

CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

DRAFT

Merced to Fresno Section
Draft EIR-EIS

Volume III: Section A – Alignment Plans

UPRR/SR 99 Alternative with Ave 24 Wye

August 2011



CALIFORNIA
High-Speed Rail Authority



U.S. Department of Transportation
Federal Railroad Administration



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SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
	T0110-A	UPRR/SR 99 ALIGNMENT	AVENUE 24	INDEX OF DRAWINGS	SHEET 1 OF 2
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	T0104-A	UPRR/SR 99 WCDO ALIGNMENT	AVENUE 24	KEY MAP	SHEET 3 OF 6
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	T3007-A			TYPICAL SECTIONS	SHEET 7 OF 17
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	T3018-A	FRESNO SUBSECTION	ALIGNMET F1	CROSS SECTIONS	
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	T3020-A	FRESNO SUBSECTION	ALIGNMET F1	CROSS SECTIONS	
	T3021-A	FRESNO SUBSECTION	ALIGNMET F1	CROSS SECTIONS	
	T3022-A	FRESNO SUBSECTION	ALIGNMET F1	CROSS SECTIONS	
	T3023-A	FRESNO SUBSECTION	ALIGNMET F1	CROSS SECTIONS	
	T3024-A	FRESNO SUBSECTION	ALIGNMET F1	CROSS SECTIONS	
	T3025-A	FRESNO SUBSECTION	ALIGNMET F1	CROSS SECTIONS	
	T2300-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 897+24.31 TO STA 930+00
	T2301-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 930+00 TO STA 985+00
	T2302-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 985+00 TO STA 1040+00
	T2303-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1040+00 TO STA 1095+00
	T2304-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1095+00 TO STA 1150+00
	T2305-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1150+00 TO STA 1205+00
	T2306-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1205+00 TO STA 1260+00
	T2307-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1260+00 TO STA 1315+00
	T2308-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1315+00 TO STA 1370 +00
	T2309-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1370+00 TO STA 1425+00
	T2310-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1425+00 TO STA 1480+00
	T2311-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1480+00 TO STA 1535+00
	T2312-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1535+00 TO STA 1590+00
	T2313-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1590+00 TO STA 1645+00
	T2314-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1645+00 TO STA 1700+00
	T2315-A	UPRR/SR 99 MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1700+00 TO STA 1753+37.60
	T2109-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 753+37.60 TO STA 805+00
	T2110-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 805+00 TO STA 860+00
	T2111-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 860+00 TO STA 915+00
	T2112-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 915+00 TO STA 970+00
	T2113-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 970+00 TO STA 1025+00
	T2114-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1025+00 TO STA 1080+00
	T2115-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1080+00 TO STA 1135+00
	T2116-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1135+00 TO STA 1190+00
	T2117-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1190+00 TO STA 1245+00
	T2118-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1245+00 TO STA 1300+00
	T2119-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1300+00 TO STA 1355+00
	T2120-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1355+00 TO STA 1410+00
	T2121-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1410+00 TO STA 1465+00
	T2122-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1465+00 TO STA 1520+00

SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
	T2123-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1520+00 TO STA 1575+00
	T2124-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1575+00 TO STA 1630+00
	T2125-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1630+00 TO STA 1663+23.96
	T2126-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1713+98 TO STA 1748+00
	T2127-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1748+00 TO STA 1803+00
	T2128-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1803+00 TO STA 1858+00
	T2129-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1858+00 TO STA 1913+00
	T2130-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1913+00 to STA 1968+00
	T2131-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 1968+00 TO STA 2023+00
	T2132-A	UPRR/SR 99 MAIN LINE		PLAN AND PROFILE	STA 2023+00 TO STA 7072+36.81
	T2133-A	HYBRID		PLAN AND PROFILE	STA 100+00 TO STA 128+00
	T2134-A	HYBRID		PLAN AND PROFILE	STA 128+00 TO STA 156+00
	T2135-A	HYBRID		PLAN AND PROFILE	STA 156+00 TO STA 184+00
	T2136-A	HYBRID		PLAN AND PROFILE	STA 184+00 TO STA 212+00
	T2137-A	HYBRID		PLAN AND PROFILE	STA 212+00 TO STA 240+00
	T2138-A	HYBRID		PLAN AND PROFILE	STA 240+00 TO STA 268+00
	T2139-A	HYBRID		PLAN AND PROFILE	STA 268+00 TO STA 282+00
	T2140-A	HYBRID		PLAN AND PROFILE	STA 282+00 TO STA 296+00
	T2141-A	HYBRID		PLAN AND PROFILE	STA 296+00 TO STA 310+00
	T2142-A	FRESNO SUBSECTION - MARIPOSA STATION	ALIGNMET F1	PLAN AND PROFILE	STA 310+00 TO STA 324+00
	T2143-A	FRESNO SUBSECTION - MARIPOSA STATION	ALIGNMET F1	PLAN AND PROFILE	STA 324+00 TO STA 338+00
	T2230-A	UPRR/SR 99 MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 4754+58.75 TO STA 4805+00
	T2231-A	UPRR/SR 99 MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 4805+00 TO STA 4860+00
	T2232-A	UPRR/SR 99 MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 4860+00 TO STA 4905+66.62
	T2205-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 4905+66.62 TO STA 4915+00
	T2206-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 4915+00 TO STA 4970+00
	T2207-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 4970+00 TO STA 5025+00
	T2208-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5025+00 TO STA 5080+00
	T2209-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5080+00 TO STA 5135+00
	T2210-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5135+00 TO STA 5190+00
	T2211-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5190+00 TO STA 5245+00
	T2212-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5245+00 TO STA 5300+00
	T2213-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5300+00 TO STA 5355+00
	T2214-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5355+00 TO STA 5410+00
	T2215-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5410+00 TO STA 5465+00
	T2216-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5465+00 TO STA 5520+00
	T2217-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5520+00 TO STA 5575+00
	T2218-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5575+00 TO STA 5630+00
	T2219-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5630+00 TO STA 5685+00
	T2220-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5685+00 TO STA 5740+00
	T2221-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5740+00 TO STA 5795+00
	T2222-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5795+00 TO STA 5850+00
	T2223-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5850+00 TO STA 5905+00
	T2224-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5905+00 TO STA 5960+00
	T2225-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 5960+00 TO STA 6015+00
	T2226-A	UPRR/SR 99 MERCED CONNECTION		PLAN AND PROFILE	STA 6015+00 TO STA 6066+19.24
	T2320-A	UPRR/SR 99 WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 105+00 TO STA 150+00
	T2321-A	UPRR/SR 99 WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 150+00 TO STA 205+00
	T2322-A	UPRR/SR 99 WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 205+00 TO STA 260+00
	T2323-A	UPRR/SR 99 WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 260+00 TO STA 315+00
	T2324-A	UPRR/SR 99 WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 315+00 TO STA 370+00
	T2325-A	UPRR/SR 99 WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 370+00 TO STA 425+00
	T2326-A	UPRR/SR 99 WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 425+00 TO STA 480+00
	T2327-A	UPRR/SR 99 WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 480+00 TO STA 535+00
	T2328-A	UPRR/SR 99 WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 535+00 TO STA 590+00
	T2329-A	UPRR/SR 99 WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 590+00 TO STA 626+89.44
	T2340-A	UPRR/SR 99 WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 705+00 TO STA 720+00
	T2341-A	UPRR/SR 99 WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 720+00 TO STA 775+00
	T2342-A	UPRR/SR 99 WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 775+00 TO STA 830+00
	T2343-A	UPRR/SR 99 WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 830+00 TO STA 885+00
	T2344-A	UPRR/SR 99 WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 885+00 TO STA 940+00
	T2345-A	UPRR/SR 99 WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 940+00 TO STA 995+00
	T2346-A	UPRR/SR 99 WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 995+00 TO STA 1050+00
	T2347-A	UPRR/SR 99 WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 1050+00 TO STA 1105+00
	T2348-A	UPRR/SR 99 WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 1105+00 TO STA 1160+00
	T2349-A	UPRR/SR 99 WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 1160+00 TO STA 1191+23.92

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY T. WALTZ
CHECKED BY A. SHIELDS
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 ALIGNMENT
AVENUE 24
INDEX OF DRAWINGS
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. T0010-A
SCALE NONE
SHEET NO. OF ###

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SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
	T2360-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5061+66.32 TO STA 5080+00
	T2361-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5080+00 TO STA 5135+00
	T2362-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5135+00 TO STA 5190+00
	T2363-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5190+00 TO STA 5245+00
	T2364-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5245+00 TO STA 5300+00
	T2365-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5300+00 TO STA 5355+00
	T2366-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5355+00 TO STA 5410+00
	T2367-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5410+00 TO STA 5465+00
	T2368-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5465+00 TO STA 5520+00
	T2369-A	UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5520+00 TO STA 5556+91.21
	T2380-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5058+80.31 TO STA 5080+00
	T2381-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5080+00 TO STA 5135+00
	T2382-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5135+00 TO STA 5190+00
	T2383-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5190+00 TO STA 5245+00
	T2384-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5245+00 TO STA 5300+00
	T2385-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5300+00 TO STA 5355+00
	T2386-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5355+00 TO STA 5410+00
	T2387-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5410+00 TO STA 5465+00
	T2388-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5465+00 TO STA 5520+00
	T2389-A	UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 5520+00 TO STA 5556+97.18
	T2400-A	UPRR/SR 99 WCDO - MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1178+97.17 TO STA 1225+00
	T2401-A	UPRR/SR 99 WCDO - MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1225+00 TO STA 1280+00
	T2402-A	UPRR/SR 99 WCDO - MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1280+00 TO STA 1335+00
	T2403-A	UPRR/SR 99 WCDO - MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1335+00 TO STA 1390+00
	T2404-A	UPRR/SR 99 WCDO - MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1390+00 TO STA 1445+00
	T2405-A	UPRR/SR 99 WCDO -MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1445+00 TO STA 1500+00
	T2406-A	UPRR/SR 99 WCDO -MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1500+00 TO STA 1555+00
	T2407-A	UPRR/SR 99 WCDO - MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1555+00 TO STA 1559+10.41
	T2410-A	UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 148+82.51 TO STA 155+00
	T2411-A	UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 155+00 TO STA 210+00
	T2412-A	UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 210+00 TO STA 265+00
	T2413-A	UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 265+00 TO STA 320+00
	T2414-A	UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 320+00 TO STA 375+00
	T2415-A	UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 375+00 TO STA 382+24.68
	T2421-A	UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 524+67 TO STA 580+00
	T2422-A	UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 580+00 TO STA 635+00
	T2423-A	UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 635+00 TO STA 690+00
	T2424-A	UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 690+00 TO STA 738+88.07

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
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RECORD SET
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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 ALIGNMENT
AVENUE 24
INDEX OF DRAWINGS
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. T0011-A
SCALE NONE
SHEET NO. OF ###

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ABBREVIATIONS

ALIGNMENT

HORIZONTAL	
BC	BEGINNING OF CURVE
CS	CURVE TO SPIRAL
EC	END OF CURVE
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CIRCULAR CURVES
PCS	POINT OF CURVE TO SPIRAL
PF	POINT OF FROG
PI	POINT OF INTERSECTION OF TWO TANGENTS
PITO	POINT OF INTERSECTION OF TURNOUT
POC	POINT ON CURVE
POS	POINT ON SPIRAL
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVES
PS	POINT OF SWITCH
PSC	POINT OF SPIRAL TO CURVE
PT	POINT OF TANGENCY
R	RADIUS OF CURVATURE IN FEET
SC	SPIRAL TO CURVE
SPO	POINT OF ORIGIN OF COMPOUND SPIRAL
SS	POINT OF SPIRAL TO SPIRAL
ST	SPIRAL TO TANGENT
TS	TANGENT TO SPIRAL
V	DESIGN VELOCITY IN MILES PER HOUR
VERTICAL	
PVC	POINT OF VERTICAL CURVE (BEGINNING OF CURVE)
PVI	POINT OF VERTICAL INTERSECTION (OF TANGENTS)
PVT	POINT OF VERTICAL TANGENCY (ENDING OF CURVE)
VC	VERTICAL CURVE

MISCELLANEOUS

BEG	BEGIN
BLVD	BOULEVARD
CL	CENTER LINE
CLR	CLEAR
COL	COLUMN
DWG	DRAWING
EQ	EQUATION
EXIST(E)	EXISTING
IN	INCH
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NB	NORTH BOUND
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
O/H OH	OVER HEAD
PG&E	PACIFIC GAS & ELECTRIC
PGL	PROFILE GRADE LINE
RR	RAILROAD
RD	ROAD
R/W ROW	RIGHT OF WAY
RT	RIGHT
SS	SANITARY SEWER
SHT	SHEET
ST	STREET
STD	STANDARD
SD	STORM DRAIN
STRUCT	STRUCTURE
T	TELEPHONE
	(OH) OVERHEAD LINE
	(UG) UNDERGROUND LINE
TOR	TOP OF RAIL
TK	TRACK
TO	TURNOUT
TYP	TYPICAL
TBD	TO BE DETERMINED
TF	TELECOMMUNICATIONS FIBER
	OPTIC
V VERT	VERTICAL
W	WATER, WEST

SYMBOLS

	MATCH LINE
	HST TRACK
	PROPOSED HST RIGHT-OF-WAY
	FREIGHT/PASSENGER TRACK - EXISTING
	EXISTING RIGHT-OF-WAY
	EXISTING BRIDGE FEATURES
	RETAINING WALLS
	ORIGINAL GROUND
	GAS LINE (16")
	COMMUNICATION LINE
	WATER LINE
	FIBER OPTIC LINE
	ELECTRICAL LINE
	ELECTRICAL TOWER
	SEWER LINE
	STORM DRAIN LINE
	FUEL LINE
	TELEPHONE LINE
	PETROLEUM LINE (12")
	OVERHEAD
	NORTH ARRROW
	PVI
	POTENTIAL NOISE BARRIER

NOTES:

- EXISTING ROADS TO BE GRADE SEPARATED OVER THE HIGH SPEED TRAIN (HST) RIGHT OF WAY ARE INDICATED IN THE ALIGNMENT PROFILE. ALL OTHER ROADS CROSSING THE PROPOSED HST TRACKS WILL BE CLOSED OR RELOCATED. SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.
- SEE STRUCTURE PLANS FOR LIMITS AND DETAILS OF VIADUCTS, STREAM CROSSINGS, RETAINING WALLS AND OTHER HST STRUCTURES.
- SEE ROADWAY PLANS FOR ROADWAY RELOCATIONS, GRADE SEPARATIONS, AND MODIFICATIONS TO STATE HIGHWAY FACILITIES.
- UTILITIES INDICATED ON THE PLANS ARE FOR REFERENCE ONLY. SEE "UTILITIES CONFLICT MEMO" FOR ADDITIONAL INFORMATION AND PROPOSED RELOCATION CONCEPTS.
- ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPORVEMENTS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY B. CHAN
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GENERAL

ABBREVIATIONS, SYMBOLS AND NOTES

CONTRACT NO. HSR06-007
DRAWING NO. T0100-A
SCALE NO SCALE
SHEET NO. #### OF ###

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END CONSTRUCTION
PHASE 1 6066+19.24
MERCED CONNECTION

MATCH LINE
SEE T102-A

PS 626+89.44 WYE NB
CONNECTION AVE 24=
5522+83.53
MERCED CONNECTION

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. SHIELDS
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

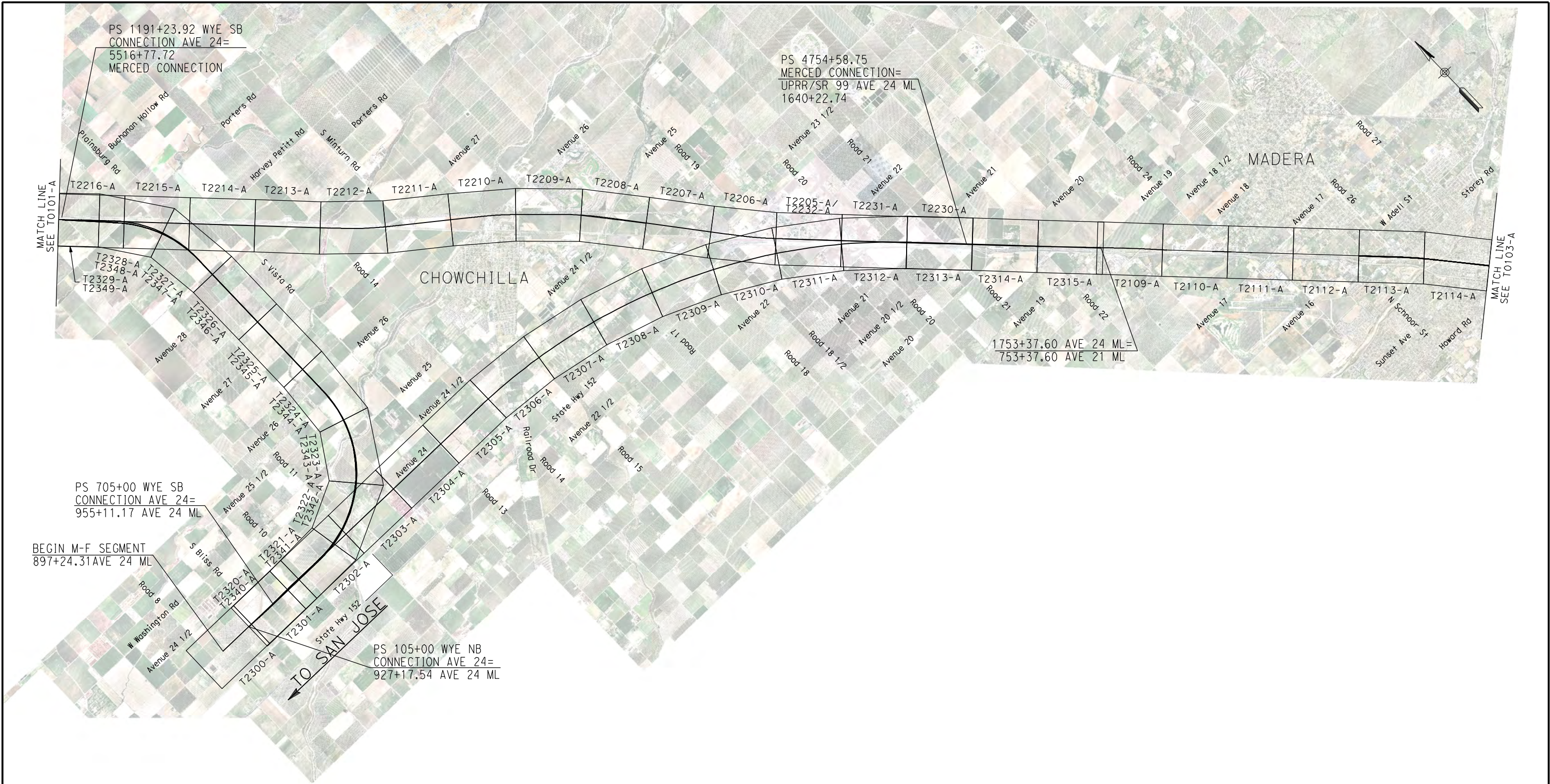


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

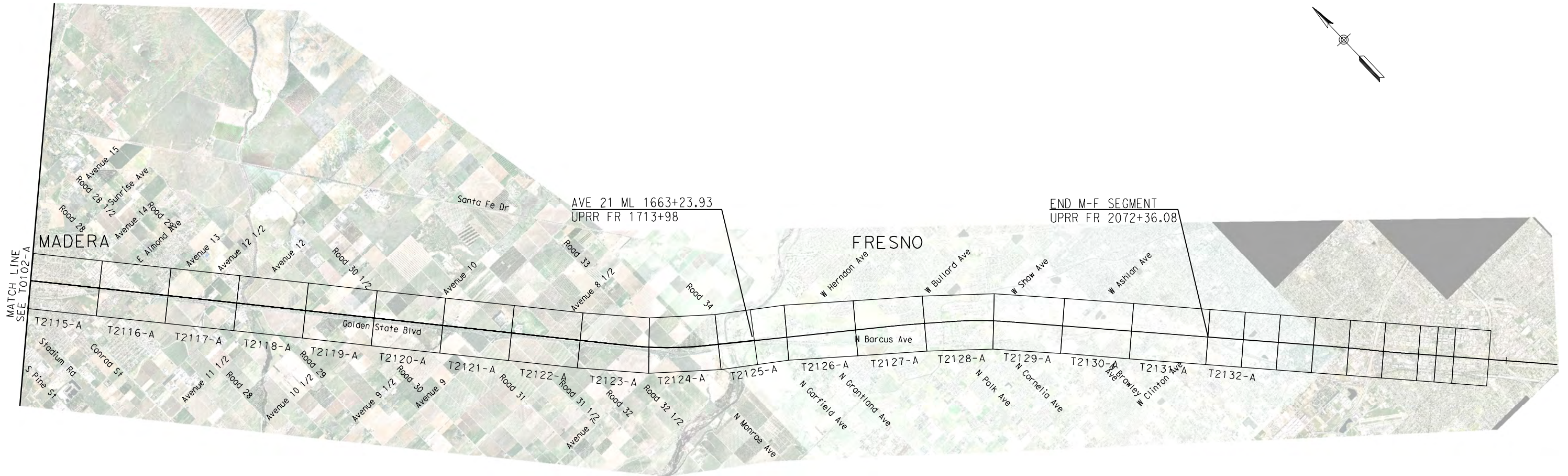
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 ALIGNMENT
AVENUE 24
KEY MAP
SHEET 1 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
T0101-A
SCALE
NO SCALE
SHEET NO.
OF

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sullivan



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. SHIELDS
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 ALIGNMENT
AVENUE 24
KEY MAP
SHEET 3 OF 6

CONTRACT NO. HSR06-007
DRAWING NO. T0103-A
SCALE NO SCALE
SHEET NO. ### OF ###

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sullivanh



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. SHIELDS
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



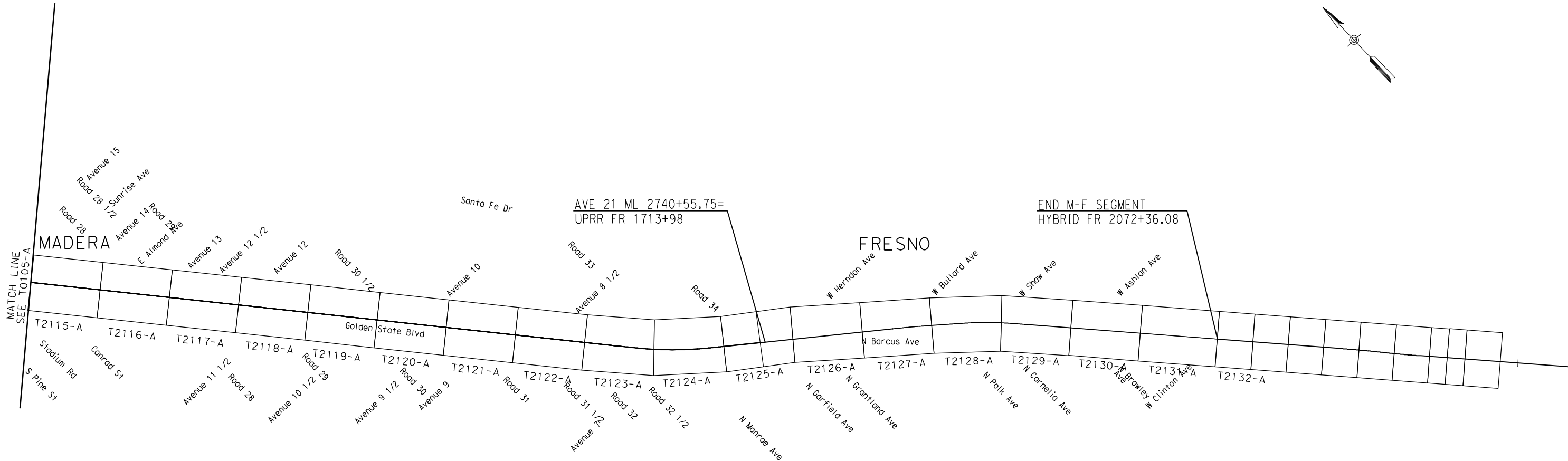
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO ALIGNMENT
AVENUE 24
KEY MAP
SHEET 4 OF 6

CONTRACT NO. HSR06-007
DRAWING NO. T0104-A
SCALE NO SCALE
SHEET NO. ### OF ###

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sullivanh



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. SHIELDS
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCO ALIGNMENT
AVENUE 24
KEY MAP
SHEET 6 OF 6

CONTRACT NO. HSR06-007
DRAWING NO. T0106-A
SCALE NO SCALE
SHEET NO. ### OF ###

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TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR MAIN LINE AVE 24 SB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR225	250	50578.5	3.00	1.94	1000	1188+89.23	1599+10.41	T2305-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR MAIN LINE SB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR202	250	43000	4.00	1.81	1200	994+31.92	1039+69.06	T2113-A
UPRR203	250	28000	6.00	2.93	2000	1549+79.74	1629+23.79	T2123-A
UPRR206	250	42995.5	3.25	2.56	1199.87	1702+48.14	1736+38.82	T2125-A
UPRR207	250	43000	3.25	2.56	1200	1852+76.45	1927+63.38	T2129-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR MERCED CONNECTION SB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR109	150	32000			220	4757+94.64	4796+82.87	T2230-A
UPRR110	150	23992.86	1.25	2.50	220	4796+82.87	4779+61.82	T2230-A
UPRR111	250	28016.5	6.00	2.93	2000	4907+26.62	4936+59.33	T2205-A
UPRR112	250	28000	6.00	2.93	2000	5050+05.99	5108+56.20	T2208-A
UPRR113	250	28000	6.00	2.93	2000	5124+54.02	5174+08.99	T2209-A
UPRR114	250	28016.5	6.00	2.64	2000	5232+60.88	5291+48.79	T2211-A
UPRR115	150	10000	6.00	3.00	1200	5981+82.99	6030+04.80	T2225-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WYE-SB CONNECTION AVE 24								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR128	150	32000			220	705+00	715+13.59	T2340-A
UPRR129	150	24058.11	1.25	2.50	220	715+13.59	723+64.01	T2341-A
UPRR130	150	10000	6.00	3.00	1200	752+83.46	921+72.46	T2341-A
UPRR131	150	10100	6.00	2.91	1200	1062+85.33	1149+28.91	T2347-A
UPRR132	150	32000			220	1181+72.58	1191+23.92	T2349-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WCDO/HYBRID CONNECTION SB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR238	150	32000			220	5058+80.31	5070+68.54	T2380-A
UPRR239	150	24000	1.25	2.50	220	5070+68.54	5080+47.49	T2380-A
UPRR240	145	10000	5.50	2.91	1000	5085+75.50	5253+02.51	T2381-A
UPRR241	250	28000	6.00	2.93	2000	5318+28.63	5556+97.18	T2385-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WCDO/HYBRID MAIN LINE AVE 24 SB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR135	250	28000	6.00	2.92	2000	1268+26.03	1509+81.55	T2401-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WYE-SB CONNECTION AVE 24								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR243	150	32000			220	148+82.51	161+03.62	T2410-A
UPRR244	150	20208.38	1.25	2.50	220	161+03.62	168+73.62	T2411-A
UPRR245	150	10000	6.00	3.00	1200	179+43.82	348+32.82	T2411-A
UPRR246	150	24000	1.25	2.50	220	363+61.57	372+10.33	T2414-A
UPRR247	150	32000			220	372+10.33	382+24.68	T2414-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR MAIN LINE AVE 24 NB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR125	250	50595	3.00	1.94	1000	144+45.26	554+79.66	T2305-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR MAIN LINE NB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR102	250	43016.5	4.00	1.81	1200	994+31.92	1039+69.06	T2113-A
UPRR103	250	27983.5	6.00	2.93	2000	1549+79.74	1629+23.79	T2123-A
UPRR106	250	43013	3.25	2.56	1200	1702+48.14	1736+38.82	T2209-A
UPRR107	250	43016.5	3.25	2.56	1200	1852+76.45	1927+63.38	T2225-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR MERCED CONNECTION NB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR109	150	32000			220	4757+94.64	4796+82.87	T2230-A
UPRR110	150	23992.86	1.25	2.50	220	4796+82.87	4779+61.82	T2230-A
UPRR211	250	28000	6.00	2.93	2000	4907+26.62	4936+59.33	T2205-A
UPRR212	250	28016.5	6.00	2.93	2000	5050+05.99	5108+56.20	T2208-A
UPRR213	250	28016.5	6.00	2.93	2000	5124+54.02	5174+08.99	T2209-A
UPRR214	250	28000	6.00	2.93	2000	5232+60.88	5291+48.79	T2211-A
UPRR215	150	10016.5	6.00	3.00	1200	5981+82.99	6030+04.80	T2225-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WYE - NB CONNECTION AVE 21								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR228	150	32000			220	105+00.00	116+88.27	T2320-A
UPRR229	150	23987.95	1.25	2.50	220	116+88.27	126+67.10	T2320-A
UPRR230	150	10000	6.00	3.00	1200	180+94.22	349+83.22	T2321-A
UPRR231	145	10000	5.50	2.91	1000	494+11.92	582+22.03	T2327-A
UPRR232	150	24020.25	1.25	2.50	220	605+22.57	615+02.00	T2329-A
UPRR233	150	32000			220	615+02.00	626+89.44	T2329-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WCDO/HYBRID CONNECTION NB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR138	150	32000			220	5061+66.32	5070+80.46	T2360-A
UPRR139	150	24000	1.25	2.50	220	5071.80.46	5086+34.11	T2360-A
UPRR140	145	10000	5.50	2.91	1000	5086+34.11	5253+61.04	T2361-A
UPRR141	250	28016.5	6.00	2.93	2000	5318+09.77	5556+91.21	T2365-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WCDO/HYBRID MAIN LINE AVE 24 NB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR235	250	28016.5	6.00	2.92	2000	1268+26.03	1509+81.55	T2401-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WYE-NB CONNECTION AVE 24								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
UPRR143	150	32000			220	524+67	534+80.96	T2421-A
UPRR144	150	24028.48	1.25	2.50	220	534+80.96	543+30.17	T2421-A
UPRR145	145	10000	5.50	2.91	1000	548+58.65	715+47.65	T2421-A
UPRR146	150	24000	1.25	2.50	220	721+33.73	728+73.02	T2424-A
UPRR147	150	32000			220	728+73.02	738+88.07	T2424-A

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY T. WALTZ
CHECKED BY A. SHIELDS
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 ALIGNMENT
AVENUE 24
TRACK GEOMETRY DATA
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. T0151-A
SCALE NO SCALE
SHEET NO. ### OF ###

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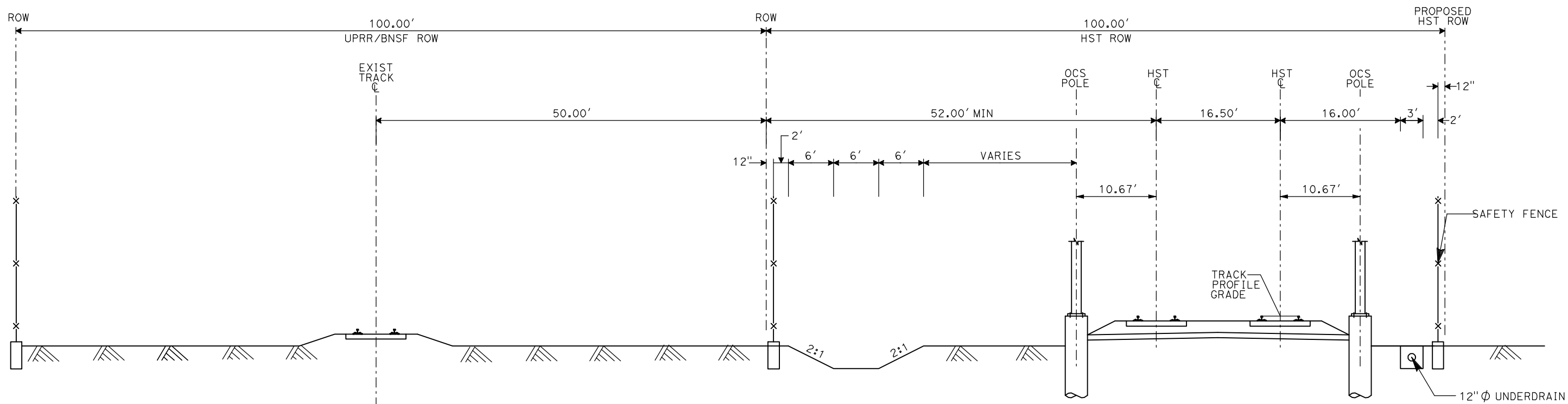
ShieldsA

ALTERNATIVE HYBRID AVENUE 24			
ALIGNMENT	BEGIN STATION	END STATION	SECTION
HYBRID 24	892+90	926+80	AG2
	926+80	1020+00	WYE1
	1020+00	1185+00	AG2
	1185+00	1230+00	WYE1
	1230+00	1360+00	AG2
	1360+00	1375+00	RF2
	1375+00	1435+00	EL1
	1435+00	1443+00	RF2
	1443+00	2681+00	AG2
	2681+00	2695+00	RF2
	2695+00	2731+50	EL1
	2731+50	2740+55	EL5
HYBRID-FR	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
	1767+00	1788+84	RF3
	1788+84	1843+35	AG6
UPRR/SR 99 WCD0/HYBRID MC SB	5061+66	5015+00	WYE1
	5015+00	5235+00	AG4
	5235+00	5285+00	WYE 1
	5288+00	5556+91	AG2
UPRR/SR 99 WCD0/HYBRID MC NB	5058+80	5110+00	WYE1
	5110+00	5121+00	EL2
	5121+00	5127+00	RF2
	5127+00	5235+00	AG4
	5235+00	5285+00	WYE1
UPRR/SR 99-21MC	5285+00	5597+00	AG2
	5556+98	5910+00	AG1
	5910+00	5916+50	TR2
	5916+50	5917+60	CC1
	5917+60	5925+00	TR2
	5925+00	5977+70	AG1
	5977+70	5989+20	TR2
	5989+20	5990+20	CC1
	5990+20	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
	6042+90	6052+50	TR1
	6052+50	6066+20	AG5
UPRR/SR 99 WCD0/HYBRID WC NB	148+82	205+00	WYE1
	205+00	211+00	EL2
	211+00	219+00	RF2
	219+00	313+50	AG4
	313+50	320+00	RF2
	320+00	330+00	EL2
	330+00	382+25	WYE1
UPRR/SR 99 WCD0/HYBRID WC SB	524+67	570+00	WYE1
	570+00	695+00	AG4
	695+00	738+88	WYE1

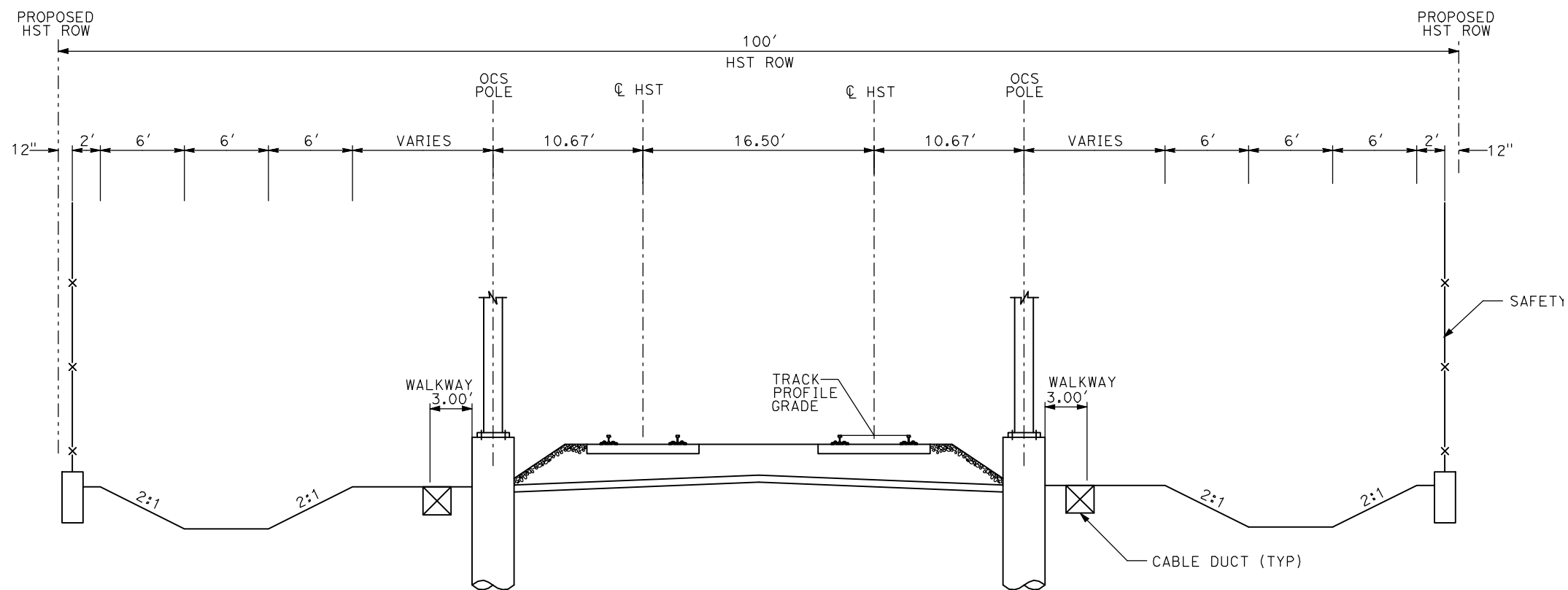
ALTERNATIVE HYBRID AVENUE 21			
ALIGNMENT	BEGIN STATION	END STATION	SECTION
HYBRID 21	892+90	330+00	AG2
	330+00	430+00	WYE1
	430+00	565+00	AG2
	565+00	580+00	RF2
	580+00	630+00	EL1
	630+00	640+00	RF2
	640+00	680+00	WYE1
	680+00	868+87=	AG2
	1865+00	2681+00	AG2
	2681+00	2695+00	RF2
	2695+00	2731+50	EL1
	2731+50	2740+55	EL5
HYBRID-FR	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
	1767+00	1788+84	RF3
	1788+84	1843+35	AG6
HYBRID MC SB - 21	1843+35	1893+95	RF3
	1893+95	1958+00	AG6
	1958+00	2072+36	AG7
HYBRID MC NB - 21	200+20	250+00	WYE1
	250+00	290+00	EL2
	290+00	377+99	EL1
UPRR/SR 99-21MC	500+00	550+00	WYE1
	550+00	590+00	EL2
	590+00	677+40	EL1
UPRR/SR 99-21WC NB	4907+27	4975+00	EL1
	4975+00	5045+00	WYE2
	5045+00	5385+00	EL1
	5385+00	5425+00	RF2
	5425+00	5910+00	AG1
	5910+00	5915+50	TR2
	5915+50	5916+60	CC1
	5916+60	5924+00	TR2
	5924+00	5977+70	AG1
	5977+70	5989+30	TR2
	5989+30	5990+40	CC1
	5990+40	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
UPRR/SR 99-21WC SB	6042+90	6052+50	TR1
	6052+50	6066+20	AG5
	505+00	610+00	WYE1
	610+00	619+50	EL2
	619+50	628+35	RF1
	628+35	714+80	AG4
	714+80	724+20	RF1
UPRR/SR 99-21WC SB	724+20	780+00	EL2
	780+00	846+94	WYE2
UPRR/SR 99-21WC SB	105+00	180+00	WYE1
	180+00	298+80	AG4
	298+80	313+21	RF1
	313+21	340+00	EL2
	340+00	397+52	WYE2

ALTERNATIVE BNSF AVENUE 21			
ALIGNMENT	BEGIN STATION	END STATION	SECTION
BNSF-21ML	267+41	562+00	AG2
	562+00	582+61	RF2
	582+61	634+76	EL1
	634+76	665+80	RF2
	665+80	859+40	AG2
	859+40	881+05	RF2
	881+05	925+00	EL1
	925+00	985+00	WYE1
	985+00	1042+75	EL1
	1042+75	1060+00	RF2
	1060+00	1305+00	AG1
	1305+00	1685+00	AG2
	1685+00	1696+00	RF2
	1667+59	1731+50	EL1
	1731+50	1741+00	EL5
BNSF-FR			
	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
	1767+00	1788+84	RF3
	1788+84	1843+35	AG6
	1843+35	1893+95	RF3
BNSF-21WC NB	1893+95	1958+00	AG6
	1958+00	2072+36	AG7
	105+85	205+00	WYE2
	205+00	220+66	EL2
BNSF-21WC SB	220+66	230+00	RF1
	230+00	357+00	AG4
	357+00	371+02	RF1
	371+02	383+00	EL2
	383+00	474+09	WYE1
BNSF-21WC SB			
	500+00	550+00	WYE2
	550+00	720+00	AG4
BNSF-MC	720+00	765+39	WYE1
	4302+03	4345+02	EL2
BNSF-MC	4345+02	4351+00	RF1
	4351+00	4405+00	WYE1
	4405+00	5296+45	AG1
	5269+45	5266+88	RF2
	5266+88	5352+88	EL3
	5352+88	5371+50	RF2
	5371+50	5850+85	AG1
	5850+85	5866+57	RF2
	5866+57	5960+00	EL1
	5960+00	5967+00	RF2
	5967+00	5977+70	AG1
	5977+70	5989+20	TR2
	5989+20	5990+20	CC1
	5990+20	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
	6042+90	6052+50	TR1
	6052+50	6066+20	AG5

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AG1- DOUBLE TRACK AT GRADE ADJACENT TO UPRR/BNSF



AG2 - DOUBLE TRACK AT GRADE

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Sacramento, CA 95811
CH2M HILL

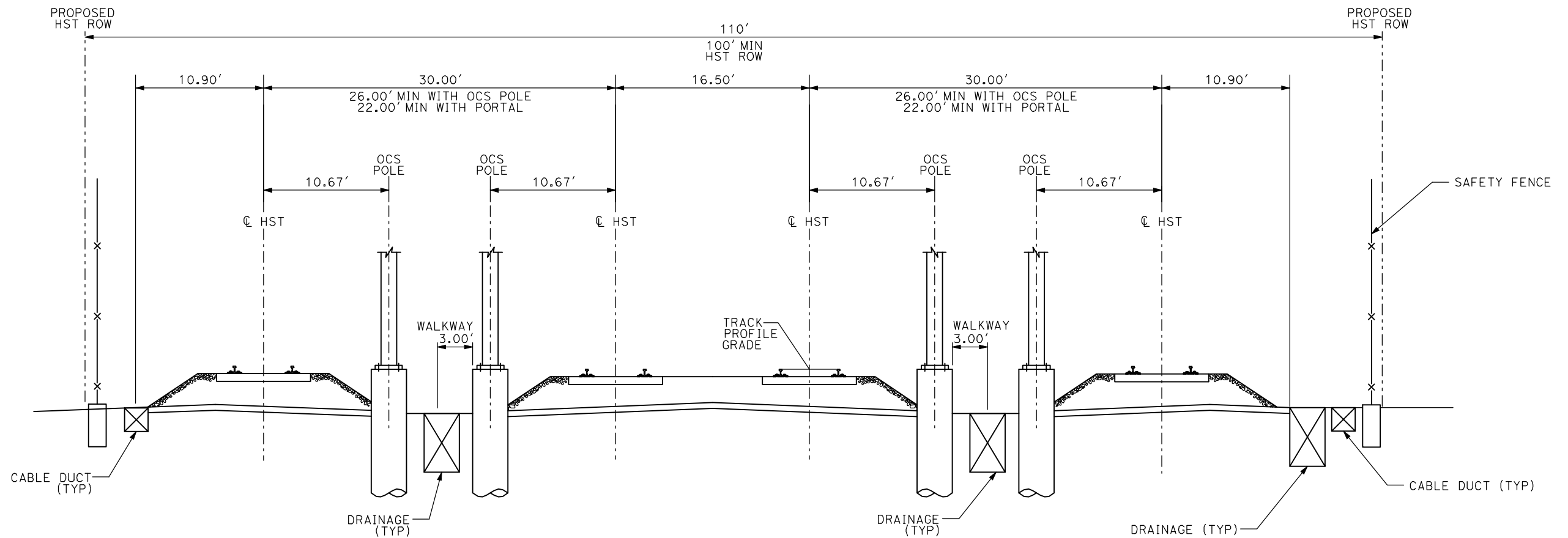


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

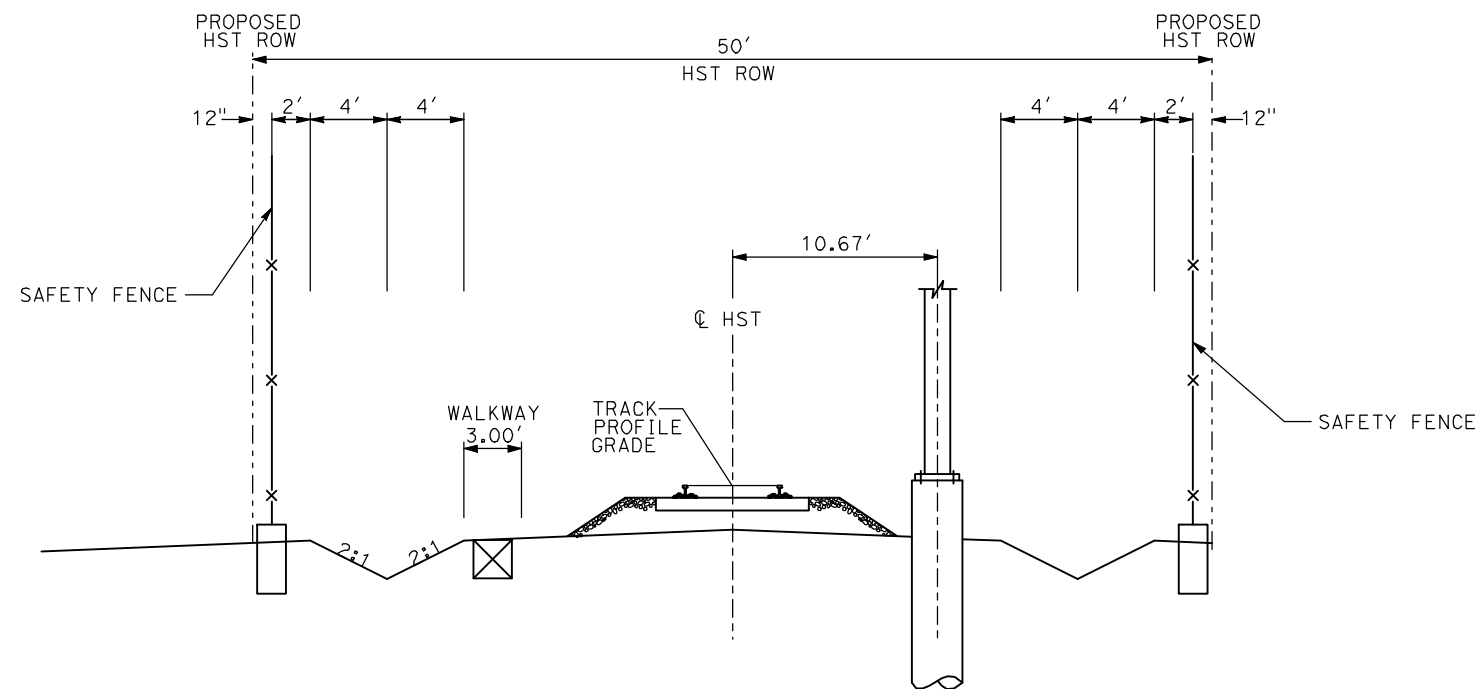
TYPICAL SECTIONS
SHEET 1 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3001-A
SCALE
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SHEET NO.
OF ###

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ShieldsA



AG3 - 4 TRACK AT GRADE



AG4 - SINGLE TRACK AT GRADE

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

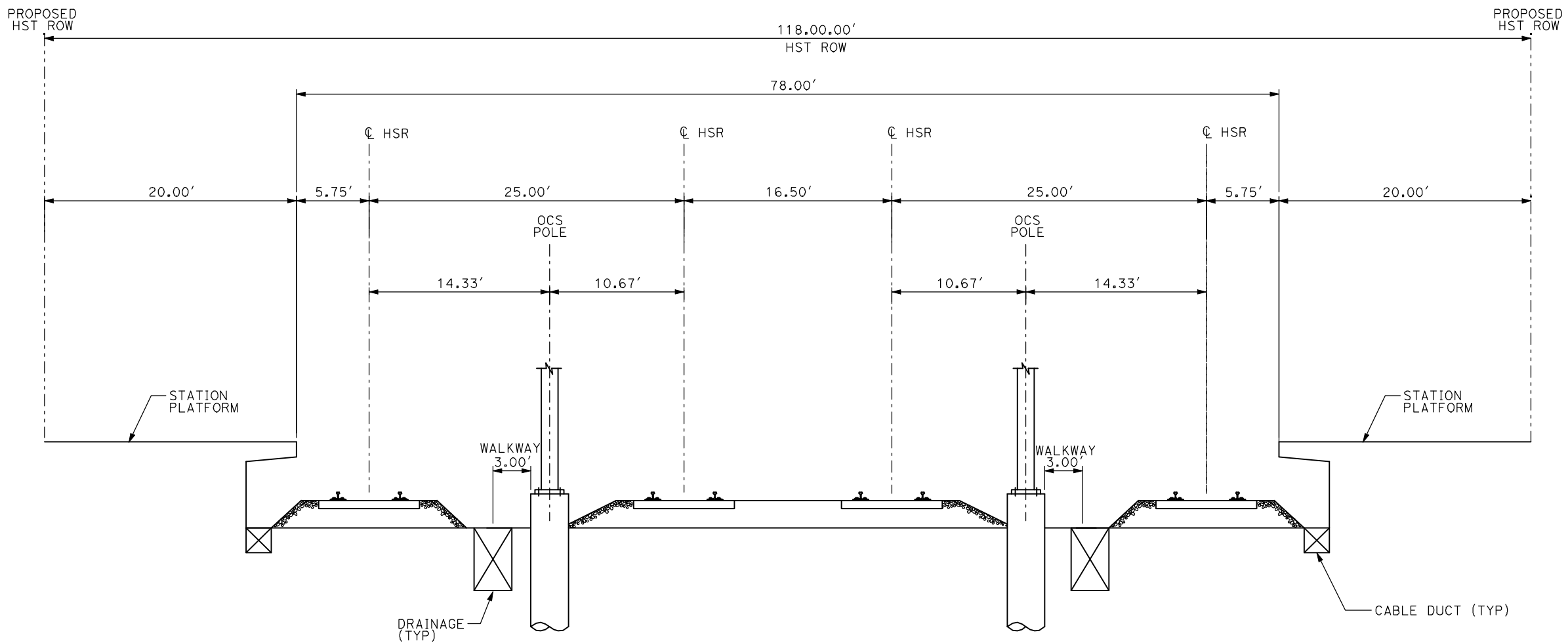
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 2 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3002-A
SCALE
NO SCALE
SHEET NO.
OF ###



AG5 - 4 TRACK AT GRADE MERCED STATION

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

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ShieldsA

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY C. VALADAO
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

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SUBMITTAL**

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CONSTRUCTION**

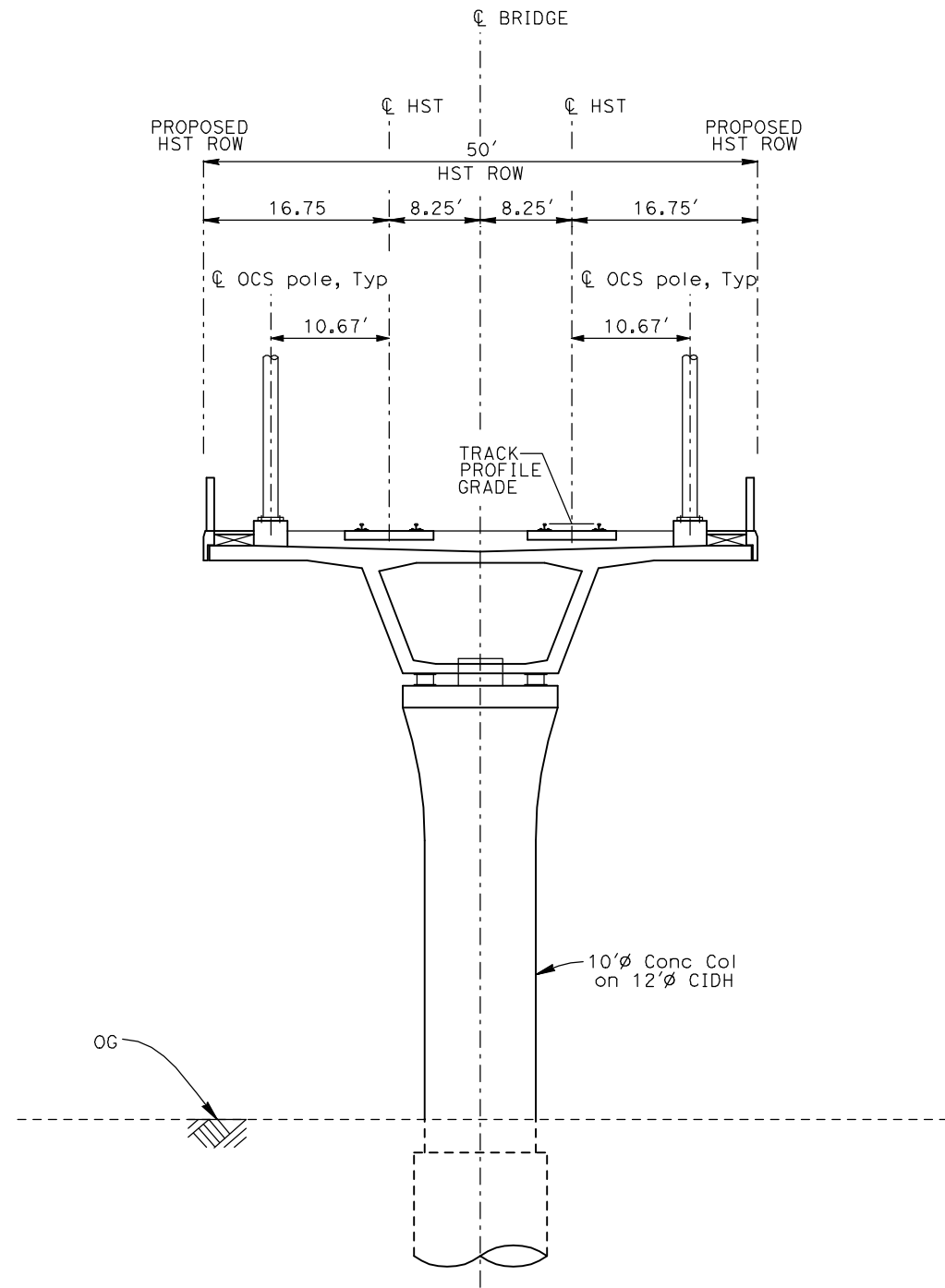


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

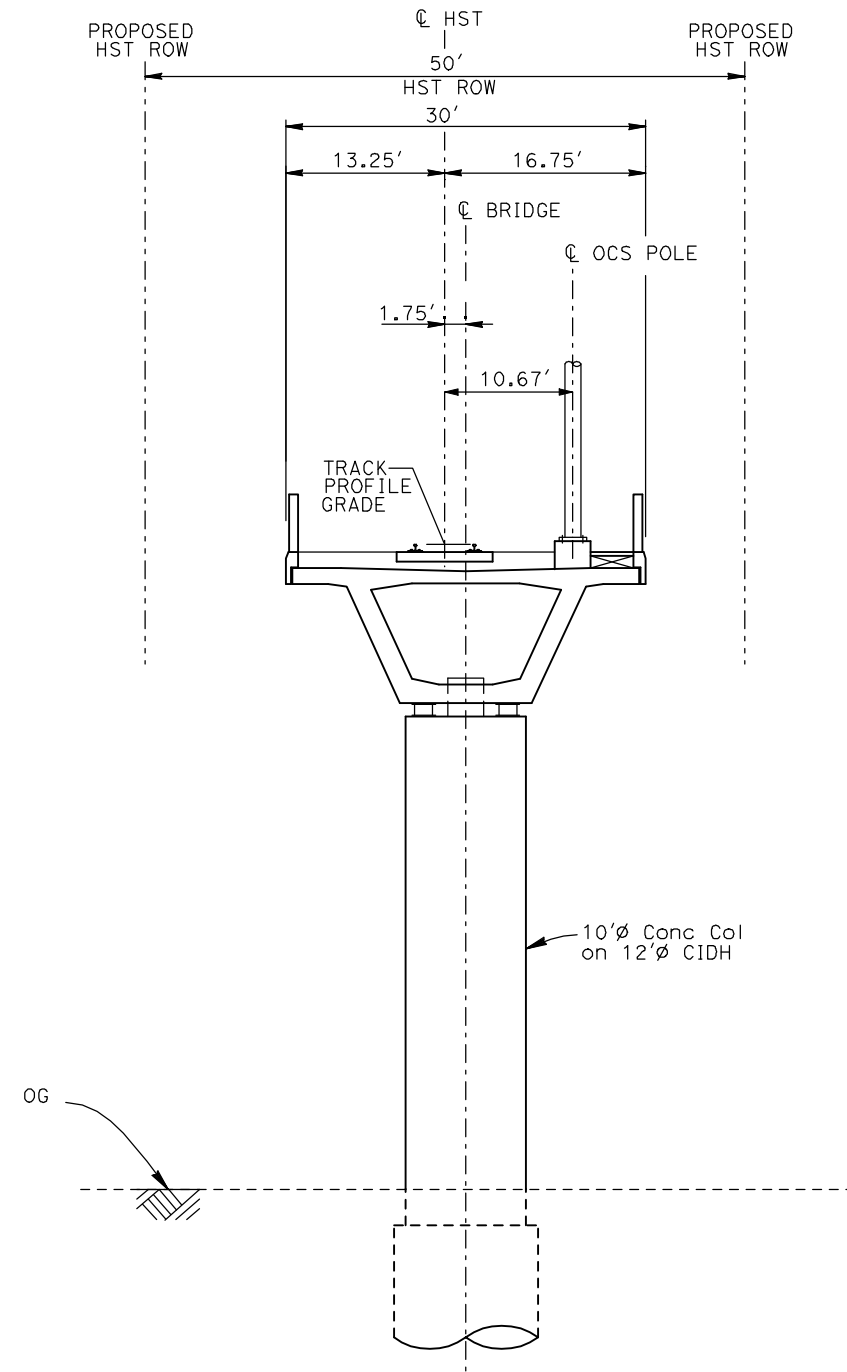
TYPICAL SECTIONS
SHEET 3 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3003-A
SCALE NO SCALE
SHEET NO. OF ###

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ShieldsA



EL1 - DOUBLE TRACK ELEVATED



EL2 - SINGLE TRACK ELEVATED

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. BACK-TO-BACK CANTILEVERS ON A SINGLE POLE MAY BE PERMITTED AT PASSENGER STATIONS.
 3. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
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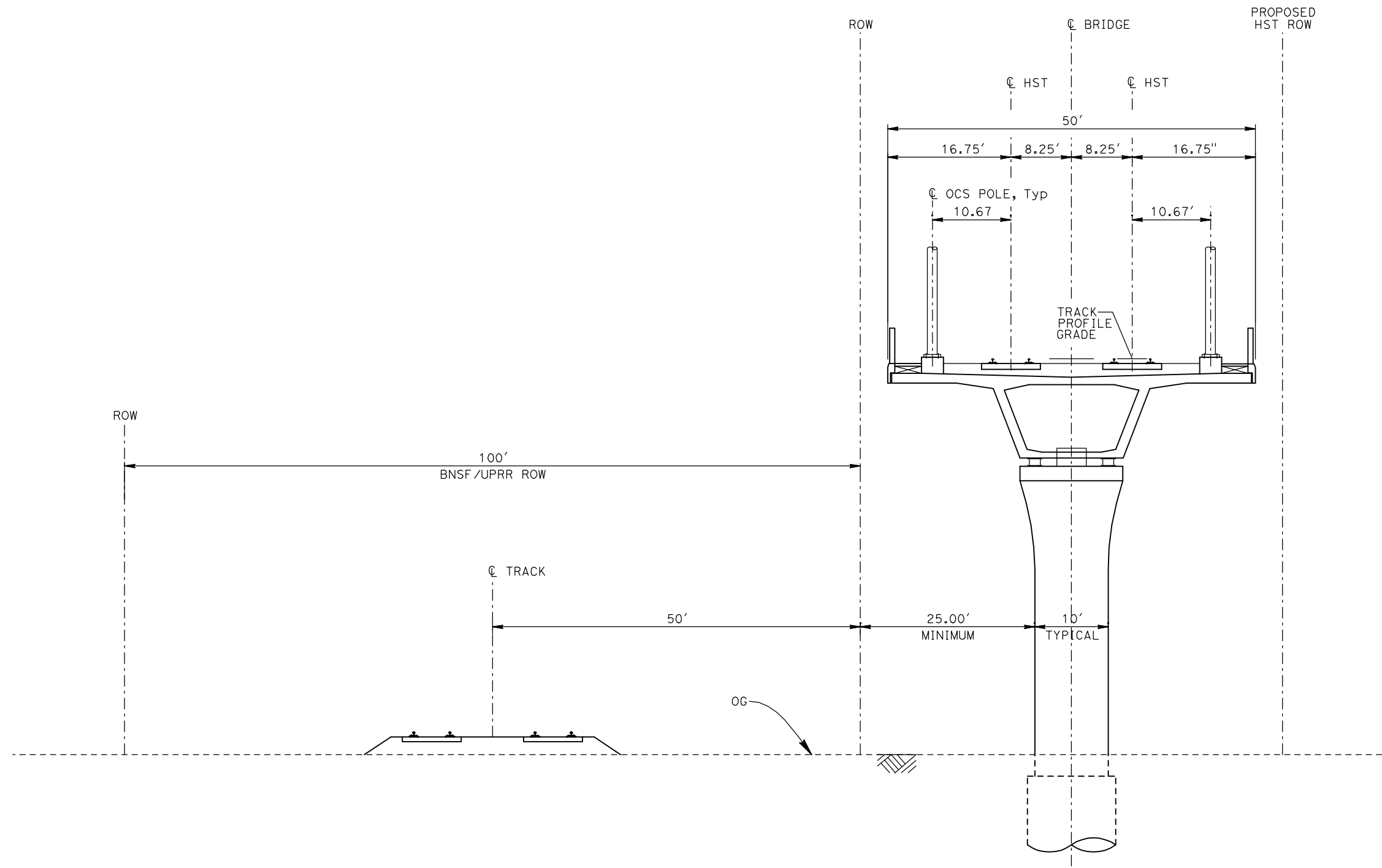
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 4 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3004-A
SCALE
NO SCALE
SHEET NO.
OF ###

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ShieldsA



EL3 - DOUBLE TRACK ELEVATED ADJACENT TO UPRR/BNSF

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

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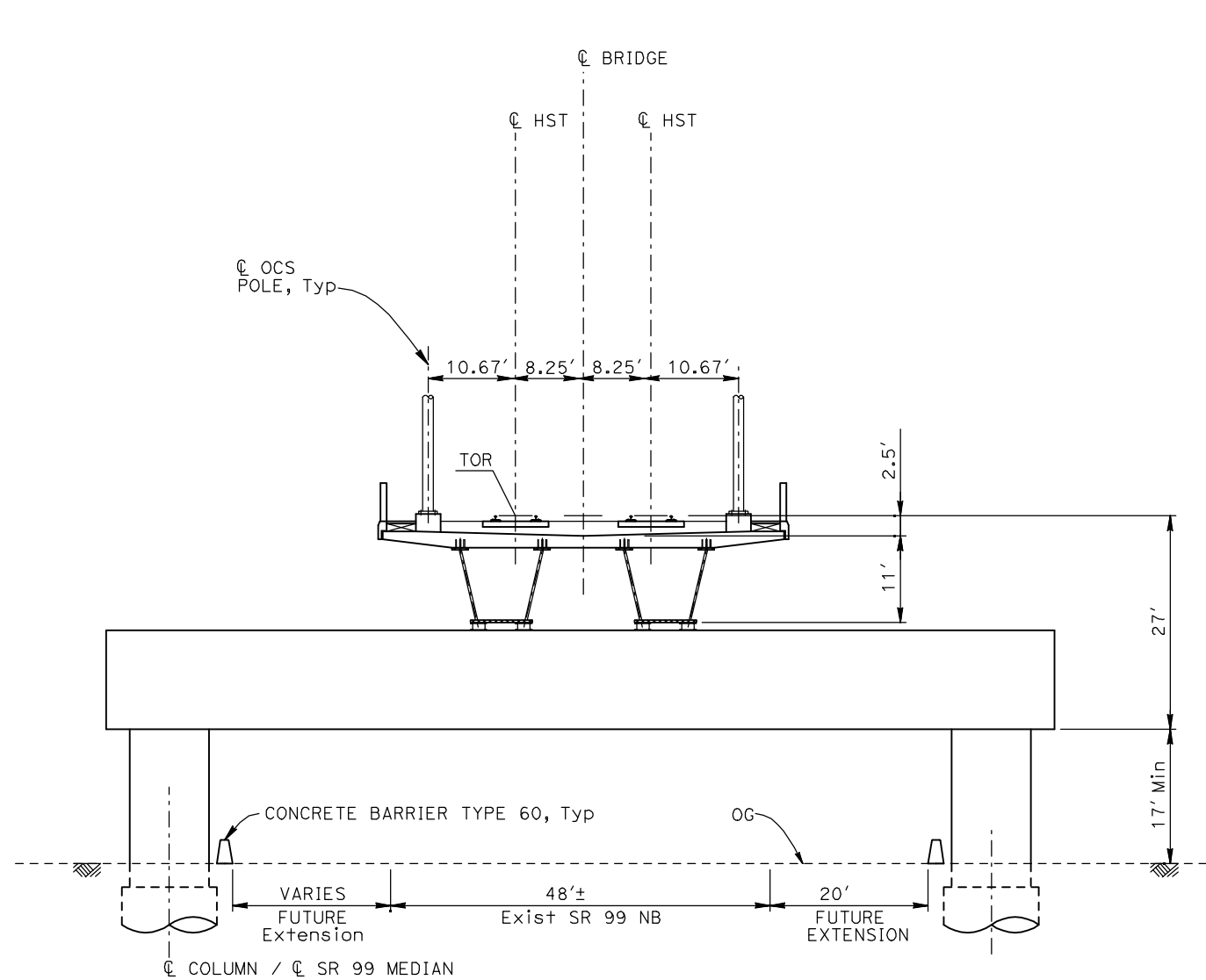
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 5 OF 17

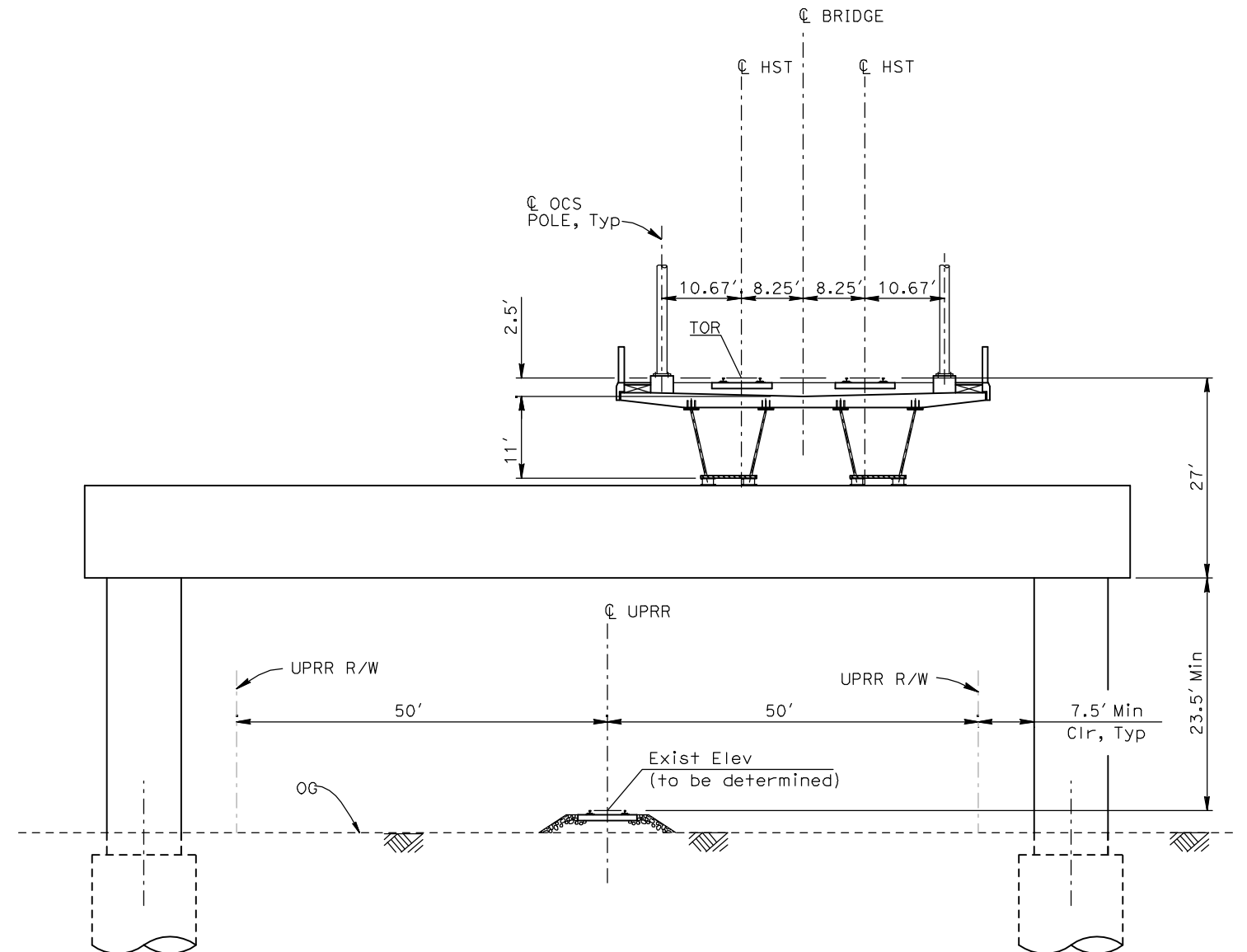
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T3005-A
SCALE
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OF ###

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ShieldsA



EL4 - DOUBLE TRACK ELEVATED CROSSING SR99



EL5 - DOUBLE TRACK ELEVATED CROSSING UPRR/BNSF

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
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**NOT FOR
CONSTRUCTION**

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CH2M HILL



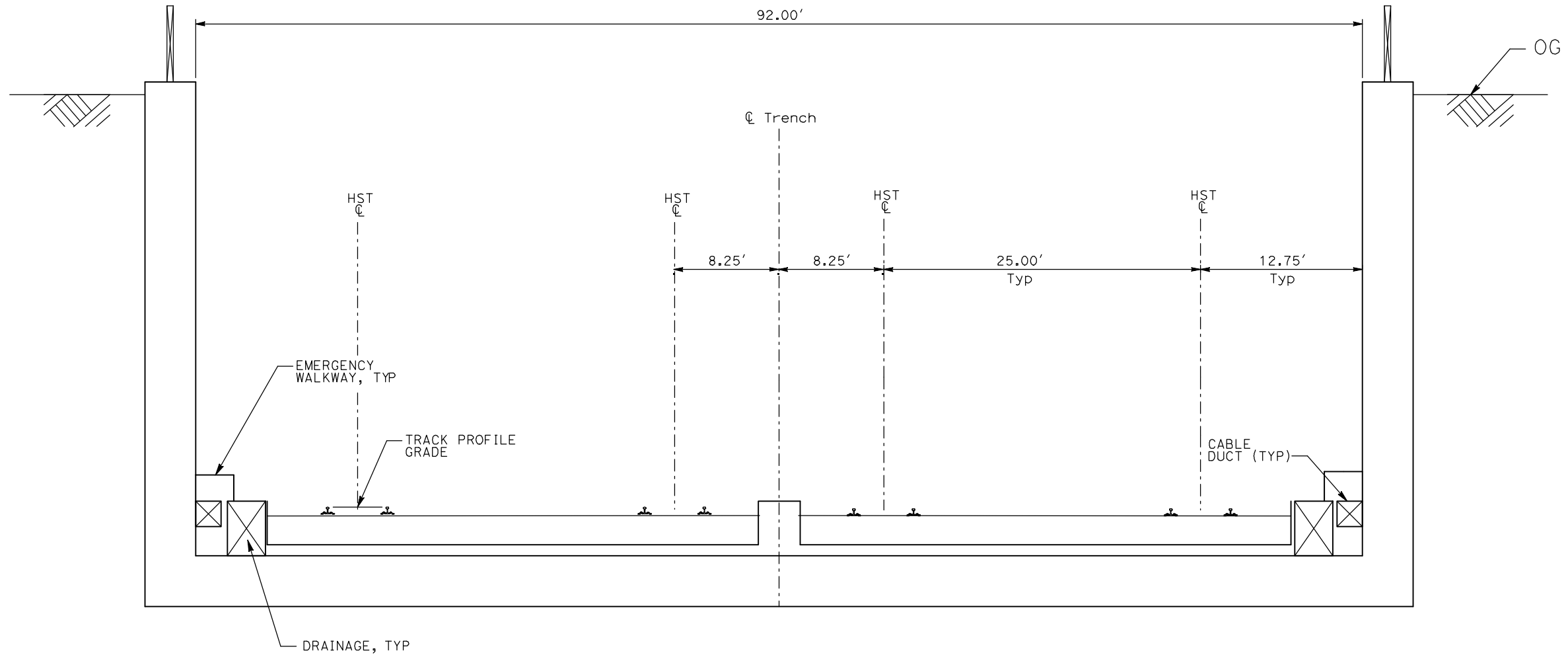
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 6 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3006-A
SCALE
NO SCALE
SHEET NO.
OF ###

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ShieldsA



TR1 - 4 TRACK TRENCH STATION APPROACH

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
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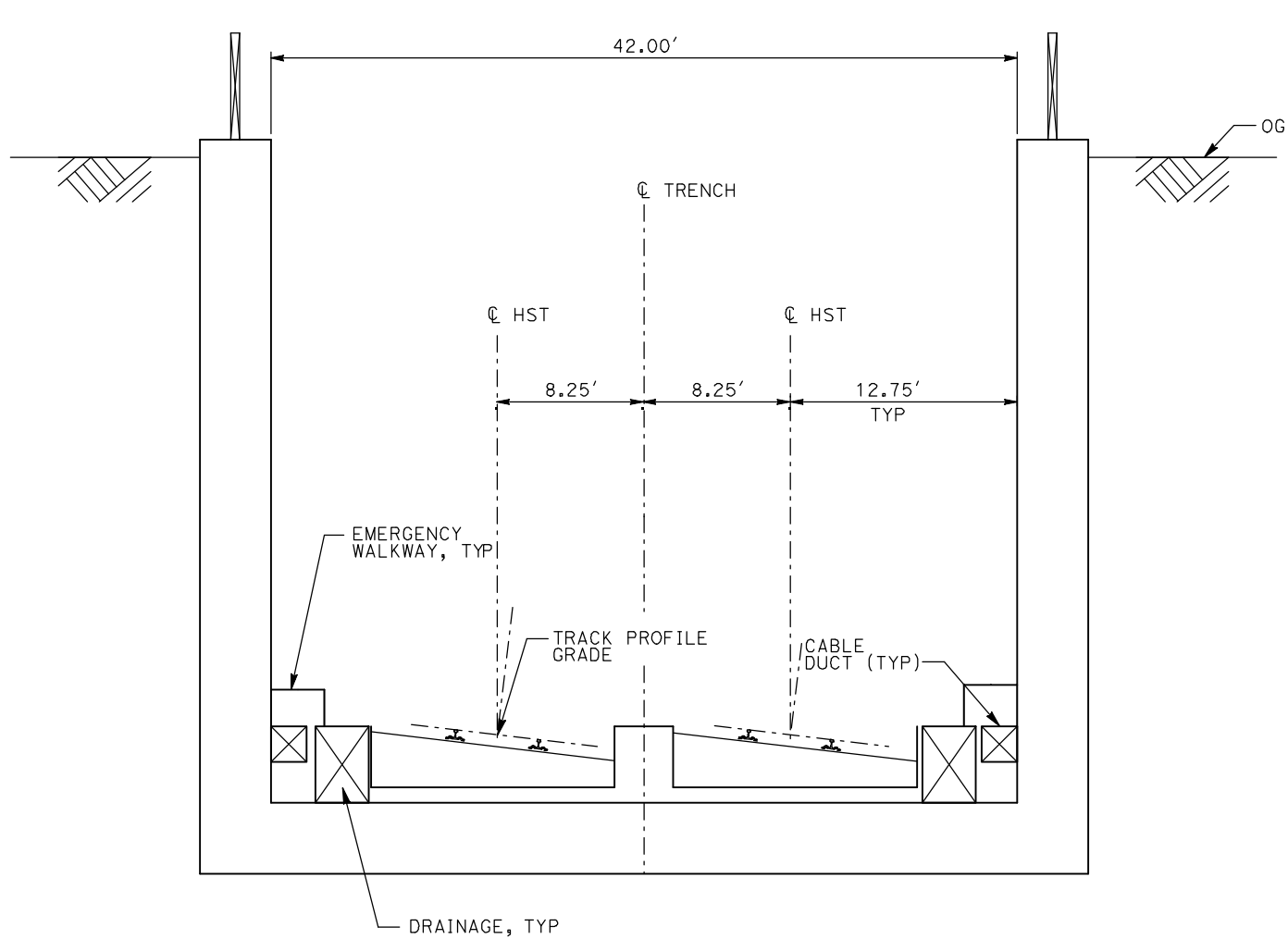
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 7 OF 17

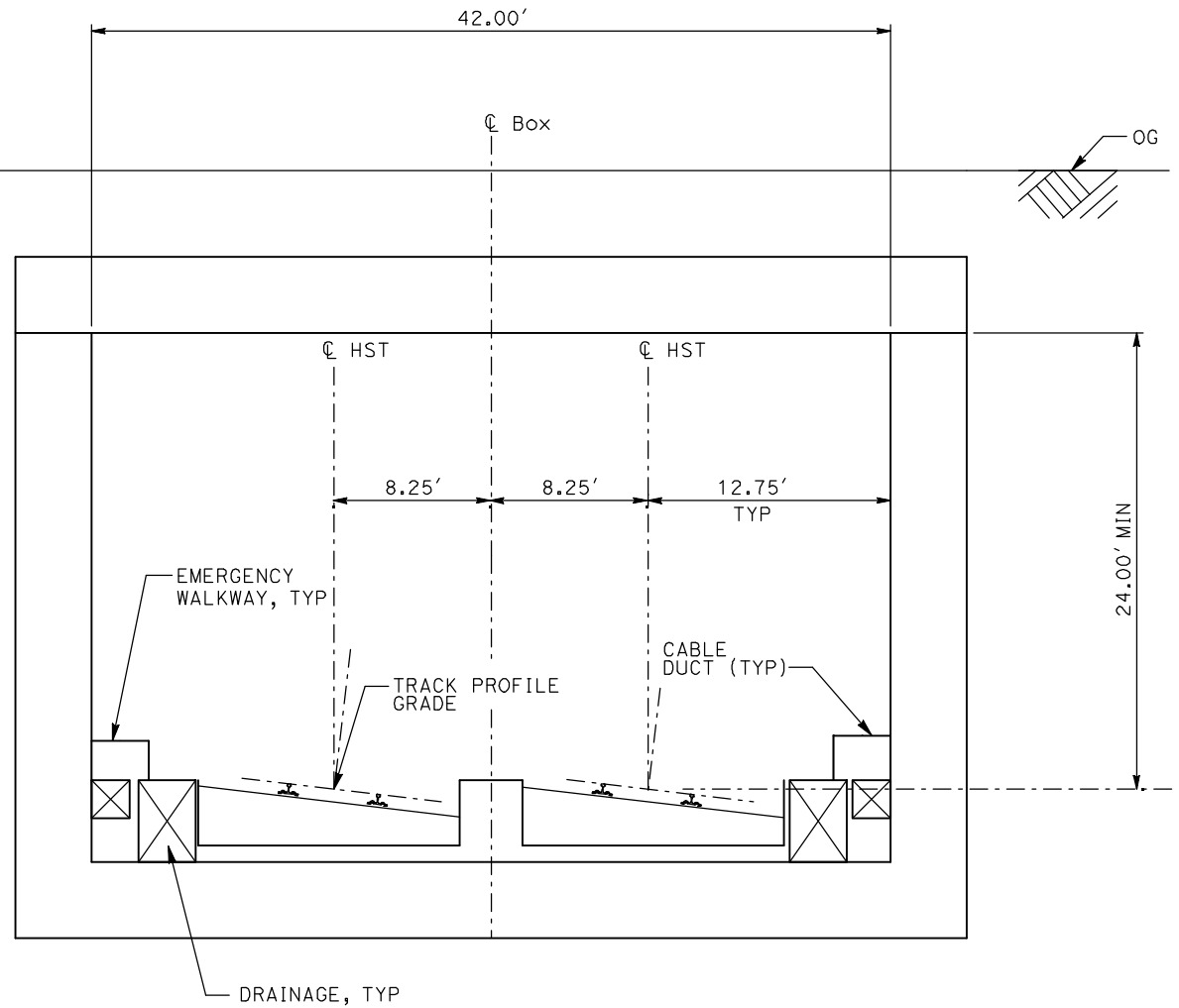
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DRAWING NO.
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SCALE
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OF ###

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ShieldsA



TR2 - 2 TRACK TRENCH



CC1 - 2 TRACK CUT AND COVER CLOSED BOX

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
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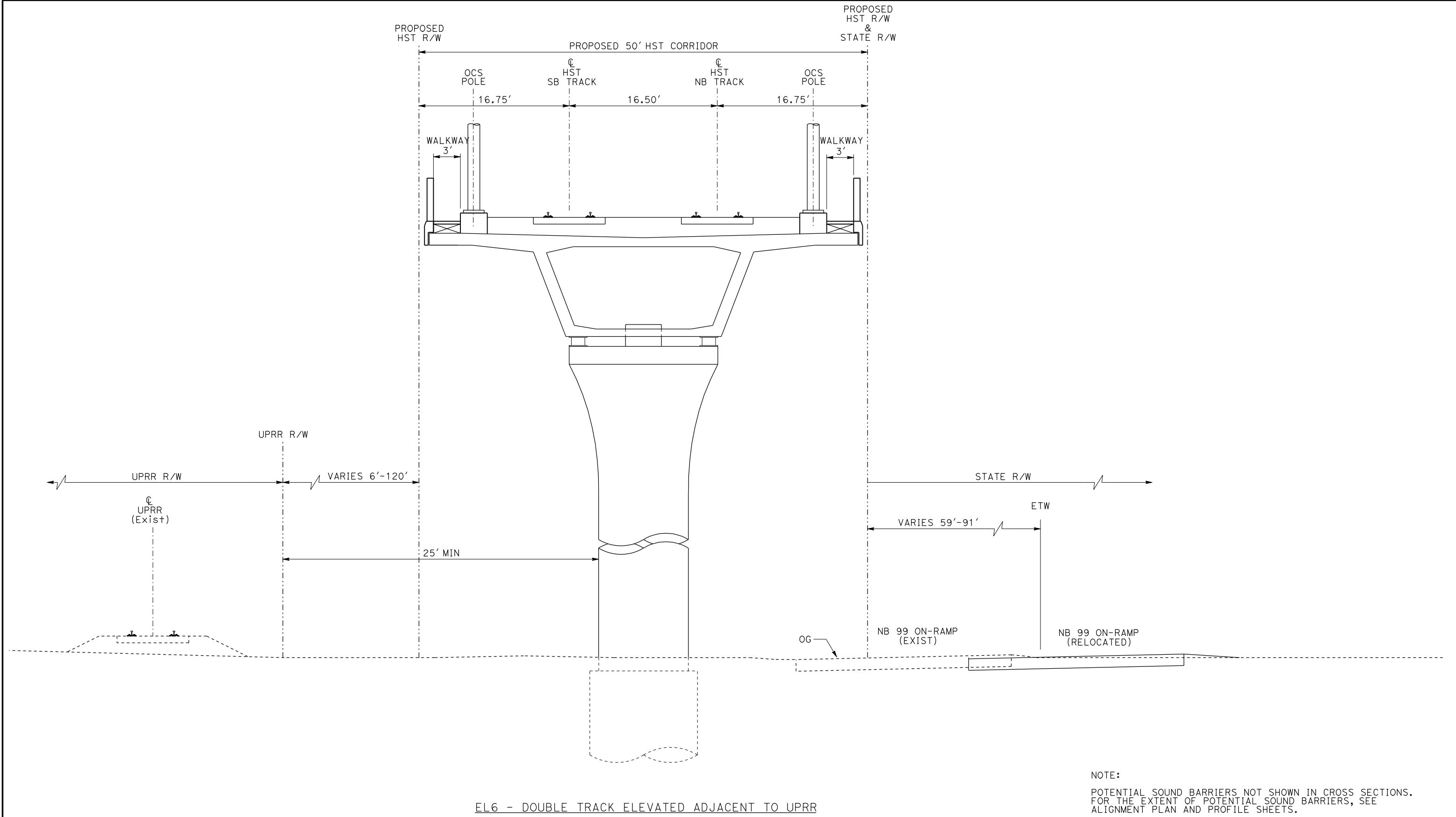
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 8 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3008-A
SCALE
NO SCALE
SHEET NO.
OF ###



NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
15% DESIGN
SUBMITTAL

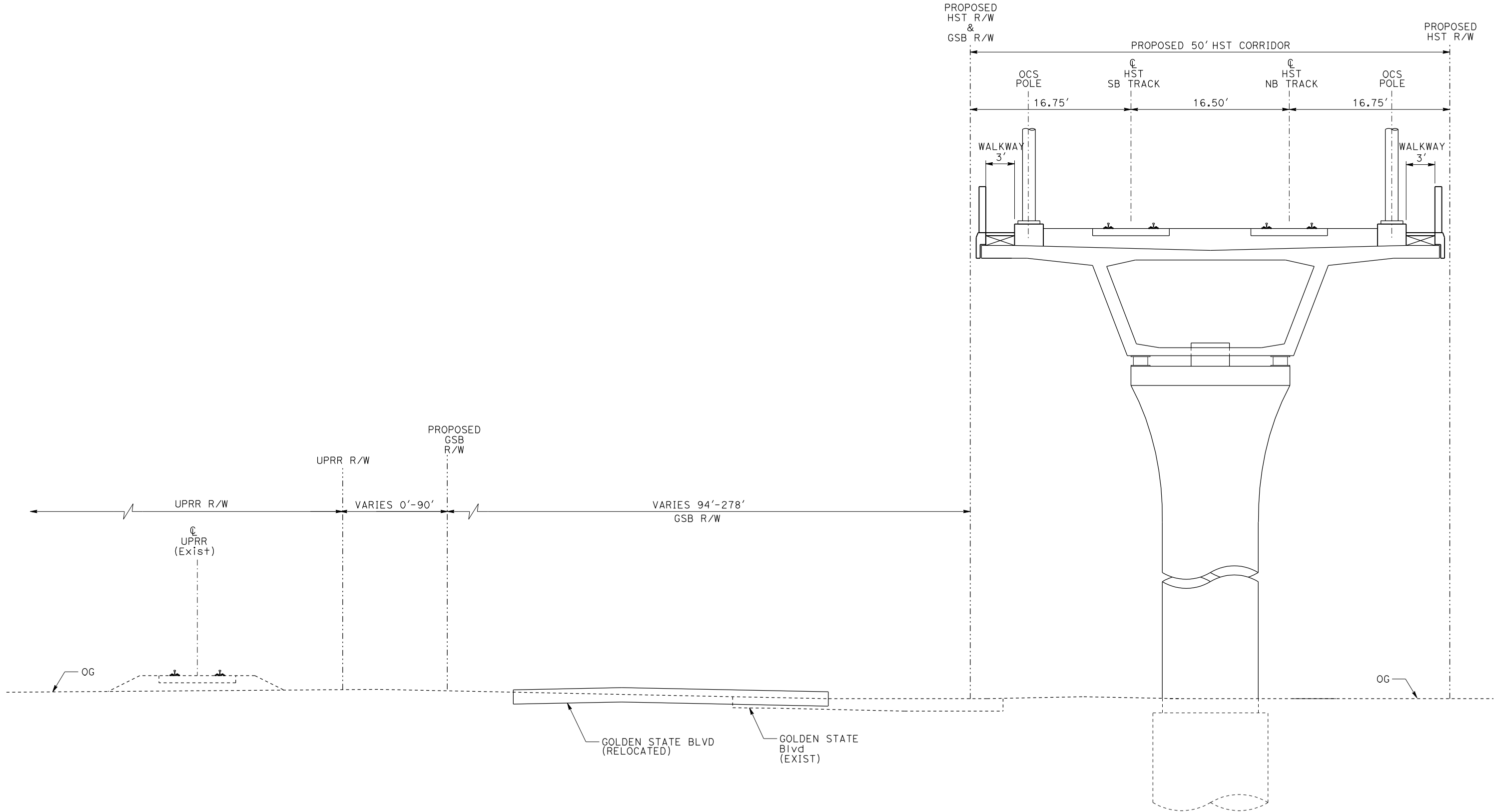
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 9 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3009-A
SCALE NO SCALE
SHEET NO.



EL7 - DOUBLE TRACK ELEVATED ADJACENT TO GOLDEN STATE BOULEVARD

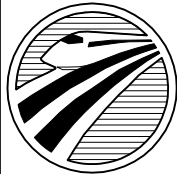
NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

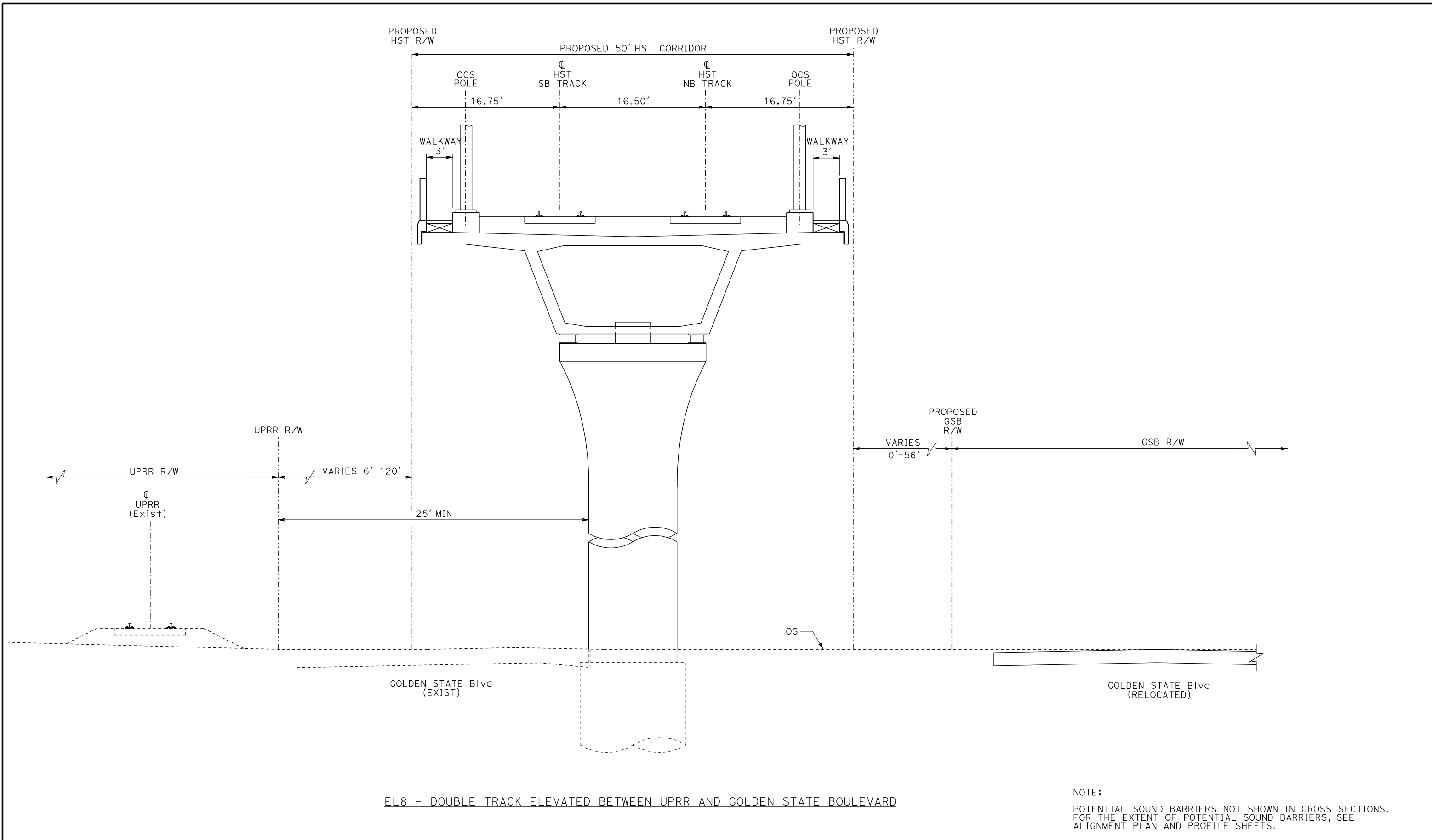


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 10 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3010-A
SCALE NO SCALE
SHEET NO.



