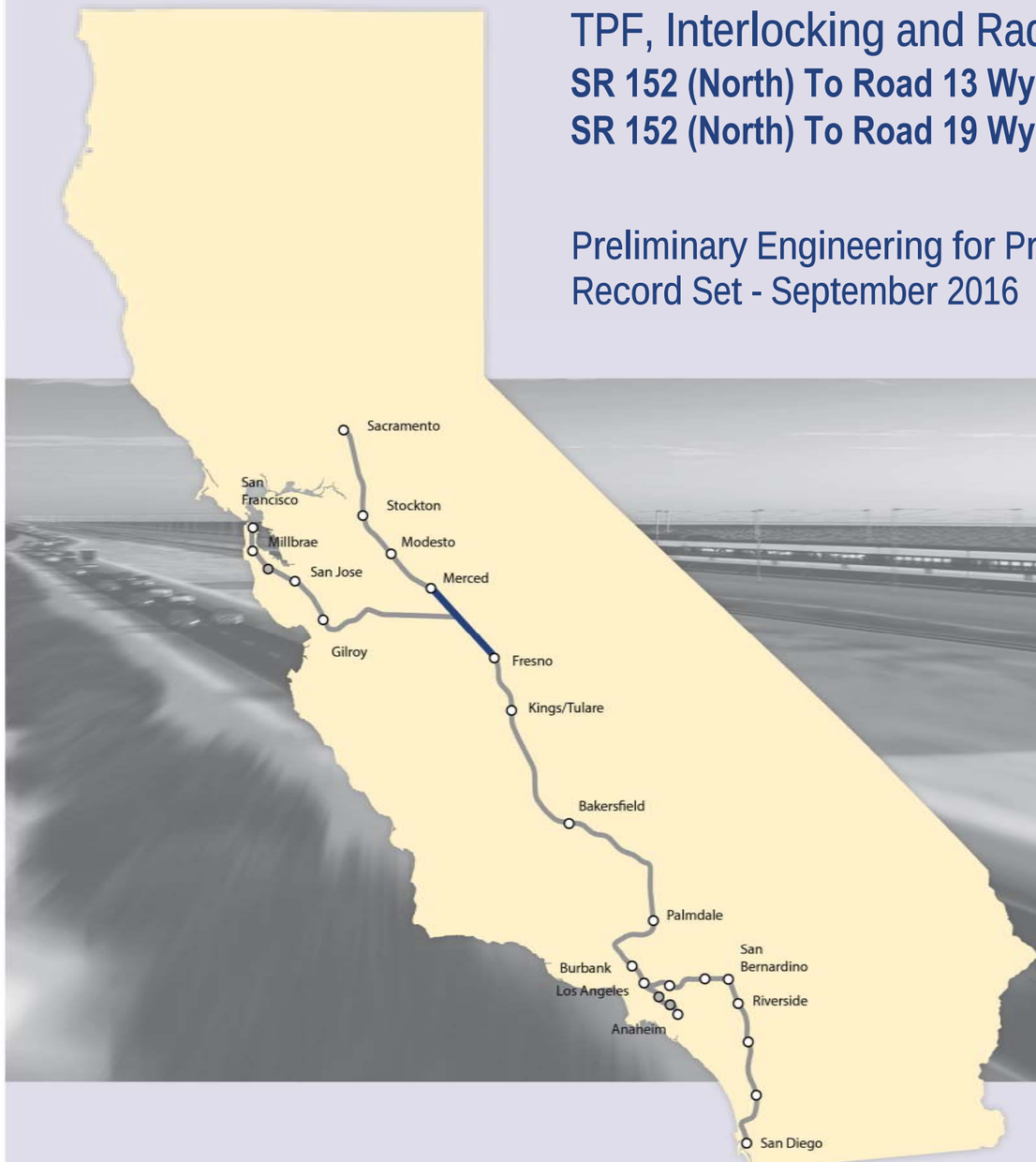
California High-Speed Rail Authority

Merced to Fresno Section: Central Valley Wye



TPF, Interlocking and Radio Site Plans **(Book 1 of 2)**

SR 152 (North) To Road 13 Wye Alternative
SR 152 (North) To Road 19 Wye Alternative

Preliminary Engineering for Project Definition
Record Set - September 2016

CALIFORNIA High-Speed Rail Authority

U.S. Department of Transportation
Federal Railroad Administration

INDEX OF DRAWINGS

DRAWING NO.	SECTION	ALIGNMENT / PLAN SET	TITLE	DESCRIPTION
GENERAL				
TP-B0001	CENTRAL VALLEY WYE	TPF, INTERLOCKING AND RADIO SITE PLANS	COVER	
TP-B0002	CENTRAL VALLEY WYE	TPF, INTERLOCKING AND RADIO SITE PLANS	INDEX OF DRAWINGS	SHEET 1 OF 5
TP-B0003	CENTRAL VALLEY WYE	TPF, INTERLOCKING AND RADIO SITE PLANS	INDEX OF DRAWINGS	SHEET 2 OF 5
TP-B0004	CENTRAL VALLEY WYE	TPF, INTERLOCKING AND RADIO SITE PLANS	INDEX OF DRAWINGS	SHEET 3 OF 5
TP-B0005	CENTRAL VALLEY WYE	TPF, INTERLOCKING AND RADIO SITE PLANS	INDEX OF DRAWINGS	SHEET 4 OF 5
TP-B0006	CENTRAL VALLEY WYE	TPF, INTERLOCKING AND RADIO SITE PLANS	INDEX OF DRAWINGS	SHEET 5 OF 5
TP-B0007	CENTRAL VALLEY WYE	TPF, INTERLOCKING AND RADIO SITE PLANS	ABBREVIATIONS	SHEET 1 OF 2
TP-B0008	CENTRAL VALLEY WYE	TPF, INTERLOCKING AND RADIO SITE PLANS	ABBREVIATIONS	SHEET 2 OF 2
TP-B4000	CENTRAL VALLEY WYE	TPF, INTERLOCKING AND RADIO SITE PLANS	LOCATION PLAN	
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE				
TP-B4001-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	SYSTEMS FACILITIES KEY PLAN	SHEET 1 OF 1
TP-01030-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION C4 ALTERNATE SITES 1 & 2
TP-01090-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SUBSTATION D (EL NIDO) ALTERNATE SITE 1
TP-01091-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SUBSTATION D (EL NIDO) ALTERNATE SITE 2
TP-01120-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D1 ALTERNATE SITES 1 & 2
TP-01160-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D2 ALTERNATE SITES 1 & 2
TP-01200-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION D ALTERNATE SITE 1
TP-01201-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION D ALTERNATE SITE 2
TP-01240-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D3 ALTERNATE SITE 1
TP-01241-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D3 ALTERNATE SITE 2
TP-01280-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D4 ALTERNATE SITES 1 & 2
TP-01320-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D5 ALTERNATE SITE 1
TP-01321-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D5 ALTERNATE SITE 2
TP-01430-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION E ALTERNATE SITES 1 & 2
TP-01480-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION E1 ALTERNATE SITE 1
TP-01490-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION E1 ALTERNATE SITE 2
TP-01520-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION E2 ALTERNATE SITE 1
TP-01530-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION E2 ALTERNATE SITE 2
TP-01630-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION F ALTERNATE SITE 1
TP-01631-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION F ALTERNATE SITE 2
CO-F1010-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 1 ALTERNATE SITES 1 & 2
CO-F1060-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 4 ALTERNATE SITES 1 & 2
CO-F1100-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 6 ALTERNATE SITES 1 & 2
CO-F1130-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 8 ALTERNATE SITE 1
CO-F1140-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 8 ALTERNATE SITE 2
CO-F1180-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 12 ALTERNATE SITES 1 & 2
CO-F1220-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 14 ALTERNATE SITES 1 & 2
CO-F1260-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 18 ALTERNATE SITE 1
CO-F1261-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 18 ALTERNATE SITE 2
CO-F1440-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE MF 2 ALTERNATE SITES 1 & 2
CO-F1500-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE MF 5 ALTERNATE SITES 1 & 2
CO-F1640-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJM 2 ALTERNATE SITES 1 & 2

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. LEMLEY
DRAWN BY J. ALADIN
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
TPF, INTERLOCKING AND RADIO SITE PLANS
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CONTRACT NO. HSR08-05
DRAWING NO. TP-B0002
SCALE NO SCALE
SHEET NO.

MF-TP-B0002.dgn 16-AUG-2016 04:22 p0042226

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TC-F1030-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D1 ALTERNATE SITE 2
TC-F1050-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D1 ALTERNATE SITE 1
TC-F1090-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D2 ALTERNATE SITE 1
TC-F1100-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D2 ALTERNATE SITE 2
TC-F1150-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6156+00
TC-F1151-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE E @ 6170+00
TC-F1160-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6190+00
TC-F1170-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE AA @ 6246+00
TC-F1171-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6267+00
TC-F1230-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6584+50
TC-F1231-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE AA @ 6603+00
TC-F1240-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6666+68 & SITE E @ 6678+50
TC-F1250-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6690+45
TC-F1310-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D3 ALTERNATE SITES 1 & 2
TC-F1460-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 15226+00
TC-F1461-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE AA @ 15247+50
TC-F1510-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 15535+00
TC-F1511-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE E @ 15550+50
TC-F1520-A	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 15569+00
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE				
TP-B4001-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	SYSTEMS FACILITIES KEY PLAN	SHEET 1 OF 1
TP-01030-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION C4 ALTERNATE SITES 1 & 2
TP-01090-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SUBSTATION D (EL NIDO) ALTERNATE SITE 1
TP-01091-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SUBSTATION D (EL NIDO) ALTERNATE SITE 2
TP-01130-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D1 ALTERNATE SITE 1
TP-01140-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D1 ALTERNATE SITE 2
TP-01190-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D2 ALTERNATE SITES 1 & 2
TP-01250-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION D ALTERNATE SITES 1 & 2
TP-01280-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D3 ALTERNATE SITES 1 & 2
TP-01320-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D4 ALTERNATE SITES 1 & 2
TP-01420-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION E ALTERNATE SITE 1
TP-01430-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION E ALTERNATE SITE 2
TP-01470-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION E1 ALTERNATE SITES 1 & 2
TP-01510-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION E2 ALTERNATE SITES 1 & 2
TP-01540-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SUBSTATION E (SANDY MUSH) ALTERNATE SITE 1
TP-01541-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SUBSTATION E (SANDY MUSH) ALTERNATE SITE 2
TP-01630-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION F ALTERNATE SITES 1 & 2
ME-S1540-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	MECHANICAL FACILITY SITE PLAN	PORTAL VENTILATION SITE @ 15443+00
CO-F1010-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 1 ALTERNATE SITES 1 & 2
CO-F1060-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 4 ALTERNATE SITES 1 & 2
CO-F1100-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 6 ALTERNATE SITE 1
CO-F1110-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 6 ALTERNATE SITE 2

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CO-F1290-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 17 ALTERNATE SITE 1
CO-F1300-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 17 ALTERNATE SITE 2
CO-F1520-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE MF 7 ALTERNATE SITE 1
CO-F1530-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE MF 7 ALTERNATE SITE 2
TC-F1030-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D1 ALTERNATE SITE 2
TC-F1050-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D1 ALTERNATE SITE 1
TC-F1120-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D2 ALTERNATE SITES 1 & 2
TC-F1200-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6416+00
TC-F1201-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE E @ 6430+00
TC-F1202-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6449+00
TC-F1230-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE AA @ 6570+00
TC-F1231-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6591+65
TC-F1260-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D3 ALTERNATE SITES 1 & 2
TC-F1270-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6846+80
TC-F1280-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE AA @ 6868+50
TC-F1310-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 7066+00
TC-F1320-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE E ALT 1 @ 7075+50 & ALT 2 @ 7079+50
TC-F1321-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 7099+00
TC-F1430-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D4 ALTERNATE SITE 1
TC-F1431-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D4 ALTERNATE SITE 2
TC-F1450-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 14958+30
TC-F1451-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE AA @ 14980+00
TC-F1490-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 15180+00
TC-F1491-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE E @ 15197+00
TC-F1500-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 15221+00
TC-F1560-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D5 ALTERNATE SITE 1
TC-F1570-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D5 ALTERNATE SITE 2
TC-F1640-B	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D6 ALTERNATE SITES 1 & 2
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE				
TP-B4001-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	SYSTEMS FACILITIES KEY PLAN	SHEET 1 OF 1
TP-01030-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION C4 ALTERNATE SITES 1 & 2
TP-01090-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SUBSTATION D (EL NIDO) ALTERNATE SITES 1 & 2
TP-01120-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D1 ALTERNATE SITE 1
TP-01130-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D1 ALTERNATE SITE 2
TP-01160-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D2 ALTERNATE SITE 1
TP-01161-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D2 ALTERNATE SITE 2
TP-01210-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION D ALTERNATE SITES 1 & 2
TP-01260-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D3 ALTERNATE SITE 1
TP-01261-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D3 ALTERNATE SITE 2
TP-01310-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D4 ALTERNATE SITE 1
TP-01311-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D4 ALTERNATE SITE 2
TP-01430-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION E ALTERNATE SITE 1

INDEX OF DRAWINGS

DRAWING NO.	SECTION	ALIGNMENT / PLAN SET	TITLE	DESCRIPTION
TP-01431-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION E ALTERNATE SITE 2
TP-01480-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION E1 ALTERNATE SITE 1
TP-01481-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION E1 ALTERNATE SITE 2
TP-01530-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION E2 ALTERNATE SITE 1
TP-01540-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION E2 ALTERNATE SITE 2
TP-01630-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION F ALTERNATE SITES 1 & 2
CO-F1010-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 1 ALTERNATE SITES 1 & 2
CO-F1060-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 3 ALTERNATE SITES 1 & 2
CO-F1150-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 7 ALTERNATE SITE 1
CO-F1151-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 7 ALTERNATE SITE 2
CO-F1200-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 10 ALTERNATE SITES 1 & 2
CO-F1220-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 12 ALTERNATE SITES 1 & 2
CO-F1500-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE MF 4 ALTERNATE SITE 1
CO-F1501-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE MF 4 ALTERNATE SITE 2
TC-F1030-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D1 ALTERNATE SITES 1 & 2
TC-F1110-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	TRAIN CONTROL SITE D2 ALTERNATE SITE 1
TC-F1111-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	TRAIN CONTROL SITE D2 ALTERNATE SITE 2
TC-F1170-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6242+00
TC-F1171-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE AA @ 6270+00
TC-F1172-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6290+00
TC-F1230-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6603+50
TC-F1240-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE AA @ 6625+00 & SITE B @ 6631+61.4
TC-F1241-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE E @ 6650+00
TC-F1242-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6664+40
TC-F1290-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D3 ALTERNATE SITES 1 & 2
TC-F1460-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 15121+50
TC-F1461-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE AA @ 15143+00
TC-F1462-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 15170+73
TC-F1520-C	CENTRAL VALLEY WYE	AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D4 ALTERNATE SITES 1 & 2
SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE				
TP-B4001-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	SYSTEMS FACILITIES KEY PLAN	SHEET 1 OF 1
TP-01030-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION C4 ALTERNATE SITES 1 & 2
TP-01090-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SUBSTATION D (EL NIDO) ALTERNATE SITE 1
TP-01091-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SUBSTATION D (EL NIDO) ALTERNATE SITE 2
TP-01130-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D1 ALTERNATE SITES 1 & 2
TP-01190-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION D ALTERNATE SITE 1
TP-01191-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION D ALTERNATE SITE 2
TP-01230-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D2 ALTERNATE SITES 1 & 2
TP-01270-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D3 ALTERNATE SITES 1 & 2
TP-01320-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D4 ALTERNATE SITE 1
TP-01321-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION D4 ALTERNATE SITE 2
TP-01440-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION E ALTERNATE SITES 1 & 2
TP-01480-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION E1 ALTERNATE SITES 1 & 2

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. MA
DRAWN BY B. MCINNIS
CHECKED BY ECASTELINO
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
TPF, INTERLOCKING AND RADIO SITE PLANS
INDEX OF DRAWINGS
SHEET 4 OF 5

CONTRACT NO. HSR08-05
DRAWING NO. TP-B0005
SCALE NO SCALE
SHEET NO.

MF-TP-B0005.dgn 12-AUG-2016 20:06 p0042226

INDEX OF DRAWINGS

DRAWING NO.	SECTION	ALIGNMENT / PLAN SET	TITLE	DESCRIPTION
TP-01510-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION E2 ALTERNATE SITE 1
TP-01520-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	PARALLELING STATION E2 ALTERNATE SITE 2
TP-01640-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	TRACTION POWER FACILITY SITE PLAN	SWITCHING STATION F ALTERNATE SITES 1 & 2
CO-F1010-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 1 ALTERNATE SITES 1 & 2
CO-F1060-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 4 ALTERNATE SITES 1 & 2
CO-F1110-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 7 ALTERNATE SITE 1
CO-F1111-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 7 ALTERNATE SITE 2
CO-F1160-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 11 ALTERNATE SITES 1 & 2
CO-F1200-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 13 ALTERNATE SITES 1 & 2
CO-F1250-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 17 ALTERNATE SITES 1 & 2
CO-F1310-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 20 ALTERNATE SITE 1
CO-F1311-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE SJF 20 ALTERNATE SITE 2
CO-F1460-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE MF 2 ALTERNATE SITES 1 & 2
CO-F1490-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE MF 6 ALTERNATE SITE 1
CO-F1500-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	COMMUNICATIONS SYSTEM SITE PLAN	STANDALONE RADIO SITE MF 6 ALTERNATE SITE 2
TC-F1030-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D1 ALTERNATE SITE 2
TC-F1050-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D1 ALTERNATE SITE 1
TC-F1090-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D2 ALTERNATE SITES 1 & 2
TC-F1140-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6083+15
TC-F1141-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE E @ 6099+00
TC-F1142-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6114+14
TC-F1150-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE AA @ 6128+15
TC-F1151-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6156+00
TC-F1200-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6455+00
TC-F1210-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE AA @ 6477+00
TC-F1211-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6494+00 & SITE E @ 6503+00
TC-F1220-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 6524+00
TC-F1280-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D3 ALTERNATE SITES 1 & 2
TC-F1460-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 15294+00
TC-F1461-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE AA @ 15317+00
TC-F1470-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 15344+15
TC-F1471-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE E @ 15360+00
TC-F1472-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	INTERLOCKING SITE B @ 15374+15
TC-F1520-D	CENTRAL VALLEY WYE	SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE	AUTOMATIC TRAIN CONTROL SITE PLAN	TRAIN CONTROL SITE D4 ALTERNATE SITES 1 & 2

A

AB	AGGREGATE BASE
ABBC	ASBESTOS BONDED BITUMINOUS COATED
ABM	AIR-BLOWN MORTAR
ABN	ABANDON
ABUT	ABUTMENT
AC	ASPHALT CONCRETE
ACB	ASPHALT CONCRETE BASE
ACP	ASBESTOS CEMENT PIPE
ADL	ADDED DEAD LOAD
ADJ	ADJUST
AFES	ALTERNATIVE FLARED END SECTION
AHD	AHEAD
ALT	ALTERNATE
AM	TIME FROM MIDNIGHT TO NOON
AP	ALTERNATIVE PIPE
APC	ALTERNATIVE PIPE CULVERT
APPROX	APPROXIMATE
APU	ALTERNATIVE PIPE UNDERDRAIN
AR	ACCESS RESTRICTION
ARS	ACCELERATION RESPONSE SPECTRUM
AS	AGGREGATE SUBBASE
ASRP	ALUMINUM SPIRAL RIB PIPE
ASSY	ASSEMBLY
ATC	AUTOMATIC TRAIN CONTROL
ATPB	ASPHALT TREATED PERMEABLE BASE
ATPM	ASPHALT TREATED PERMEABLE MATERIAL
AUTHORITY	CALIFORNIA HIGH-SPEED RAIL AUTHORITY
AVE	AVENUE
AVG	AVERAGE
@	AT

B

BAGR	BRIDGE APPROACH GUARD RAILING
BB	BEGINNING OF BRIDGE
B-B	BACK-TO-BACK
BC	BEGIN HORIZONTAL CURVE
BCR	BEGIN CURB RETURN
BEG	BEGIN
BIT CTD	BITUMINOUS COATED
BK	BACK
BKF	BACKFILL
BLDG	BUILDING
BLM	BRIDGE-LOG MILE
BLVD	BOULEVARD
BM	BENCH MARK
BOT	BOTTOM
BNSF	BNSF RAILWAY
BR	BRIDGE
BRG	BEARING
BT	BEGIN TUNNEL
BTU	BRITISH THERMAL UNIT
BVC	BEGIN VERTICAL CURVE
BW	BARBED WIRE

C

CAA	CABLE ANCHOR ASSEMBLY
CAP	CORRUGATED ALUMINUM PIPE
CAPA	CORRUGATED ALUMINUM PIPE ARCH
CAS	CONSTRUCTION AREA SIGN
CB	CONCRETE BARRIER
CBW	CONCRETE BLOCK WALL
C-C	CENTER TO CENTER
CHSRA	CALIFORNIA HIGH-SPEED RAIL AUTHORITY (SEE AUTHORITY)
CHSR	CALIFORNIA HIGH-SPEED RAIL
CHST	CALIFORNIA HIGH-SPEED TRAIN
CG	CENTER OF GRAVITY
CHNL	CHANNEL
CI	CAST IRON
CIDH	CAST-IN-DRILLED-HOLE
CIP	CAST-IN-PLACE, CAST IRON PIPE
CIPCP	CAST-IN-PLACE CONCRETE PIPE
CISS	CAST-IN-STEEL SHELL
CJP	COMPLETE JOINT PENETRATION
CL	CHAIN LINK, CLASS
CL-6	CHAIN LINK FENCE (6 FT)
CLR	CLEAR, CLEARANCE
CM	CORRUGATED METAL
CMP	CORRUGATED METAL PIPE
CO	COUNTY
COL	COLUMN
CONC	CONCRETE
COND	CONDUIT
CONN	CONNECTOR
CONST	CONSTRUCT, CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CP	CANDLEPOWER
CP1	CONSTRUCTION PACKAGE 1
CR	CREEK
CRCP	CONTINUOUS REINFORCED CONCRETE PAVEMENT
CRSP	CONCRETED ROCK SLOPE PROTECTION
CRZ	CLEAR RECOVERY ZONE
CS	CURVE SPIRAL POINT
CSP	CORRUGATED STEEL PIPE
CSPA	CORRUGATED STEEL PIPE ARCH
CTB	CEMENT TREATED BASE
CTPB	CEMENT TREATED PERMEABLE BASE
CTPM	CEMENT TREATED PERMEABLE MATERIAL
CTRS	CENTERS
CULV	CULVERT
℄	CENTERLINE

D

D	DEPTH
DD	DOWNDRAIN
DBL	DOUBLE
DEG	DEGREE
DEL	DELINEATOR

D CONTINUED

DET	DETAIL, DETOUR
DF	DOUGLAS FIR, DIRECT FIXATION
DI	DRAINAGE INLET, DROP INLET
DIA	DIAMETER
DIAPH	DIAPHRAGM
DIST	DISTANCE, DISTRICT
DMBB	DOUBLE METAL BEAM BARRIER
DR	DRIVE
DTBB	DOUBLE THRIE BEAM BARRIER
DWY	DRIVEWAY

E

E	EAST
EA	ACTUAL SUPERELEVATION
EASE	EASEMENT
EB	END OF BRIDGE, EASTBOUND
EC	END HORIZONTAL CURVE
ECR	END CURB RETURN
ED	EDGE DRAIN
EDC	EDGE DRAIN CLEANOUT
EDO	EDGE DRAIN OUTLET
EDV	EDGE DRAIN VENT
ELEC	ELECTROLIER
ELECT	ELECTRIC
ELEV	ELEVATION
EMB	EMBANKMENT
ENGR	ENGINEER
EOD	EDGE OF DECK
EP	EDGE OF PAVEMENT
EQ	EQUATION
ES	EDGE OF SHOULDER
ET	END TUNNEL
ETW	EDGE OF TRAVELED WAY
EU	UNBALANCED SUPERELEVATION
EVC	END VERTICAL CURVE
EW	ENDWALL
EXC	EXCAVATION
EXIST, (E)	EXISTING
EXP	EXPANSION, EXPRESSWAY
EXP JT	EXPANSION JOINT
EXT	EXTERIOR

F

F & C	FRAME AND COVER
F & G	FRAME AND GRATE
FB	FLOOR BEAM
FDN	FOUNDATION
FEBT	FACING EASTBOUND TRAFFIC
FES	FLARED END SECTION
FF	FILTER FABRIC
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIG	FIGURE
FL	FLOW LINE

F CONTINUED

FNTB	FACING NORTHBOUND TRAFFIC
FOB	FREE ON BOARD
FOC	FACE OF CONCRETE
FR RD	FRONTAGE ROAD
FRE	FRESNO
FS	FAR SIDE, FINISHED SURFACE
FSBT	FACING SOUTHBOUND TRAFFIC
FTG	FOOTING
FWBT	FACING WESTBOUND TRAFFIC
FWY	FREEWAY

G

G	GRADE, ACCELERATION DUE TO GRAVITY
GA	GAGE
GALV	GALVANIZED
GP	GRADING PLANE
GR	GUARD RAILING
GRDR	GIRDER
GSP	GALVANIZED STEEL PIPE
GTR	GUTTER

H

H	HEIGHT
H, HR	HOUR
HD	HORIZONTAL DRAIN
HDWL	HEADWALL
HEX HD	HEXAGONAL HEAD
HMA	HOT MIXED ASPHALT
HORIZ	HORIZONTAL
HP	HINGE POINT, HORSEPOWER
HPS	HIGH PERFORMANCE STEEL
HS	HIGH STRENGTH
HSR	HIGH-SPEED RAIL
HST	HIGH-SPEED TRAIN
HW	HEADWALL, 100-YR HIGH WATER (UNLESS NOTED OTHERWISE)
HWM	HIGH WATER MARK
HWY	HIGHWAY

I

IB	IMPORTED BORROW
ID	INSIDE DIAMETER
IF	INSIDE FACE
INT	INTERIOR
INV	INVERT
IRR	IRRIGATION
IS	INTERLOCKING SITE

J

JCT	JUNCTION
JP	JOINT POLE
JPCP	JOINTED PLAIN CONCRETE PAVEMENT

J CONTINUED

JS	JUNCTION STRUCTURE
JT	JOINT

L

L	LENGTH
LAT	LATITUDE
LCB	LEAN CONCRETE BASE
LLT	LAST LONG TIE
LN	LANE
LOC	LOCATION
LOL	LAYOUT LINE
LONG	LONGITUDE
LONGIT	LONGITUDINAL
LS	LUMP SUM, LENGTH OF SPIRAL
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE

M

MAINT	MAINTENANCE
MAX	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
MED	MEDIAN
MER	MERCED
MF	MERCED TO FRESNO
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MISC I & S	MISCELLANEOUS IRON AND STEEL
MKR	MARKER
MOD	MODIFIED, MODIFY
MON	MONUMENT
MOW	MAINTENANCE-OF-WAY FACILITY
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MPH	MILES PER HOUR
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EARTH
MTL	MATERIAL

N

N	NORTH
NB	NORTHBOUND
NC	NORMAL CROWN
NIC	NOT IN CONTRACT
NO.	NUMBER (MUST HAVE PERIOD)
NOS.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NTS	NOT TO SCALE

O

OBLR	OBLITERATE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. LEMLEY
DRAWN BY J. KIDWELL
CHECKED BY A. M.
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
TPF, INTERLOCKING AND RADIO SITE PLANS
ABBREVIATIONS
SHEET 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. TP-B0007
SCALE NO SCALE
SHEET NO.

MF-TP-B0007.dgn 15-AUG-2016 17:49 p005133a

O CONTINUED

OC	OVERCROSSING
OCS	OVERHEAD CONTACT SYSTEM
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OH	OVERHEAD
O-O	OUT TO OUT
OPP	OPPOSITE

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX, PHASE BREAK
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PED	PEDESTRIAN
PED OC	PEDESTRIAN OVERCROSSING
PED UC	PEDESTRIAN UNDERCROSSING
PERM MTL	PERMEABLE MATERIAL
PG	PROFILE GRADE
PG&E	PACIFIC GAS AND ELECTRIC
PI	POINT OF INTERSECTION
PITO	POINT OF INTERSECTION TURNOUT
PJP	PARTIAL JOINT PENETRATION
℄, PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POB	POINT OF BEGINNING
POC	POINT OF HORIZONTAL CURVE
POE	POINT OF END
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	POINT OF SWITCH, PRESTRESSED, PARALLELING STATION
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE, POINT OF VERTICAL CURVE

P CONTINUED

PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENT

Q

QTY	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
REINF	REINFORCED, REINFORCEMENT, REINFORCING
REL	RELOCATE
REPL	REPLACEMENT
RET	RETAINING
REV	REVISED
RDWY	ROADWAY
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION
RT	RIGHT
RTE	ROUTE
RW	REDWOOD, RETAINING WALL
R/W	RIGHT-OF-WAY
RWY	RAILWAY

S

S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
SALV	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION, SPIRAL CURVE POINT
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
SEC	SECOND, SECTION
SEP	SEPARATION
SG	SUBGRADE
SHLD	SHOULDER
SHT	SHEET
SIM	SIMILAR
SJD	SAN JOSE DIRIDON STATION

S CONTINUED

SJM	SAN JOSE TO MERCED
SJV	SAN JOAQUIN VALLEY
S	STATION LINE
SM	SELECTED MATERIAL
SPEC	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SR	STATE ROUTE
SRS	STANDALONE RADIO SITE
SS	SLOPE STAKE, SUBSTATION
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
ST	STREET, SPIRAL TANGENT POINT
STA	STATION
STBB	SINGLE THRIE BEAM BARRIER
STD	STANDARD
STR	STRUCTURE
SURF	SURFACING
SW	SIDEWALK, SOUND WALL
SWR	SEWER
SWS	SWITCHING STATION
SYM	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
TAB	TABLET
TAN	TANGENT
TBB	THRIE BEAM BARRIER
TBD	TO BE DETERMINED
TBR	TIMBER
TC	TOP OF CURB, TRAIN CONTROL
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
TEL	TELEPHONE
TEMP	TEMPORARY
TG	TOP OF GRADE
TM	TECHNICAL MEMORANDUM
TO	TURNOUT
TOT	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPF	TRACTION POWER FACILITY
TPM	TREATED PERMEABLE MATERIAL
TPSS	TRACTION POWER SUBSTATION
T/R	TOP OF RAIL
TRANS	TRANSITION
TRK	TRACK

T CONTINUED

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL, TANGENT SPIRAL POINT
TYP	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
UPRR	UNION PACIFIC RAILROAD
UXO	UNIVERSAL CROSSOVER

V

V	DESIGN SPEED, VALVE
VAR	VARIABLE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VIA	VIADUCT
VOL	VOLUME

W

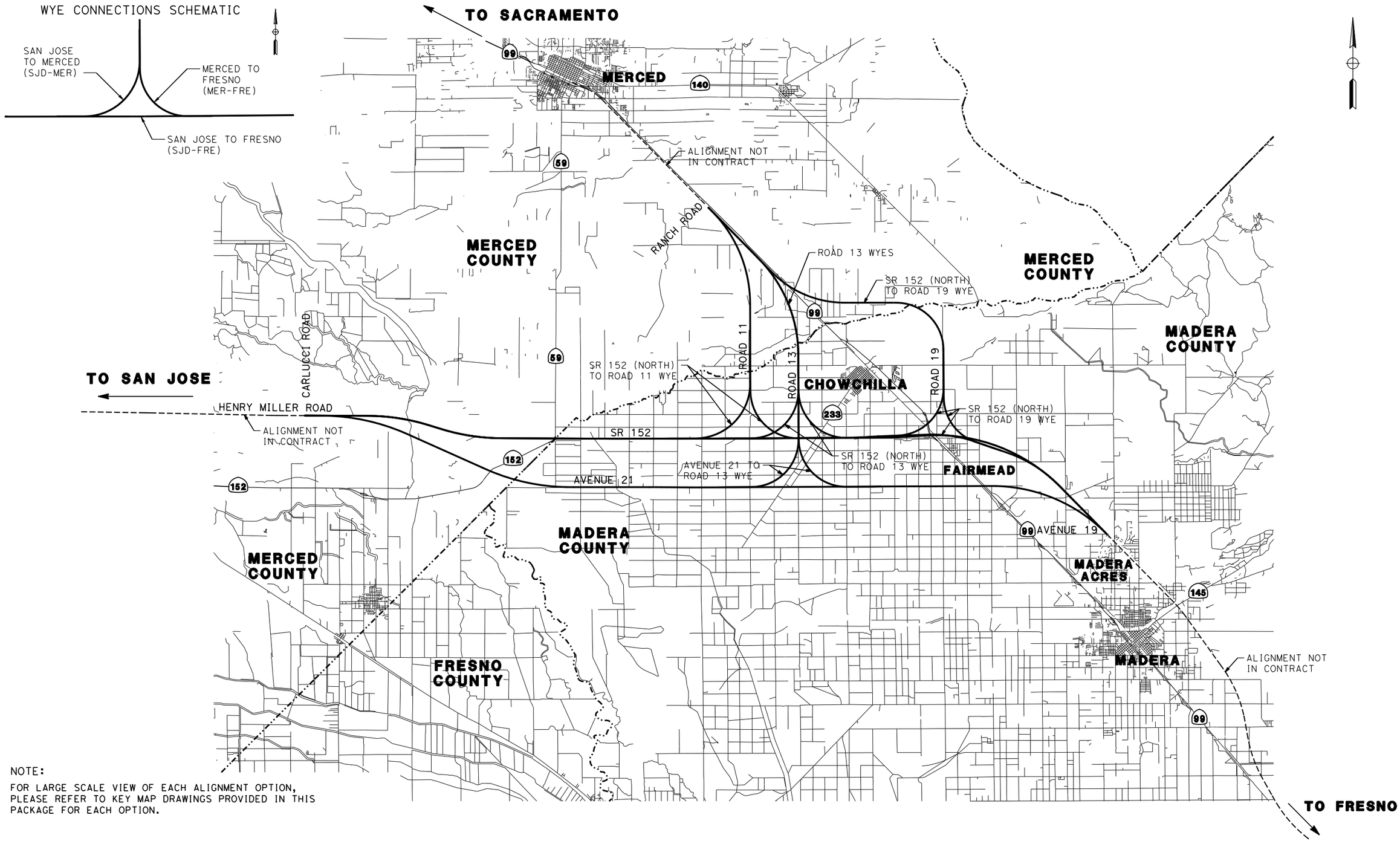
W	WEST, WIDTH
WB	WESTBOUND
WCB	WORLD COORDINATE BEARING
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
WT	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X SEC	CROSS SECTION
XING	CROSSING
XO	CROSSOVER

Y

YR	YEAR
YRS	YEARS



NOTE:

FOR LARGE SCALE VIEW OF EACH ALIGNMENT OPTION, PLEASE REFER TO KEY MAP DRAWINGS PROVIDED IN THIS PACKAGE FOR EACH OPTION.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. LEMLEY
DRAWN BY J. KIDWELL
CHECKED BY A. M.
IN CHARGE C. LEMLEY
DATE 08/12/2016

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
TPF, INTERLOCKING AND RADIO SITE PLANS
LOCATION PLAN

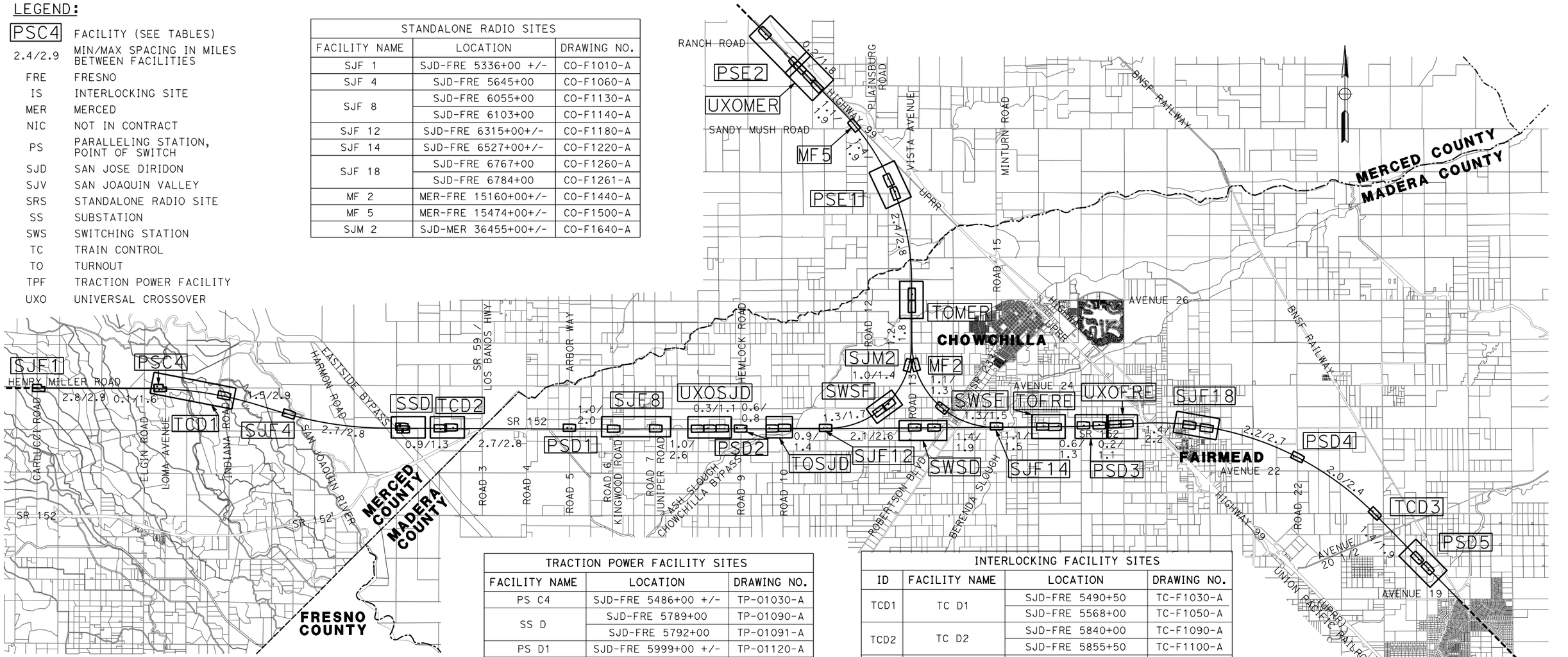
CONTRACT NO. HSR08-05
DRAWING NO. TP-B4000
SCALE NTS
SHEET NO.

MF-TP-B4000.dgn 15-AUG-2016 14:56 p005133a

LEGEND:

PSC4	FACILITY (SEE TABLES)
2.4/2.9	MIN/MAX SPACING IN MILES BETWEEN FACILITIES
FRE	FRESNO
IS	INTERLOCKING SITE
MER	MERCED
NIC	NOT IN CONTRACT
PS	PARALLELING STATION, POINT OF SWITCH
SJD	SAN JOSE DIRIDON
SJV	SAN JOAQUIN VALLEY
SRS	STANDALONE RADIO SITE
SS	SUBSTATION
SWS	SWITCHING STATION
TC	TRAIN CONTROL
TO	TURNOUT
TPF	TRACTION POWER FACILITY
UXO	UNIVERSAL CROSSOVER

STANDALONE RADIO SITES		
FACILITY NAME	LOCATION	DRAWING NO.
SJF 1	SJD-FRE 5336+00 +/-	CO-F1010-A
SJF 4	SJD-FRE 5645+00	CO-F1060-A
SJF 8	SJD-FRE 6055+00	CO-F1130-A
	SJD-FRE 6103+00	CO-F1140-A
SJF 12	SJD-FRE 6315+00+/-	CO-F1180-A
SJF 14	SJD-FRE 6527+00+/-	CO-F1220-A
SJF 18	SJD-FRE 6767+00	CO-F1260-A
	SJD-FRE 6784+00	CO-F1261-A
MF 2	MER-FRE 15160+00+/-	CO-F1440-A
MF 5	MER-FRE 15474+00+/-	CO-F1500-A
SJM 2	SJD-MER 36455+00+/-	CO-F1640-A



CROSSOVER SPACING TABLE			
ID	PS TO PS (STATION)	MPH	DISTANCE TO PREVIOUS (MI)
UXO SJV	5114+03 TO 5156+81	110	NIC
UXO SJD	6157+00 TO 6190+00	110	18.94 (UXO SJV)
UXO FRE	6666+68 TO 6691+45	110	9.03 (UXO SJD) & 12.35 (UXO MER)
UXO MER	15535+29 TO 15569+00	110	12.13 (UXO SJD) & 12.35 (UXO FRE)

TURNOUT SPACING TABLE			
ID	PS (STATION)	MPH	DISTANCE TO NEAREST XO/UXO (MI)
TO SJD	SJD-FRE 6246+00	150	1.06 (UXO SJD)
TO FRE	SJD-FRE 6603+00	150	1.21 (UXO FRE)
TO MER	MER-FRE 15247+44	150	5.45 (UXO MER)

TRACTION POWER FACILITY SITES		
FACILITY NAME	LOCATION	DRAWING NO.
PS C4	SJD-FRE 5486+00 +/-	TP-01030-A
SS D	SJD-FRE 5789+00	TP-01090-A
	SJD-FRE 5792+00	TP-01091-A
PS D1	SJD-FRE 5999+00 +/-	TP-01120-A
PS D2	SJD-FRE 6211+00 +/-	TP-01160-A
SWS D	SJD-FRE 6428+00	TP-01200-A
	SJD-FRE 6450+00	TP-01201-A
PS D3	SJD-FRE 6634+00	TP-01240-A
	SJD-FRE 6654+00	TP-01241-A
PS D4	SJD-FRE 6906+00+/-	TP-01280-A
PS D5	SJD-FRE 7102+00	TP-01320-A
	SJD-FRE 7120+00	TP-01321-A
SWS E	MER-FRE 15096+00+/-	TP-01430-A
PS E1	MER-FRE 15376+50	TP-01480-A
	MER-FRE 15394+00	TP-01490-A
PS E2	MER-FRE 15580+00	TP-01520-A
	MER-FRE 15630+00	TP-01530-A
SWS F	SJD-MER 36384+00	TP-01630-A
	SJD-MER 36401+00	TP-01631-A

INTERLOCKING FACILITY SITES			
ID	FACILITY NAME	LOCATION	DRAWING NO.
TCD1	TC D1	SJD-FRE 5490+50	TC-F1030-A
		SJD-FRE 5568+00	TC-F1050-A
TCD2	TC D2	SJD-FRE 5840+00	TC-F1090-A
		SJD-FRE 5855+50	TC-F1100-A
UXO SJD	IS B	SJD-FRE 6156+00	TC-F1150-A
	IS E	SJD-FRE 6170+00	TC-F1151-A
	IS B	SJD-FRE 6190+00	TC-F1160-A
TO SJD	IS AA	SJD-FRE 6246+00	TC-F1170-A
	IS B	SJD-FRE 6267+00	TC-F1171-A
TO FRE	IS B	SJD-FRE 6584+50	TC-F1230-A
	IS AA	SJD-FRE 6603+00	TC-F1231-A
UXO FRE	IS B	SJD-FRE 6666+68	TC-F1240-A
	IS E	SJD-FRE 6678+50	
	IS B	SJD-FRE 6690+45	TC-F1250-A
TCD3	TC D3	SJD-FRE 7024+00 +/-	TC-F1310-A
TO MER	IS B	MER-FRE 15226+00	TC-F1460-A
	IS AA	MER-FRE 15247+50	TC-F1461-A
UXO MER	IS B	MER-FRE 15535+00	TC-F1510-A
	IS E	MER-FRE 15550+50	TC-F1511-A
	IS B	MER-FRE 15569+00	TC-F1520-A

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

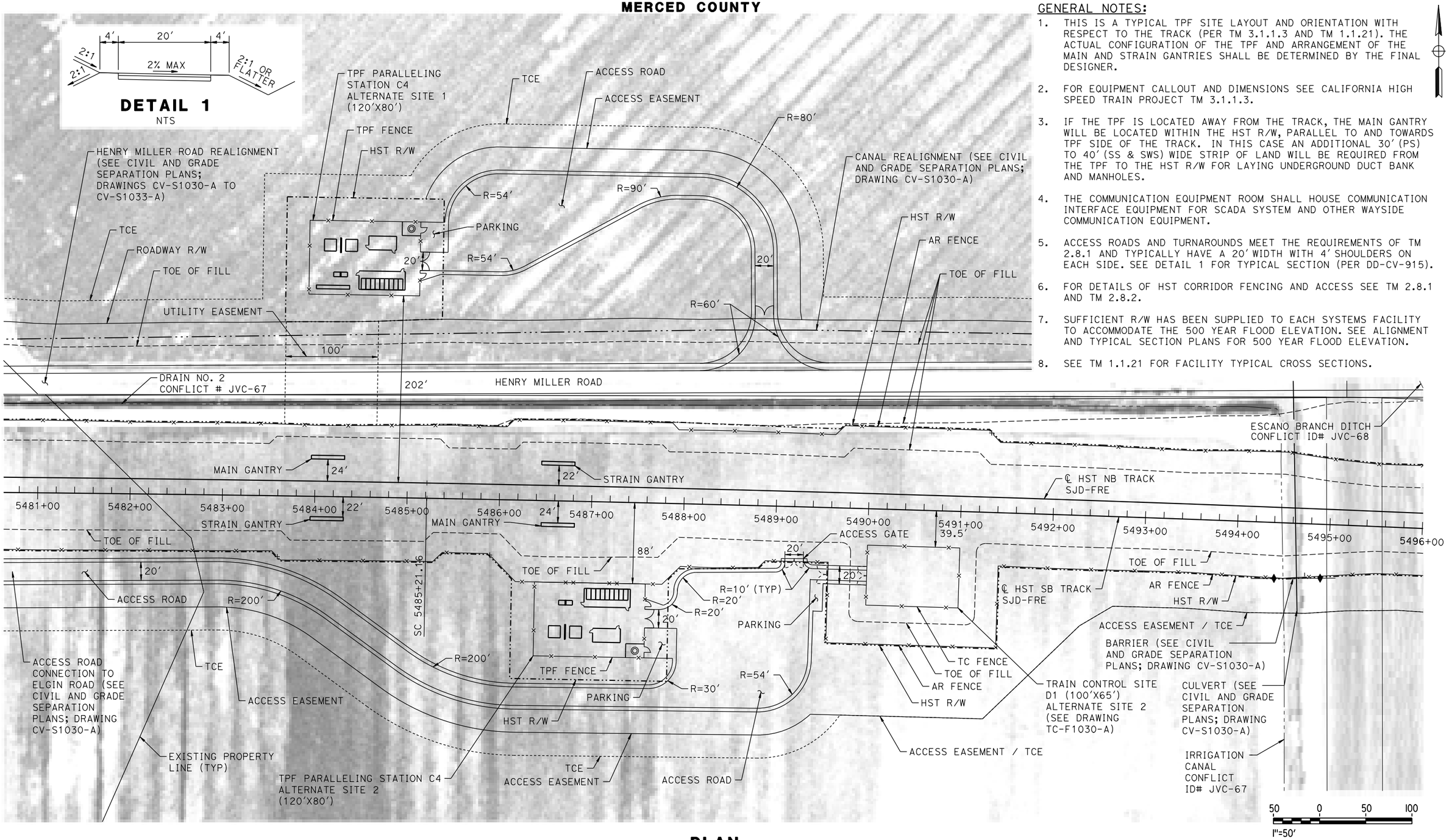
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
SYSTEMS FACILITIES KEY PLAN
SHEET 1 OF 1

CONTRACT NO. HSR08-05
DRAWING NO. TP-B4001-A
SCALE AS SHOWN
SHEET NO.

MF-TP-B4001-A.dgn
31-AUG-2016 15:21
p0042226

MERCED COUNTY



PLAN

GENERAL NOTES:

1. THIS IS A TYPICAL TPF SITE LAYOUT AND ORIENTATION WITH RESPECT TO THE TRACK (PER TM 3.1.1.3 AND TM 1.1.21). THE ACTUAL CONFIGURATION OF THE TPF AND ARRANGEMENT OF THE MAIN AND STRAIN GANTRIES SHALL BE DETERMINED BY THE FINAL DESIGNER.
2. FOR EQUIPMENT CALLOUT AND DIMENSIONS SEE CALIFORNIA HIGH SPEED TRAIN PROJECT TM 3.1.1.3.
3. IF THE TPF IS LOCATED AWAY FROM THE TRACK, THE MAIN GANTRY WILL BE LOCATED WITHIN THE HST R/W, PARALLEL TO AND TOWARDS TPF SIDE OF THE TRACK. IN THIS CASE AN ADDITIONAL 30' (PS) TO 40' (SS & SWS) WIDE STRIP OF LAND WILL BE REQUIRED FROM THE TPF TO THE HST R/W FOR LAYING UNDERGROUND DUCT BANK AND MANHOLES.
4. THE COMMUNICATION EQUIPMENT ROOM SHALL HOUSE COMMUNICATION INTERFACE EQUIPMENT FOR SCADA SYSTEM AND OTHER WAYSIDE COMMUNICATION EQUIPMENT.
5. ACCESS ROADS AND TURNAROUNDS MEET THE REQUIREMENTS OF TM 2.8.1 AND TYPICALLY HAVE A 20' WIDTH WITH 4' SHOULDERS ON EACH SIDE. SEE DETAIL 1 FOR TYPICAL SECTION (PER DD-CV-915).
6. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND TM 2.8.2.
7. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
8. SEE TM 1.1.21 FOR FACILITY TYPICAL CROSS SECTIONS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION C4 ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. TP-01030-A
SCALE AS SHOWN
SHEET NO.

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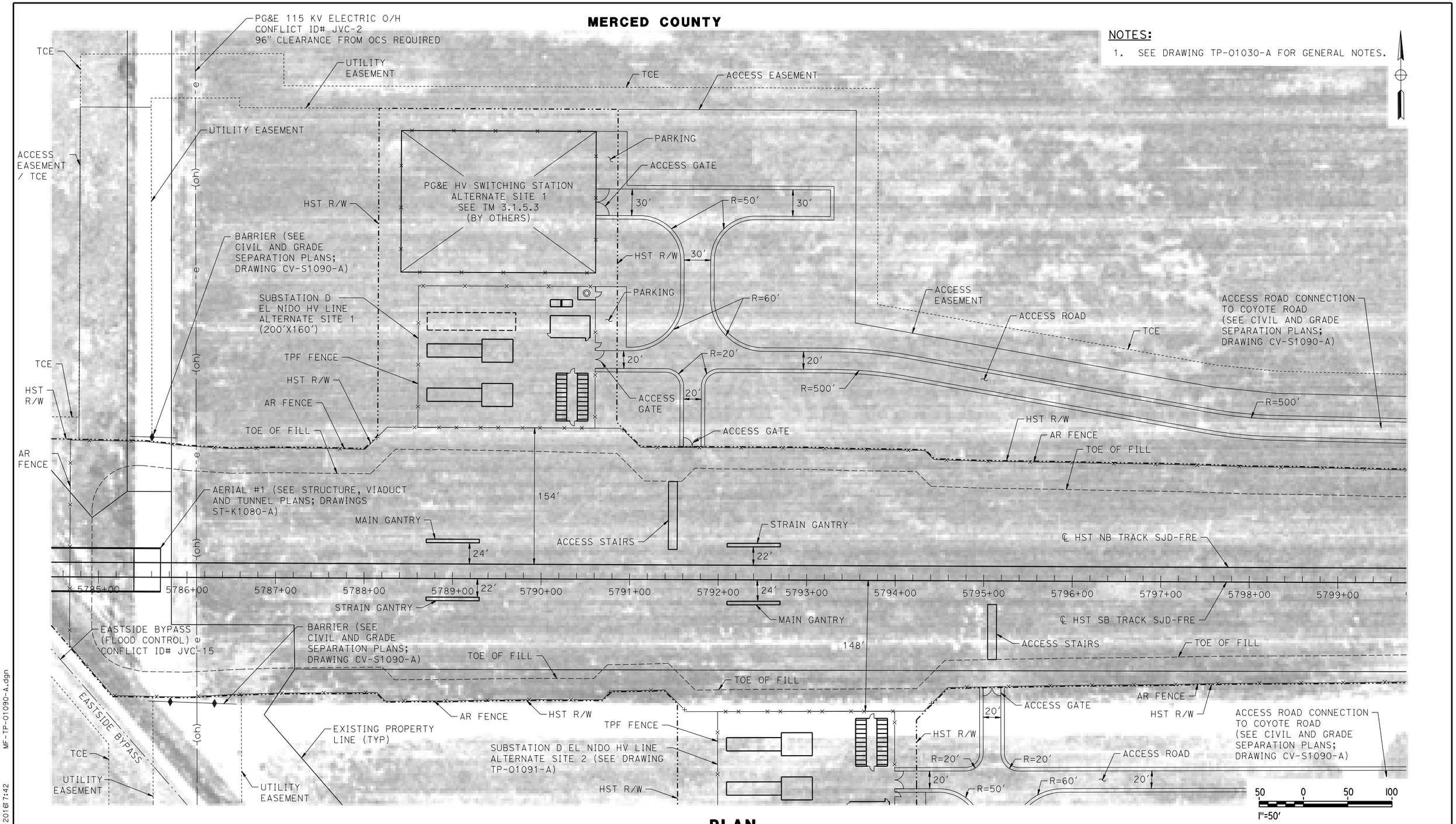

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
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NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SUBSTATION D (EL NIDO) ALTERNATE SITE 1

CONTRACT NO. HSR08-05
DRAWING NO. TP-01090-A
SCALE AS SHOWN
SHEET NO.

