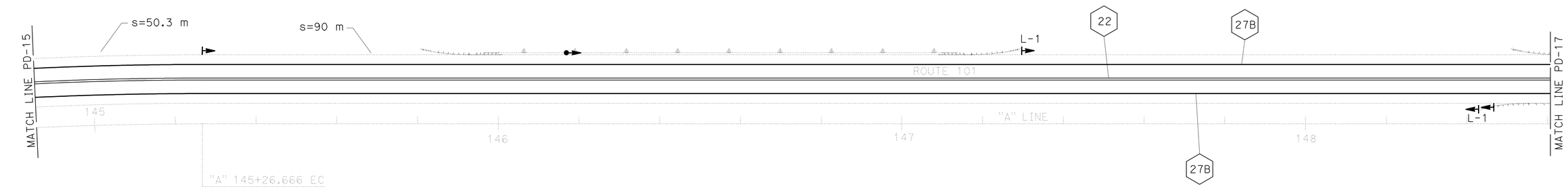

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-16

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: SHAUN A. RICE

CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT

REVISED BY
DATE REVISED

LAST REVISION 04-23-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	474	939

Joyce K Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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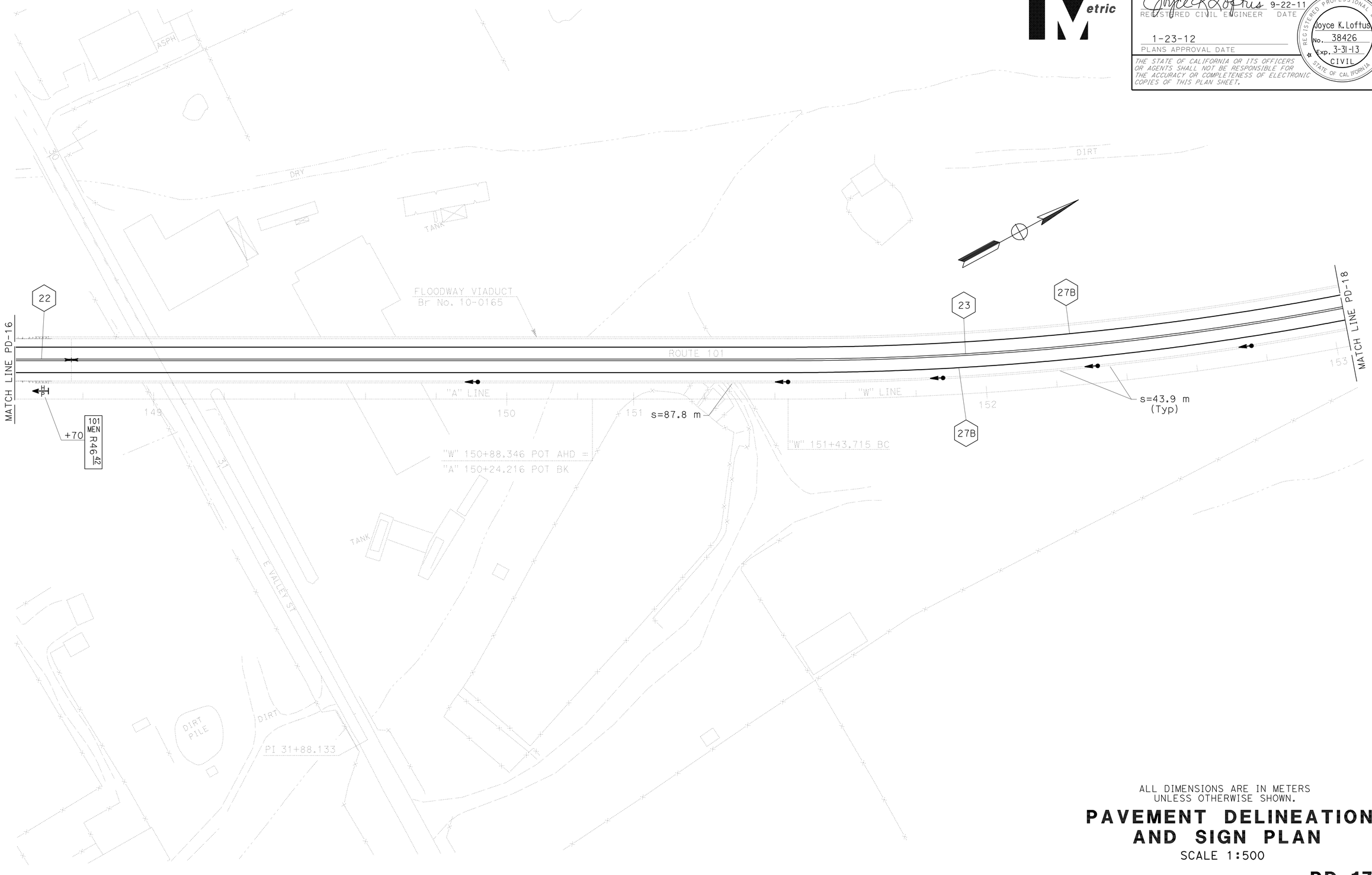
Caltrans Metric



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 06-07-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:44

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	475	939

Caltrans Metric

Joyce K Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-18

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: SHAUN A. RICE

CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT

REVISED BY | DATE REVISED

LAST REVISION 06-07-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:44

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	476	939

Joyce K Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
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CIVIL
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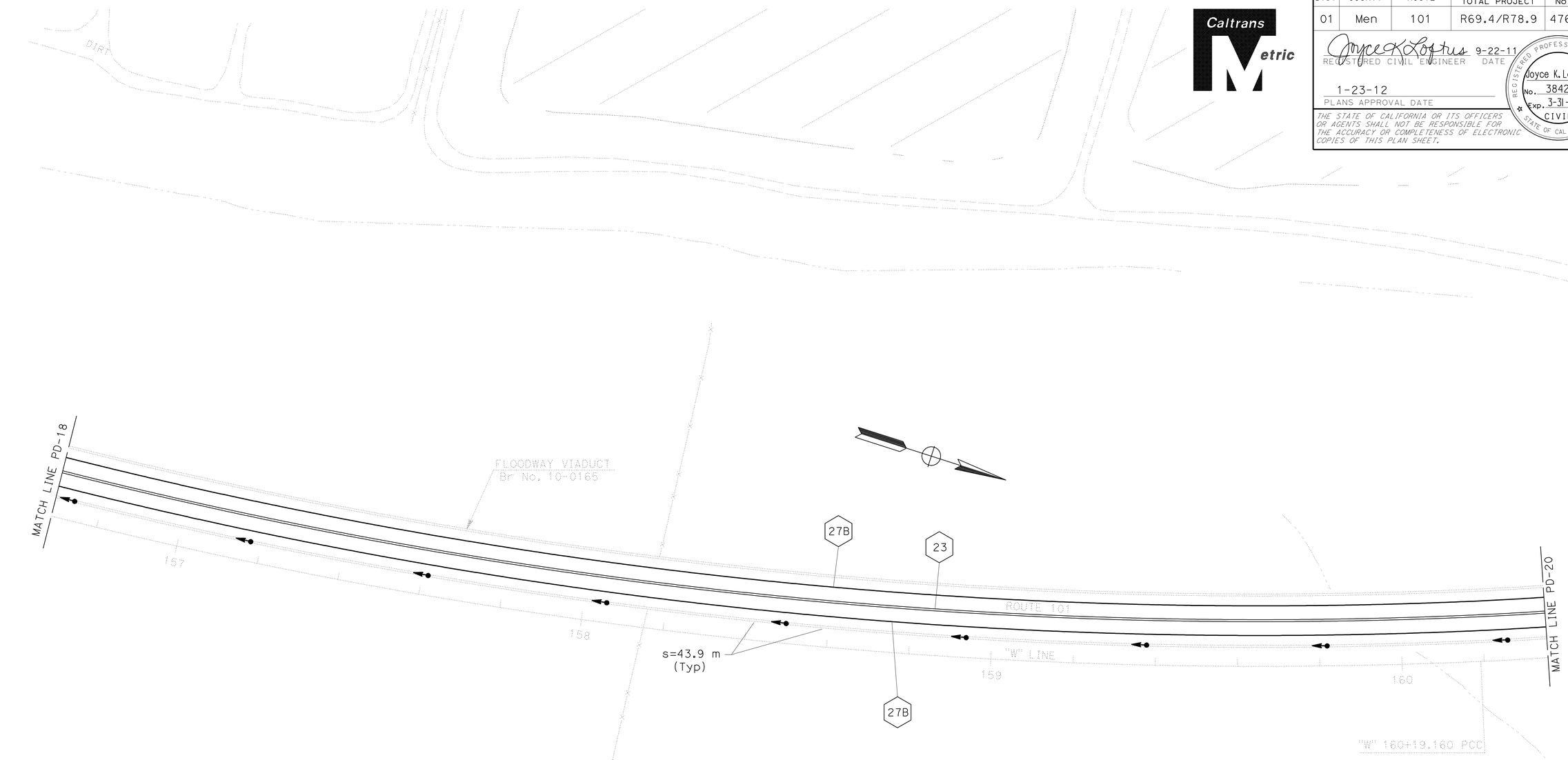
Caltrans Metric



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-19

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: SHAUN A. RICE

CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT

REVISED BY
DATE REVISED

LAST REVISION 06-07-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:44

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	477	939

Joyce K. Loftus 9-22-11
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1-23-12
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REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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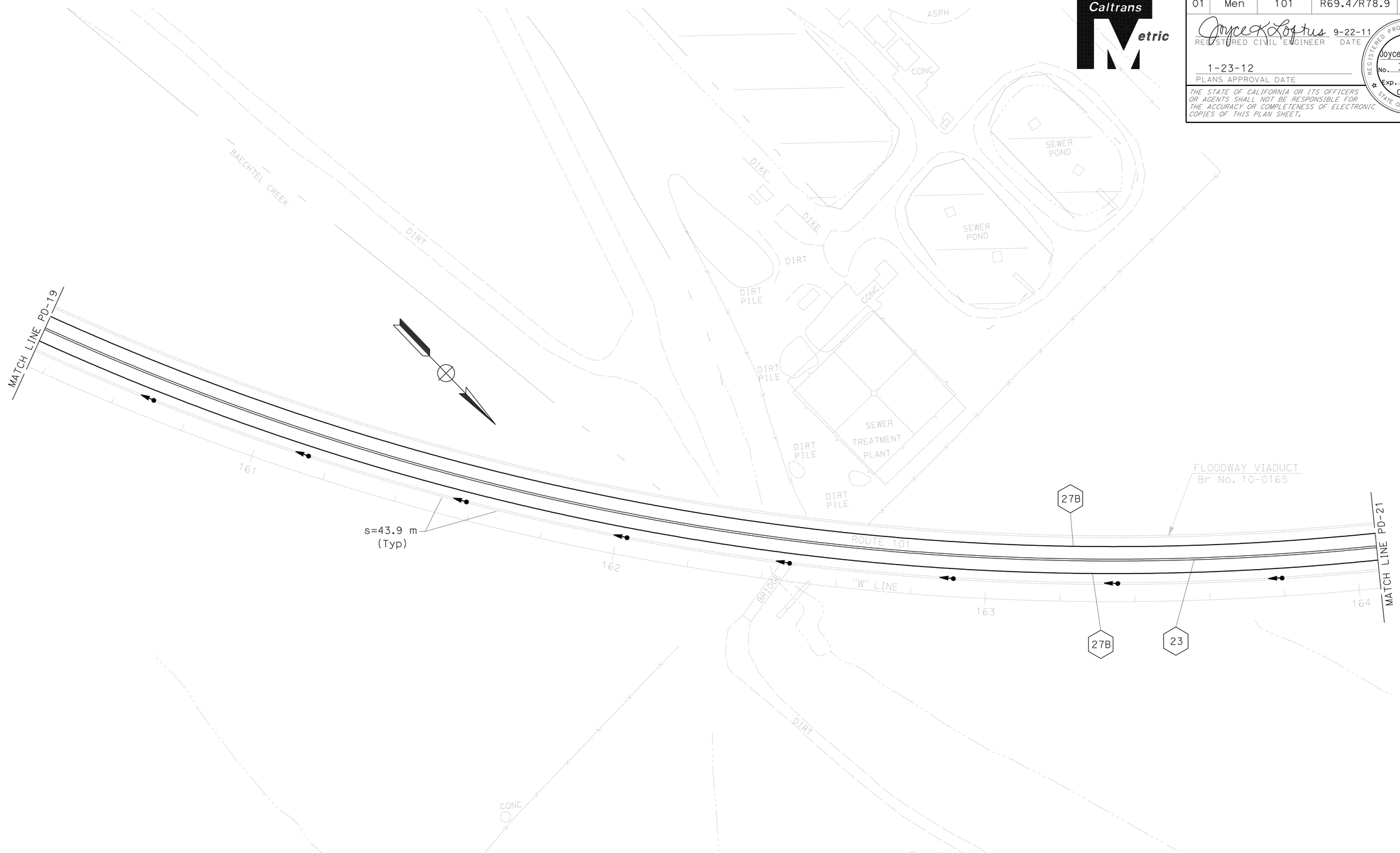
Caltrans Metric



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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TRAFFIC