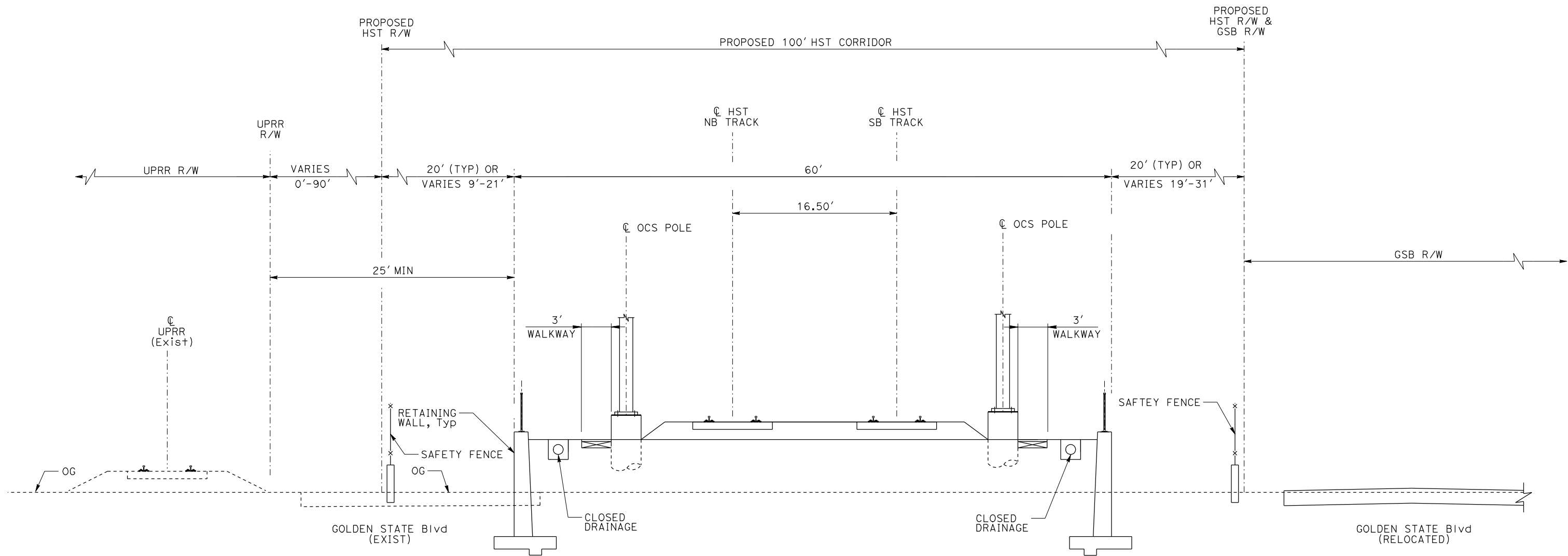
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					DRAWN BY S. LEONG					DRAWING NO. T3011-A
					CHECKED BY V. CHIO					SCALE NO SCALE
					IN CHARGE J. VALSECCHI					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE JULY 2011				

NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

TYPICAL SECTIONS
SHEET 11 OF 17

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DGN FILE => MF-T-3011-A1-E1R.dgn

DATE PLOTTED => 21-JUL-2011
TIME PLOTTED => 12:45



RF3 - DOUBLE TRACK BETWEEN UPRR AND GOLDEN STATE BOULEVARD

NOTE:

POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET 15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

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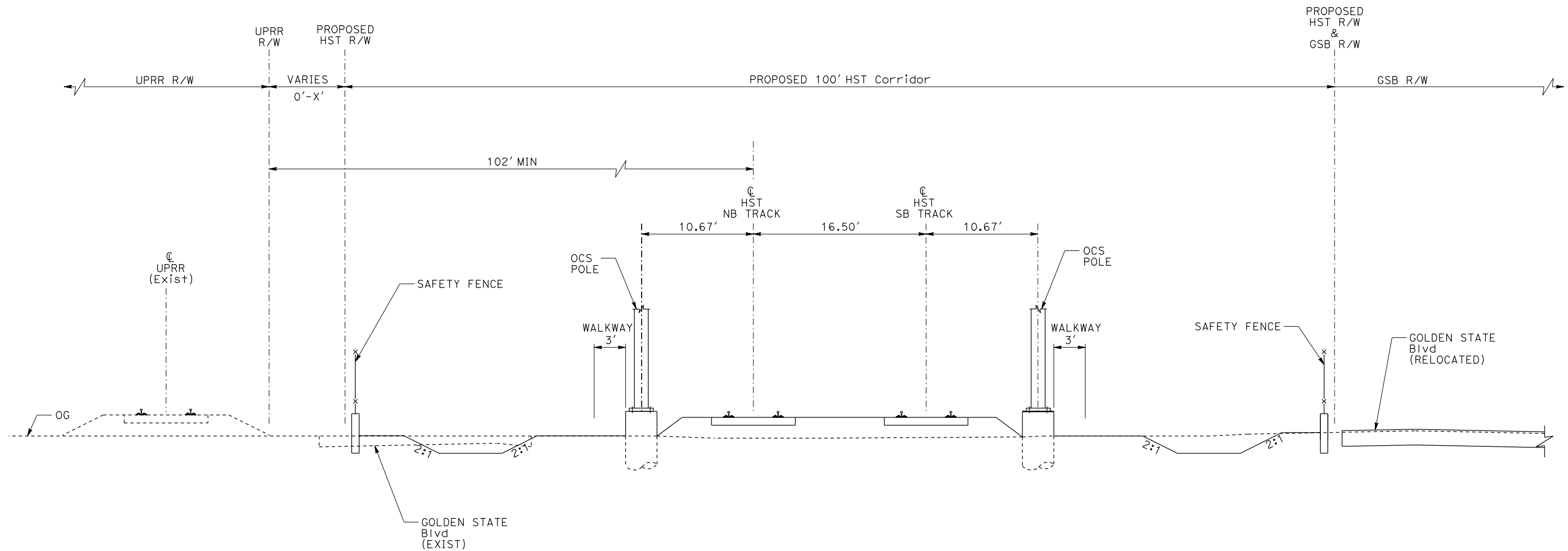
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTION
SHEET 12 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3012-A
SCALE NO SCALE
SHEET NO.



AG6 - DOUBLE TRACK BETWEEN UPRR AND GOLDEN STATE BOULEVARD

NOTE:

POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET 15% DESIGN SUBMITTAL
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CH2MHILL



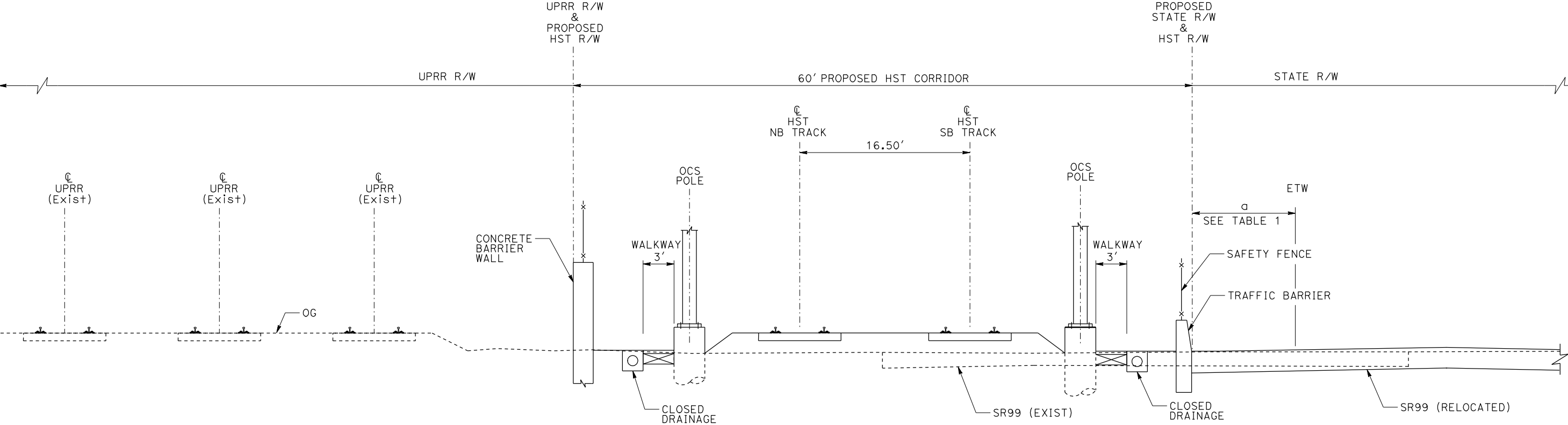
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTION
SHEET 13 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3013-A
SCALE NO SCALE
SHEET NO.

TABLE 1

$a > 30'$	NO TRAFFIC BARRIER
$4' < a < 30'$	TRAFFIC BARRIER



AG7 - DOUBLE TRACK BETWEEN UPRR AND STATE ROUTE 99

NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

						DESIGNED BY L. PROCTOR
						DRAWN BY S. LEONG
						CHECKED BY V. CHIO
						IN CHARGE J. VALSECCHI
						DATE JULY 2011
REV	DATE	BY	CHK	APP		DESCRIPTION

RECORD SET
15% DESIGN
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CONSTRUCTION



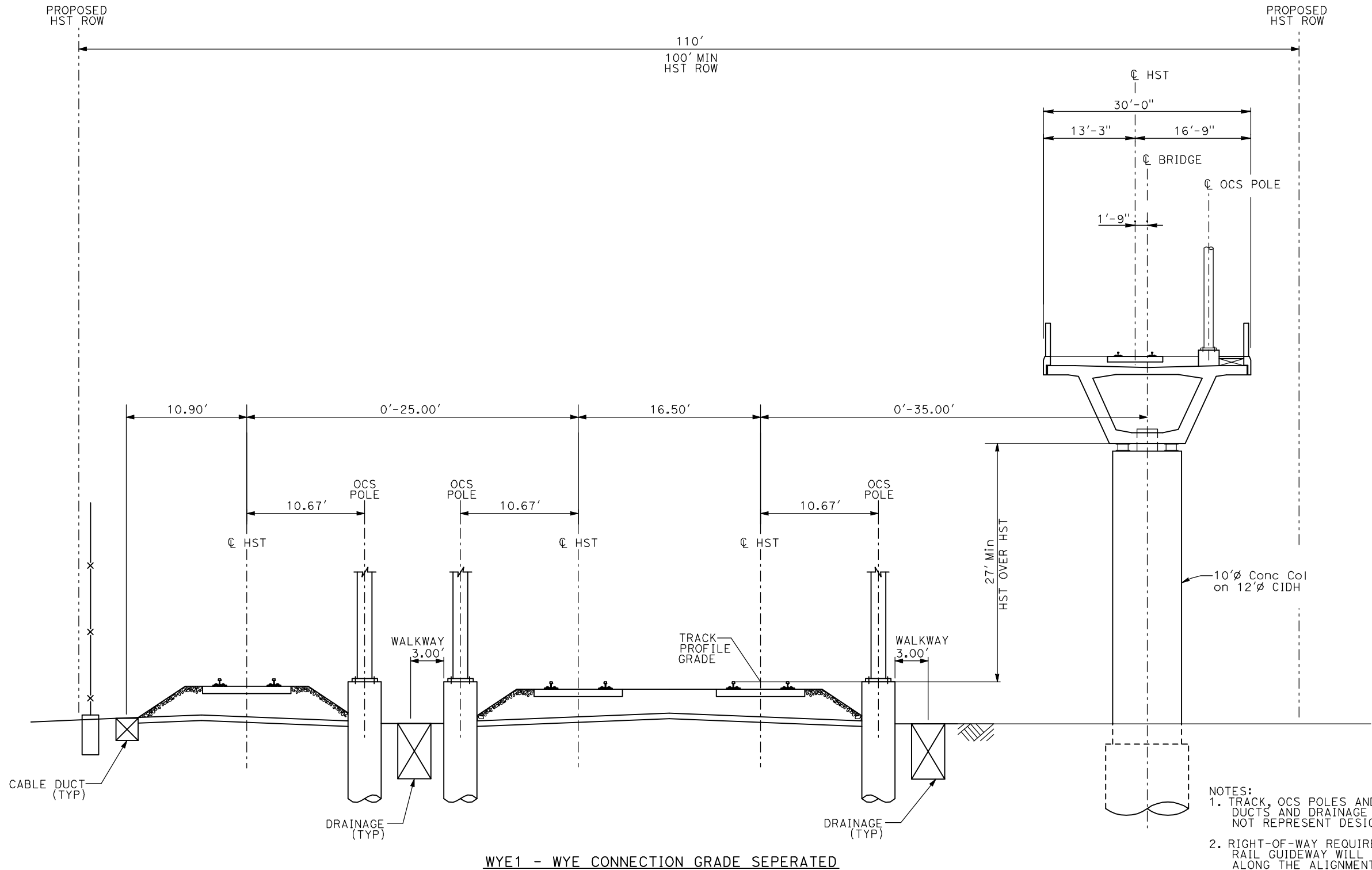
CALIFORNIA HIGH-SPEED TRAIN PROJECT
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TYPICAL SECTION
SHEET 14 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3014-A
SCALE NO SCALE
SHEET NO.

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ShieldsA



WYE1 - WYE CONNECTION GRADE SEPERATED

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



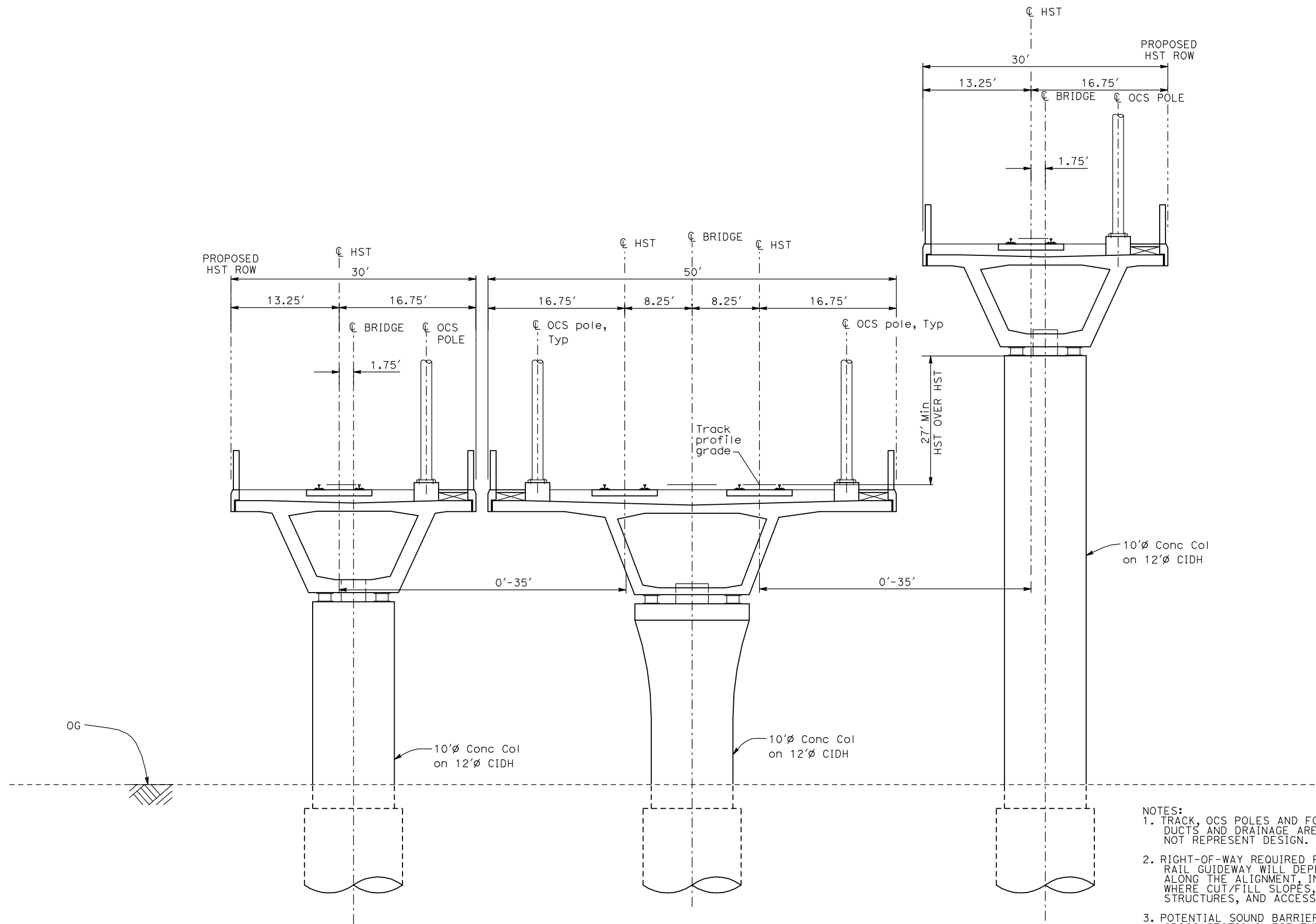
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 15 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3015-A
SCALE
NO SCALE
SHEET NO.
OF ###

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ShieldsA



- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

WYE2 - WYE CONNECTION GRADE SEPERATED

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 16 OF 17

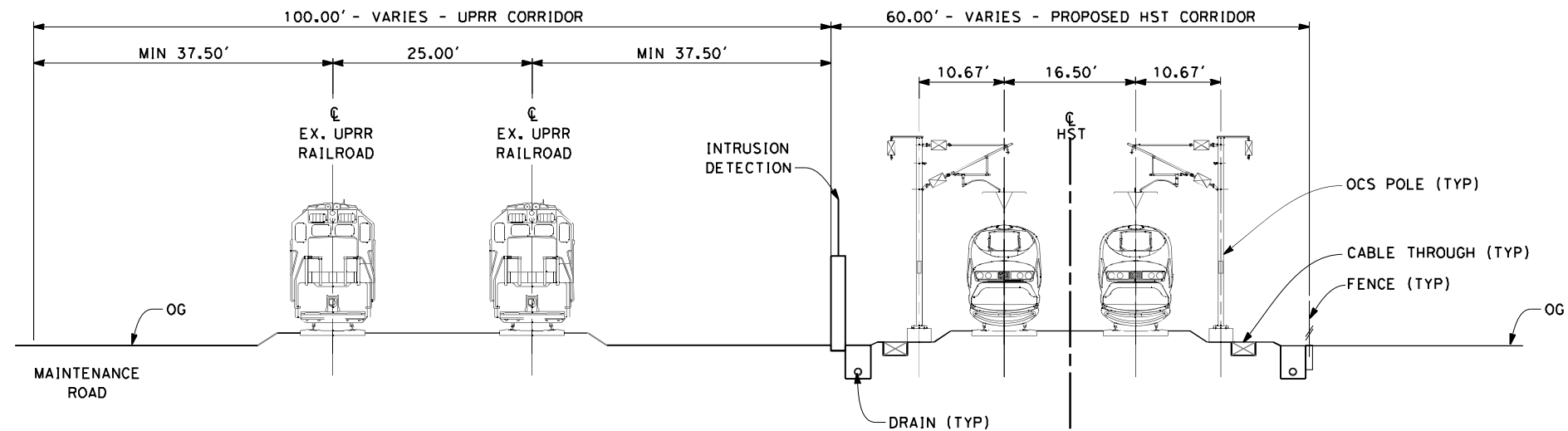
CONTRACT NO.
HSR06-007
DRAWING NO.
T3016-A
SCALE
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SHEET NO.
OF ###



- TYPICAL SECTIONS
SHEET 17 OF 17

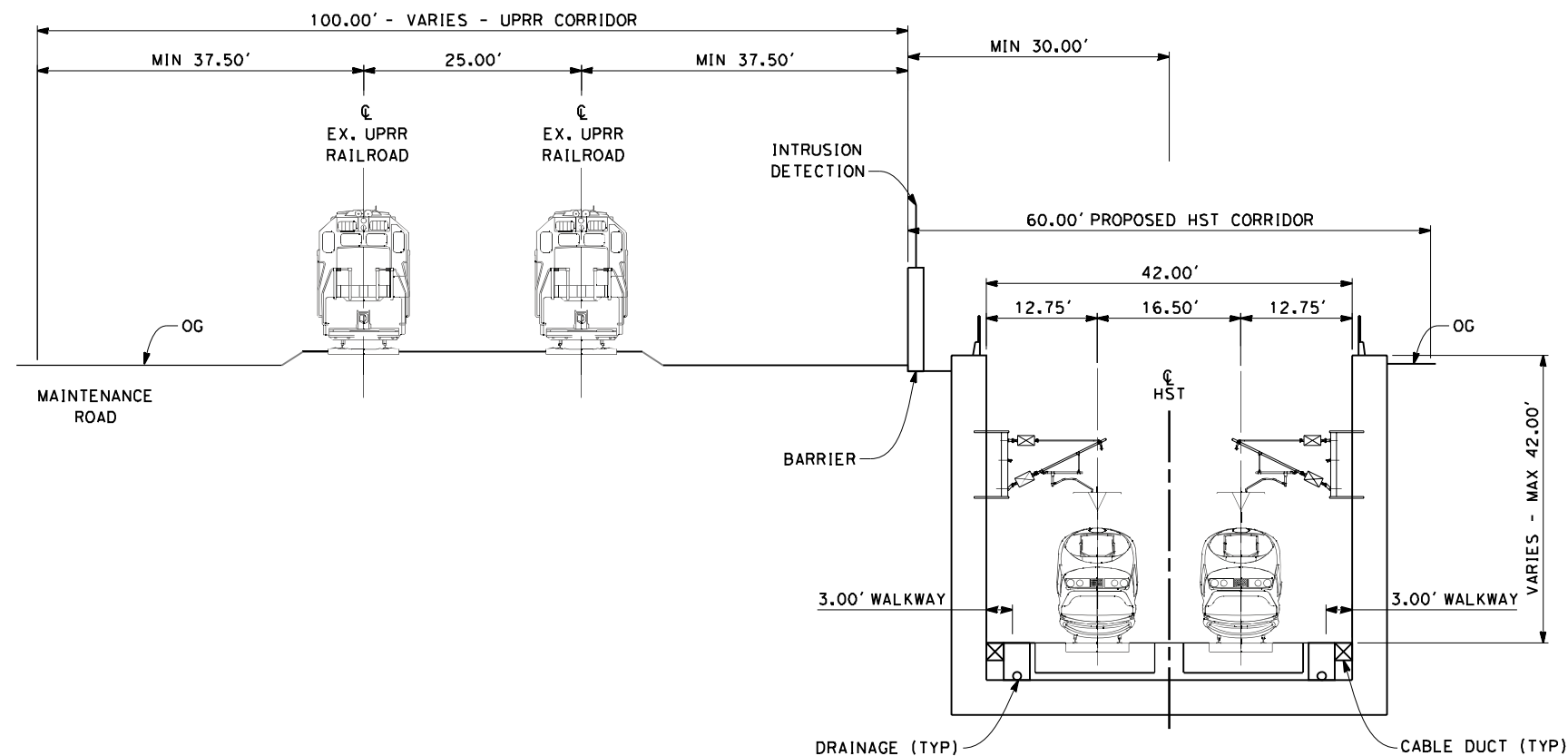
						DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811 CH2M HILL	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO TYPICAL SECTIONS SHEET 17 OF 17	CONTRACT NO. HSR06-007
						DRAWN BY C. VALADAO					DRAWING NO. T3017-A
						CHECKED BY A. BOONE					SCALE NO SCALE
						IN CHARGE A. BOONE					SHEET NO. OF ###
						DATE 07/20/2011					
REV	DATE	BY	CHK	APP	DESCRIPTION						

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SECTION 1

TWIN TRACK AT GRADE 60FT ROW ADJACENT TO UPRR
STA 100+00 THROUGH STA 182+00



SECTION 2

TWIN TRACK IN TRENCH
STA 196+00 THROUGH STA 260+00

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES
4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY E. CAQUIAS
CHECKED BY D. HUNT
IN CHARGE A. LUFT
DATE 05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

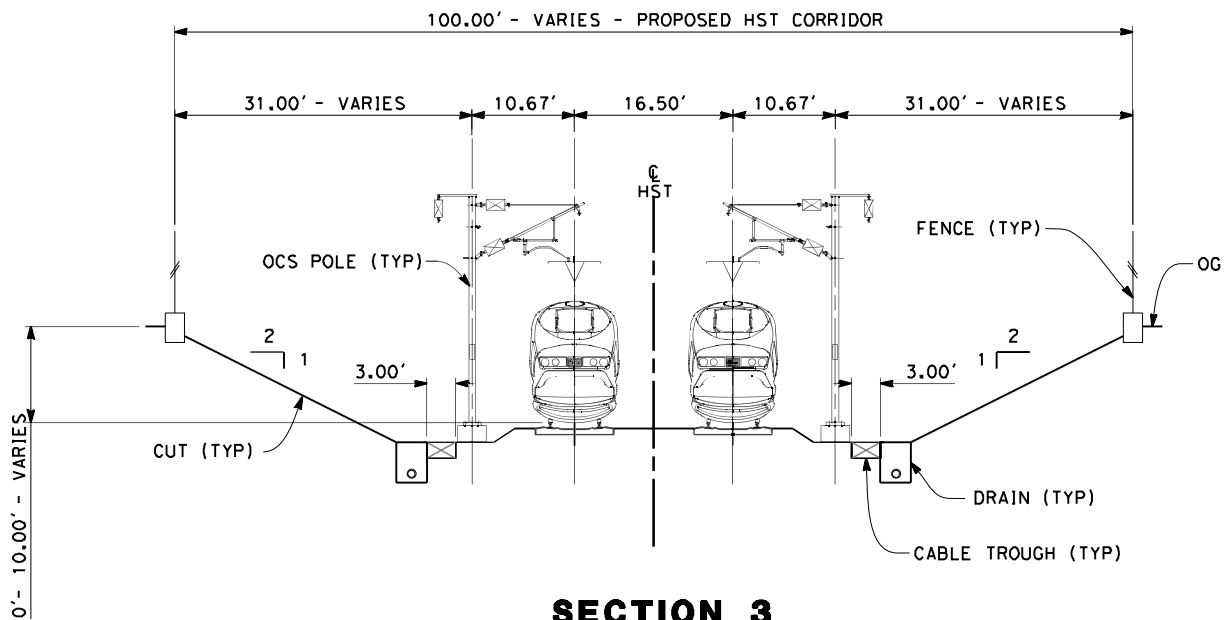


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

FRESNO SUBSECTION
ALIGNMENT F1
CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. T3018-A
SCALE AS SHOWN
SHEET NO. XX OF XX

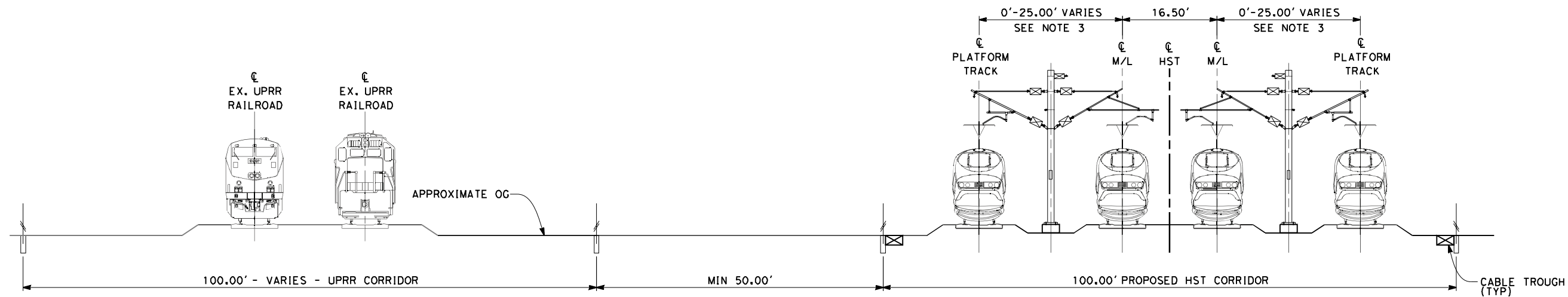
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SECTION 3

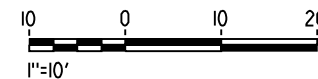
TWIN TRACK IN OPEN CUT
STA 260+00 THROUGH STA 264+25
STA 260+00 THROUGH STA 270+74 (KERN OPTION)

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
 2. SUPERELEVATION IS NOT SHOWN THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES
 3. DISTANCE BETWEEN TRACKS VARIES FROM 0-25.00' THROUGH TURNOUTS AND REVERSE TO PARALLEL.
 4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS



SECTION 4

4 TRACK AT GRADE STATION APPROACH
STA 264+25 THROUGH STA 285+84
STA 286+84 THROUGH STA 287+20
STA 301+30 THROUGH STA 302+00
STA 320+25 THROUGH STA 324+25
STA 270+74 THROUGH STA 285+84 (KERN OPTION)
STA 286+84 THROUGH STA 293+70 (KERN OPTION)
STA 307+80 THROUGH STA 308+50 (KERN OPTION)
STA 326+75 THROUGH STA 334+00 (KERN OPTION)



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY E. CAQUIAS
CHECKED BY D. HUNT
IN CHARGE A. LUFT
DATE 06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

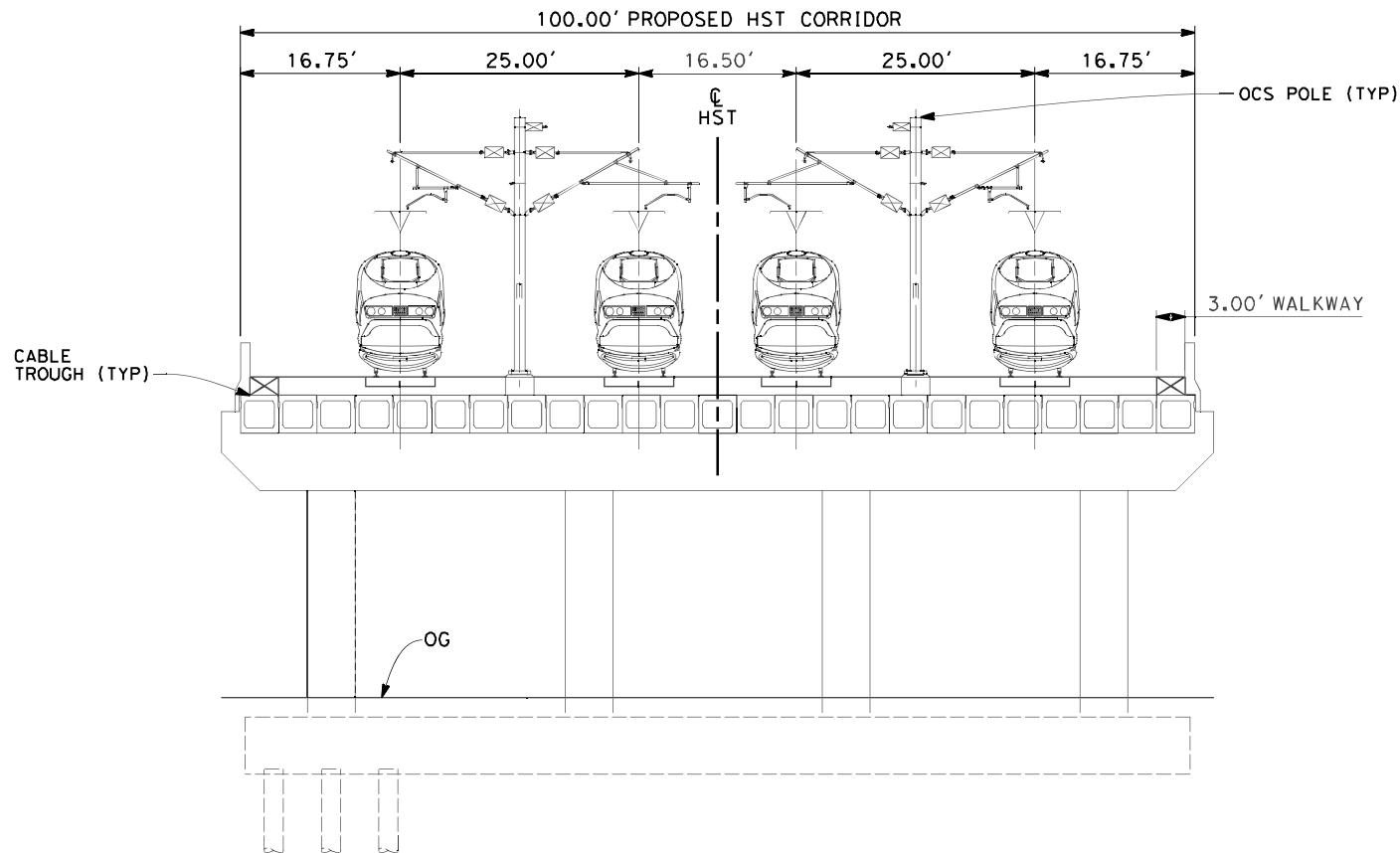


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

FRESNO SUBSECTION
ALIGNMENT F1
CROSS SECTIONS

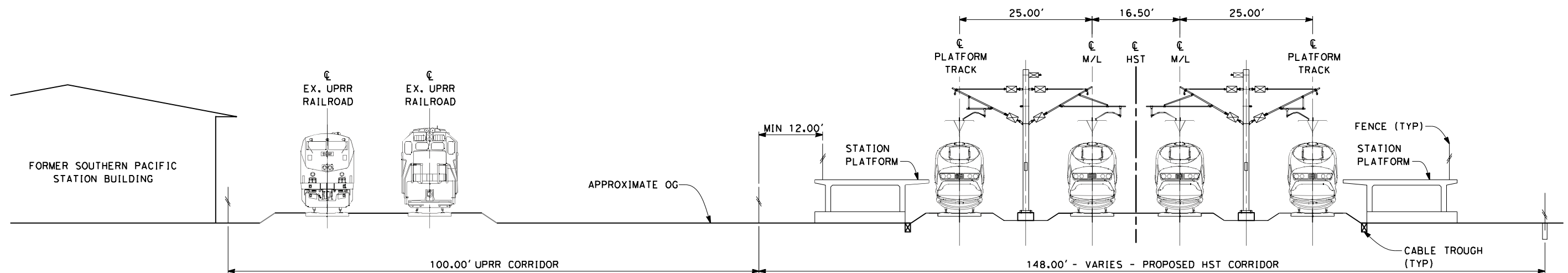
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DRAWING NO. T3019-A
SCALE AS SHOWN
SHEET NO. XX OF XX

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SECTION 5

TWIN TRACK - BOX GIRDER BRIDGE
STA 285+84 THROUGH STA 286+84



SECTION 6

4 TRACK AT GRADE PLATFORMS
STA 287+20 THROUGH STA 301+30
STA 293+70 THROUGH STA 307+80 (KERN OPTION)



- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
 2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY E. CAQUIAS
CHECKED BY D. HUNT
IN CHARGE A. LUFT
DATE 06/30/11

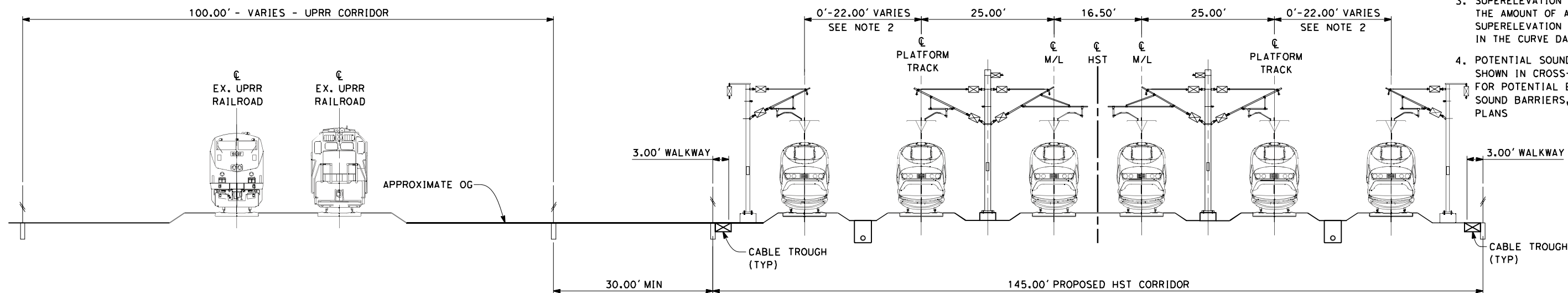
RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
FRESNO SUBSECTION
ALIGNMENT F1
CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. T3020-A
SCALE AS SHOWN
SHEET NO. XX OF XX

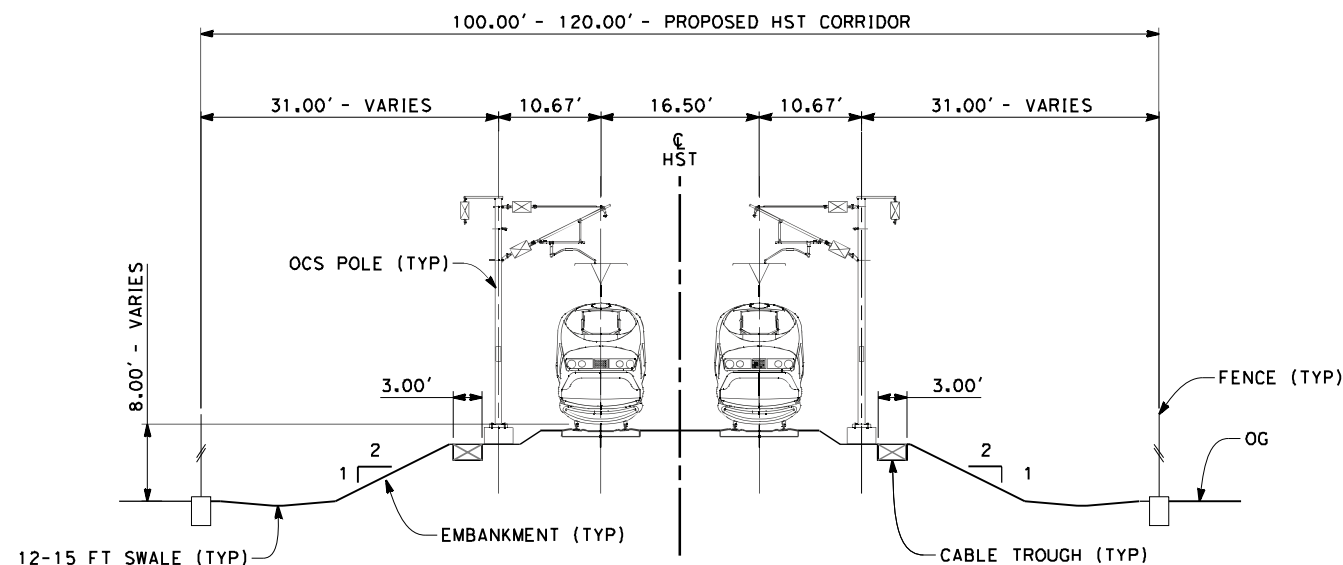
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- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
 2. DISTANCE BETWEEN TRACKS VARIES FROM 0-22.00' THROUGH TURNOUTS AND REVERSE TO PARALLEL.
 3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES
 4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS

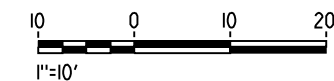
SECTION 7

6 TRACK AT GRADE INCLUDING STORAGE TRACKS
STA 302+00 THROUGH STA 320+25
STA 308+50 THROUGH STA 326+75 (KERN OPTION)



SECTION 8

TWIN TRACK AT GRADE 100FT ROW
STA 324+25 THROUGH STA 338+50



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY E. CAQUIAS
CHECKED BY D. HUNT
IN CHARGE A. LUFT
DATE 06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

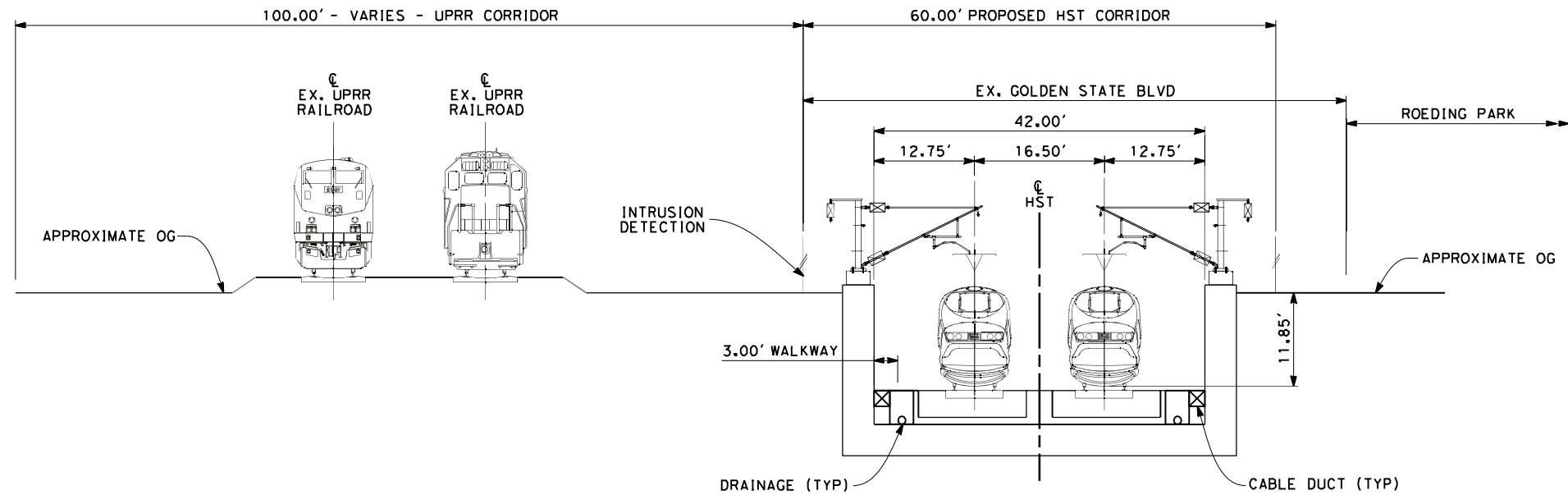


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

FRESNO SUBSECTION
ALIGNMENT F1
CROSS SECTIONS

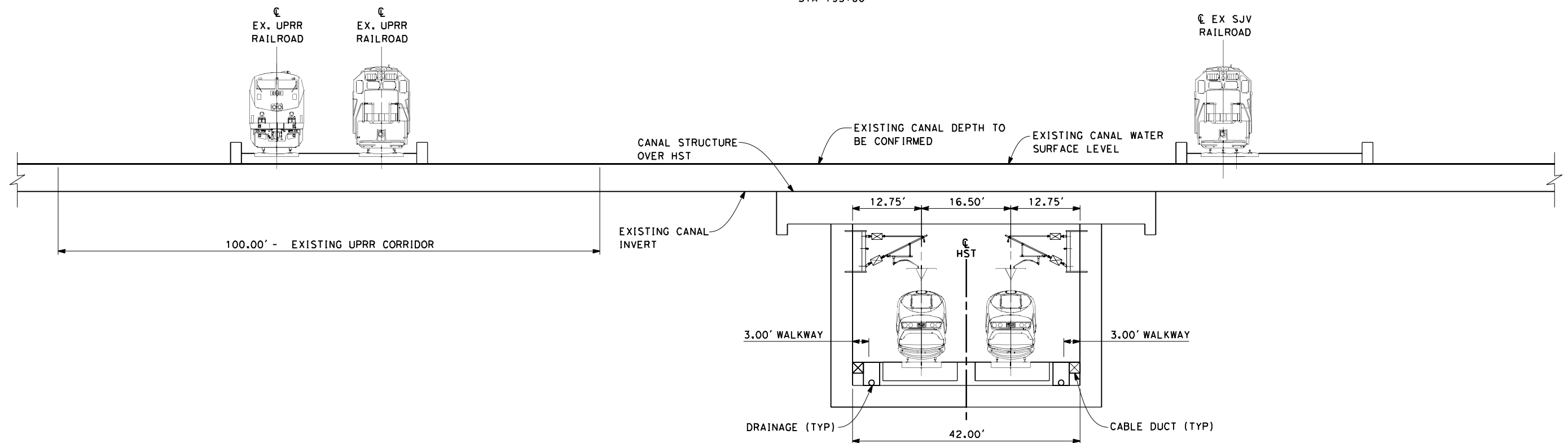
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SCALE AS SHOWN
SHEET NO. XX OF XX

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SECTION 13

TWIN TRACK IN TRENCH ADJACENT TO
UPRR AND ROEDING PARK
STA 195+00

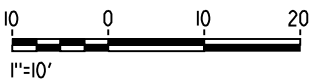


SECTION 14

TWIN TRACK IN TRENCH UNDER CANAL
STA 228+30

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES
4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY E. CAQUIAS
CHECKED BY D. HUNT
IN CHARGE A. LUFT
DATE 05/13/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

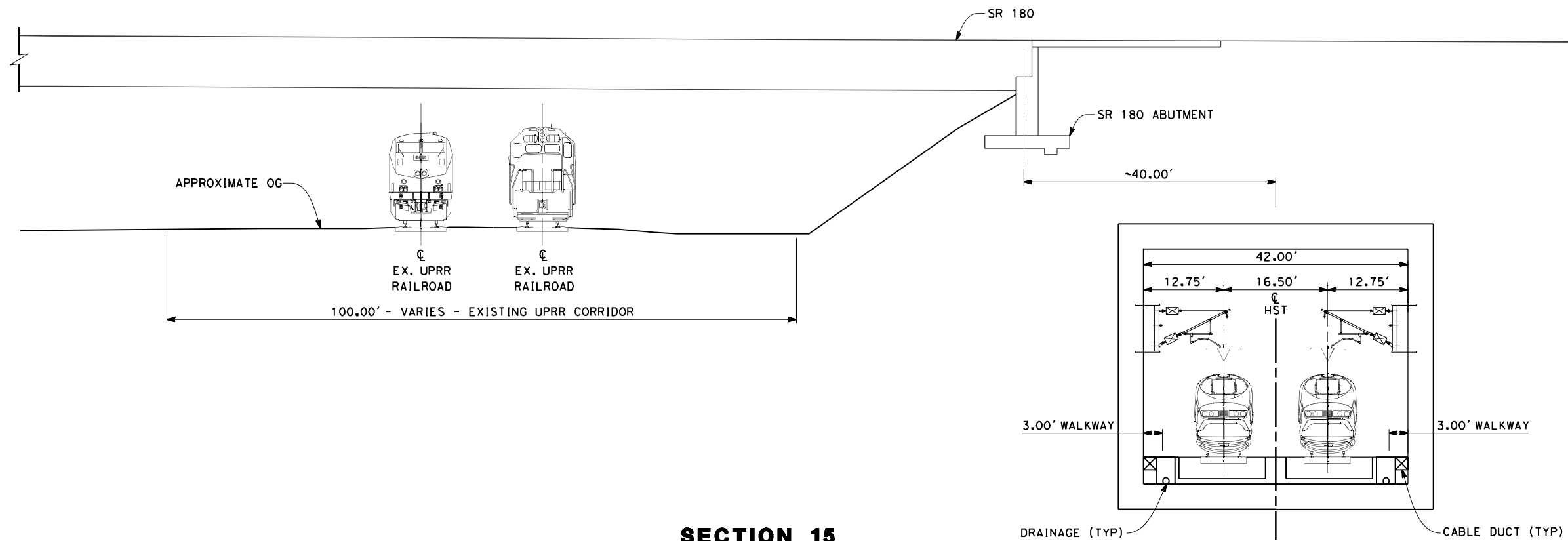


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

FRESNO SUBSECTION
ALIGNMENT F1
CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. T3022-A
SCALE AS SHOWN
SHEET NO. XX OF XX

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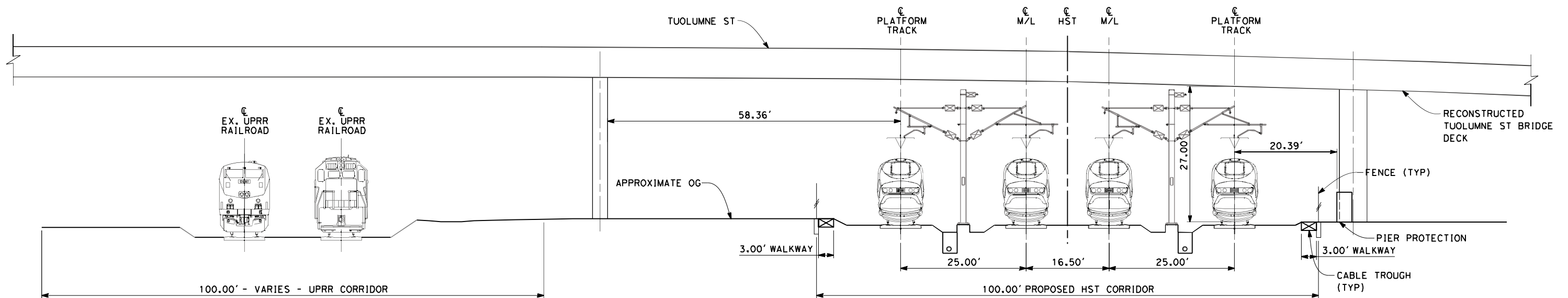


SECTION 15

TWIN TRACK IN BOX ADJACENT TO SR-180 ABUTMENT
STA 232+00

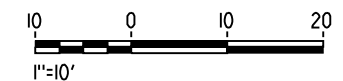
NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES
4. FOR SECTION 16 OCS POLES TO BE SPACED BEFORE & AFTER BRIDGE. POSITIONS ARE INDICATIVE
5. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS



SECTION 16

4 TRACK AT GRADE STATION APPROACH UNDER TUOLUMNE ST
STA 276+50
STA 276+50 (KERN OPTION)



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY E. CAQUIAS
CHECKED BY D. HUNT
IN CHARGE A. LUFT
DATE 05/13/11

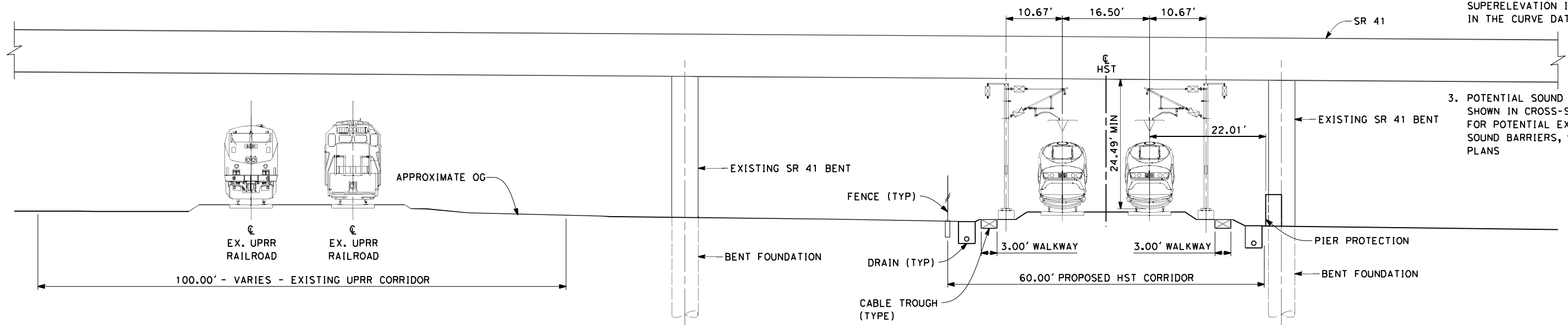
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NOT FOR CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
FRESNO SUBSECTION
ALIGNMENT F1
CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. T3023-A
SCALE AS SHOWN
SHEET NO. XX OF XX

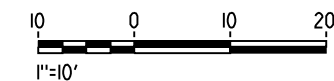
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- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
 2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS

SECTION 17

TWIN TRACK UNDER SR-41
STA 333+00
STA 333+00 (KERN OPTION)



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY E. CAQUIAS
CHECKED BY D. HUNT
IN CHARGE A. LUFT
DATE 06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

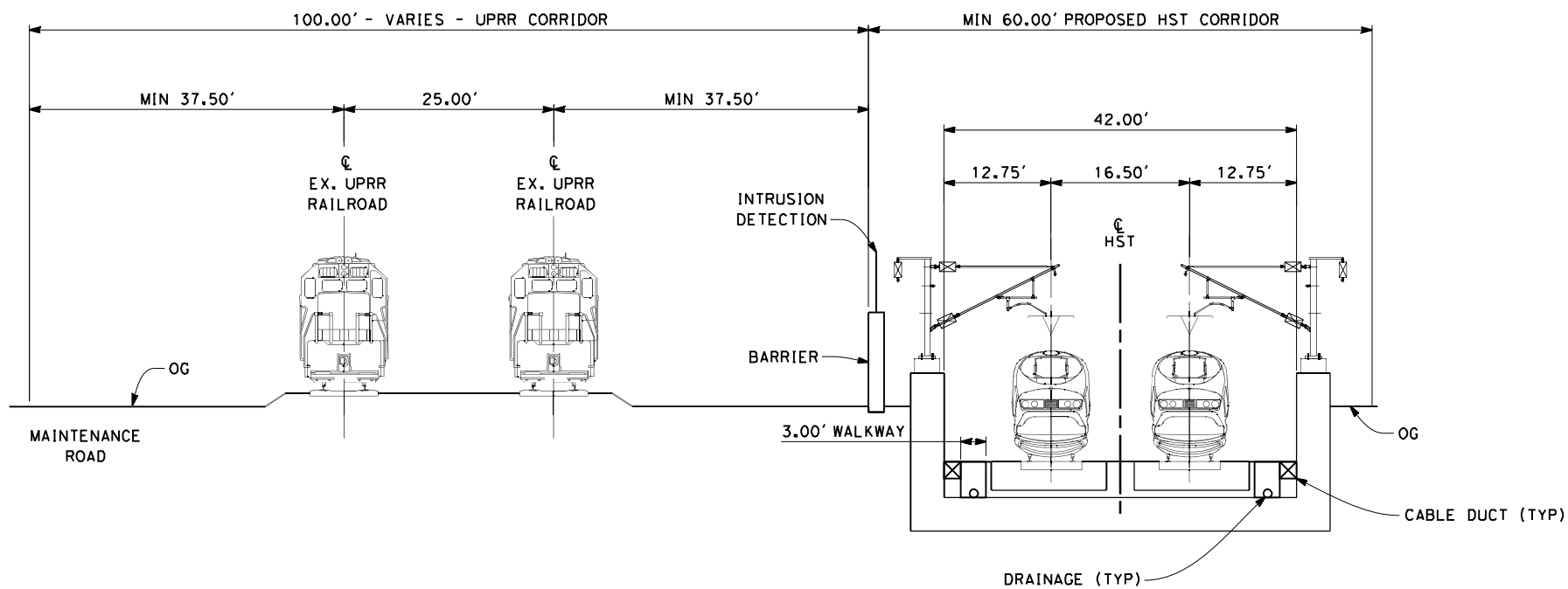


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

FRESNO SUBSECTION
ALIGNMENT F1
CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. T3024-A
SCALE AS SHOWN
SHEET NO. XX OF XX

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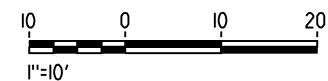


SECTION 19

TWIN TRACK IN TRENCH
STA 182+00 THROUGH STA 196+00

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY E. CAQUIAS
CHECKED BY D. HUNT
IN CHARGE A. LUFT
DATE 06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



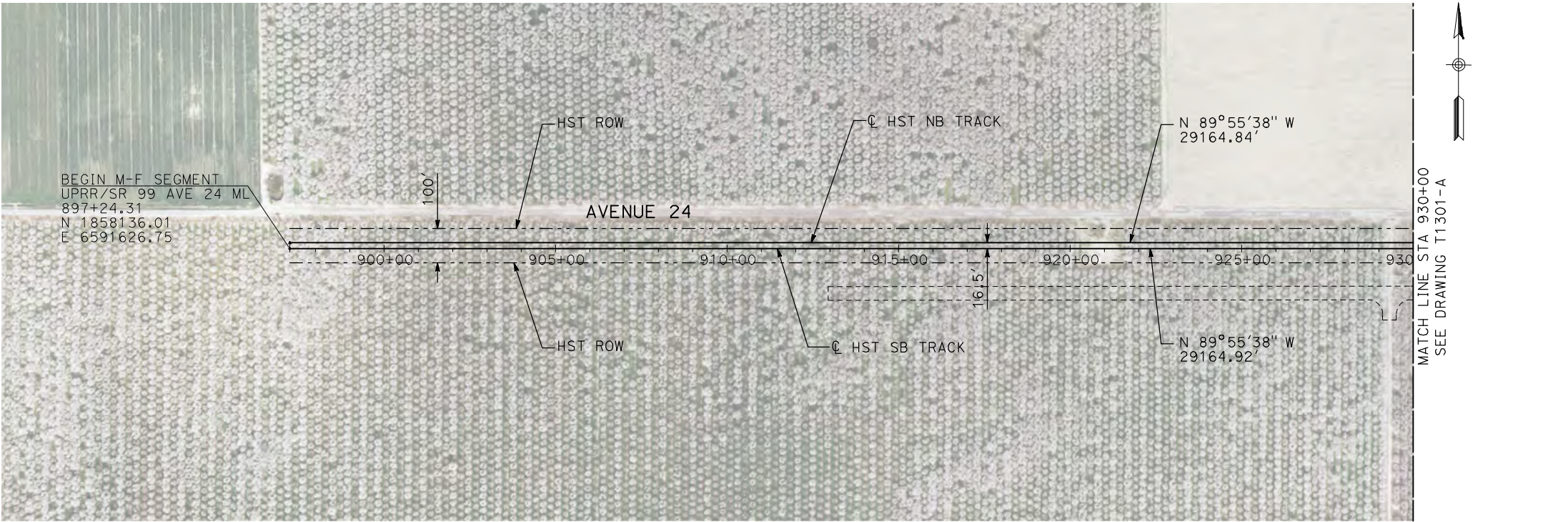
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

FRESNO SUBSECTION
ALIGNMENT F1
CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. T3025-A
SCALE AS SHOWN
SHEET NO. XX OF XX

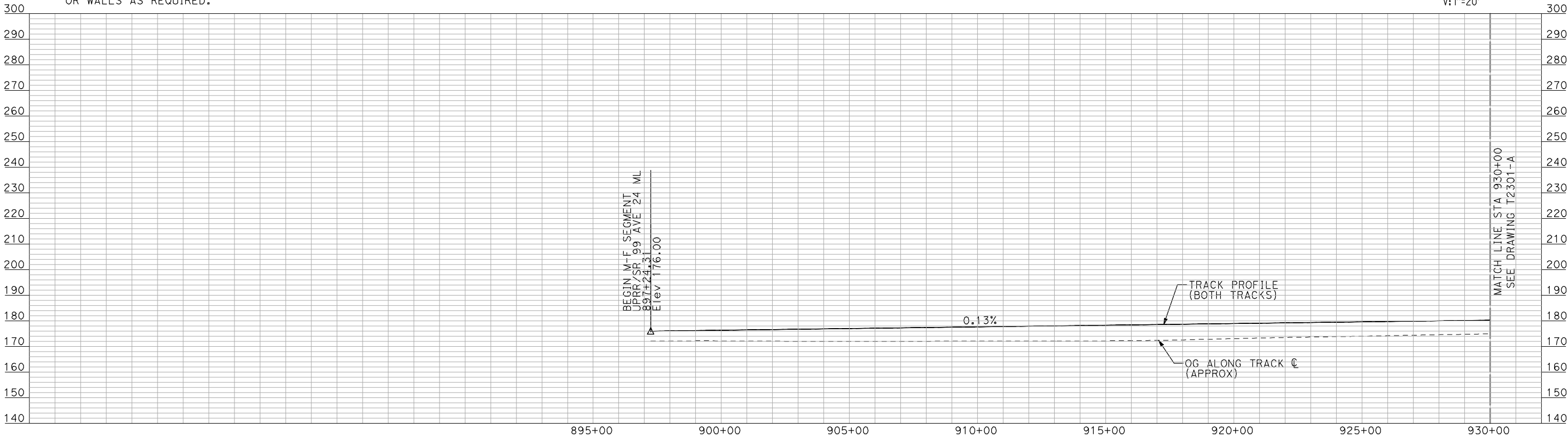
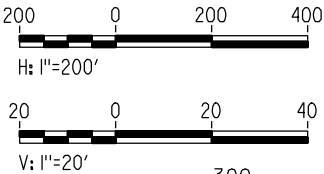
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

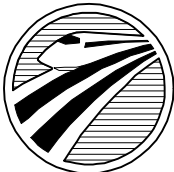
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

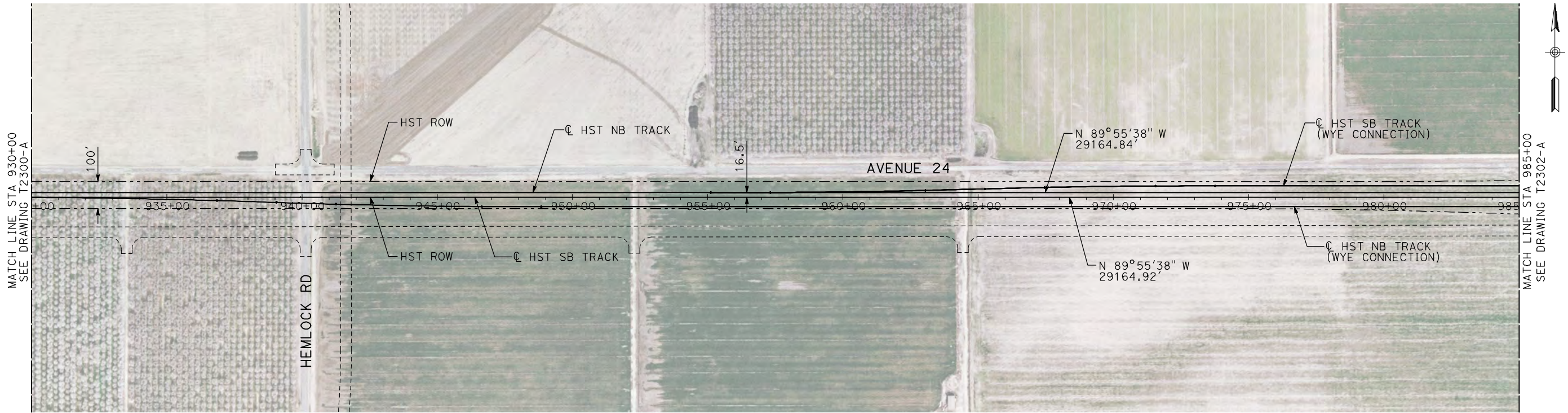


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 897+24.31 TO STA 930+00

CONTRACT NO. HSR06-007
DRAWING NO. T2300-A
SCALE AS SHOWN
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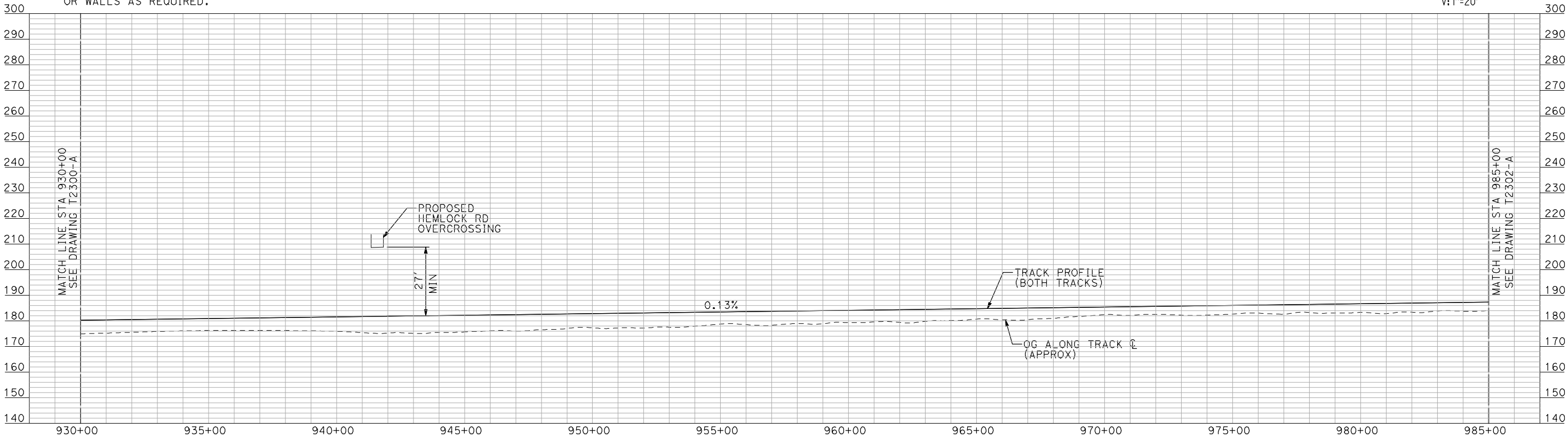
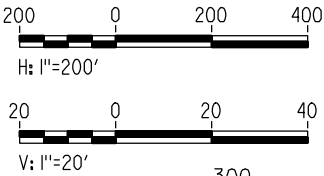
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NOTES:

- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

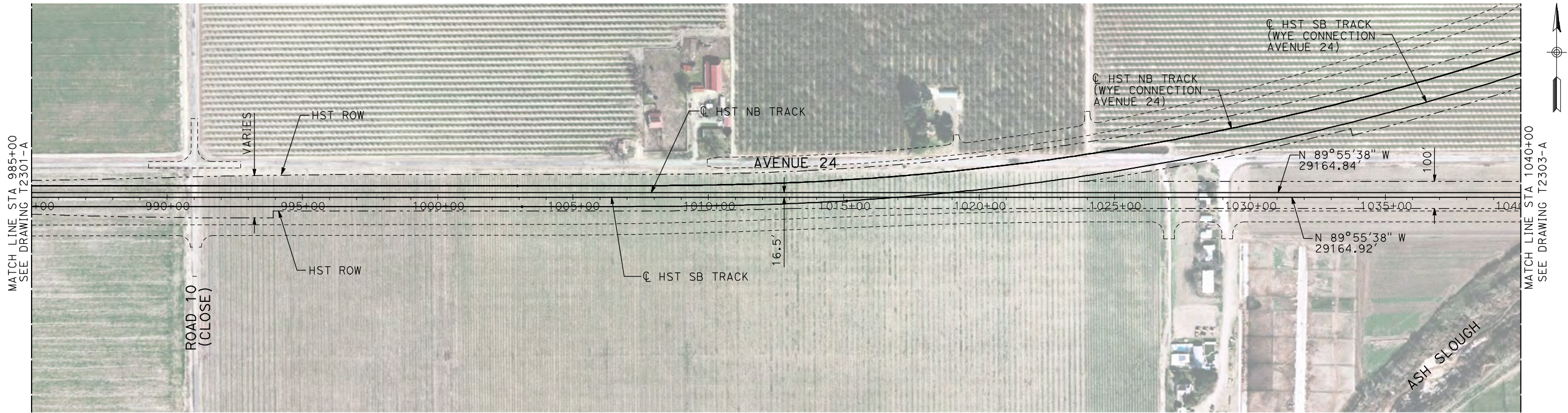
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 930+00 TO STA 985+00

CONTRACT NO. HSR06-007
DRAWING NO. T2301-A
SCALE AS SHOWN
SHEET NO. ### OF ###

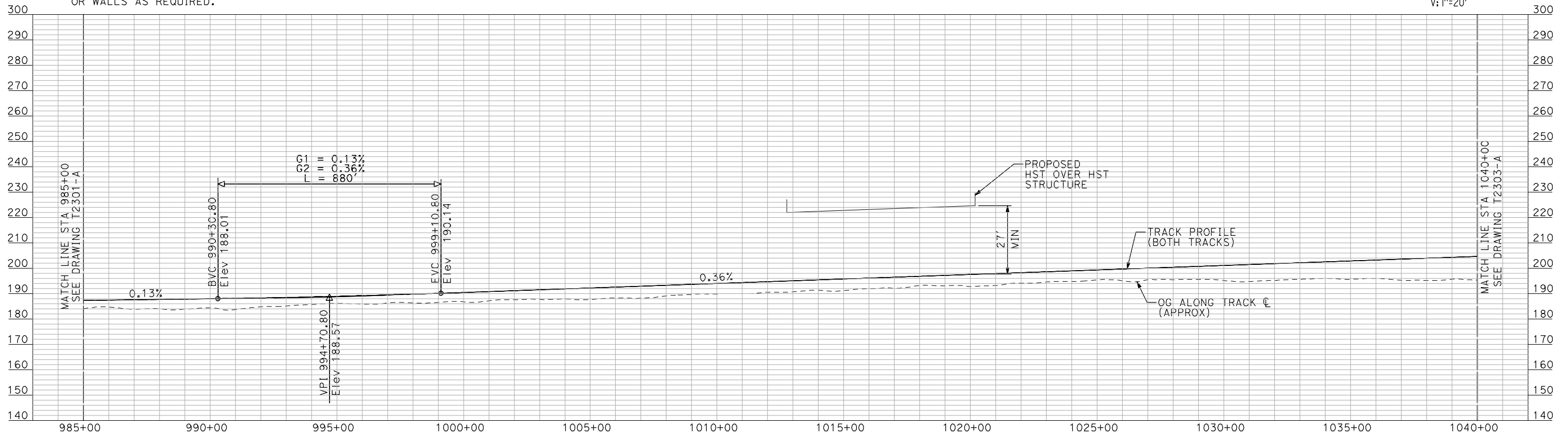
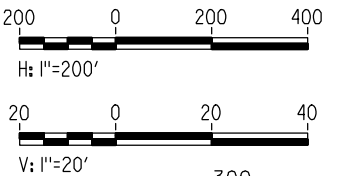
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

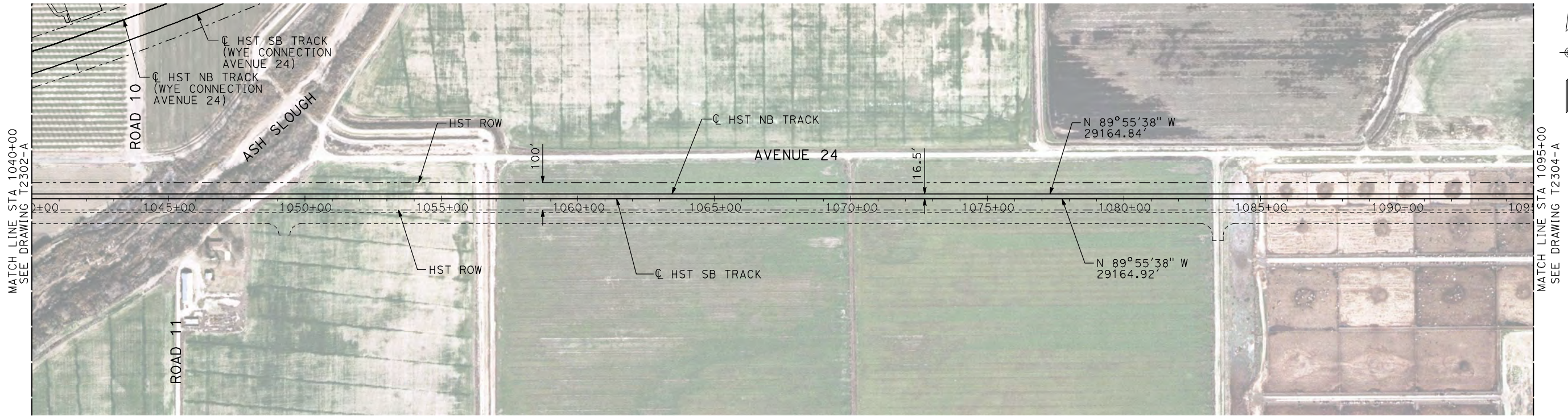
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 985+00 TO STA 1040+00

CONTRACT NO. HSR06-007
DRAWING NO. T2302A
SCALE AS SHOWN
SHEET NO. ### OF ###

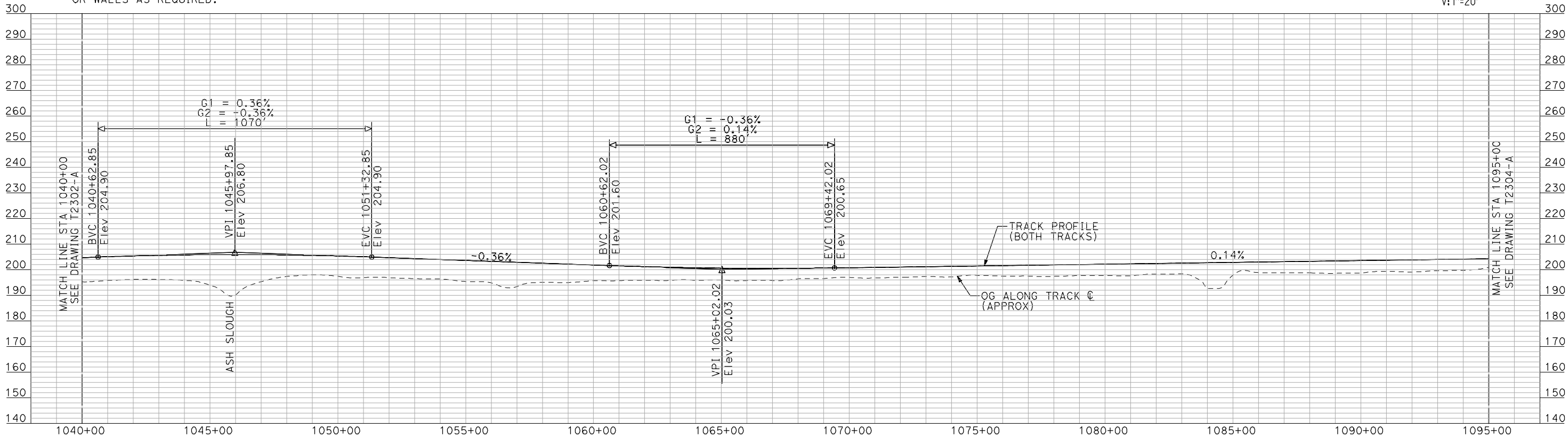
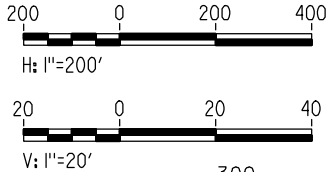
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

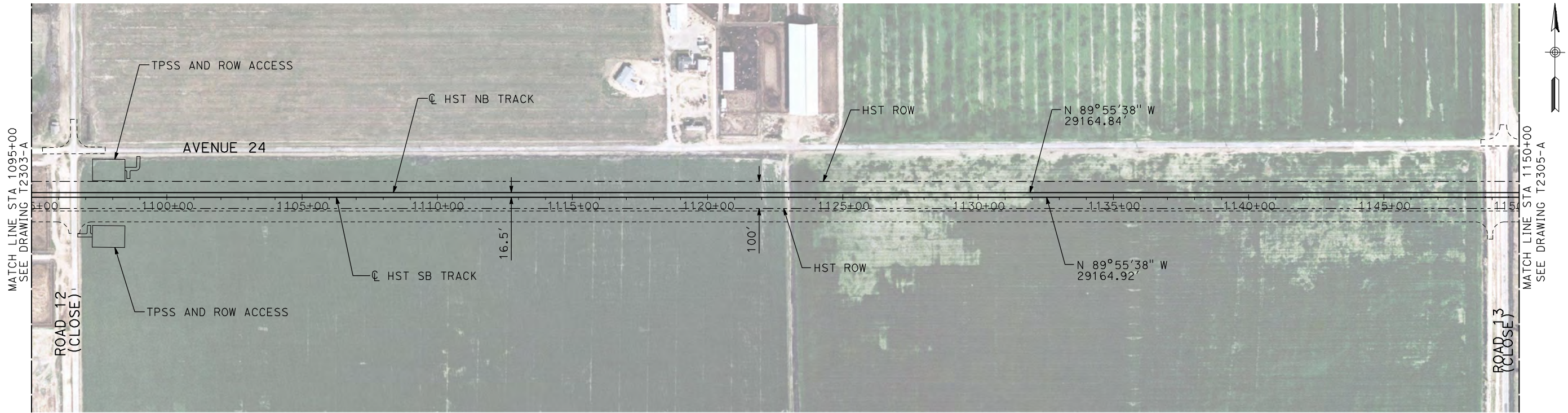
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1040+00 TO STA 1095+00

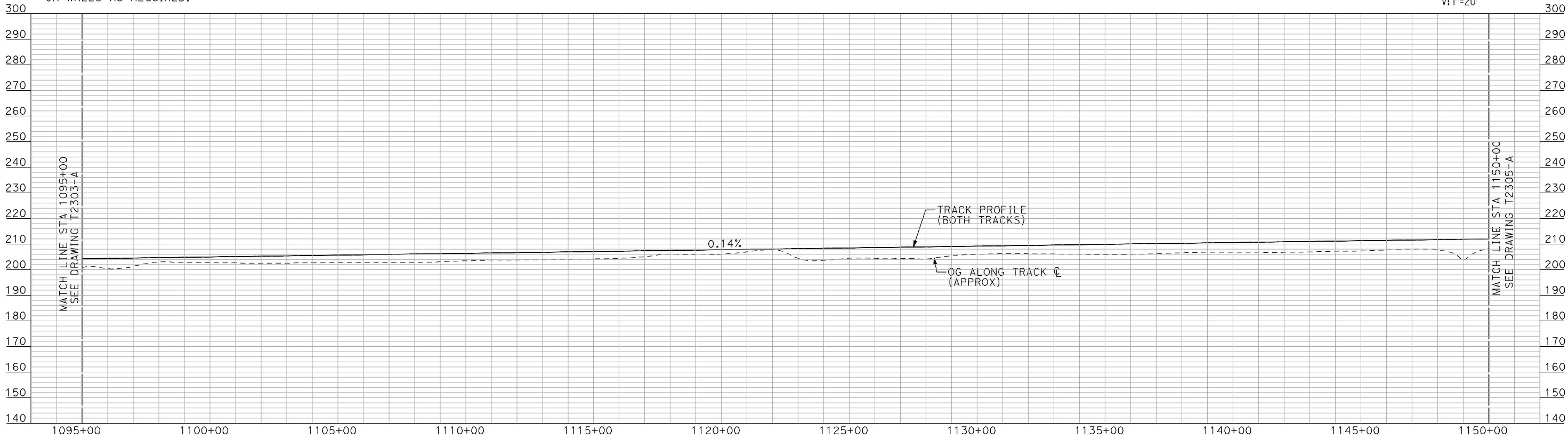
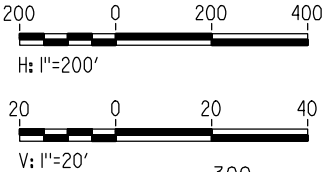
CONTRACT NO.
HSR06-007
DRAWING NO.
T2303-A
SCALE
AS SHOWN
SHEET NO.
OF

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

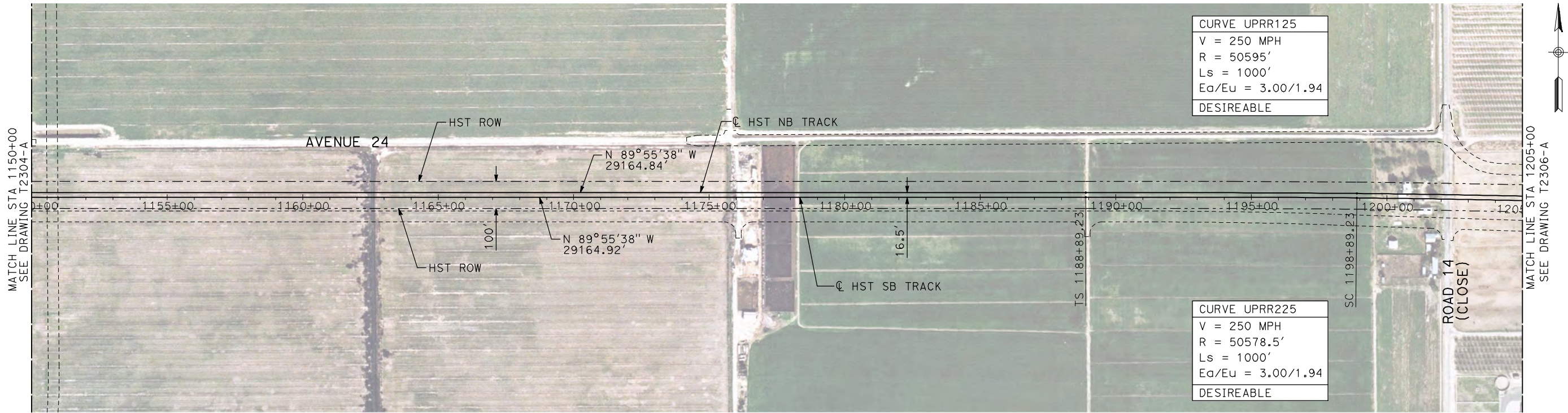
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1095+00 TO STA 1150+00

CONTRACT NO. HSR06-007
DRAWING NO. T2304-A
SCALE AS SHOWN
SHEET NO. ### OF ###

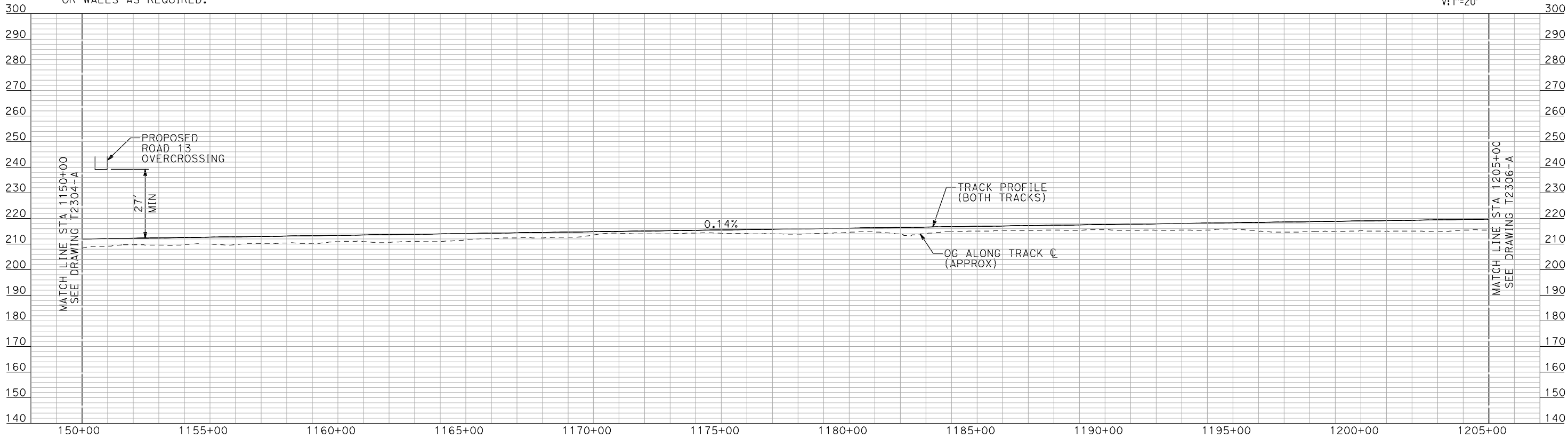
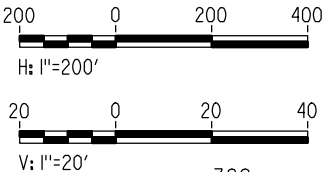
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

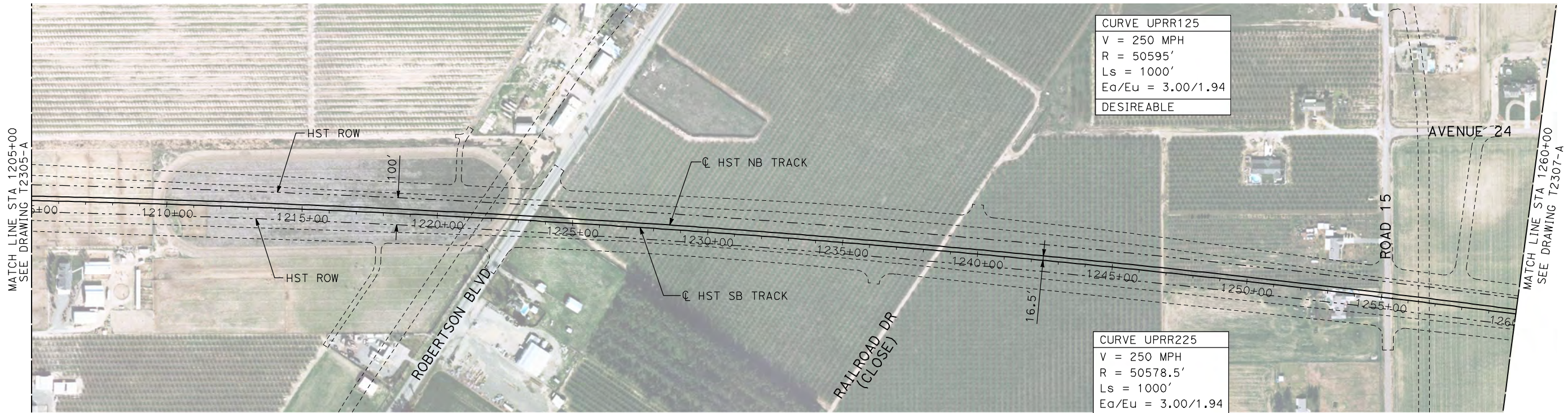
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1150+00 TO STA 1205+00

CONTRACT NO. HSR06-007
DRAWING NO. T2305-A
SCALE AS SHOWN
SHEET NO. ### OF ###

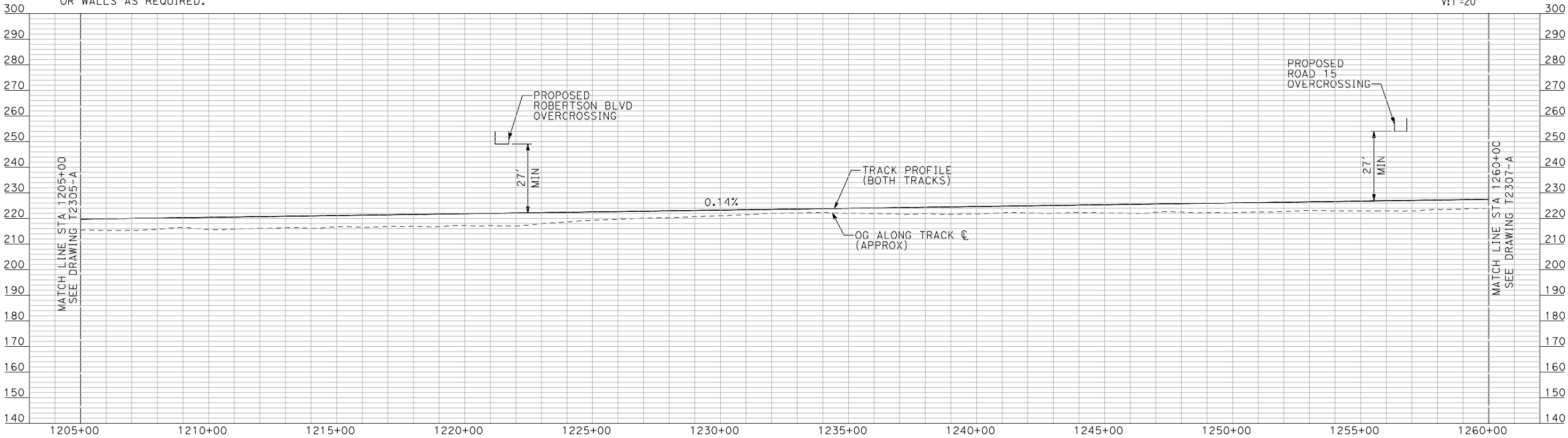
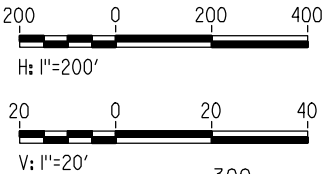
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

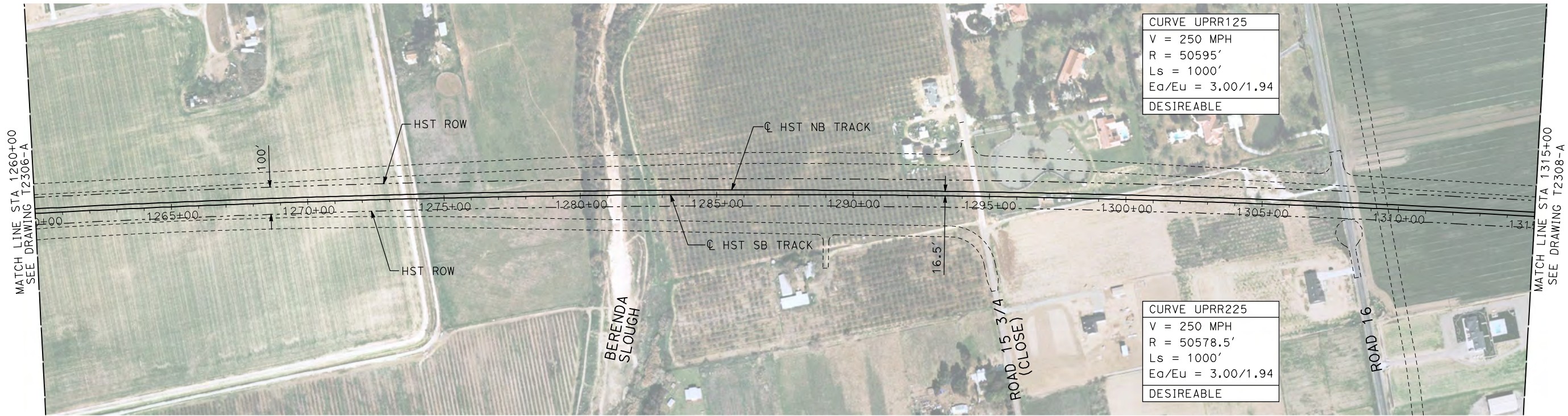
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1205+00 TO STA 1260+00

