

Fresno to Bakersfield

COORDINATION SET
LOCALLY GENERATED ALTERNATIVE (LGA)

General Plans
January 2021



The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

Projects\701206.00_CHSRBP\00_CADD\Working Files\Jim_Meredith\Coordination-Indexes\Coordination_sets\FB_LGA\FBSSA-INDEX-1

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andrew.carson@tylin.com 4/7/2021

GENERAL, TRACK GUIDEWAY

SHEET NO.	DRAWING NO.	DRAWING DESCRIPTION
1		COVER SHEET - COORDINATION SET GENERAL
2	GE-B0001	INDEX OF DRAWINGS - SHEET 1 OF 3
3	GE-B0002	INDEX OF DRAWINGS - SHEET 2 OF 3
4	GE-B0003	INDEX OF DRAWINGS - SHEET 3 OF 3
5		COVER SHEET - TRACK GUIDEWAY
6	TT-B0001	INDEX OF DRAWINGS
7	TT-B0002	GENERAL NOTES
8	TT-B0003	ABBREVIATIONS AND SYMBOLS SHEET 1
9	TT-B0004	ABBREVIATIONS AND SYMBOLS SHEET 2
10	TT-B0005	TRACK GUIDEWAY - KEY MAP SHEET 1
11	TT-B0006	TRACK GUIDEWAY - KEY MAP SHEET 2
12	TT-B0007	TRACK GUIDEWAY - HORIZONTAL ALIGNMENT DATA TABLE
13	TT-B0013	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 6
14	TT-B0014	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 7
15	TT-B0015	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 8
16	TT-B0016	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 9
17	TT-B0017	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 10
18	TT-B0018	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 11
19	TT-B0019	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 12
20	TT-B0020	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 13
21	TT-B0021	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 14
22	TT-D1035	TRACK GUIDEWAY - STA 6814+00 TO 6828+00 - PLAN AND PROFILE
23	TT-D1036	TRACK GUIDEWAY - STA 6828+00 TO 6842+00 - PLAN AND PROFILE
24	TT-D1037	TRACK GUIDEWAY - STA 6842+00 TO 6856+00 - PLAN AND PROFILE
25	TT-D1038	TRACK GUIDEWAY - STA 6856+00 TO 6870+00 - PLAN AND PROFILE
26	TT-D1039	TRACK GUIDEWAY - STA 6870+00 TO 6884+00 - PLAN AND PROFILE
27	TT-D1040	TRACK GUIDEWAY - STA 6884+00 TO 6912+00 - PLAN AND PROFILE
28	TT-D1041	TRACK GUIDEWAY - STA 6912+00 TO 6940+00 - PLAN AND PROFILE
29	TT-D1042	TRACK GUIDEWAY - STA 6940+00 TO 6968+00 - PLAN AND PROFILE
30	TT-D1043	TRACK GUIDEWAY - STA 6968+00 TO 6996+00 - PLAN AND PROFILE
31	TT-D1044	TRACK GUIDEWAY - STA 6996+00 TO 7024+00 - PLAN AND PROFILE
32	TT-D1045	TRACK GUIDEWAY - STA 7024+00 TO 7052+00 - PLAN AND PROFILE
33	TT-D1046	TRACK GUIDEWAY - STA 7052+00 TO 7080+00 - PLAN AND PROFILE
34	TT-D1047	TRACK GUIDEWAY - STA 7080+00 TO 7101+04 - PLAN AND PROFILE
35	TT-D1048	TRACK GUIDEWAY - STATION TRACKS - STA 0+00 TO 26+00 - PLAN AND PROFILE
36	TT-D1049	TRACK GUIDEWAY - STATION TRACKS - STA 26+00 TO 48+92 - PLAN AND PROFILE
37	TT-D1050	TRACK GUIDEWAY - STATION NB STORAGE TRACK - STA 0+00 TO 19+76 - PLAN AND PROFILE
38	TT-D1051	TRACK GUIDEWAY - STATION SB STORAGE TRACK - STA 0+00 TO 19+71 - PLAN AND PROFILE

ROADWAY, GRADE SEPARATION

SHEET NO.	DRAWING NO.	DRAWING DESCRIPTION
39		COVER SHEET - ROADWAY
40	CV-B0001	ROADWAY/GRADE SEPARATION - INDEX OF SHEETS
41	CV-B0002	ROADWAY/GRADE SEPARATION - INDEX OF SHEETS
42	CV-B0003	ROADWAY/GRADE SEPARATION - INDEX OF SHEETS
43	CV-B0004	GENERAL - ABBREVIATIONS AND SYMBOLS
44	CV-B0005	GENERAL - ABBREVIATIONS AND SYMBOLS
45	CV-B0006	ROADWAY/GRADE SEPARATION - KEY MAP SHEET 1
46	CV-B0007	ROADWAY/GRADE SEPARATION - KEY MAP SHEET 2
47	CV-B0025	ROADWAY/GRADE SEPARATION - TYPICAL SECTIONS
48	CV-B0035	ROADWAY/GRADE SEPARATION - TYPICAL SECTIONS
49	CV-B0036	ROADWAY/GRADE SEPARATION - TYPICAL SECTIONS
50	CV-B0037	ROADWAY/GRADE SEPARATION - TYPICAL SECTIONS
51	CV-B0038	ROADWAY/GRADE SEPARATION - TYPICAL SECTIONS
52	CV-B0039	ROADWAY/GRADE SEPARATION - TYPICAL SECTIONS
53	CV-B0040	ROADWAY/GRADE SEPARATION - TYPICAL SECTIONS
54	CV-R1018	ROADWAY LAYOUT - SUMNER STREET
55	CV-R1019	ROADWAY LAYOUT - SUMNER STREET
56	CV-R1020	ROADWAY PROFILE - SUMNER STREET
57	CV-R1021	ROADWAY PROFILE - SUMNER STREET
58	CV-R1022	ROADWAY PROFILE - SUMNER STREET
59	CV-R1023	ROADWAY PROFILE - SUMNER STREET
60	CV-R1024	ROADWAY LAYOUT - EDISON HIGHWAY
61	CV-R1025	ROADWAY LAYOUT - EDISON HIGHWAY
62	CV-R1026	ROADWAY LAYOUT - EDISON HIGHWAY
63	CV-R1027	ROADWAY PROFILE - EDISON HIGHWAY
64	CV-R1028	ROADWAY PROFILE - EDISON HIGHWAY
65	CV-R1029	ROADWAY PROFILE - EDISON HIGHWAY
66	CV-T1041	GRADE SEPARATION LAYOUT - STATION ROADWAY
67	CV-T1042	GRADE SEPARATION LAYOUT - STATION ROADWAY
68	CV-T1043	GRADE SEPARATION PROFILE - STATION ROADWAY
69	CV-T1044	GRADE SEPARATION PROFILE - STATION ROADWAY
70	CV-T1045	GRADE SEPARATION PROFILE - STATION ROADWAY
71	CV-T1046	GRADE SEPARATION PROFILE - 32ND STREET
72	CV-T1049	GRADE SEPARATION PROFILE - GOLDEN STATE AVENUE SOUTH FRONTAGE
73	CV-T1050	GRADE SEPARATION LAYOUT - 34TH STREET
74	CV-T1051	GRADE SEPARATION PROFILE - 34TH STREET
75	CV-T1052	GRADE SEPARATION PROFILE - CHESTER AVENUE
76	CV-T1053	GRADE SEPARATION PROFILE - K STREET

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. BAKER

DRAWN BY
J. MEREDITH

CHECKED BY
S. LANDOLT

IN CHARGE
G. CAMPBELL

DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 GENERAL
 INDEX OF DRAWINGS
 SHEET 1 OF 3

CONTRACT NO.
HSR13-44

DRAWING NO.
GE-B0001

SCALE
NO SCALE

SHEET NO.
2

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 andrew.carson@tylin.com 4/7/2021

ROADWAY STRUCTURES, ELEVATED STRUCTURES

SHEET NO.	DRAWING NO.	DRAWING DESCRIPTION
77	CV-T7012	TRACK STRUCTURES/ROADWAY - DRAFT GENERAL PLAN - CHESTER AVE UC
78	CV-T7013	TRACK STRUCTURES/ROADWAY - DRAFT SECTIONS - CHESTER AVE UC
79	CV-T7018	TRACK STRUCTURES/ROADWAY - DRAFT GENERAL PLAN - 34TH STREET
80		COVER SHEET - ELEVATED STRUCTURES
81	ST-B0001	INDEX OF DRAWINGS
82	ST-B0002	GENERAL NOTES AND LEGEND
83	ST-B0003	KEY MAP - SHEET 1 OF 3
84	ST-B0004	KEY MAP - SHEET 2 OF 3
85	ST-B0005	KEY MAP - SHEET 3 OF 3
86	ST-B0006	TYPICAL - SECTION SHEET 1 OF 9
87	ST-B0007	TYPICAL - SECTION SHEET 2 OF 9
88	ST-B0008	TYPICAL - SECTION SHEET 3 OF 9
89	ST-B0009	TYPICAL - SECTION SHEET 4 OF 9
90	ST-B0010	TYPICAL - SECTION SHEET 5 OF 9
91	ST-B0011	TYPICAL - SECTION SHEET 6 OF 9
92	ST-B0012	TYPICAL - SECTION SHEET 7 OF 9
93	ST-B0013	BAKERSFIELD HST VIADUCT - STATION 6842+00 TO 6852+00 - PLAN AND ELEVATION
94	ST-B0014	TYPICAL - SECTION SHEET 9 OF 9
95	ST-J1027	BAKERSFIELD HST VIADUCT - STATION 6822+00 TO 6832+00 - PLAN AND ELEVATION
96	ST-J1028	BAKERSFIELD HST VIADUCT - STATION 6832+00 TO 6842+00 - PLAN AND ELEVATION
97	ST-J1029	BAKERSFIELD HST VIADUCT - STATION 6842+00 TO 6852+00 - PLAN AND ELEVATION
98	ST-J1030	BAKERSFIELD HST VIADUCT - STATION 6852+00 TO 6862+00 - PLAN AND ELEVATION
99	ST-J1031	BAKERSFIELD HST VIADUCT - STATION 6862+00 TO 6872+00 - PLAN AND ELEVATION
100	ST-J1032	BAKERSFIELD HST VIADUCT - STATION 6872+00 TO 6882+00 - PLAN AND ELEVATION
101	ST-J1033	BAKERSFIELD HST VIADUCT - STATION 6882+00 TO 6892+00 - PLAN AND ELEVATION
102	ST-J1034	BAKERSFIELD HST VIADUCT - STATION 6892+00 TO 6902+00 - PLAN AND ELEVATION
103	ST-J1035	BAKERSFIELD HST VIADUCT - STATION 6902+00 TO 6912+00 - PLAN AND ELEVATION
104	ST-J1036	BAKERSFIELD HST VIADUCT - STATION 6912+00 TO 6922+00 - PLAN AND ELEVATION
105	ST-J1037	BAKERSFIELD HST VIADUCT - STATION 6922+00 TO 6932+00 - PLAN AND ELEVATION
106	ST-J1038	BAKERSFIELD HST VIADUCT - STATION 6932+00 TO 6942+00 - PLAN AND ELEVATION
107	ST-J1039	BAKERSFIELD HST VIADUCT - STATION 6942+00 TO 6952+00 - PLAN AND ELEVATION
108	ST-J1040	BAKERSFIELD HST VIADUCT - STATION 6952+00 TO 6962+00 - PLAN AND ELEVATION
109	ST-J1041	BAKERSFIELD HST VIADUCT - STATION 6962+00 TO 6972+00 - PLAN AND ELEVATION
110	ST-J1042	BAKERSFIELD HST VIADUCT - STATION 6972+00 TO 6982+00 - PLAN AND ELEVATION
111	ST-J1043	BAKERSFIELD HST VIADUCT - STATION 6982+00 TO 6992+00 - PLAN AND ELEVATION

ELEVATED STRUCTURES, STATION PLANS, SYSTEMS

SHEET NO.	DRAWING NO.	DRAWING DESCRIPTION
112	ST-J1044	BAKERSFIELD HST VIADUCT - STATION 6992+00 TO 7002+00 - PLAN AND ELEVATION
113	ST-J1045	BAKERSFIELD HST VIADUCT - STATION 7002+00 TO 7012+00 - PLAN AND ELEVATION
114	ST-J1046	BAKERSFIELD HST VIADUCT - STATION 7012+00 TO 7022+00 - PLAN AND ELEVATION
115	ST-J1047	BAKERSFIELD HST VIADUCT - STATION 7022+00 TO 7032+00 - PLAN AND ELEVATION
116	ST-J1048	BAKERSFIELD HST VIADUCT - STATION 7032+00 TO 7042+00 - PLAN AND ELEVATION
117	ST-J1049	BAKERSFIELD HST VIADUCT - STATION 7042+00 TO 7052+00 - PLAN AND ELEVATION
118	ST-J1050	BAKERSFIELD HST VIADUCT - STATION 7052+00 TO 7062+00 - PLAN AND ELEVATION
119	ST-J1051	BAKERSFIELD HST VIADUCT - STATION 7062+00 TO 7072+00 - PLAN AND ELEVATION
120	ST-J1052	BAKERSFIELD HST VIADUCT - STATION 7072+00 TO 7082+00 - PLAN AND ELEVATION
121	ST-J1053	BAKERSFIELD HST VIADUCT - STATION 7082+00 TO 7092+00 - PLAN AND ELEVATION
122	ST-J1054	BAKERSFIELD HST VIADUCT - STATION 7092+00 TO 7102+00 - PLAN AND ELEVATION
123		COVER SHEET - STATION PLANS
124	G00-01	BAKERSFIELD F STREET STATION - INDEX OF DRAWINGS
125	A0001	BAKERSFIELD F STREET STATION - ARCHITECTURAL ABBREVIATIONS SYMBOLS AND GENERAL NOTES
126	A1801	BAKERSFIELD F STREET STATION - SITE CONTEXT ROOF PLAN
127	A1802	BAKERSFIELD F STREET STATION - STATION SITE PLAN
128	A1810	BAKERSFIELD F STREET STATION - PLAZA AND TRANSIT CENTER KEY PLAN
129	A1811	BAKERSFIELD F STREET STATION - CONCOURSE KEY PLAN
130	A1812	BAKERSFIELD F STREET STATION - MEZZANINE KEY PLAN
131	A1813	BAKERSFIELD F STREET STATION - PLATFORM LEVEL KEY PLAN
132	A1814	BAKERSFIELD F STREET STATION - CONCOURSE FLOOR PLAN-MAIN ENTRANCE
133	A1815	BAKERSFIELD F STREET STATION - MEZZANINE FLOOR PLAN-MAIN ENTRANCE
134	A1816	BAKERSFIELD F STREET STATION - PLATFORM FLOOR PLAN-MAIN ENTRANCE
135	A1817	BAKERSFIELD F STREET STATION - CONCOURSE FLOOR PLAN-SECONDARY ENTRANCE
136	A1818	BAKERSFIELD F STREET STATION - MEZZANINE FLOOR PLAN-SECONDARY ENTRANCE
137	A3801	BAKERSFIELD F STREET STATION - LONGITUDINAL SECTION
138	A3802	BAKERSFIELD F STREET STATION - BUILDING SECTION & ELEVATION
139	A6801	BAKERSFIELD F STREET STATION - ROOM SCHEDULE
140	A9801	BAKERSFIELD F STREET STATION - AXONOMETRIC VIEW
141	A9802	BAKERSFIELD F STREET STATION - PRESPECTIVE VIEWS
142	A9803	BAKERSFIELD F STREET STATION - AERIAL VIEW
143		COVER SHEET - TRACTION POWER AND TRAIN CONTROL PLANS
144	TP-B0001	TRACTION POWER, COMMUNICATIONS SYSTEM, AND AUTOMATIC TRAIN CONTROL SITE PLANS - INDEX OF DRAWINGS
145	TP-B0002	TRACTION POWER, COMMUNICATIONS SYSTEM, AND AUTOMATIC TRAIN CONTROL SITE PLANS - KEY MAP
146	TP-B0003	TRACTION POWER, COMMUNICATIONS SYSTEM, AND AUTOMATIC TRAIN CONTROL SITE PLANS - KEY MAP
147	TP-C6001	SYSTEMS FACILITIES SCHEMATIC PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. BAKER
 DRAWN BY
J. MEREDITH
 CHECKED BY
S. LANDOLT
 IN CHARGE
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 DATE
01/29/2021

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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 GENERAL
 INDEX OF DRAWINGS
 SHEET 2 OF 3

CONTRACT NO.
HSR13-44
 DRAWING NO.
GE-B0002
 SCALE
NO SCALE
 SHEET NO.
3

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 andrew.carson@tylin.com 4/7/2021

RAILWAY SYSTEMS, UTILITIES

SHEET NO.	DRAWING NO.	DRAWING DESCRIPTION
148	TP-04005-A	TRACTION POWER SITE PLAN - SUBSTATION A - OPTIONS 1 AND 2
149	TP-04005-B	TRACTION POWER SITE PLAN - SUBSTATION A - HIGH VOLTAGE UTILITY SWITCHING STATION
150	TC-F5005-B	AUTOMATIC TRAIN CONTROL SITE PLAN - INTERLOCKING SITES AT 6824+25 AND 6824+75
151	TC-F4006-A	AUTOMATIC TRAIN CONTROL SITE PLAN - INTERLOCKING SITE AT 6848+00
152	TC-F4006-B	AUTOMATIC TRAIN CONTROL SITE PLAN - INTERLOCKING SITES AT 6865+00, 6867+00, AND 6876+00
153	TC-F4007	AUTOMATIC TRAIN CONTROL SITE PLAN - INTERLOCKING SITES AT 6984+20, 6998+50
154	TC-F4008	AUTOMATIC TRAIN CONTROL SITE PLAN - INTERLOCKING SITE AT 7010+80
155		COVER SHEET - UTILITIES
156	UT-B0001	UTILITIES - COMPOSITE UTILITY PLAN - INDEX OF DRAWINGS & UTILITY OWNER ABBREVIATIONS
157	UT-B0002	UTILITIES - COMPOSITE UTILITY PLAN - LEGEND, SYMBOLS, ABBREVIATIONS & NOTES
158	UT-B0003	UTILITIES - COMPOSITE UTILITY PLAN - KEY MAP (SHEET 1 OF 2)
159	UT-B0004	UTILITIES - COMPOSITE UTILITY PLAN - KEY MAP (SHEET 2 OF 2)
160	UT-B0005	UTILITIES - COMPOSITE UTILITY PLAN - UTILITY CROSSING CLEARANCES AT GRADE
161	UT-C1035	UTILITIES - COMPOSITE UTILITY PLAN - STA 6814+00 TO 6842+00
162	UT-C1036	UTILITIES - COMPOSITE UTILITY PLAN - STA 6842+00 TO 6870+00
163	UT-C1037	UTILITIES - COMPOSITE UTILITY PLAN - STA 6870+00 TO 6898+00
164	UT-C1038	UTILITIES - COMPOSITE UTILITY PLAN - STA 6898+00 TO 6926+00
165	UT-C1039	UTILITIES - COMPOSITE UTILITY PLAN - STA 6926+00 TO 6954+00
166	UT-C1040	UTILITIES - COMPOSITE UTILITY PLAN - STA 6954+00 TO 6982+00
167	UT-C1041	UTILITIES - COMPOSITE UTILITY PLAN - STA 6982+00 TO 7010+00
168	UT-C1042	UTILITIES - COMPOSITE UTILITY PLAN - STA 7010+00 TO 7038+00
169	UT-C1043	UTILITIES - COMPOSITE UTILITY PLAN - STA 7038+00 TO 7066+00
170	UT-C1044	UTILITIES - COMPOSITE UTILITY PLAN - STA 7066+00 TO 7094+00
171	UT-C1045	UTILITIES - COMPOSITE UTILITY PLAN - STA 7094+00 TO 7100+00
172	UT-C1506	UTILITIES - COMPOSITE UTILITY PLAN - F STREET
173	UT-C1507	UTILITIES - COMPOSITE UTILITY PLAN - 34TH STREET
174	UT-Y4505	UTILITIES - COMPOSITE UTILITY PLAN - HH&D FACILITY SCHEDULE

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TYLIN INTERNATIONAL



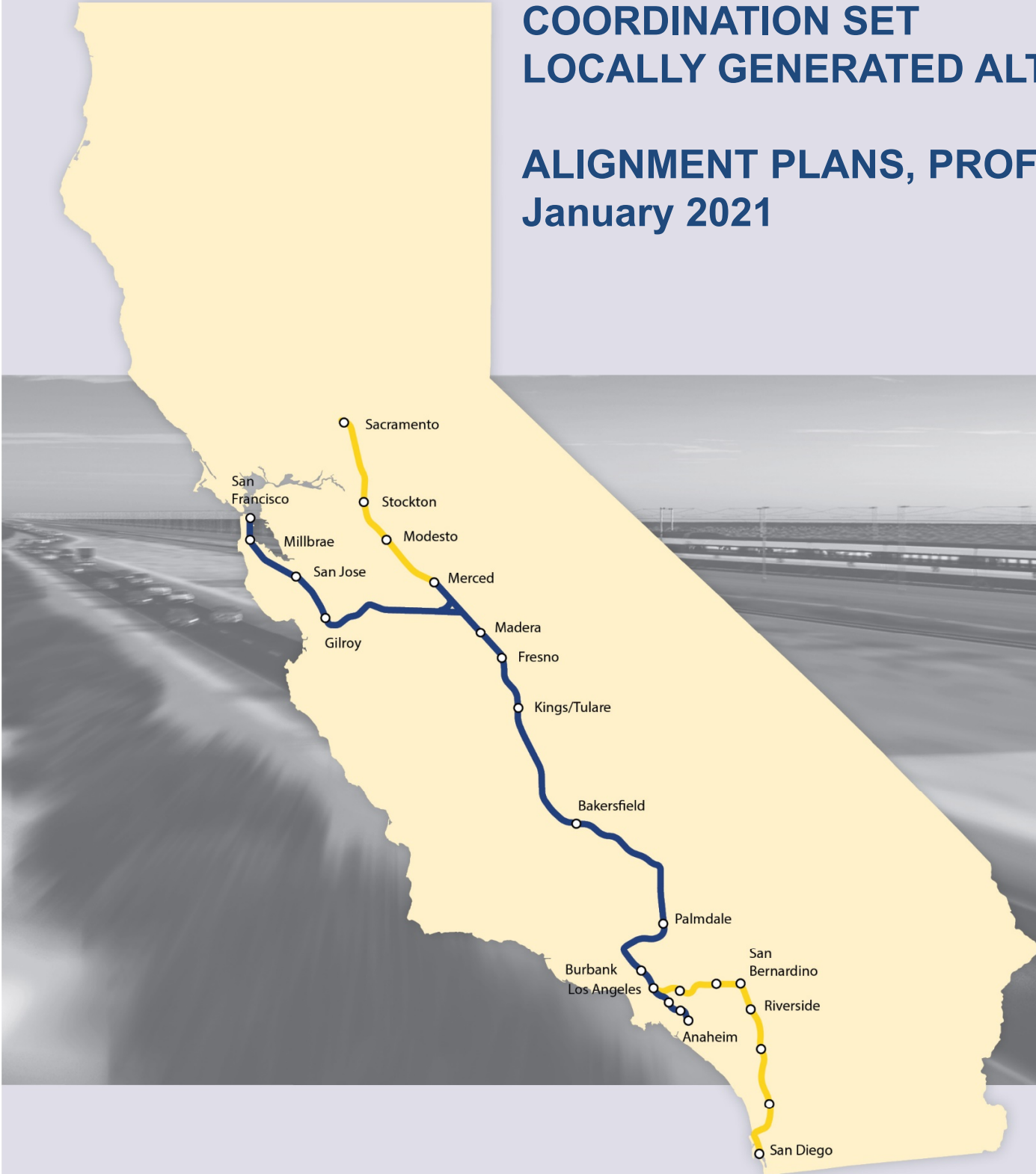
CALIFORNIA HIGH-SPEED RAIL PROJECT
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 SHEET 3 OF 3

CONTRACT NO. HSR13-44
DRAWING NO. GE-B0003
SCALE NO SCALE
SHEET NO. 4

Fresno to Bakersfield

COORDINATION SET
LOCALLY GENERATED ALTERNATIVE (LGA)

ALIGNMENT PLANS, PROFILES AND CROSS SECTIONS
January 2021



The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

GENERAL NOTES

1. HST ALIGNMENT CONTROL LINE IS DESIGNED AS THE CENTERLINE OF THE SOUTHBOUND MAINLINE TRACK.
2. TRACK PROFILE IS DESIGNED AS TOP OF THE SOUTHBOUND LOW RAIL. VERTICAL CLEARANCE REQUIREMENTS ARE MEASURED FROM THE TOP OF THE HIGH RAIL ON SUPERELEVATED TRACK. THE CLEARANCE ENVELOPES SHOWN DEMONSTRATE THE MINIMUM CLEARANCE REQUIREMENTS.
3. MINIMUM VERTICAL CLEARANCE REQUIREMENTS TO CANALS AND DITCHES ARE NOT KNOWN. FURTHER CONSULTATION WITH THE WATERCOURSE OWNERS WILL BE REQUIRED TO DETERMINE NECESSARY CLEARANCES.
4. THE FOLLOWING ARE ROADWAY DESIGN STANDARDS AND GUIDELINES:
 - A. CALTRANS HIGHWAY DESIGN MANUAL (2015)
 - B. AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (2011)
 - C. AASHTO ROADSIDE DESIGN GUIDE (2011)
 - D. APPLICABLE LOCAL DESIGN STANDARD AND GUIDELINES (I.E., CITY OF BAKERSFIELD)
5. THE FEMA FLOODPLAIN BOUNDARIES ARE CALLED OUT AS "LIMIT OF 100YR FEMA FLOODPLAIN". THE LIMITS OF THE MODELED 100 YEAR WATER SURFACE ELEVATIONS (WSE) ARE APPROXIMATE.
6. THE STRUCTURE DESIGN ASSUMES THAT THE DEPTH FROM TOR TO TOP OF DECK IS 2'-6" THROUGHOUT. HOWEVER, WHERE BALLASTED TRACK FORM IS USED, THE HEIGHT FROM TOR TO DECK SHALL BE 2'-9" PLUS AN ALLOWANCE FOR WATERPROOF MEMBRANE, AND PROTECTION LAYER IF REQUIRED. FOR SLAB TRACKFORM, THE HEIGHT FROM TOR TO DECK SHALL BE 2'-6" PLUS AN ALLOWANCE FOR WATERPROOF MEMBRANE AND PROTECTION LAYER IF REQUIRED.
7. WHERE THE VERTICAL ALIGNMENT GRADE IS LESS THAN 0.5% THE UPPER SURFACE OF THE VIADUCT STRUCTURE SHALL BE PROFILED TO GIVE A MINIMUM LONGITUDINAL FALL OF 0.5%. TYPICALLY FOR A SPAN OF 120'-00" ON A 0% GRADE SECTION OF VIADUCT THIS COULD BE ACHIEVED BY MODIFYING THE CROSS SLOPE OF THE GIRDER LINEARLY BETWEEN 0.8% AT MID-SPAN TO 2% AT EACH END.
8. WHEN LATERAL SEPARATION BETWEEN THE CONVENTIONAL RAILROAD AND HST SYSTEM IS LESS THAN 102', A SITE SPECIFIC HAZARD ANALYSIS WILL BE CONDUCTED TO DETERMINE WHAT SPECIFIC COLLISION PROTECTION MEASURES MAY NEED TO BE IMPLEMENTED.

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
 DRAWN BY
N. OLINO
 CHECKED BY
E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION

TYLININTERNATIONAL



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 GENERAL NOTES

CONTRACT NO.
HSR13-44
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 SCALE
NO SCALE
 SHEET NO.
7

A

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

B

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

C

CAA CABLE ANCHOR ASSEMBLY
CAP CORRUGATED ALUMINUM PIPE
CAPA CORRUGATED ALUMINUM PIPE ARCH
CAS CONSTRUCTION AREA SIGN
CB CONCRETE BARRIER
CBW CONCRETE BLOCK WALL
C-C CENTER TO CENTER

C CONTINUED

CHSRA CALIFORNIA HIGH SPEED RAIL AUTHORITY
CHST CALIFORNIA HIGH SPEED TRAIN
CHSR CALIFORNIA HIGH SPEED RAIL
CG CENTER OF GRAVITY
CHNL CHANNEL
CI CAST IRON
CIDH CAST-IN-DRILLED-HOLE
CIP,C-I-P CAST-IN-PLACE, CAST IRON PIPE
CIPCP CAST IN PLACE CONCRETE PIPE
CISS CAST-IN-STEEL-SHELL
CJP COMPLETE JOINT PENETRATION
C CENTERLINE
CL2 CLASS 2
CL-6 CHAIN LINK FENCE (6 FT)
CLF CHAIN LINK FENCE
CLR CLEAR, CLEARANCE
CM CORRUGATED METAL
CMP CORRUGATED METAL PIPE
CO COUNTY
COL COLUMN
CONC CONCRETE
COND CONDUIT
CONN CONNECTOR
CONST CONSTRUCT, CONSTRUCTION
CONT CONTINUOUS
COORD COORDINATE
CP CANDLEPOWER, CLEAR POINT
CR CREEK
CRCP CONTINUOUS REINFORCED CONCRETE PAVEMENT
CRSP CONCRETE ROCK SLOPE PROTECTION
CS CURVE TO SPIRAL
CSP CORRUGATED STEEL PIPE
CSPA CORRUGATED STEEL PIPE ARCH
CT CALIFORNIA DEPARTMENT OF TRANSPORTATION
CTB CEMENT TREATED BASE
CTPB CEMENT TREATED PERMEABLE BASE
CTPM CEMENT TREATED PERMEABLE MATERIAL
CTRS CENTERS
CVFPPB CENTRAL VALLEY FLOOD PROTECTION BOARD
CULV CULVERT
C CENTERLINE

D

D DEPTH
Dc DEGREE OF CURVE
DD DOWNDRAIN, DIRECTIVE DRILLING
DBL DOUBLE
DEG DEGREE
DEL DELINEATOR
DET DETAIL, DETOUR
DF DOUGLAS FIR
DI DRAINAGE INLET, DROP INLET
DIA DIAMETER
DIAPH DIAPHRAGM
DIST DISTANCE, DISTRICT
DMBB DOUBLE METAL BEAM BARRIER
DR DRIVE
DTBB DOUBLE THRIE BEAM BARRIER
DWY DRIVEWAY

E

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

F

F & C FRAME AND COVER
F & G FRAME AND GRATE
FB FLOOR BEAM
FB LGA FRESNO TO BAKERSFIELD LOCALLY GENERATED ALTERNATIVE
F-B FRESNO TO BAKERSFIELD
FDN FOUNDATION
FEBT FACING EASTBOUND TRAFFIC
FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY
FES FLARED END SECTION
FF FILTER FABRIC
FG FINISHED GRADE
FH FIRE HYDRANT
FIG FIGURE
FL FLOW LINE
FNBT FACING NORTHBOUND TRAFFIC
FOC FACE OF CONCRETE
FR RD FRONTAGE ROAD
FS FAR SIDE, FINISHED SURFACE
FSBT FACING SOUTHBOUND TRAFFIC
FT FOOT, FEET
FTG FOOTING
FWBT FACING WESTBOUND TRAFFIC
FWY FREEWAY
FPLM FULL SPAN PRECAST LAUNCHING METHOD

G

G ACCELERATION DUE TO GRAVITY

G CONTINUED

GA GAGE
GALV GALVANIZED
GIS GEOGRAPHIC INFORMATION SYSTEM
GP GRADING PLANE
GR GUARD RAILING
GSP GALVANIZED STEEL PIPE
GTR GUTTER

H

H HEIGHT
HR HOUR
HD HORIZONTAL DRAIN
HDM HIGHWAY DESIGN MANUAL
HDWL HEADWALL
HEX HD HEXAGONAL HEAD
HMA HOT MIXED ASPHALT
HORIZ HORIZONTAL
HP HINGE POINT, HORSEPOWER
HPS HIGH PERFORMANCE STEEL
HS HIGH STRENGTH
HST HIGH SPEED TRAIN
HSR HIGH SPEED RAIL
HW HEADWALL, HIGH WATER
HWM HIGH WATER MARK
HWY HIGHWAY

I

IB IMPORTED BORROW
ID INSIDE DIAMETER
IF INSIDE FACE
IN INCH, INCHES
INT INTERIOR
INV INVERT
IRR IRRIGATION

J

JCT JUNCTION
JP JOINT POLE
JPCP JOINTED PLAIN CONCRETE PAVEMENT
JS JUNCTION STRUCTURE
JT JOINT

K

K DISTANCE TO ACHIEVE 1% GRADE CHANGE

L

L LENGTH
LAT LATITUDE
LCB LEAN CONCRETE BASE
LHTO LEFT HAND TURN OUT
LN LANE
LOC LOCATION
LOL LAYOUT LINE
LONG LONGITUDE
LONGIT LONGITUDINAL
LS LENGTH OF SPIRAL
LC LENGTH OF CURVE
LT LEFT

M

MAINT MAINTENANCE
MAX MAXIMUM
MB METAL BEAM

M CONTINUED

MBB METAL BEAM BARRIER
MBGR METAL BEAM GUARD RAILING
MED MEDIAN
MGS MIDWEST GUARDRAIL SYSTEM
MH MANHOLE
MIN MINIMUM
MISC MISCELLANEOUS
MISC I & S MISCELLANEOUS IRON AND STEEL
MKR MARKER
M/L MAIN LINE (RAILWAY)
MOD MODIFIED, MODIFY
MON MONUMENT
MOIF MAINTAINANCE OF INFRASTRUCTURE FACILITY
MP METAL PLATE
MPGR METAL PLATE GUARD RAILING
MPH MILES PER HOUR
MR MOVEMENT RATING
MSE MECHANICALLY STABILIZED EARTH
MTL MATERIAL
MSS MOVING SCAFFOLDING SYSTEM
MVP MAINTENANCE VEHICLE PULLOUT

N

N NORTH, NORTHING
NB NORTHBOUND
NO. NUMBER (MUST HAVE PERIOD)
NOS. NUMBERS (MUST HAVE PERIOD)
NPS NOMINAL PIPE SIZE
NS NEAR SIDE
NTS NOT TO SCALE
N/A NOT APPLICABLE

O

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

P

P PAGE
PAP PERFORATED ALUMINUM PIPE
PB PULL BOX
PC POINT OF CURVATURE, PRECAST
PCC POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCP PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC POINT OF COMPOUND VERTICAL CURVE
PED PEDESTRIAN
PED OC PEDESTRIAN OVERCROSSING
PED UC PEDESTRIAN UNDERCROSSING
PERM MTL PERMEABLE MATERIAL
PG PROFILE GRADE
PI POINT OF INTERSECTION
PITO POINT OF INTERSECTION TURNOUT

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Table with columns: REV, DATE, BY, CHK, APP, DESCRIPTION. Includes revision history and design details.

DESIGNED BY J. TREJO
DRAWN BY B. MOUN
CHECKED BY E. WINTERS
IN CHARGE P. PIENTON
DATE 10/28/2016

RECORD SET
PEPD DESIGN SUBMISSION
TYLIN INTERNATIONAL



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
ABBREVIATIONS AND SYMBOLS SHEET 1

Table with columns: CONTRACT NO., DRAWING NO., SCALE, SHEET NO. Values: HSR13-44, TT-B0003, NO SCALE, 8

P CONTINUED

PJP	PARTIAL JOINT PENETRATION
PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POB	POINT OF BEGINNING
POC	POINT OF HORIZONTAL CURVE
POE	POINT OF ENDING
POT	POINT OF TANGENT
POTO	POWER OPERATED TURNOUT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PROP	PROPOSED
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED, PARALLEL STATION
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
Q	
QTY	QUANTITY
R	
R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
REINF	REINFORCED, REINFORCEMENT, REINFORCING
REL	RELOCATE
REPL	REPLACEMENT
RET	RETAINING
REV	REVISED
RDWY	ROADWAY
RHTO	RIGHT HAND TURN OUT
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION
RT	RIGHT
RTE	ROUTE
RW	REDWOOD, RETAINING WALL
R/W, ROW	RIGHT OF WAY
RWY	RAILWAY
S	
S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
SALV	SALVAGE

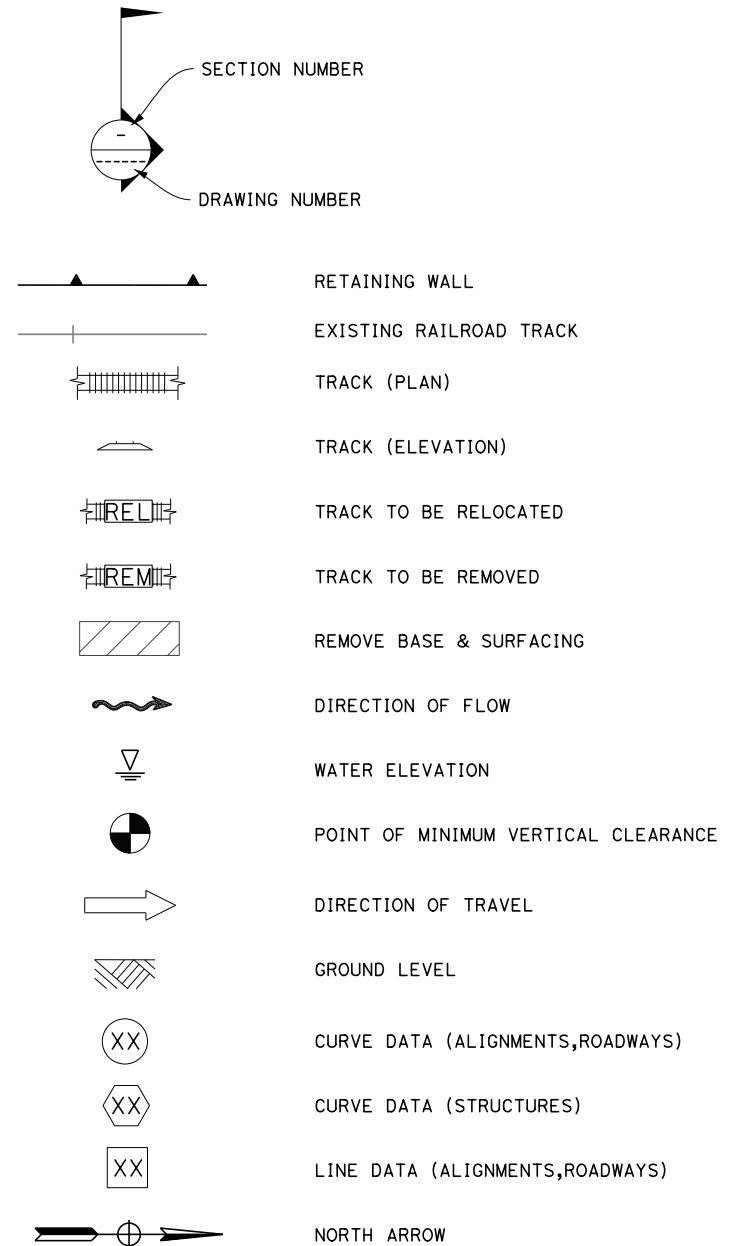
S CONTINUED

SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SPIRAL TO CURVE
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
SEC	SECOND
SECT	SECTION
SEP	SEPARATION
SG	SUBGRADE
SHLD	SHOULDER
SHT	SHEET
SIM	SIMILAR
S	STATION LINE
SM	SELECTED MATERIAL
SPEC	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE, SPIRAL TO SPIRAL, SWITCHING STATION
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
SR	STATE ROUTE
ST	STREET, SPIRAL TO TANGENT
STA	STATION
STBB	SINGLE THRIE BEAM BARRIER
STD	STANDARD
STR	STRUCTURE
SRS	STAND ALONE RADIO SITE
SURF	SURFACING
SW	SIDEWALK, SOUND WALL
SWR	SEWER
SWS	SWITCHING STATION
SYM	SYMMETRICAL
S4S	SURFACE 4 SIDES
SJVR	SAN JOAQUIN VALLEY RAILROAD
T	
T	SEMI-TANGENT
TAB	TABLET
TAN	TANGENT
TBB	THRIE BEAM BARRIER
TBR	TIMBER
TC	TOP OF CURB, TANGENT TO CURVE
TCB	TRAFFIC CONTROL BOX
TEL	TELEPHONE
TEMP	TEMPORARY
TG	TOP OF GRADE
TM	TECHNICAL MEMORANDUM
TO	TURN OUT
TOR	TOP OF RAIL
TOT	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
TPSS	TRACTION POWER SUPPLY STATION
TRANS	TRANSITION, TRANSVERSE
TS	TRAFFIC SIGNAL, TUBULAR STEEL, TANGENT TO SPIRAL

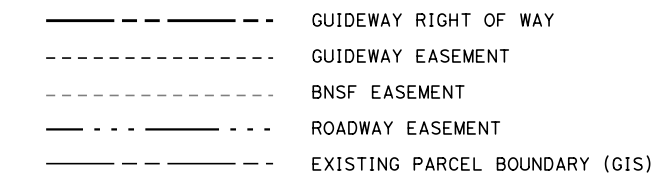
T CONTINUED

TYP	TYPICAL
TW	TRAVEL WAY
TWLT	TWO WAY LEFT TURN
U	
UC	UNDERCROSSING
UD	UNDERDRAIN
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
UPRR	UNION PACIFIC RAILROAD
USFWS	UNITED STATES FISH AND WILDLIFE SERVICE
W	
W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
WT	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE
W/	WITH
X	
X SEC	CROSS SECTION
XING	CROSSING
Y	
YL	YARD LEAD
YR	YEAR
YRS	YEARS
V	
V	VALVE, DESIGN SPEED
VAR	VARIABLE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VIA	VIADUCT
VOL	VOLUME
VPI	VERTICAL POINT OF INTERSECTION

LEGEND



R/W AND EASEMENT LEGEND

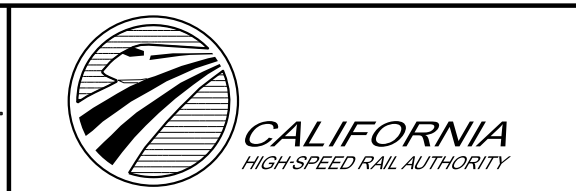


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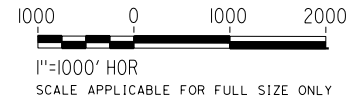
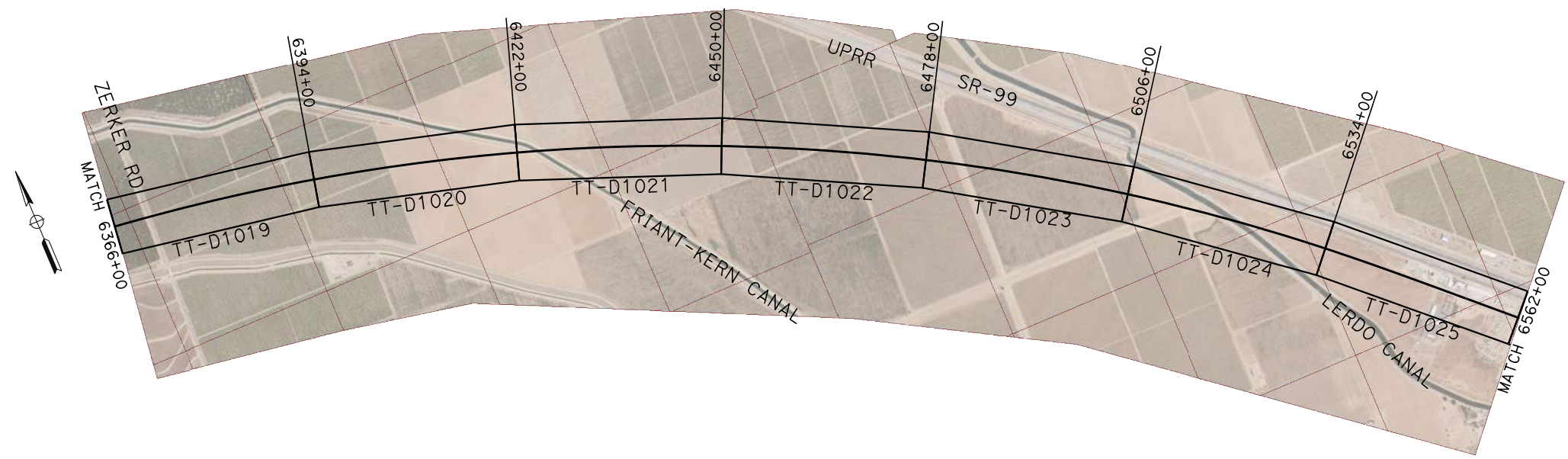
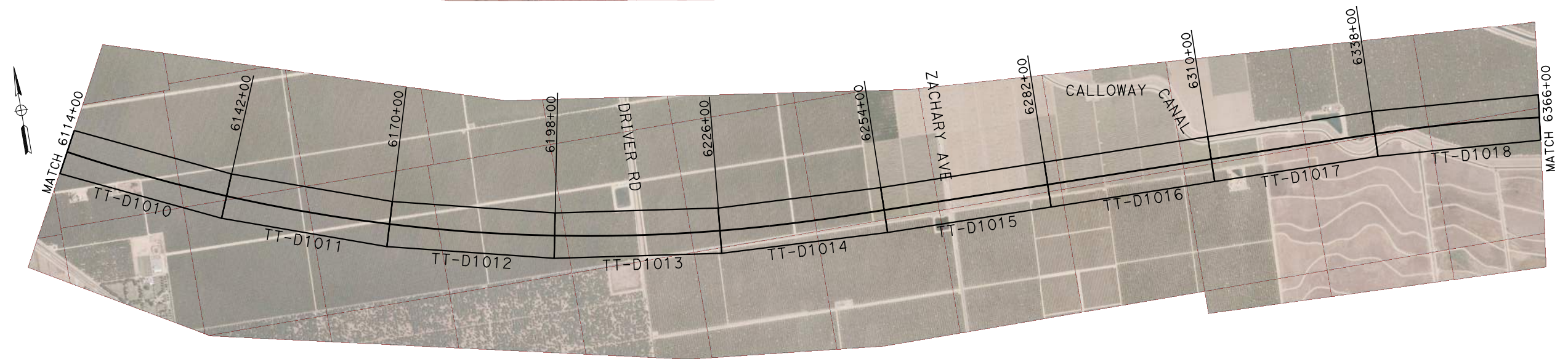
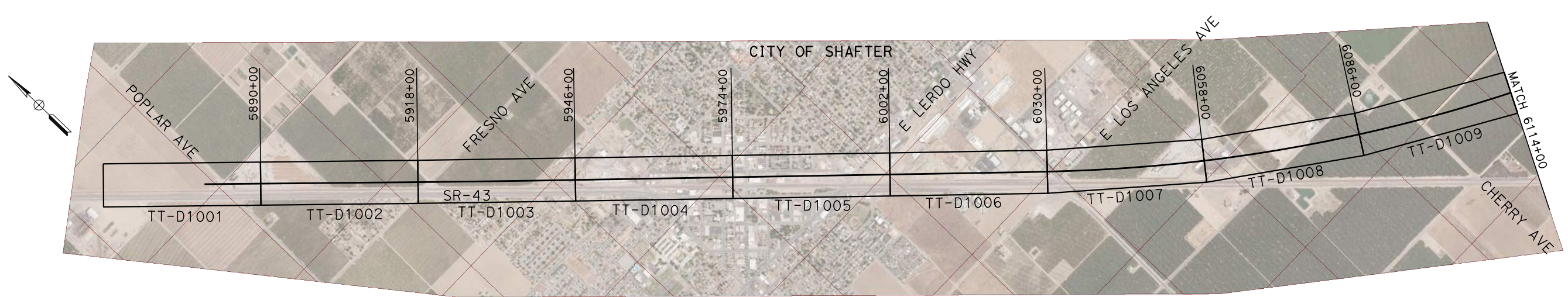
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 ABBREVIATIONS AND SYMBOLS SHEET 2