FUNCTIONAL SUPERVISOR: SHAUN A. RICE

CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT

REVISED BY
DATE REVISED

LAST REVISION 06-07-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:44

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	478	939

Joyce K Loftus 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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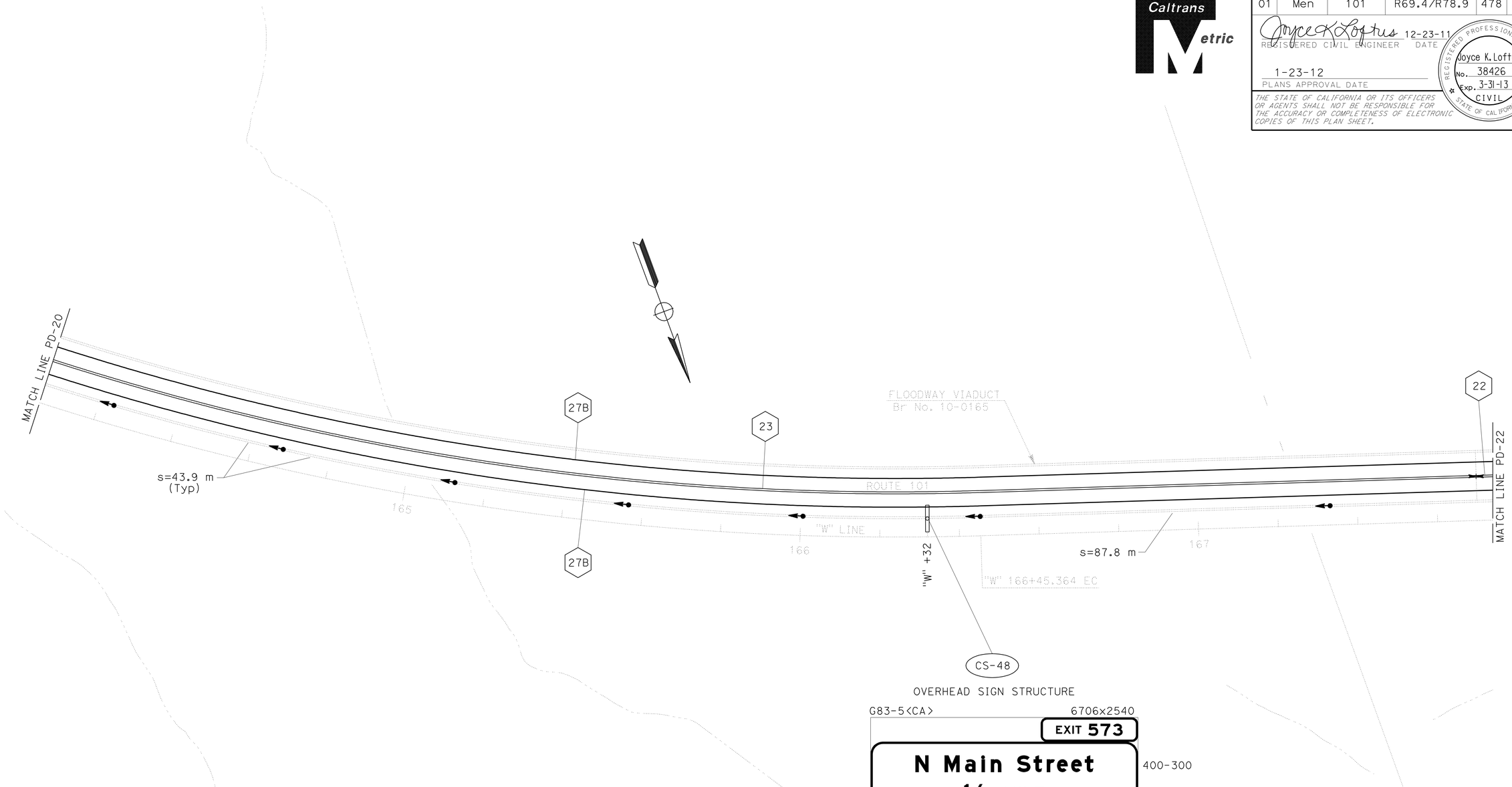
Caltrans Metric



PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-21

REVISED BY	JOYCE LOFTUS
DATE REVISED	JEFF JEWETT
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	SHAUN A. RICE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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LAST REVISION 12-22-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:44

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	479	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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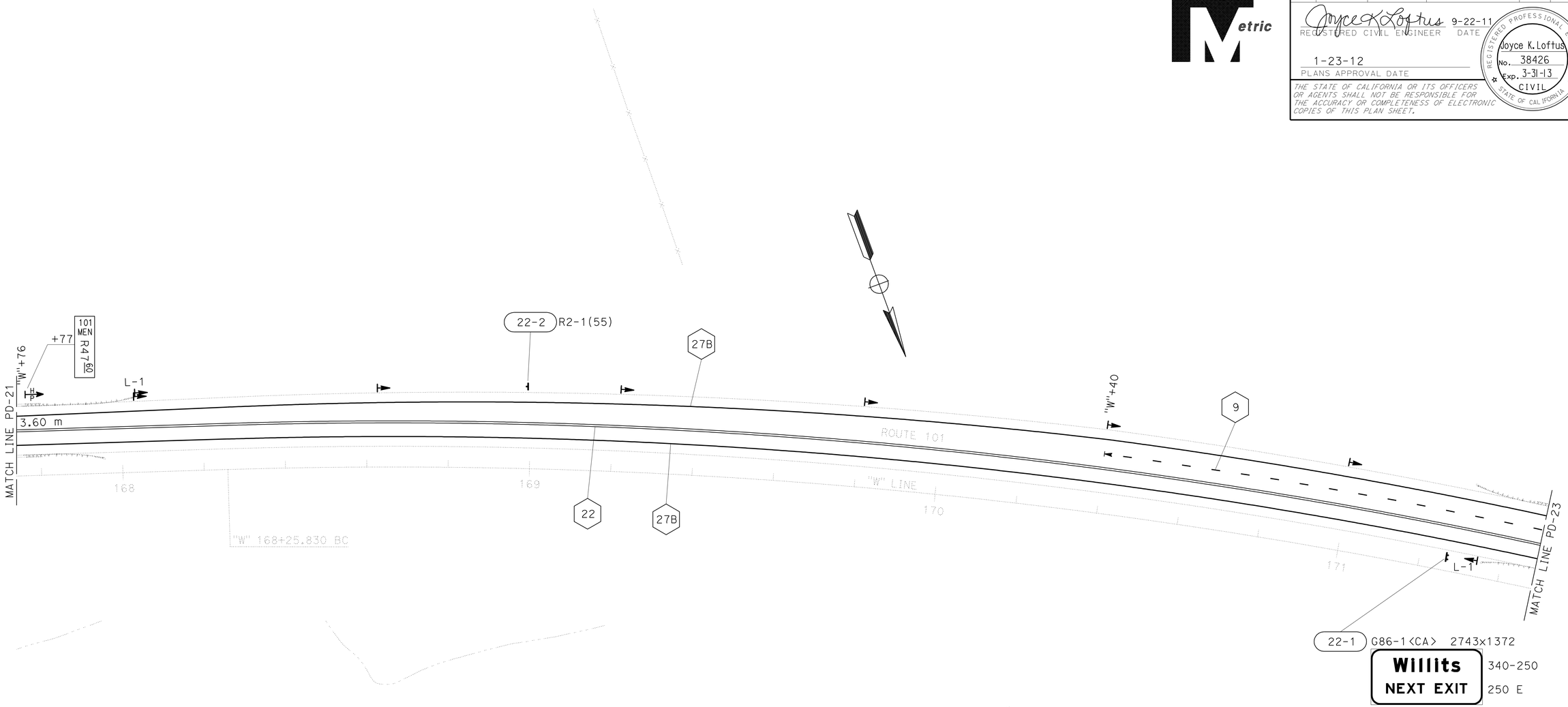

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-22

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

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CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT

FUNCTIONAL SUPERVISOR: SHAUN A. RICE

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LAST REVISION 06-07-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:44

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	480	939

Joyce K. Loftus 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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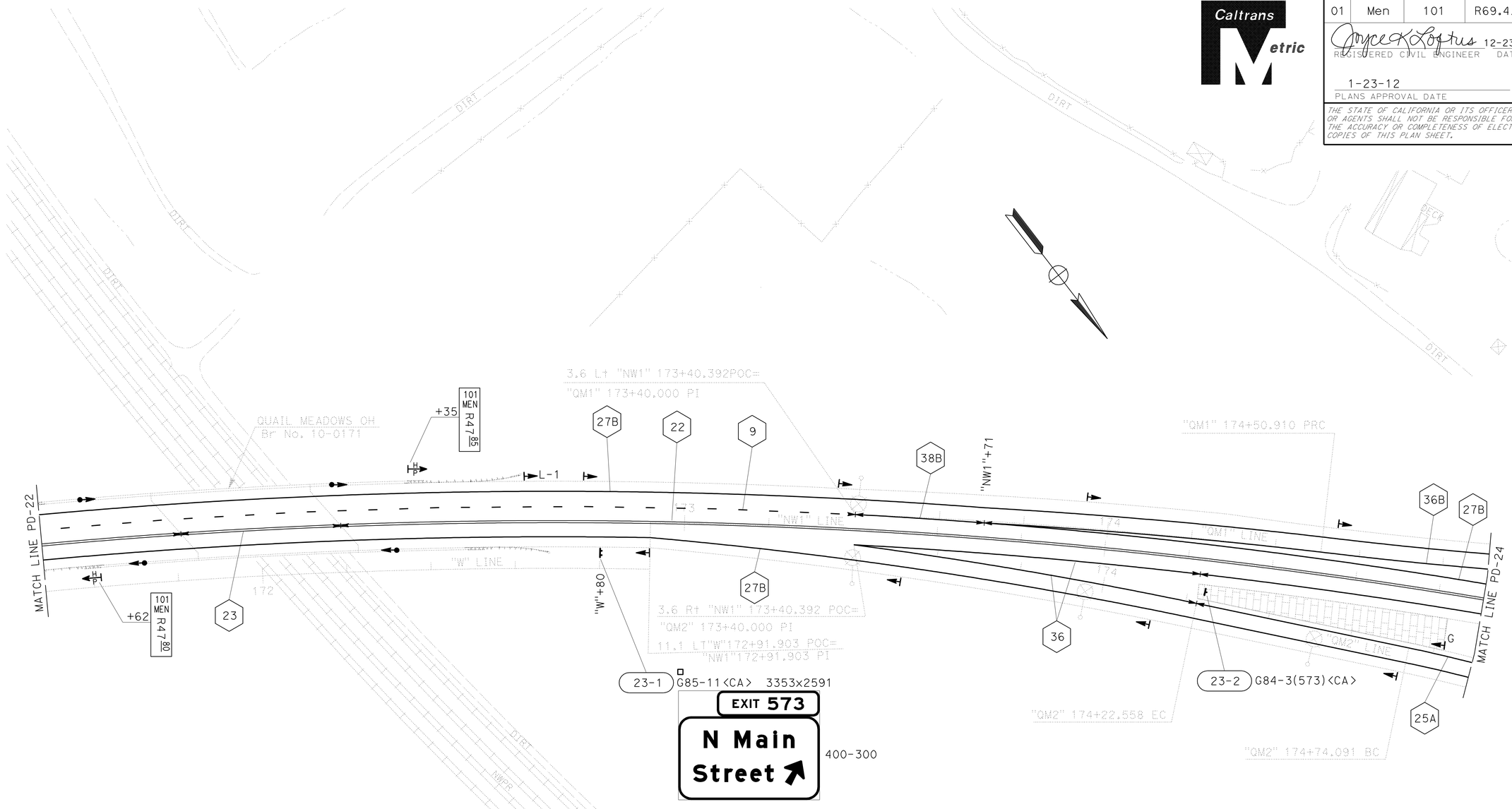

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-23

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY / DATE REVISED

LAST REVISION 12-22-11 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:44

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	481	939

Joyce K Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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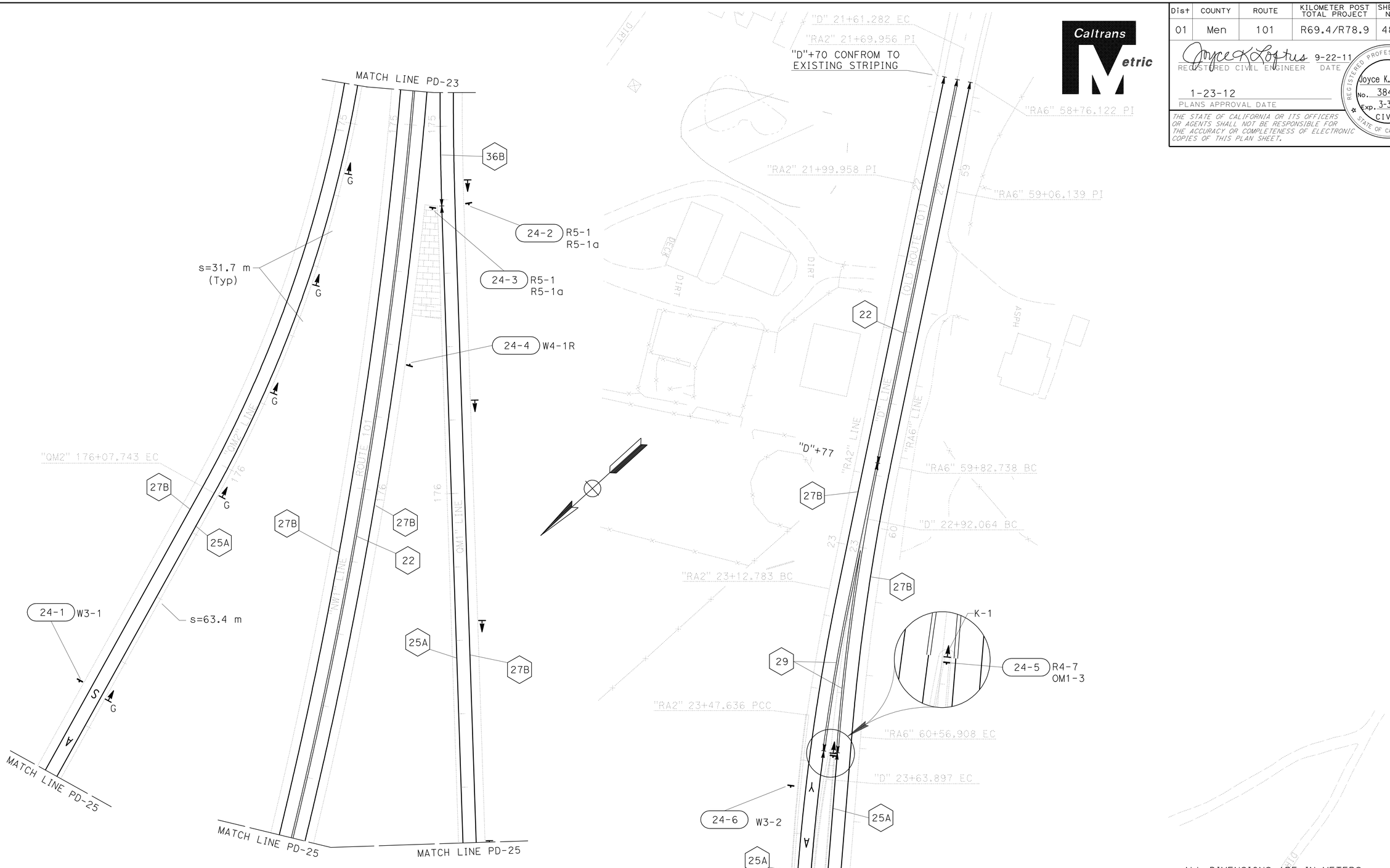
Caltrans Metric