MF-TP-01090-A.dgn
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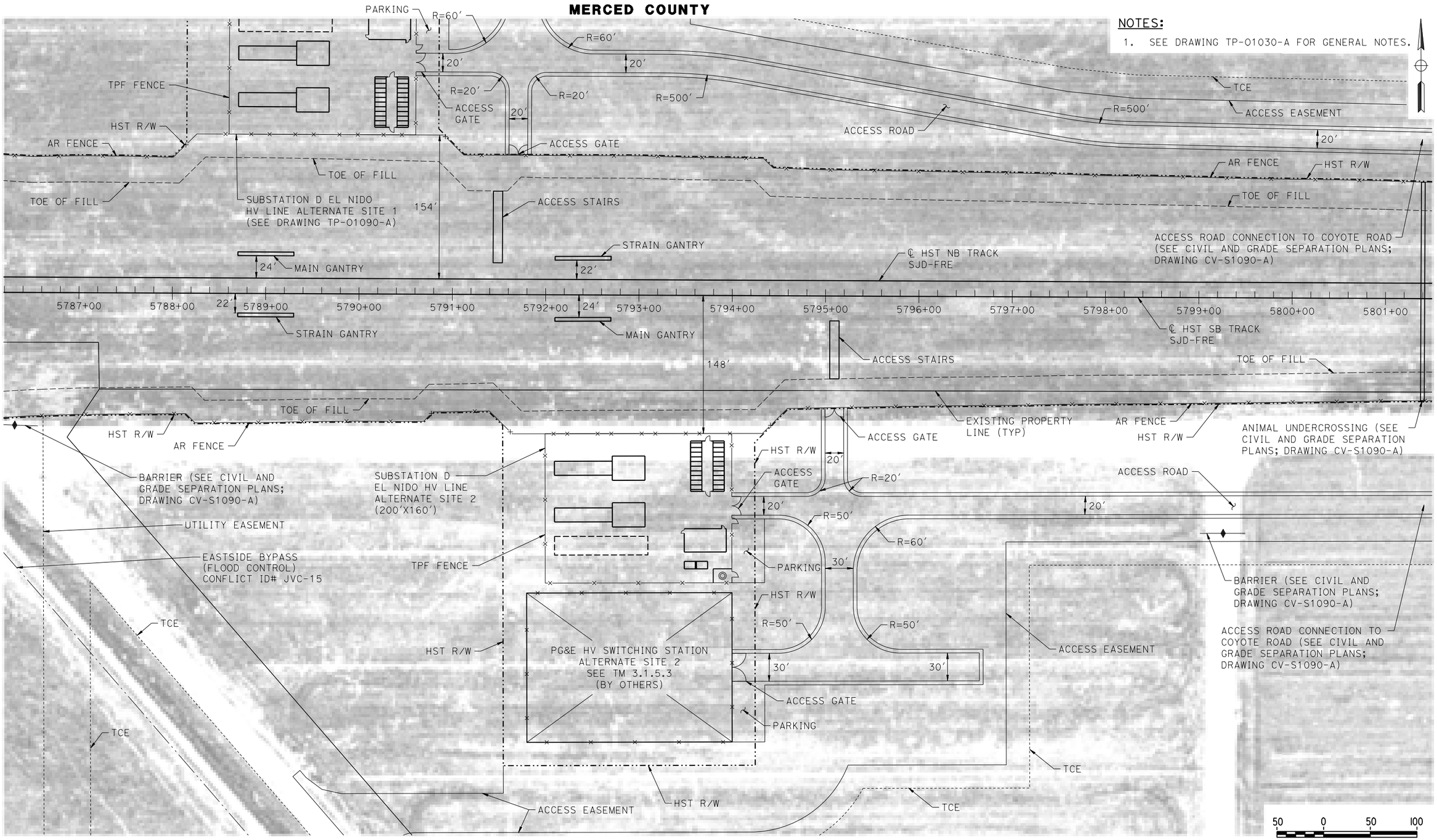

PLAN

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
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NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SUBSTATION D (EL NIDO) ALTERNATE SITE 2

CONTRACT NO. HSR08-05
DRAWING NO. TP-01091-A
SCALE AS SHOWN
SHEET NO.

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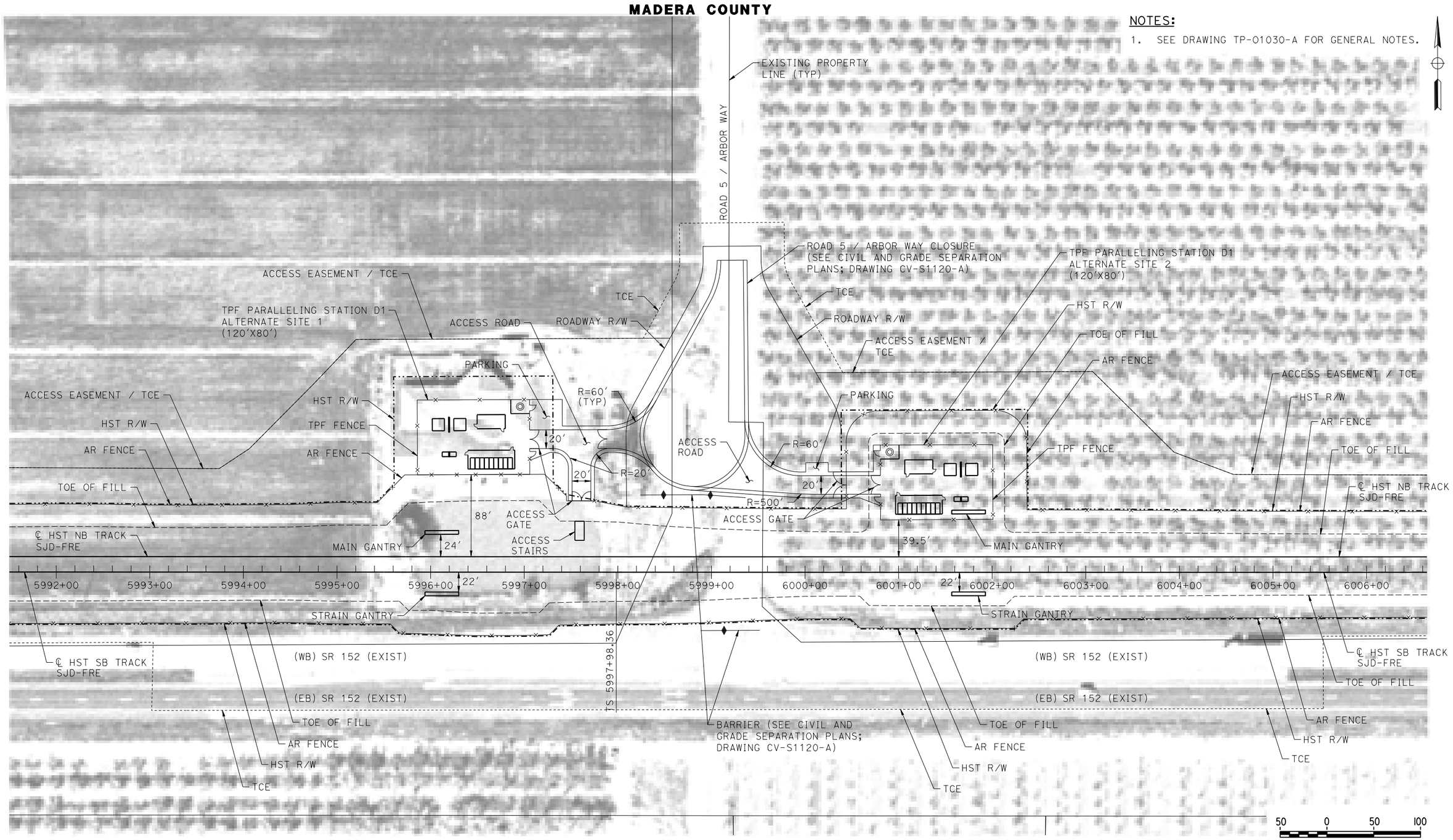
p005133a



NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
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IN CHARGE C. LEMLEY
DATE 03/18/2016

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PARSONS

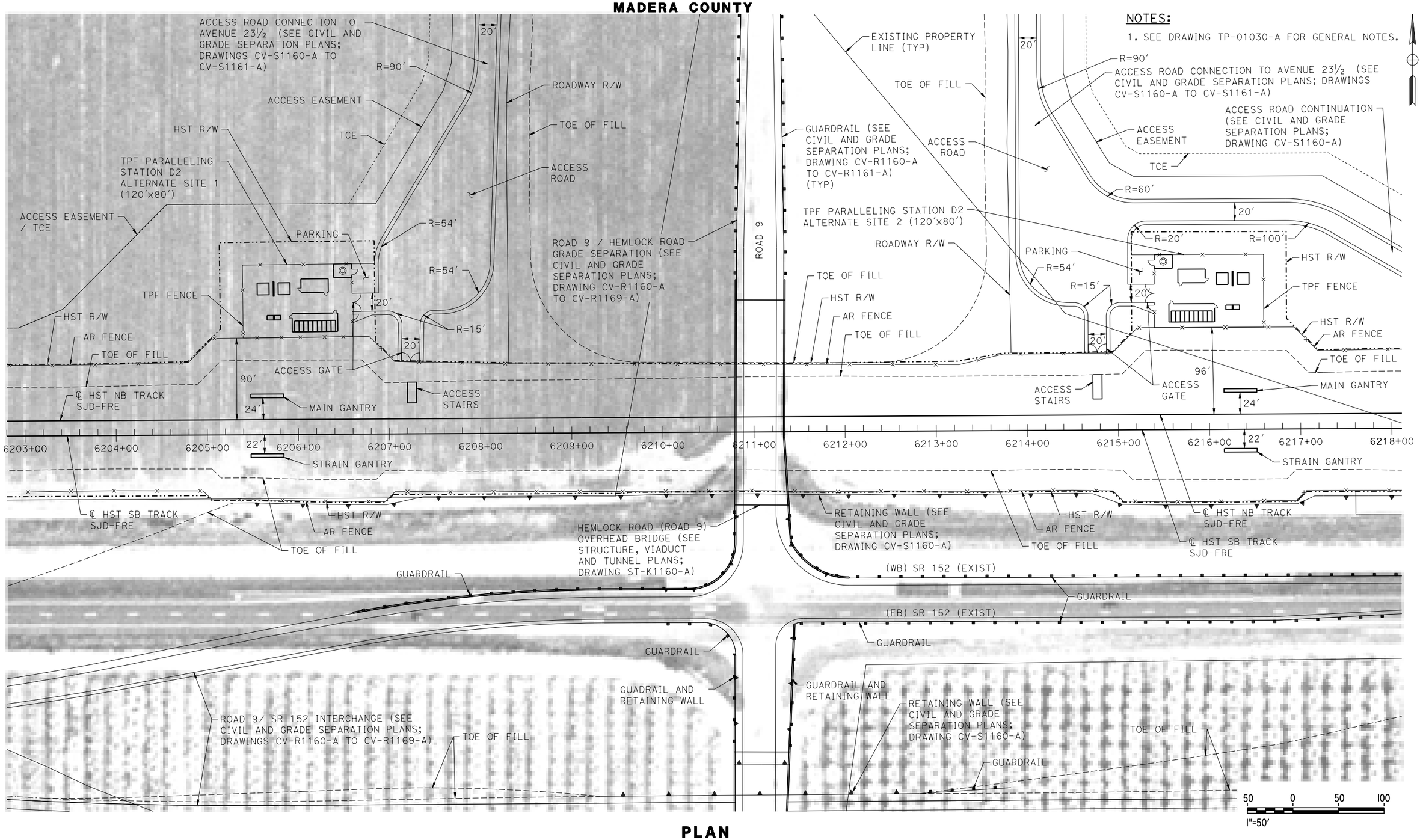
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D1 ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. TP-01120-A
SCALE AS SHOWN
SHEET NO.

p005133a 07-MAR-2016 7:44 MF-TP-01120-A.dgn

MADERA COUNTY



NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
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NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D2 ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. TP-01160-A
SCALE AS SHOWN
SHEET NO.

p005133a 18-MAR-2016 09:26 MF-TP-01160-A.dgn

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.

EXISTING PROPERTY LINE (TYP)
TCE
UTILITY EASEMENT
ROAD 13
PG&E 115 KV ELECTRIC O/H CONFLICT ID# WYH-2 96" CLEARANCE FROM OCS REQUIRED
UTILITY EASEMENT / TCE
ROAD 13 CLOSURE (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1200-A)
ROADWAY R/W
ROADWAY R/W
TCE
ACCESS ROAD
ACCESS EASEMENT
TCE
ACCESS EASEMENT
HST R/W
AR FENCE
TPF SWITCHING STATION D ALTERNATE SITE 1 (160'X90')
TCE
HST R/W
R=60'
R=54'
TOE OF FILL
ACCESS GATE
PARKING
R=20'
20'
R=90'
20'
20'
TOE OF FILL
TPF FENCE
TCE
HST R/W
AR FENCE
TOE OF FILL
℄ HST NB TRACK SJD-FRE
ACCESS EASEMENT / TCE
HST R/W
AR FENCE
TOE OF FILL
R=30'
ROADWAY R/W
ACCESS GATE
ACCESS STAIRS
39.5'
MAIN GANTRY
6418+00
6419+00
6420+00
6421+00
6422+00
6423+00
6424+00
6425+00
6426+00
6427+00
6428+00
22'
6429+00
6430+00
6431+00
6432+00
6433+00
STRAIN GANTRY
TOE OF FILL
℄ HST NB TRACK SJD-FRE
℄ HST SB TRACK SJD-FRE
AR FENCE
HST R/W
BARRIER (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1200-A)
UTILITY EASEMENT
ROADWAY R/W
℄ HST SB TRACK SJD-FRE
TOE OF FILL
AR FENCE
HST R/W
TOP OF CUT
(WB) SR 152 (EXIST)
(WB) SR 152
UTILITY EASEMENT
BARRIER (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1200-A)
(EB) SR 152 (EXIST)
(EB) SR 152
TCE
ROADWAY R/W
ROAD 13 CLOSURE (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1200-A)
TOP OF CUT
TCE
ROADWAY R/W
TCE
ROADWAY R/W
SR 233 / SR 152 INTERCHANGE (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-R1200-A TO CV-R1214-A)
50 0 50 100
1"=50'

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION D ALTERNATE SITE 1

CONTRACT NO. HSR08-05
DRAWING NO. TP-01200-A
SCALE AS SHOWN
SHEET NO.

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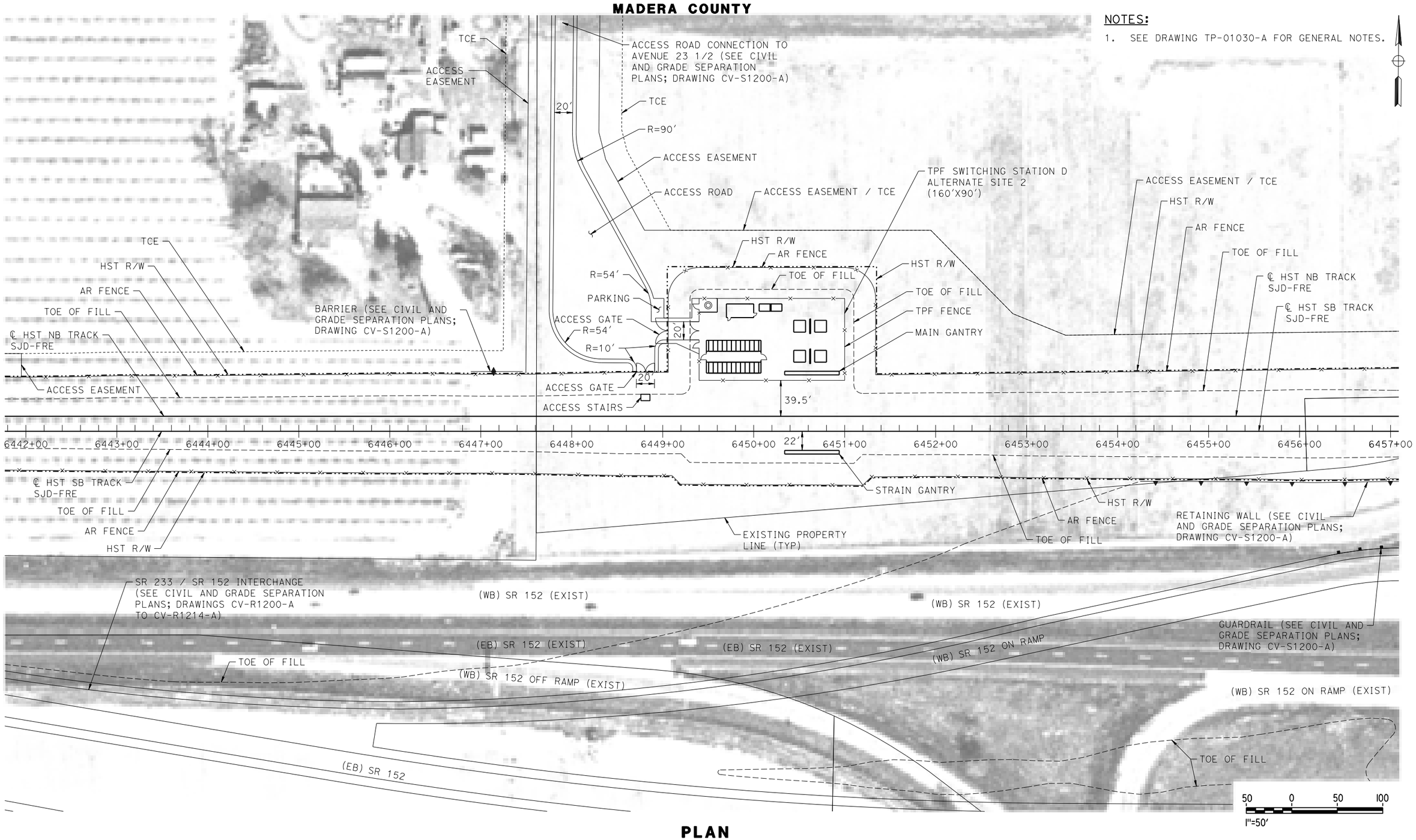


NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION D ALTERNATE SITE 2

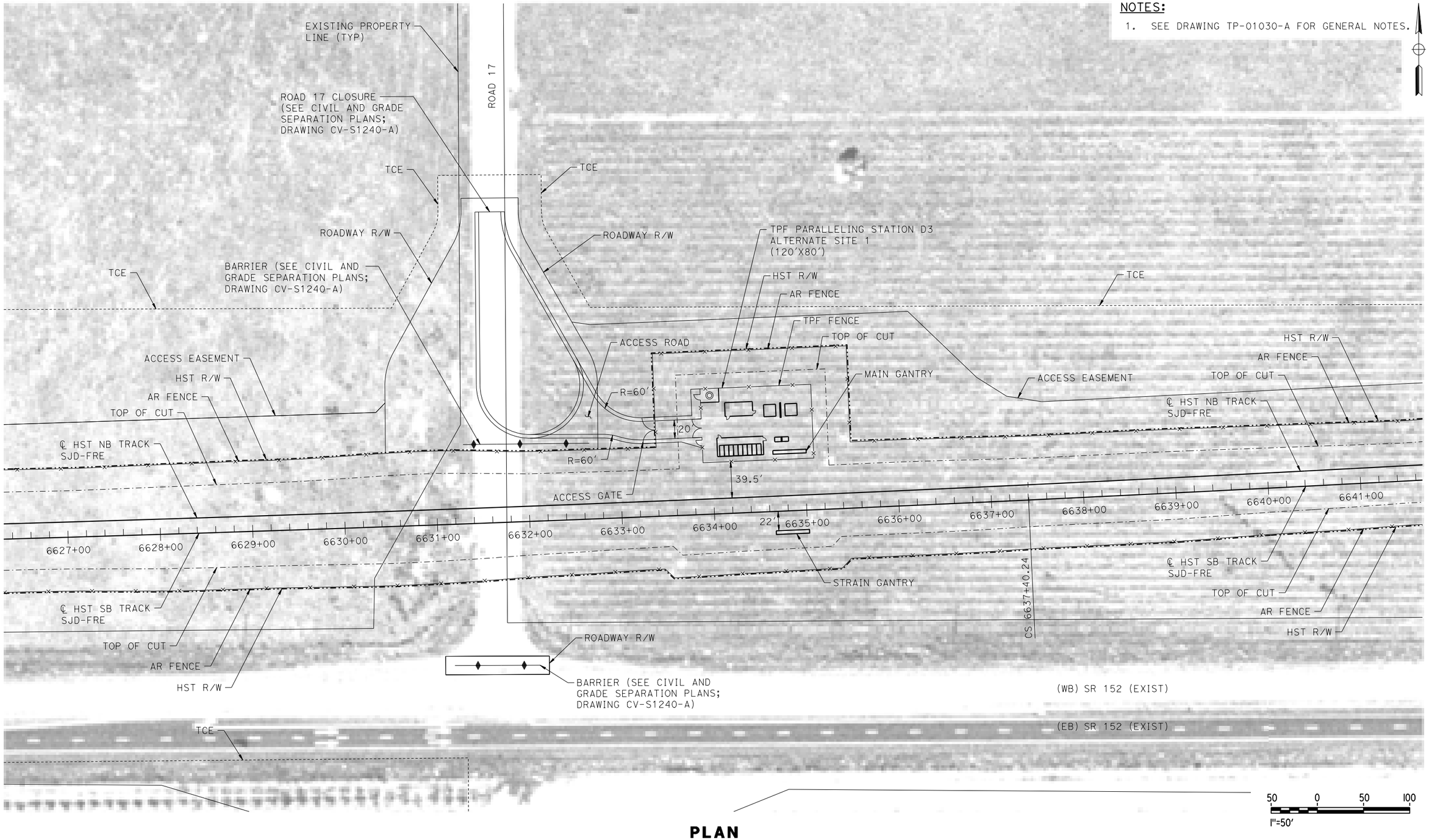
CONTRACT NO. HSR08-05
DRAWING NO. TP-01201-A
SCALE AS SHOWN
SHEET NO.

MF-TP-01201-A.dgn 07-MAR-2016 7:47 p005133a

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

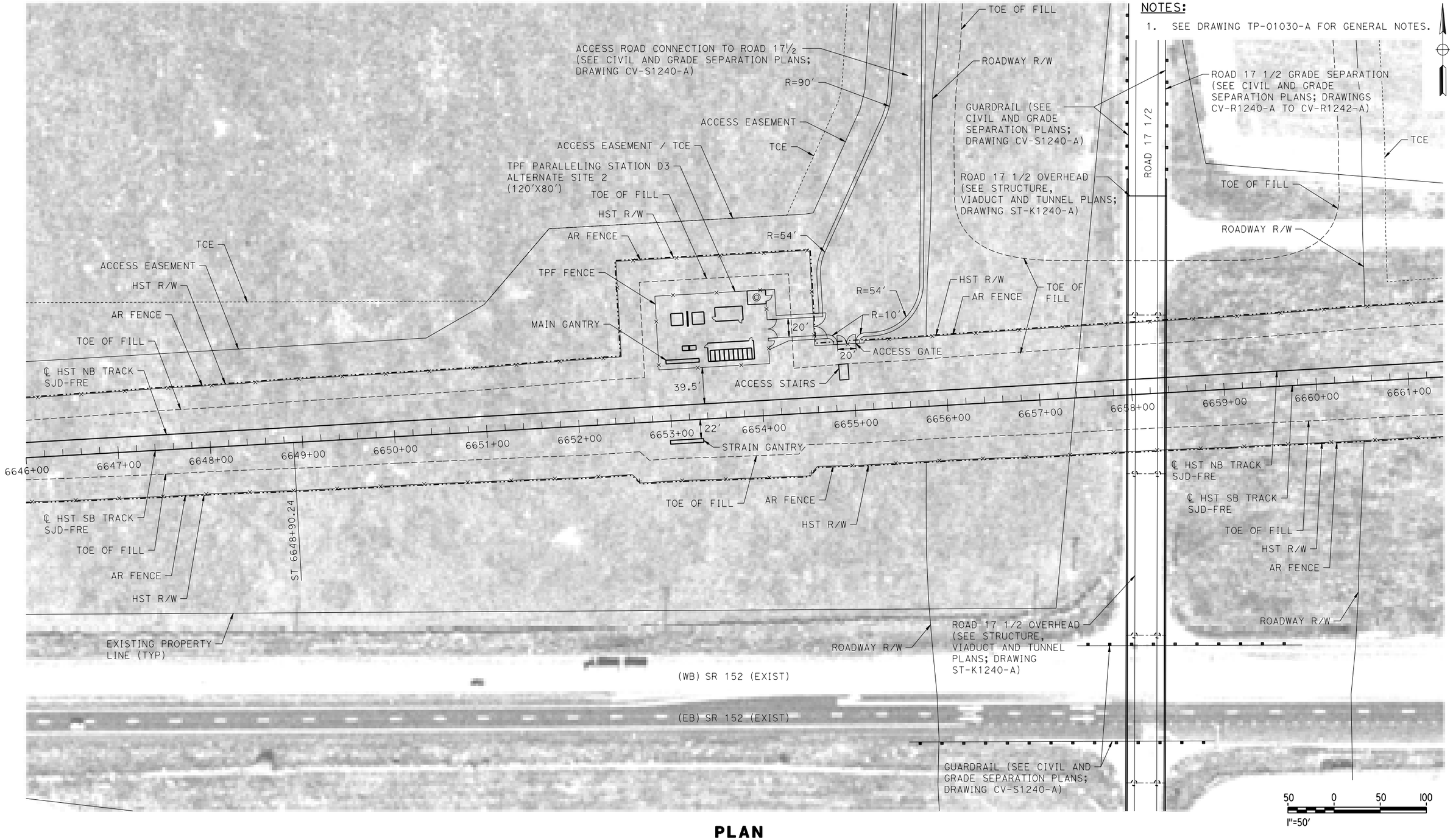
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D3 ALTERNATE SITE 1

CONTRACT NO. HSR08-05
DRAWING NO. TP-01240-A
SCALE AS SHOWN
SHEET NO.

p005133a 07-MAR-2016 7:48 MF-TP-01240-A.dgn

MADERA COUNTY



NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D3 ALTERNATE SITE 2

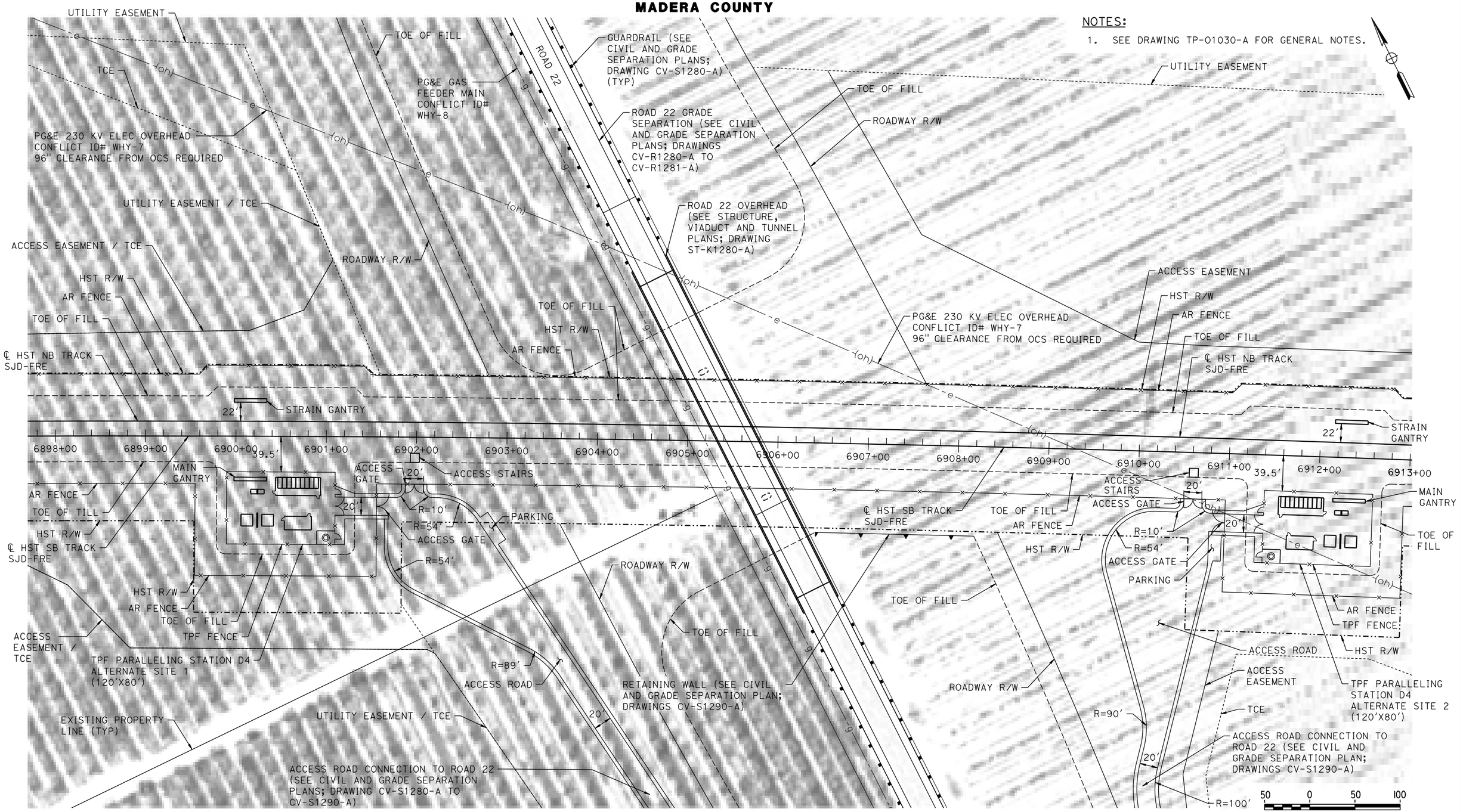
CONTRACT NO. HSR08-05
DRAWING NO. TP-01241-A
SCALE AS SHOWN
SHEET NO.

MF-TP-01241-A.dgn 18-MAR-2016 09:29 p005133a

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D4 ALTERNATE SITES 1 & 2

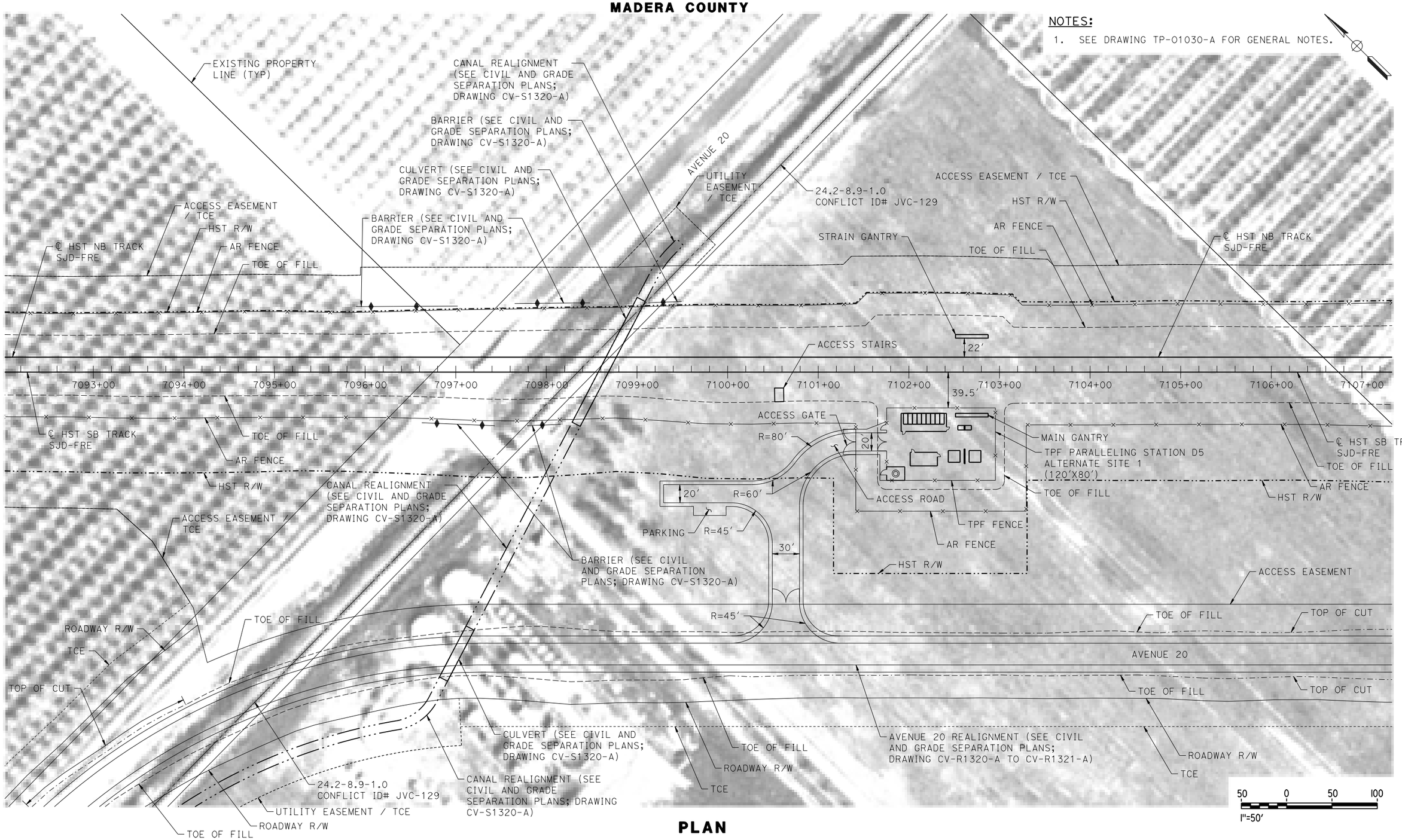
CONTRACT NO. HSR08-05
DRAWING NO. TP-01280-A
SCALE AS SHOWN
SHEET NO.

MF-TP-01280-A.dgn
11-MAR-2016 08:33
p0042226

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D5 ALTERNATE SITE 1

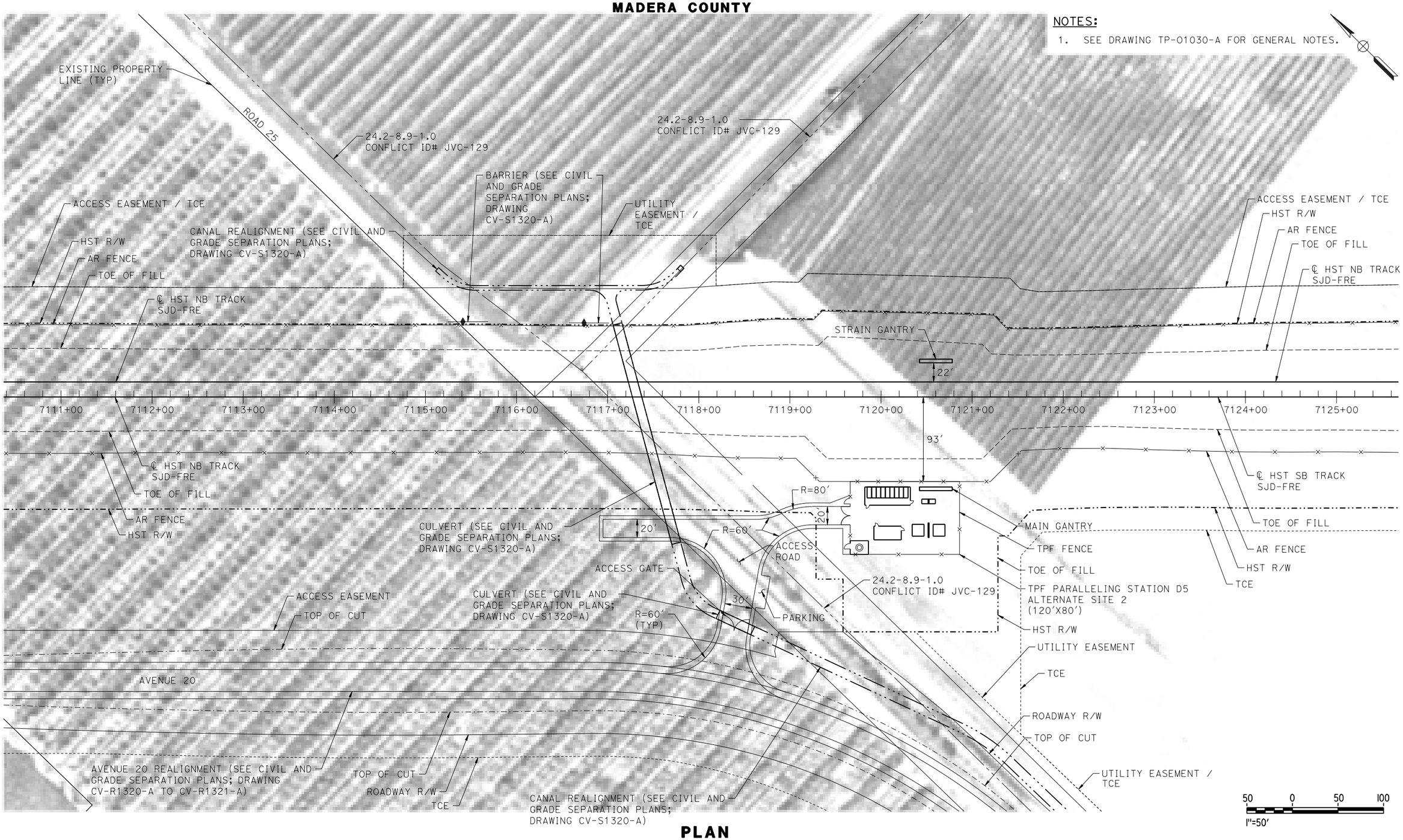
CONTRACT NO. HSR08-05
DRAWING NO. TP-01320-A
SCALE AS SHOWN
SHEET NO.

MF-TP-01320-A.dgn 07-MAR-2016 7:52 p005133a

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

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PARSONS

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D5 ALTERNATE SITE 2

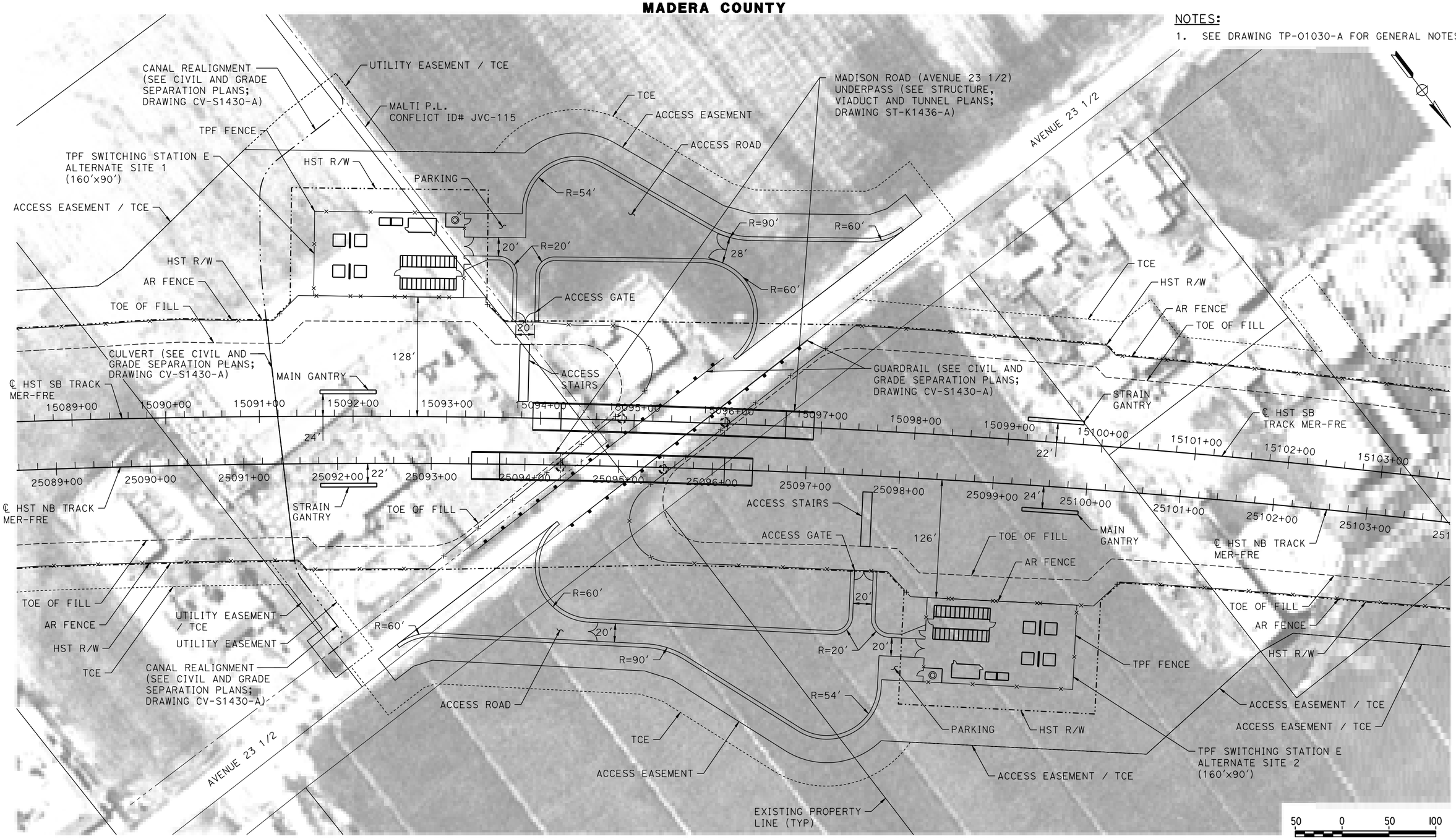
CONTRACT NO. HSR08-05
DRAWING NO. TP-01321-A
SCALE AS SHOWN
SHEET NO.

p0051330 18-MAR-2016 09:30 WF-TP-01321-A.dgn

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION E ALTERNATE SITES 1 & 2

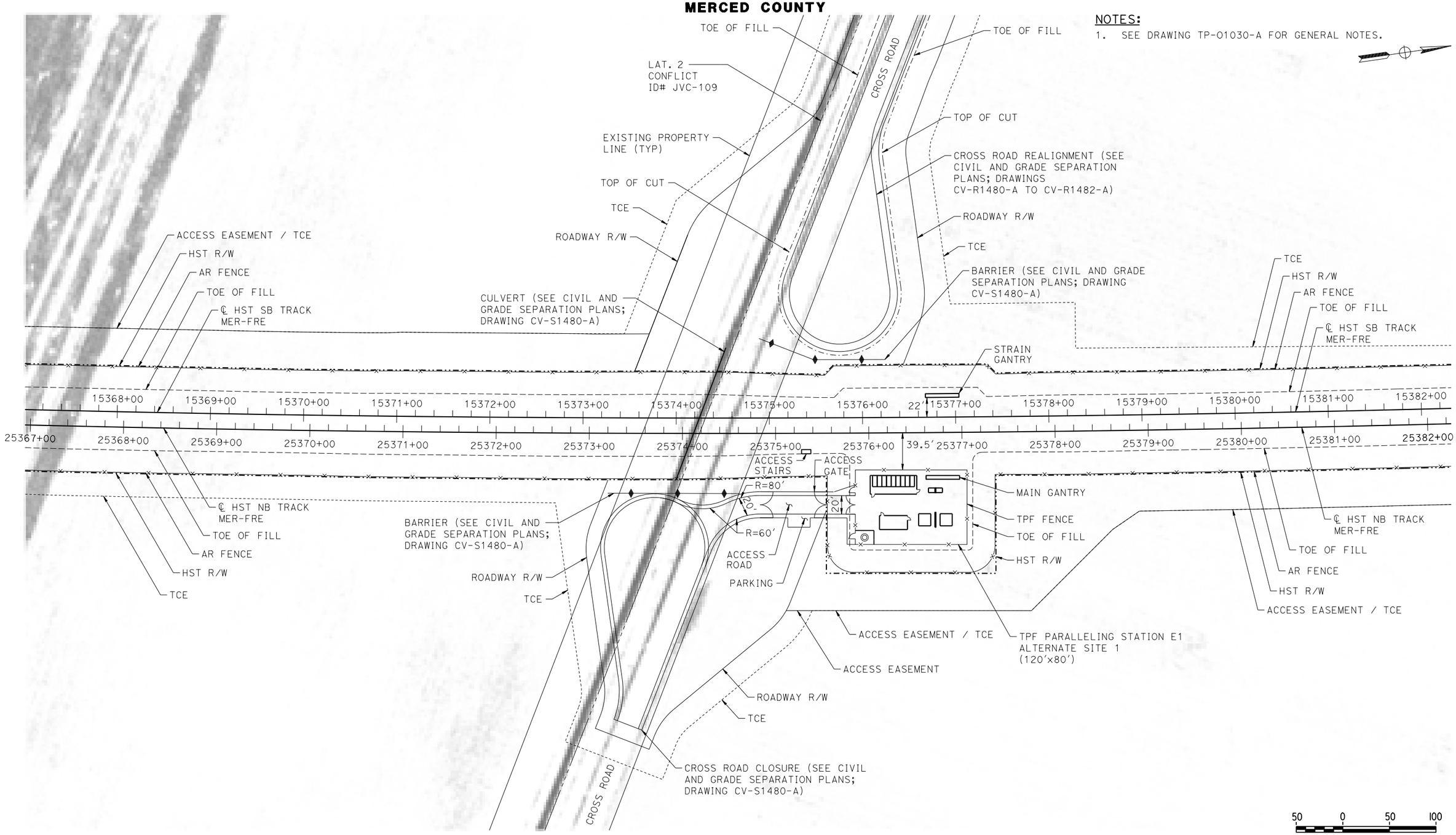
CONTRACT NO. HSR08-05
DRAWING NO. TP-01430-A
SCALE AS SHOWN
SHEET NO.

MF-TP-01430-A.dgn
11-MAR-2016 08:34
p0042226

MERCED COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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IN CHARGE C. LEMLEY
DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION E1 ALTERNATE SITE 1

CONTRACT NO. HSR08-05
DRAWING NO. TP-01480-A
SCALE AS SHOWN
SHEET NO.

MF-TP-01480-A.dgn
18-MAR-2016 10:25
p0051330

MERCED COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE C. LEMLEY
DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION E1 ALTERNATE SITE 2

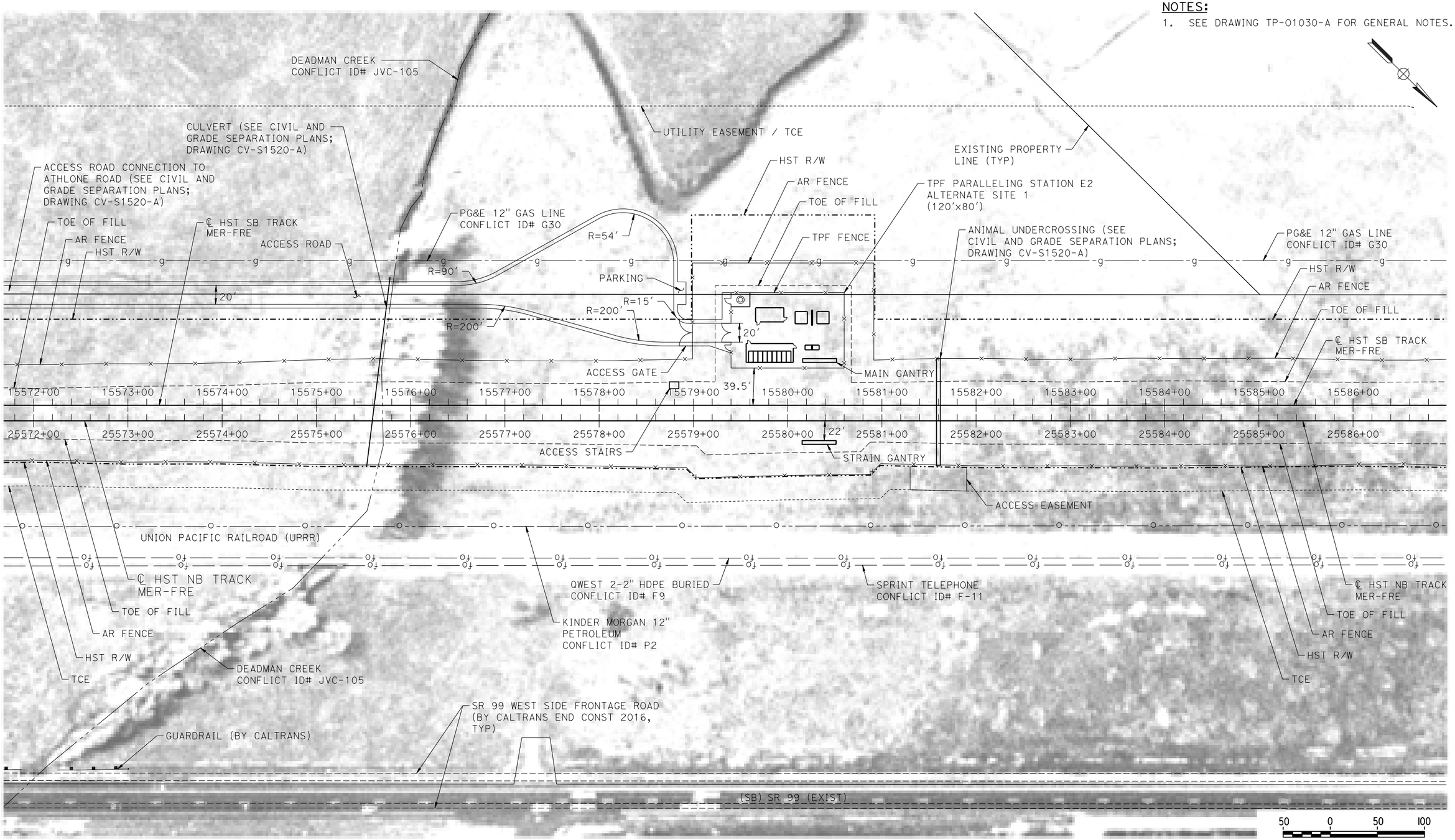
CONTRACT NO. HSR08-05
DRAWING NO. TP-01490-A
SCALE AS SHOWN
SHEET NO.

07-MAR-2016 7:57 WF-TP-01490-A.dgn
p005133a

MERCED COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION E2 ALTERNATE SITE 1

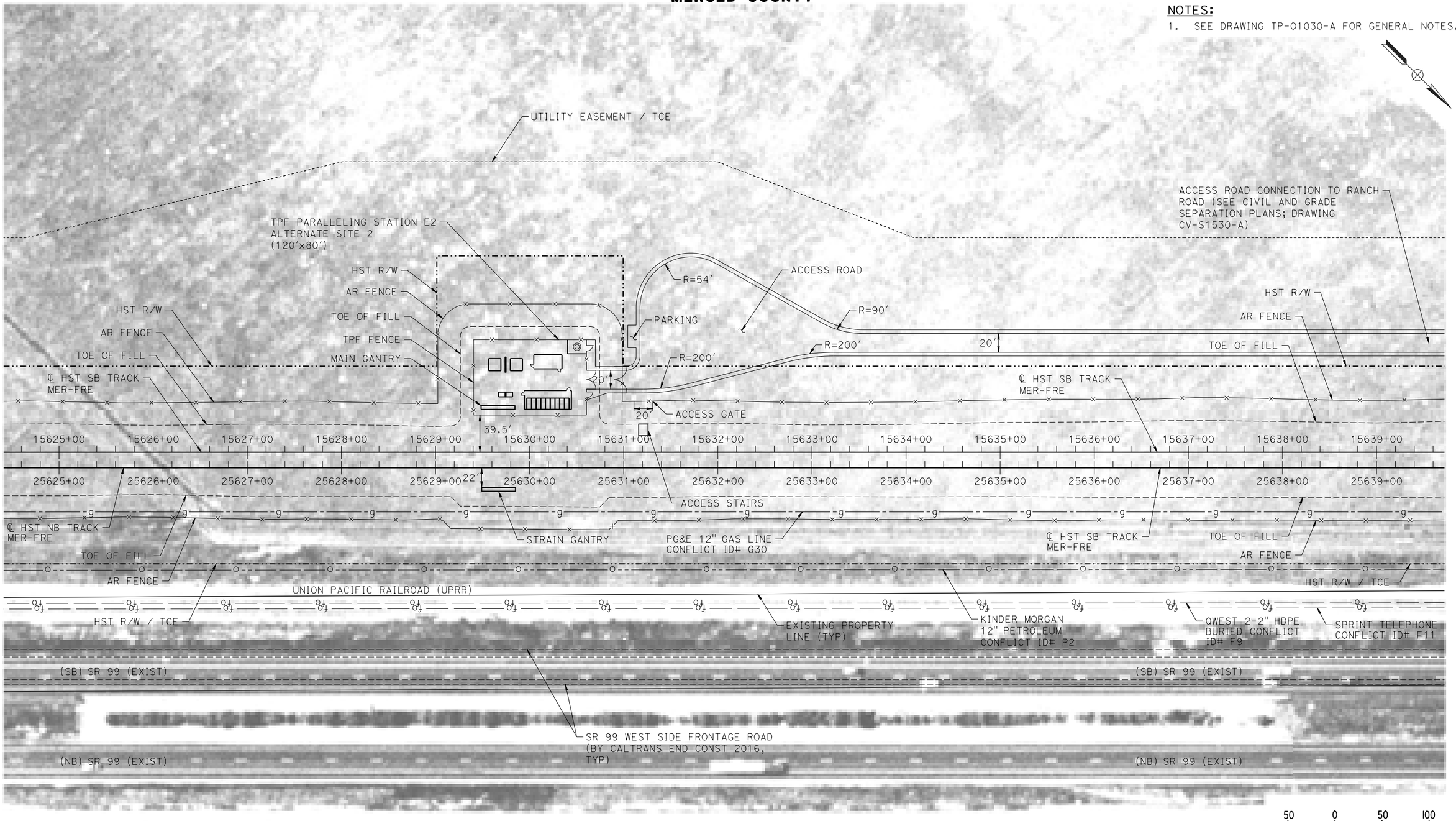
CONTRACT NO. HSR08-05
DRAWING NO. TP-01520-A
SCALE AS SHOWN
SHEET NO.