CONTRACT NO. HSR13-44
DRAWING NO. TT-B0004
SCALE NO SCALE
SHEET NO. 9

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N. OLINO
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P. PIENTON
DATE
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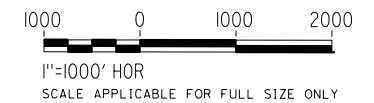
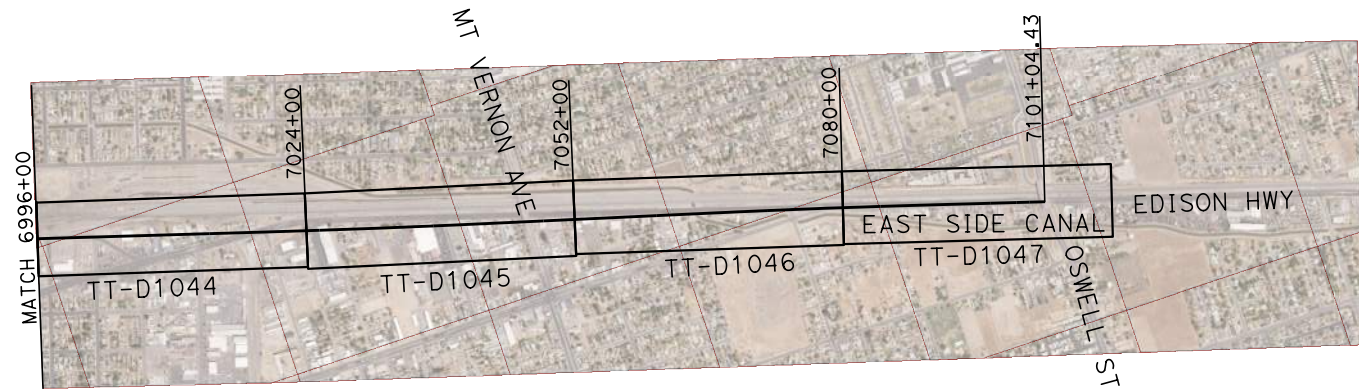
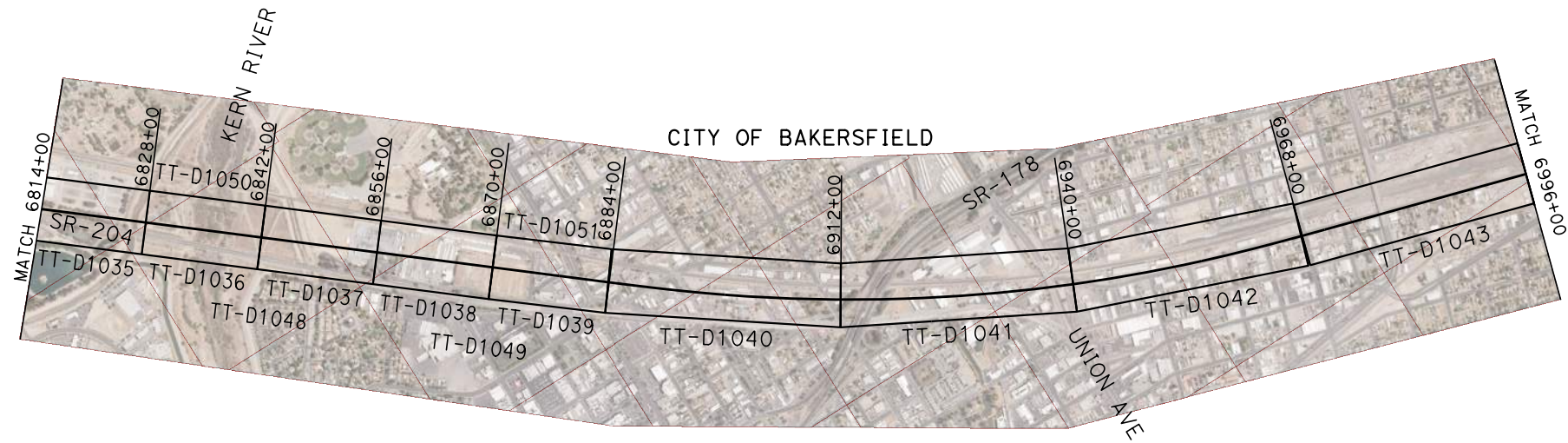
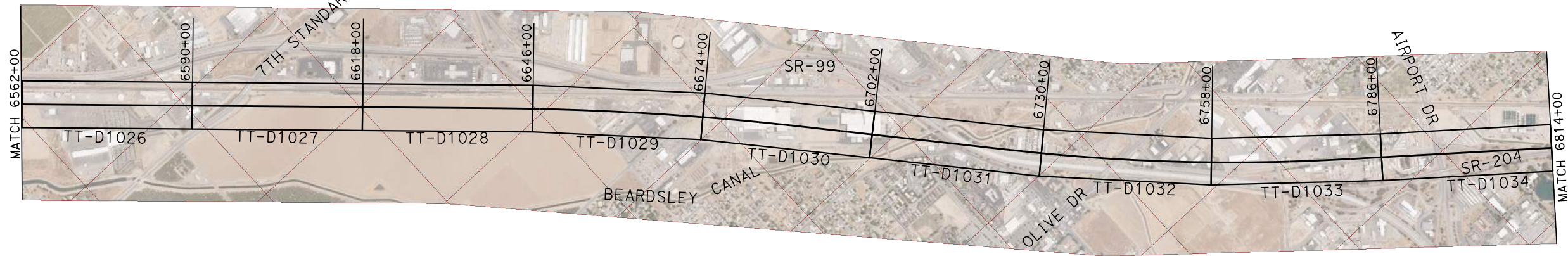
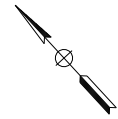
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
KEY MAP SHEET 1

CONTRACT NO.
HSR13-44
DRAWING NO.
TT-B0005
SCALE
AS SHOWN
SHEET NO.
10

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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
KEY MAP SHEET 2

CONTRACT NO.
HSR13-44
DRAWING NO.
TT-B0006
SCALE
AS SHOWN
SHEET NO.
11

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FB LGA SB TRACK GEOMETRY DATA													
CURVE NO.	DESCRIPTION	BEARING	DISTANCE (ft)	STATION	NORTHING	EASTING	R (FT)	Lc (FT)	SPIRAL TYPE	LS (FT)	Ea (IN)	Eu (IN)	V (MPH)
	POB/POT			5880+00.00	2378880.686	6175820.232							
101	TS	S44°17'09.7"E	3060.451	5910+60.45	2376689.822	6177957.164	350000.00	1579.08	HALF-SINE	1150.00	0.00	0.71	250
	SC			5922+10.45	2375866.972	6178760.543							
	CS			5937+89.53	2374740.872	6179867.521							
	ST			5949+39.53	2373923.521	6180676.494							
102	TS	S44°43'58.0"E	6772.408	6017+11.94	2369112.423	6185442.924	28016.50	19228.08	HALF-SINE	2500.00	6.00	2.92	250
	SC			6042+11.94	2367360.092	6187225.668							
	CS			6234+40.03	2359978.689	6204573.513							
	ST			6259+40.03	2359909.248	6207072.317							
103	TS	S89°10'05.9"E	6474.090	6324+14.12	2359815.273	6213545.725	28000.00	18188.38	HALF-SINE	2500.00	6.00	2.93	250
	SC			6349+14.12	2359745.812	6216044.528							
	CS			6531+02.49	2353051.837	6232613.704							
	ST			6556+02.49	2351366.067	6234459.515							
104	TS	S46°50'02.8"E	7755.053	6633+57.55	2346060.735	6240115.867	48000.00	3615.96	HALF-SINE	1350.00	3.25	1.96	250
	SC			6647+07.55	2345133.082	6241096.645							
	CS			6683+23.50	2342526.917	6243602.012							
	ST			6696+73.50	2341510.329	6244490.277							
105	TS	S40°54'23.2"E	2071.612	6717+45.12	2339944.647	6245846.822	32000.00	3740.45	HALF-SINE	1600.00	5.00	2.81	250
	SC			6733+45.12	2338743.256	6246903.473							
	CS			6770+85.57	2336131.769	6249578.393							
	ST			6786+85.57	2335104.250	6250804.792							
106	TS	S50°28'06.6"E	9121.617	6878+07.18	2329298.318	6257840.064	19516.50	5759.88	HALF-SINE	2000.00	7.00	2.91	220
	SC			6898+07.18	2328049.114	6259401.638							
	CS			6955+67.06	2325342.363	6264462.228							
	ST			6975+67.06	2324736.921	6266368.131							
107	TS	S73°14'58.7"E	3821.897	7013+88.96	2323635.442	6270027.863	135000.00	1185.16	HALF-SINE	1150.00	0.00	1.85	250
	SC			7025+38.96	2323305.404	6271129.486							
	CS			7037+24.12	2322973.666	6272267.270							
	ST			7048+74.12	2322659.929	6273373.646							
108	TS	S74°14'26.6"E	1181.305	7060+55.43	2322339.091	6274510.547	120000.00	1182.15	HALF-SINE	1150.00	1.00	1.08	250
	SC			7072+05.43	2322025.178	6275616.873							
	CS			7083+87.57	2321693.073	6276751.406							
	ST			7095+37.57	2321360.856	6277852.374							
	POE/POT			7101.04.43	2321196.327	6278394.828							

BNSF M/L 1 TRACK GEOMETRY DATA													
CURVE NO.	DESCRIPTION	BEARING	DISTANCE (ft)	STATION	NORTHING	EASTING	Dc (DEGREES)	Lc (FT)	SPIRAL TYPE	LS (FT)	Ea (IN)	Eu (IN)	V (MPH)
	POB/POT			869+00.00	2379573.561	6174955.191							
B-1	TS	S44°16'52.2"E	25.765	869+25.77	2379555.115	6174973.179	0°30'0"	162.78	CLOTHOID	100.00	0.50	1.68	79
	SC			870+25.77	2379483.422	6175042.893							
	CS			871+88.55	2379365.587	6175155.200							
	ST			872+88.55	2379292.512	6175223.464							
B-2	TS	S42°58'02.1"E	530.016	878+18.56	2378904.677	6175584.713	0°30'0"	163.02	CLOTHOID	100.00	0.50	1.68	79
	SC			879+18.56	2378831.602	6175652.977							
	CS			880+81.58	2378713.598	6175765.448							
	ST			881+81.58	2378641.906	6175835.163							
B-3	TS	S44°16'56.4"E	22775.779	1109+57.36	2362336.544	6191737.089	0°30'0"	160.26	CLOTHOID	100.00	0.50	1.68	79
	SC			1110+57.36	2362265.055	6191807.013							
	CS			1112+17.62	2362151.602	6191920.201							
	ST			1113+17.62	2362081.511	6191991.526							
B-4	TS	S45°35'01.1"E	511.964	1118+29.59	2361723.204	6192357.208	0°30'0"	159.63	CLOTHOID	100.00	0.50	1.68	79
	SC			1119+29.59	2361653.113	6192428.534							
	CS			1120+89.22	2361540.108	6192541.282							
	ST			1121+89.22	2361468.623	6192611.209							
	POE/POT			1122+00.00	2361460.906	6192618.735							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
 DRAWN BY
N. OLINO
 CHECKED BY
E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION

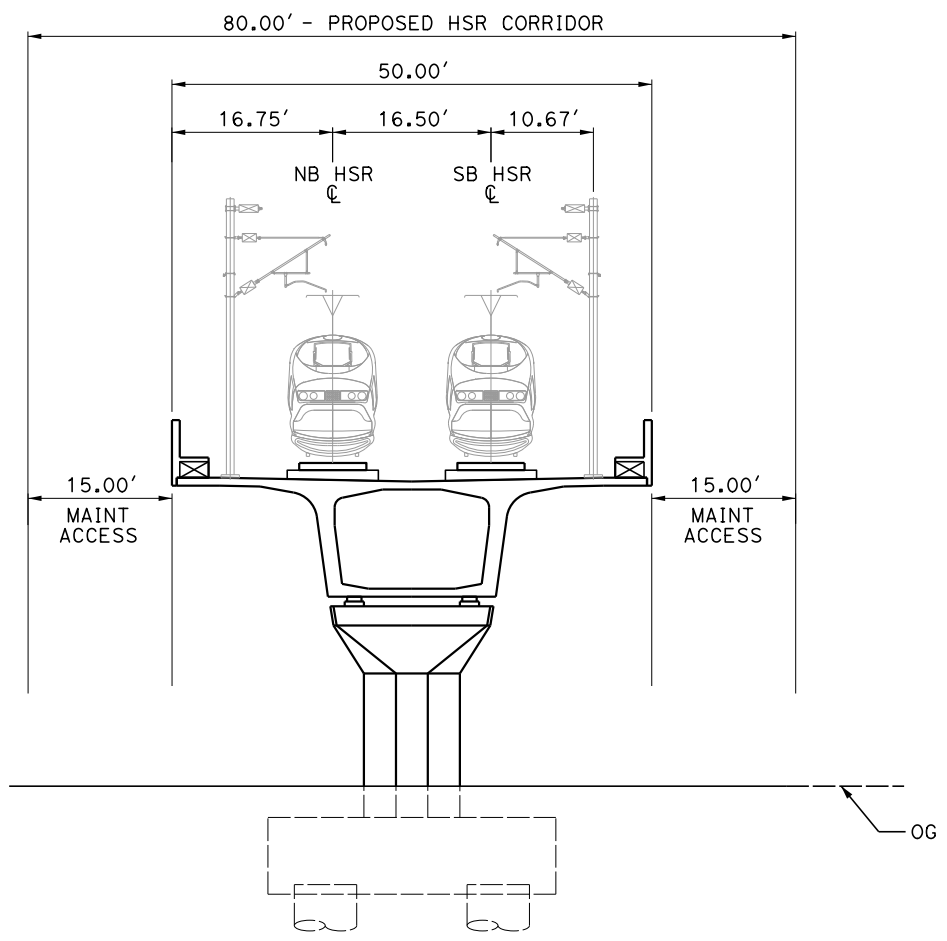


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 HORIZONTAL ALIGNMENT DATA TABLE

CONTRACT NO.
 HSR13-44
 DRAWING NO.
 TT-B0007
 SCALE
 AS SHOWN
 SHEET NO.
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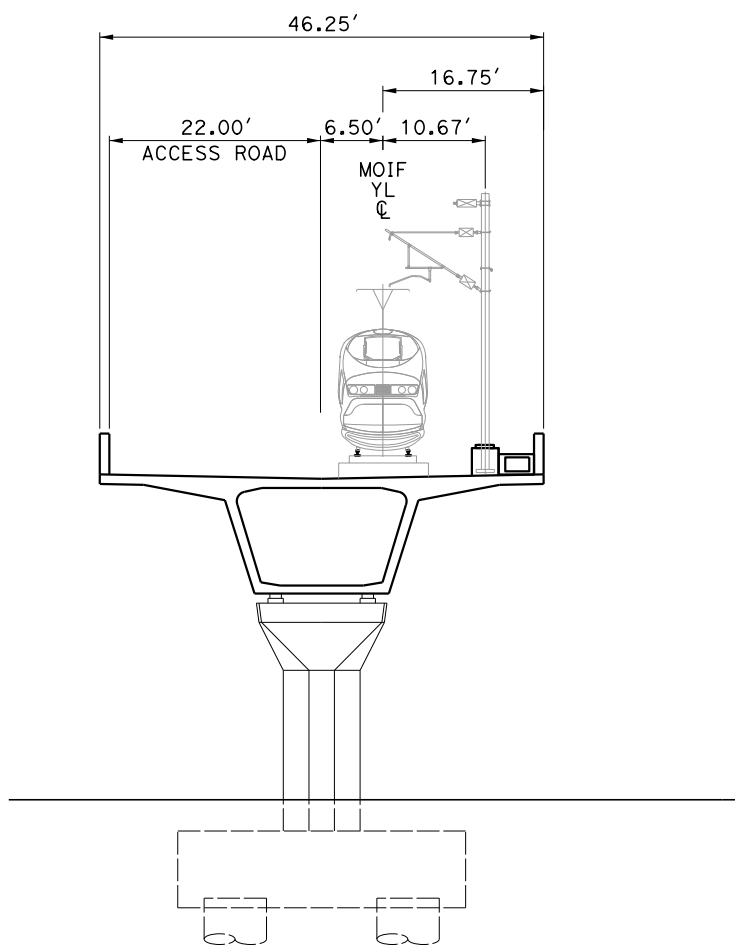
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 TYLIN\jtrejo

- NOTES:**
1. TRACKFORM 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 TABLE.
 4. FOR BRIDGES SHORTER THAN 1000 FEET BALLASTED DECKS ARE TO BE USED FOR HOMOGENEITY IN TRACK TYPE AND ATTENUATION REQUIREMENTS
 5. STEEL TRUSS STRUCTURE TYPE ANTICIPATED ACROSS CANALS.



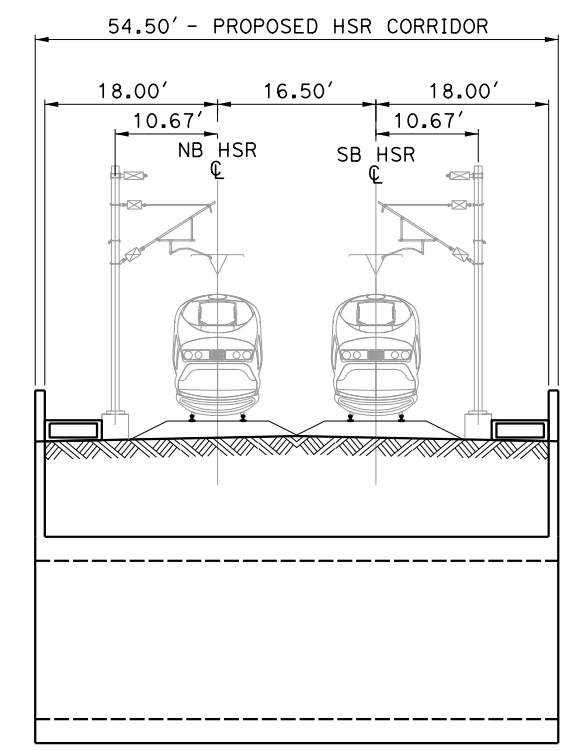
SECTION 9

TWIN TRACK - ELEVATED VIADUCT OR BRIDGE
 5919+82 TO 5922+02
 5953+57 TO 5954+75
 5975+89 TO 5977+07
 5992+48 TO 5996+82
 6009+51 TO 6012+01
 6074+55 TO 6078+15
 6096+42 TO 6098+12
 6211+53 TO 6212+73
 6264+77 TO 6265+97
 6329+44 TO 6332+74 SEE NOTE 5
 6370+55 TO 6371+75
 6421+39 TO 6427+09 SEE NOTE 5
 6513+94 TO 6517+24 SEE NOTE 5
 6545+00 TO 6673+25
 6700+60 TO 6714+57
 6721+25 TO 6779+96
 6784+36 TO 6798+06
 6798+06 TO 6801+26
 6801+26 TO 6828+26
 6883+50 TO 6935+46
 6935+46 TO 6940+87
 6940+87 TO 6953+36
 7002+12 TO 7018+26
 7020+82 TO 7046+00



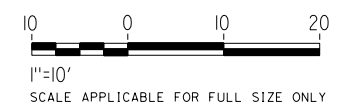
SECTION 10

SINGLE TRACK - MOIF YARD LEAD TRACK
 YL STA 920+51 TO 922+63



SECTION 11

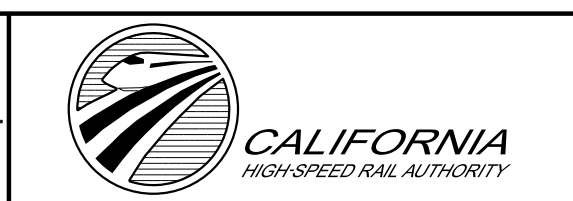
TWIN TRACK - RETAINED EMBANKMENT, FARM ROAD UNDERCROSSING
 STA 6482+83 TO 6483+23



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
 DRAWN BY
N. OLINO
 CHECKED BY
E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

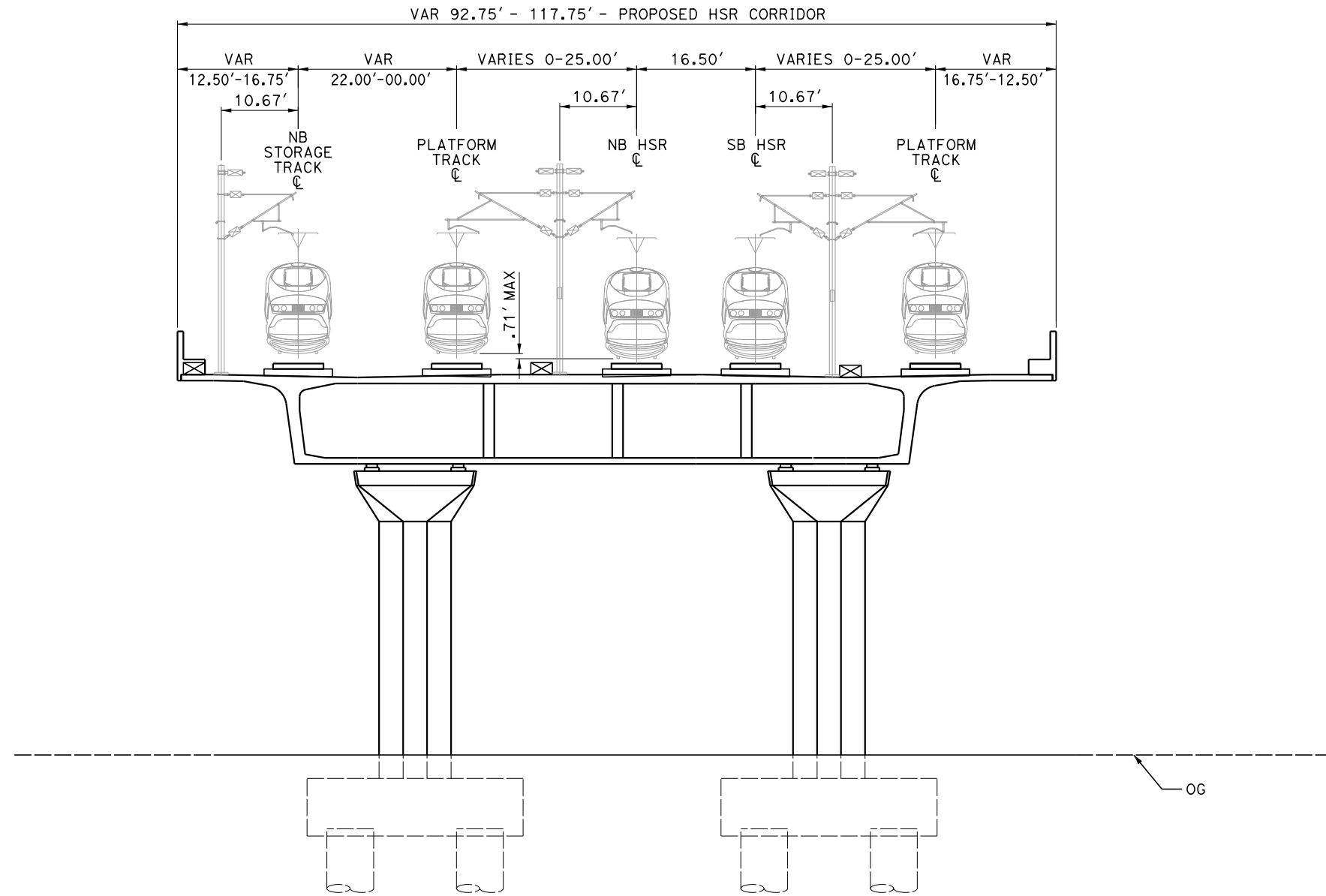
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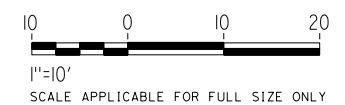
**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 TYPICAL SECTIONS SHEET 6

CONTRACT NO.
HSR13-44
 DRAWING NO.
TT-B0013
 SCALE
AS SHOWN
 SHEET NO.
13

- NOTES:**
1. TRACKFORM 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 TABLE.



SECTION 12
TWIN TRACKS - ELEVATED VIADUCT - STATION AND NB STORAGE TRACK
6828+26 TO 6848+16



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J. TREJO
 DRAWN BY
J. TREJO
 CHECKED BY
E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

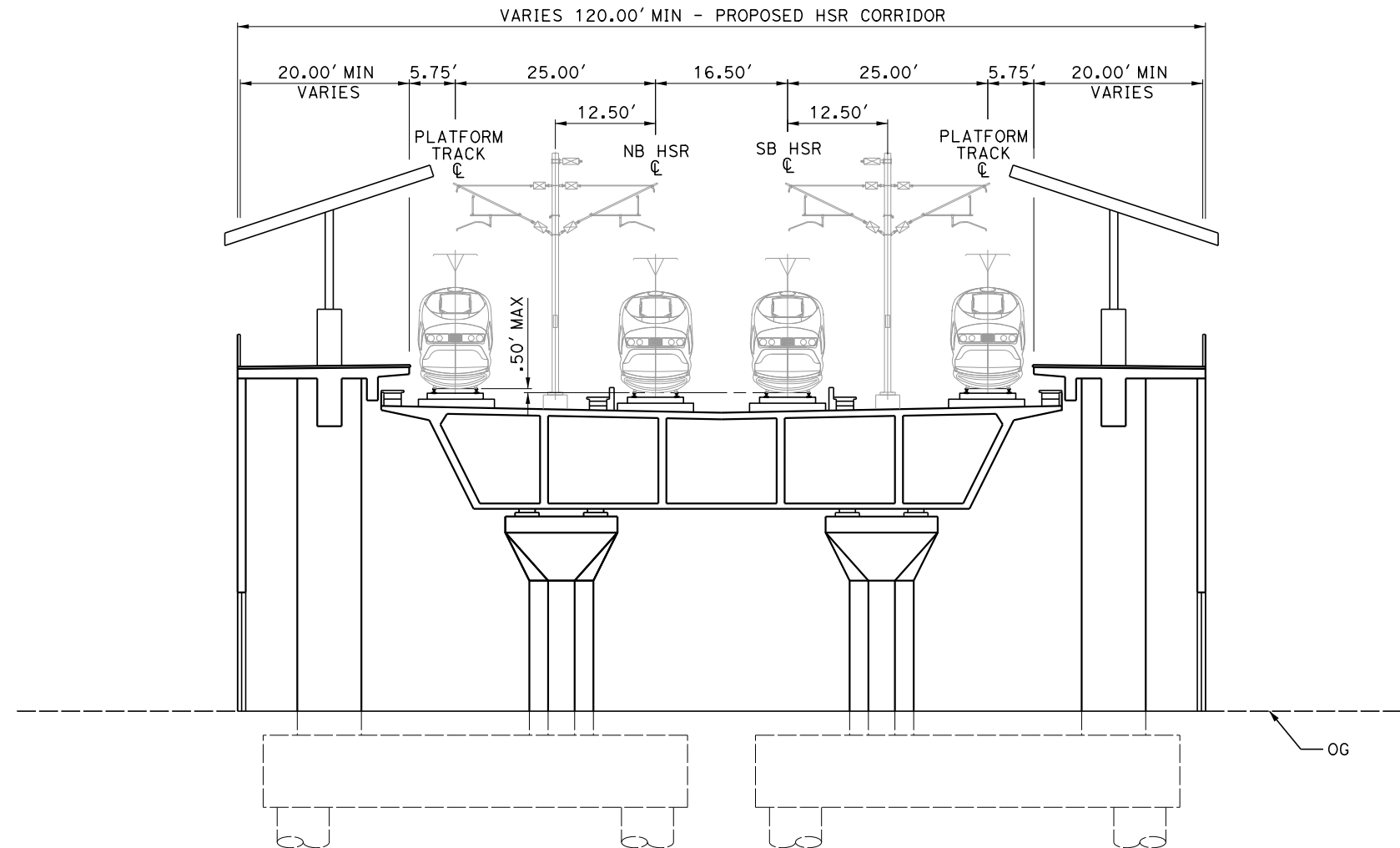
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SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 TYPICAL SECTIONS SHEET 7

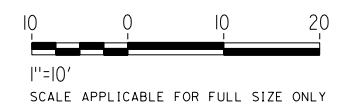
CONTRACT NO.
HSR13-44
 DRAWING NO.
TT-B0014
 SCALE
AS SHOWN
 SHEET NO.
14

- NOTES:**
1. TRACKFORM 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 TABLE.
 4. SEE STATION AREA PLANS FOR STATION PLATFORM DIMENSIONS.



SECTION 13

TWIN TRACKS - ELEVATED VIADUCT - STATION TRACKS
6848+16 TO 6863+66



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J. TREJO
 DRAWN BY
N. OLINO
 CHECKED BY
E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

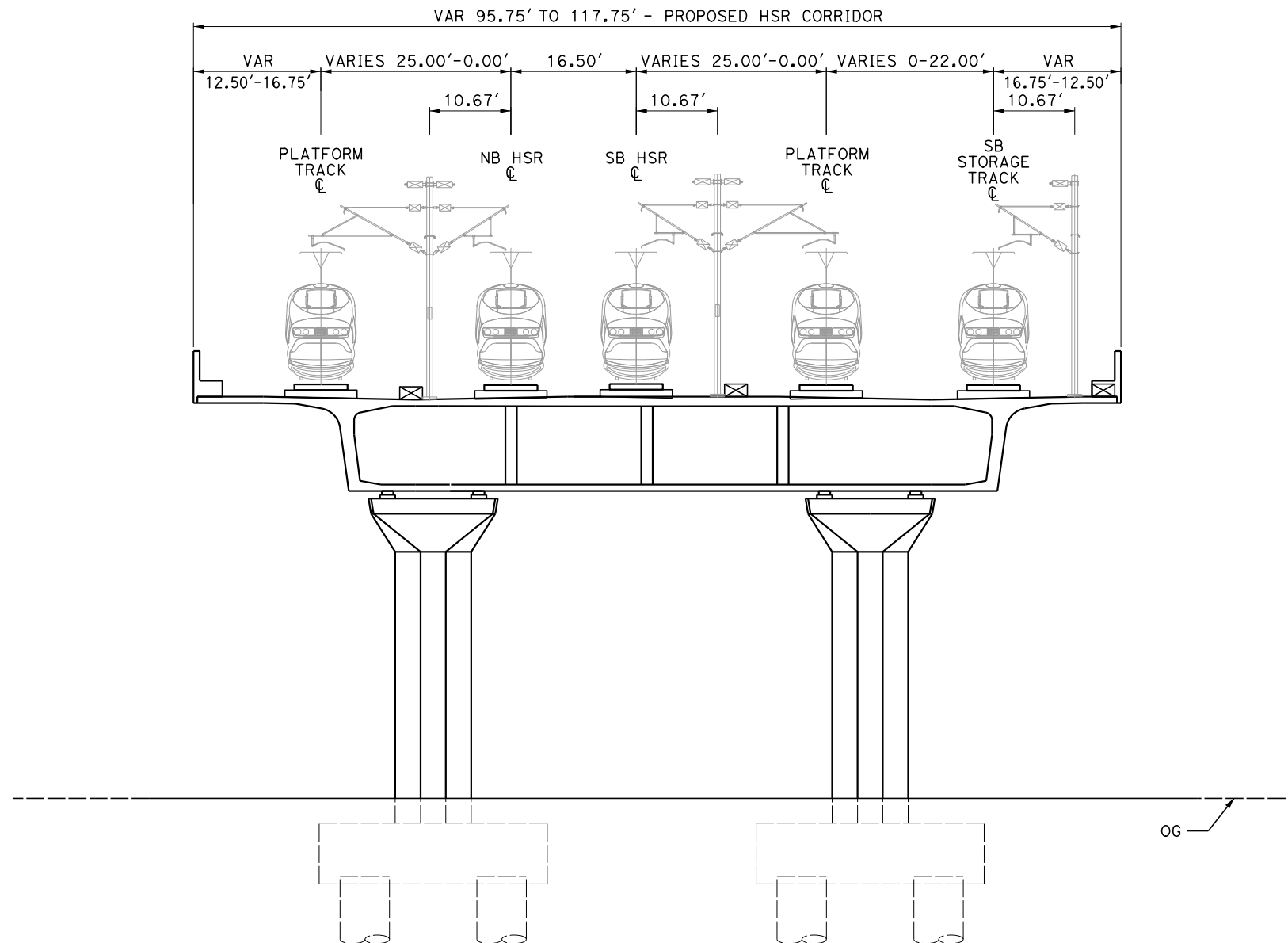
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SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 TYPICAL SECTIONS SHEET 8

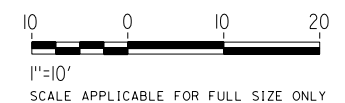
CONTRACT NO.
HSR13-44
 DRAWING NO.
TT-B0015
 SCALE
AS SHOWN
 SHEET NO.
15

- NOTES:**
1. TRACKFORM 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 TABLE.



SECTION 14

TWIN TRACKS - ELEVATED VIADUCT - STATION AND SB STORAGE TRACK
 STA: 6863+66 TO 6874+83



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J. TREJO
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E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

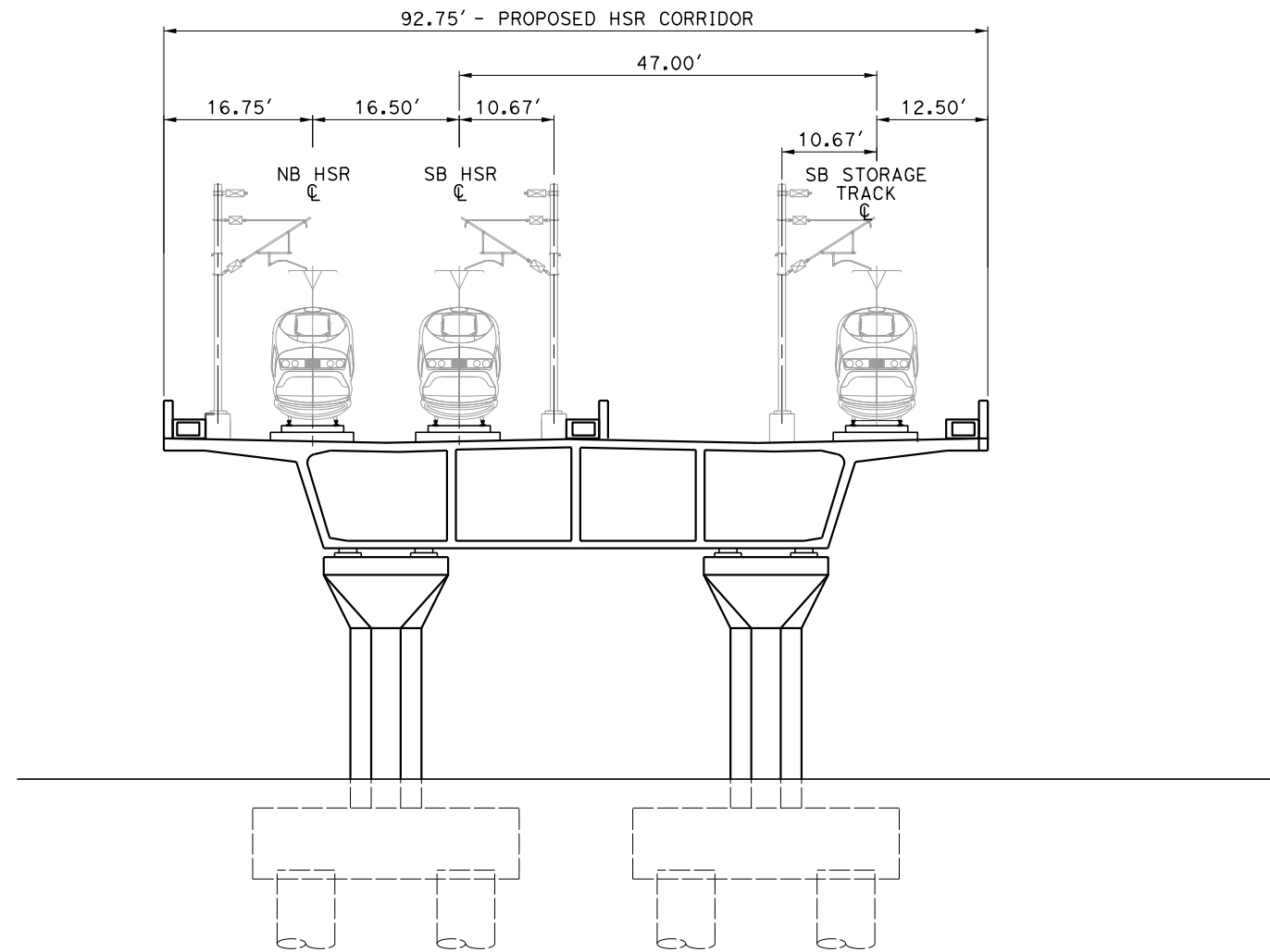
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PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 TYPICAL SECTIONS SHEET 9

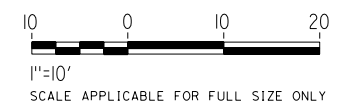
CONTRACT NO.
HSR13-44
 DRAWING NO.
TT-B0016
 SCALE
AS SHOWN
 SHEET NO.
16

- NOTES:**
1. TRACKFORM 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 TABLE.



SECTION 15

TWIN TRACKS - ELEVATED VIADUCT - SB STORAGE TRACK
6874+83 TO 6884+95



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J. TREJO
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E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION

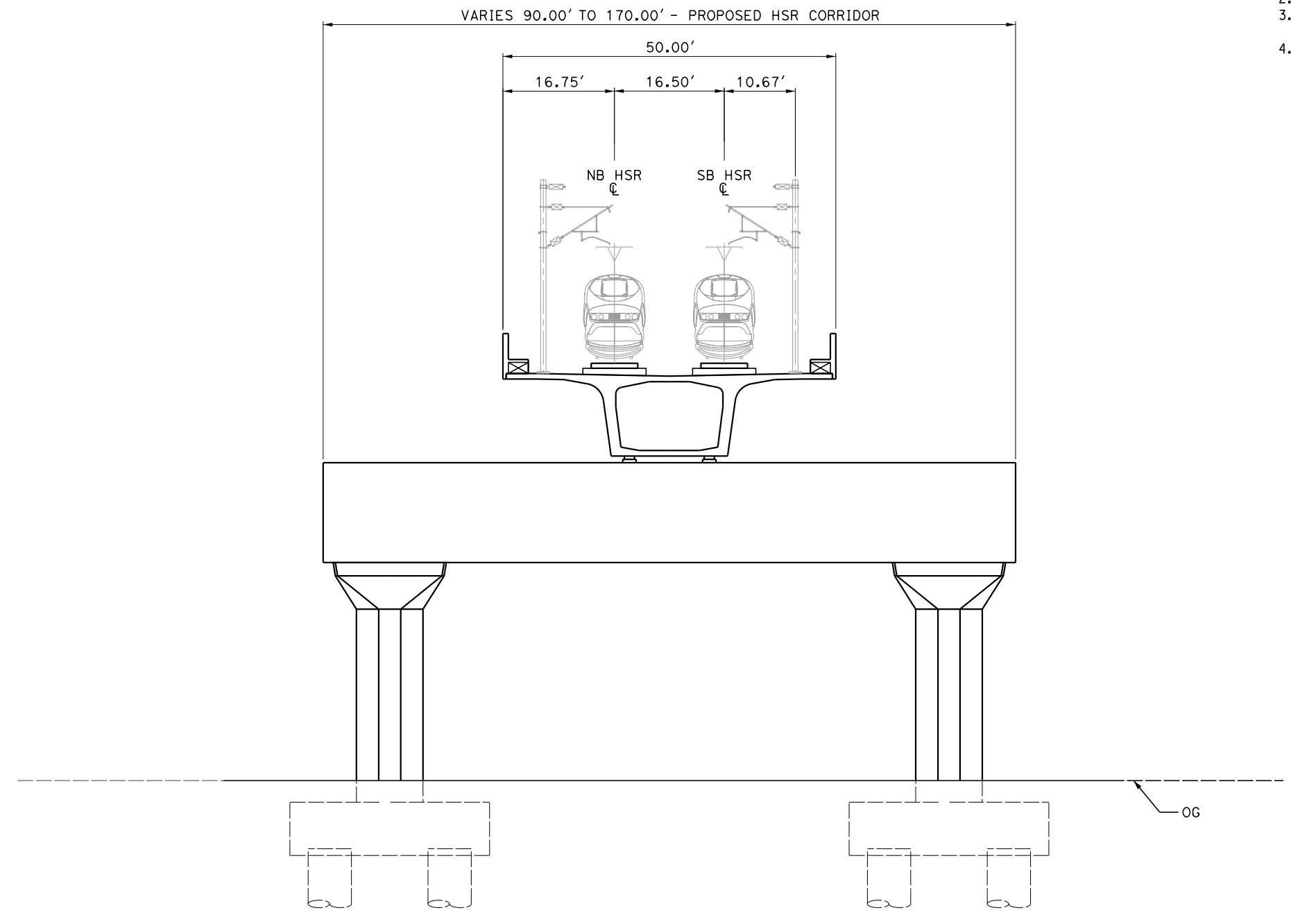


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 TYPICAL SECTIONS SHEET 10

CONTRACT NO.
HSR13-44
 DRAWING NO.
TT-B0017
 SCALE
AS SHOWN
 SHEET NO.
17

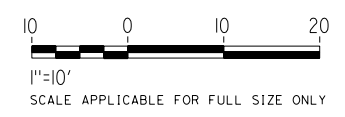
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- NOTES:**
1. TRACKFORM IS INDICATIVE.
 2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
 3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLE.
 4. SINGLE STRADDLE BENT LOCATIONS ARE NOTED BY THE STATION AT STRADDLE C AT WHICH THEY OCCUR. NOT BY STATION RANGE.