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-24

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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY / DATE REVISED

LAST REVISION 09-14-11
DATE PLOTTED => 26-JAN-2012
TIME PLOTTED => 06:44

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	482	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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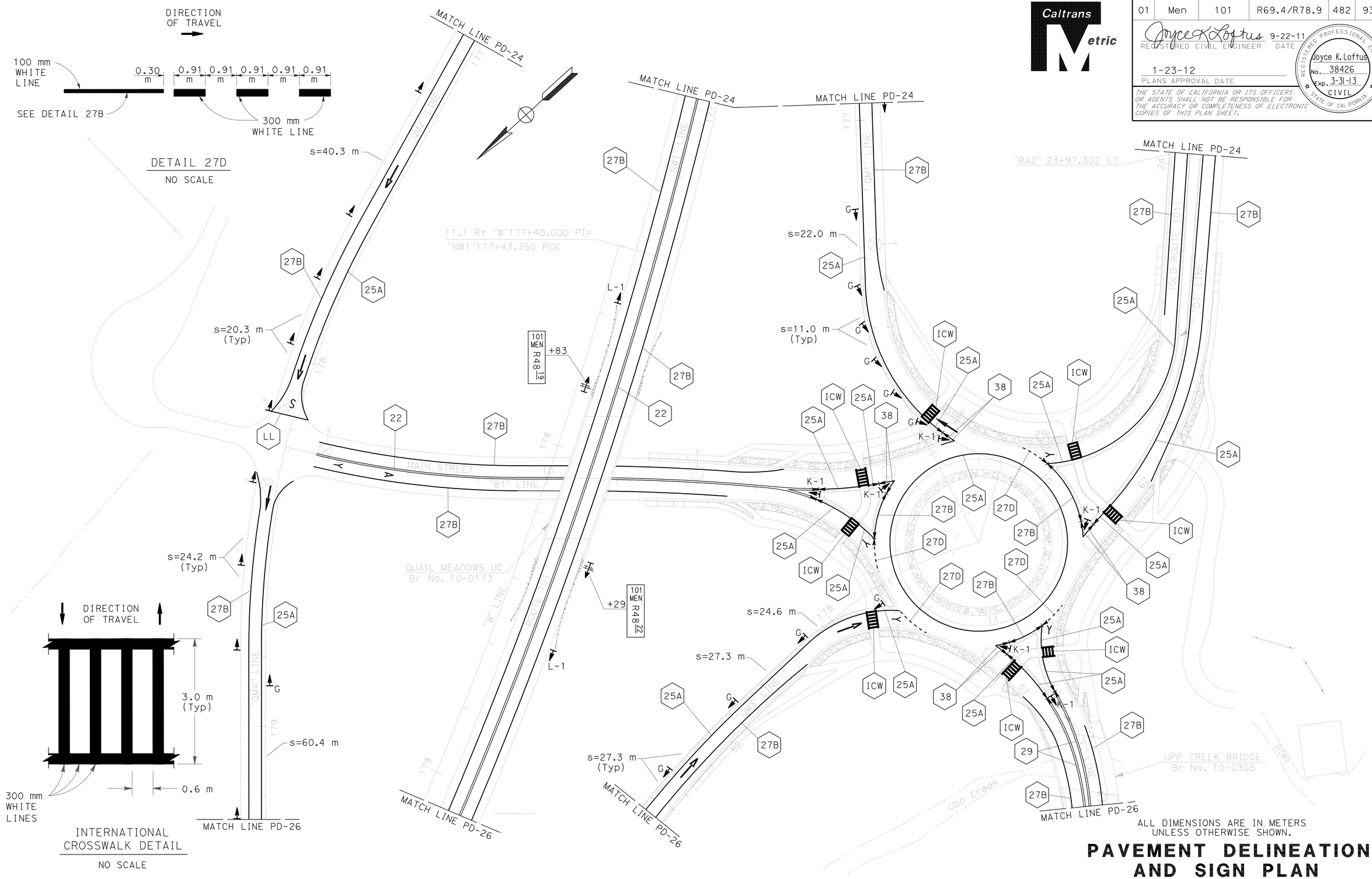
Caltrans Metric



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-25

1. SEE SHEET SD-1 FOR SIGNING INFORMATION.
2. THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY / DATE REVISED

LAST REVISION 09-14-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:44

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	483	939

Joyce K. Loftus 9-22-11
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1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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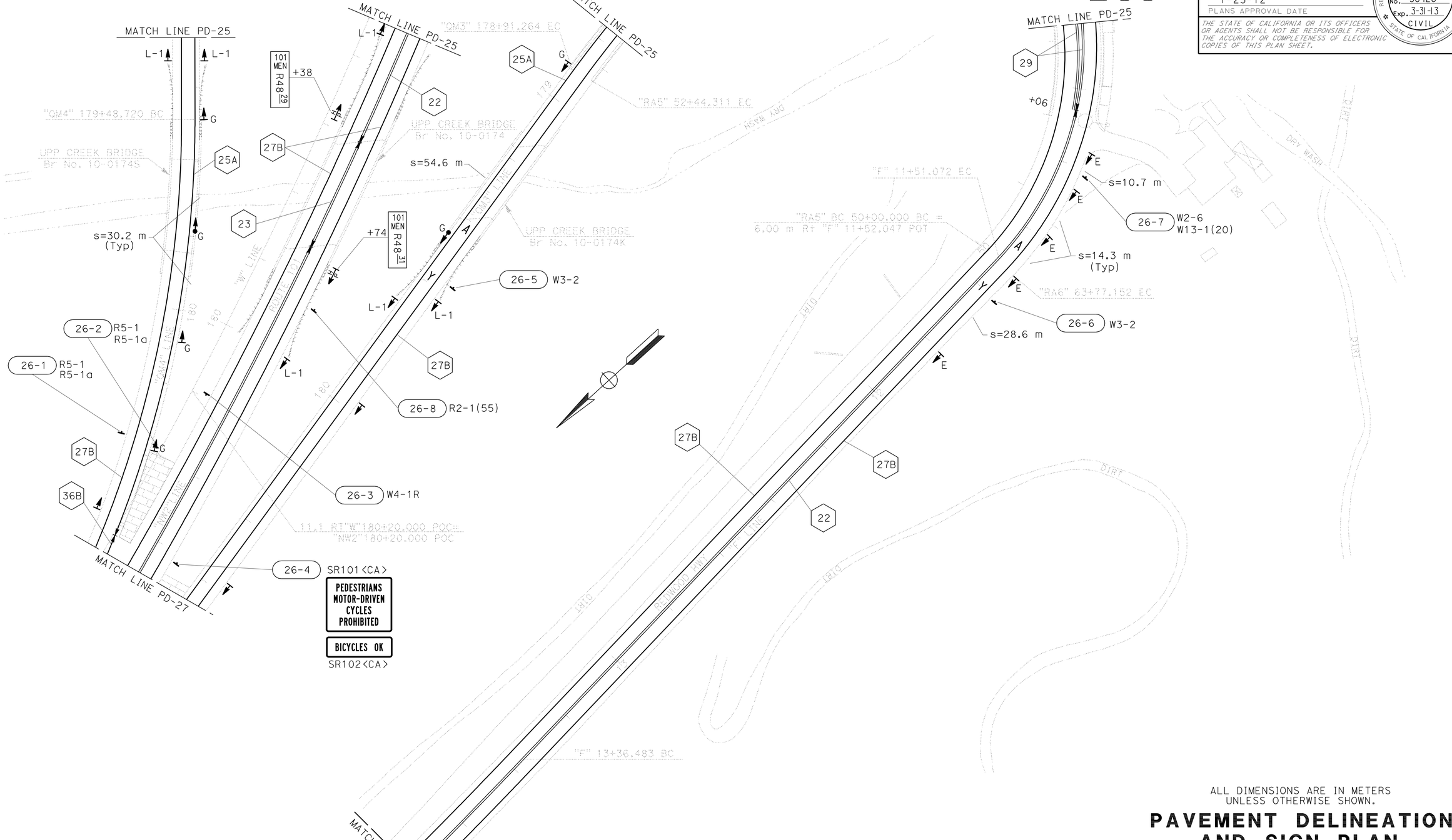

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-26

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
JOYCE LOFTUS	JEFF JEWETT

FUNCTIONAL SUPERVISOR: SHAUN A. RICE

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	484	939

Joyce K. Loftus 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

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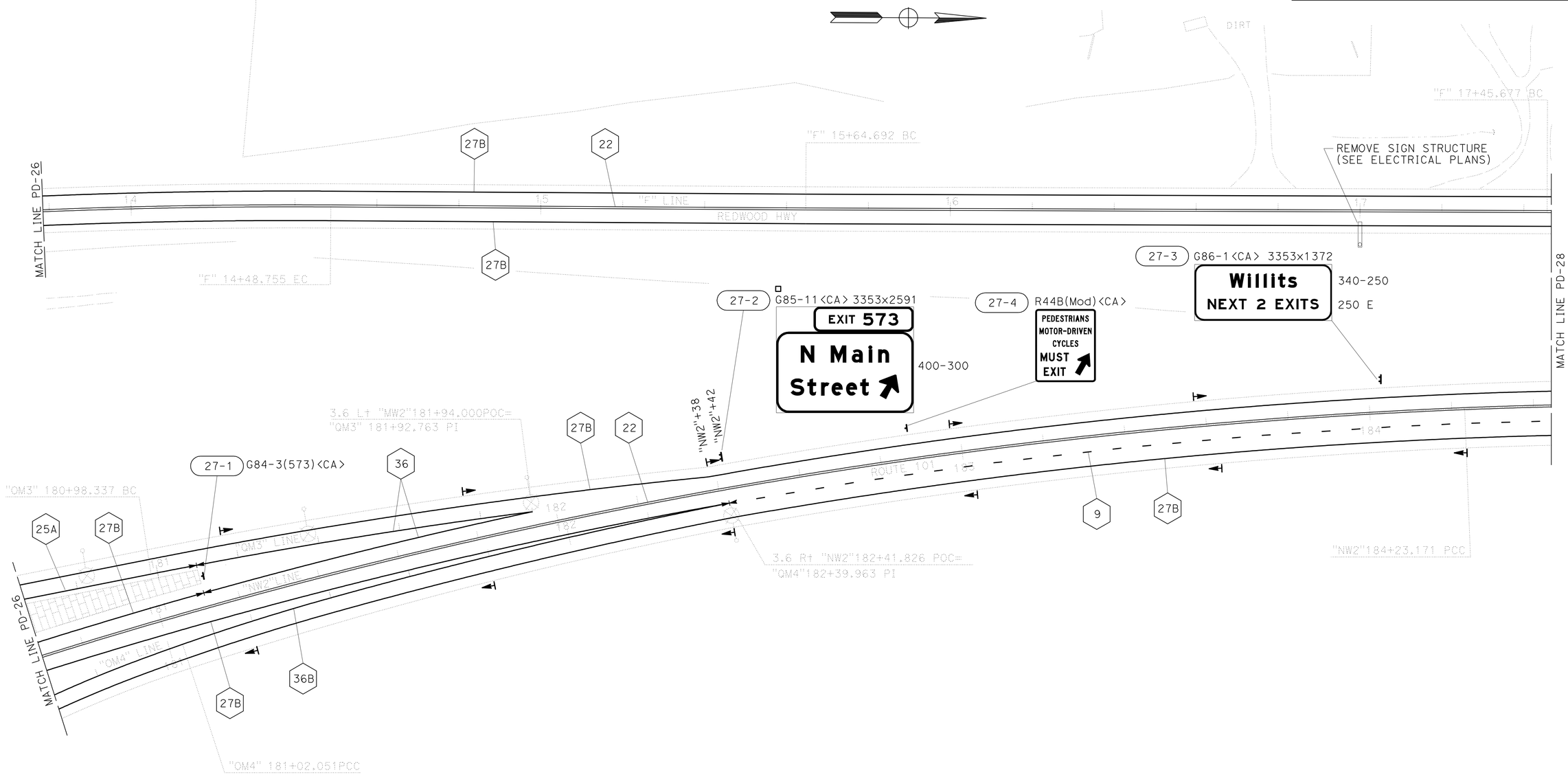

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 12-22-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:45