MF-TP-01520-A.dgn
18-MAR-2016 09:32
p005133a

MERCED COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE 03/18/2016

RECORD SET 15% DESIGN SUBMITTAL

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION E2 ALTERNATE SITE 2

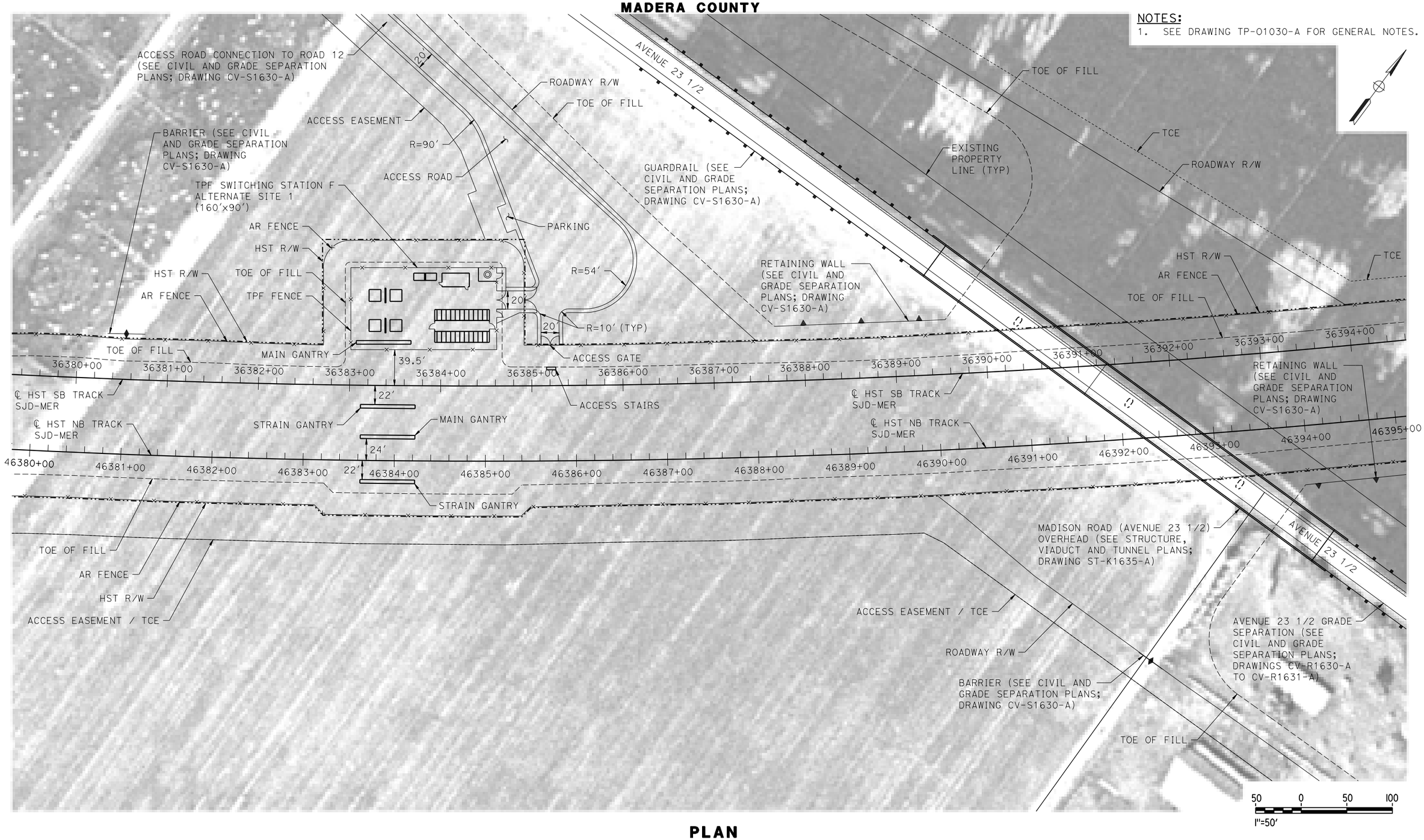
CONTRACT NO. HSR08-05
DRAWING NO. TP-01530-A
SCALE AS SHOWN
SHEET NO.

p005133a 07-MAR-2016 7:59 MF-TP-01530-A.dgn

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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IN CHARGE C. LEMLEY
DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION F ALTERNATE SITE 1

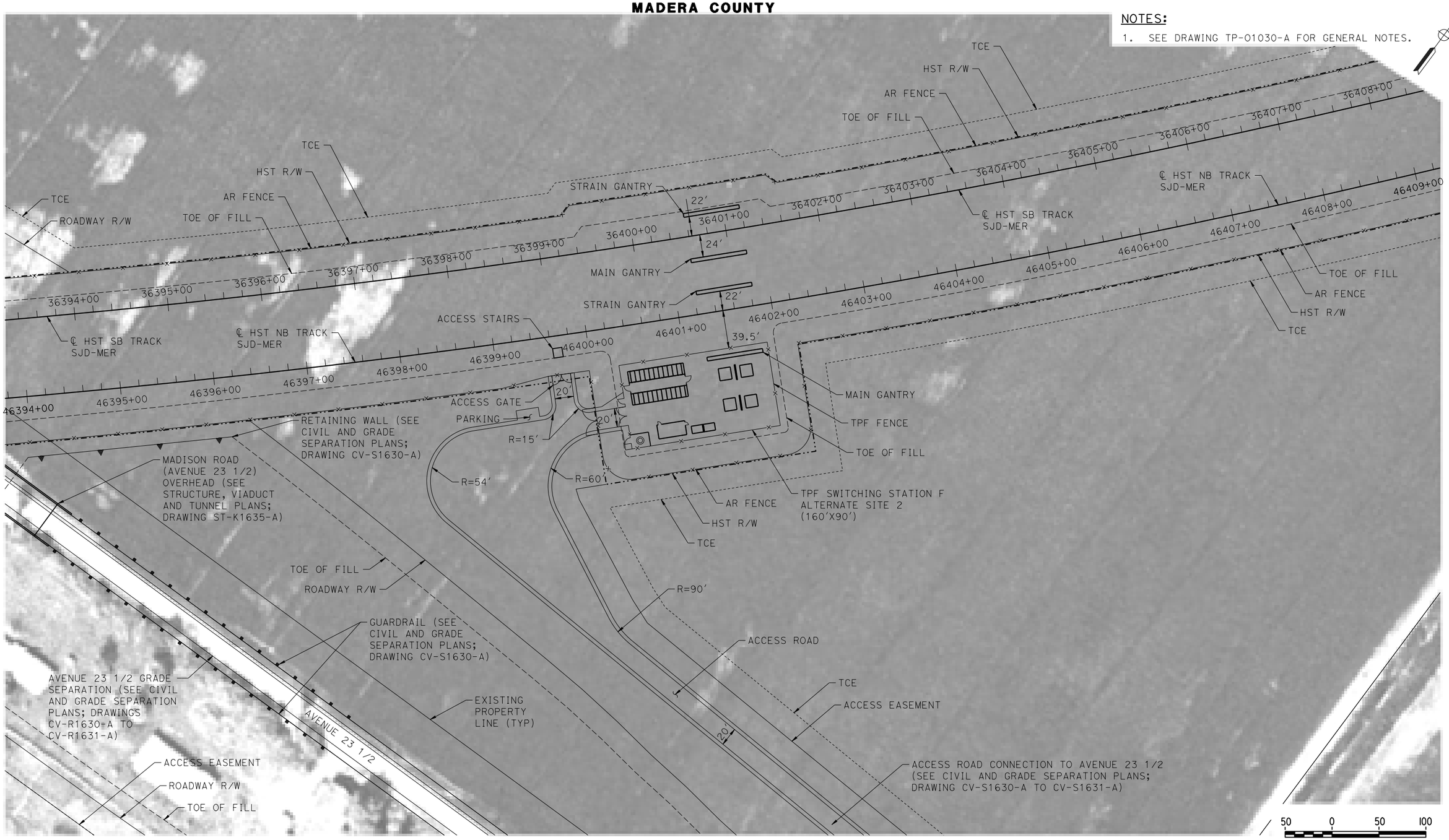
CONTRACT NO. HSR08-05
DRAWING NO. TP-01630-A
SCALE AS SHOWN
SHEET NO.

p005133a 18-MAR-201609:34 WF-TP-01630-A.dgn

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-A FOR GENERAL NOTES.



PLAN

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DESIGNED BY A. GURA
DRAWN BY M. TACTAY
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DATE 03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

PARSONS

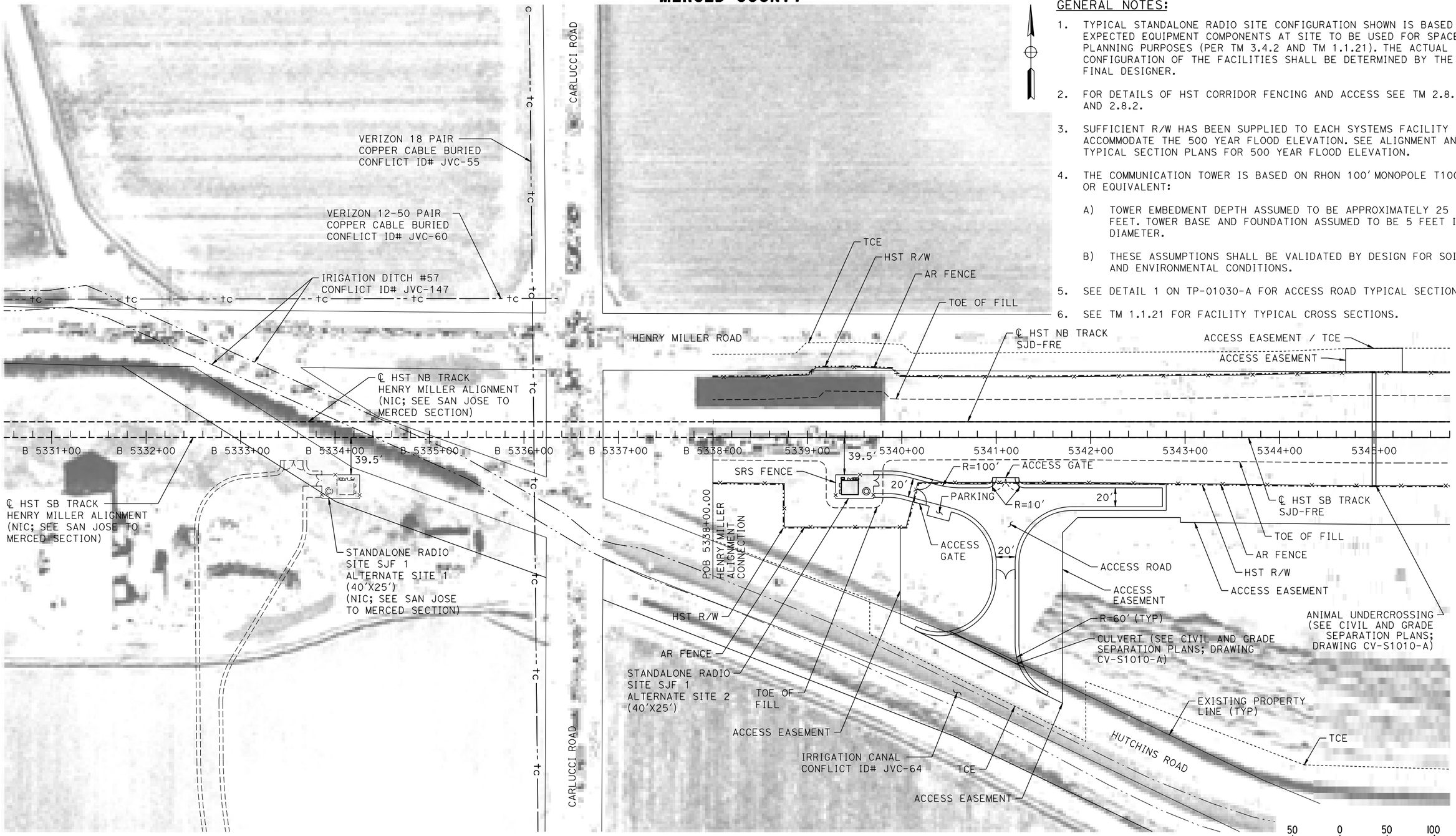
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION F ALTERNATE SITE 2

CONTRACT NO. HSR08-05
DRAWING NO. TP-01631-A
SCALE AS SHOWN
SHEET NO.

MF-TP-01631-A.dgn
18-MAR-2016 09:35
p005133a

MERCED COUNTY



PLAN

GENERAL NOTES:

1. TYPICAL STANDALONE RADIO SITE CONFIGURATION SHOWN IS BASED ON EXPECTED EQUIPMENT COMPONENTS AT SITE TO BE USED FOR SPACE PLANNING PURPOSES (PER TM 3.4.2 AND TM 1.1.21). THE ACTUAL CONFIGURATION OF THE FACILITIES SHALL BE DETERMINED BY THE FINAL DESIGNER.
2. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND 2.8.2.
3. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
4. THE COMMUNICATION TOWER IS BASED ON RHON 100' MONOPOLE T100HA OR EQUIVALENT:
   - A) TOWER EMBEDMENT DEPTH ASSUMED TO BE APPROXIMATELY 25 FEET. TOWER BASE AND FOUNDATION ASSUMED TO BE 5 FEET IN DIAMETER.
   - B) THESE ASSUMPTIONS SHALL BE VALIDATED BY DESIGN FOR SOIL AND ENVIRONMENTAL CONDITIONS.
5. SEE DETAIL 1 ON TP-01030-A FOR ACCESS ROAD TYPICAL SECTION.
6. SEE TM 1.1.21 FOR FACILITY TYPICAL CROSS SECTIONS.

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 1 ALTERNATE SITES 1 & 2

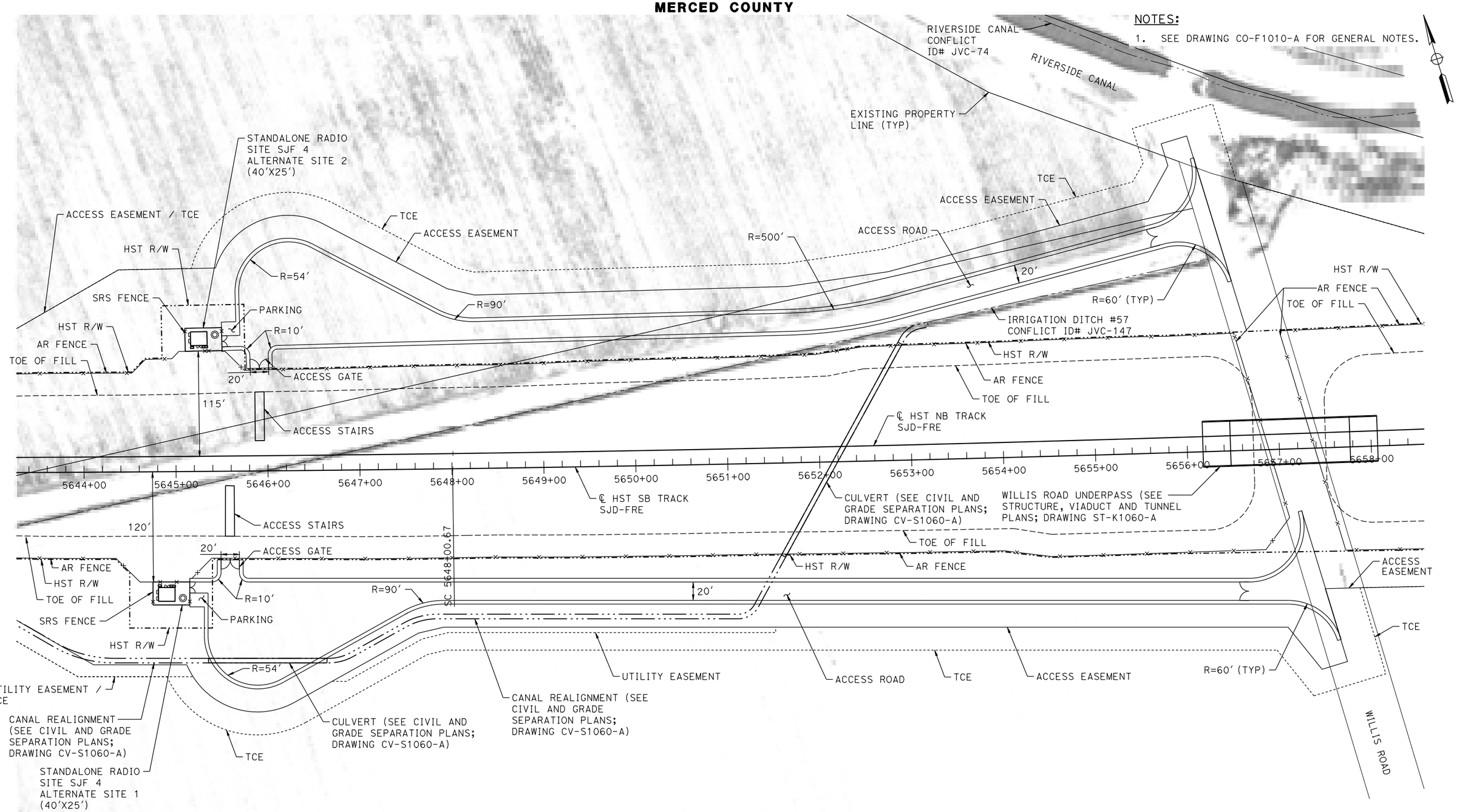
CONTRACT NO. HSR08-05
DRAWING NO. CO-F1010-A
SCALE AS SHOWN
SHEET NO.

MF-CO-F1010-A.dgn 11-MAR-2016 08:28 p0042226

MERCED COUNTY

NOTES:

1. SEE DRAWING CO-F1010-A FOR GENERAL NOTES.



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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 4 ALTERNATE SITES 1 & 2

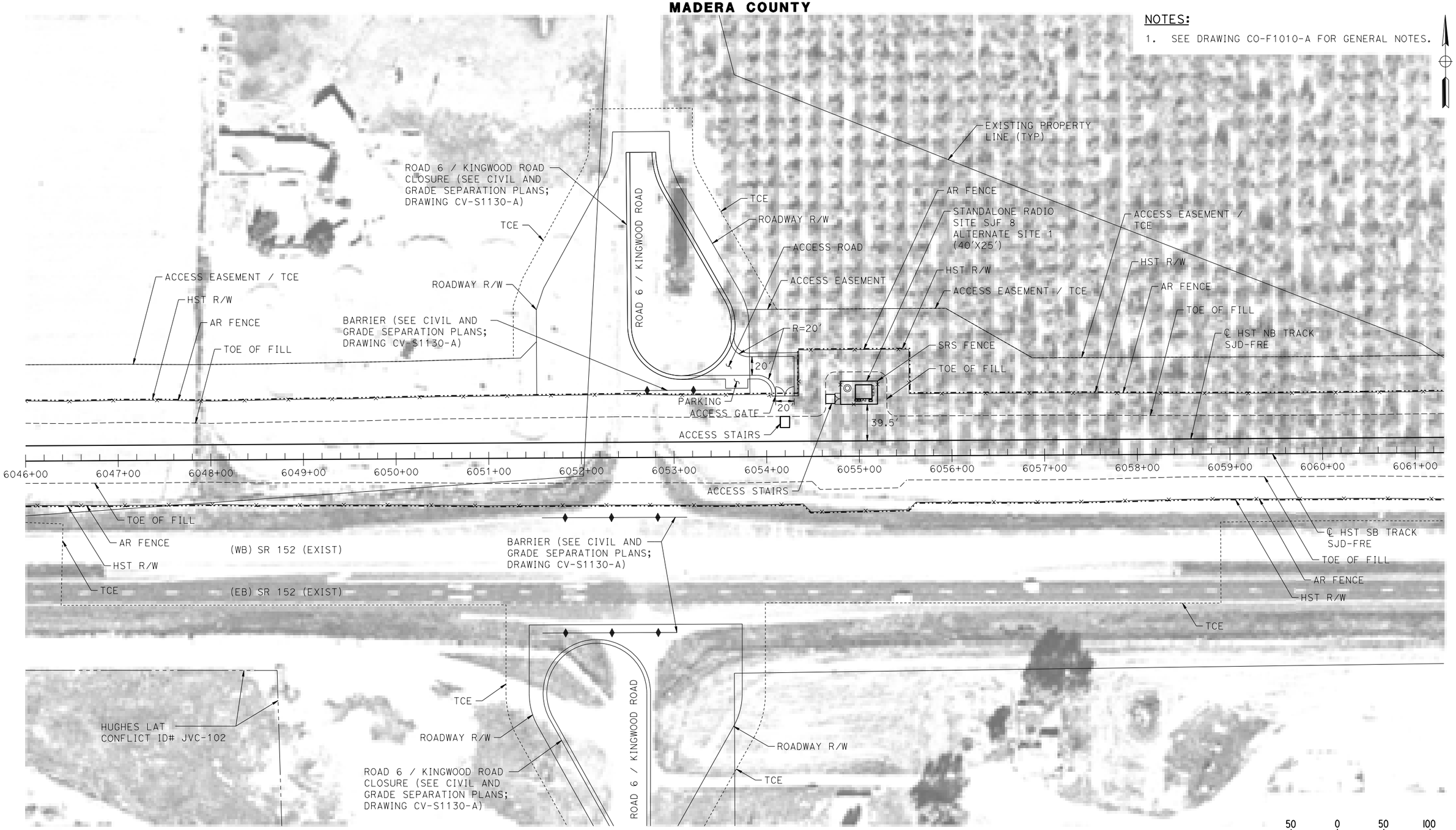
CONTRACT NO. HSR08-05
DRAWING NO. CO-F1060-A
SCALE AS SHOWN
SHEET NO.

MF-CO-F1060-A.dgn
11-MAR-2016 08:29
p0042226

MADERA COUNTY

NOTES:

1. SEE DRAWING CO-F1010-A FOR GENERAL NOTES.



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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 8 ALTERNATE SITE 1

CONTRACT NO. HSR08-05
DRAWING NO. CO-F1130-A
SCALE AS SHOWN
SHEET NO.

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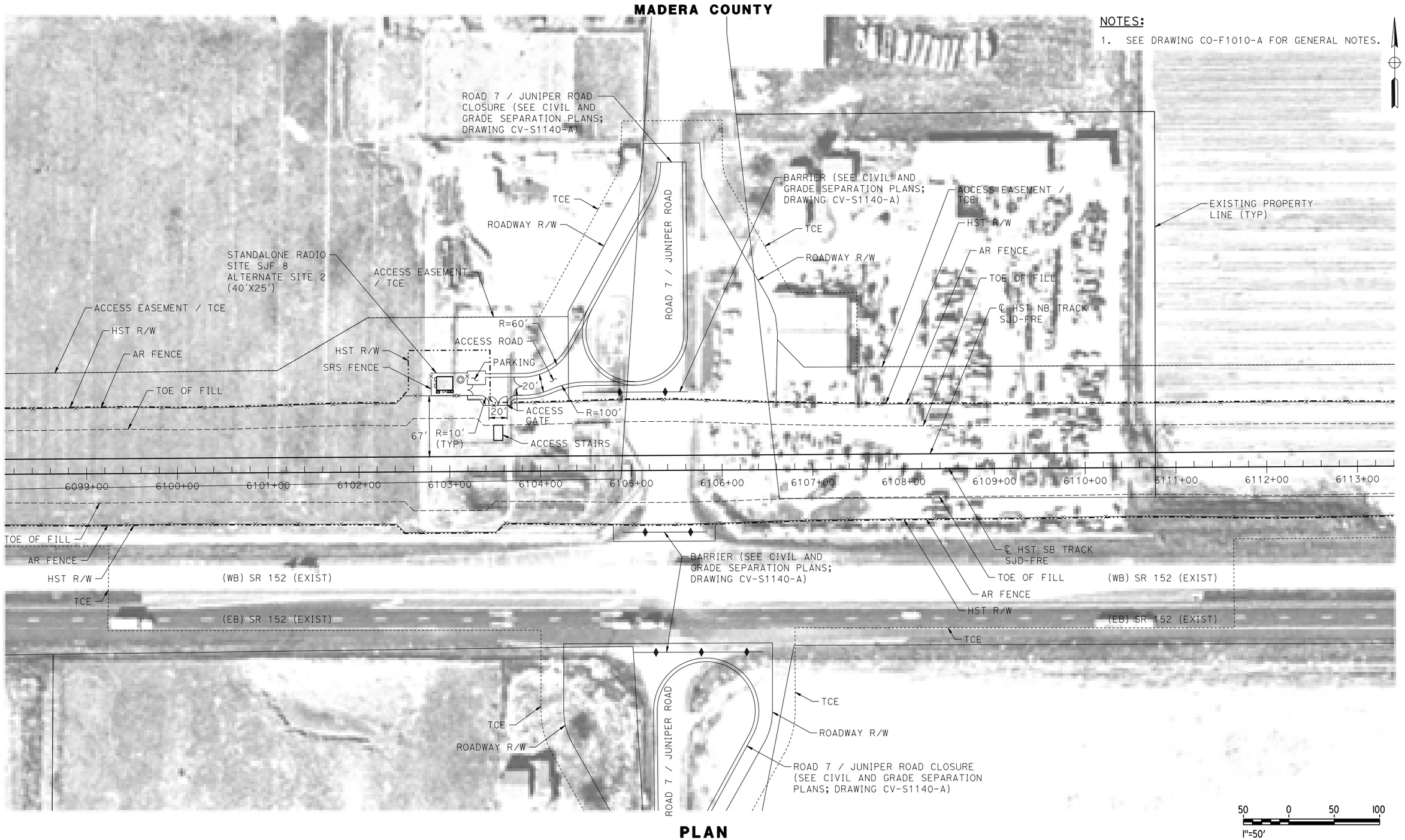

NOTES:

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PLAN

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 8 ALTERNATE SITE 2

CONTRACT NO. HSR08-05
DRAWING NO. CO-F1140-A
SCALE AS SHOWN
SHEET NO.

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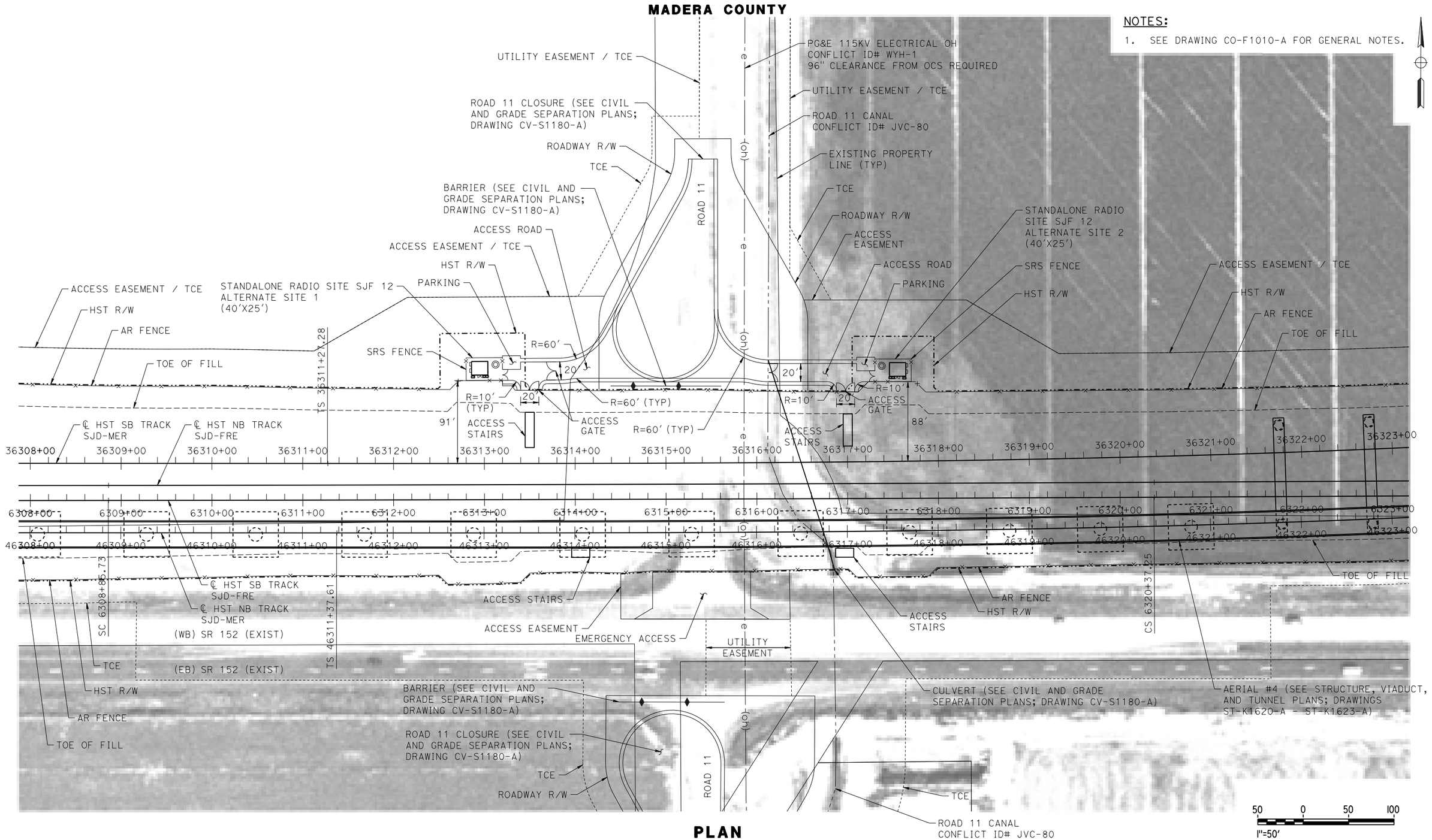

PLAN

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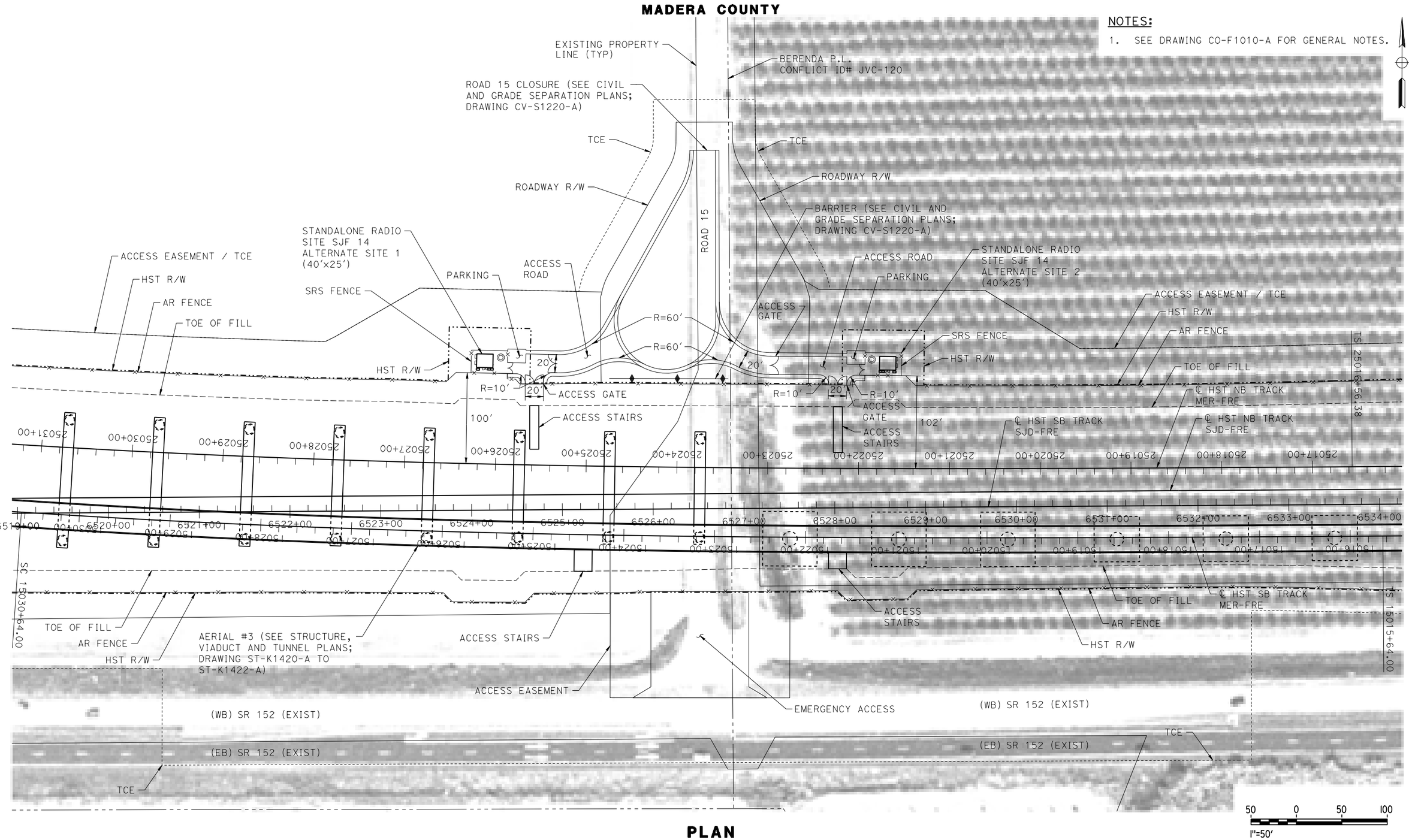
PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 12 ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. CO-F1180-A
SCALE AS SHOWN
SHEET NO.

MF-CO-F1180-A.dgn 18-MAR-2016 09:36 p005133a



PLAN

NOTES:

1. SEE DRAWING CO-F1010-A FOR GENERAL NOTES.

REV	DATE	BY	CHK	APP	DESCRIPTION

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PARSONS

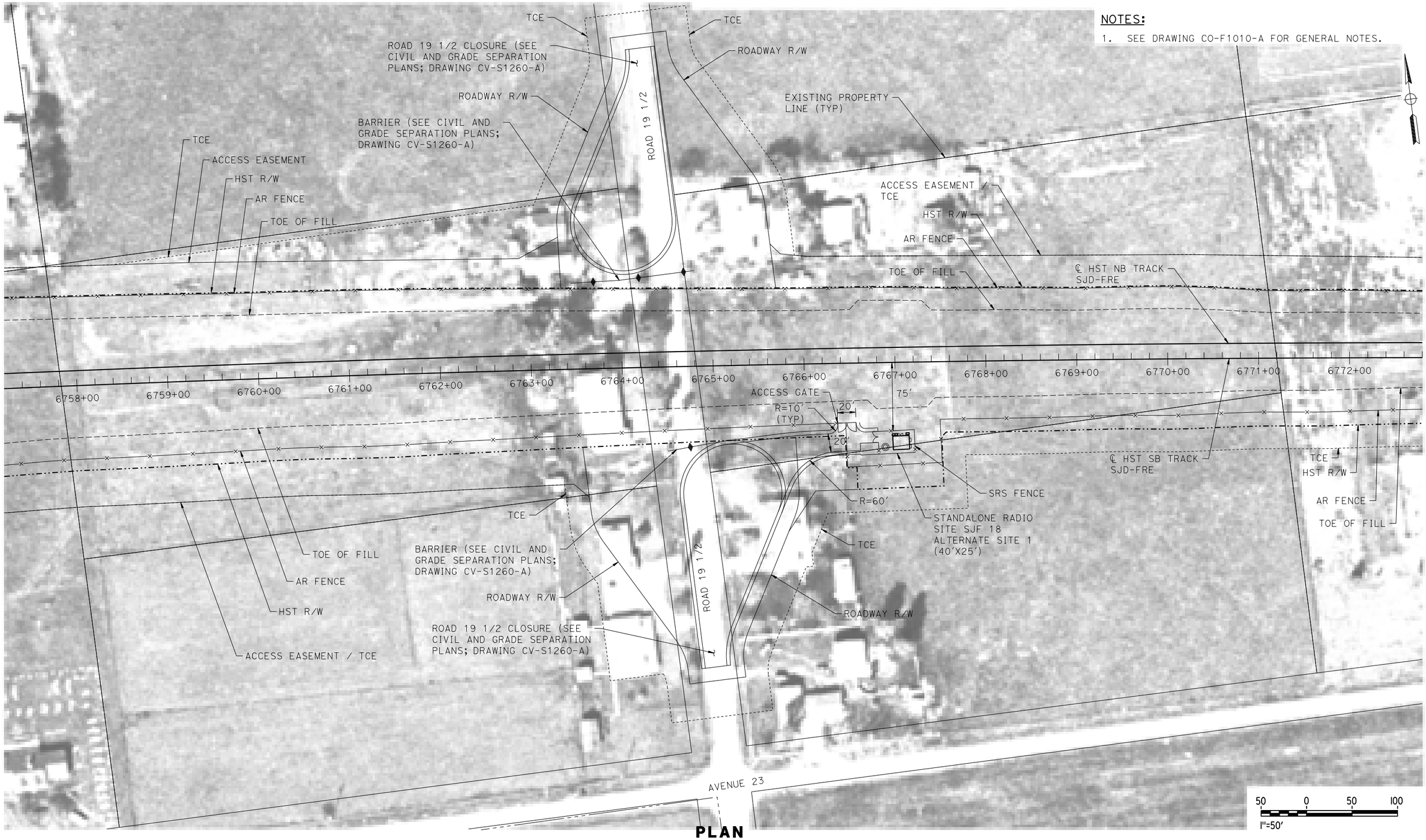
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 14 ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. CO-F1220-A
SCALE AS SHOWN
SHEET NO.

MF-CO-F1220-A.dgn 07-MAR-2016 7:36 p0051133a

MADERA COUNTY



PLAN

NOTES:

1. SEE DRAWING CO-F1010-A FOR GENERAL NOTES.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 18 ALTERNATE SITE 1

CONTRACT NO. HSR08-05
DRAWING NO. CO-F1260-A
SCALE AS SHOWN
SHEET NO.

MF-CO-F1260-A.dgn
18-MAR-2016 5:35
p005133a

MADERA COUNTY

NOTES:

1. SEE DRAWING CO-F1010-A FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 18 ALTERNATE SITE 2

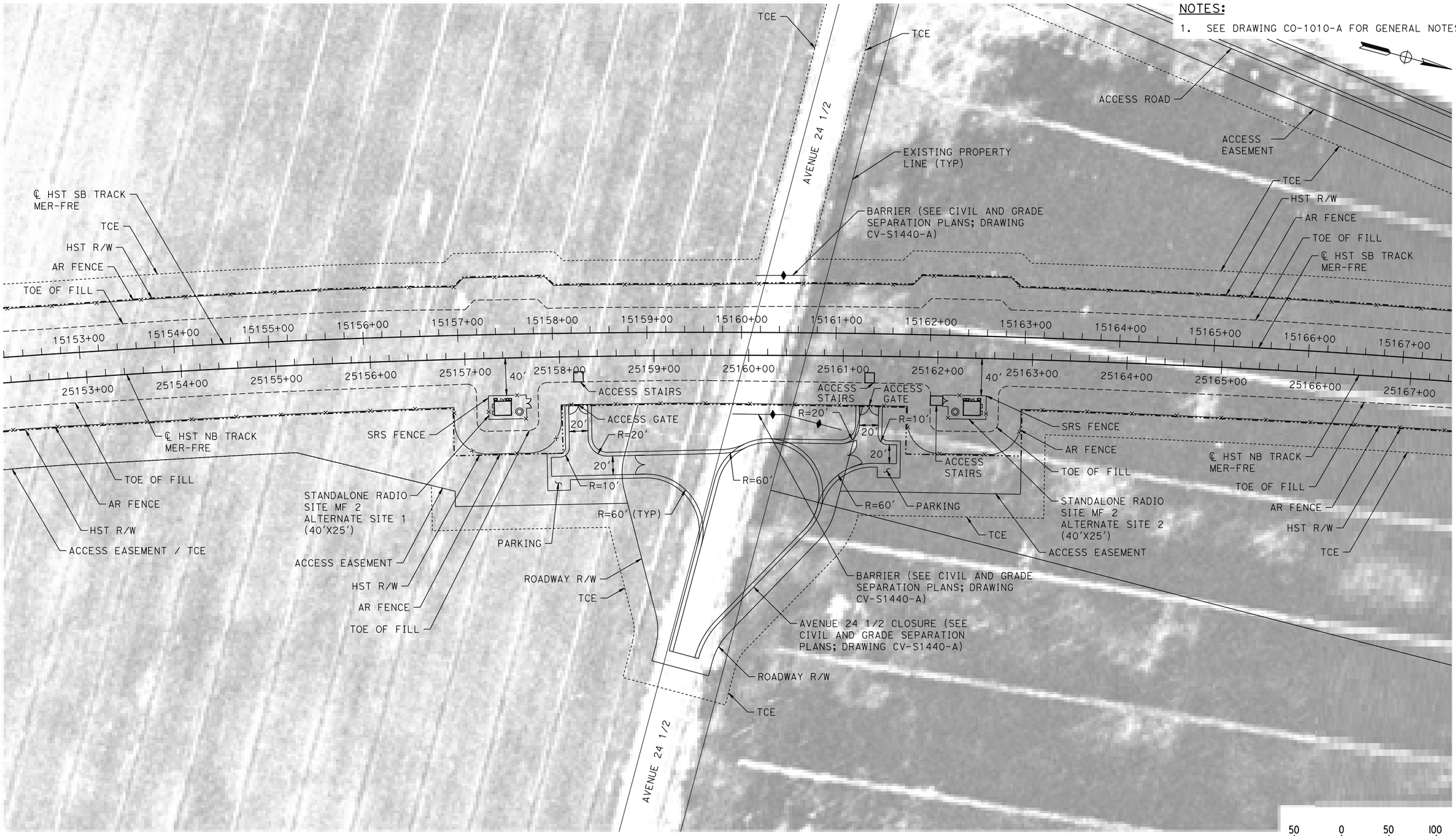
CONTRACT NO. HSR08-05
DRAWING NO. CO-F1261-A
SCALE AS SHOWN
SHEET NO.

MF-CO-F1261-A.dgn 07-MAR-2016 7:38 p005133a

MADERA COUNTY

NOTES:

1. SEE DRAWING CO-1010-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

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PARSONS

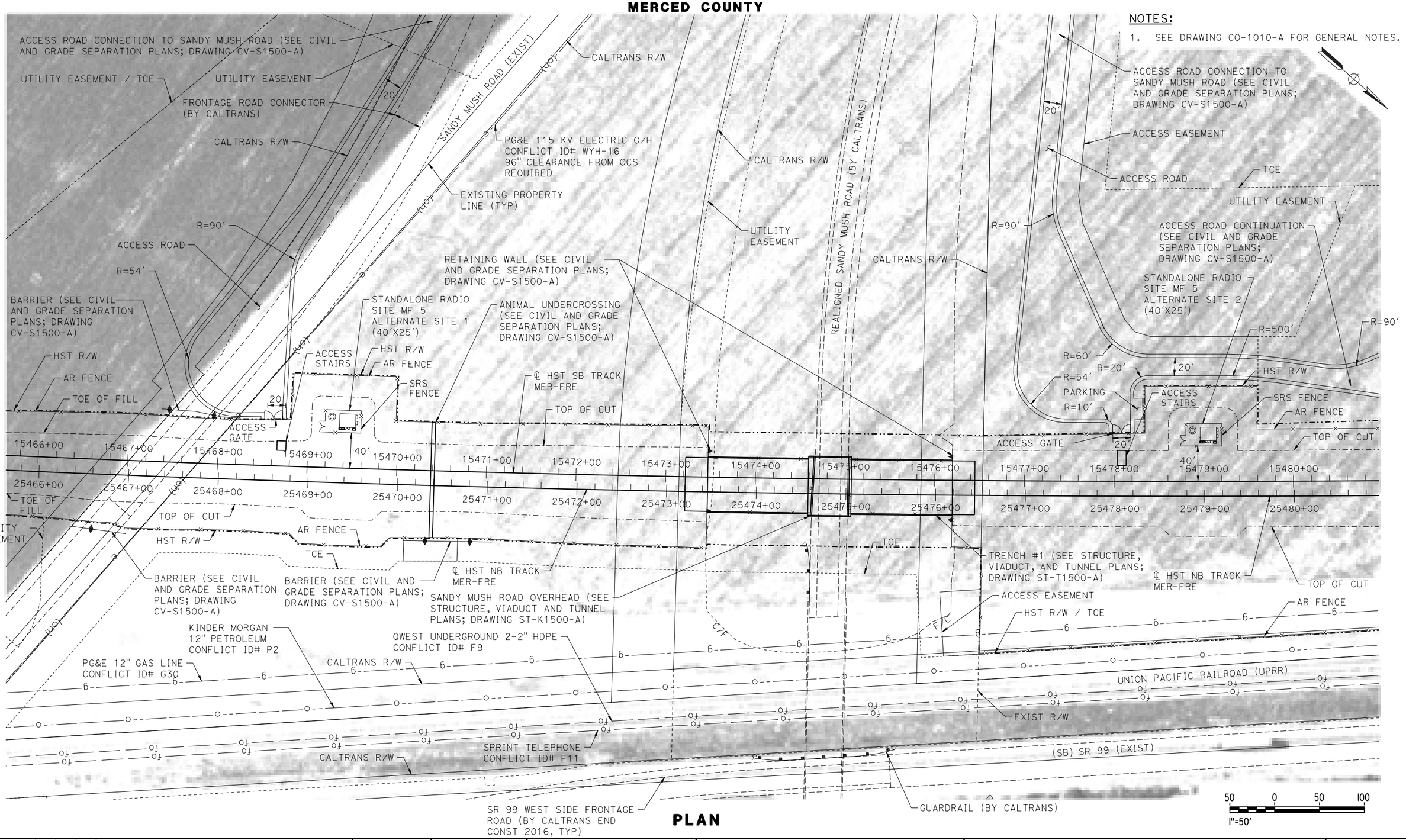
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE MF 2 ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. CO-F1440-A
SCALE AS SHOWN
SHEET NO.

MF-CO-F1440-A.dgn
18-MAR-2016 14:40
p005133A

MERCED COUNTY



NOTES:

1. SEE DRAWING CO-1010-A FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE MF 5 ALTERNATE SITES 1 & 2

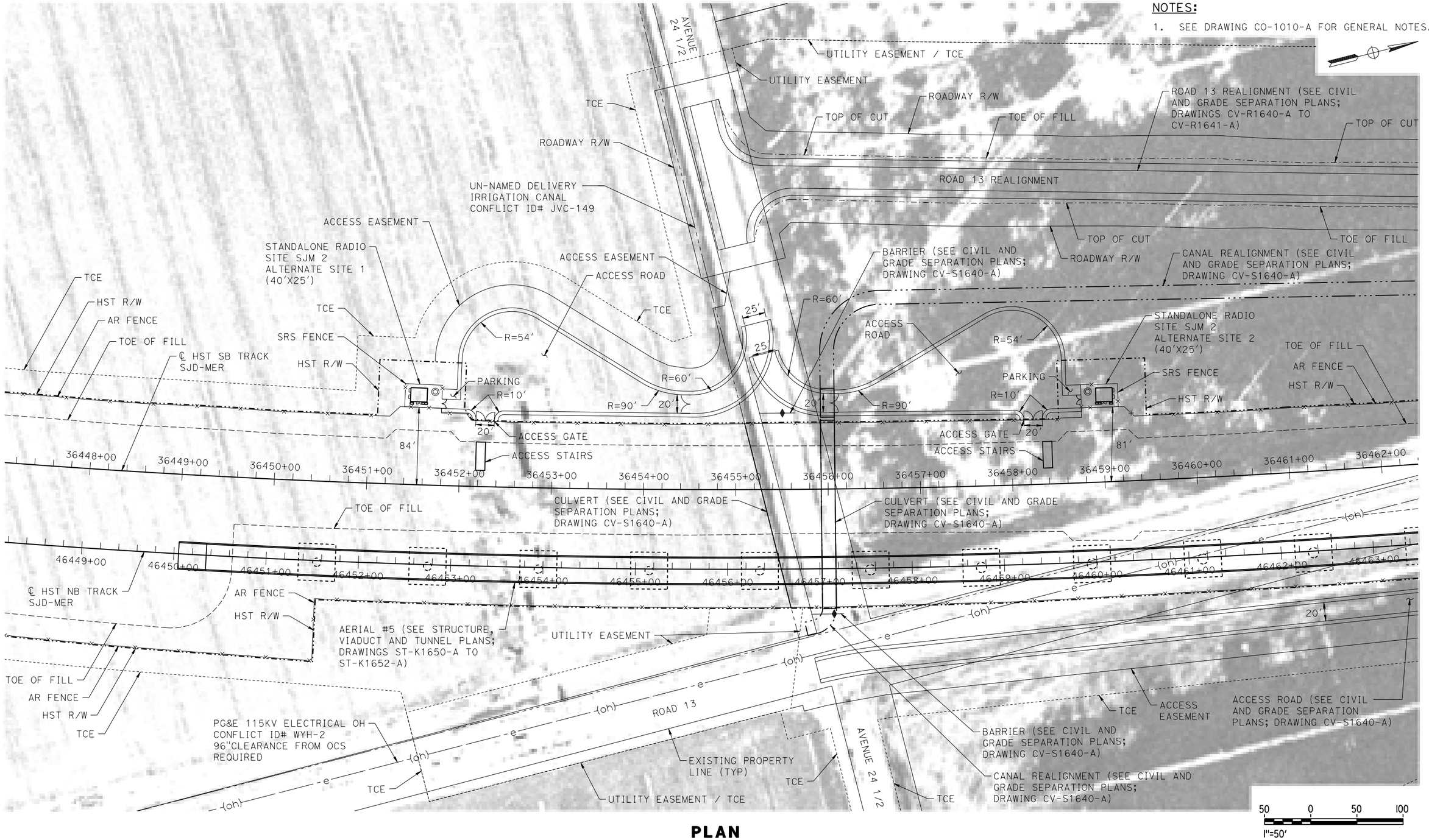
CONTRACT NO. HSR08-05
DRAWING NO. CO-F1500-A
SCALE AS SHOWN
SHEET NO.

MF-CO-F1500-A.dgn
18-MAR-2016 09:38
p005133a

MADERA COUNTY

NOTES:

1. SEE DRAWING CO-1010-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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PARSONS

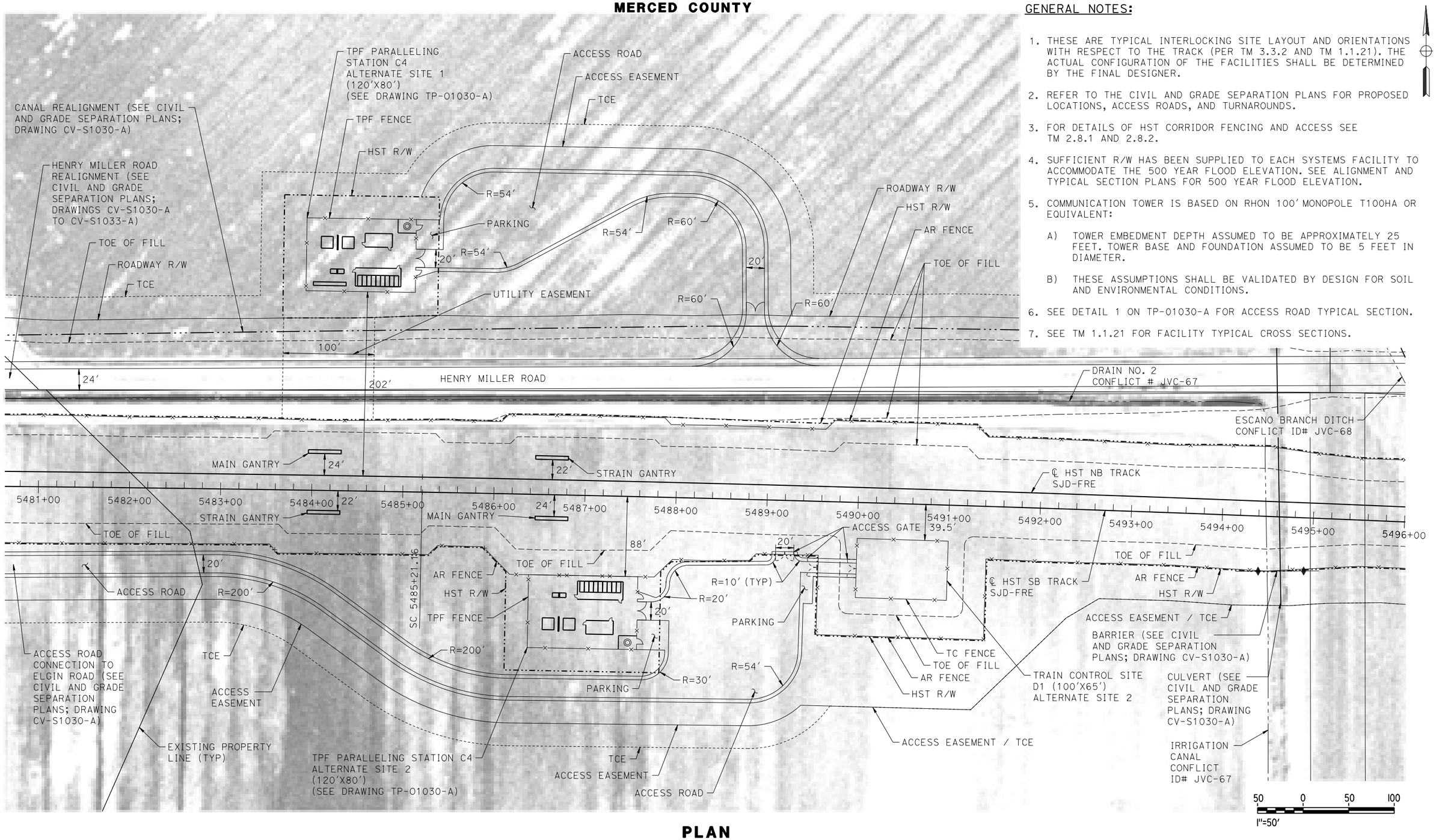
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJM 2 ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. CO-F1640-A
SCALE AS SHOWN
SHEET NO.

18-MAR-2016 09:40 MF-CO-F1640-A.dgn
p0051330

MERCED COUNTY



PLAN

GENERAL NOTES:

1. THESE ARE TYPICAL INTERLOCKING SITE LAYOUT AND ORIENTATIONS WITH RESPECT TO THE TRACK (PER TM 3.3.2 AND TM 1.1.21). THE ACTUAL CONFIGURATION OF THE FACILITIES SHALL BE DETERMINED BY THE FINAL DESIGNER.
2. REFER TO THE CIVIL AND GRADE SEPARATION PLANS FOR PROPOSED LOCATIONS, ACCESS ROADS, AND TURNAROUNDS.
3. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND 2.8.2.
4. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
5. COMMUNICATION TOWER IS BASED ON RHON 100' MONOPOLE T100HA OR EQUIVALENT:
   - A) TOWER EMBEDMENT DEPTH ASSUMED TO BE APPROXIMATELY 25 FEET. TOWER BASE AND FOUNDATION ASSUMED TO BE 5 FEET IN DIAMETER.
   - B) THESE ASSUMPTIONS SHALL BE VALIDATED BY DESIGN FOR SOIL AND ENVIRONMENTAL CONDITIONS.
6. SEE DETAIL 1 ON TP-01030-A FOR ACCESS ROAD TYPICAL SECTION.
7. SEE TM 1.1.21 FOR FACILITY TYPICAL CROSS SECTIONS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
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DATE 03/18/2016

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D1 ALTERNATE SITE 2

CONTRACT NO. HSR08-05
DRAWING NO. TC-F1030-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1030-A.dgn
08-MAR-2016 14:37
p0051330

MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.