CONTRACT NO. HSR06-007
DRAWING NO. T2306-A
SCALE AS SHOWN
SHEET NO. ### OF ###

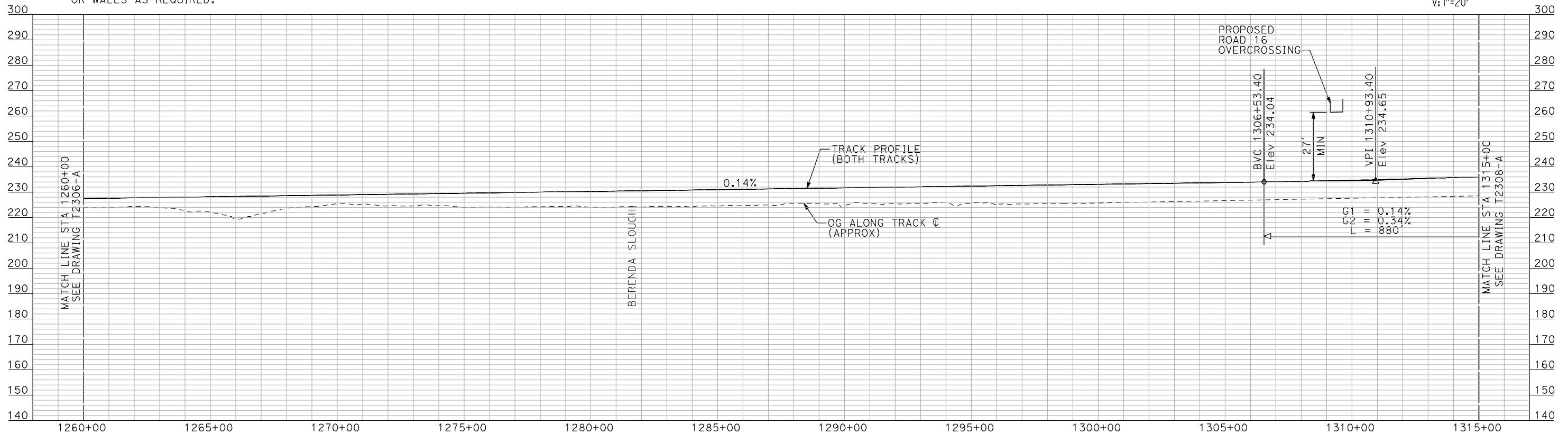
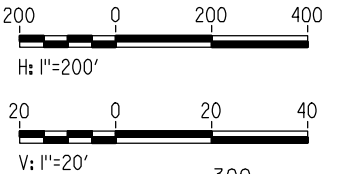
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

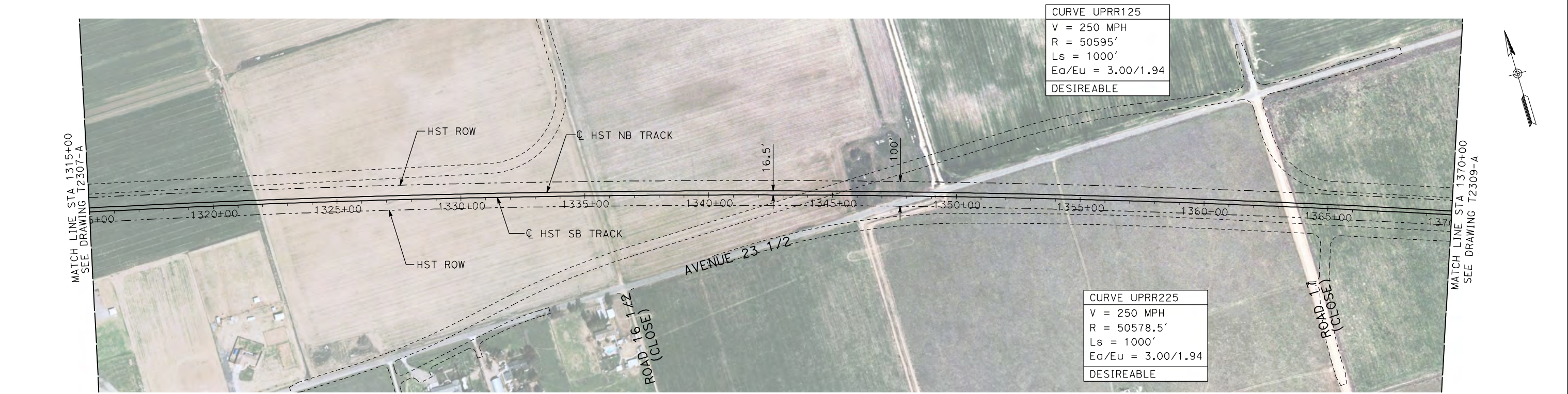


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 ALIGNMENT
AVENUE 24
PLAN AND PROFILE
STA 1260+00 TO STA 1315+00

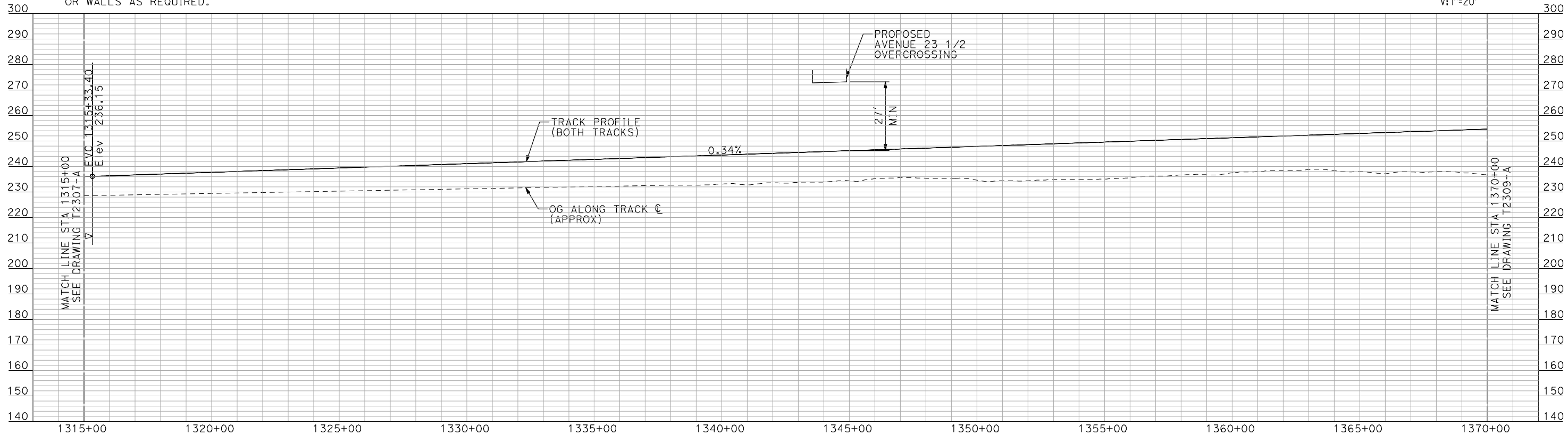
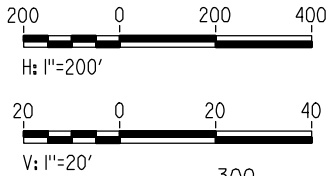
CONTRACT NO. HSR06-007
DRAWING NO. T2307-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

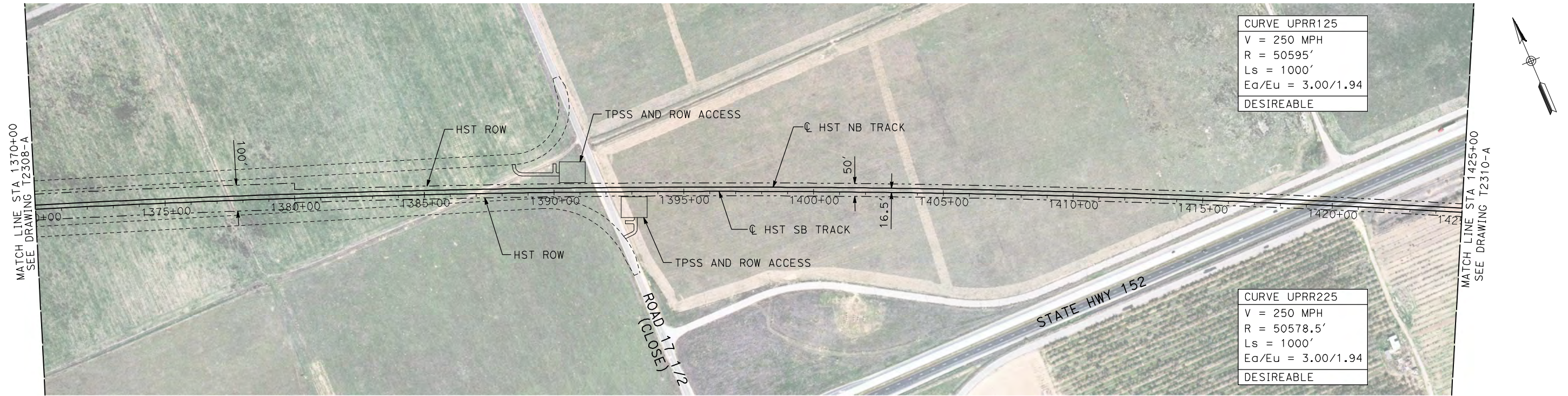


PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

					DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL	AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811		CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR/SR 99 MAIN LINE AVENUE 24 PLAN AND PROFILE STA 1315+00 TO STA 1370+00	CONTRACT NO. HSR06-007
					DRAWN BY H. SULLIVAN					DRAWING NO. T2308-A
					CHECKED BY A. BOONE					SCALE AS SHOWN
					IN CHARGE A. BOONE					SHEET NO. ### OF ###
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 07/20/2011	NOT FOR CONSTRUCTION	CH2M HILL		

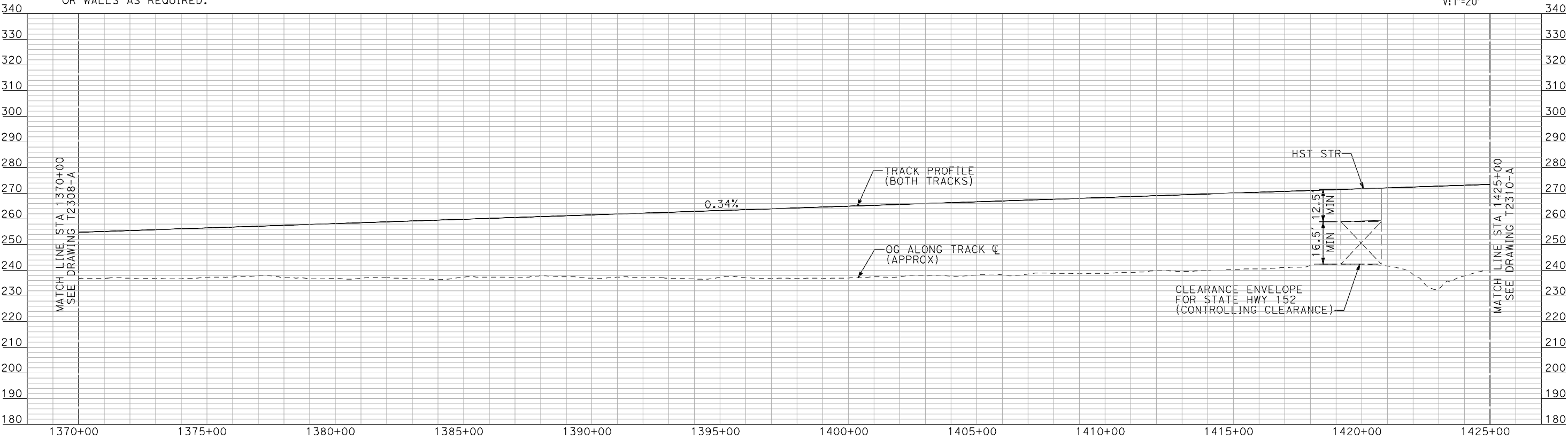
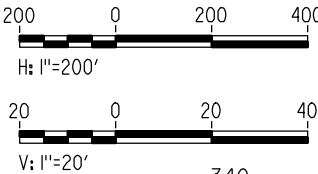
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

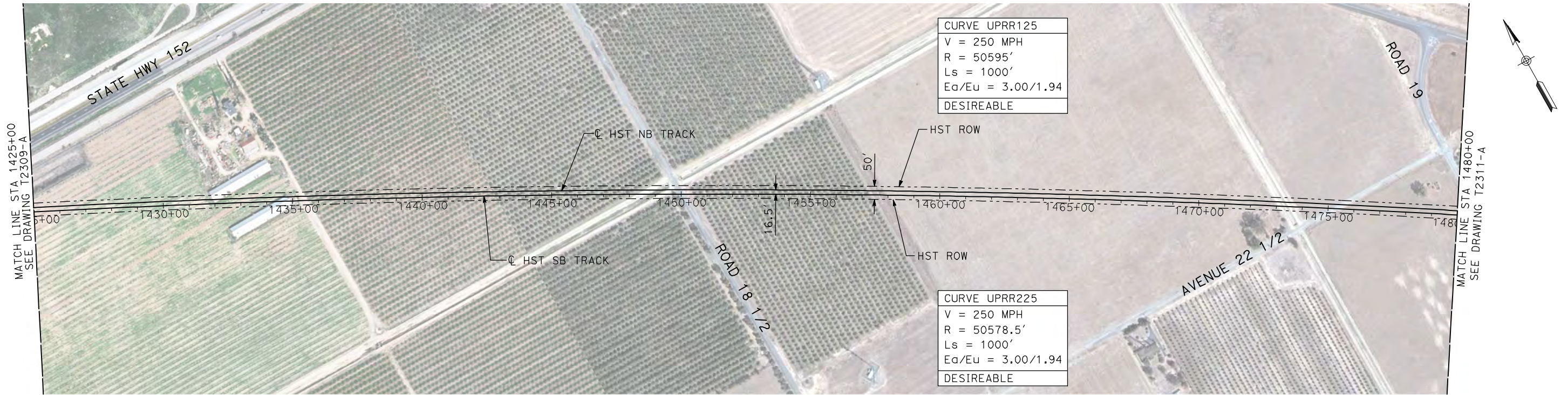
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1370+00 TO STA 1425+00

CONTRACT NO. HSR06-007
DRAWING NO. T2309-A
SCALE AS SHOWN
SHEET NO. ### OF ###

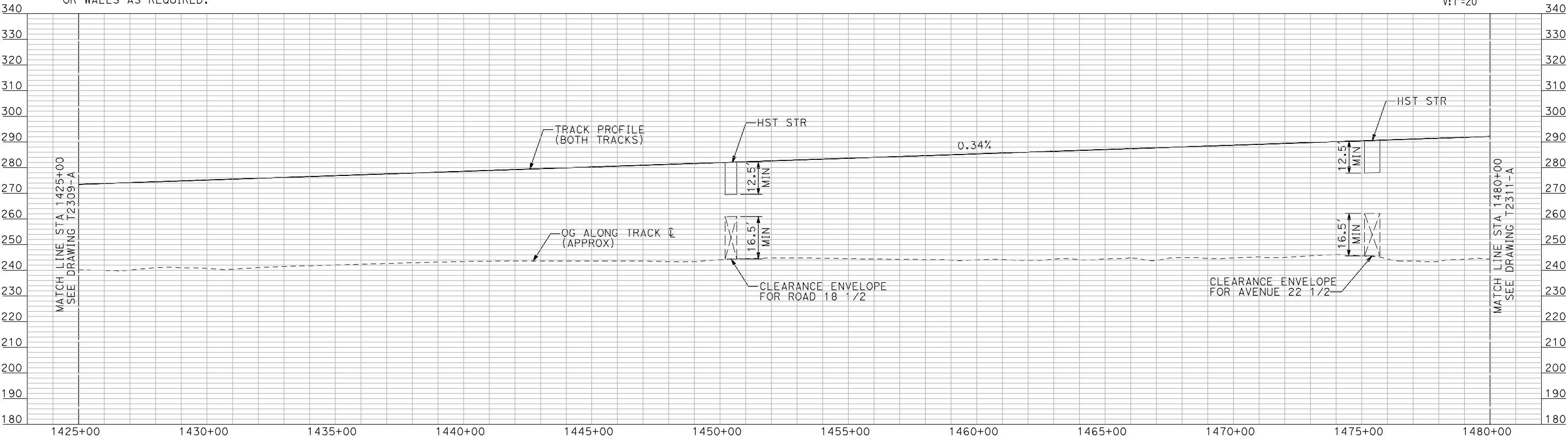
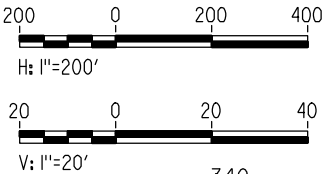
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

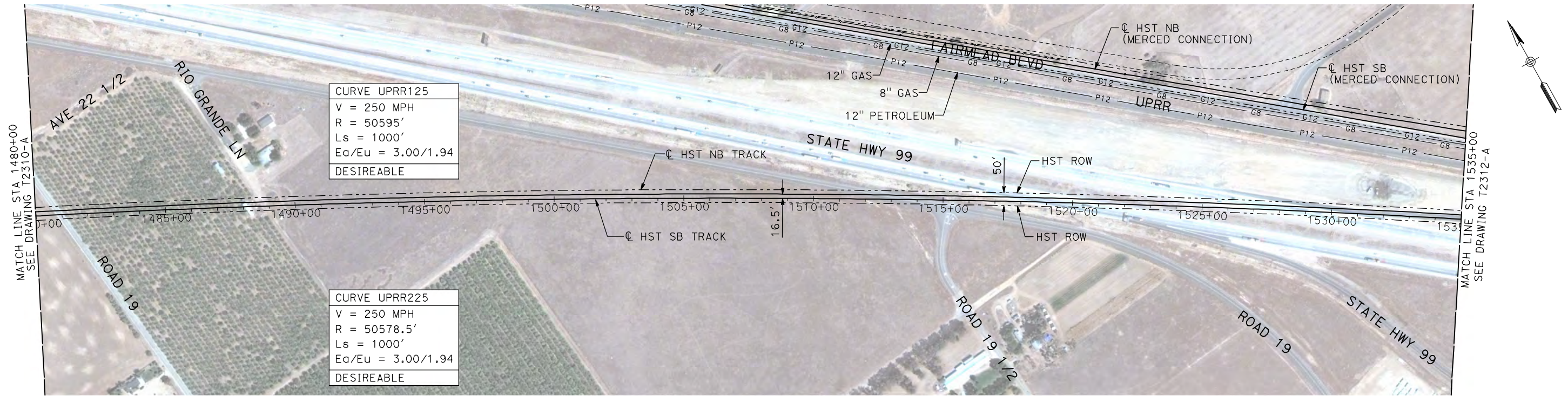
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1425+00 TO STA 1480+00

CONTRACT NO. HSR06-007
DRAWING NO. T2310-A
SCALE AS SHOWN
SHEET NO. ### OF ###

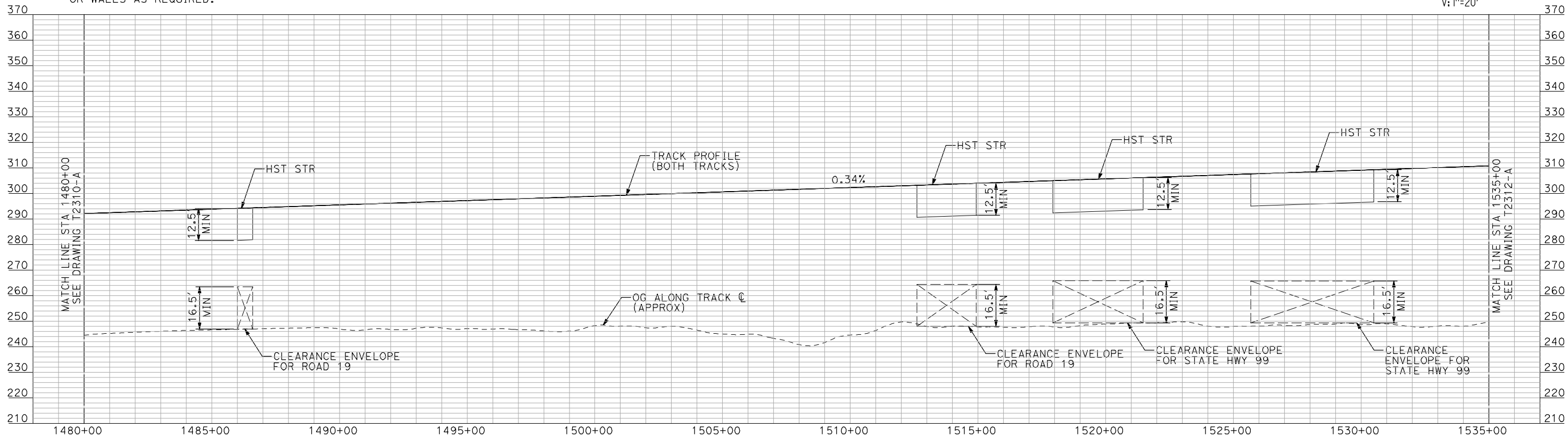
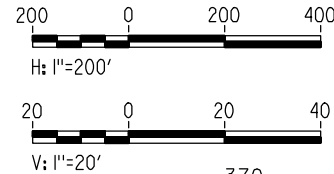
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

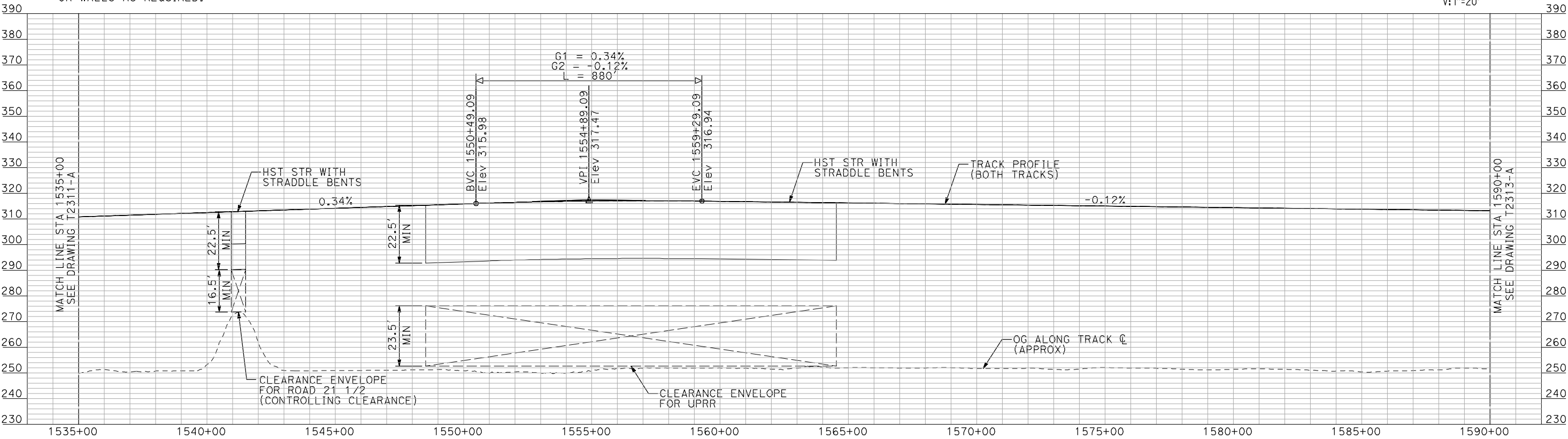
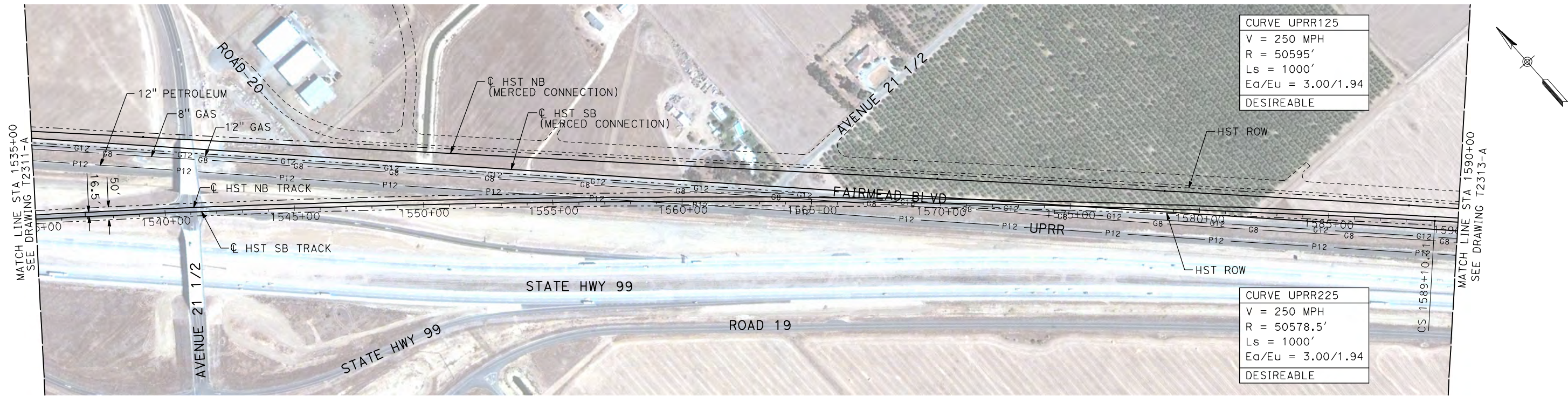
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1480+00 TO STA 1535+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2311-A
SCALE
AS SHOWN
SHEET NO.
OF

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PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

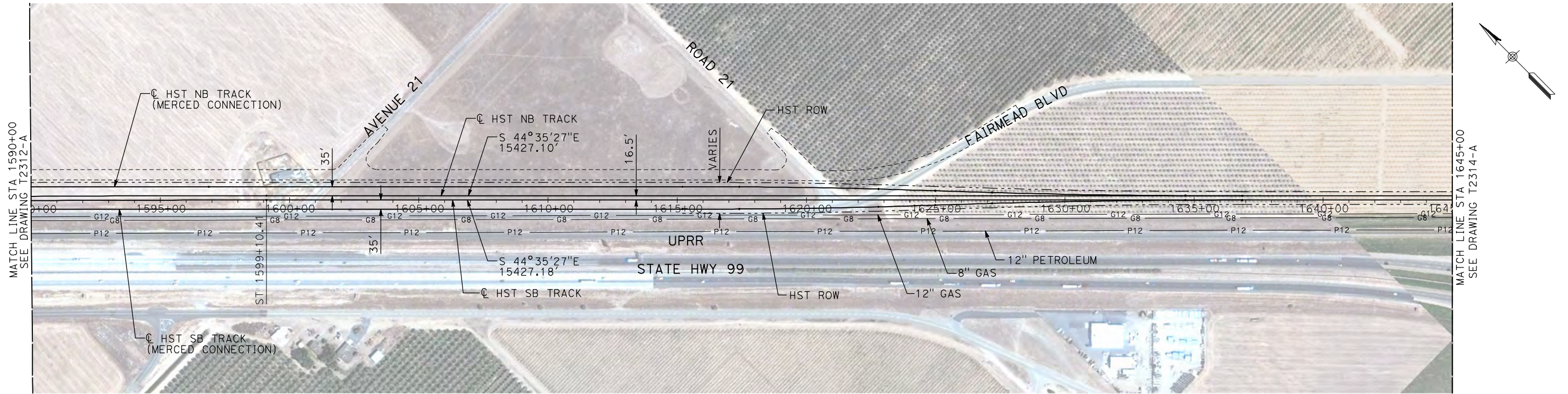
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1535+00 TO STA 1590+00

CONTRACT NO. HSR06-007
DRAWING NO. T2312-A
SCALE AS SHOWN
SHEET NO. ### OF ###

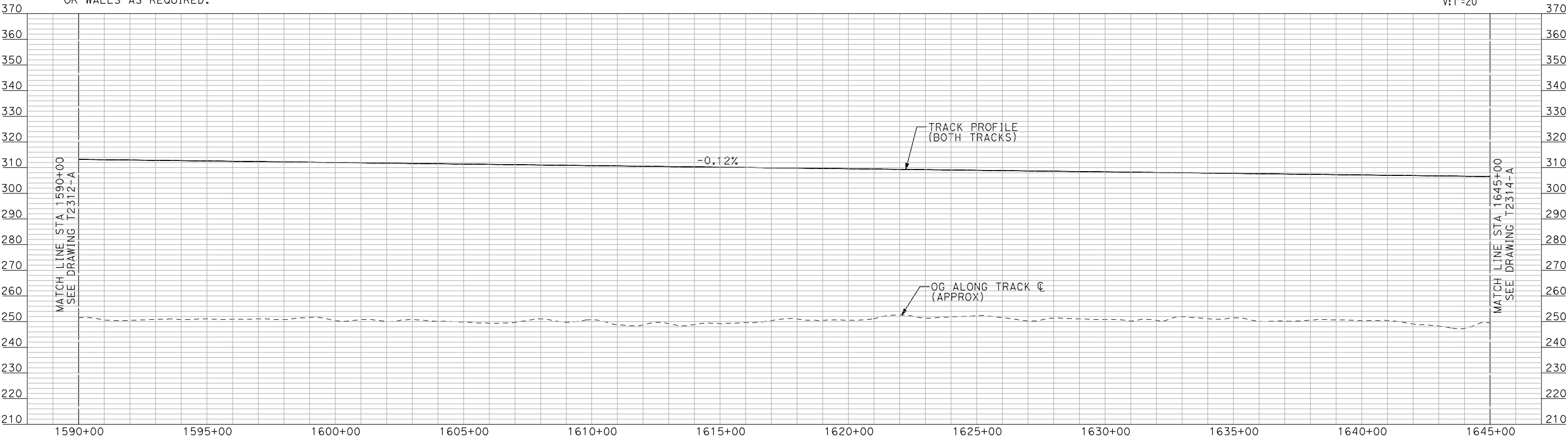
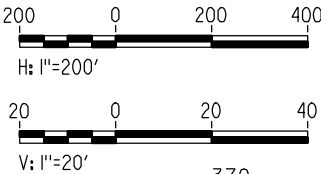
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

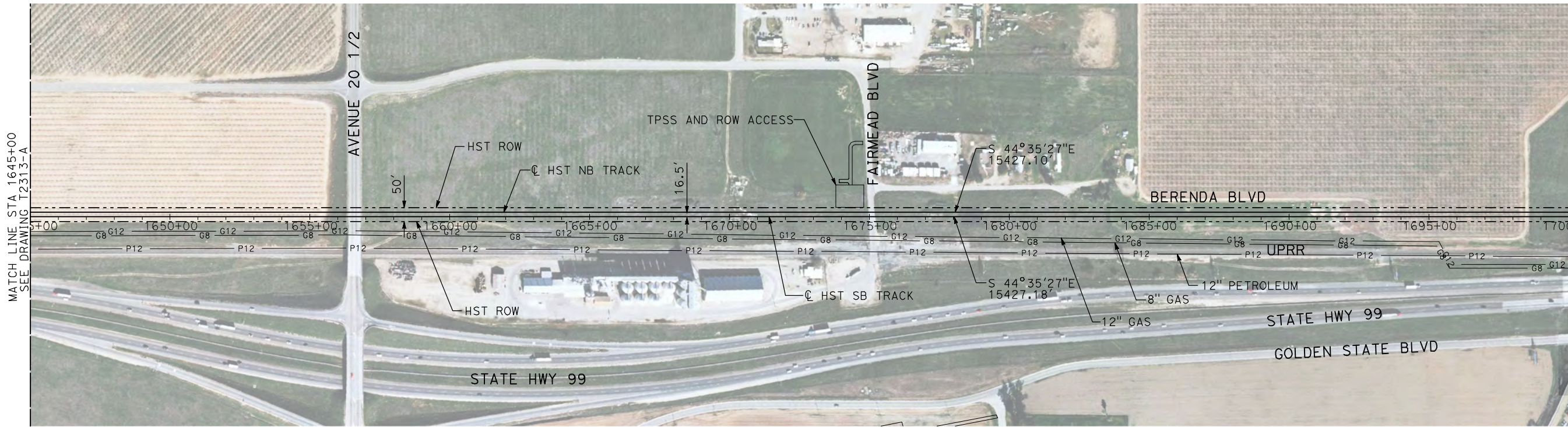
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1590+00 TO STA 1645+00

CONTRACT NO. HSR06-007
DRAWING NO. T2313-A
SCALE AS SHOWN
SHEET NO. ### OF ###

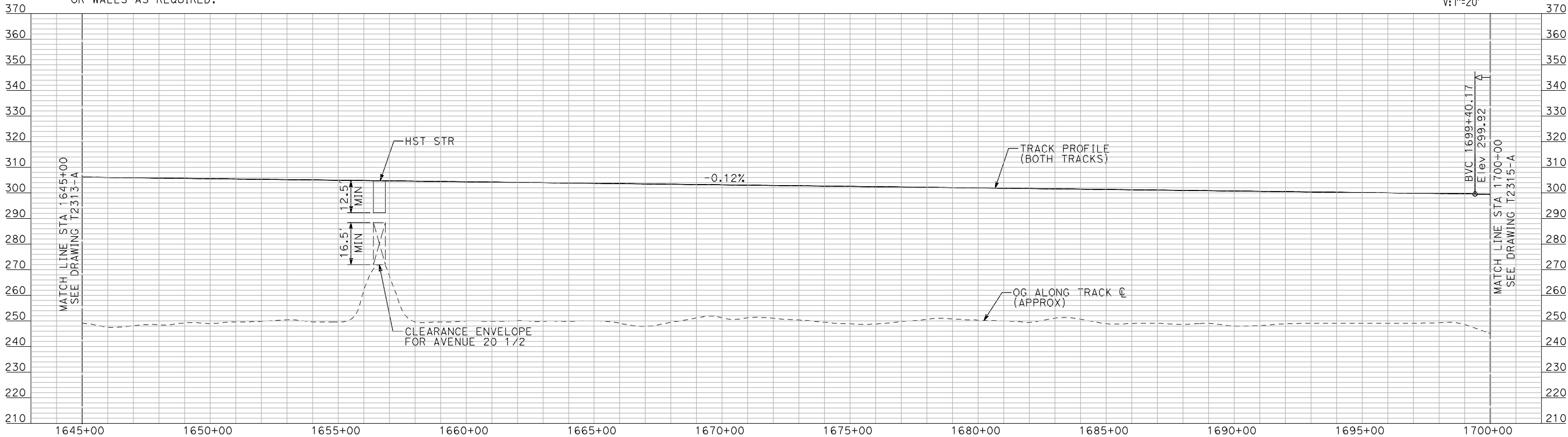
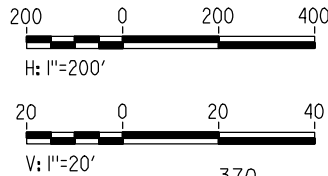
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

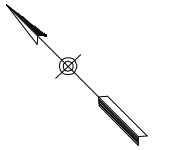
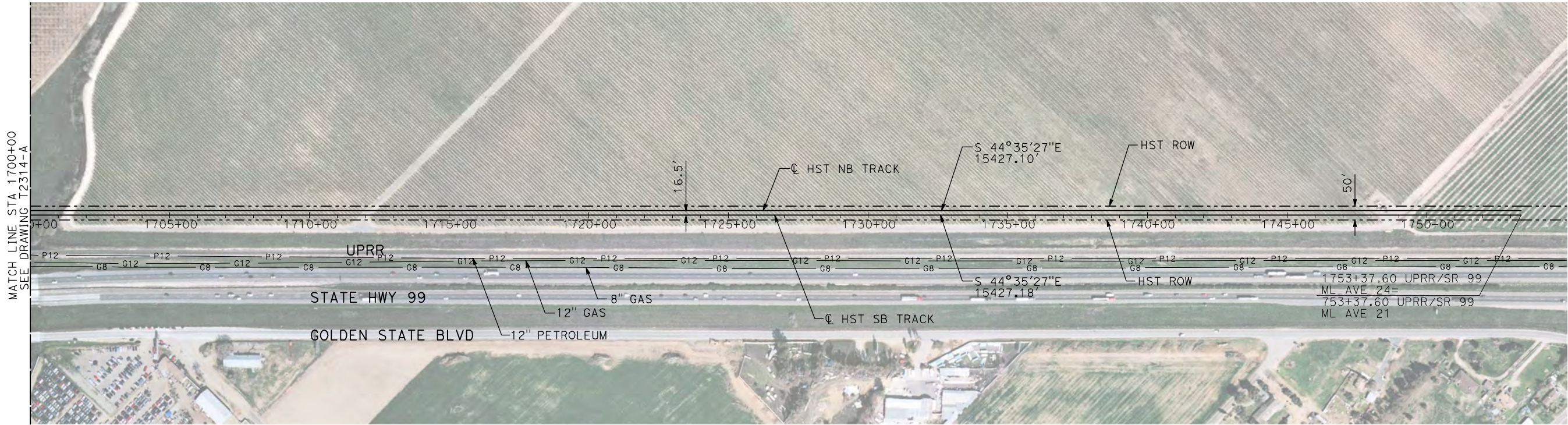


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1645+00 TO STA 1700+00

CONTRACT NO. HSR06-007
DRAWING NO. T2314-A
SCALE AS SHOWN
SHEET NO. ### OF ###

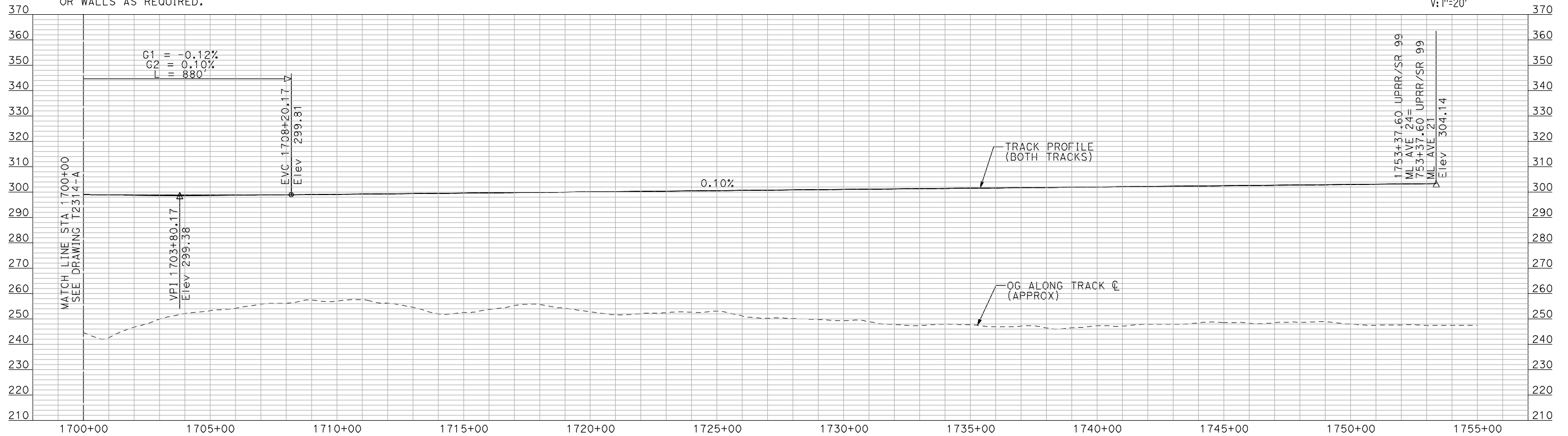
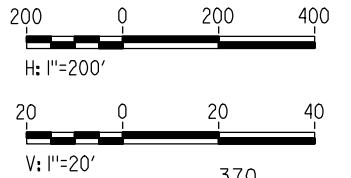
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

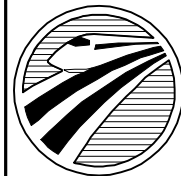
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

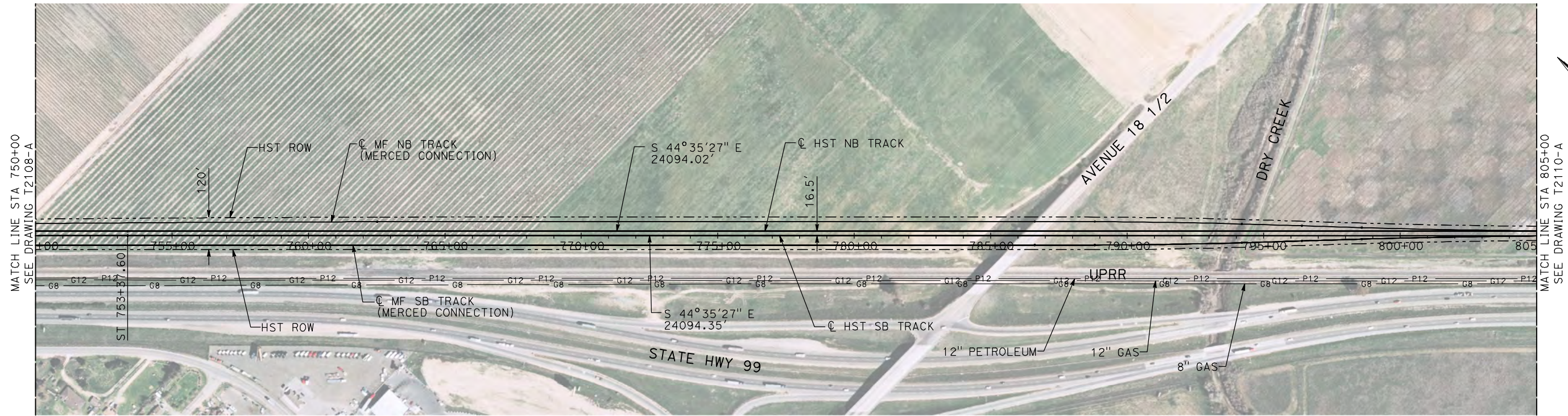


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1700+00 TO STA 1753+37.60

CONTRACT NO. HSR06-007
DRAWING NO. T2315-A
SCALE AS SHOWN
SHEET NO. ### OF ###

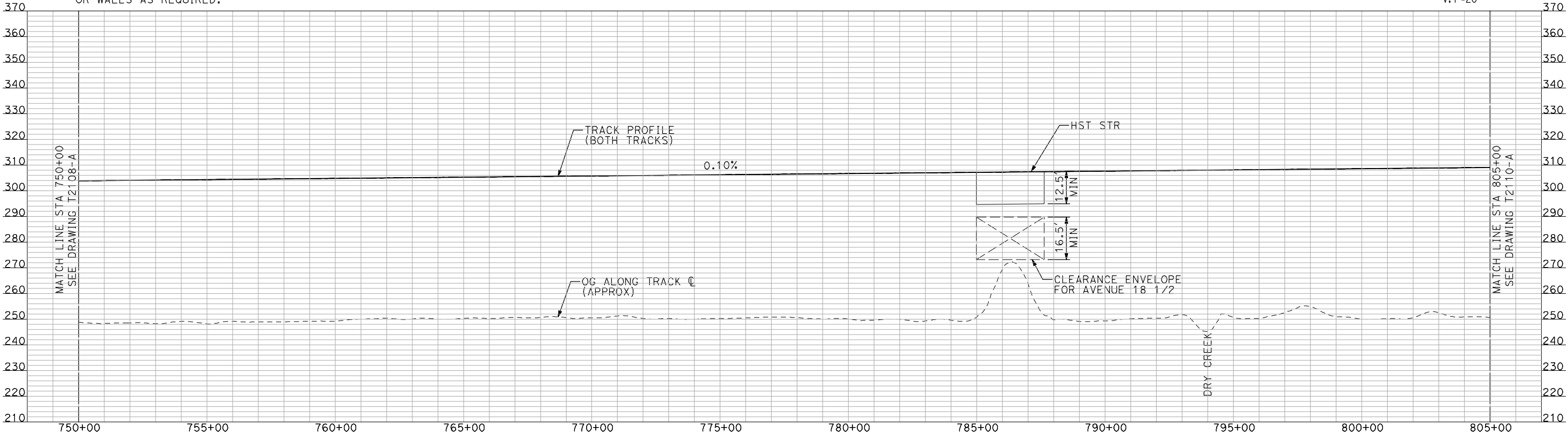
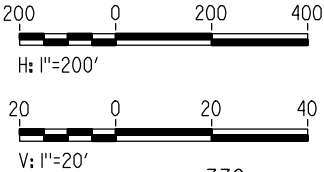
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

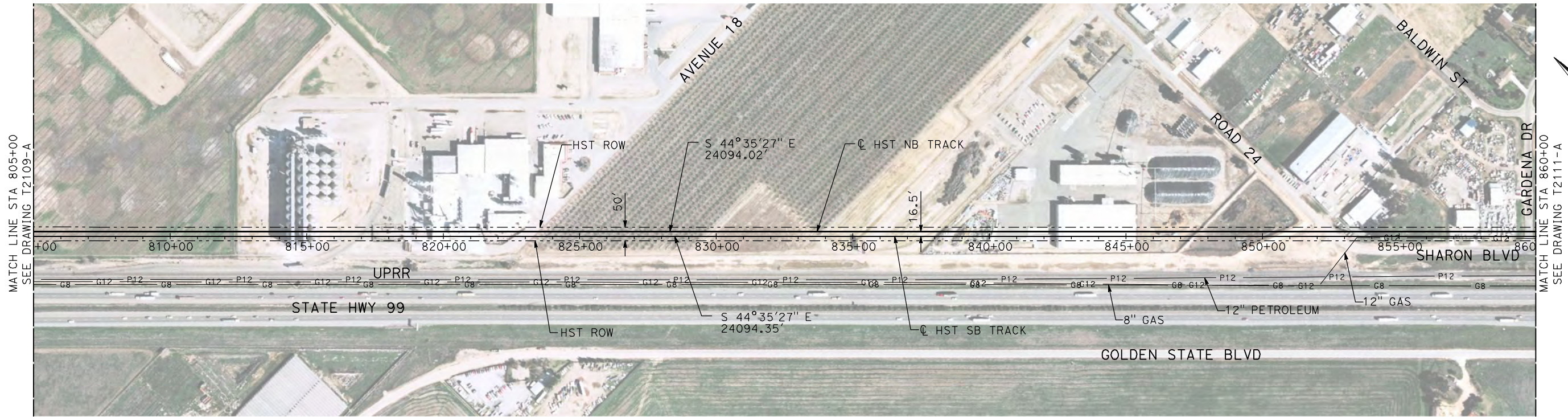


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 750+00 TO STA 805+00

CONTRACT NO. HSR06-007
DRAWING NO. T2109-A
SCALE AS SHOWN
SHEET NO. ### OF ###

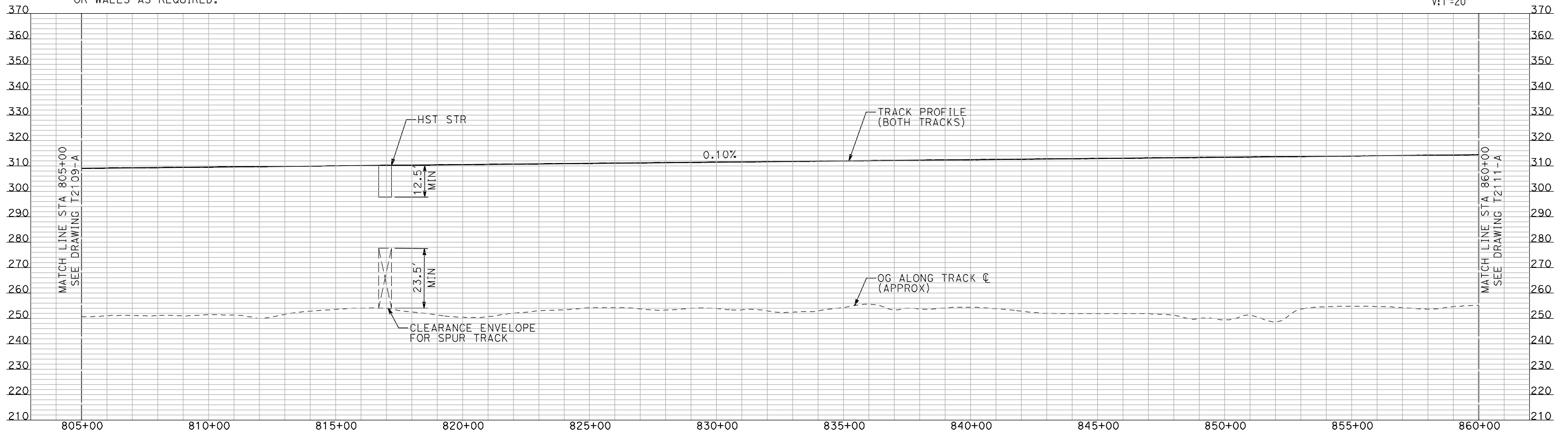
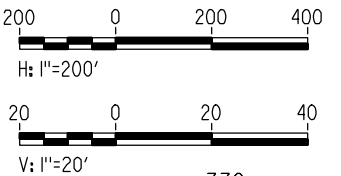
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

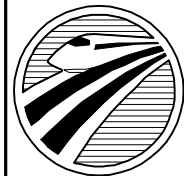
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

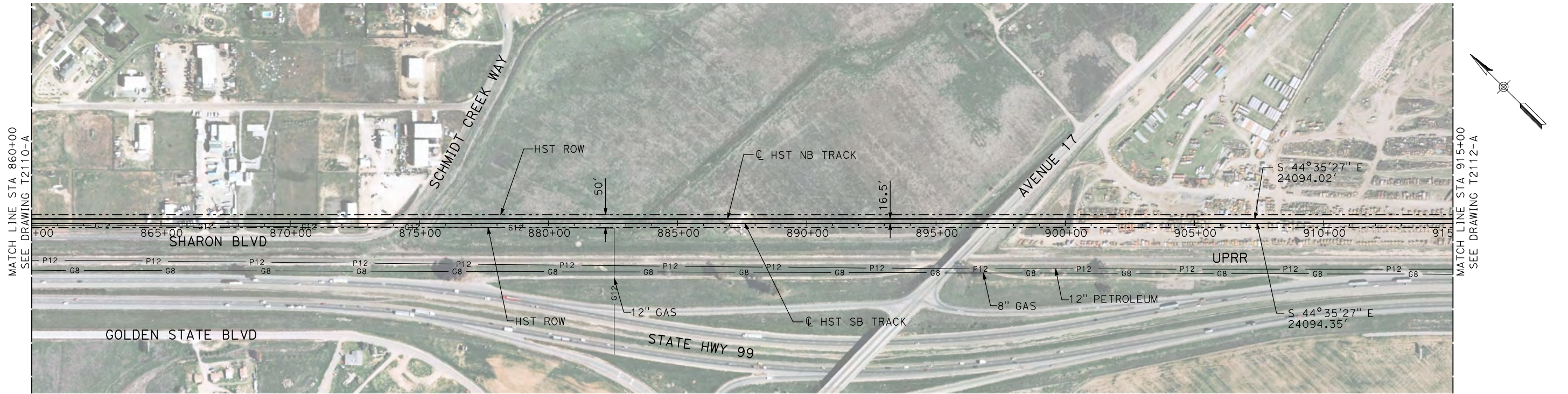
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 805+00 TO STA 860+00

CONTRACT NO. HSR06-007
DRAWING NO. T2110-A
SCALE AS SHOWN
SHEET NO. ### OF ###

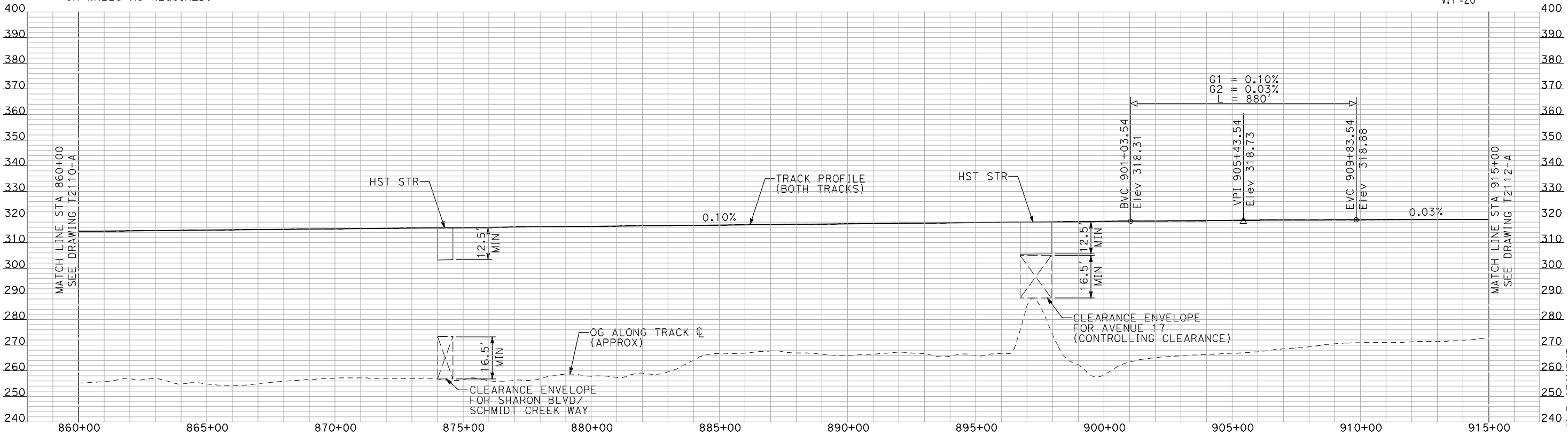
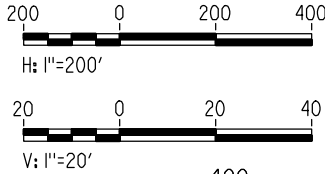
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

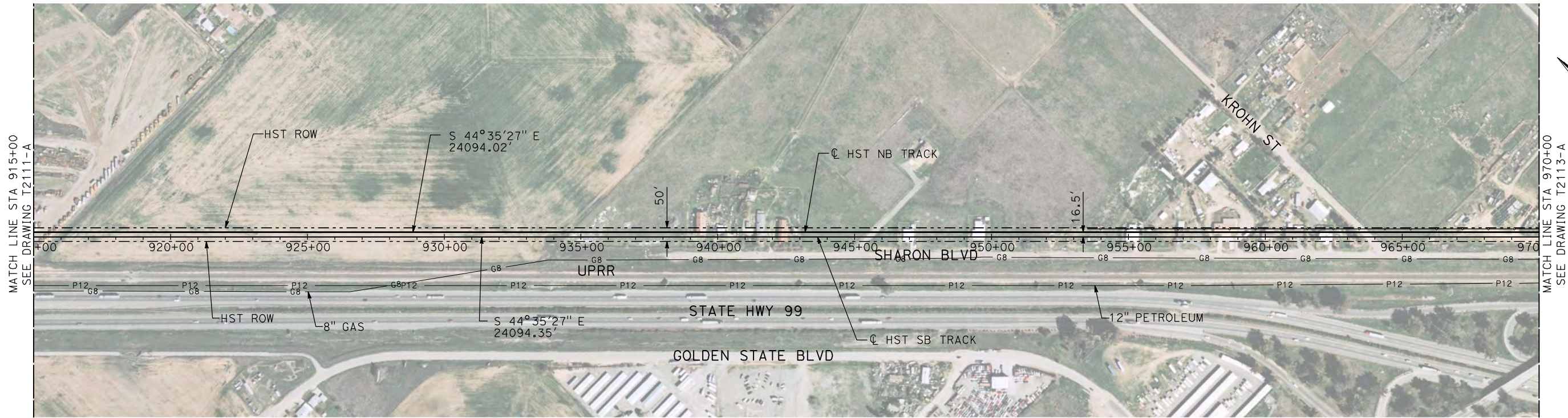


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 860+00 TO STA 915+00

CONTRACT NO. HSR06-007
DRAWING NO. T2111-A
SCALE AS SHOWN
SHEET NO. ### OF ###

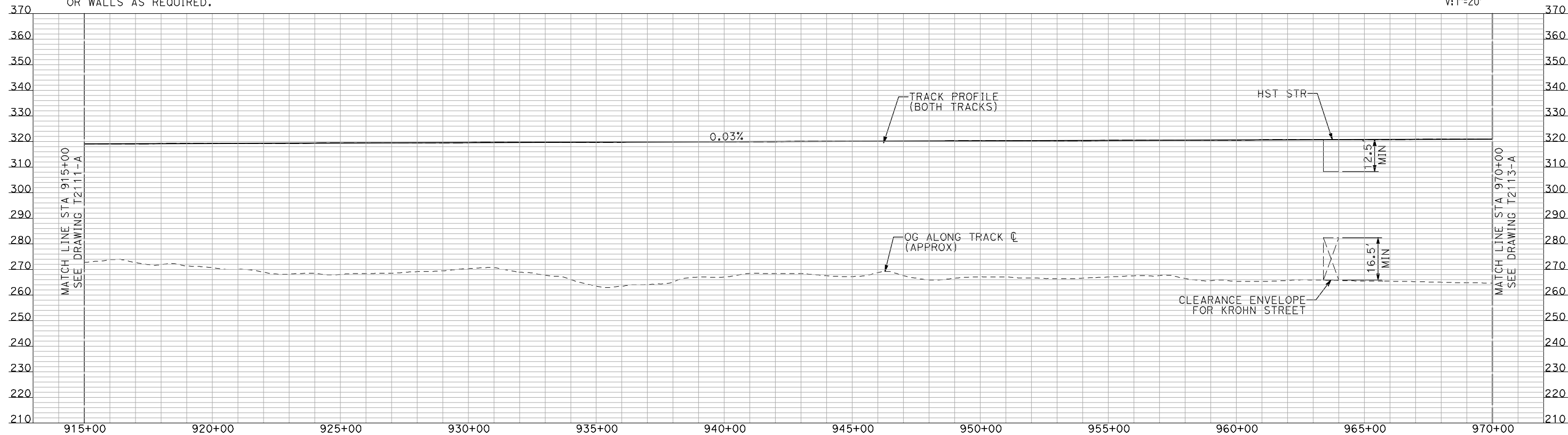
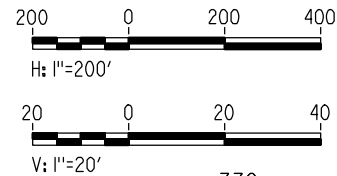
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



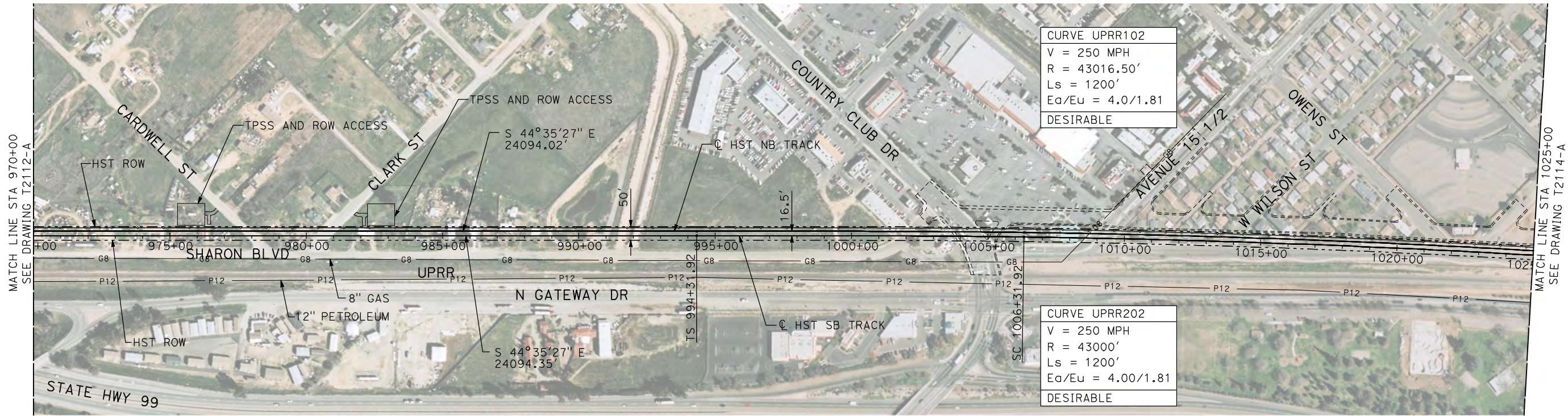
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 915+00 TO STA 970+00

CONTRACT NO. HSR06-007
DRAWING NO. T2112-A
SCALE AS SHOWN
SHEET NO. ### OF ###

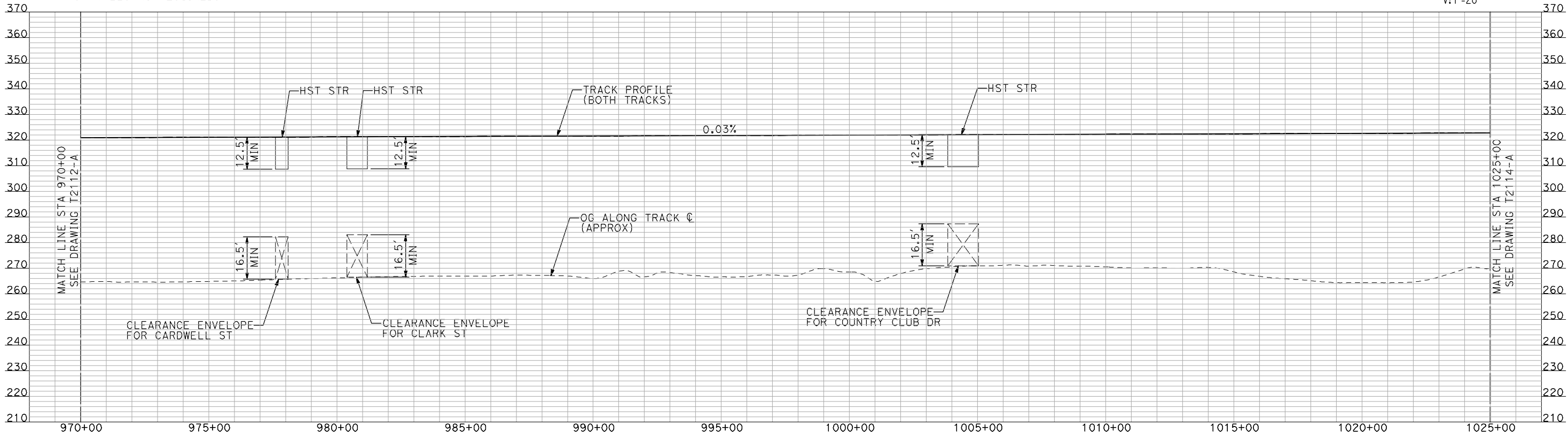
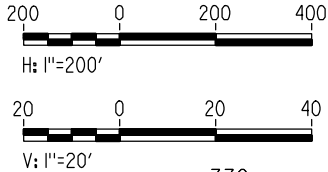
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



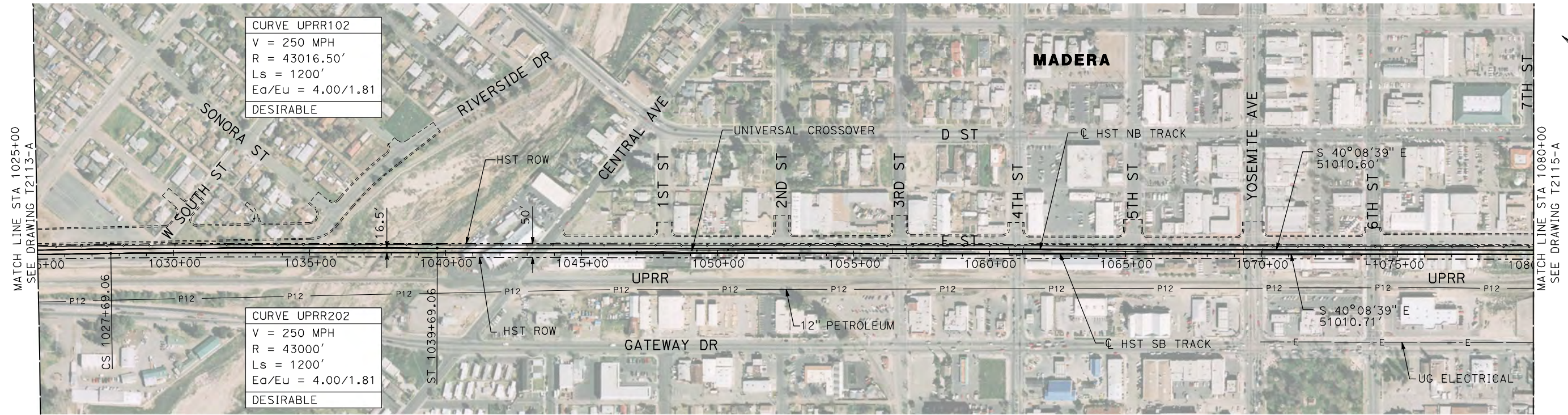
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 970+00 TO STA 1025+00

CONTRACT NO. HSR06-007
DRAWING NO. T2113-A
SCALE AS SHOWN
SHEET NO. ### OF ###

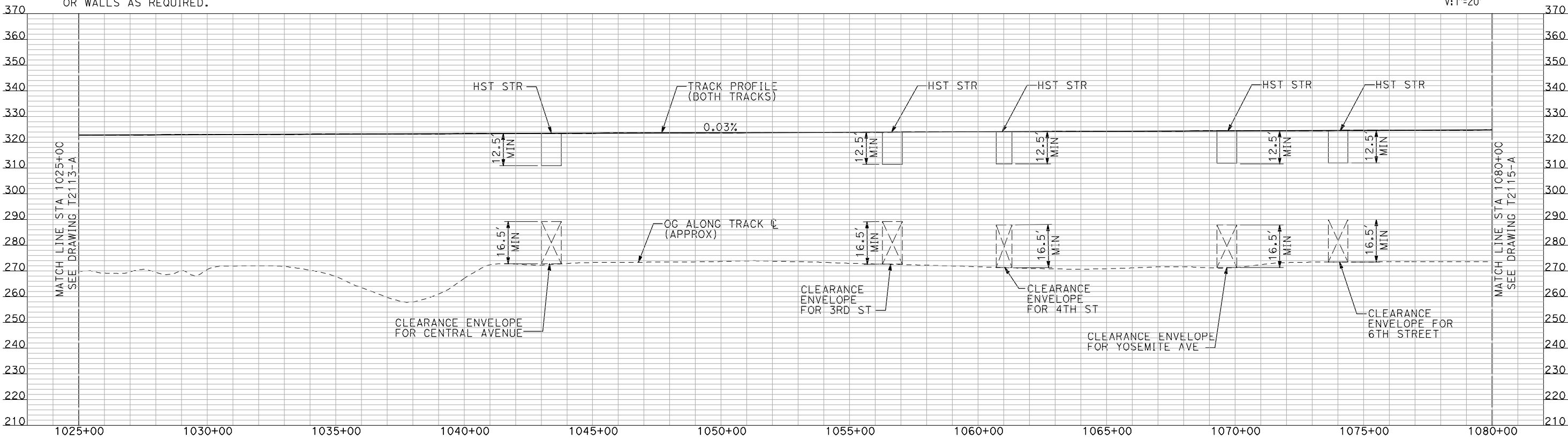
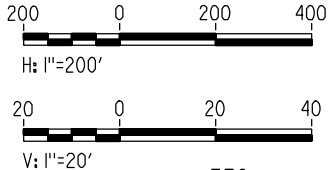
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

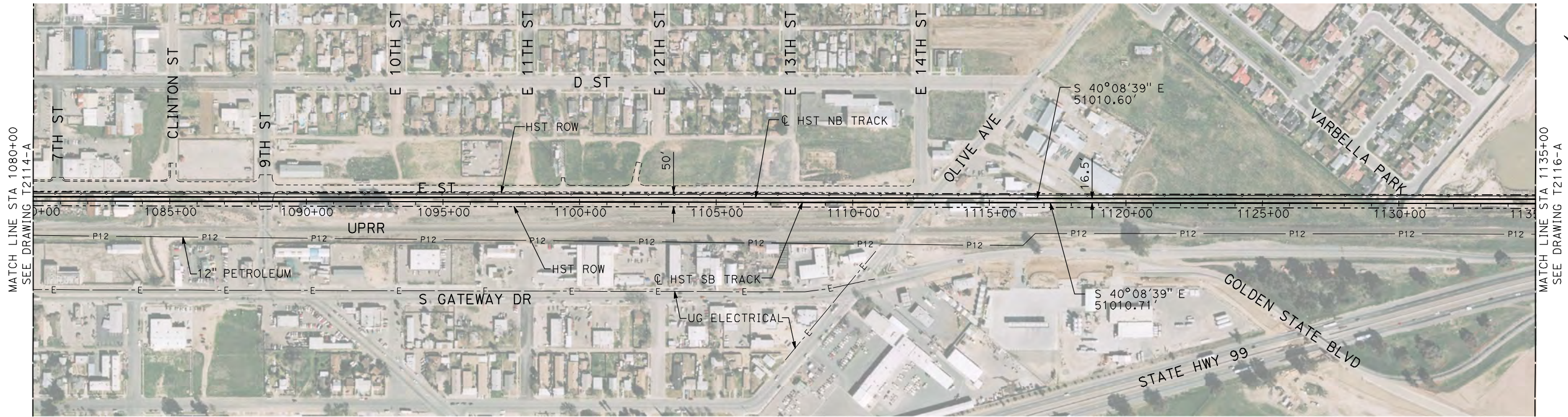


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1025+00 TO STA 1080+00

CONTRACT NO. HSR06-007
DRAWING NO. T2114-A
SCALE AS SHOWN
SHEET NO. ### OF ###

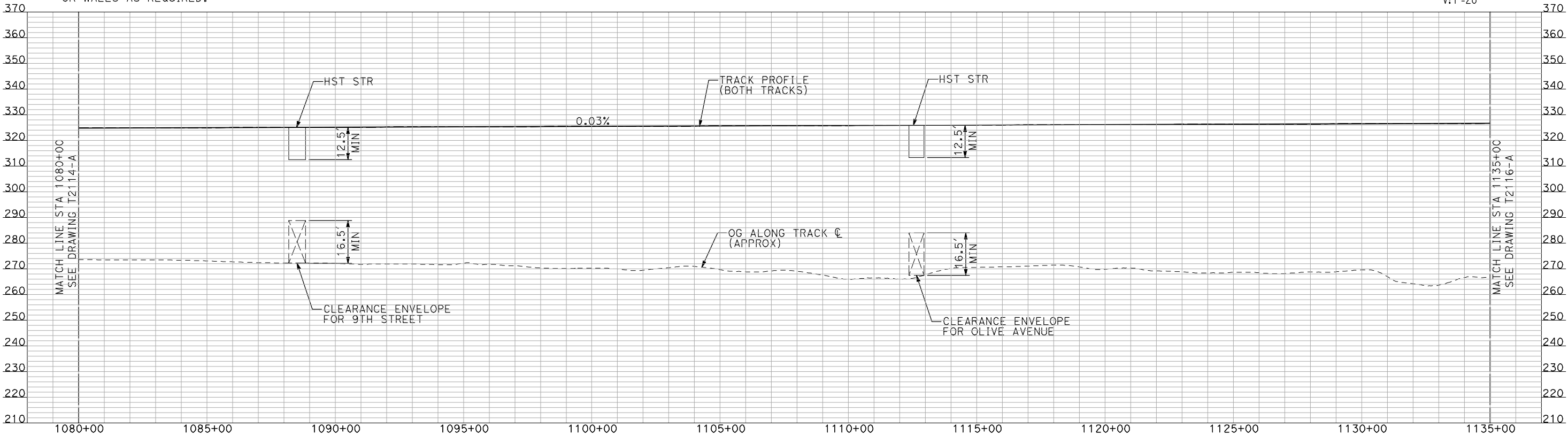
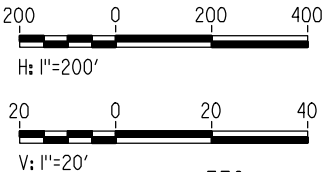
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

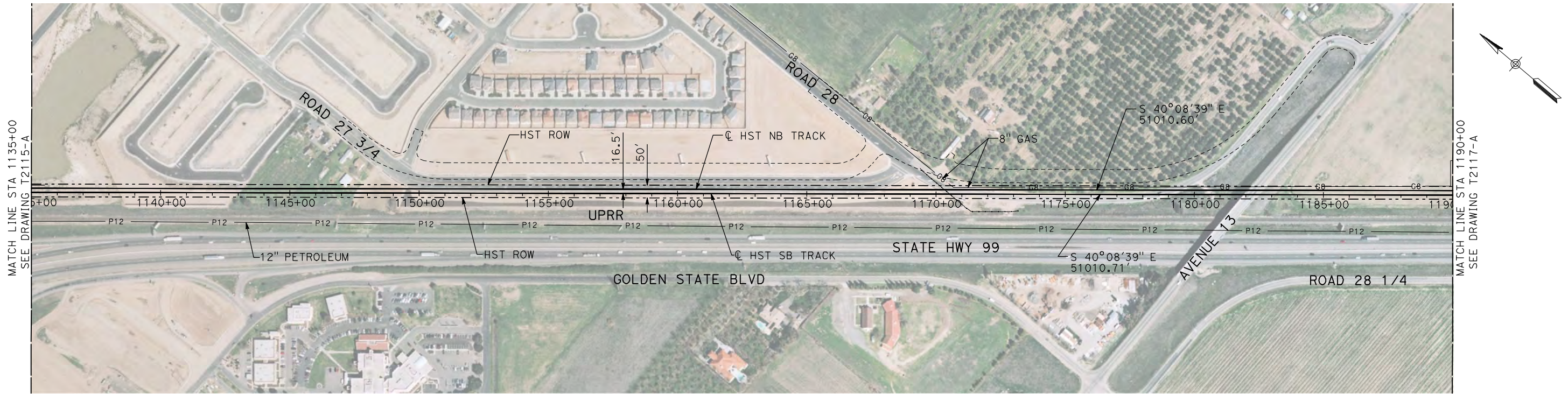


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1080+00 TO STA 1135+00

CONTRACT NO. HSR06-007
DRAWING NO. T2115-A
SCALE AS SHOWN
SHEET NO. ### OF ###

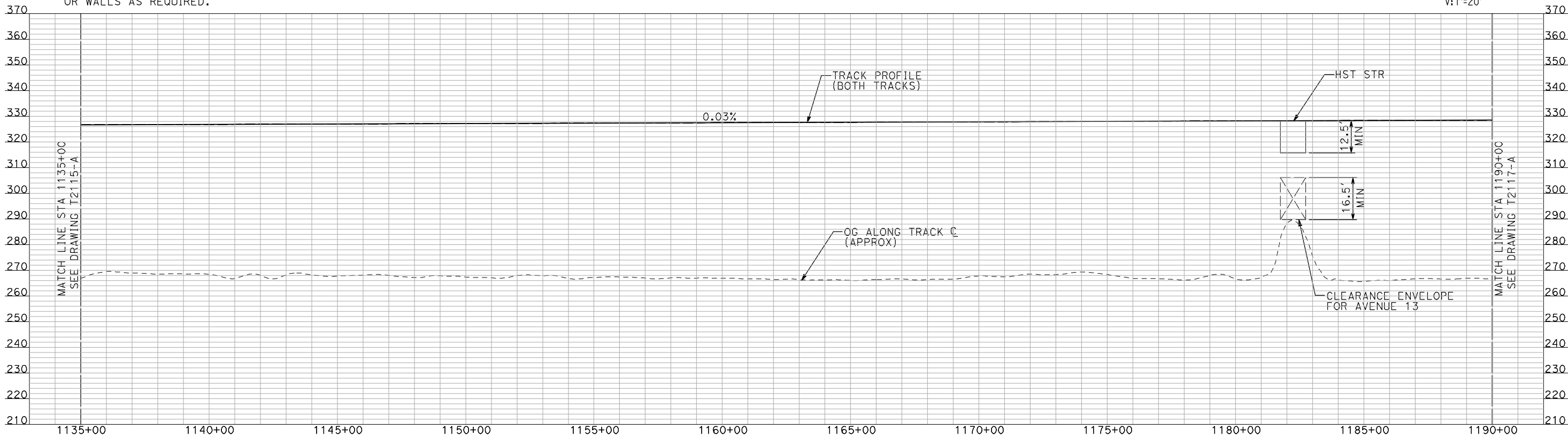
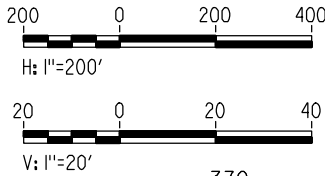
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL

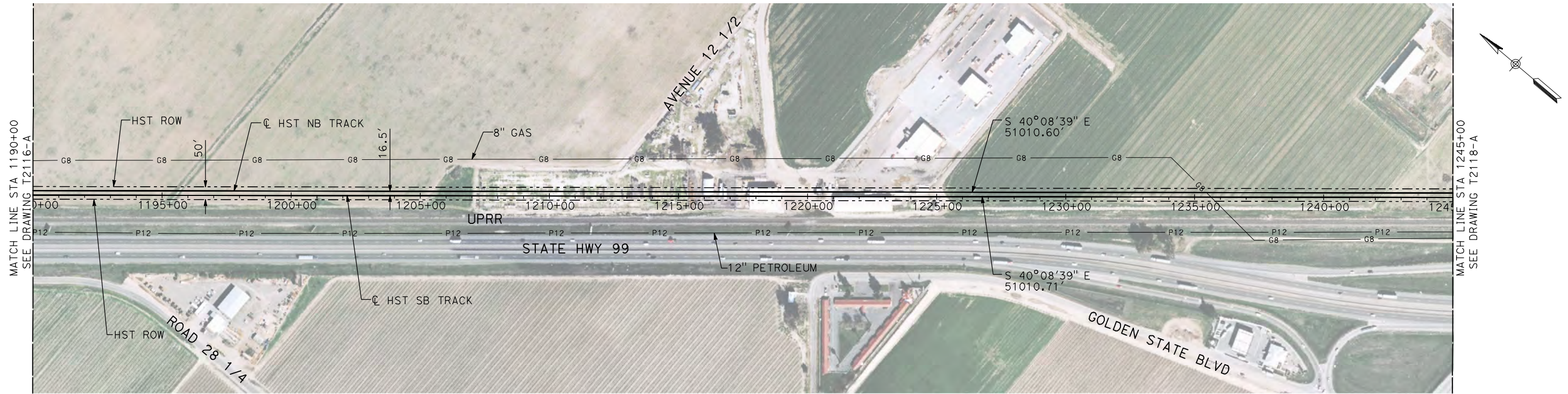


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1135+00 TO STA 1190+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2116-A
SCALE
AS SHOWN
SHEET NO.
OF

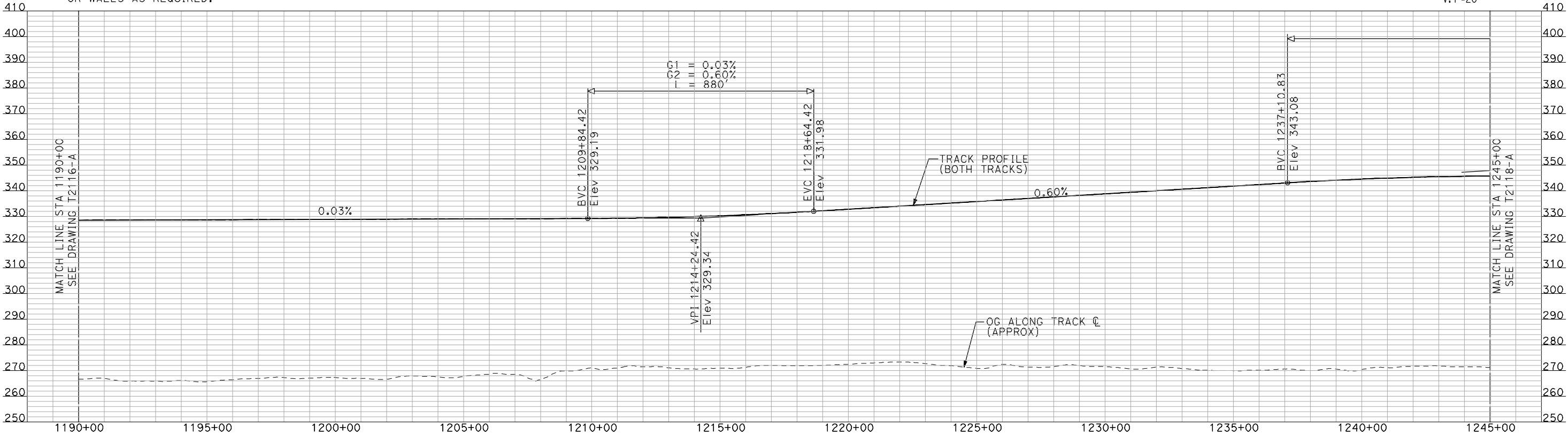
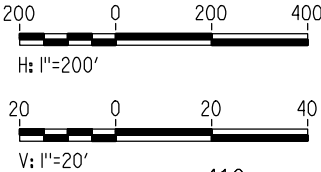
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET 15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



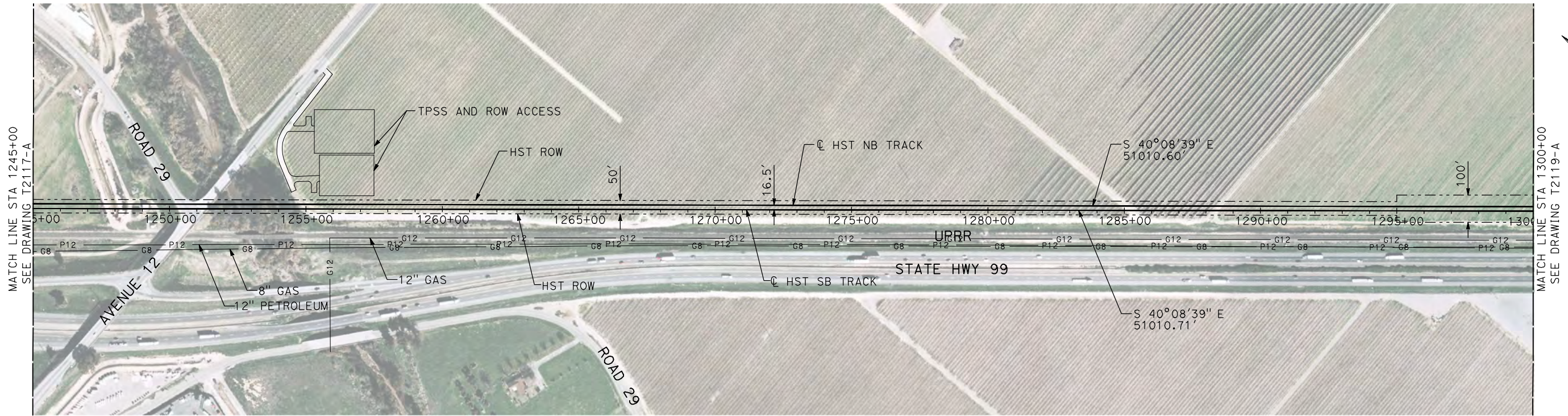
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1190+00 TO STA 1245+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2117-A
SCALE
AS SHOWN
SHEET NO.
OF

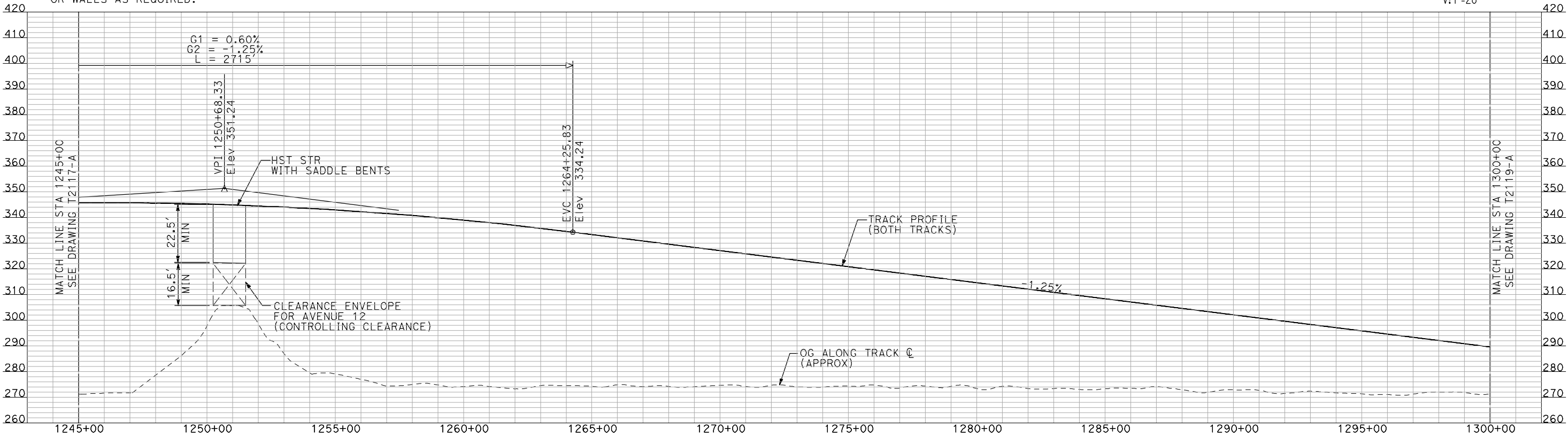
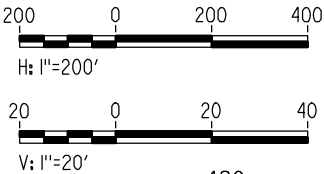
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
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DATE 07/20/2011

RECORD SET
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SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



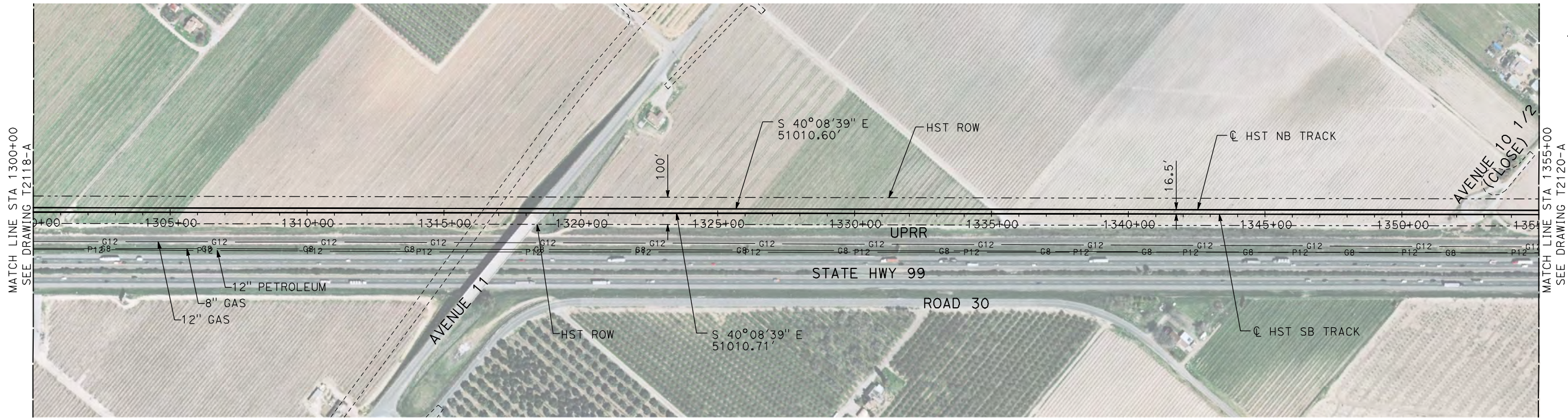
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1245+00 TO STA 1300+00

CONTRACT NO. HSR06-007
DRAWING NO. T2118-A
SCALE AS SHOWN
SHEET NO. ### OF ###

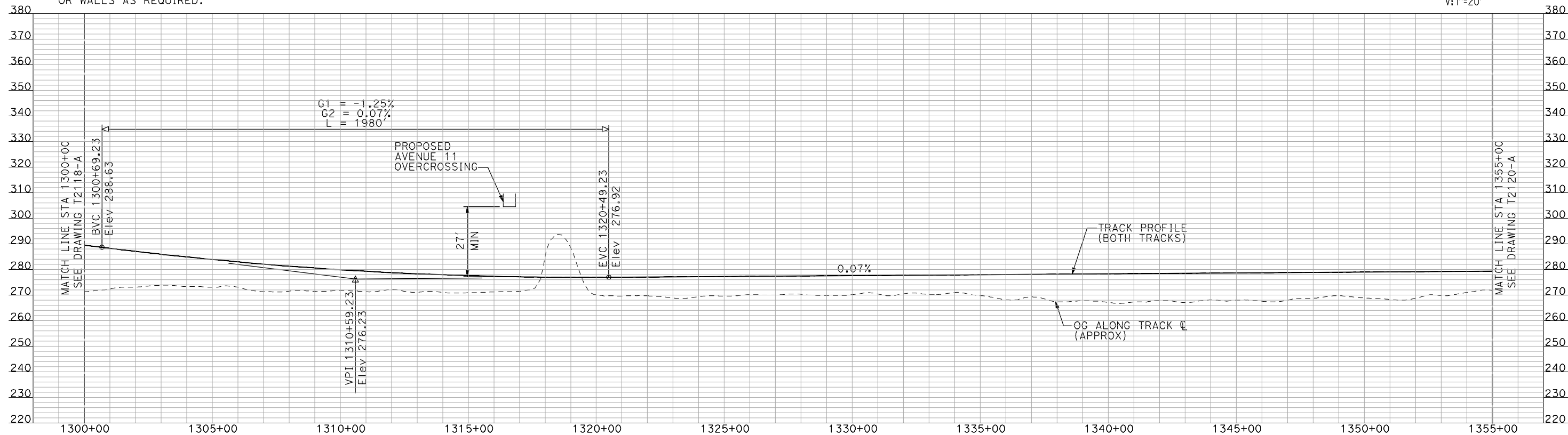
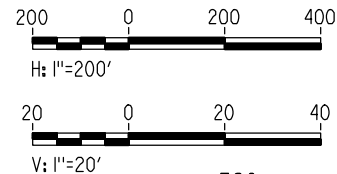
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NOTES:

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PLAN



PROFILE

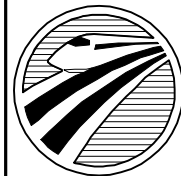
"SEE T3000-T3017 DRAWINGS FOR
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
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DATE 07/20/2011

RECORD SET
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SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

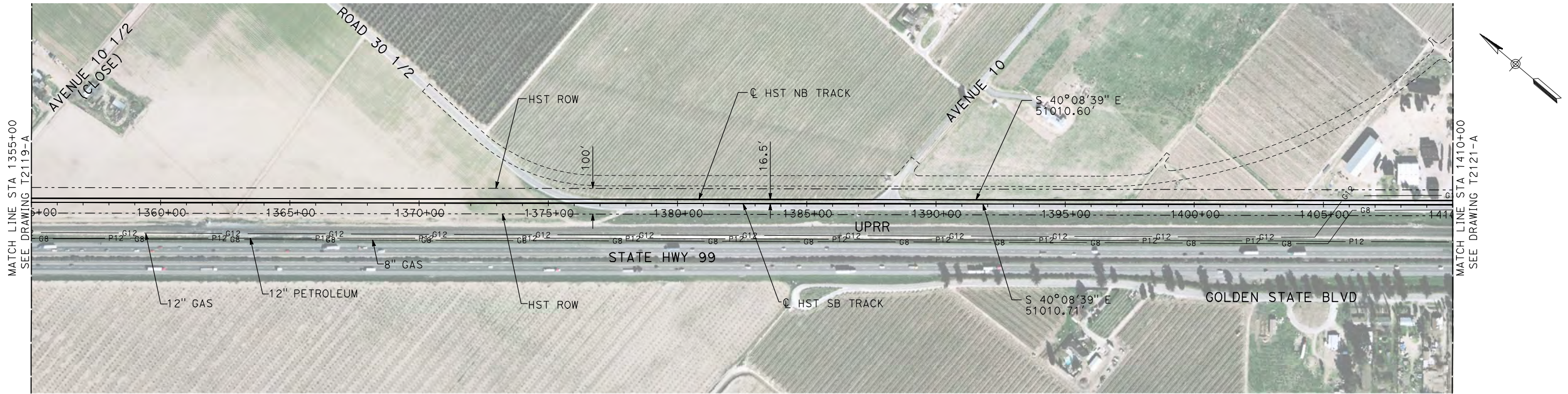
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1300+00 TO STA 1355+00