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	485	939

Joyce K Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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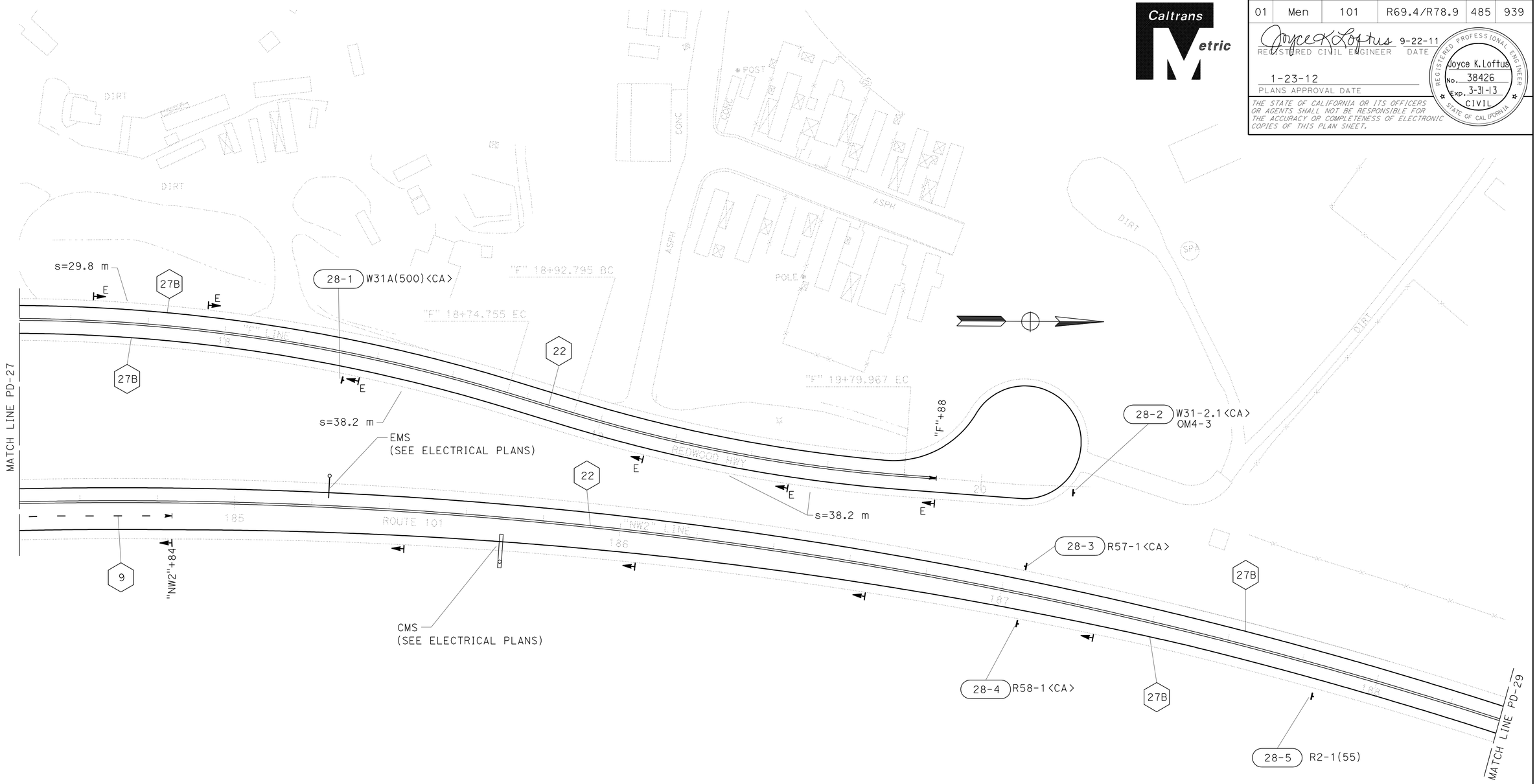
Caltrans Metric



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-28

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 04-23-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	486	939

Joyce K Loftus 9-22-11
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REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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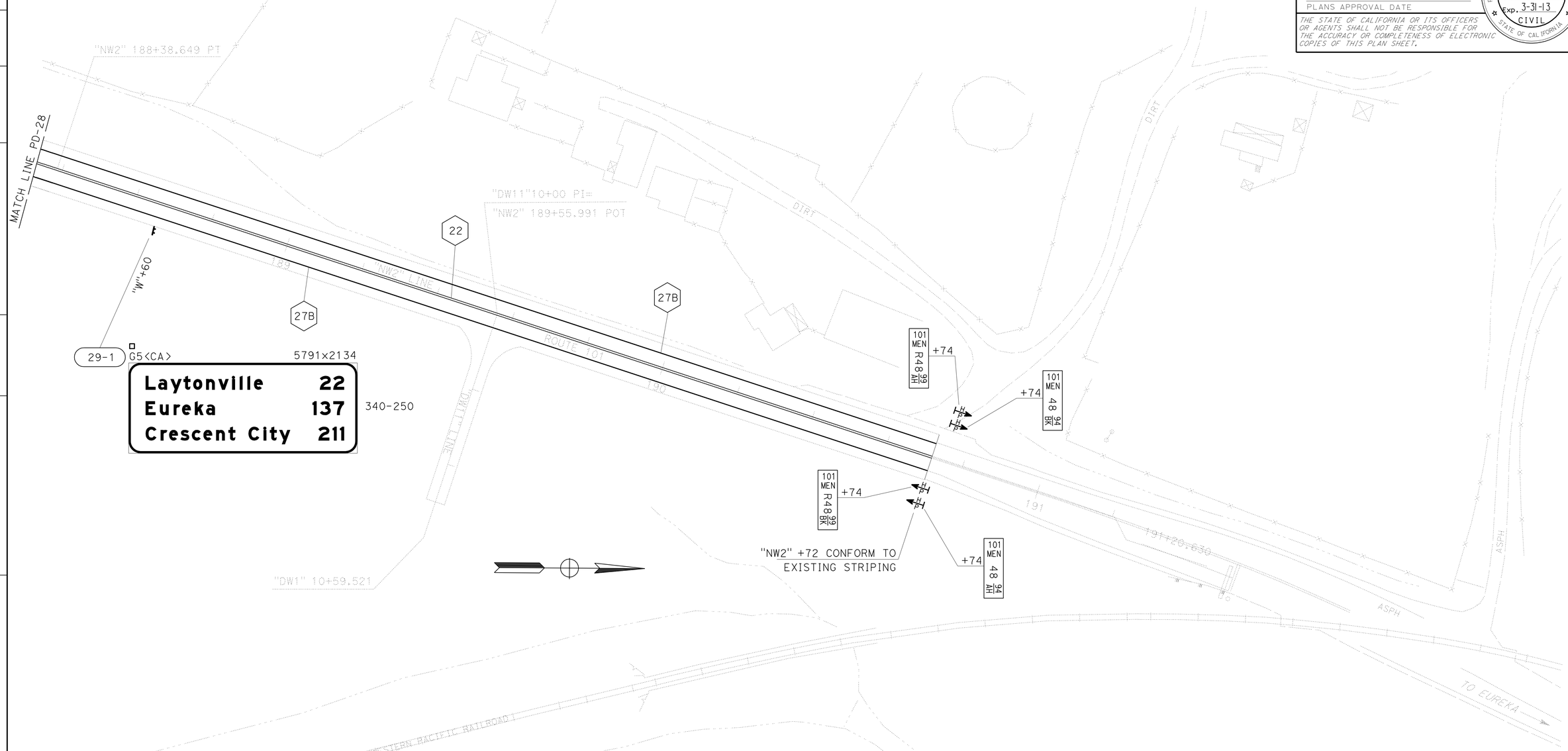
Caltrans Metric



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
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REVISED BY
DATE REVISED

LAST REVISION 04-23-10
DATE PLOTTED => 26-JAN-2012
TIME PLOTTED => 06:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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Joyce K Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
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REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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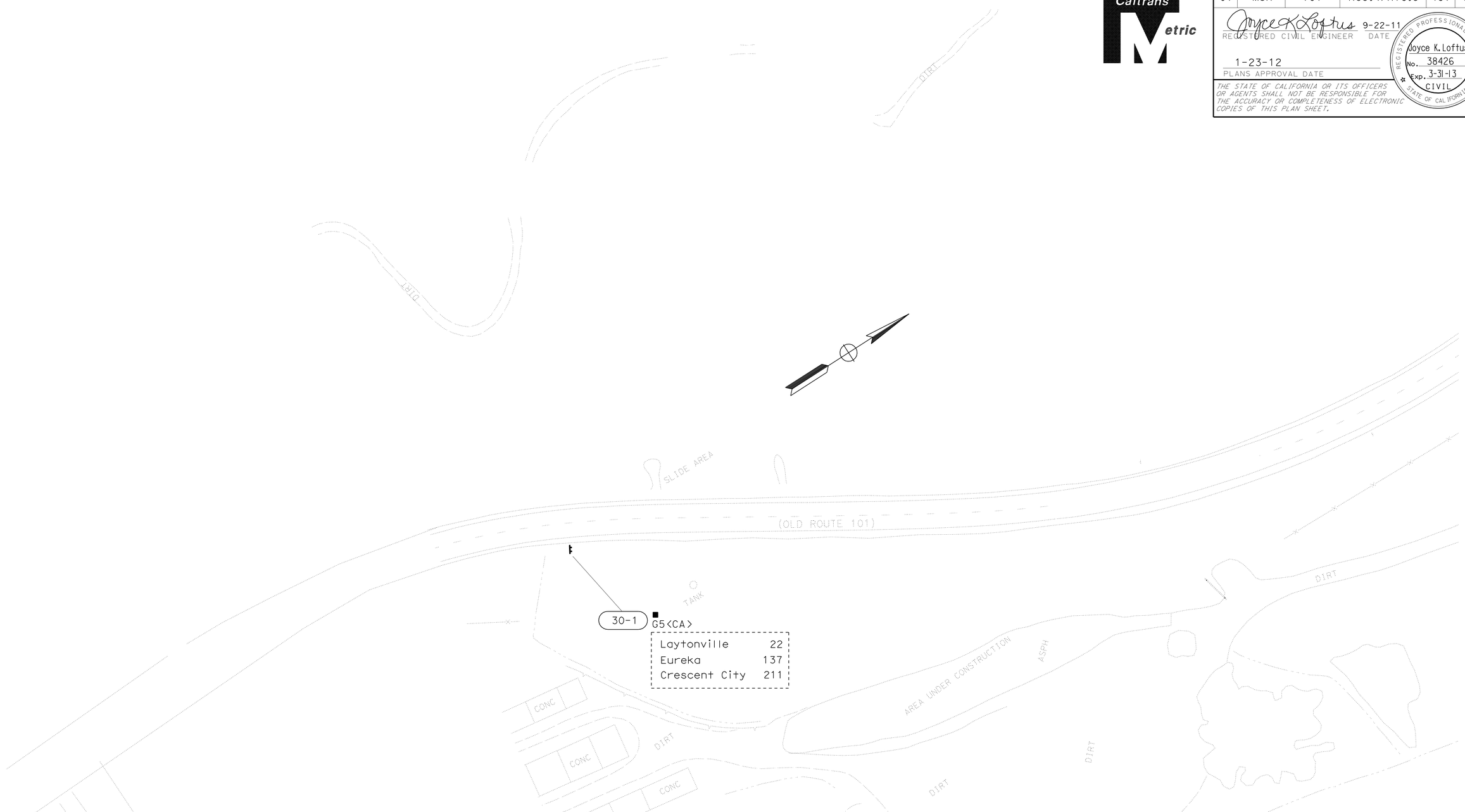
Caltrans Metric



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-30

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FUNCTIONAL SUPERVISOR: SHAUN A. RICE

CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT

REVISED BY
DATE REVISED

LAST REVISION 04-23-10
DATE PLOTTED => 26-JAN-2012
TIME PLOTTED => 06:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joyce K. Loftus
No. 38426
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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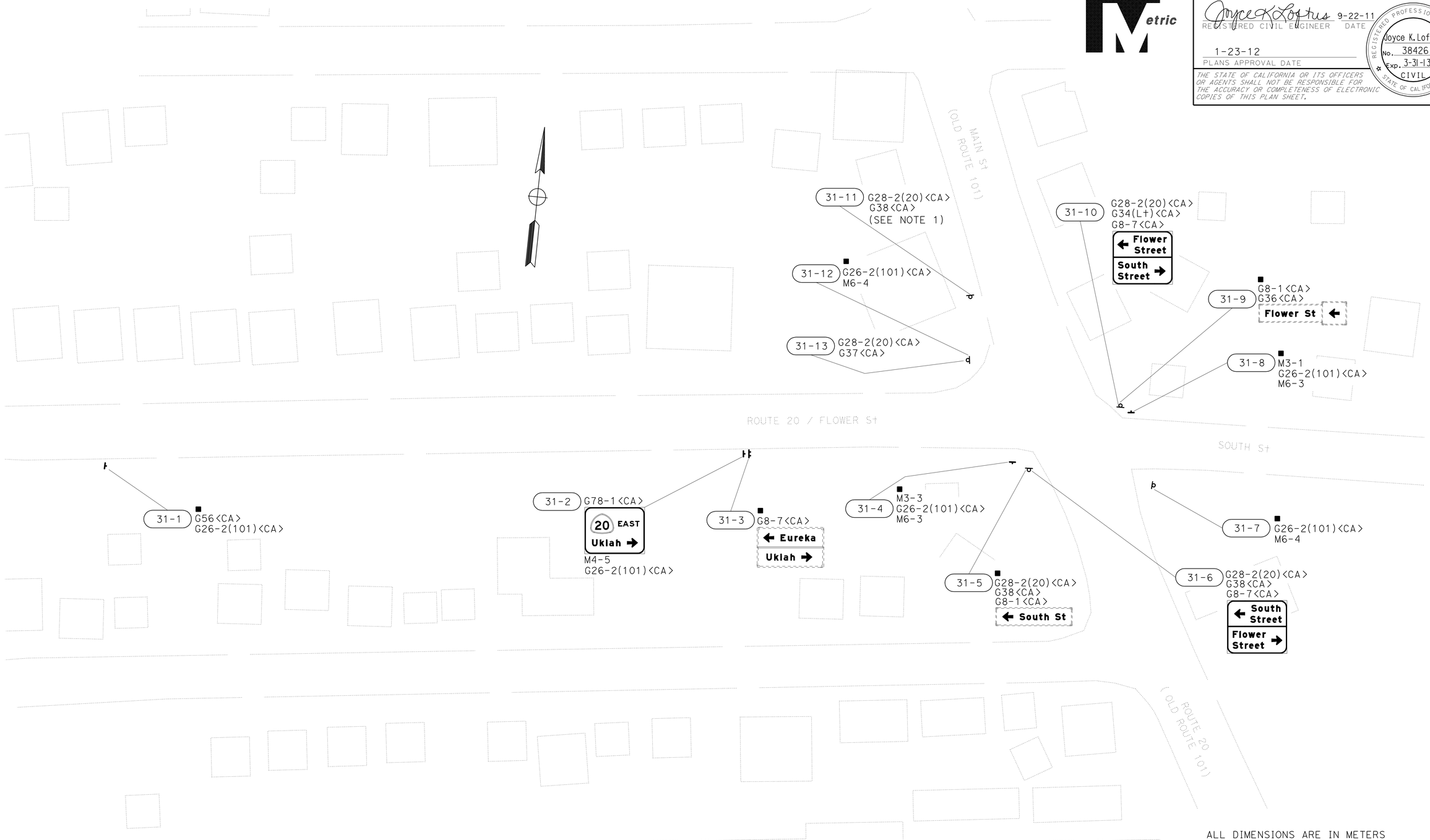
Caltrans Metric