TCE
DRAIN NO. 5 CONFLICT ID# JVC-86
VERIZON 6 PAIR COPPER CABLE BURIED CONFLICT ID# JVC-57
CULVERT (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-A)
CULVERT (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-A)
HENRY MILLER ROAD REALIGNMENT (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-R1030-A TO CV-R1033-A
GUARDRAIL (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-A) (TYP)
INDIANA ROAD
INDIANA ROAD GRADE SEPARATION (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-R1050-A TO CV-R1051-A)
ACCESS EASEMENT / TCE
ROADWAY R/W
TOE OF FILL
ROADWAY R/W
TCE
UTILITY EASEMENT
ISLAND FIELD DRAIN CONFLICT ID# JVC-87
CANAL REALIGNMENT (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-A)
ACCESS EASEMENT
TOE OF FILL
ROADWAY R/W
EXISTING PROPERTY LINE (TYP)
INDIANA ROAD OVERHEAD (SEE STRUCTURE, VIADUCT AND TUNNEL PLAN; DRAWING ST-K1050-A)
TRAIN CONTROL SITE D1 (100'X65') ALTERNATE SITE 1
TOE OF FILL
REALIGNED HENRY MILLER ROAD
UTILITY EASEMENT
ACCESS ROAD
TOE OF FILL
TC FENCE
ROADWAY R/W
R=60', TYP
R=54'
HST R/W
AR FENCE
TOE OF FILL
ROADWAY R/W
R=60'
PARKING
HST R/W
R=10'
R=90'
20'
20'
AR FENCE
ACCESS EASEMENT
ACCESS GATE
20'
39.5'
0+00
5561+00
5562+00
5563+00
5564+00
5565+00
5566+00
5567+00
5568+00
5569+00
5570+00
5571+00
5572+00
5573+00
5574+00
5575+00
℄ HST NB TRACK SJD-FRE
℄ HST SB TRACK SJD-FRE
TOE OF FILL
CULVERT (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-A)
ACCESS EASEMENT / TCE
TOE OF FILL
AR FENCE
HST R/W
UTILITY EASEMENT
HST R/W
AR FENCE
CANAL REALIGNMENT (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-A)
BARRIER (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-A)
ACCESS EASEMENT
CULVERT (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-A)
ROADWAY R/W
UTILITY EASEMENT / TCE
TOE OF FILL
CANAL REALIGNMENT (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWING CV-S1050-A)
SANTA RITA DITCH CONFLICT ID# JVC-88
TCE
50 0 50 100
1"=50'

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D1 ALTERNATE SITE 1

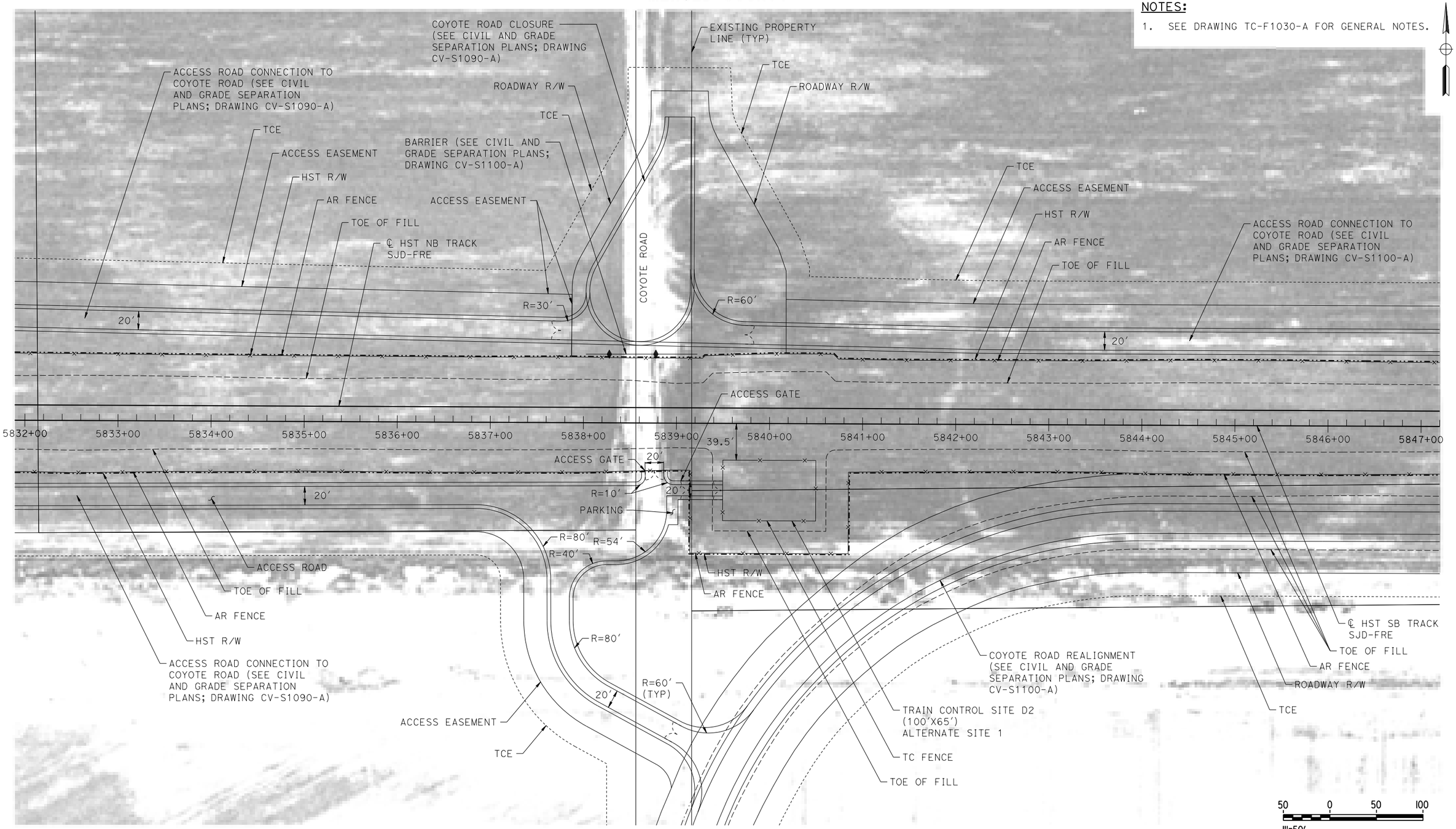
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1050-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1050-A.dgn
18-MAR-2016 09:41
p0051133a

MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D2 ALTERNATE SITE 1

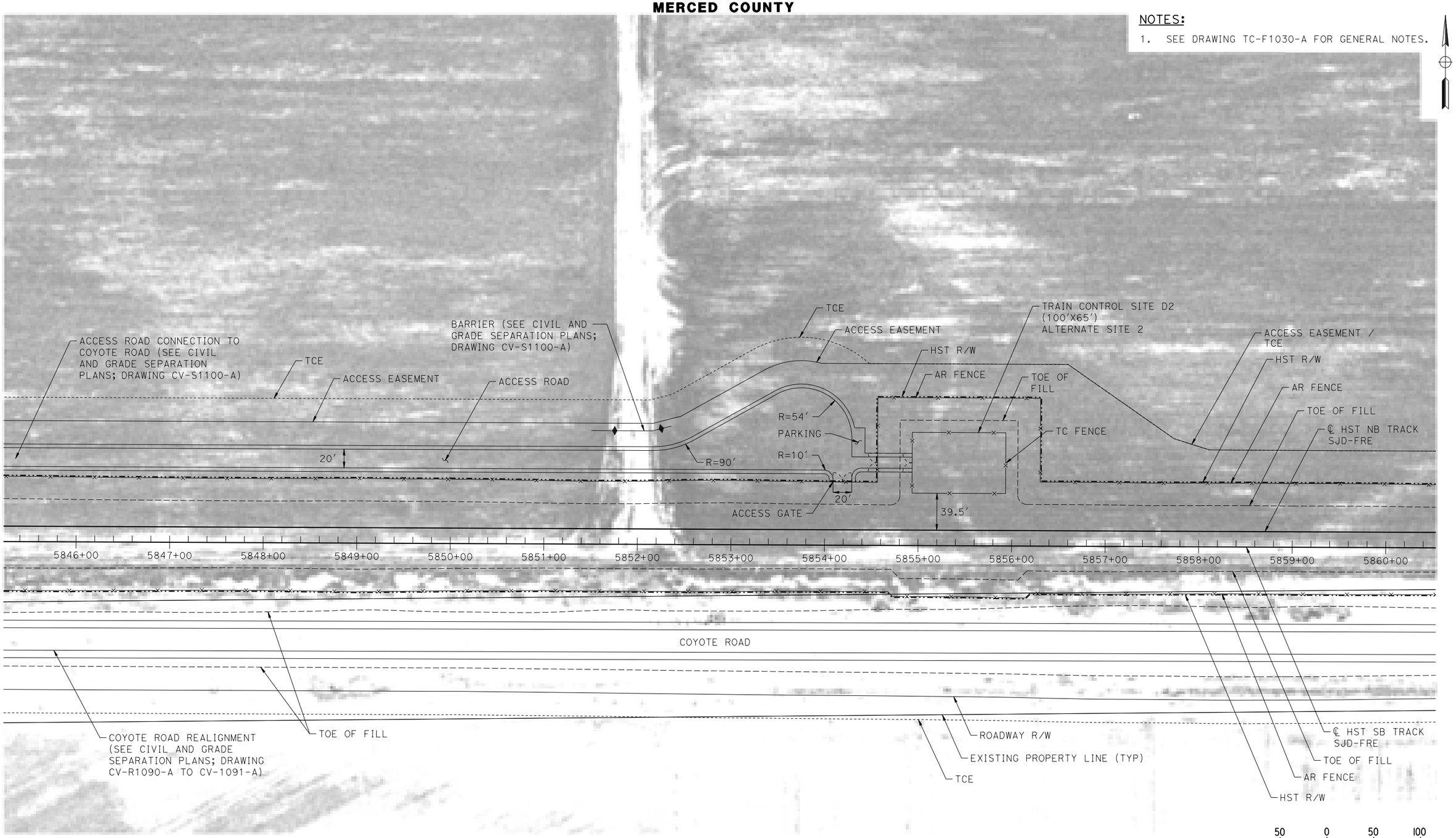
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1090-A
SCALE AS SHOWN
SHEET NO.

18-MAR-2016 09:42 WF-TC-F1090-A.dgn
p0051330

MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D2 ALTERNATE SITE 2

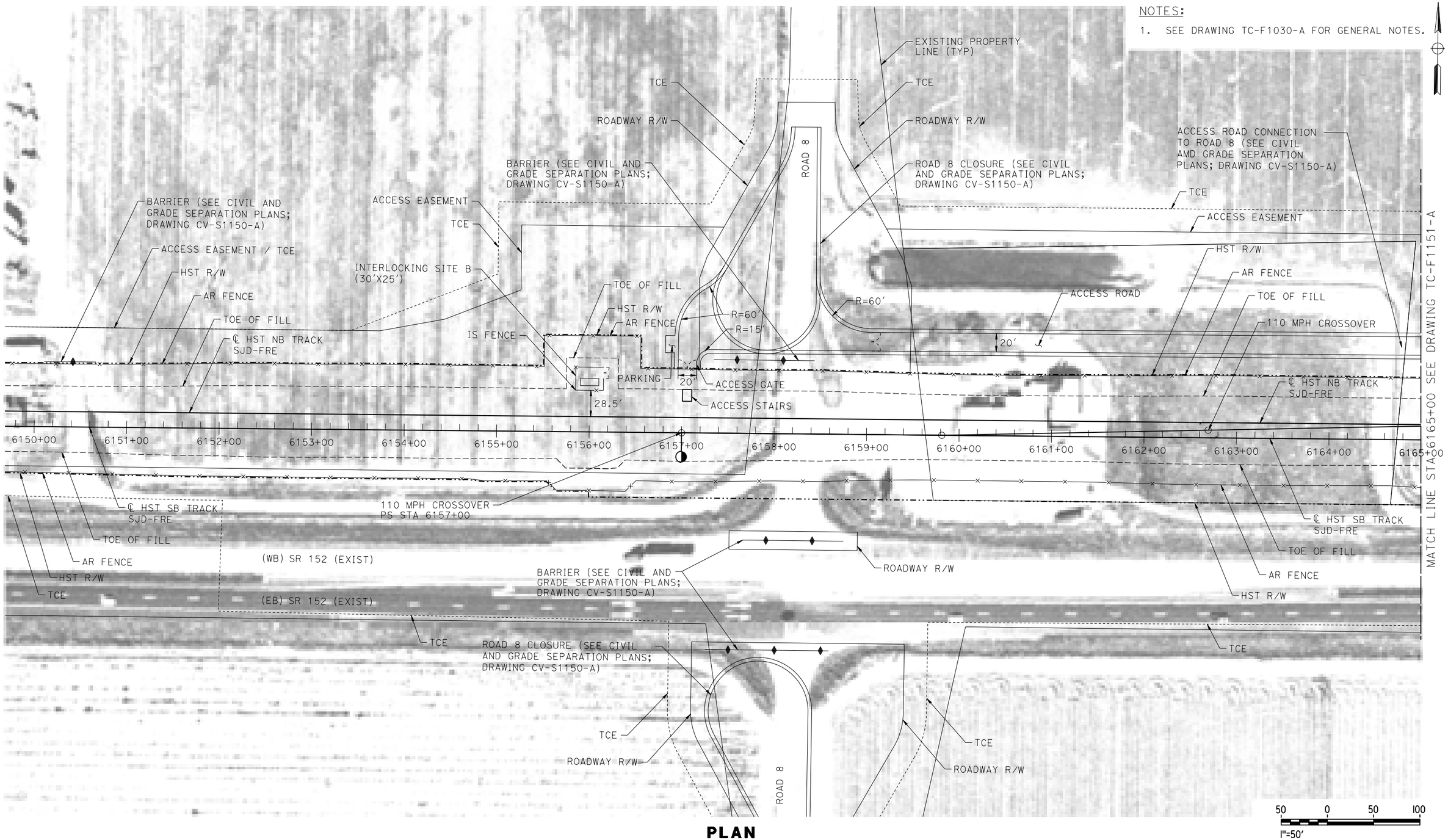
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1100-A
SCALE AS SHOWN
SHEET NO.

p005133a 18-MAR-2016 09:43 MF-TC-F1100-A.dgn

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6156+00

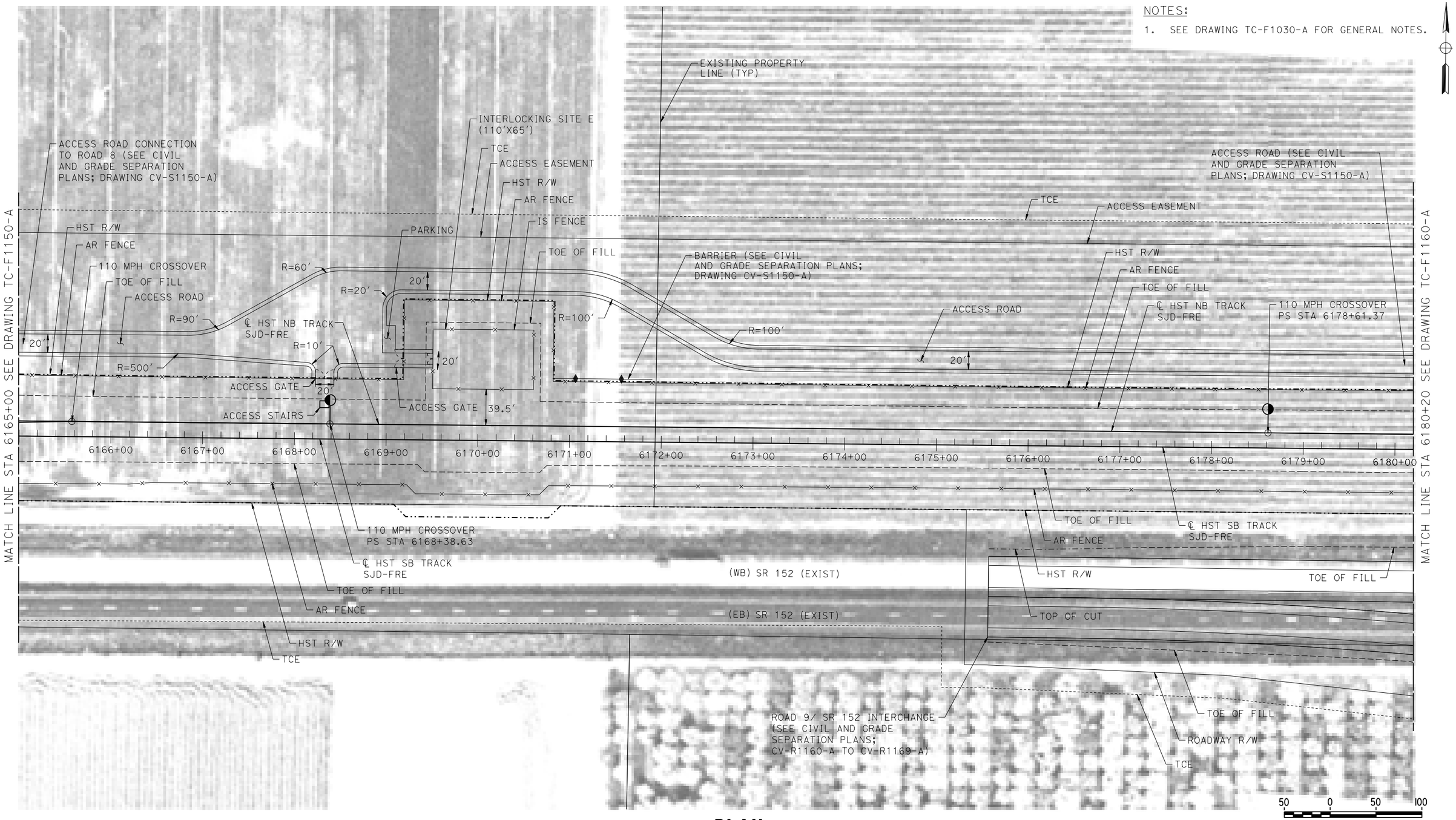
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1150-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1150-A.dgn
18-MAR-2016 09:44
p0051330

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY N. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE E @ 6170+00

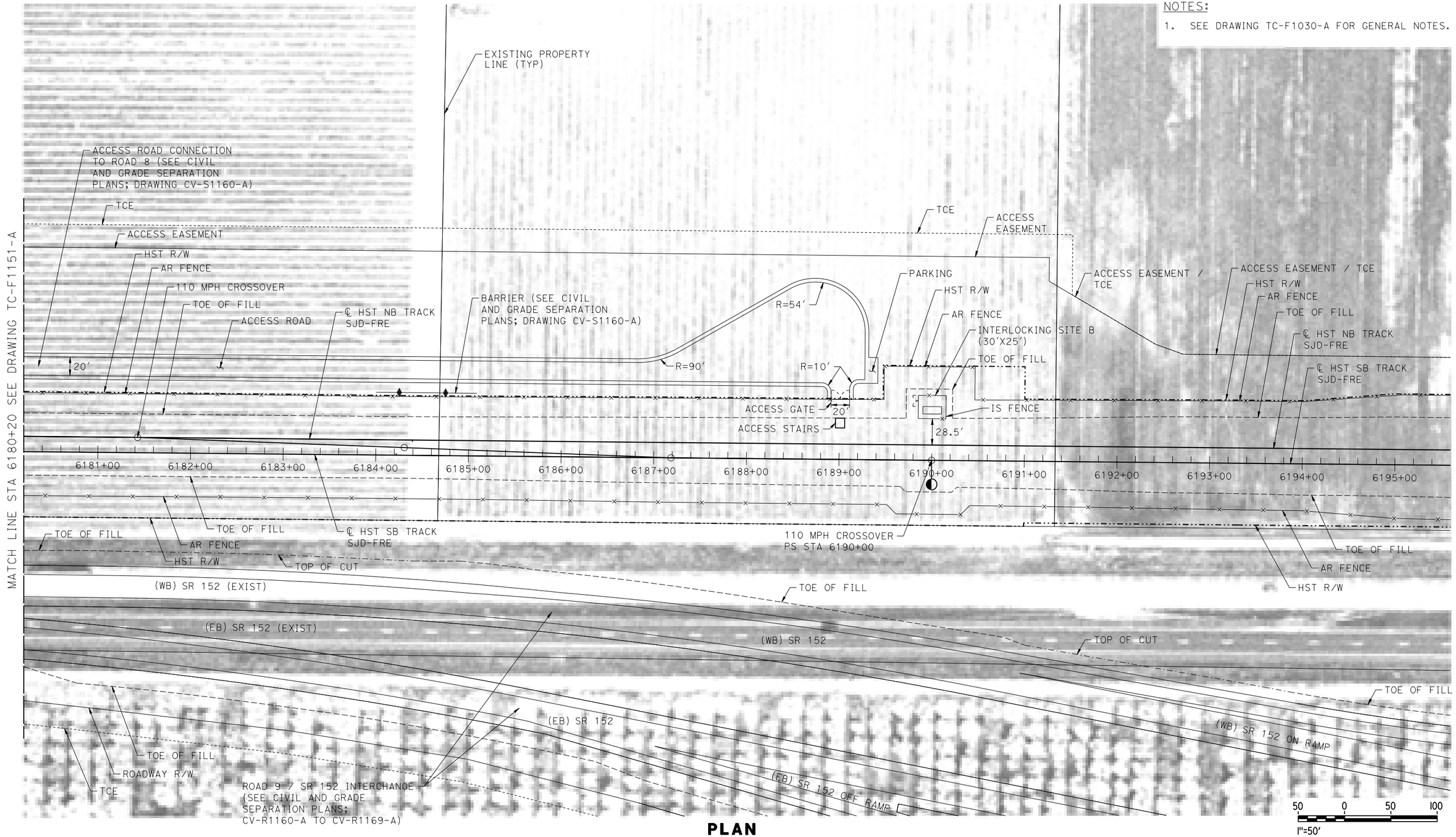
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1151-A
SCALE AS SHOWN
SHEET NO.

p005133a 18-MAR-2016 09:45 MF-TC-F1151-A.dgn

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET 15% DESIGN SUBMITTAL

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6190+00

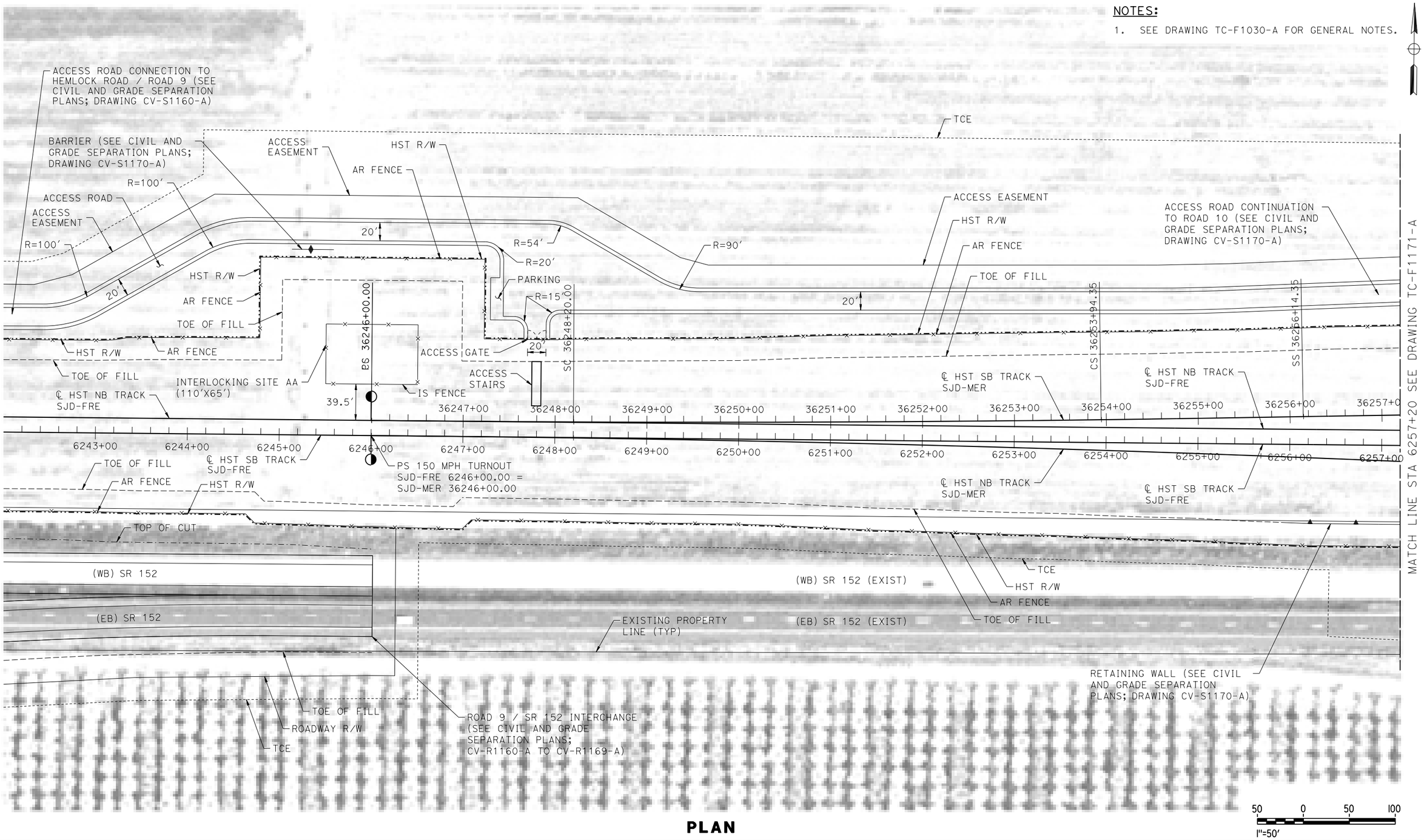
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1160-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1160-A.dgn 08-MAR-2016 4:43 p005133a

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
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DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AA @ 6246+00

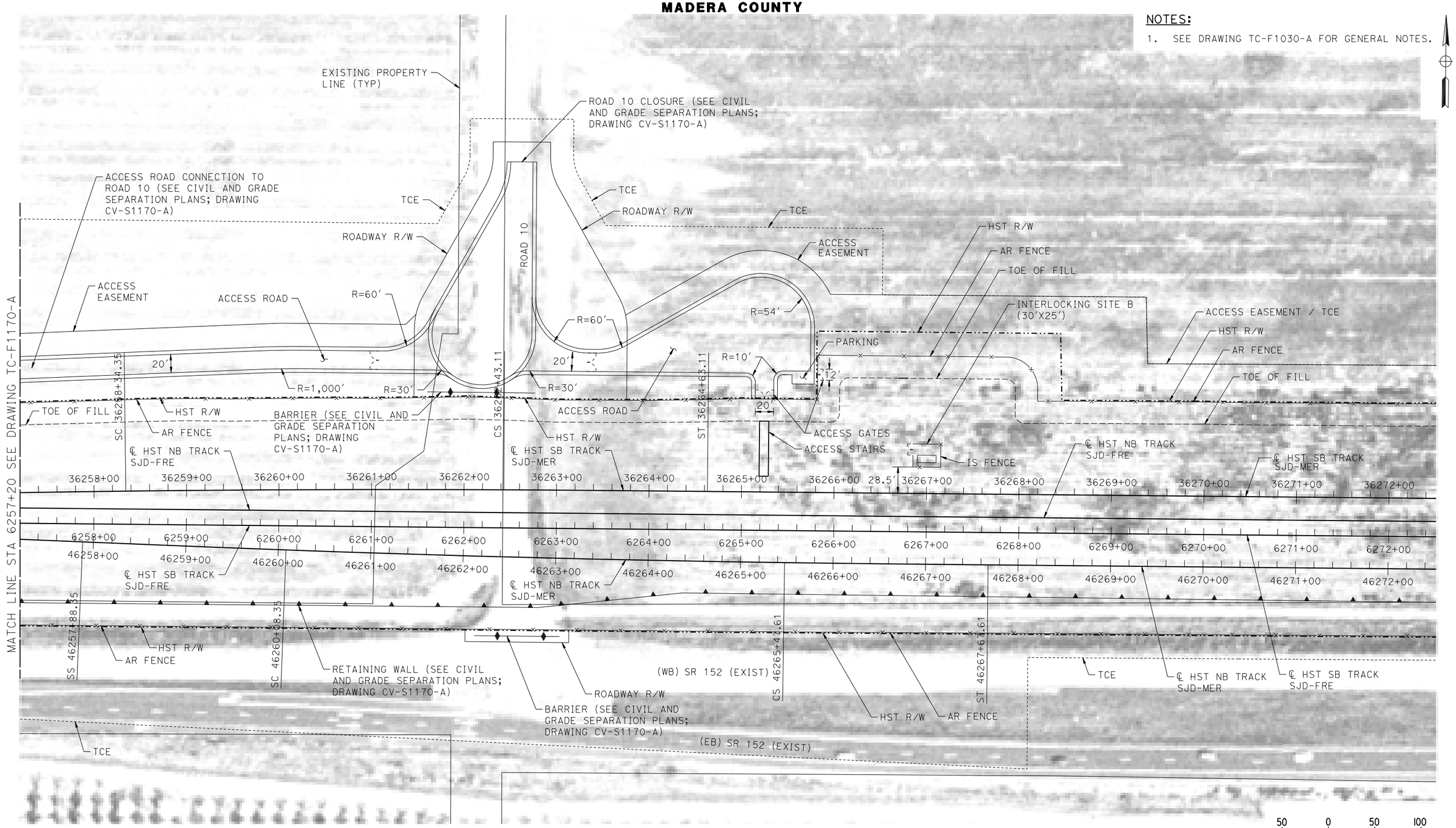
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1170-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1170-A.dgn
18-MAR-2016 09:46
p0051330

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

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IN CHARGE C. LEMLEY
DATE 03/18/2016

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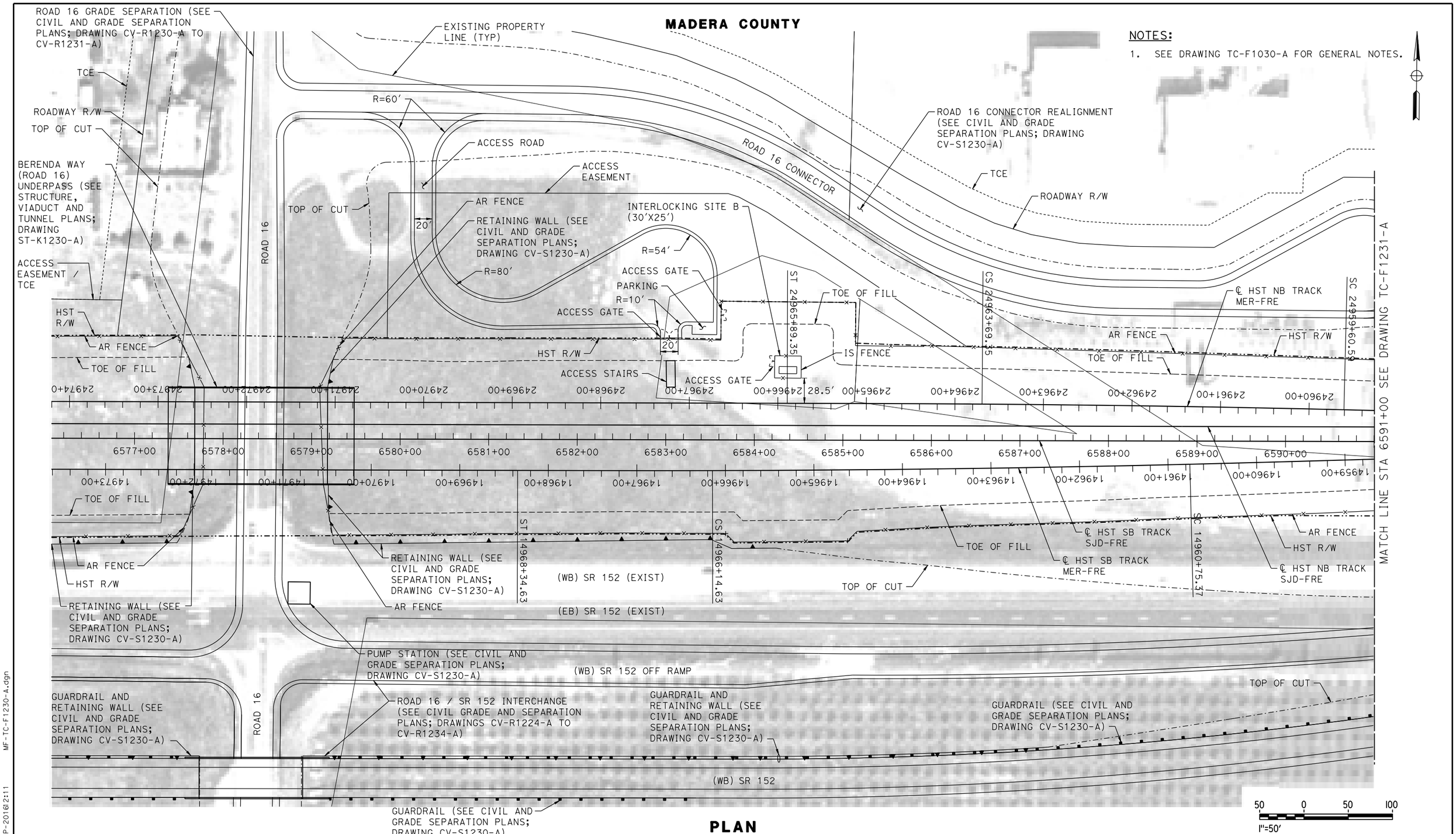
PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6267+00

CONTRACT NO. HSR08-05
DRAWING NO. TC-F1171-A
SCALE AS SHOWN
SHEET NO.

p0051330 08-MAR-2016 4:44 MF-TC-F1171-A.dgn



NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY K. MA
IN CHARGE C. LEMLEY
DATE 09/09/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6584+50

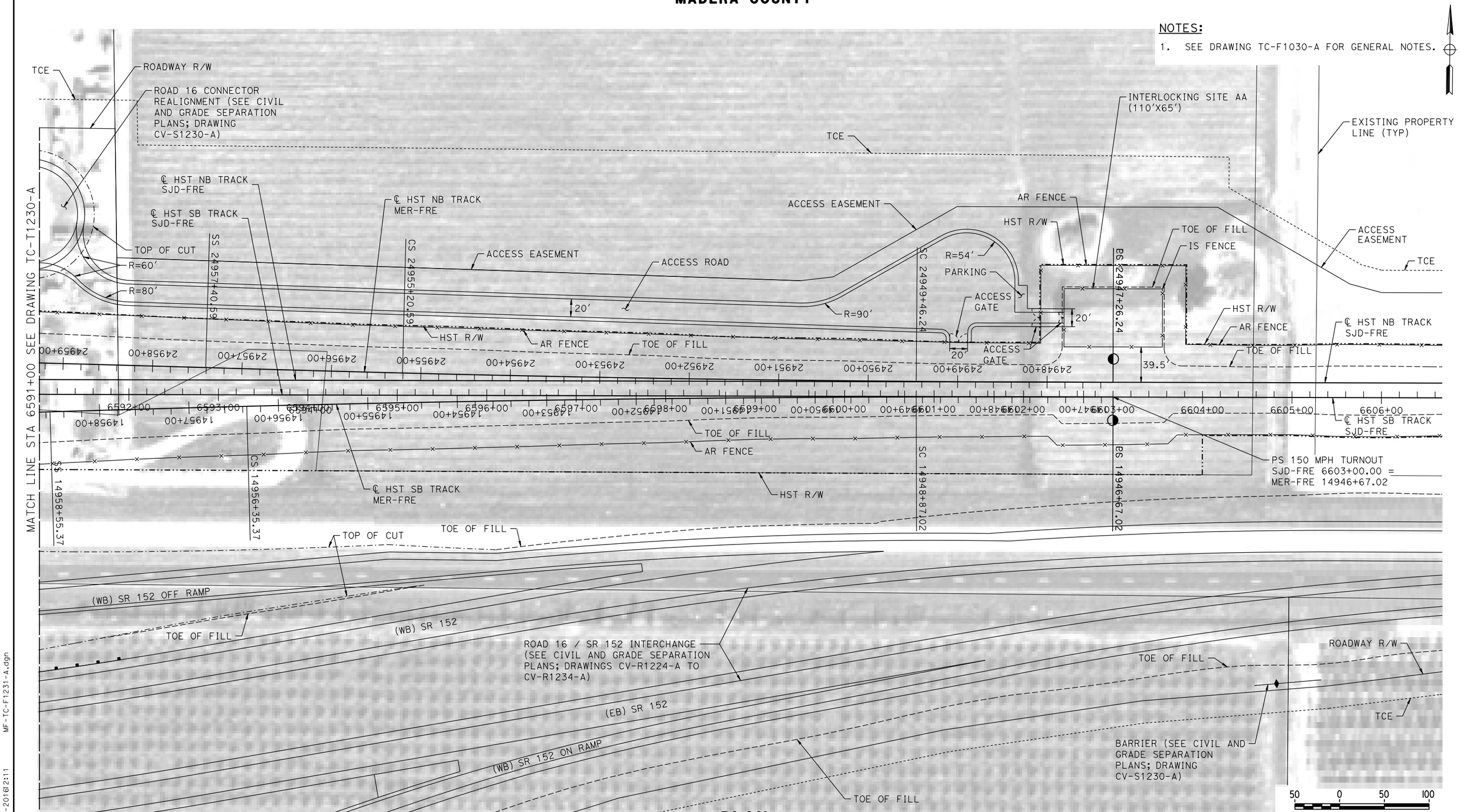
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1230-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1230-A.dgn
02-SEP-2016 2:11
p0042226

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY K. MA
IN CHARGE C. LEMLEY
DATE 09/09/2016

RECORD SET
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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AA @ 6603+00

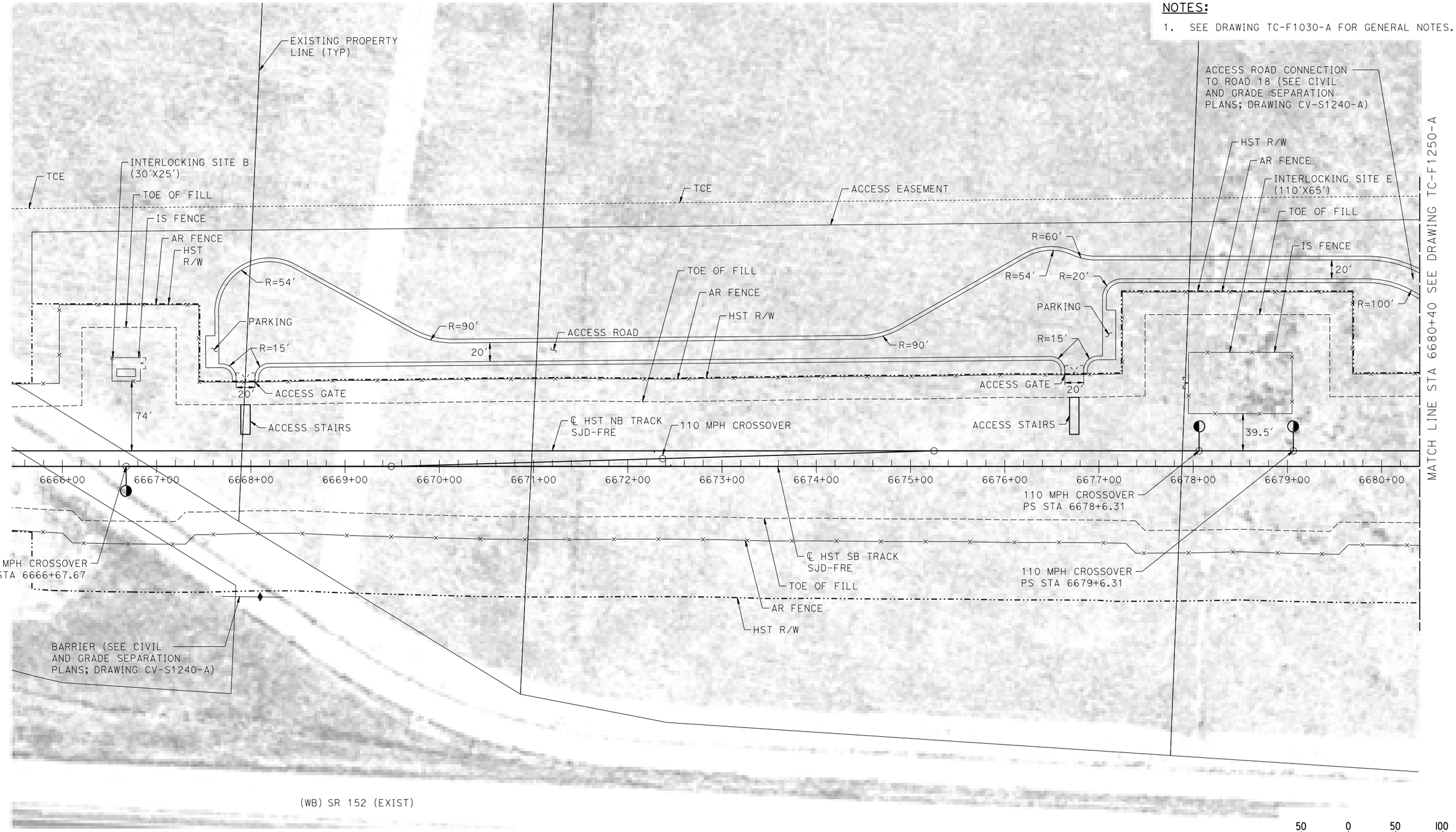
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1231-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1231-A.dgn
02-SEP-2016 12:11
p0042226

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY M. TACTAY
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DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6666+68 & SITE E @ 6678+50

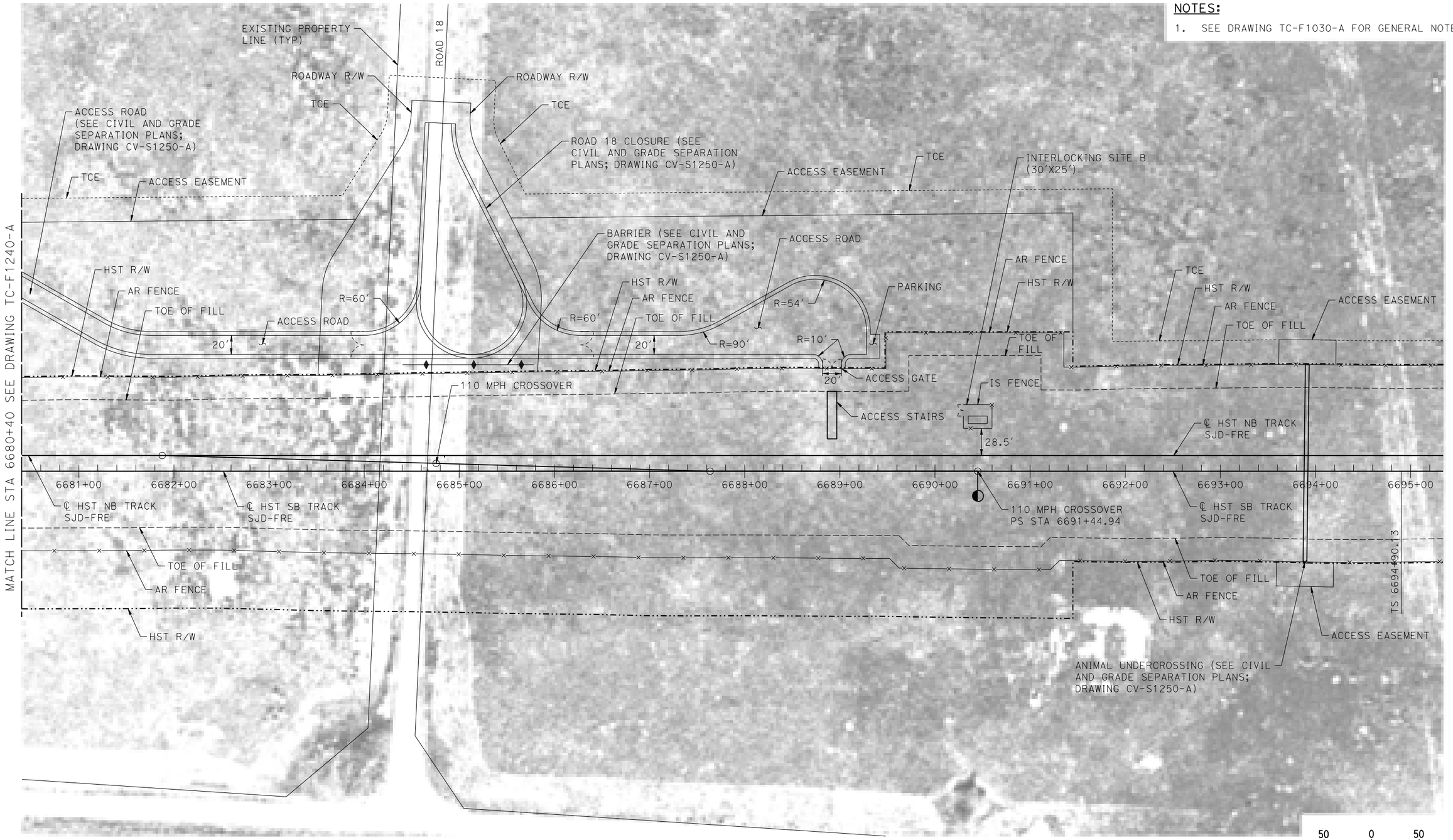
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1240-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1240-A.dgn
18-MAR-2016 09:49
p005133a

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



50 0 50 100

1"=50'

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6690+45

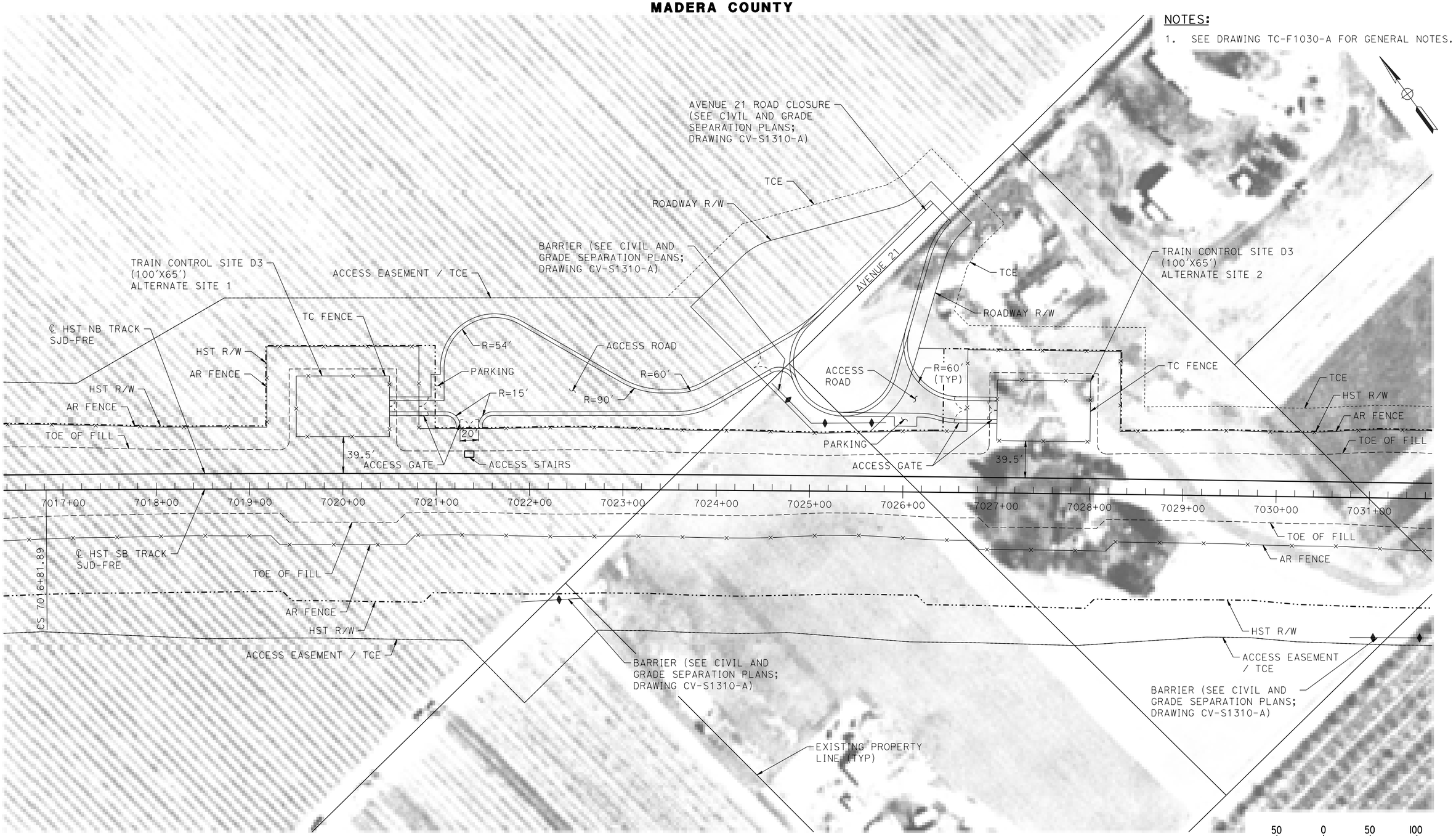
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1250-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1250-A.dgn 08-MAR-2016 4:48 p005133a

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D3 ALTERNATE SITES 1 & 2

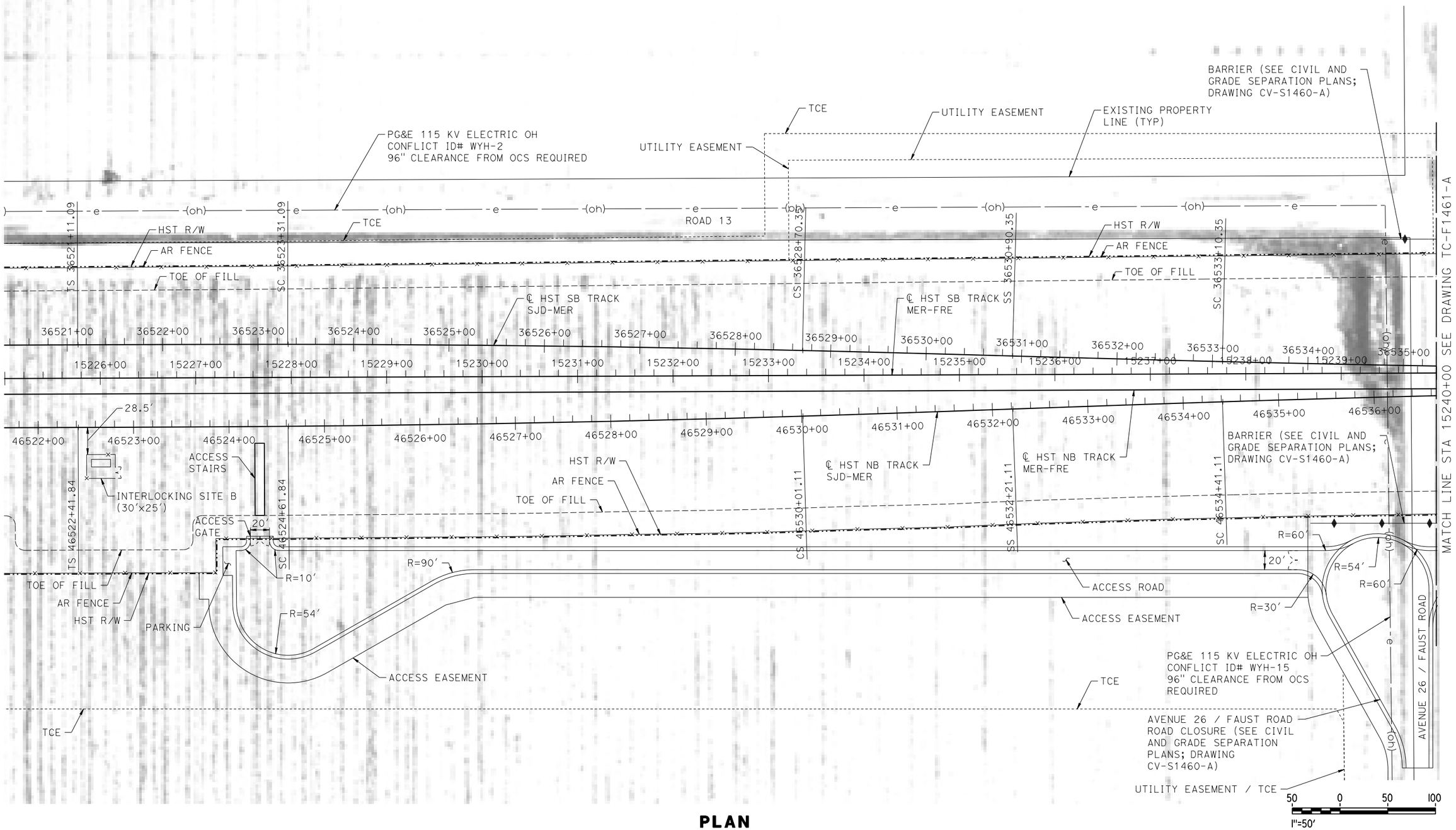
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1310-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1310-A.dgn
18-MAR-2016 09:50
p0051133a

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 15226+00

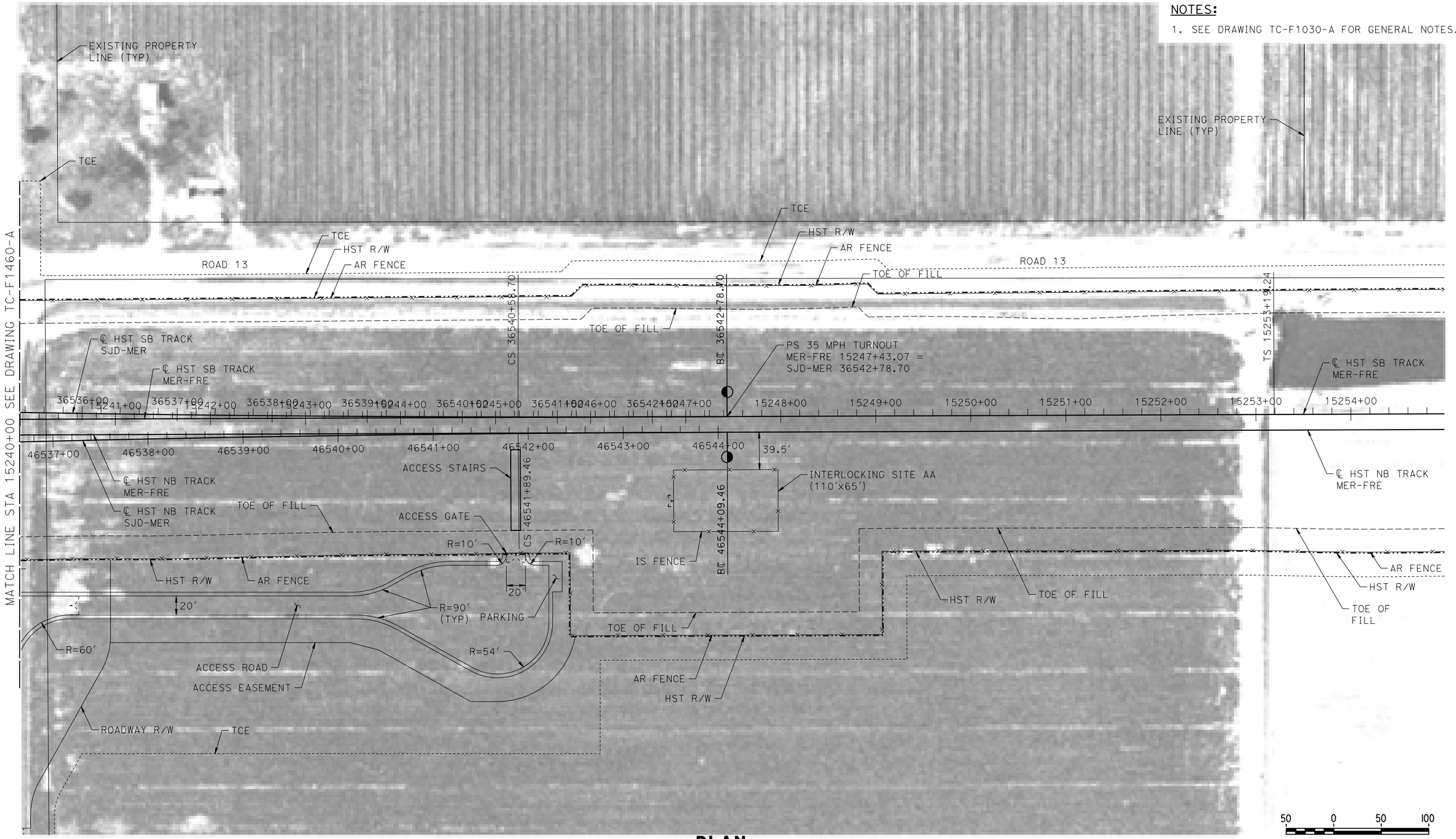
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1460-A
SCALE AS SHOWN
SHEET NO.

p0051330 08-MAR-2016 4:50 MF-TC-F1460-A.dgn

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

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IN CHARGE C. LEMLEY
DATE 03/18/2016