SECTION 16

TWIN TRACKS - ELEVATED VIADUCT - STRADDLE BENT
 6714+57 TO 6721+25
 6779+96 TO 6784+36
 6798+06
 6801+26
 6935+46
 6940+87
 6953+36 TO 6954+51
 6967+32 TO 6969+42
 6977+17 TO 6978+97
 7002+12
 7018+26 TO 7020+82
 7068+16 TO 7070+87



REV	DATE	BY	CHK	APP	DESCRIPTION

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P. PIENTON
 DATE
10/28/2016

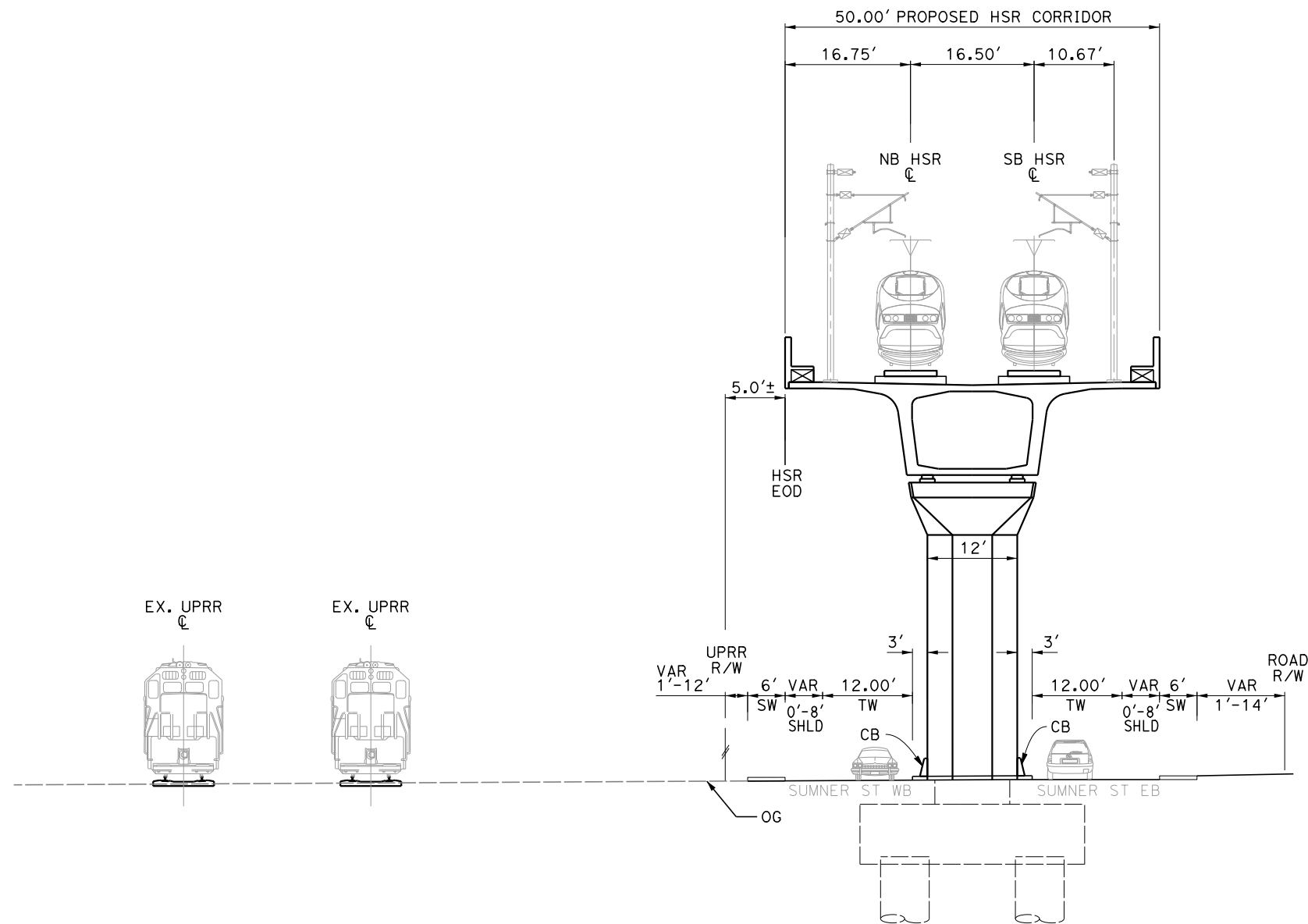
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 TYPICAL SECTIONS SHEET 11

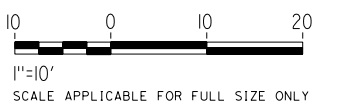
CONTRACT NO.
HSR13-44
 DRAWING NO.
TT-B0018
 SCALE
AS SHOWN
 SHEET NO.
18

- NOTES:**
1. TRACKFORM 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 TABLE.
 4. PARKING RESTRICTED AT INTERSECTION AND STRADDLE BENTS.
 5. PARKING WHERE ALLOWED, WILL BE RESTRICTED TO PASSENGER CARS ONLY.



SECTION 17

TWIN TRACKS - ELEVATED VIADUCT - SUMNER ST
 6954+51 TO 6967+32
 6969+42 TO 6977+17
 6978+97 TO 7002+12



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DESIGNED BY
J. TREJO
 DRAWN BY
J. TREJO
 CHECKED BY
E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

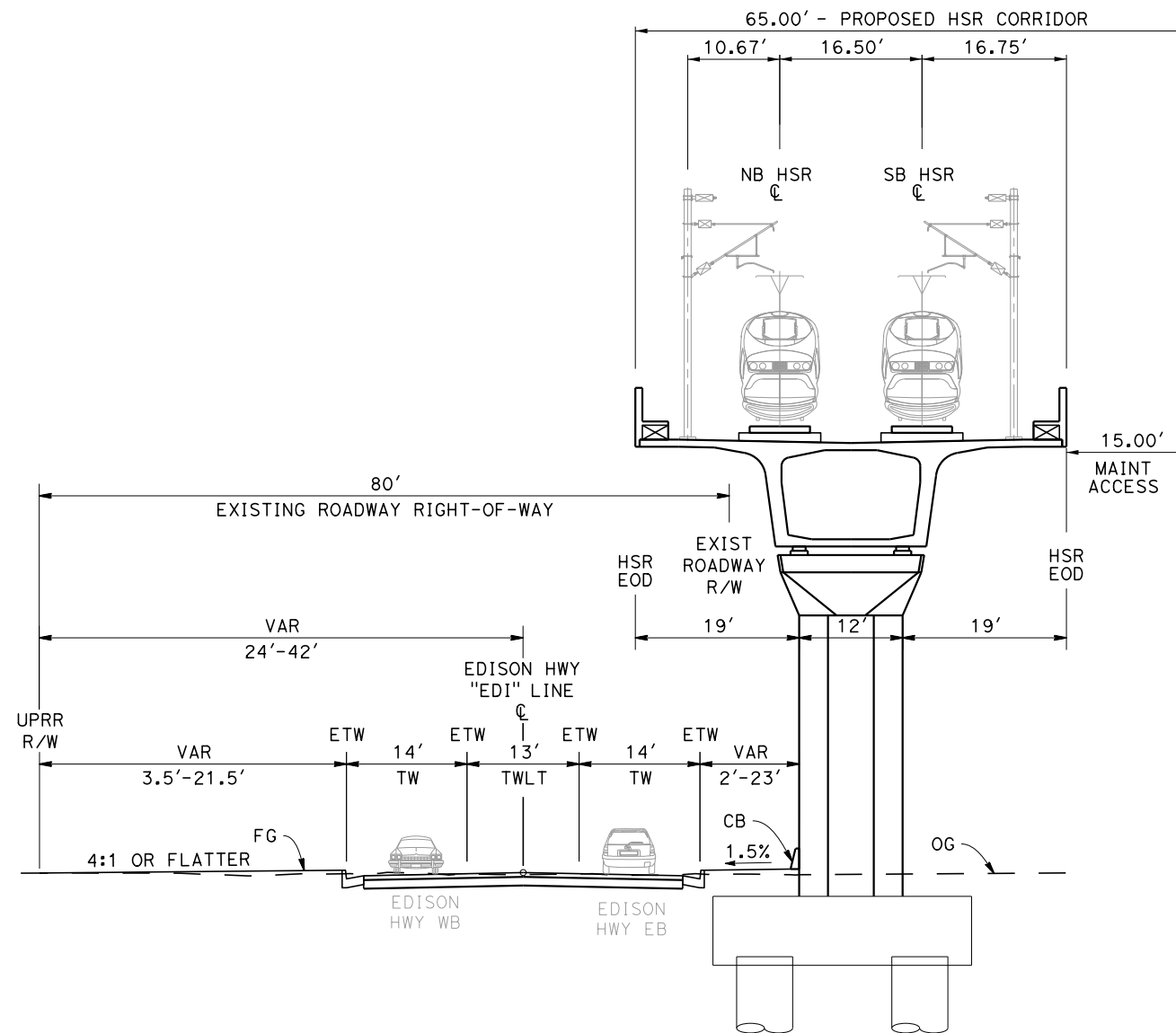
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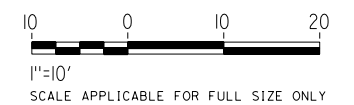
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 TYPICAL SECTIONS SHEET 12

CONTRACT NO.
HSR13-44
 DRAWING NO.
TT-B0019
 SCALE
AS SHOWN
 SHEET NO.
19

- NOTES:**
1. TRACKFORM 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 TABLE.



SECTION 18
TWIN TRACKS - ELEVATED VIADUCT - EDISON HWY LEFT
7046+00 TO 7068+16



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J. TREJO
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E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

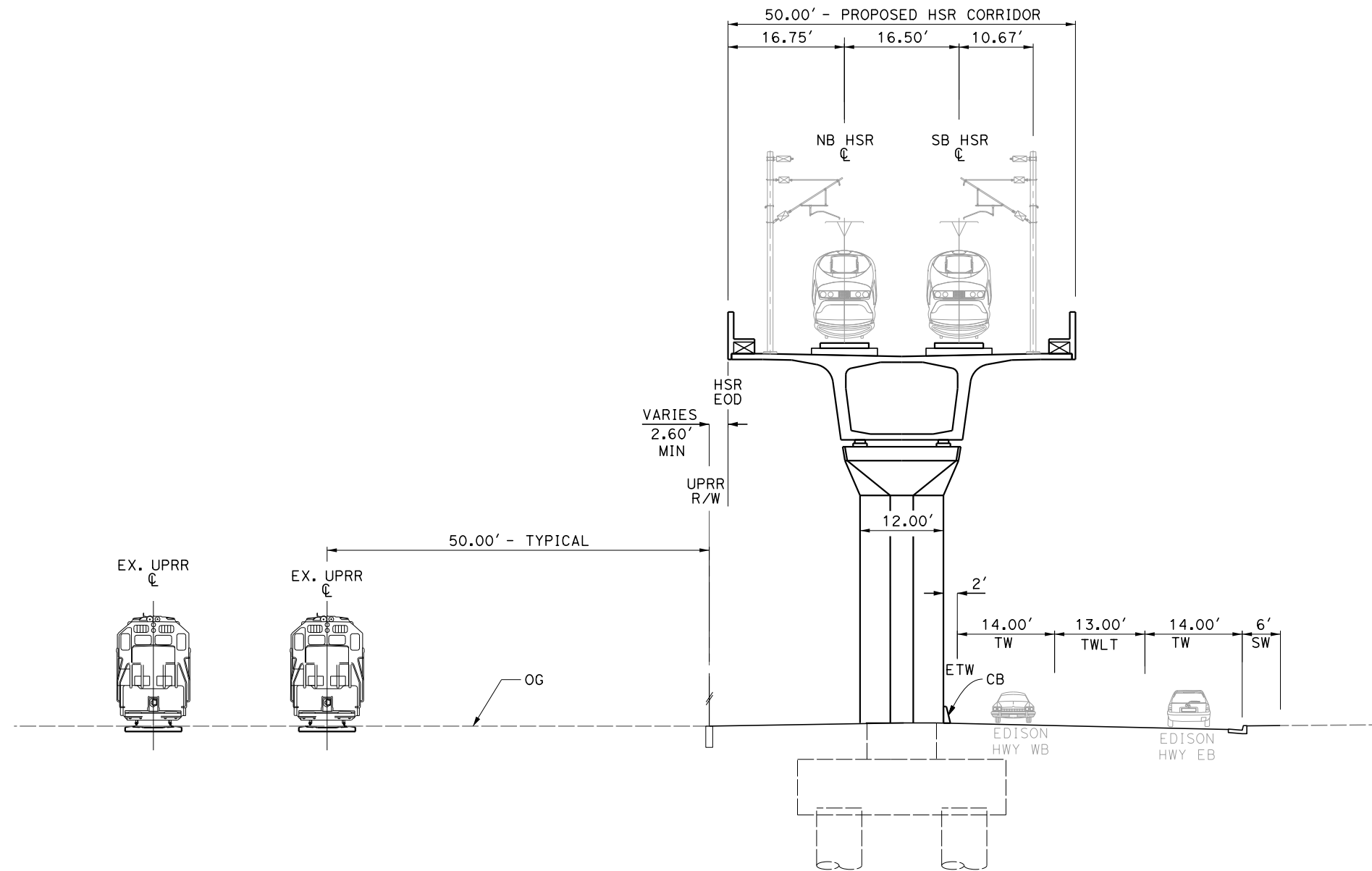
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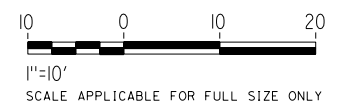
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 TYPICAL SECTIONS SHEET 13

CONTRACT NO.
HSR13-44
 DRAWING NO.
TT-B0020
 SCALE
AS SHOWN
 SHEET NO.
20

- NOTES:**
1. TRACKFORM 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 TABLE.



SECTION 19
TWIN TRACKS - ELEVATED VIADUCT - EDISON HWY RIGHT
7070+87 TO 7101+04



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
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J. TREJO
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E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

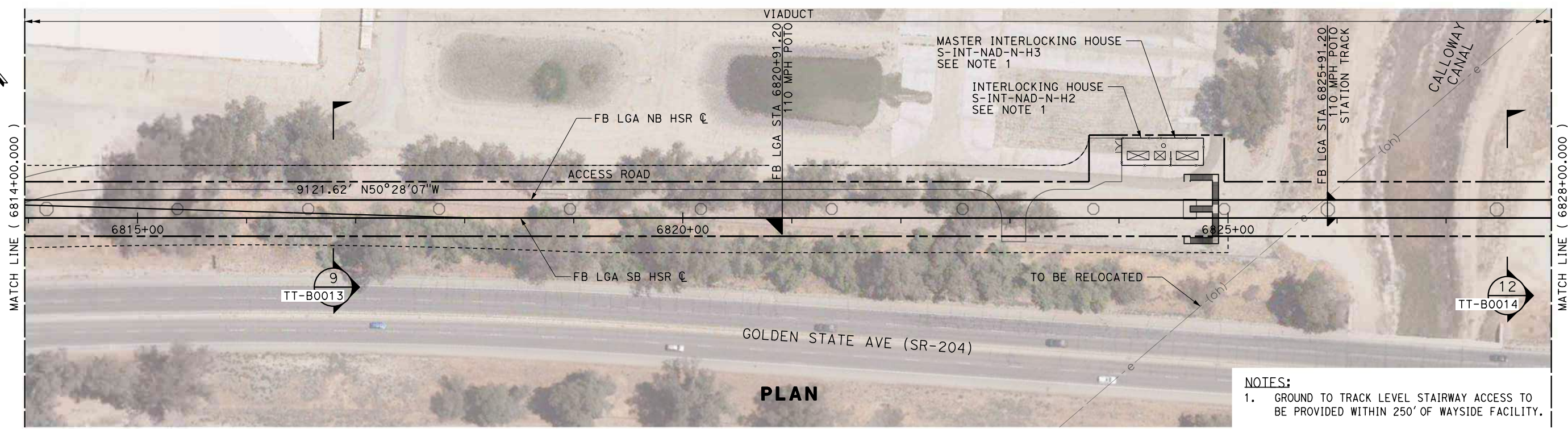
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SUBMISSION



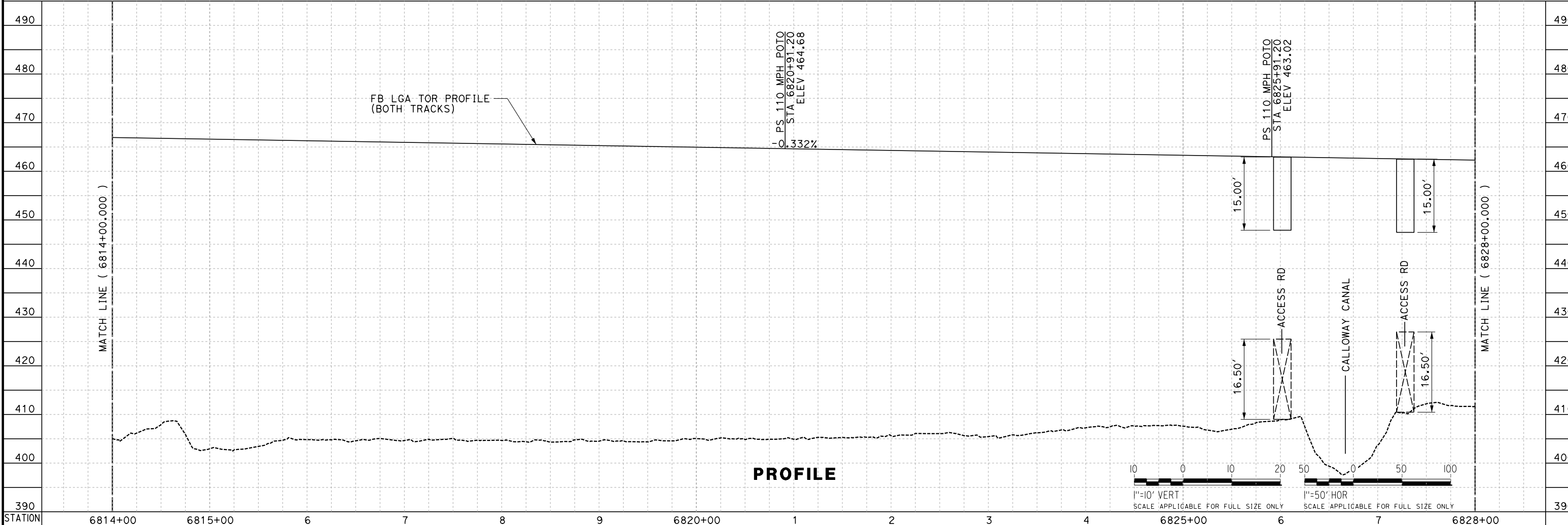
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
TYPICAL SECTIONS SHEET 14

CONTRACT NO.
HSR13-44
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 SCALE
AS SHOWN
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21

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NOTES:
 1. GROUND TO TRACK LEVEL STAIRWAY ACCESS TO BE PROVIDED WITHIN 250' OF WAYSIDE FACILITY.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
 DRAWN BY
J. TREJO
 CHECKED BY
E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

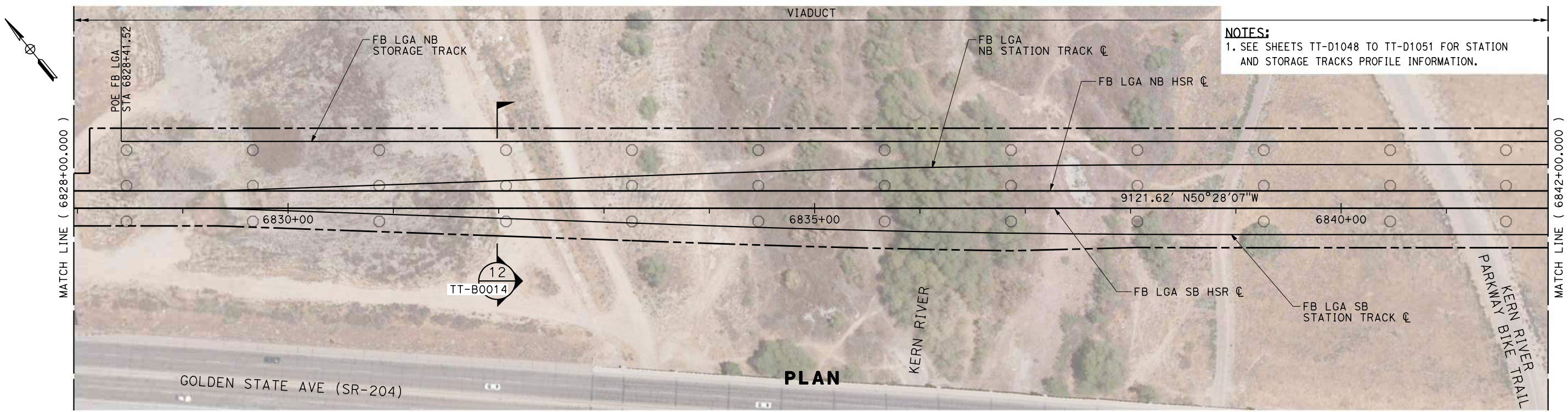
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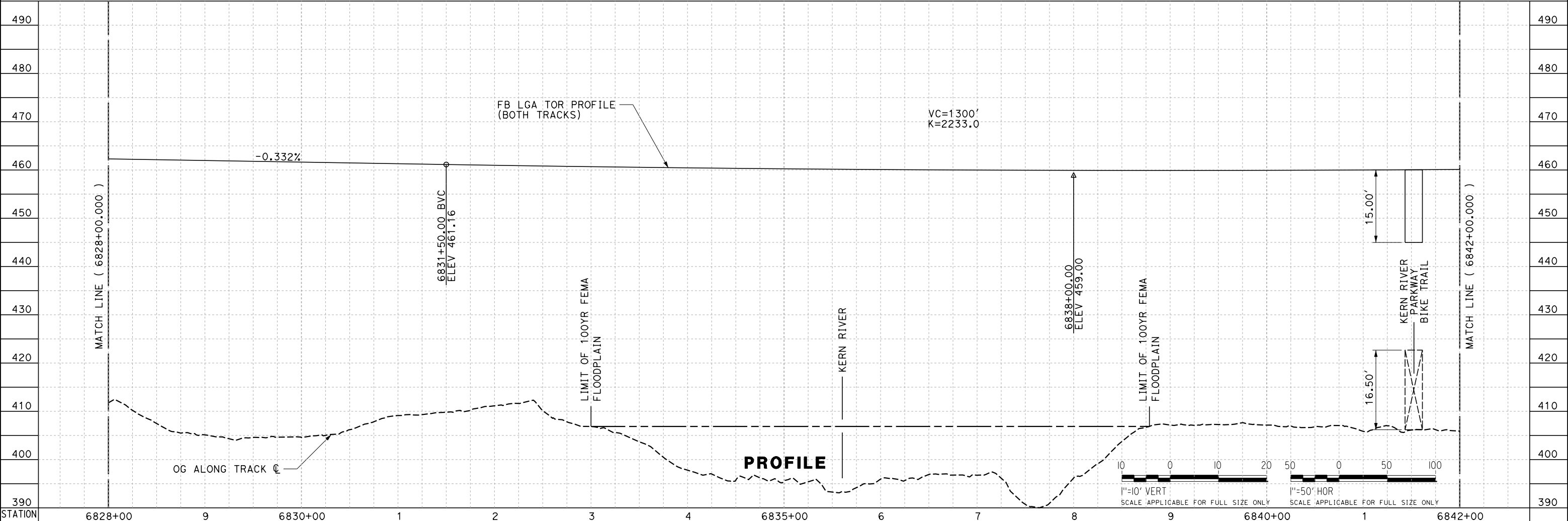
**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 STA 6814+00 TO 6828+00
 PLAN AND PROFILE

CONTRACT NO.
HSR13-44
 DRAWING NO.
TT-D1035
 SCALE
AS SHOWN
 SHEET NO.
22

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NOTES:
1. SEE SHEETS TT-D1048 TO TT-D1051 FOR STATION AND STORAGE TRACKS PROFILE INFORMATION.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO

DRAWN BY
J. TREJO

CHECKED BY
E. WINTERS

IN CHARGE
P. PIENTON

DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



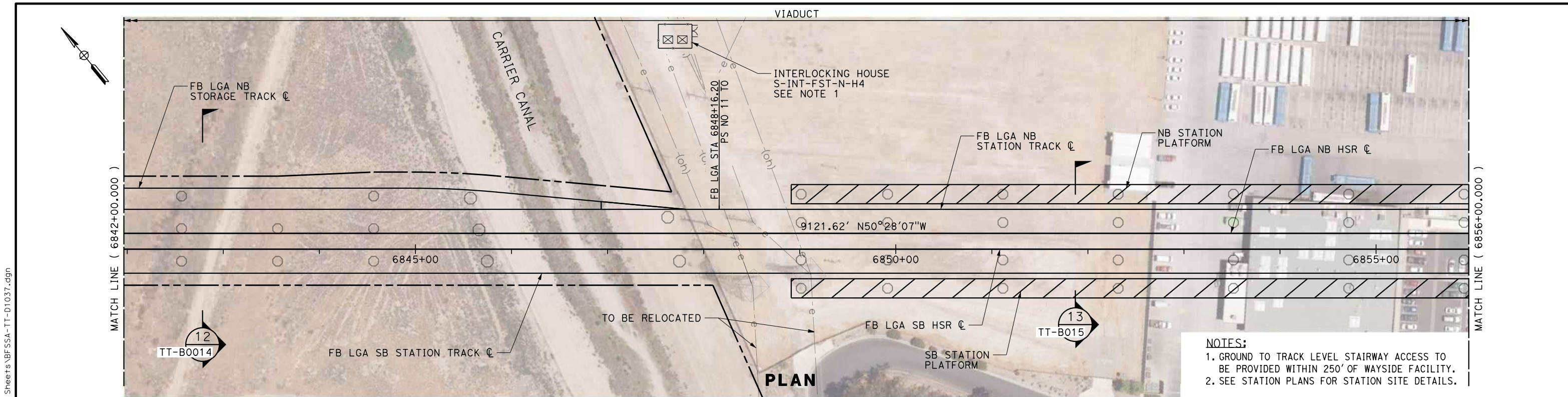
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
STA 6828+00 TO 6842+00
PLAN AND PROFILE

CONTRACT NO.
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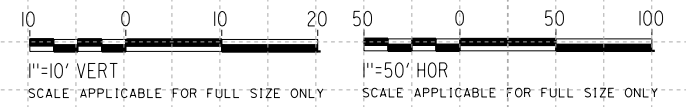
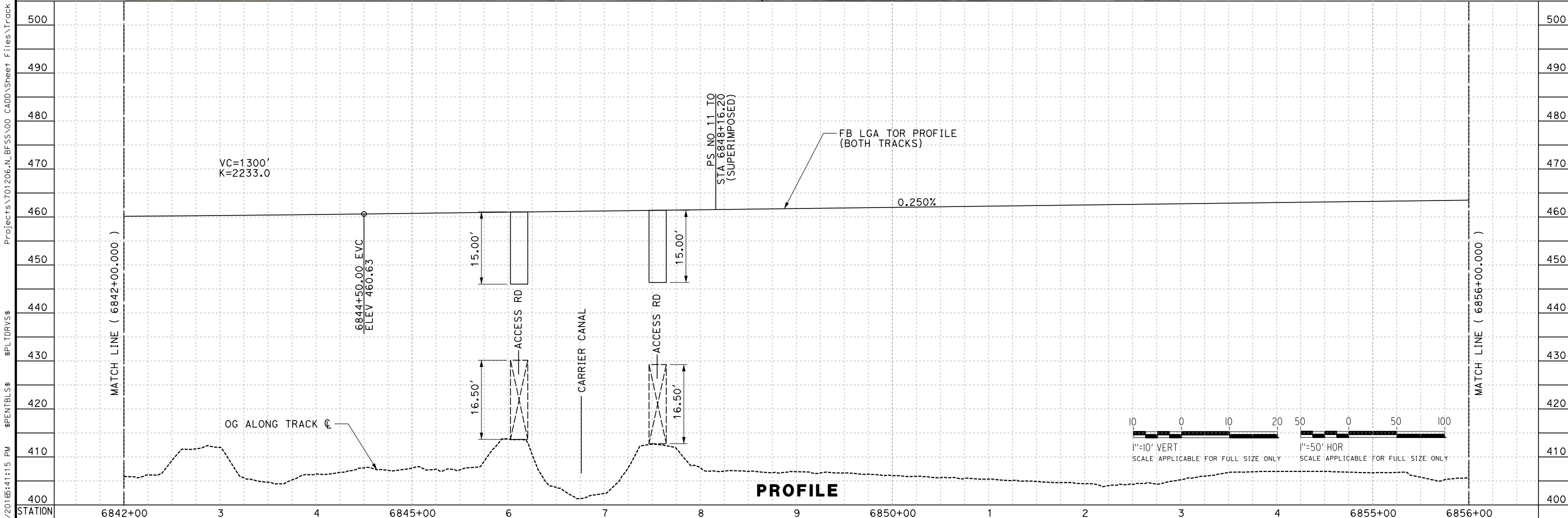
DRAWING NO.
TT-D1036

SCALE
AS SHOWN

SHEET NO.
23



NOTES:
 1. GROUND TO TRACK LEVEL STAIRWAY ACCESS TO BE PROVIDED WITHIN 250' OF WAYSIDE FACILITY.
 2. SEE STATION PLANS FOR STATION SITE DETAILS.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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J. TREJO
 CHECKED BY
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P. PIENTON
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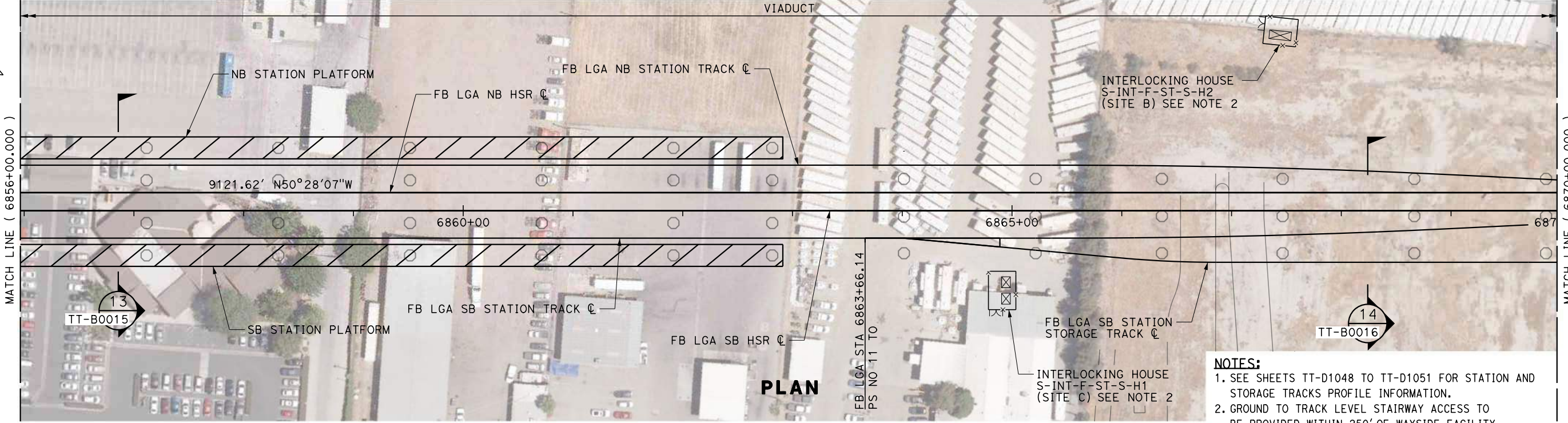
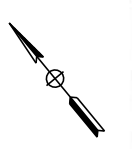
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 STA 6842+00 TO 6856+00
 PLAN AND PROFILE

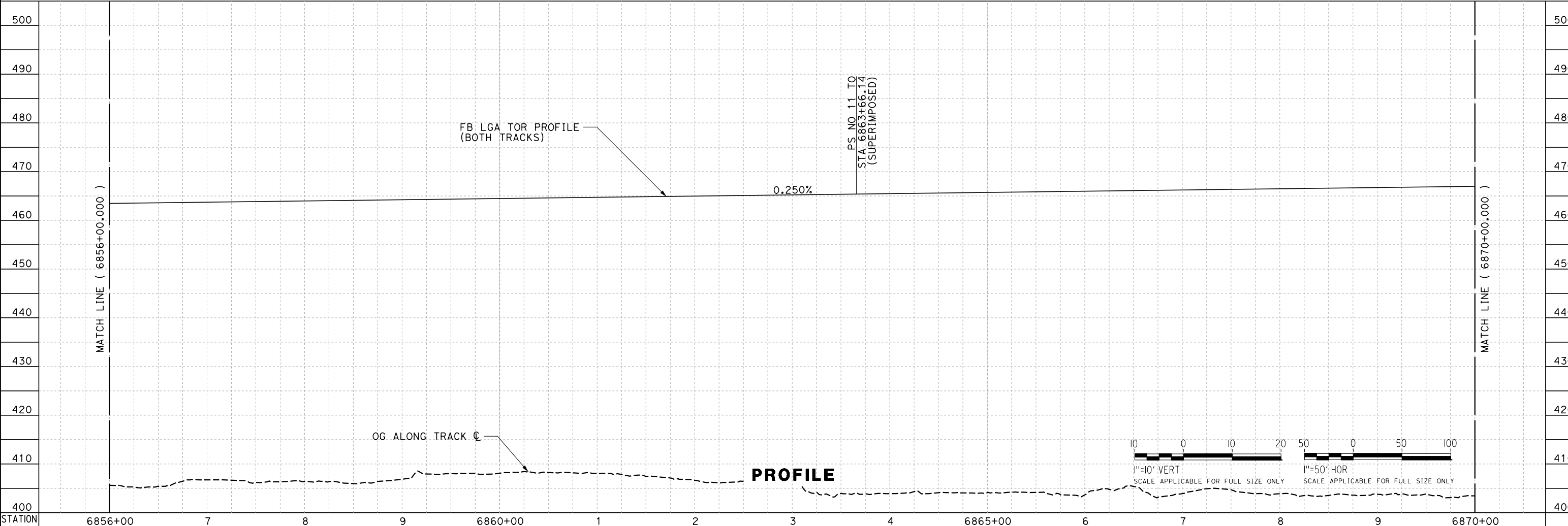
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AS SHOWN
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PLAN

- NOTES:**
1. SEE SHEETS TT-D1048 TO TT-D1051 FOR STATION AND STORAGE TRACKS PROFILE INFORMATION.
 2. GROUND TO TRACK LEVEL STAIRWAY ACCESS TO BE PROVIDED WITHIN 250' OF WAYSIDE FACILITY.



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
DRAWN BY
J. TREJO
CHECKED BY
E. WINTERS
IN CHARGE
P. PIENTON
DATE
10/28/2016

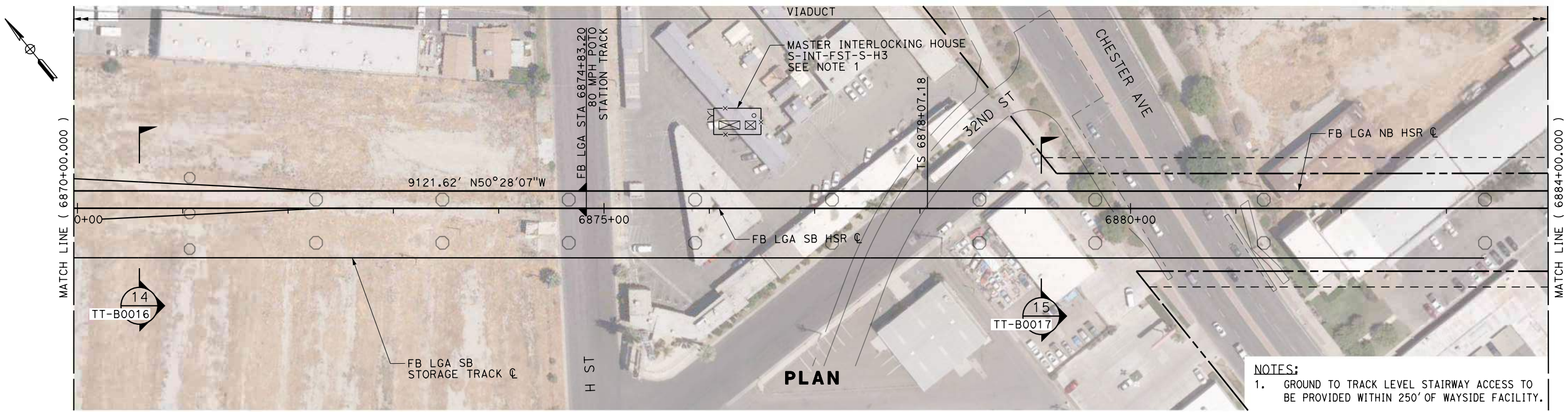
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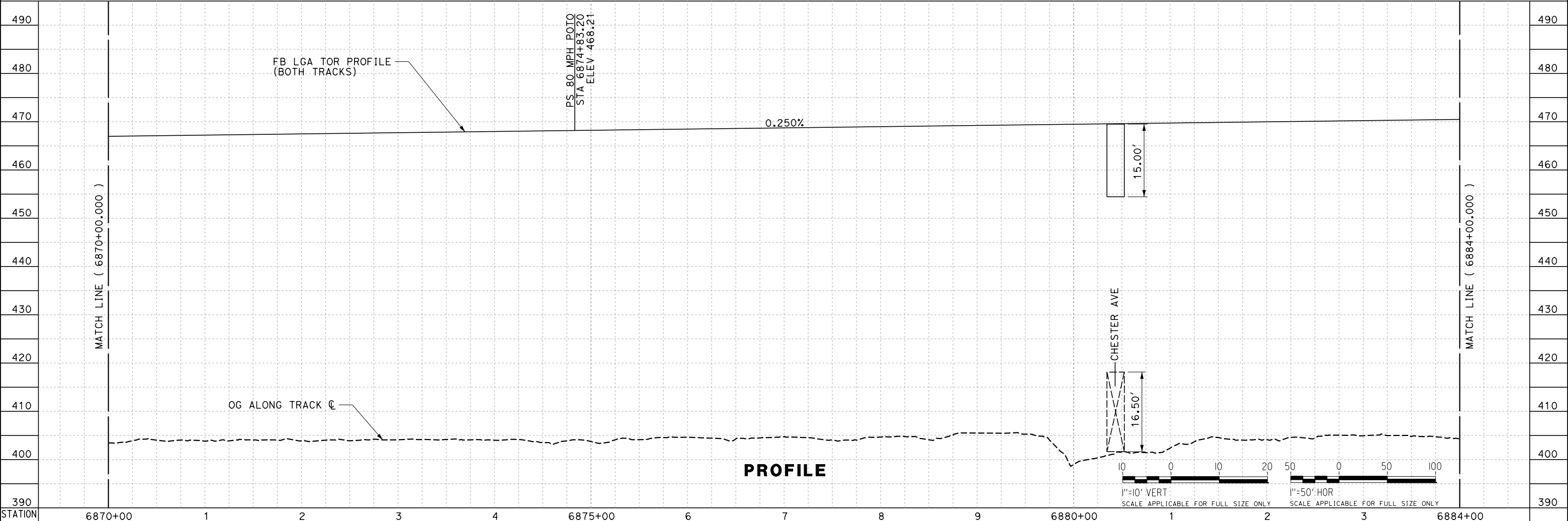
**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
STA 6856+00 TO 6870+00
PLAN AND PROFILE

CONTRACT NO.
HSR13-44
DRAWING NO.
TT-D1038
SCALE
AS SHOWN
SHEET NO.
25

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NOTES:
 1. GROUND TO TRACK LEVEL STAIRWAY ACCESS TO BE PROVIDED WITHIN 250' OF WAYSIDE FACILITY.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
 DRAWN BY
J. TREJO
 CHECKED BY
E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

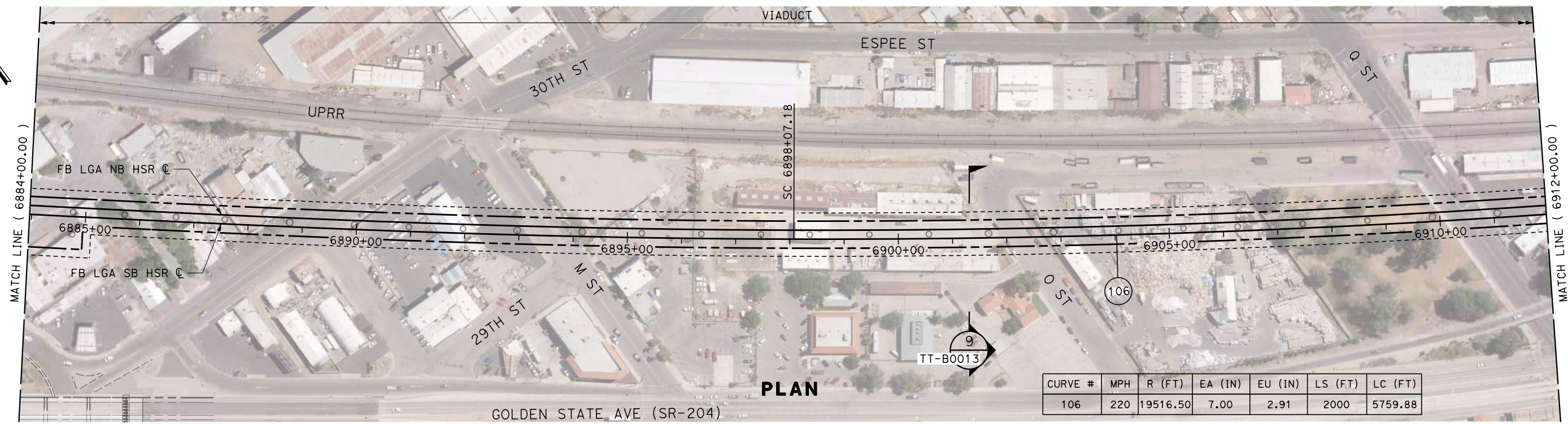
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 PEPP DESIGN
 SUBMISSION**



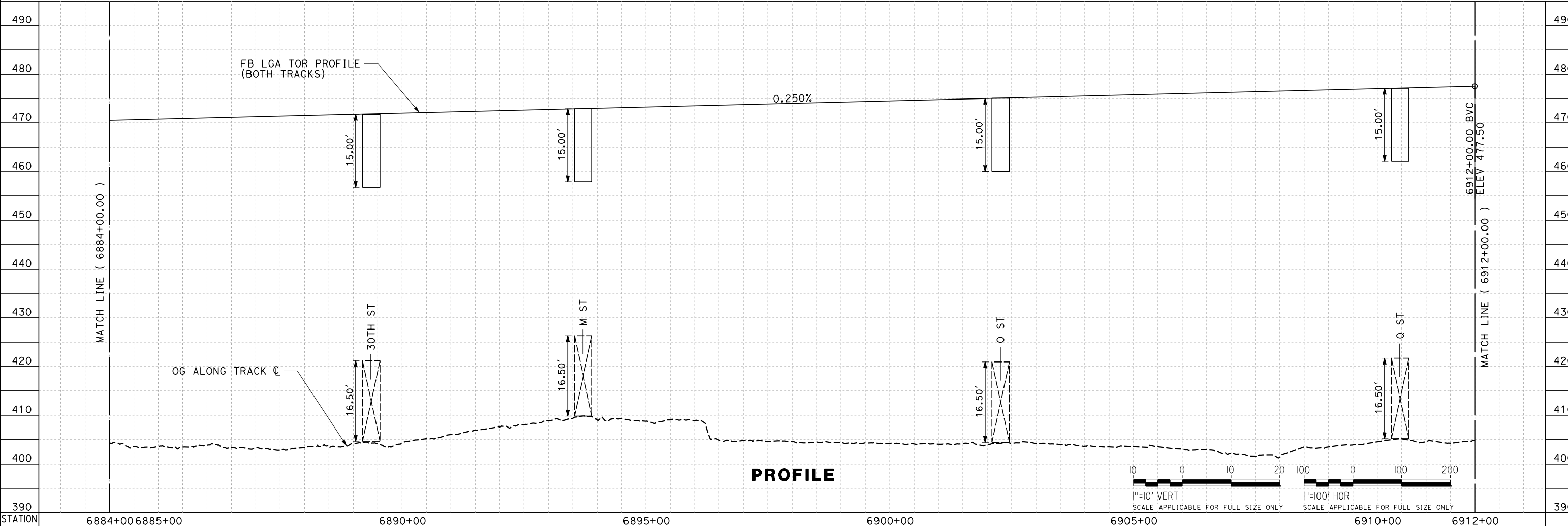
**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 STA 6870+00 TO 6884+00
 PLAN AND PROFILE

CONTRACT NO.
HSR13-44
 DRAWING NO.
TT-D1039
 SCALE
AS SHOWN
 SHEET NO.
26

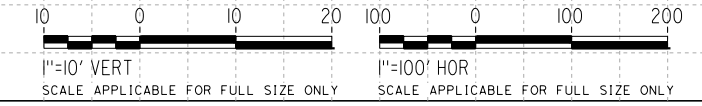
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PLAN



PROFILE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
DRAWN BY
J. TREJO
CHECKED BY
E. WINTERS
IN CHARGE
P. PIENTON
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**