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

NOTES:

1. SIGN PANELS TO BE MOUNTED ON LIGHTING STANDARD NUMBER 244.
2. THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

PD-31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 04-23-10
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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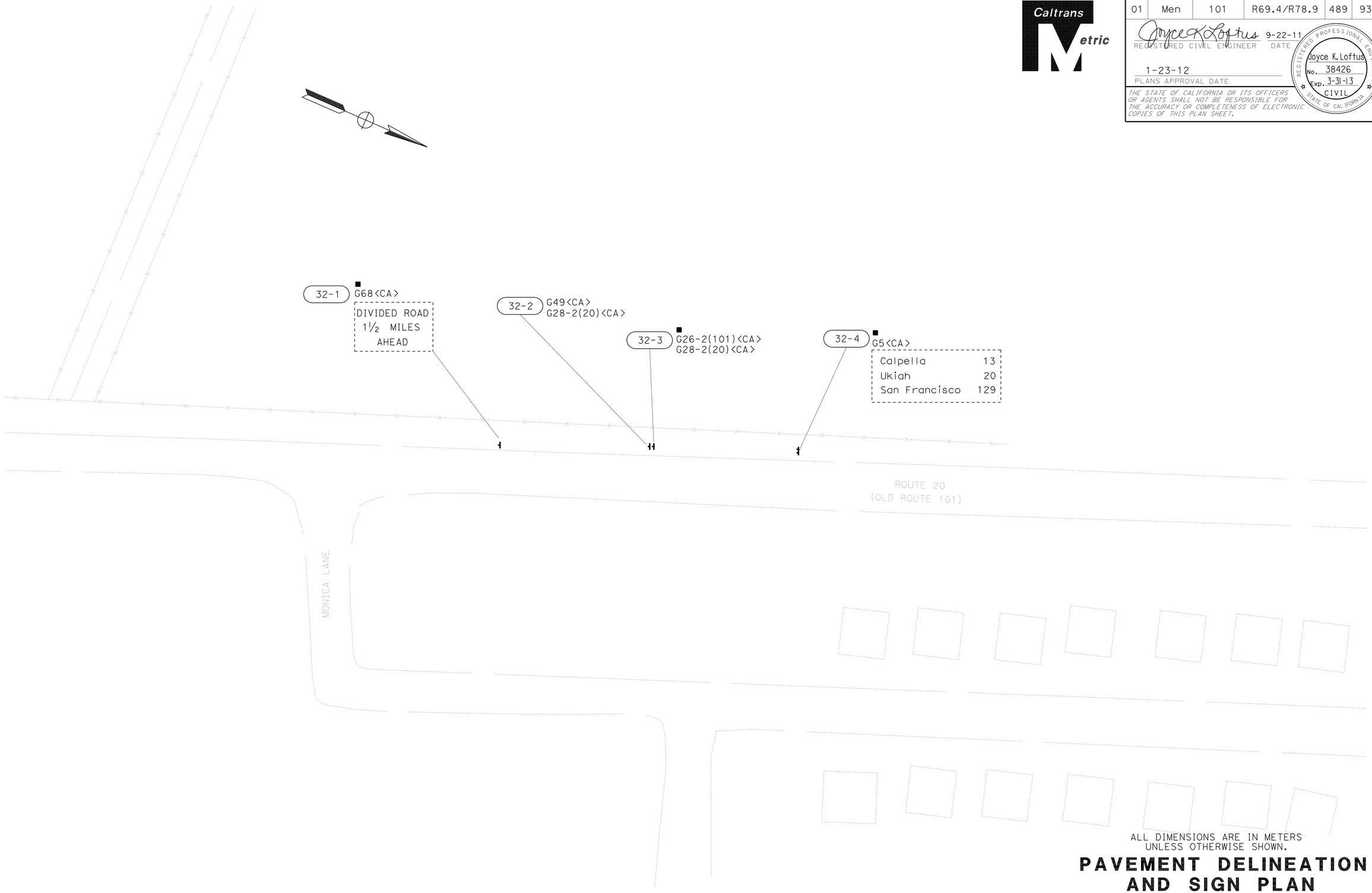
Caltrans Metric



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION AND SIGN PLAN

SCALE 1:500

PD-32

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION AND SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 04-23-10
DATE PLOTTED => 26-JAN-2012
TIME PLOTTED => 06:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	490	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

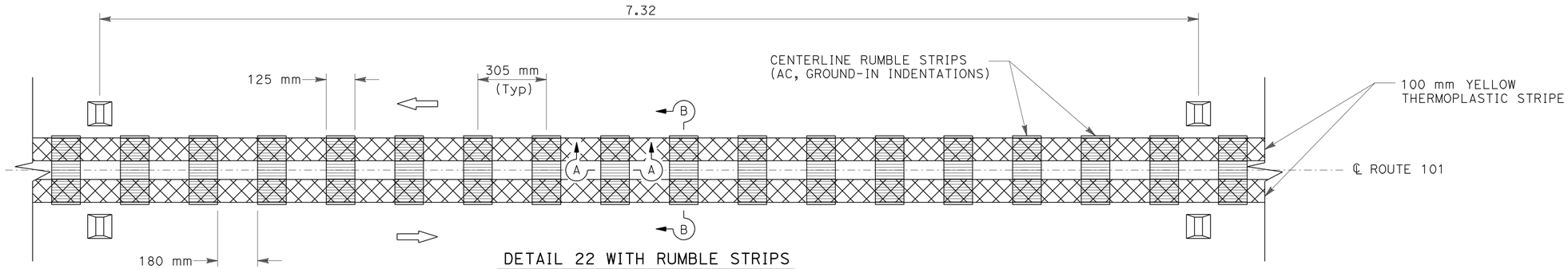
NOTES:

1. CENTERLINE RUMBLE STRIP SHALL BE CONSTRUCTED PRIOR TO INSTALLING FINAL TRAFFIC STRIPS.
2. FOR STRIPING DETAIL INFORMATION NOT SHOWN, SEE STANDARD PLANS.
3. THIS PLAN ACCURATE FOR CENTERLINE RUMBLE STRIP AND PAVEMENT DELINEATION DETAILS ONLY.

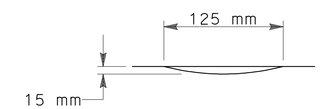
LEGEND:

DIRECTION OF TRAVEL

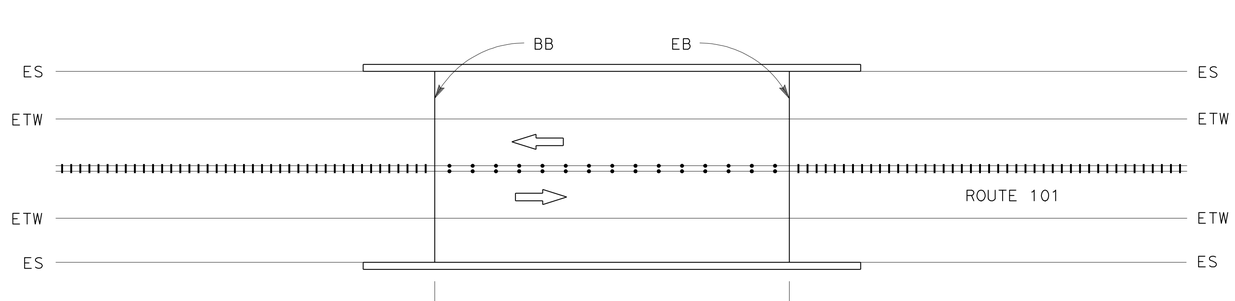
TYPE D TWO-WAY YELLOW PAVEMENT MARKER (RETROREFLECTIVE)



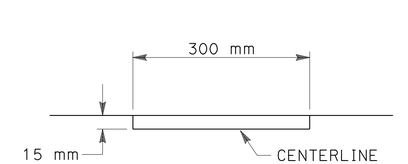
DETAIL 22 WITH RUMBLE STRIPS
(TYPICAL)



SECTION A-A



CENTERLINE RUMBLE STRIPS
AT BRIDGE APPROACH
(TYPICAL)



SECTION B-B

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: JOSEPH W. HORTON
CALCULATED-DESIGNED BY: JACK KEMMERLY
CHECKED BY: JOYCE LOFTUS
REVISED BY
DATE REVISED

LAST REVISION 06-09-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	491	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

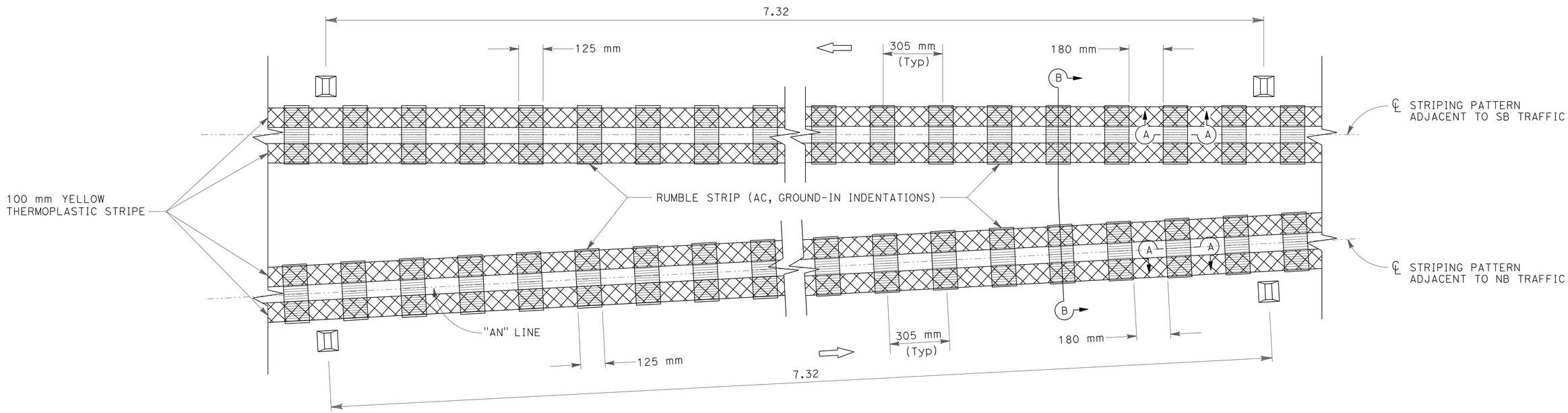
NOTES:

1. THE CENTERLINE RUMBLE STRIP (AC, GROUND-IN INDENTATIONS) SHALL BE CONSTRUCTED PRIOR TO PLACEMENT OF THE FINAL STRIPING.
2. FOR STRIPING DETAIL INFORMATION NOT SHOWN, SEE STANDARD PLANS.
3. THIS PLAN ACCURATE FOR CENTERLINE RUMBLE STRIP AND PAVEMENT DELINEATION DETAILS ONLY.

LEGEND

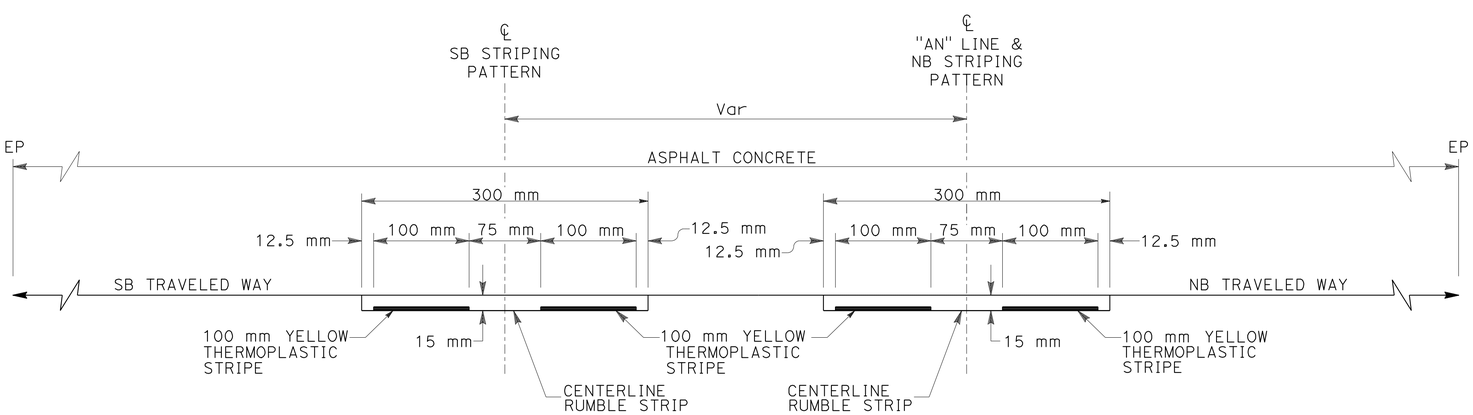
DIRECTION OF TRAVEL

TYPE D TWO-WAY YELLOW PAVEMENT MARKER (RETROREFLECTIVE)

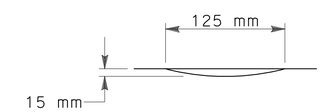


DETAIL 29 WITH RUMBLE STRIP (TYPICAL)

Sta "AN" 36+02± TO "AN" 39+66



SECTION B-B



SECTION A-A

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-2

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JACK KEMMERLY
CHECKED BY: JOYCE LOFTUS
FUNCTIONAL SUPERVISOR: JOSEPH W. HORTON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 06-09-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:32