CONTRACT NO. HSR06-007
DRAWING NO. T2119-A
SCALE AS SHOWN
SHEET NO. ### OF ###

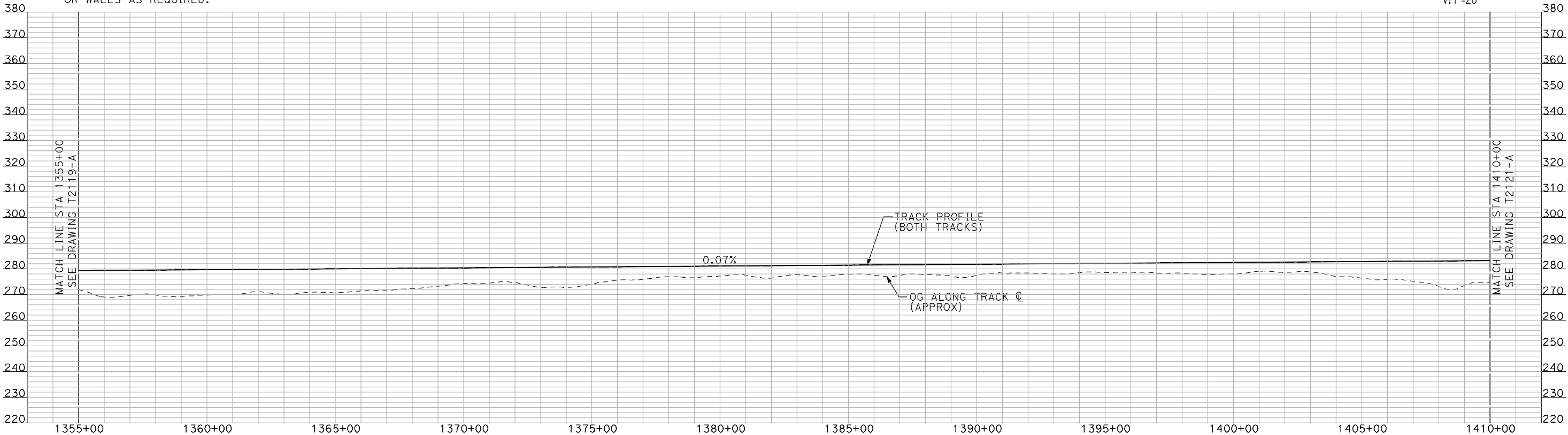
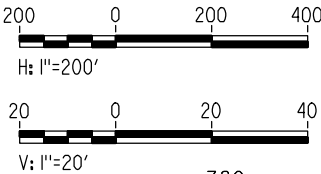
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

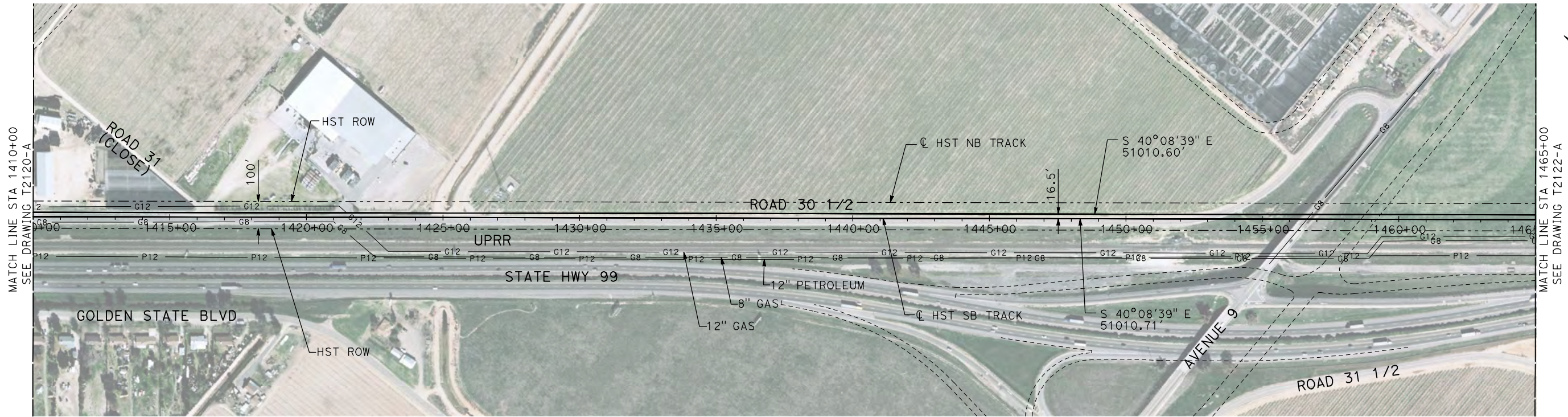


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
PLAN AND PROFILE
STA 1355+00 TO STA 1410+00

CONTRACT NO. HSR06-007
DRAWING NO. T2120-A
SCALE AS SHOWN
SHEET NO. ### OF ###

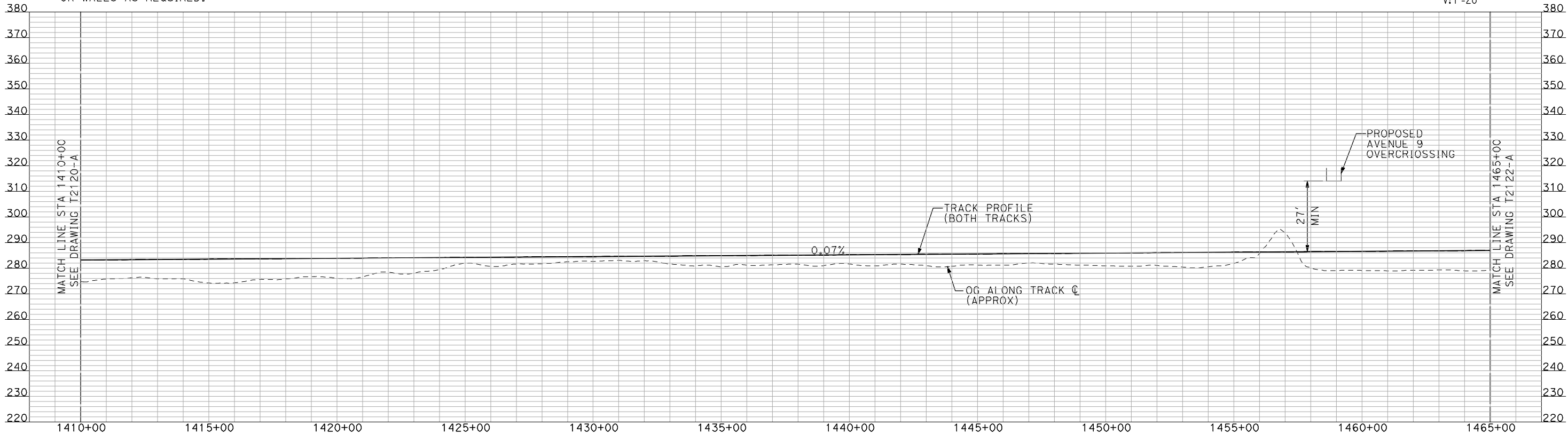
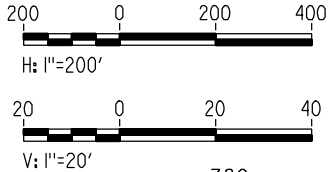
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



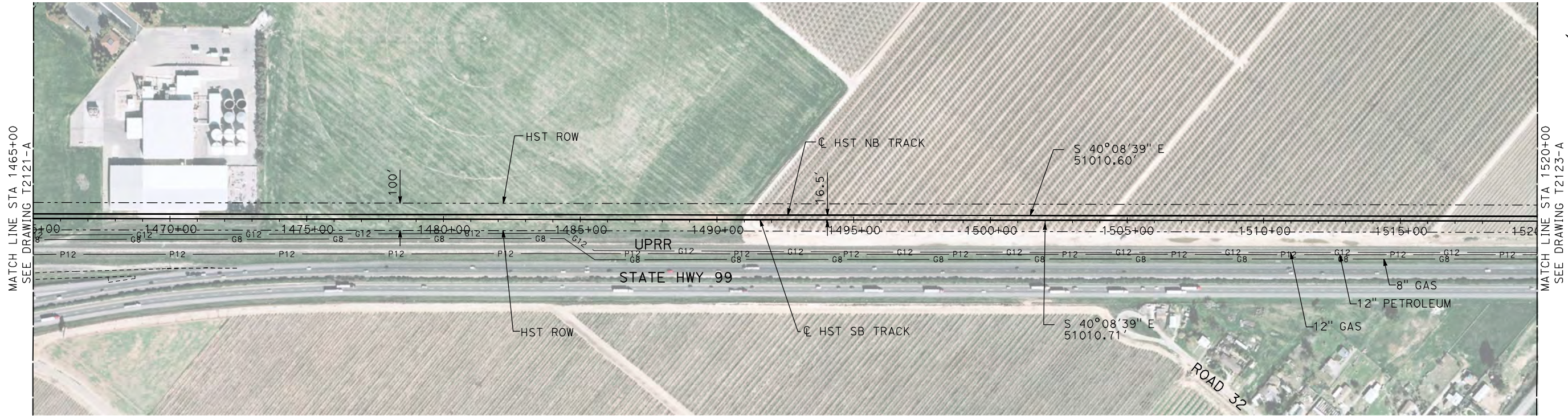
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1410+00 TO STA 1465+00

CONTRACT NO. HSR06-007
DRAWING NO. T2121-A
SCALE AS SHOWN
SHEET NO. ### OF ###

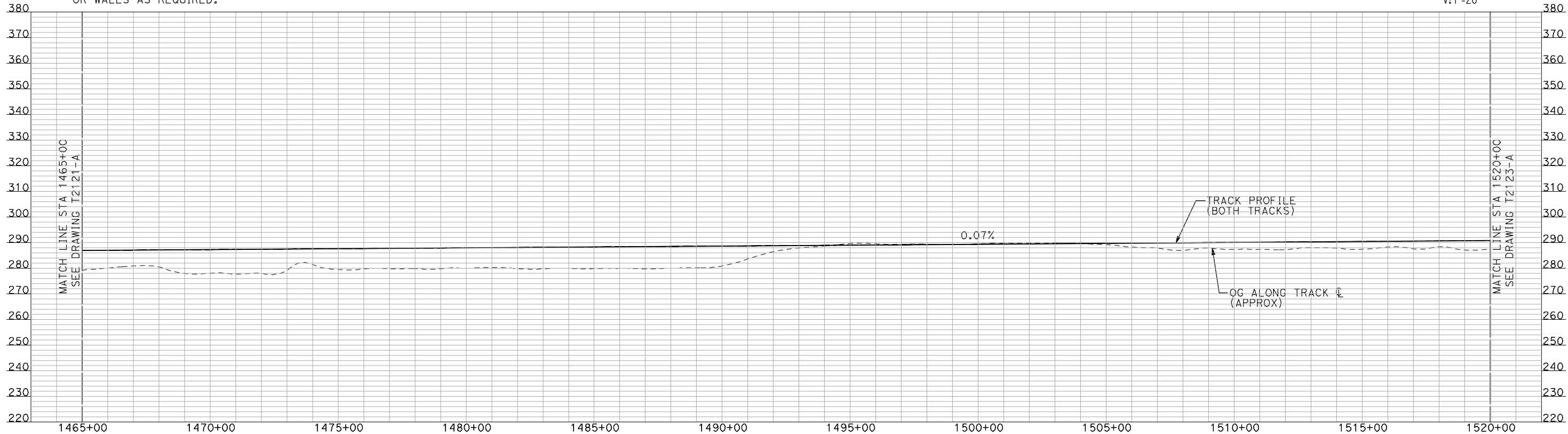
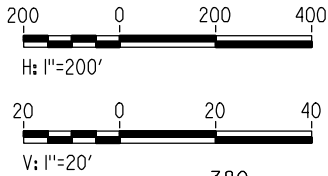
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



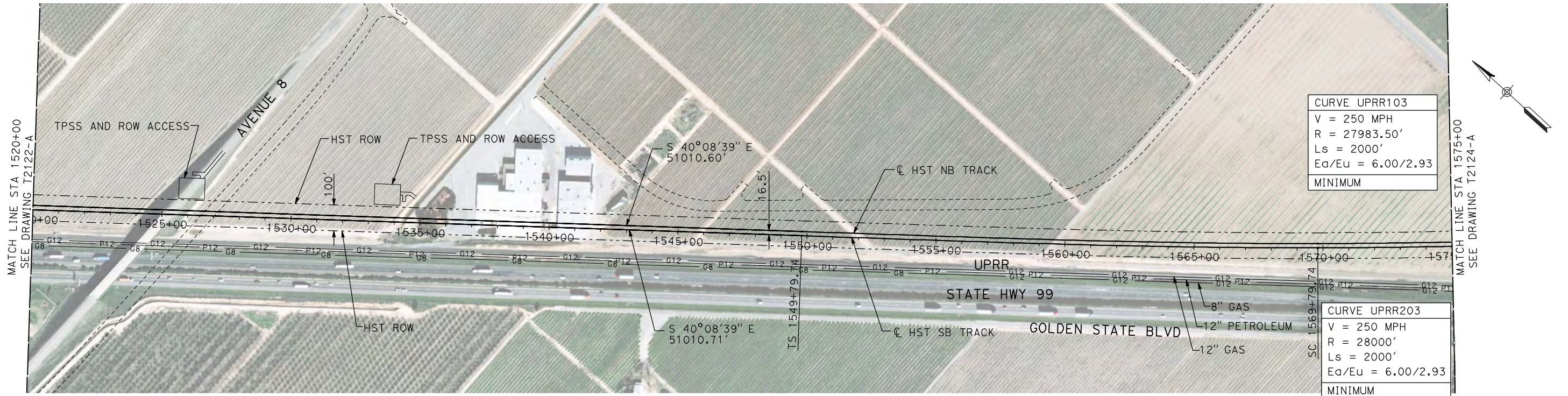
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1465+00 TO STA 1520+00

CONTRACT NO. HSR06-007
DRAWING NO. T2122-A
SCALE AS SHOWN
SHEET NO. ### OF ###

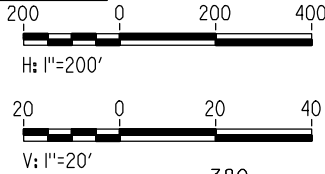
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

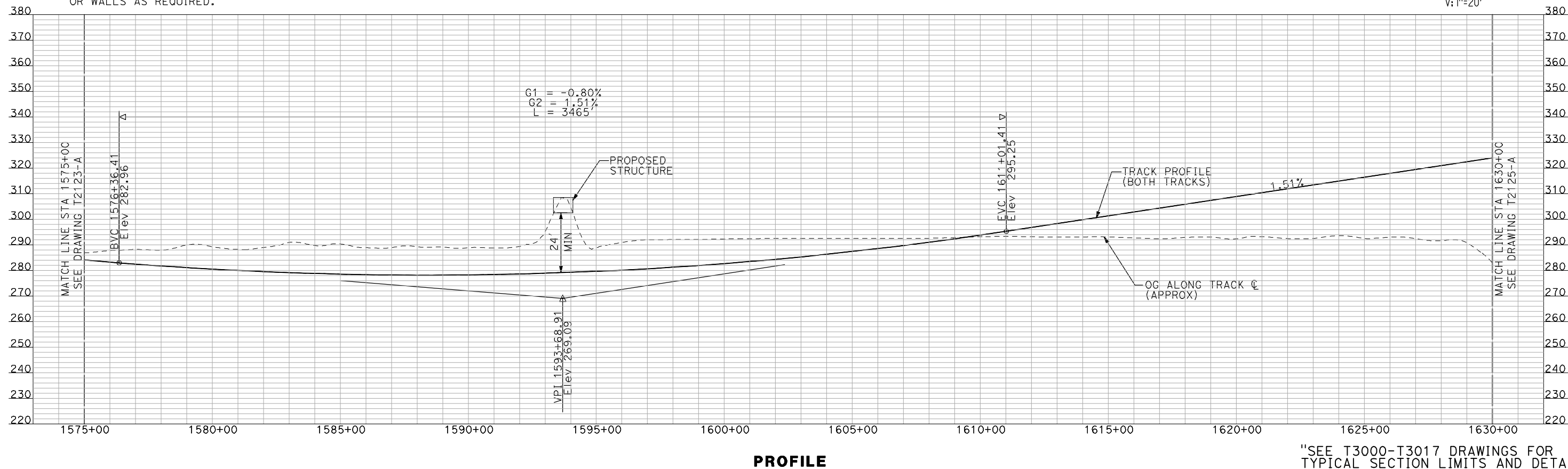
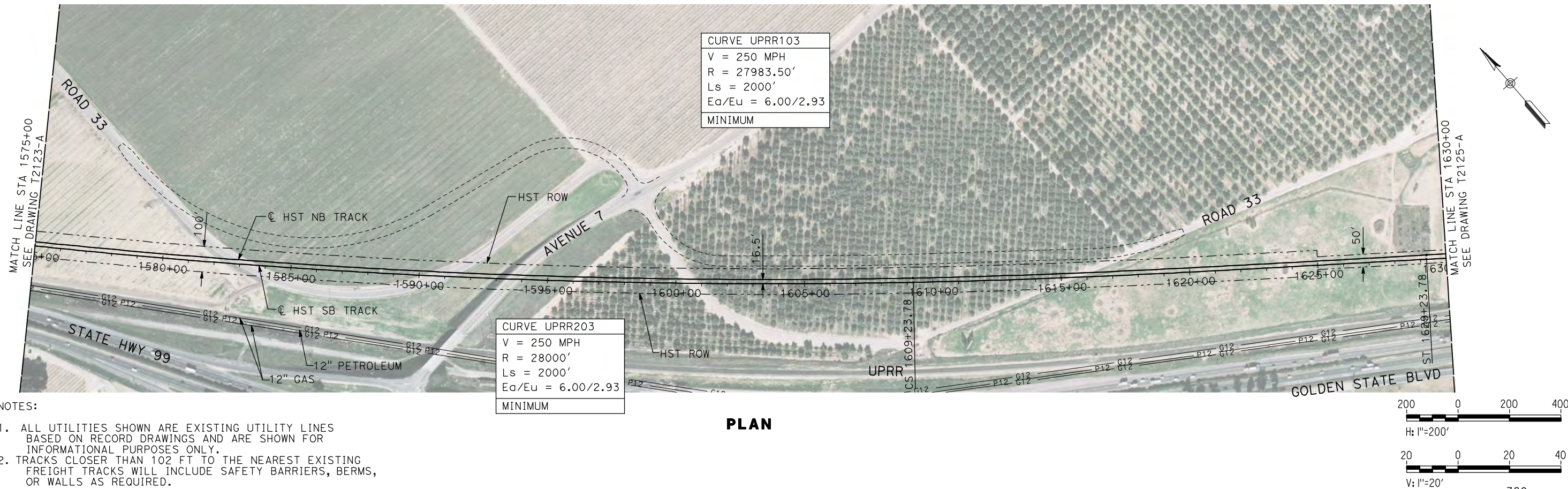


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1520+00 TO STA 1575+00

CONTRACT NO. HSR06-007
DRAWING NO. T2123-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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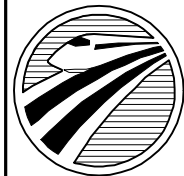
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



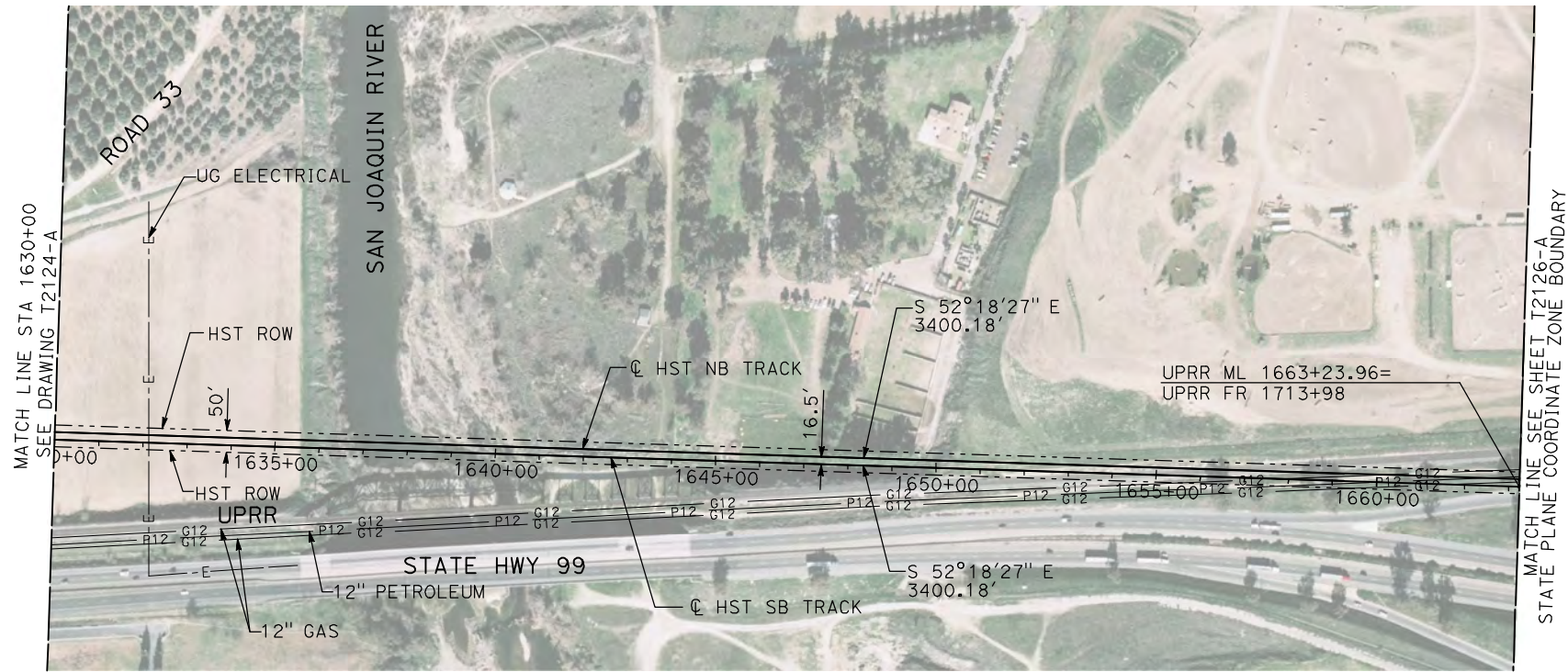
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1575+00 TO STA 1630+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2124-A
SCALE
AS SHOWN
SHEET NO.
OF

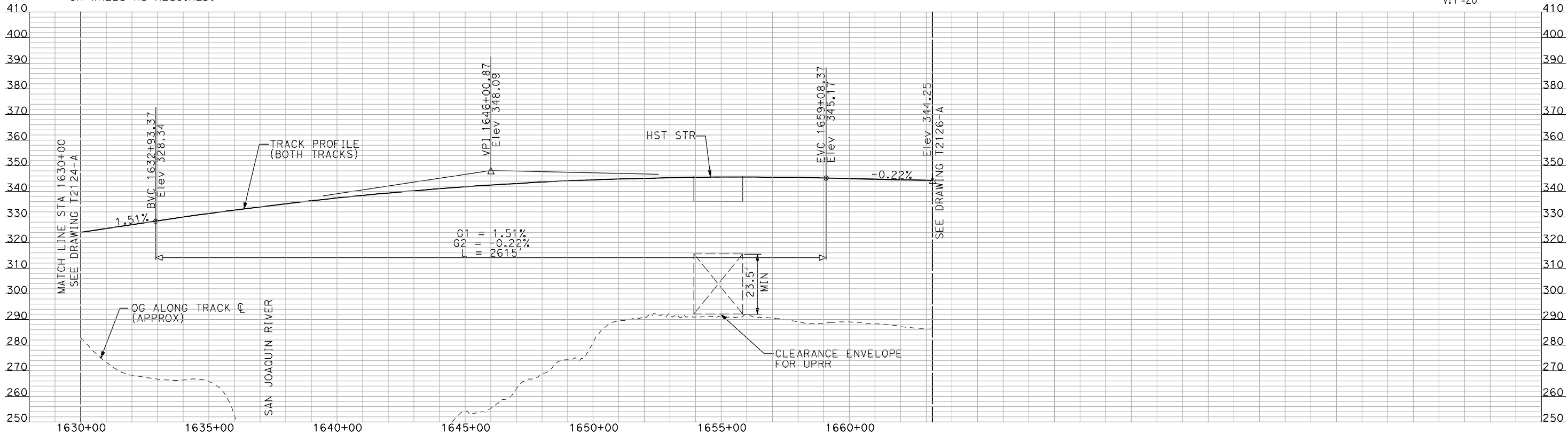
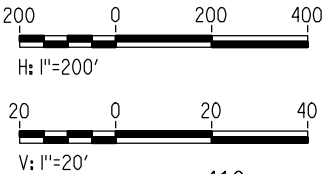
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

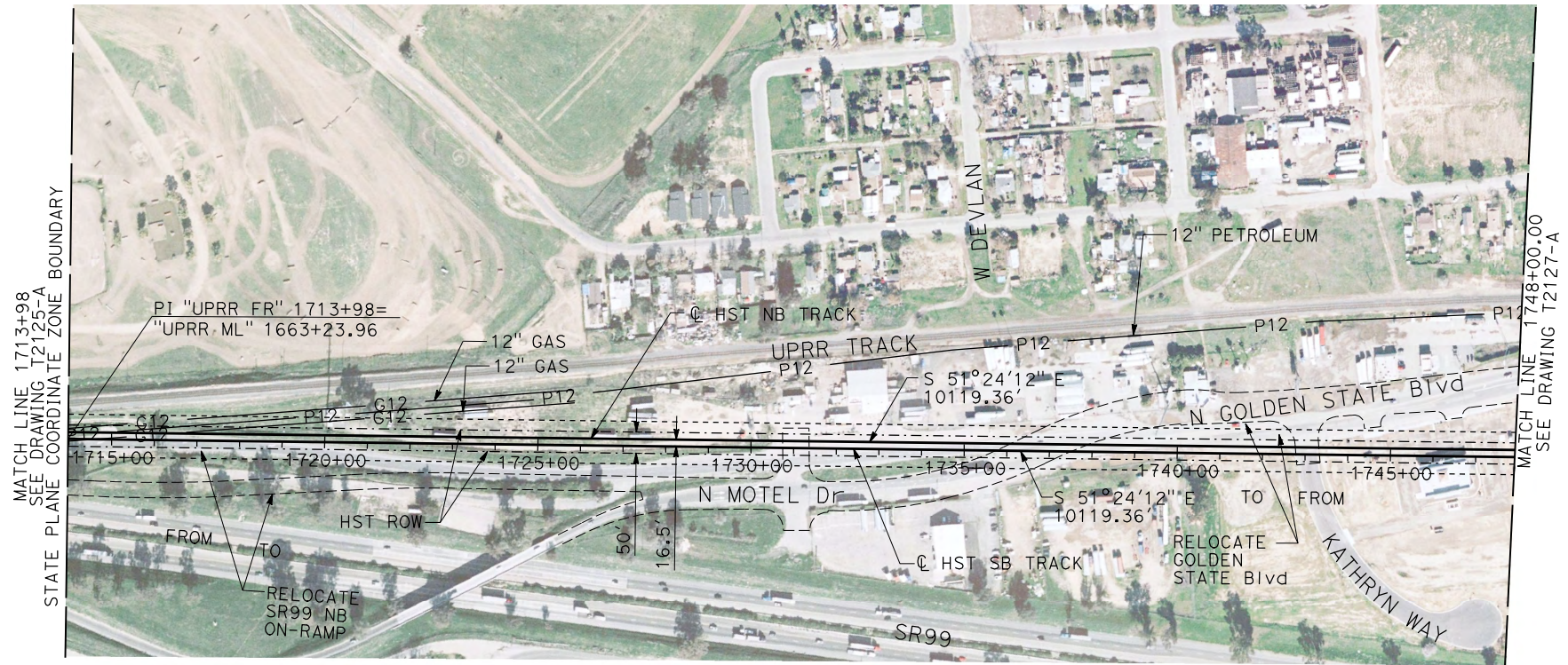
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1630+00 TO STA 1663+23.96

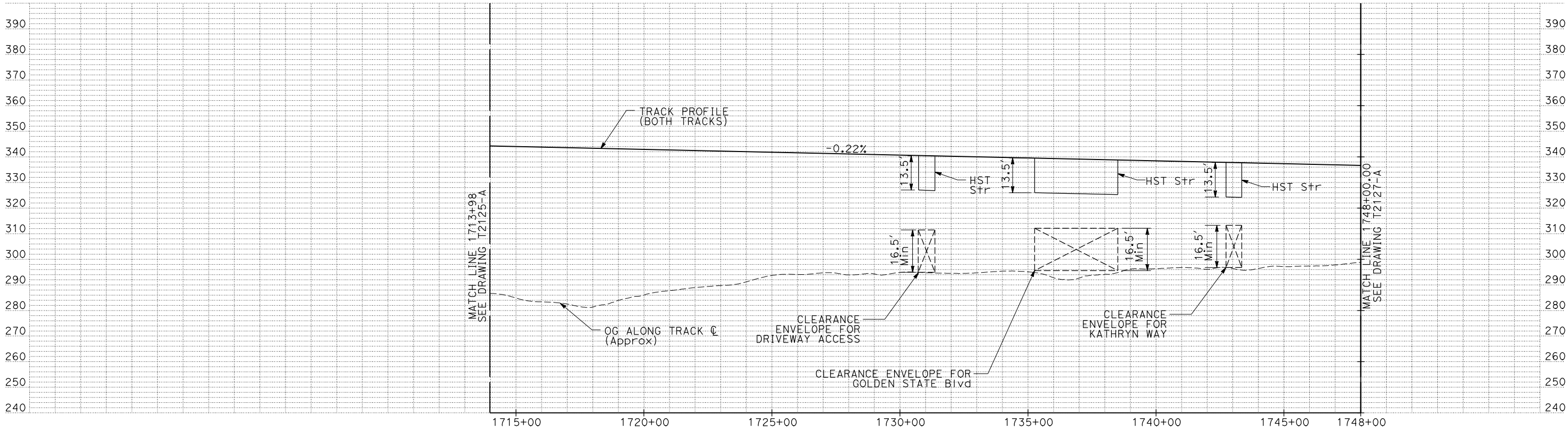
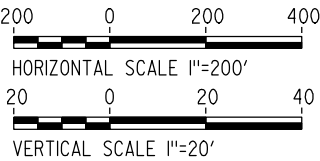
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DRAWING NO. T2125-A
SCALE AS SHOWN
SHEET NO. ### OF ###



PLAN

NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

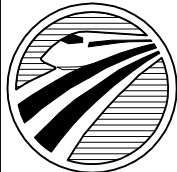
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. CHIU
DRAWN BY M. MCKEON
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

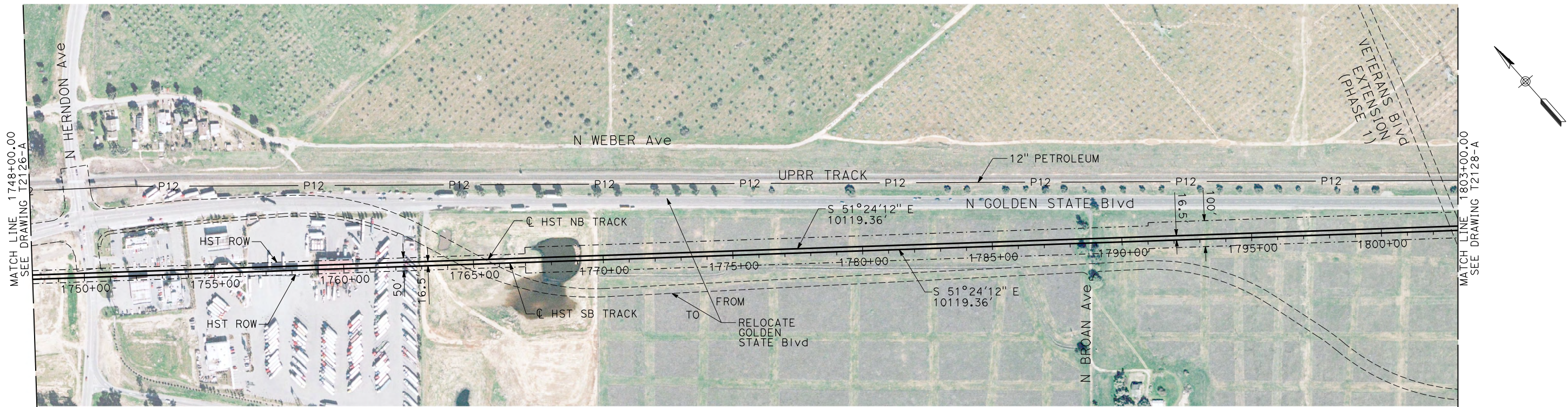
UPRR/SR99 MAIN LINE

PLAN AND PROFILE
STA 1713+98 TO STA 1748+00

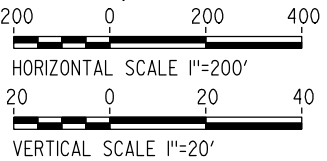
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SCALE AS SHOWN
SHEET NO.

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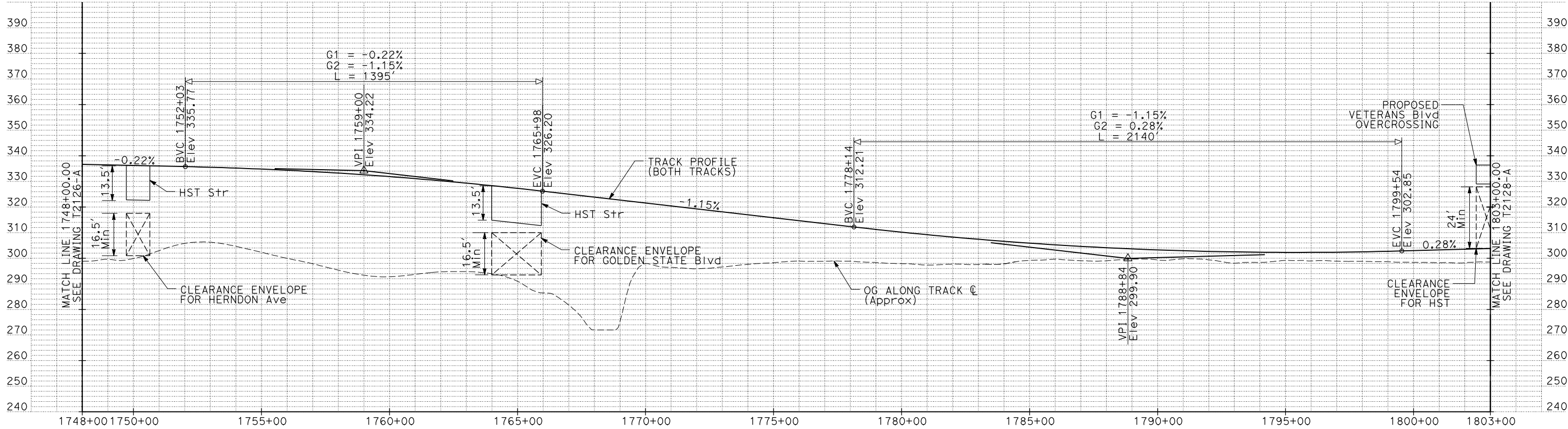
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TIME PLOTTED => 10:26



PLAN



- NOTE:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. CHIU
DRAWN BY M. MCKEON
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET 15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

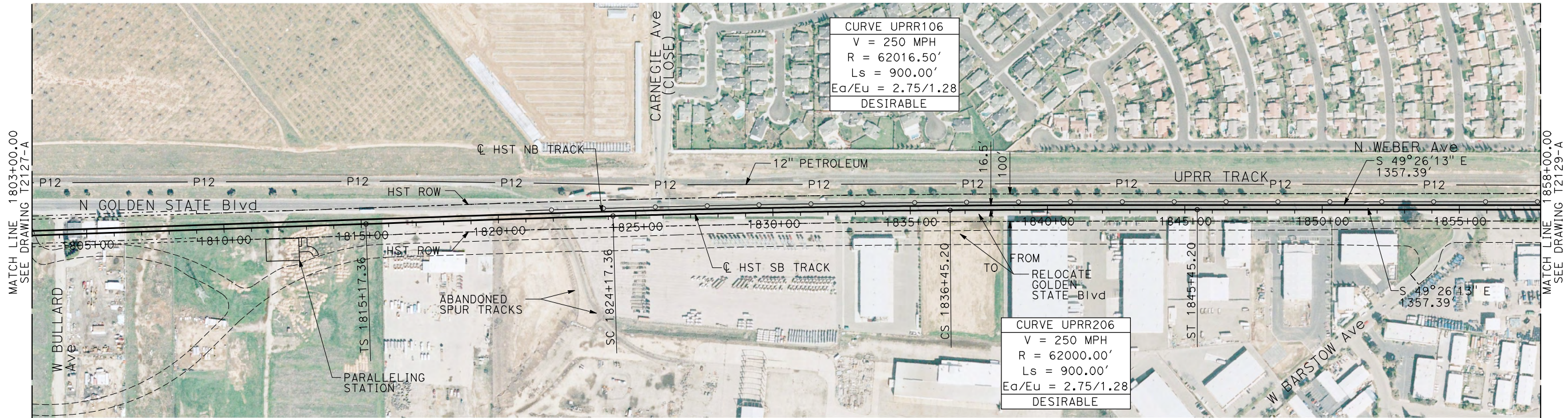


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR99 MAIN LINE

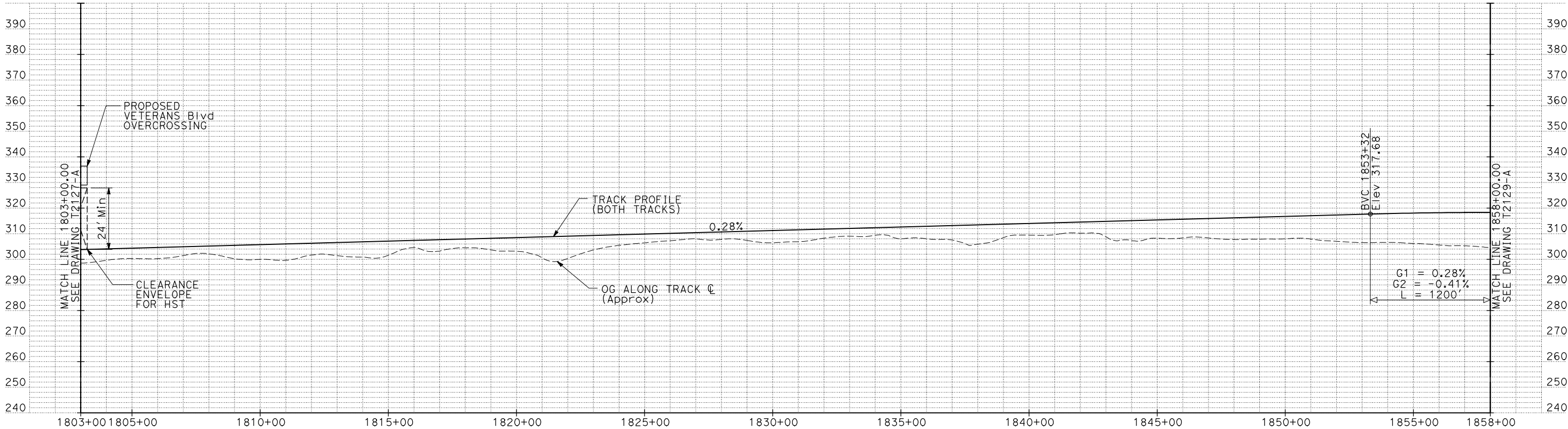
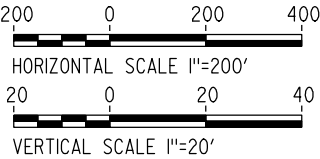
PLAN AND PROFILE
STA 1748+00 TO STA 1803+00

CONTRACT NO. HSR06-007
DRAWING NO. T2127-A
SCALE AS SHOWN
SHEET NO.



PLAN

- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

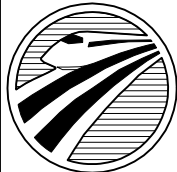
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. CHIU
DRAWN BY M. MCKEON
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

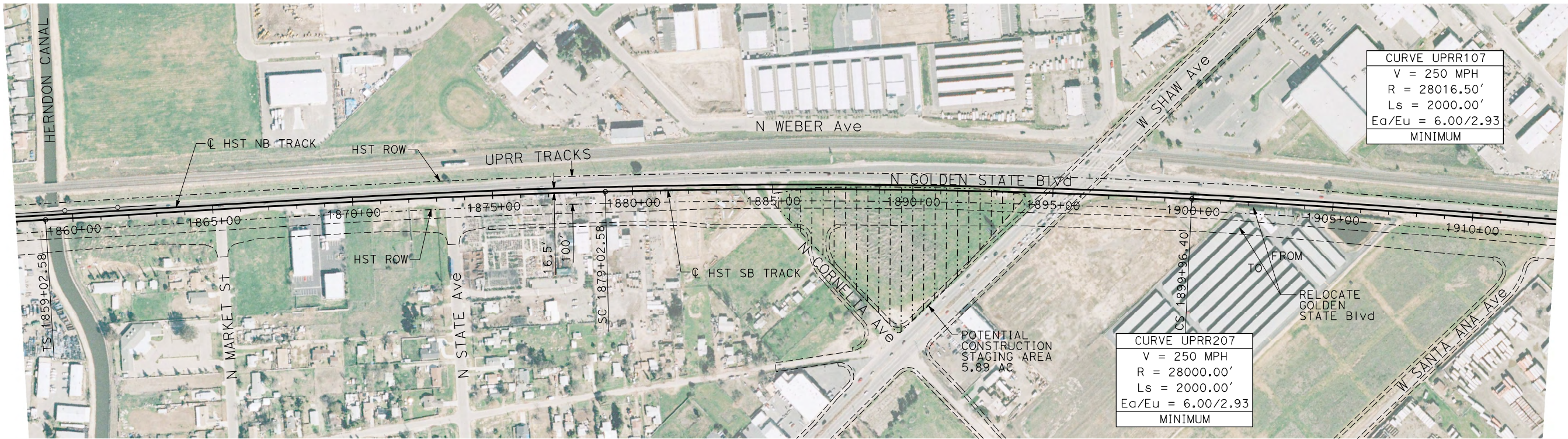
UPRR/SR99 MAIN LINE

PLAN AND PROFILE
STA 1803+00 TO STA 1858+00

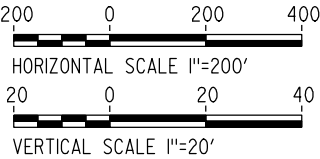
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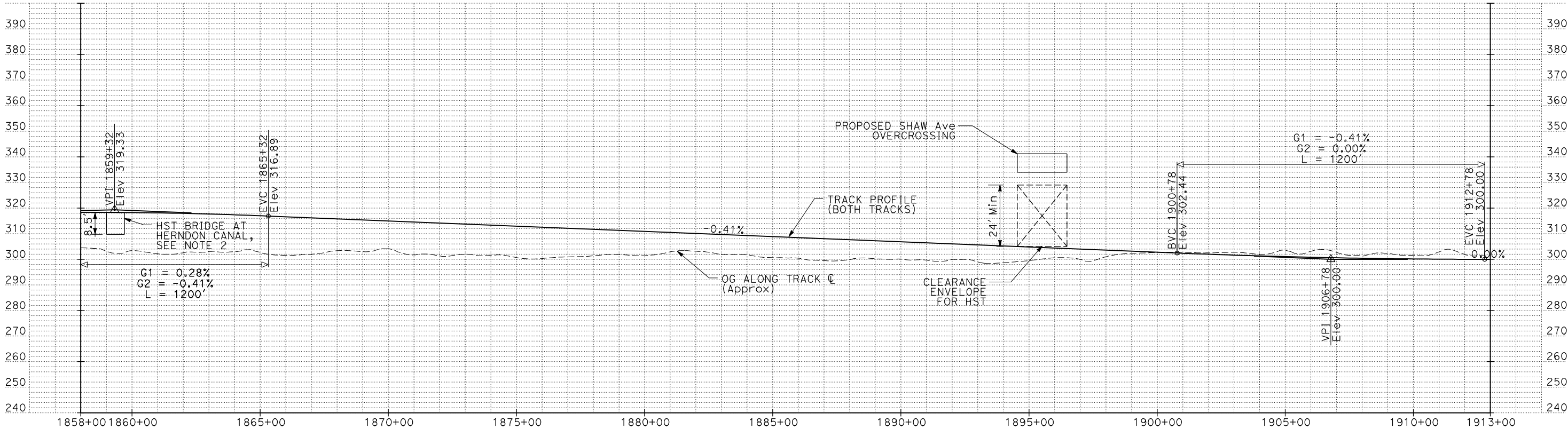
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PLAN



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

						DESIGNED BY
						DRAWN BY
						CHECKED BY
						IN CHARGE
						DATE
						JULY 2011
REV	DATE	BY	CHK	APP	DESCRIPTION	

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

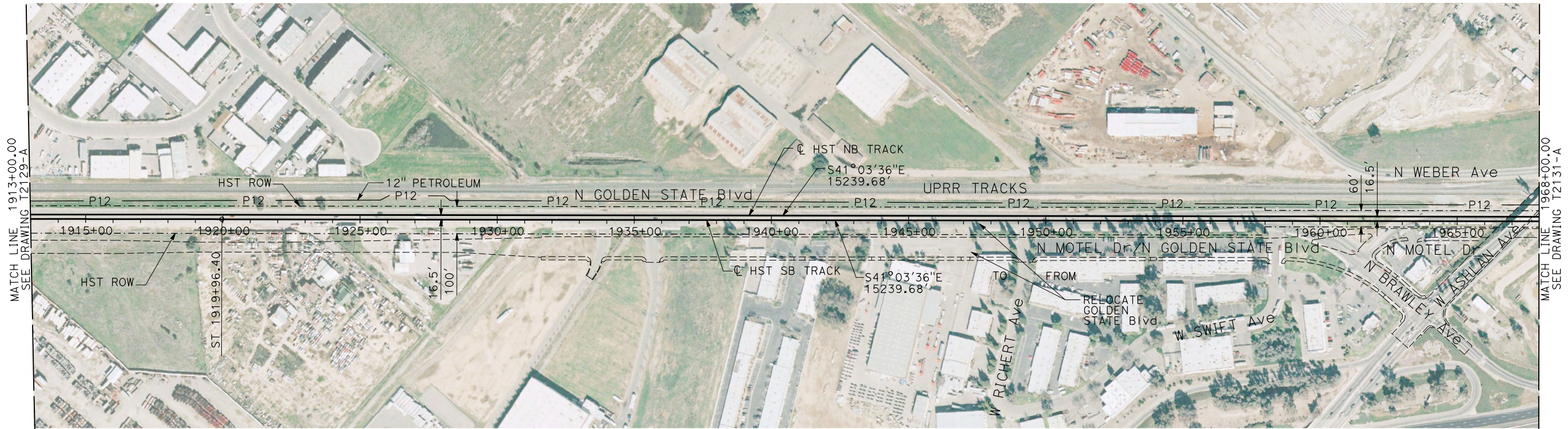


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

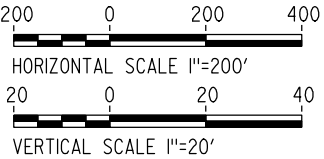
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DRAWING NO.
SCALE
SHEET NO.

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DGN FILE => MF-T-2129-A2-2

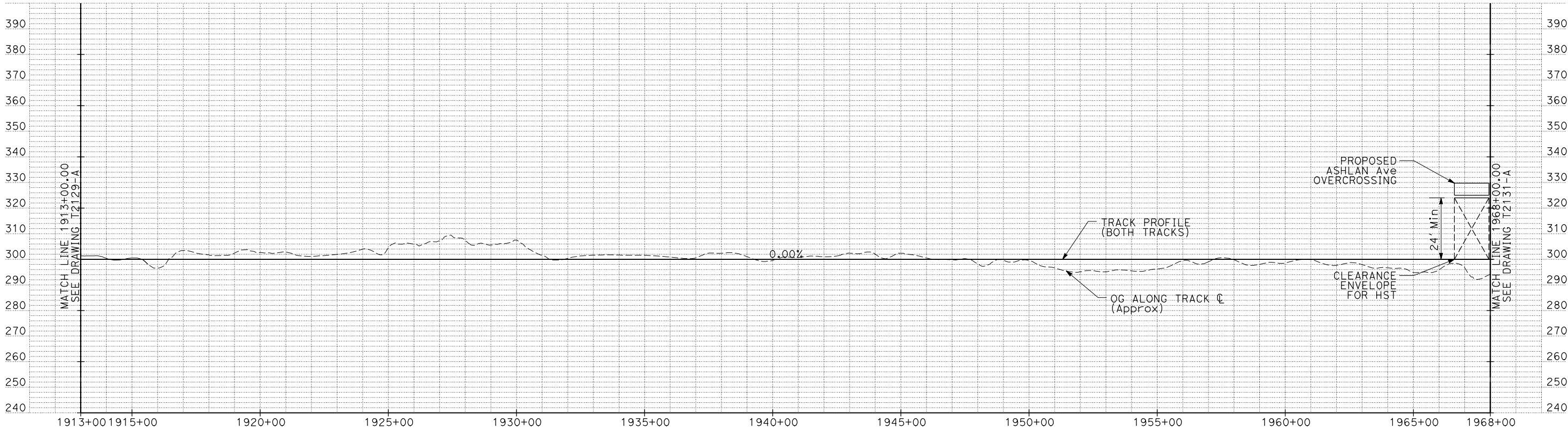
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PLAN



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. CHIU
DRAWN BY M. MCKEON
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 MAIN LINE
PLAN AND PROFILE
STA 1913+00 TO STA 1968+00

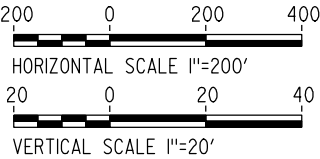
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SCALE AS SHOWN
SHEET NO.

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DGN FILE => MF-T-2130-A2-E

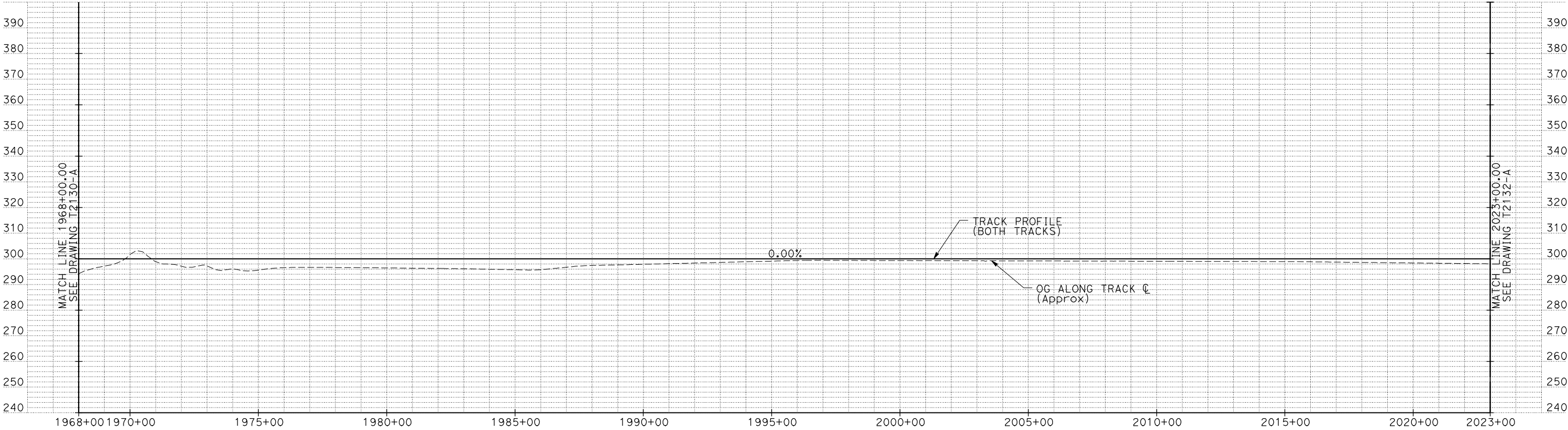
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TIME PLOTTED => 10:40



PLAN



- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



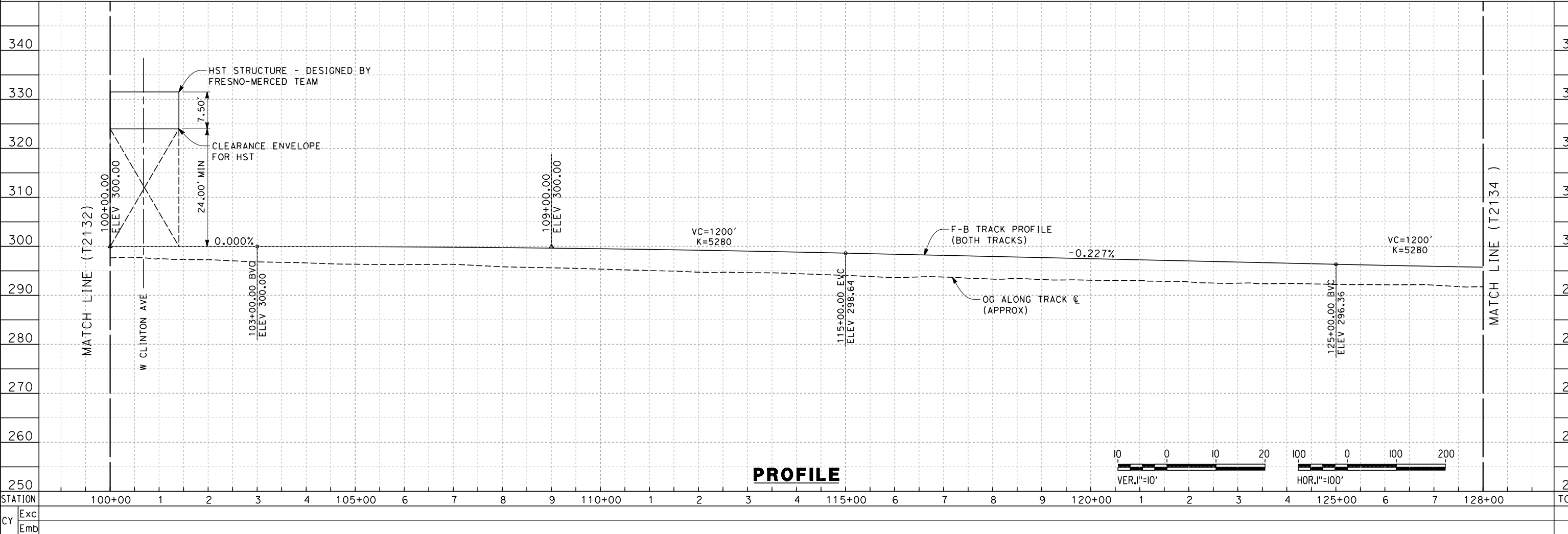
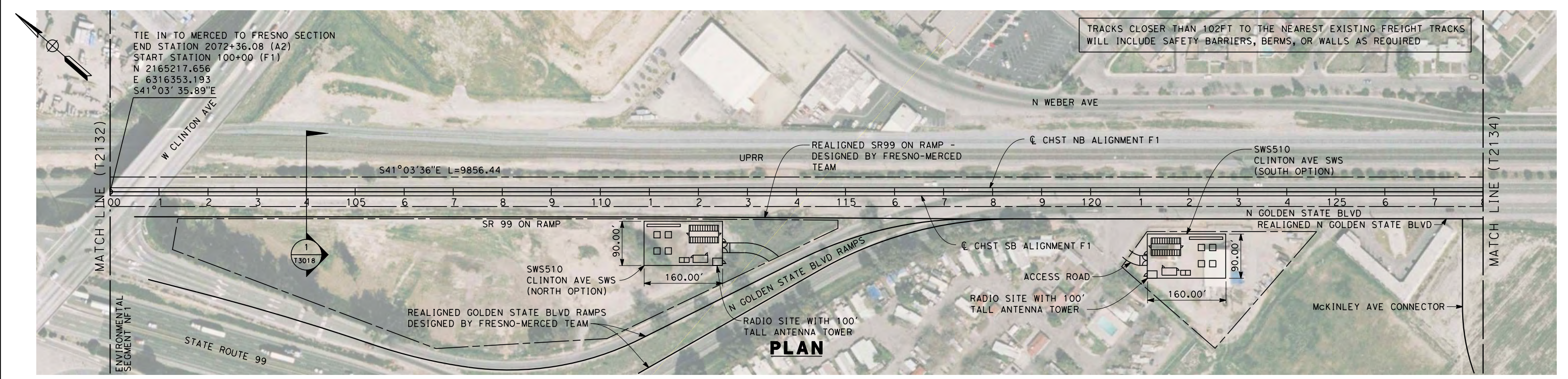
PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

						DESIGNED BY C. CHIU
						DRAWN BY M. MCKEON
						CHECKED BY V. CHIO
						IN CHARGE J. VALSECCHI
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE JULY 2011

CONTRACT NO.	HSR06-007
DRAWING NO.	T2131-A
SCALE	AS SHOWN
SHEET NO.	

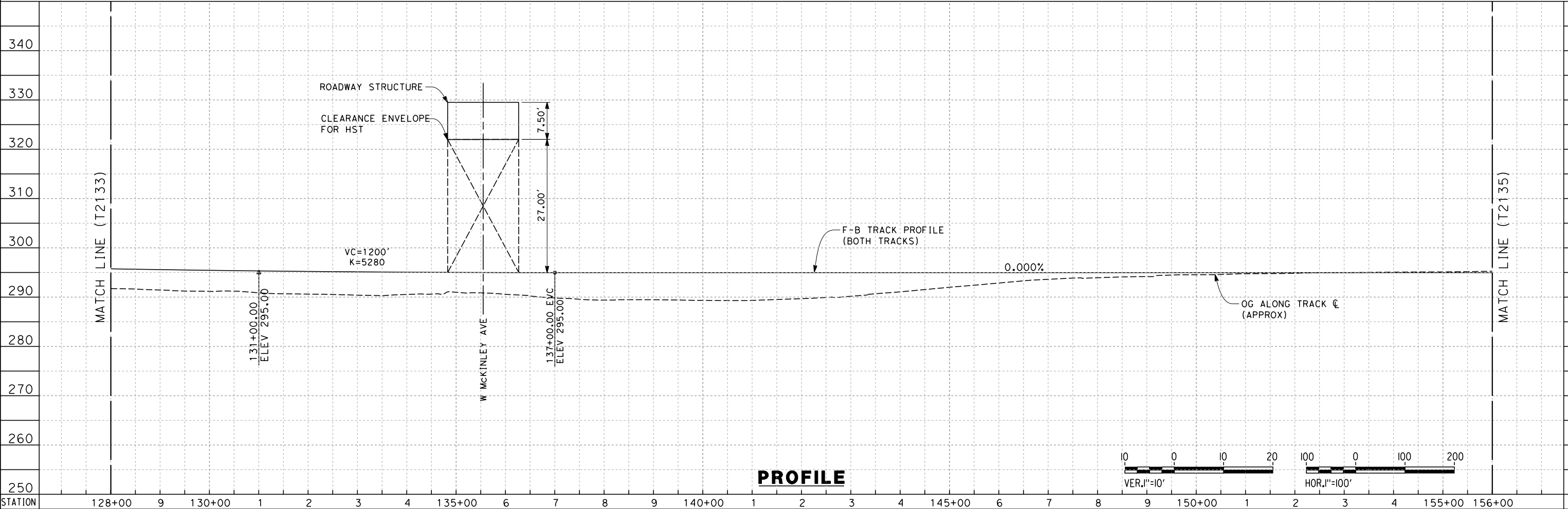
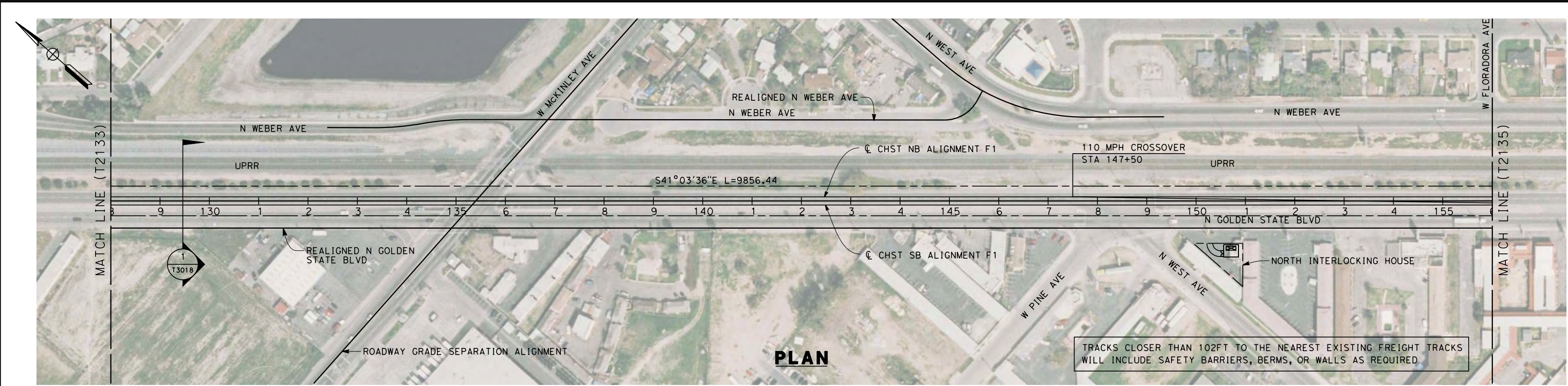
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR	RECORD SET 15% DESIGN SUBMISSION	 CALIFORNIA HIGH-SPEED TRAIN		CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR MAIN LINE	CONTRACT NO. HSR 06-0003
DRAWN BY P. TONKIN					DRAWING NO. T2133-A
CHECKED BY D. HUNT					SCALE AS SHOWN
IN CHARGE A. LUFT					SHEET NO. ### OF ###
DATE 06/30/11					

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CY	Exc																													
	Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY D. HUNT
IN CHARGE A. LUFT
DATE 06/30/11

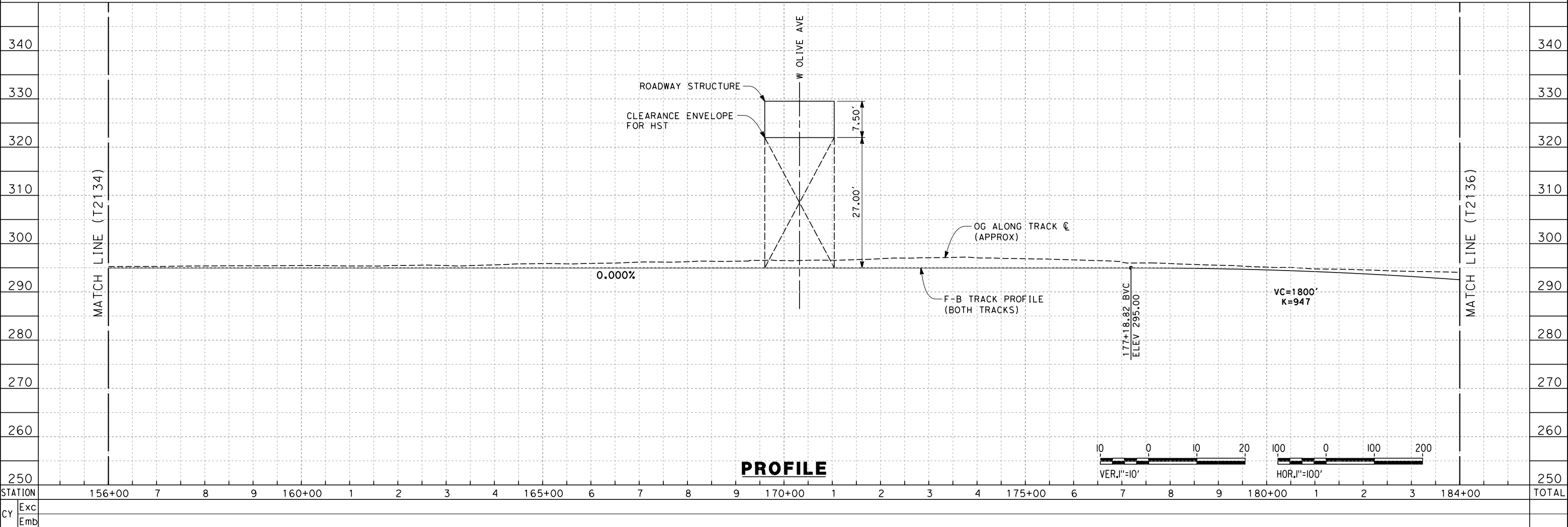
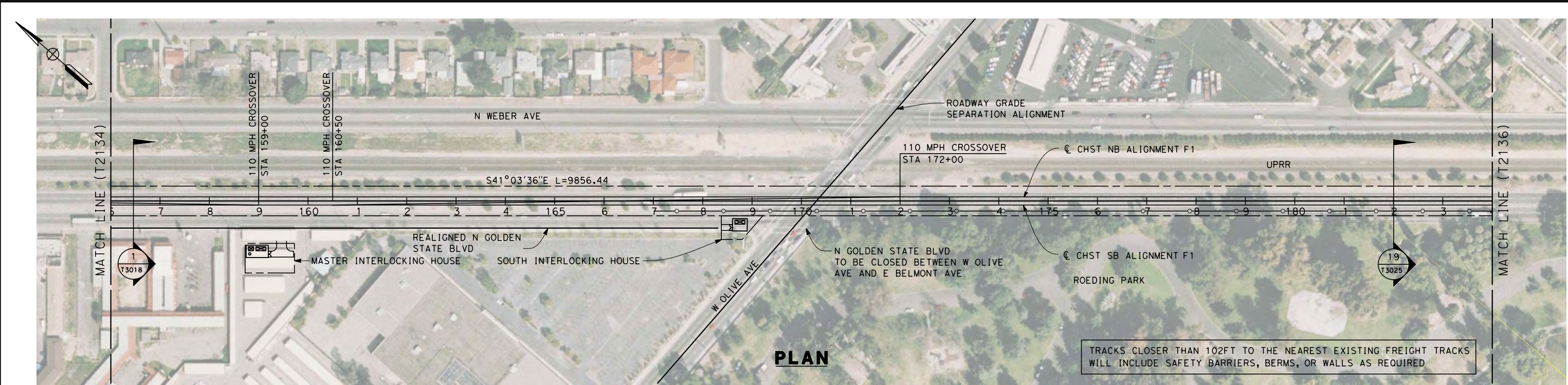
RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR MAIN LINE
PLAN AND PROFILE STA. 128+00 TO 156+00

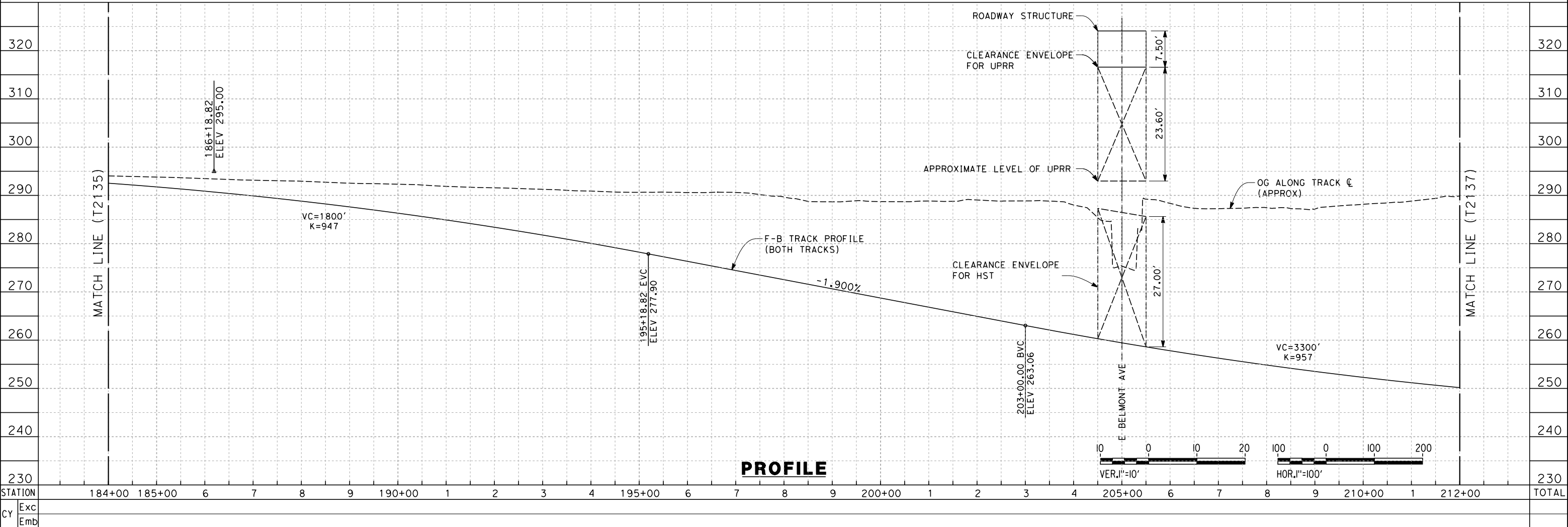
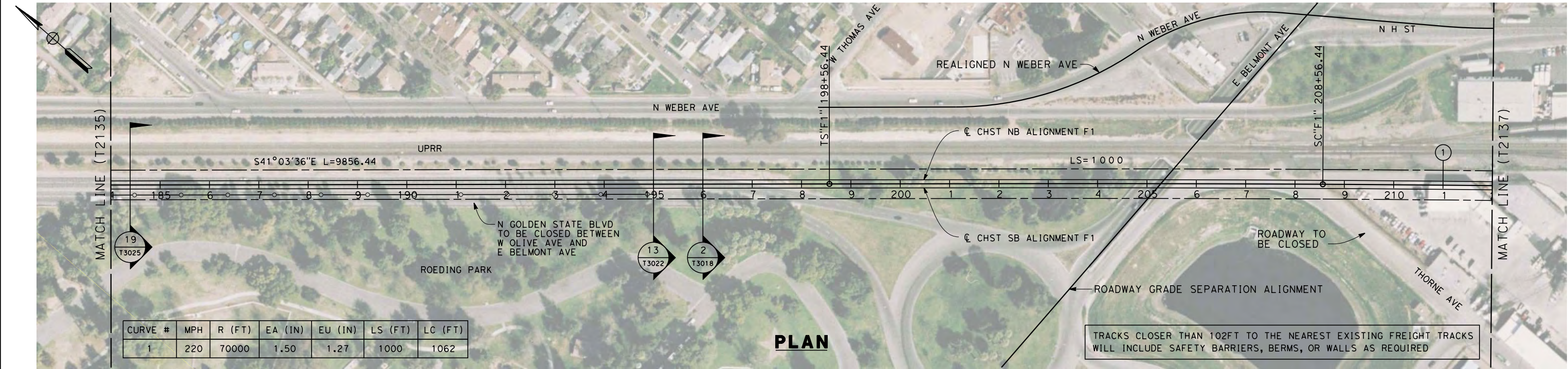
CONTRACT NO. HSR 06-0003
DRAWING NO. T2134-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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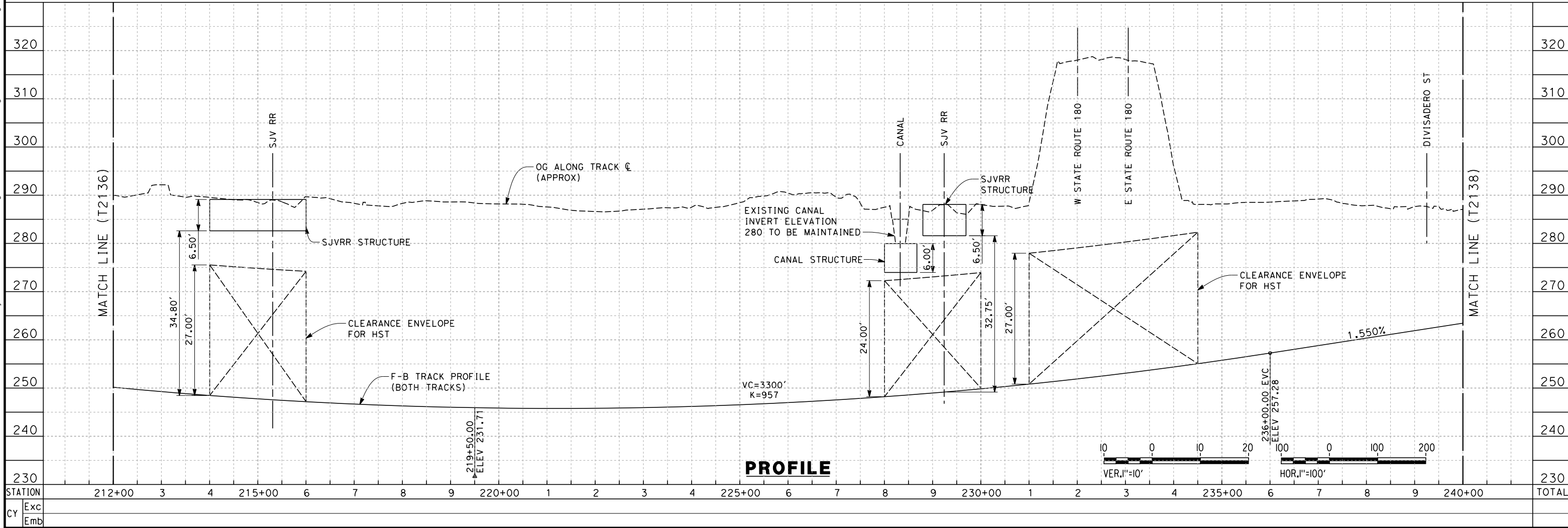
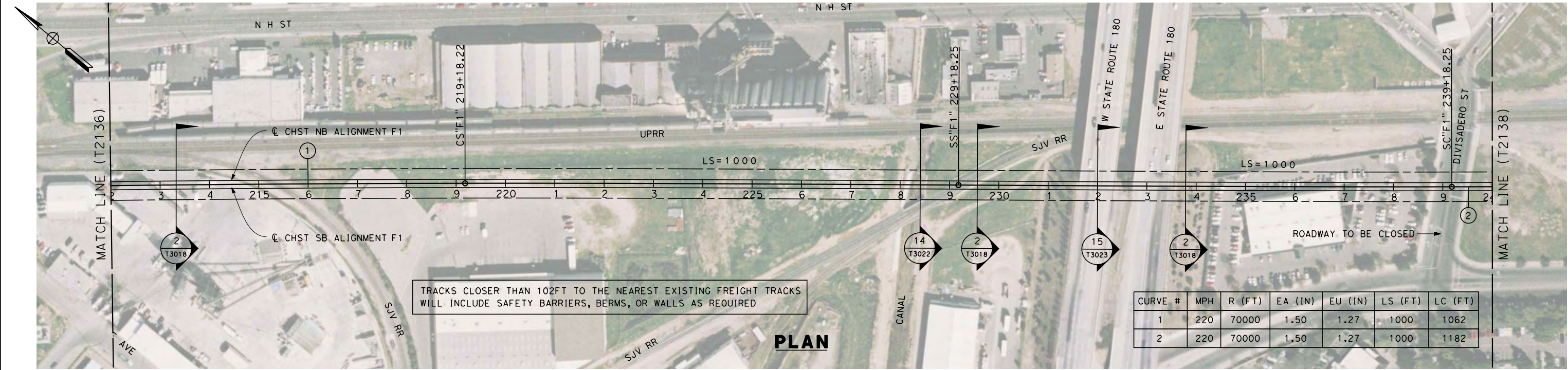
DESIGNED BY K. SEYMOUR DRAWN BY P. TONKIN CHECKED BY D. HUNT IN CHARGE A. LUFT DATE 06/30/11						RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION		URS HMM ARUP CALIFORNIA HIGH-SPEED TRAIN		CALIFORNIA HIGH-SPEED RAIL AUTHORITY		CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR MAIN LINE PLAN AND PROFILE STA. 156+00 TO 184+00				CONTRACT NO. HSR 06-0003 DRAWING NO. T2135-A SCALE AS SHOWN SHEET NO. ### OF ###	
REV	DATE	BY	CHK	APP	DESCRIPTION												

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DESIGNED BY K. SEYMOUR DRAWN BY P. TONKIN CHECKED BY D. HUNT IN CHARGE A. LUFT DATE 06/30/11						RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION		URS HMM ARUP CALIFORNIA HIGH-SPEED TRAIN		CALIFORNIA HIGH-SPEED RAIL AUTHORITY		CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR MAIN LINE PLAN AND PROFILE STA. 184+00 TO 212+00				CONTRACT NO. HSR 06-0003 DRAWING NO. T2136-A SCALE AS SHOWN SHEET NO. ### OF ###	
REV	DATE	BY	CHK	APP	DESCRIPTION												

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. SEYMOUR
DRAWN BY
P. TONKIN
CHECKED BY
D. HUNT
IN CHARGE
A. LUFT
DATE
06/30/11

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



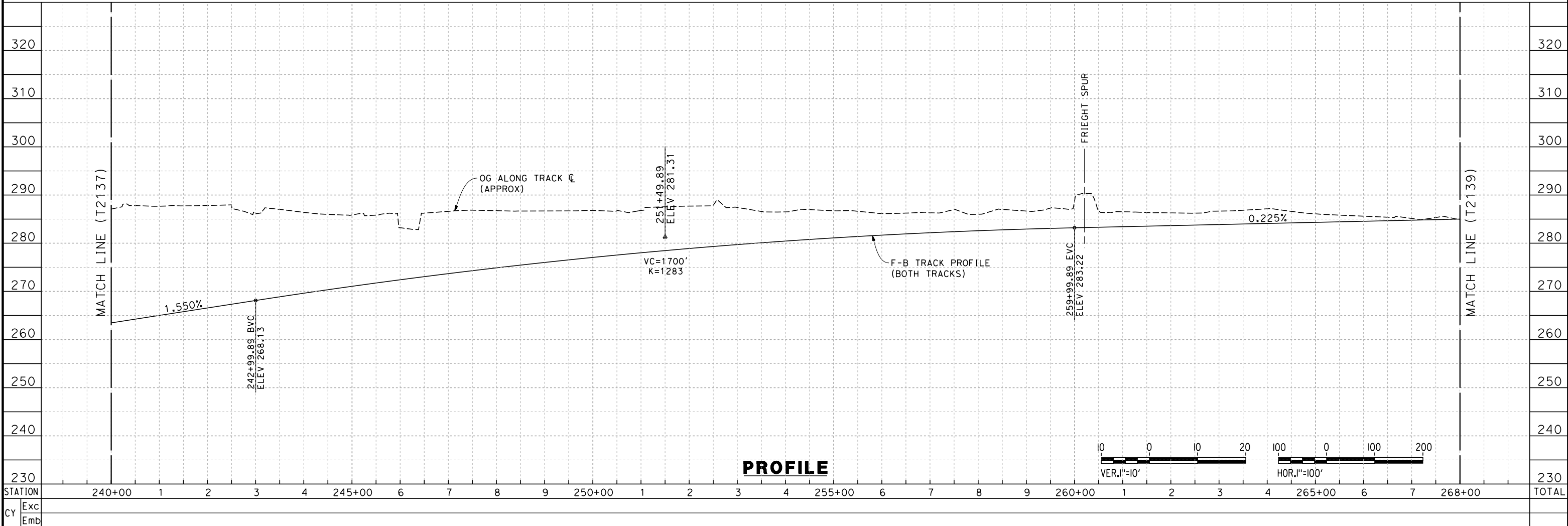
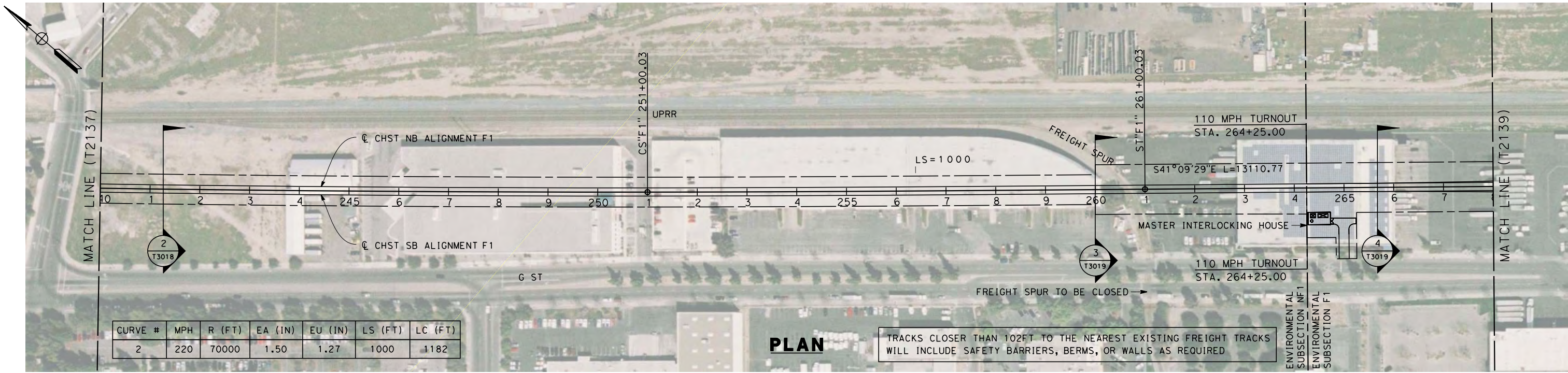
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR MAIN LINE

PLAN AND PROFILE
STA. 212+00 TO 240+00

CONTRACT NO.
HSR 06-0003
DRAWING NO.
T2137-A
SCALE
AS SHOWN
SHEET NO.
OF

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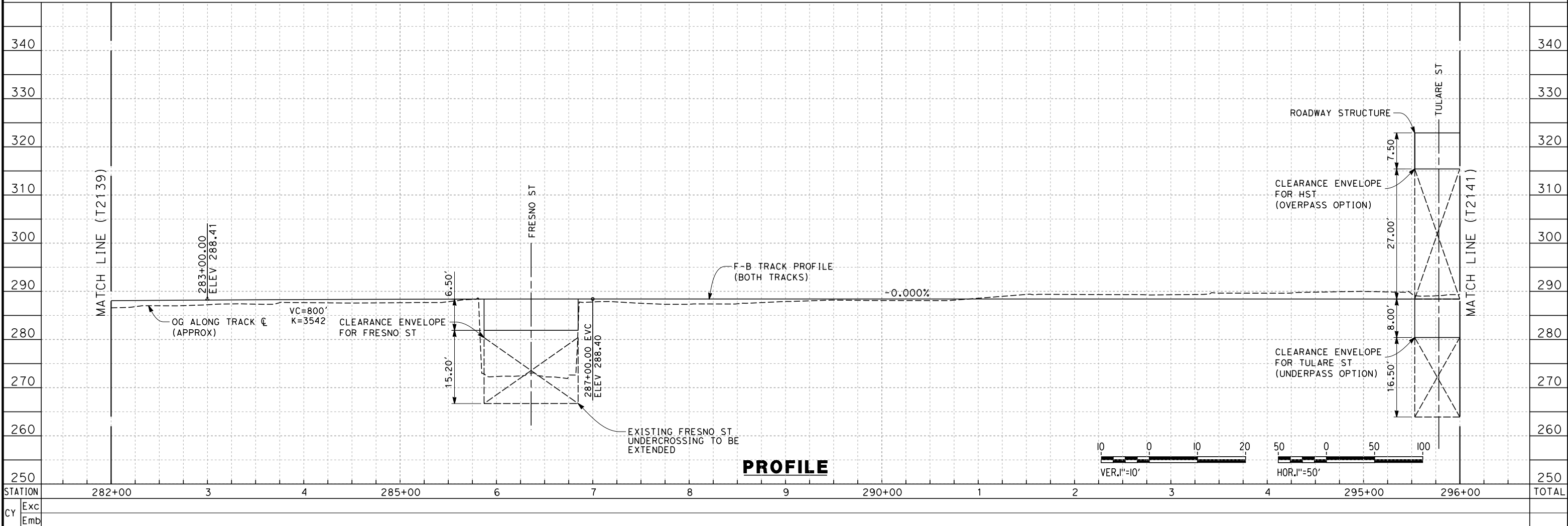
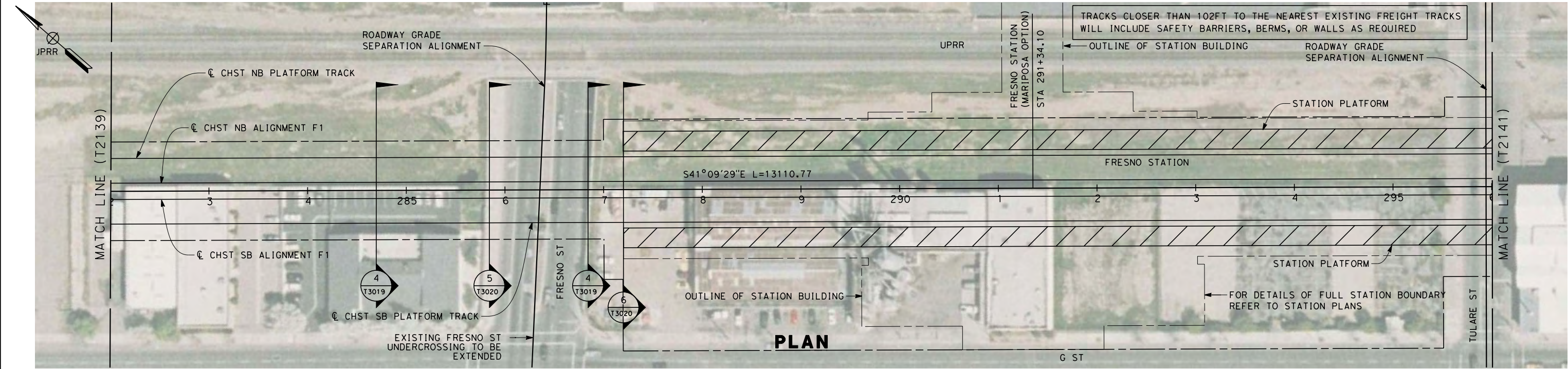


DESIGNED BY K. SEYMOUR DRAWN BY P. TONKIN CHECKED BY D. HUNT IN CHARGE A. LUFT DATE 06/30/11						RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR MAIN LINE PLAN AND PROFILE STA. 240+00 TO 268+00	CONTRACT NO. HSR 06-0003
DRAWING NO. T2138-A SCALE AS SHOWN SHEET NO. ### OF ###										
REV	DATE	BY	CHK	APP	DESCRIPTION					



						DESIGNED BY K. SEYMOUR	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR MAIN LINE PLAN AND PROFILE STA. 268+00 TO 282+00	CONTRACT NO. HSR 06-0003
						DRAWN BY P. TONKIN				DRAWING NO. T2139-A
						CHECKED BY D. HUNT				SCALE AS SHOWN
						IN CHARGE A. LUF T				SHEET NO. ### OF ###
						DATE 06/30/11				
REV	DATE	BY	CHK	APP	DESCRIPTION					

frank.palermo 7/22/2011 10:26:49 AM 0:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\AECOM\UPRR-SR99 Alignment - Ave 21\FB-T2140-A-F1m.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. SEYMOUR
DRAWN BY
P. TONKIN
CHECKED BY
D. HUNT
IN CHARGE
A. LUFT
DATE
06/30/11

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

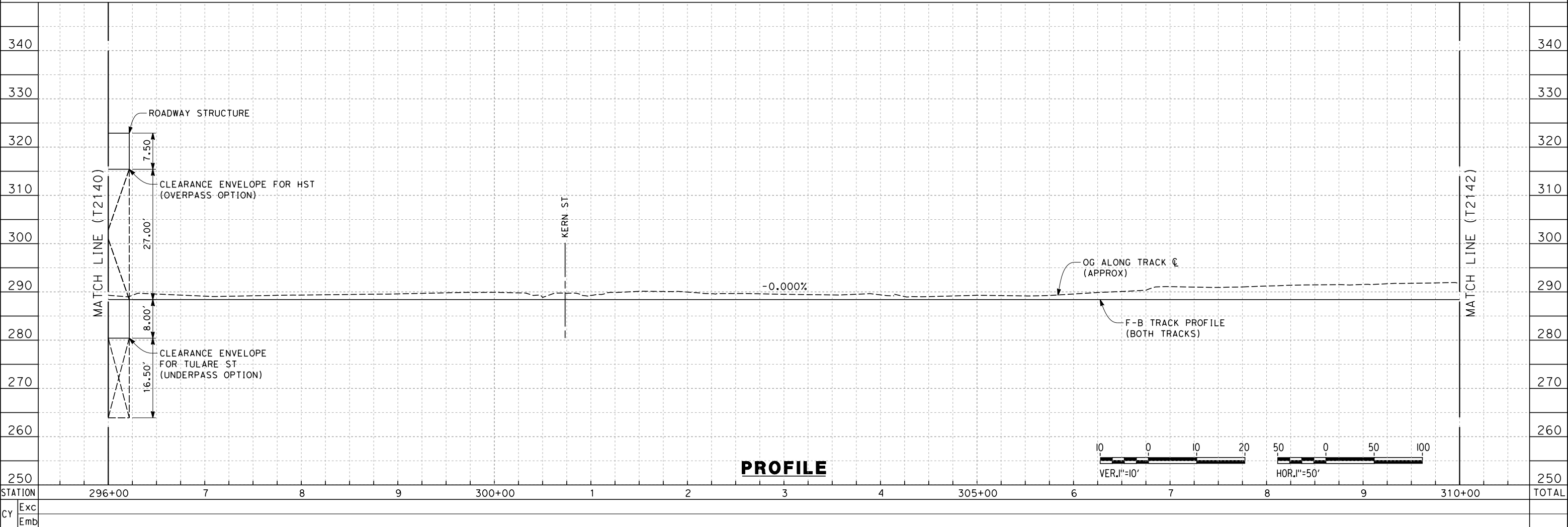
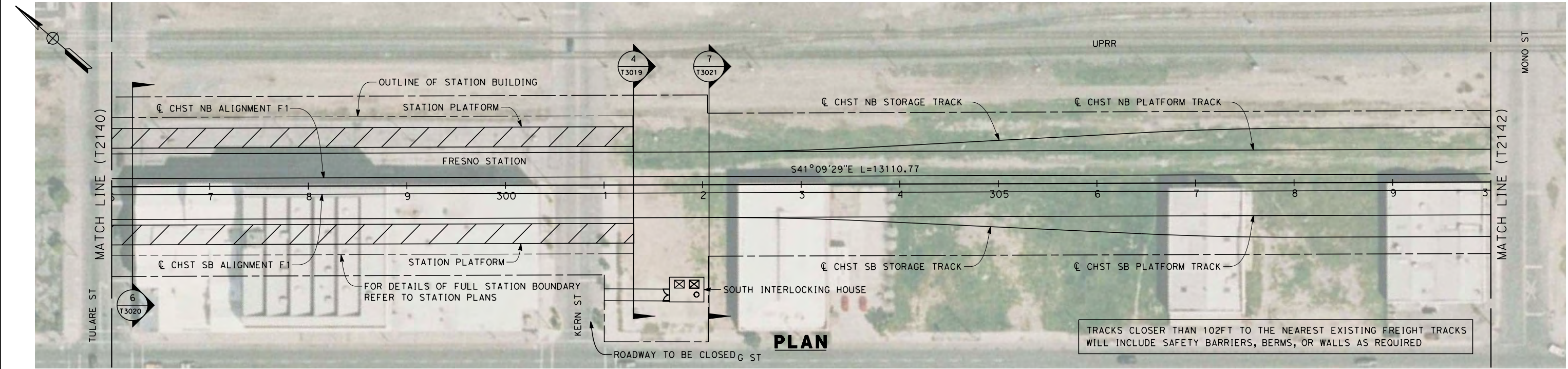