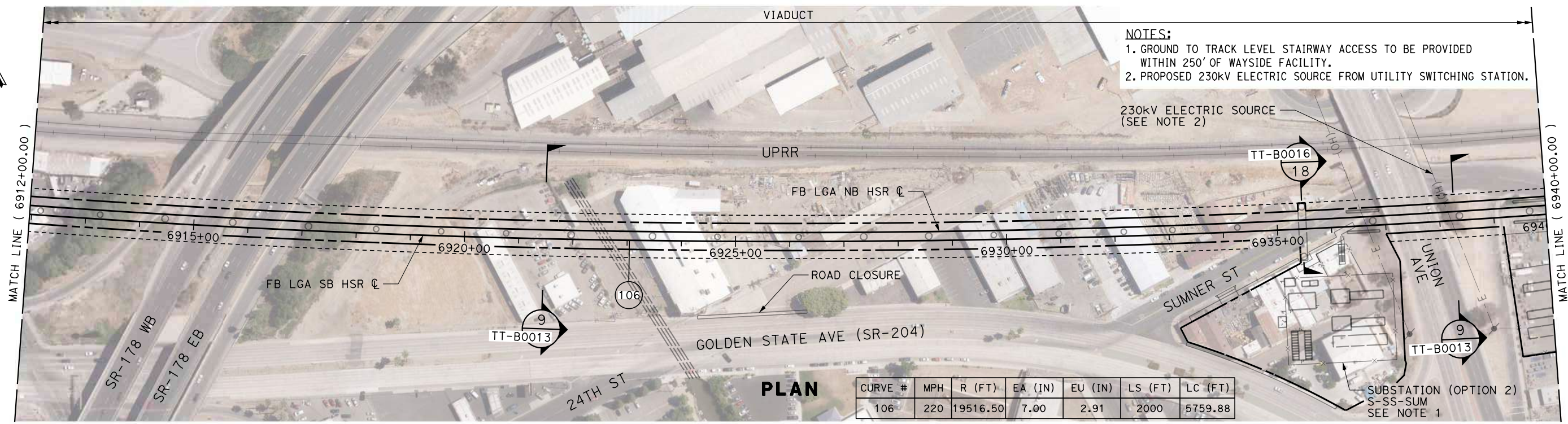
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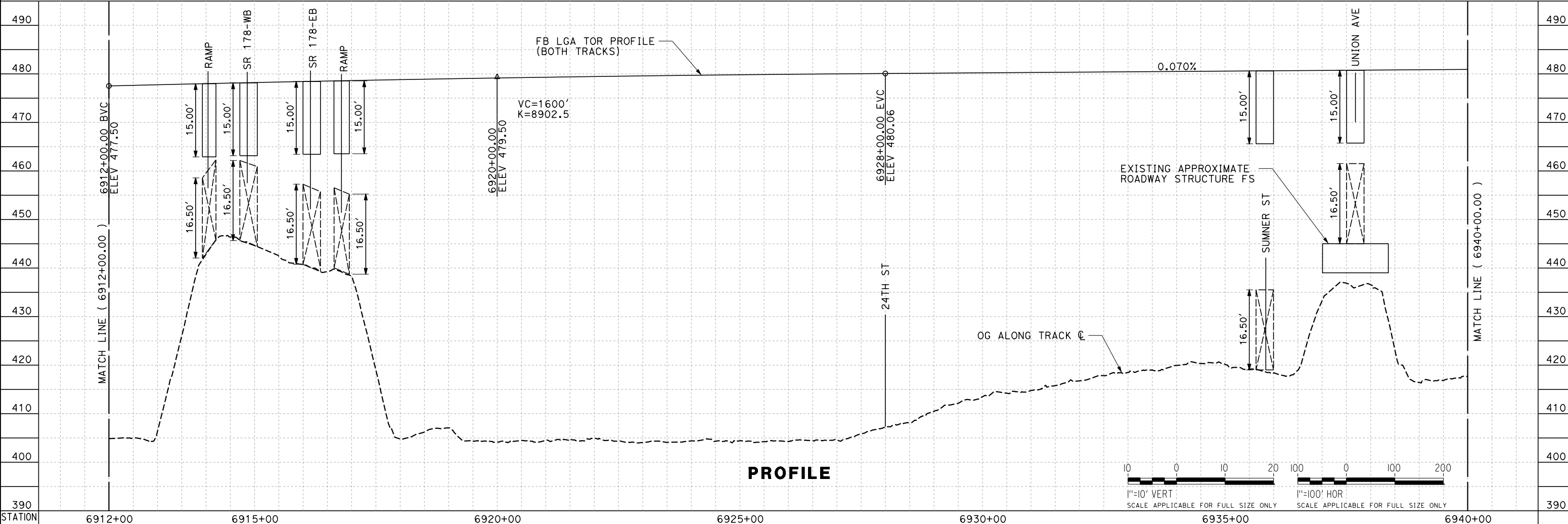
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FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
STA 6884+00 TO 6912+00
PLAN AND PROFILE

CONTRACT NO.
HSR13-44
DRAWING NO.
TT-D1040
SCALE
AS SHOWN
SHEET NO.
27

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
DRAWN BY
J. TREJO
CHECKED BY
E. WINTERS
IN CHARGE
P. PIENTON
DATE
10/28/2016

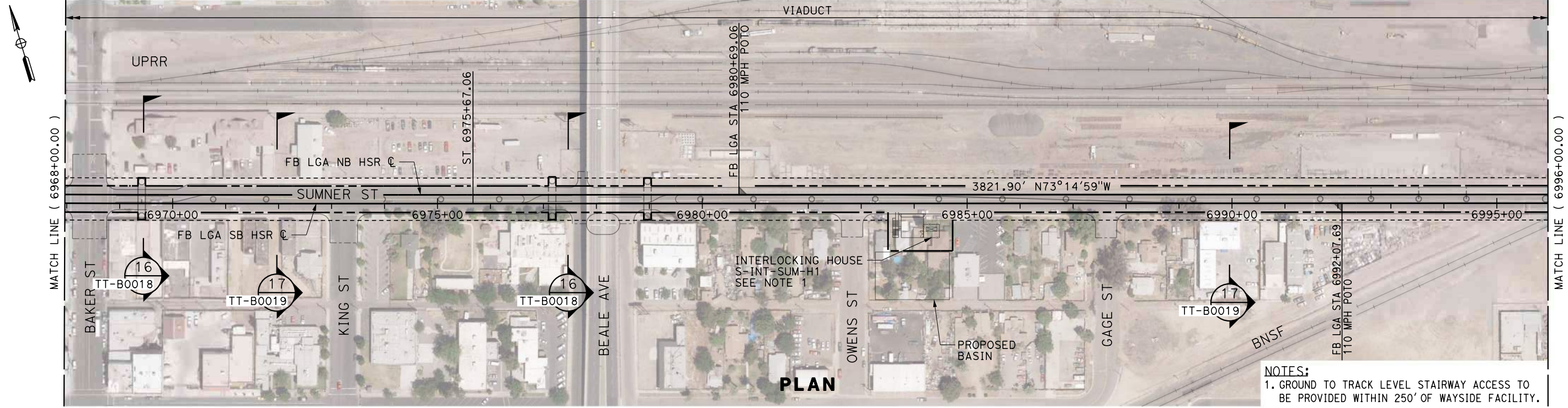
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PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
STA 6912+00 TO 6940+00
PLAN AND PROFILE

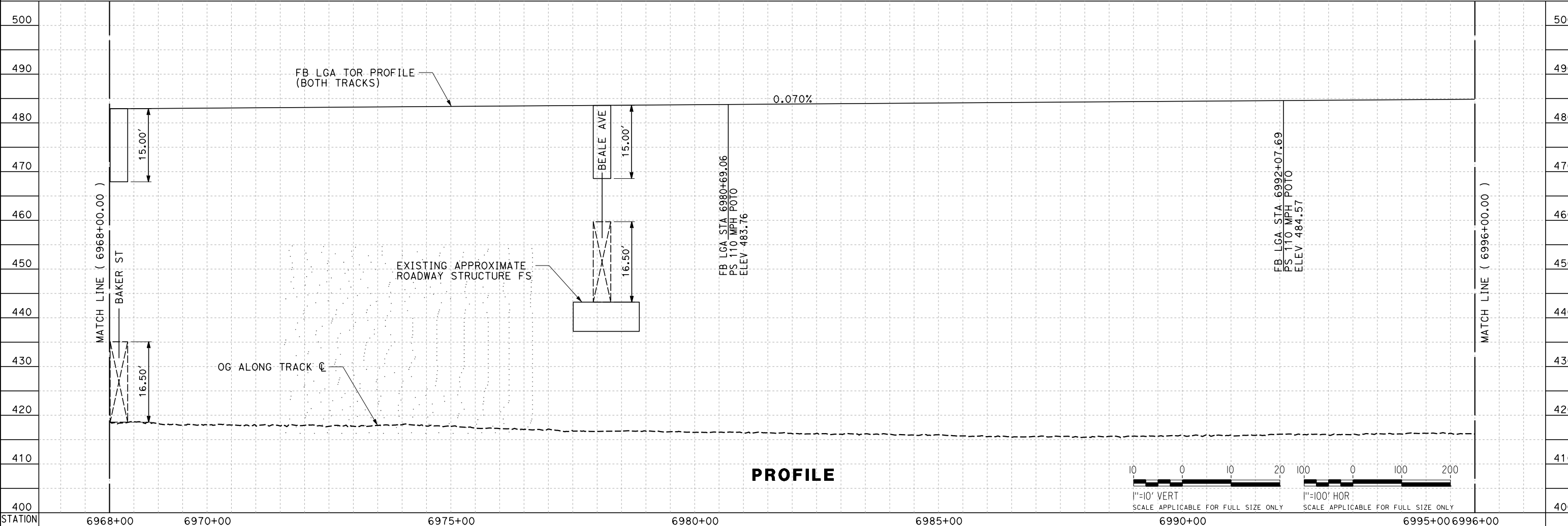
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HSR13-44
DRAWING NO.
TT-D1041
SCALE
AS SHOWN
SHEET NO.
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PLAN

NOTES:
 1. GROUND TO TRACK LEVEL STAIRWAY ACCESS TO BE PROVIDED WITHIN 250' OF WAYSIDE FACILITY.



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
 DRAWN BY
J. TREJO
 CHECKED BY
E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

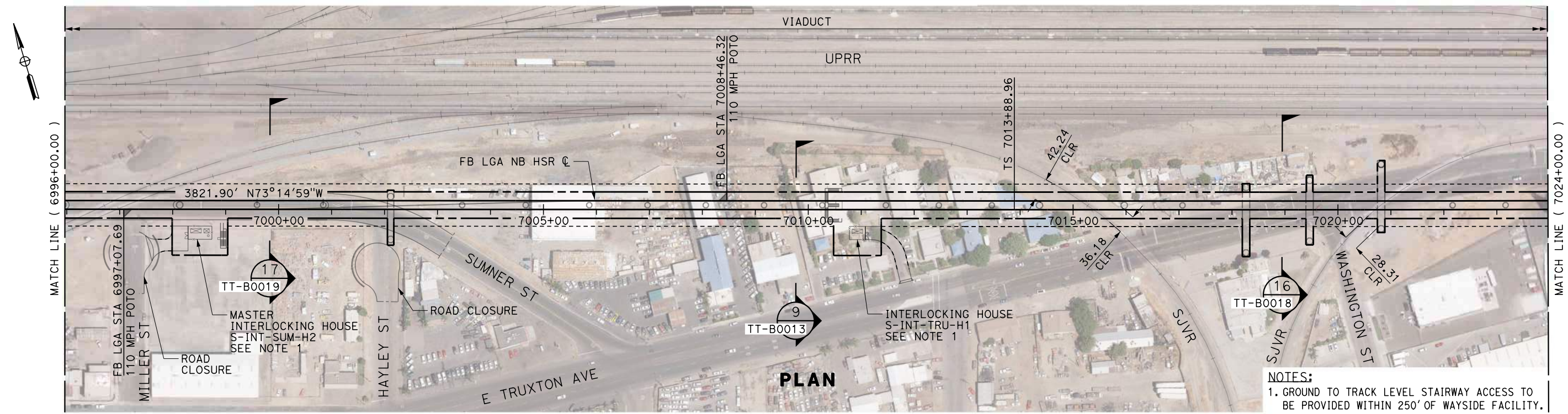
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 SUBMISSION**



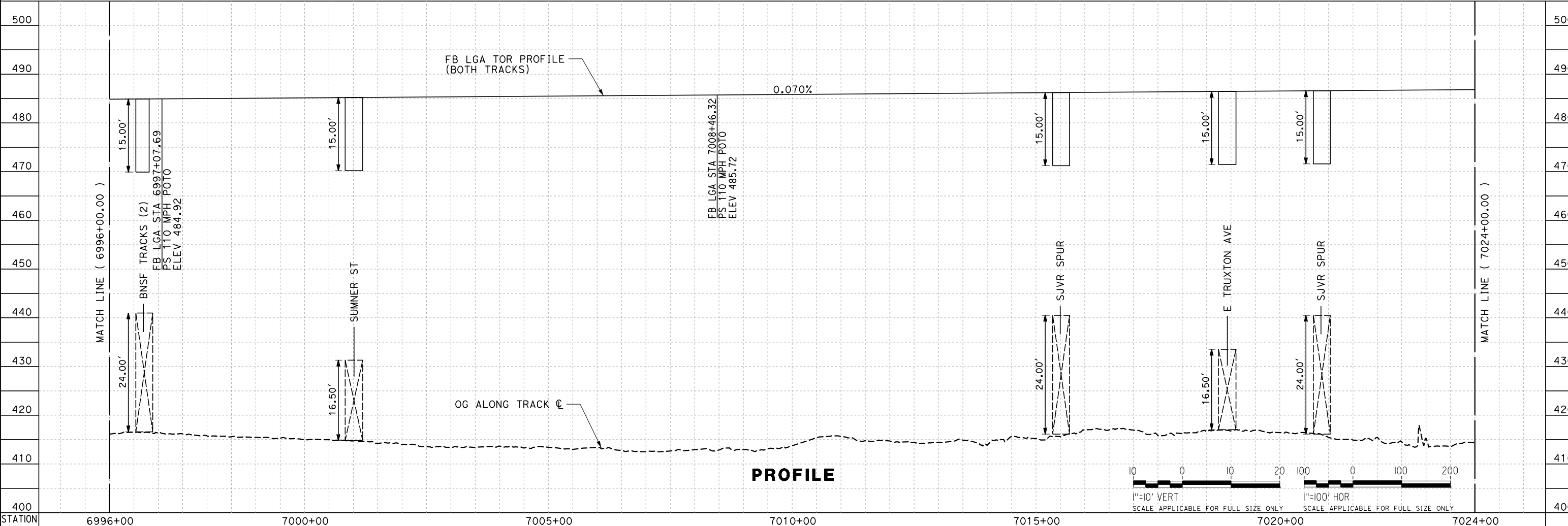
**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 STA 6968+00 TO 6996+00
 PLAN AND PROFILE

CONTRACT NO.
HSR13-44
 DRAWING NO.
TT-D1043
 SCALE
AS SHOWN
 SHEET NO.
30

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NOTES:
 1. GROUND TO TRACK LEVEL STAIRWAY ACCESS TO BE PROVIDED WITHIN 250' OF WAYSIDE FACILITY.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
 DRAWN BY
J. TREJO
 CHECKED BY
E. WINTERS
 IN CHARGE
P. PIENTON
 DATE
10/28/2016

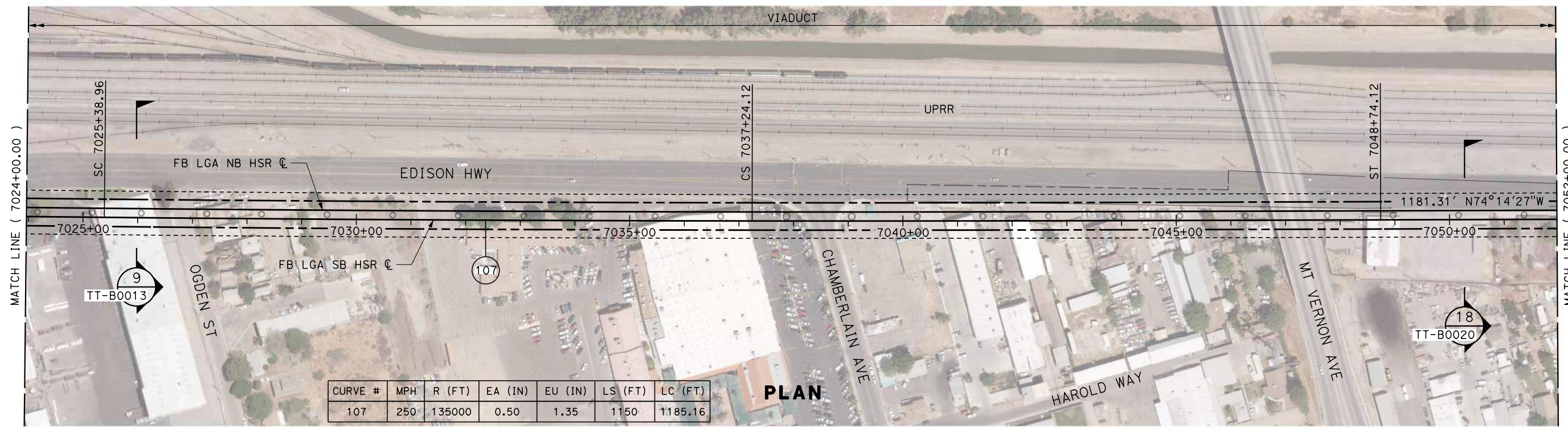
**RECORD SET
 PECD DESIGN
 SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 TRACK GUIDEWAY
 STA 6996+00 TO 7024+00
 PLAN AND PROFILE

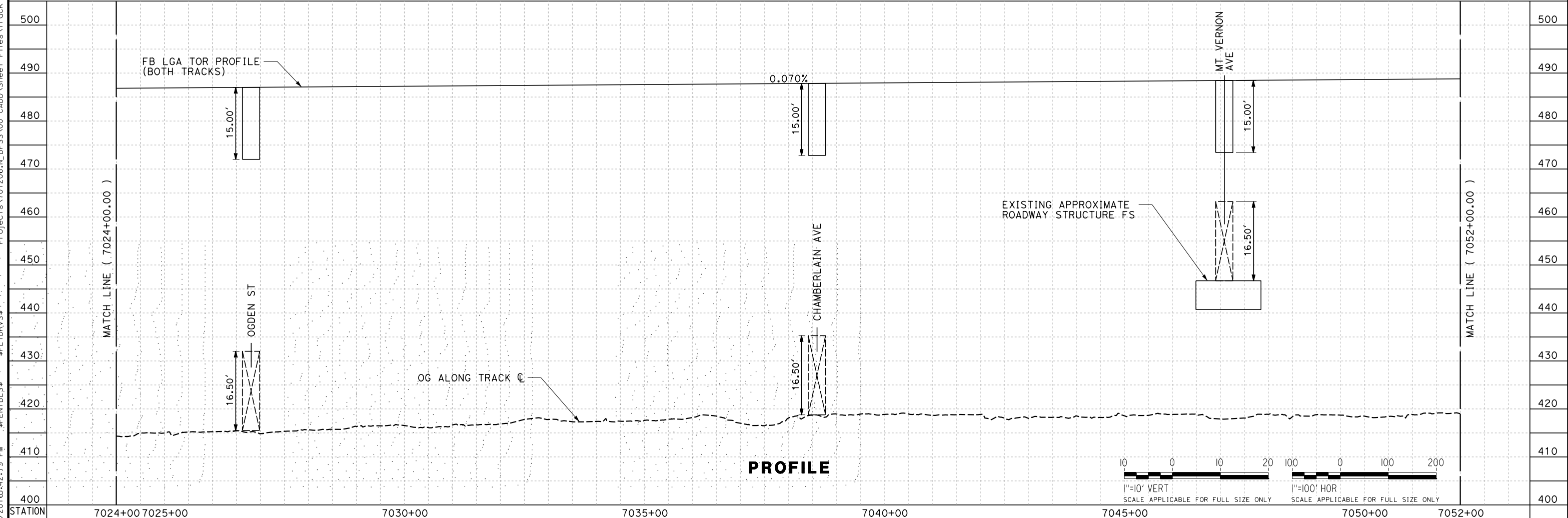
CONTRACT NO.
HSR13-44
 DRAWING NO.
TT-D1044
 SCALE
AS SHOWN
 SHEET NO.
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TYL\jtrejo 10/26/2016 5:42:13 PM \$PENTBL\$.S\$ \$PLTDRVS\$. Projects\701206.N_BFSS\00_CADD\Sheet_Files\Track_Sheets\BFSSA-TT-D1045.dgn



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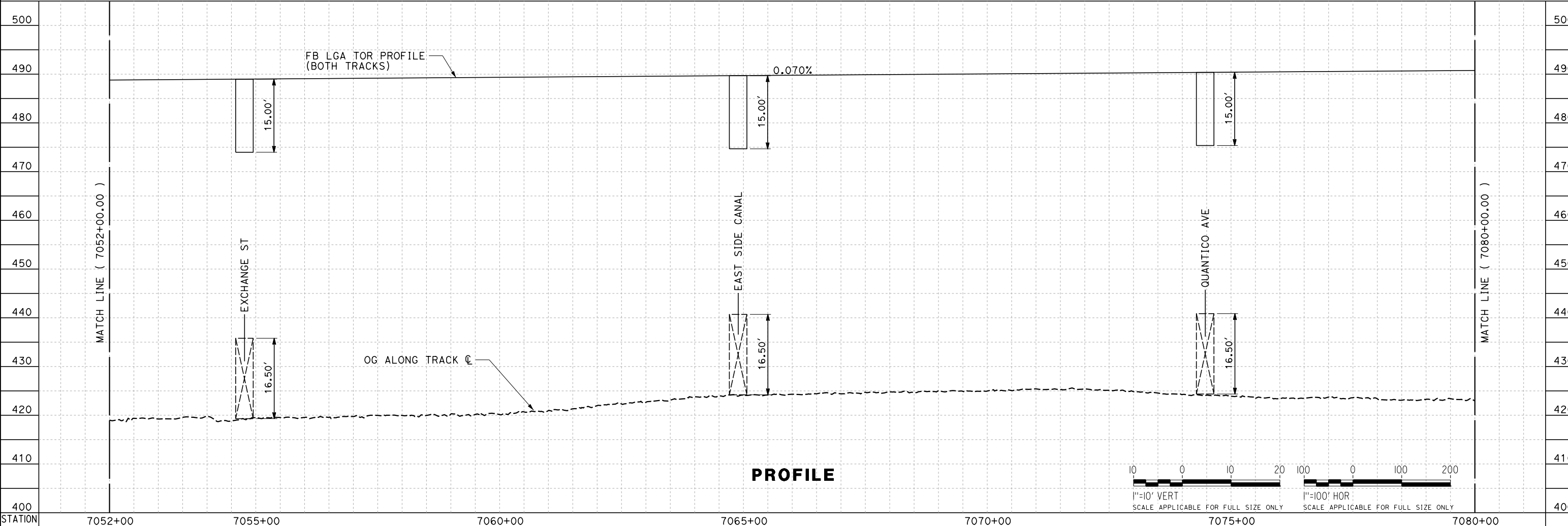
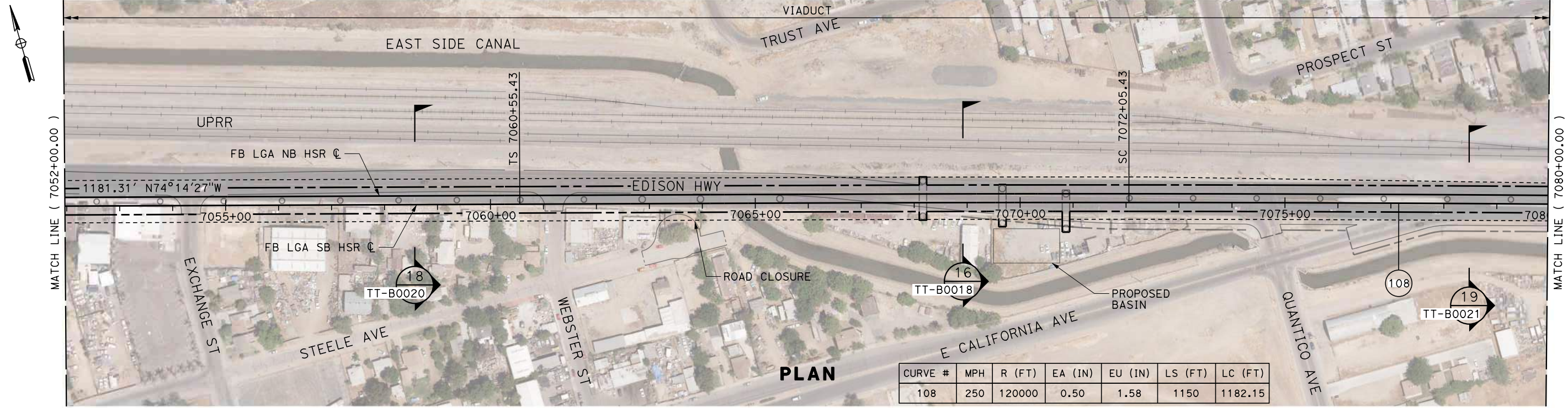
PLAN



PROFILE

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>CHK</th> <th>APP</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV	DATE	BY	CHK	APP	DESCRIPTION							<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY J. TREJO</td> </tr> <tr> <td>DRAWN BY J. TREJO</td> </tr> <tr> <td>CHECKED BY E. WINTERS</td> </tr> <tr> <td>IN CHARGE P. PIENTON</td> </tr> <tr> <td>DATE 10/28/2016</td> </tr> </table>	DESIGNED BY J. TREJO	DRAWN BY J. TREJO	CHECKED BY E. WINTERS	IN CHARGE P. PIENTON	DATE 10/28/2016	<p>RECORD SET PEPD DESIGN SUBMISSION</p>	<p>TYLININTERNATIONAL</p>	<p>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</p>	<p>CALIFORNIA HIGH-SPEED RAIL PROJECT FRESNO TO BAKERSFIELD LOCALLY GENERATED ALTERNATIVE TRACK GUIDEWAY STA 7024+00 TO 7052+00 PLAN AND PROFILE</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>CONTRACT NO. HSR13-44</td> </tr> <tr> <td>DRAWING NO. TT-D1045</td> </tr> <tr> <td>SCALE AS SHOWN</td> </tr> <tr> <td>SHEET NO. 32</td> </tr> </table>	CONTRACT NO. HSR13-44	DRAWING NO. TT-D1045	SCALE AS SHOWN	SHEET NO. 32
REV	DATE	BY	CHK	APP	DESCRIPTION																						
DESIGNED BY J. TREJO																											
DRAWN BY J. TREJO																											
CHECKED BY E. WINTERS																											
IN CHARGE P. PIENTON																											
DATE 10/28/2016																											
CONTRACT NO. HSR13-44																											
DRAWING NO. TT-D1045																											
SCALE AS SHOWN																											
SHEET NO. 32																											

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
DRAWN BY
J. TREJO
CHECKED BY
E. WINTERS
IN CHARGE
P. PIENTON
DATE
10/28/2016

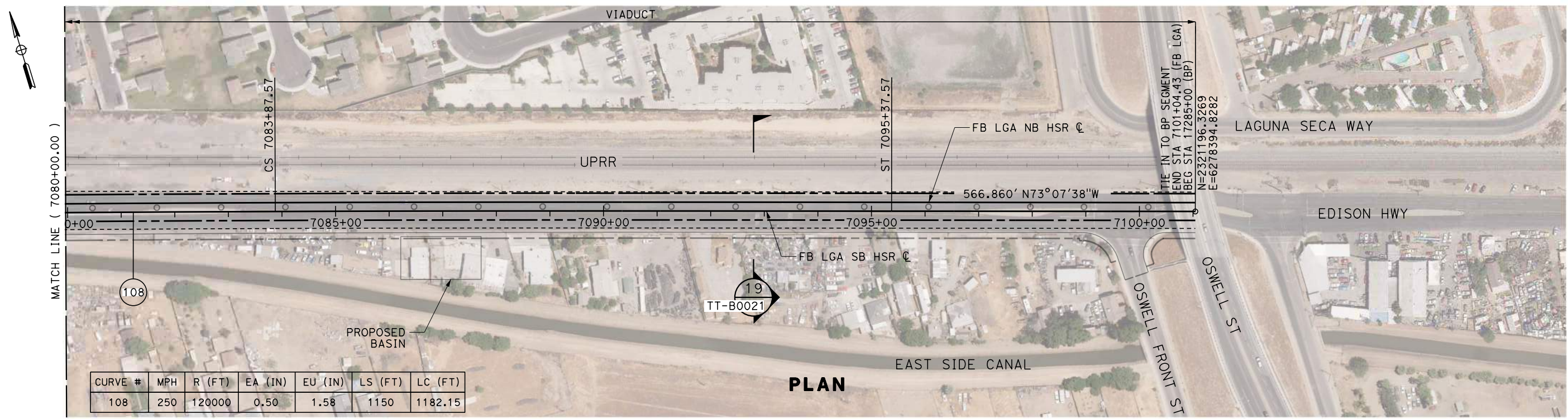
**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
STA 7052+00 TO 7080+00
PLAN AND PROFILE

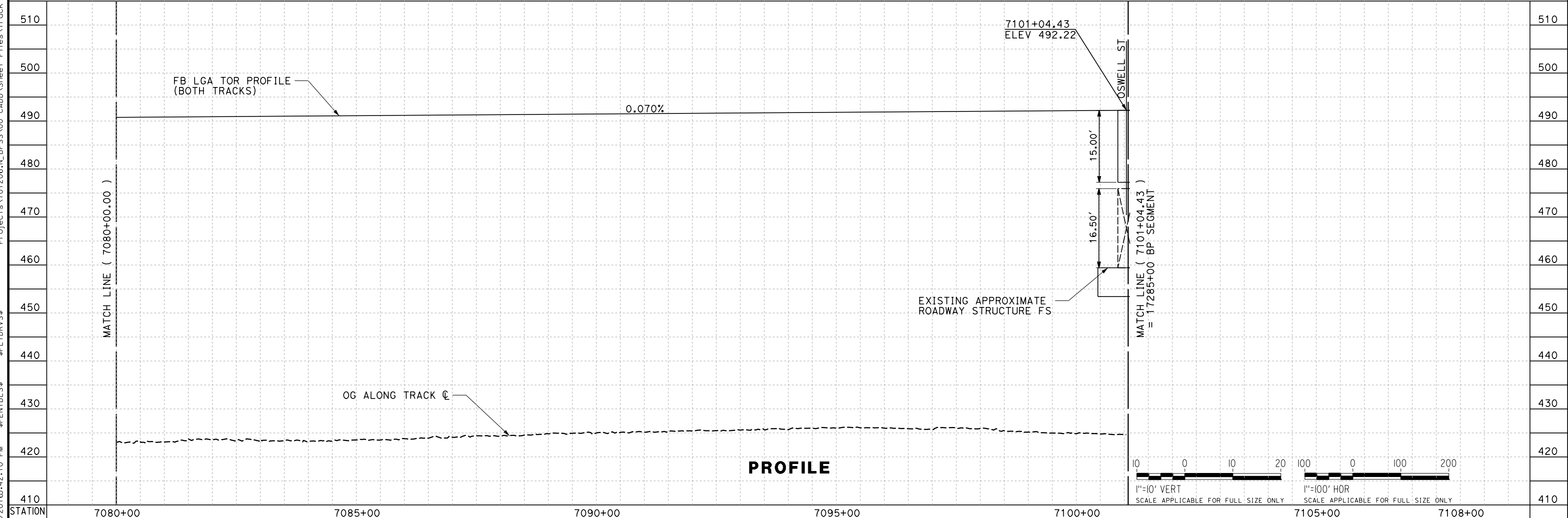
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HSR13-44
DRAWING NO.
TT-D1046
SCALE
AS SHOWN
SHEET NO.
33

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CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
108	250	120000	0.50	1.58	1150	1182.15

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
DRAWN BY
J. TREJO
CHECKED BY
E. WINTERS
IN CHARGE
P. PIENTON
DATE
10/28/2016

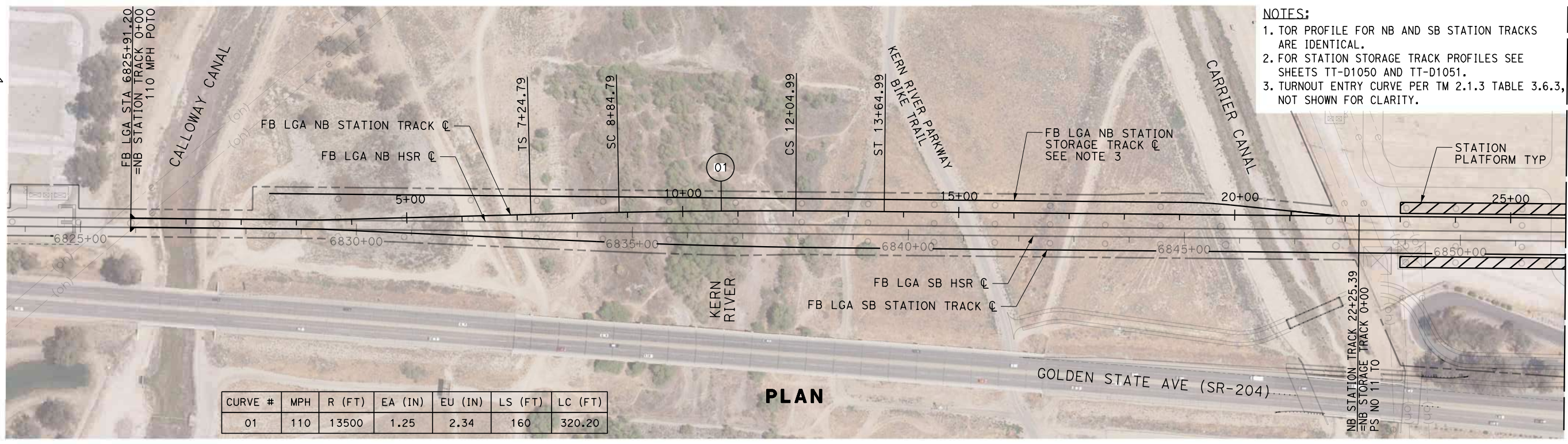
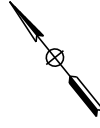
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PEPD DESIGN
SUBMISSION**



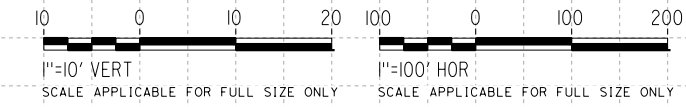
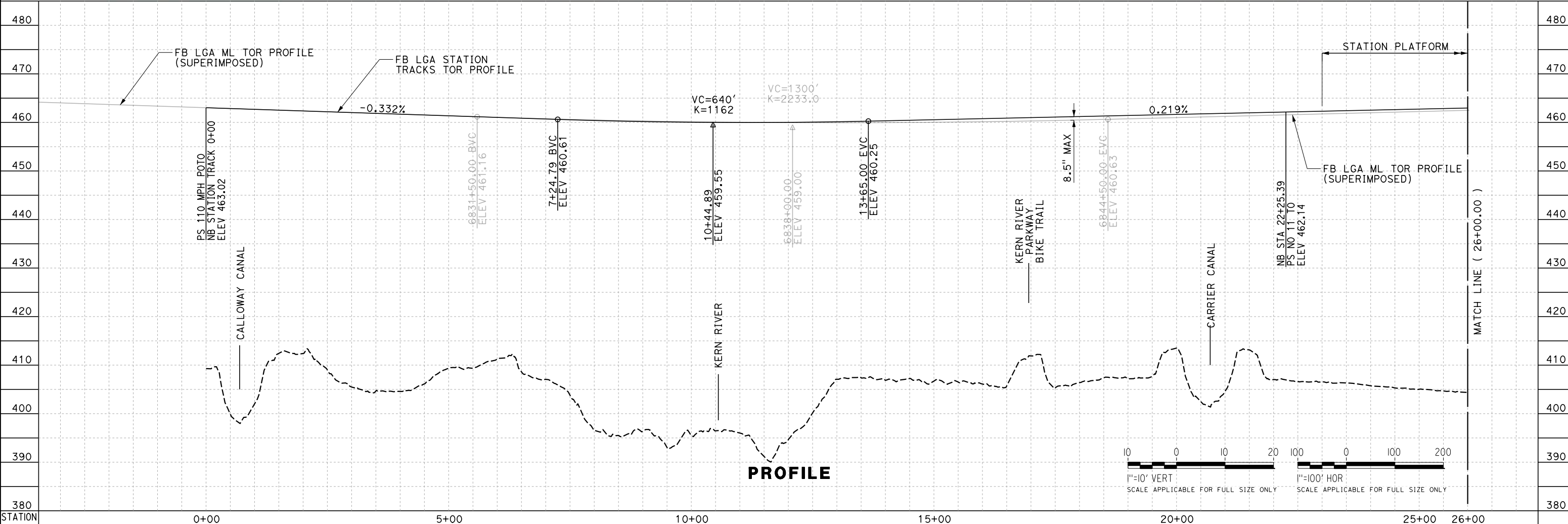
**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
STA 7080+00 TO 7101+04
PLAN AND PROFILE

CONTRACT NO.
HSR13-44
DRAWING NO.
TT-D1047
SCALE
AS SHOWN
SHEET NO.
34

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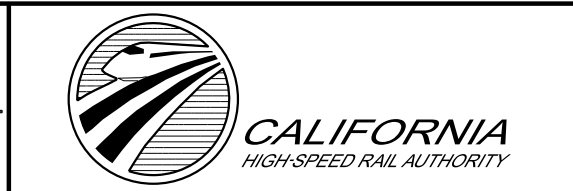
- NOTES:**
1. TOR PROFILE FOR NB AND SB STATION TRACKS ARE IDENTICAL.
 2. FOR STATION STORAGE TRACK PROFILES SEE SHEETS TT-D1050 AND TT-D1051.
 3. TURNOUT ENTRY CURVE PER TM 2.1.3 TABLE 3.6.3, NOT SHOWN FOR CLARITY.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
DRAWN BY
J. TREJO
CHECKED BY
E. WINTERS
IN CHARGE
P. PIENTON
DATE
10/28/2016

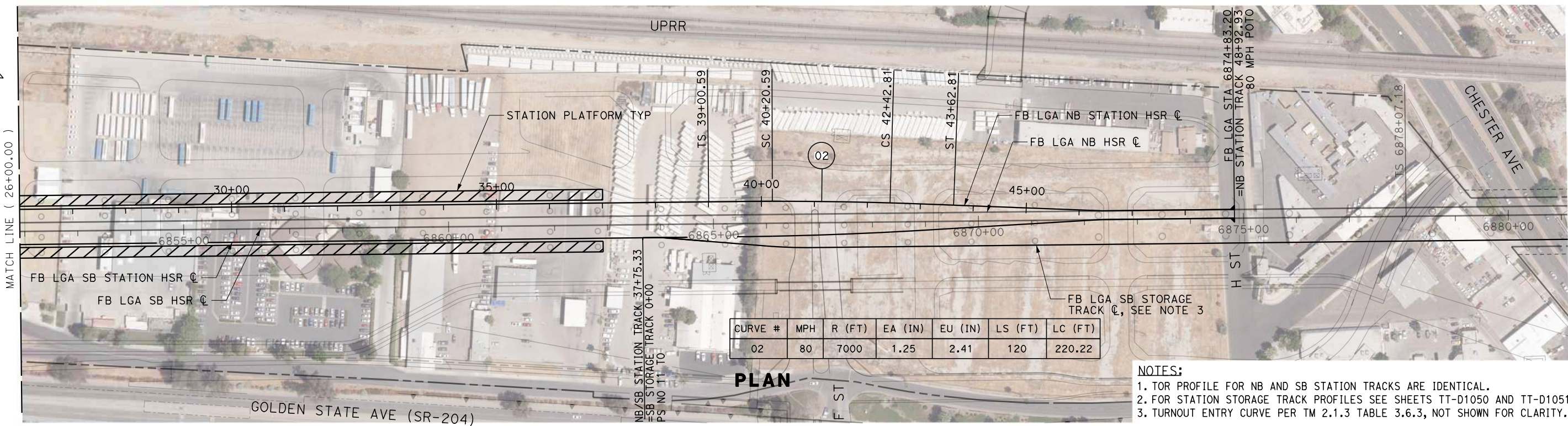
**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY - STATION TRACKS
STA 0+00 TO 26+00
PLAN AND PROFILE

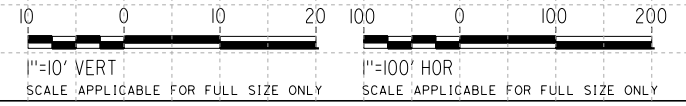
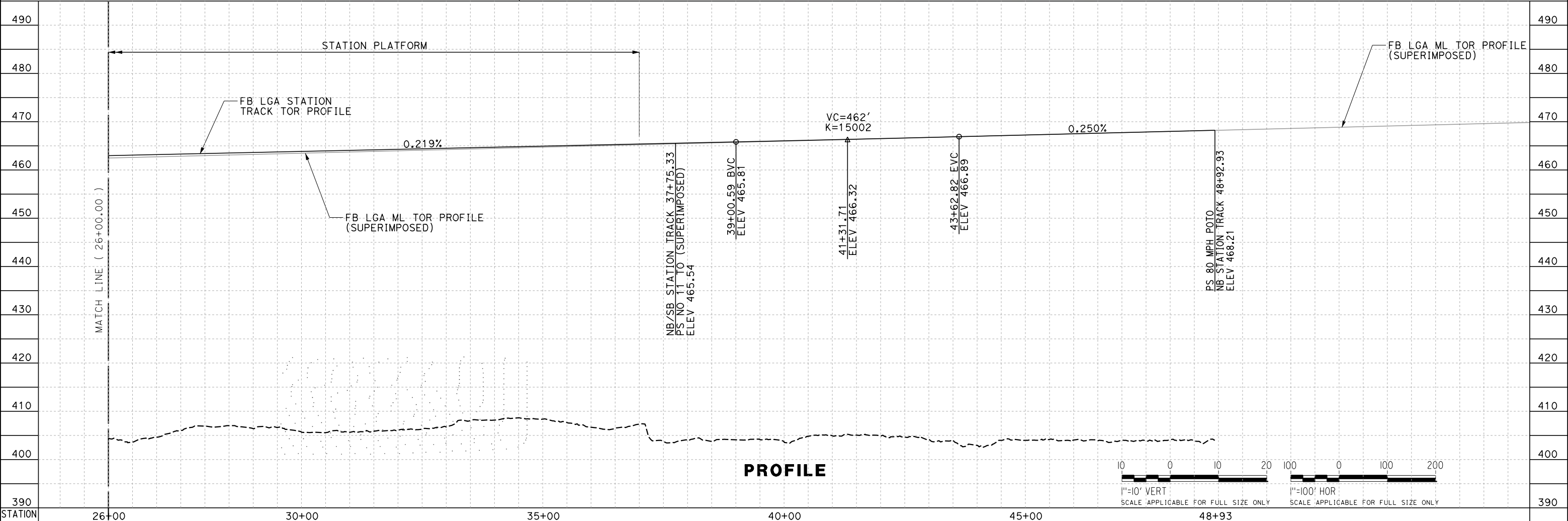
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HSR13-44
DRAWING NO.
TT-D1048
SCALE
AS SHOWN
SHEET NO.
35

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CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
02	80	7000	1.25	2.41	120	220.22

- NOTES:**
1. TOR PROFILE FOR NB AND SB STATION TRACKS ARE IDENTICAL.
 2. FOR STATION STORAGE TRACK PROFILES SEE SHEETS TT-D1050 AND TT-D1051.
 3. TURNOUT ENTRY CURVE PER TM 2.1.3 TABLE 3.6.3, NOT SHOWN FOR CLARITY.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
DRAWN BY
J. TREJO
CHECKED BY
E. WINTERS
IN CHARGE
P. PIENTON
DATE
10/28/2016

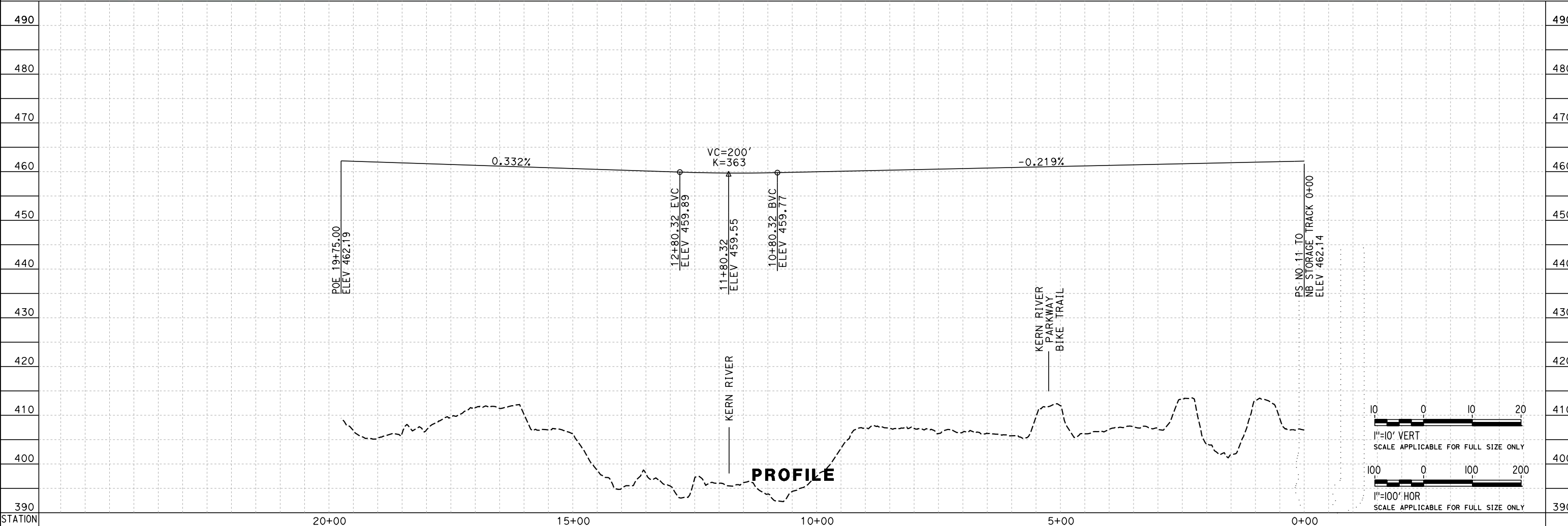
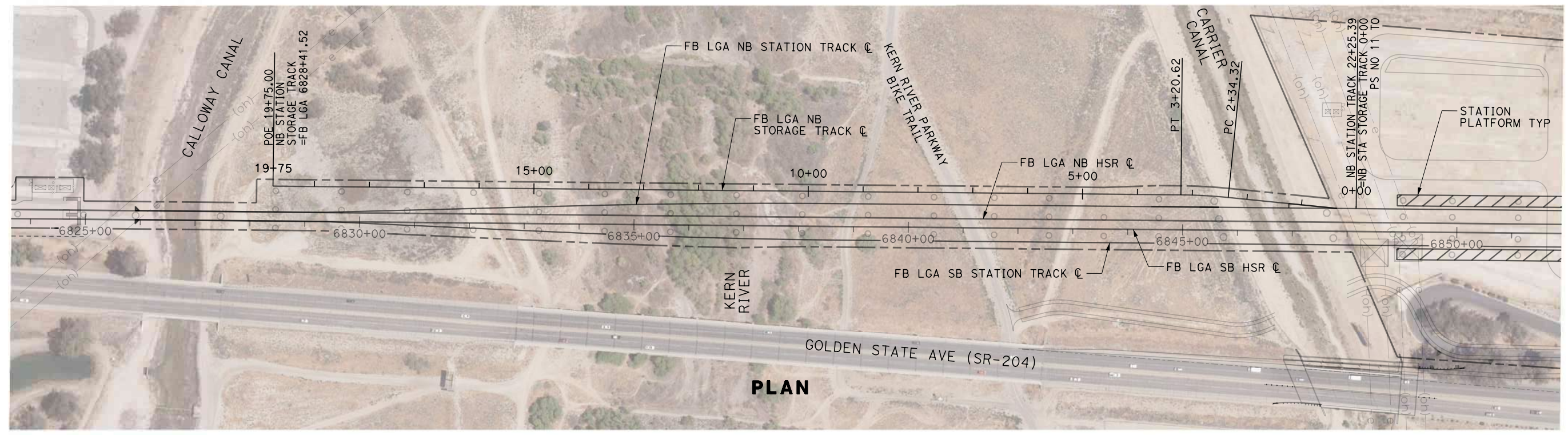
**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY - STATION TRACKS
STA 26+00 TO 48+92
PLAN AND PROFILE