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	492	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
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Caltrans Metric

100 mm THERMOPLASTIC TRAFFIC STRIPE (BROKEN 5.18 m - 2.14 m)

DETAIL NUMBER	METER
9	734
TOTAL	734

100 mm THERMOPLASTIC TRAFFIC STRIPE (BROKEN 10.98 m - 3.66 m)

DETAIL NUMBER	METER
11	4 592
19	165
TOTAL	4 757

100 mm THERMOPLASTIC TRAFFIC STRIPE

DETAIL NUMBER	METER
19	165
22	12 508
25	4 403
25A	3 104
27B	30 497
27D	37
29	2 370
TOTAL	53 084

200 mm THERMOPLASTIC TRAFFIC STRIPE

DETAIL NUMBER	METER
36	532
36A	357
36B	377
38	129
38B	31
TOTAL	1 426

THERMOPLASTIC PAVEMENT MARKING

DESCRIPTION	NUMBER	SQUARE METER
"YIELD"	6 @ 2.23 m^2	13.38
"AHEAD"	6 @ 2.88 m^2	17.28
"STOP"	6 @ 2.04 m^2	12.24
TYPE I(7.32) ARROW	4 @ 2.88 m^2	11.52
TYPE III ARROW	2 @ 3.90 m^2	7.80
TYPE V ARROW	18 @ 3.06 m^2	55.08
TYPE VI ARROW	3 @ 3.90 m^2	11.70
LIMIT LINE	3	11.13
INTERNATIONAL CROSSWALKS	8	41.40
TOTAL		181.53

PAVEMENT MARKER

	RETROREFLECTIVE				NON-REFLECTIVE	
DETAIL NUMBER	TYPE C (EACH)	TYPE D (EACH)	TYPE G (EACH)	TYPE H (EACH)	TYPE A (EACH)	TYPE AY (EACH)
9			51			
13			309		1 232	
14	8				24	
19		12		25		
22		1 711				
23		549				2 736
25				302		
25A				425		
29		163				
36			75			
36A			50			
36B			53			
38			19			
38B			10			
SUBTOTAL	8	2 435	567	752	1 256	2 736
TOTAL	3 762				3 992	

DELINEATOR - OBJECT MARKER - HIGHWAY POST MARKER

SHEET NUMBER	DELINEATOR (CLASS 1)			CONCRETE BARRIER DELINEATOR (400 mm)		OBJECT MARKER		HIGHWAY POST MARKER
	TYPE E (EACH)	TYPE F (EACH)	TYPE G (EACH)	TYPE F (EACH)	TYPE G (EACH)	TYPE K-1 (EACH)	TYPE L-1 (EACH)	(Each)
PD-2								
PD-3		10						
PD-4		7	11					
PD-5		17	6	2			5	3
PD-6		9	6		2		4	2
PD-7		4						
PD-8		6						1
PD-9								
PD-10		4		1			1	2
PD-11		8					1	
PD-12		8					1	
PD-13		6		1			1	2
PD-14		7						
PD-15		8						1
PD-16		2		1			2	
PD-17				5				1
PD-18				8				
PD-19				9				
PD-20				8				
PD-21				7				
PD-22		6					2	1
PD-23		8	1	4			1	2
PD-24		3	5			1		
PD-25		10	11			6	2	2
PD-26	5	3	4		2		6	2
PD-27		11						
PD-28	6	5						
PD-29								4
SUBTOTAL	11	142	44	46	4	7	26	23
TOTAL	197			50		7	26	23

NOTE: THE OBJECT MARKERS (TYPE K-1) SHALL BE SURFACE MOUNTED.

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 09-16-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:32

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	493	939

Joyce K. Loftus 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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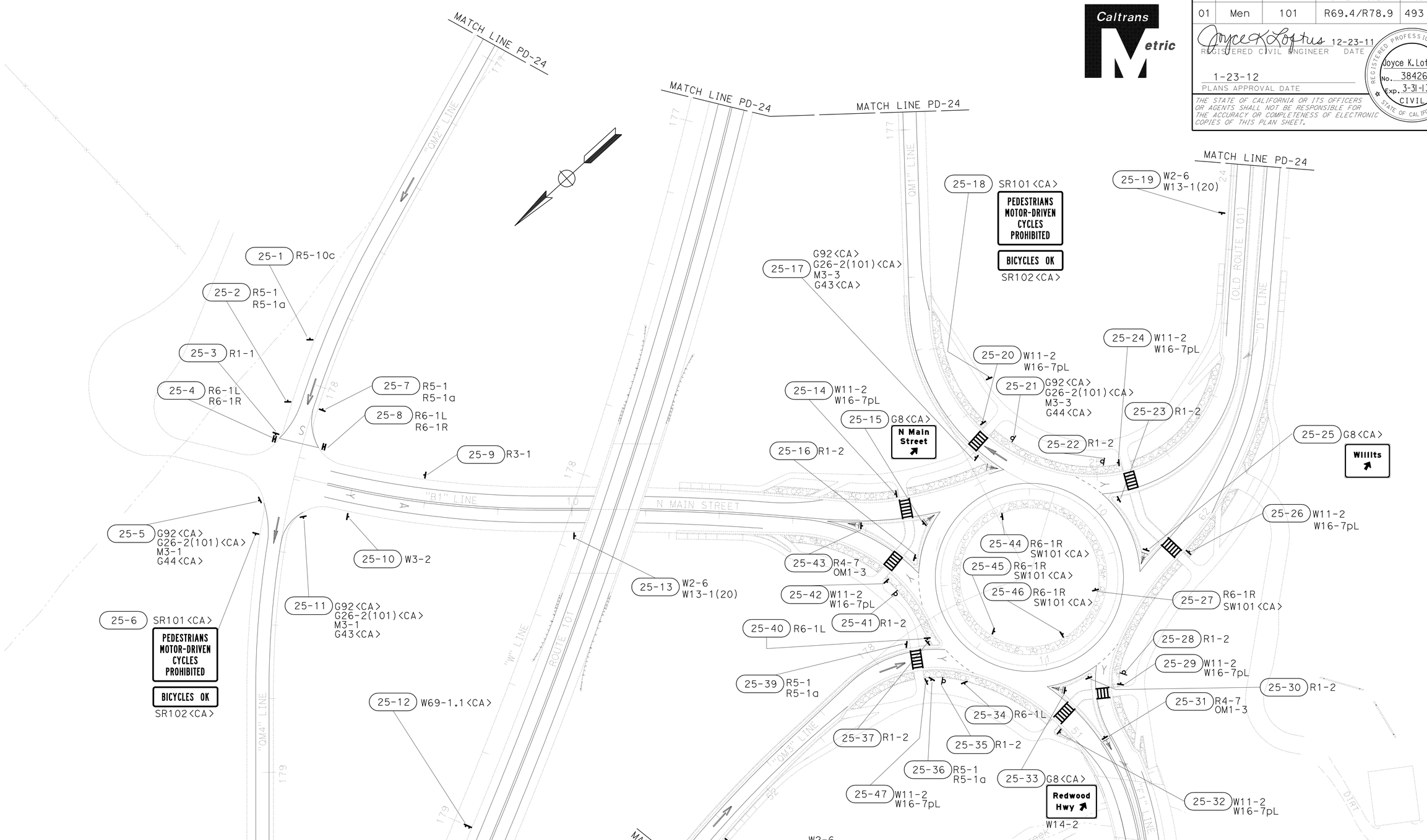

SIGN DETAILS

SCALE 1:500

NOTES:

1. SHEET SEE PD-25 FOR PAVEMENT DELINEATION INFORMATION.
2. THIS PLAN ACCURATE FOR SIGN WORK ONLY.

SD-1

REVISED BY	
DATE REVISED	
CALCULATED-DESIGNED BY	JOYCE LOFTUS
CHECKED BY	JEFF JEWETT
FUNCTIONAL SUPERVISOR	SHAUN A. RICE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 12-22-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:32

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01	Men	101	R69.4/R78.9	494	939

Joyce K. Loftus 12-23-11
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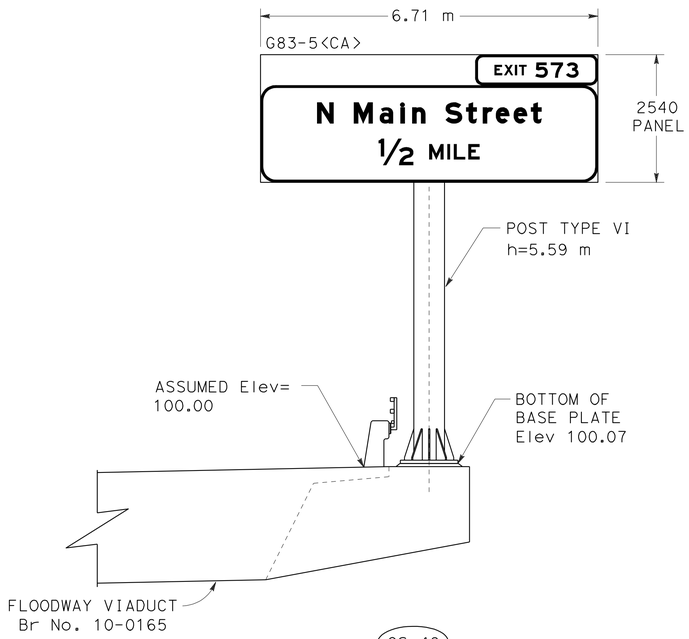
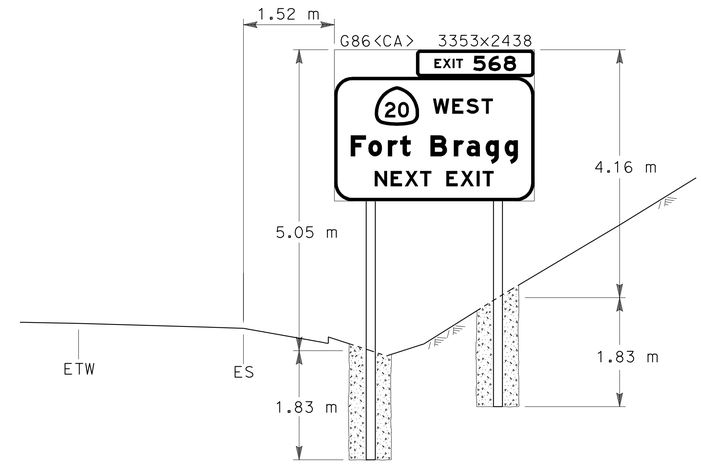


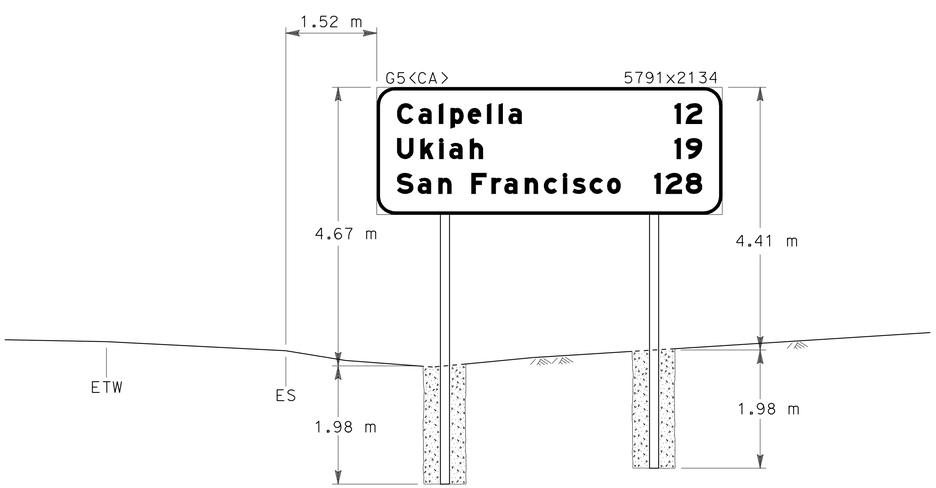
CS-48

Sta "W" 166+32 FNBT
(SEE NOTE 4)



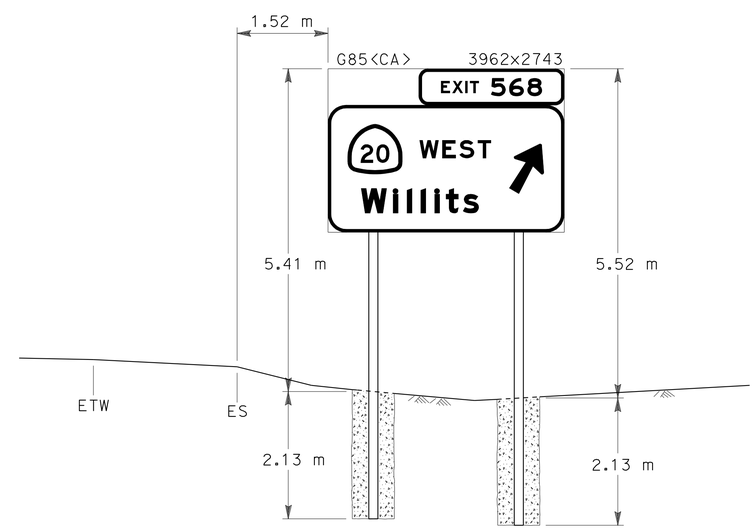
2-4

Sta "A" 95+40 FNBT
TYPE M POST



3-2

Sta "A" 99+00 FSBT
TYPE L POST



3-5

Sta "A" 100+44 FNBT
TYPE M POST

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
2. h = DISTANCE FROM BOTTOM OF FRAME TO BOTTOM OF BASE PLATE.
3. THE OVERHEAD SIGN PANEL SHALL BE LAMINATED PANEL TYPE A.
4. FOR OVERHEAD SIGN FOUNDATION INFORMATION, SEE STRUCTURE PLANS.