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR MAIN LINE

PLAN AND PROFILE
STA. 282+00 TO 296+00

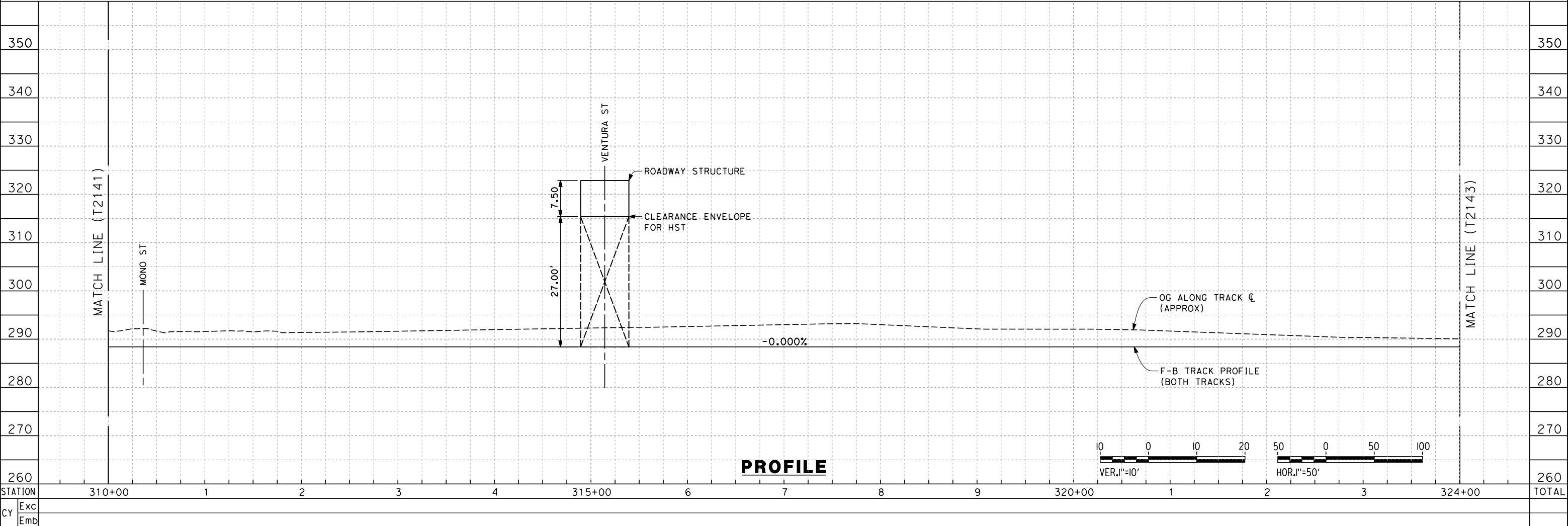
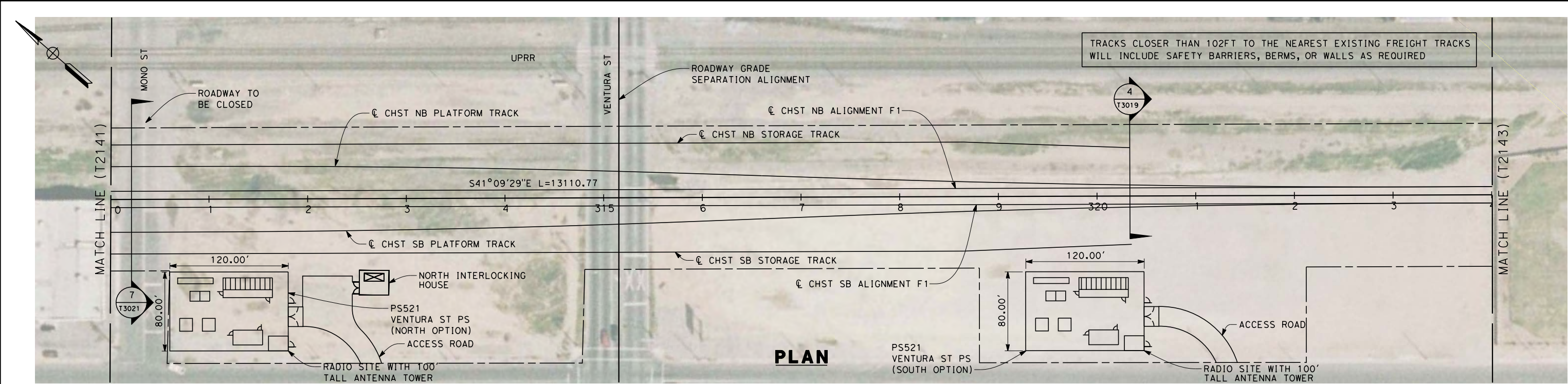
CONTRACT NO.
HSR 06-0003
DRAWING NO.
T2140-A
SCALE
AS SHOWN
SHEET NO.
OF

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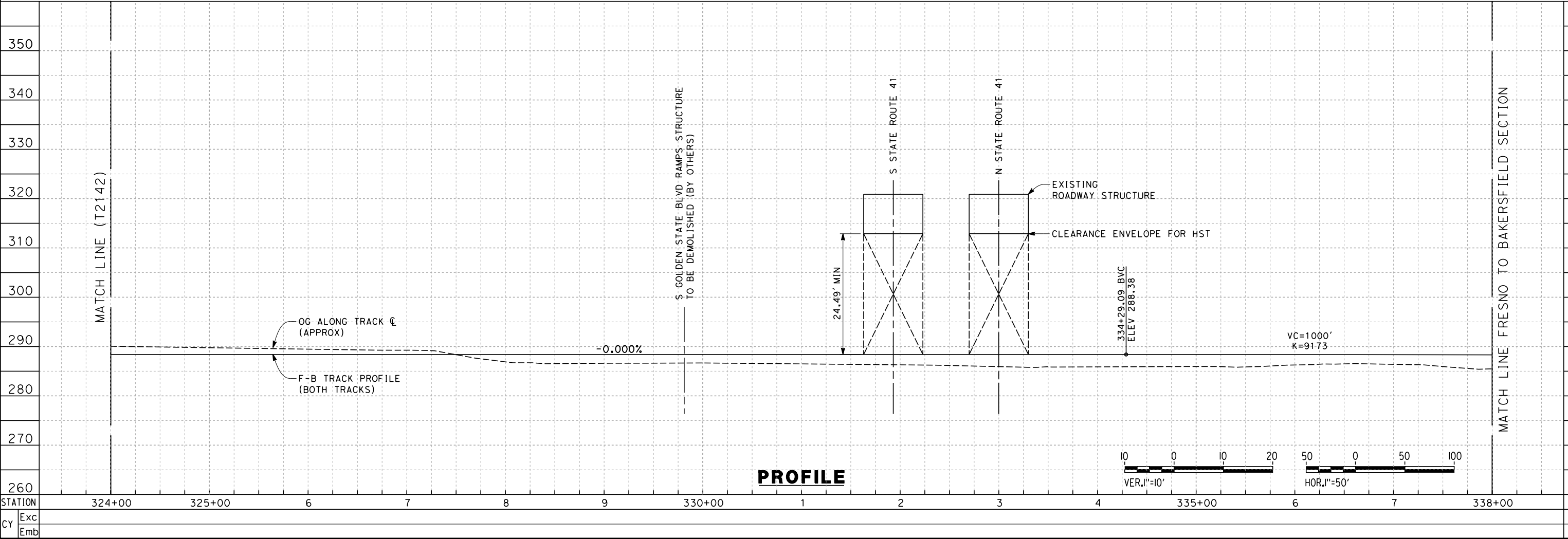
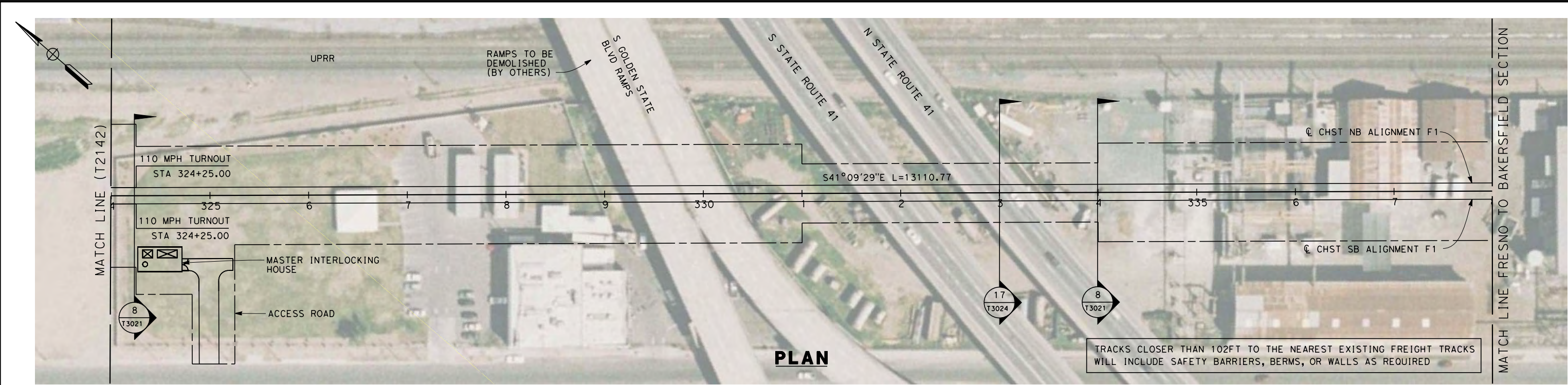
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						DRAWN BY P. TONKIN				DRAWING NO. T2141-A
						CHECKED BY D. HUNT				SCALE AS SHOWN
						IN CHARGE A. LUFT				SHEET NO. ### OF ###
						DATE 06/30/11				
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DESIGNED BY K. SEYMOUR DRAWN BY P. TONKIN CHECKED BY D. HUNT IN CHARGE A. LUFT DATE 05/13/11						RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION		URS HMM ARUP CALIFORNIA HIGH-SPEED TRAIN		CALIFORNIA HIGH-SPEED RAIL AUTHORITY		CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR MAIN LINE PLAN AND PROFILE STA. 310+00 TO 324+00				CONTRACT NO. HSR 06-0003 DRAWING NO. T2142-A SCALE AS SHOWN SHEET NO. XX OF XX	
REV	DATE	BY	CHK	APP	DESCRIPTION												

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY D. HUNT
IN CHARGE A. LUFT
DATE 05/13/11

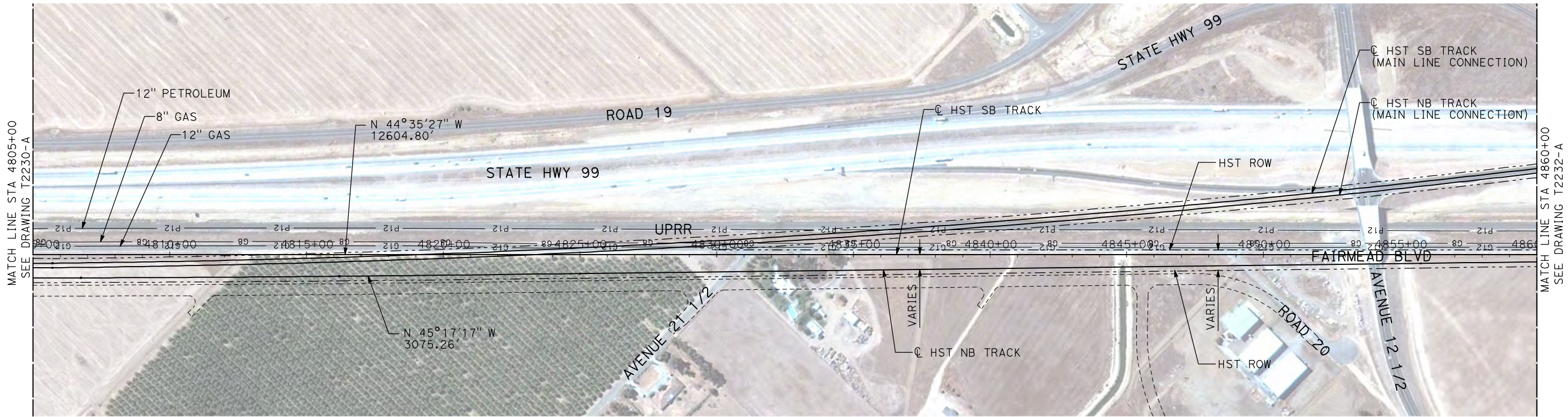
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NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR MAIN LINE
PLAN AND PROFILE STA. 324+00 TO 338+00

CONTRACT NO. HSR 06-0003
DRAWING NO. T2143-A
SCALE AS SHOWN
SHEET NO. XX OF XX

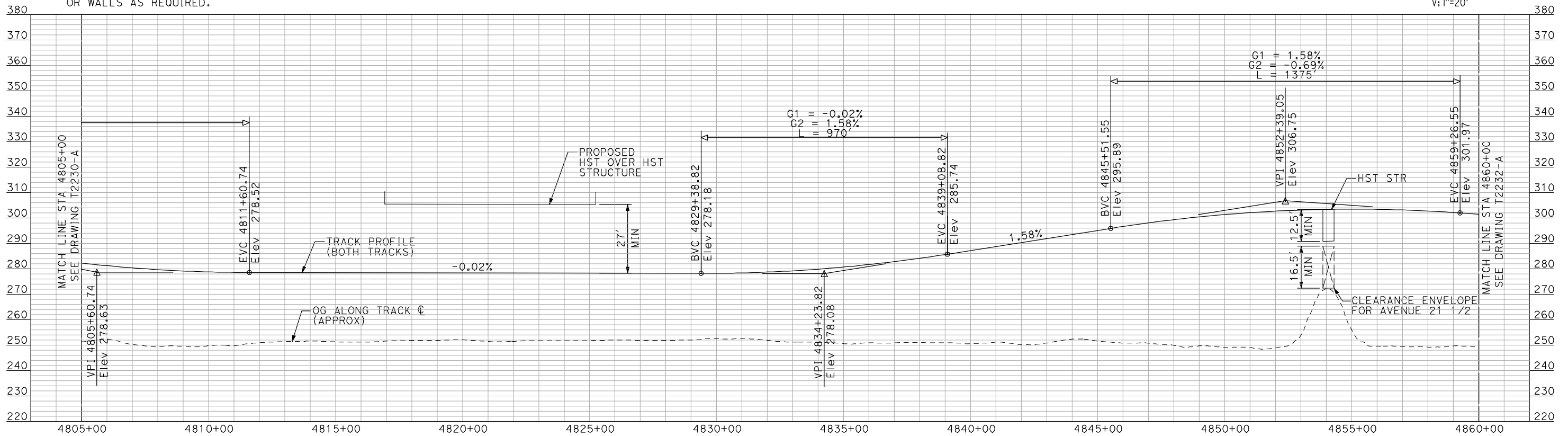
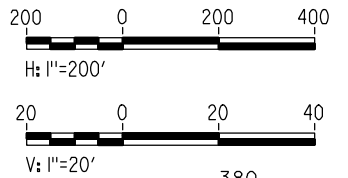
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

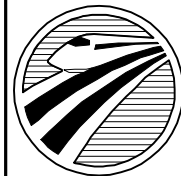
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

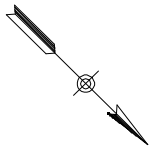
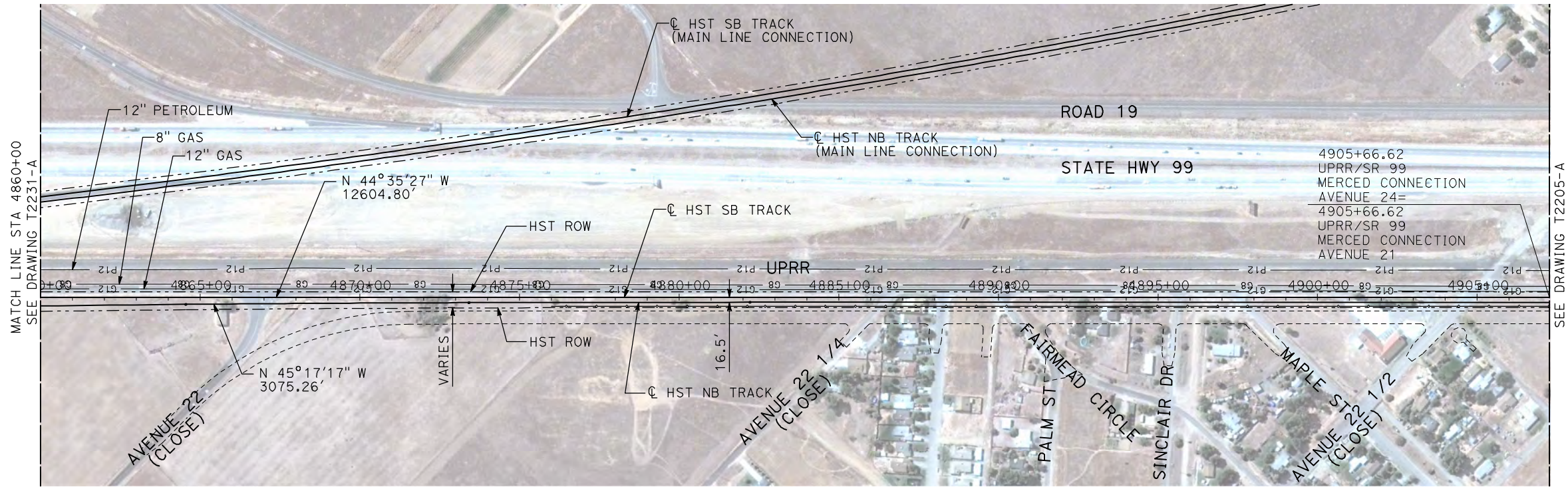
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 4805+00 TO STA 4860+00

CONTRACT NO. HSR06-007
DRAWING NO. T2231-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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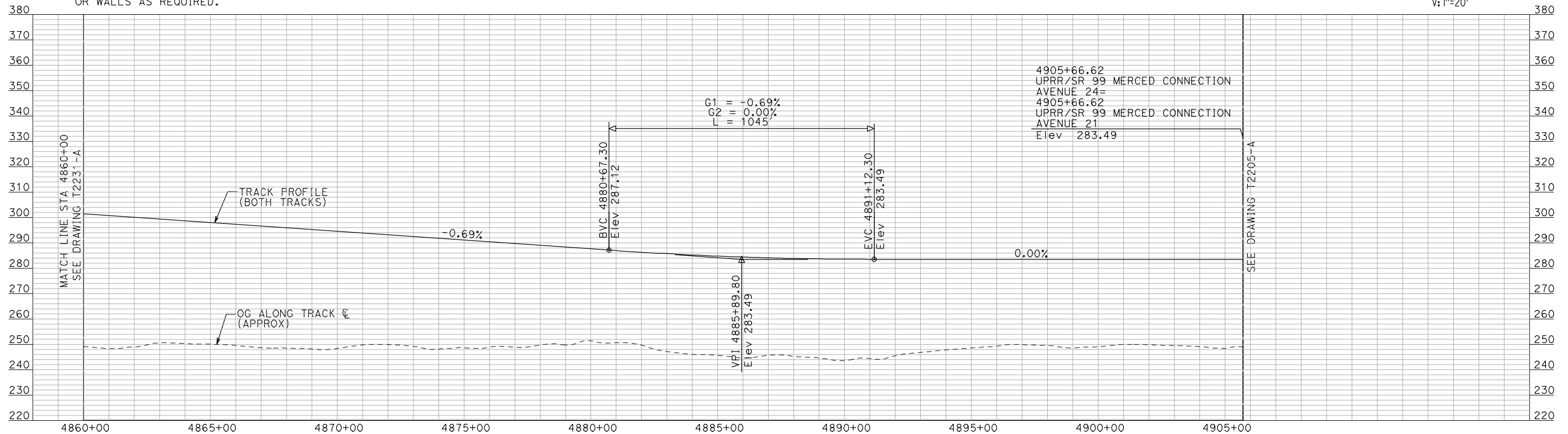
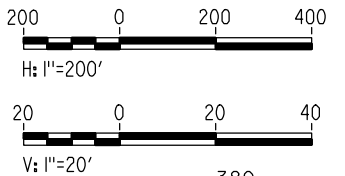
machadoe



NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

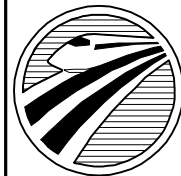
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



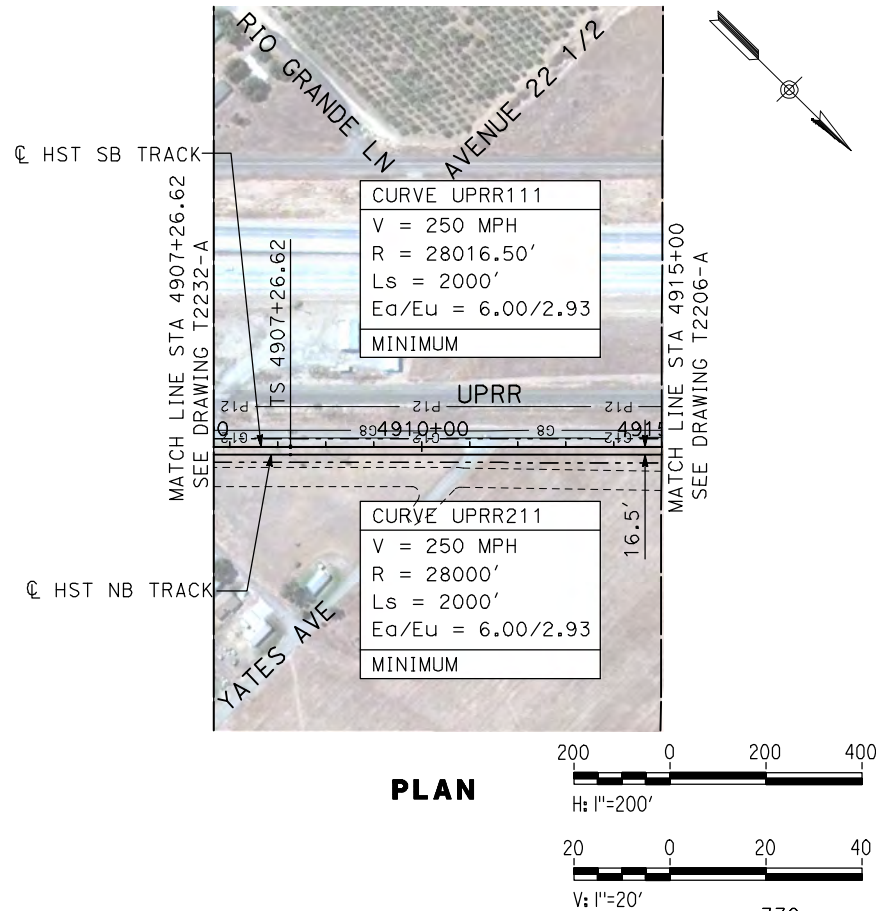
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 4860+00 TO STA 4905+66.62

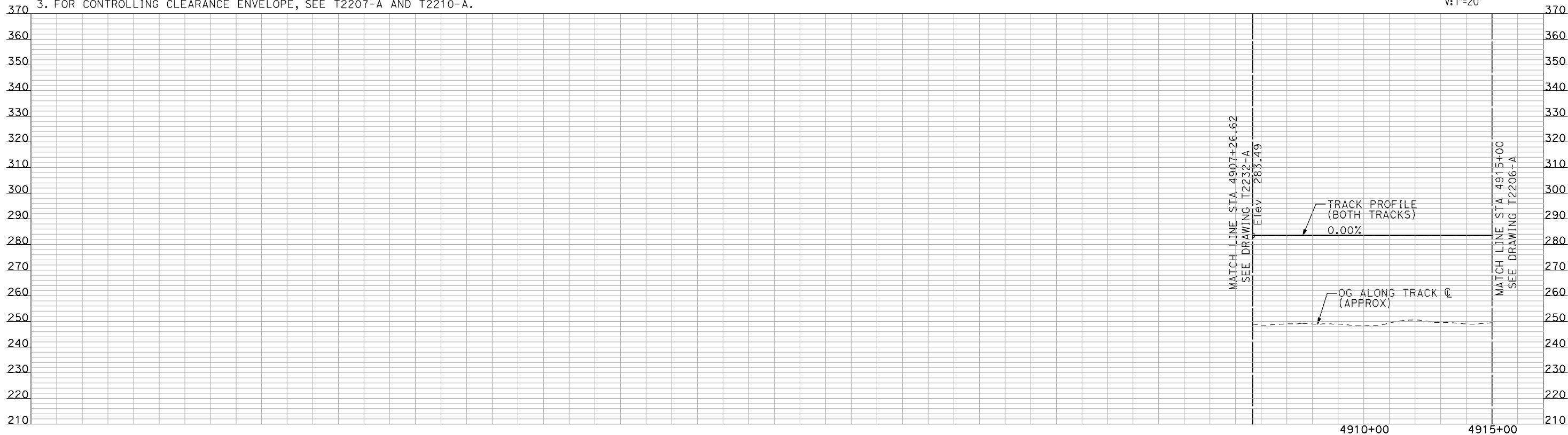
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NOTES:

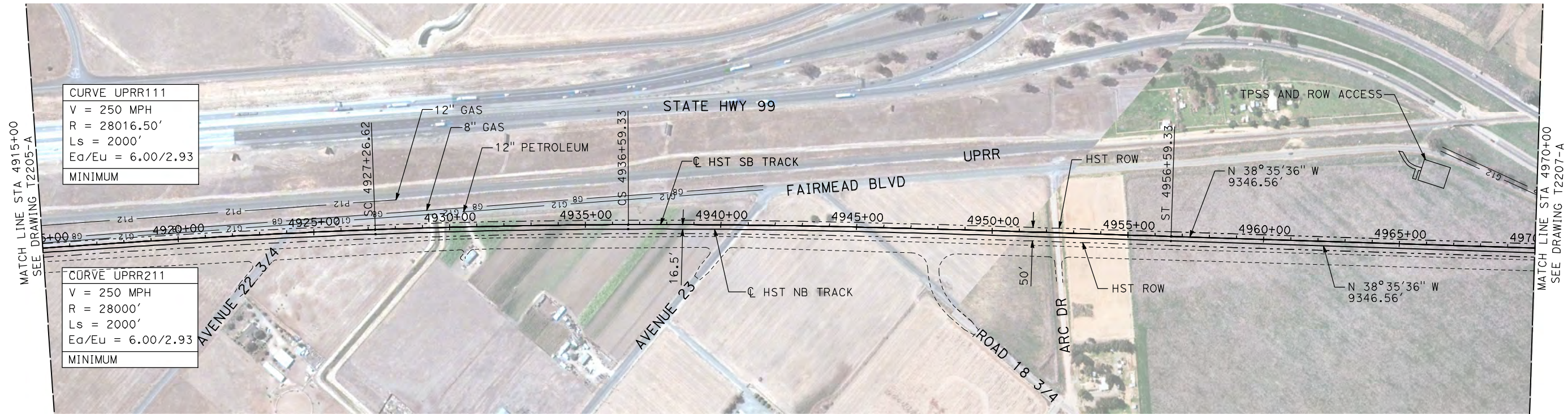
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.
3. FOR CONTROLLING CLEARANCE ENVELOPE, SEE T2207-A AND T2210-A.



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

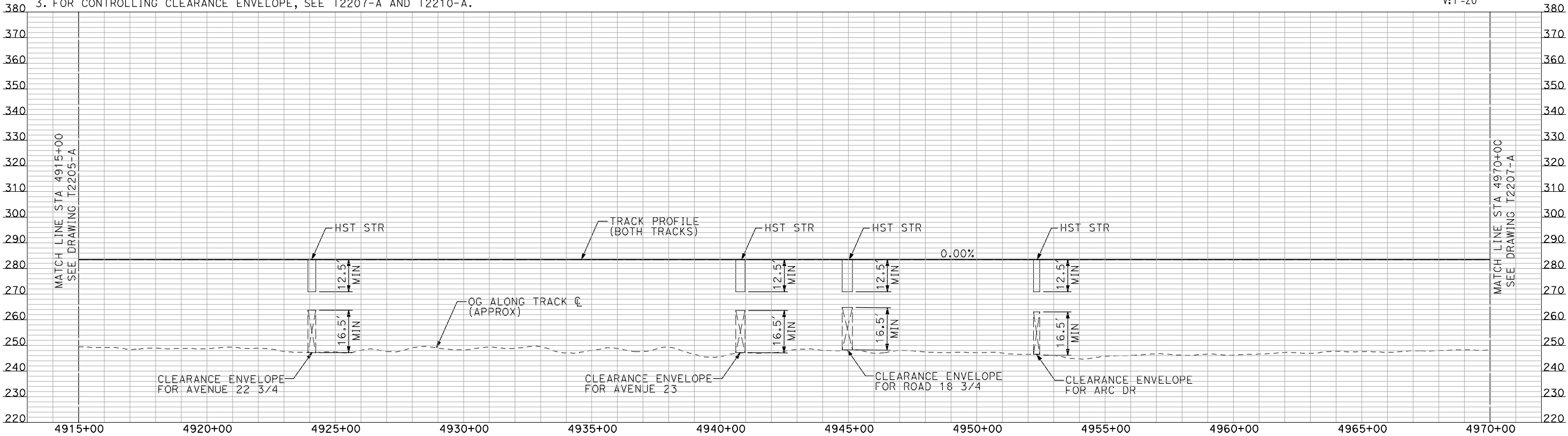
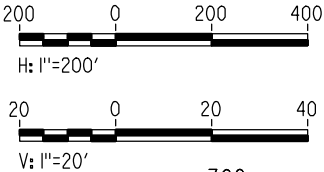
						DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR/SR 99 MERCED CONNECTION PLAN AND PROFILE STA 4905+66.62 TO STA 4915+00	CONTRACT NO. HSR06-007
					DRAWN BY H. SULLIVAN	DRAWING NO. T2205-A					
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					IN CHARGE A. BOONE	SHEET NO. ### OF ###					
					DATE 07/20/2011						
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- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.
 - FOR CONTROLLING CLEARANCE ENVELOPE, SEE T2207-A AND T2210-A.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

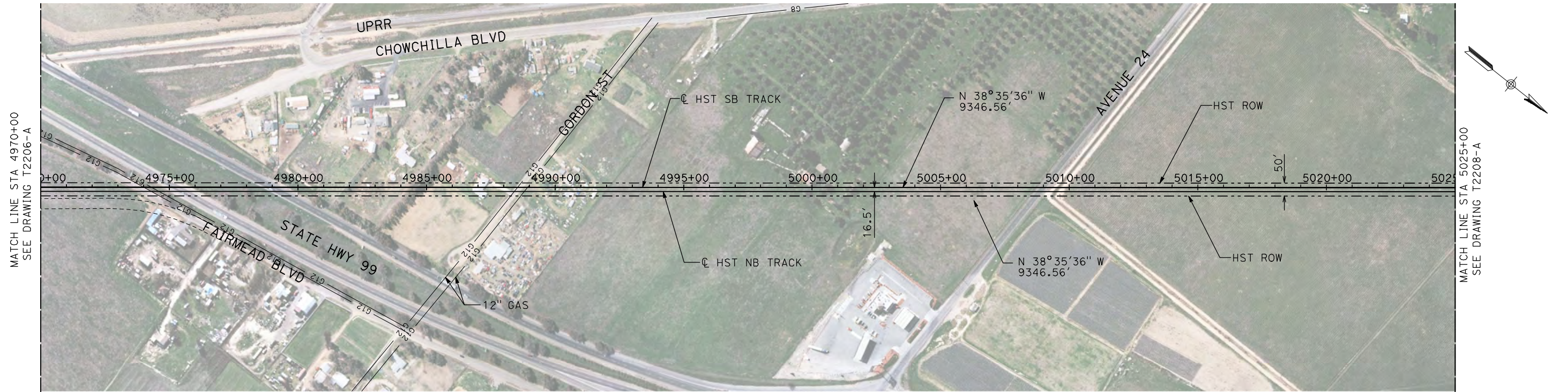
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MERCED CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 4915+00 TO STA 4970+00

CONTRACT NO. HSR06-007
DRAWING NO. T2206-A
SCALE AS SHOWN
SHEET NO. ### OF ###

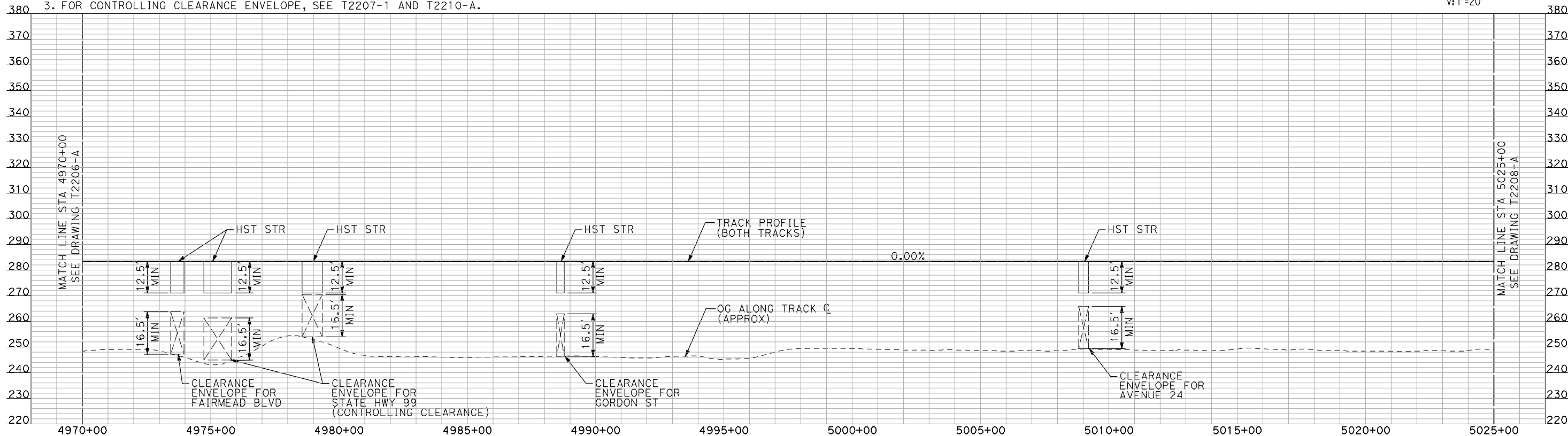
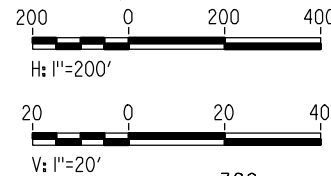
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.
3. FOR CONTROLLING CLEARANCE ENVELOPE, SEE T2207-1 AND T2210-A.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS

DRAWN BY
H. SULLIVAN

CHECKED BY
A. BOONE

IN CHARGE
A. BOONE

DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 4970+00 TO STA 5025+00

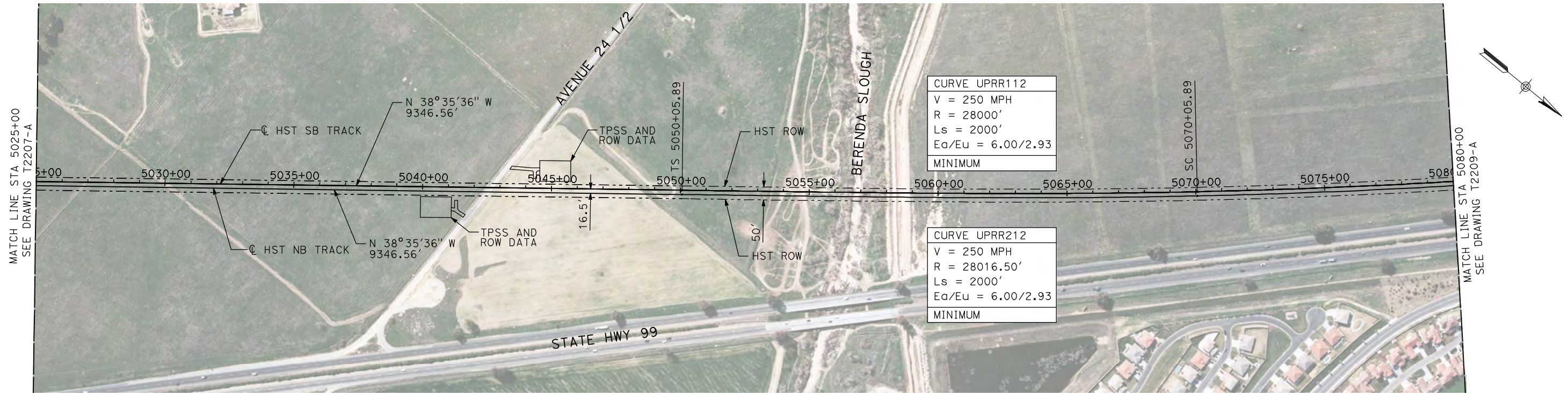
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HSR06-007

DRAWING NO.
T2207-A

SCALE
AS SHOWN

SHEET NO.
OF

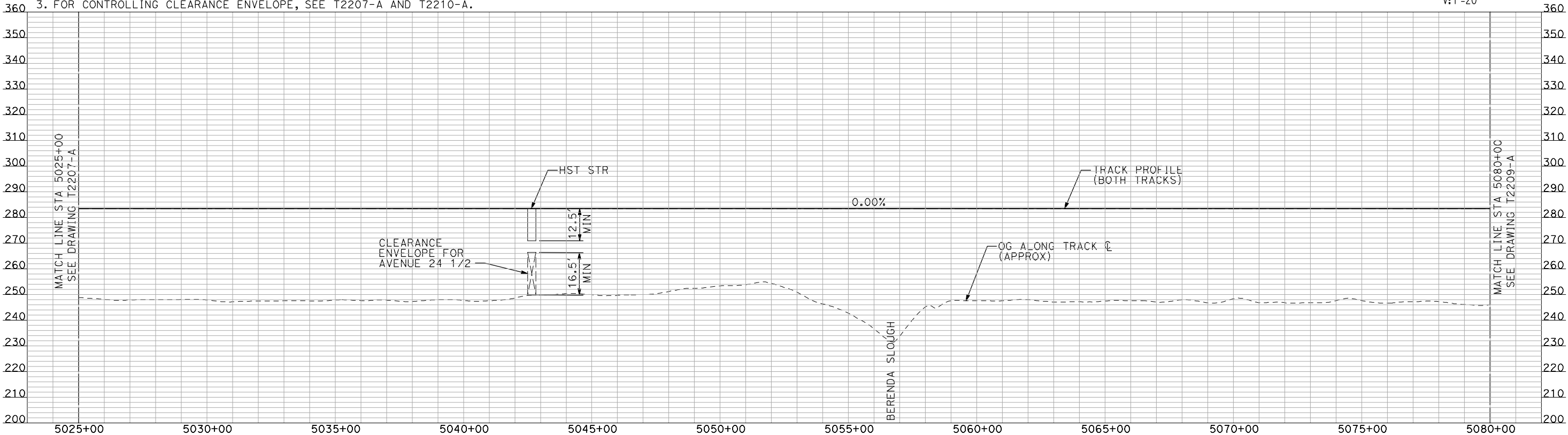
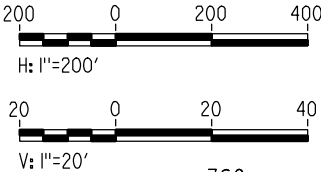
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.
3. FOR CONTROLLING CLEARANCE ENVELOPE, SEE T2207-A AND T2210-A.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

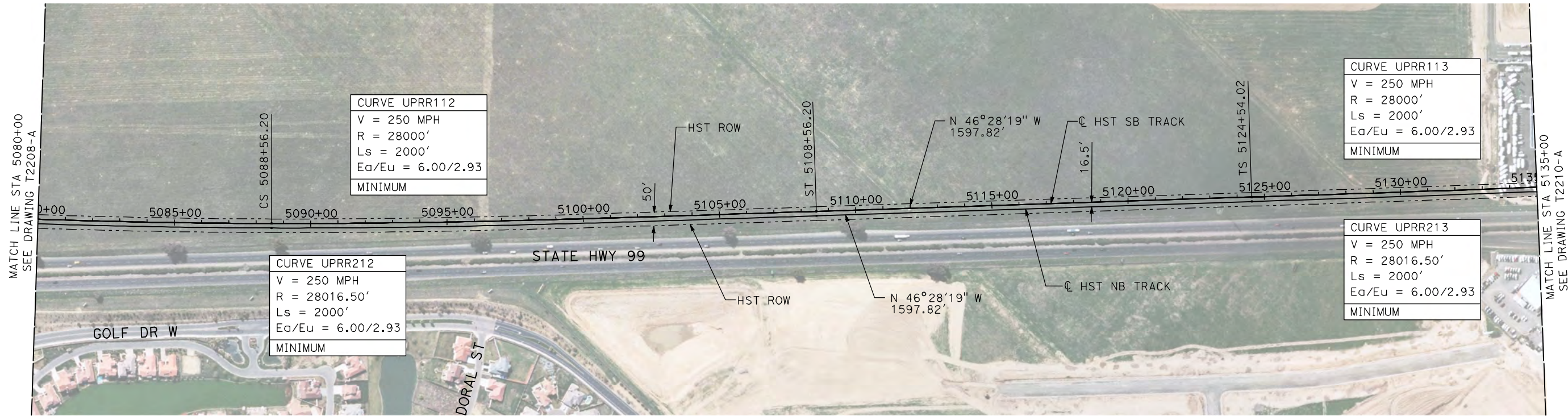


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5025+00 TO STA 5080+00

CONTRACT NO. HSR06-007
DRAWING NO. T2208-A
SCALE AS SHOWN
SHEET NO. ### OF ###

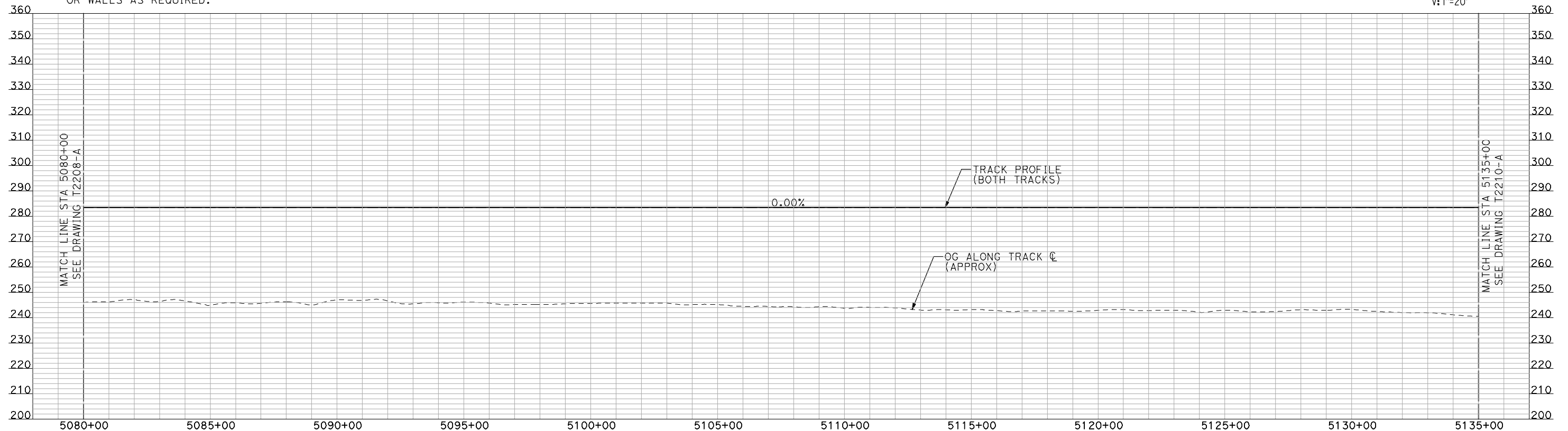
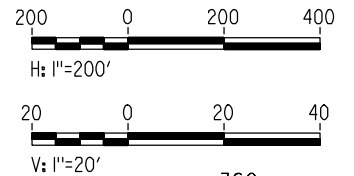
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NOTES:

- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

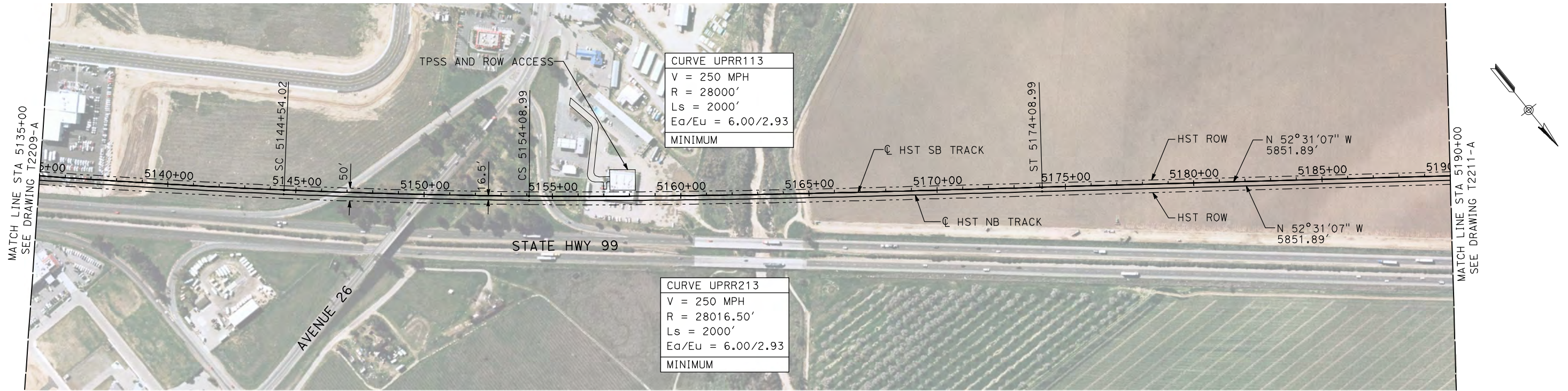
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5080+00 TO STA 5135+00

CONTRACT NO. HSR06-007
DRAWING NO. T2209-A
SCALE AS SHOWN
SHEET NO. ### OF ###

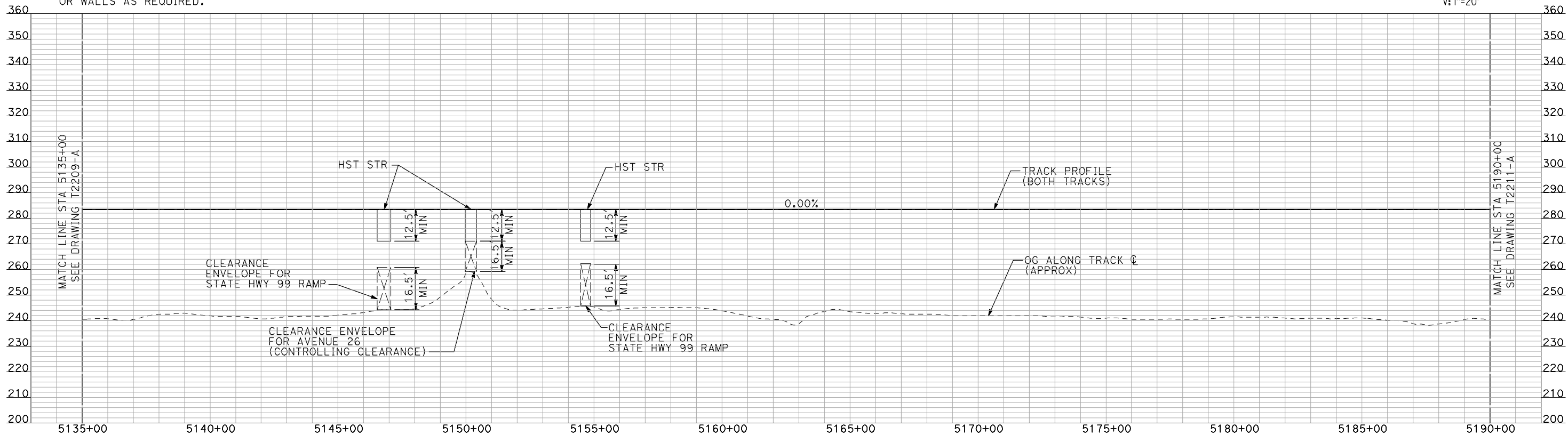
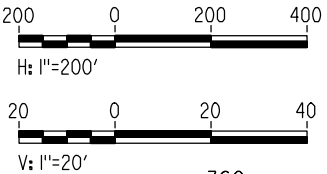
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

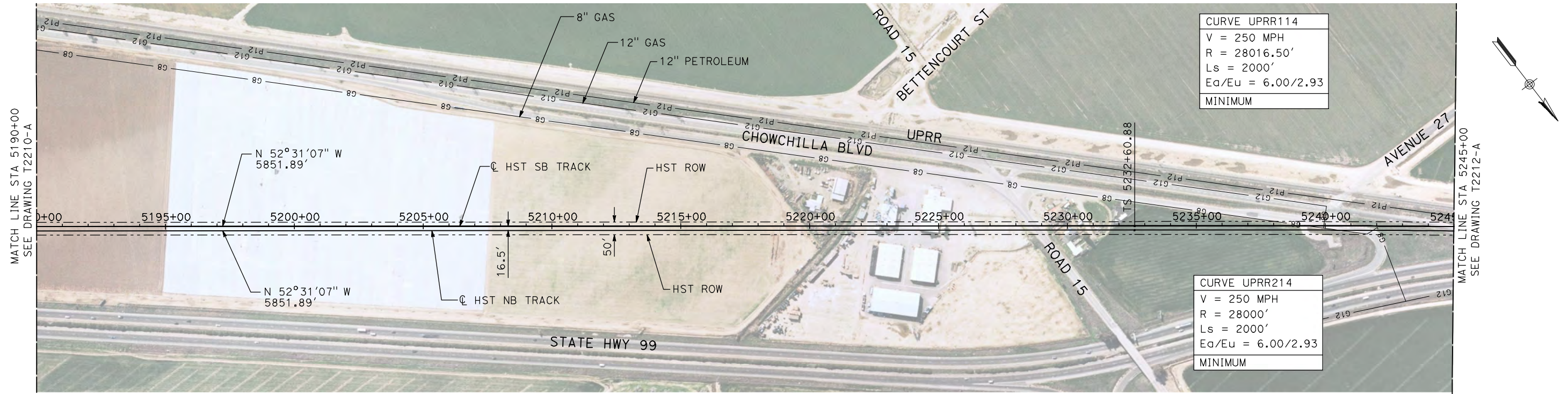
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5135+00 TO STA 5190+00

CONTRACT NO. HSR06-007
DRAWING NO. T2210-A
SCALE AS SHOWN
SHEET NO. ### OF ###

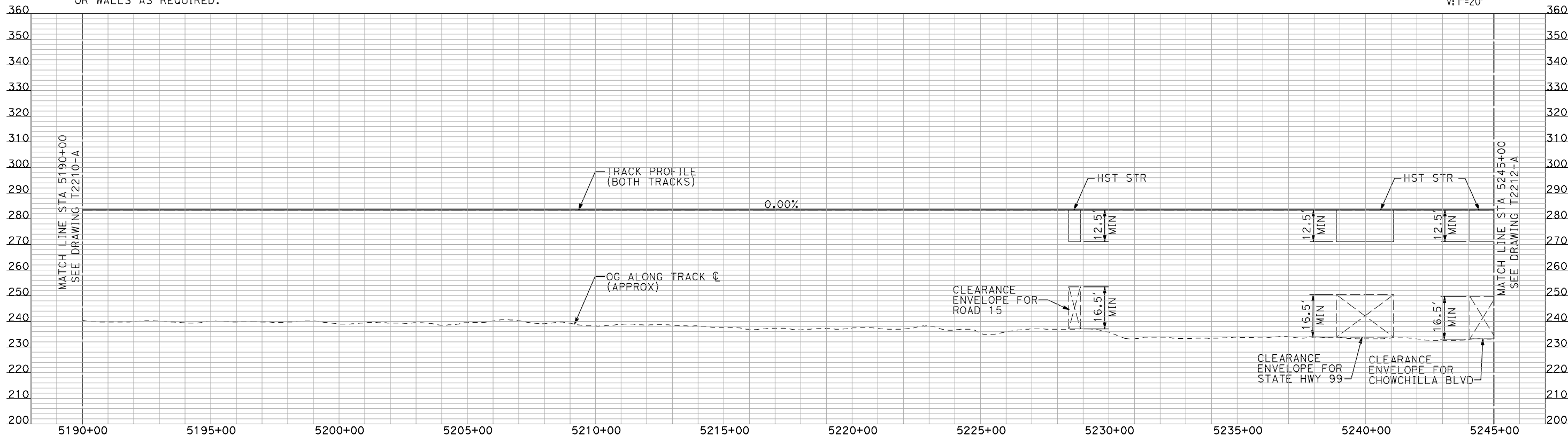
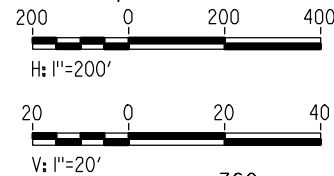
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

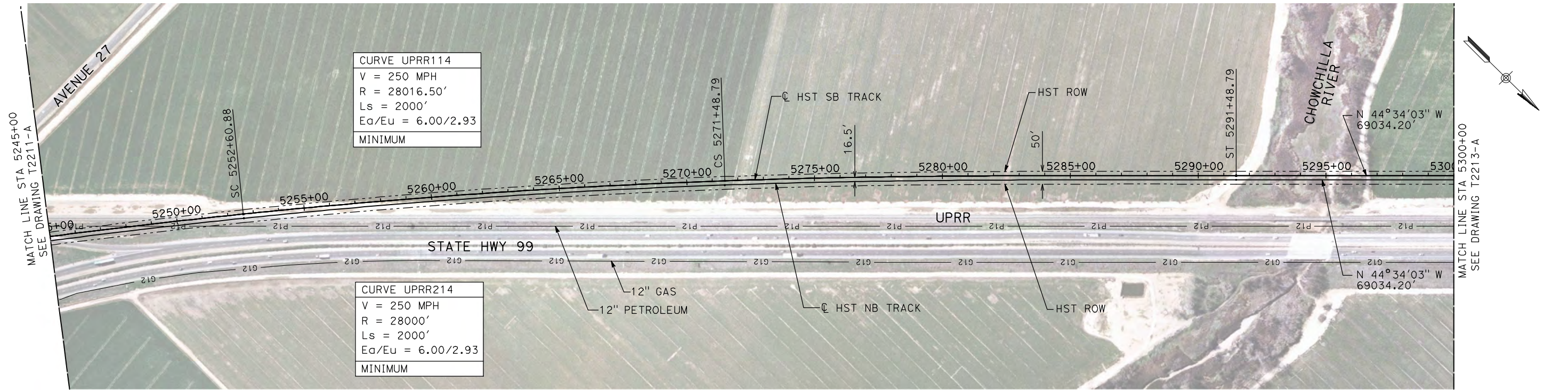
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION
PLAN AND PROFILE
STA 5190+00 TO STA 5245+00

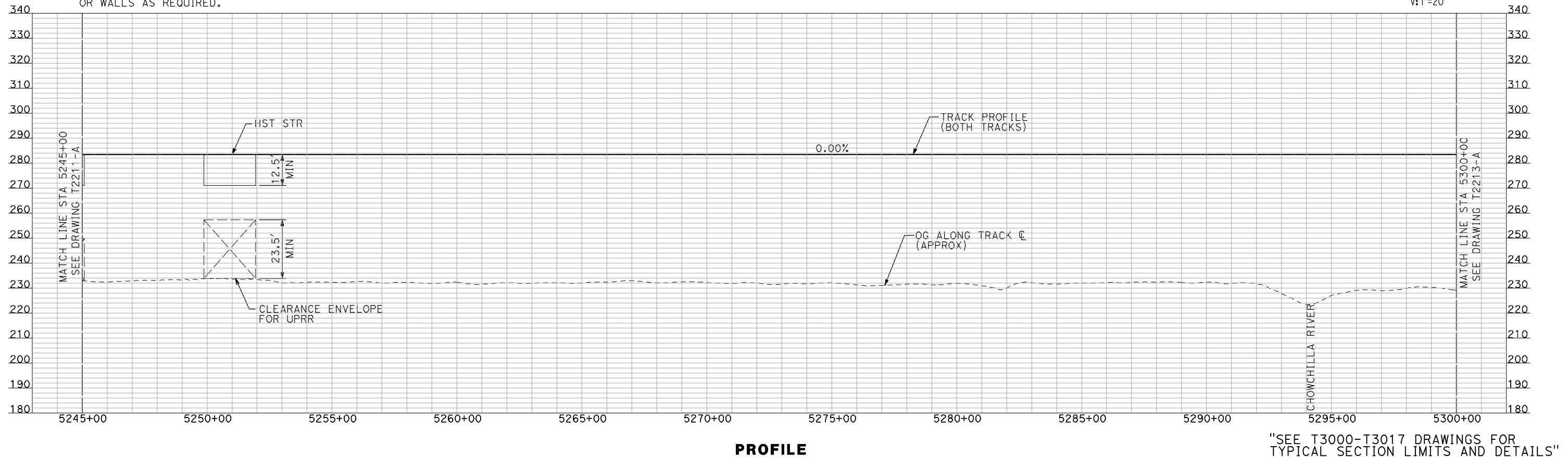
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HSR06-007
DRAWING NO.
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AS SHOWN
SHEET NO.
OF

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NOTES:

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DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

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CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



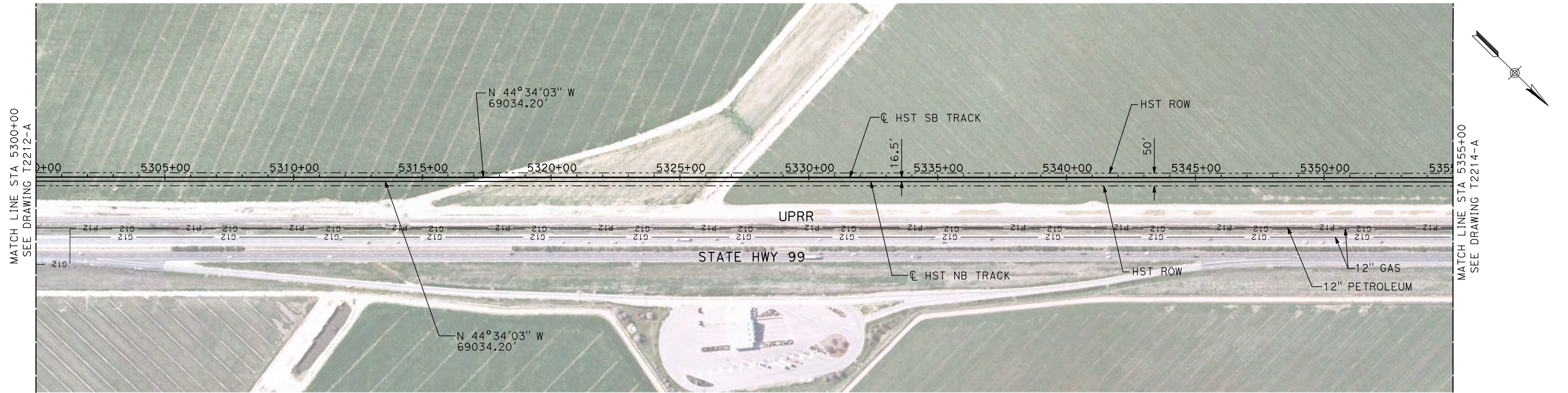
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5245+00 TO STA 5300+00

CONTRACT NO. HSR06-007
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SCALE AS SHOWN
SHEET NO. ### OF ###

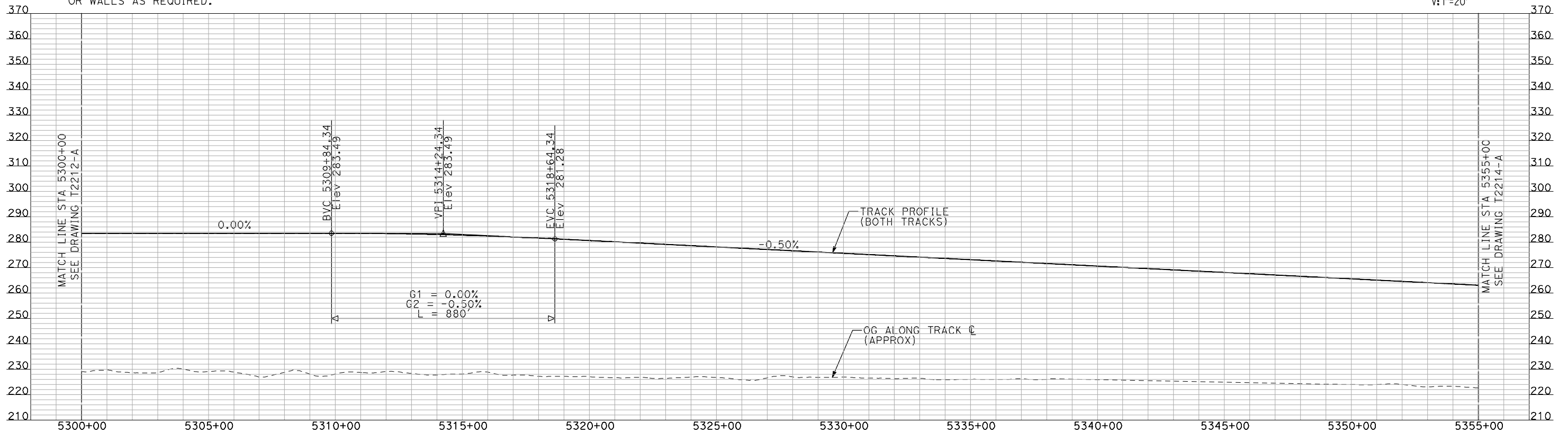
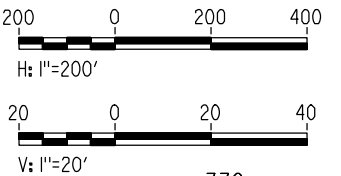
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PLAN



PROFILE

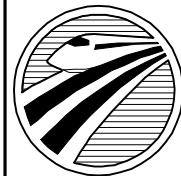
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA
HIGH-SPEED RAIL AUTHORITY**

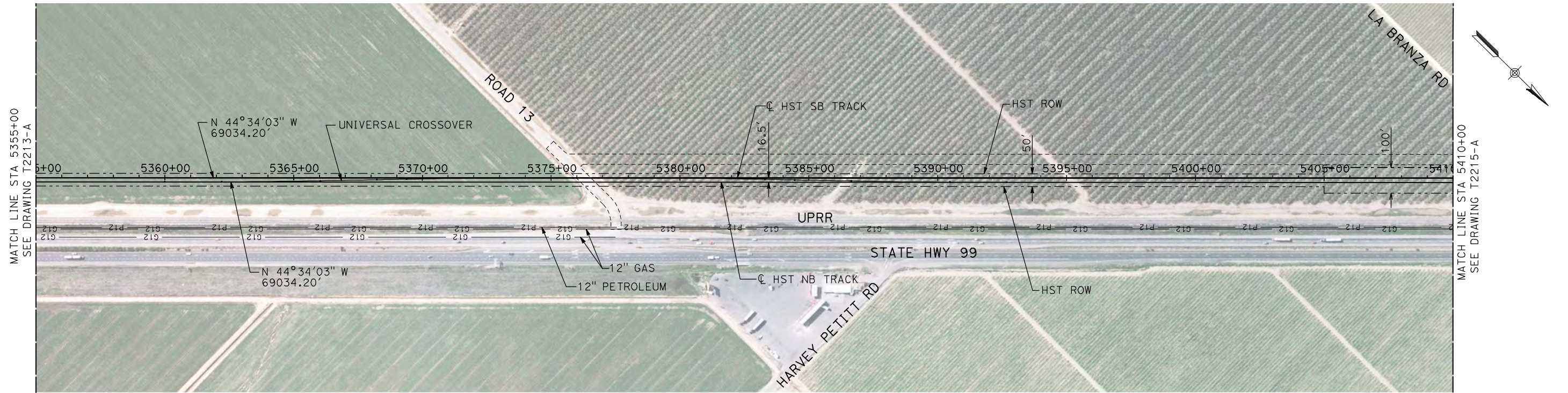
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5300+00 TO STA 5355+00

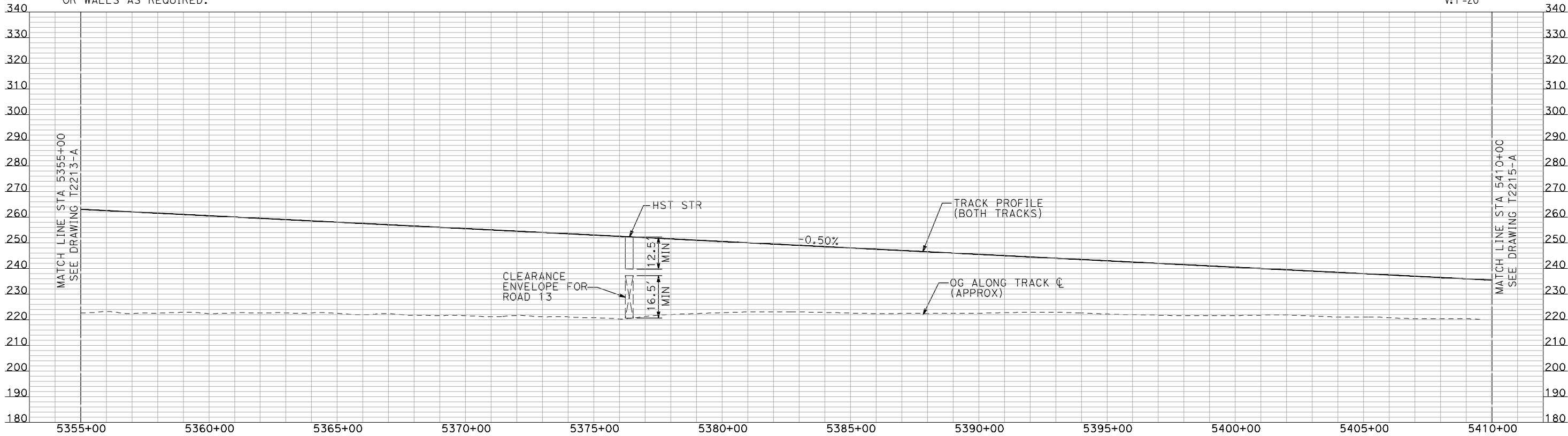
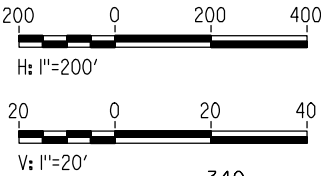
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NOTES:

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"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

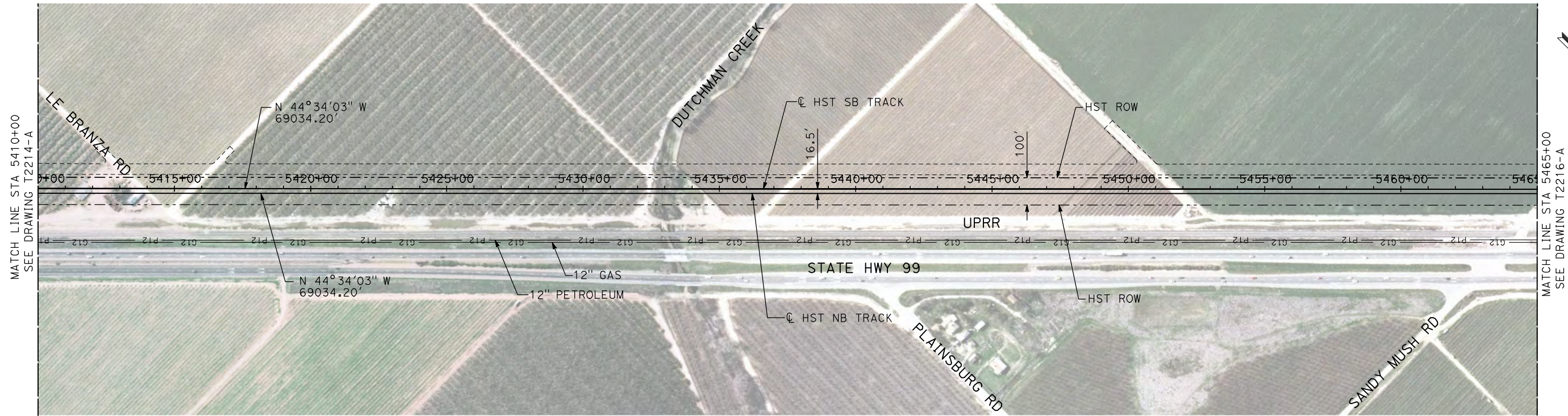
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5355+00 TO STA 5410+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2214-A
SCALE
AS SHOWN
SHEET NO.
OF

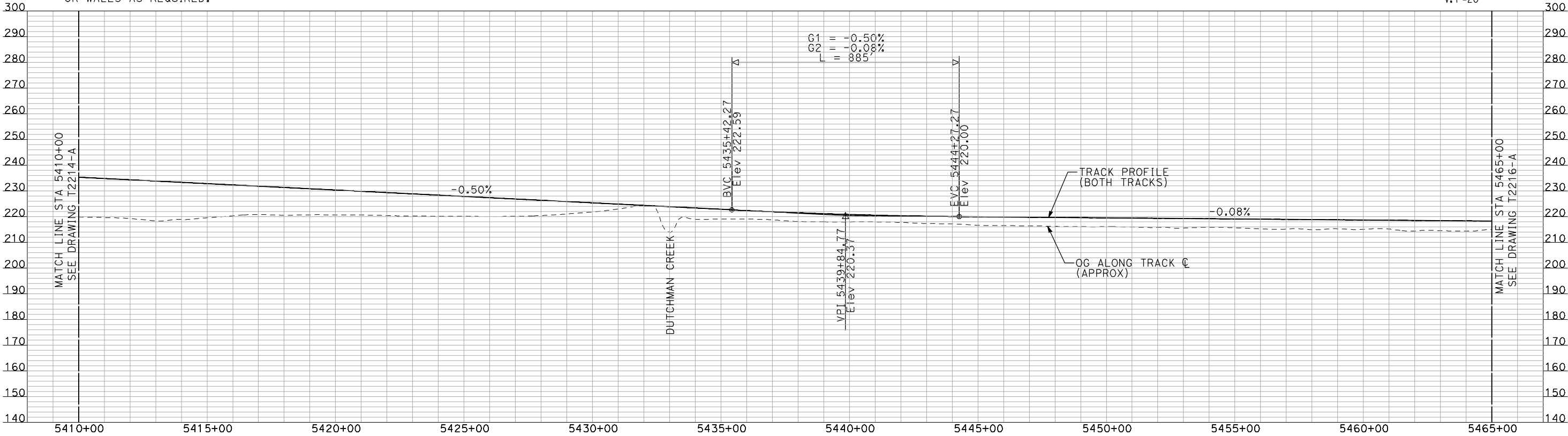
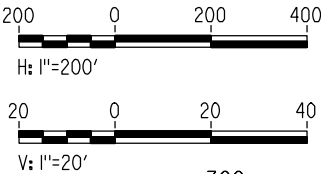
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
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DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

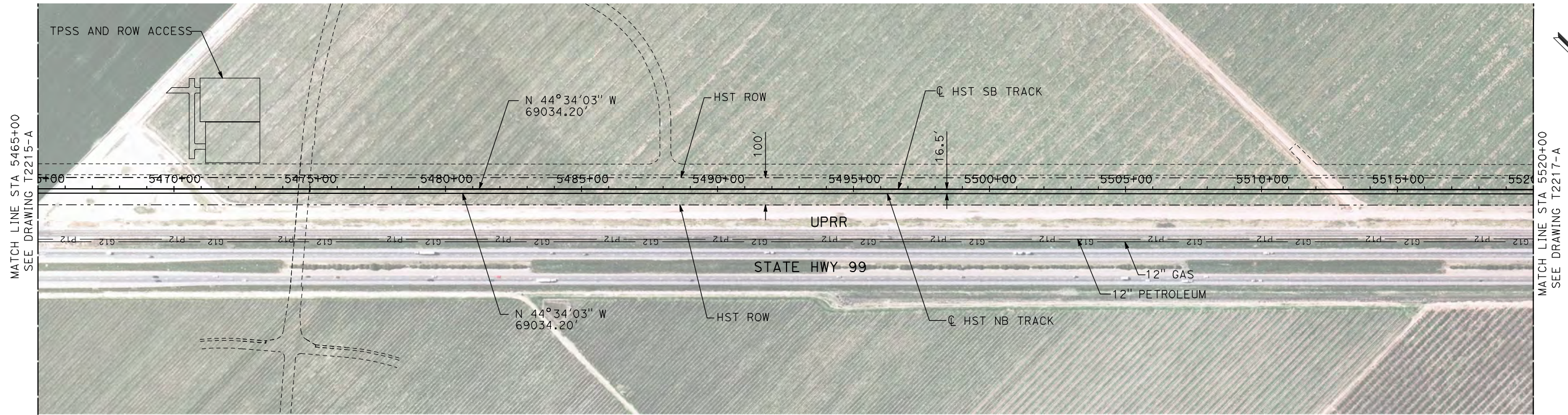


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5410+00 TO STA 5465+00

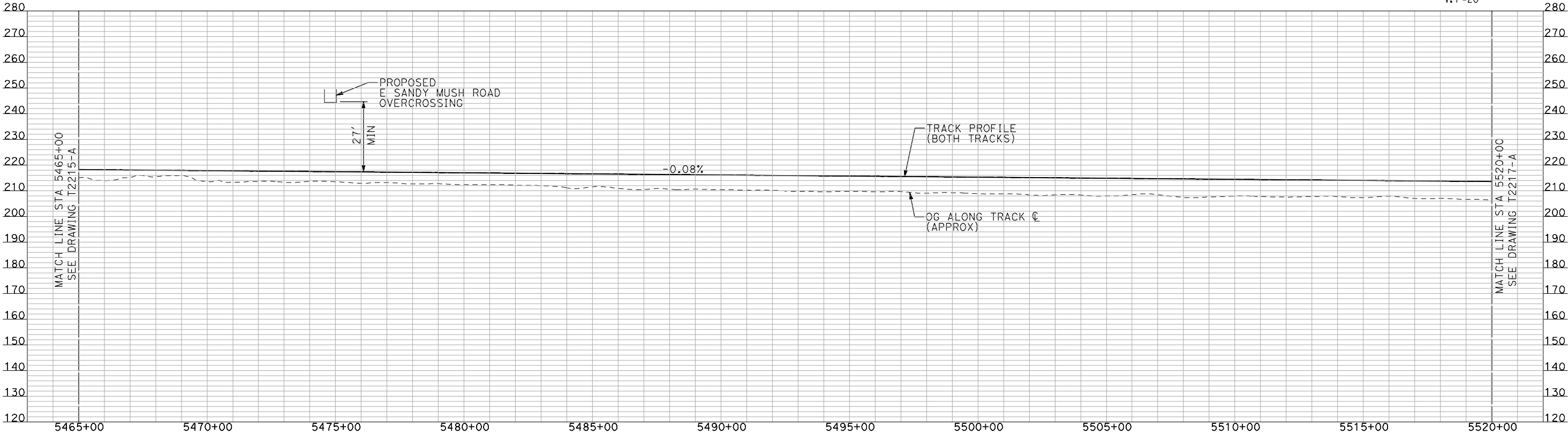
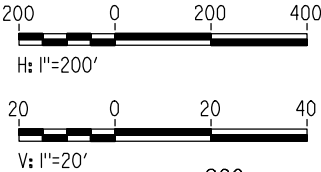
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DRAWING NO. T2215-A
SCALE AS SHOWN
SHEET NO. ### OF ###



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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



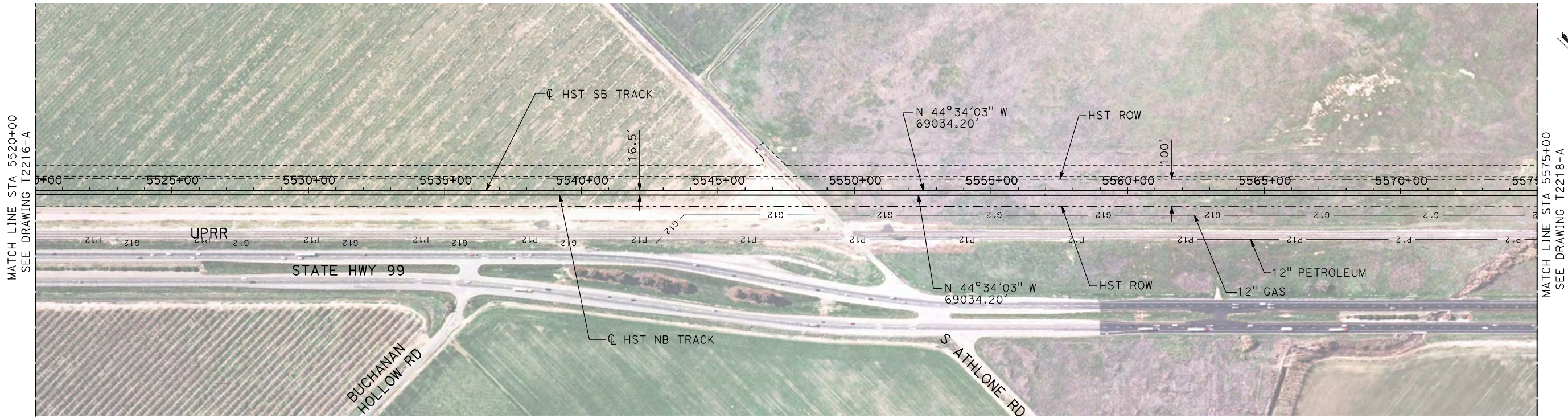
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5465+00 TO STA 5520+00

CONTRACT NO. HSR06-007
DRAWING NO. T2216-A
SCALE AS SHOWN
SHEET NO. ### OF ###

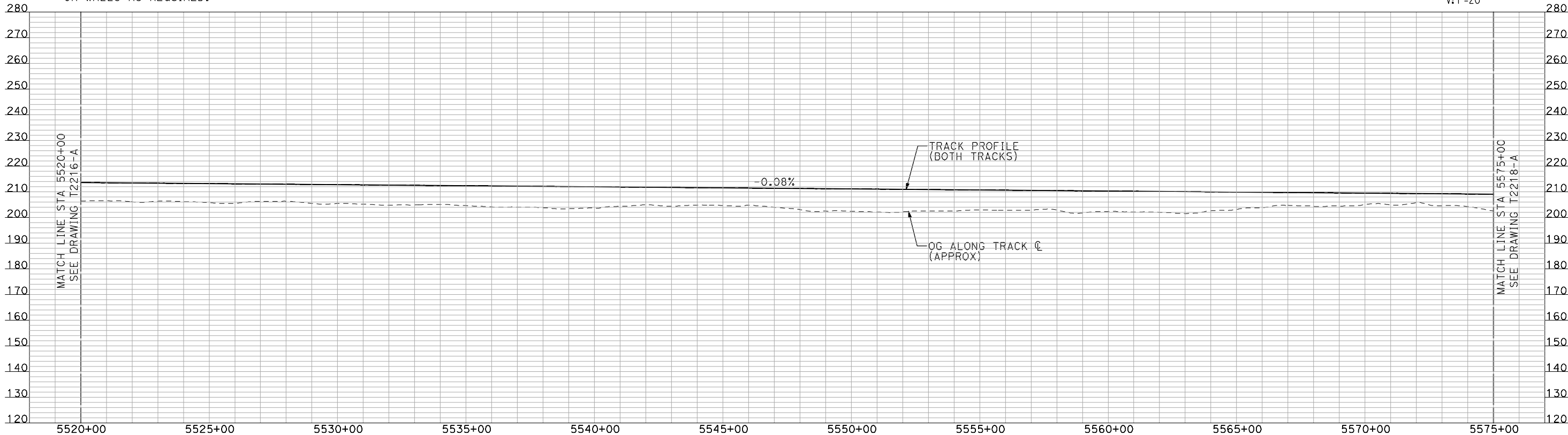
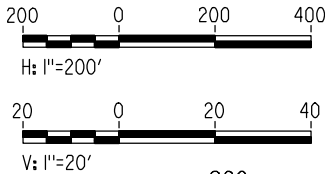
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

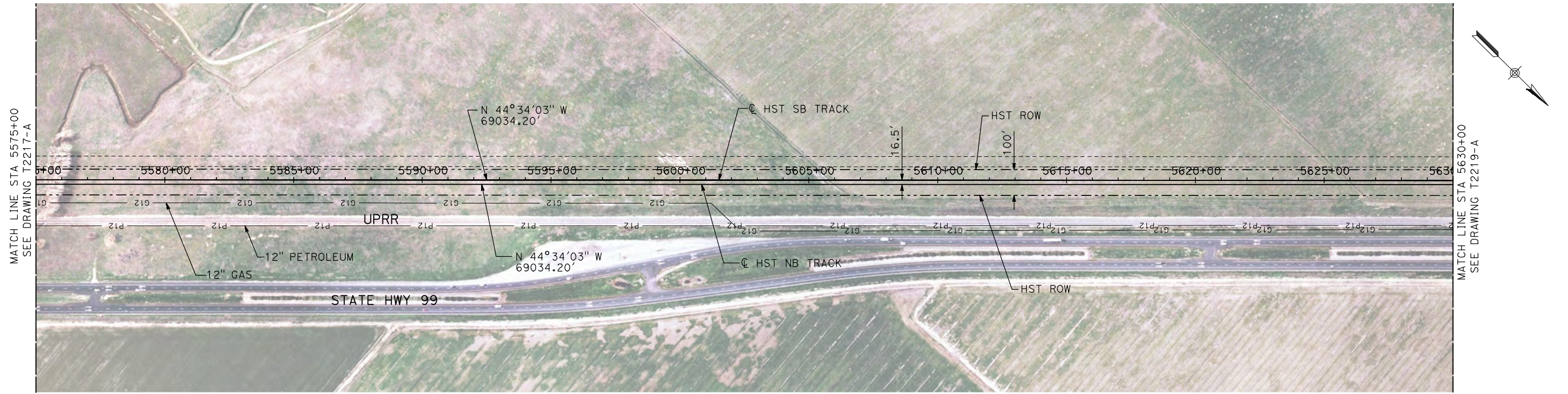
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5520+00 TO STA 5575+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2217-A
SCALE
AS SHOWN
SHEET NO.
OF

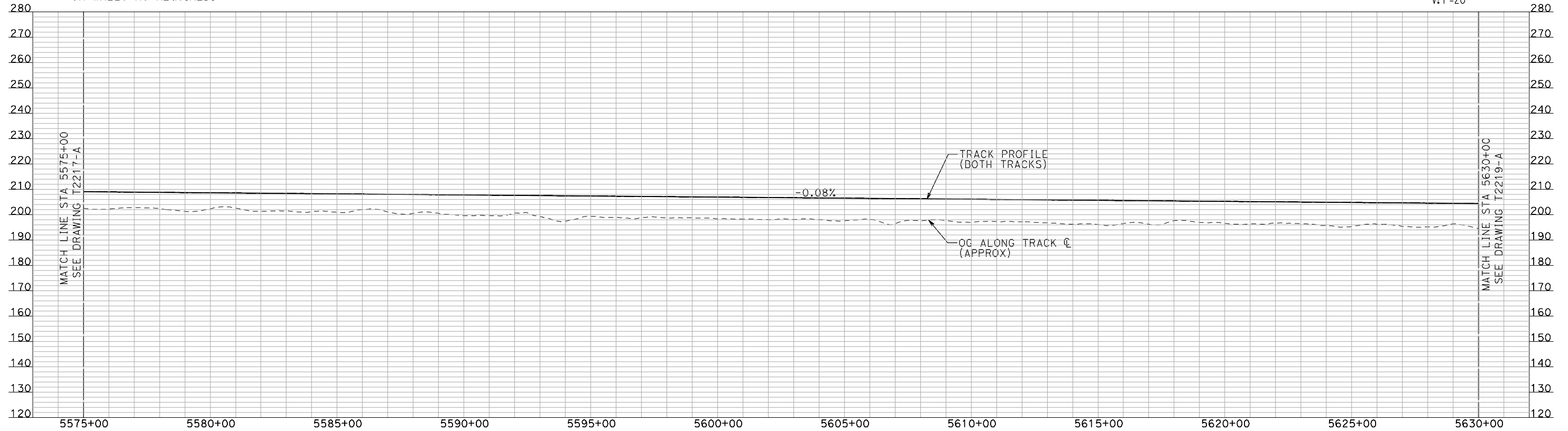
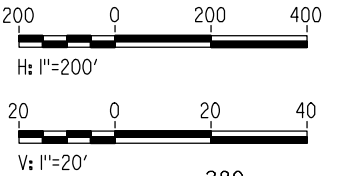
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



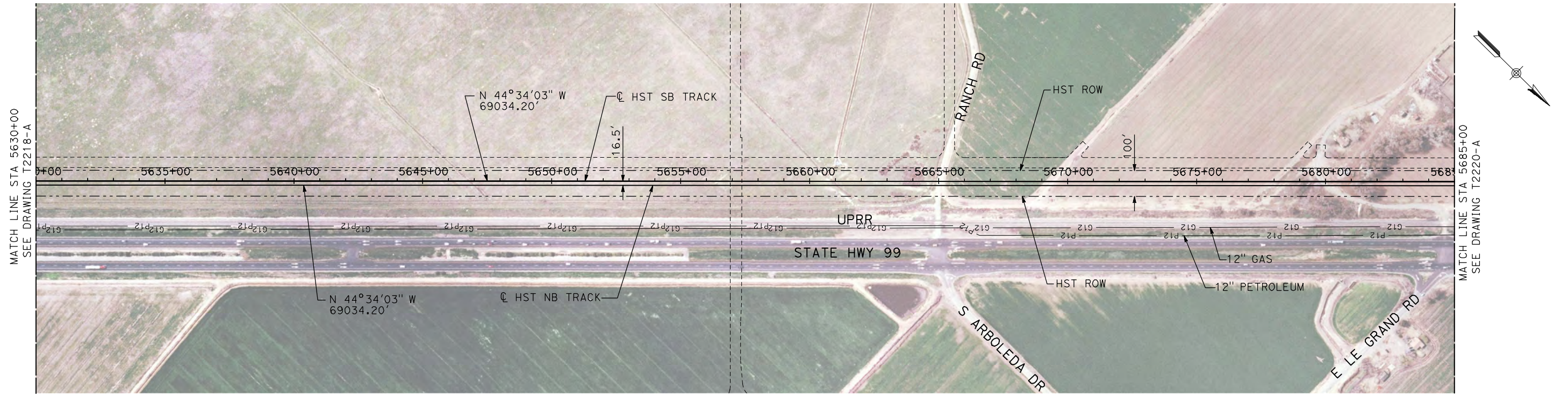
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5575+00 TO STA 5630+00

CONTRACT NO. HSR06-007
DRAWING NO. T2218-A
SCALE AS SHOWN
SHEET NO. ### OF ###

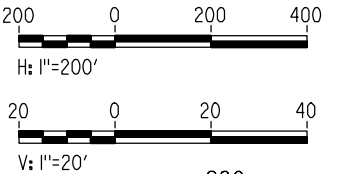
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



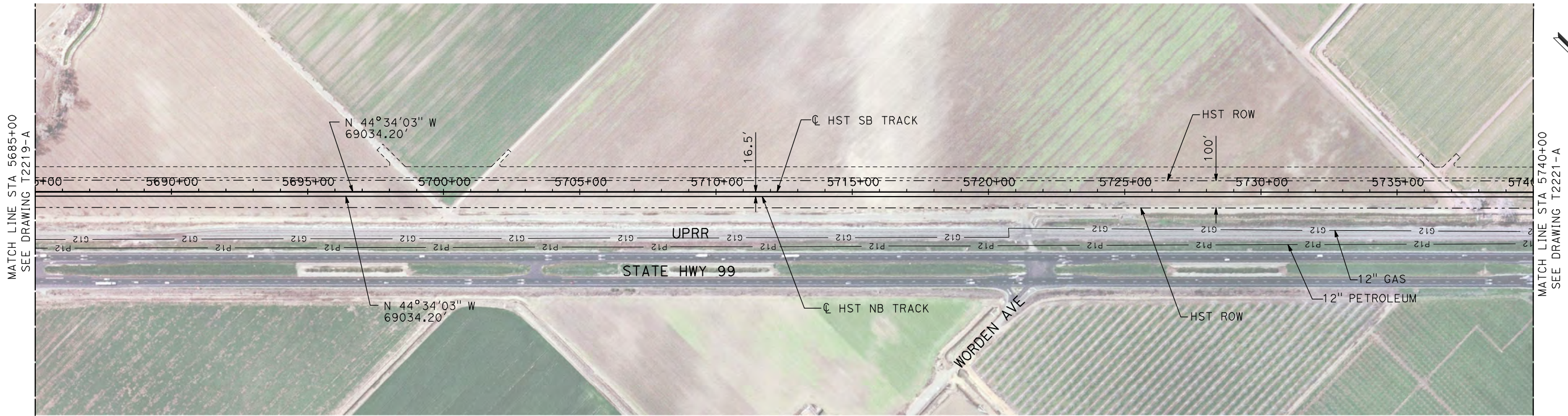
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5630+00 TO STA 5685+00

CONTRACT NO. HSR06-007
DRAWING NO. T2219-A
SCALE AS SHOWN
SHEET NO. ### OF ###

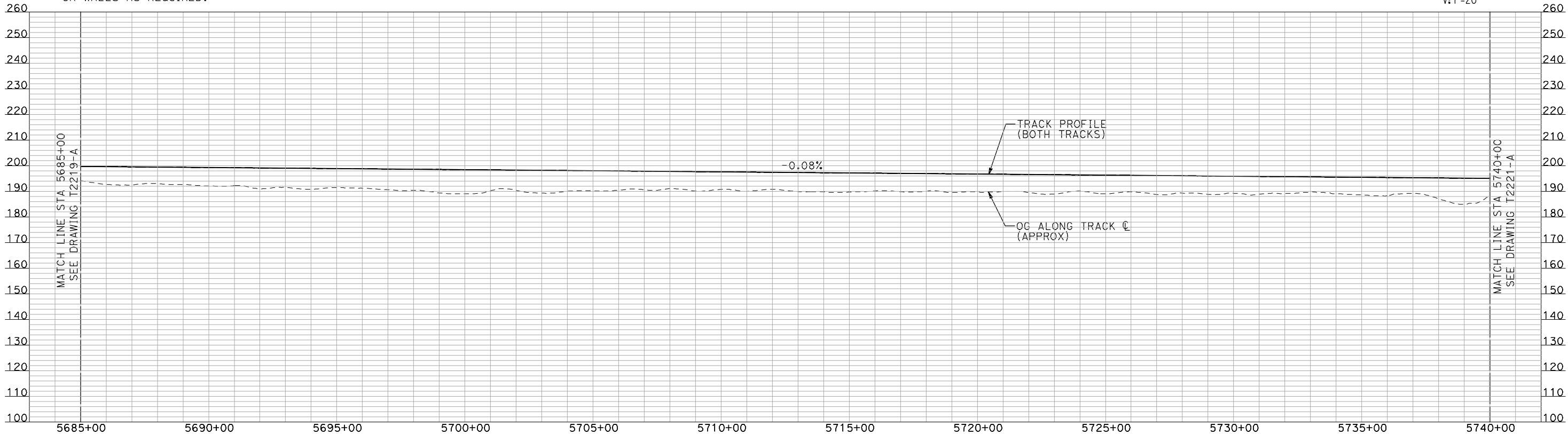
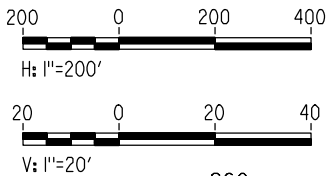
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PLAN