CONTRACT NO.
HSR13-44
DRAWING NO.
TT-D1049
SCALE
AS SHOWN
SHEET NO.
36

TYL\jtrejo 10/26/2016 4:42:58 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206_N_BFSS\00_CADD\Sheet Files\Track Sheets\BFSSA-TT-D1050.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
DRAWN BY
J. TREJO
CHECKED BY
E. WINTERS
IN CHARGE
P. PIENTON
DATE
10/28/2016

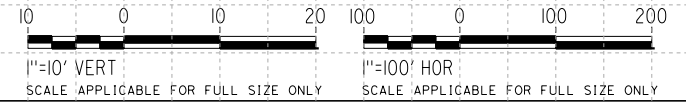
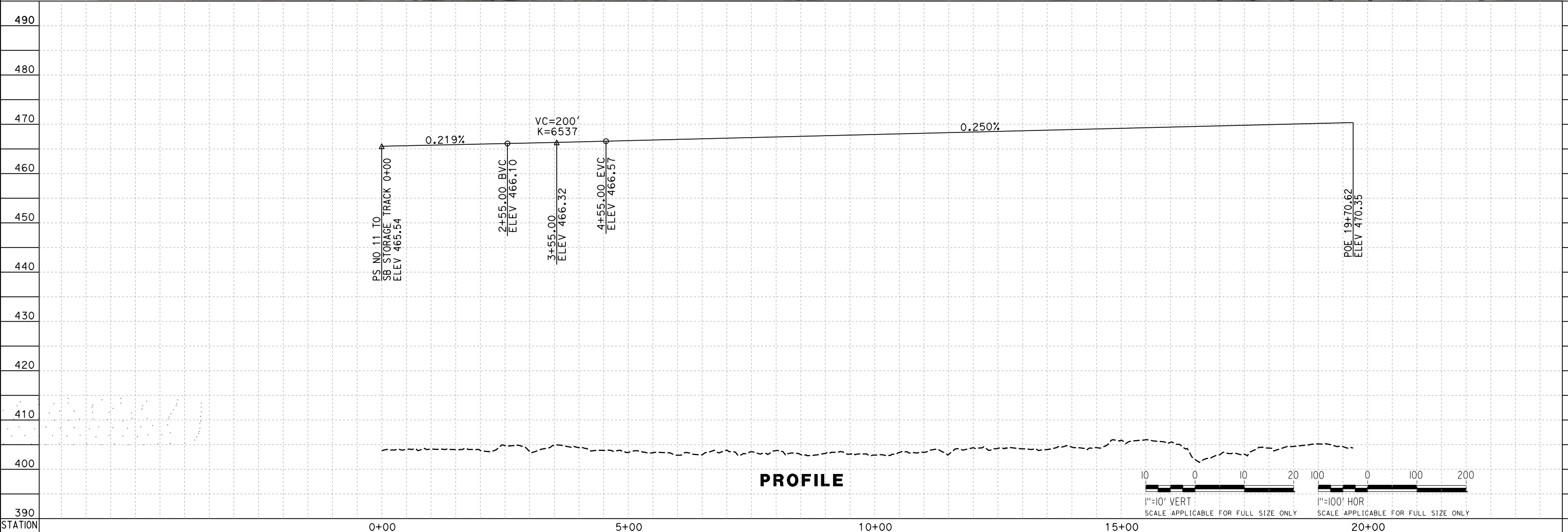
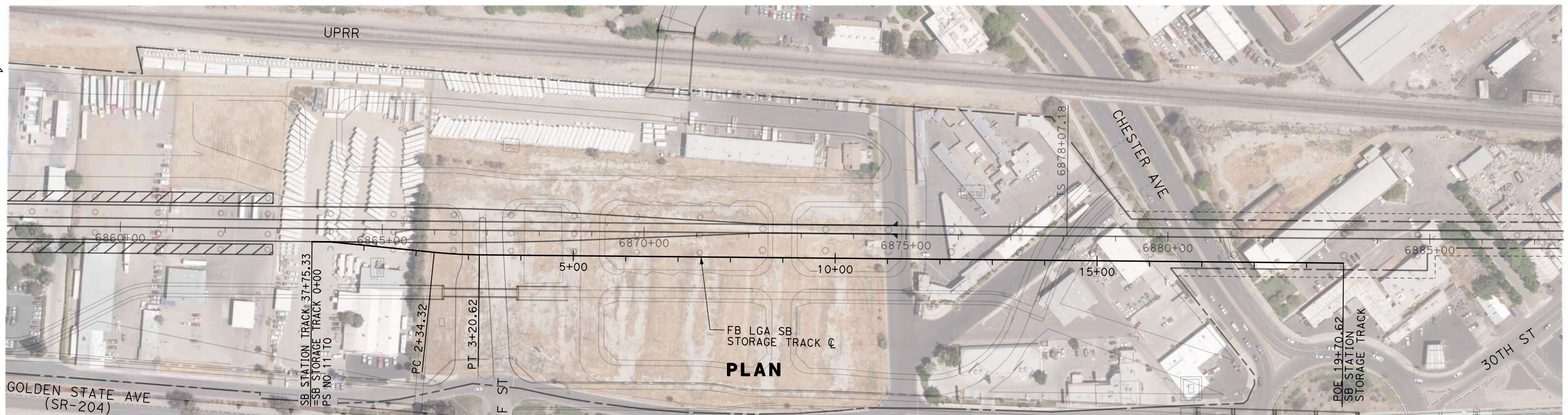
**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY - STATION NB STORAGE TRACK
STA 0+00 TO 19+76
PLAN AND PROFILE

CONTRACT NO.
HSR13-44
DRAWING NO.
TT-D1050
SCALE
AS SHOWN
SHEET NO.
37

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TREJO
DRAWN BY
J. TREJO
CHECKED BY
E. WINTERS
IN CHARGE
P. PIENTON
DATE
10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY - STATION SB STORAGE TRACK
STA 0+00 TO 19+71
PLAN AND PROFILE

CONTRACT NO.
HSR13-44
DRAWING NO.
TT-D1051
SCALE
AS SHOWN
SHEET NO.
38

Fresno to Bakersfield

COORDINATION SET
LOCALLY GENERATED ALTERNATIVE (LGA)

ROADWAY PLANS
January 2021



Projects\701206_N_BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set_Submittal\City of Bakersfield\BFSSA-CV-B0001
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GENERAL, ROADWAY, GRADE SEPARATION. & STRUCTURES

DRAWING NO.	REV NO.	DRAWING DESCRIPTION
		GENERAL
CV-B0001		INDEX OF SHEETS
CV-B0002		INDEX OF SHEETS
CV-B0003		INDEX OF SHEETS
CV-B0004		ABBREVIATIONS AND SYMBOLS
CV-B0005		ABBREVIATIONS AND SYMBOLS
CV-B0006		KEY MAP
CV-B0007		KEY MAP
CV-B0008		TYPICAL SECTION
CV-B0009		TYPICAL SECTION
CV-B0010		TYPICAL SECTION
CV-B0011		TYPICAL SECTION
CV-B0012		TYPICAL SECTION
CV-B0013		TYPICAL SECTION
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CV-B0029		TYPICAL SECTION
CV-B0030		TYPICAL SECTION
CV-B0031		TYPICAL SECTION
CV-B0032		TYPICAL SECTION
CV-B0033		TYPICAL SECTION
CV-B0034		TYPICAL SECTION

GENERAL, ROADWAY, GRADE SEPARATION. & STRUCTURES

DRAWING NO.	REV NO.	DRAWING DESCRIPTION
CV-B0035		TYPICAL SECTION
CV-B0036		TYPICAL SECTION
CV-B0037		TYPICAL SECTION
CV-B0038		TYPICAL SECTION
CV-B0039		TYPICAL SECTION
CV-B0040		TYPICAL SECTION
		ROADWAY
CV-R1001		ROADWAY - FRESNO AVENUE LAYOUT
CV-R1002		ROADWAY - FRESNO AVENUE PROFILE
CV-R1003		ROADWAY - METTLER AVENUE PROFILE
CV-R1004		ROADWAY - TULARE AVENUE LAYOUT
CV-R1005		ROADWAY - TULARE AVENUE PROFILE
CV-R1006		ROADWAY - CENTRAL AVENUE LAYOUT
CV-R1007		ROADWAY - CENTRAL AVENUE PROFILE
CV-R1008		ROADWAY - EAST LERDO HIGHWAY LAYOUT
CV-R1009		ROADWAY - EAST LERDO HIGHWAY PROFILE
CV-R1010		ROADWAY - EAST LOS ANGELES AVENUE LAYOUT
CV-R1011		ROADWAY - EAST LOS ANGELES AVENUE PROFILE
CV-R1012		ROADWAY - GOLD'S AVENUE LAYOUT
CV-R1013		ROADWAY - GOLD'S AVENUE PROFILE
CV-R1014		ROADWAY - STATE ROAD NORTH LAYOUT
CV-R1015		ROADWAY - STATE ROAD NORTH PROFILE
CV-R1016		ROADWAY - STATE ROAD SOUTH LAYOUT
CV-R1017		ROADWAY - STATE ROAD SOUTH PROFILE
CV-R1018		ROADWAY - SUMNER STREET LAYOUT
CV-R1019		ROADWAY - SUMNER STREET LAYOUT
CV-R1020		ROADWAY - SUMNER STREET PROFILE
CV-R1021		ROADWAY - SUMNER STREET PROFILE
CV-R1022		ROADWAY - SUMNER STREET PROFILE
CV-R1023		ROADWAY - SUMNER STREET PROFILE
CV-R1024		ROADWAY - EDISON HIGHWAY LAYOUT
CV-R1025		ROADWAY - EDISON HIGHWAY LAYOUT
CV-R1026		ROADWAY - EDISON HIGHWAY LAYOUT
CV-R1027		ROADWAY - EDISON HIGHWAY PROFILE
CV-R1028		ROADWAY - EDISON HIGHWAY PROFILE
CV-R1029		ROADWAY - EDISON HIGHWAY PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK
 DRAWN BY
P. BOCTOR
 CHECKED BY
R. GONZALEZ
 IN CHARGE
S. OLLO
 DATE
10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 ROADWAY / GRADE SEPARATION
 INDEX OF SHEETS

CONTRACT NO.
 HSR13-44
 DRAWING NO.
 CV-B0001
 SCALE
 NO SCALE
 SHEET NO.
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Projects\701206_N_BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set_Submittal\City of Bakersfield\BFSSA-CV-B0002
 \$PLTDRVS\$ \$PENTBL\$ \$ 11/28/2016 5:13 AM

GENERAL, ROADWAY, GRADE SEPARATION. & STRUCTURES

DRAWING NO.	REV NO.	DRAWING DESCRIPTION
		GRADE SEPARATION
CV-T1001		GRADE SEPARATION LAYOUT POPLAR AVENUE
CV-T1002		GRADE SEPARATION LAYOUT POPLAR AVENUE
CV-T1003		GRADE SEPARATION LAYOUT POPLAR AVENUE
CV-T1004		GRADE SEPARATION PROFILE POPLAR AVENUE
CV-T1005		GRADE SEPARATION PROFILE POPLAR AVENUE
CV-T1006		GRADE SEPARATION PROFILE POPLAR AVENUE
CV-T1007		GRADE SEPARATION PROFILE POPLAR AVENUE
CV-T1008		GRADE SEPARATION LAYOUT RIVERSIDE STREET
CV-T1009		GRADE SEPARATION LAYOUT RIVERSIDE STREET
CV-T1010		GRADE SEPARATION LAYOUT RIVERSIDE STREET
CV-T1011		GRADE SEPARATION PROFILE RIVERSIDE STREET
CV-T1012		GRADE SEPARATION PROFILE RIVERSIDE STREET
CV-T1013		GRADE SEPARATION LAYOUT COFFEE ROAD
CV-T1014		GRADE SEPARATION LAYOUT COFFEE ROAD
CV-T1015		GRADE SEPARATION LAYOUT 7TH STANDARD ROAD
CV-T1016		GRADE SEPARATION LAYOUT 7TH STANDARD ROAD
CV-T1017		GRADE SEPARATION LAYOUT 7TH STANDARD ROAD
CV-T1018		GRADE SEPARATION LAYOUT 7TH STANDARD ROAD
CV-T1019		GRADE SEPARATION PROFILE COFFEE ROAD
CV-T1020		GRADE SEPARATION PROFILE COFFEE ROAD
CV-T1021		GRADE SEPARATION PROFILE ACCESS DRIVEWAY
CV-T1022		GRADE SEPARATION PROFILE 7TH STANDARD ROAD
CV-T1023		GRADE SEPARATION PROFILE 7TH STANDARD ROAD
CV-T1024		GRADE SEPARATION PROFILE - GOLDEN STATE HIGHWAY FRONTAGE
CV-T1025		GRADE SEPARATION PROFILE 7TH STANDARD ROAD
CV-T1026		GRADE SEPARATION PROFILE - 7TH STANDARD ROAD
CV-T1027		GRADE SEPARATION PROFILE - 7TH STANDARD ROAD
CV-T1028		GRADE SEPARATION PROFILE - 7TH STANDARD ROAD
CV-T1029		GRADE SEPARATION PROFILE - 7TH STANDARD ROAD
CV-T1030		GRADE SEPARATION LAYOUT - SR-204
CV-T1031		GRADE SEPARATION LAYOUT - SR-204
CV-T1032		GRADE SEPARATION LAYOUT - SR-204
CV-T1033		GRADE SEPARATION LAYOUT - SR-204
CV-T1034		GRADE SEPARATION PROFILE - SR-204

GENERAL, ROADWAY, GRADE SEPARATION. & STRUCTURES

DRAWING NO.	REV NO.	DRAWING DESCRIPTION
CV-T1035		GRADE SEPARATION PROFILE - F STREET
CV-T1036		GRADE SEPARATION PROFILE - SR-204 NB OFF RAMP
CV-T1037		GRADE SEPARATION PROFILE - SR-204 NB ON RAMP
CV-T1038		GRADE SEPARATION PROFILE - SR-204 SB OFF RAMP
CV-T1039		GRADE SEPARATION PROFILE - SR-204 SB ON RAMP
CV-T1040		GRADE SEPARATION PROFILE - F ST MULTI USE PATH
CV-T1041		GRADE SEPARATION LAYOUT STATION
CV-T1042		GRADE SEPARATION LAYOUT - STATION
CV-T1043		GRADE SEPARATION PROFILE - STATION ROAD 1 AND 2
CV-T1044		GRADE SEPARATION PROFILE - STATION 3 AND 4
CV-T1045		GRADE SEPARATION PROFILE - STATION 5 AND 6
CV-T1046		GRADE SEPARATION PROFILE - 32ND STREET
CV-T1047		GRADE SEPARATION PROFILE - STATION MULTI USE PATH
CV-T1048		GRADE SEPARATION PROFILE - MULTI USE PATH 2
CV-T1049		GRADE SEPARATION PROFILE - GOLDEN STATE AVENUE SOUTH FRONTAGE
CV-T1050		GRADE SEPARATION LAYOUT - 34TH STREET
CV-T1051		GRADE SEPARATION PROFILE - 34TH ST MUP
CV-T1052		GRADE SEPARATION PROFILE - CHESTER AVE
CV-T1053		GRADE SEPARATION PROFILE - K STREET
		ROADWAY STRUCTURES
CV-T7001		DRAFT GENERAL PLAN NO. 1 - POPLAR AVENUE OVERHEAD
CV-T7002		DRAFT GENERAL PLAN NO. 2 - POPLAR AVENUE OVERHEAD
CV-T7003		DRAFT GENERAL PLAN - RIVERSIDE STREET OVERHEAD
CV-T7004		DRAFT TYPICAL SECTION - RIVERSIDE STREET OVERHEAD
CV-T7005		DRAFT GENERAL PLAN NO. 1 - 7TH STANDARD VIADUCT
CV-T7006		DRAFT GENERAL PLAN NO. 2 - 7TH STANDARD VIADUCT
CV-T7007		DRAFT GENERAL PLAN NO. 3 - 7TH STANDARD VIADUCT
CV-T7008		DRAFT TYPICAL SECTIONS - 7TH STANDARD VIADUCT
CV-T7009		DRAFT GENERAL PLAN - CARRIER CANAL BRIDGE (WIDEN)
CV-T7010		DRAFT GENERAL PLAN - F STREET UC
CV-T7011		DRAFT ELEVATIONS - F STREET UC
CV-T7012		DRAFT GENERAL PLAN - CHESTER AVE UC
CV-T7013		DRAFT SECTIONS - CHESTER AVE UC
CV-T7014		DRAFT GENERAL PLAN - PEDESTRIAN BRIDGE OVER CARRIER CANAL
CV-T7015		DRAFT GENERAL PLAN - PEDESTRIAN BRIDGE OVER SR-204 ON RAMP

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK
 DRAWN BY
P. BOCTOR
 CHECKED BY
R. GONZALEZ
 IN CHARGE
S. OLLO
 DATE
10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 ROADWAY / GRADE SEPARATION
 INDEX OF SHEETS

CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-B0002
 SCALE
NO SCALE
 SHEET NO.
41

TYL\rcar\11/28/2016\53:18 AM \$PENTBL\$ \$PLTDRV\$ Projects\701206.N_BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-B0003

GENERAL, ROADWAY, GRADE SEPARATION. & STRUCTURES

DRAWING NO.	REV NO.	DRAWING DESCRIPTION
CV-T7016		DRAFT TYPICAL SECTIONS - PEDESTRIAN BRIDGE OVER SR 204 ON RAMP
CV-T7017		DRAFT GENERAL PLAN - PEDESTRIAN BRIDGE OVER F STREET
CV-T7018		DRAFT GENERAL PLAN - 34TH STREET

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CALIFORNIA HIGH-SPEED RAIL PROJECT
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INDEX OF SHEETS

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-B0003
SCALE
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SHEET NO.
42

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A

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

B

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

C

CAA CABLE ANCHOR ASSEMBLY
 CAP CORRUGATED ALUMINUM PIPE
 CAPA CORRUGATED ALUMINUM PIPE ARCH
 CAS CONSTRUCTION AREA SIGN
 CB CONCRETE BARRIER
 CBW CONCRETE BLOCK WALL
 C-C CENTER TO CENTER

C CONTINUED

CHSRA CALIFORNIA HIGH SPEED RAIL AUTHORITY
 CHST CALIFORNIA HIGH SPEED TRAIN
 CHSR CALIFORNIA HIGH SPEED RAIL
 CG CENTER OF GRAVITY
 CHNL CHANNEL
 CI CAST IRON
 CIDH CAST-IN-DRILLED-HOLE
 CIP,C-I-P CAST-IN-PLACE, CAST IRON PIPE
 CIPCP CAST IN PLACE CONCRETE PIPE
 CISS CAST-IN-STEEL-SHELL
 CJP COMPLETE JOINT PENETRATION
 ☉ CENTERLINE
 CL2 CLASS 2
 CL-6 CHAIN LINK FENCE (6 FT)
 CLF CHAIN LINK FENCE
 CLR CLEAR, CLEARANCE
 CM CORRUGATED METAL
 CMP CORRUGATED METAL PIPE
 CO COUNTY
 COL COLUMN
 CONC CONCRETE
 CONDUIT CONDUIT
 CONN CONNECTOR
 CONST CONSTRUCT, CONSTRUCTION
 CONT CONTINUOUS
 COORD COORDINATE
 CP CANDLEPOWER, CLEAR POINT
 CR CREEK
 CRCP CONTINUOUS REINFORCED CONCRETE PAVEMENT
 CRSP CONCRETED ROCK SLOPE PROTECTION
 CS CURVE TO SPIRAL
 CSP CORRUGATED STEEL PIPE
 CSPA CORRUGATED STEEL PIPE ARCH
 CT CALIFORNIA DEPARTMENT OF TRANSPORTATION
 CTB CEMENT TREATED BASE
 CTPB CEMENT TREATED PERMEABLE BASE
 CTPM CEMENT TREATED PERMEABLE MATERIAL
 CTRS CENTERS
 CVFPB CENTRAL VALLEY FLOOD PROTECTION BOARD
 CULV CULVERT
 ☉ CENTERLINE

D

D DEPTH
 Dc DEGREE OF CURVE
 DD DOWNDRAIN, DIRECTIVE DRILLING
 DBL DOUBLE
 DEG DEGREE
 DEL DELINEATOR
 DET DETAIL, DETOUR
 DF DOUGLAS FIR
 DI DRAINAGE INLET, DROP INLET
 DIA DIAMETER
 DIAPH DIAPHRAGM
 DIST DISTANCE, DISTRICT
 DMBB DOUBLE METAL BEAM BARRIER
 DR DRIVE
 DTBB DOUBLE THRIE BEAM BARRIER
 DWY DRIVEWAY

E

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

F

F & C FRAME AND COVER
 F & G FRAME AND GRATE
 FB FLOOR BEAM
 FB LGA FRESNO TO BAKERSFIELD LOCALLY GENERATED ALTERNATIVE
 F-B FRESNO TO BAKERSFIELD
 FDN FOUNDATION
 FEBT FACING EASTBOUND TRAFFIC
 FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY

FES FLARED END SECTION
FF FILTER FABRIC
FG FINISHED GRADE
FH FIRE HYDRANT
FIG FIGURE
FL FLOW LINE
FNBT FACING NORTHBOUND TRAFFIC
FOC FACE OF CONCRETE
FR RD FRONTAGE ROAD
FS FAR SIDE, FINISHED SURFACE
FSBT FACING SOUTHBOUND TRAFFIC
FT FOOT, FEET
FTG FOOTING
FWBT FACING WESTBOUND TRAFFIC
FWY FREEWAY
FPLM FULL SPAN PRECAST LAUNCHING METHOD

G ACCELERATION DUE TO GRAVITY

G CONTINUED

GA GAGE
 GALV GALVANIZED
 GIS GEOGRAPHIC INFORMATION SYSTEM
 GP GRADING PLANE
 GR GUARD RAILING
 GSP GALVANIZED STEEL PIPE
 GTR GUTTER

H

H HEIGHT
 HR HOUR
 HD HORIZONTAL DRAIN
 HDM HIGHWAY DESIGN MANUAL
 HDWL HEADWALL
 HEX HD HEXAGONAL HEAD
 HMA HOT MIXED ASPHALT
 HORIZ HORIZONTAL
 HP HINGE POINT, HORSEPOWER
 HPS HIGH PERFORMANCE STEEL
 HS HIGH STRENGTH
 HST HIGH SPEED TRAIN
 HSR HIGH SPEED RAIL
 HW HEADWALL, HIGH WATER
 HWM HIGH WATER MARK
 HWY HIGHWAY

I

IB IMPORTED BORROW
 ID INSIDE DIAMETER
 IF INSIDE FACE
 IN INCH, INCHES
 INT INTERIOR
 INV INVERT
 IRR IRRIGATION

J

JCT JUNCTION
 JP JOINT POLE
 JPCP JOINTED PLAIN CONCRETE PAVEMENT
 JS JUNCTION STRUCTURE
 JT JOINT

K DISTANCE TO ACHIEVE 1% GRADE CHANGE

L

L LENGTH
 LAT LATITUDE
 LCB LEAN CONCRETE BASE
 LHTO LEFT HAND TURN OUT
 LN LANE
 LOC LOCATION
 LOL LAYOUT LINE
 LONG LONGITUDE
 LONGIT LONGITUDINAL
 LS LENGTH OF SPIRAL
 LC LENGTH OF CURVE
 LT LEFT

M

MAINT MAINTENANCE
 MAX MAXIMUM
 MB METAL BEAM

M CONTINUED

MBB METAL BEAM BARRIER
 MBGR METAL BEAM GUARD RAILING
 MED MEDIAN
 MGS MIDWEST GUARDRAIL SYSTEM
 MH MANHOLE
 MIN MINIMUM
 MISC MISCELLANEOUS
 MISC I & S MISCELLANEOUS IRON AND STEEL
 MKR MARKER
 M/L MAIN LINE (RAILWAY)
 MOD MODIFIED, MODIFY
 MON MONUMENT
 MOIF MAINTAINANCE OF INFRASTRUCTURE FACILITY
 MP METAL PLATE
 MPGR METAL PLATE GUARD RAILING
 MPH MILES PER HOUR
 MR MOVEMENT RATING
 MSE MECHANICALLY STABILIZED EARTH
 MTL MATERIAL
 MSS MOVING SCAFFOLDING SYSTEM
 MVP MAINTENANCE VEHICLE PULLOUT

N

N NORTH, NORTHING
 NB NORTHBOUND
 NO. NUMBER (MUST HAVE PERIOD)
 NOS. NUMBERS (MUST HAVE PERIOD)
 NPS NOMINAL PIPE SIZE
 NS NEAR SIDE
 NTS NOT TO SCALE
 N/A NOT APPLICABLE

O

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

P

P PAGE
 PAP PERFORATED ALUMINUM PIPE
 PB PULL BOX
 PC POINT OF CURVATURE, PRECAST
 PCC POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
 PCP PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
 PCVC POINT OF COMPOUND VERTICAL CURVE
 PED PEDESTRIAN
 PED OC PEDESTRIAN OVERCROSSING
 PED UC PEDESTRIAN UNDERCROSSING
 PERM MTL PERMEABLE MATERIAL
 PG PROFILE GRADE
 PI POINT OF INTERSECTION
 PITO POINT OF INTERSECTION TURNOUT

REV	DATE	BY	CHK	APP	DESCRIPTION

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43

P CONTINUED

PJP PARTIAL JOINT PENETRATION
 PL PLATE
 P/L PROPERTY LINE
 PM POST MILE, TIME FROM NOON TO MIDNIGHT
 PN PAVING NOTCH
 POB POINT OF BEGINNING
 POC POINT OF HORIZONTAL CURVE
 POE POINT OF ENDING
 POT POINT OF TANGENT
 POTO POWER OPERATED TURNOUT
 POVC POINT OF VERTICAL CURVE
 PP PIPE PILE, PLASTIC PIPE, POWER POLE
 PPL PREFORMED PERMEABLE LINER
 PPP PERFORATED PLASTIC PIPE
 PRC POINT OF REVERSE CURVE
 PRF PAVEMENT REINFORCING FABRIC
 PROP PROPOSED
 PRVC POINT OF REVERSE VERTICAL CURVE
 PS&E PLANS, SPECIFICATIONS AND ESTIMATES
 PS, P/S PRESTRESSED, PARALLEL STATION
 PSP PERFORATED STEEL PIPE
 PT POINT OF TANGENCY
 PVC POLYVINYL CHLORIDE
 PVMT PAVEMENT

Q

QTY QUANTITY

R

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

S

S SOUTH, SUPPLEMENT
 SAE STRUCTURE APPROACH EMBANKMENT
 SALV SALVAGE

S CONTINUED

SAPP STRUCTURAL ALUMINUM PLATE PIPE
 SB SOUTHBOUND
 SC SPIRAL TO CURVE
 SCSP SLOTTED CORRUGATED STEEL PIPE
 SD STORM DRAIN
 SEC SECOND
 SECT SECTION
 SEP SEPARATION
 SG SUBGRADE
 SHLD SHOULDER
 SHT SHEET
 SIM SIMILAR
 S STATION LINE
 SM SELECTED MATERIAL
 SPEC SPECIAL, SPECIFICATIONS
 SPP SLOTTED PLASTIC PIPE
 SS SLOPE STAKE, SPIRAL TO SPIRAL, SWITCHING STATION
 SSBM STRAP AND SADDLE BRACKET METHOD
 SSD STRUCTURAL SECTION DRAIN
 SSPA STRUCTURAL STEEL PLATE ARCH
 SSPP STRUCTURAL STEEL PLATE PIPE
 SSPPA STRUCTURAL STEEL PLATE PIPE ARCH
 SSRP STEEL SPIRAL RIB PIPE
 SR STATE ROUTE
 ST STREET, SPIRAL TO TANGENT STATION
 STBB SINGLE THRIE BEAM BARRIER
 STD STANDARD
 STR STRUCTURE
 SRS STAND ALONE RADIO SITE
 SURF SURFACING
 SW SIDEWALK, SOUND WALL
 SWR SEWER
 SWS SWITCHING STATION
 SYM SYMMETRICAL
 S4S SURFACE 4 SIDES
 SJVR SAN JOAQUIN VALLEY RAILROAD

T

T SEMI-TANGENT
 TAB TABLET
 TAN TANGENT
 TBB THRIE BEAM BARRIER
 TBR TIMBER
 TC TOP OF CURB, TANGENT TO CURVE
 TCB TRAFFIC CONTROL BOX
 TEL TELEPHONE
 TEMP TEMPORARY
 TG TOP OF GRADE
 TM TECHNICAL MEMORANDUM
 TO TURN OUT
 TOR TOP OF RAIL
 TOT TOTAL
 TP TELEPHONE POLE
 TPB TREATED PERMEABLE BASE
 TPM TREATED PERMEABLE MATERIAL
 TPSS TRACTION POWER SUPPLY STATION
 TRANS TRANSITION, TRANSVERSE
 TS TRAFFIC SIGNAL, TUBULAR STEEL, TANGENT TO SPIRAL

T CONTINUED

TYP TYPICAL
 TW TRAVEL WAY
 TWLT TWO WAY LEFT TURN

U

UC UNDERCROSSING
 UD UNDERDRAIN
 UON UNLESS OTHERWISE NOTED
 UP UNDERPASS
 UPRR UNION PACIFIC RAILROAD
 USFWS UNITED STATES FISH AND WILDLIFE SERVICE

W

W WEST, WIDTH
 WB WESTBOUND
 WH WEEP HOLE
 WM WIRE MESH
 WS WATER SURFACE
 WSP WELDED STEEL PIPE
 WT WEIGHT
 WV WATER VALVE
 WW WINGWALL
 WWL WINGWALL LAYOUT LINE
 W/ WITH

X

X SEC CROSS SECTION
 XING CROSSING

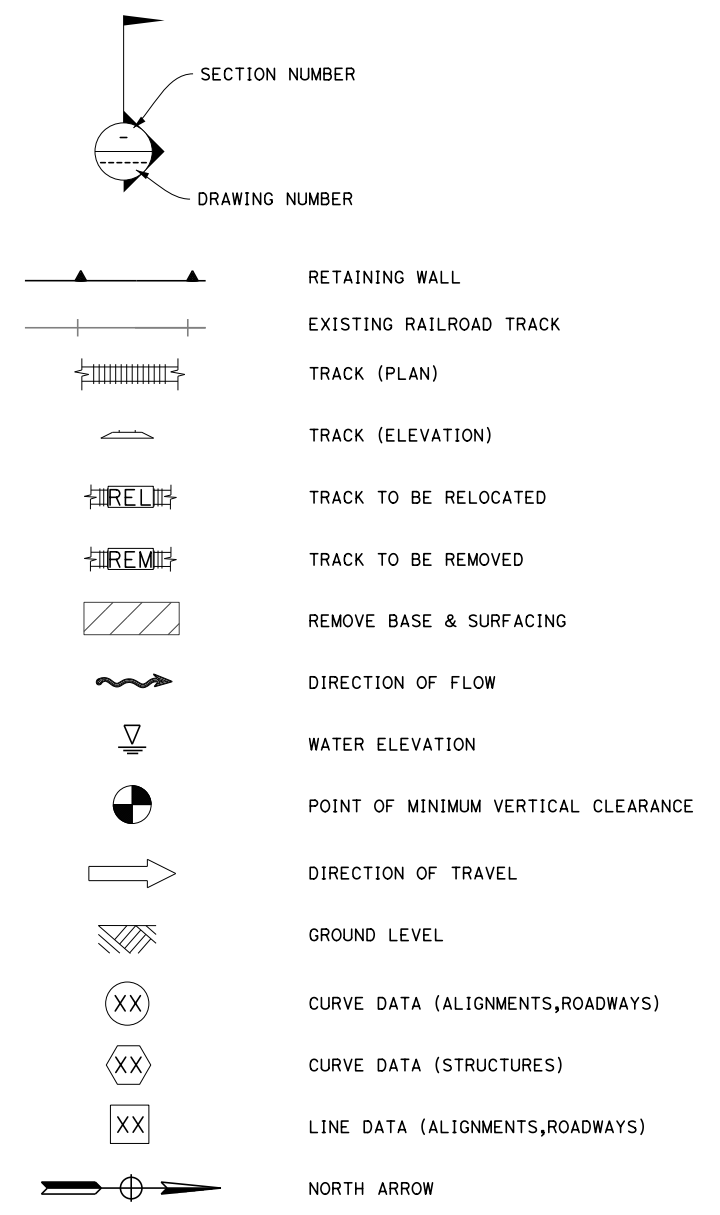
Y

YL YARD LEAD
 YR YEAR
 YRS YEARS

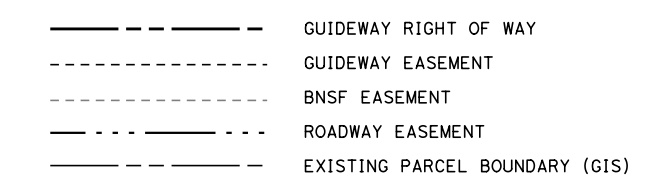
V

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

LEGEND



R/W AND EASEMENT LEGEND



Projects\701206.N.BFSS\00 CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set_Submittal\City of Bakersfield\BFSSA-CV-B0005
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK
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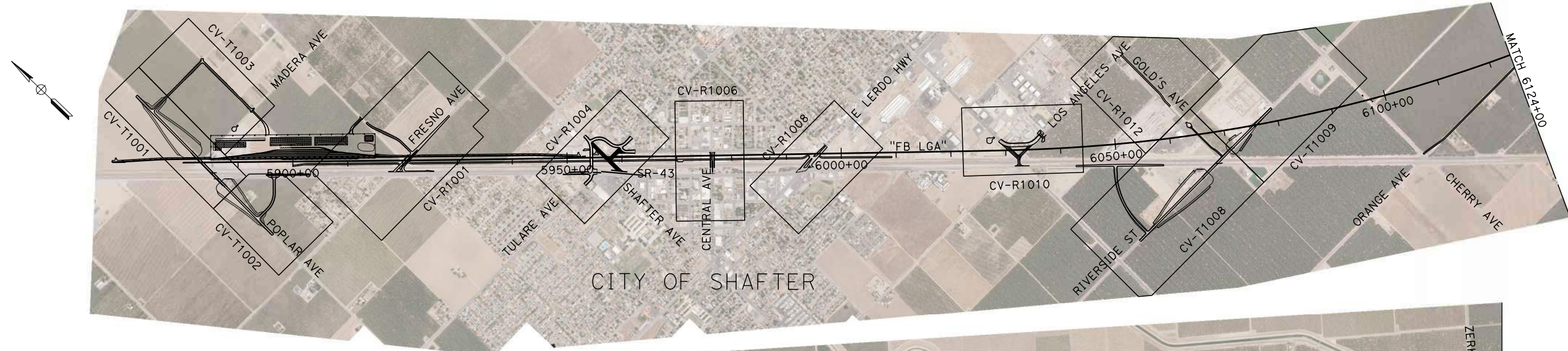
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
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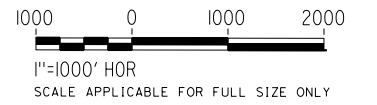
CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-B0005
 SCALE
NO SCALE
 SHEET NO.
44

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STREET CLOSURES

STREET NAME	HSR ALIGNMENT STATION	LOCAL STANDARD
MADERA AVE	5885+00	CITY OF SHAFTER
GOLDS AVE	6065+20	CITY OF SHAFTER
ORANGE AVE	6129+60	CITY OF SHAFTER
MENDOTA ST	6155+08	CITY OF SHAFTER
24TH STREET	6928+00	CITY OF BAKERSFIELD
MILLER ST	6997+10	CITY OF BAKERSFIELD
HALEY ST	7002+00	CITY OF BAKERSFIELD
STEELE AVE	7060+00	CITY OF BAKERSFIELD



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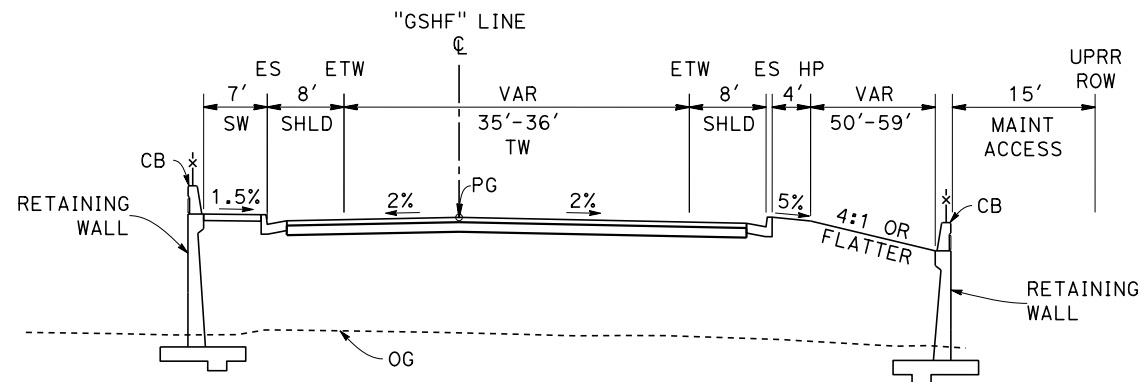
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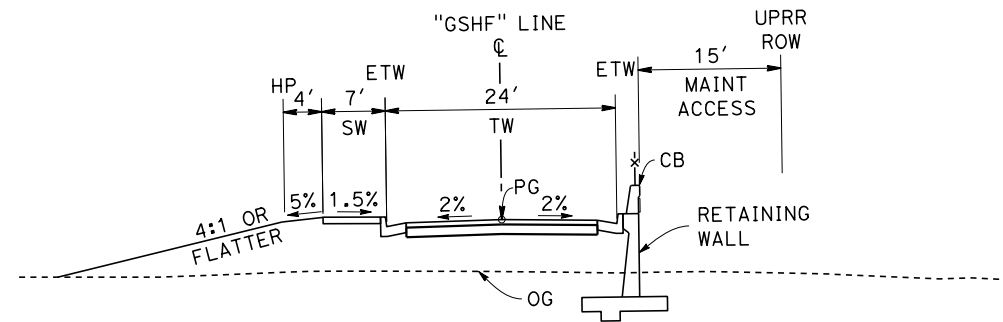
**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
ROADWAY / GRADE SEPARATION
KEY MAP SHEET 1

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-B0006
SCALE
AS SHOWN
SHEET NO.
45



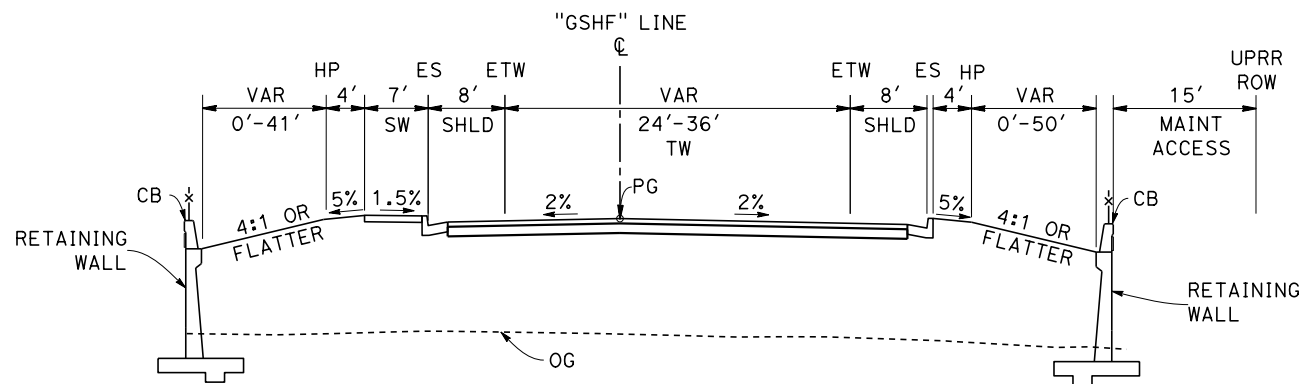
**TYPICAL SECTION
GOLDEN STATE HIGHWAY FRONTAGE**

"GSHF" STA 35+64 TO 36+56



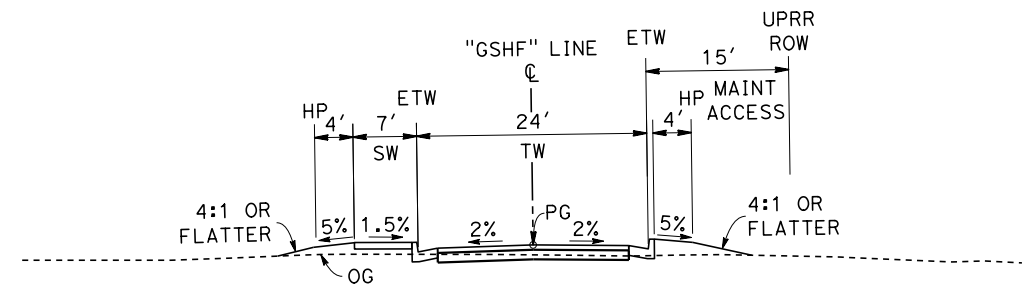
**TYPICAL SECTION
GOLDEN STATE HIGHWAY FRONTAGE**

"GSHF" STA 45+81 TO 48+85



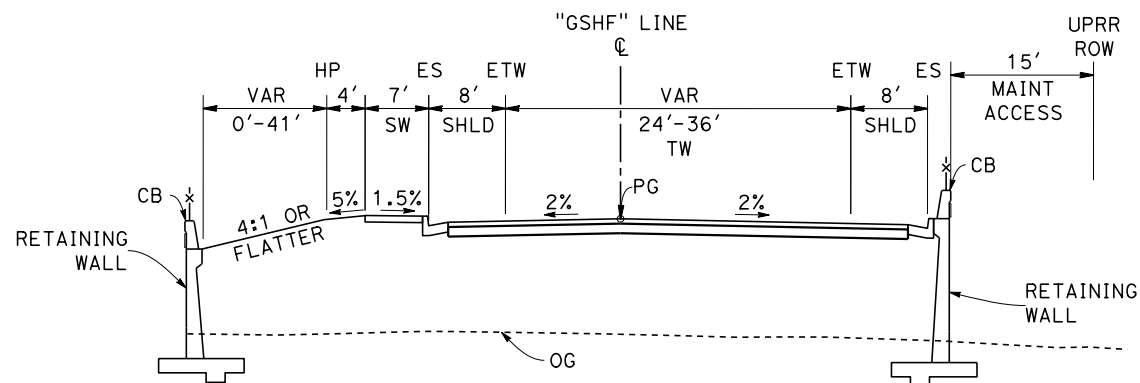
**TYPICAL SECTION
GOLDEN STATE HIGHWAY FRONTAGE**

"GSHF" STA 36+56 TO 38+05



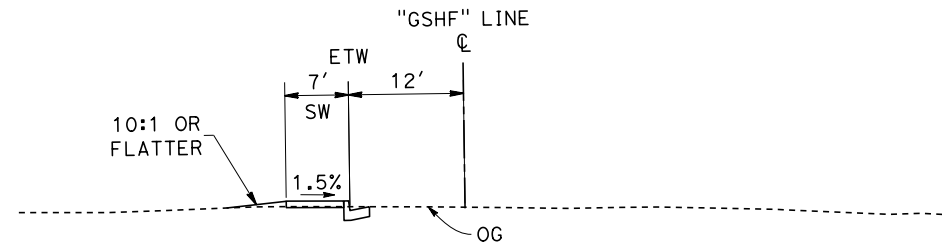
**TYPICAL SECTION
GOLDEN STATE HIGHWAY FRONTAGE**