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PARSONS

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AA @ 15247+50

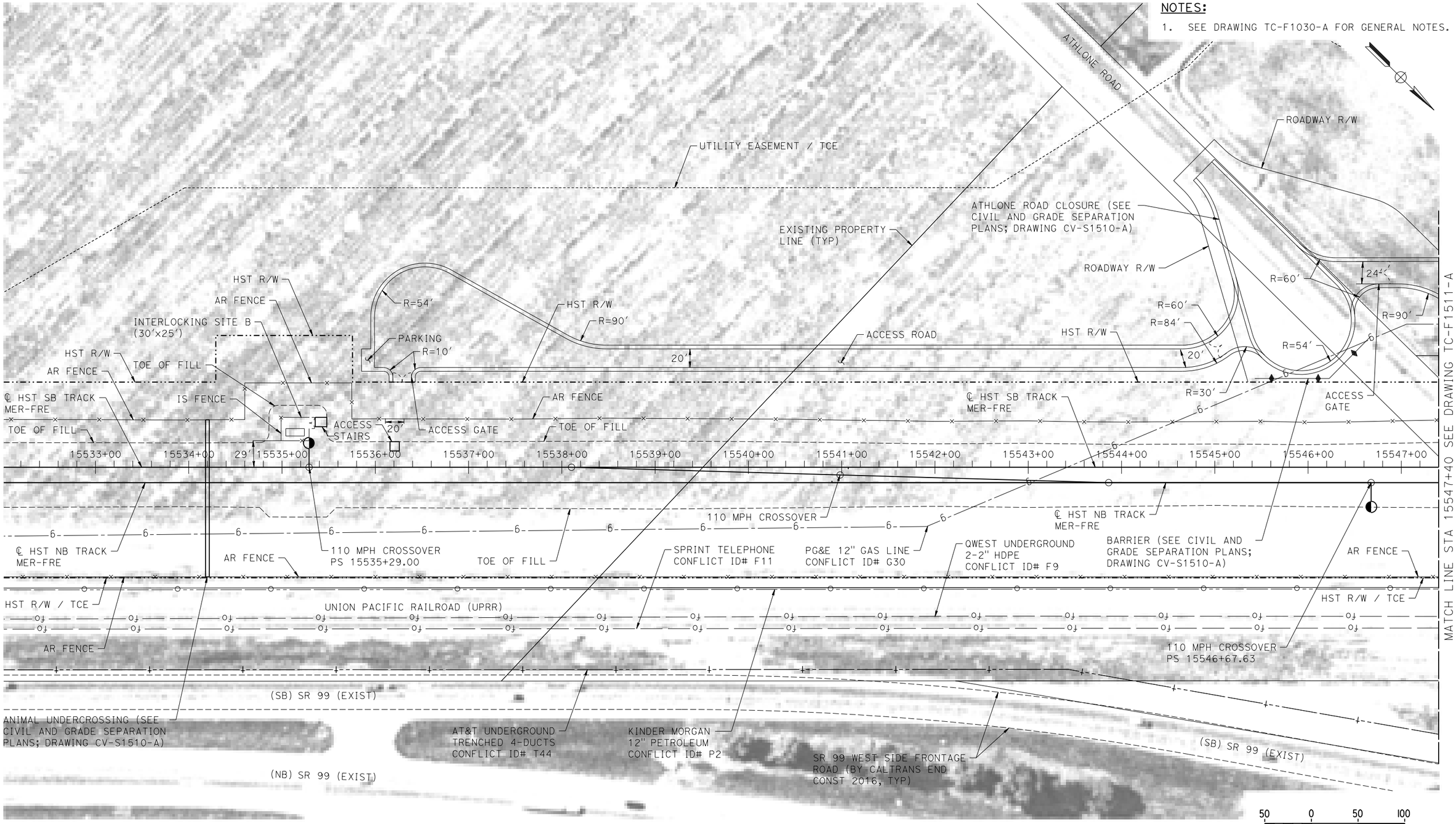
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1461-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1461-A.dgn
08-MAR-2016 4:51
p0051330

MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 15535+00

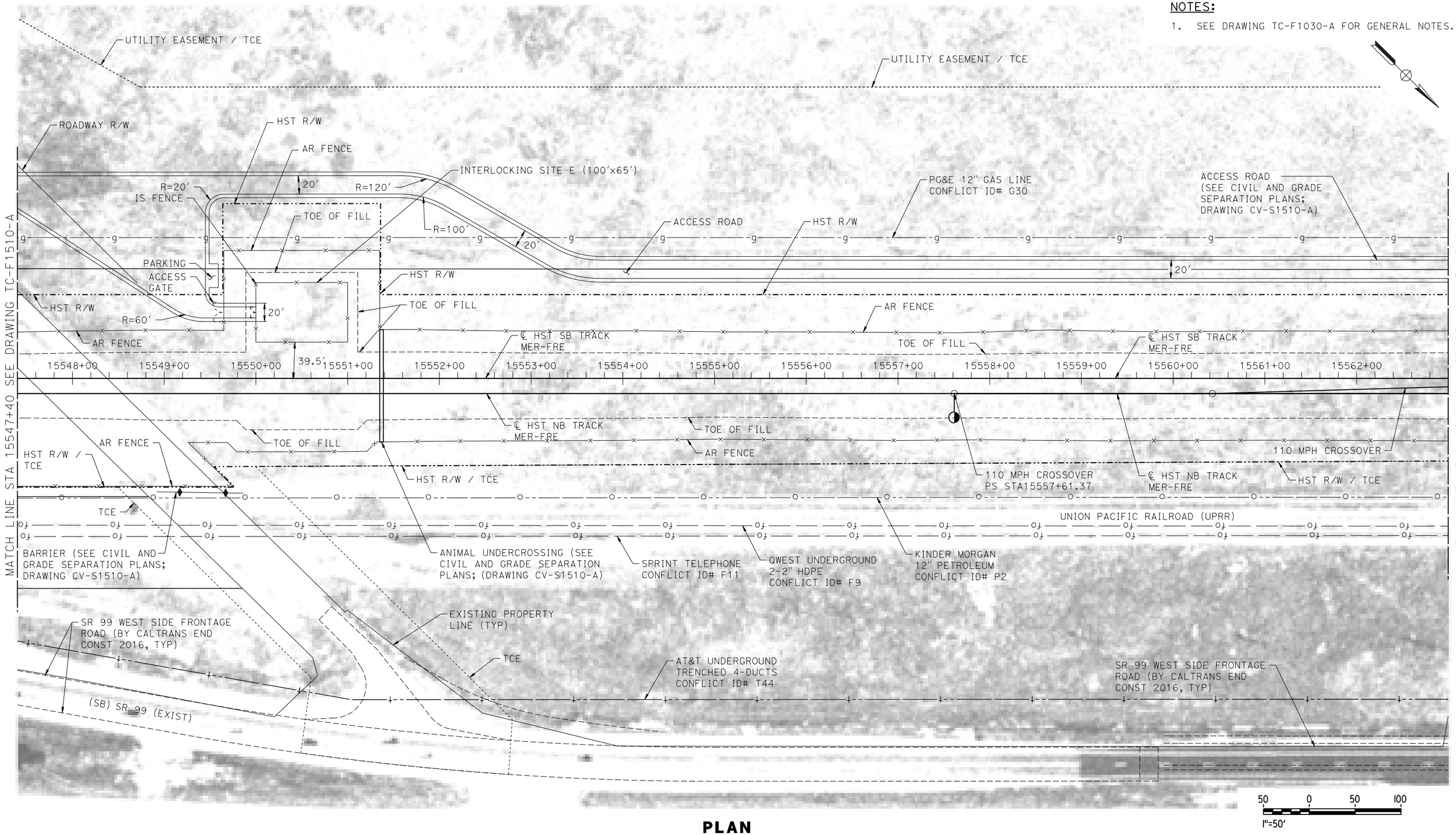
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1510-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1510-A.dgn
18-MAR-2016 15:25
p0051330

MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE E @ 15550+50

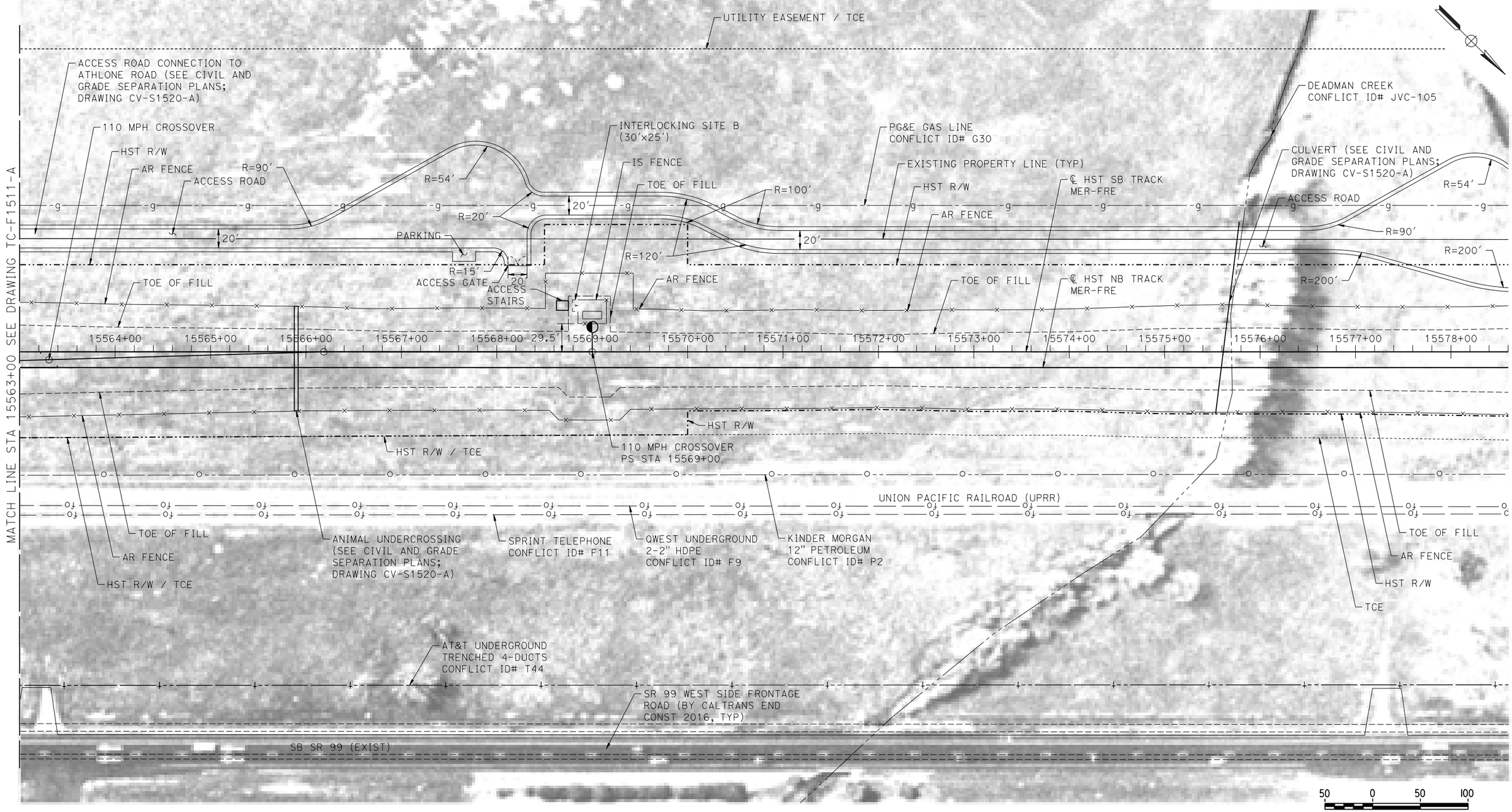
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1511-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1511-A.dgn
18-MAR-2016 09:52
p0051330

MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-A FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 15569+00

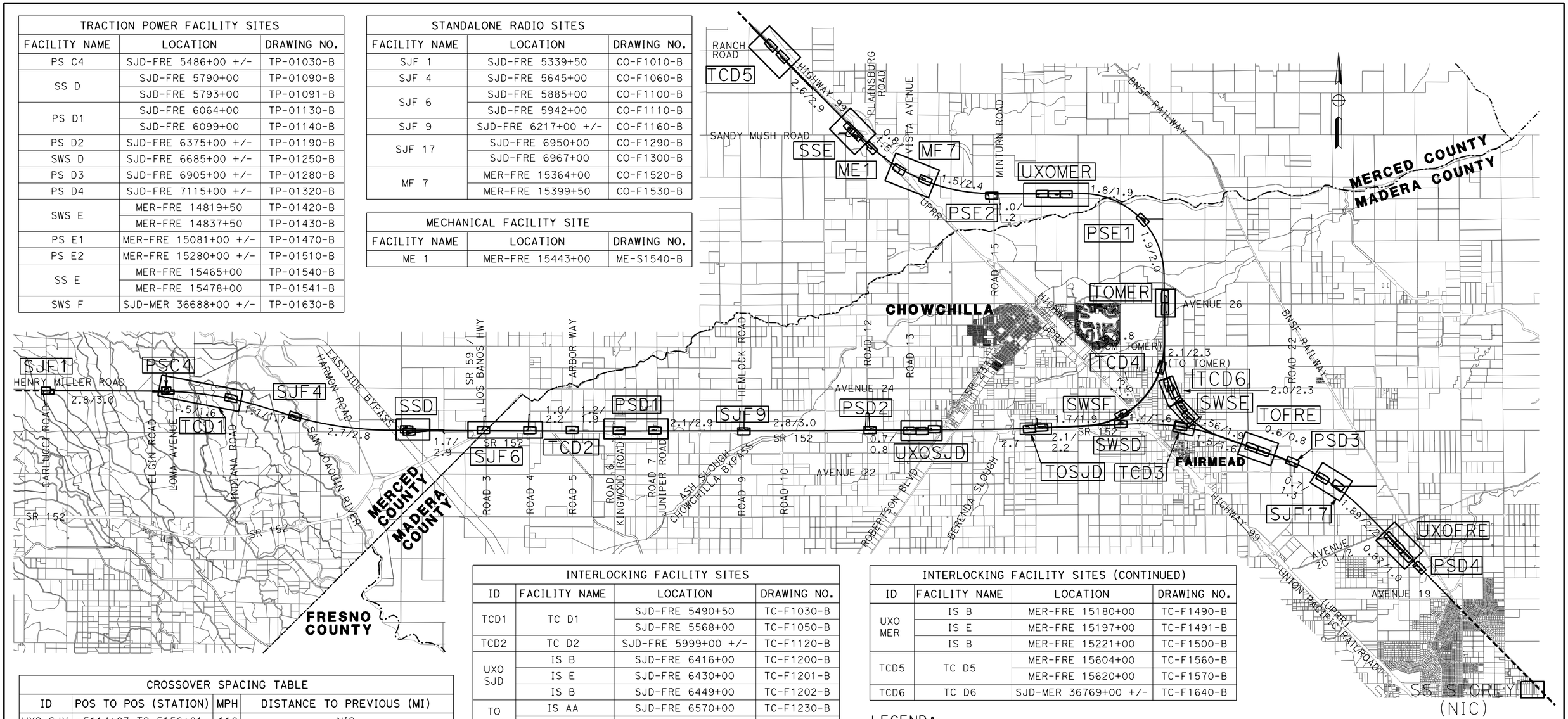
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1520-A
SCALE AS SHOWN
SHEET NO.

MF-TC-F1520-A.dgn 18-MAR-2016 09:53 p005133a

TRACTION POWER FACILITY SITES		
FACILITY NAME	LOCATION	DRAWING NO.
PS C4	SJD-FRE 5486+00 +/-	TP-01030-B
SS D	SJD-FRE 5790+00	TP-01090-B
	SJD-FRE 5793+00	TP-01091-B
PS D1	SJD-FRE 6064+00	TP-01130-B
	SJD-FRE 6099+00	TP-01140-B
PS D2	SJD-FRE 6375+00 +/-	TP-01190-B
SWS D	SJD-FRE 6685+00 +/-	TP-01250-B
PS D3	SJD-FRE 6905+00 +/-	TP-01280-B
PS D4	SJD-FRE 7115+00 +/-	TP-01320-B
SWS E	MER-FRE 14819+50	TP-01420-B
	MER-FRE 14837+50	TP-01430-B
PS E1	MER-FRE 15081+00 +/-	TP-01470-B
PS E2	MER-FRE 15280+00 +/-	TP-01510-B
SS E	MER-FRE 15465+00	TP-01540-B
	MER-FRE 15478+00	TP-01541-B
SWS F	SJD-MER 36688+00 +/-	TP-01630-B

STANDALONE RADIO SITES		
FACILITY NAME	LOCATION	DRAWING NO.
SJF 1	SJD-FRE 5339+50	CO-F1010-B
SJF 4	SJD-FRE 5645+00	CO-F1060-B
SJF 6	SJD-FRE 5885+00	CO-F1100-B
	SJD-FRE 5942+00	CO-F1110-B
SJF 9	SJD-FRE 6217+00 +/-	CO-F1160-B
SJF 17	SJD-FRE 6950+00	CO-F1290-B
	SJD-FRE 6967+00	CO-F1300-B
MF 7	MER-FRE 15364+00	CO-F1520-B
	MER-FRE 15399+50	CO-F1530-B

MECHANICAL FACILITY SITE		
FACILITY NAME	LOCATION	DRAWING NO.
ME 1	MER-FRE 15443+00	ME-S1540-B



CROSSOVER SPACING TABLE			
ID	POS TO POS (STATION)	MPH	DISTANCE TO PREVIOUS (MI)
UXO SJV	5114+03 TO 5156+81	110	NIC
UXO SJD	6416+00 TO 6449+00	110	23.85 (UXO SJV)
UXO FRE	7066+00 TO 7099+00	110	11.65 (UXO SJD) & 13.19 (UXO MER)
UXO MER	15180+00 TO 15221+00	110	11.71 (UXO SJD) & 13.19 (UXO FRE)

TURNOUT SPACING TABLE			
ID	POS (STATION)	MPH	DISTANCE TO NEAREST XO/UXO (MI)
TO SJD	SJD-FRE 6570+00	150	0.95 (SJD)
TO FRE	SJD-FRE 6868+51	150	3.71 (FRE)
TO MER	MER-FRE 14979+98	150	3.79 (MER)

INTERLOCKING FACILITY SITES			
ID	FACILITY NAME	LOCATION	DRAWING NO.
TCD1	TC D1	SJD-FRE 5490+50	TC-F1030-B
		SJD-FRE 5568+00	TC-F1050-B
TCD2	TC D2	SJD-FRE 5999+00 +/-	TC-F1120-B
UXO SJD	IS B	SJD-FRE 6416+00	TC-F1200-B
	IS E	SJD-FRE 6430+00	TC-F1201-B
	IS B	SJD-FRE 6449+00	TC-F1202-B
TO SJD	IS AA	SJD-FRE 6570+00	TC-F1230-B
	IS B	SJD-FRE 6591+50	TC-F1231-B
TCD3	TC D3	SJD-FRE 6765+00 +/-	TC-F1260-B
TO FRE	IS B	SJD-FRE 6846+80	TC-F1270-B
	IS AA	SJD-FRE 6868+50	TC-F1280-B
UXO FRE	IS B	SJD-FRE 7066+00	TC-F1310-B
	IS E	SJD-FRE 7077+00 +/-	TC-F1320-B
	IS B	SJD-FRE 7099+00	TC-F1321-B
TCD4	TC D4	MER-FRE 14858+00	TC-F1430-B
		MER-FRE 14868+00	TC-F1431-B
TO MER	IS B	MER-FRE 14958+30	TC-F1450-B
	IS AA	MER-FRE 14980+00	TC-F1451-B

INTERLOCKING FACILITY SITES (CONTINUED)			
ID	FACILITY NAME	LOCATION	DRAWING NO.
UXO MER	IS B	MER-FRE 15180+00	TC-F1490-B
	IS E	MER-FRE 15197+00	TC-F1491-B
	IS B	MER-FRE 15221+00	TC-F1500-B
TCD5	TC D5	MER-FRE 15604+00	TC-F1560-B
		MER-FRE 15620+00	TC-F1570-B
TCD6	TC D6	SJD-MER 36769+00 +/-	TC-F1640-B

LEGEND:

PSC4	FACILITY (SEE TABLES)
2.4/2.9	MIN/MAX SPACING IN MILES BETWEEN FACILITIES
FRE	FRESNO
IS	INTERLOCKING SITE
ME	MECHANICAL SITE
MER	MERCED
NIC	NOT IN CONTRACT
PS	PARALLELING STATION, POINT OF SWITCH
SJD	SAN JOSE DIRIDON
SJV	SAN JOAQUIN VALLEY
SRS	STANDALONE RADIO SITE
SS	SUBSTATION
SWS	SWITCHING STATION
TC	TRAIN CONTROL
TO	TURNOUT
TPF	TRACTION POWER FACILITY
UXO	UNIVERSAL CROSSOVER

6000 0 6000 12000
1"=6,000'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

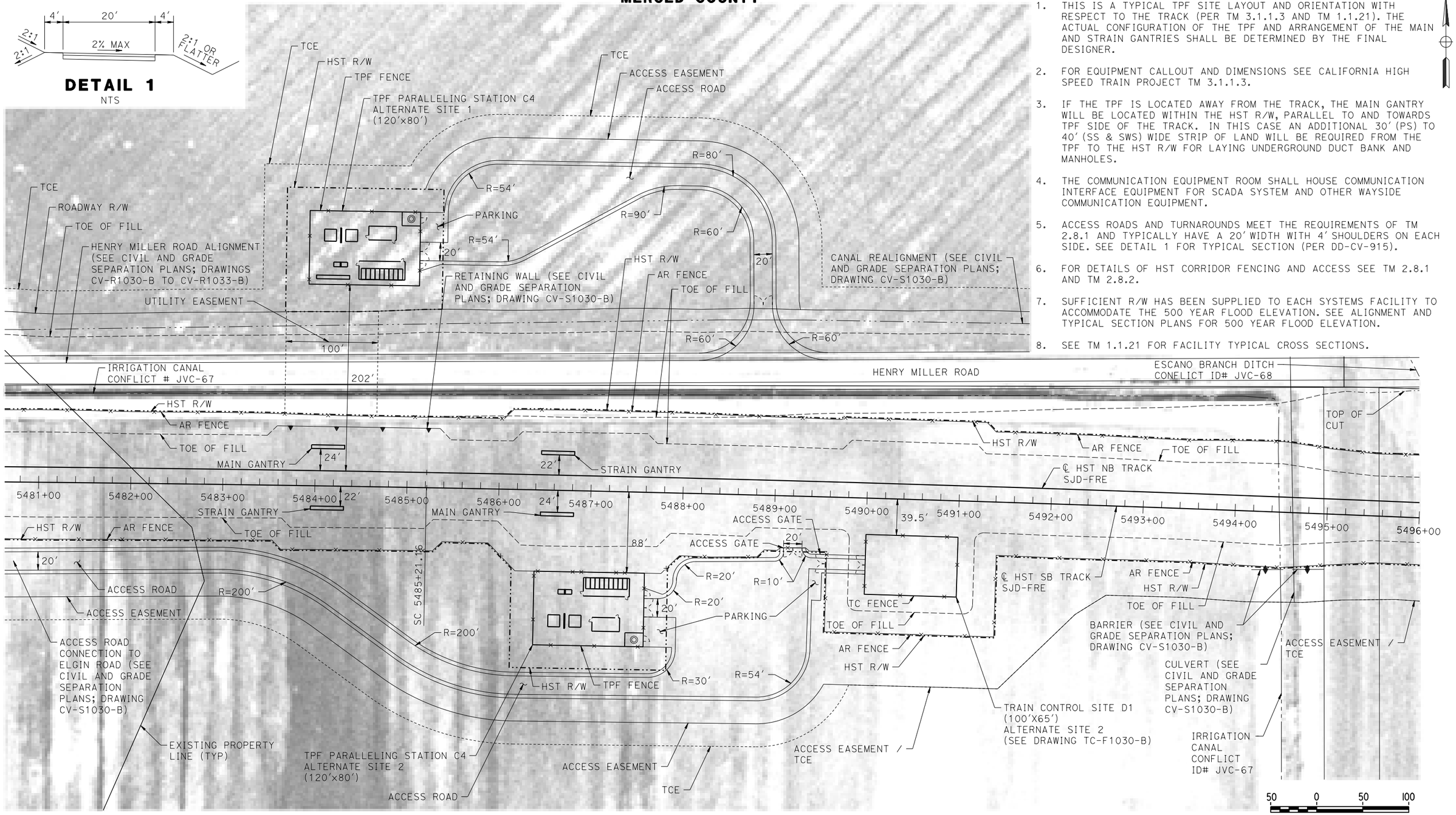
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
SYSTEMS FACILITIES KEY PLAN
SHEET 1 OF 1

CONTRACT NO. HSR08-05
DRAWING NO. TP-B4001-B
SCALE AS SHOWN
SHEET NO.

MF-TP-B4001-B.dgn
08-MAR-2016 11:29
p0051133A

MERCED COUNTY

DETAIL 1
NTS



PLAN

GENERAL NOTES:

1. THIS IS A TYPICAL TPF SITE LAYOUT AND ORIENTATION WITH RESPECT TO THE TRACK (PER TM 3.1.1.3 AND TM 1.1.21). THE ACTUAL CONFIGURATION OF THE TPF AND ARRANGEMENT OF THE MAIN AND STRAIN GANTRIES SHALL BE DETERMINED BY THE FINAL DESIGNER.
2. FOR EQUIPMENT CALLOUT AND DIMENSIONS SEE CALIFORNIA HIGH SPEED TRAIN PROJECT TM 3.1.1.3.
3. IF THE TPF IS LOCATED AWAY FROM THE TRACK, THE MAIN GANTRY WILL BE LOCATED WITHIN THE HST R/W, PARALLEL TO AND TOWARDS TPF SIDE OF THE TRACK. IN THIS CASE AN ADDITIONAL 30' (PS) TO 40' (SS & SWS) WIDE STRIP OF LAND WILL BE REQUIRED FROM THE TPF TO THE HST R/W FOR LAYING UNDERGROUND DUCT BANK AND MANHOLES.
4. THE COMMUNICATION EQUIPMENT ROOM SHALL HOUSE COMMUNICATION INTERFACE EQUIPMENT FOR SCADA SYSTEM AND OTHER WAYSIDE COMMUNICATION EQUIPMENT.
5. ACCESS ROADS AND TURNAROUNDS MEET THE REQUIREMENTS OF TM 2.8.1 AND TYPICALLY HAVE A 20' WIDTH WITH 4' SHOULDERS ON EACH SIDE. SEE DETAIL 1 FOR TYPICAL SECTION (PER DD-CV-915).
6. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND TM 2.8.2.
7. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
8. SEE TM 1.1.21 FOR FACILITY TYPICAL CROSS SECTIONS.

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION C4 ALTERNATE SITES 1 & 2

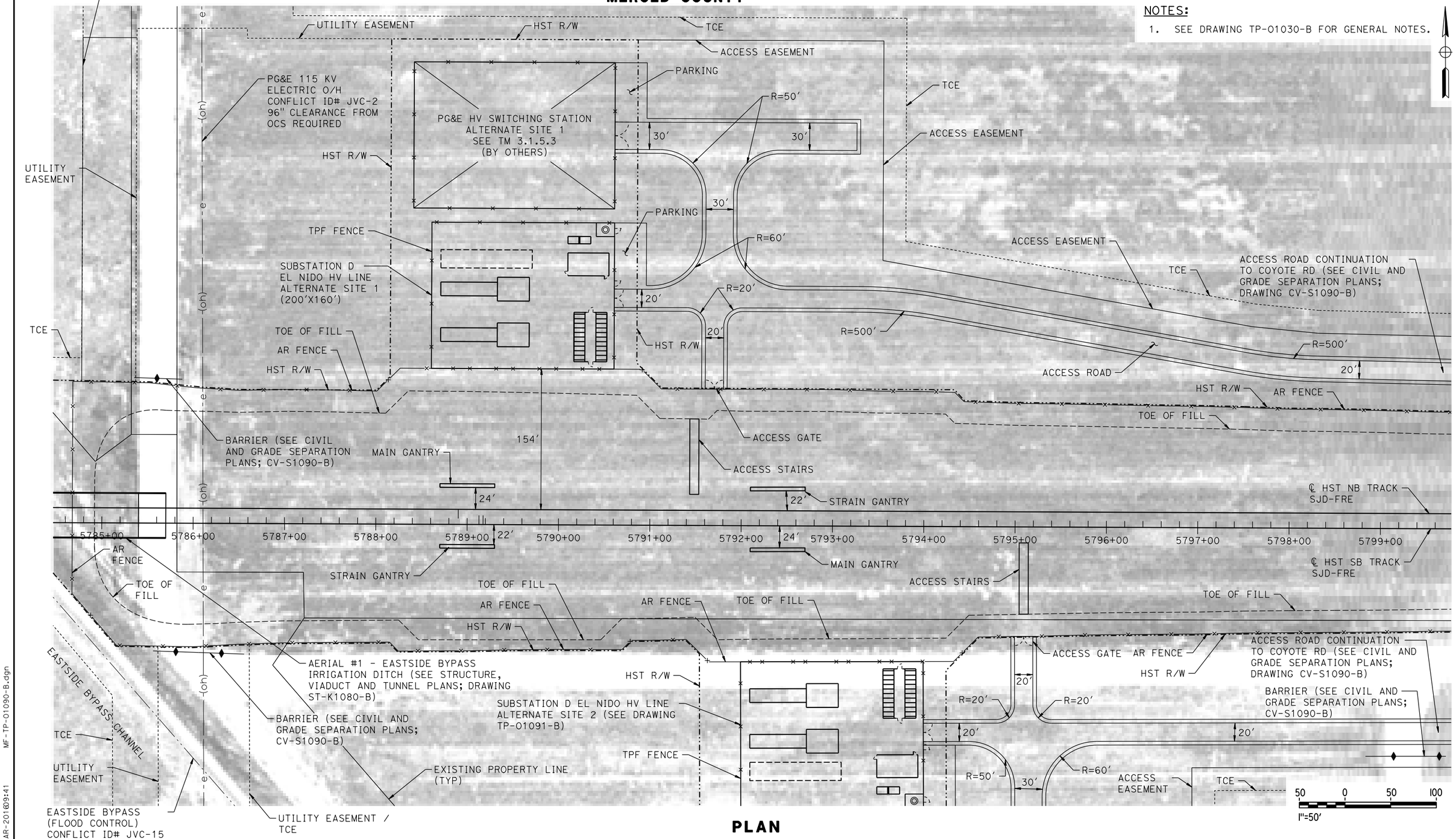
CONTRACT NO. HSR08-05
DRAWING NO. TP-01030-B
SCALE AS SHOWN
SHEET NO.

MF-TP-01030-B.dgn 18-MAR-2016 10:56 p0051133a

MERCED COUNTY

NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



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DATE 03/18/2016

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PARSONS

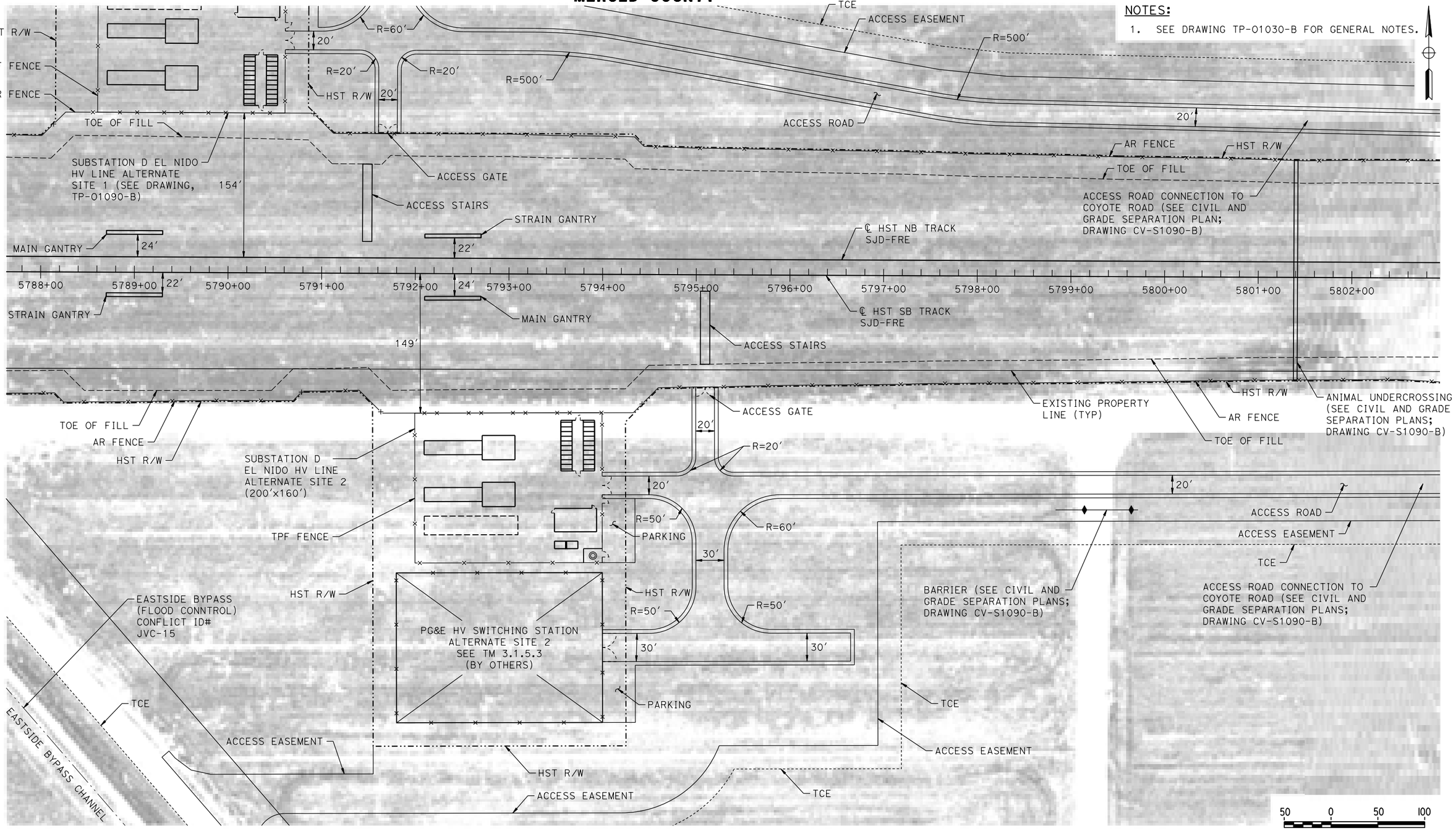
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SUBSTATION D (EL NIDO) ALTERNATE SITE 1

CONTRACT NO. HSR08-05
DRAWING NO. TP-01090-B
SCALE AS SHOWN
SHEET NO.

MF-TP-01090-B.dgn 18-MAR-2016 09:41 p005133A



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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SUBSTATION D (EL NIDO) ALTERNATE SITE 2

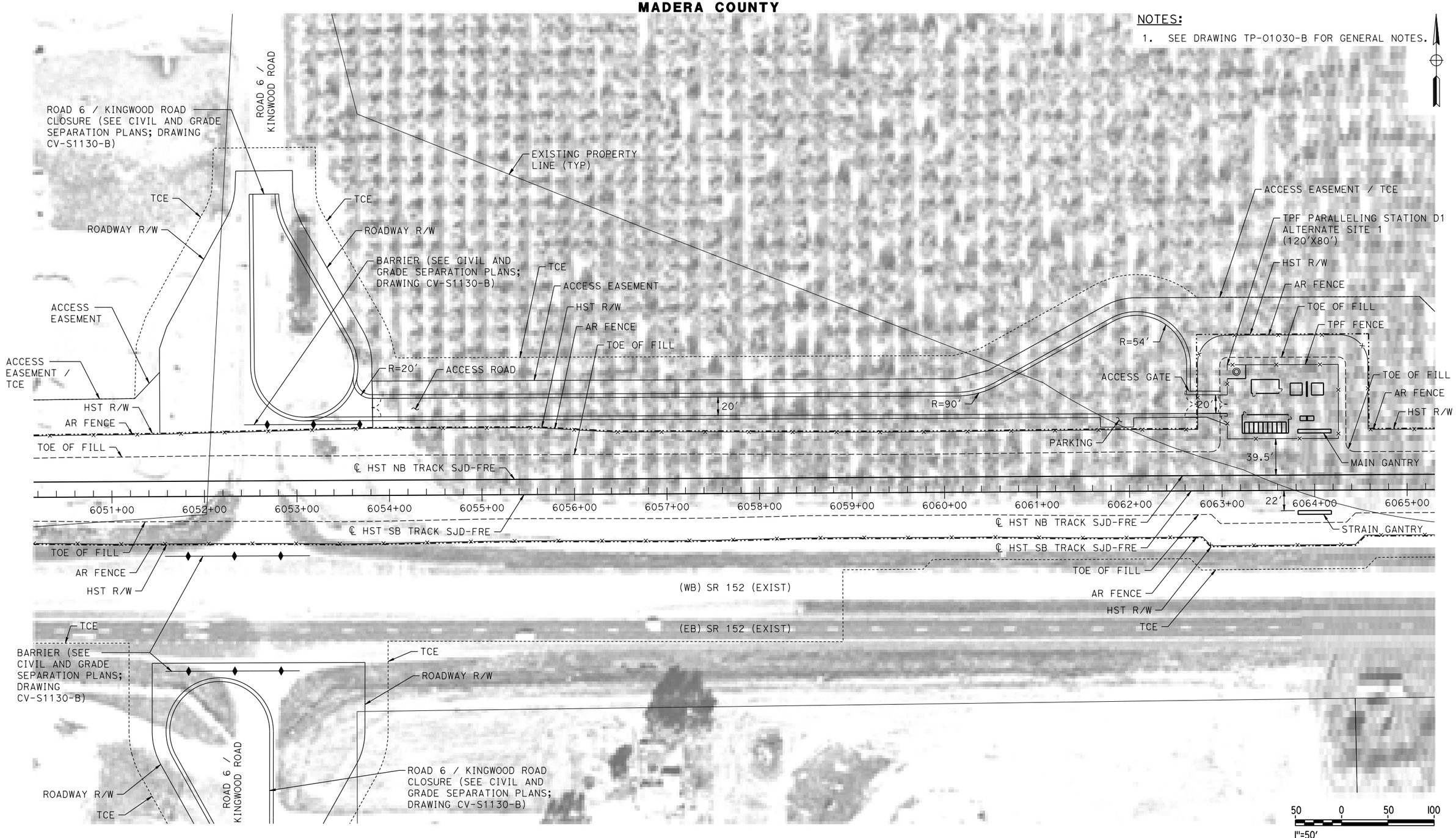
CONTRACT NO. HSR08-05
DRAWING NO. TP-01091-B
SCALE AS SHOWN
SHEET NO.

MF-TP-01091-B.dgn
18-MAR-2016@9:41
p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



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MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D1 ALTERNATE SITE 1

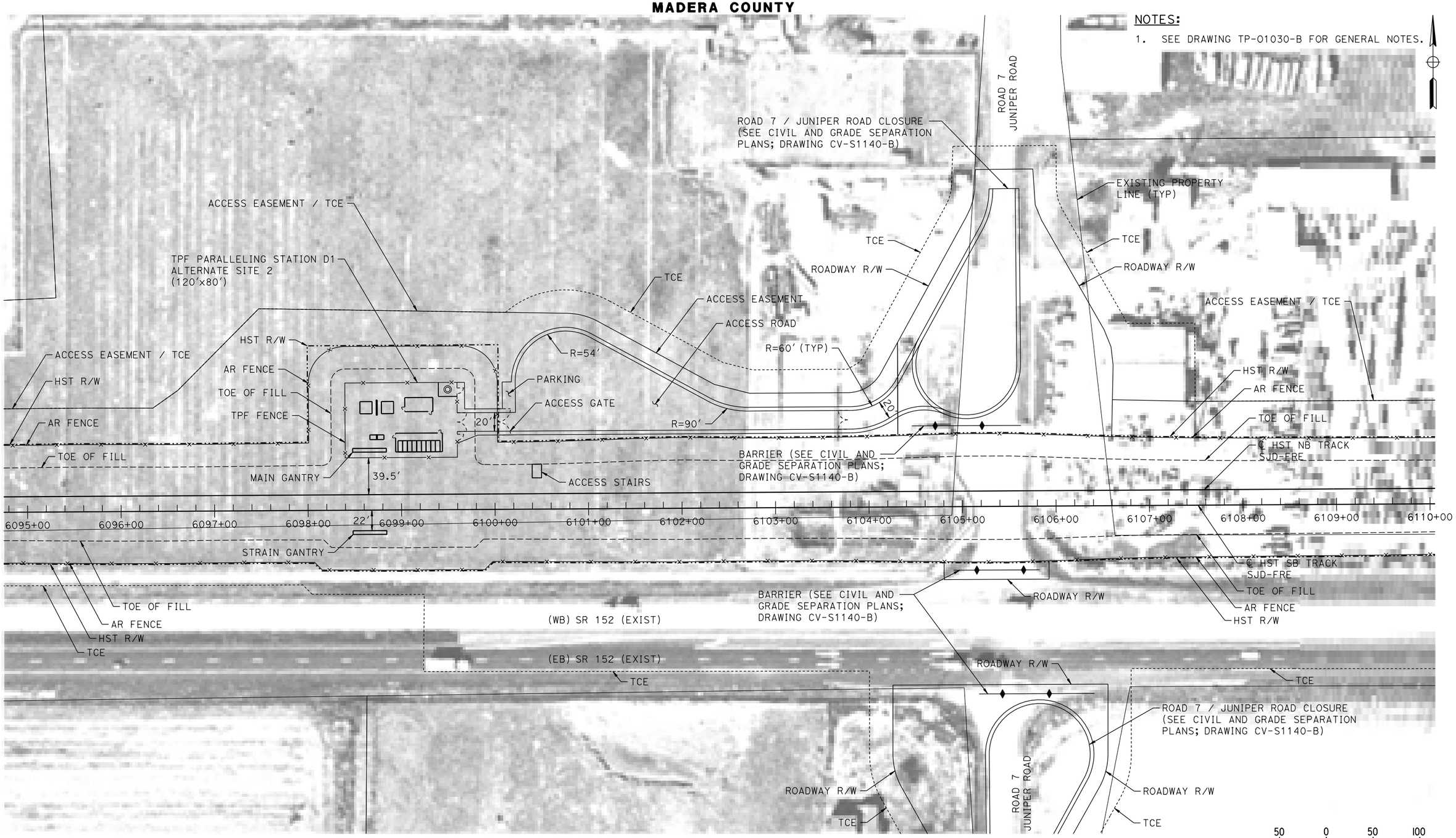
CONTRACT NO. HSR08-05
DRAWING NO. TP-01130-B
SCALE AS SHOWN
SHEET NO.

MF-TP-01130-B.dgn
08-MAR-2016 11:31
p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



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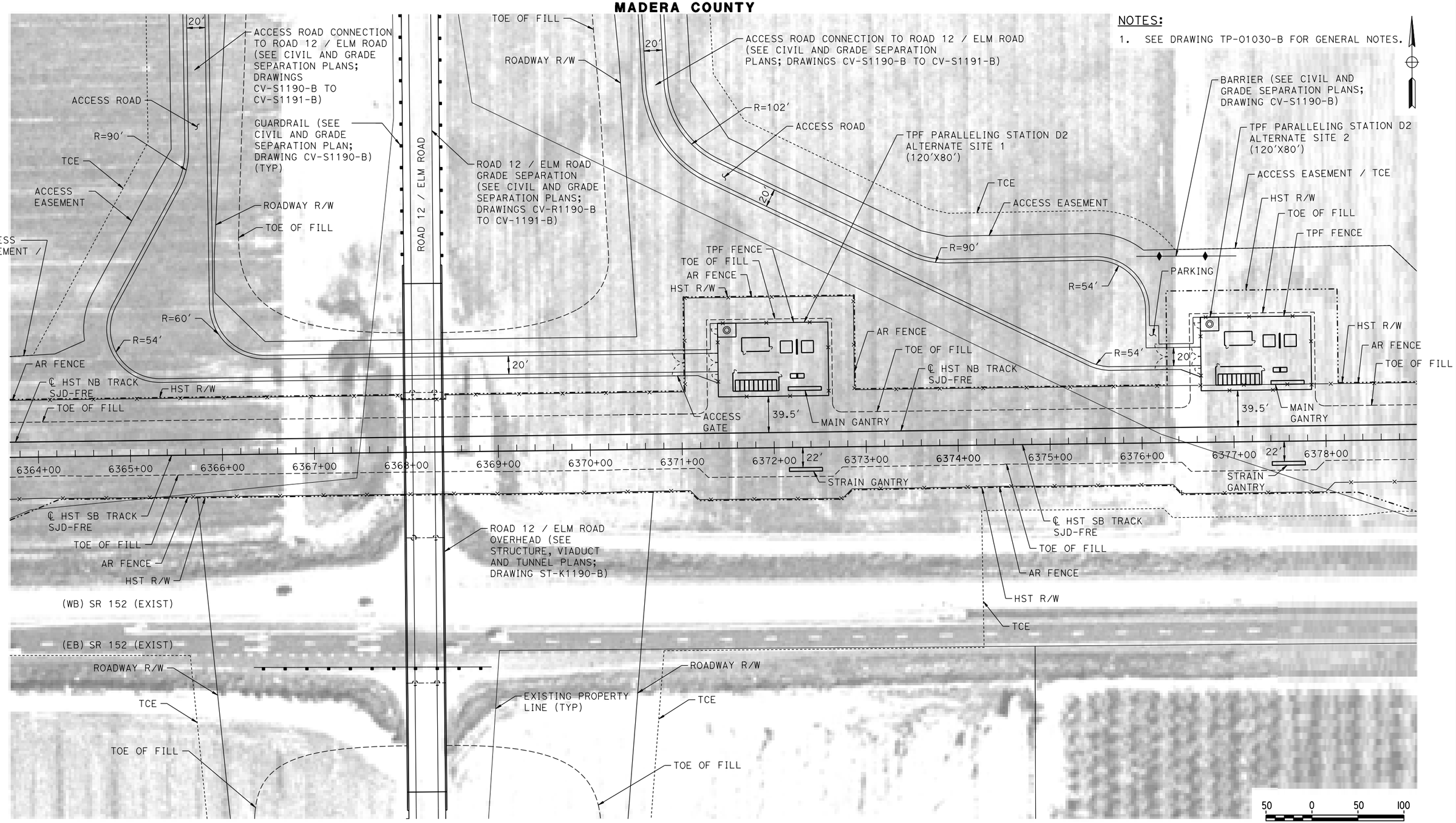
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D1 ALTERNATE SITE 2

CONTRACT NO. HSR08-05
DRAWING NO. TP-01140-B
SCALE AS SHOWN
SHEET NO.

MF-TP-01140-B.dgn 08-MAR-2016 1:31 p005133A

MADERA COUNTY



NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.

PLAN

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DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

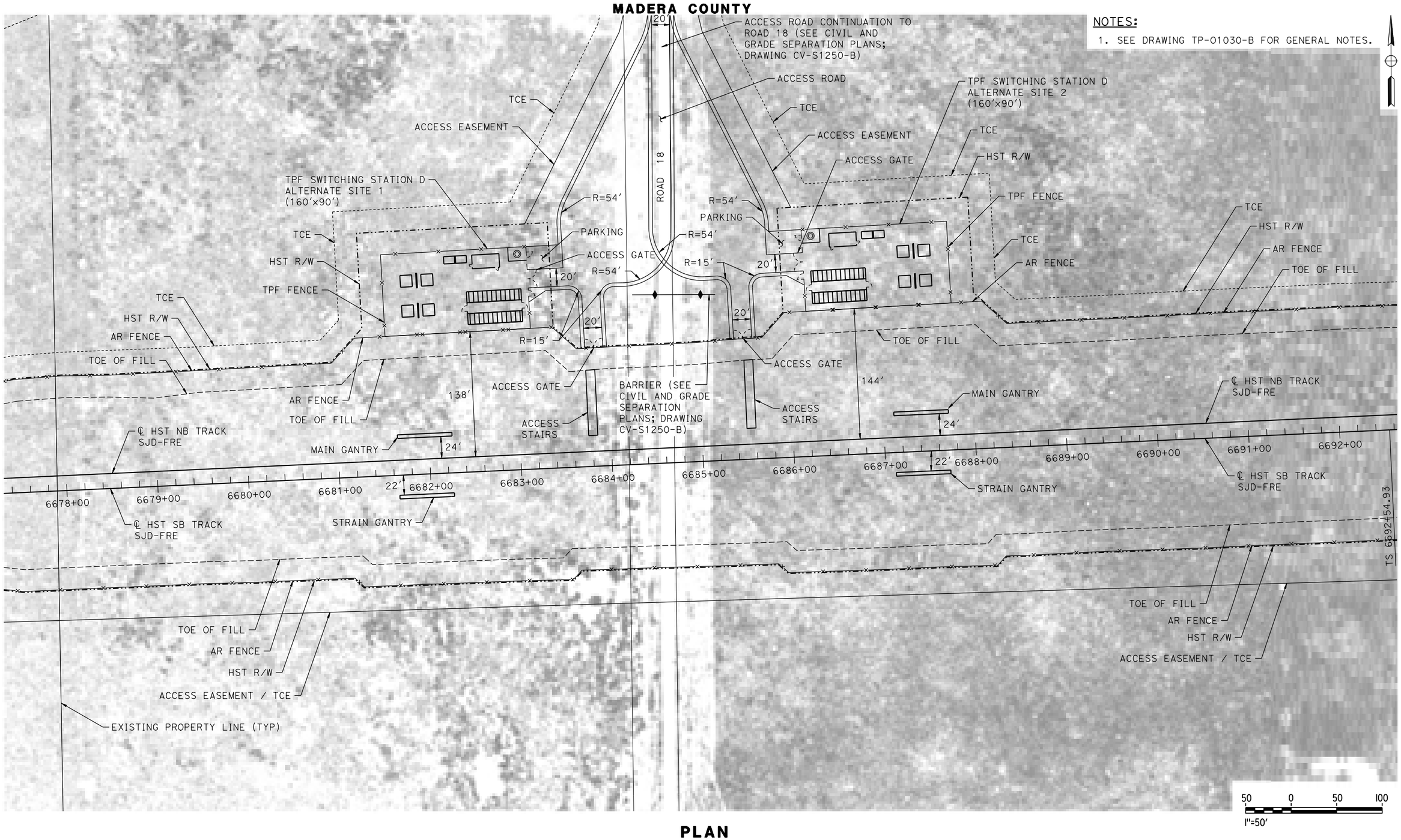
PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D2 ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. TP-01190-B
SCALE AS SHOWN
SHEET NO.

MF-TP-01190-B.dgn
18-MAR-2016 09:41
p005133A



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION D ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. TP-01250-B
SCALE AS SHOWN
SHEET NO.

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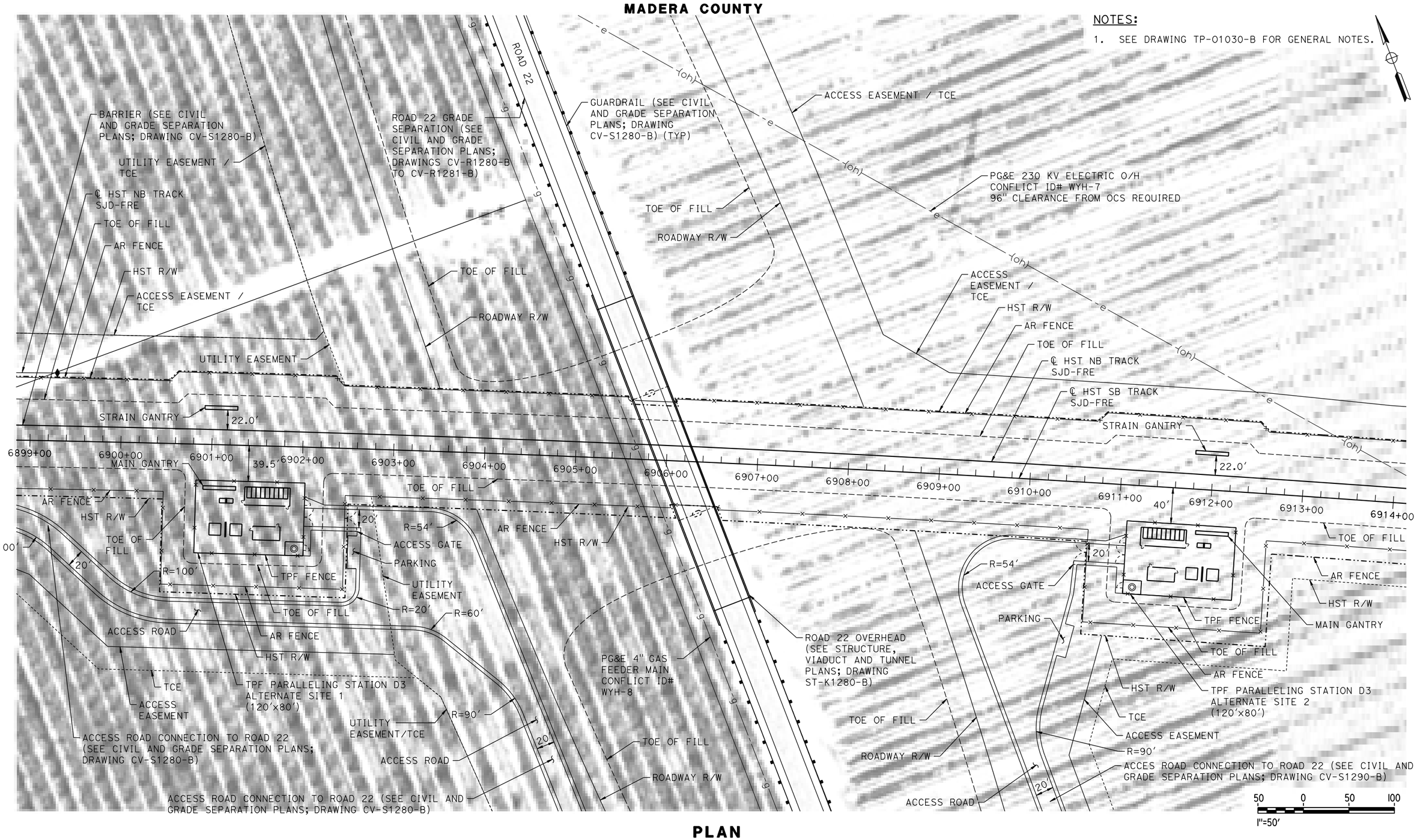

NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D3 ALTERNATE SITES 1 & 2

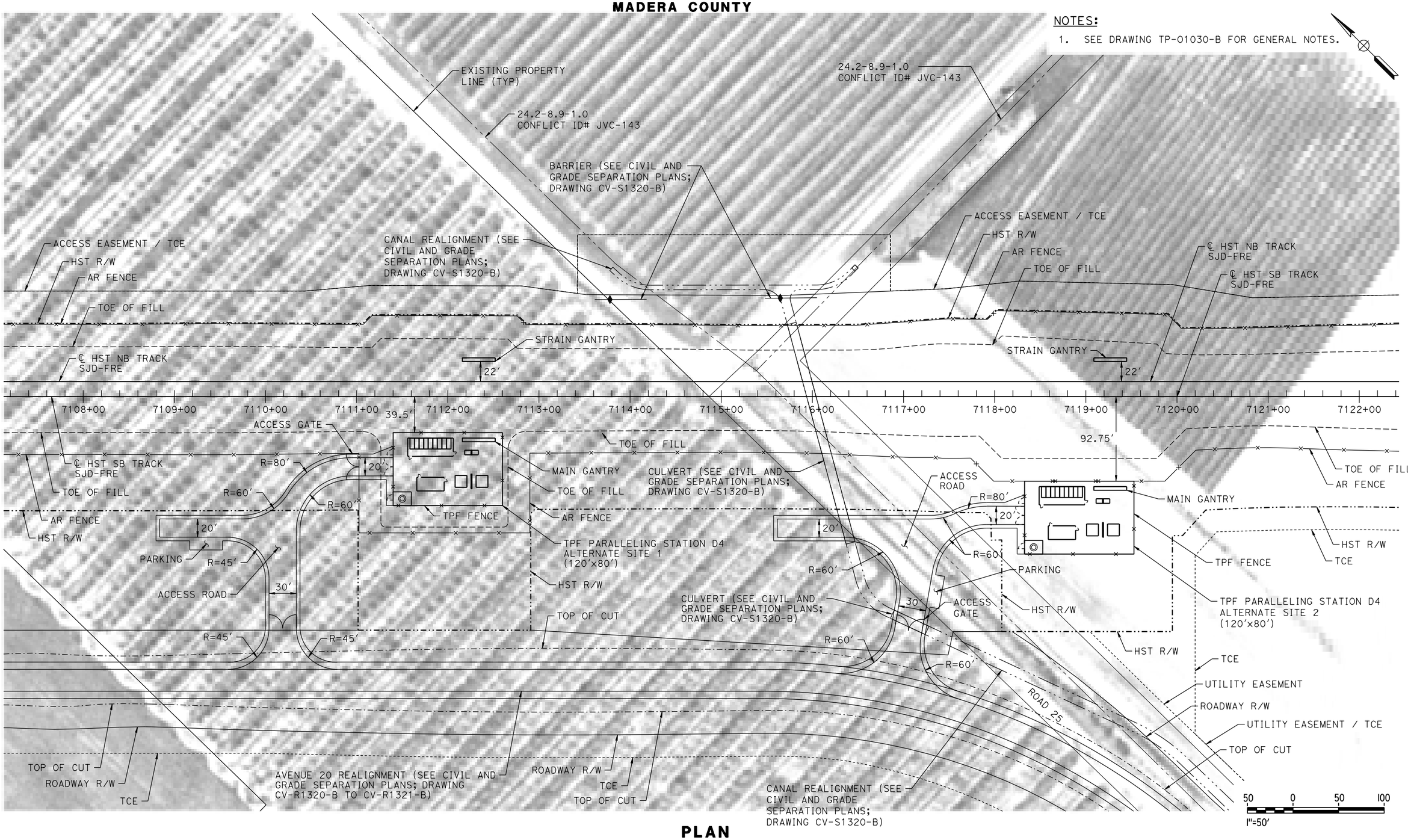
CONTRACT NO. HSR08-05
DRAWING NO. TP-01280-B
SCALE AS SHOWN
SHEET NO.