PROFILE

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REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

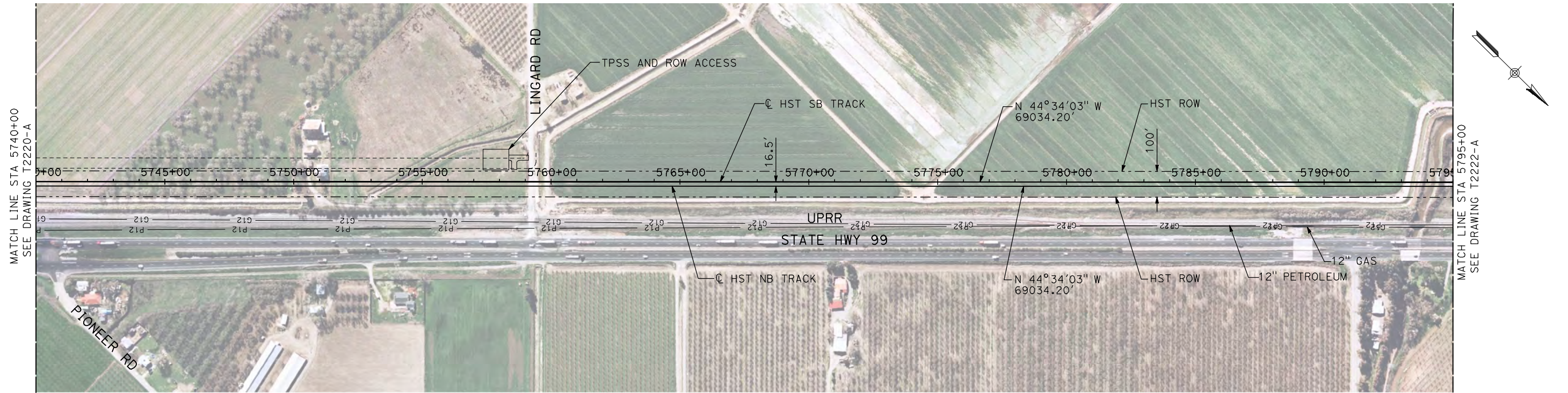
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5685+00 TO STA 5740+00

CONTRACT NO. HSR06-007
DRAWING NO. T2220-A
SCALE AS SHOWN
SHEET NO. ### OF ###

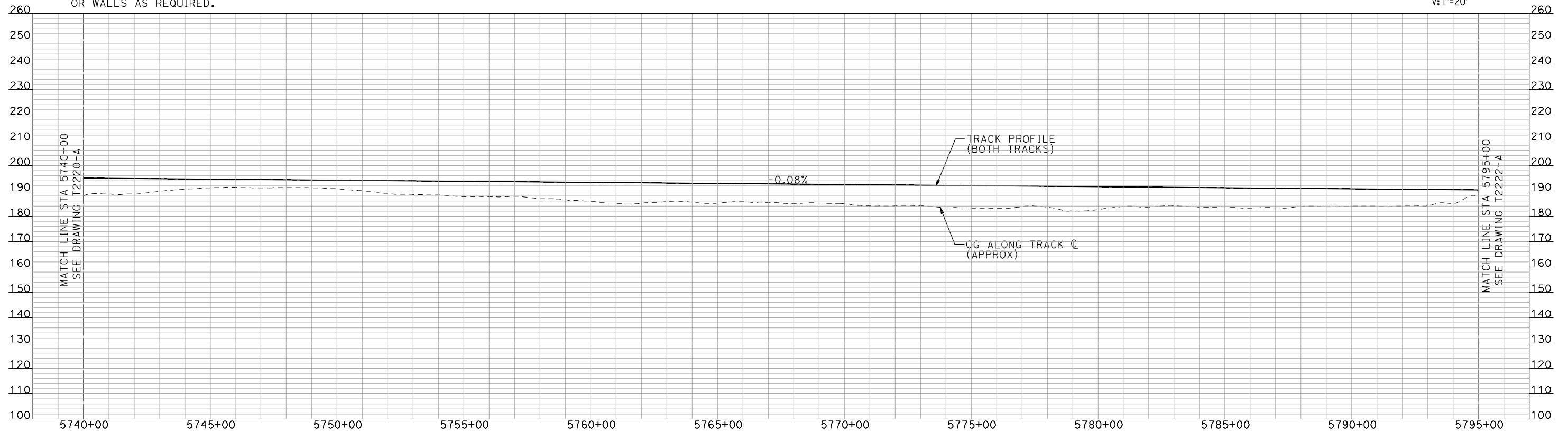
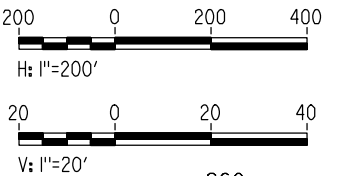
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NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



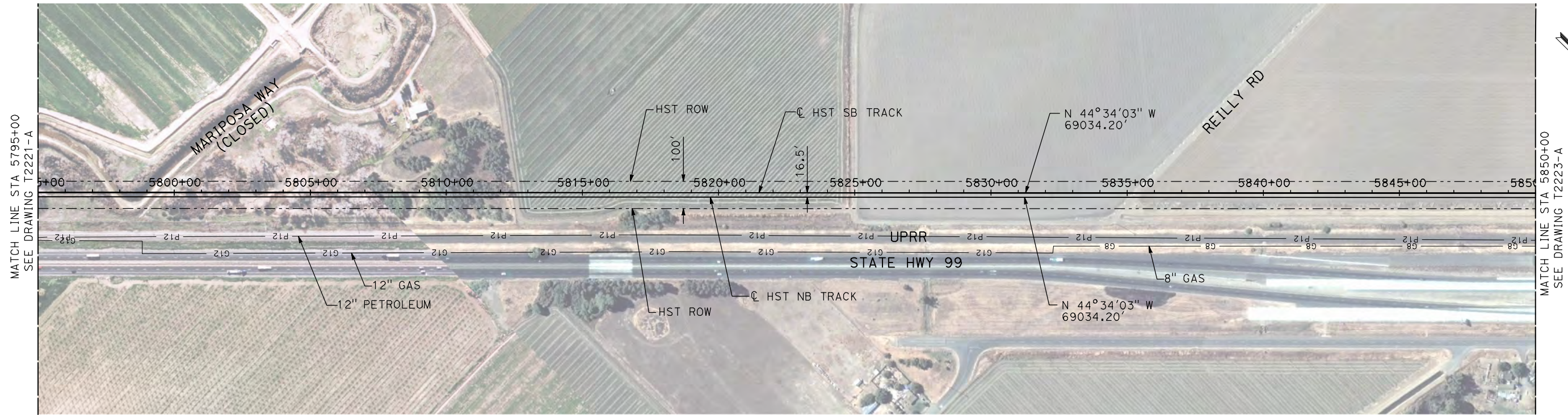
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5740+00 TO STA 5795+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2221-A
SCALE
AS SHOWN
SHEET NO.
OF

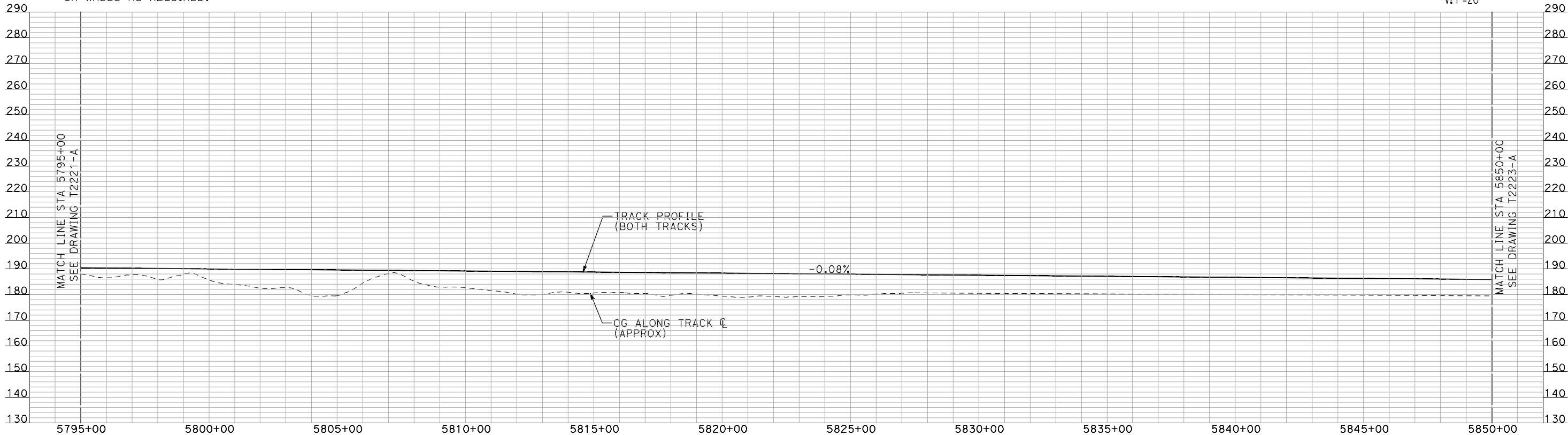
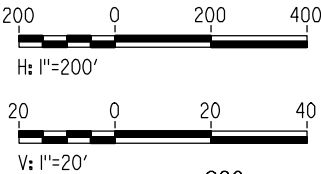
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

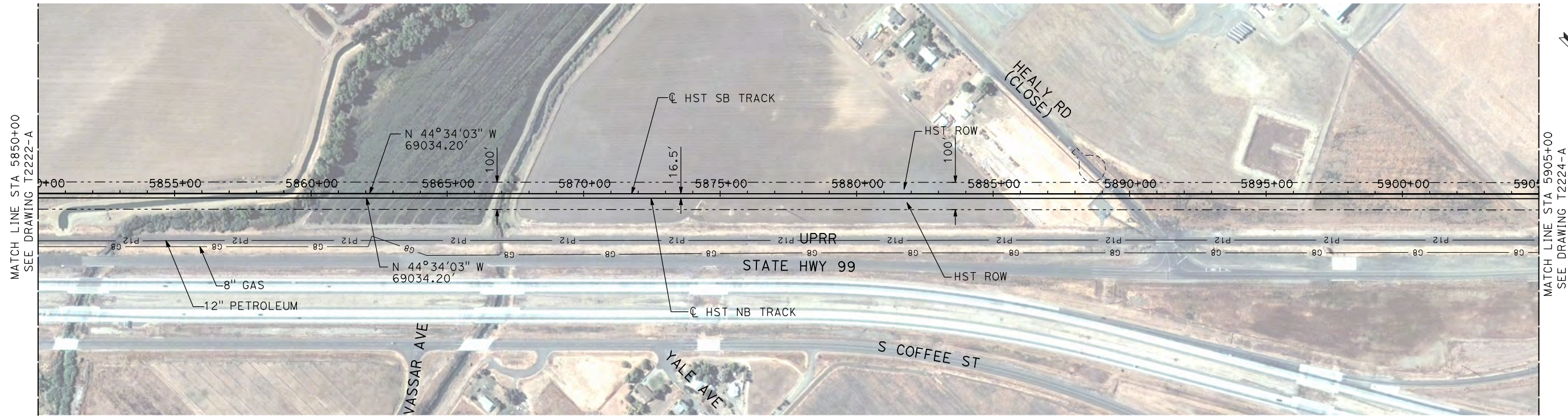
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5795+00 TO STA 5850+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2222-A
SCALE
AS SHOWN
SHEET NO.
OF

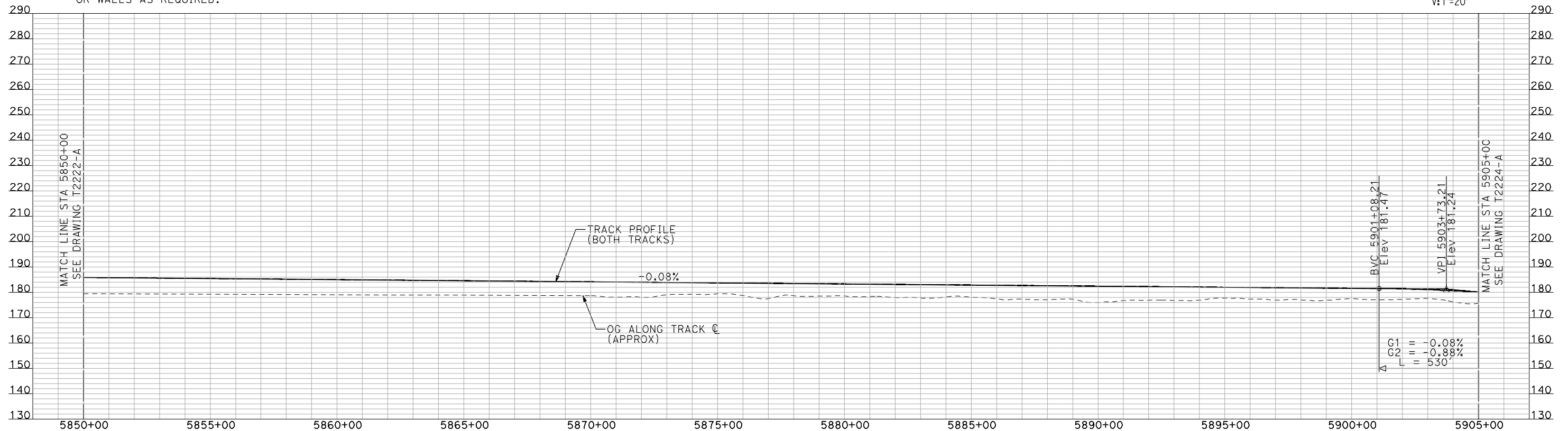
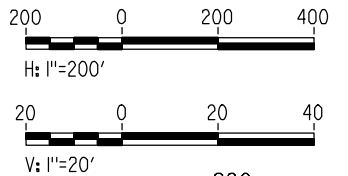
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

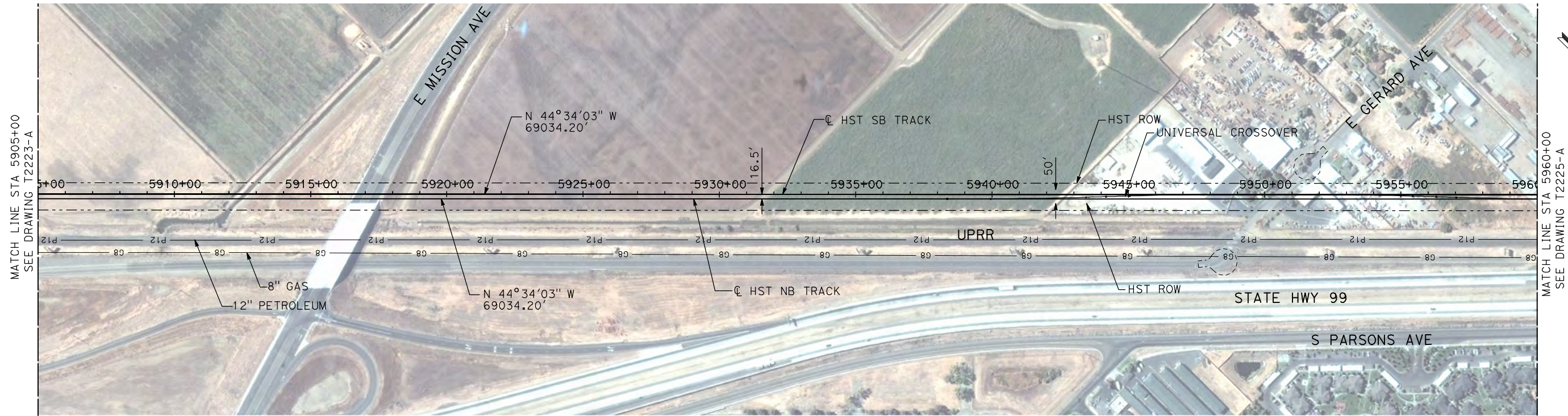
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5850+00 TO STA 5905+00

CONTRACT NO. HSR06-007
DRAWING NO. T2223-A
SCALE AS SHOWN
SHEET NO. ### OF ###

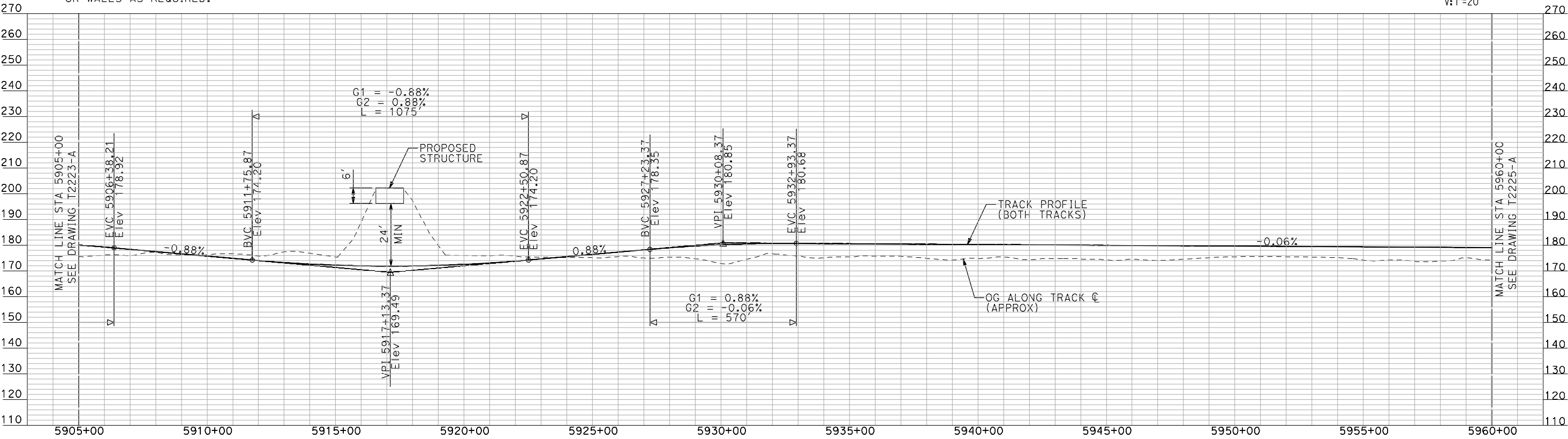
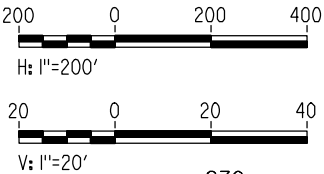
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NOTES:

- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL

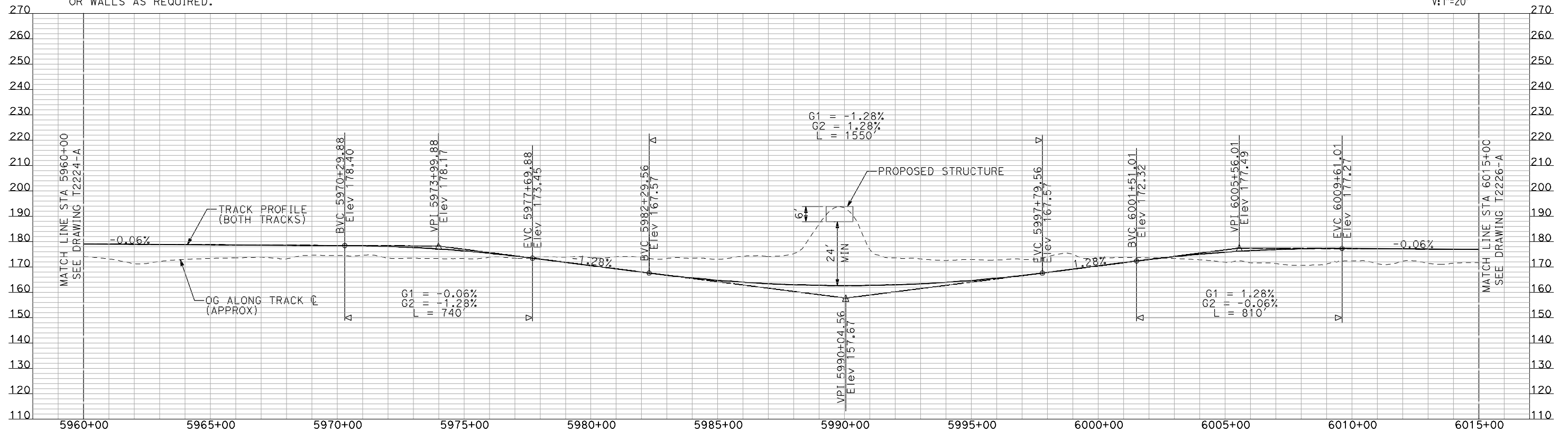
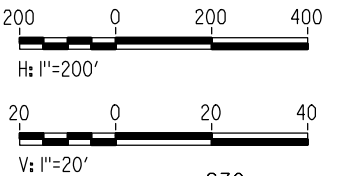


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5905+00 TO STA 5960+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2224-A
SCALE
AS SHOWN
SHEET NO.
OF

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"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL

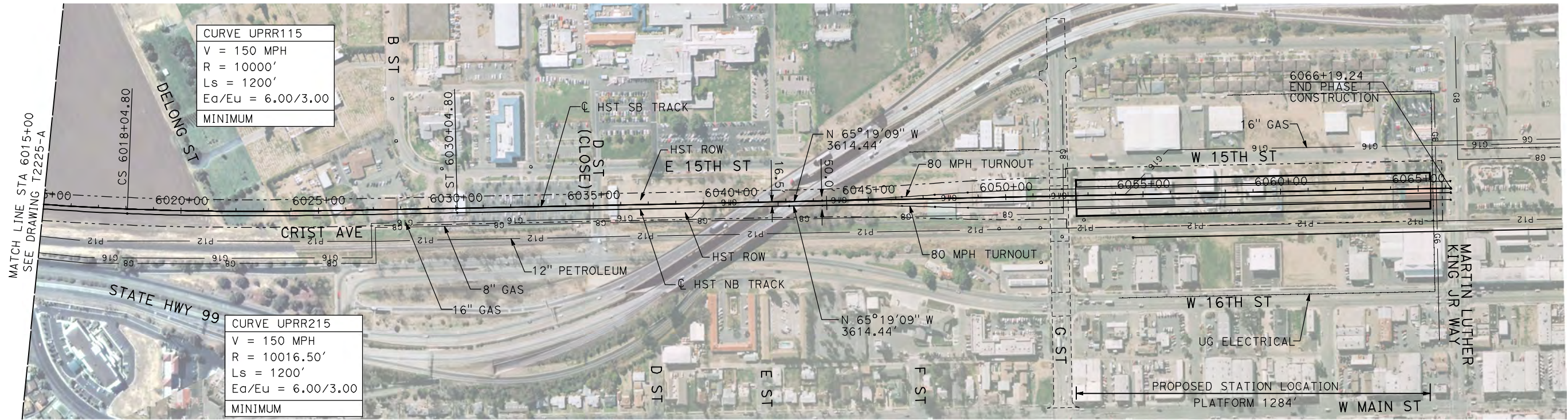


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5960+00 TO STA 6015+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2225-A
SCALE
AS SHOWN
SHEET NO.
OF

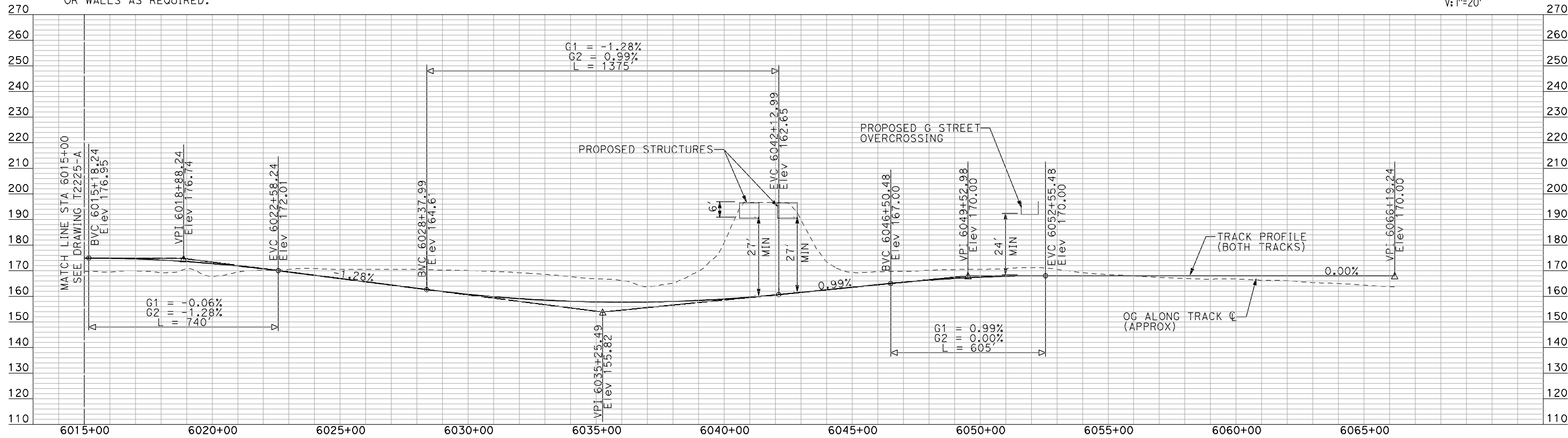
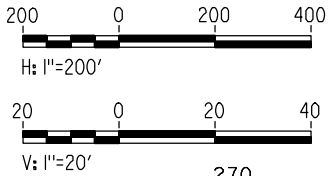
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

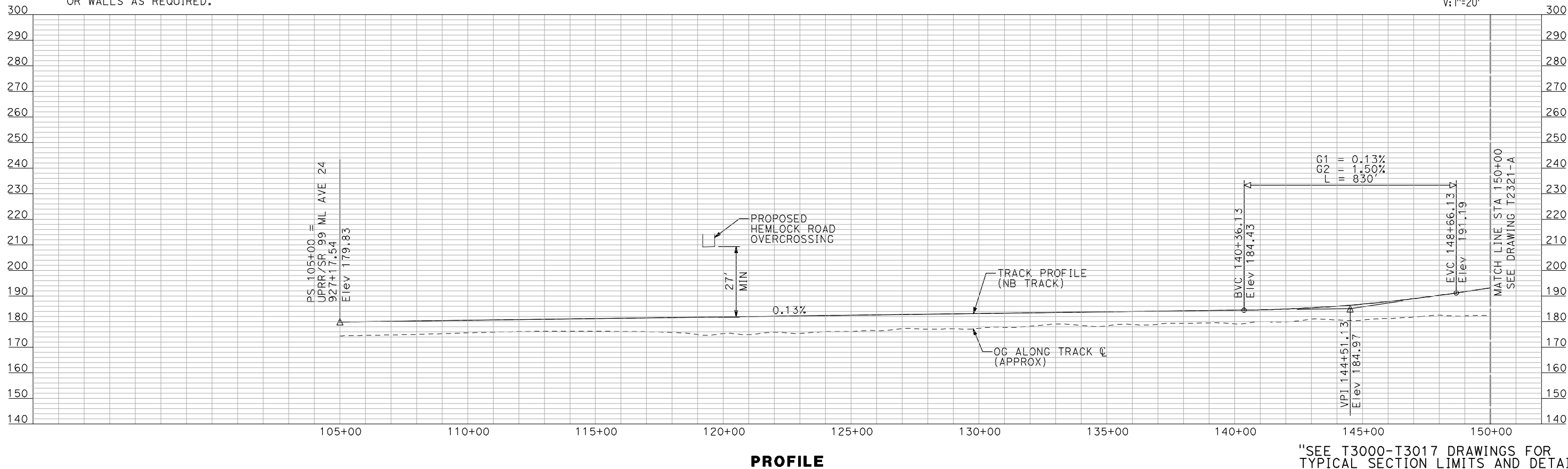
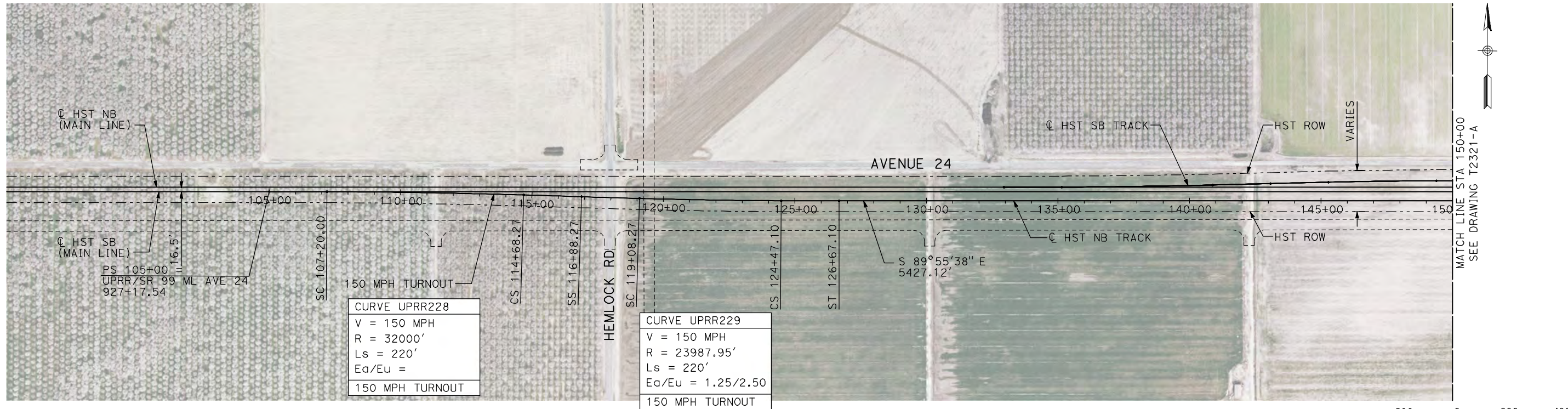
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 6015+00 TO STA 6066+19.24

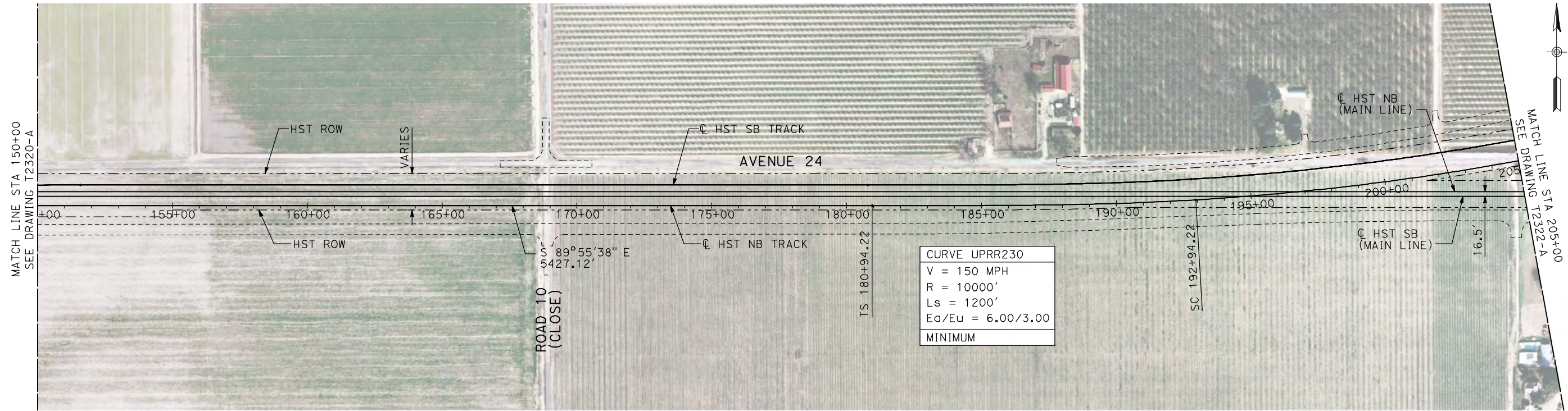
CONTRACT NO. HSR06-007
DRAWING NO. T2226-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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						DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	 Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811 	 <i>CALIFORNIA</i> HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR/SR 99 WYE - NB CONNECTION AVENUE 24 PLAN AND PROFILE STA 105+00 TO STA 150+00	CONTRACT NO. HSR06-007
						DRAWN BY H. SULLIVAN					DRAWING NO. T2320-A
						CHECKED BY A. BOONE					SCALE AS SHOWN
						IN CHARGE A. BOONE					SHEET NO. ### OF ###
						DATE 07/20/2011					
REV	DATE	BY	CHK	APP	DESCRIPTION						

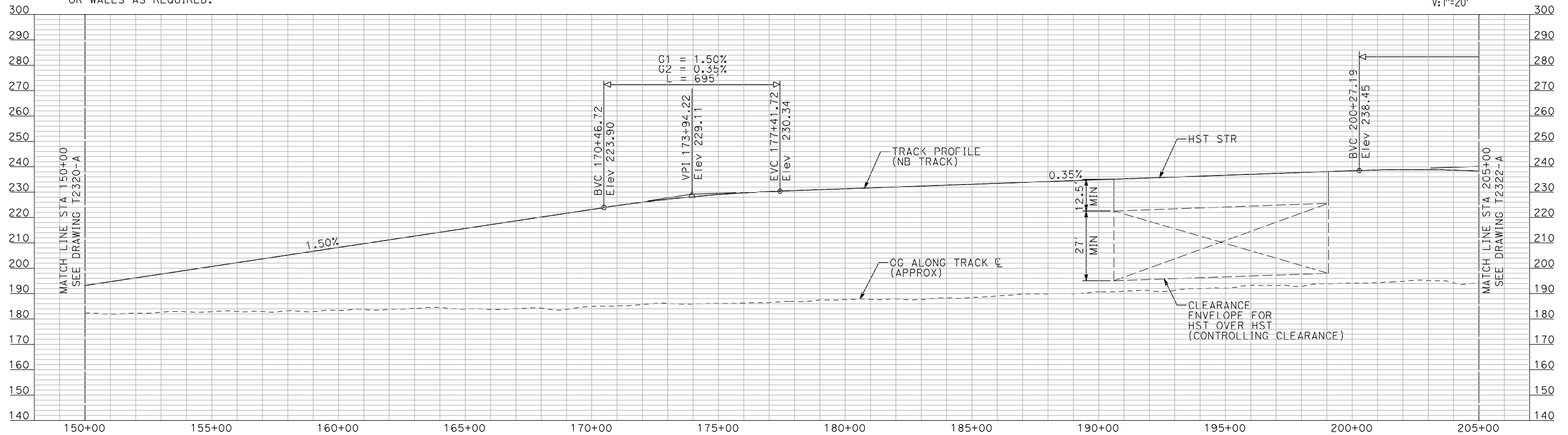
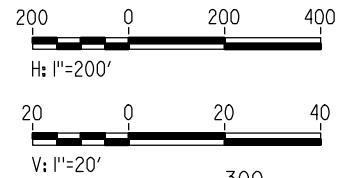
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

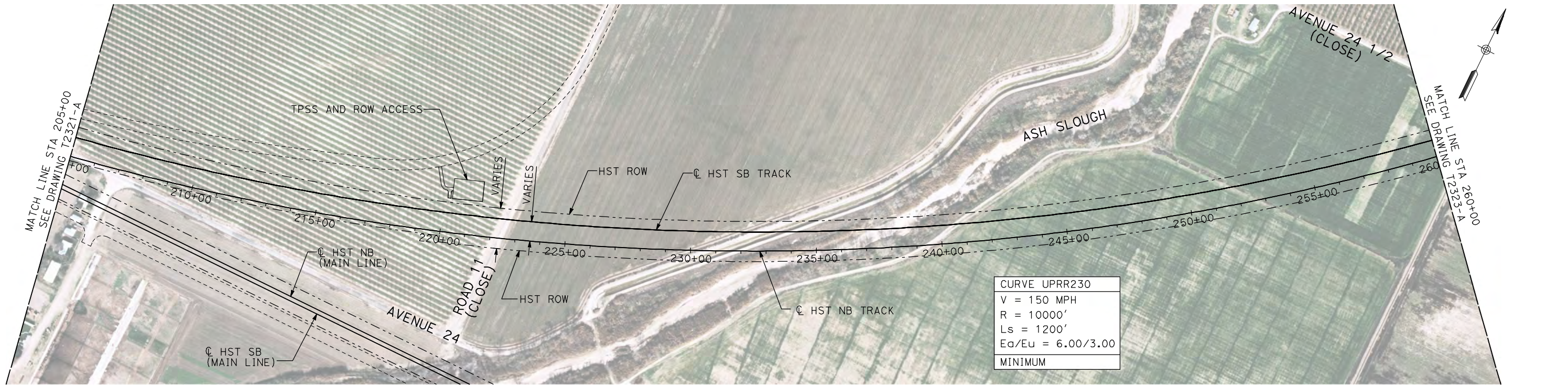
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 150+00 TO STA 205+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2321-A
SCALE
AS SHOWN
SHEET NO.
OF

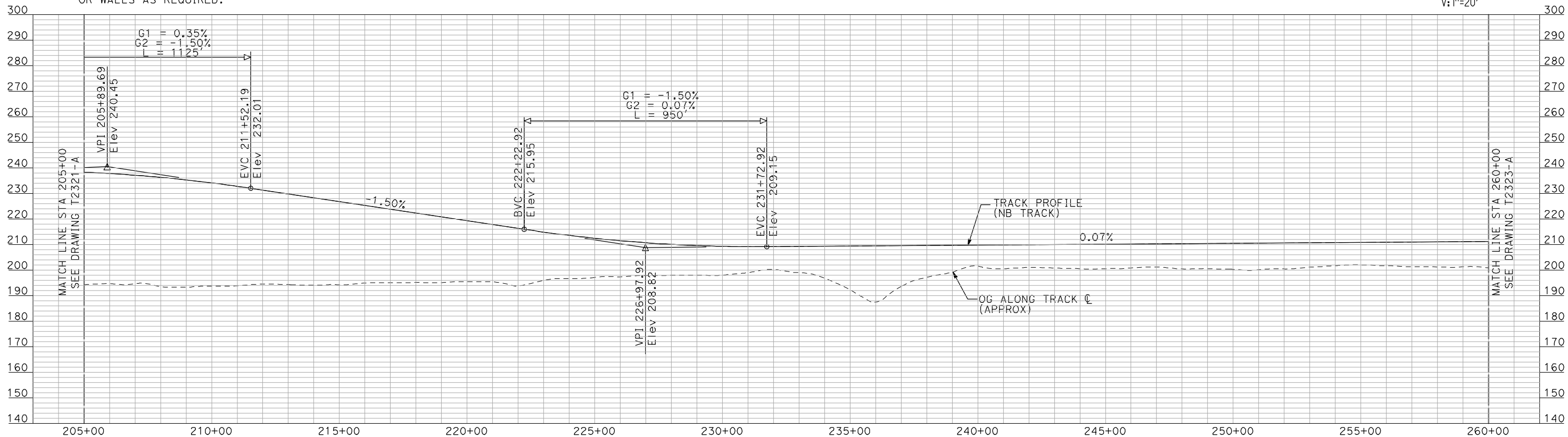
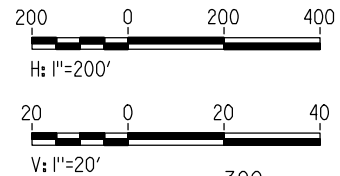
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

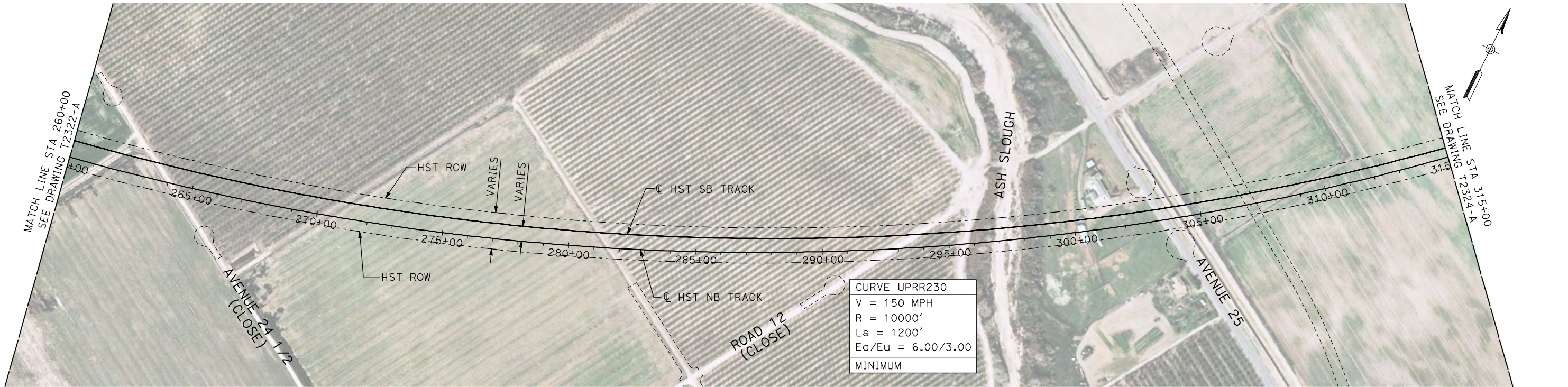
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 205+00 TO STA 260+00

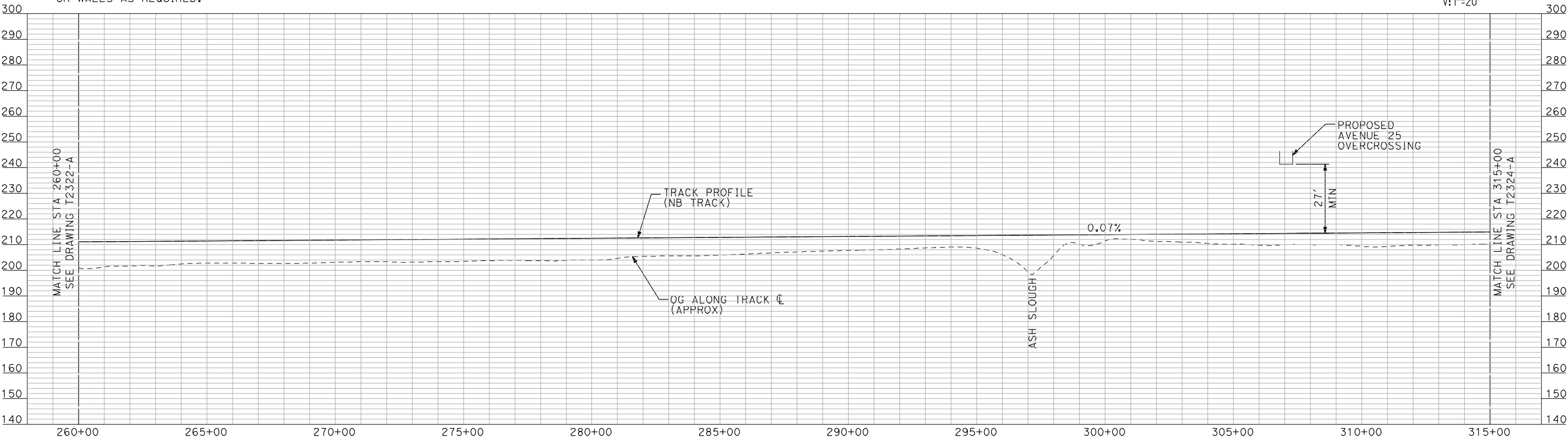
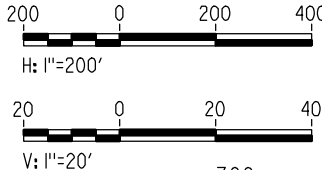
CONTRACT NO.
HSR06-007
DRAWING NO.
T2322-A
SCALE
AS SHOWN
SHEET NO.
OF

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

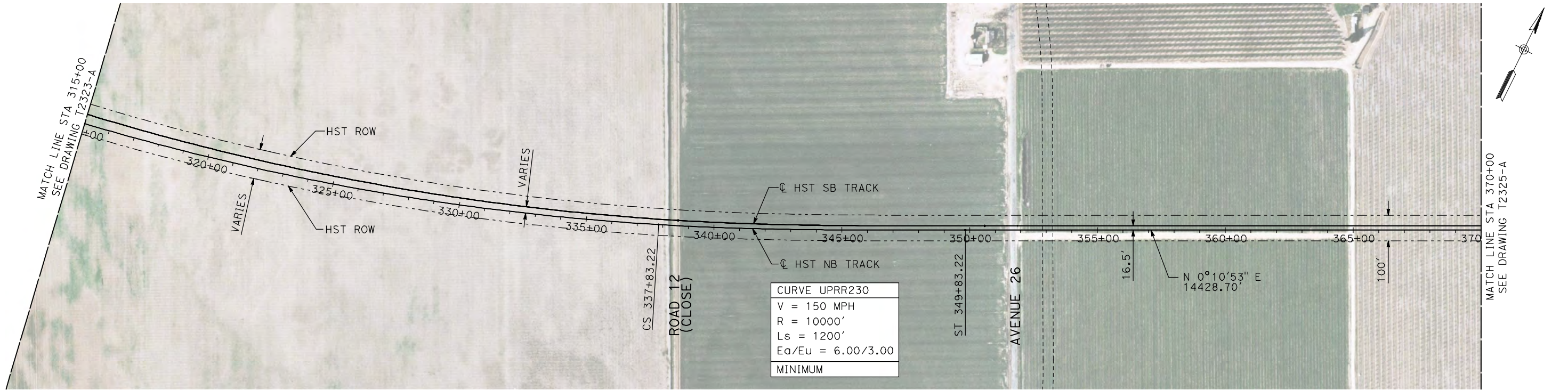


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 260+00 TO STA 315+00

CONTRACT NO. HSR06-007
DRAWING NO. T2323-A
SCALE AS SHOWN
SHEET NO. ### OF ###

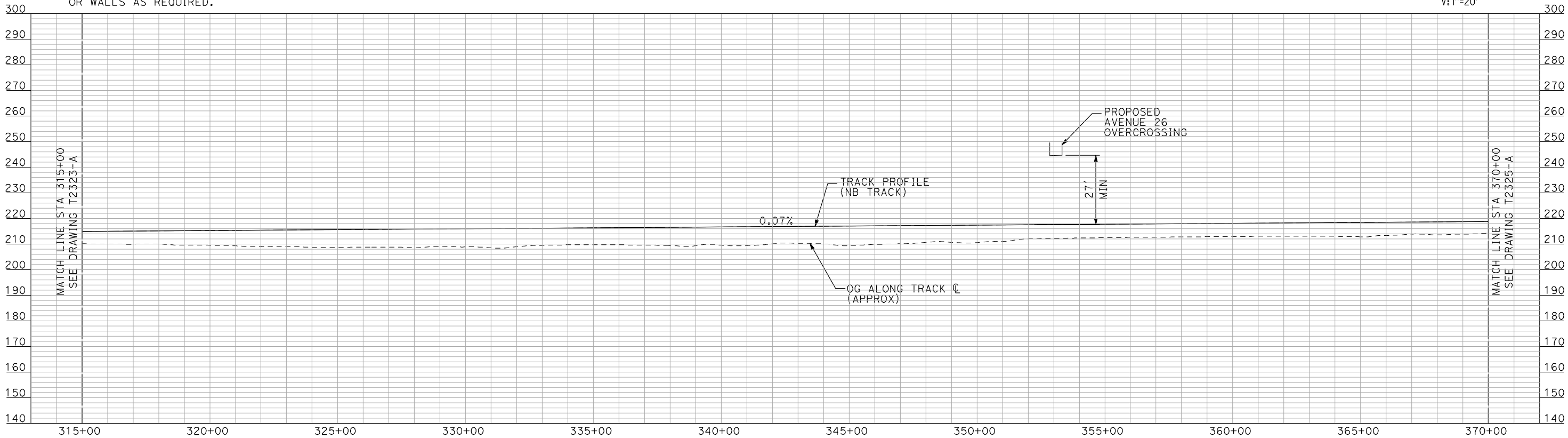
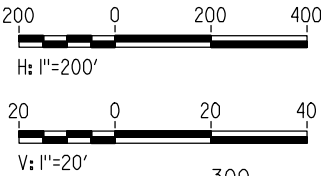
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

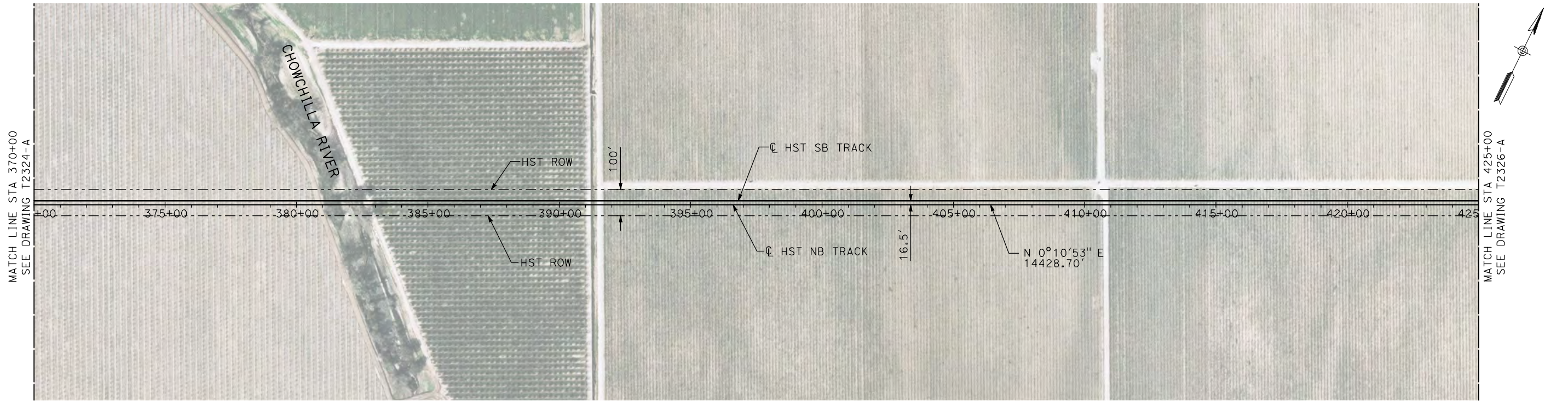


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 315+00 TO STA 370+00

CONTRACT NO. HSR06-007
DRAWING NO. T2324-A
SCALE AS SHOWN
SHEET NO. ### OF ###

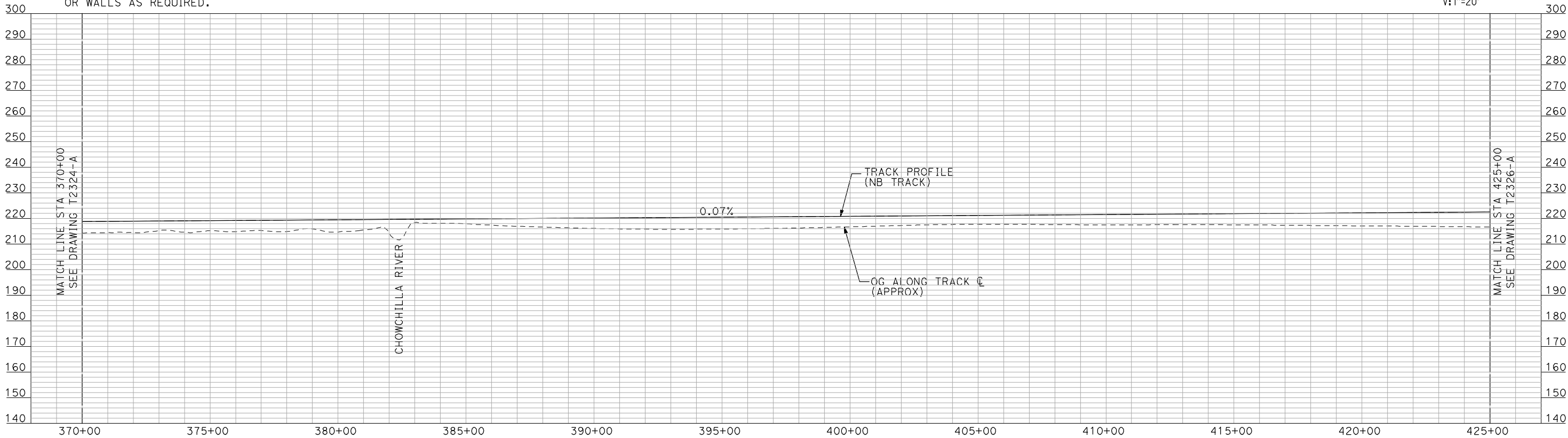
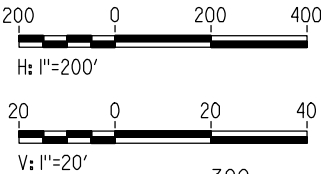
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

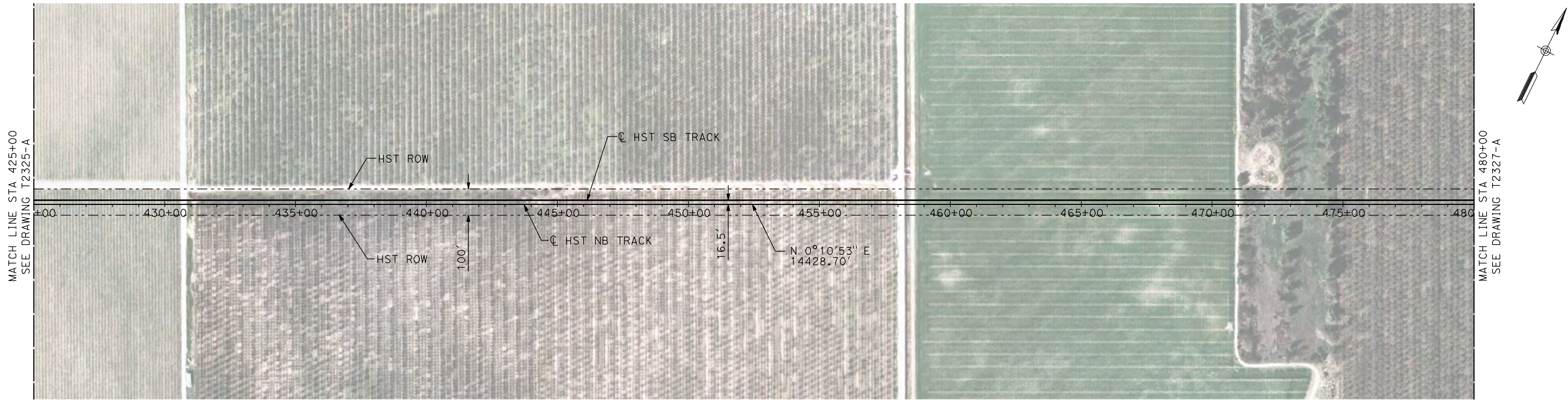


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 370+00 TO STA 425+00

CONTRACT NO. HSR06-007
DRAWING NO. T2325-A
SCALE AS SHOWN
SHEET NO. ### OF ###

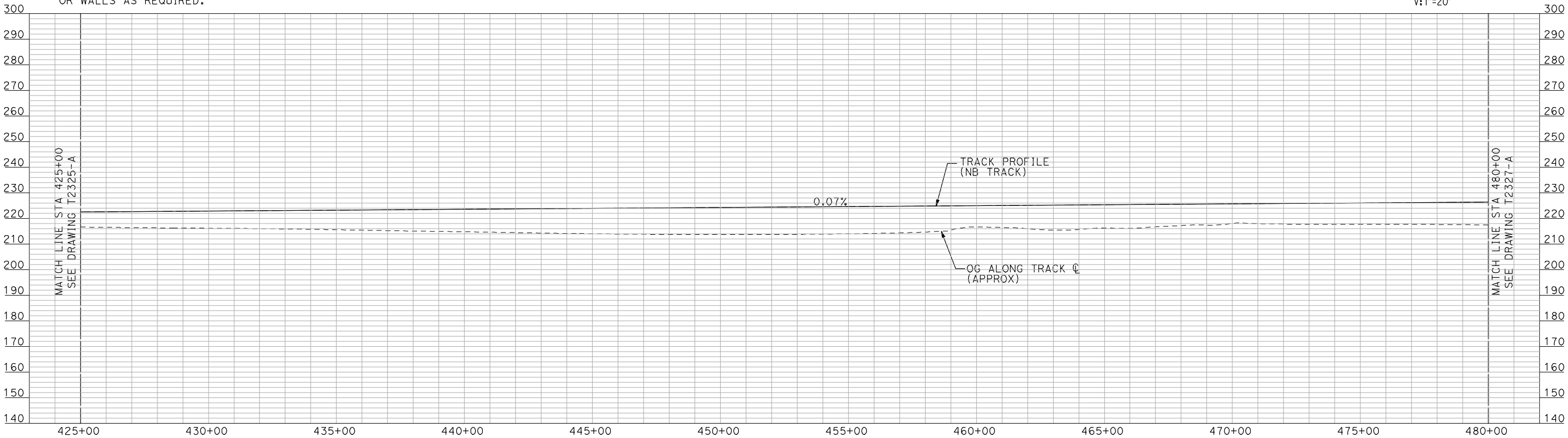
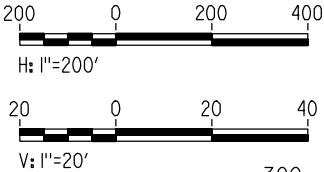
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

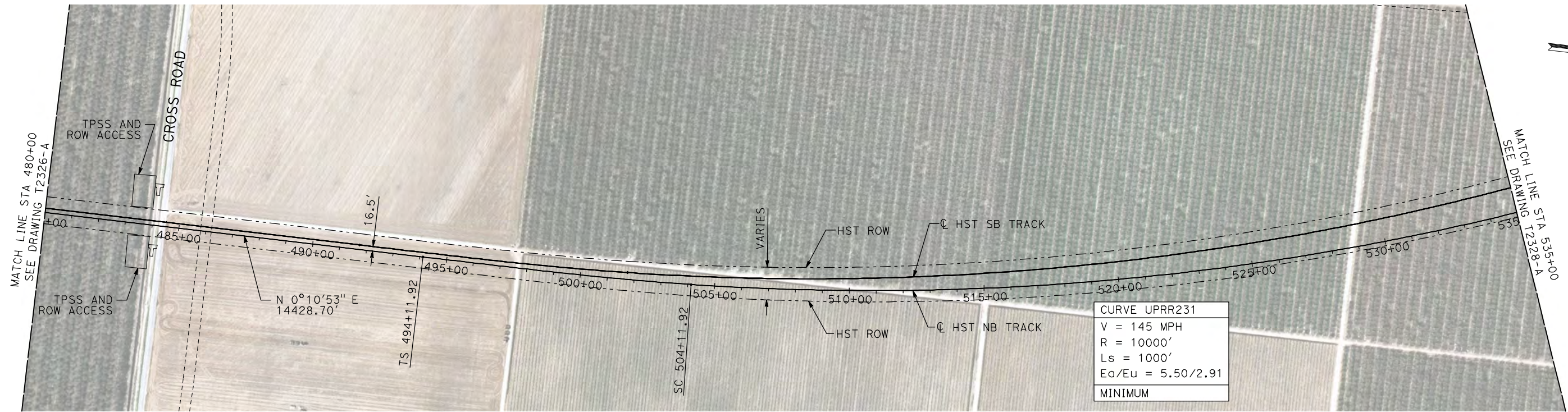
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 425+00 TO STA 480+00

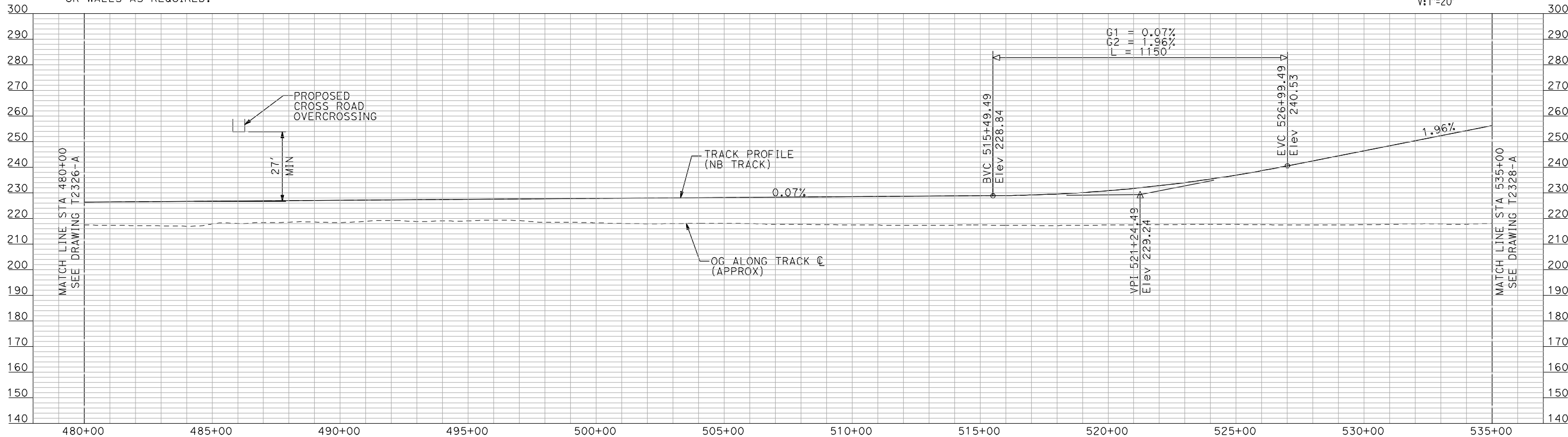
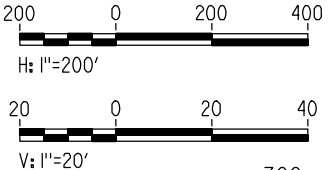
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DRAWING NO. T2326-A
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

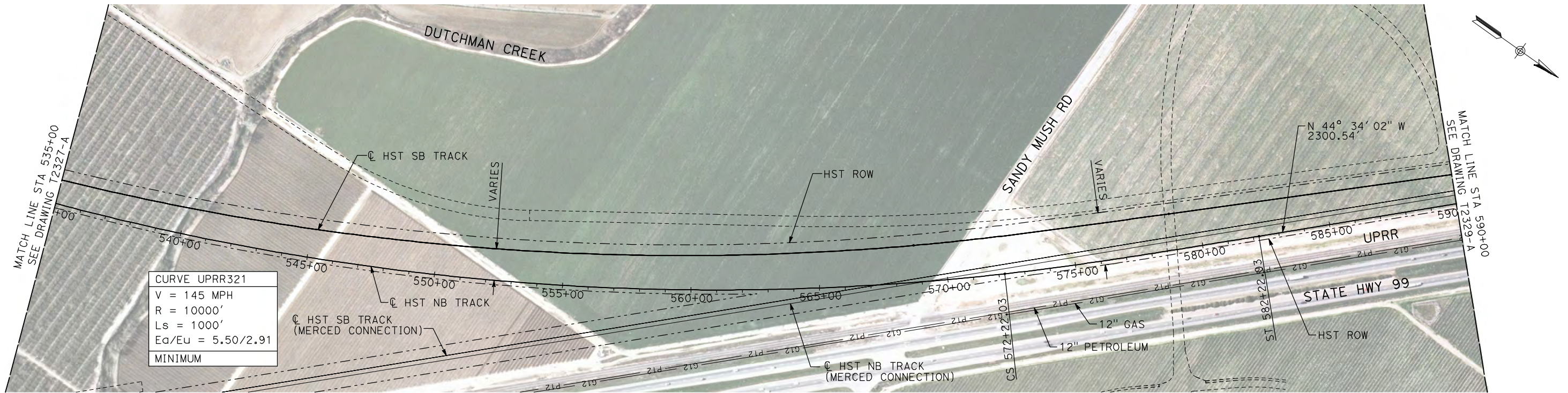
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 480+00 TO STA 535+00

CONTRACT NO. HSR06-007
DRAWING NO. T2327-A
SCALE AS SHOWN
SHEET NO. ### OF ###

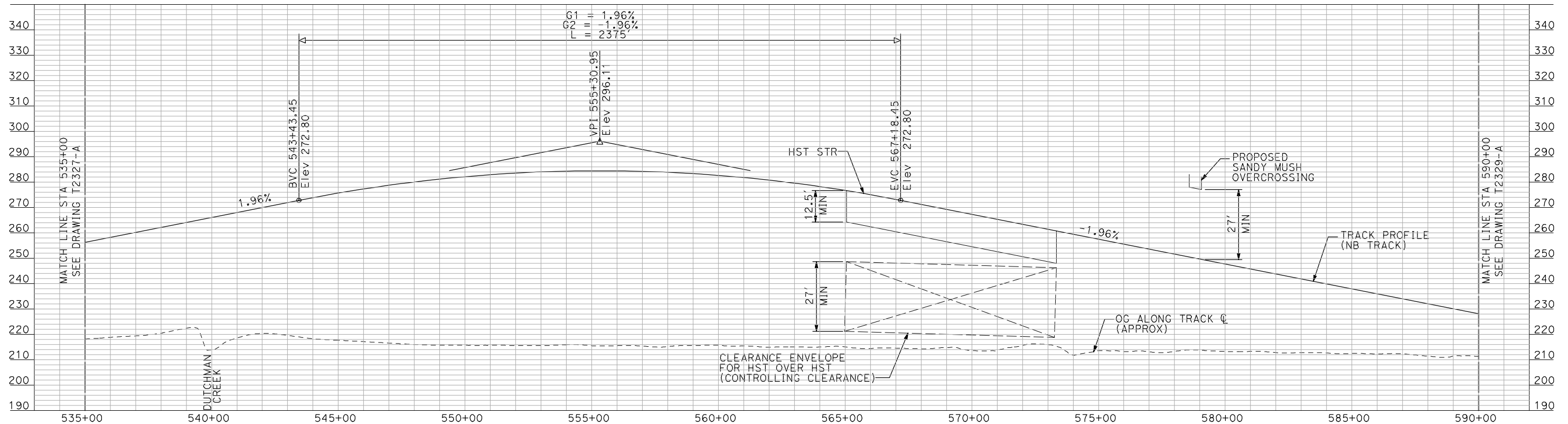
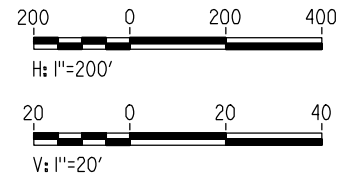
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

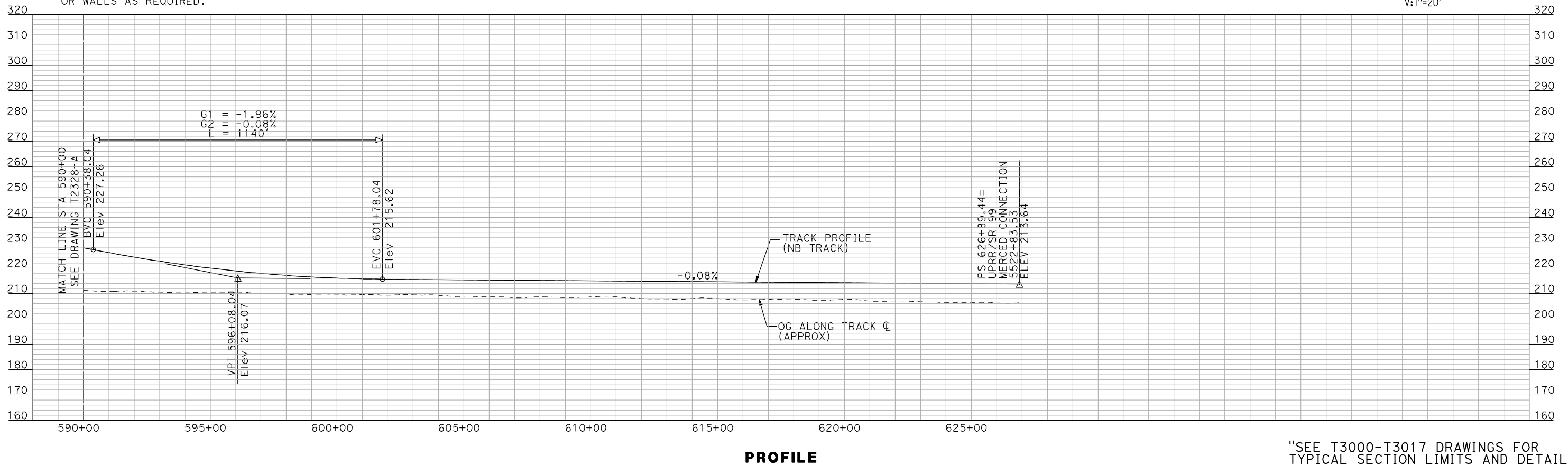
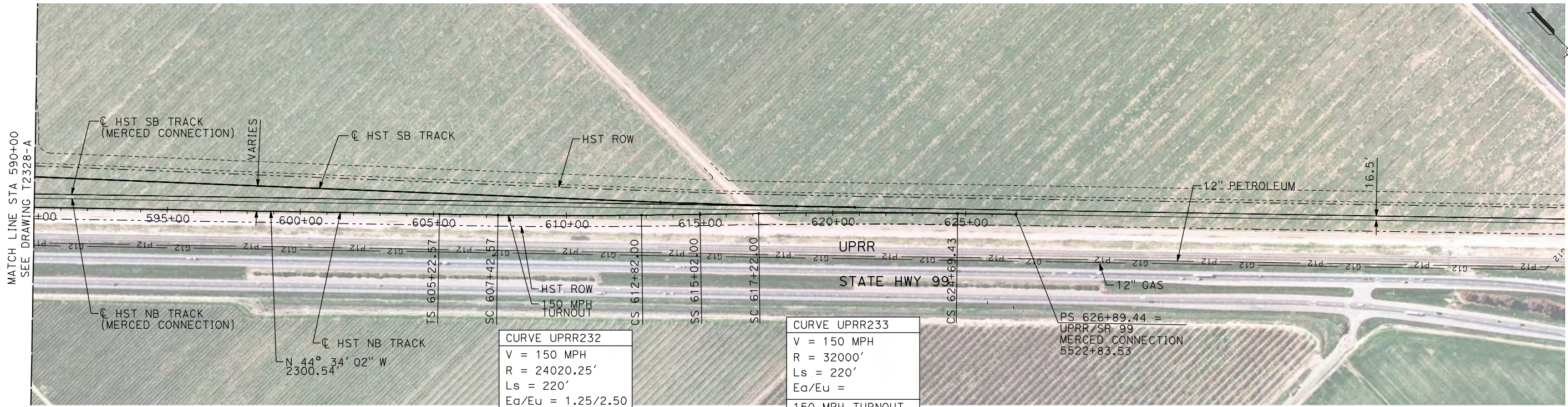
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 535+00 TO STA 590+00

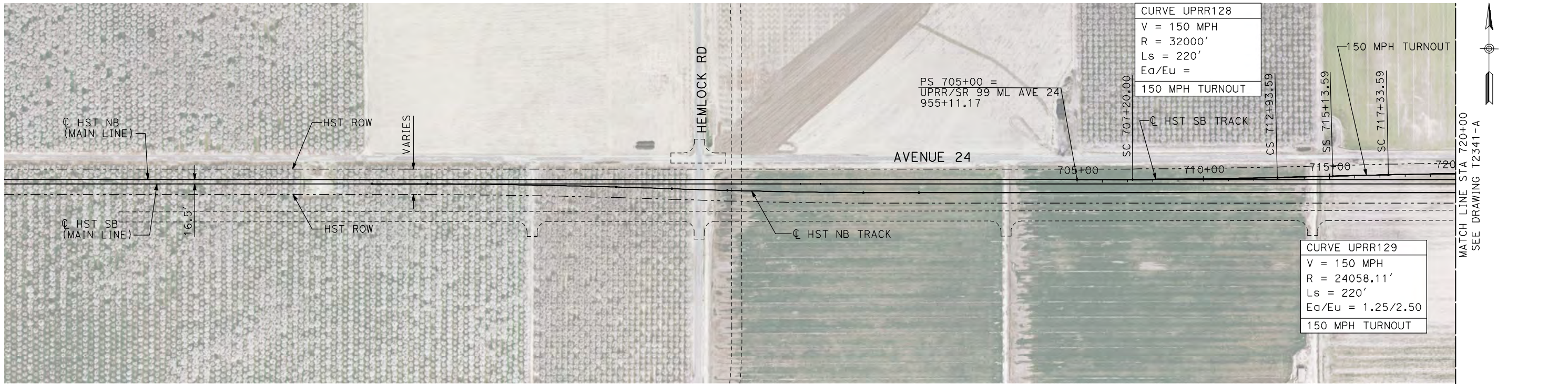
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SHEET NO. ### OF ###

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						DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL  CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR/SR 99 WYE - NB CONNECTION AVENUE 24 PLAN AND PROFILE STA 590+00 TO STA 626+89.44	CONTRACT NO. HSR06-007
					DRAWN BY H. SULLIVAN	DRAWING NO. T2329-A				
					CHECKED BY A. BOONE	SCALE AS SHOWN				
					IN CHARGE A. BOONE	SHEET NO. ### OF ###				
					DATE 07/20/2011					
REV	DATE	BY	CHK	APP	DESCRIPTION					

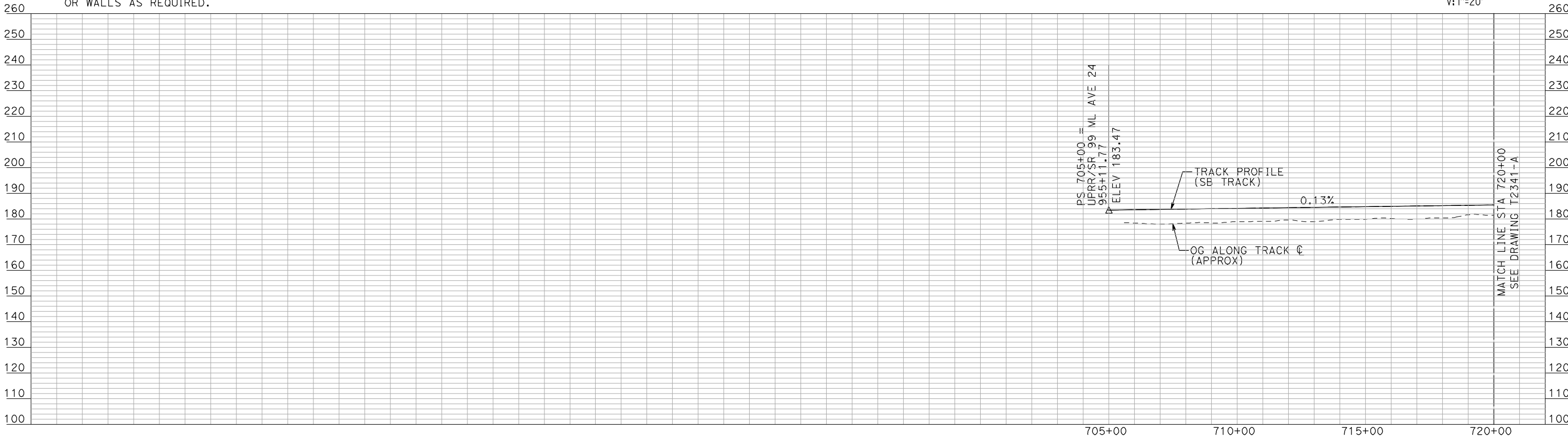
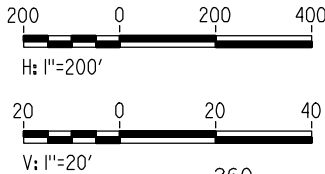
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

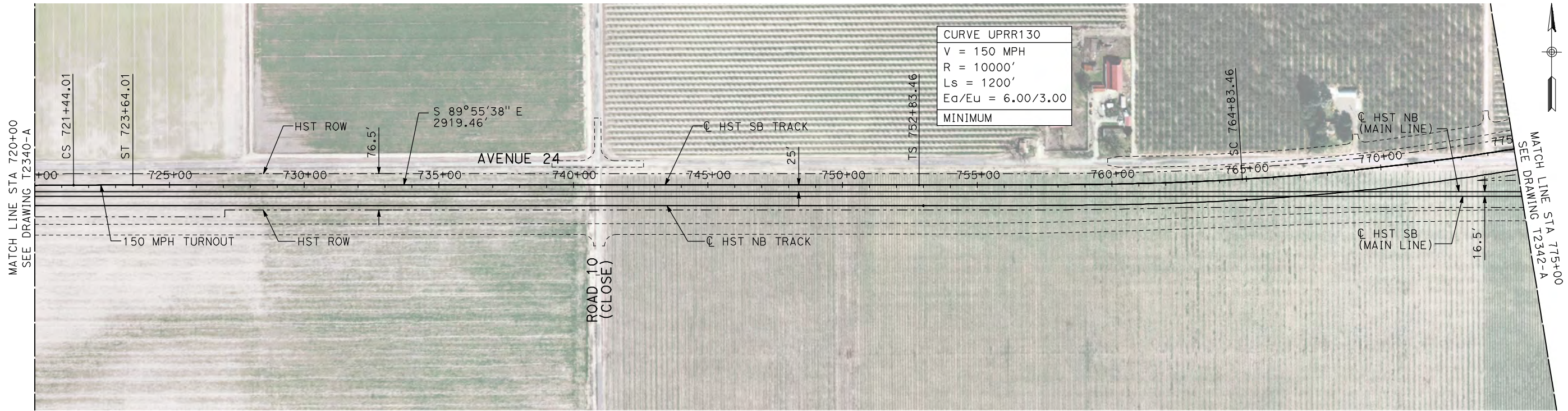
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 705+00 TO STA 720+00

CONTRACT NO. HSR06-007
DRAWING NO. T2340-A
SCALE AS SHOWN
SHEET NO. ### OF ###

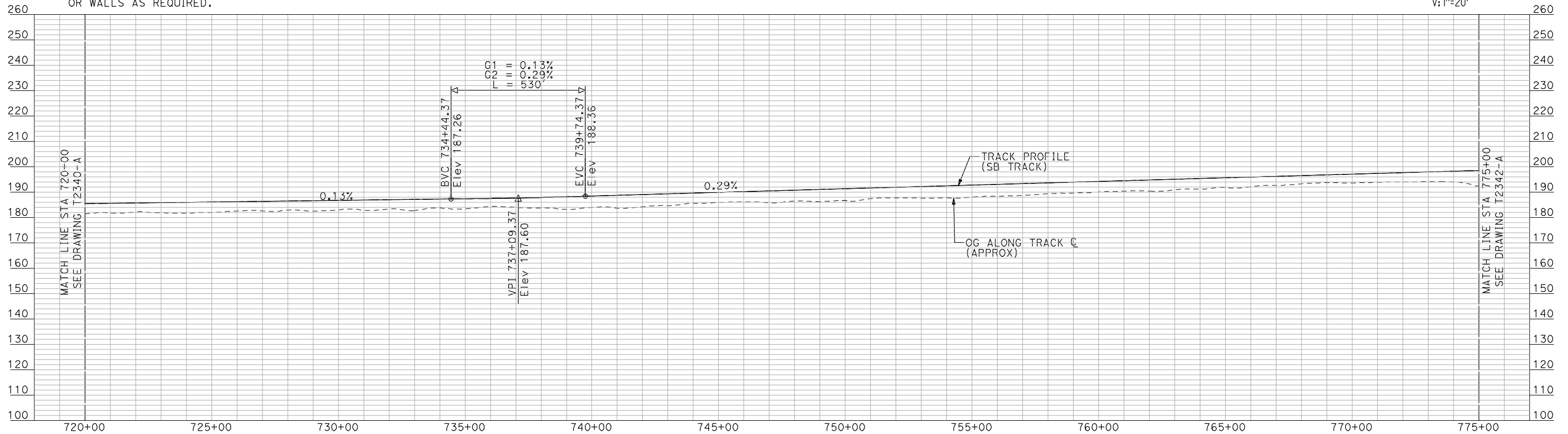
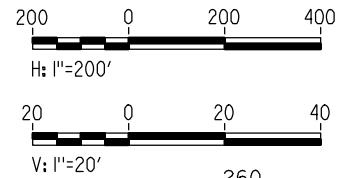
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NOTES:

- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

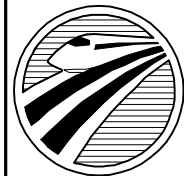
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

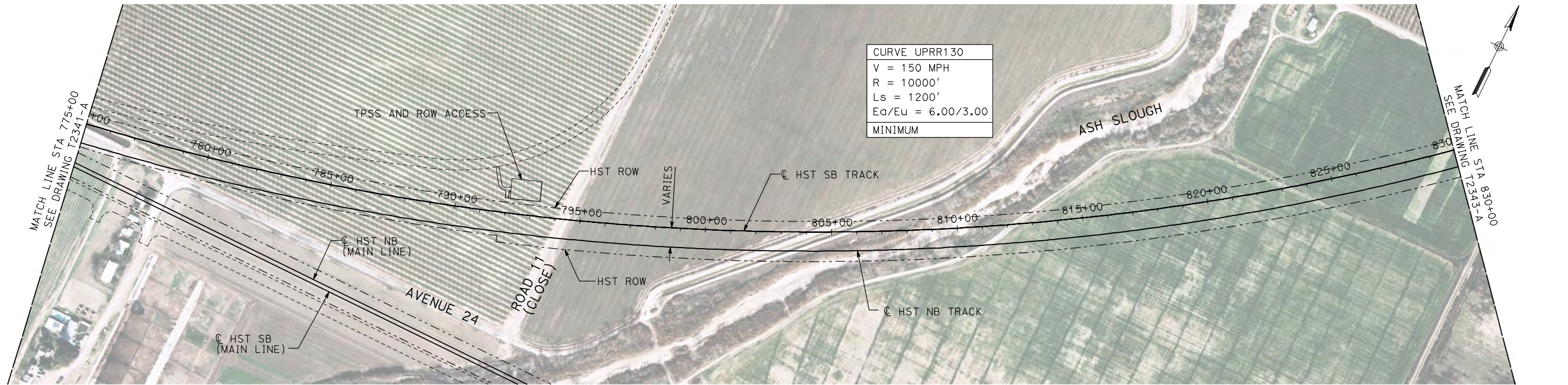
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24

PLAN AND PROFILE
STA 720+00 TO STA 775+00

CONTRACT NO. HSR06-007
DRAWING NO. T2341-A
SCALE AS SHOWN
SHEET NO. ### OF ###

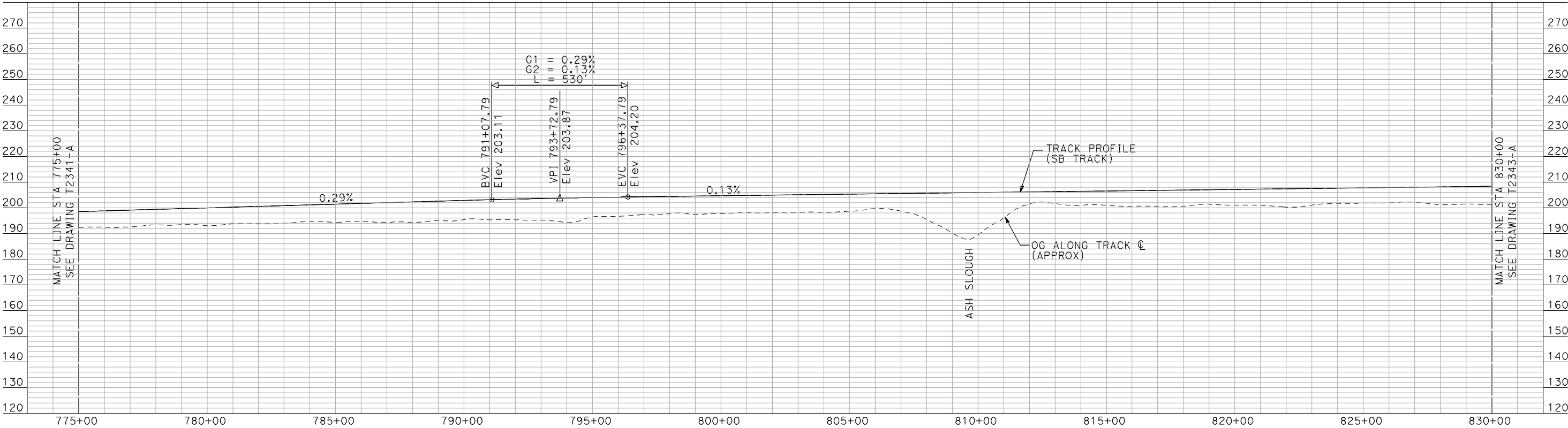
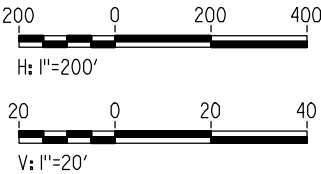
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

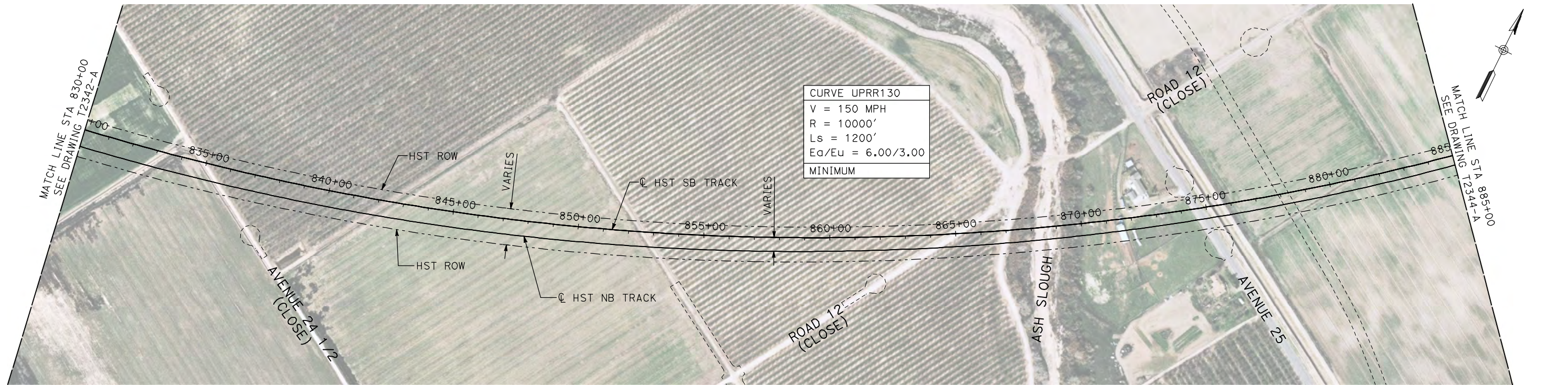


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 775+00 TO STA 830+00

CONTRACT NO. HSR06-007
DRAWING NO. T2342-A
SCALE AS SHOWN
SHEET NO. ### OF ###

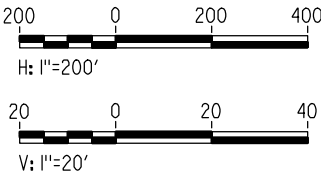
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NOTES:

- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

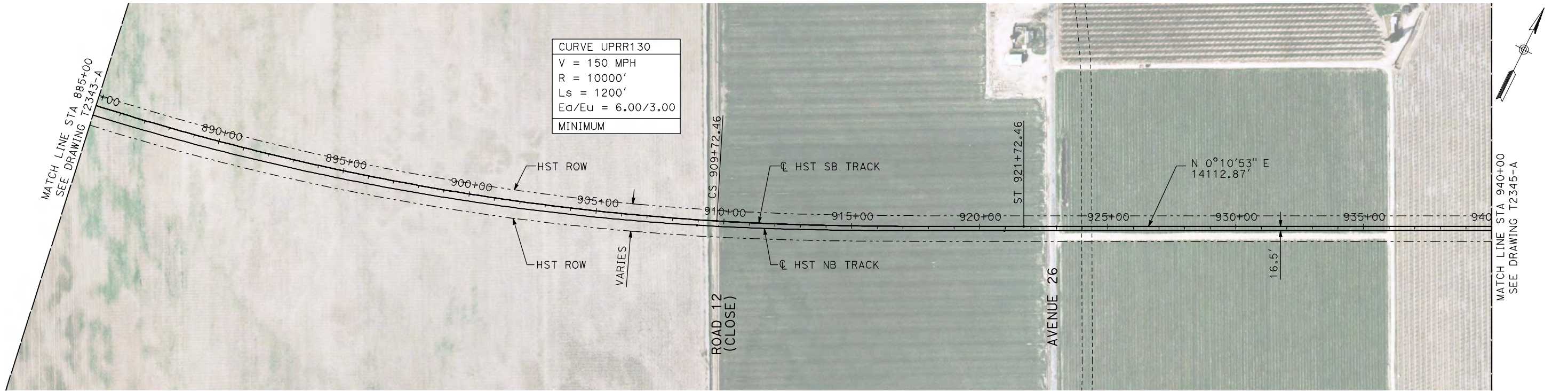


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 830+00 TO STA 885+00

CONTRACT NO. HSR06-007
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SCALE AS SHOWN
SHEET NO. ### OF ###

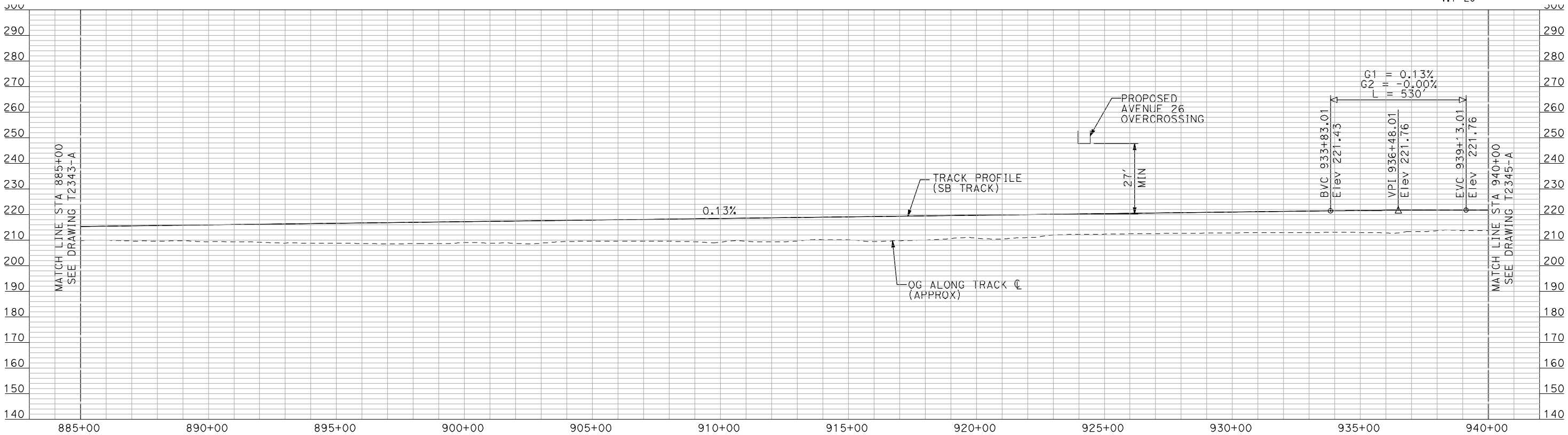
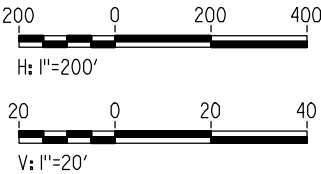
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NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