SIGN DETAILS

NO SCALE

SD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 12-22-11
DATE PLOTTED => 26-JAN-2012
TIME PLOTTED => 06:33

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	495	939

Joyce K. Loftus 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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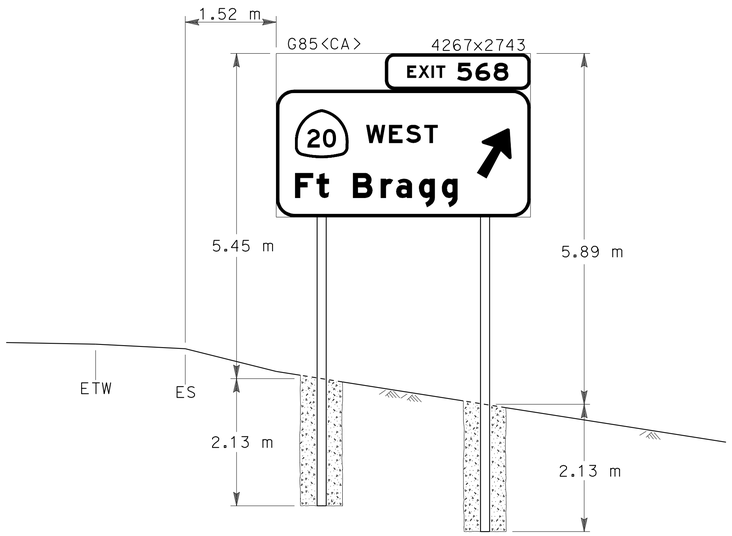
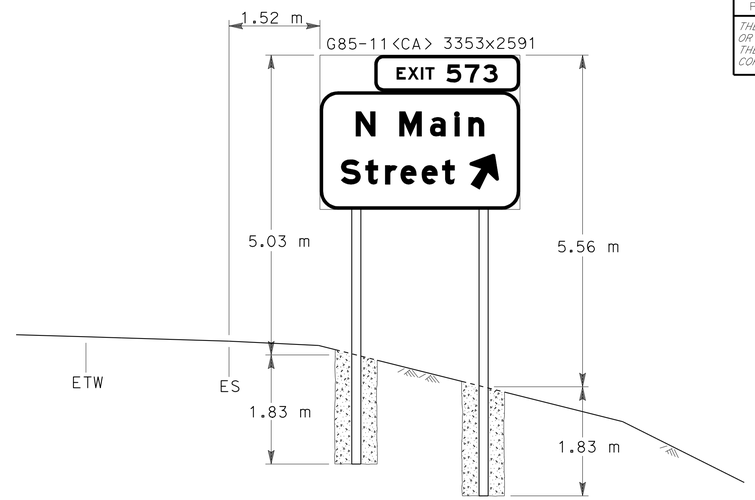
Caltrans Metric



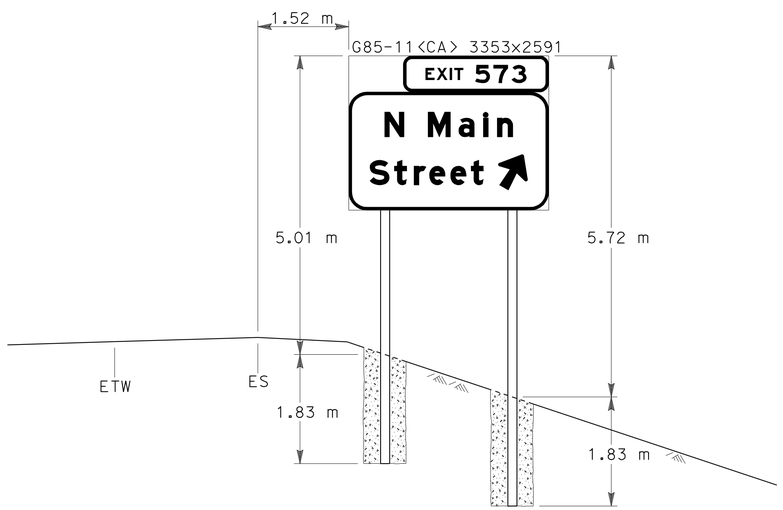
6-4

Sta "A" 110+80 FSBT
TYPE L POST



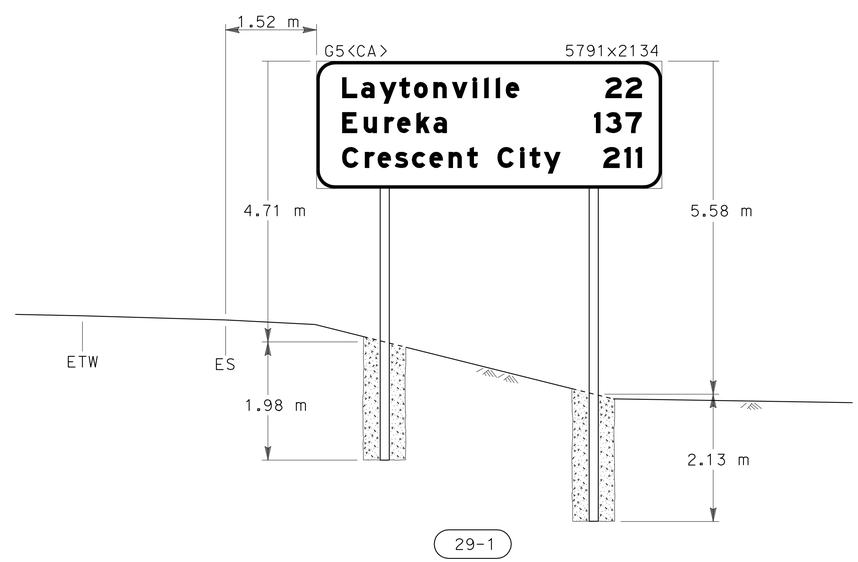
23-1

Sta "W" 172+80 FNBT
TYPE M POST



27-2

Sta "NW2" 182+40 FSBT
TYPE M POST



29-1

Sta "NW2" 188+60 FNBT
TYPE L POST

SIGN DETAILS

NO SCALE

SD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 12-22-11
DATE PLOTTED => 26-JAN-2012
TIME PLOTTED => 06:33

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	496	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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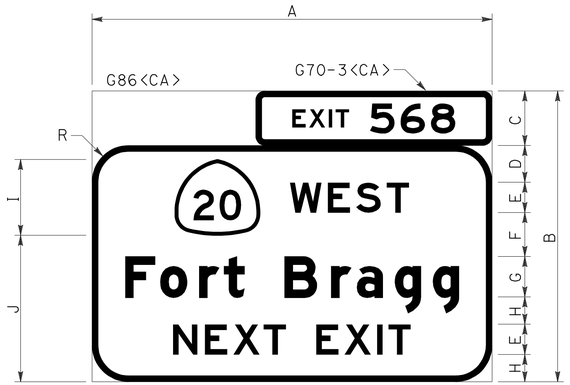
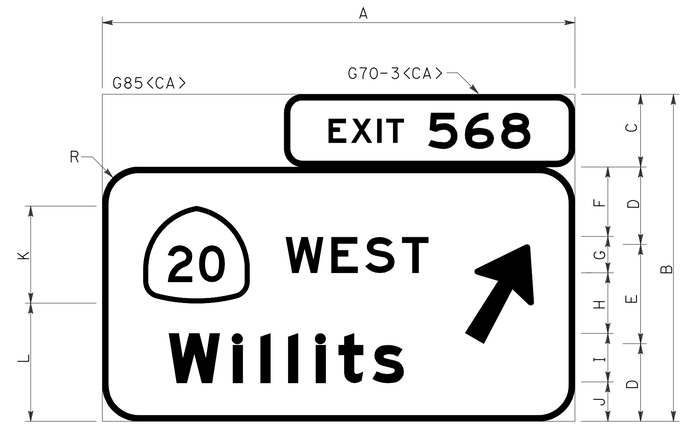
Caltrans Metric



A	B	C	D	E	F	G	H	I	J	R
3353	2438	457	310	254E	367	338E Mod	229	635	1227	305

51 mm BORDER
711 X 635 ROUTE SHIELD

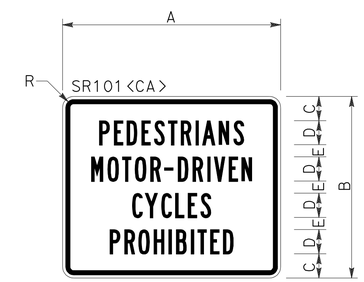
2-4



A	B	C	D	E	F	G	H	I	J	K	L	R
3962	2743	610	650	833	584	305E	508	406E Mod	330	819	991	305

51 mm BORDER
889 X 813 ROUTE SHIELD
ARROW 400UC-2LV - 60°

3-5



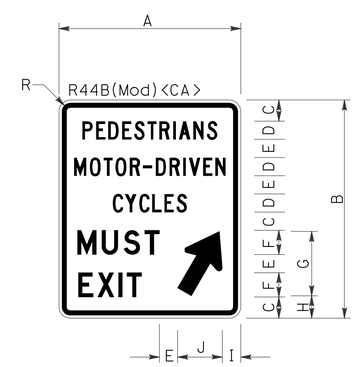
A	B	C	D	E	R
914	762	102	102B	51	48

20 mm BORDER, 13 mm INDENT

A	B	C	D	E	F	R
5791	2134	272	338E Mod	246	356	305

51 mm BORDER

3-2



A	B	C	D	E	F	G	H	I	J	R
762	914	89	76C	76	102D	269	94	79	185	48

20 mm BORDER, 13 mm INDENT
ARROW CUSTOM 292 X 178 - 60°

3-11 27-4

A	B	C	D	R
914	305	102	102B	48

20 mm BORDER, 13 mm INDENT

4-2 5-4 5-14

25-6 25-18 26-4

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

NOTES:
1. ALL SIGN CODE ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA <CA> SIGN CODES.
2. DIMENSIONS WITH A LETTER SUFFIX DENOTE FEDERAL STANDARD ALPHABET SERIES TO BE USED.

SIGN DETAILS

NO SCALE

SD-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 09-21-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:33

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	497	939

Joyce K. Loftus 12-23-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

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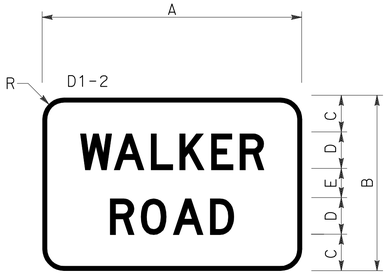
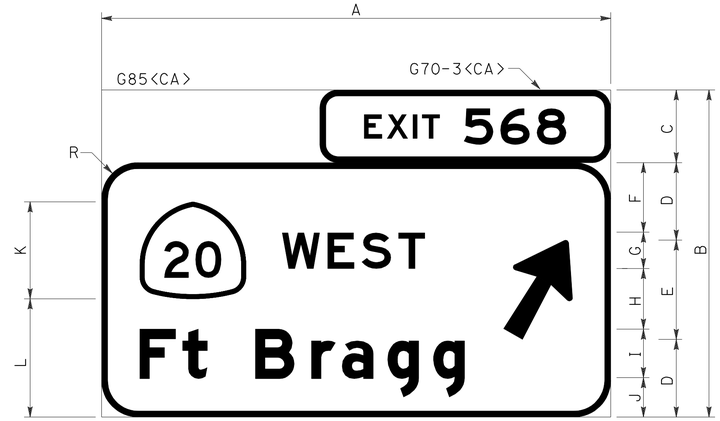
Caltrans Metric



A	B	C	D	E	R
914	610	127	127D	102	76

16 mm BORDER

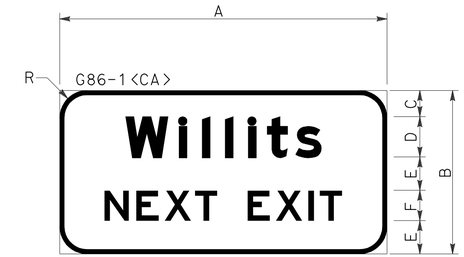
5-24



A	B	C	D	E	F	G	H	I	J	K	L	R
4267	2743	610	651	833	584	305E	509	406E Mod	330	813	991	305

51 mm BORDER
889 X 813 ROUTE SHIELD
ARROW 400UC-2LV - 60°

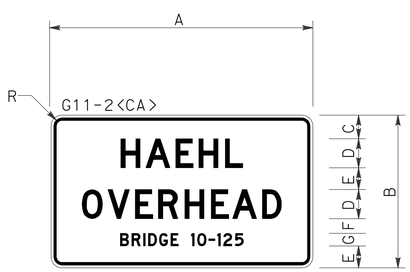
6-4



A	B	C	D	E	F	R
2743	1372	221	338E Mod	279	254E	229

38 mm BORDER

22-1



A	B	C	D	E	F	G	R
914	533	81	102D	76	51	46D	38

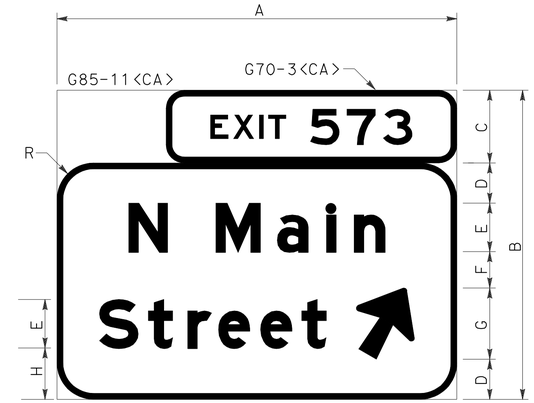
10 mm BORDER, 10 mm INDENT

5-26

A	B	C	D	E	F	G	H	I	J	R
6706	2540	610	356	406E Mod	394	305E	470	279	533E	305

51 mm BORDER

CS-48



A	B	C	D	E	F	G	H	R
3353	2591	610	338	406E Mod	305	594	432	305

51 mm BORDER
ARROW 400UC-1LV - 60°

23-1 27-2

SIGN DETAILS
NO SCALE

SD-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CALCULATED-DESIGNED BY: JOYCE LOFTUS
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REVISED BY / DATE REVISED