"GSHF" STA 48+85 TO 50+37



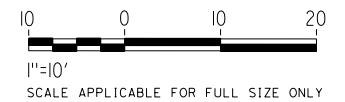
**TYPICAL SECTION
GOLDEN STATE HIGHWAY FRONTAGE**

"GSHF" STA 38+05 TO 45+81



**TYPICAL SECTION
GOLDEN STATE HIGHWAY FRONTAGE**

"GSHF" STA 50+37 TO 55+00



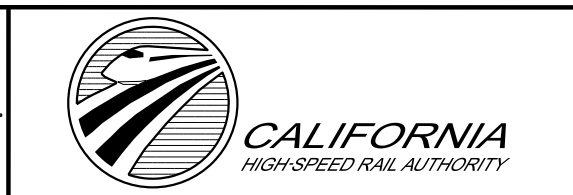
NOTE: VALUES WITHIN PARENTHESES INDICATE EXISTING CONDITION DIMENSIONS

Projects\701206.N.BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-B0025
 \$PLTDRVS\$
 \$PENTBL\$
 TYLIN\corr\11/28/2016@5:14 AM

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. PARK
DRAWN BY P. DRULINER
CHECKED BY R. GONZALEZ
IN CHARGE S. OLLO
DATE 10/28/2016

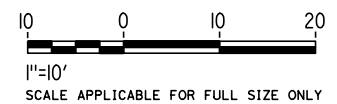
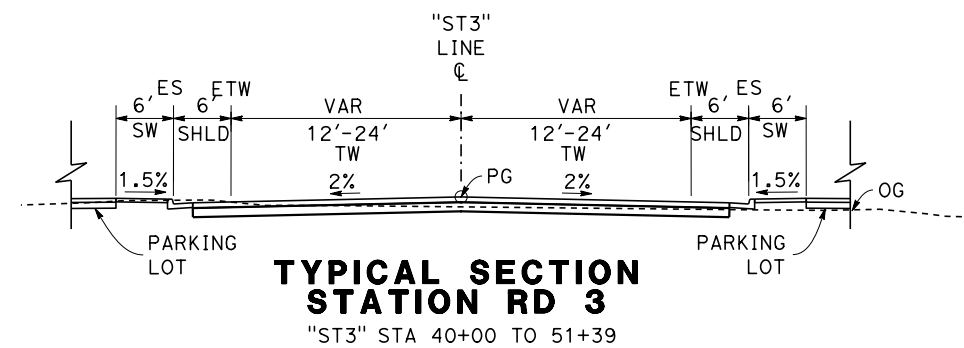
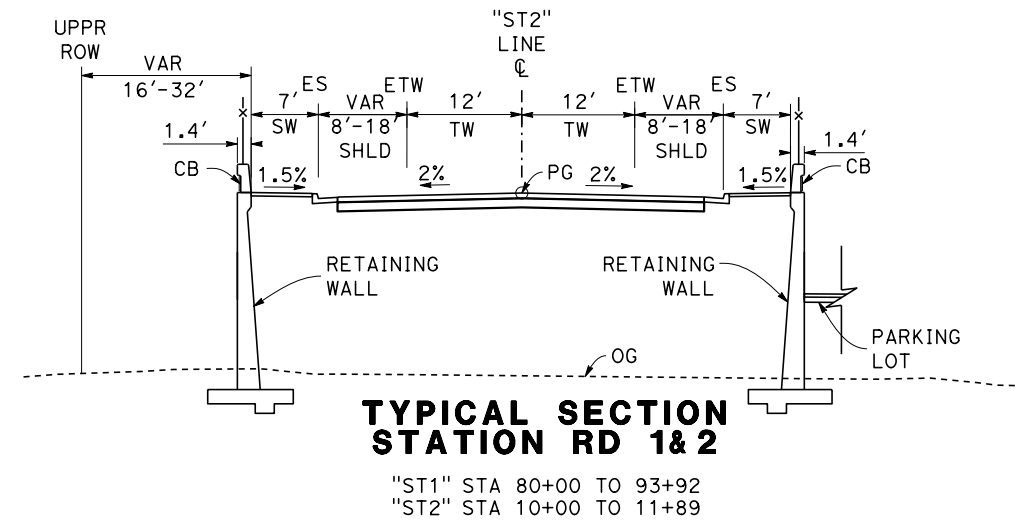
**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 ROADWAY / GRADE SEPARATION
 TYPICAL SECTIONS

CONTRACT NO. HSR13-44
DRAWING NO. CV-B0025
SCALE AS SHOWN
SHEET NO. 47

NOTE: VALUES WITHIN PARENTHESES INDICATE EXISTING CONDITION DIMENSIONS



Projects\701206.N_BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-B0035 \$PLTDRVS\$ \$PENTBLS\$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK
DRAWN BY
P. BOCTOR
CHECKED BY
R. GONZALEZ
IN CHARGE
S. OLLO
DATE
10/28/2016

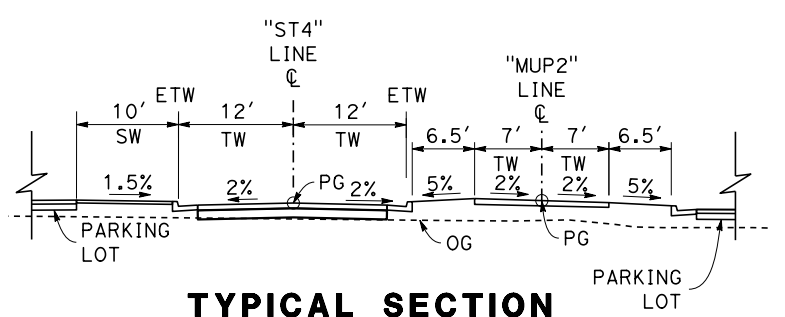
**RECORD SET
PEPD DESIGN
SUBMISSION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
ROADWAY / GRADE SEPARATION
TYPICAL SECTIONS

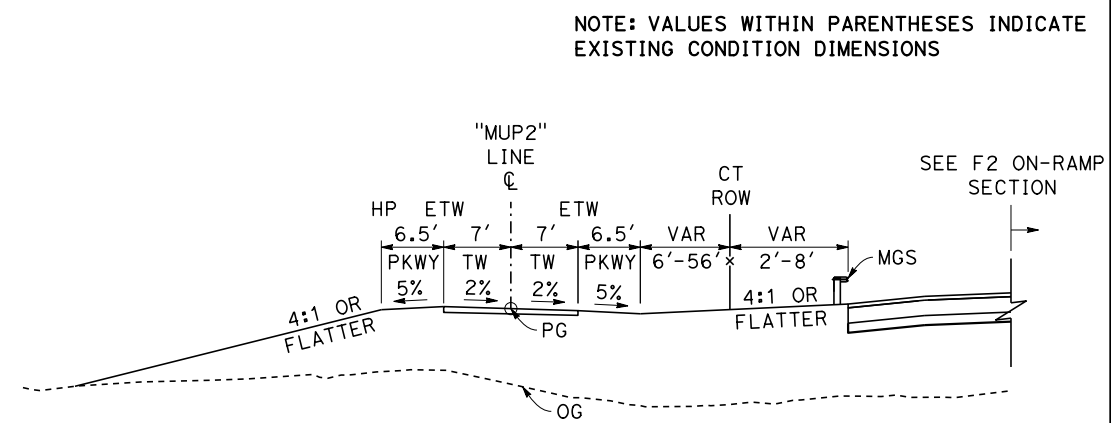
CONTRACT NO.
HSR13-44
DRAWING NO.
CV-B0035
SCALE
AS SHOWN
SHEET NO.

Projects\701206.N.BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-B0036



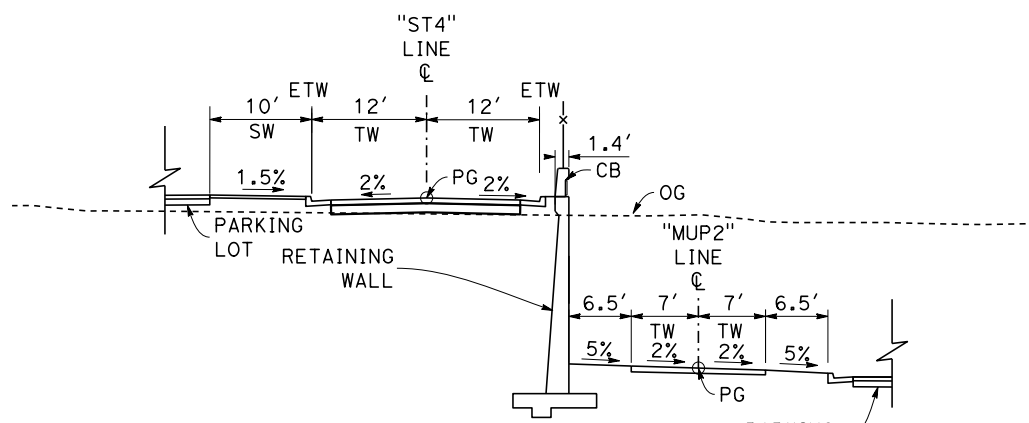
**TYPICAL SECTION
STATION RD 4 &
MULTIUSE PATH 2**

"ST4" STA 60+00 TO 64+20
"MUP2" STA 38+13 TO 42+34



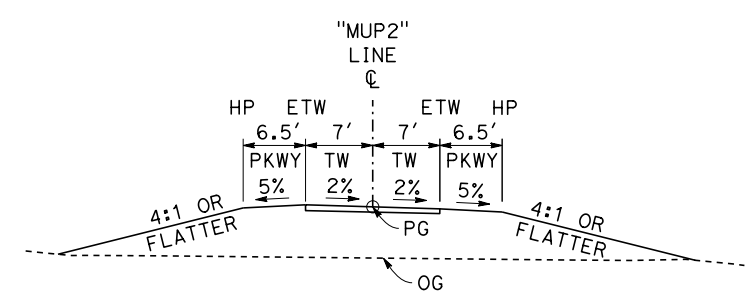
**TYPICAL SECTION
MULTIUSE PATH 2**

"MUP2" STA 22+01 TO 27+98



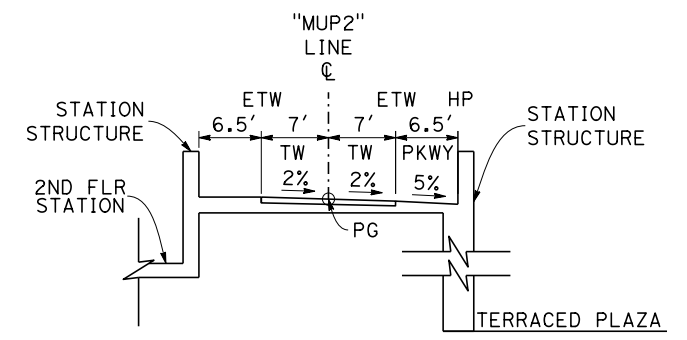
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STATION RD 4 &
MULTIUSE PATH 2**

"ST4" STA 64+20 TO 66+23
"MUP2" STA 42+34 TO 44+36



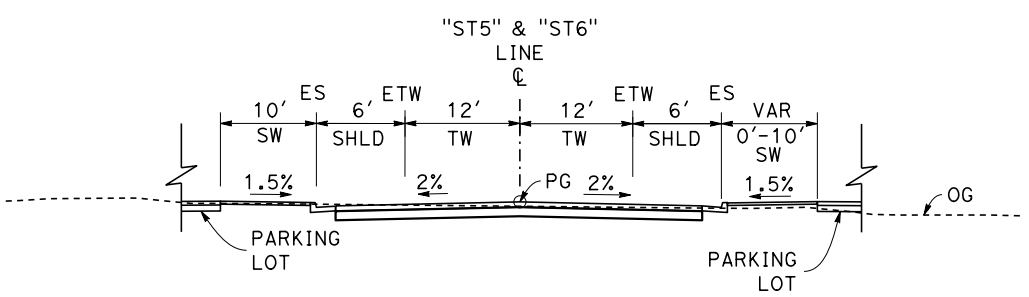
**TYPICAL SECTION
MULTIUSE PATH 2**

"MUP2" STA 10+00 TO 15+12
"MUP2" STA 16+16 TO 18+21
"MUP2" STA 20+06 TO 22+01
"MUP2" STA 27+98 TO 30+00
*NOTE: "MUP2" STA 15+12 TO 16+16. SEE BRIDGE PLANS



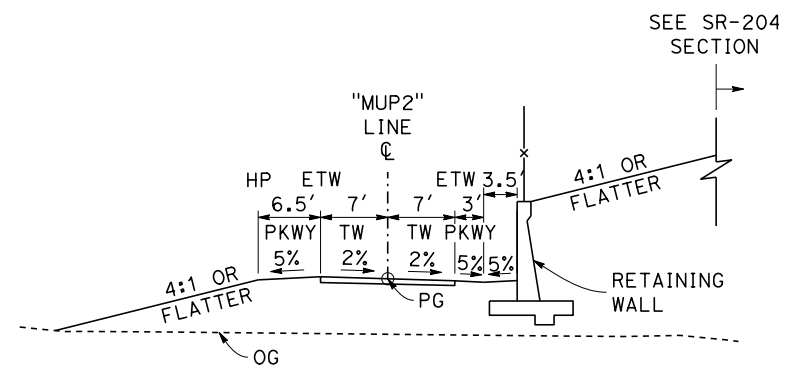
**TYPICAL SECTION
MULTIUSE PATH 2**

"MUP2" STA 30+00 TO 35+20



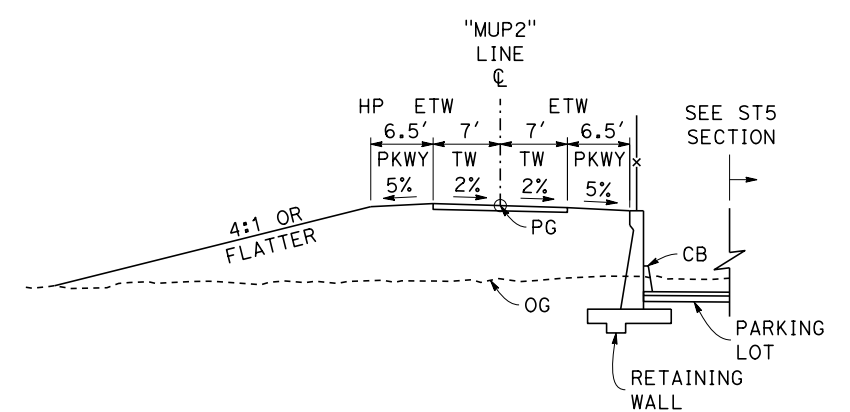
**TYPICAL SECTION
STATION RD 5 & 6**

"ST5" STA 20+00 TO 23+50
"ST6" STA 39+96 TO 48+82



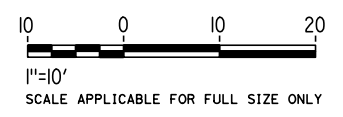
**TYPICAL SECTION
MULTIUSE PATH 2**

"MUP2" STA 18+21 TO 20+06



**TYPICAL SECTION
MULTIUSE PATH 2**

"MUP2" STA 36+74 TO 37+95



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK
DRAWN BY
P. BOCTOR
CHECKED BY
R. GONZALEZ
IN CHARGE
S. OLLO
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**

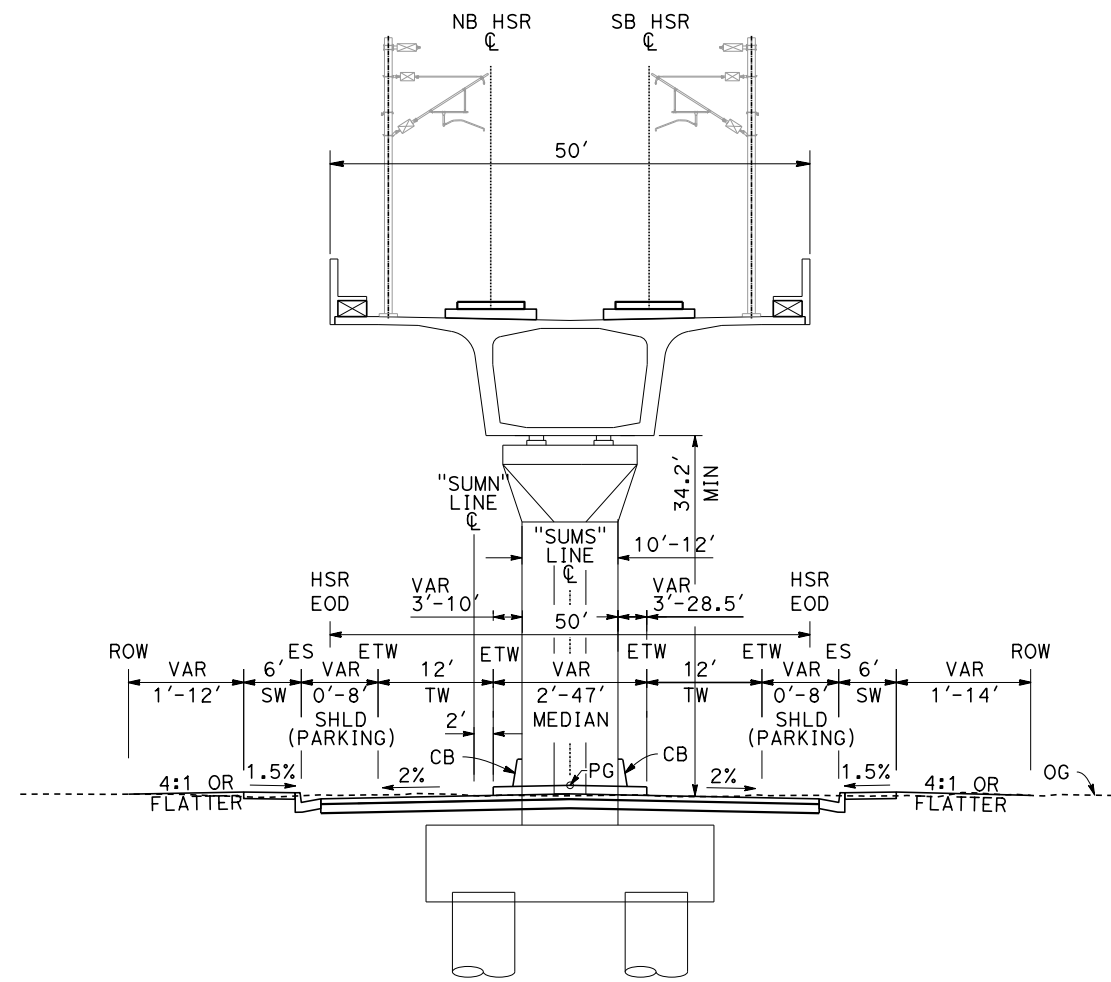


**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
ROADWAY / GRADE SEPARATION
TYPICAL SECTIONS

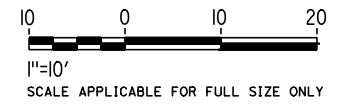
CONTRACT NO.
HSR13-44
DRAWING NO.
CV-B0036
SCALE
AS SHOWN
SHEET NO.
49

Projects\701206.N_BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-B0039

- NOTE: 1. VALUES WITHIN PARENTHESES INDICATE EXISTING CONDITION DIMENSIONS.
 2. NO TRUCK PARKING UNDER VIADUCTS.



**TYPICAL SECTION
 SUMNER ST**
 "SUMS" STA 11+50 TO 64+50



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK
 DRAWN BY
P. BOCTOR
 CHECKED BY
R. GONZALEZ
 IN CHARGE
S. OLLO
 DATE
10/28/2016

**RECORD SET
 PEPP DESIGN
 SUBMISSION**

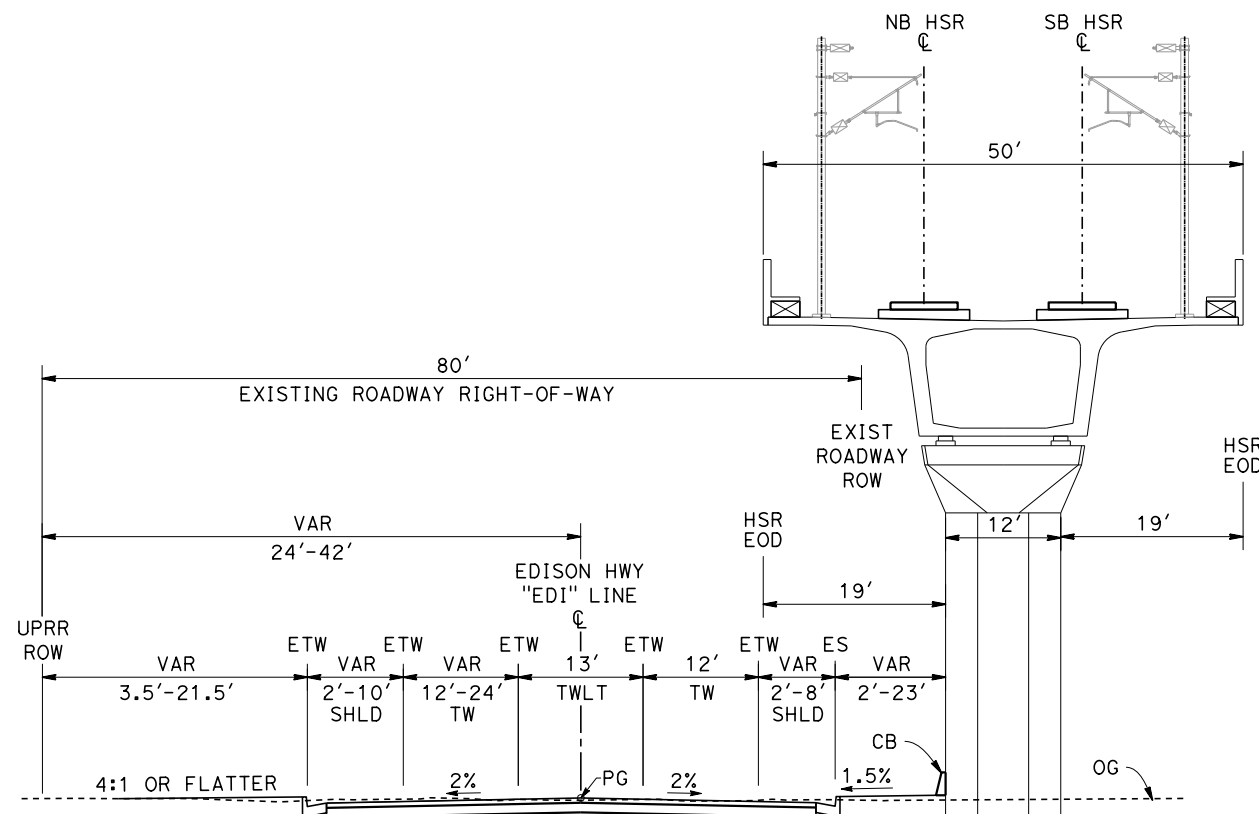


**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 ROADWAY / GRADE SEPARATION
 TYPICAL SECTIONS

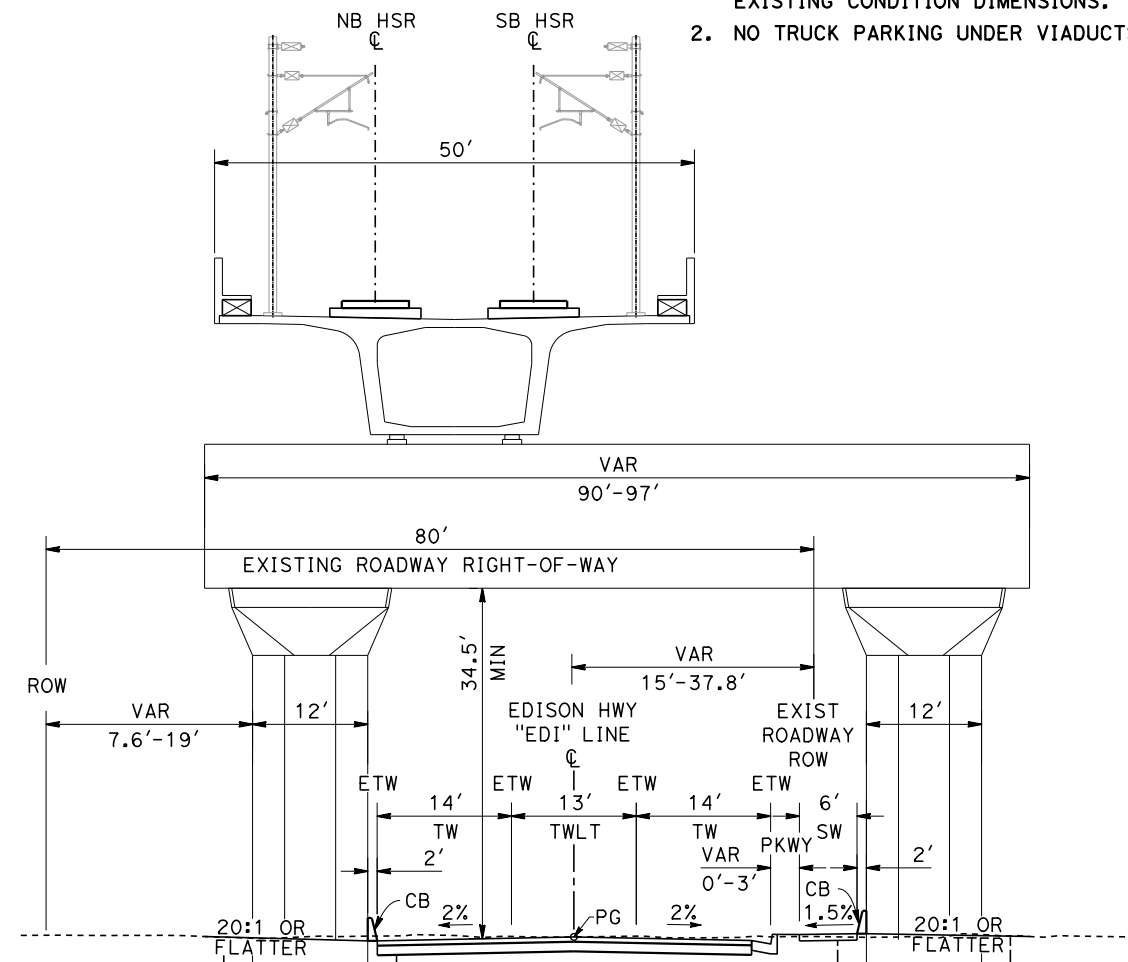
CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-B0039
 SCALE
AS SHOWN
 SHEET NO.
52

Projects\701206.N.BFSS\00 CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\Kern County\BFSSA-CV-B0040

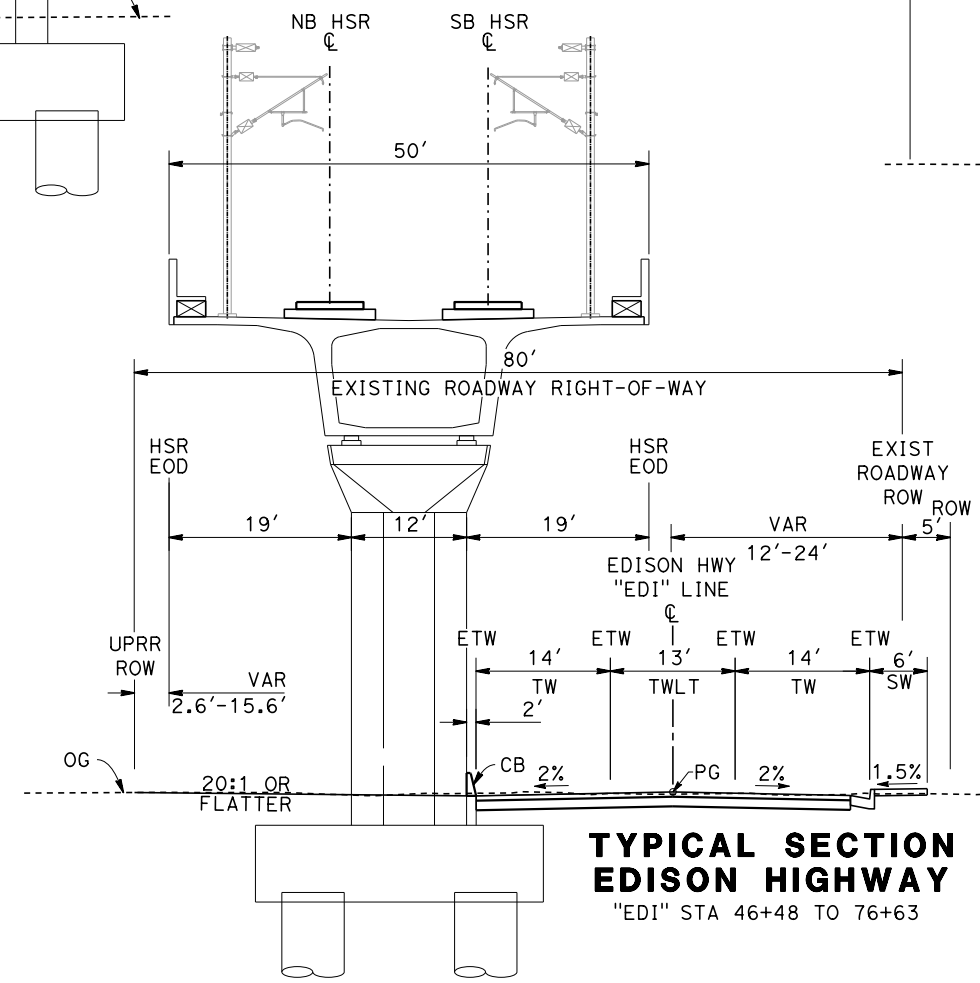
NOTE: 1. VALUES WITHIN PARENTHESES INDICATE EXISTING CONDITION DIMENSIONS.
2. NO TRUCK PARKING UNDER VIADUCTS.



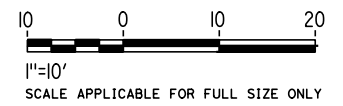
**TYPICAL SECTION
EDISON HIGHWAY**
"EDI" STA 15+60 TO 43+69



**TYPICAL SECTION
EDISON HIGHWAY**
"EDI" STA 43+69 TO 46+48



**TYPICAL SECTION
EDISON HIGHWAY**
"EDI" STA 46+48 TO 76+63



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON
DRAWN BY
T. WILKINSON
CHECKED BY
R. GONZALEZ
IN CHARGE
S. OLLO
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
ROADWAY / GRADE SEPARATION
TYPICAL SECTIONS

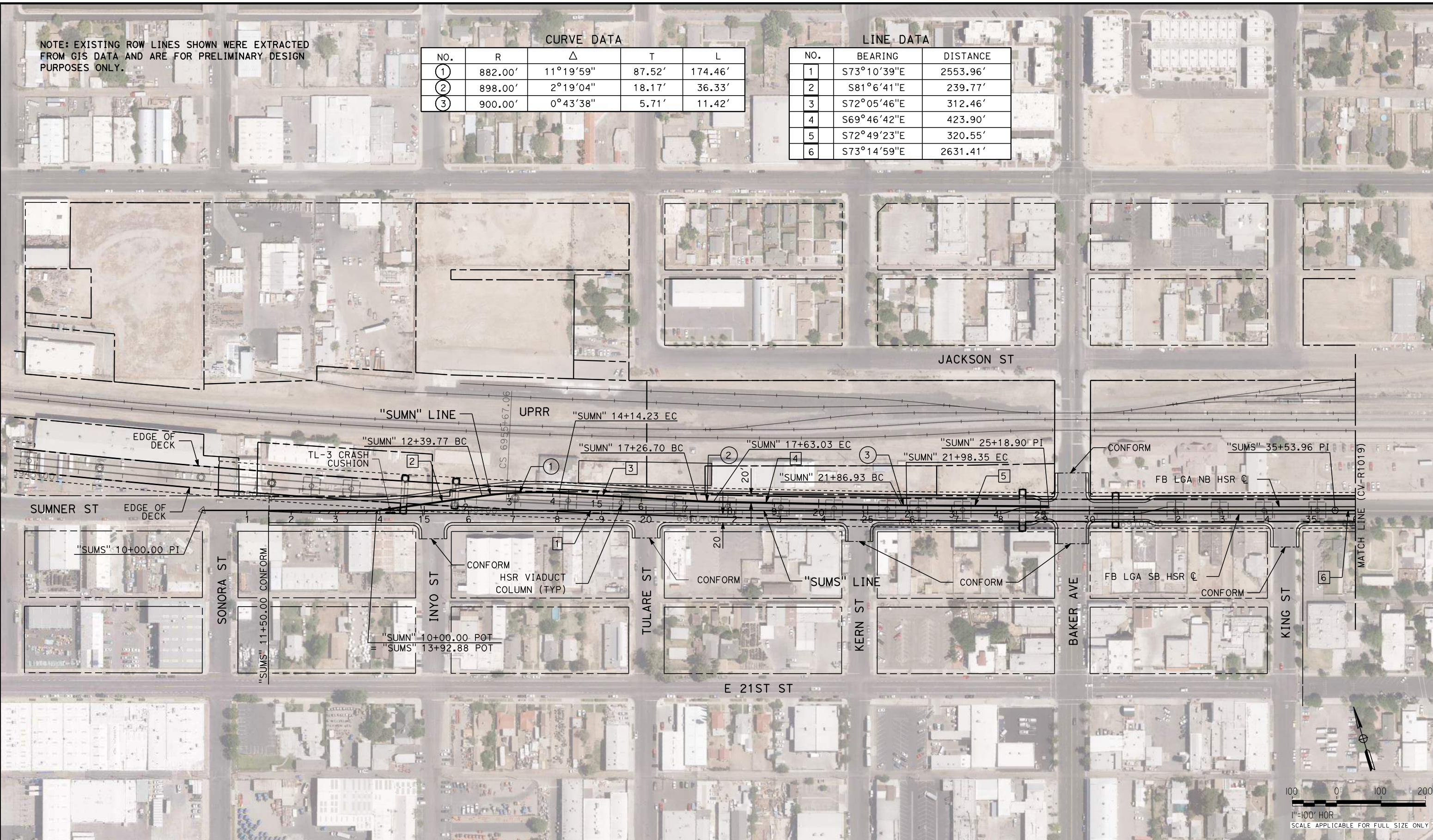
CONTRACT NO.
HSR13-44
DRAWING NO.
CV-B0040
SCALE
AS SHOWN
SHEET NO.
53

Projects\701206.N.BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-R1018

NOTE: EXISTING ROW LINES SHOWN WERE EXTRACTED FROM GIS DATA AND ARE FOR PRELIMINARY DESIGN PURPOSES ONLY.

CURVE DATA				
NO.	R	Δ	T	L
①	882.00'	11°19'59"	87.52'	174.46'
②	898.00'	2°19'04"	18.17'	36.33'
③	900.00'	0°43'38"	5.71'	11.42'

LINE DATA		
NO.	BEARING	DISTANCE
1	S73°10'39"E	2553.96'
2	S81°6'41"E	239.77'
3	S72°05'46"E	312.46'
4	S69°46'42"E	423.90'
5	S72°49'23"E	320.55'
6	S73°14'59"E	2631.41'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK
DRAWN BY
N. OLINO
CHECKED BY
R. GONZALEZ
IN CHARGE
S. OLLO
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
ROADWAY LAYOUT
SUMNER STREET

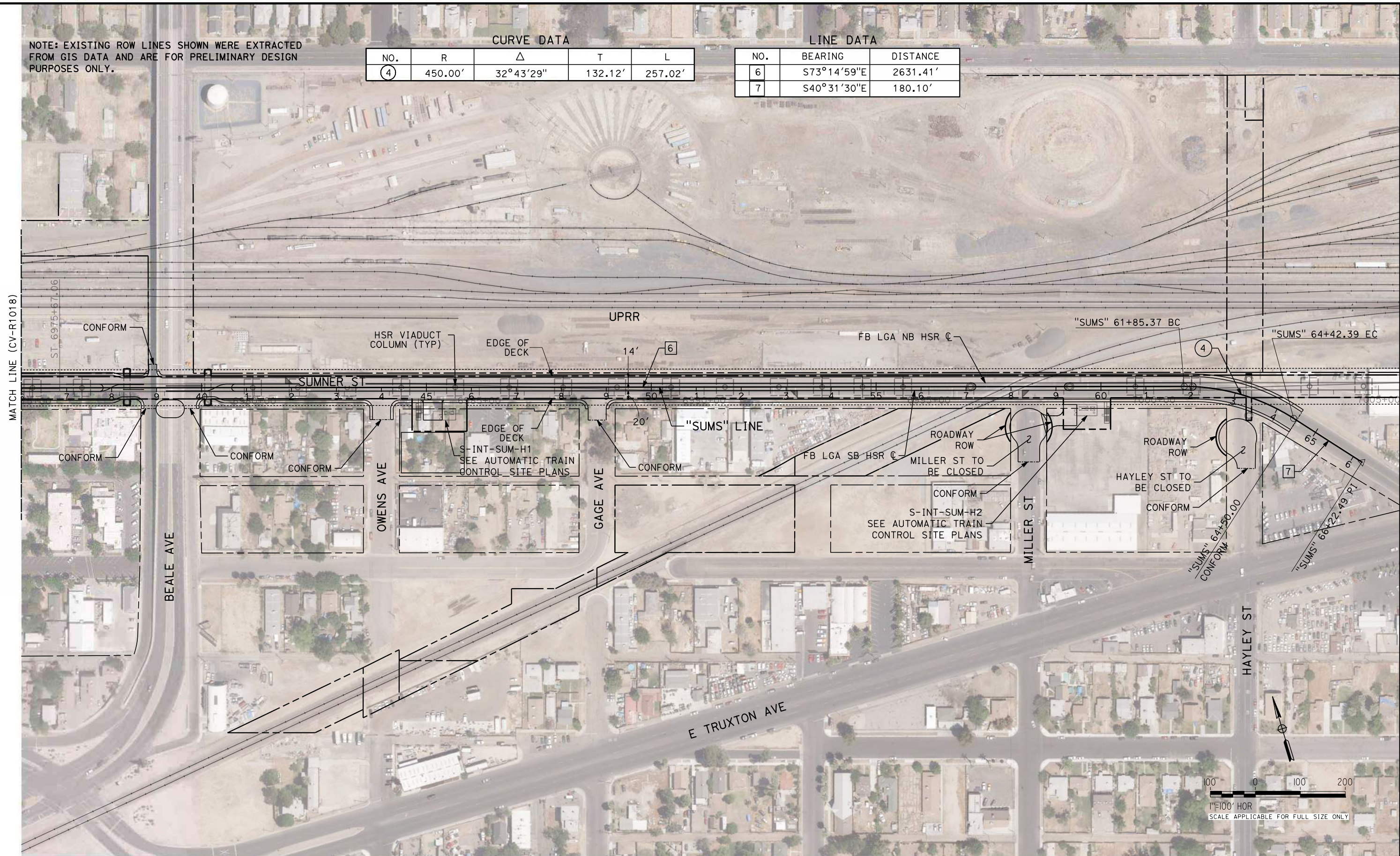
CONTRACT NO.
HSR13-44
DRAWING NO.
CV-R1018
SCALE
AS SHOWN
SHEET NO.
54

TYLIN\corporate\11/28/2016\11:53:48 AM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N.BFSS\00 CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-R1019

NOTE: EXISTING ROW LINES SHOWN WERE EXTRACTED FROM GIS DATA AND ARE FOR PRELIMINARY DESIGN PURPOSES ONLY.

CURVE DATA				
NO.	R	Δ	T	L
4	450.00'	32°43'29"	132.12'	257.02'

LINE DATA		
NO.	BEARING	DISTANCE
6	S73°14'59"E	2631.41'
7	S40°31'30"E	180.10'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK
DRAWN BY
N. OLINO
CHECKED BY
R. GONZALEZ
IN CHARGE
S. OLLO
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
ROADWAY LAYOUT
SUMNER STREET

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-R1019
SCALE
AS SHOWN
SHEET NO.
55

TYL\rcor\11/28/2016 10:19:00 AM \$PENTBL\$ \$PLTDRV\$ Projects\701206.N_BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set_Submittal\Kern County\BFSSA-CV-R1024-EDI

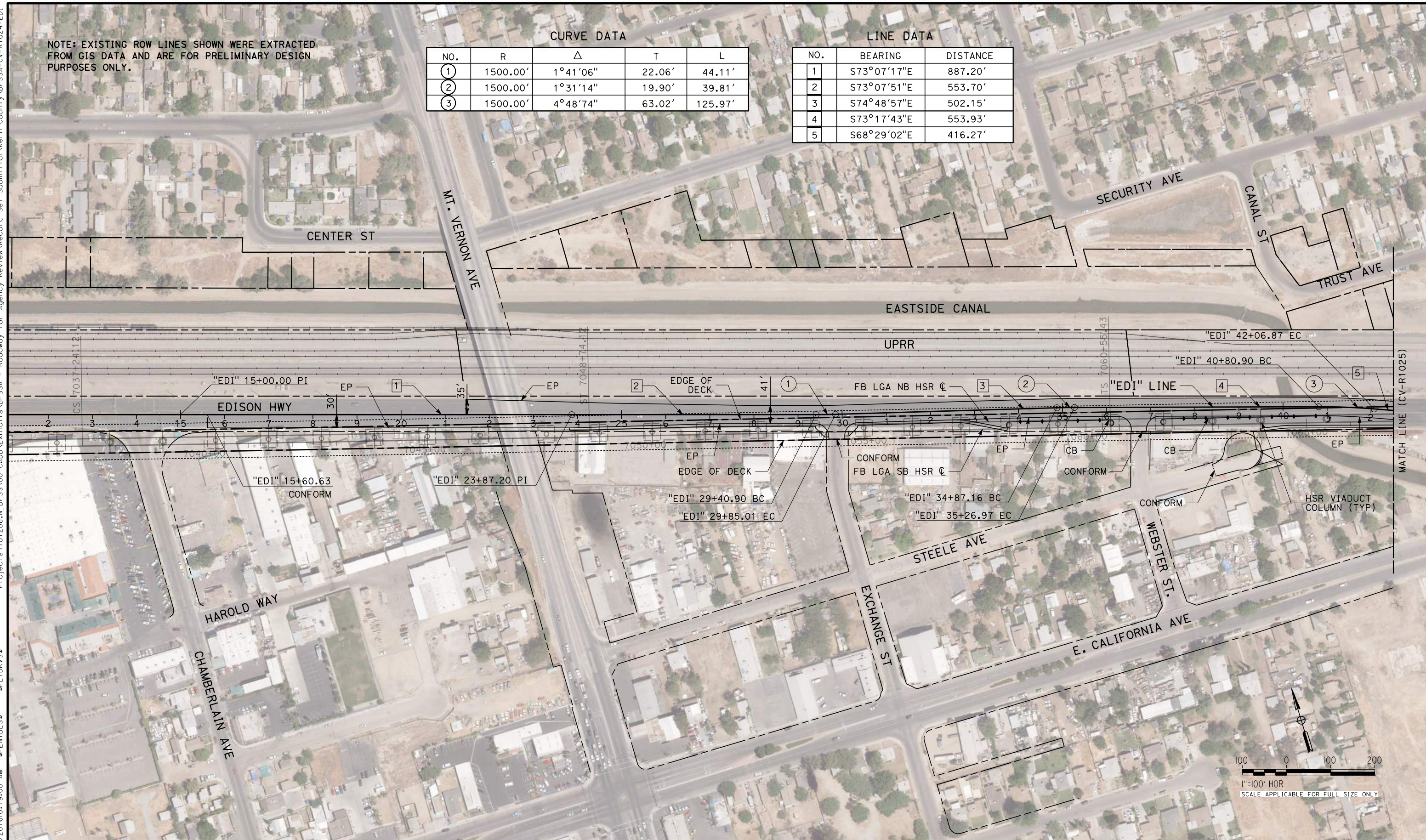
NOTE: EXISTING ROW LINES SHOWN WERE EXTRACTED FROM GIS DATA AND ARE FOR PRELIMINARY DESIGN PURPOSES ONLY.