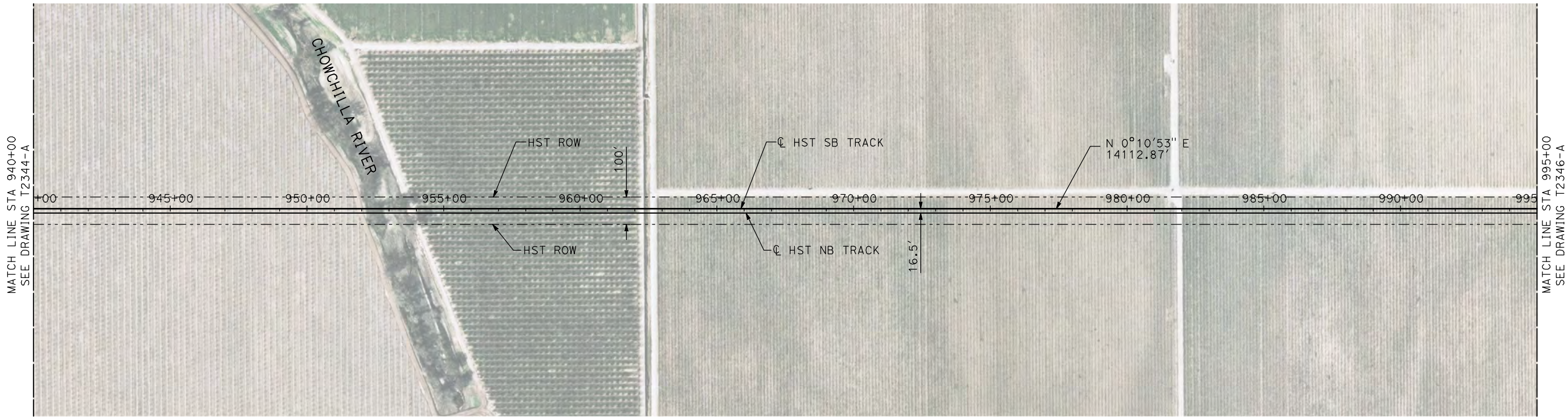


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 885+00 TO STA 940+00

CONTRACT NO. HSR06-007
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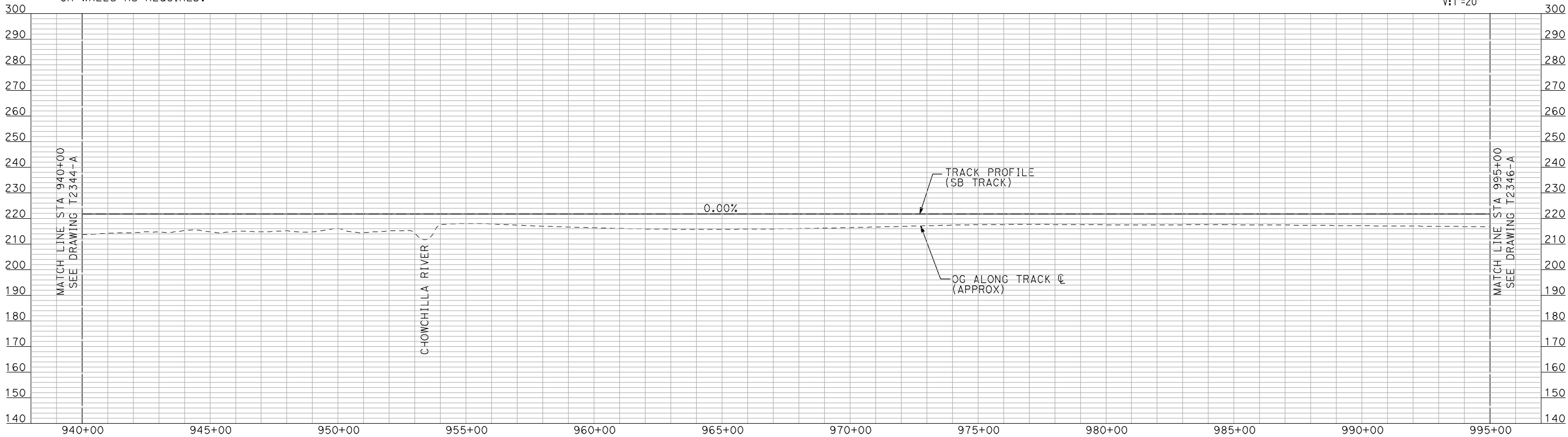
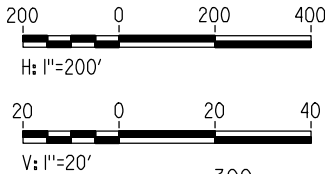
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NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

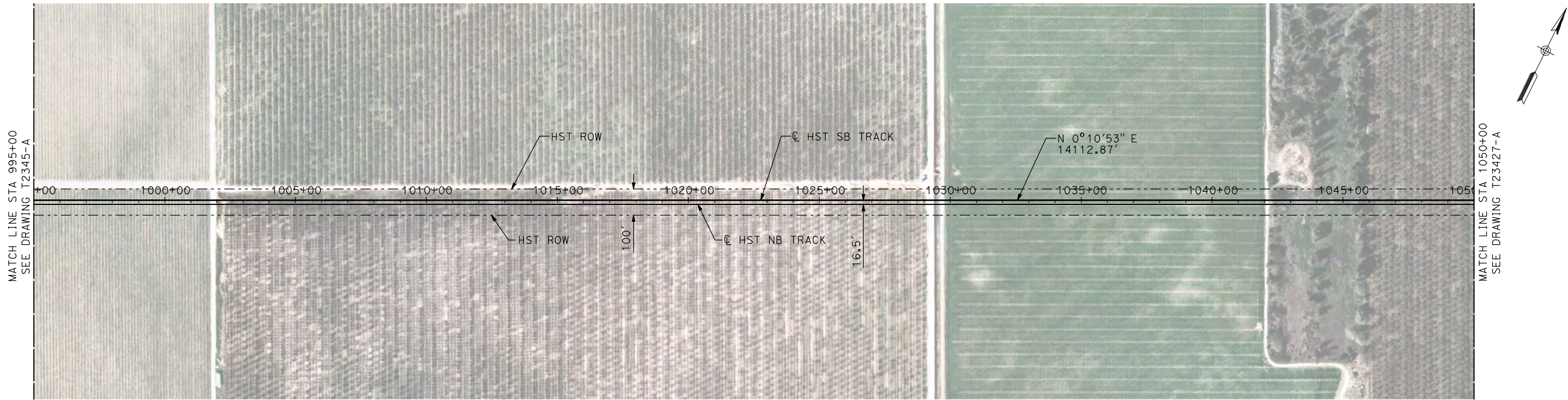


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 940+00 TO STA 995+00

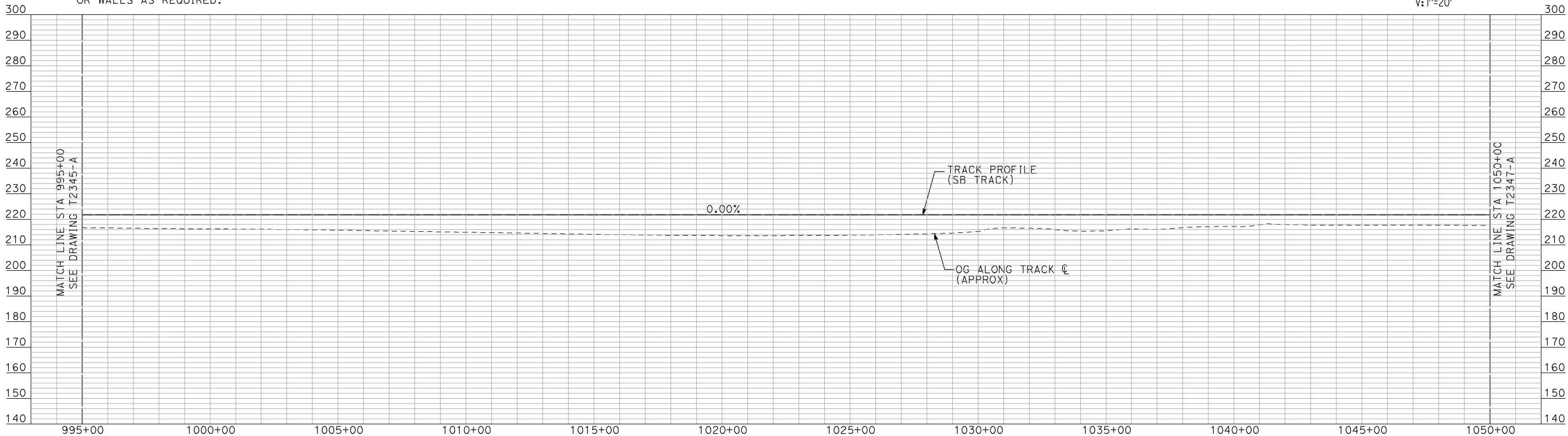
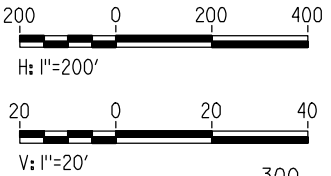
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- NOTES:
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 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

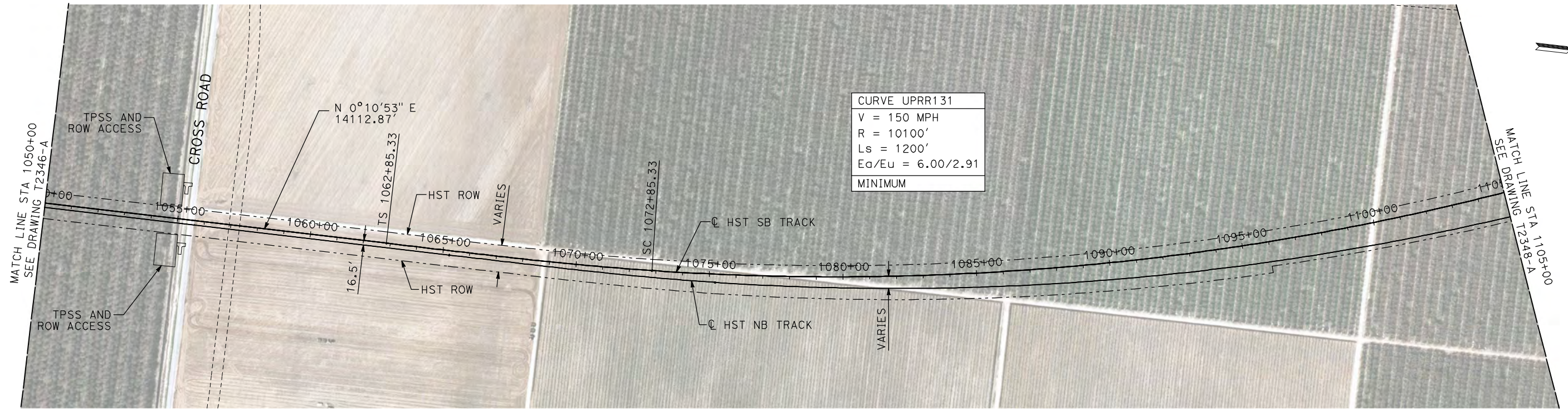


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 995+00 TO STA 1050+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2346-A
SCALE
AS SHOWN
SHEET NO.
OF

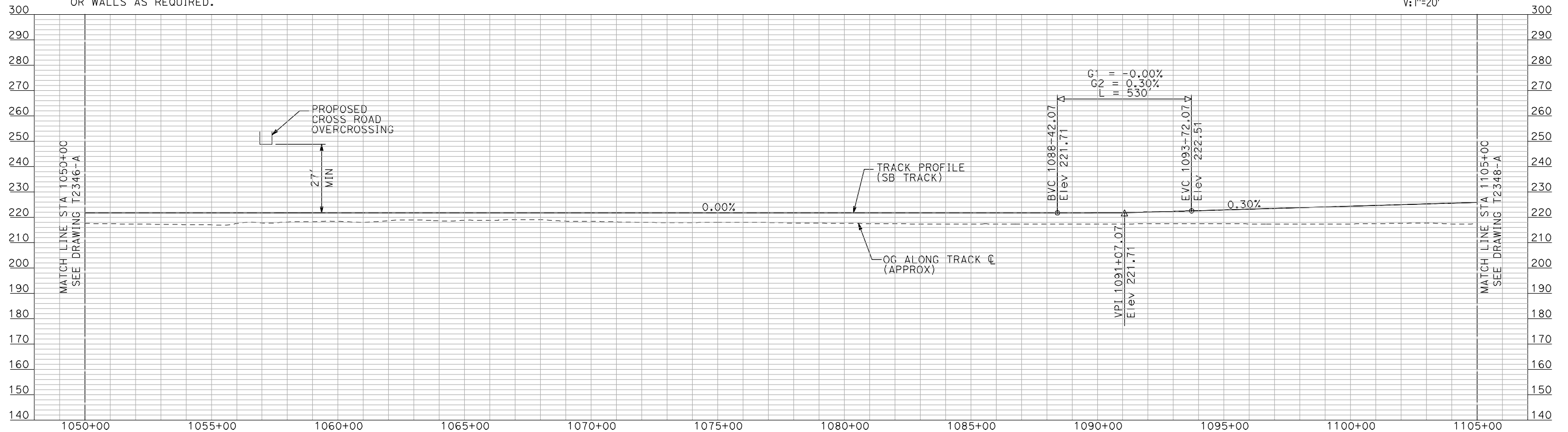
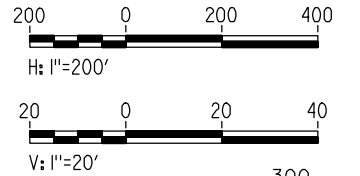
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

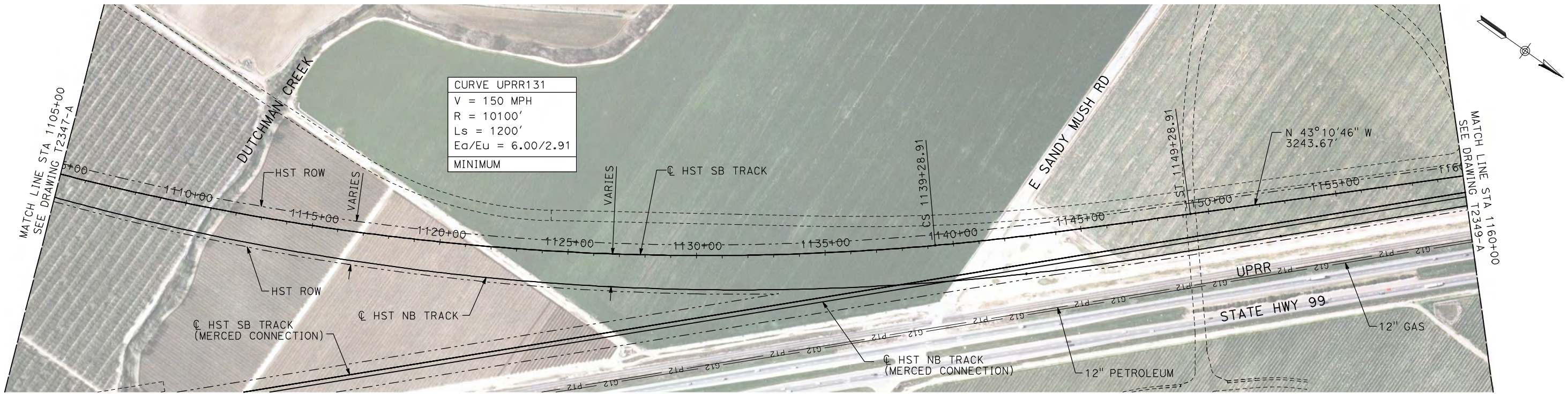
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 1050+00 TO STA 1105+00

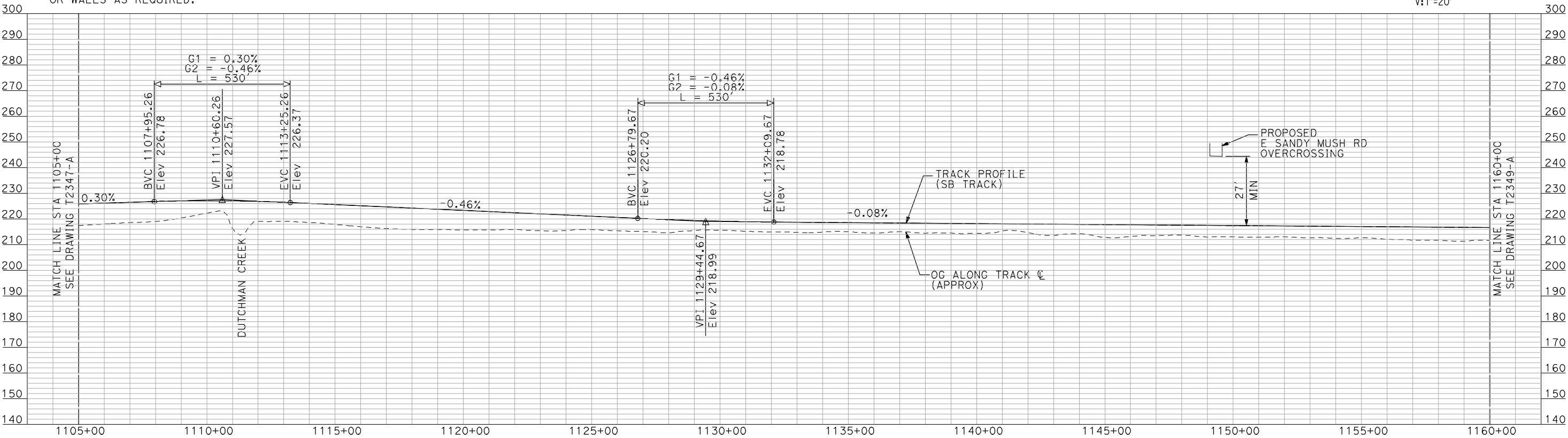
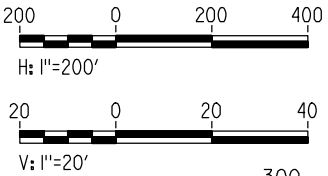
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SHEET NO. ### OF ###

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- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

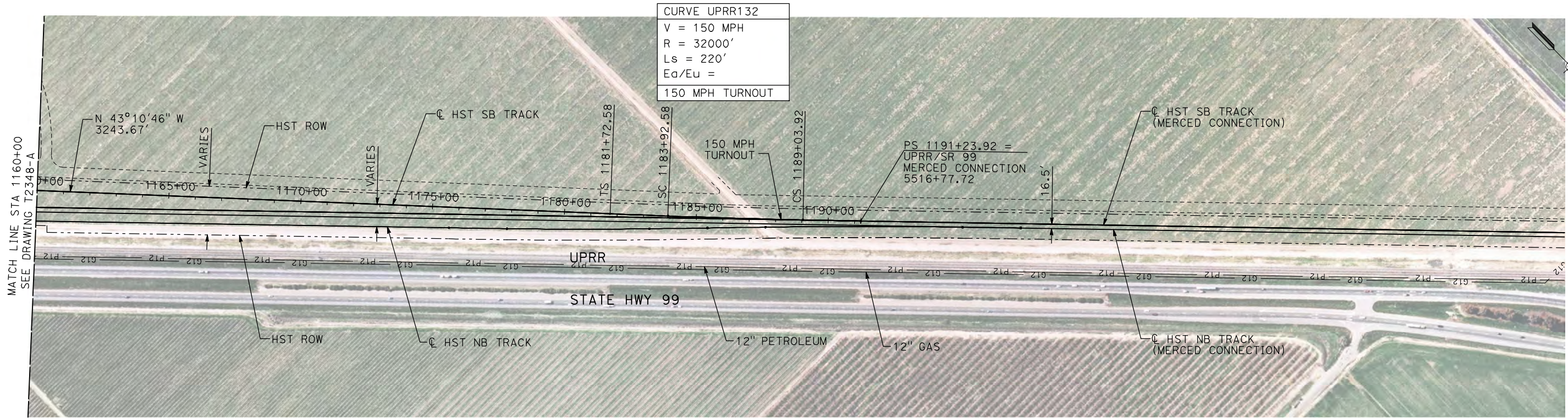
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 1105+00 TO STA 1160+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2348-A
SCALE
AS SHOWN
SHEET NO.
OF

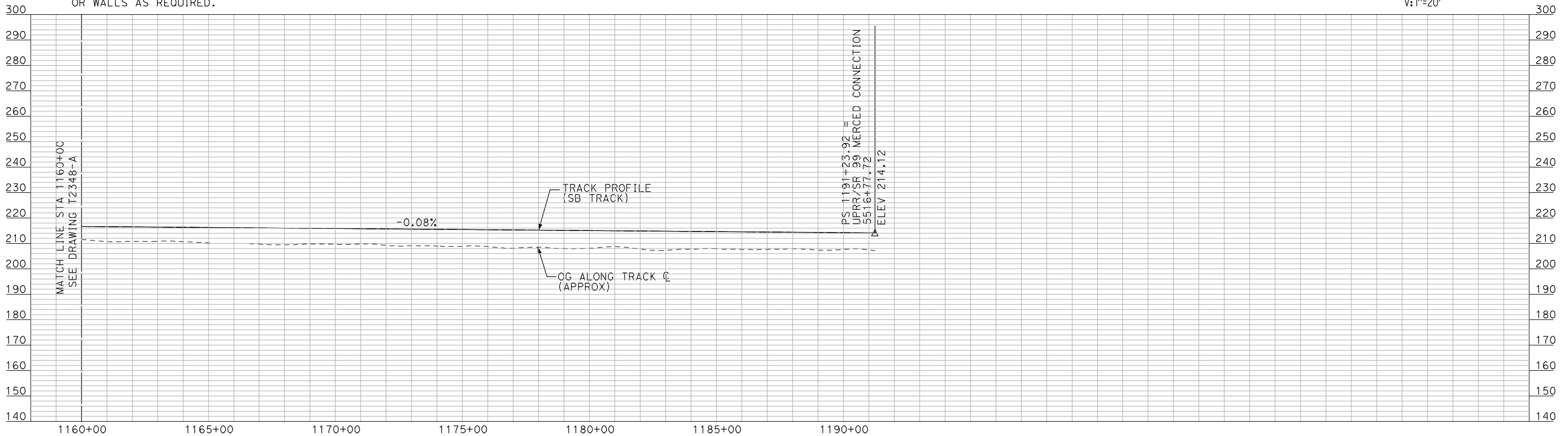
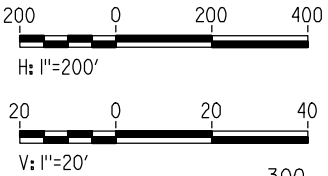
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NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

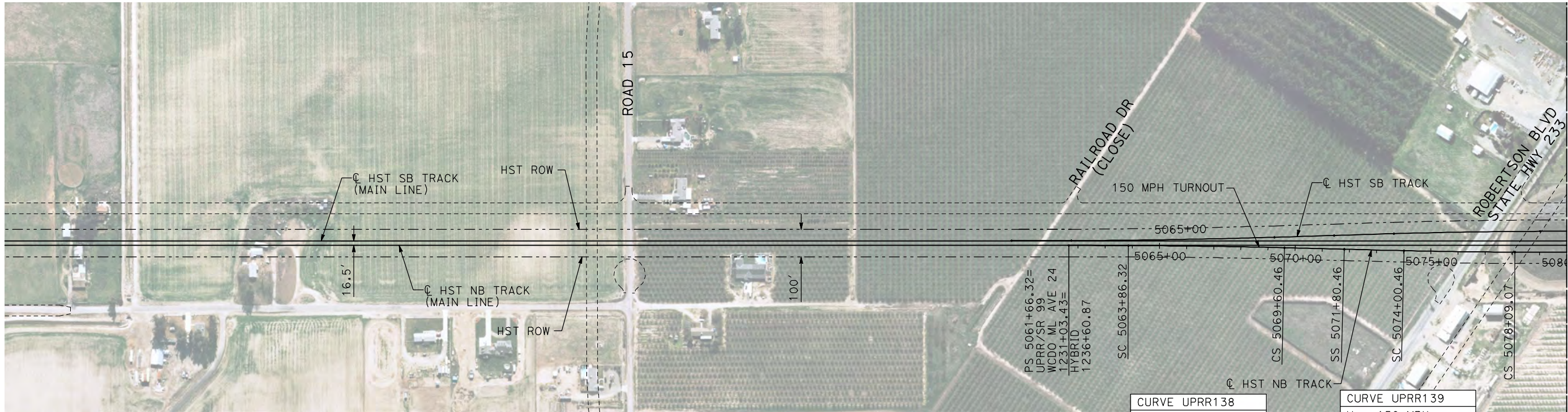


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 1160+00 TO STA 1191+23.92

CONTRACT NO. HSR06-007
DRAWING NO. T2349-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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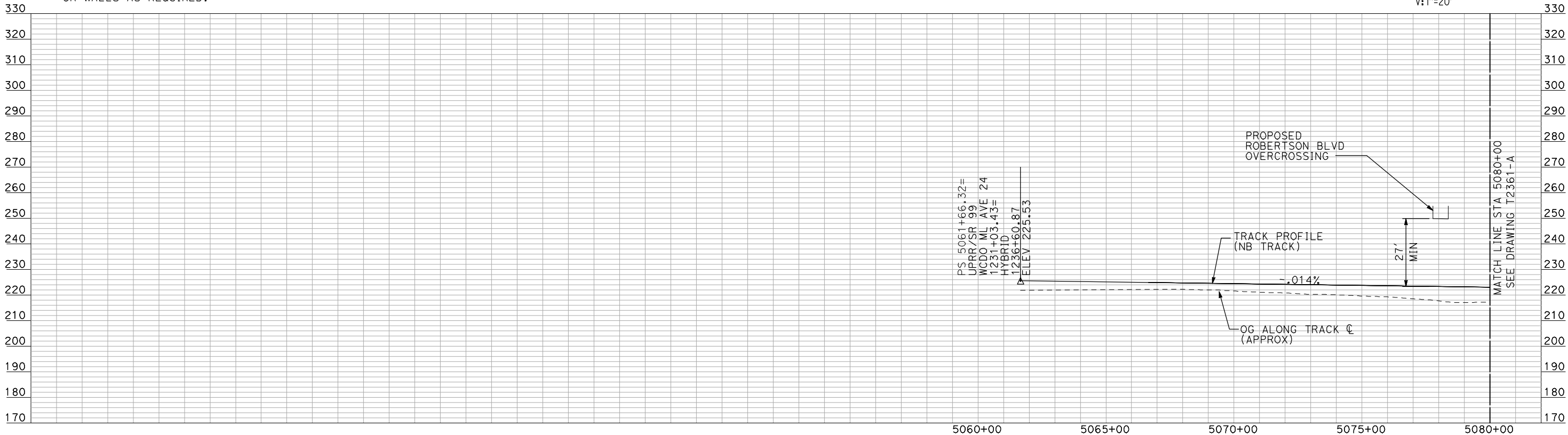
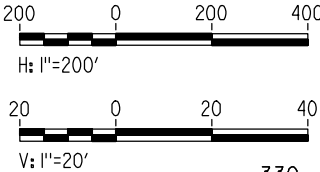
NOTES:

- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

CURVE UPRR138
V = 150 MPH
R = 32000'
Ls = 220'
Ed/Eu =
150 MPH TURNOUT

CURVE UPRR139
V = 150 MPH
R = 24000'
Ls = 220'
Ed/Eu = 1.25/2.50
150 MPH TURNOUT



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5061+66.32 TO STA 5080+00

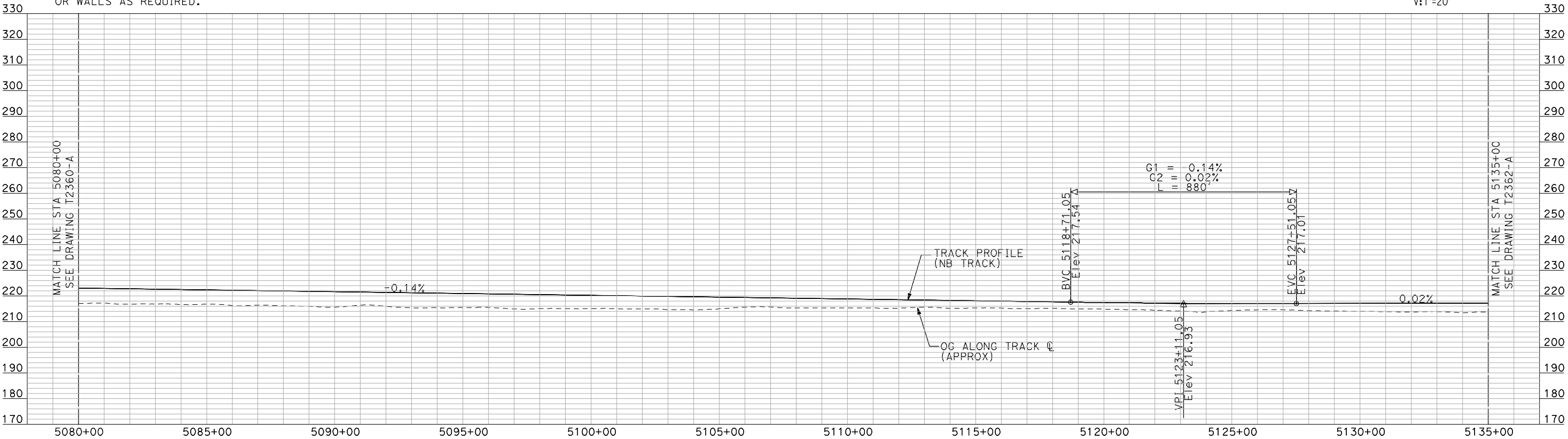
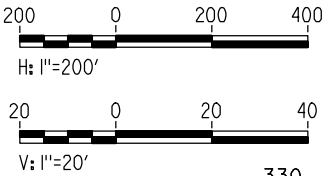
CONTRACT NO. HSR06-007
DRAWING NO. T2360-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

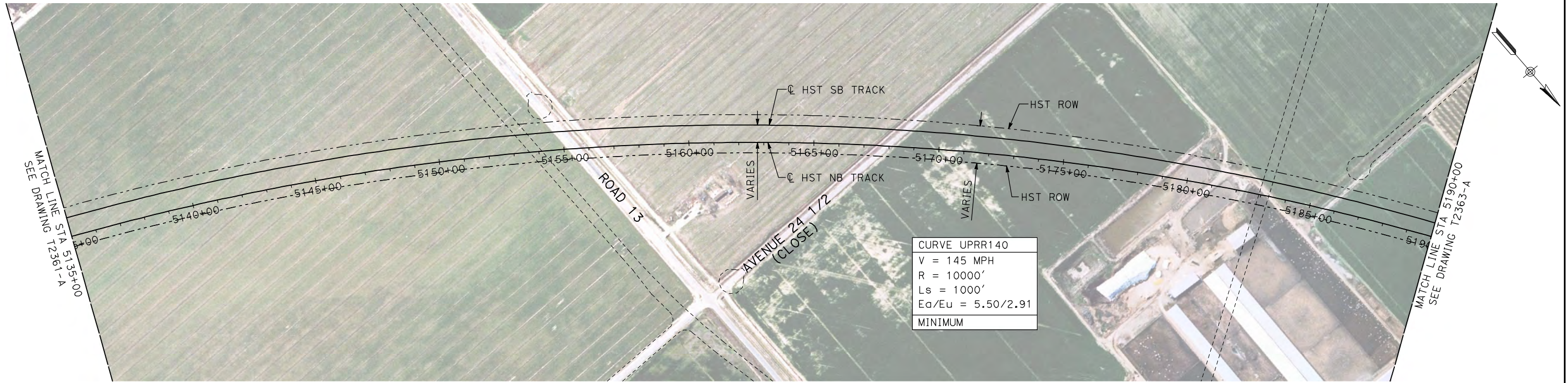


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5080+00 TO STA 5135+00

CONTRACT NO. HSR06-007
DRAWING NO. T2361-A
SCALE AS SHOWN
SHEET NO. ### OF ###

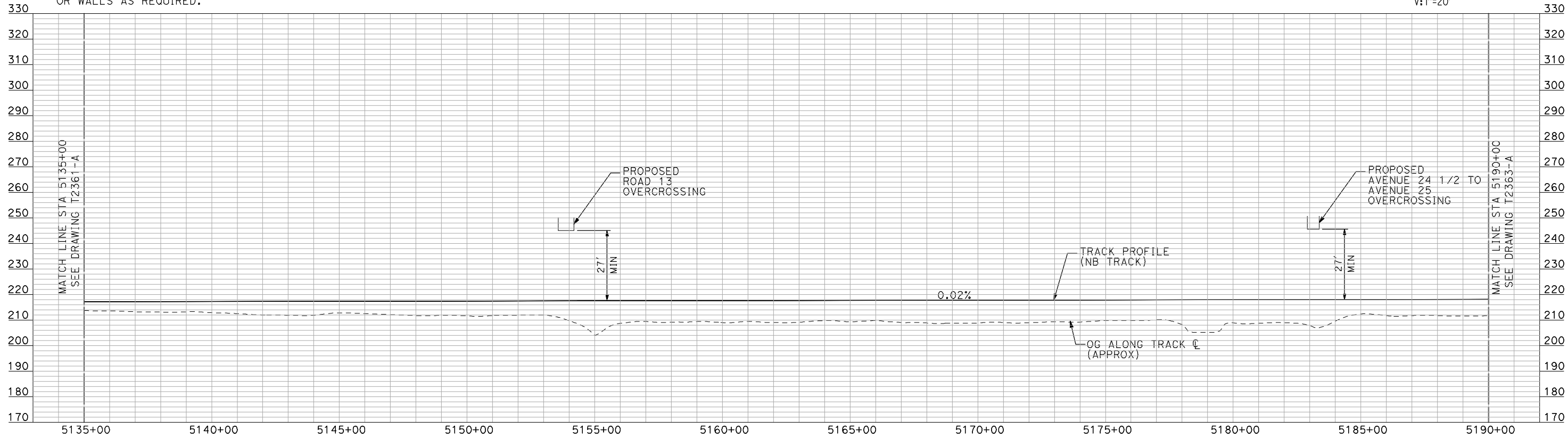
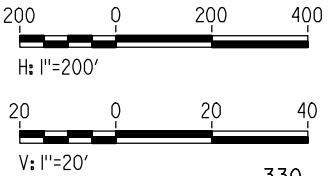
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WCD0/HYBRID - NB MERCED CONNECTION
AVENUE 24

PLAN AND PROFILE
STA 5135+00 TO STA 5190+00

CONTRACT NO. HSR06-007
DRAWING NO. T2362-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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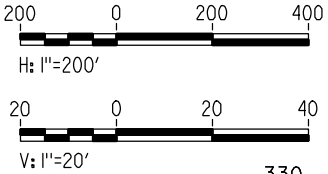


CURVE UPRR140
V = 145 MPH
R = 10000'
Ls = 1000'
Ea/Eu = 5.50/2.91
MINIMUM

NOTES:

- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

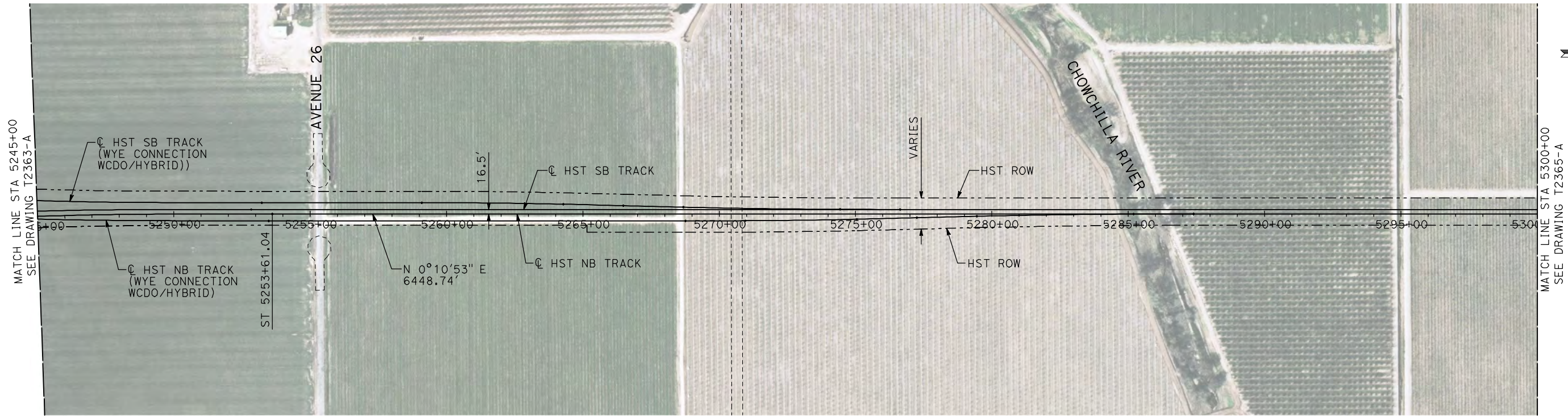
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5190+00 TO STA 5245+00

CONTRACT NO. HSR06-007
DRAWING NO. T2363-A
SCALE AS SHOWN
SHEET NO. ### OF ###

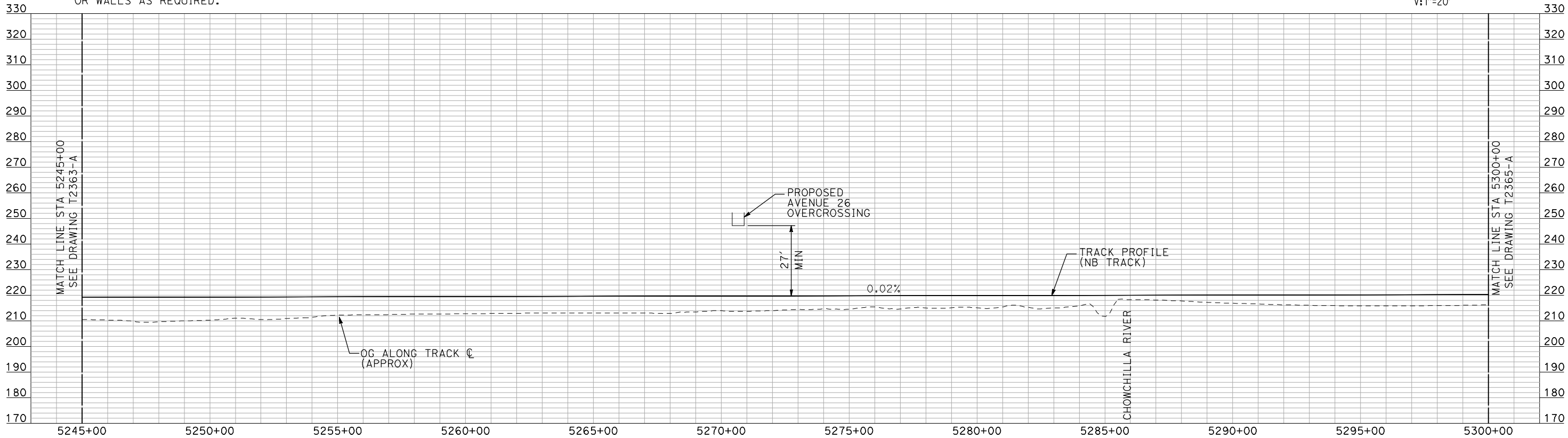
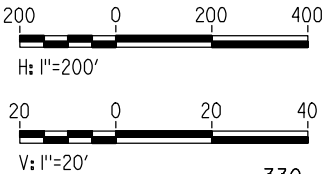
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

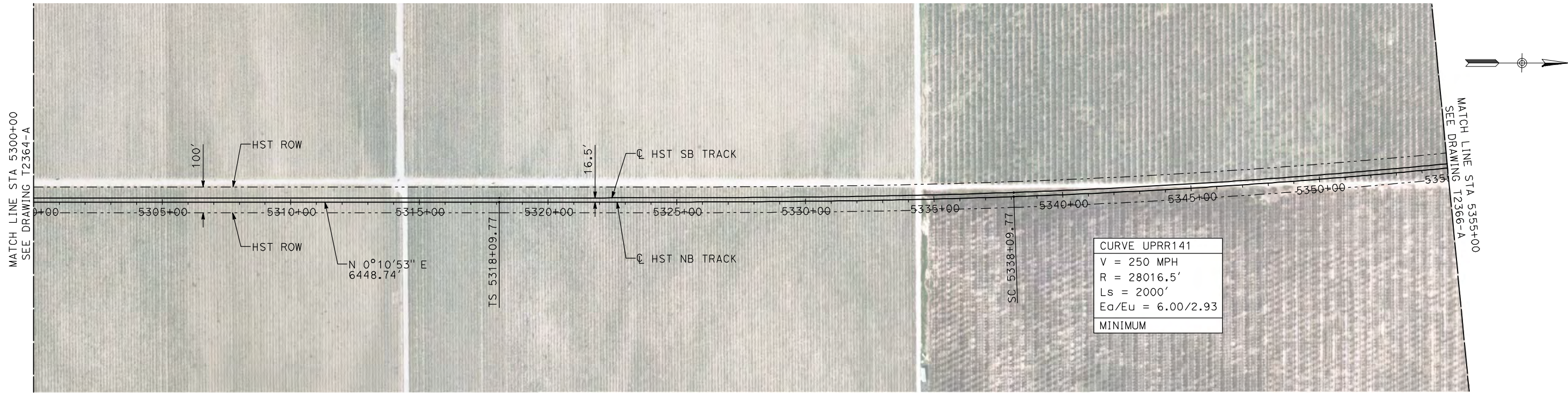


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5245+00 TO STA 5300+00

CONTRACT NO. HSR06-007
DRAWING NO. T2364-A
SCALE AS SHOWN
SHEET NO. ### OF ###

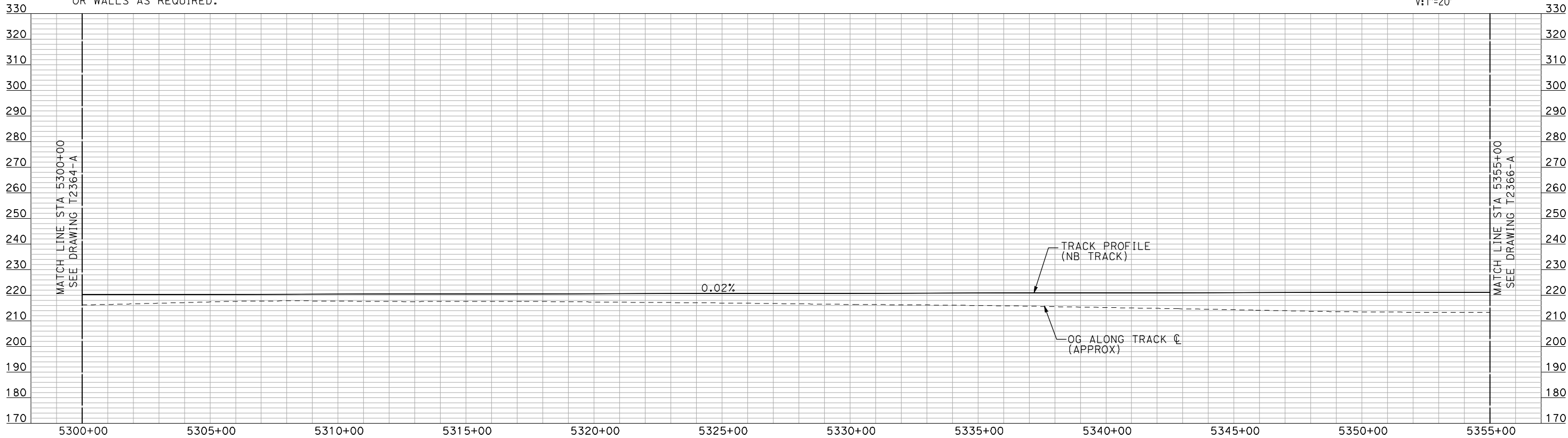
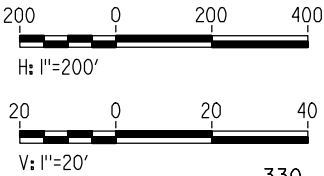
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

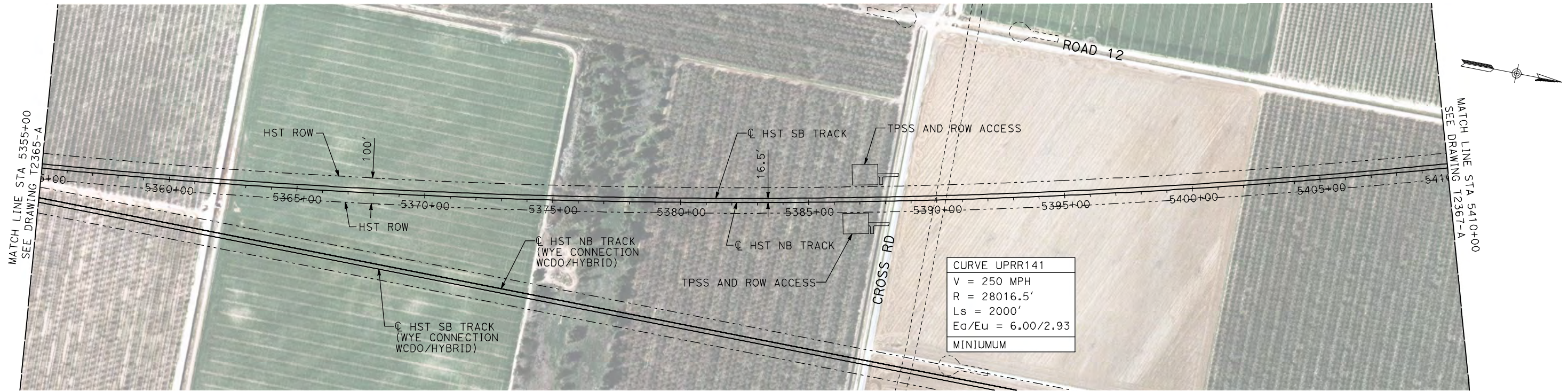


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5300+00 TO STA 5355+00

CONTRACT NO. HSR06-007
DRAWING NO. T2365-A
SCALE AS SHOWN
SHEET NO. ### OF ###

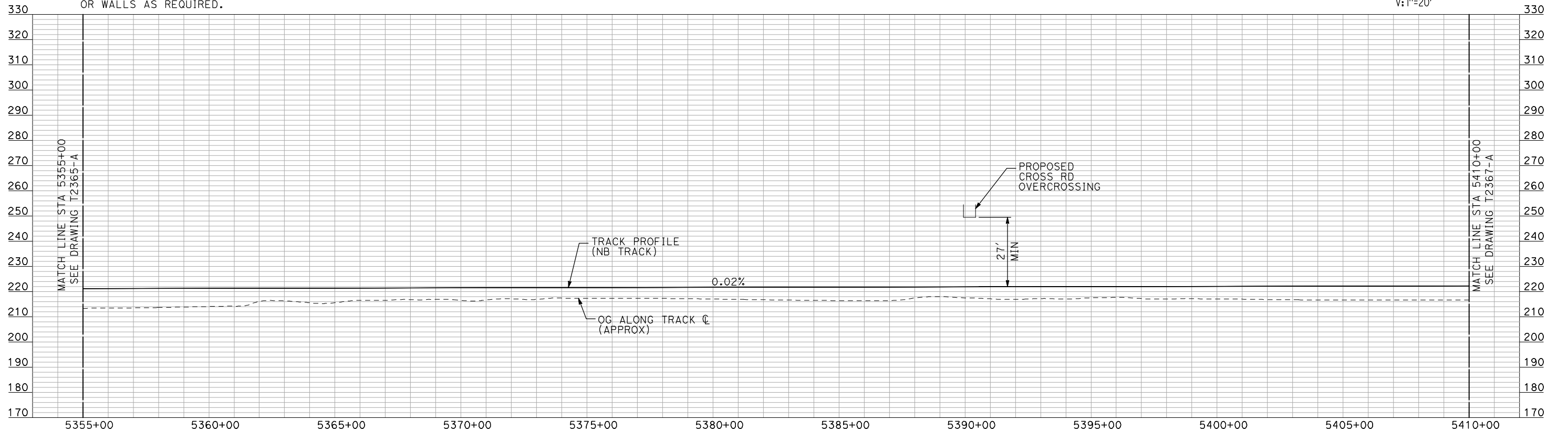
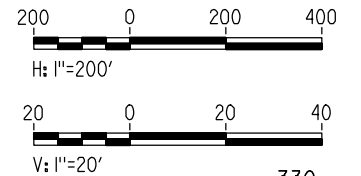
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

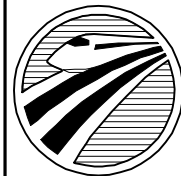
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL

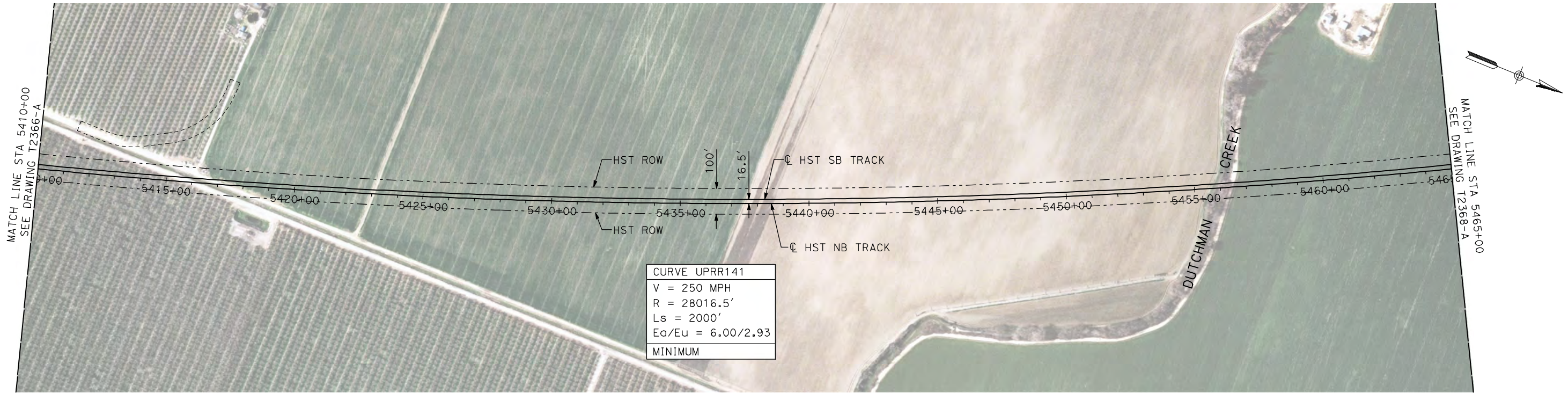


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5355+00 TO STA 5410+00

CONTRACT NO. HSR06-007
DRAWING NO. T2366-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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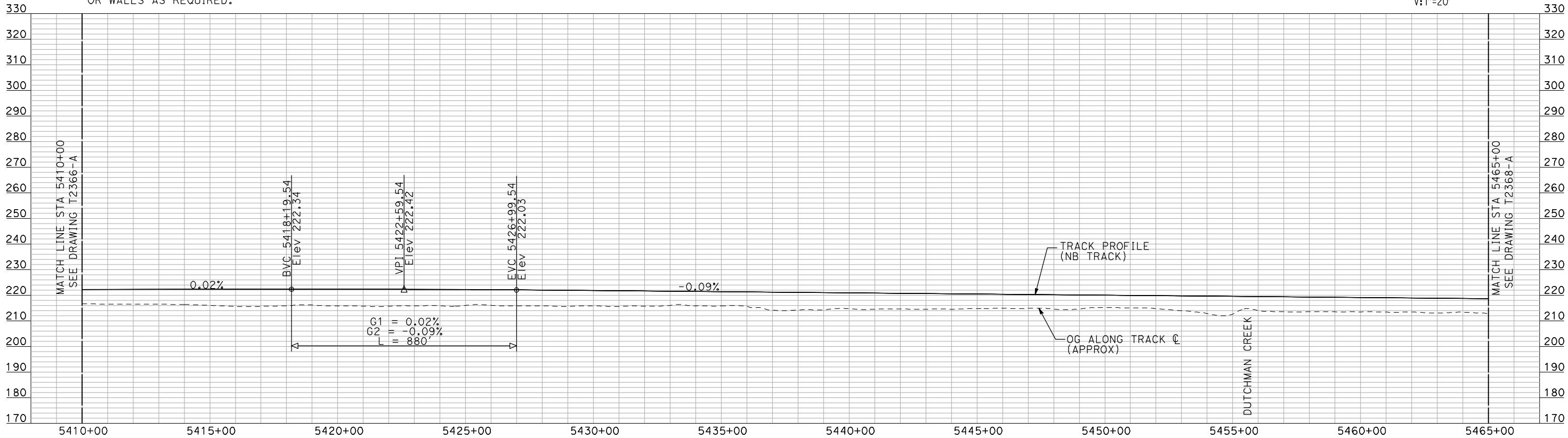
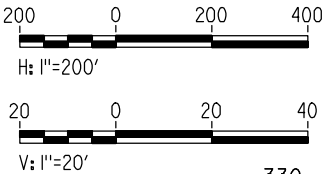


CURVE UPRR141
V = 250 MPH
R = 28016.5'
Ls = 2000'
Ea/Eu = 6.00/2.93
MINIMUM

NOTES:

- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

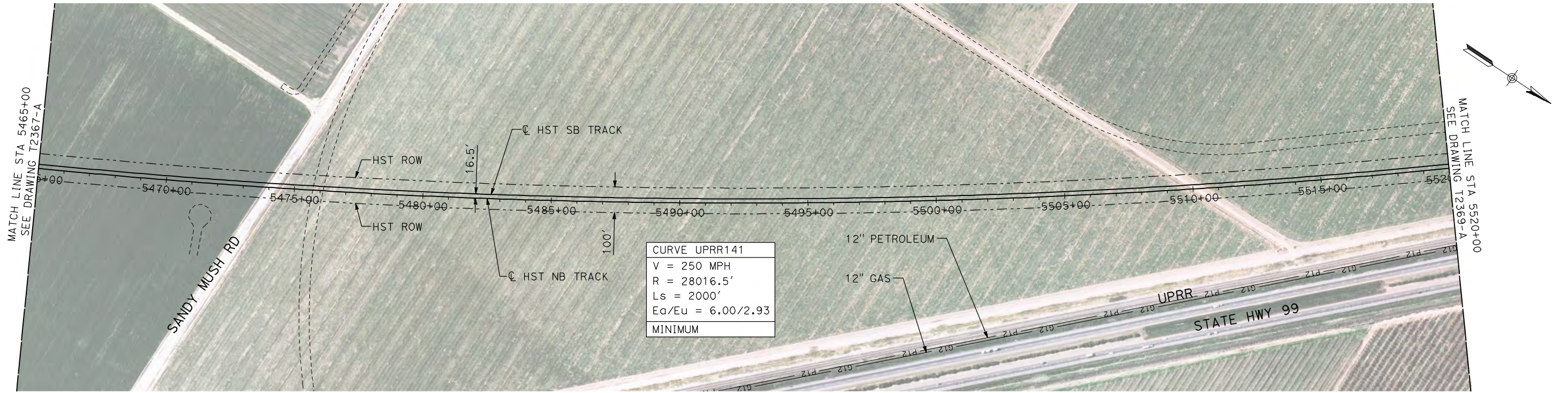


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5410+00 TO STA 5465+00

CONTRACT NO. HSR06-007
DRAWING NO. T2367-A
SCALE AS SHOWN
SHEET NO. ### OF ###

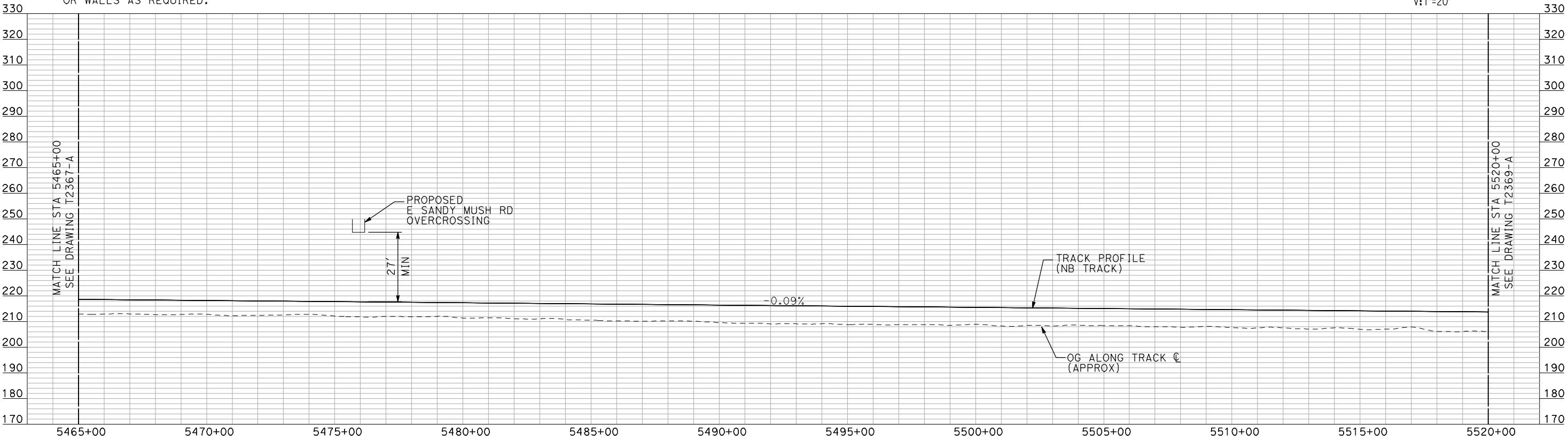
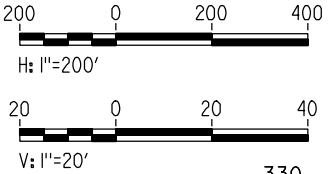
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NOTES:

- 1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

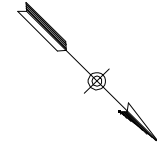
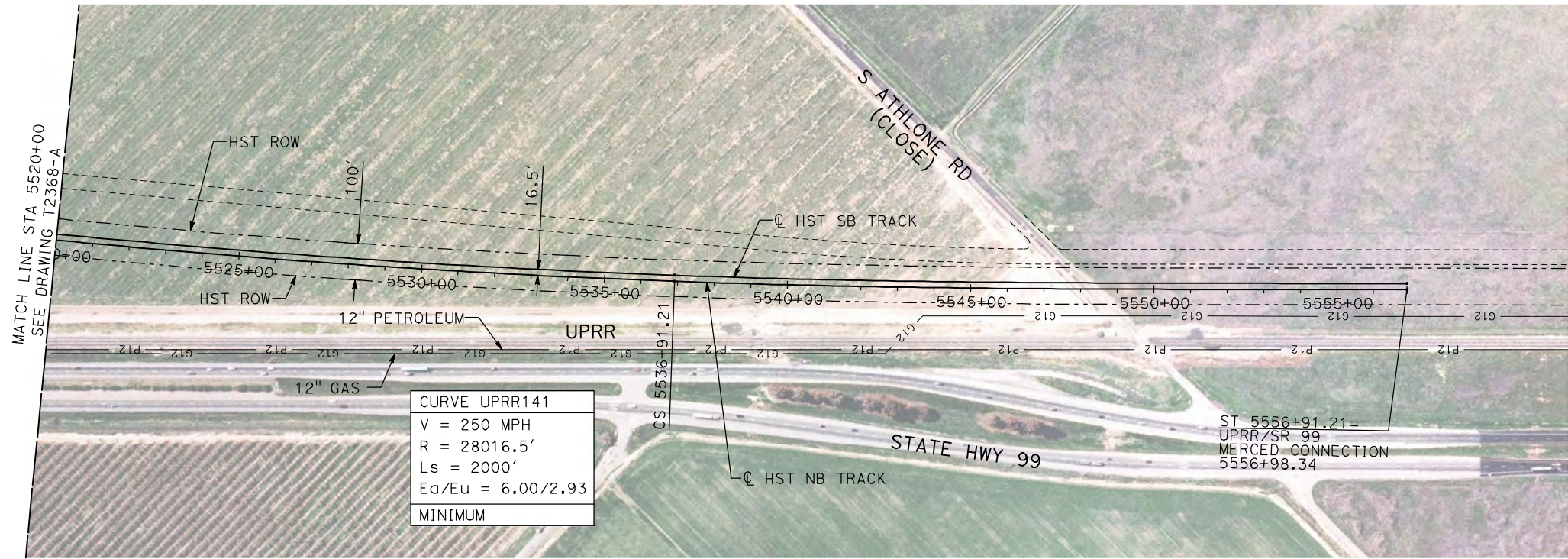
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5465+00 TO STA 5520+00

CONTRACT NO. HSR06-007
DRAWING NO. T2368-A
SCALE AS SHOWN
SHEET NO. ### OF ###

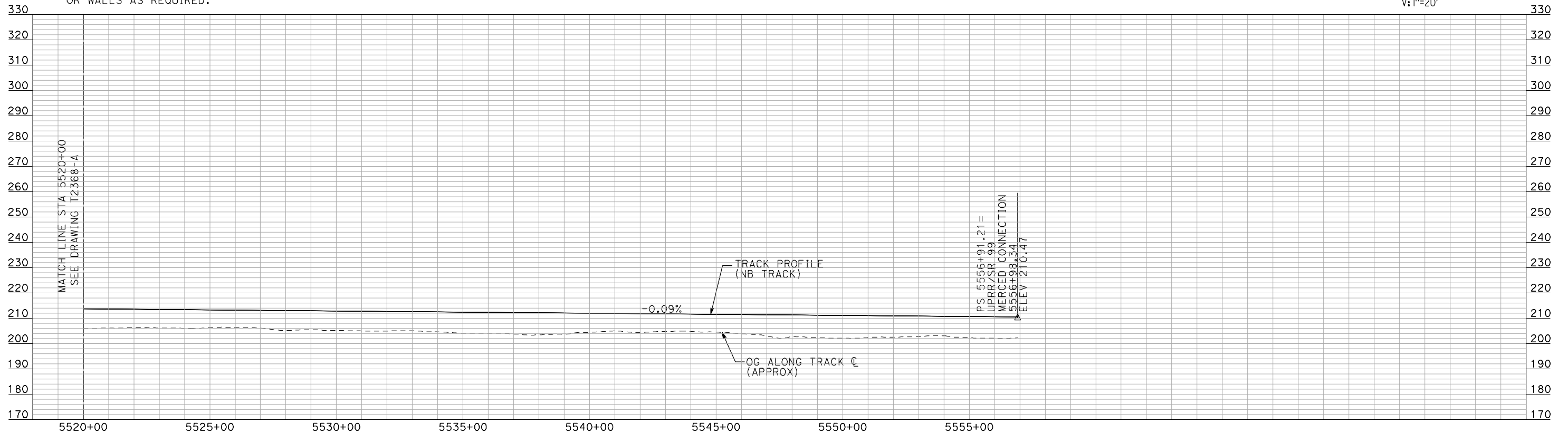
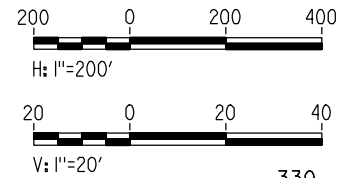
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

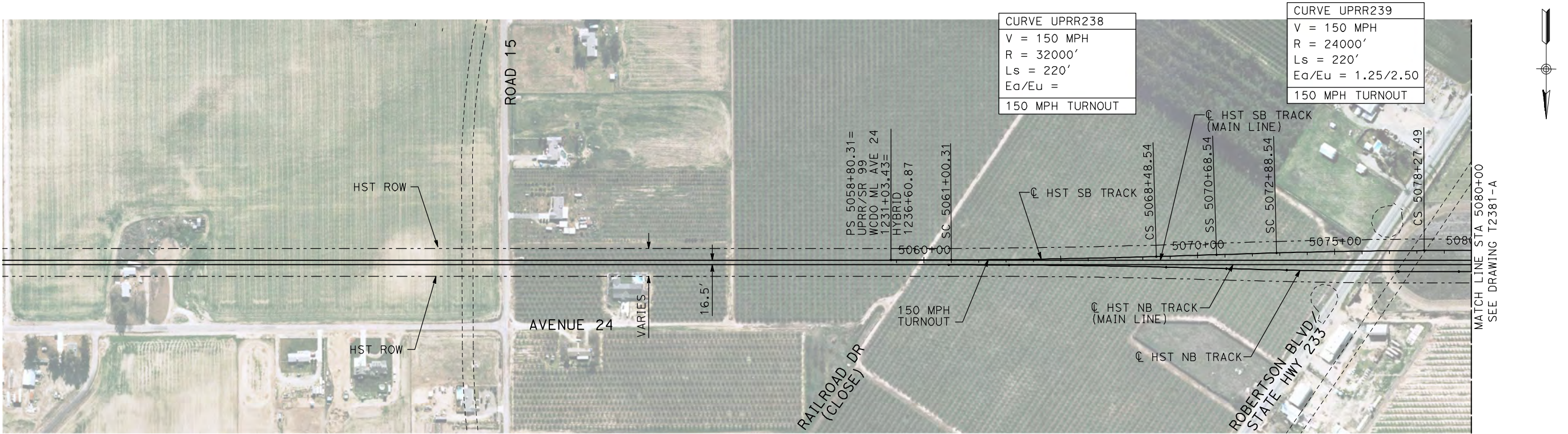


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5520+00 TO STA 5556+91.21

CONTRACT NO. HSR06-007
DRAWING NO. T2369-A
SCALE AS SHOWN
SHEET NO. ### OF ###

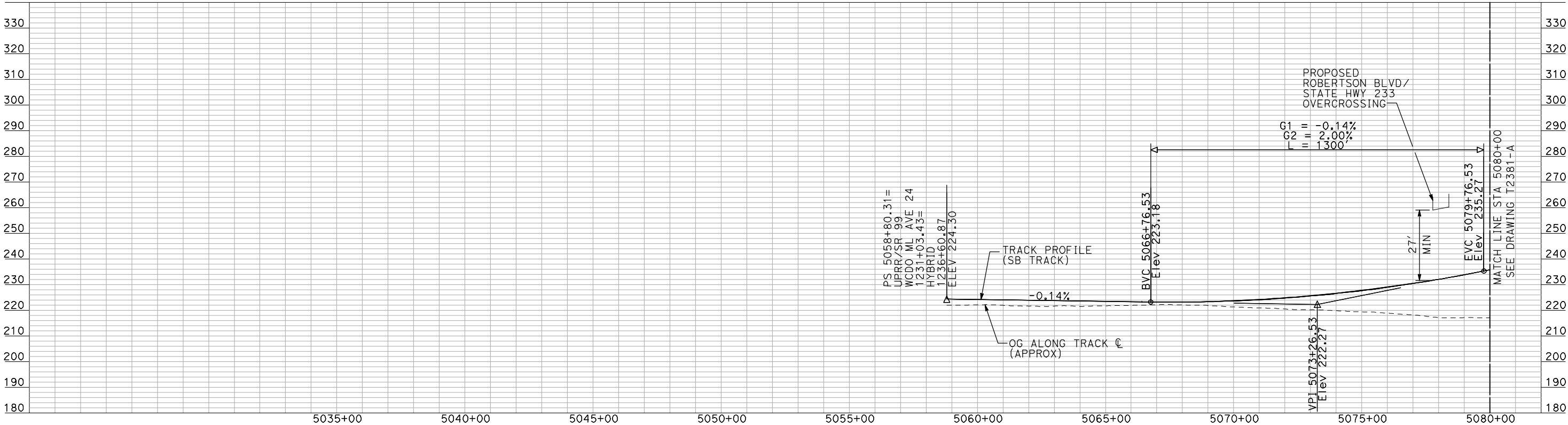
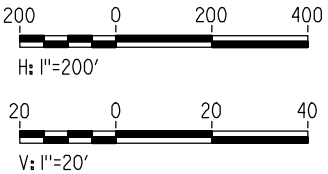
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

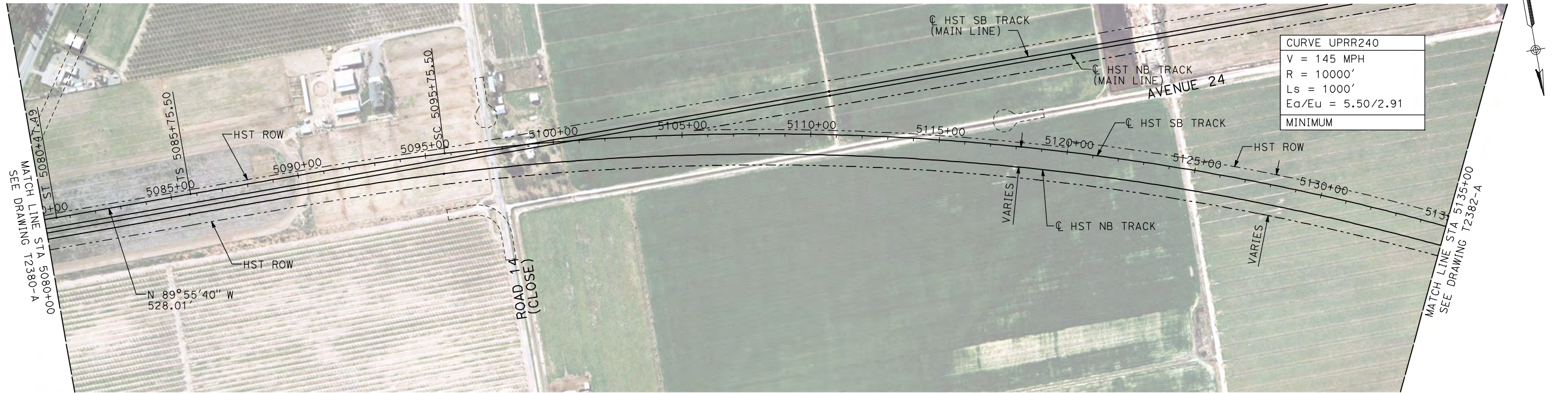


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5058+80.31 TO STA 5080+00

CONTRACT NO. HSR06-007
DRAWING NO. T2380-A
SCALE AS SHOWN
SHEET NO. ### OF ###

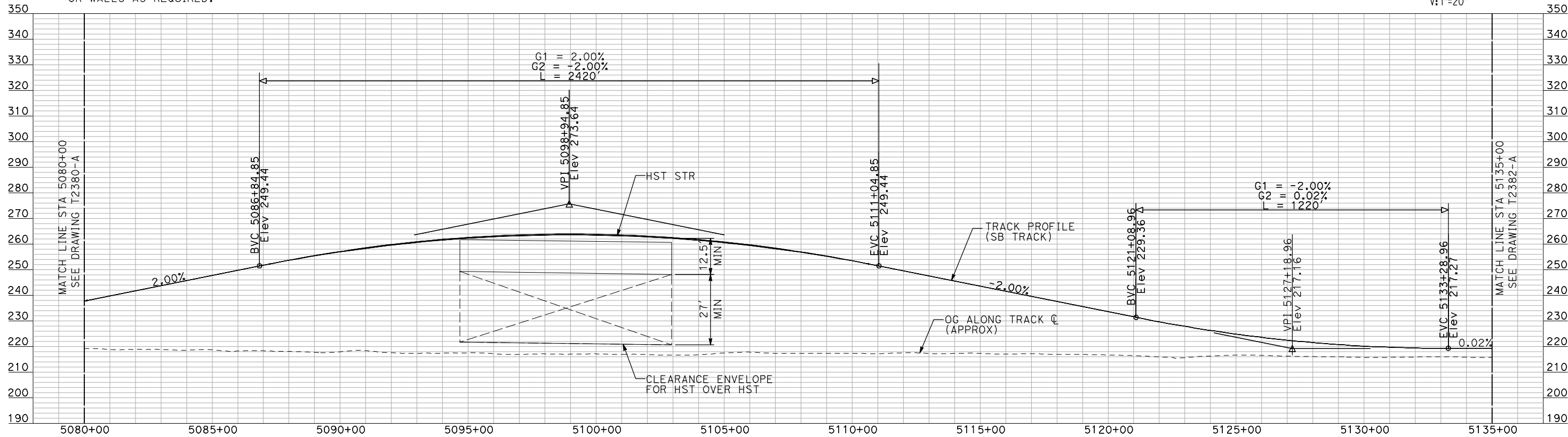
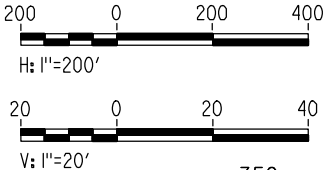
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



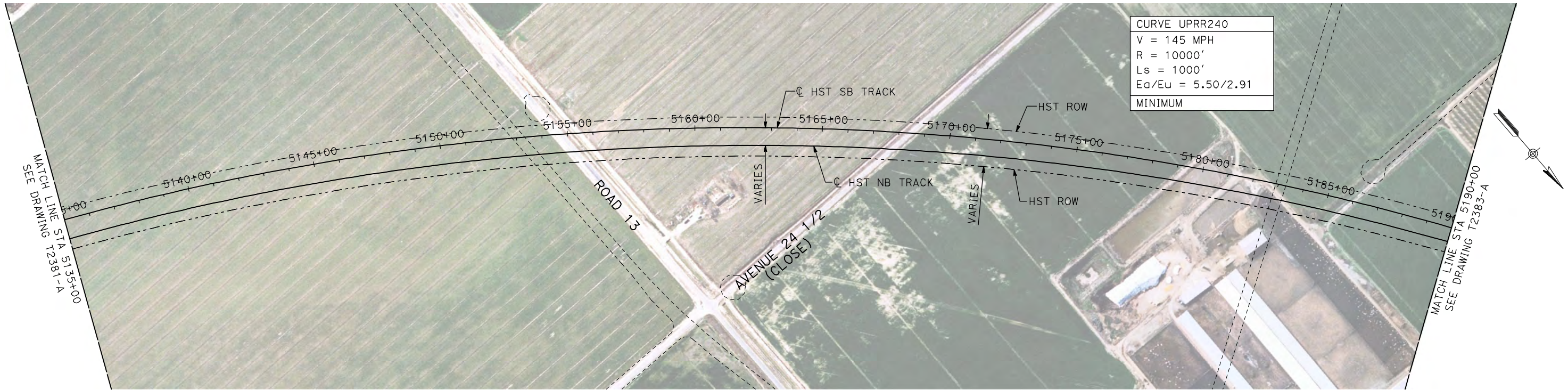
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5080+00 TO STA 5135+00

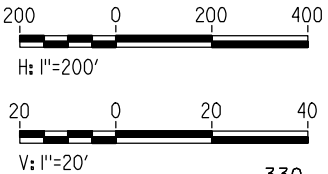
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DRAWING NO. T2381-A
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

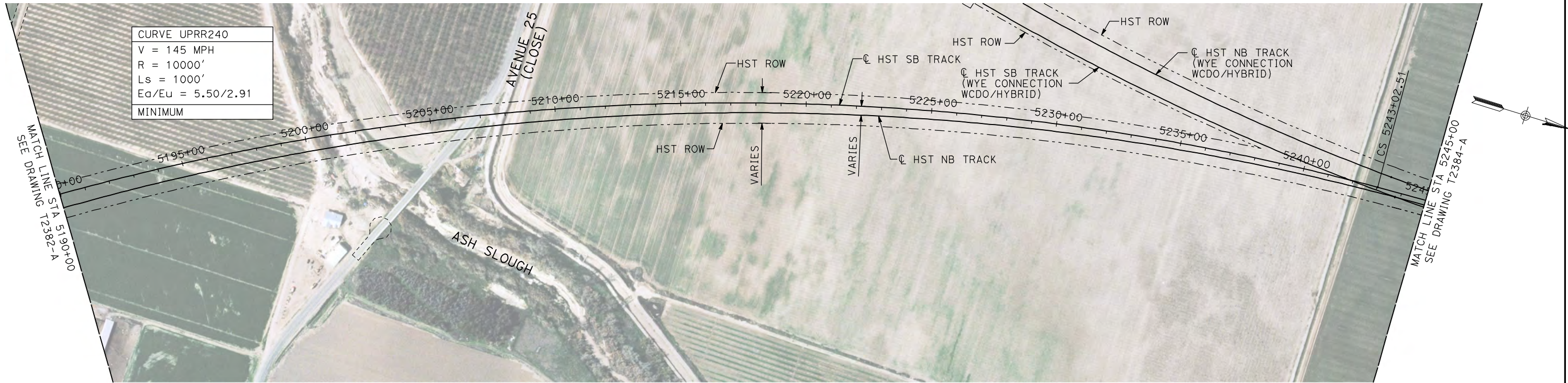


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5135+00 TO STA 5190+00

CONTRACT NO. HSR06-007
DRAWING NO. T2382-A
SCALE AS SHOWN
SHEET NO. ### OF ###

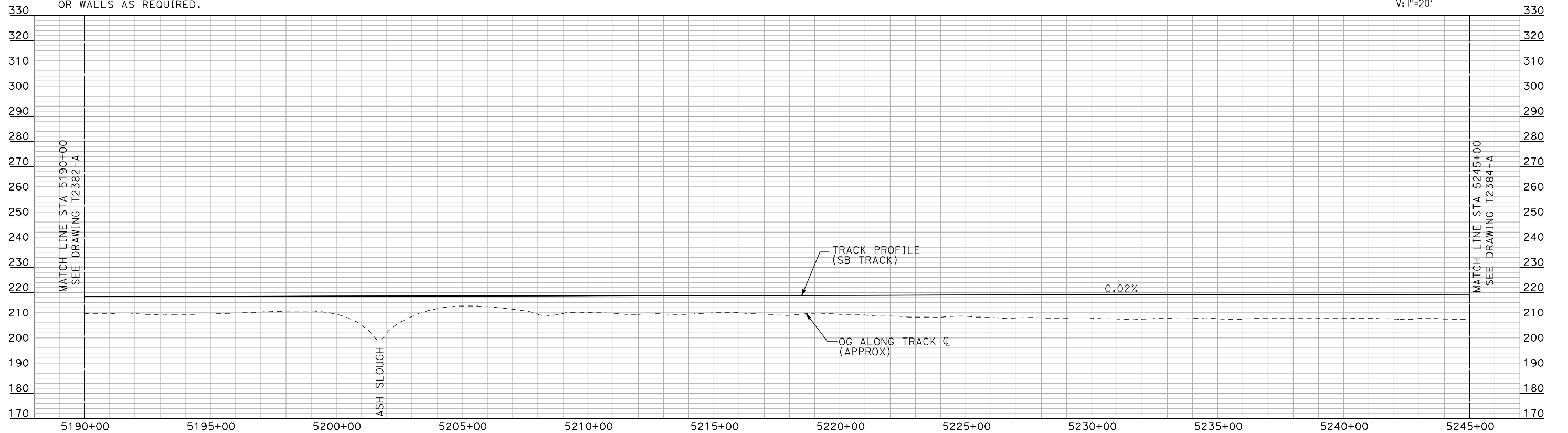
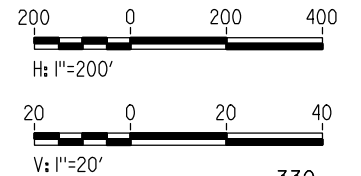
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NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

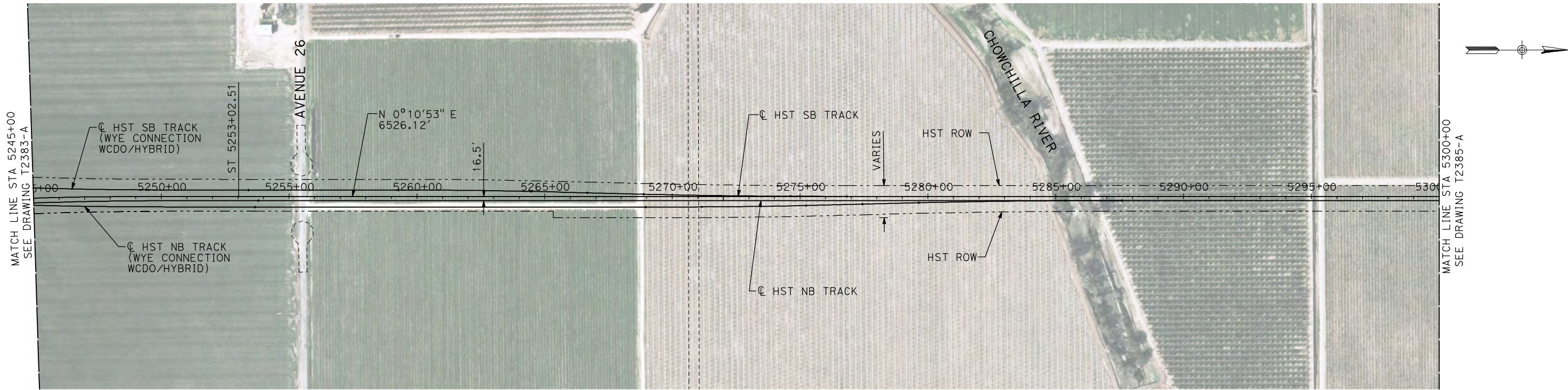
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5190+00 TO STA 5245+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2383-A
SCALE
AS SHOWN
SHEET NO.
OF

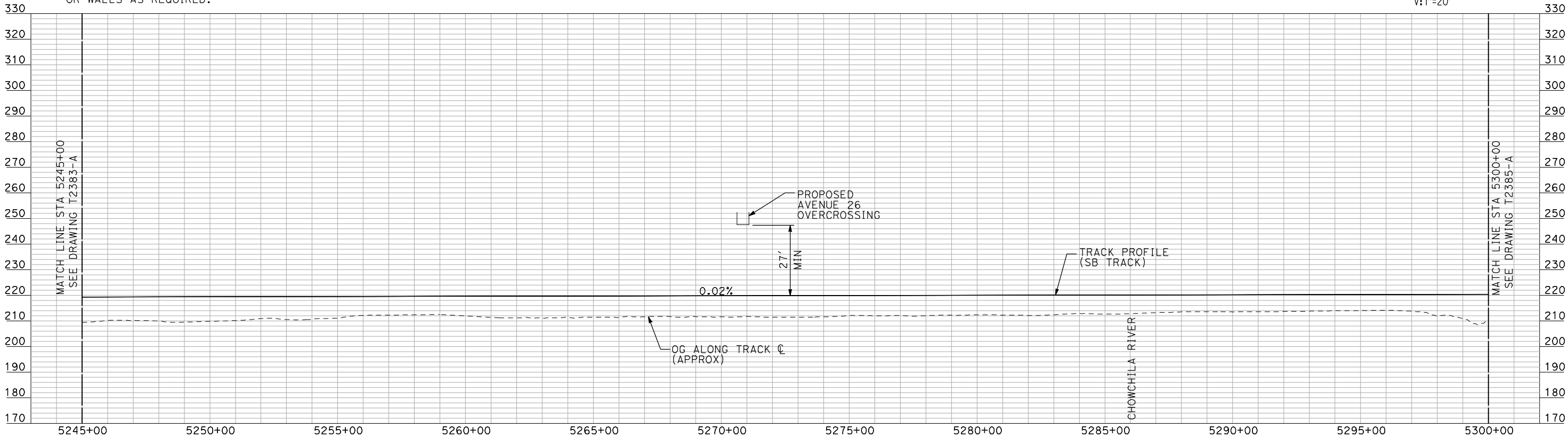
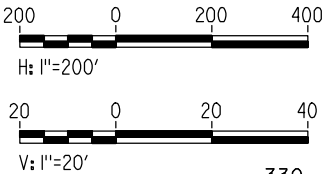
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

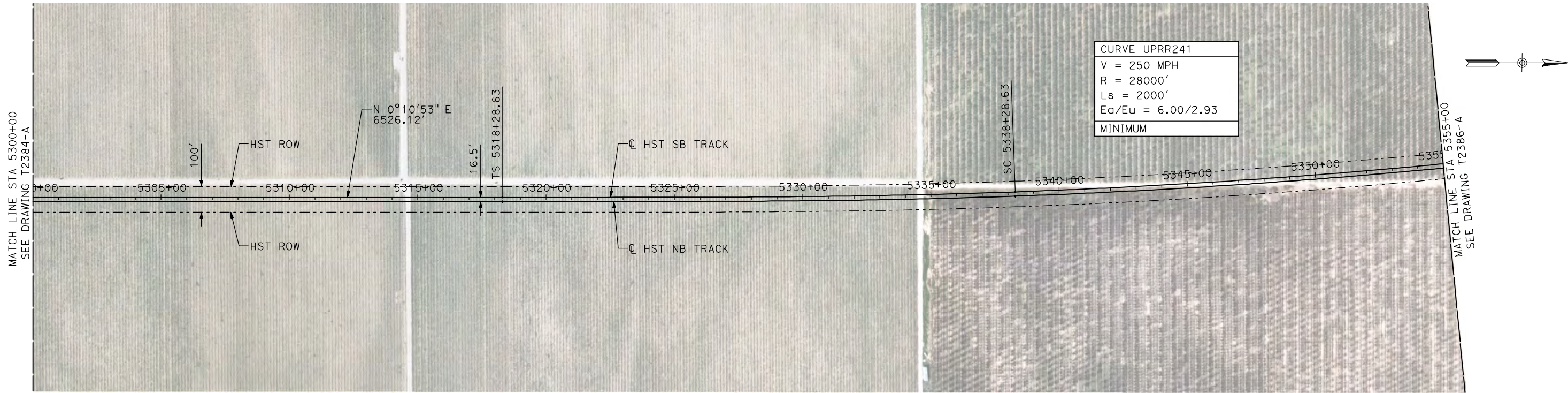
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5245+00 TO STA 5300+00

CONTRACT NO. HSR06-007
DRAWING NO. T2384-A
SCALE AS SHOWN
SHEET NO. ### OF ###

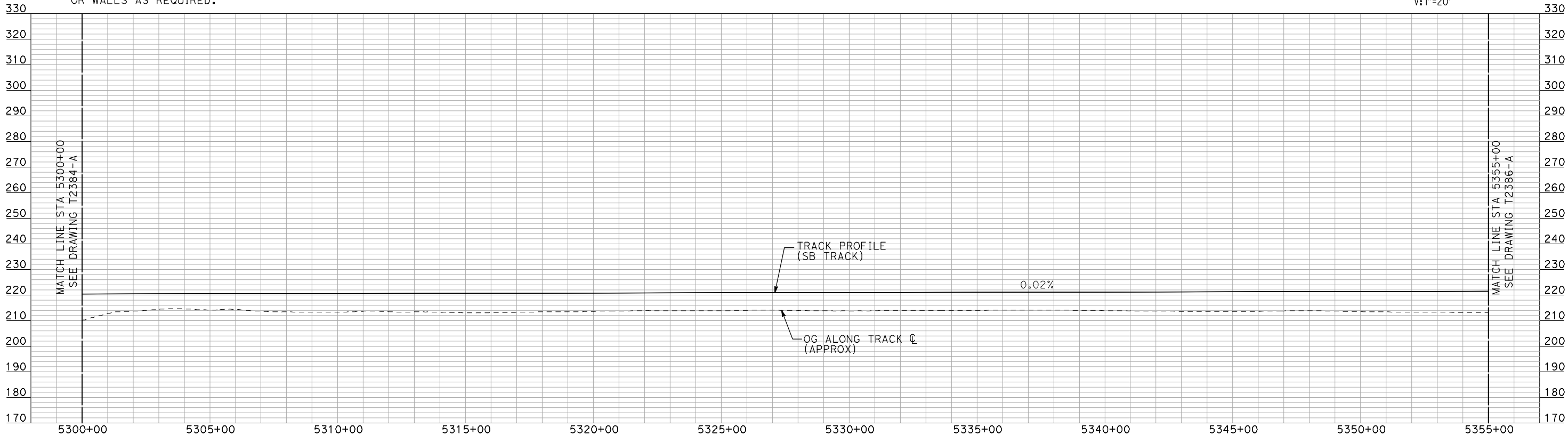
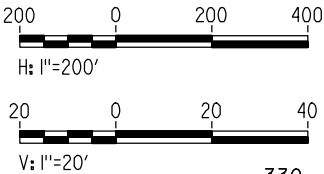
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

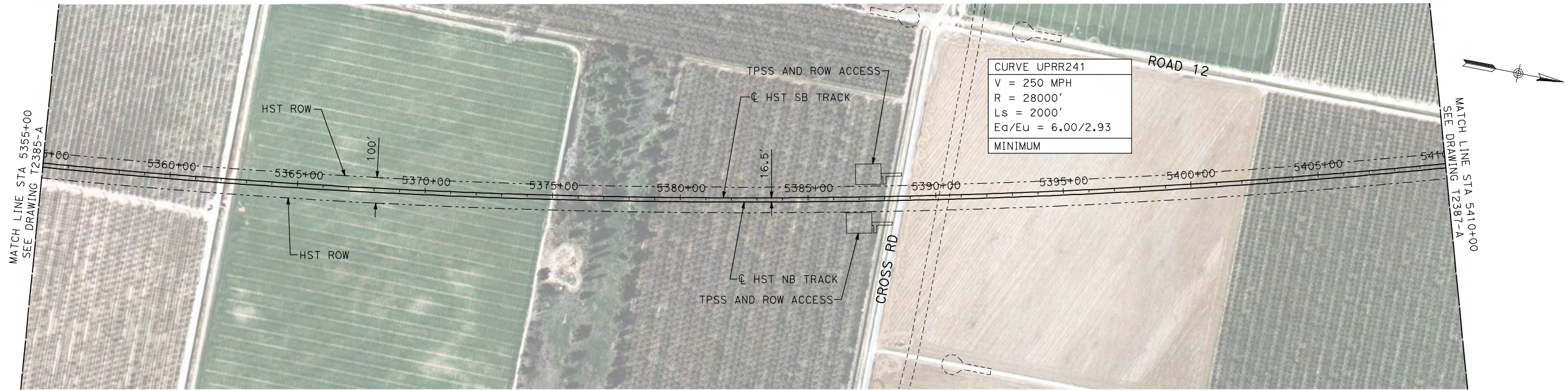


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5300+00 TO STA 5355+00

CONTRACT NO. HSR06-007
DRAWING NO. T2385-A
SCALE AS SHOWN
SHEET NO. ### OF ###

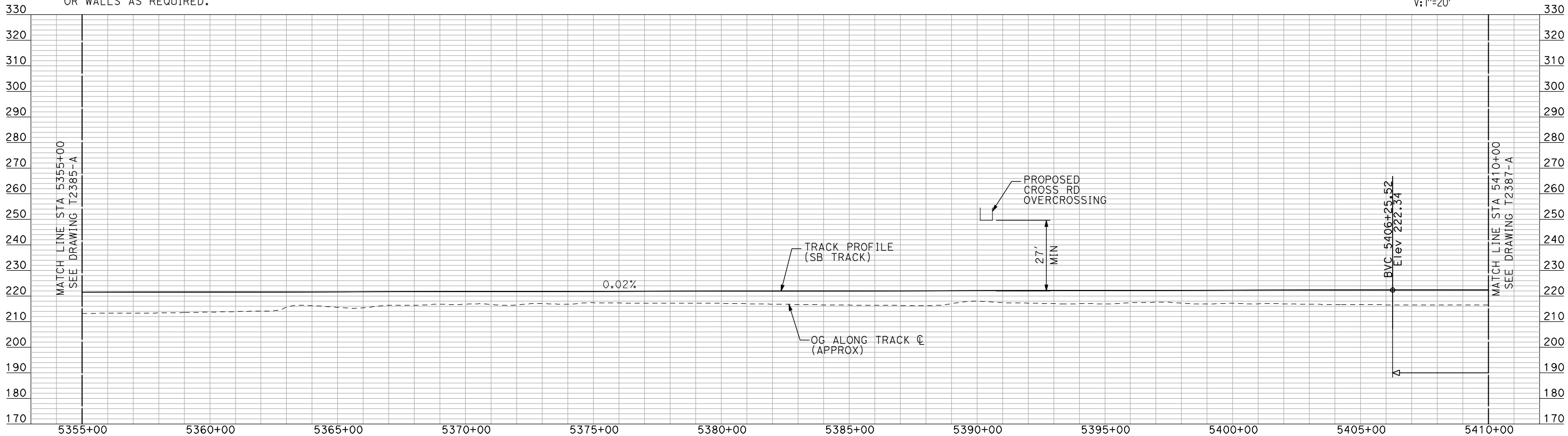
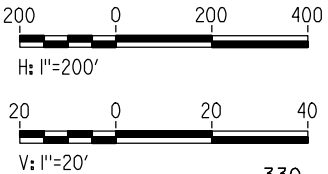
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