MF-TP-01280-B.dgn 18-MAR-2016 09:42 p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY J.CASTILLO
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DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION D4 ALTERNATE SITES 1 & 2

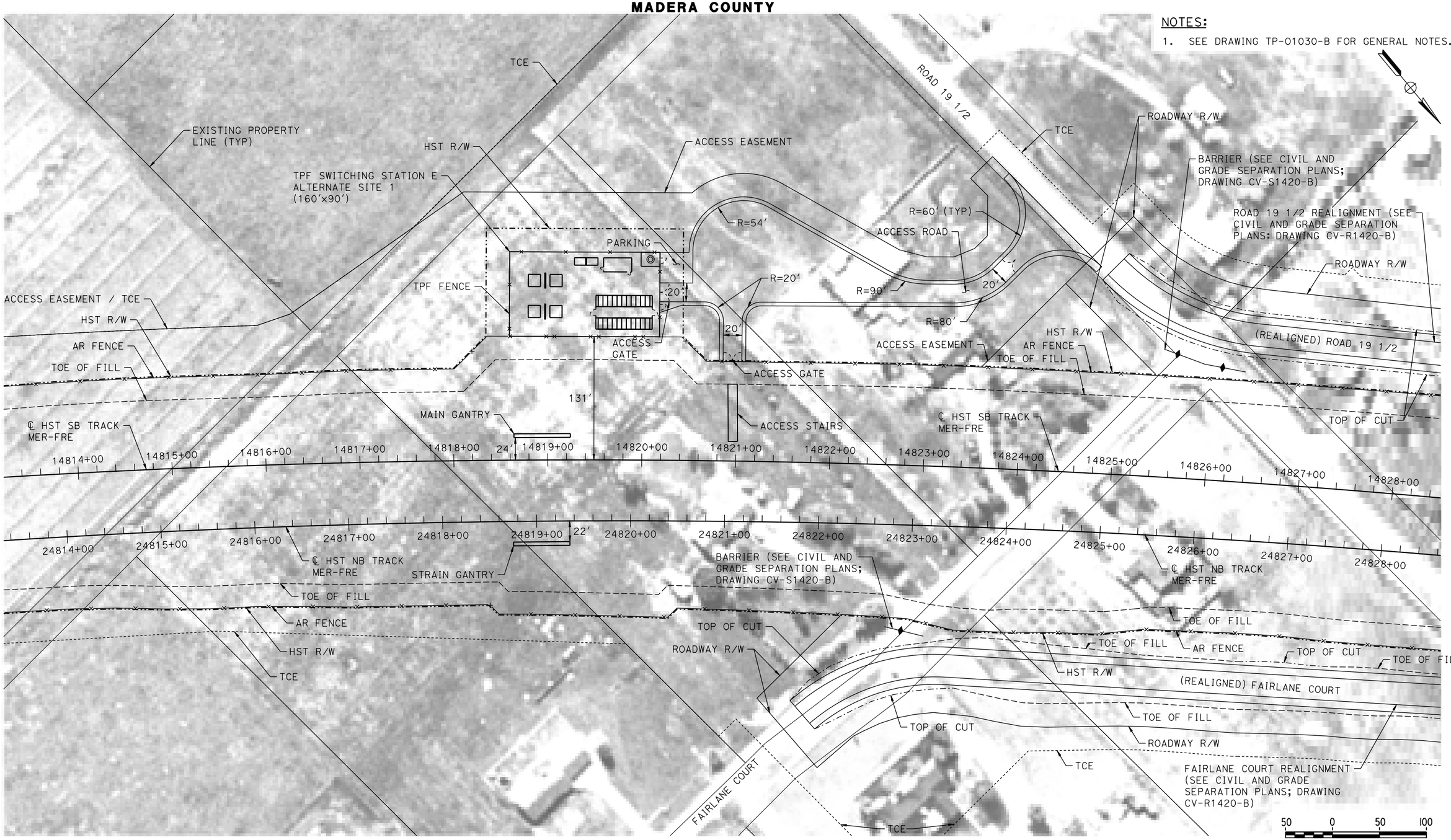
CONTRACT NO. HSR08-05
DRAWING NO. TP-01320-B
SCALE AS SHOWN
SHEET NO.

MF-TP-01320-B.dgn
18-MAR-2016 09:42
p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION E ALTERNATE SITE 1

CONTRACT NO. HSR08-05
DRAWING NO. TP-01420-B
SCALE AS SHOWN
SHEET NO.

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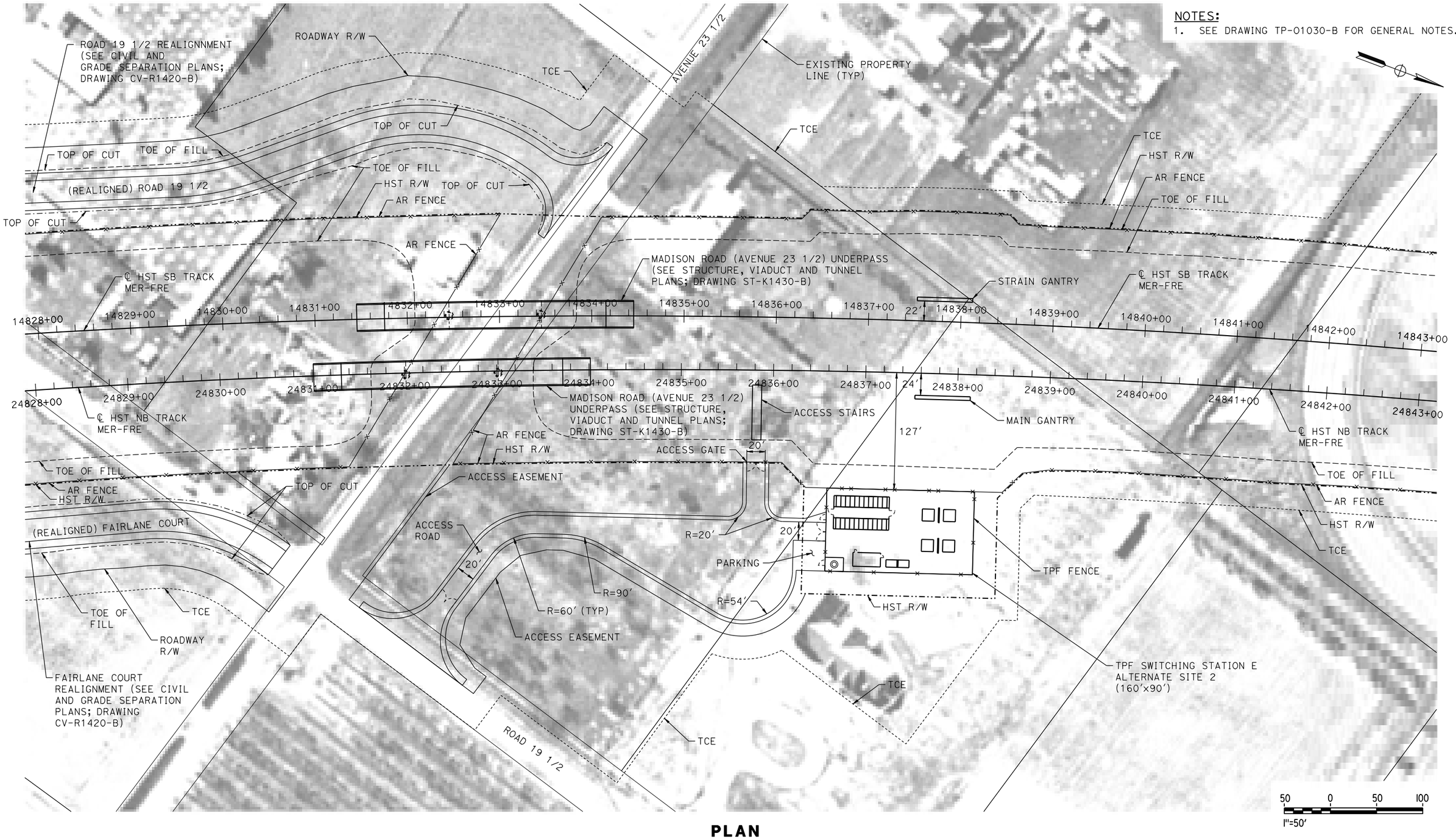
10-MAR-2016 8:02
p0042226

MADERA COUNTY



NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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PARSONS

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION E ALTERNATE SITE 2

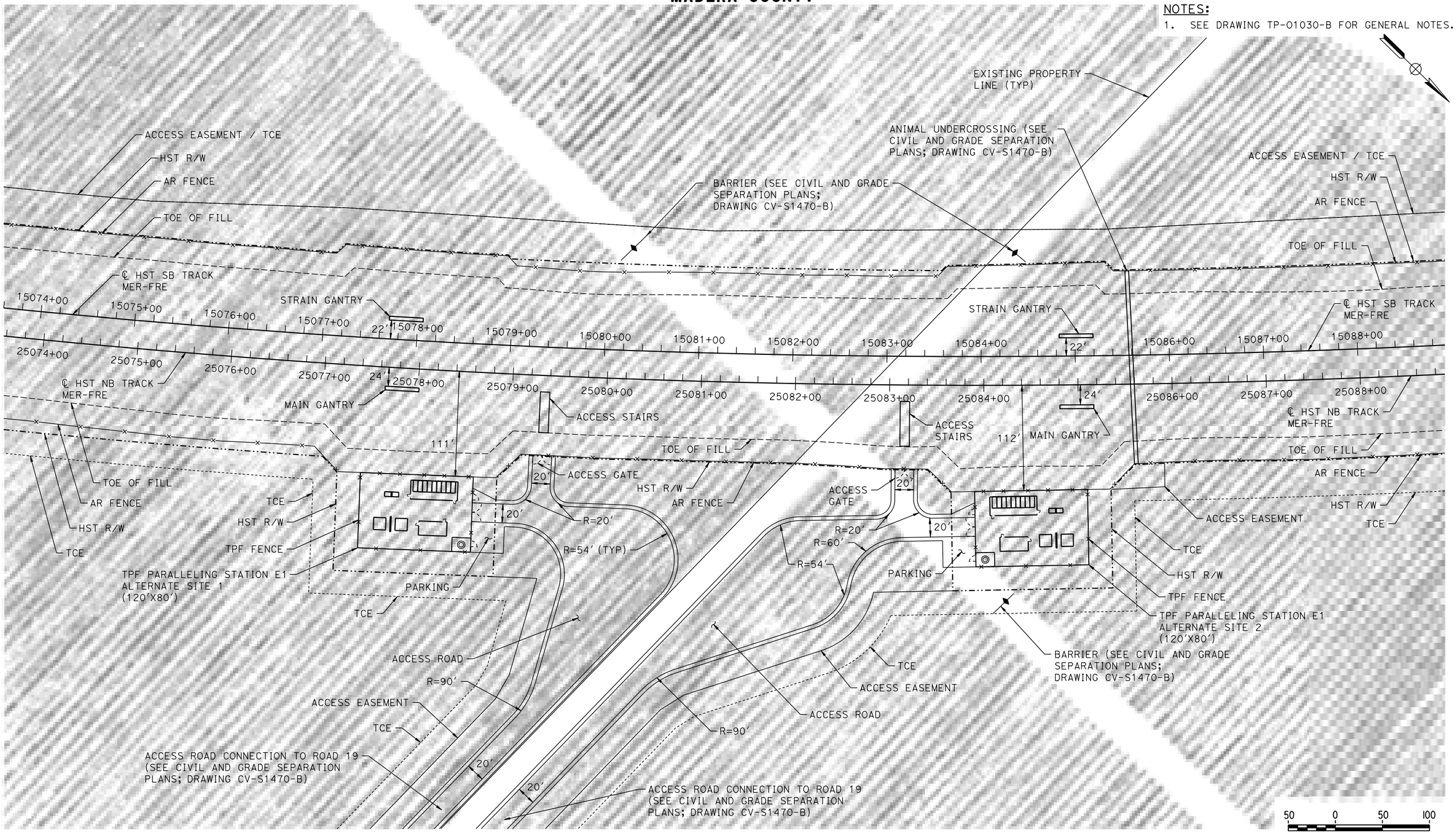
CONTRACT NO. HSR08-05
DRAWING NO. TP-01430-B
SCALE AS SHOWN
SHEET NO.

MF-TP-01430-B.dgn 18-MAR-2016 09:42 p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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IN CHARGE C. LEMLEY
DATE 03/18/2016

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PARSONS

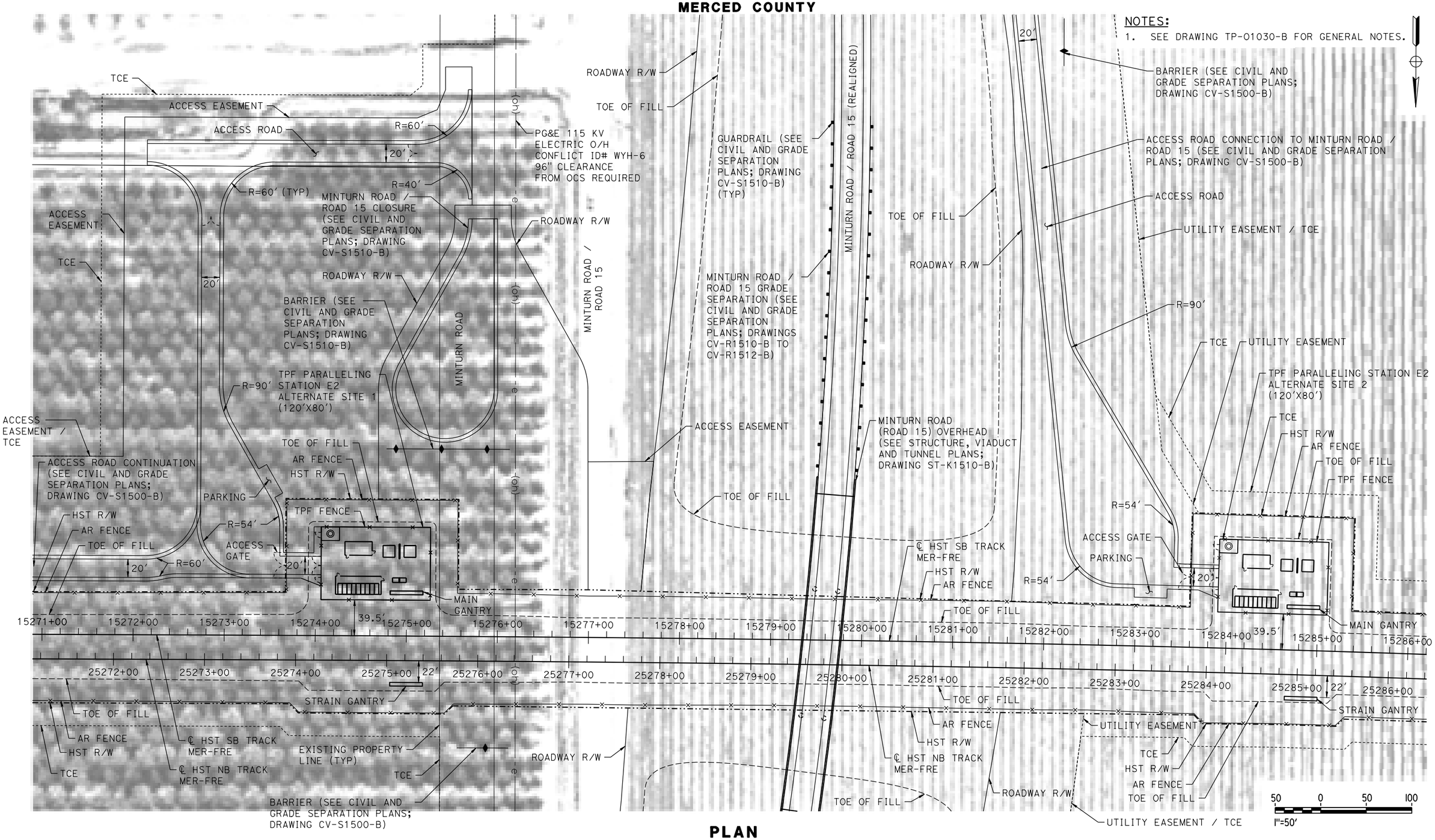
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION E1 ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. TP-01470-B
SCALE AS SHOWN
SHEET NO.

MF-TP-01470-B.dgn 10-MAR-2016 8:03 p0042226

MERCED COUNTY



PLAN

NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
PARALLELING STATION E2 ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. TP-01510-B
SCALE AS SHOWN
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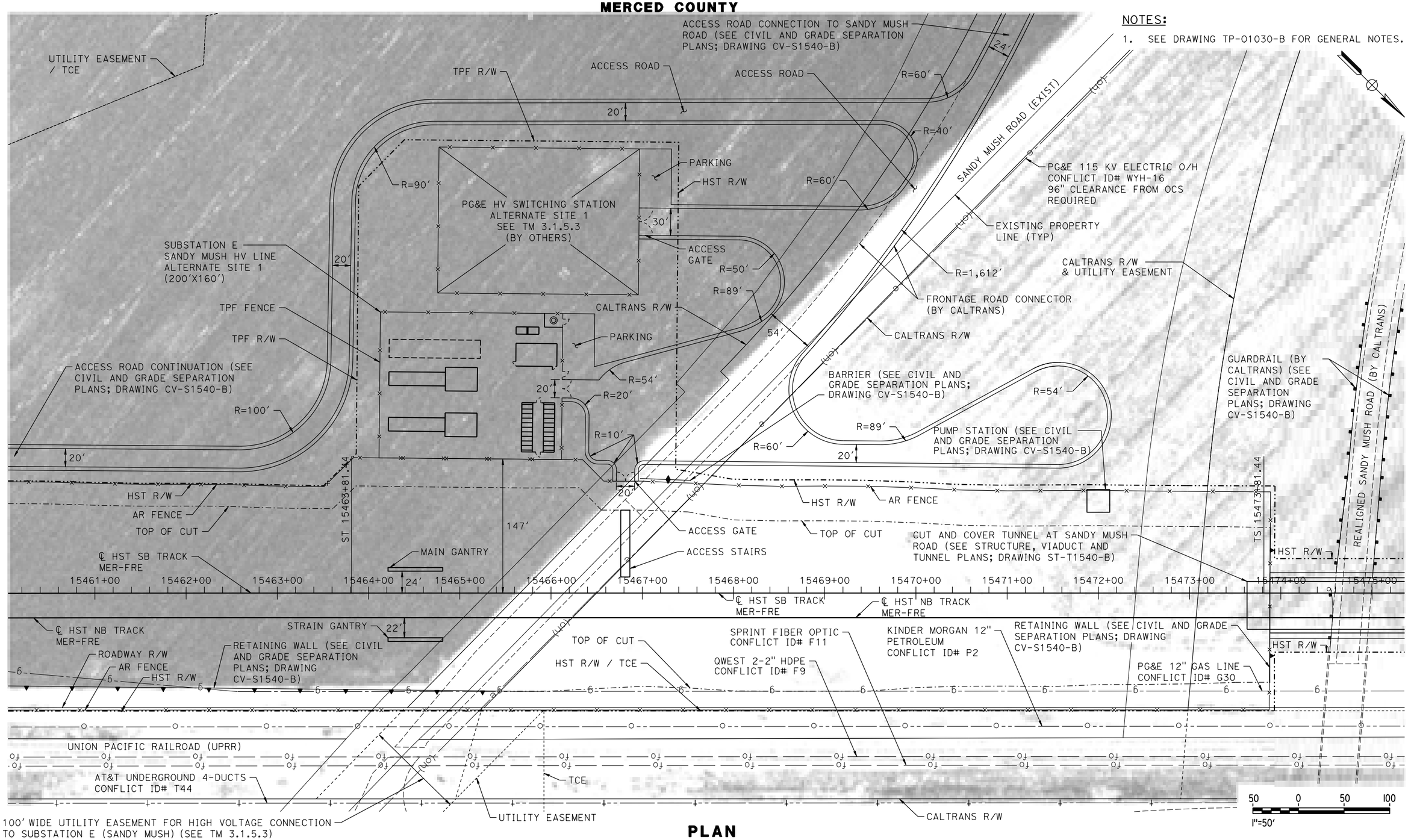
18-MAR-2016 15:28
p005133A

MERCED COUNTY



NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

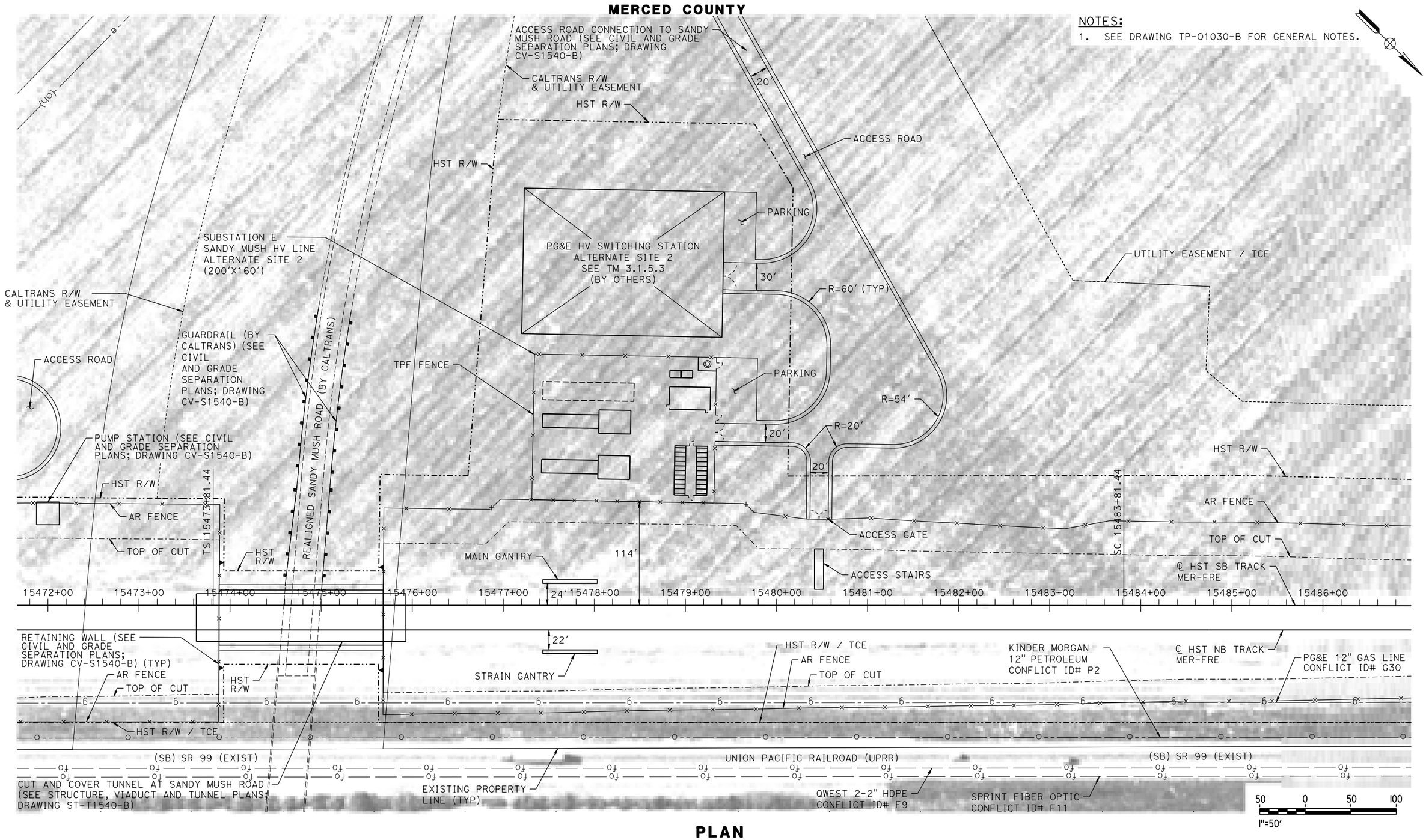
PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SUBSTATION E (SANDY MUSH) ALTERNATE SITE 1

CONTRACT NO. HSR08-05
DRAWING NO. TP-01540-B
SCALE AS SHOWN
SHEET NO.

MF-TP-01540-B.dgn 18-MAR-2016 09:43 p005133A



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SUBSTATION E (SANDY MUSH) ALTERNATE SITE 2

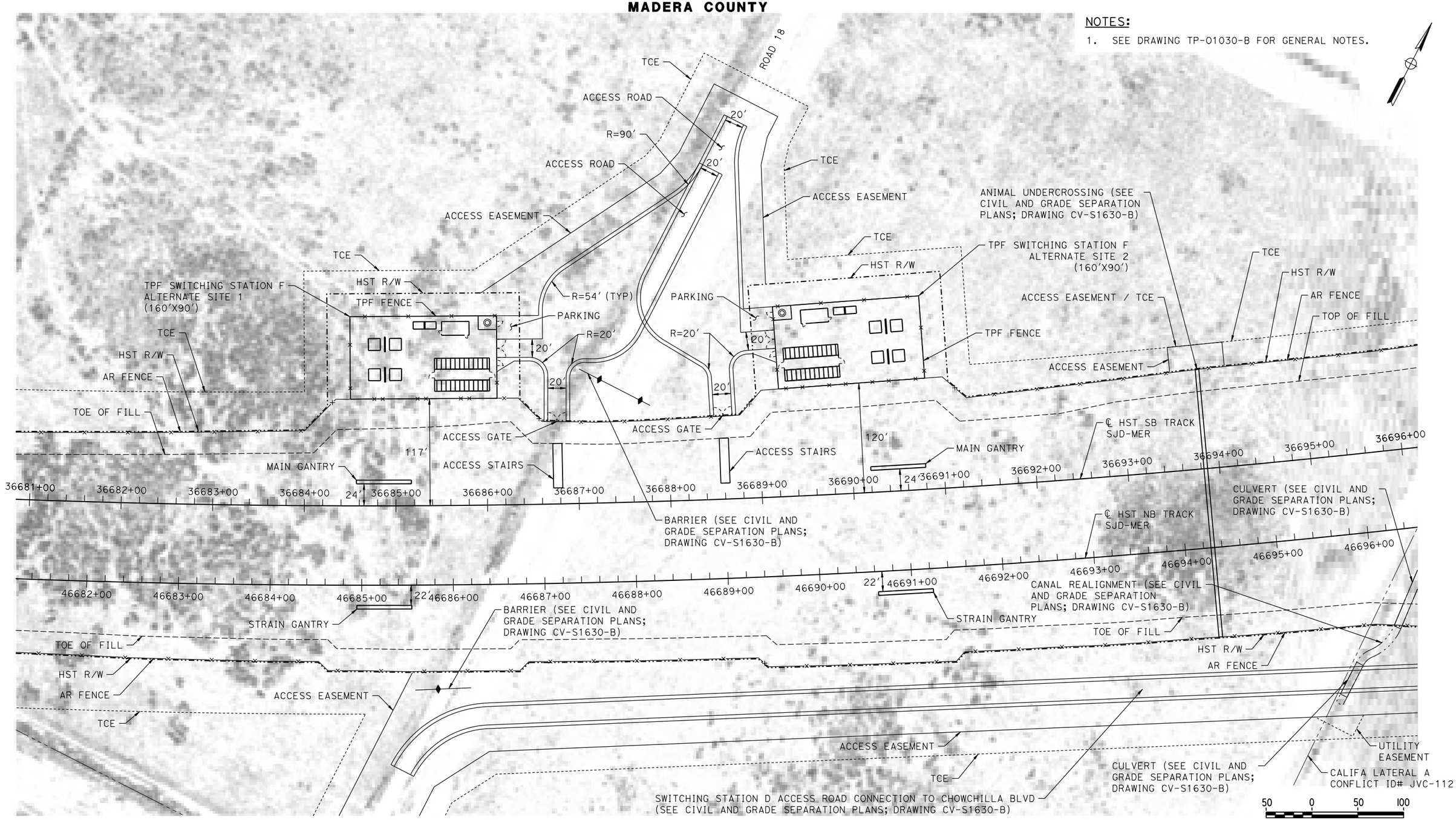
CONTRACT NO. HSR08-05
DRAWING NO. TP-01541-B
SCALE AS SHOWN
SHEET NO.

MF-TP-01541-B.dgn
18-MAR-2016 09:43
p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TP-01030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

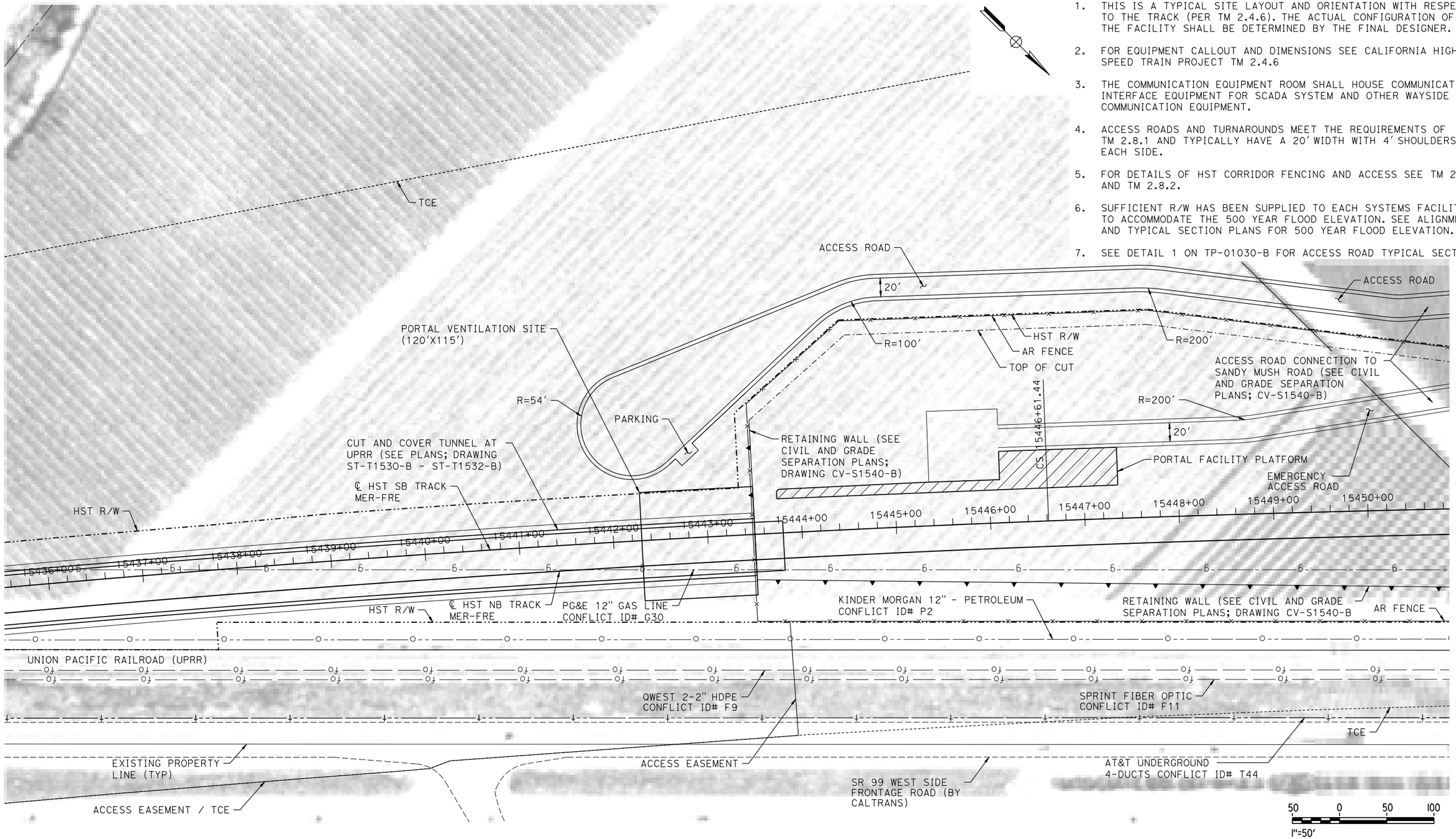
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
TRACTION POWER FACILITY SITE PLAN
SWITCHING STATION F ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. TP-01630-B
SCALE AS SHOWN
SHEET NO.

MF-TP-01630-B.dgn 08-MAR-2016 1:36 p0051133A

GENERAL NOTES:

1. THIS IS A TYPICAL SITE LAYOUT AND ORIENTATION WITH RESPECT TO THE TRACK (PER TM 2.4.6). THE ACTUAL CONFIGURATION OF THE FACILITY SHALL BE DETERMINED BY THE FINAL DESIGNER.
2. FOR EQUIPMENT CALLOUT AND DIMENSIONS SEE CALIFORNIA HIGH SPEED TRAIN PROJECT TM 2.4.6
3. THE COMMUNICATION EQUIPMENT ROOM SHALL HOUSE COMMUNICATION INTERFACE EQUIPMENT FOR SCADA SYSTEM AND OTHER WAYSIDE COMMUNICATION EQUIPMENT.
4. ACCESS ROADS AND TURNAROUNDS MEET THE REQUIREMENTS OF TM 2.8.1 AND TYPICALLY HAVE A 20′ WIDTH WITH 4′ SHOULDERS ON EACH SIDE.
5. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND TM 2.8.2.
6. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
7. SEE DETAIL 1 ON TP-01030-B FOR ACCESS ROAD TYPICAL SECTION.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

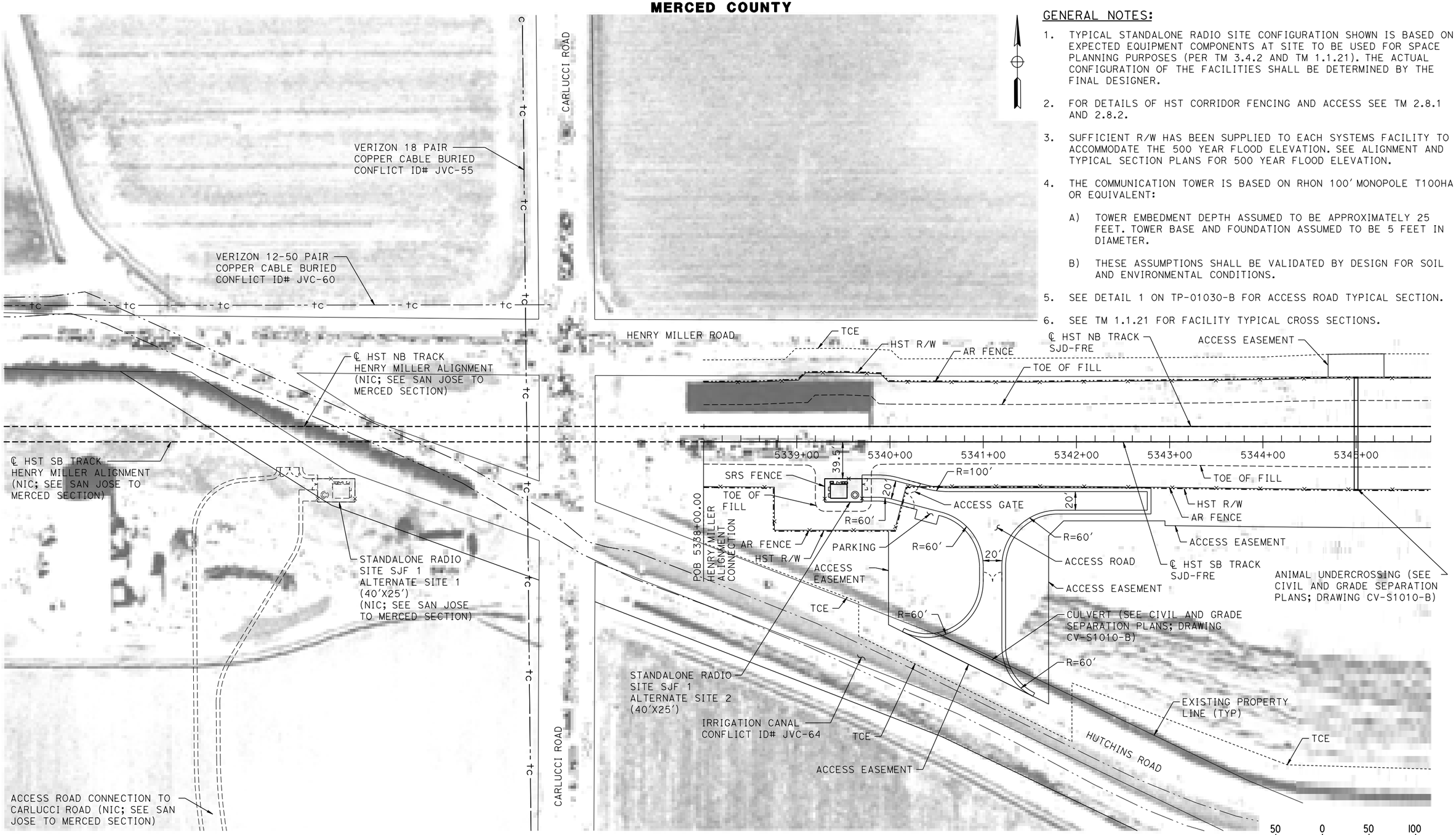
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
MECHANICAL FACILITY SITE PLAN
PORTAL VENTILATION SITE @ 15443+00

CONTRACT NO. HSR08-05
DRAWING NO. ME-S1540-B
SCALE AS SHOWN
SHEET NO.

MF-ME-S1540-B.dgn
18-MAR-2016 09:43
p005133A

MERCED COUNTY



PLAN

GENERAL NOTES:

1. TYPICAL STANDALONE RADIO SITE CONFIGURATION SHOWN IS BASED ON EXPECTED EQUIPMENT COMPONENTS AT SITE TO BE USED FOR SPACE PLANNING PURPOSES (PER TM 3.4.2 AND TM 1.1.21). THE ACTUAL CONFIGURATION OF THE FACILITIES SHALL BE DETERMINED BY THE FINAL DESIGNER.
2. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND 2.8.2.
3. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
4. THE COMMUNICATION TOWER IS BASED ON RHON 100' MONOPOLE T100HA OR EQUIVALENT:
   - A) TOWER EMBEDMENT DEPTH ASSUMED TO BE APPROXIMATELY 25 FEET. TOWER BASE AND FOUNDATION ASSUMED TO BE 5 FEET IN DIAMETER.
   - B) THESE ASSUMPTIONS SHALL BE VALIDATED BY DESIGN FOR SOIL AND ENVIRONMENTAL CONDITIONS.
5. SEE DETAIL 1 ON TP-01030-B FOR ACCESS ROAD TYPICAL SECTION.
6. SEE TM 1.1.21 FOR FACILITY TYPICAL CROSS SECTIONS.

REV	DATE	BY	CHK	APP	DESCRIPTION

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 1 ALTERNATE SITES 1 & 2

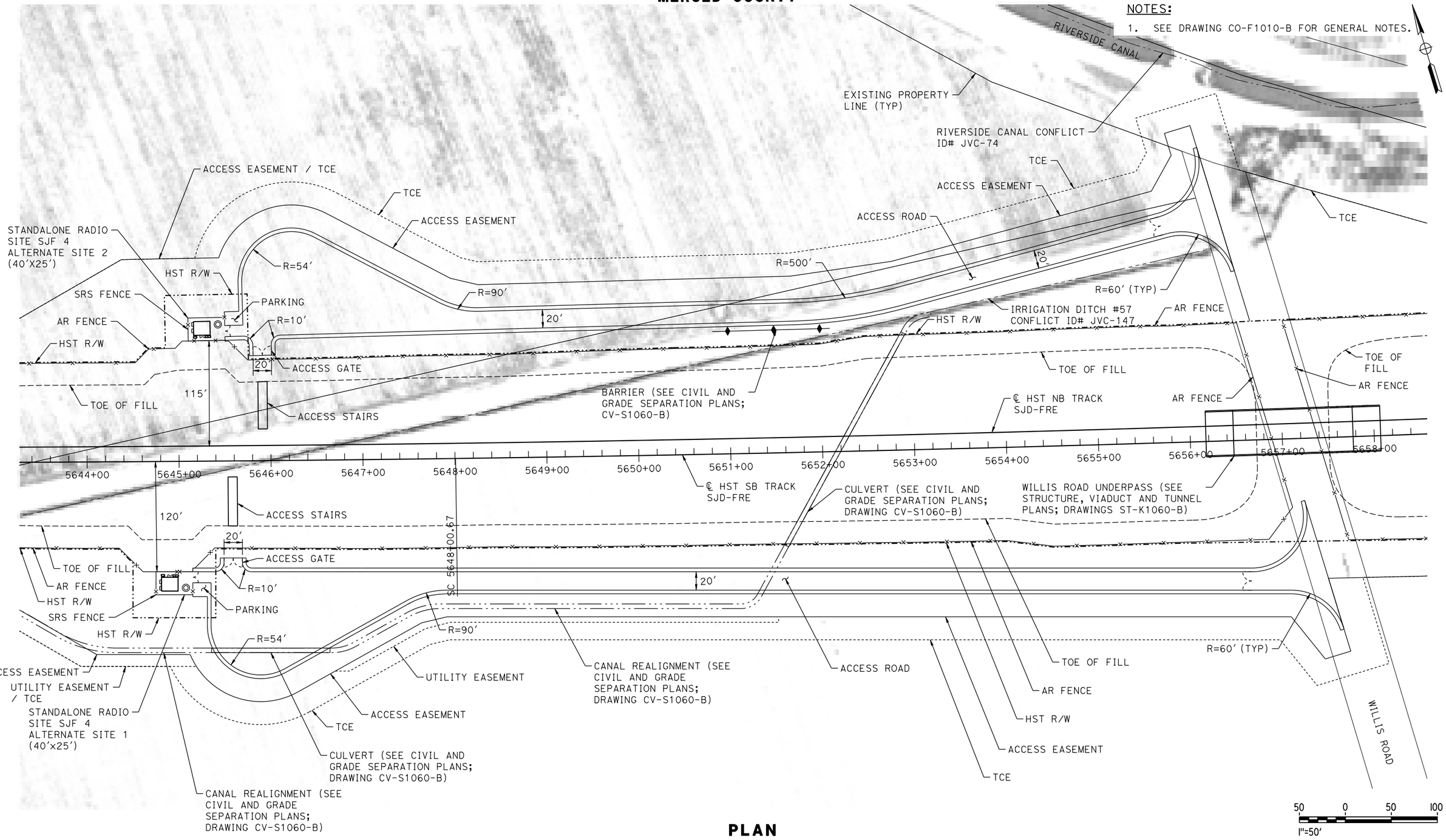
CONTRACT NO. HSR08-05
DRAWING NO. CO-F1010-B
SCALE AS SHOWN
SHEET NO.

MF-CO-F1010-B.dgn 08-MAR-2016 1:11 p005133A

MERCED COUNTY

NOTES:

1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.



PLAN

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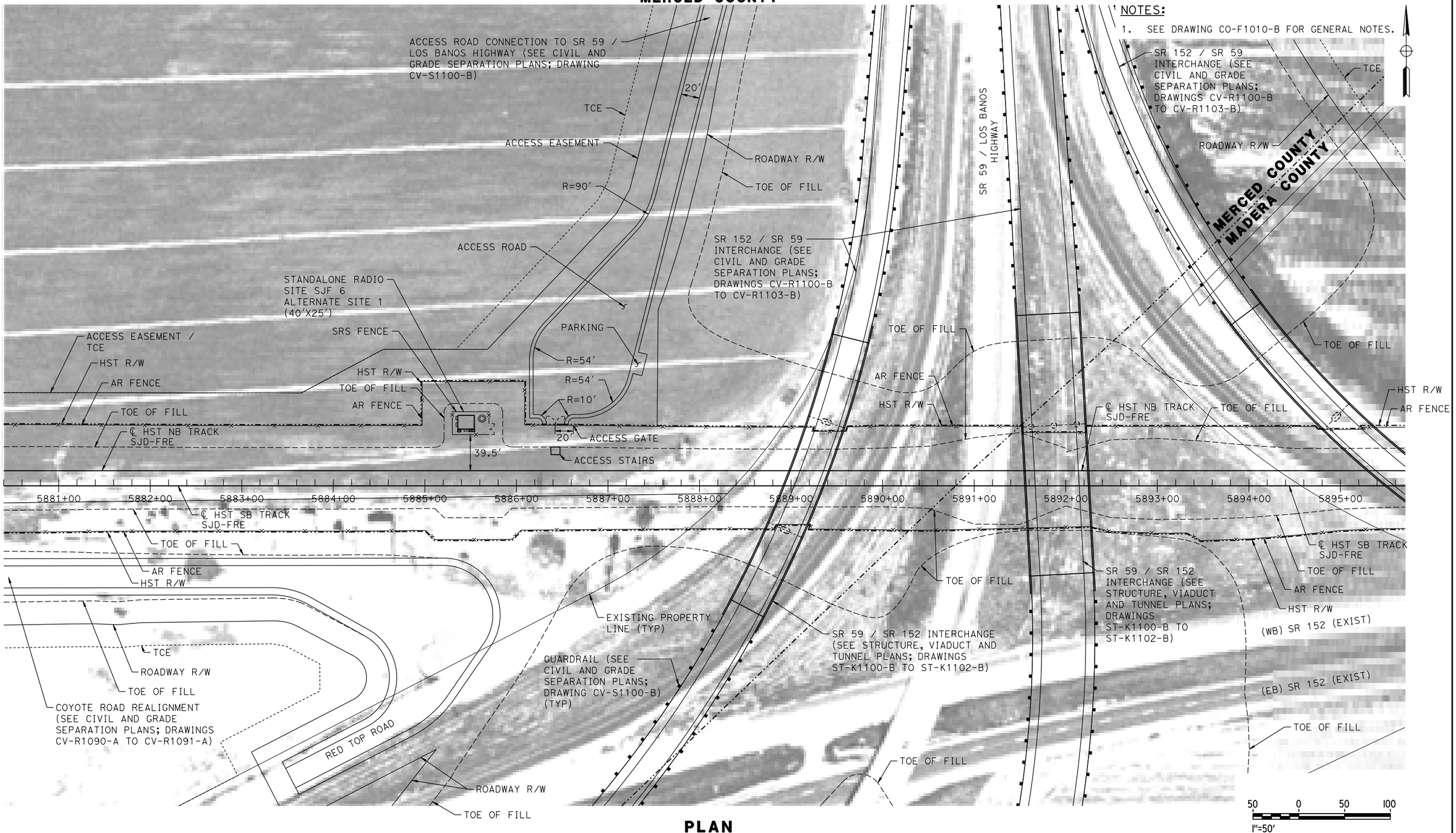
PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 4 ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. CO-F1060-B
SCALE AS SHOWN
SHEET NO.

MF-CO-F1060-B.dgn
10-MAR-2016 8:03
p0042226



NOTES:

1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.

SR 152 / SR 59 INTERCHANGE (SEE CIVIL AND GRADE SEPARATION PLANS; DRAWINGS CV-R1100-B TO CV-R1103-B)

TCE

ROADWAY R/W

MERCED COUNTY

MADERA COUNTY

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 6 ALTERNATE SITE 1

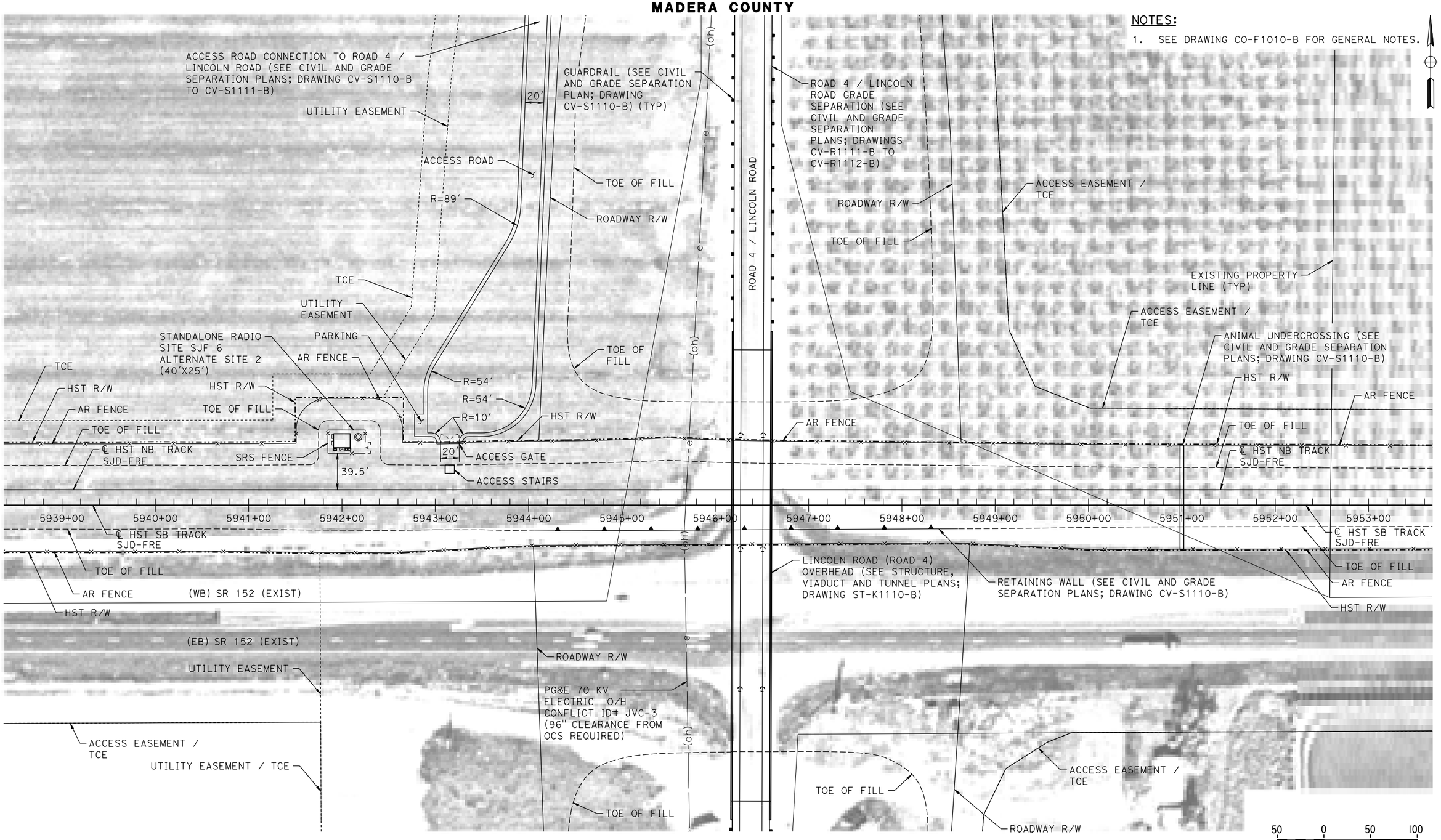
CONTRACT NO. HSR08-05
DRAWING NO. CO-F1100-B
SCALE AS SHOWN
SHEET NO.

MF-CO-F1100-B.dgn
18-MAR-2016 5:27
p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.



PLAN

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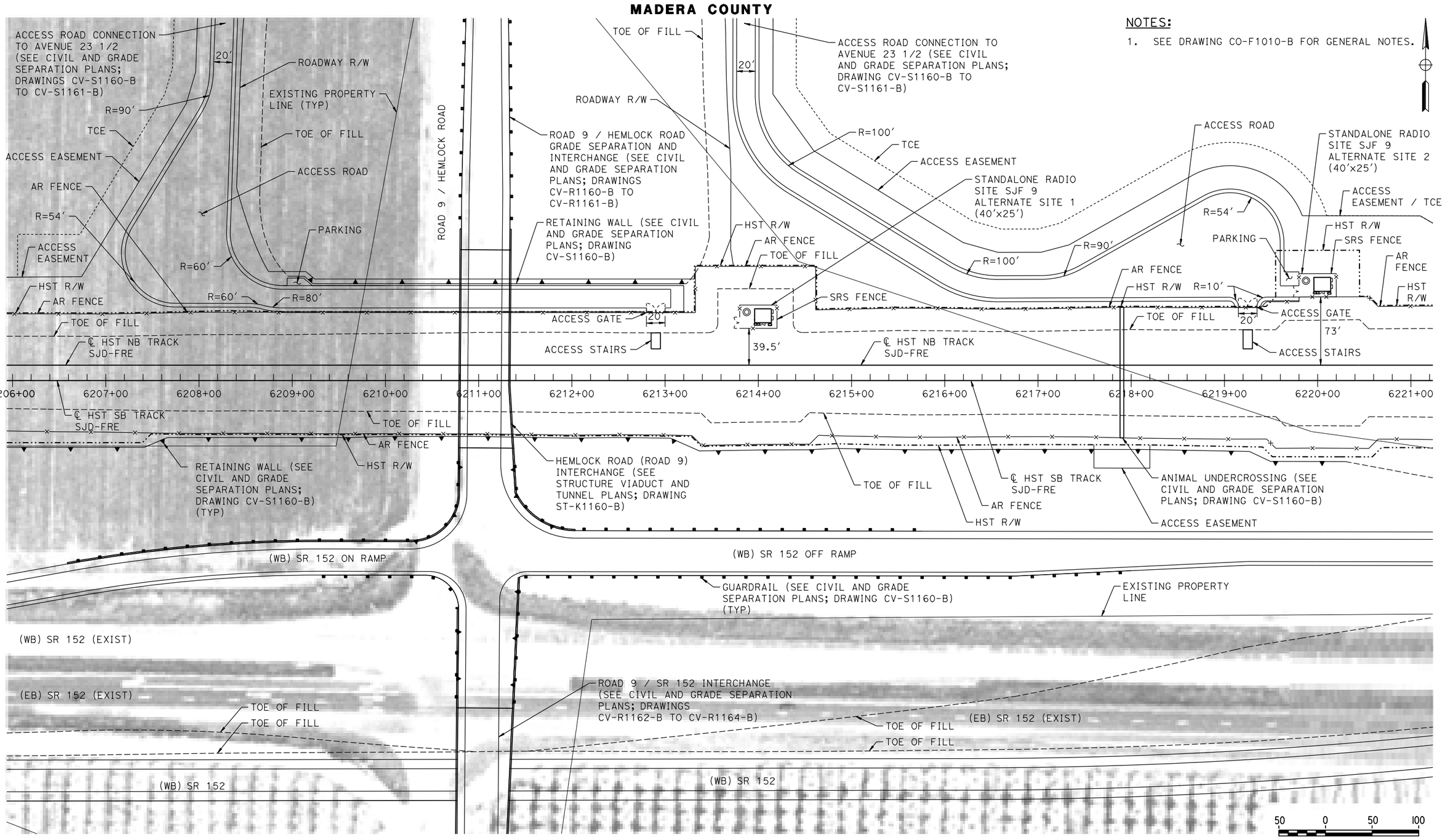
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 6 ALTERNATE SITE 2

CONTRACT NO. HSR08-05
DRAWING NO. CO-F1110-B
SCALE AS SHOWN
SHEET NO.