CURVE DATA

NO.	R	Δ	T	L
①	1500.00'	1°41'06"	22.06'	44.11'
②	1500.00'	1°31'14"	19.90'	39.81'
③	1500.00'	4°48'74"	63.02'	125.97'

LINE DATA

NO.	BEARING	DISTANCE
1	S73°07'17"E	887.20'
2	S73°07'51"E	553.70'
3	S74°48'57"E	502.15'
4	S73°17'43"E	553.93'
5	S68°29'02"E	416.27'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON
DRAWN BY
T. WILKINSON
CHECKED BY
R. GONZALEZ
IN CHARGE
S. OLLO
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
ROADWAY LAYOUT
EDISON HIGHWAY

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-R1024
SCALE
AS SHOWN
SHEET NO.
60

TYLIN\corporate\11/28/2016\10:19:09 AM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N.BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set_Submittal\Kern County\BFSSA-CV-R1025-EDI

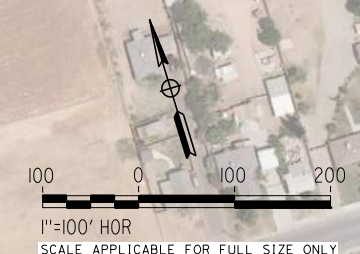
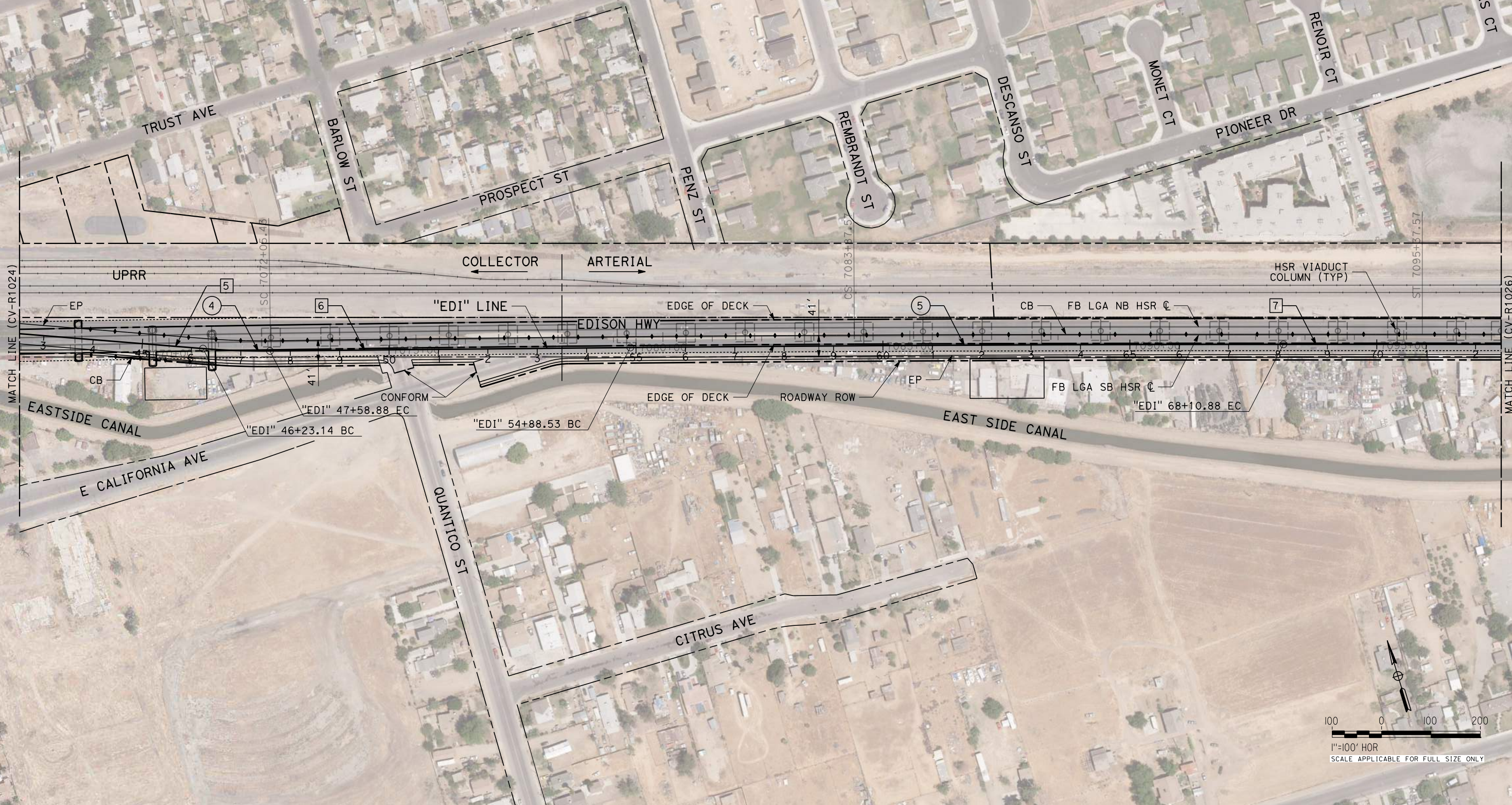
NOTE: EXISTING ROW LINES SHOWN WERE EXTRACTED FROM GIS DATA AND ARE FOR PRELIMINARY DESIGN PURPOSES ONLY.

CURVE DATA

NO.	R	Δ	T	L
4	1500.00'	5°11'05"	67.91'	135.74'
5	140000.00'	0°32'28"	661.18'	1322.35'

LINE DATA

NO.	BEARING	DISTANCE
5	S68°29'01"E	416.27'
6	S73°40'06"E	729.65'
7	S73°07'38"E	852.19'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON
DRAWN BY
T. WILKINSON
CHECKED BY
R. GONZALEZ
IN CHARGE
S. OLLO
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
ROADWAY LAYOUT
EDISON HIGHWAY

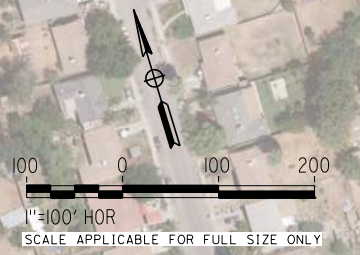
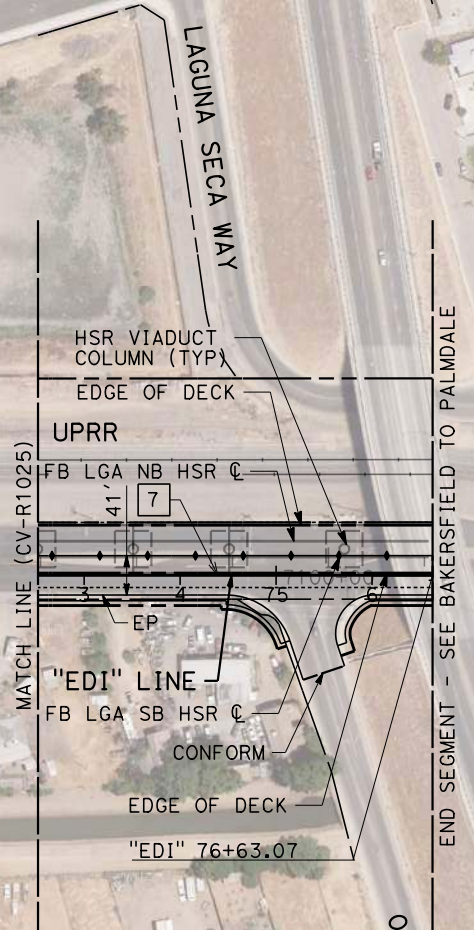
CONTRACT NO.
HSR13-44
DRAWING NO.
CV-R1025
SCALE
AS SHOWN
SHEET NO.
61

Projects\701206-N_BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set_Submittal\Kern County\BFSSA-CV-R1026-EDI

NOTE: EXISTING ROW LINES SHOWN WERE EXTRACTED FROM GIS DATA AND ARE FOR PRELIMINARY DESIGN PURPOSES ONLY.

LINE DATA

NO.	BEARING	DISTANCE
7	S73°07'38"E	852.19'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON
DRAWN BY
T. WILKINSON
CHECKED BY
R. GONZALEZ
IN CHARGE
S. OLLO
DATE
10/28/2016

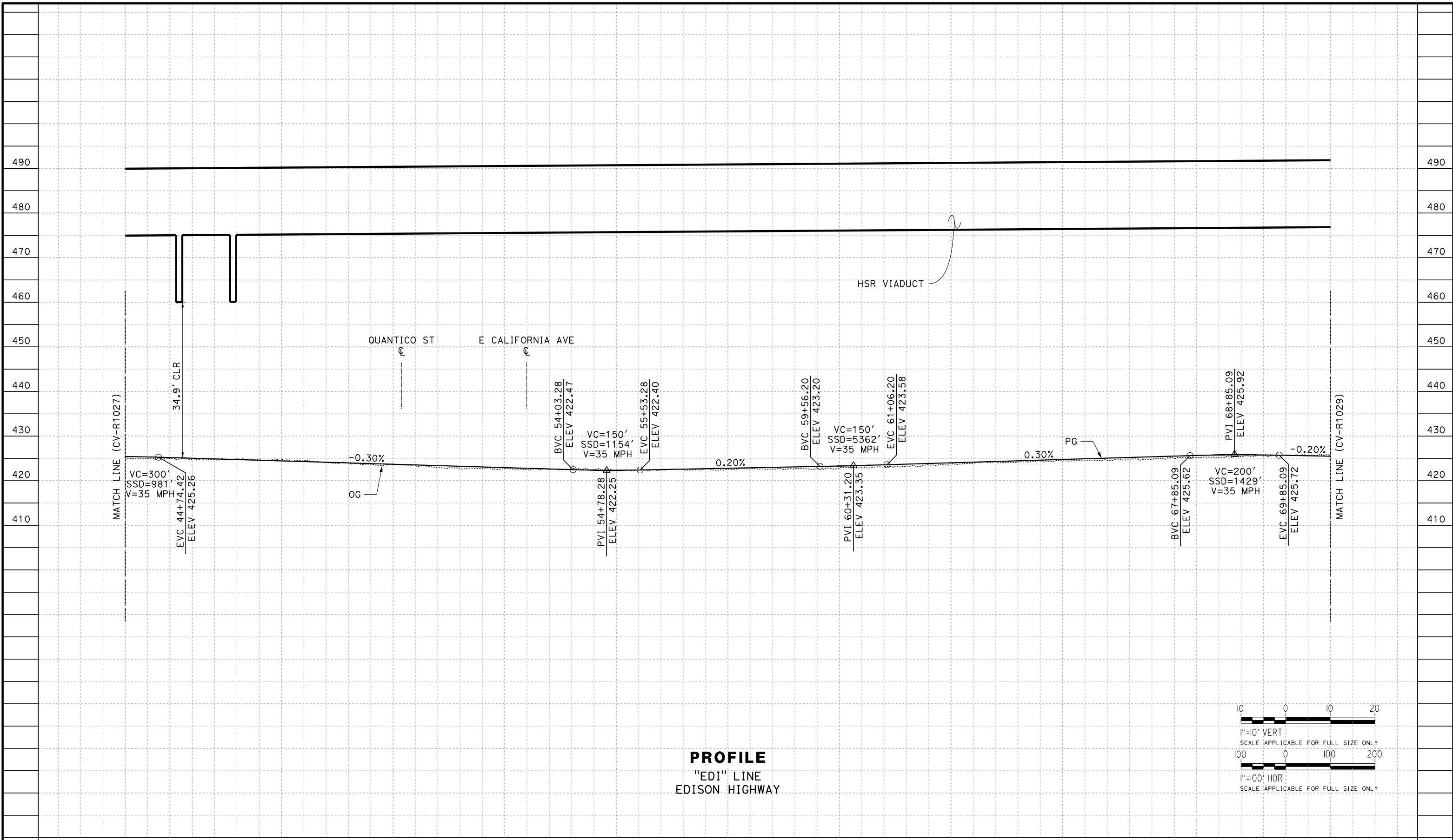
**RECORD SET
PEPD DESIGN
SUBMISSION**



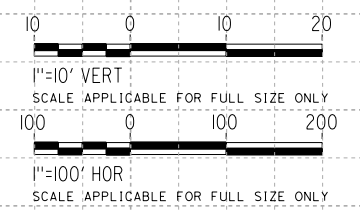
**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
ROADWAY LAYOUT
EDISON HIGHWAY

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-R1026
SCALE
AS SHOWN
SHEET NO.
62

TYL\rcor\11/28/2016\10:19:05 AM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N.BFSS\00 CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\Kern County\BFSSA-CV-R1028-EDI



PROFILE
"EDI" LINE
EDISON HIGHWAY



STATION 45+00 50+00 55+00 60+00 65+00 70+00 TOTAL

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON
DRAWN BY
T. WILKINSON
CHECKED BY
R. GONZALEZ
IN CHARGE
S. OLLO
DATE
08/10/2016

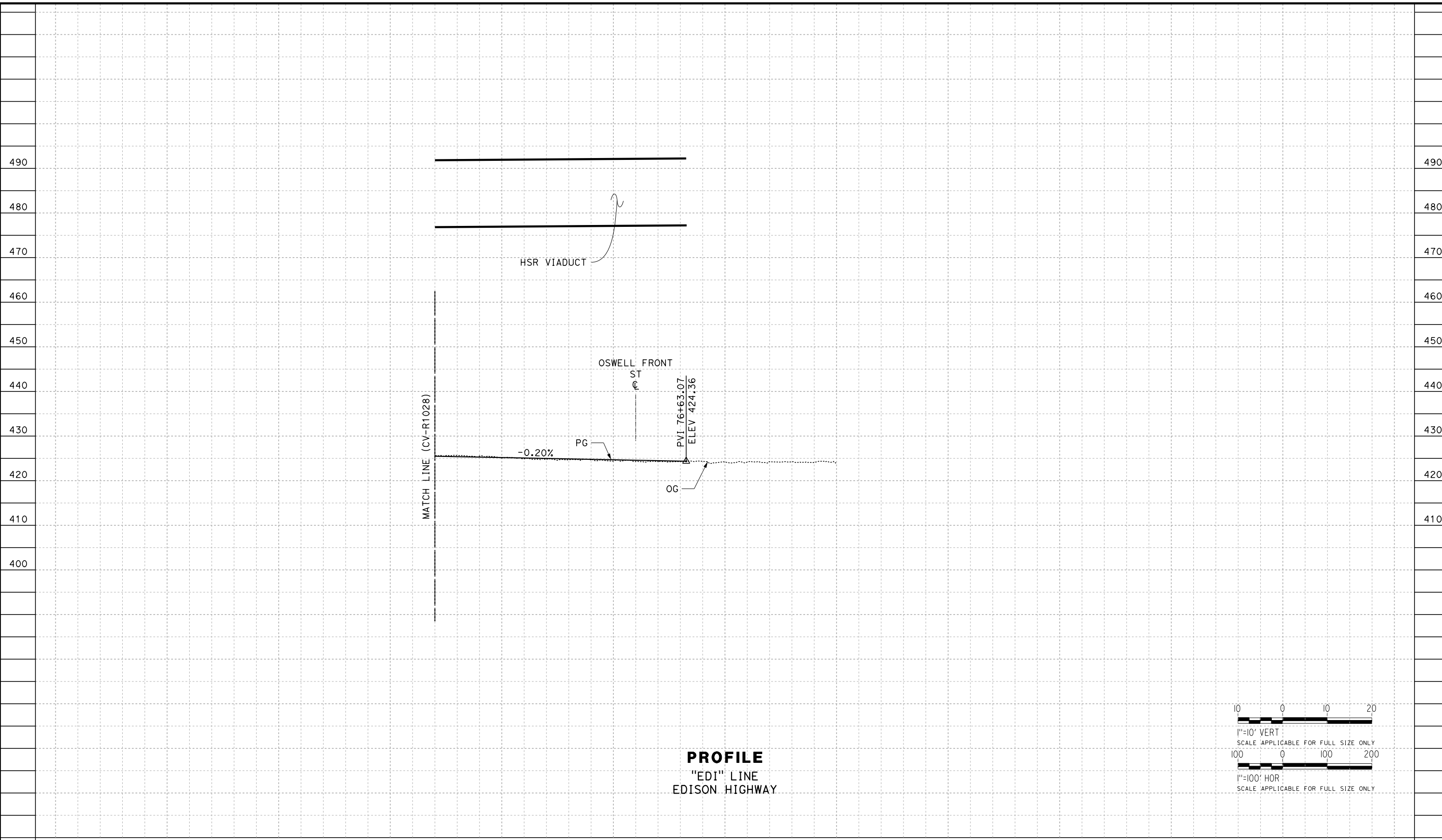
RECORD SET
PEPD DESIGN
SUBMISSION



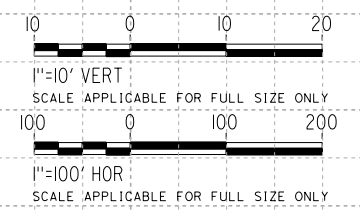
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
ROADWAY PROFILE
EDISON HIGHWAY

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-R1028
SCALE
AS SHOWN
SHEET NO.
64

TYL\rcor\11/28/2016 10:19:03 AM \$PENTBL\$.S\$ \$PLTDRV\$.S\$ Projects\701206.N_BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set_Submittal\Kern County\BFSSA-CV-R1029-EDI



PROFILE
"EDI" LINE
EDISON HIGHWAY



STATION					70+00	75+00	80+00	TOTAL		
					DESIGNED BY T. WILKINSON	RECORD SET PEPD DESIGN SUBMISSION				
					DRAWN BY T. WILKINSON					
					CHECKED BY R. GONZALEZ					CALIFORNIA HIGH-SPEED RAIL PROJECT FRESNO TO BAKERSFIELD LOCALLY GENERATED ALTERNATIVE ROADWAY PROFILE EDISON HIGHWAY
					IN CHARGE S. OLLO					
REV	DATE	BY	CHK	APP	DATE 10/28/2016					
DESCRIPTION										

Projects\701206.N.BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-T1041

CURVE DATA				
NO.	R	Δ	T	L
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③	127.00'	21°58'50"	24.66'	48.72'
④	127.00'	31°03'20"	35.29'	68.84'
⑤	82.00'	86°58'17"	77.78'	124.47'
⑥	82.00'	62°18'16"	49.57'	89.17'
⑦	127.00'	28°11'03"	31.88'	62.47'
⑧	127.00'	27°21'50"	30.92'	60.65'

LINE DATA		
NO.	BEARING	DISTANCE
1	S50°28'07"E	174.08'
2	S46°32'52"E	776.97'
4	N39°31'53"E	189.47'
5	S50°28'07"E	1138.73'
6	S65°14'25"E	60.18'
7	S43°15'34"E	294.45'
8	S74°18'54"E	183.38'
9	S12°39'23"W	41.11'
10	S49°38'53"E	773.22'
11	S77°49'56"E	173.72'
12	S50°28'07"E	1593.29'

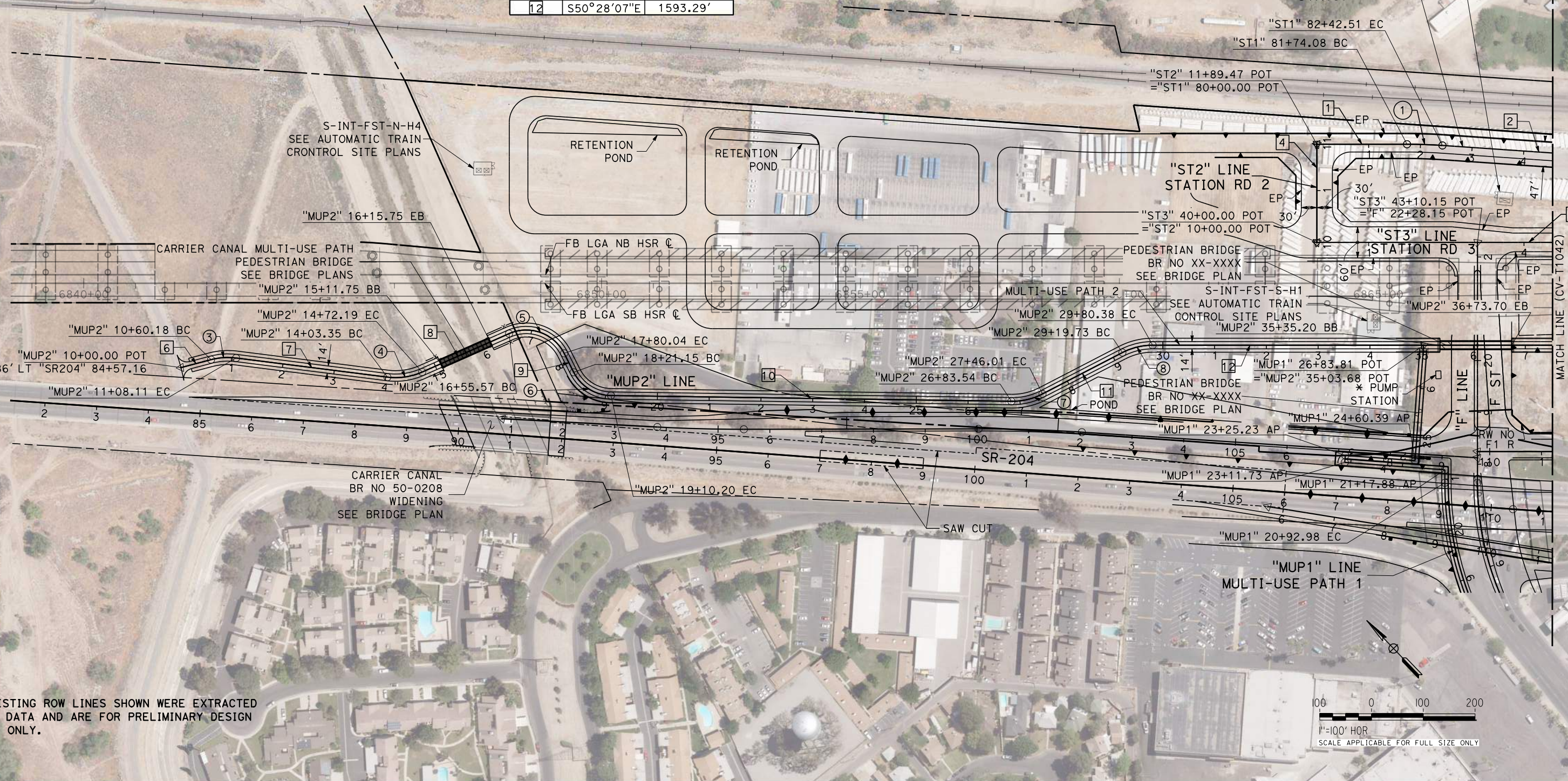
RETAINING WALL DATA				
NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
F1R	66.01' RT "F" 19+02.03	66.01' RT "F" 20+21.22	120'	25'

* 15' X 10' REINFORCED CONCRETE
PUMP STATION HOUSE
2 EACH - 60 HP PUMPS
EMERGENCY GENERATOR

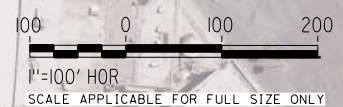
S-INT-FST-H2
SEE AUTOMATIC TRAIN
CONTROL SITE PLANS
"ST1" LINE
STATION RD 1

S-INT-FST-N-H4
SEE AUTOMATIC TRAIN
CONTROL SITE PLANS

S-INT-FST-S-H1
SEE AUTOMATIC TRAIN
CONTROL SITE PLANS



NOTE: EXISTING ROW LINES SHOWN WERE EXTRACTED FROM GIS DATA AND ARE FOR PRELIMINARY DESIGN PURPOSES ONLY.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK
DRAWN BY
P. DRULINER
CHECKED BY
R. GONZALEZ
IN CHARGE
S. OLLO
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
GRADE SEPARATION LAYOUT
STATION ROADWAY

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-T1041
SCALE
AS SHOWN
SHEET NO.
66

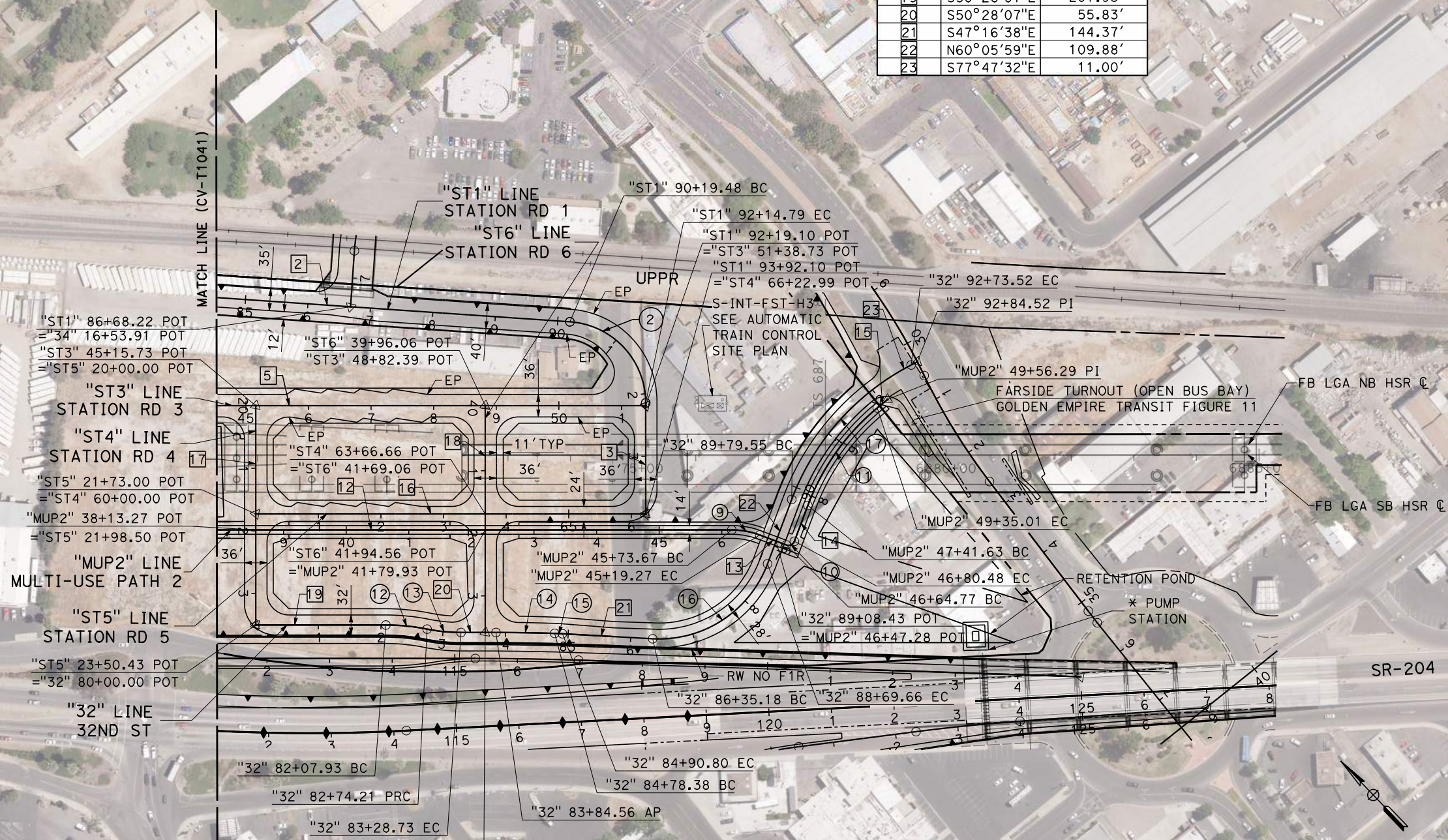
Projects\701206.N.BFSS\00.CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-T1042-
 \$PLTDRVS\$
 \$PENTBL\$
 TYLIN\carri\11/28/2016\11:52:16 AM

NOTE: EXISTING ROW LINES SHOWN WERE EXTRACTED FROM GIS DATA AND ARE FOR PRELIMINARY DESIGN PURPOSES ONLY.

* 15' X 10' REINFORCED CONCRETE PUMP STATION HOUSE
 2 EACH - 60 HP PUMPS
 EMERGENCY GENERATOR

CURVE DATA				
NO.	R	Δ	T	L
2	130.00'	86°04'46"	121.40'	195.31'
9	127.00'	20°34'18"	23.05'	45.60'
10	10.00'	90°00'00"	10.00'	15.71'
11	372.50'	29°44'42"	98.92'	193.38'
12	332.50'	11°25'16"	33.25'	66.28'
13	273.50'	11°25'16"	27.35'	54.52'
14	3041.50'	01°46'02"	46.91'	93.81'
15	500.00'	01°25'26"	6.21'	12.43'
16	185.00'	72°37'23"	135.95'	234.49'
17	400.00'	42°06'29"	153.98'	293.97'

LINE DATA		
NO.	BEARING	DISTANCE
2	S46°32'52"E	776.97'
3	S39°31'53"W	177.31'
5	S50°28'07"E	1138.73'
12	S50°28'07"E	1593.29'
13	S29°53'49"E	45.51'
14	N60°06'11"E	61.14'
15	N89°50'54"E	21.28'
16	S50°28'07"E	622.99'
17	S39°31'53"W	350.43'
18	S39°31'53"W	362.43'
19	S50°28'07"E	207.93'
20	S50°28'07"E	55.83'
21	S47°16'38"E	144.37'
22	N60°05'59"E	109.88'
23	S77°47'32"E	11.00'



NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
F1R	66.01' RT "F" 19+02.03	66.01' RT "F" 20+21.22	120'	25'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK
 DRAWN BY
P. DRULINER
 CHECKED BY
R. GONZALEZ
 IN CHARGE
S. OLLO
 DATE
10/28/2016

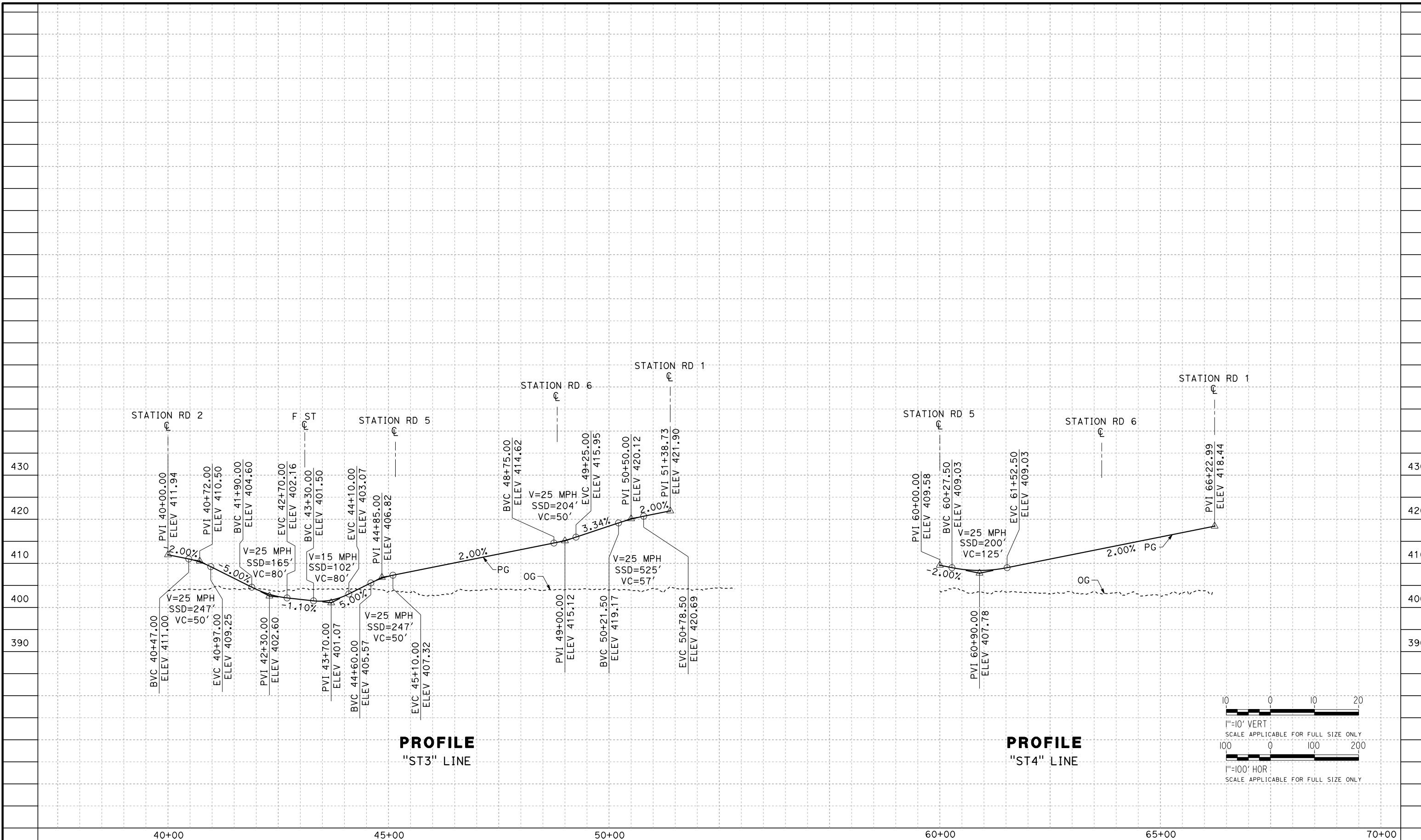
**RECORD SET
 PEPD DESIGN
 SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 GRADE SEPARATION LAYOUT
 STATION ROADWAY

CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-T1042
 SCALE
AS SHOWN
 SHEET NO.
67

TYL\rcor\1101128\2016\52108 AM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206_N_BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-T1044



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK
DRAWN BY
P. DRULINER
CHECKED BY
R. GONZALEZ
IN CHARGE
S. OLLO
DATE
10/28/2016

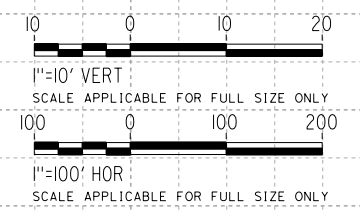
**RECORD SET
PEPD DESIGN
SUBMISSION**

TYLIN INTERNATIONAL

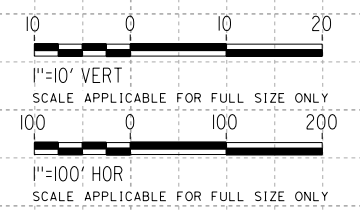
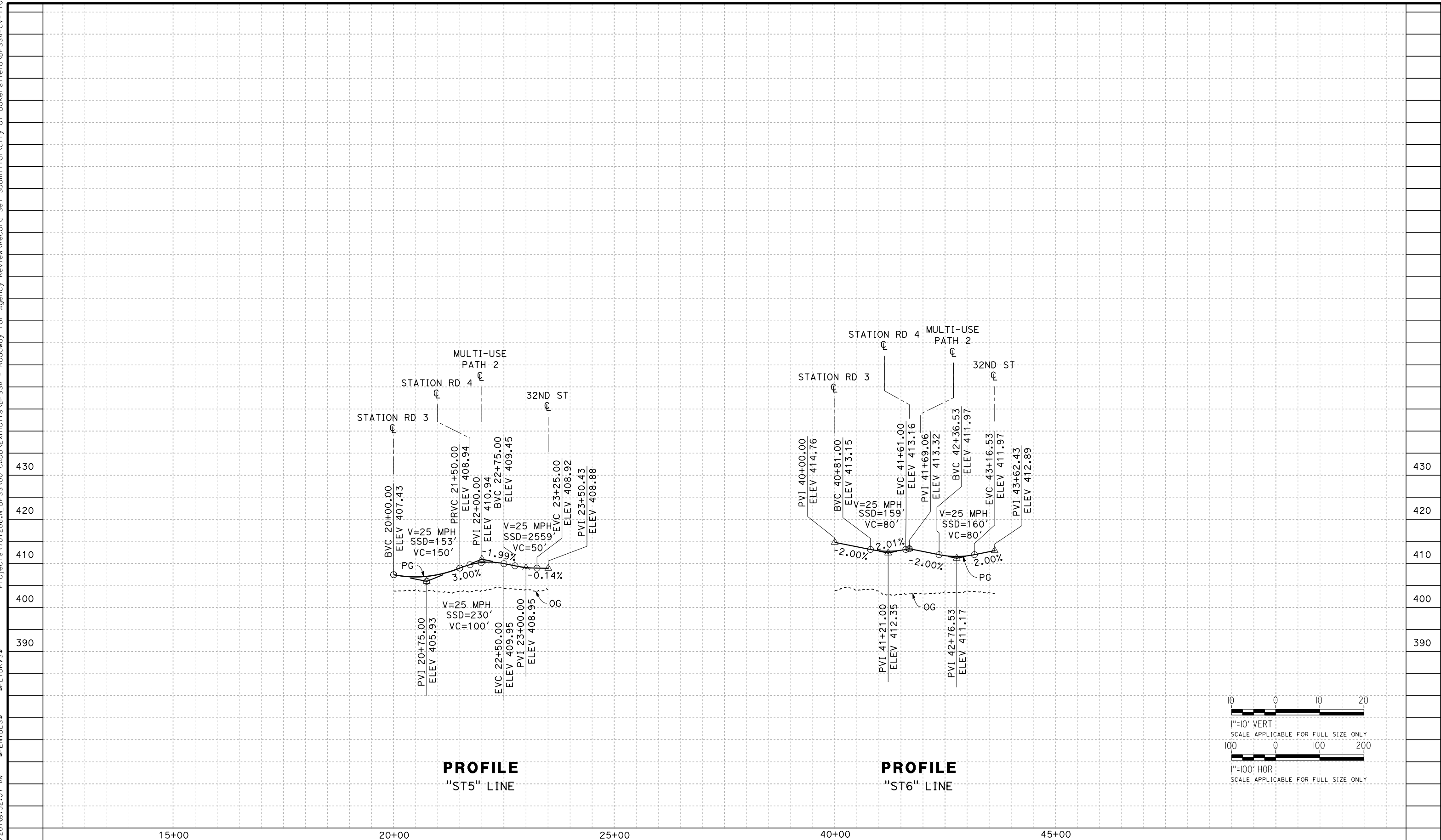


**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
GRADE SEPARATION PROFILE
STATION ROADWAY

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-T1044
SCALE
AS SHOWN
SHEET NO.
69



TYL\rcor\11011\28\2016\52:107 AM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206_N_BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-T1045



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK

DRAWN BY
P. DRULINER

CHECKED BY
R. GONZALEZ

IN CHARGE
S. OLLO

DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
GRADE SEPARATION PROFILE
STATION ROADWAY

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-T1045

SCALE
AS SHOWN

SHEET NO.
70

NOTE: EXISTING ROW LINES SHOWN WERE EXTRACTED FROM GIS DATA AND ARE FOR PRELIMINARY DESIGN PURPOSES ONLY.

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
340	42.70' LT "34" 17+88.89	55.37' RT "CHE" 20+26.71	660'	37.8'
341	25.50' RT "34" 18+14.63	43.50' RT "34" 22+19.25	393'	37.5'
342	171.65' RT "CHE" 23+44.10	77.59' RT "CHE" 24+33.18	182'	8.5'

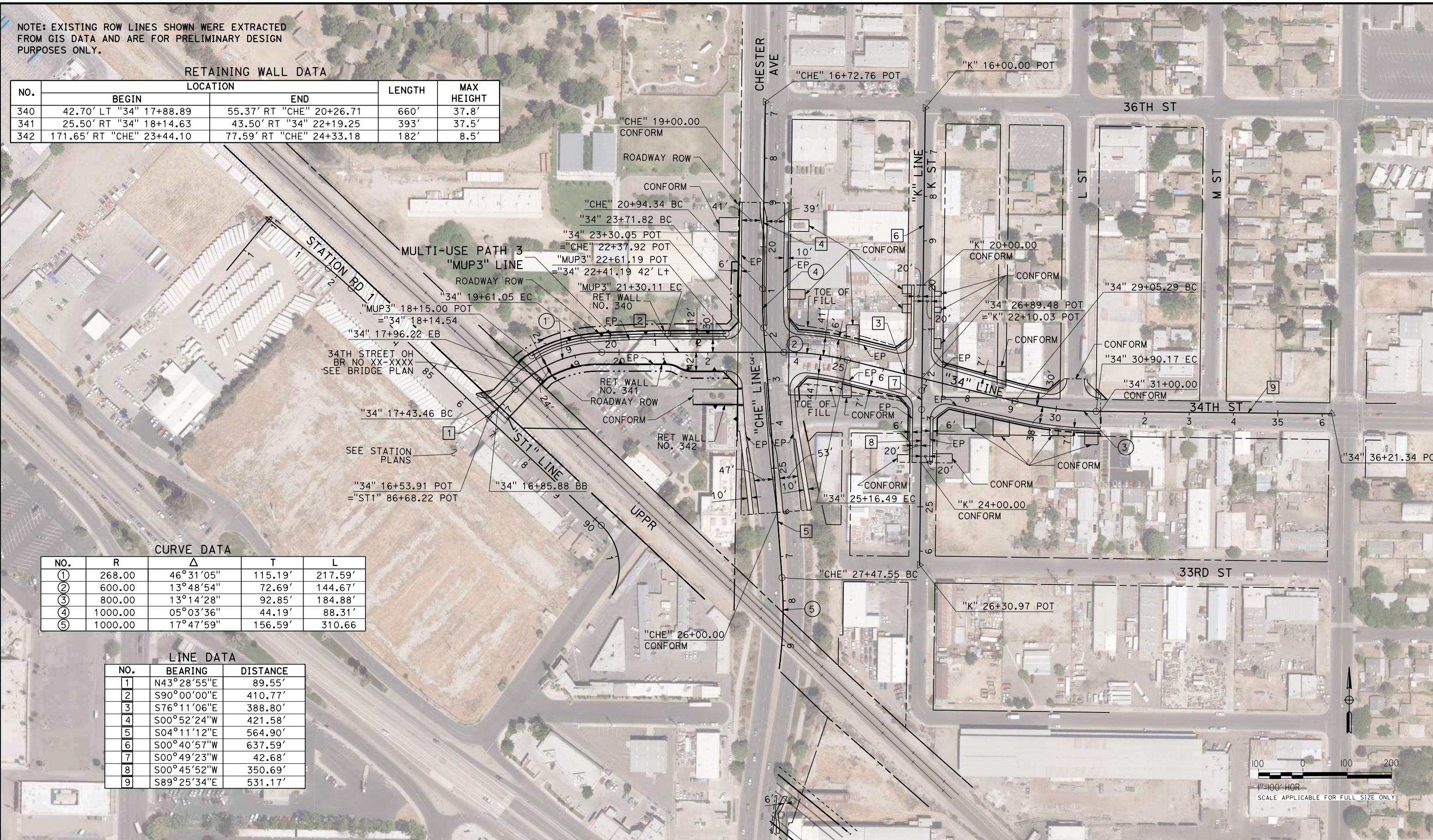
CURVE DATA

NO.	R	Δ	T	L
①	268.00	46°31'05"	115.19'	217.59'
②	600.00	13°48'54"	72.69'	144.67'
③	800.00	13°14'28"	92.85'	184.88'
④	1000.00	05°03'36"	44.19'	88.31'
⑤	1000.00	17°47'59"	156.59'	310.66'

LINE DATA

NO.	BEARING	DISTANCE
1	N43°28'55"E	89.55'
2	S90°00'00"E	410.77'
3	S76°11'06"E	388.80'
4	S00°52'24"W	421.58'
5	S04°11'12"E	564.90'
6	S00°40'57"W	637.59'
7	S00°49'23"W	42.68'
8	S00°45'52"W	350.69'
9	S89°25'34"E	531.17'

Projects\701206.N.BFSS\00 CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-T1050-SPLTDRVS\$ \$PENTBL\$ \$



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK
DRAWN BY
P. DRULINER
CHECKED BY
R. GONZALEZ
IN CHARGE
S. OLLO
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**

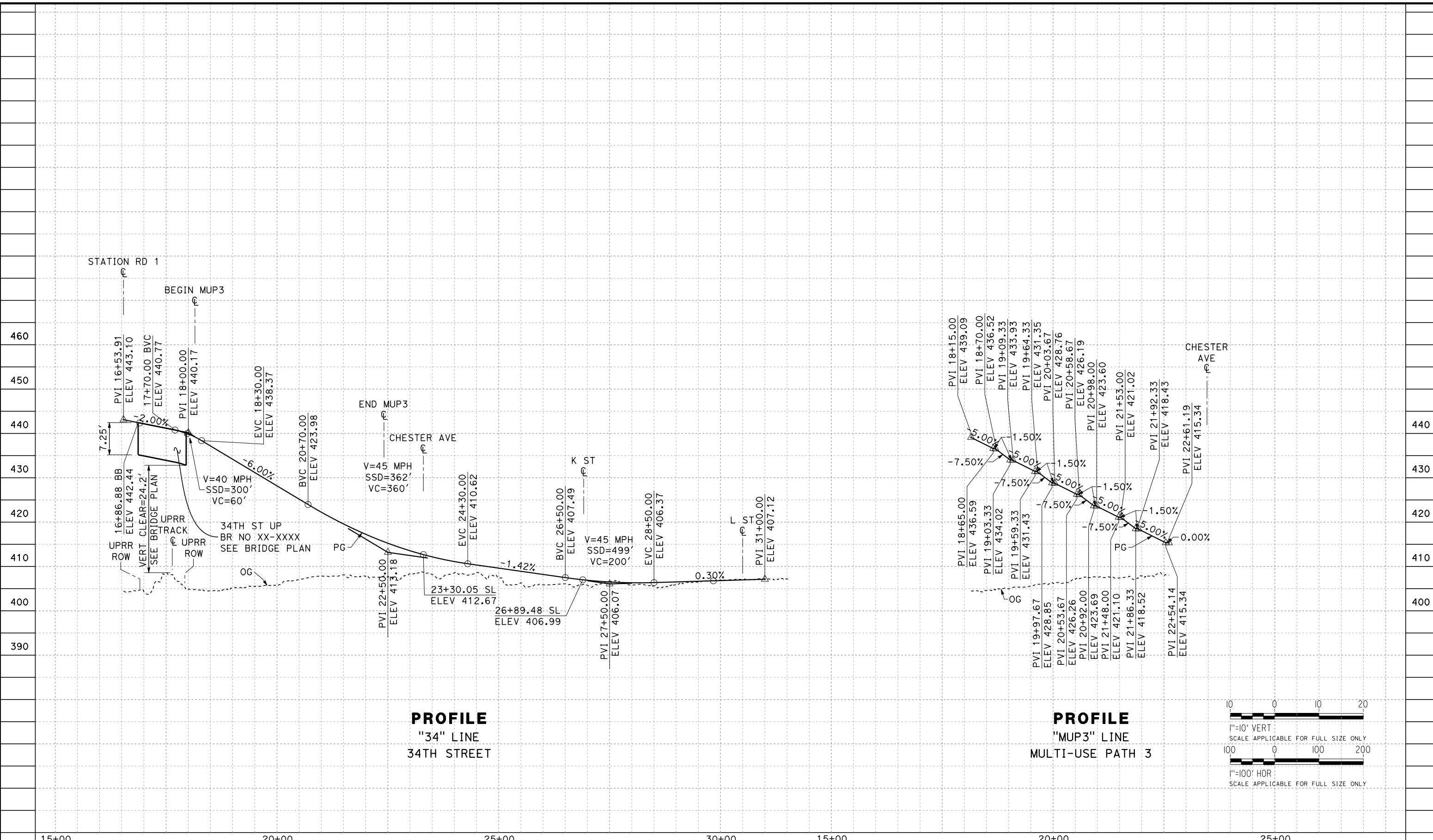
TYLIN INTERNATIONAL



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
GRADE SEPARATION LAYOUT
34TH STREET