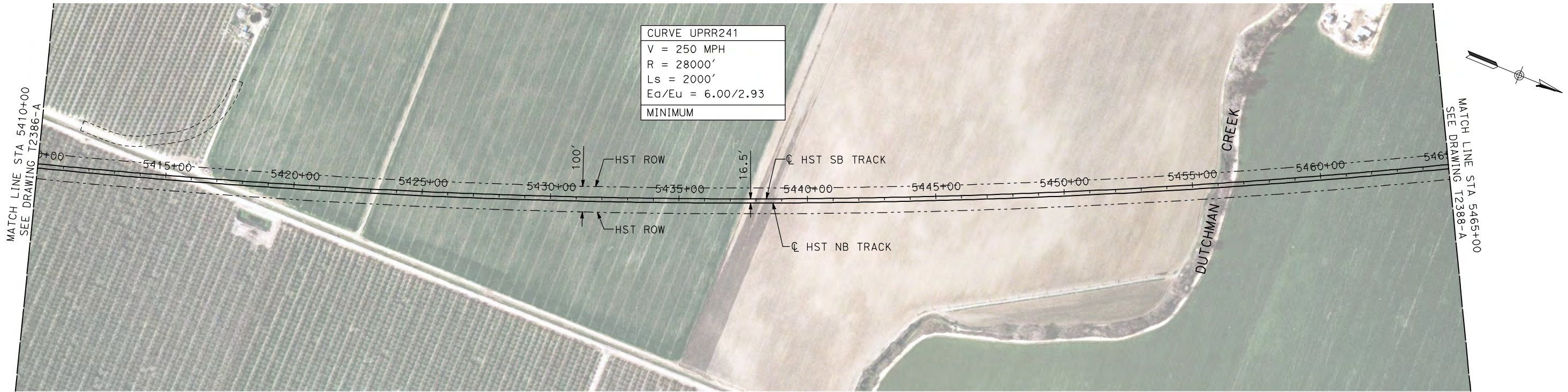


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5355+00 TO STA 5410+00

CONTRACT NO. HSR06-007
DRAWING NO. T2386-A
SCALE AS SHOWN
SHEET NO. ### OF ###

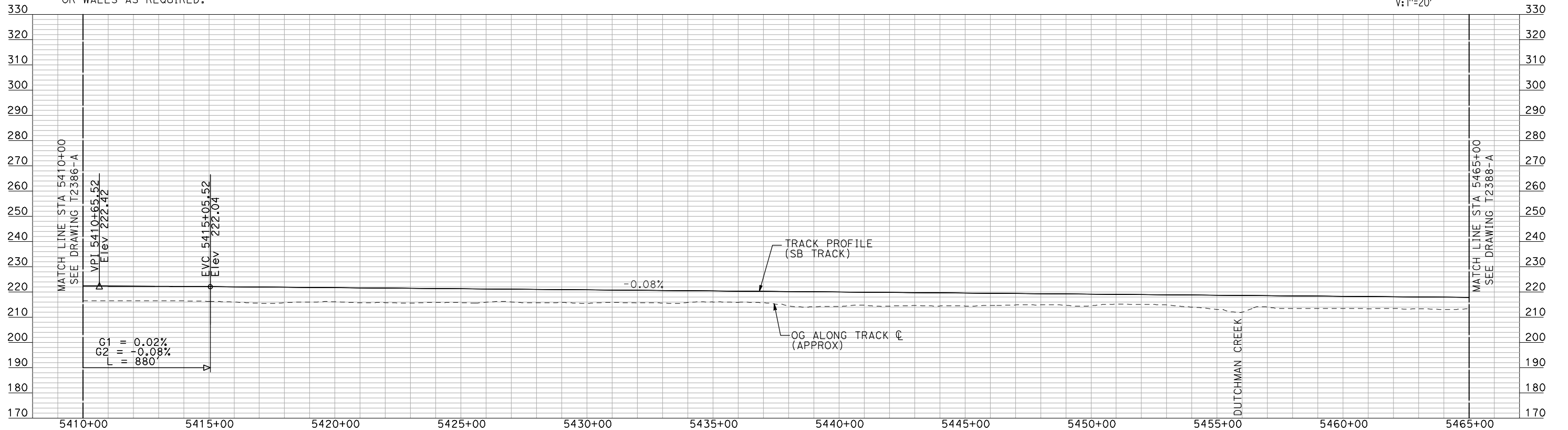
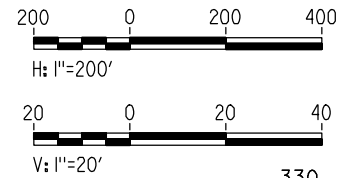
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



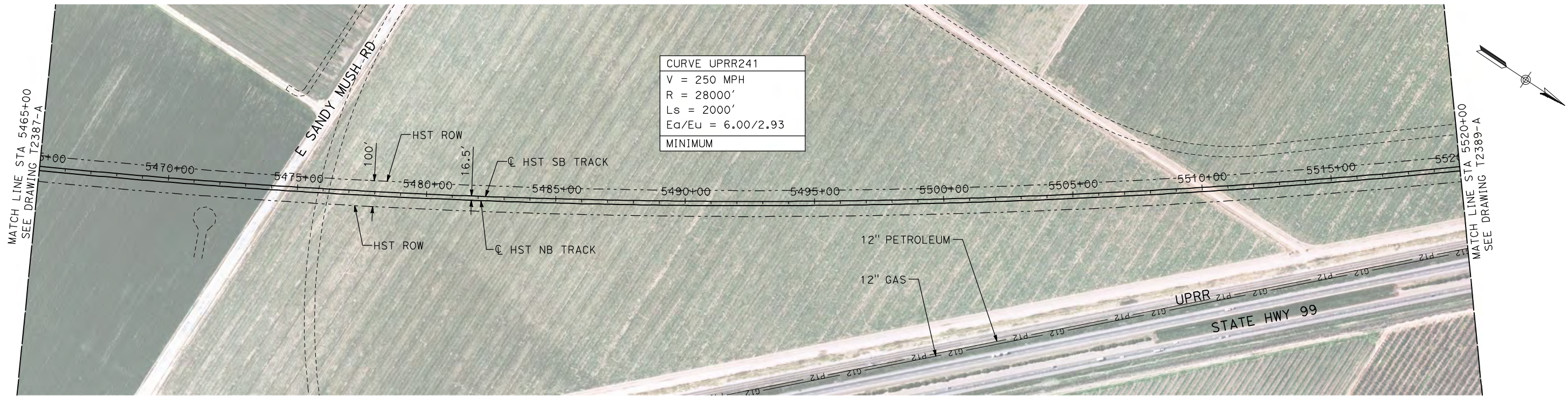
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24

PLAN AND PROFILE
STA 5410+00 TO STA 5465+00

CONTRACT NO. HSR06-007
DRAWING NO. T2387-A
SCALE AS SHOWN
SHEET NO. ### OF ###

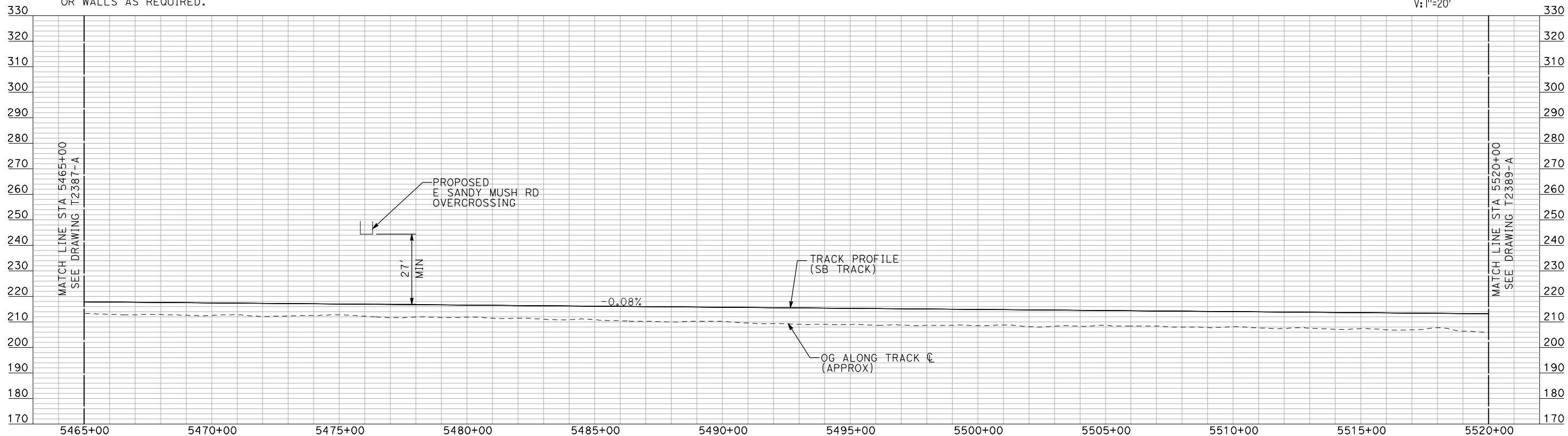
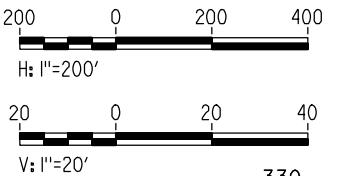
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

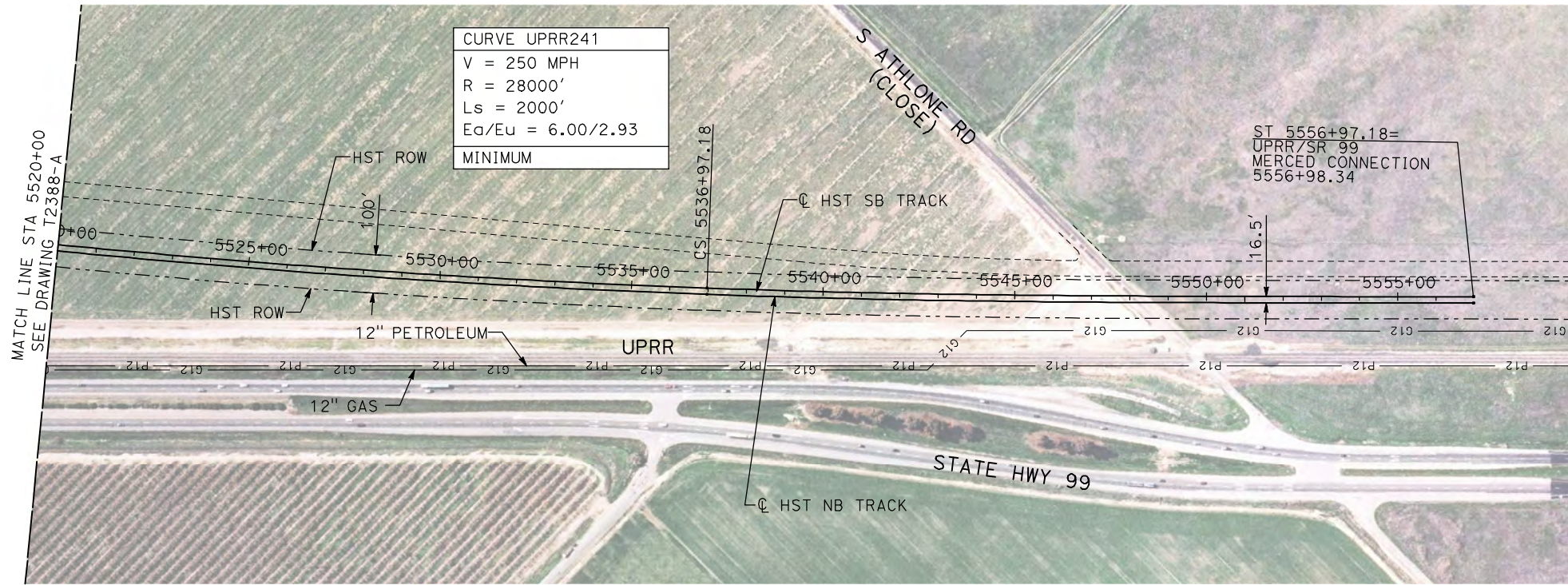


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5465+00 TO STA 5520+00

CONTRACT NO. HSR06-007
DRAWING NO. T2388-A
SCALE AS SHOWN
SHEET NO. ### OF ###

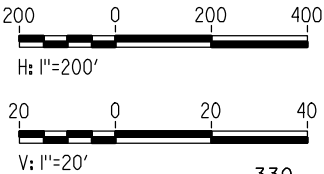
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

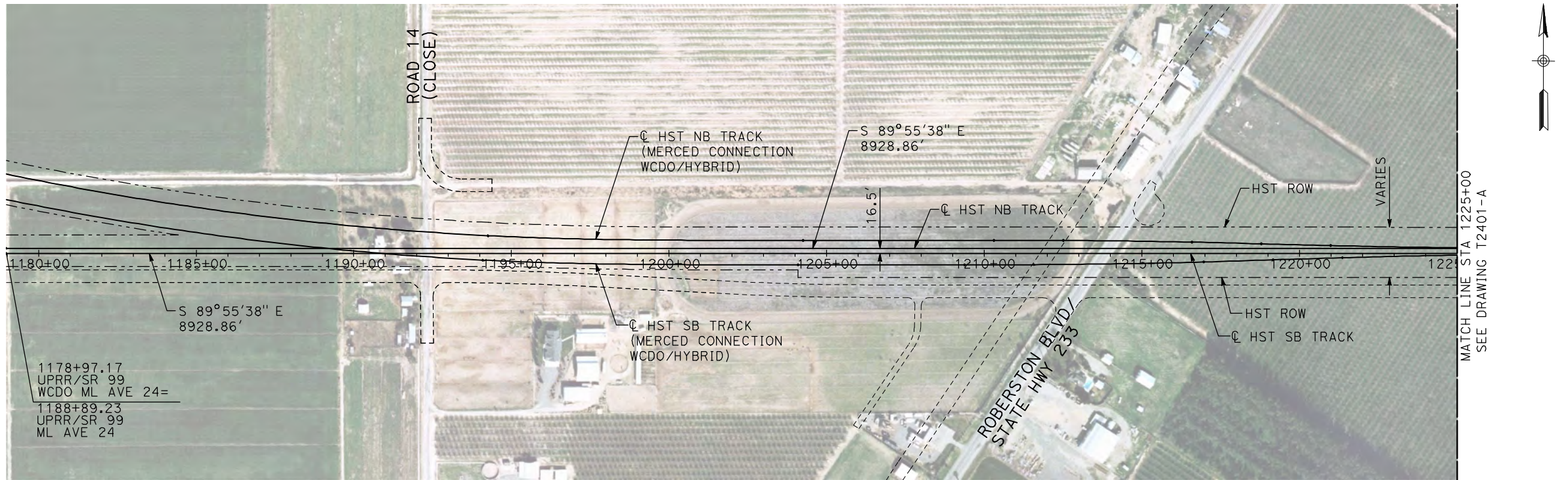


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5520+00 TO STA 5556+97.18

CONTRACT NO. HSR06-007
DRAWING NO. T2389-A
SCALE AS SHOWN
SHEET NO. ### OF ###

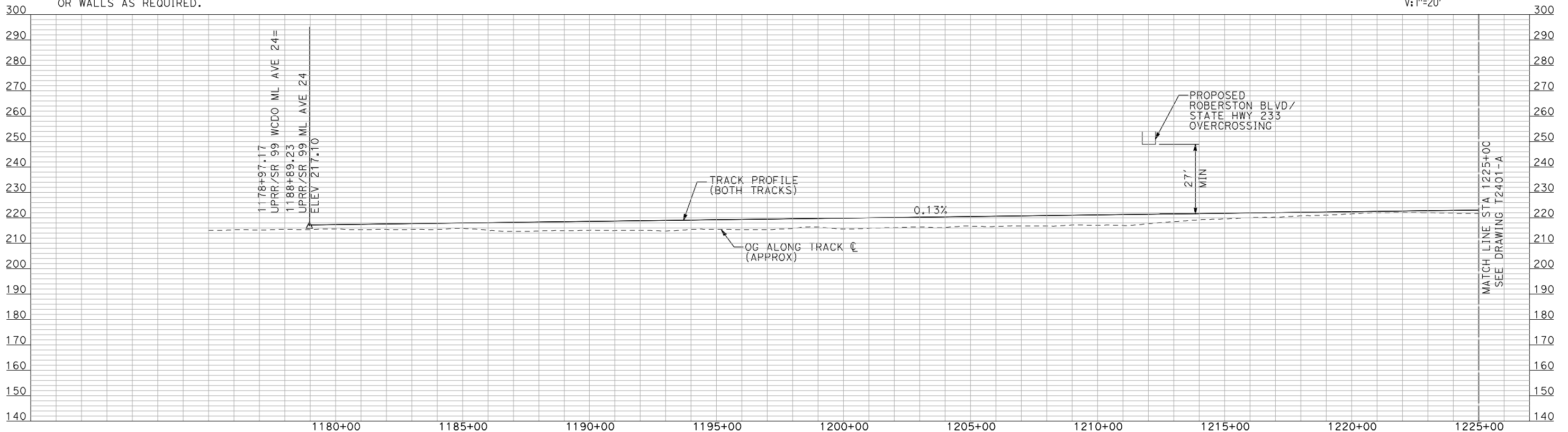
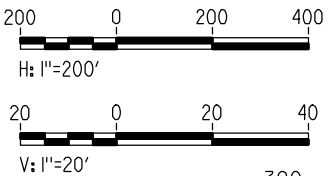
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

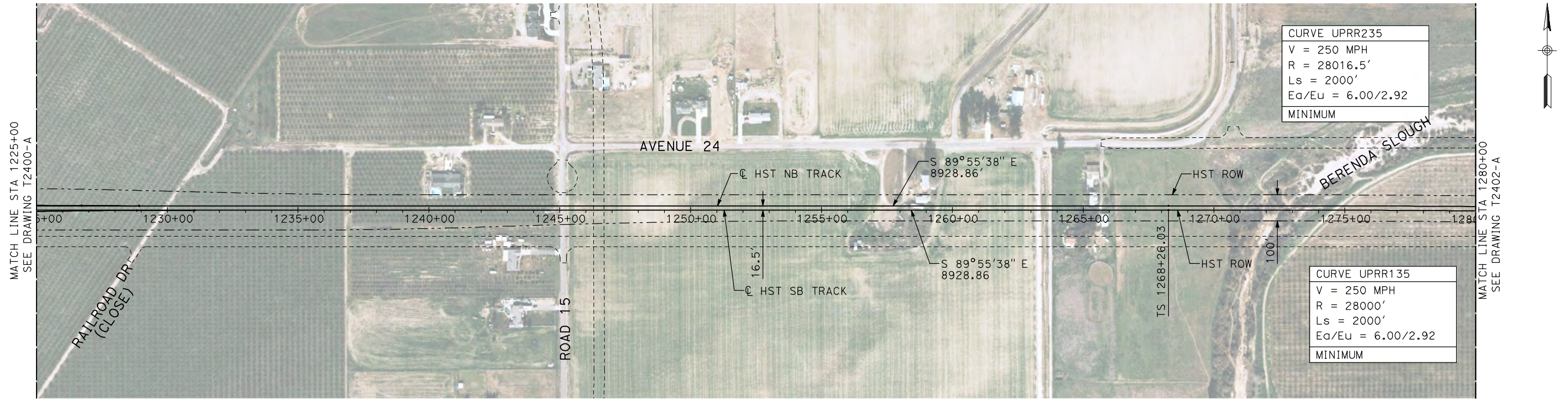


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

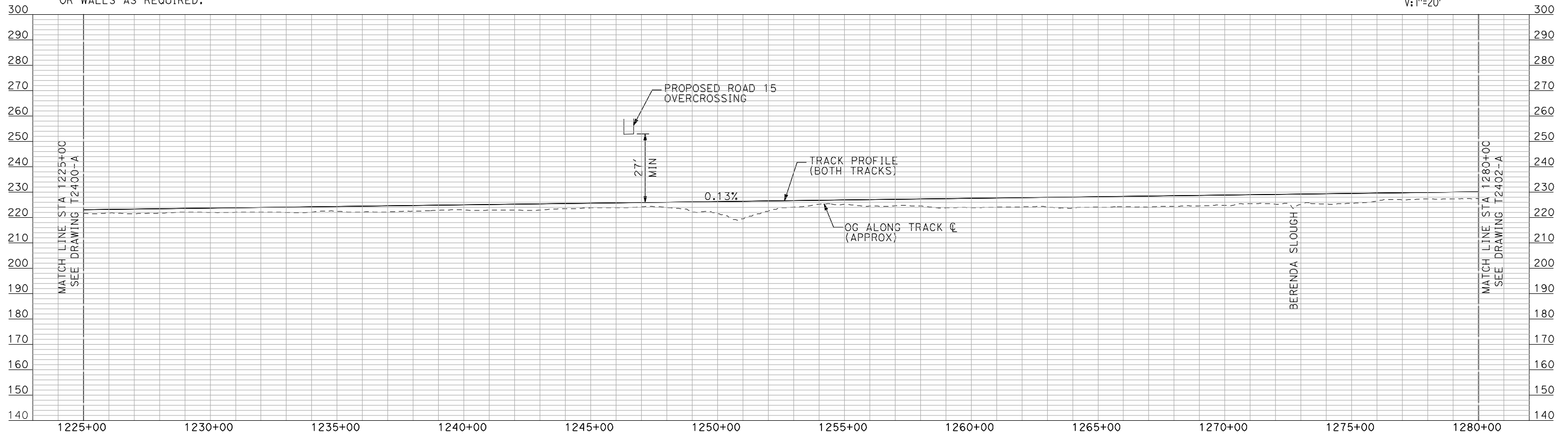
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1178+97.17 TO STA 1225+00

CONTRACT NO. HSR06-007
DRAWING NO. T2400-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

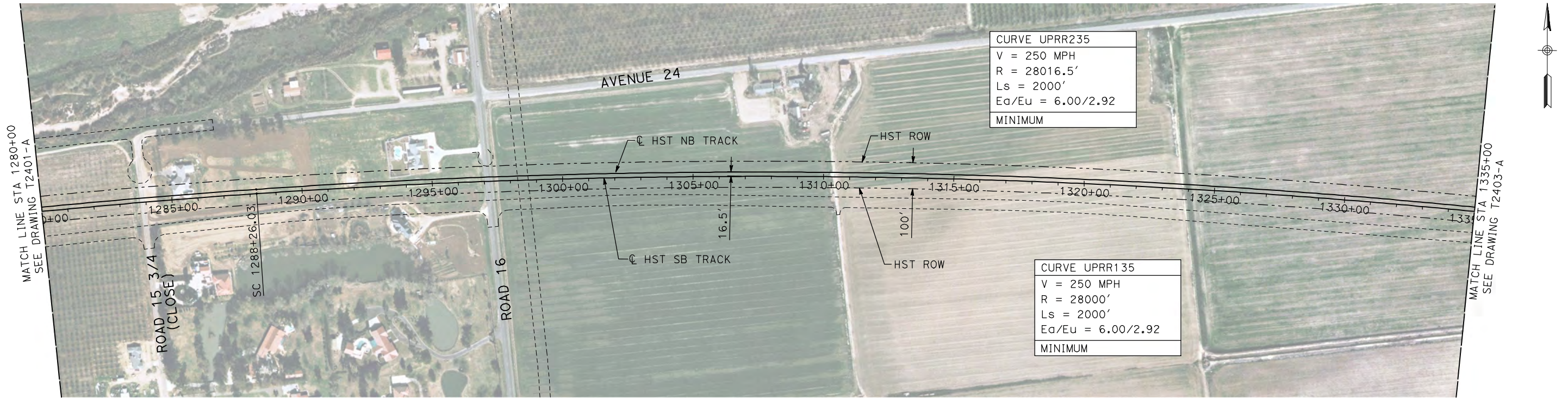


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1225+00 TO STA 1280+00

CONTRACT NO. HSR06-007
DRAWING NO. T2401-A
SCALE AS SHOWN
SHEET NO. ### OF ###

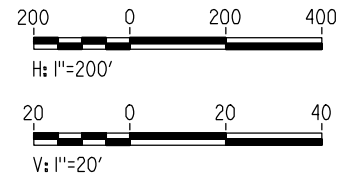
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

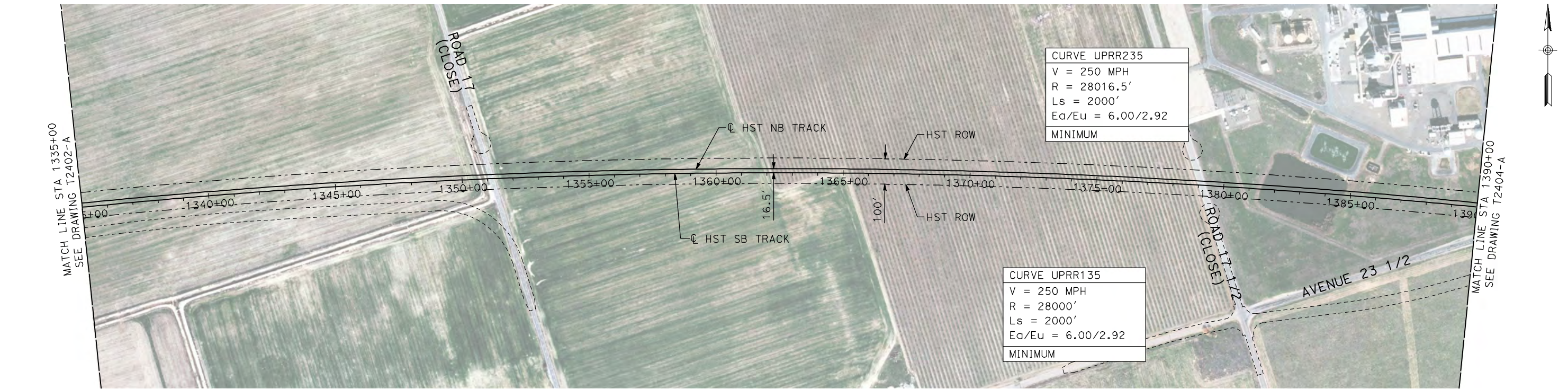


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1280+00 TO STA 1335+00

CONTRACT NO. HSR06-007
DRAWING NO. T2402-A
SCALE AS SHOWN
SHEET NO. ### OF ###

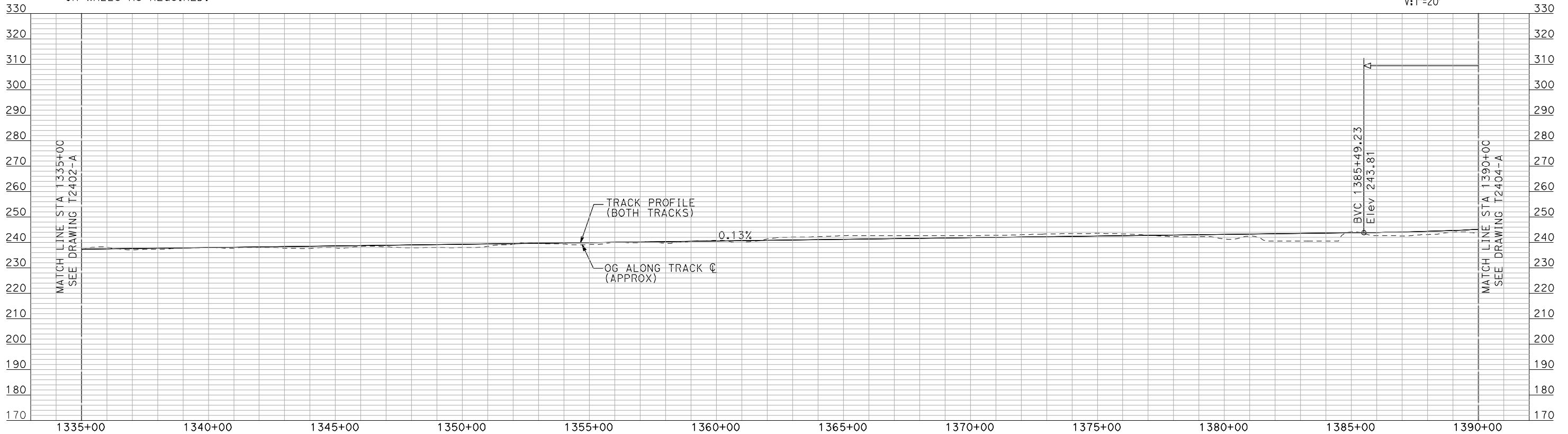
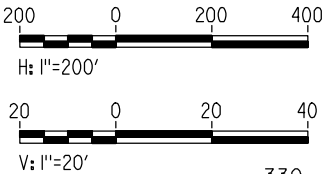
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

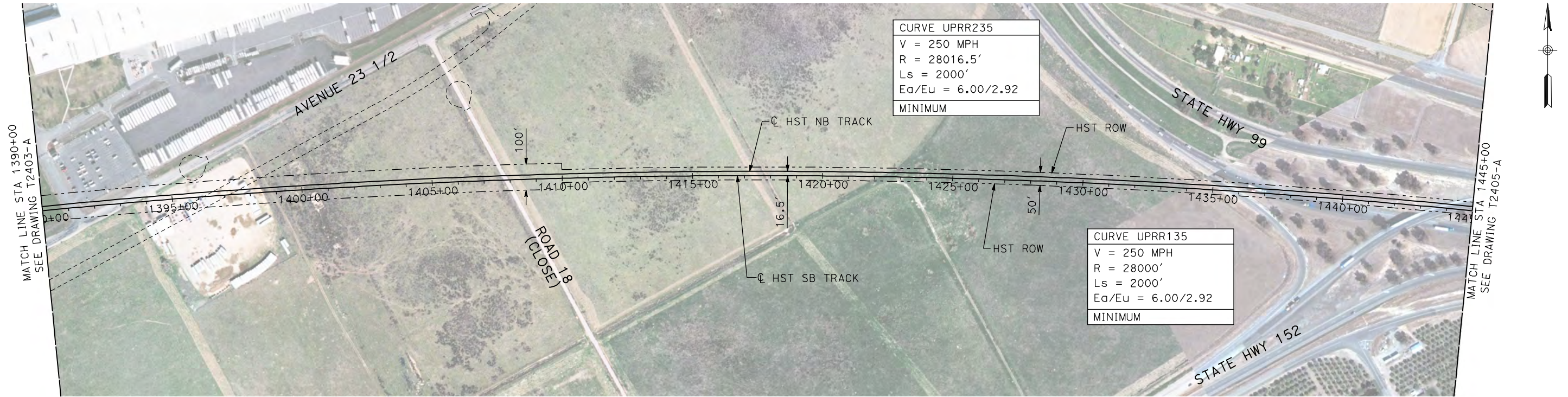


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1335+00 TO STA 1390+00

CONTRACT NO. HSR06-007
DRAWING NO. T2403-A
SCALE AS SHOWN
SHEET NO. ### OF ###

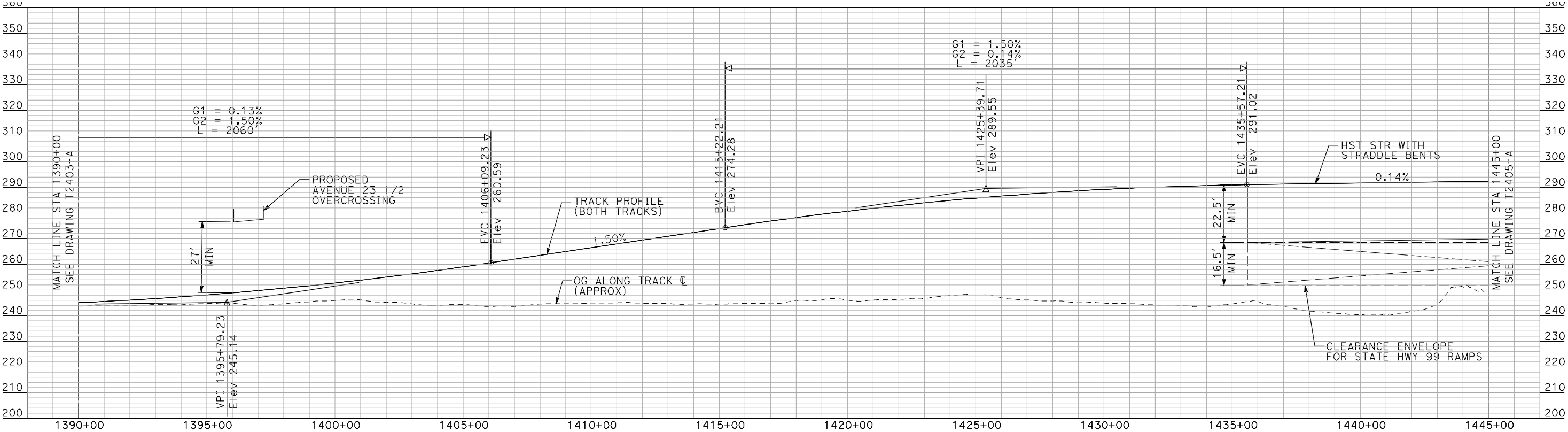
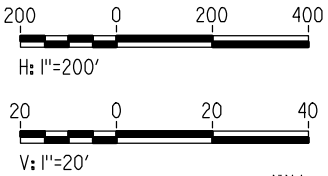
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

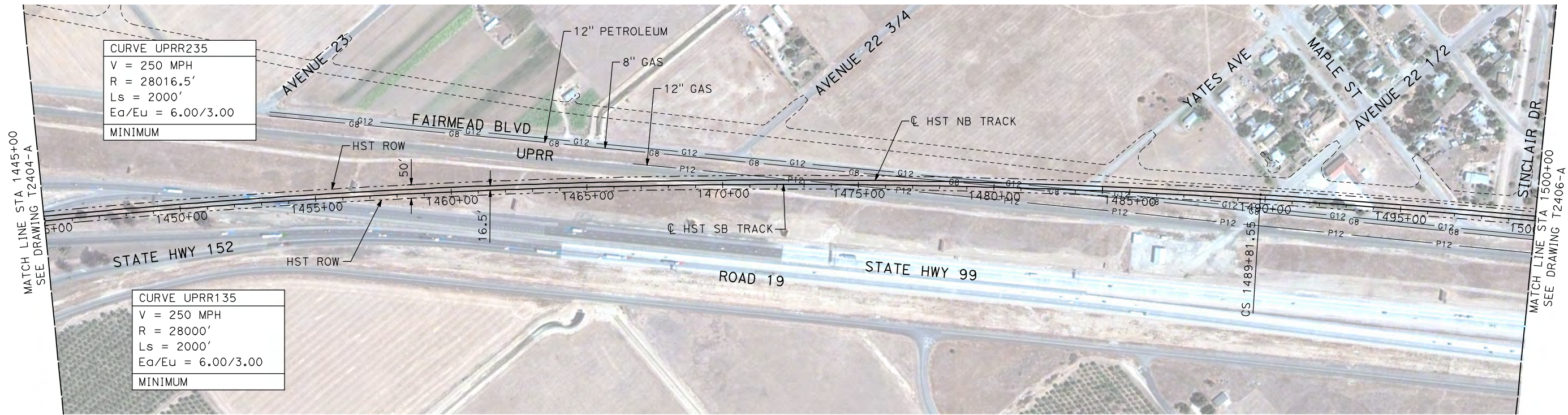
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1390+00 TO STA 1445+00

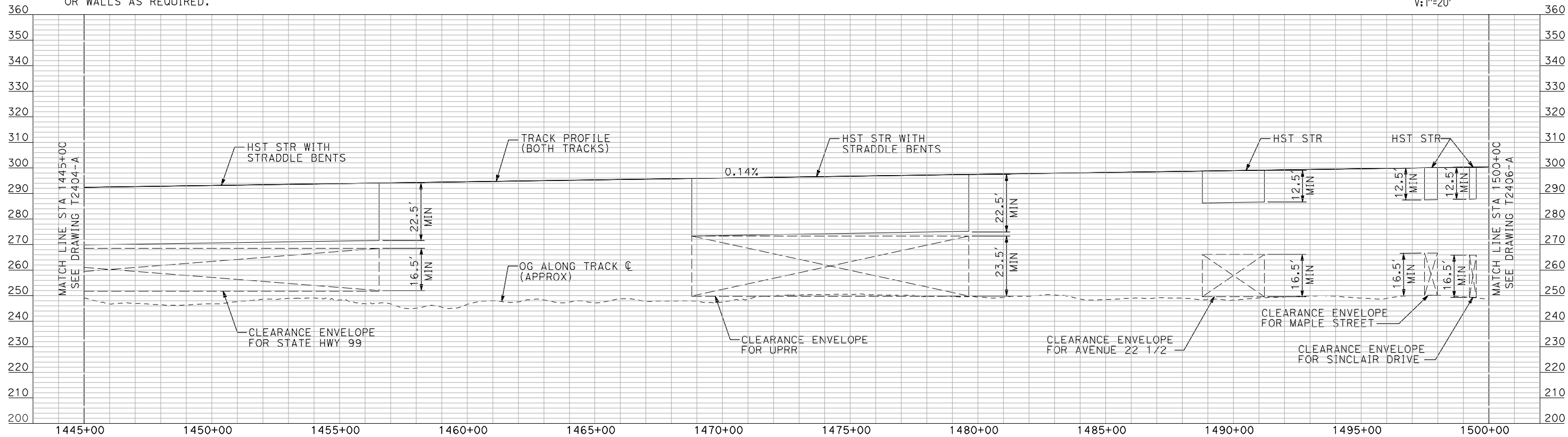
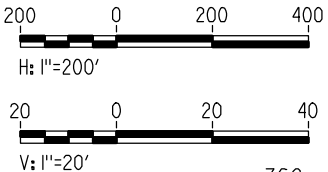
CONTRACT NO. HSR06-007
DRAWING NO. T2404-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

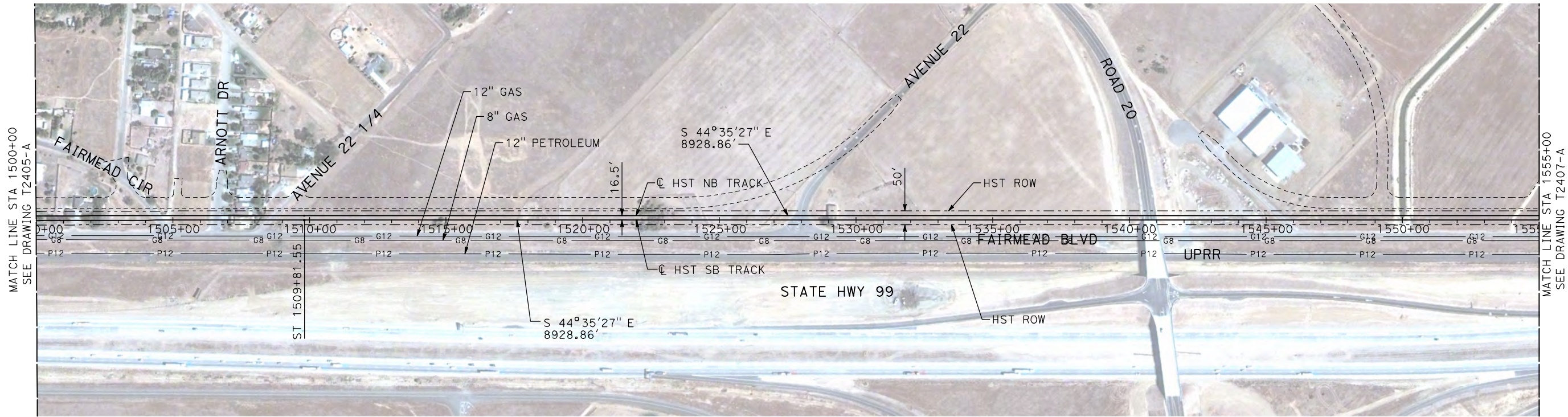
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1445+00 TO STA 1500+00

CONTRACT NO. HSR06-007
DRAWING NO. T2405-A
SCALE AS SHOWN
SHEET NO. ### OF ###

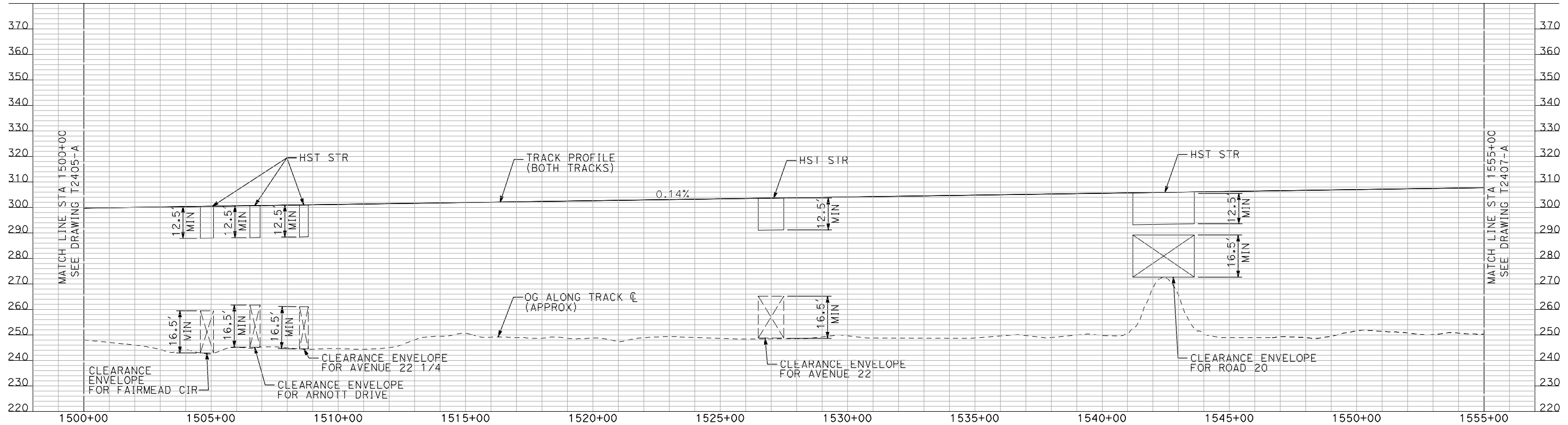
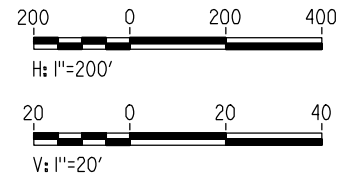
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NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

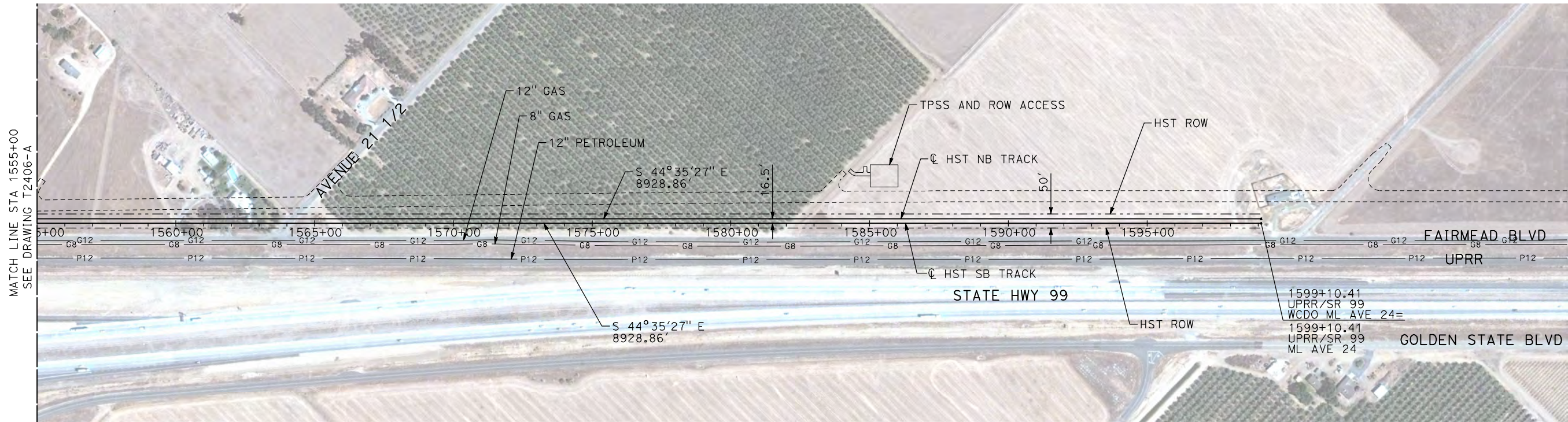
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1500+00 TO STA 1555+00

CONTRACT NO. HSR06-007
DRAWING NO. T2406-A
SCALE AS SHOWN
SHEET NO. ### OF ###

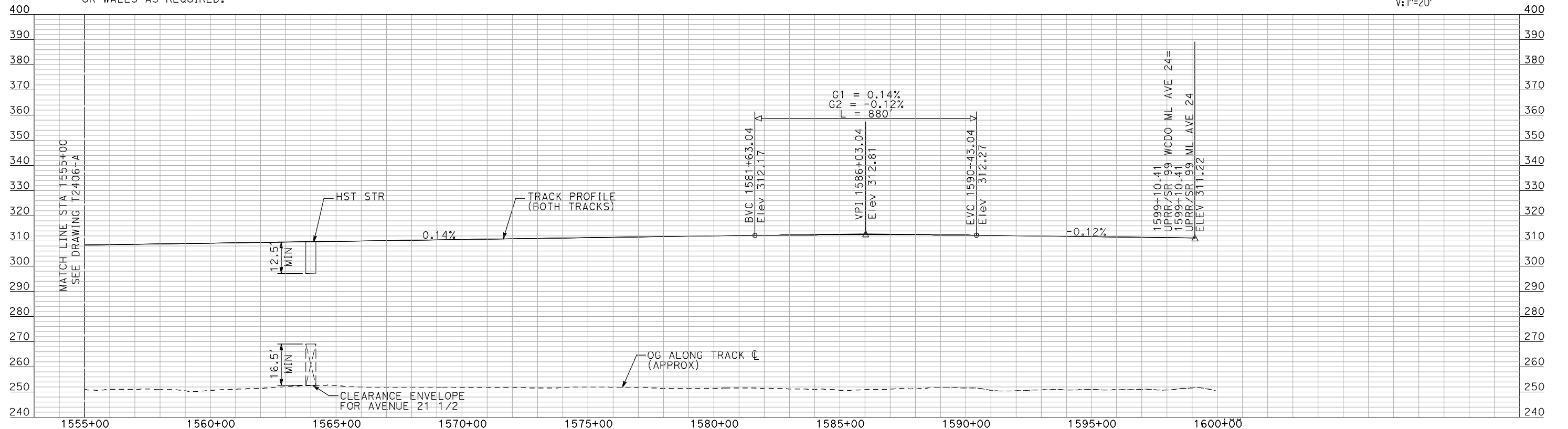
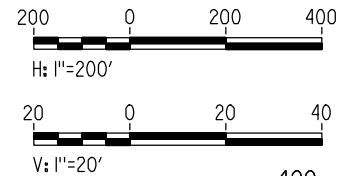
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

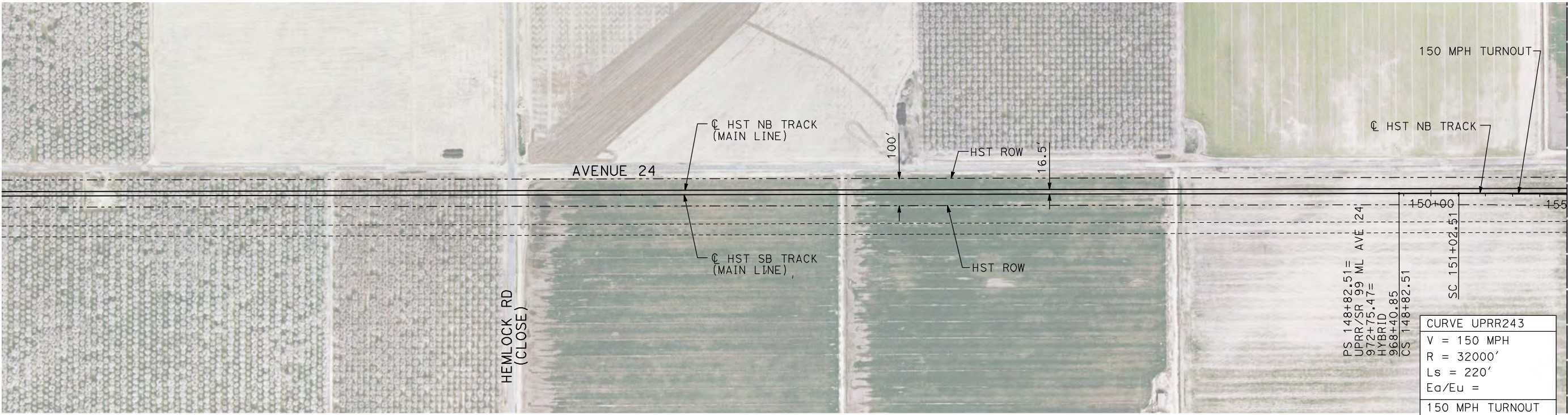


PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

HSR06-007						DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	 Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811 	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO		CONTRACT NO. HSR06-007
						DRAWN BY H. SULLIVAN				UPRR/SR 99 WCDO - MAIN LINE AVENUE 24		DRAWING NO. T2407-A
						CHECKED BY A. BOONE				PLAN AND PROFILE STA 1555+00 TO STA 1599+10.41		SCALE AS SHOWN
						IN CHARGE A. BOONE						SHEET NO. ### OF ###
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 07/20/2011						

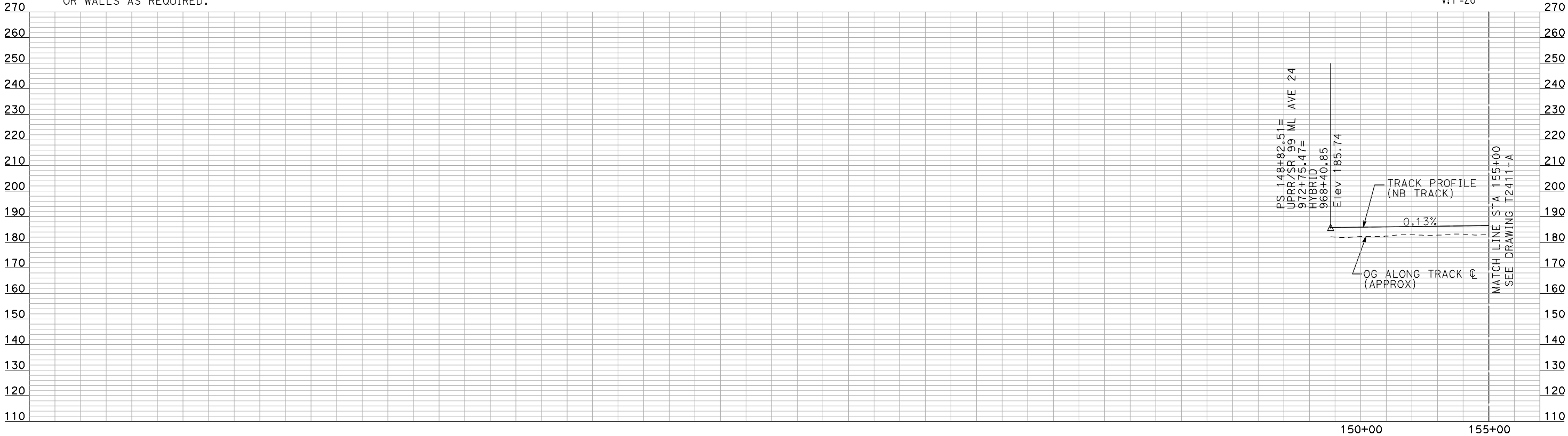
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

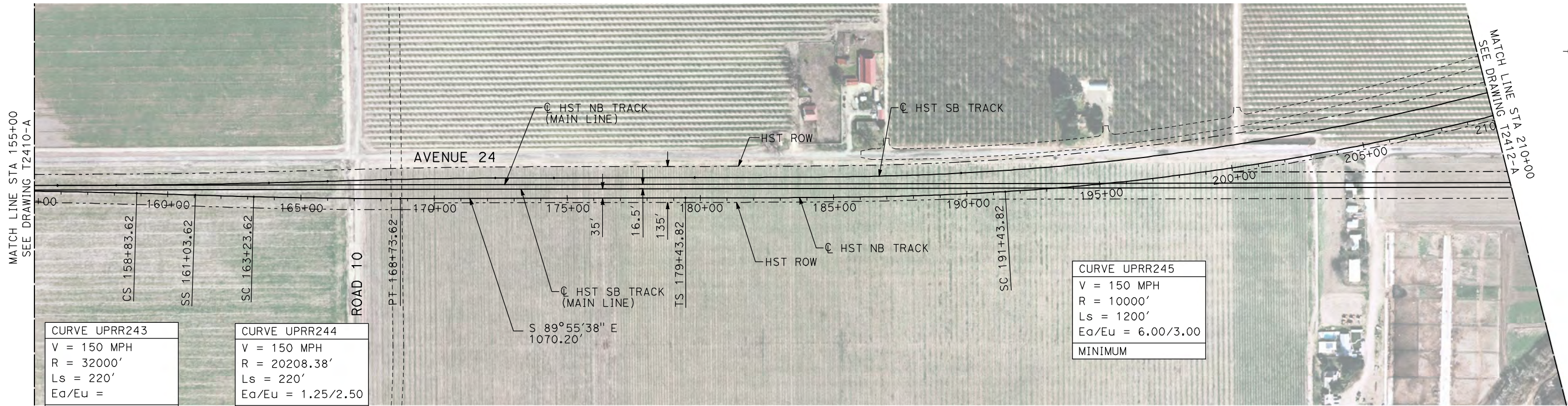


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 148+82.51 TO STA 155+00

CONTRACT NO. HSR06-007
DRAWING NO. T2410-A
SCALE AS SHOWN
SHEET NO. ### OF ###

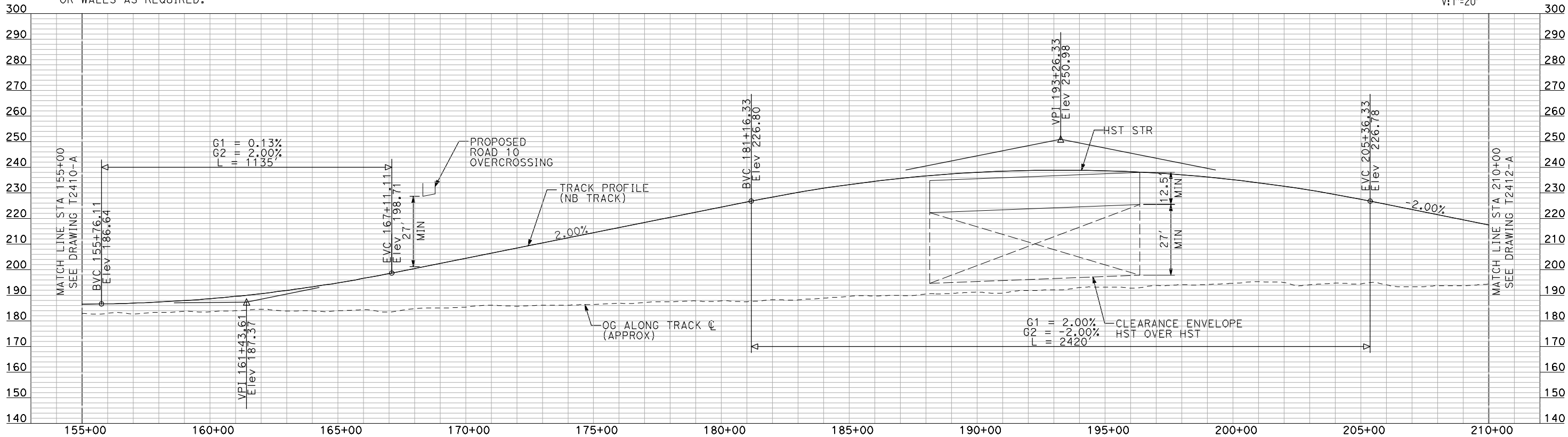
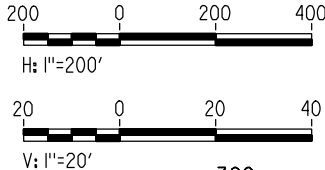
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NOTES:

- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

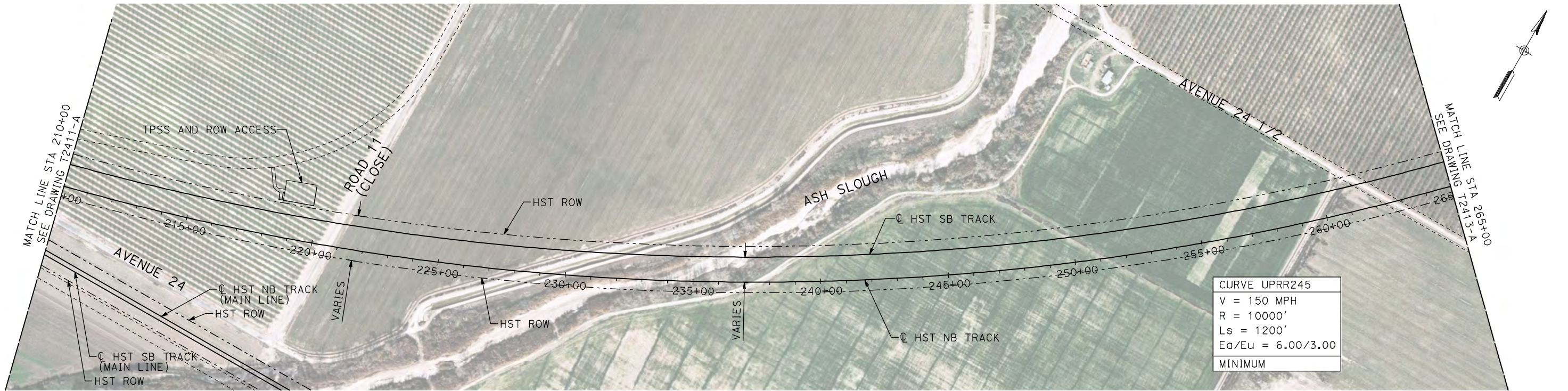
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 155+00 TO STA 210+00

CONTRACT NO. HSR06-007
DRAWING NO. T2411-A
SCALE AS SHOWN
SHEET NO. ### OF ###

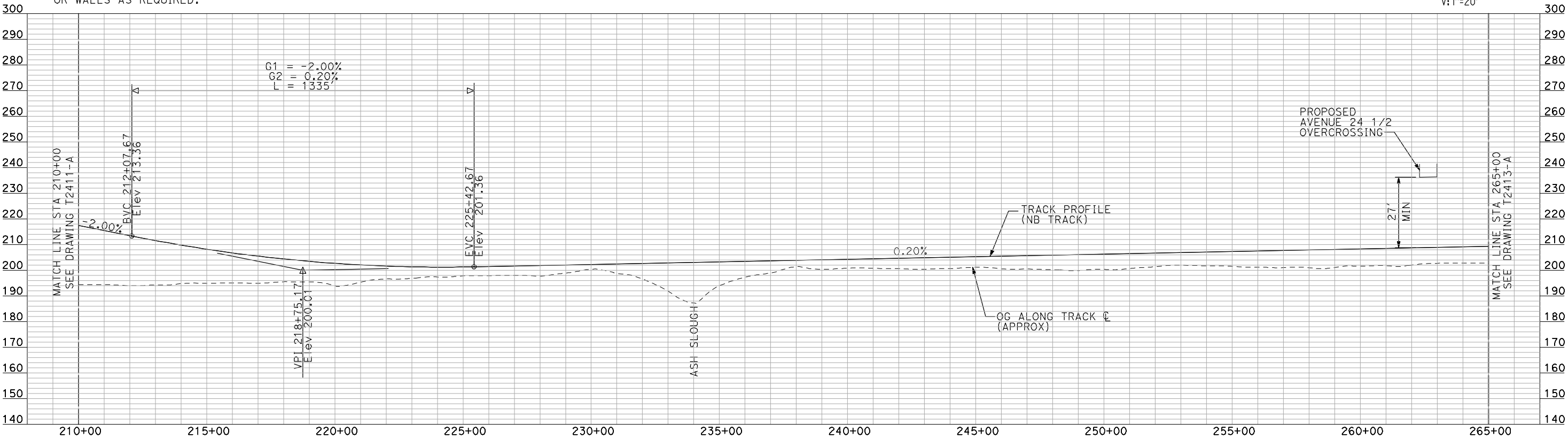
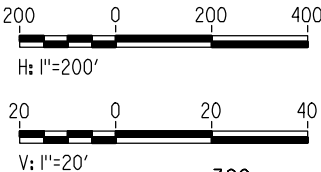
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NOTES:

- 1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

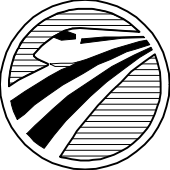
DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET 15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION



Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811





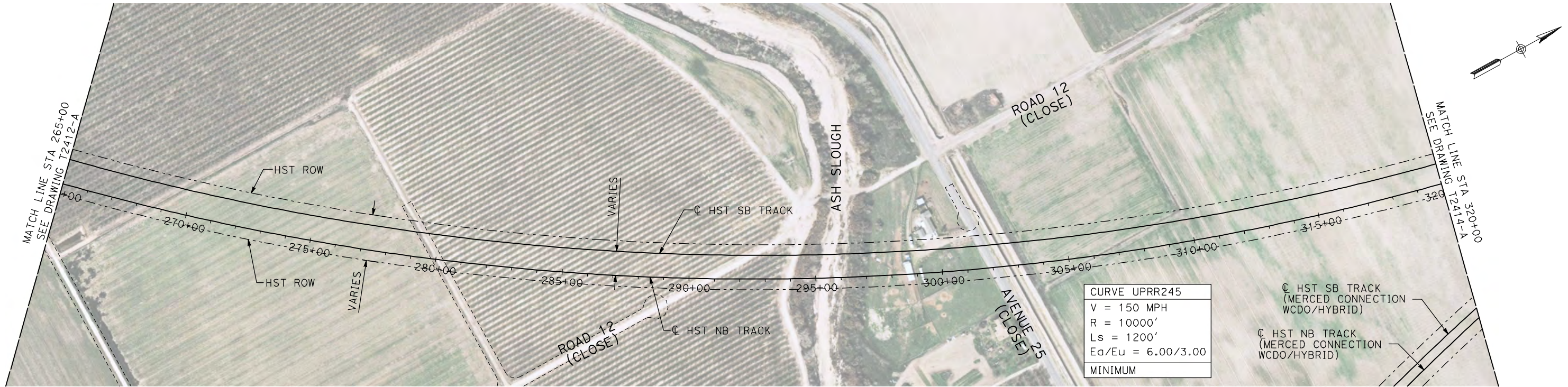
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 210+00 TO STA 265+00

CONTRACT NO. HSR06-007
DRAWING NO. T2412-A
SCALE AS SHOWN
SHEET NO. ### OF ###

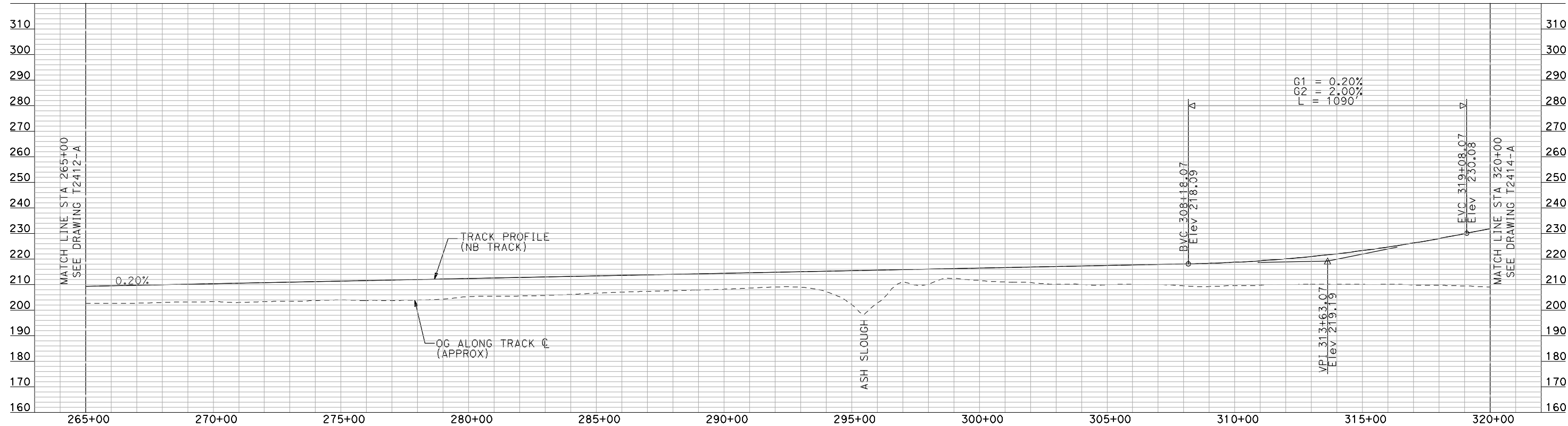
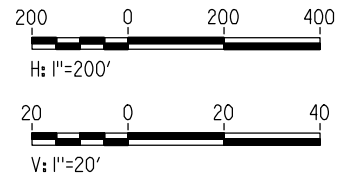
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

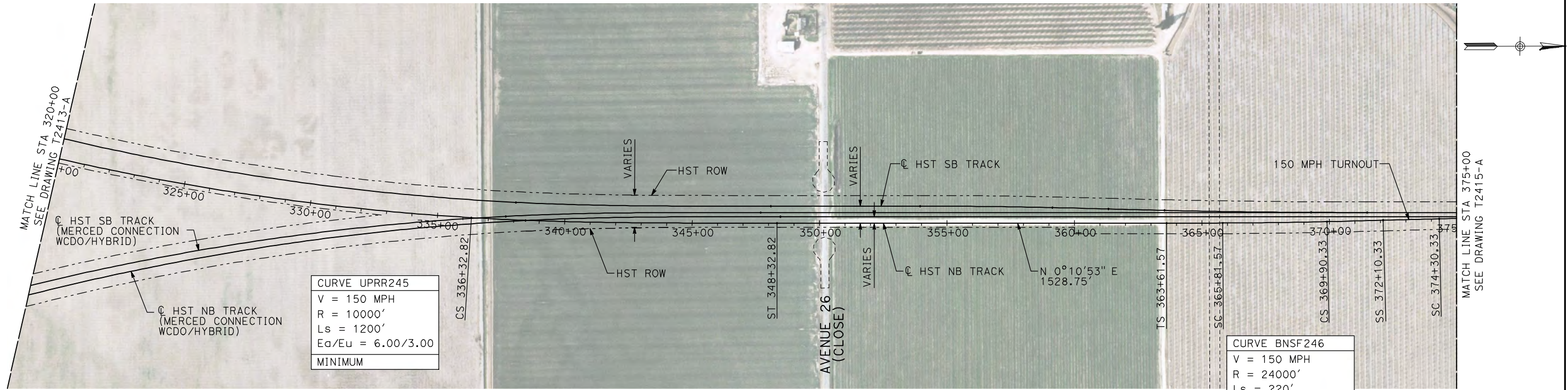
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCD0/HYBRID WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 265+00 TO STA 320+00

CONTRACT NO. HSR06-007
DRAWING NO. T2413-A
SCALE AS SHOWN
SHEET NO. ### OF ###

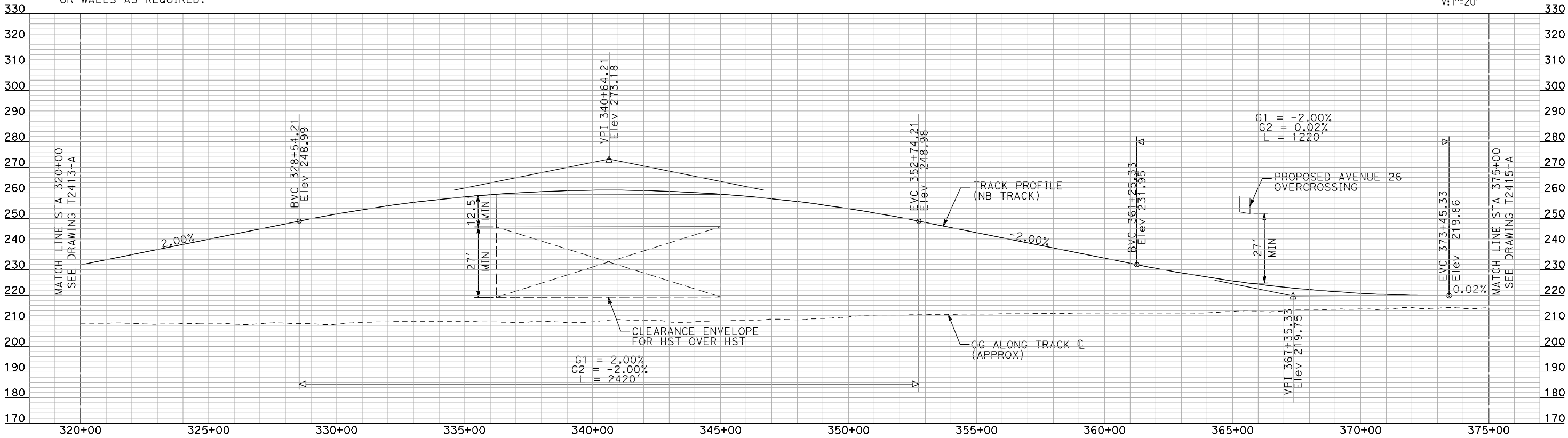
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WCD0/HYBRID WYE - NB CONNECTION
AVENUE 24

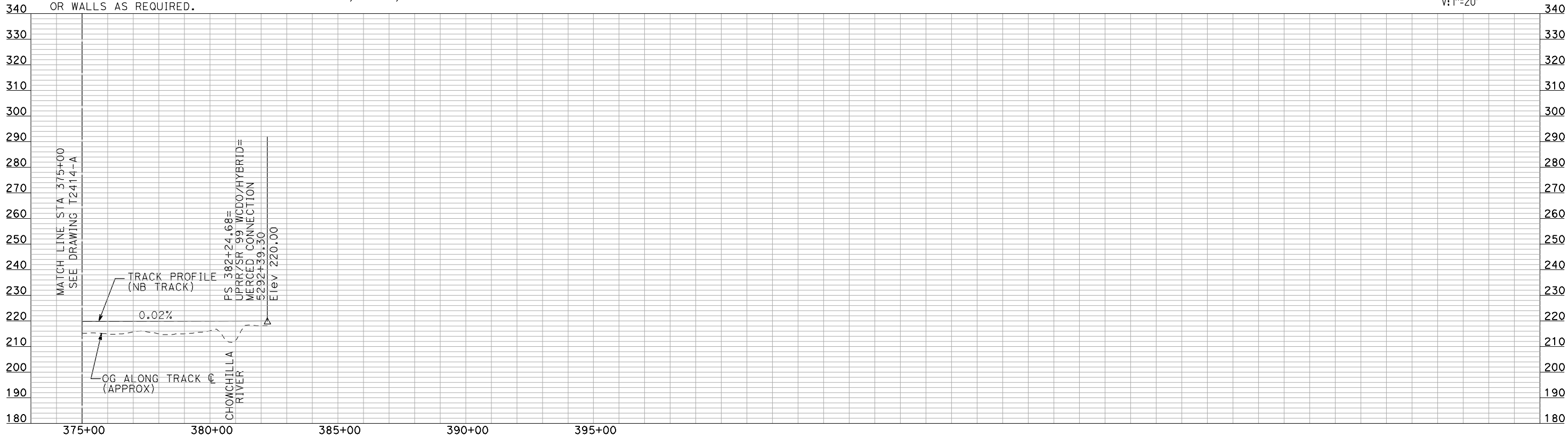
PLAN AND PROFILE
STA 320+00 TO STA 375+00

CONTRACT NO. HSR06-007
DRAWING NO. T2414-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

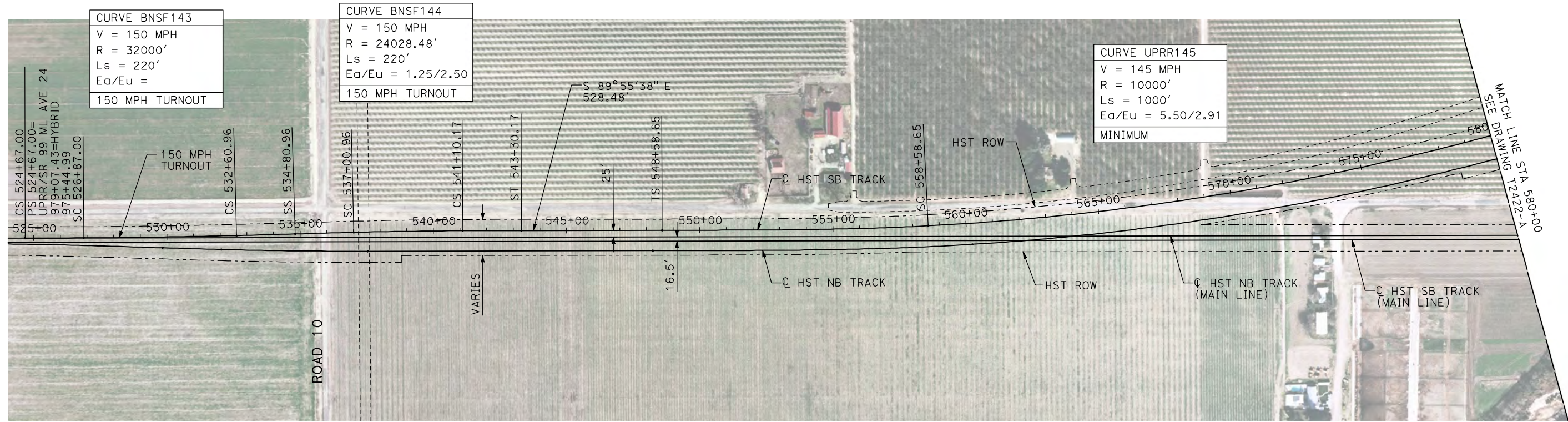
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID WYE- NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 375+00 TO STA 382+24.68

CONTRACT NO. HSR06-007
DRAWING NO. T2415-A
SCALE AS SHOWN
SHEET NO. ### OF ###

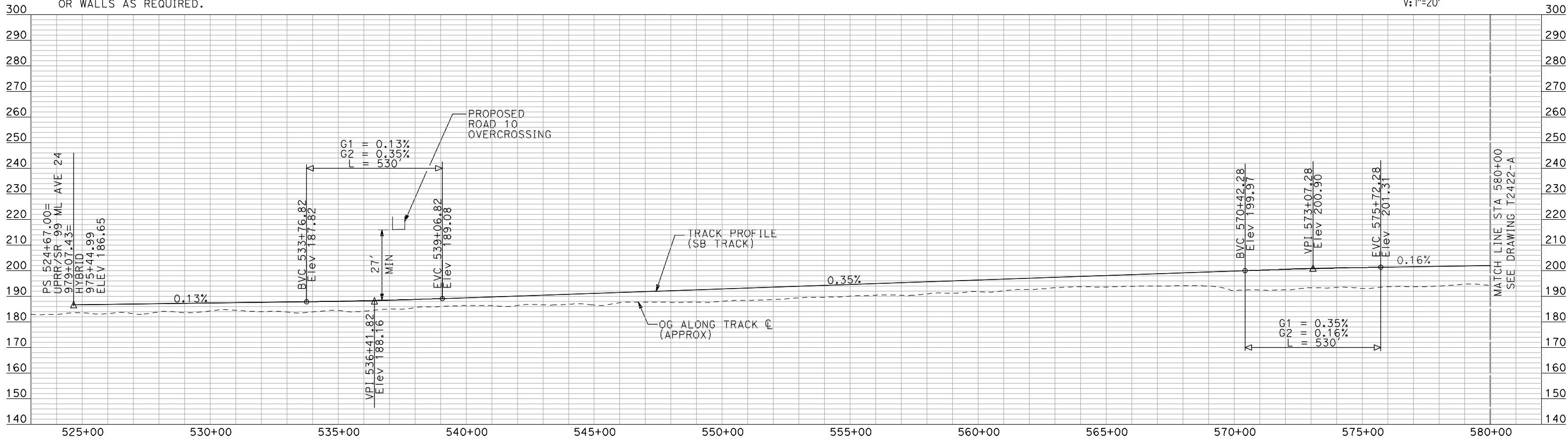
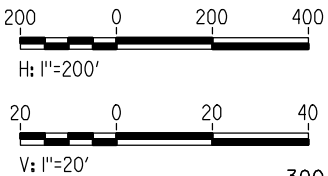
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

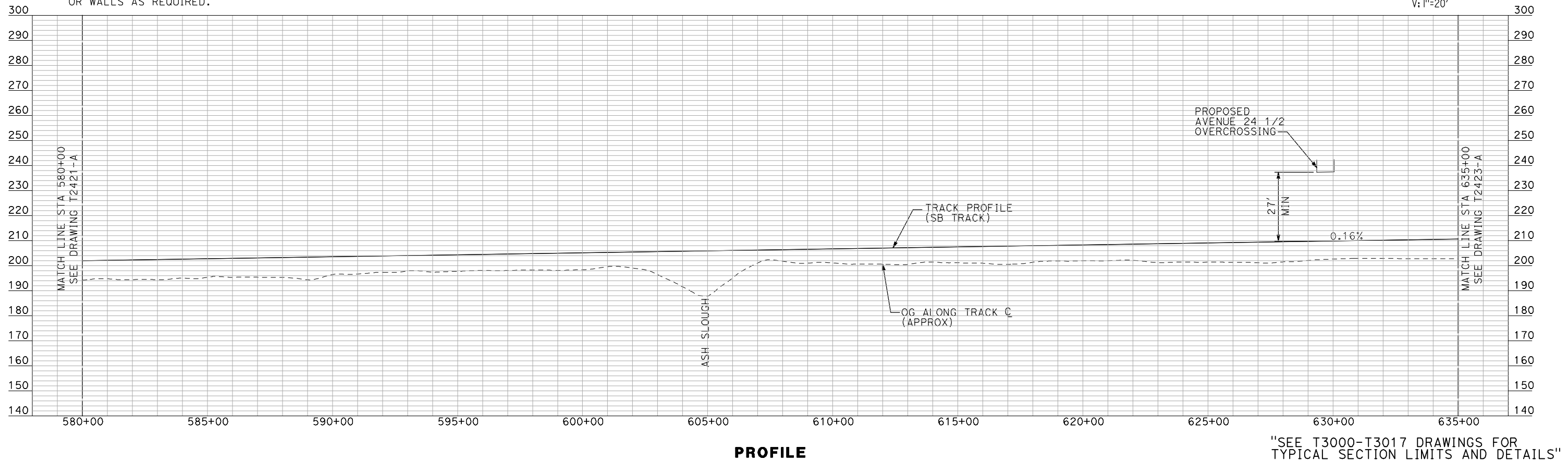
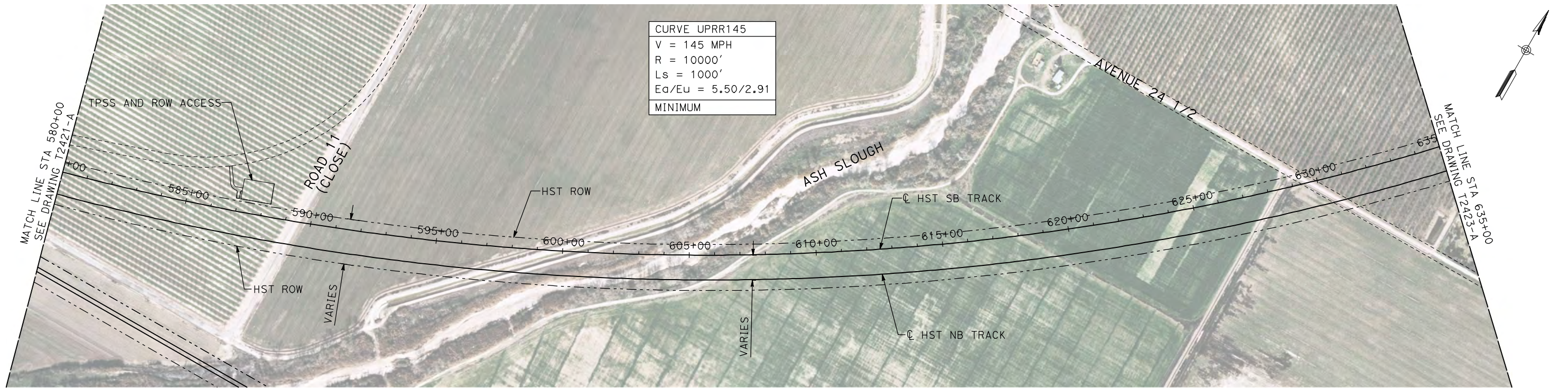
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 524+67 TO STA 580+00

CONTRACT NO. HSR06-007
DRAWING NO. T2421-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

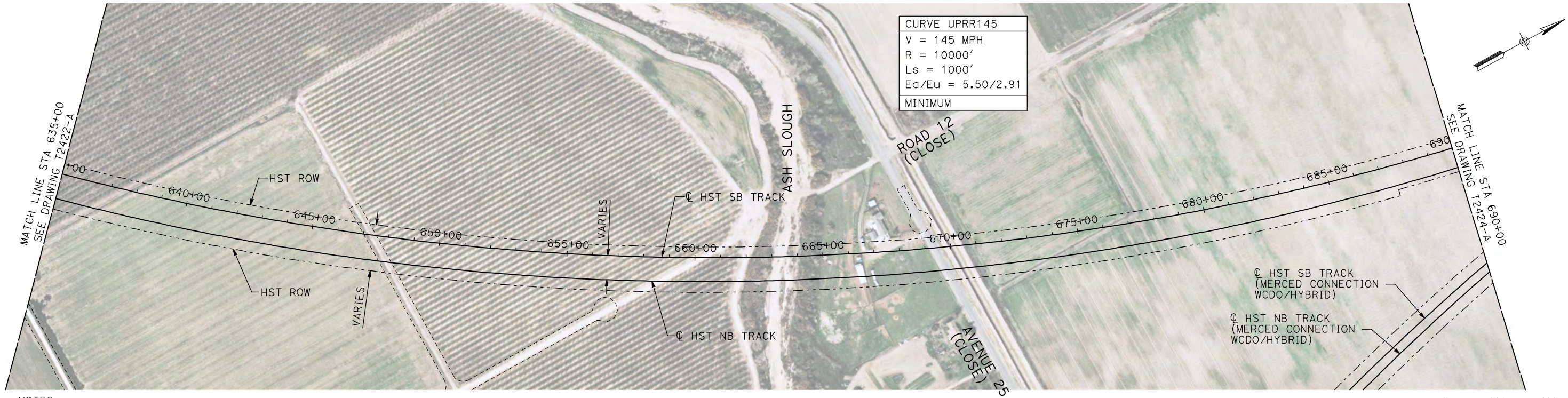
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 580+00 TO STA 635+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2422-A
SCALE
AS SHOWN
SHEET NO.
OF

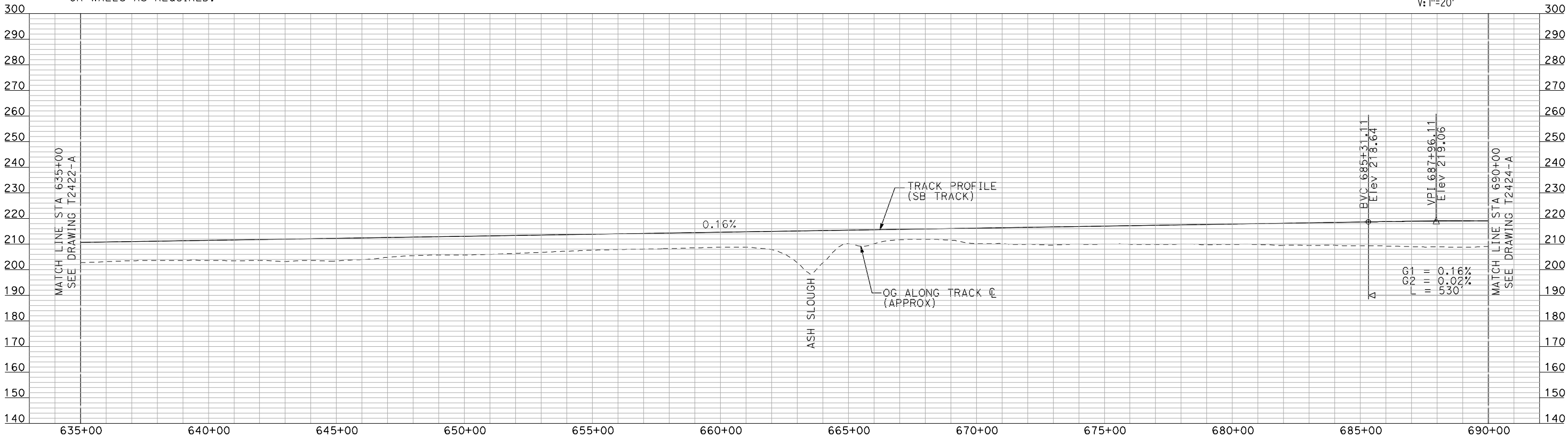
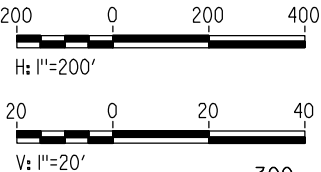
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NOTES:

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- TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

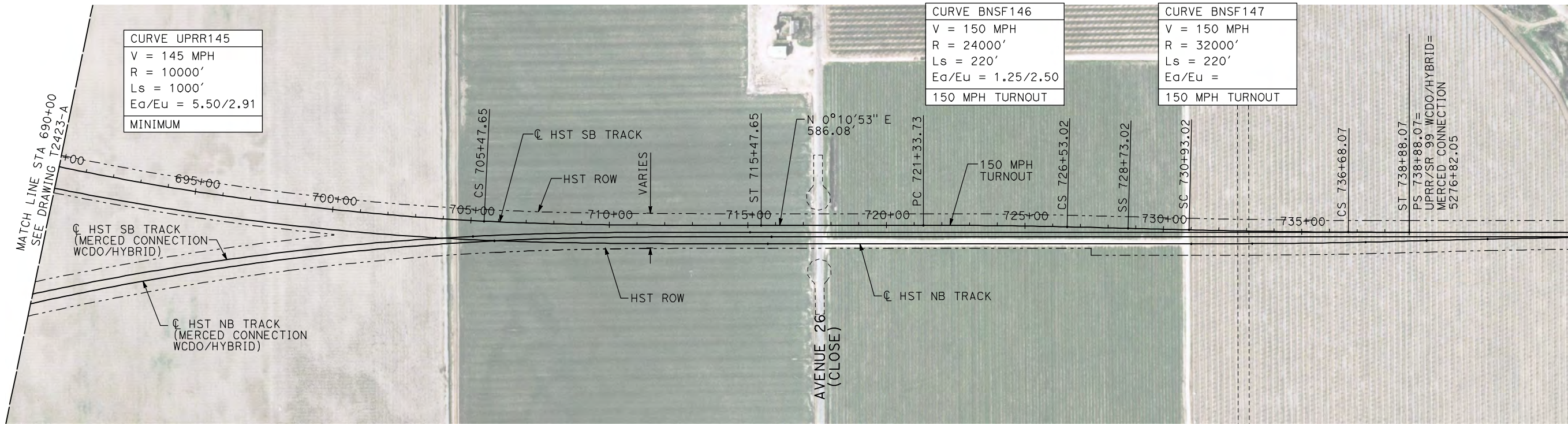


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCD0/HYBRID WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 635+00 TO STA 690+00

CONTRACT NO. HSR06-007
DRAWING NO. T2423-A
SCALE AS SHOWN
SHEET NO. ### OF ###

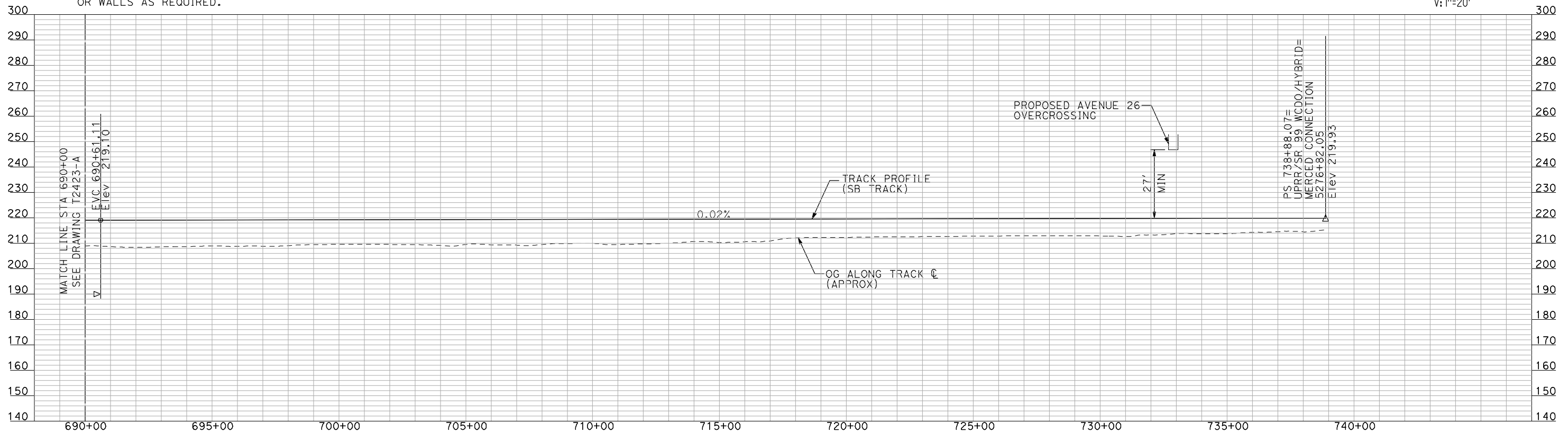
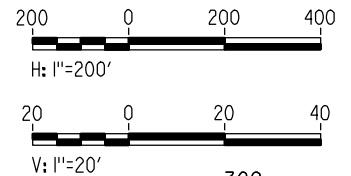
7/20/2011 4:07:42 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\UPRR AVE 24\MF-T-2424-A.dgn machadoe



NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCD/HSR WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 690+00 TO STA 738+88.07

CONTRACT NO. HSR06-007
DRAWING NO. T2424-A
SCALE AS SHOWN
SHEET NO. ### OF ###