MF-CO-F1110-B.dgn
18-MAR-2016 09:44
p005133A



NOTES:

1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.

PLAN

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 9 ALTERNATES SITES 1 & 2

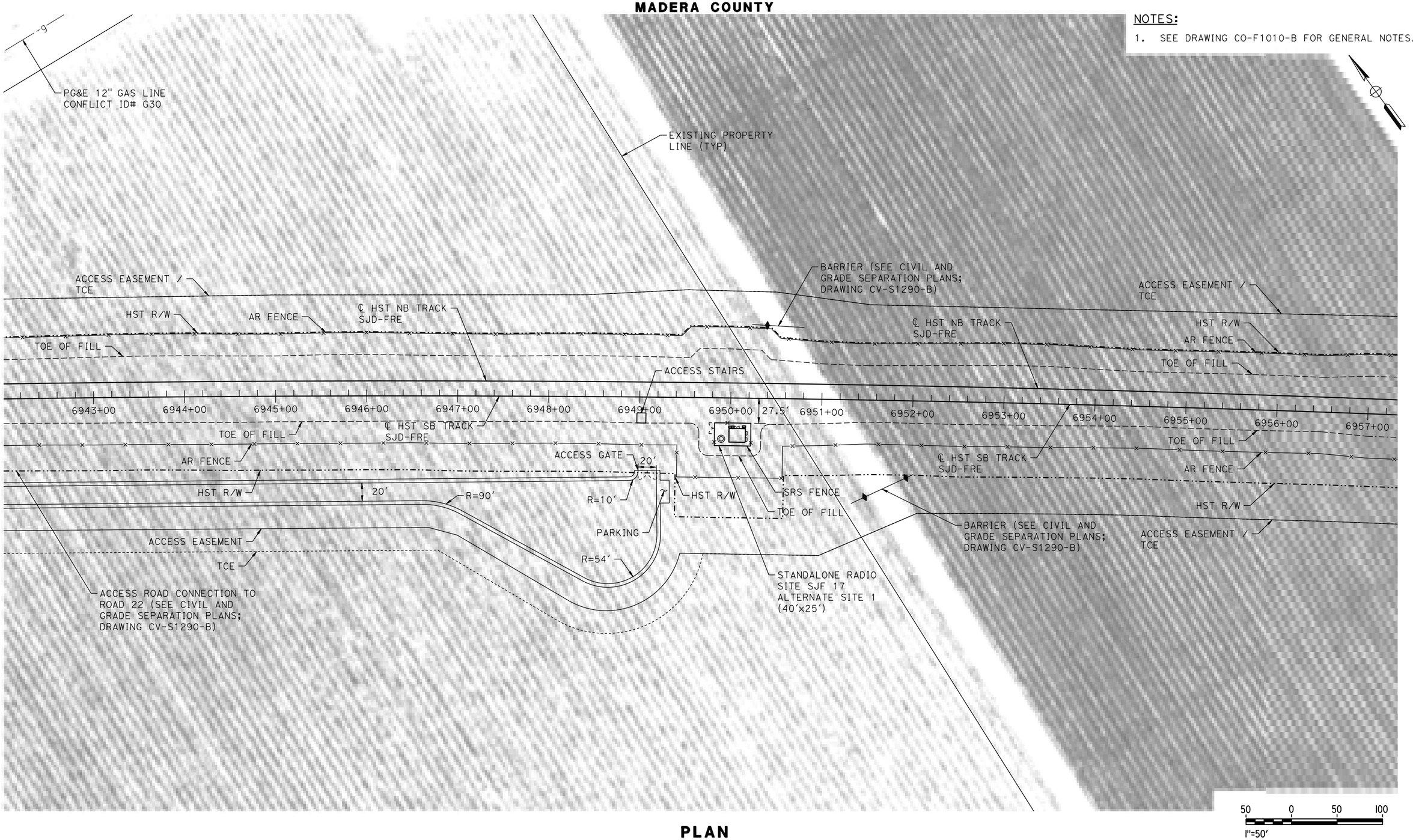
CONTRACT NO. HSR08-05
DRAWING NO. CO-F1160-B
SCALE AS SHOWN
SHEET NO.

18-MAR-2016 09:44 MF-CO-F1160-B.dgn
p0051133A

MADERA COUNTY

NOTES:

1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.



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DATE 03/18/2016

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PARSONS

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 17 ALTERNATE SITE 1

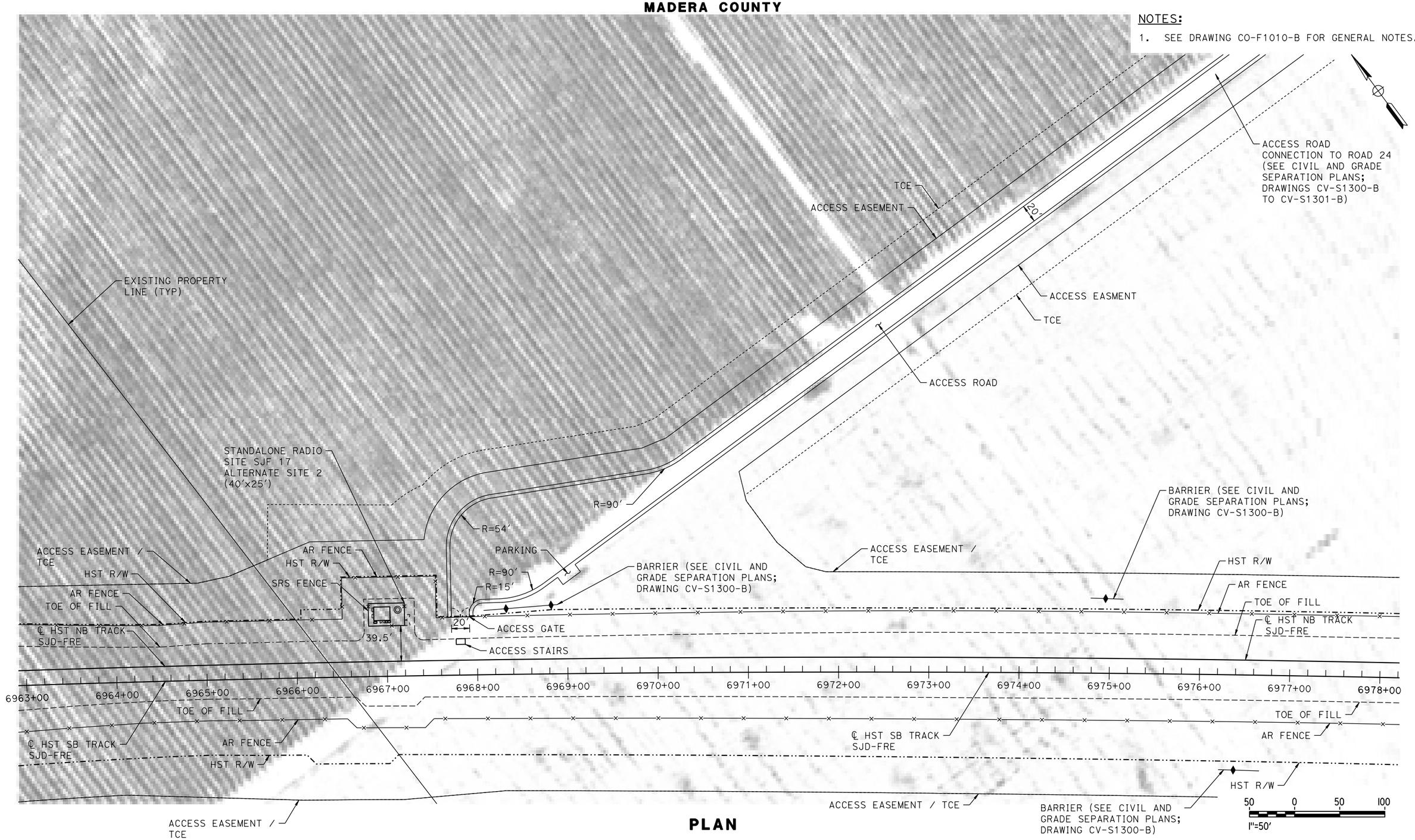
CONTRACT NO. HSR08-05
DRAWING NO. CO-F1290-B
SCALE AS SHOWN
SHEET NO.

08-MAR-2016 11:14 MF-CO-F1290-B.dgn
p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE SJF 17 ALTERNATE SITE 2

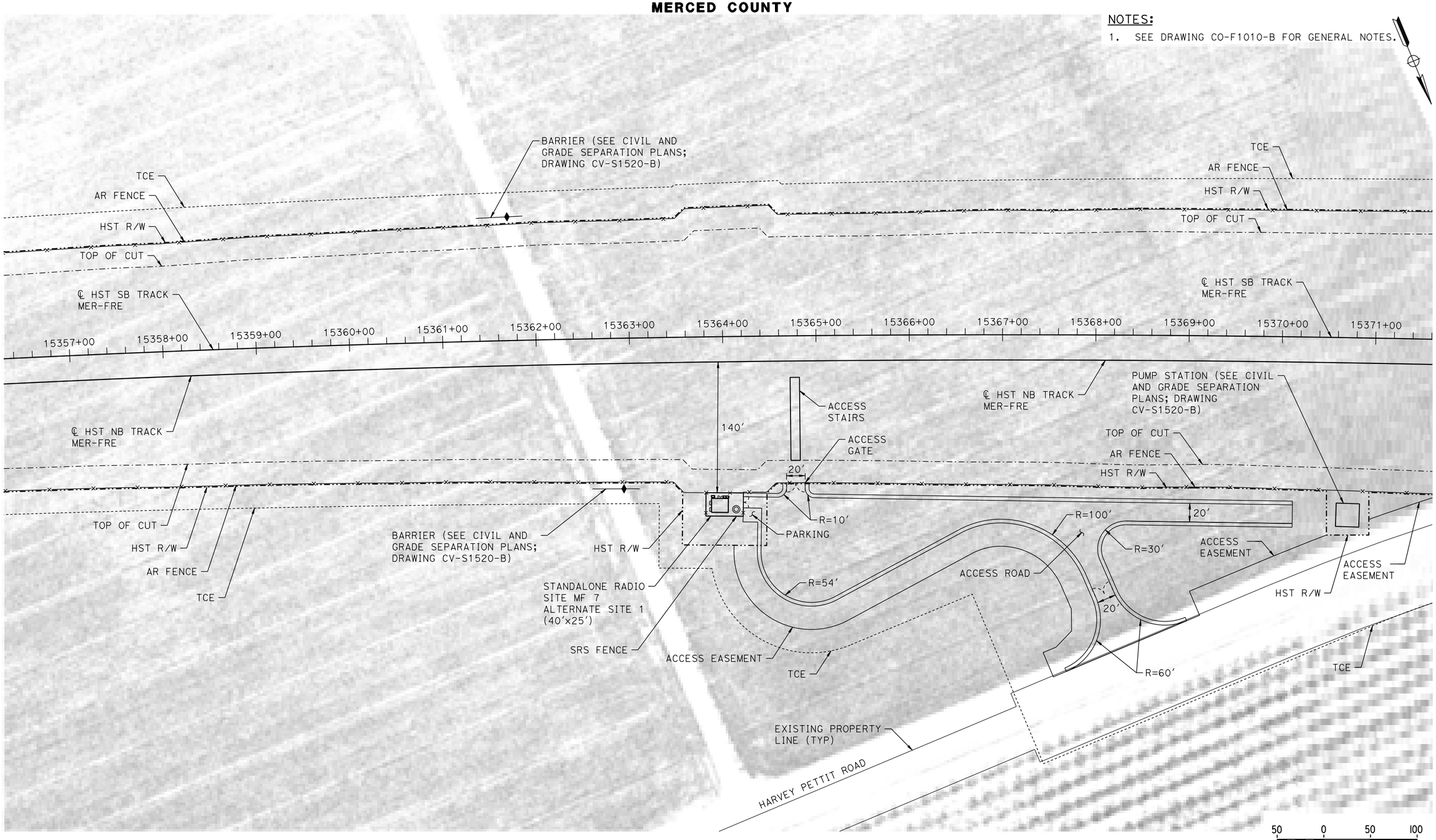
CONTRACT NO. HSR08-05
DRAWING NO. CO-F1300-B
SCALE AS SHOWN
SHEET NO.

MF-CO-F1300-B.dgn
10-MAR-2016 8:04
p0042226

MERCED COUNTY

NOTES:

1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE MF 7 ALTERNATE SITE 1

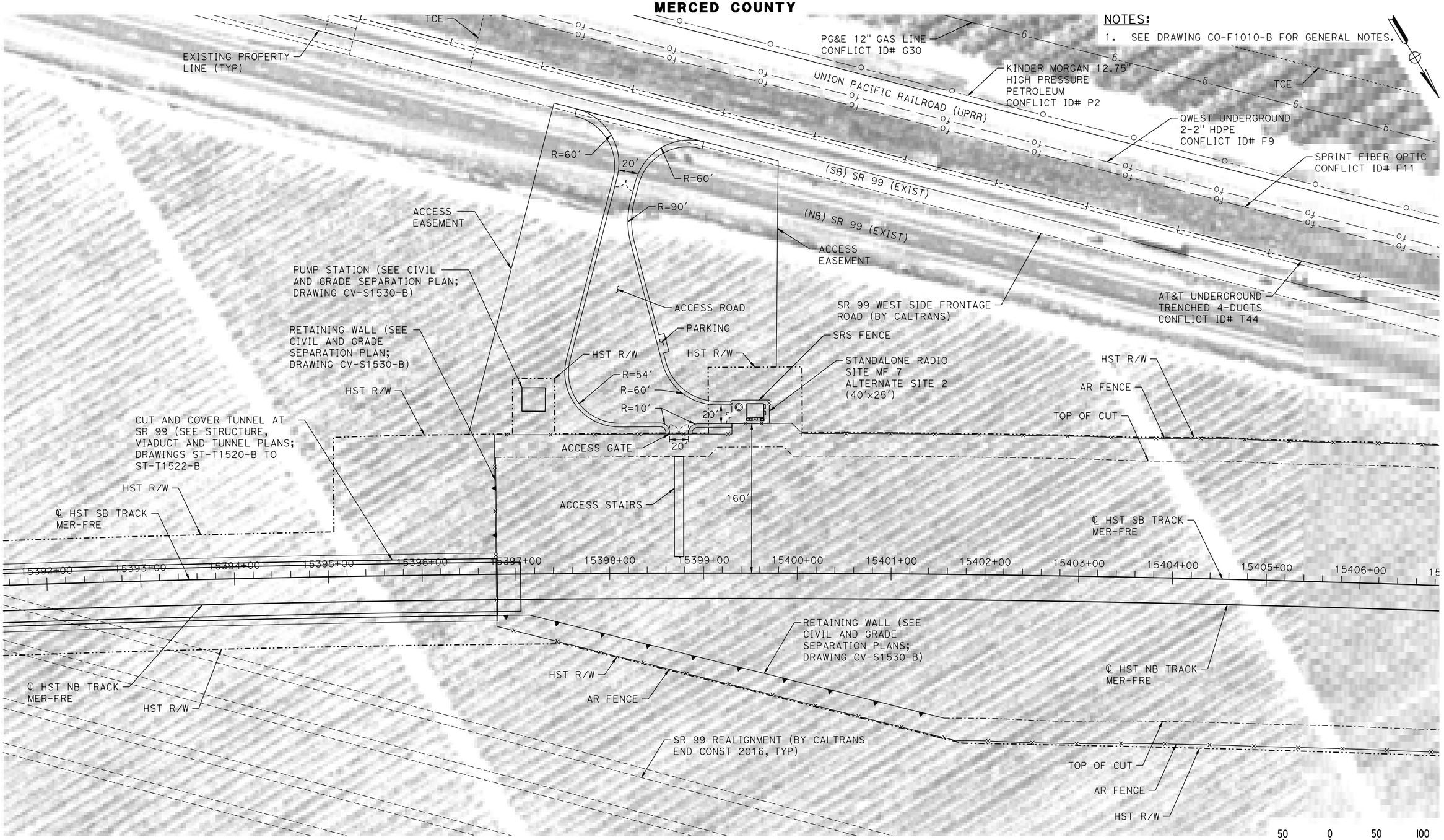
CONTRACT NO. HSR08-05
DRAWING NO. CO-F1520-B
SCALE AS SHOWN
SHEET NO.

MF-CO-F1520-B.dgn
08-MAR-2016 11:15
p005133A

MERCED COUNTY

NOTES:

1. SEE DRAWING CO-F1010-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
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IN CHARGE C. LEMLEY
DATE 03/18/2016

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PARSONS

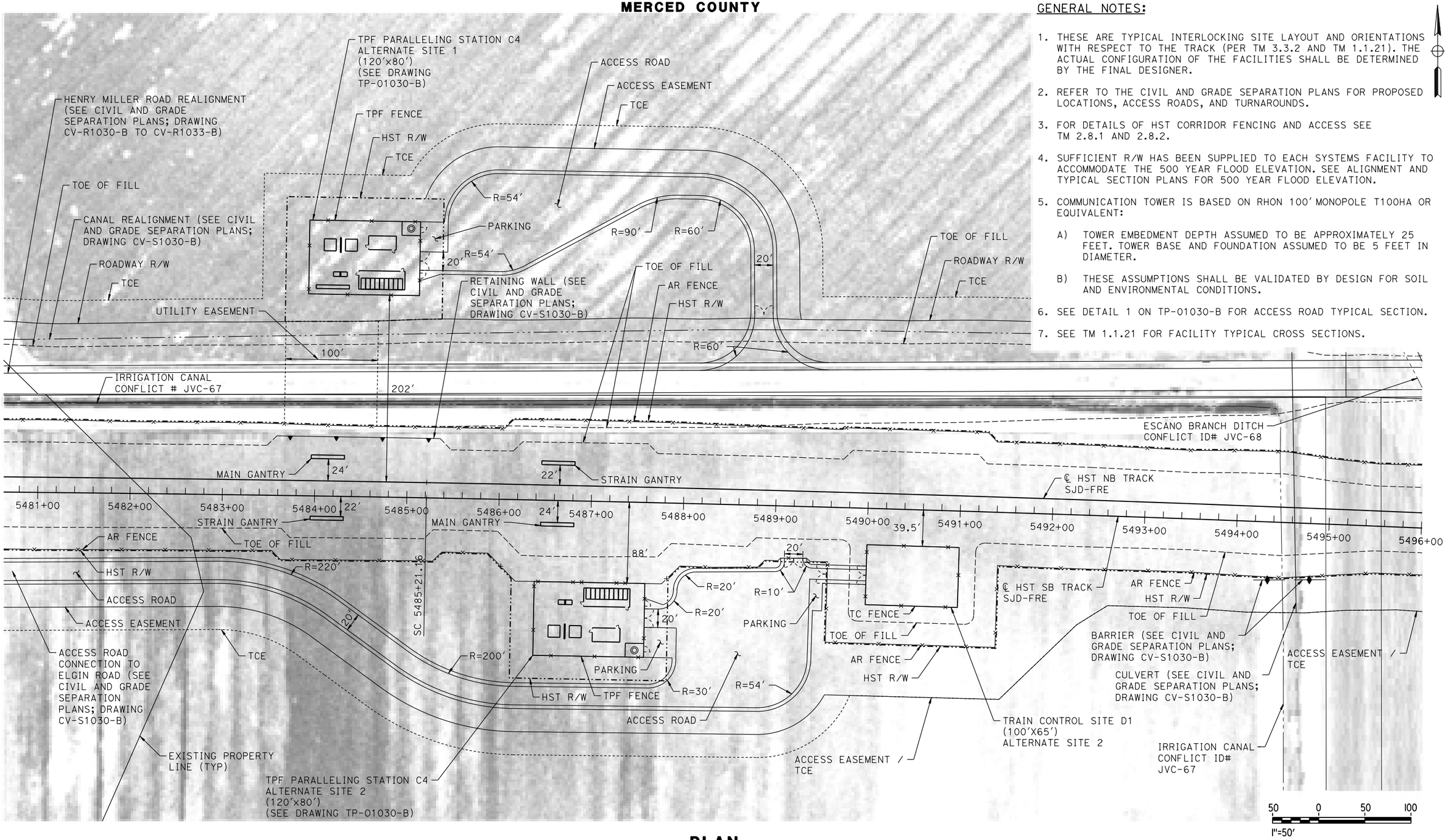
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE MF 7 ALTERNATE SITE 2

CONTRACT NO. HSR08-05
DRAWING NO. CO-F1530-B
SCALE AS SHOWN
SHEET NO.

MF-CO-F1530-B.dgn
08-MAR-2016 11:16
p005133A

MERCED COUNTY



GENERAL NOTES:

1. THESE ARE TYPICAL INTERLOCKING SITE LAYOUT AND ORIENTATIONS WITH RESPECT TO THE TRACK (PER TM 3.3.2 AND TM 1.1.21). THE ACTUAL CONFIGURATION OF THE FACILITIES SHALL BE DETERMINED BY THE FINAL DESIGNER.
2. REFER TO THE CIVIL AND GRADE SEPARATION PLANS FOR PROPOSED LOCATIONS, ACCESS ROADS, AND TURNAROUNDS.
3. FOR DETAILS OF HST CORRIDOR FENCING AND ACCESS SEE TM 2.8.1 AND 2.8.2.
4. SUFFICIENT R/W HAS BEEN SUPPLIED TO EACH SYSTEMS FACILITY TO ACCOMMODATE THE 500 YEAR FLOOD ELEVATION. SEE ALIGNMENT AND TYPICAL SECTION PLANS FOR 500 YEAR FLOOD ELEVATION.
5. COMMUNICATION TOWER IS BASED ON RHON 100' MONOPOLE T100HA OR EQUIVALENT:
   - A) TOWER EMBEDMENT DEPTH ASSUMED TO BE APPROXIMATELY 25 FEET. TOWER BASE AND FOUNDATION ASSUMED TO BE 5 FEET IN DIAMETER.
   - B) THESE ASSUMPTIONS SHALL BE VALIDATED BY DESIGN FOR SOIL AND ENVIRONMENTAL CONDITIONS.
6. SEE DETAIL 1 ON TP-01030-B FOR ACCESS ROAD TYPICAL SECTION.
7. SEE TM 1.1.21 FOR FACILITY TYPICAL CROSS SECTIONS.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY J.CASTILLO
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DATE 03/18/2016

RECORD SET
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SUBMITTAL

NOT FOR
CONSTRUCTION

PARSONS

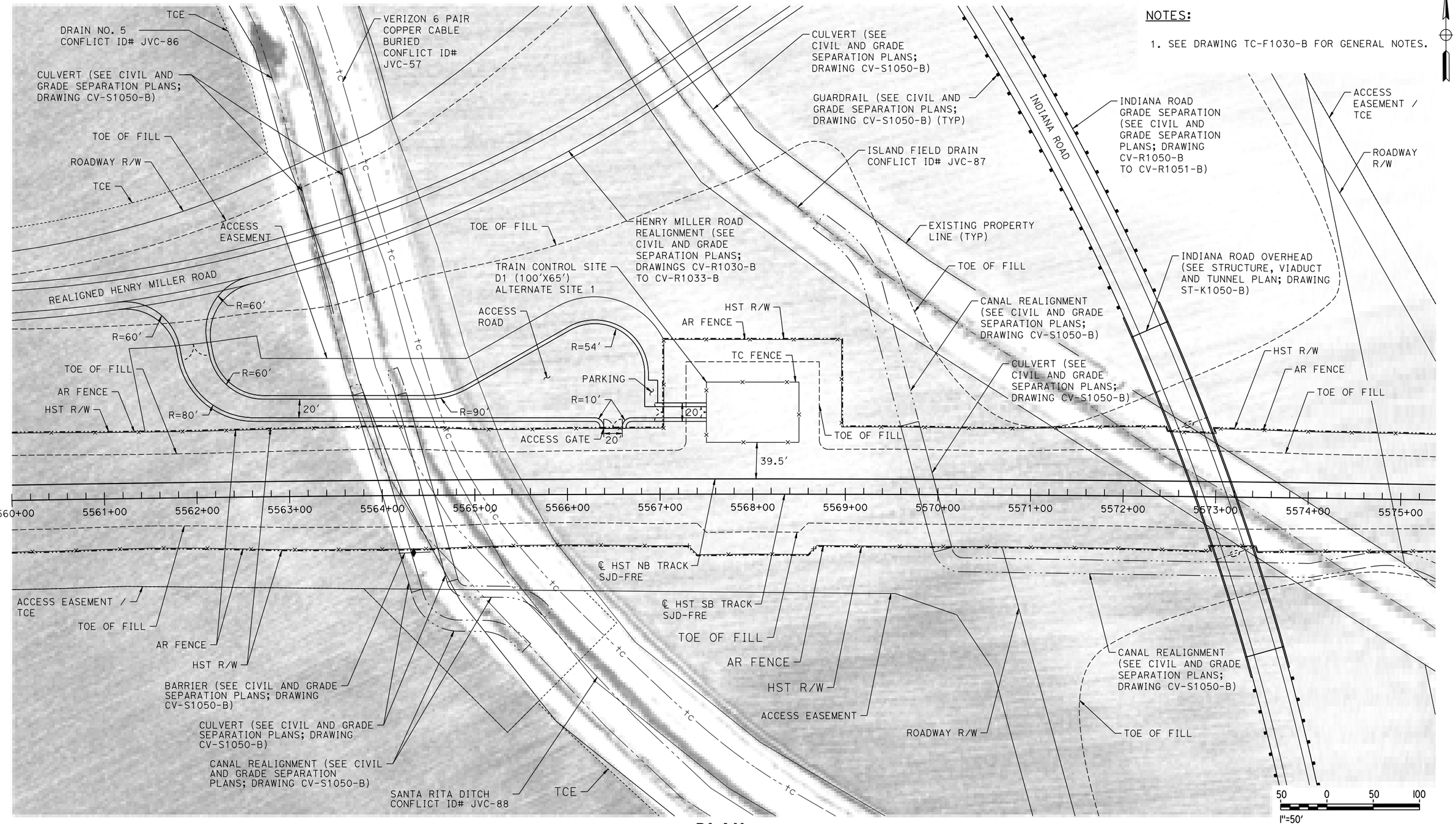
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D1 ALTERNATE SITE 2

CONTRACT NO. HSR08-05
DRAWING NO. TC-F1030-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1030-B.dgn
18-MAR-2016 09:45
p005133A

MERCED COUNTY



NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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DATE 03/18/2016

RECORD SET
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NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

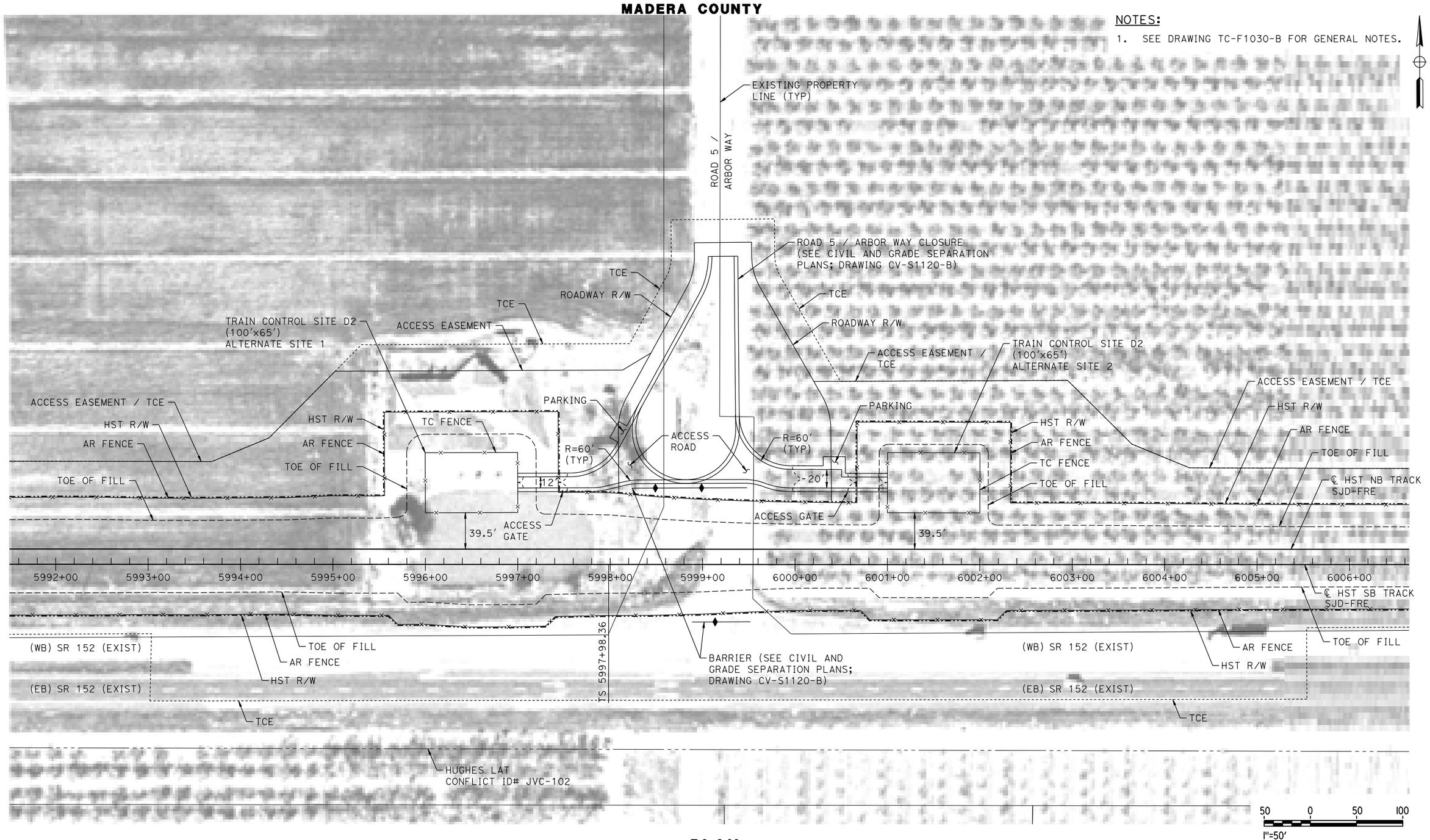
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D1 ALTERNATE SITE 1

CONTRACT NO. HSR08-05
DRAWING NO. TC-F1050-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1050-B.dgn
10-MAR-2016 8:05
p0042226

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
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NOT FOR CONSTRUCTION

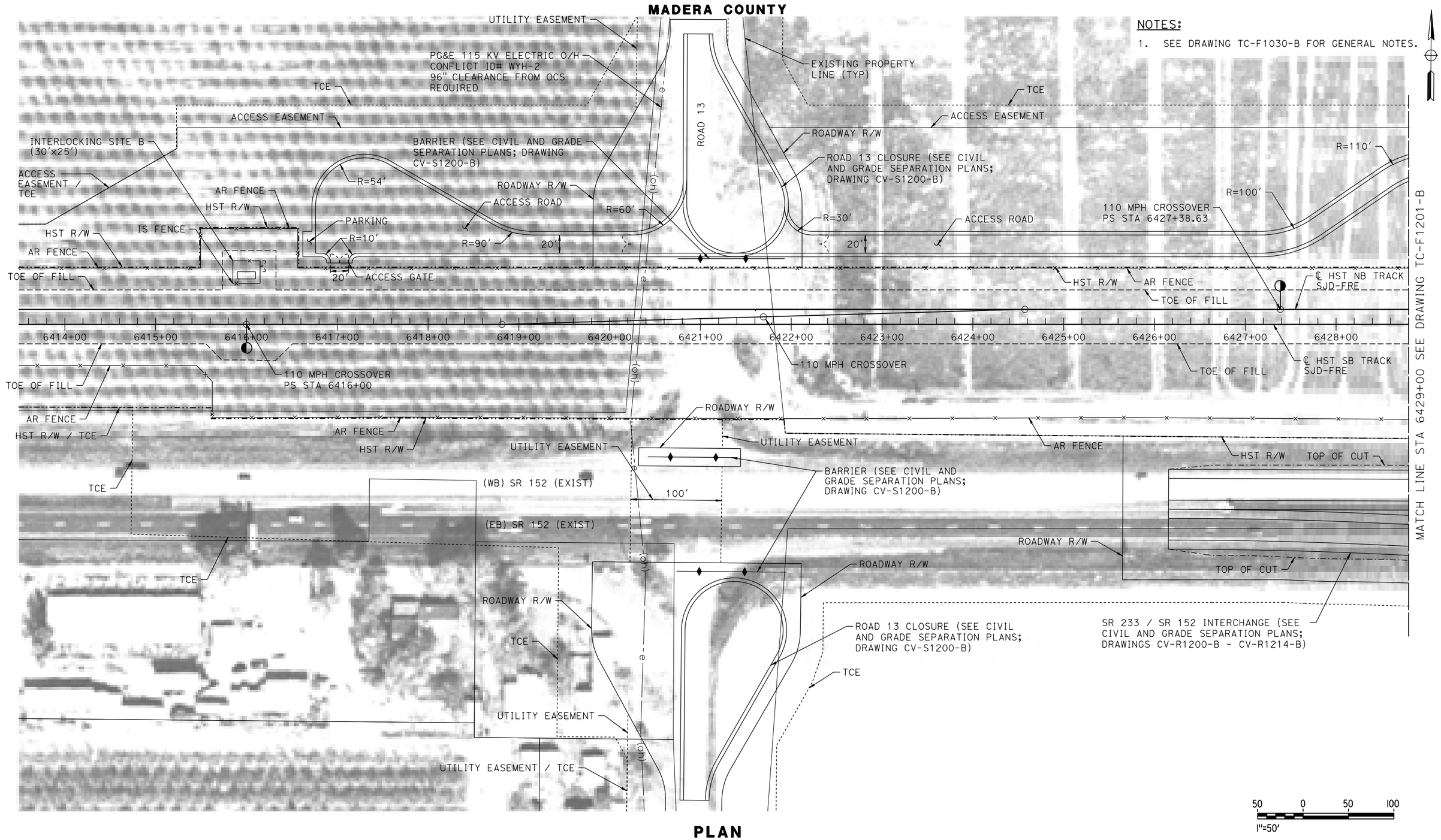
PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D2 ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. TC-F1120-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1120-B.dgn
08-MAR-2016 11:19
p005133A



NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

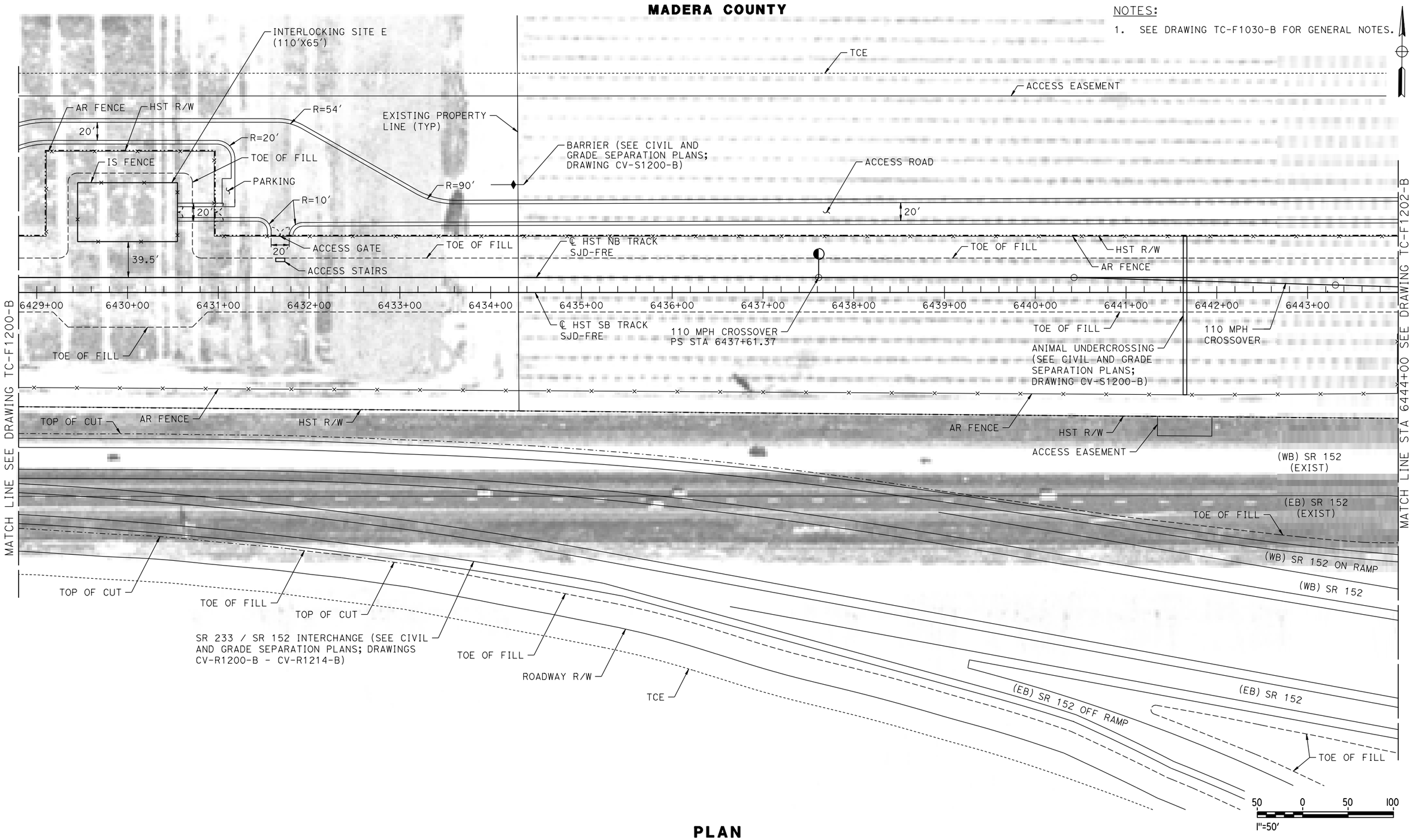
PARSONS

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6416+00

CONTRACT NO. HSR08-05
DRAWING NO. TC-F1200-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1200-B.dgn
18-MAR-2016 09:45
p005133A



NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE E @ 6430+00

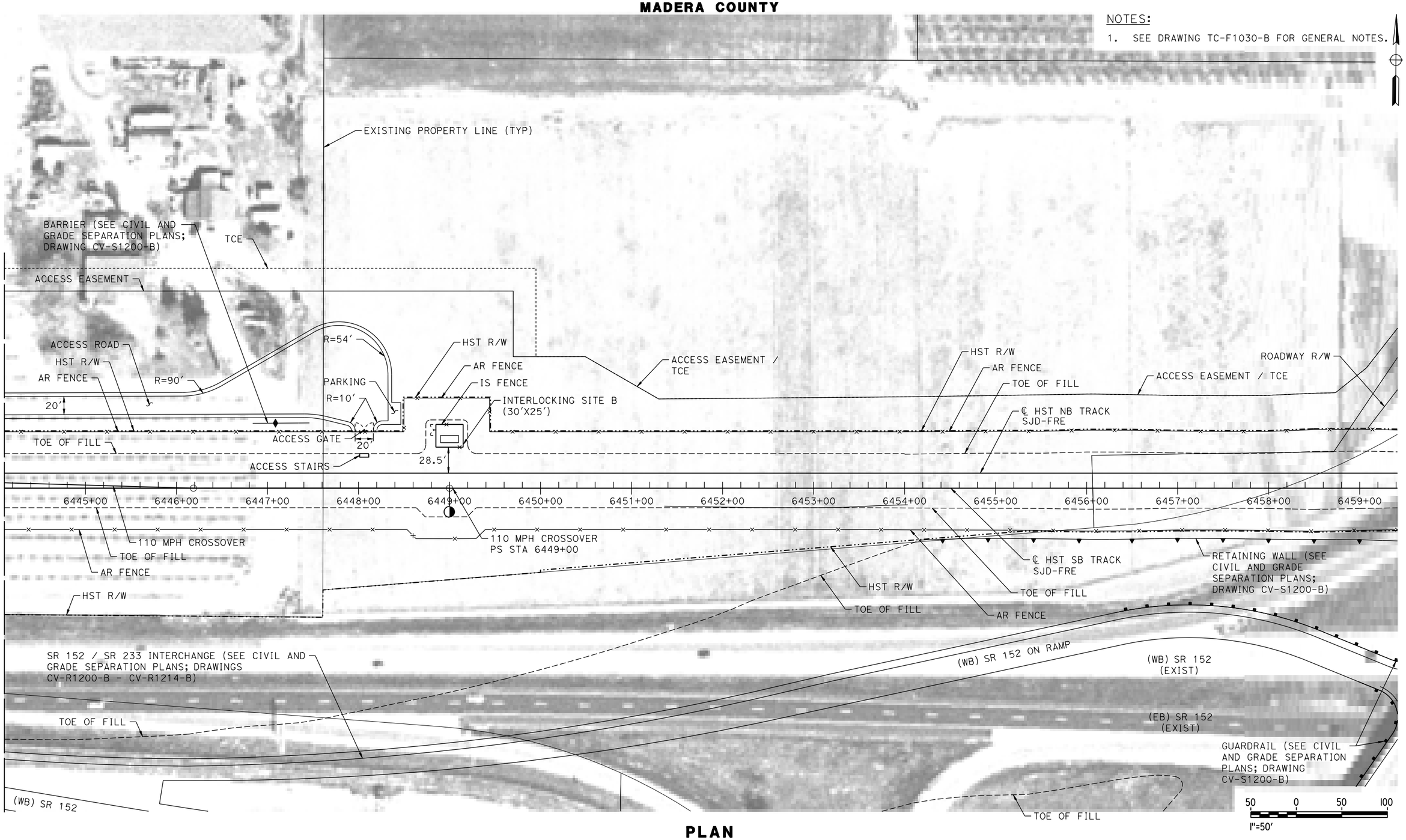
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1201-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1201-B.dgn
18-MAR-2016 09:45
p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

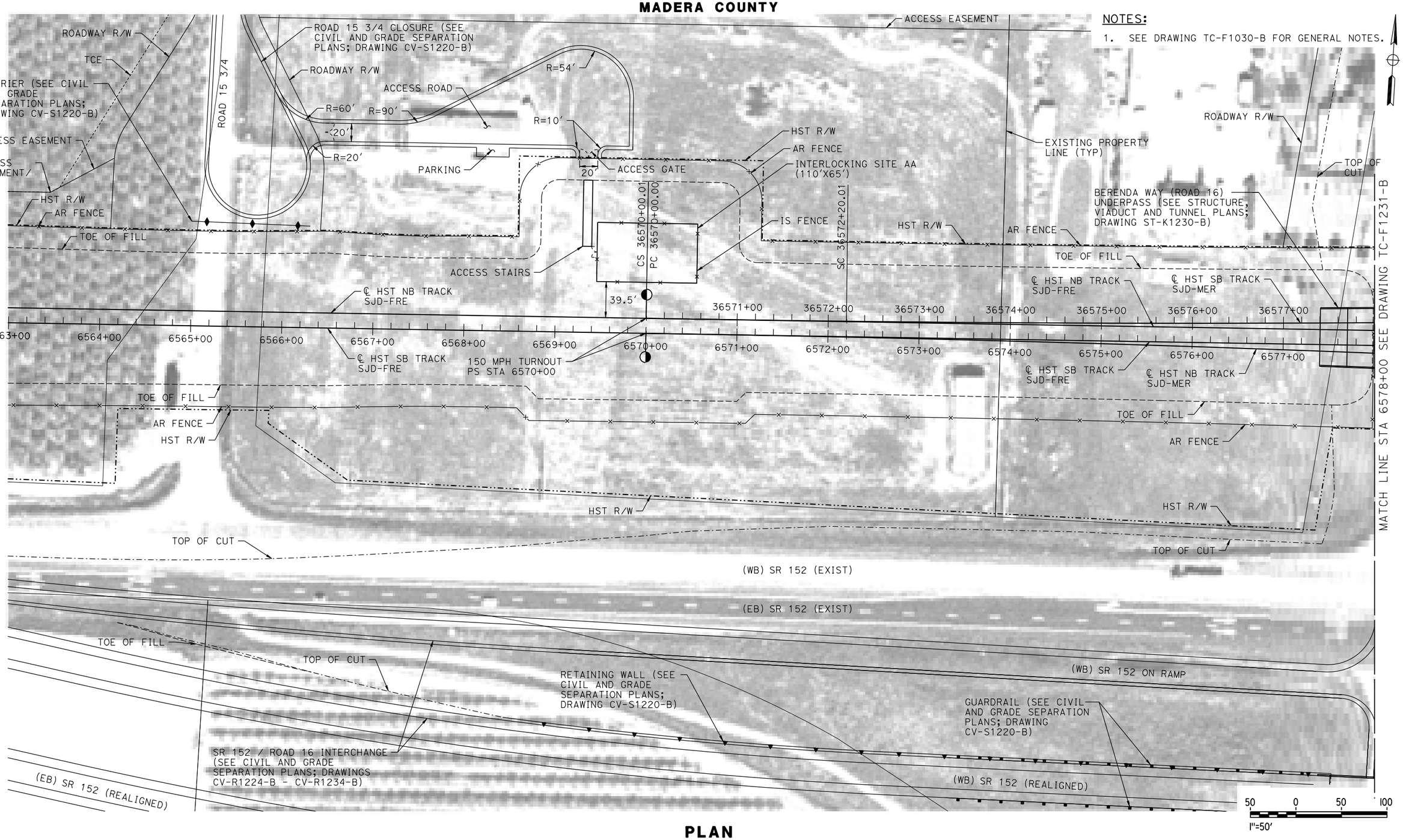
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6449+00

CONTRACT NO. HSR08-05
DRAWING NO. TC-F1202-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1202-B.dgn
10-MAR-2016 8:05
p0042226

MADERA COUNTY



NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AA @ 6570+00

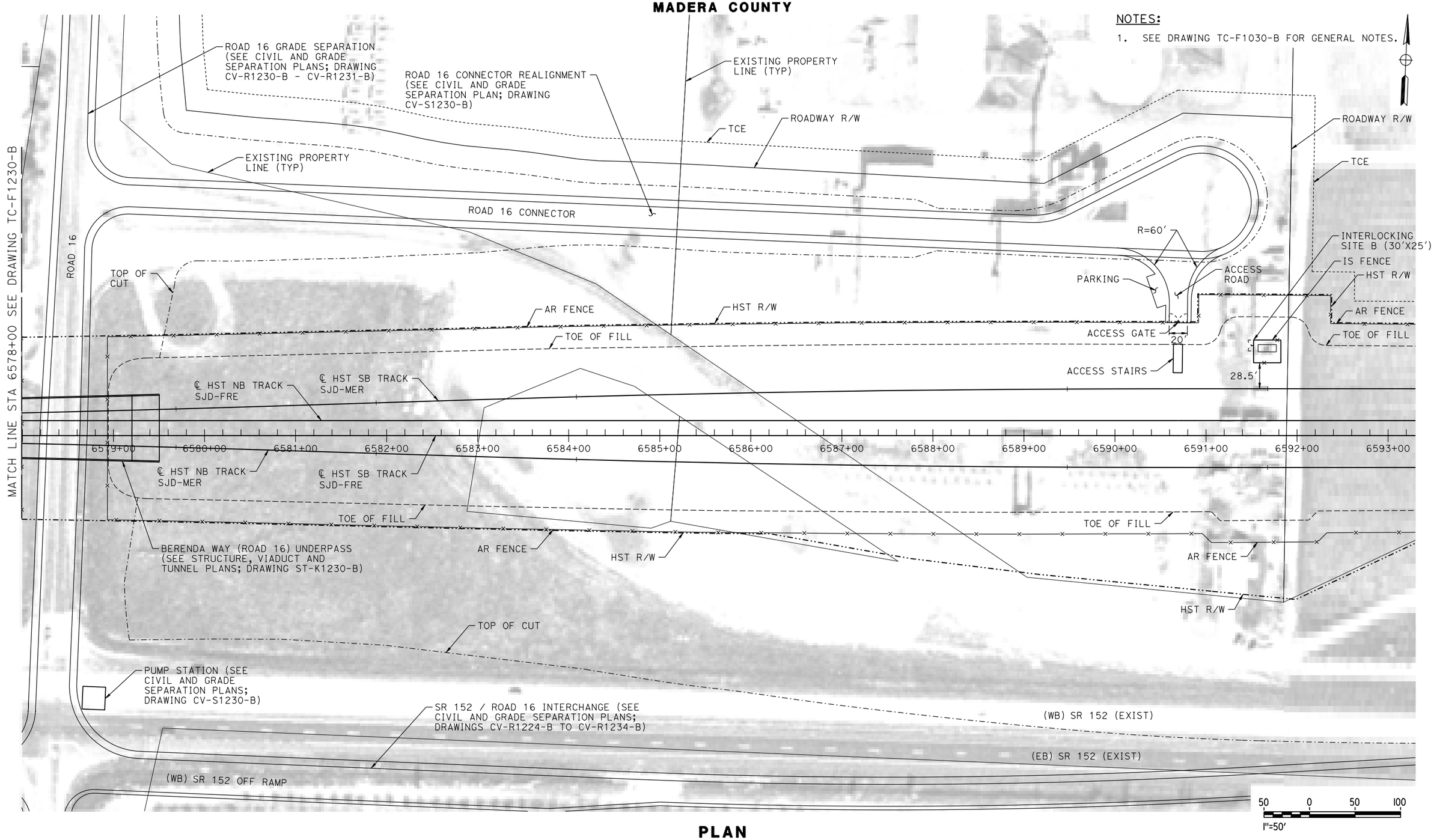
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1230-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1230-B.dgn
18-MAR-2016 09:46
p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY K. MA
IN CHARGE C. LEMLEY
DATE 09/09/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6591+65

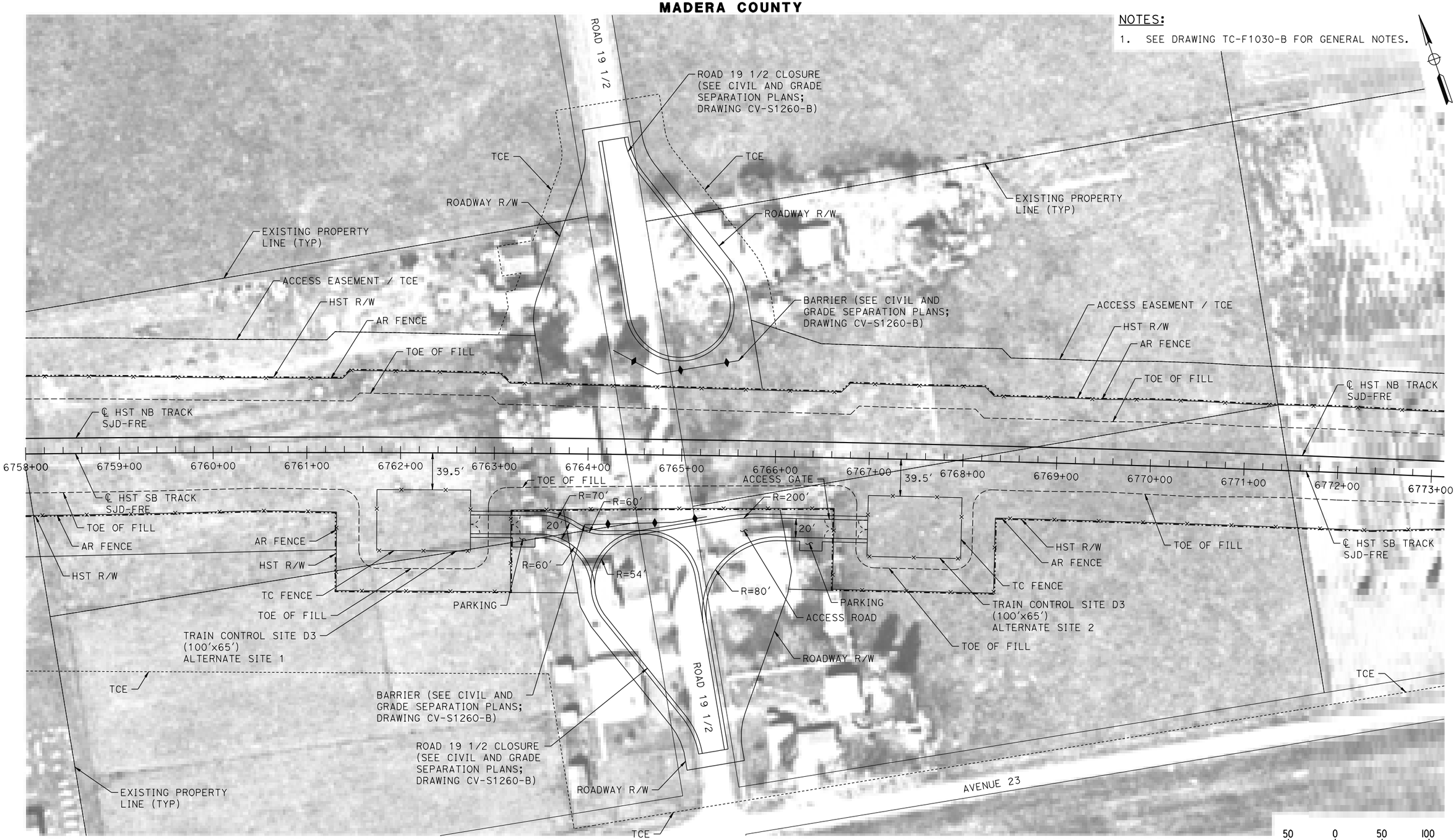
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1231-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1231-B.dgn
02-SEP-2016 2:10
p0042226