LAST REVISION 12-22-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:33

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	498	939

Joyce K. Loftus 12-23-11
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1-23-12
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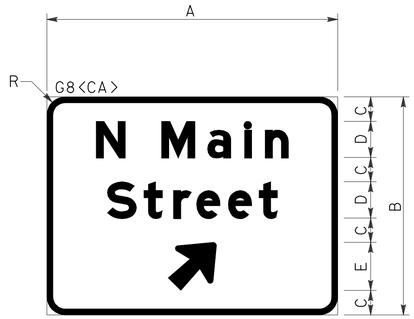
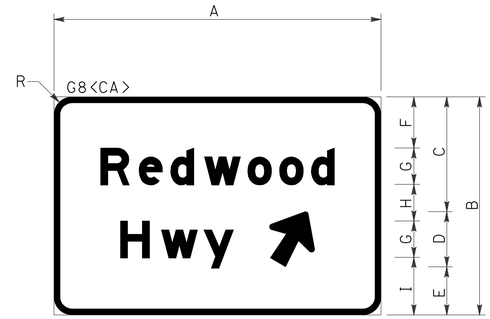
Caltrans Metric



A	B	C	D	E	R
1219	914	102	152E Mod	203	76

25 mm BORDER
ARROW 152UC-1L - 60°

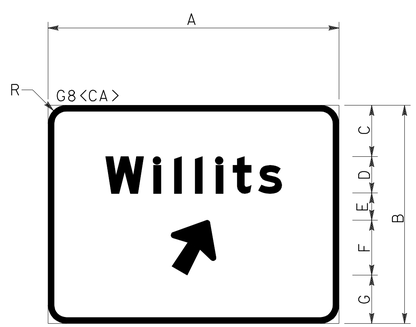
25-15



A	B	C	D	E	F	G	H	I	R
1372	914	483	229	203	216	152E Mod	152	241	76

25 mm BORDER
ARROW 152UC-1L - 60°

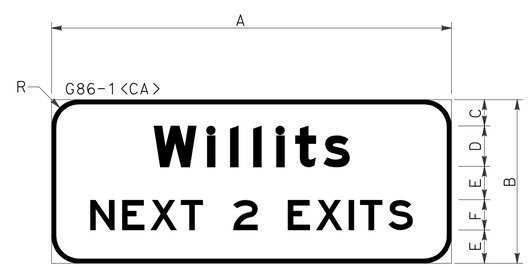
25-33



A	B	C	D	E	F	G	R
1219	914	216	152E Mod	114	229	203	76

25 mm BORDER
ARROW 152UC-1L - 60°

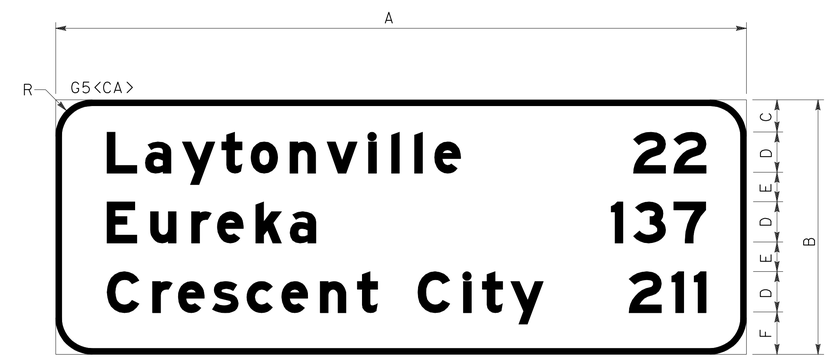
25-25



A	B	C	D	E	F	R
3353	1372	221	338E Mod	279	254E	229

38 mm BORDER

27-3



A	B	C	D	E	F	R
5791	2134	272	338E Mod	246	356	305

51 mm BORDER

29-1

SIGN DETAILS
NO SCALE

SD-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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REVISED BY
DATE REVISED

LAST REVISION 12-23-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 06:34

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	499	939

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

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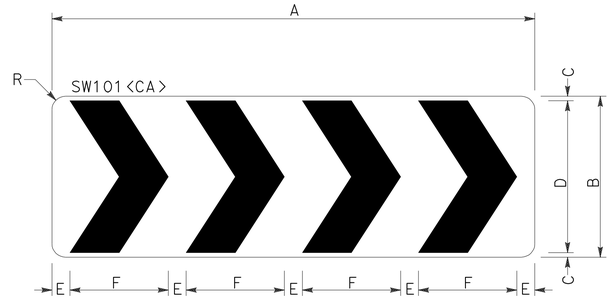
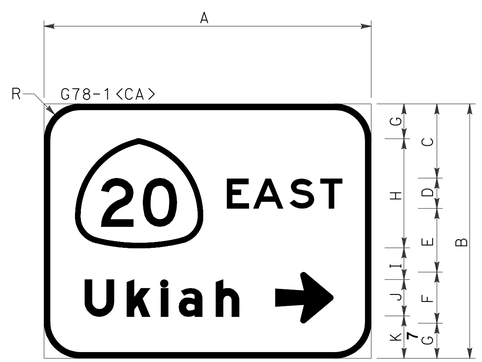
Caltrans Metric



A	B	C	D	E	F	R
1372	457	13	432	51	279	38

NO BORDER

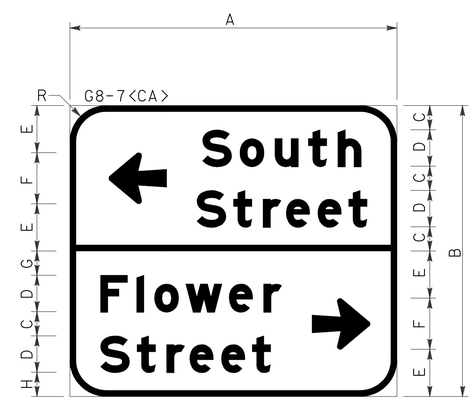
25-27 25-44 25-45 25-46



A	B	C	D	E	F	G	H	I	J	K	R
1372	1067	312	127E	267	213	147	457	132	152E Mod	178	152

25 mm BORDER
533 X 457 ROUTE SHIELD
ARROW 152UC-1L - 0°

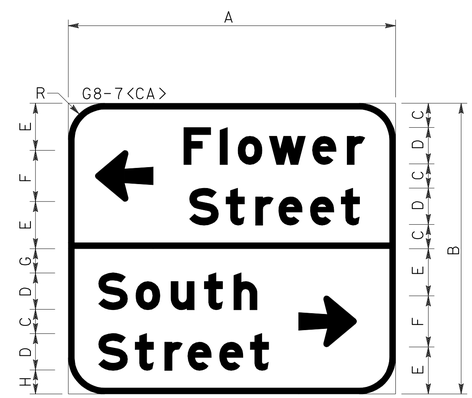
31-2



A	B	C	D	E	F	G	H	R
1372	1219	102	152E Mod	198	213	89	114	152

25 mm BORDER
ARROW 152UC-1L - 180°
ARROW 152UC-1L - 0°

31-6



A	B	C	D	E	F	G	H	R
1372	1219	102	152E Mod	198	213	89	114	152

25 mm BORDER
ARROW 152UC-1L - 180°
ARROW 152UC-1L - 0°

31-10

ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE SHOWN.

SIGN DETAILS

NO SCALE

SD-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 04-23-10 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 06:34

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	500	939

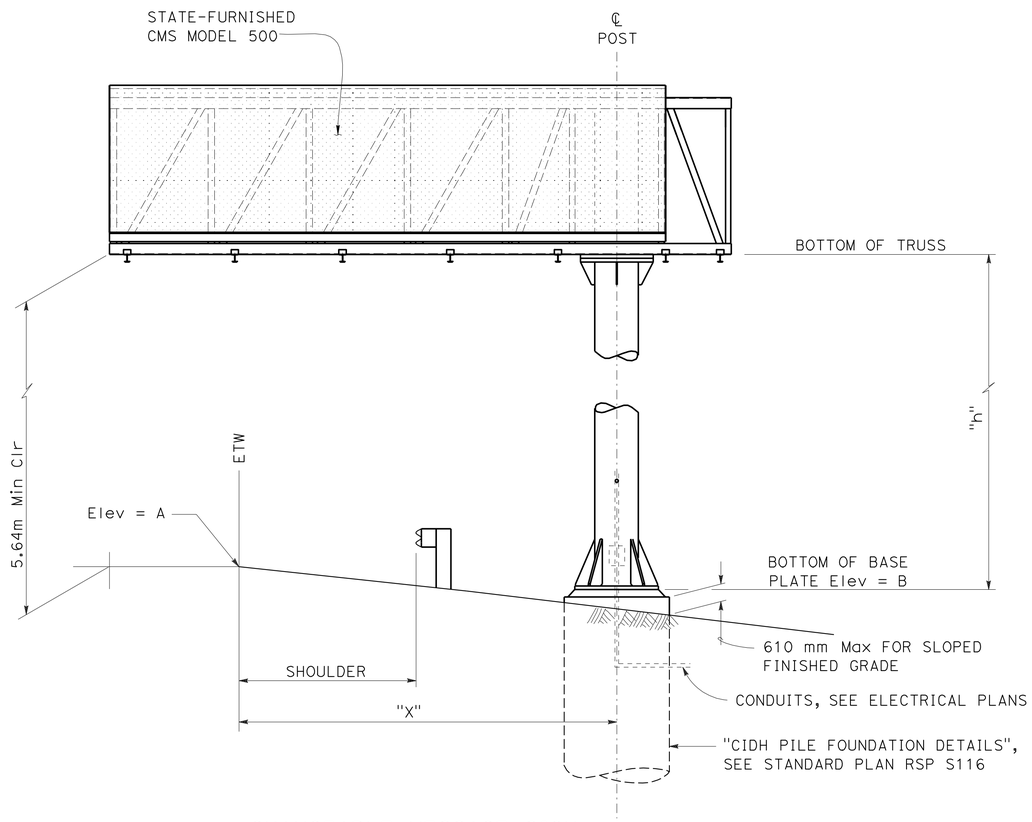
Caltrans Metric

Joyce K. Loftus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

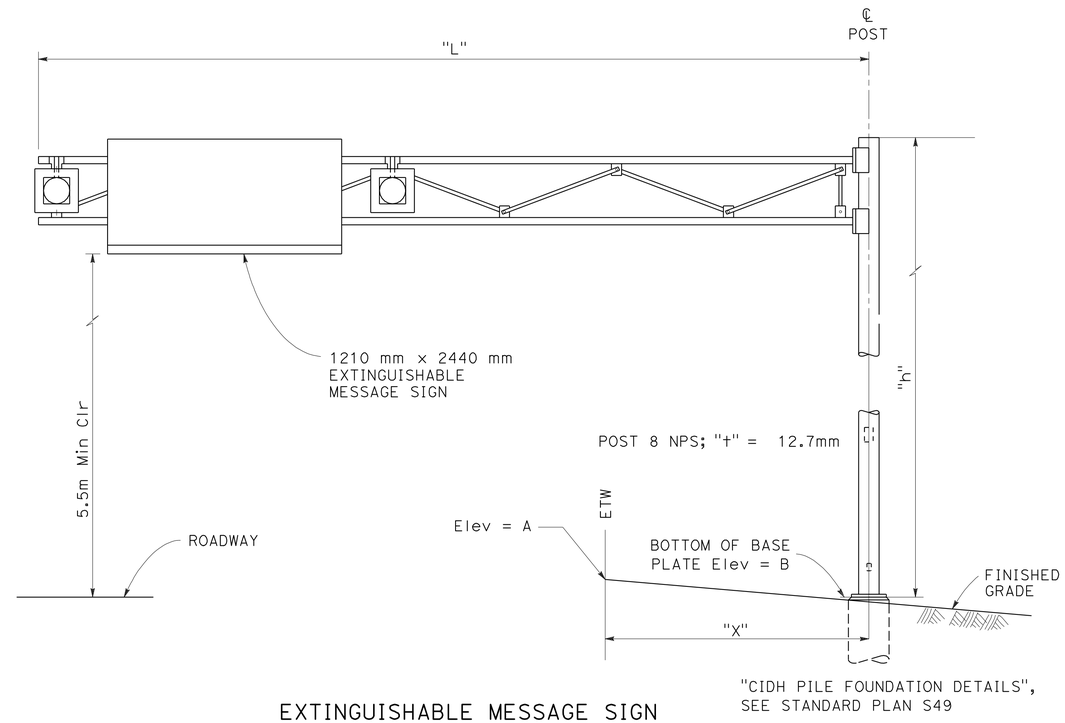
REGISTERED PROFESSIONAL ENGINEER Joyce K. Loftus No. 38426 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

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



CHANGEABLE MESSAGE SIGN

SEE STANDARD PLANS RSP S120 FOR ADDITIONAL INFORMATION



EXTINGUISHABLE MESSAGE SIGN

TYPE C-2 LIGHTWEIGHT

SEE STANDARD PLANS RSP ES-14C FOR ADDITIONAL INFORMATION

SIGN NUMBER	TYPE	MODEL	LOCATION STATION	"X" m	"h" m	"L" m	ASSUMED Elev A m	Elev B m
CMS-1	CMS UNBALANCED BUTTERFLY	500	"A" 97+20 FSBT	7.1	6.10	-	100.00	99.82
CMS-2	CMS UNBALANCED BUTTERFLY	500	"NW2" 185+70 FNBT	5.2	6.10	-	100.00	99.89
EMS-1	TYPE C-2 LIGHTWEIGHT	-	"A" 97+30 FNBT	5.3	5.74	7.11	100.00	100.21
EMS-2	TYPE C-2 LIGHTWEIGHT	-	"NW2" 185+25 FSBT	4.4	6.27	5.79	100.00	99.60

ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE SHOWN.

SIGN DETAILS

NO SCALE

SD-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: SHAUN A. RICE
CALCULATED-DESIGNED BY: JOYCE LOFTUS
CHECKED BY: JEFF JEWETT
REVISED BY
DATE REVISED

LAST REVISION 04-23-10
DATE PLOTTED => 28-JAN-2012
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