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D3 ALTERNATE SITES 1 & 2

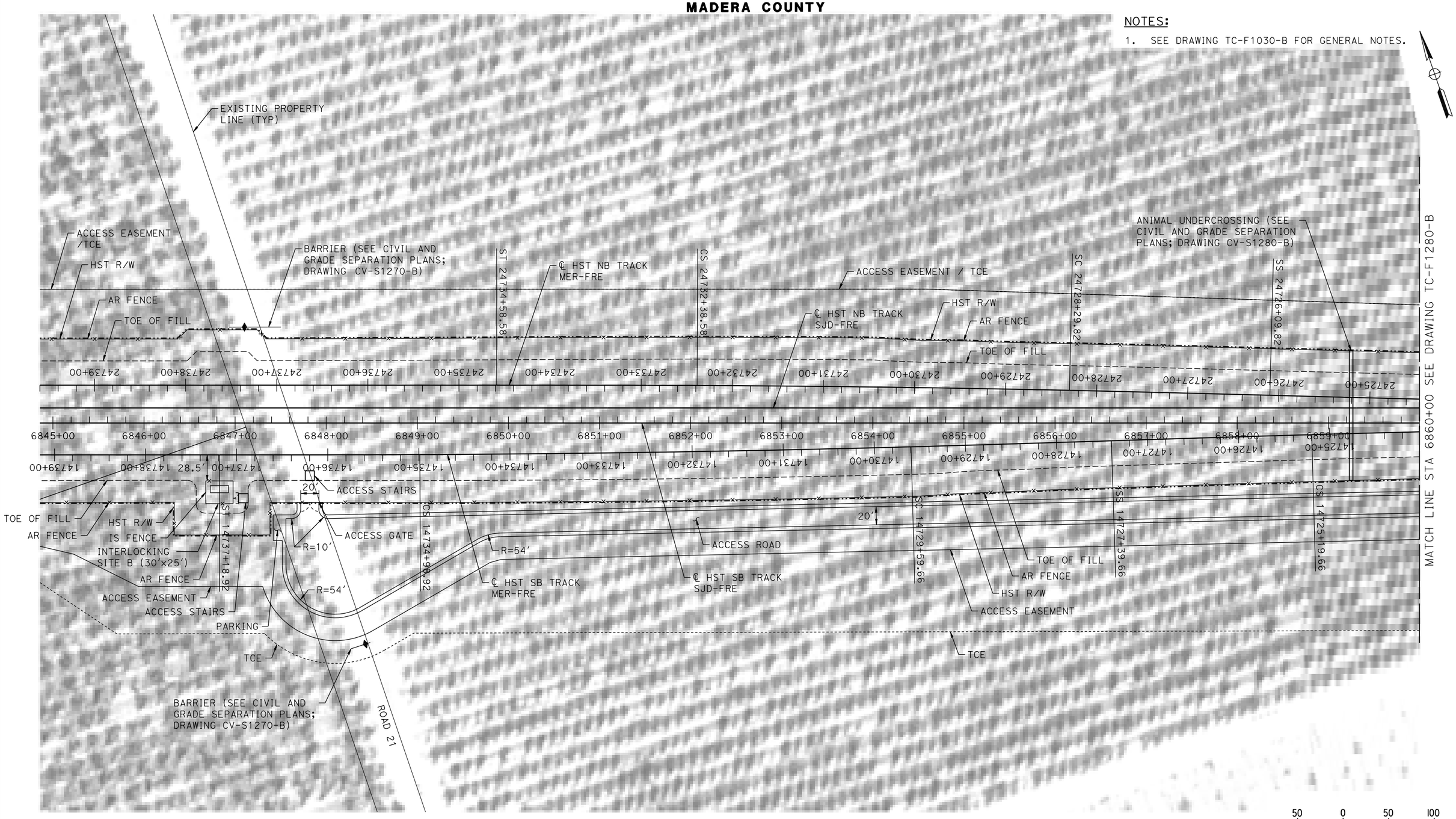
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1260-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1260-B.dgn
18-MAR-2016 09:46
p0051133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 6846+80

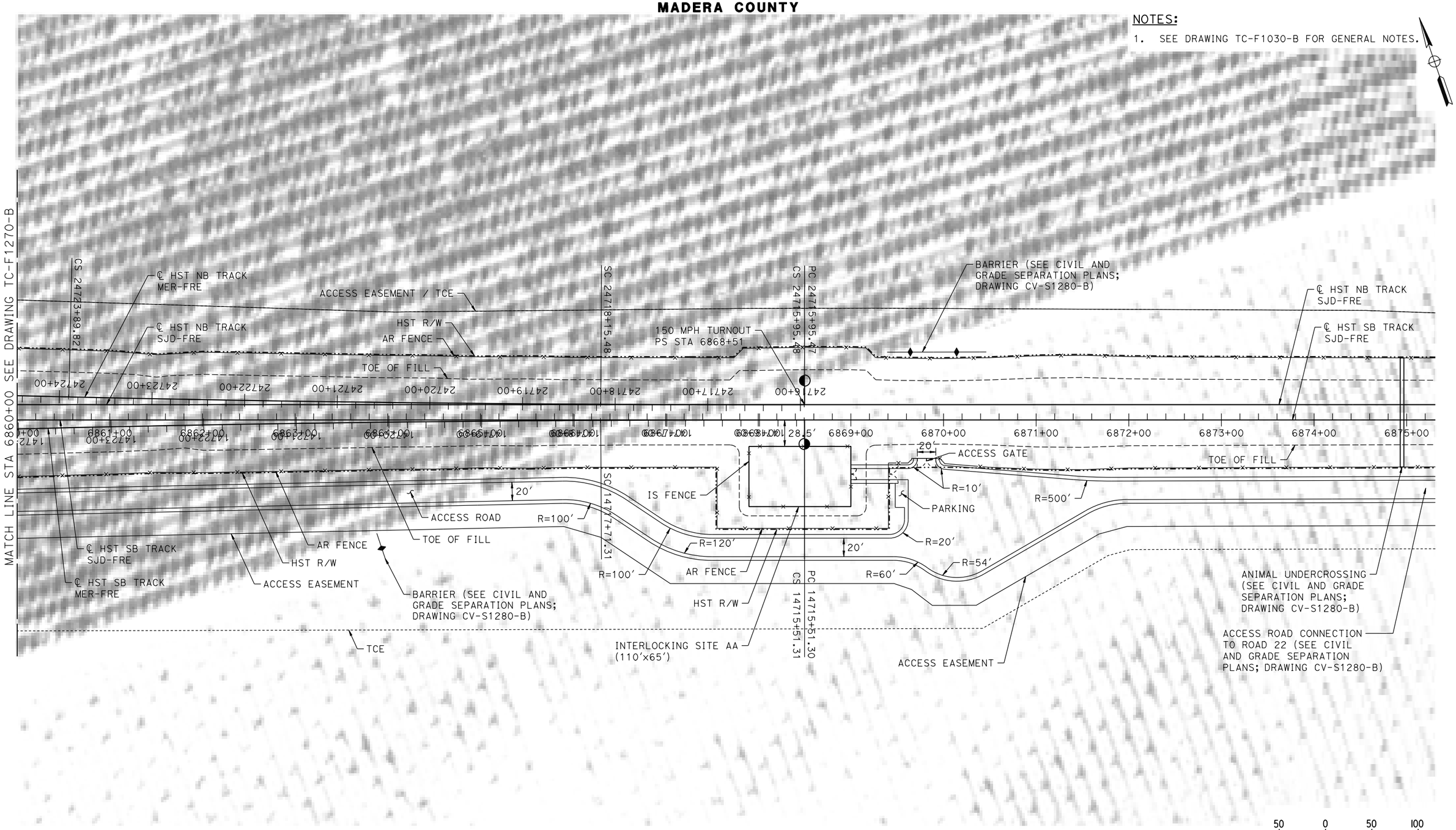
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1270-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1270-B.dgn
08-MAR-2016 1:22
p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AA @ 6868+50

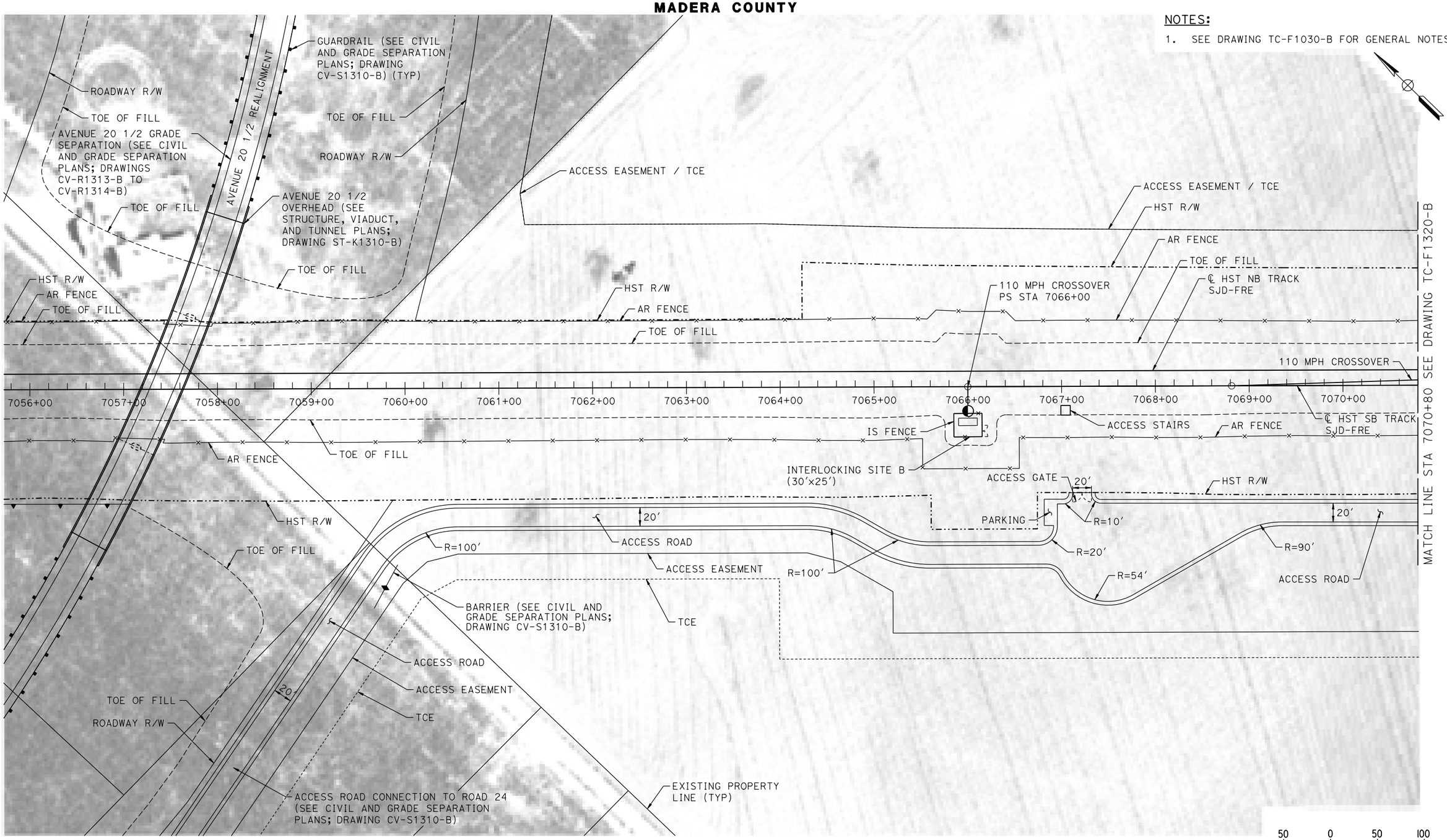
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1280-B
SCALE AS SHOWN
SHEET NO.

08-MAR-2016 11:23 MF-TC-F1280-B.dgn
p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 7066+00

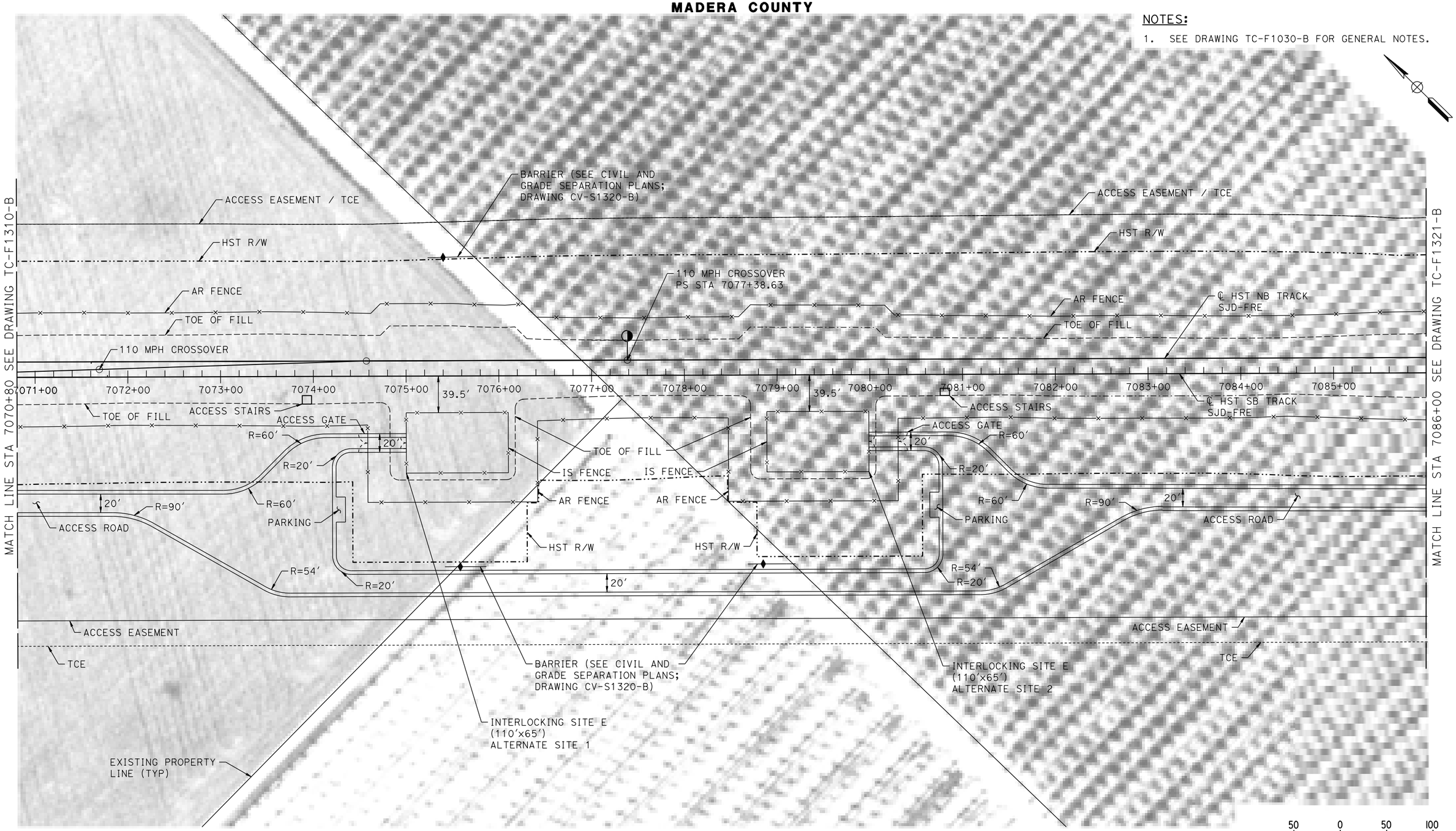
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1310-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1310-B.dgn
18-MAR-2016 09:47
p0051133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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DATE 03/18/2016

RECORD SET
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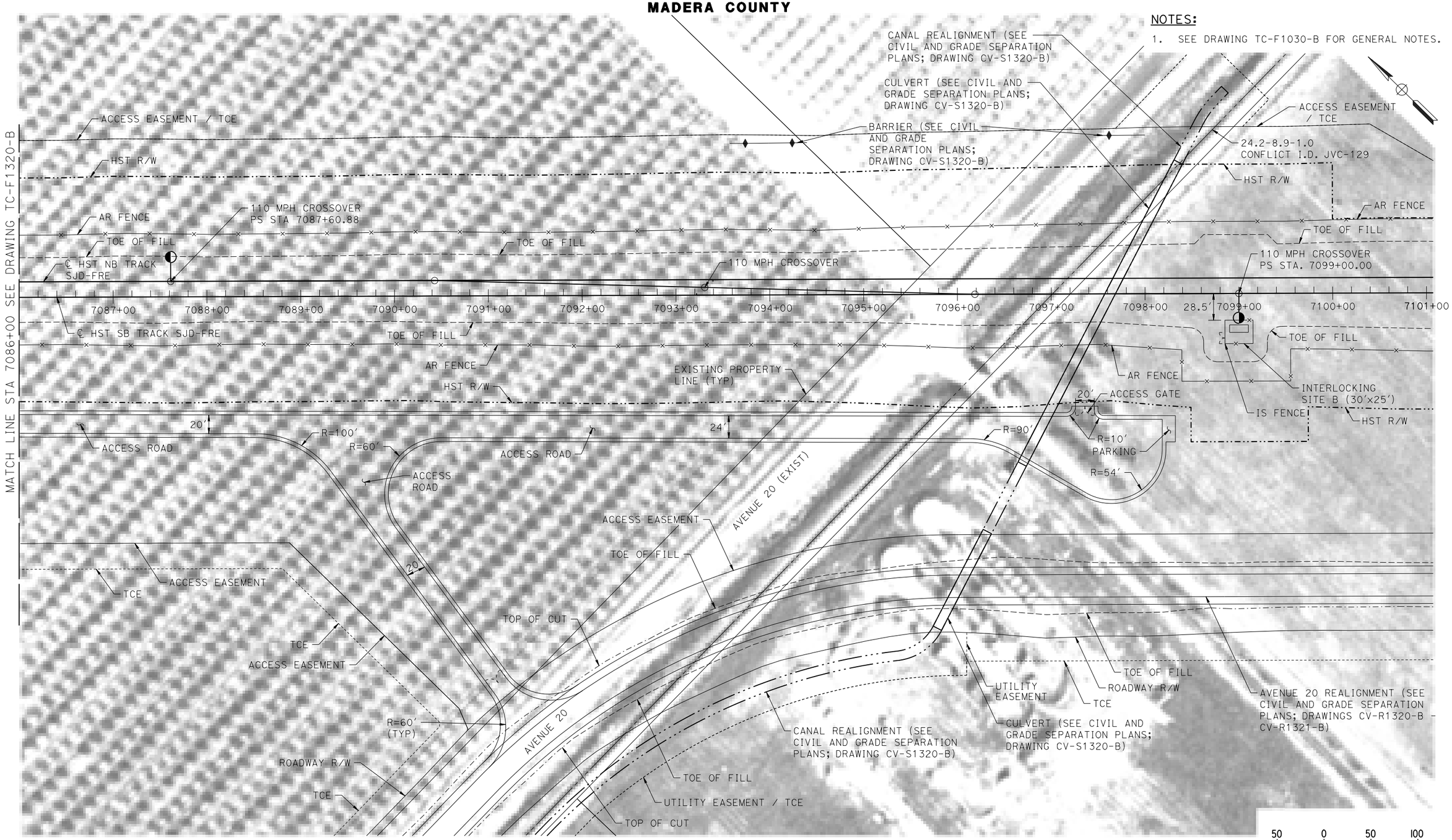
PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE E ALT 1 @ 7075+50 & ALT 2 @ 7079+50

CONTRACT NO. HSR08-05
DRAWING NO. TC-F1320-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1320-B.dgn
08-MAR-2016 11:24
p005133A



NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 7099+00

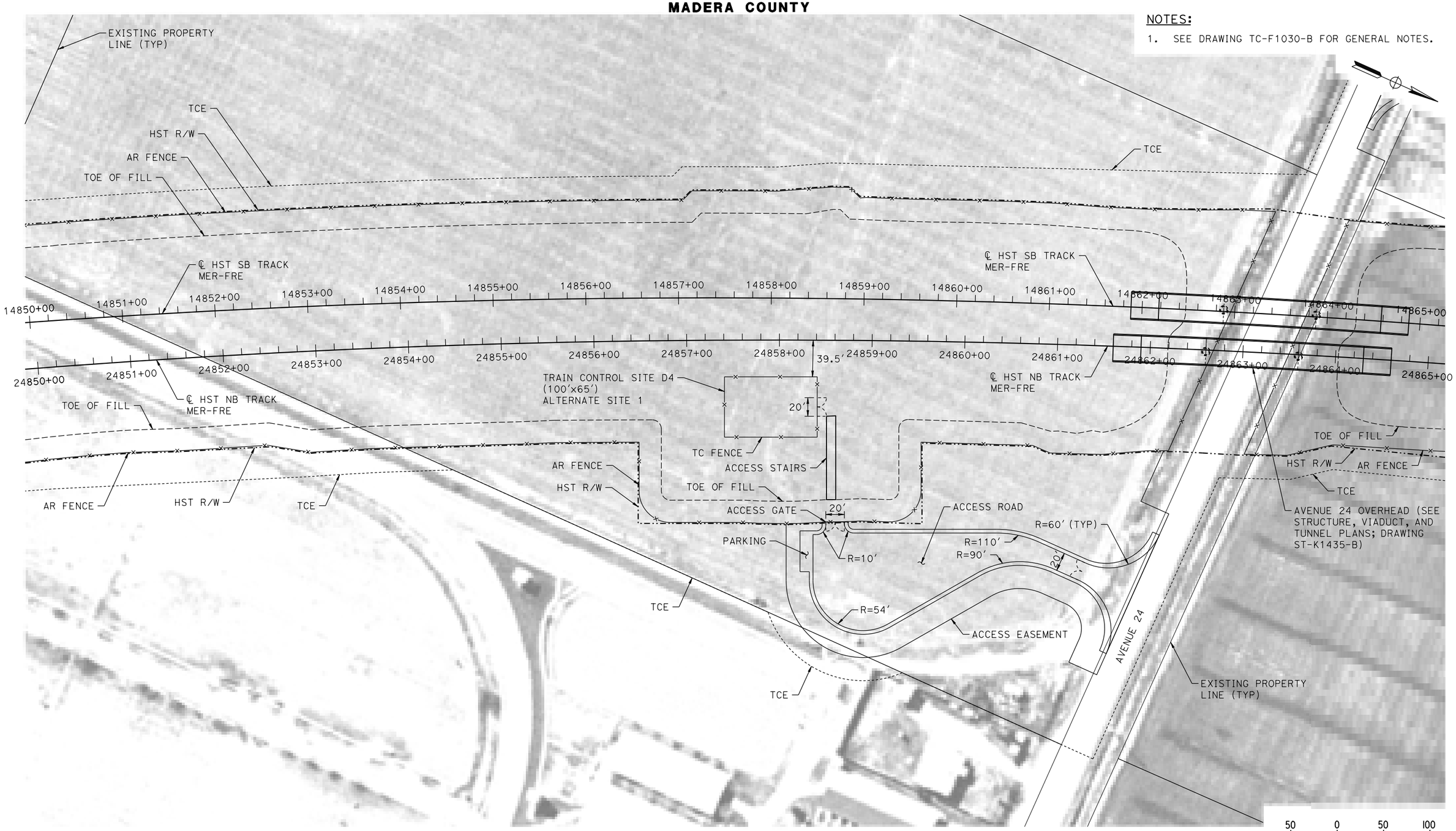
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1321-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1321-B.dgn
18-MAR-2016 11:21
p0051133a

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D4 ALTERNATE SITE 1

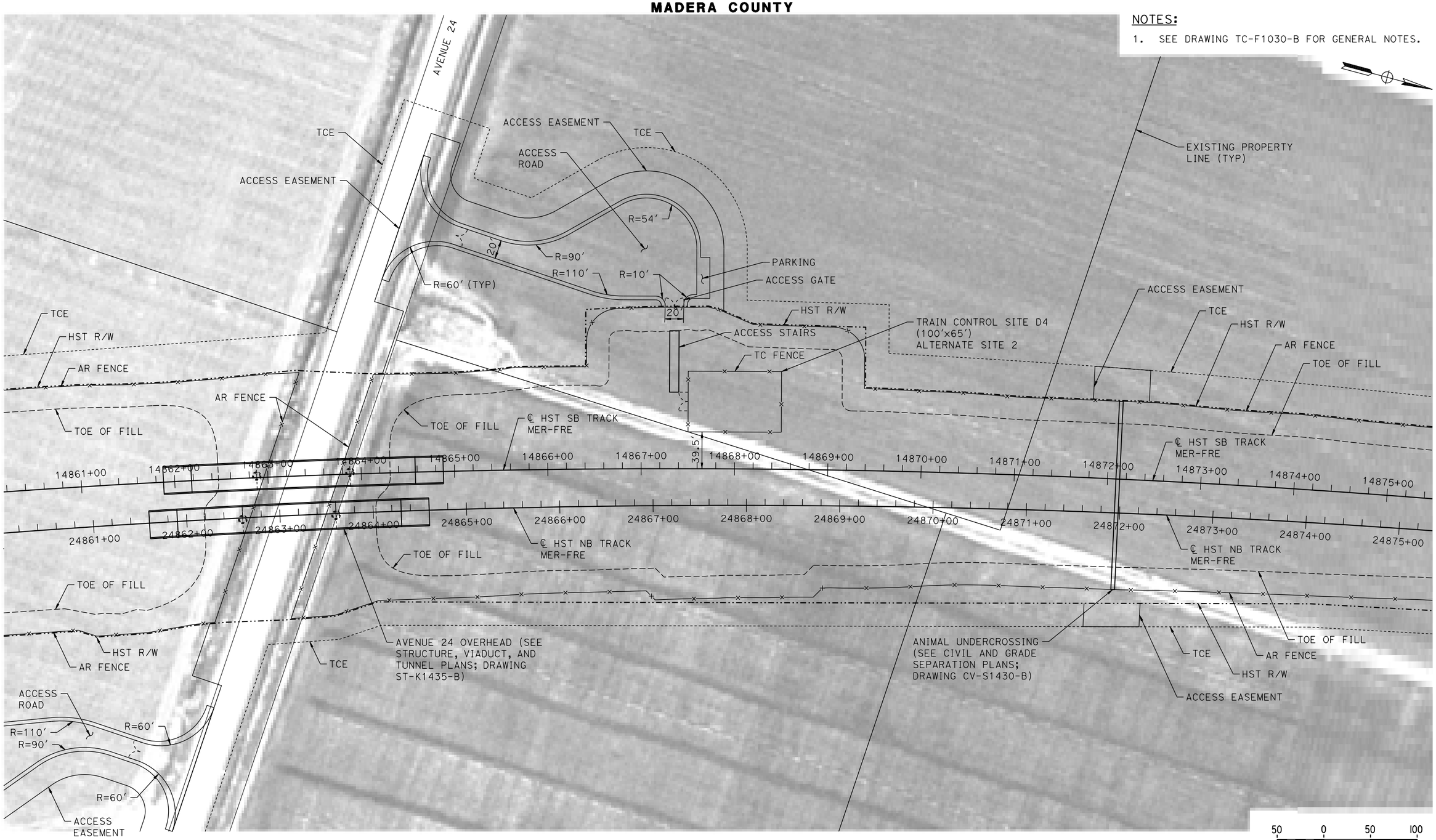
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1430-B
SCALE AS SHOWN
SHEET NO.

08-MAR-2016 11:24 MF-TC-F1430-B.dgn
p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
DRAWN BY J.CASTILLO
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D4 ALTERNATE SITE 2

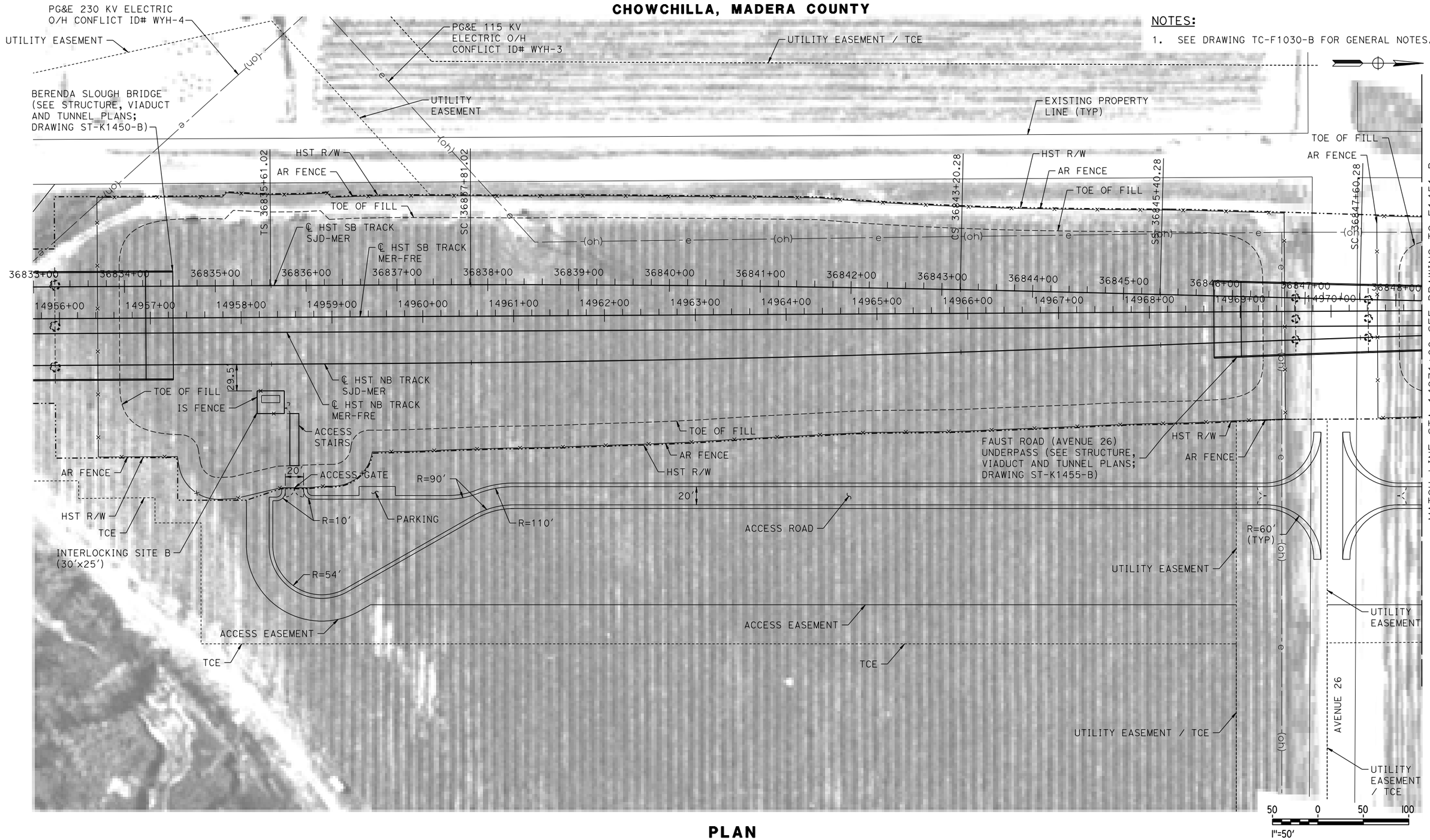
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1431-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1431-B.dgn
08-MAR-2016 11:25
p0051133A

CHOWCHILLA, MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 14958+30

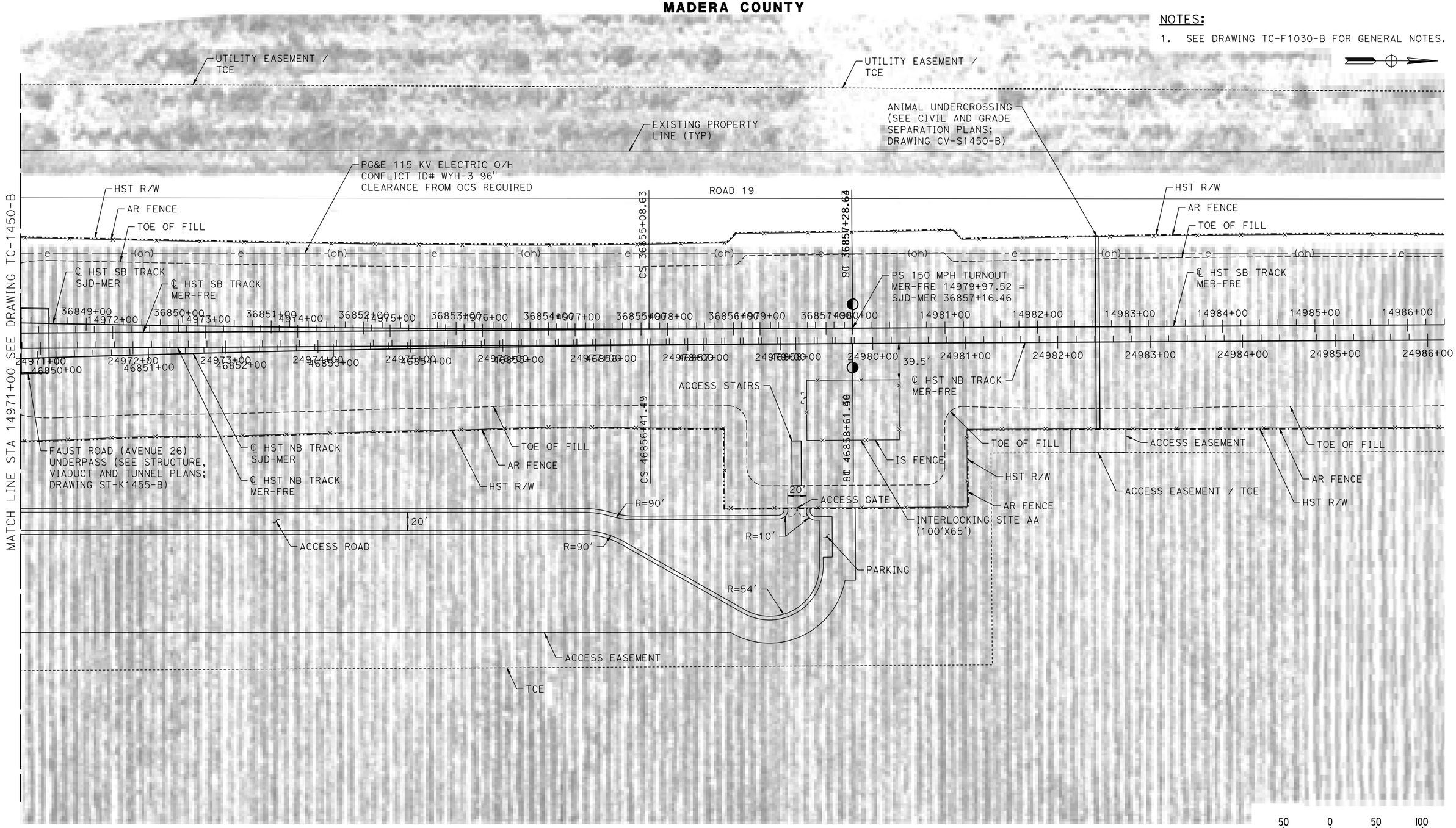
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1450-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1450-B.dgn 18-MAR-2016 09:47 p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AA @ 14980+00

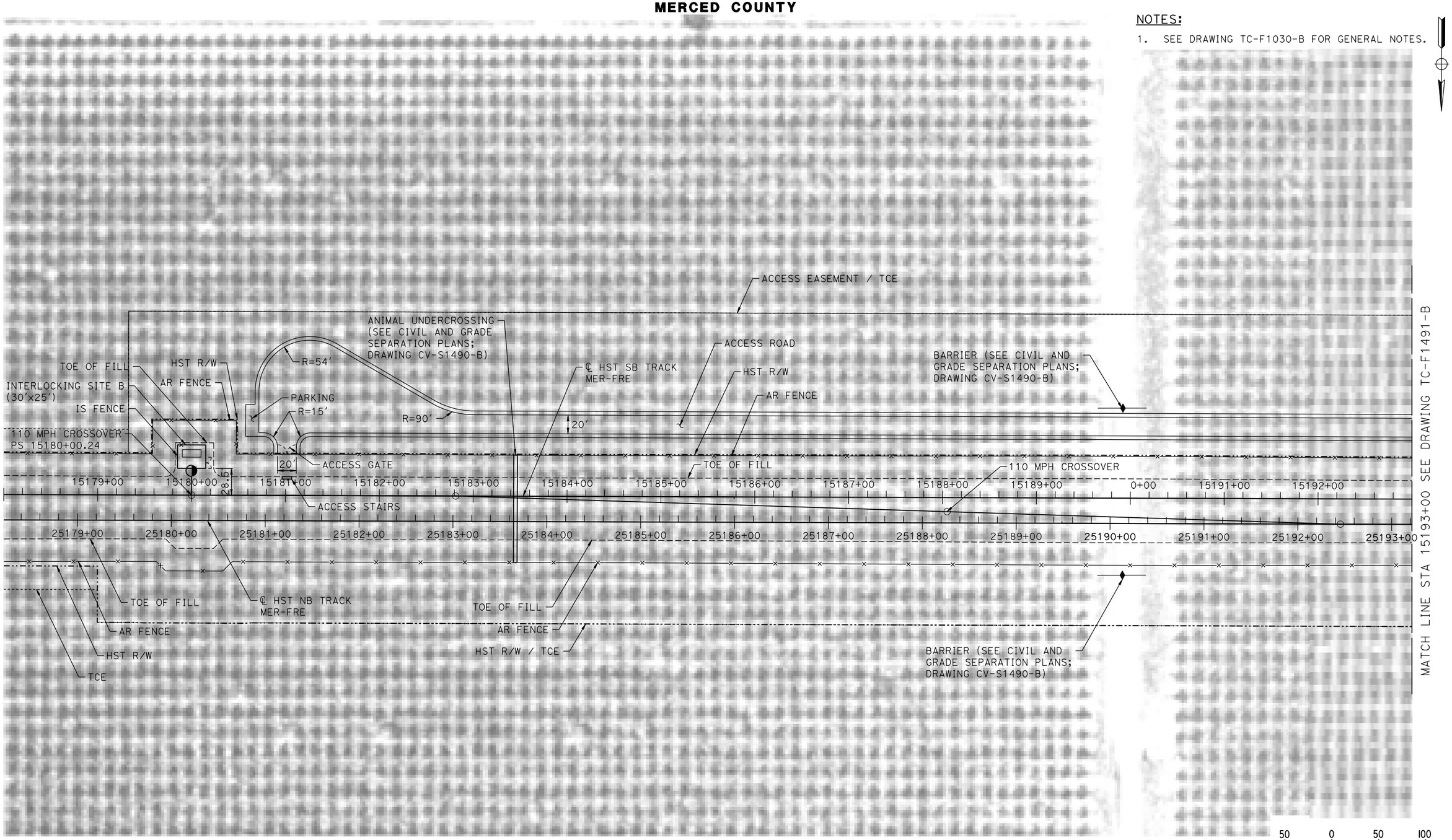
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1451-B
SCALE AS SHOWN
SHEET NO.

08-MAR-2016 11:26 MF-TC-F1451-B.dgn
p0051133A

MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. GURA
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IN CHARGE C. LEMLEY
DATE 03/18/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 15180+00

CONTRACT NO. HSR08-05
DRAWING NO. TC-F1490-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1490-B.dgn
08-MAR-2016 11:26
p005133A

MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B GENERAL NOTES.

PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

PARSONS

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE E @ 15197+00

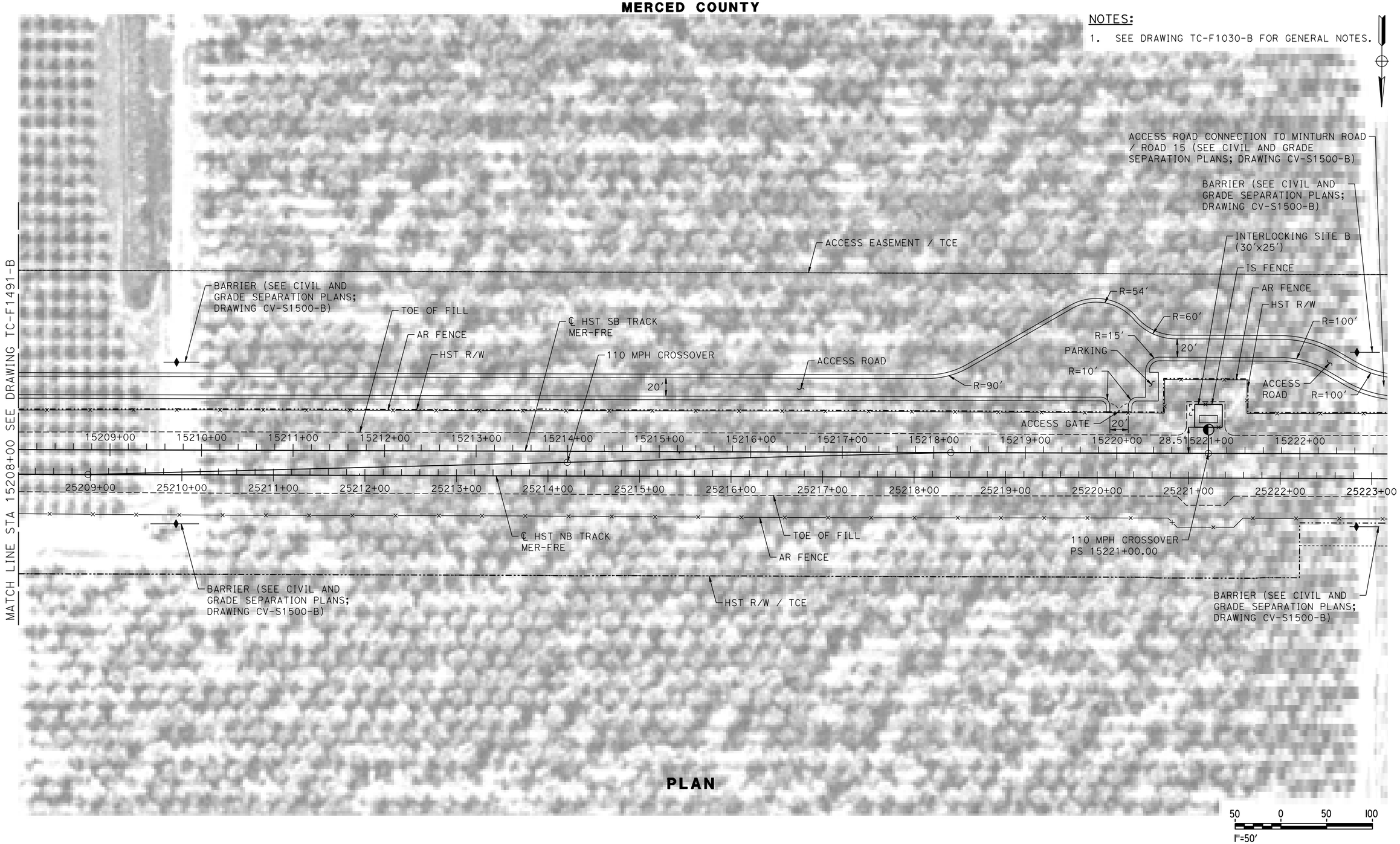
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1491-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1491-B.dgn
18-MAR-2016 09:47
p005133A

MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

50 0 50 100

1"=50'

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

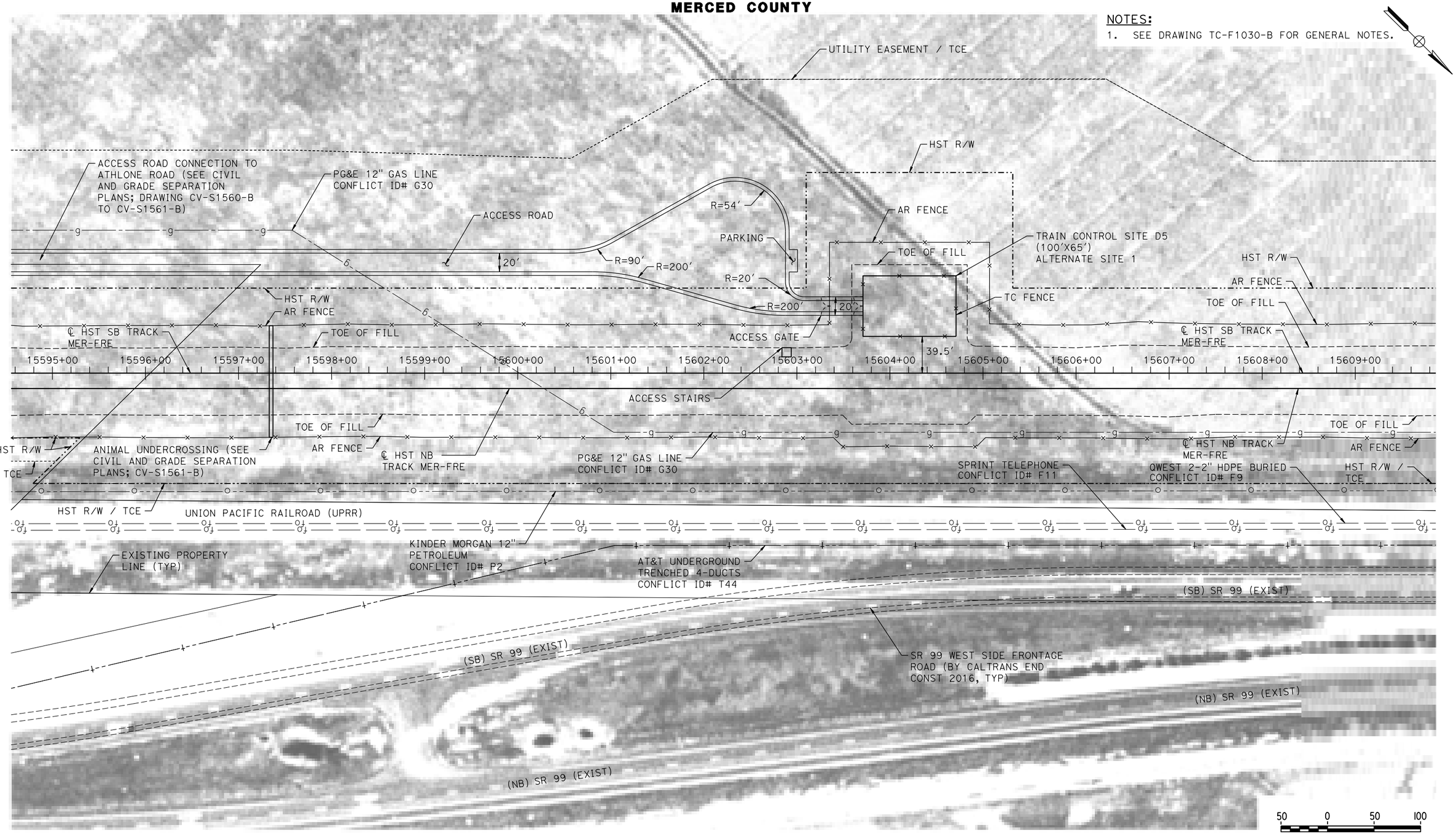
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE B @ 15221+00

CONTRACT NO. HSR08-05
DRAWING NO. TC-F1500-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1500-B.dgn
08-MAR-2016 11:27
p005133A

MERCED COUNTY

NOTES:
1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D5 ALTERNATE SITE 1

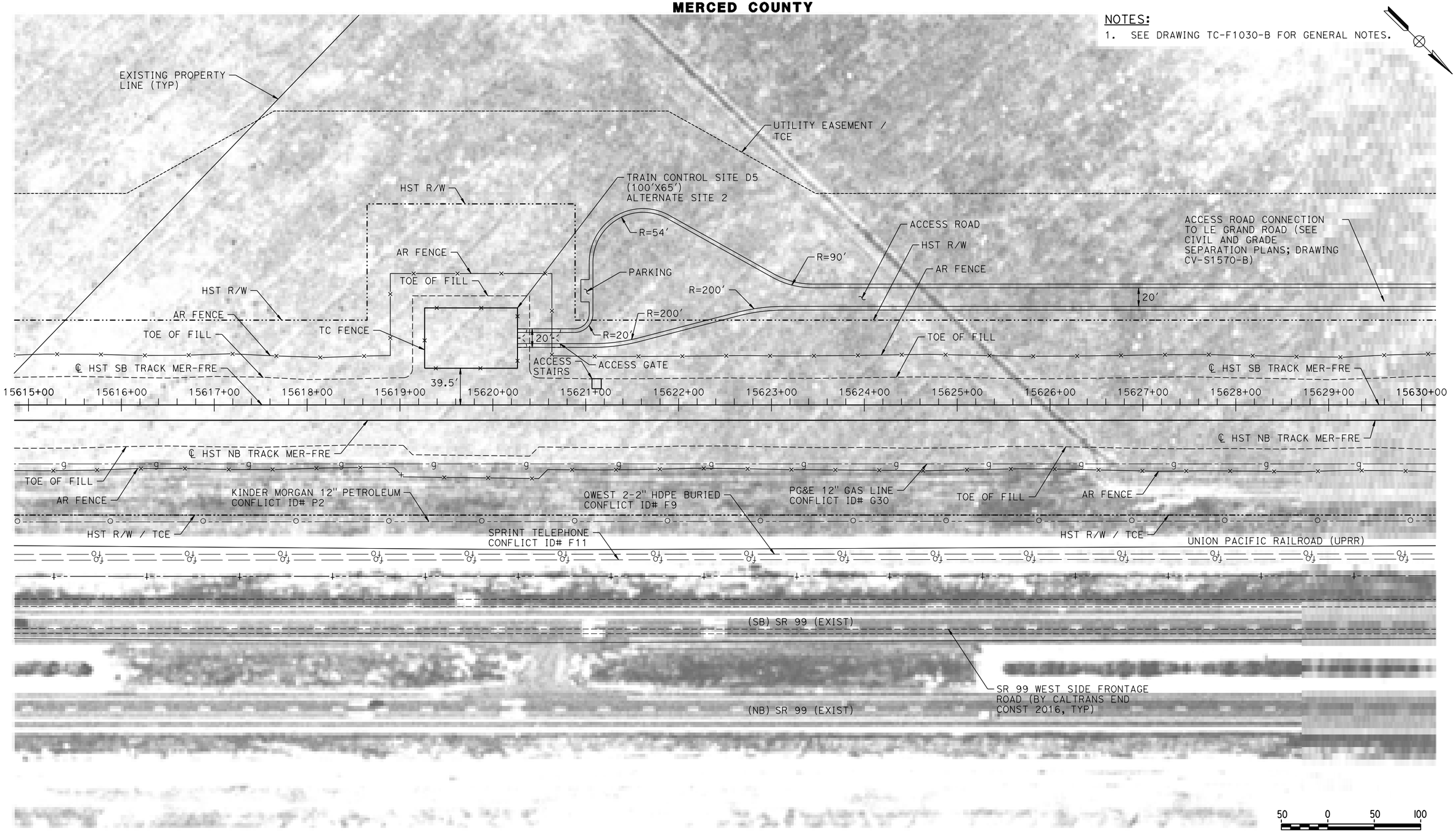
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1560-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1560-B.dgn
08-MAR-2016 11:27
p005133A

MERCED COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



PLAN

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D5 ALTERNATE SITE 2

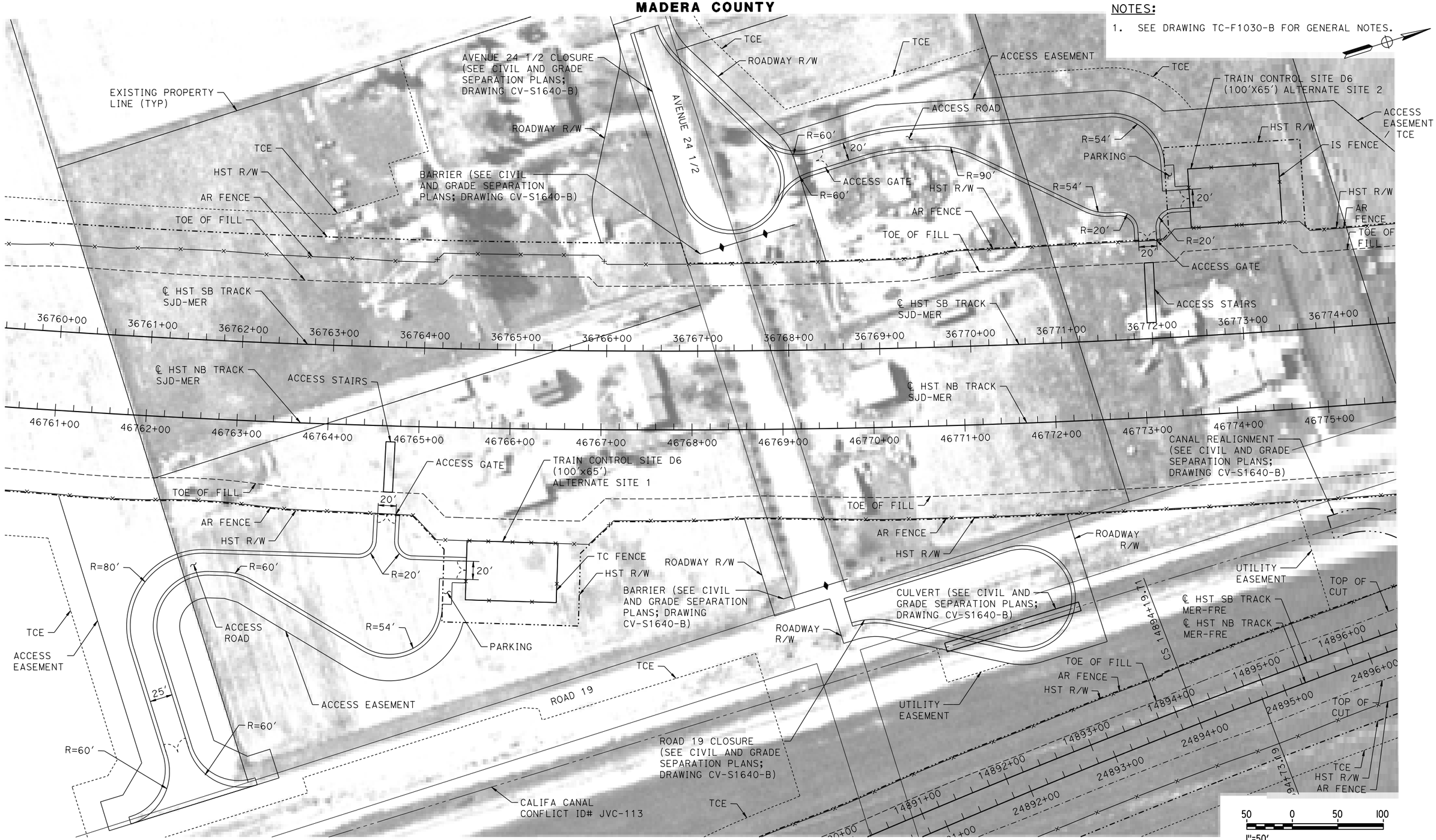
CONTRACT NO. HSR08-05
DRAWING NO. TC-F1570-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1570-B.dgn
08-MAR-2016 11:28
p005133A

MADERA COUNTY

NOTES:

1. SEE DRAWING TC-F1030-B FOR GENERAL NOTES.



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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
TRAIN CONTROL SITE D6 ALTERNATE SITES 1 & 2

CONTRACT NO. HSR08-05
DRAWING NO. TC-F1640-B
SCALE AS SHOWN
SHEET NO.

MF-TC-F1640-B.dgn 18-MAR-2016 09:48 p005133A