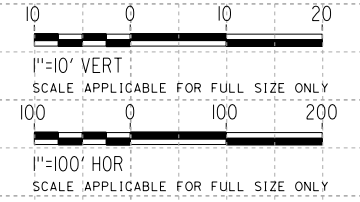
CONTRACT NO.
HSR13-44
DRAWING NO.
CV-T1050
SCALE
AS SHOWN
SHEET NO.
73

TYL\rcor\1101128\2016054:10 AM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206_N_BFSS\00_CADD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-T1051



PROFILE
"34" LINE
34TH STREET

PROFILE
"MUP3" LINE
MULTI-USE PATH 3



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
H. PARK
DRAWN BY
P. DRULINER
CHECKED BY
R. GONZALEZ
IN CHARGE
S. OLLO
DATE
10/28/2016

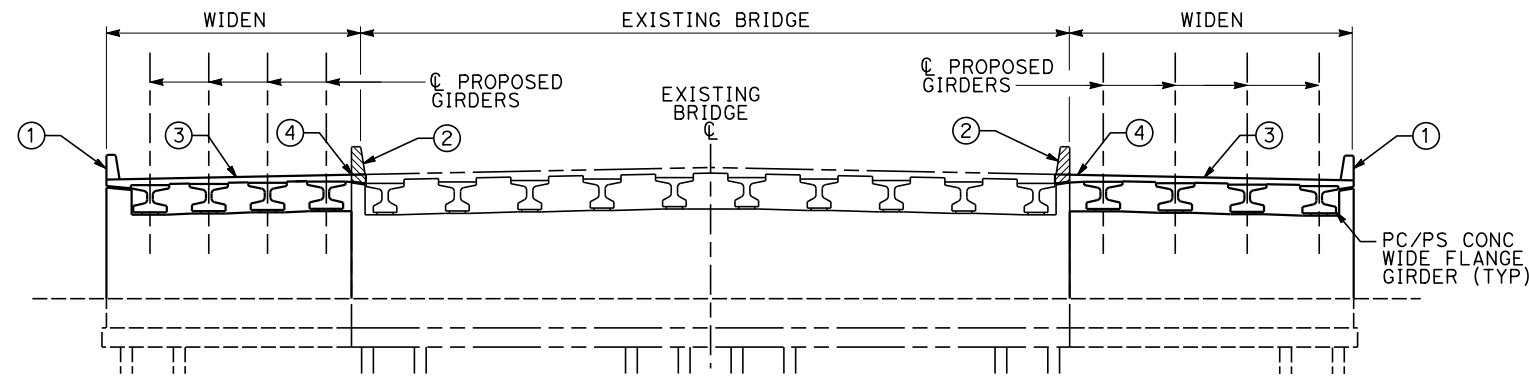
RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
GRADE SEPARATION PROFILE
34TH STREET

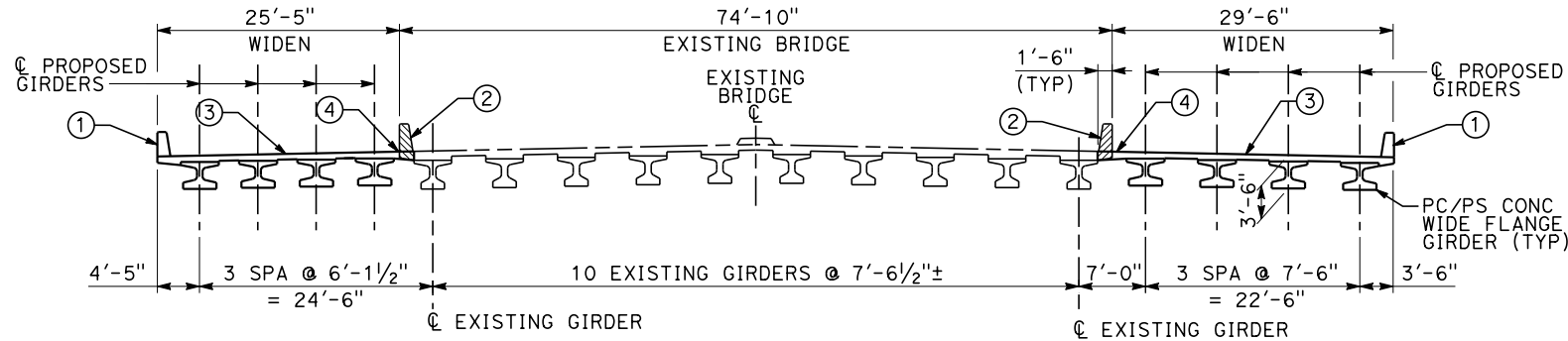
CONTRACT NO.
HSR13-44
DRAWING NO.
CV-T1051
SCALE
AS SHOWN
SHEET NO.
74

Projects\701206.N.BFSS\00 CAD\Drawings\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-T7013



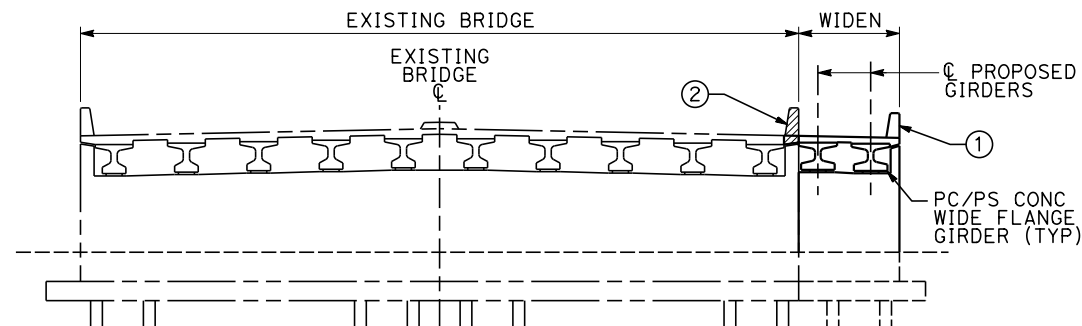
ABUTMENT 1 ELEVATION

SCALE: 1"=10'



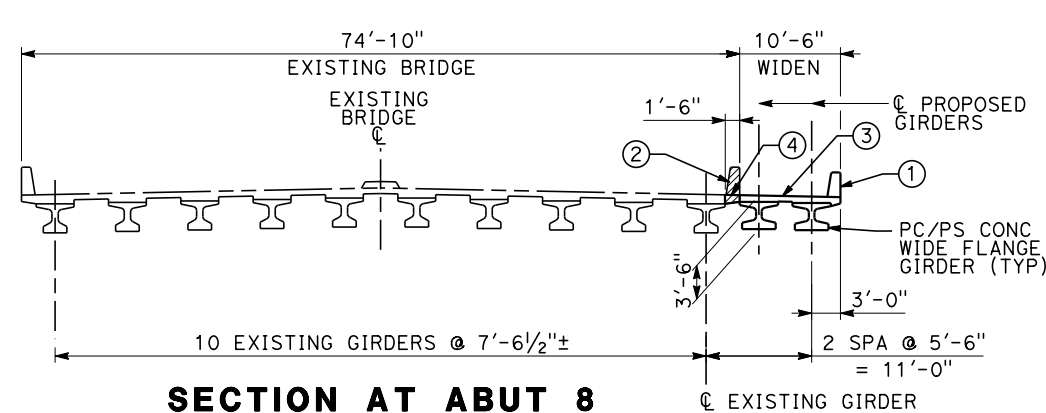
SECTION AT ABUT 1

SCALE: 1"=10'



ABUTMENT 8 ELEVATION

SCALE: 1"=10'

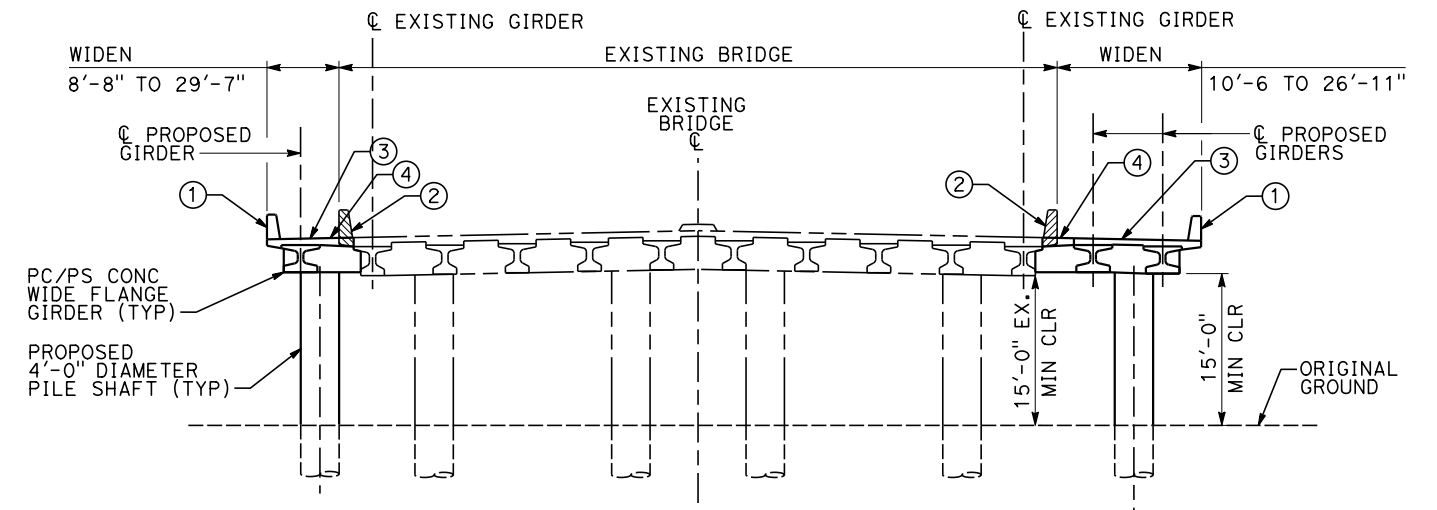


SECTION AT ABUT 8

SCALE: 1"=10'

NOTES

- ① CALTRANS CONCRETE BARRIER TYPE 732 (MOD)
- ② SAWCUT AND REMOVE EXISTING BARRIER AND PORTION OF BRIDGE DECK
- ③ MATCH EXISTING DECK SLOPE
- ④ CLOSURE POUR



TYPICAL BENT ELEVATION

SCALE: 1"=10'

NOTE: BENT 5 SHOWN. OTHER BENTS SIMILAR.

REV	DATE	BY	CHK	APP	DESCRIPTION

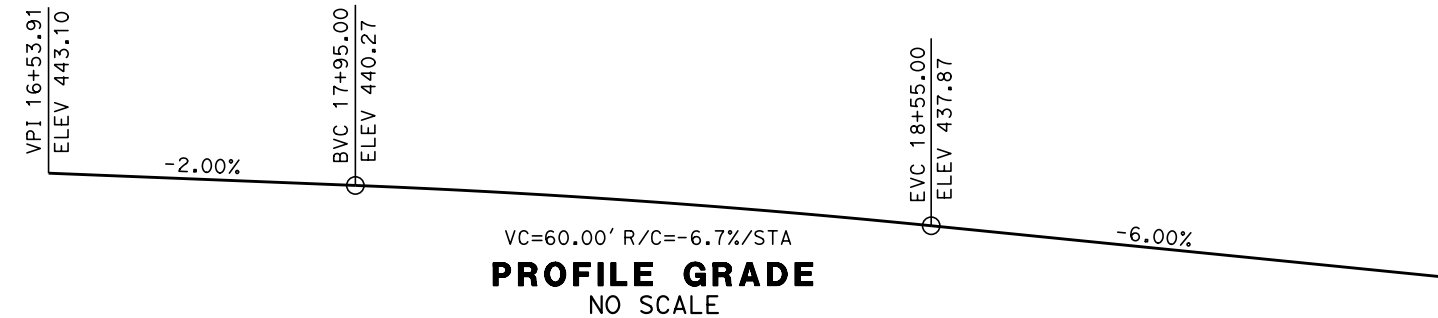
DESIGNED BY
M. GOLJI
DRAWN BY
P. ZUCCHI
CHECKED BY
K. PIRBAZARI
IN CHARGE
K. PIRBAZARI
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



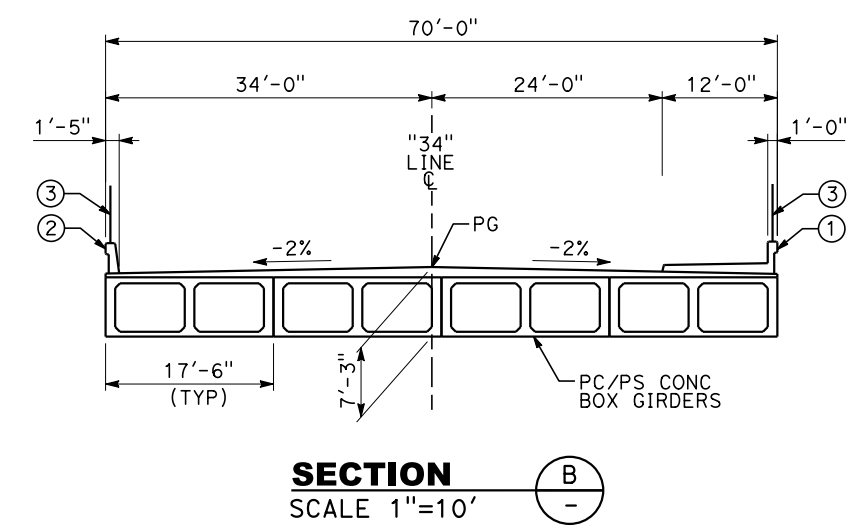
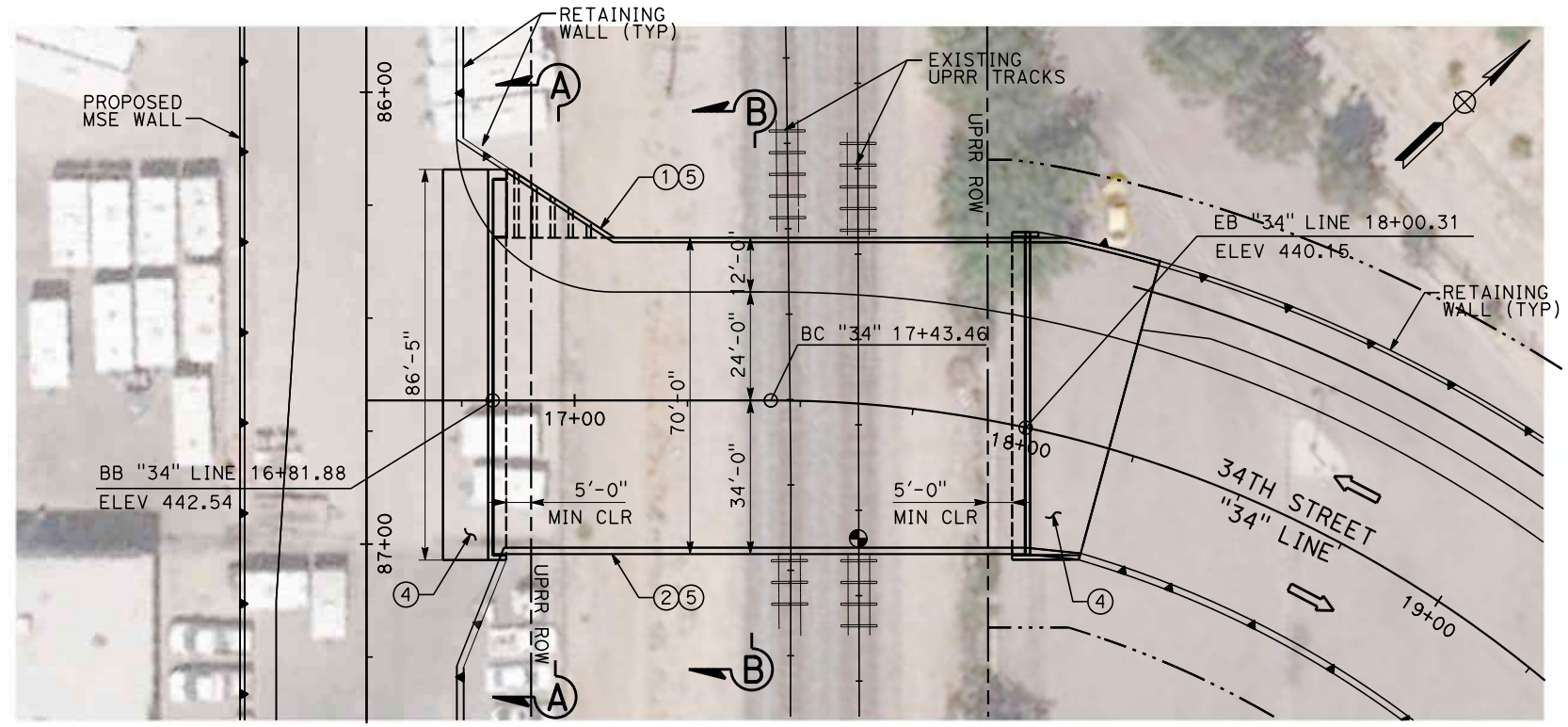
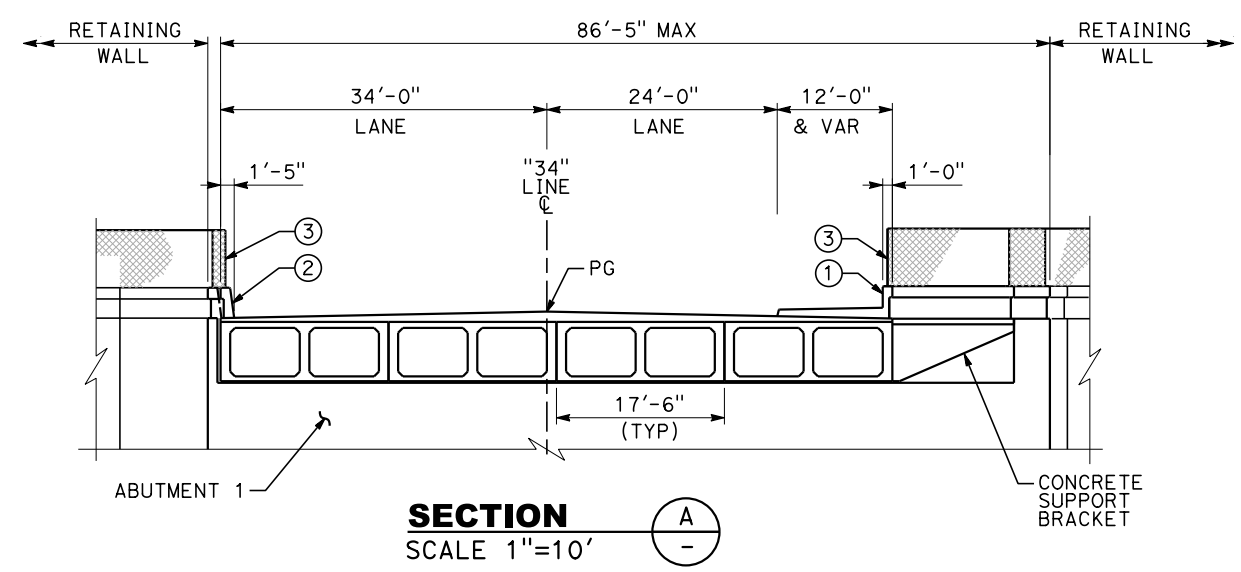
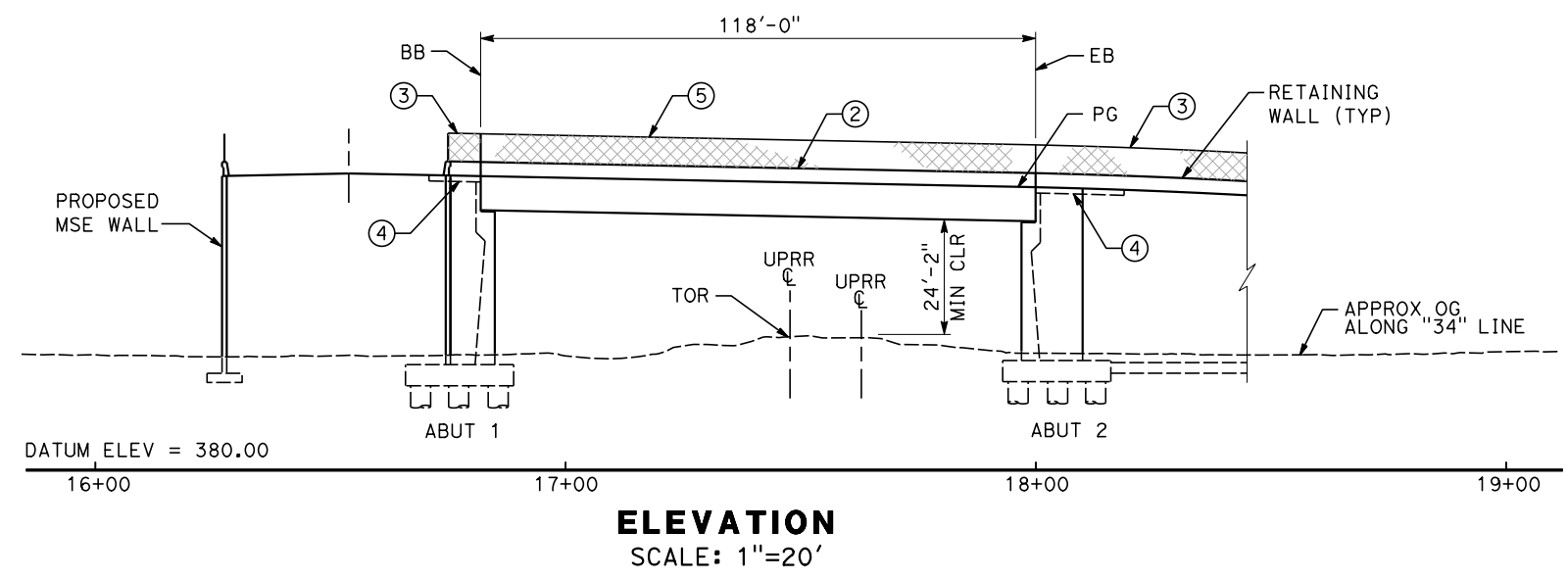
**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACK STRUCTURES / ROADWAY
DRAFT SECTIONS
CHESTER AVE UC

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-T7013
SCALE
AS SHOWN
SHEET NO.
78



- NOTES**
- ① CALTRANS CONCRETE BARRIER TYPE 26 (MOD)
 - ② CALTRANS CONCRETE BARRIER TYPE 732 (MOD)
 - ③ CALTRANS CHAIN LINK RAILING TYPE 7
 - ④ CALTRANS STRUCTURE APPROACH TYPE N (30S)
 - ⑤ CALTRANS CHAIN LINK RAILING TYPE 7 (MOD) MODIFIED FOR A 10'-0" MINIMUM COMBINED HEIGHT OF FENCE ON BARRIER OVER UPRR ROW

LEGEND
 INDICATES UPRR RAILROAD



NOTE: ABUTMENT NOT SHOWN FOR CLARITY.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. GOLJI
 DRAWN BY
P. ZUCCHI
 CHECKED BY
K. PIRBAZARI
 IN CHARGE
K. PIRBAZARI
 DATE
10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION

TYLIN INTERNATIONAL



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACK STRUCTURES / ROADWAY
 DRAFT GENERAL PLAN
 34TH STREET

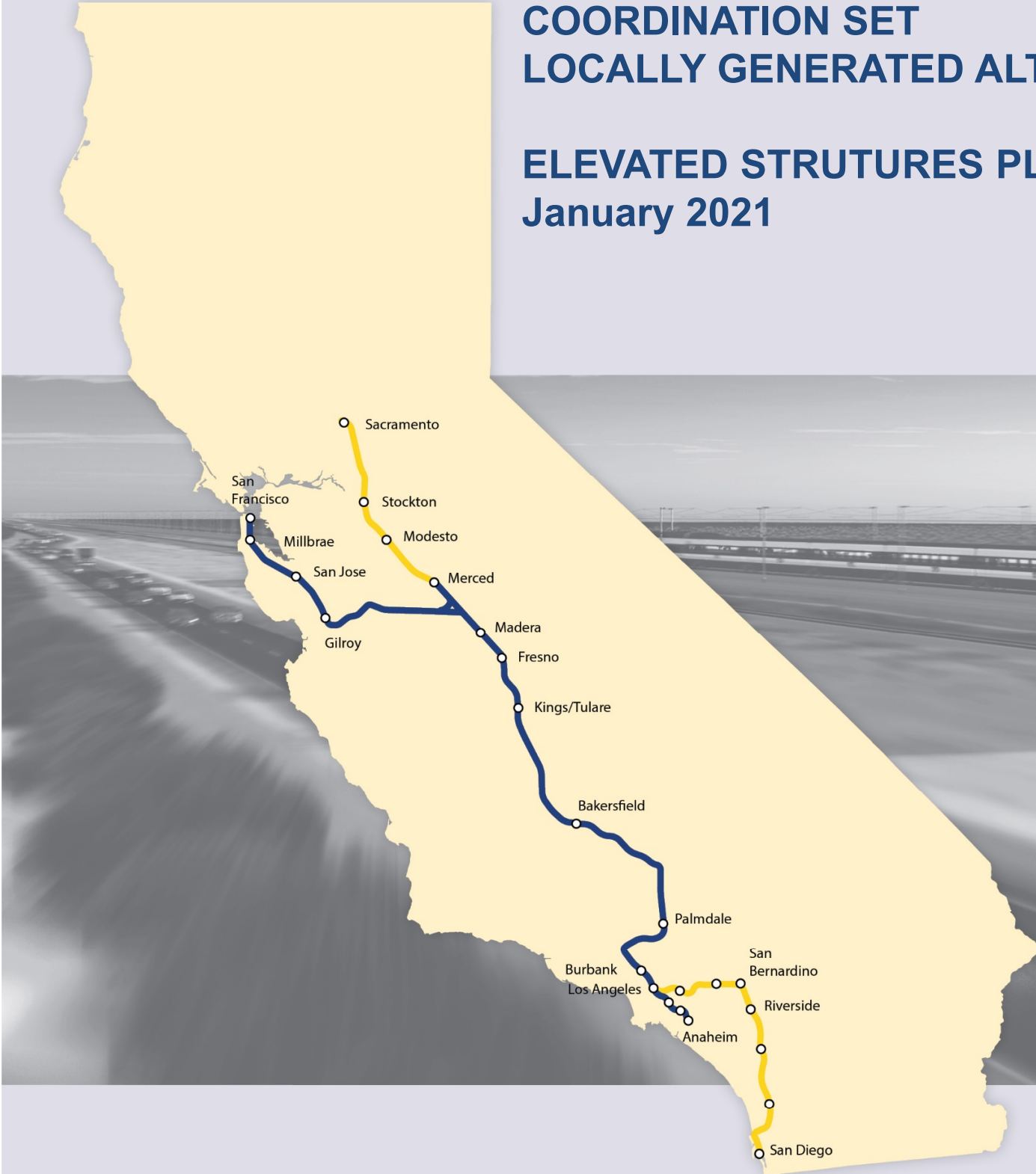
CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-T7018
 SCALE
AS SHOWN
 SHEET NO.
79

Projects\701206.N.BFSS\00 CAD\Exhibits\BFSSA - Roadway For Agency Review\Record Set Submittal\City of Bakersfield\BFSSA-CV-T7018
 \$PLTDRVS\$
 \$PENTBL\$
 \$DATE: 11/28/2016 11:54:20 AM

Fresno to Bakersfield

COORDINATION SET
LOCALLY GENERATED ALTERNATIVE (LGA)

ELEVATED STRUTURES PLANS
January 2021



STRUCTURES PLANS

DRAWING NO.	REV NO.	DRAWING DESCRIPTION
		STRUCTURES COVER SHEET
ST-B0001		INDEX TO STRUCTURES DRAWINGS
ST-B0002		GENERAL NOTES AND LEGEND
ST-B0003		KEY MAP SHEET 1 OF 3
ST-B0004		KEY MAP SHEET 2 OF 3
ST-B0005		KEY MAP SHEET 3 OF 3
ST-B0006		TYPICAL SECTION SHEET 1 OF 9
ST-B0007		TYPICAL SECTION SHEET 2 OF 9
ST-B0008		TYPICAL SECTION SHEET 3 OF 9
ST-B0009		TYPICAL SECTION SHEET 4 OF 9
ST-B0010		TYPICAL SECTION SHEET 5 OF 9
ST-B0011		TYPICAL SECTION SHEET 6 OF 9
ST-B0012		TYPICAL SECTION SHEET 7 OF 9
ST-B0013		TYPICAL SECTION SHEET 8 OF 9
ST-B0014		TYPICAL SECTION SHEET 9 OF 9
ST-J1001		COFFEE RD VIADUCT HST STATION 6542+00 TO 6552+00 PLAN AND ELEVATION
ST-J1002		COFFEE RD VIADUCT HST STATION 6552+00 TO 6562+00 PLAN AND ELEVATION
ST-J1003		COFFEE RD VIADUCT HST STATION 6562+00 TO 6572+00 PLAN AND ELEVATION
ST-J1004		COFFEE RD VIADUCT HST STATION 6572+00 TO 6582+00 PLAN AND ELEVATION
ST-J1005		COFFEE RD VIADUCT HST STATION 6582+00 TO 6592+00 PLAN AND ELEVATION
ST-J1006		COFFEE RD VIADUCT HST STATION 6592+00 TO 6602+00 PLAN AND ELEVATION
ST-J1007		COFFEE RD VIADUCT HST STATION 6602+00 TO 6612+00 PLAN AND ELEVATION
ST-J1008		COFFEE RD VIADUCT HST STATION 6612+00 TO 6622+00 PLAN AND ELEVATION
ST-J1009		COFFEE RD VIADUCT HST STATION 6622+00 TO 6632+00 PLAN AND ELEVATION
ST-J1010		COFFEE RD VIADUCT HST STATION 6632+00 TO 6642+00 PLAN AND ELEVATION
ST-J1011		COFFEE RD VIADUCT HST STATION 6642+00 TO 6652+00 PLAN AND ELEVATION
ST-J1012		COFFEE RD VIADUCT HST STATION 6652+00 TO 6662+00 PLAN AND ELEVATION
ST-J1013		COFFEE RD VIADUCT HST STATION 6662+00 TO 6674+00 PLAN AND ELEVATION
ST-J1014		BAKERSFIELD HST VIADUCT STATION 6692+00 TO 6702+00 PLAN AND ELEVATION
ST-J1015		BAKERSFIELD HST VIADUCT STATION 6702+00 TO 6712+00 PLAN AND ELEVATION
ST-J1016		BAKERSFIELD HST VIADUCT STATION 6712+00 TO 6722+00 PLAN AND ELEVATION
ST-J1017		BAKERSFIELD HST VIADUCT STATION 6722+00 TO 6732+00 PLAN AND ELEVATION
ST-J1018		BAKERSFIELD HST VIADUCT STATION 6732+00 TO 6742+00 PLAN AND ELEVATION
ST-J1019		BAKERSFIELD HST VIADUCT STATION 6742+00 TO 6752+00 PLAN AND ELEVATION
ST-J1020		BAKERSFIELD HST VIADUCT STATION 6752+00 TO 6762+00 PLAN AND ELEVATION
ST-J1021		BAKERSFIELD HST VIADUCT STATION 6762+00 TO 6772+00 PLAN AND ELEVATION
ST-J1022		BAKERSFIELD HST VIADUCT STATION 6772+00 TO 6782+00 PLAN AND ELEVATION
ST-J1023		BAKERSFIELD HST VIADUCT STATION 6782+00 TO 6792+00 PLAN AND ELEVATION
ST-J1024		BAKERSFIELD HST VIADUCT STATION 6792+00 TO 6802+00 PLAN AND ELEVATION
ST-J1025		BAKERSFIELD HST VIADUCT STATION 6802+00 TO 6812+00 PLAN AND ELEVATION
ST-J1026		BAKERSFIELD HST VIADUCT STATION 6812+00 TO 6822+00 PLAN AND ELEVATION
ST-J1027		BAKERSFIELD HST VIADUCT STATION 6822+00 TO 6832+00 PLAN AND ELEVATION
ST-J1028		BAKERSFIELD HST VIADUCT STATION 6832+00 TO 6842+00 PLAN AND ELEVATION
ST-J1029		BAKERSFIELD HST VIADUCT STATION 6842+00 TO 6852+00 PLAN AND ELEVATION

DRAWING NO.	REV NO.	DRAWING DESCRIPTION
ST-J1030		BAKERSFIELD HST VIADUCT STATION 6852+00 TO 6862+00 PLAN AND ELEVATION
ST-J1031		BAKERSFIELD HST VIADUCT STATION 6862+00 TO 6872+00 PLAN AND ELEVATION
ST-J1032		BAKERSFIELD HST VIADUCT STATION 6872+00 TO 6882+00 PLAN AND ELEVATION
ST-J1033		BAKERSFIELD HST VIADUCT STATION 6882+00 TO 6892+00 PLAN AND ELEVATION
ST-J1034		BAKERSFIELD HST VIADUCT STATION 6892+00 TO 6902+00 PLAN AND ELEVATION
ST-J1035		BAKERSFIELD HST VIADUCT STATION 6902+00 TO 6912+00 PLAN AND ELEVATION
ST-J1036		BAKERSFIELD HST VIADUCT STATION 6912+00 TO 6922+00 PLAN AND ELEVATION
ST-J1037		BAKERSFIELD HST VIADUCT STATION 6922+00 TO 6932+00 PLAN AND ELEVATION
ST-J1038		BAKERSFIELD HST VIADUCT STATION 6932+00 TO 6942+00 PLAN AND ELEVATION
ST-J1039		BAKERSFIELD HST VIADUCT STATION 6942+00 TO 6952+00 PLAN AND ELEVATION
ST-J1040		BAKERSFIELD HST VIADUCT STATION 6952+00 TO 6962+00 PLAN AND ELEVATION
ST-J1041		BAKERSFIELD HST VIADUCT STATION 6962+00 TO 6972+00 PLAN AND ELEVATION
ST-J1042		BAKERSFIELD HST VIADUCT STATION 6972+00 TO 6982+00 PLAN AND ELEVATION
ST-J1043		BAKERSFIELD HST VIADUCT STATION 6982+00 TO 6992+00 PLAN AND ELEVATION
ST-J1044		BAKERSFIELD HST VIADUCT STATION 6992+00 TO 7002+00 PLAN AND ELEVATION
ST-J1045		BAKERSFIELD HST VIADUCT STATION 7002+00 TO 7012+00 PLAN AND ELEVATION
ST-J1046		BAKERSFIELD HST VIADUCT STATION 7012+00 TO 7022+00 PLAN AND ELEVATION
ST-J1047		BAKERSFIELD HST VIADUCT STATION 7022+00 TO 7032+00 PLAN AND ELEVATION
ST-J1048		BAKERSFIELD HST VIADUCT STATION 7032+00 TO 7042+00 PLAN AND ELEVATION
ST-J1049		BAKERSFIELD HST VIADUCT STATION 7042+00 TO 7052+00 PLAN AND ELEVATION
ST-J1050		BAKERSFIELD HST VIADUCT STATION 7052+00 TO 7062+00 PLAN AND ELEVATION
ST-J1051		BAKERSFIELD HST VIADUCT STATION 7062+00 TO 7072+00 PLAN AND ELEVATION
ST-J1052		BAKERSFIELD HST VIADUCT STATION 7072+00 TO 7082+00 PLAN AND ELEVATION
ST-J1053		BAKERSFIELD HST VIADUCT STATION 7082+00 TO 7092+00 PLAN AND ELEVATION
ST-J1054		BAKERSFIELD HST VIADUCT STATION 7092+00 TO 7102+00 PLAN AND ELEVATION

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
N. METWASHLA
DRAWN BY
D. WILEY
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

**RECORD SET
PEPD DESIGN
SUBMISSION**

TYLIN INTERNATIONAL



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
INDEX OF DRAWINGS

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-B0001
SCALE
AS SHOWN
SHEET NO.
81

TYLIN\KBeRfy 10/18/2016 11:11:26 AM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N_BFSS\00_CADD\Sheet_Files\Track_Structure_Sheets\BFSSA-ST-B0002

LEGEND

	SECTION NUMBER		COLUMN
	NORTH ARROW		INDICATES DIRECTION OF TRAVEL
HSR	HIGH-SPEED RAIL		GUIDEWAY RIGHT OF WAY
CIP	CAST IN PLACE		GUIDEWAY EASEMENT
PC	PRECAST		TOE/TOP OF FILL
P/S	PRESTRESSED		PTEF
CIDH	CAST-IN-DRILLED HOLE		PPEF
PPEF	PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT		RETAINING WALL
PTEF	PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT		
℄	CENTERLINE		
R	ROLLER BEARING		
F	FIXED BEARING		
BB	BEGIN BRIDGE		
EB	END BRIDGE		
NB	NORTHBOUND		
SB	SOUTHBOUND		
PROP	PROPOSED		
ROW	RIGHT-OF-WAY		
ELEV	ELEVATION		
TYP	TYPICAL		
TOF	TOP OF FOOTING		
	METAL BEAM GUARD RAIL		
	LOCATION OF MINIMUM VERTICAL CLEARANCE		
	PLATFORM		
	PILE FOOTING		
	CIDH PILE		

GENERAL NOTES

1. FOR UTILITIES, SEE UTILITIES PLAN. IN GENERAL UTILITIES IN CONFLICT WITH FOUNDATION WILL BE RELOCATED.
2. FOR DETAILS NOT NOTED ON PLAN AN ELEVATION SHEETS, SEE TYPICAL SECTION SHEETS.
3. GRADE ELEVATIONS SHOWN ARE AT TOP OF RAIL.
4. ALL COLUMNS ARE NORMAL TO THE STATION LINE UNLESS OTHERWISE SHOWN.
5. REFER TO TRACK ALIGNMENT DRAWINGS FOR LAYOUT INFORMATION.
6. NOT ALL PILES ARE SHOWN.
7. PILE LENGTHS TO BE DETERMINED.
8. BEARINGS ARTICULATION FOR SIMPLE SPANS ARE FIXED-ROLLER AT OPPOSING SPAN ENDS UNLESS OTHERWISE NOTED.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
N. METWASHLA

DRAWN BY
D. WILEY

CHECKED BY
S. DULOR

IN CHARGE
S. DULOR

DATE
10/28/16

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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 GENERAL NOTES AND LEGEND

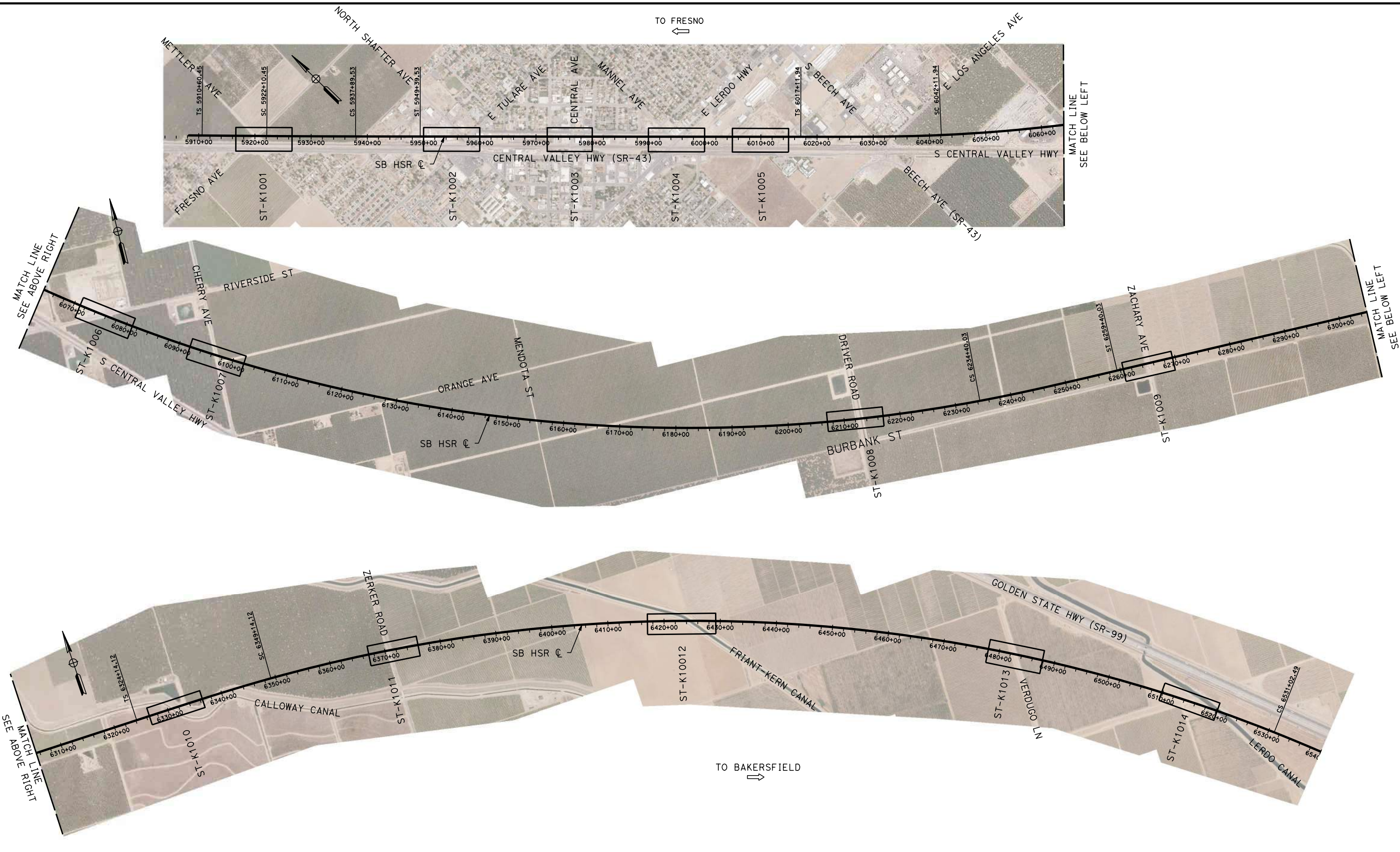
CONTRACT NO.
HSR13-44

DRAWING NO.
ST-B0002

SCALE
AS SHOWN

SHEET NO.
82

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D. WILEY
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IN CHARGE
S. DULOR
DATE
02/06/17

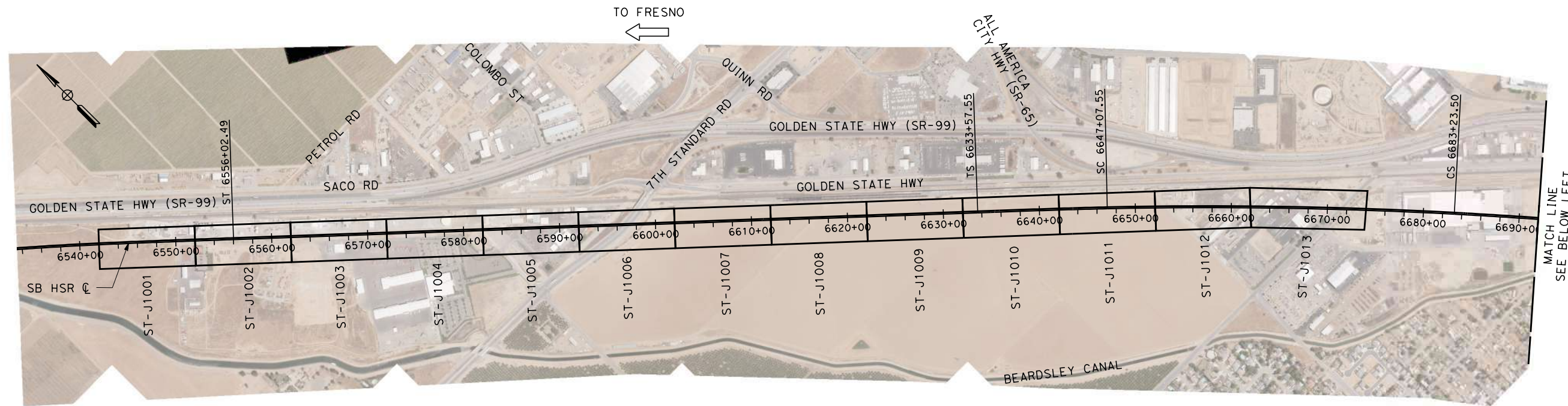
**RECORD SET
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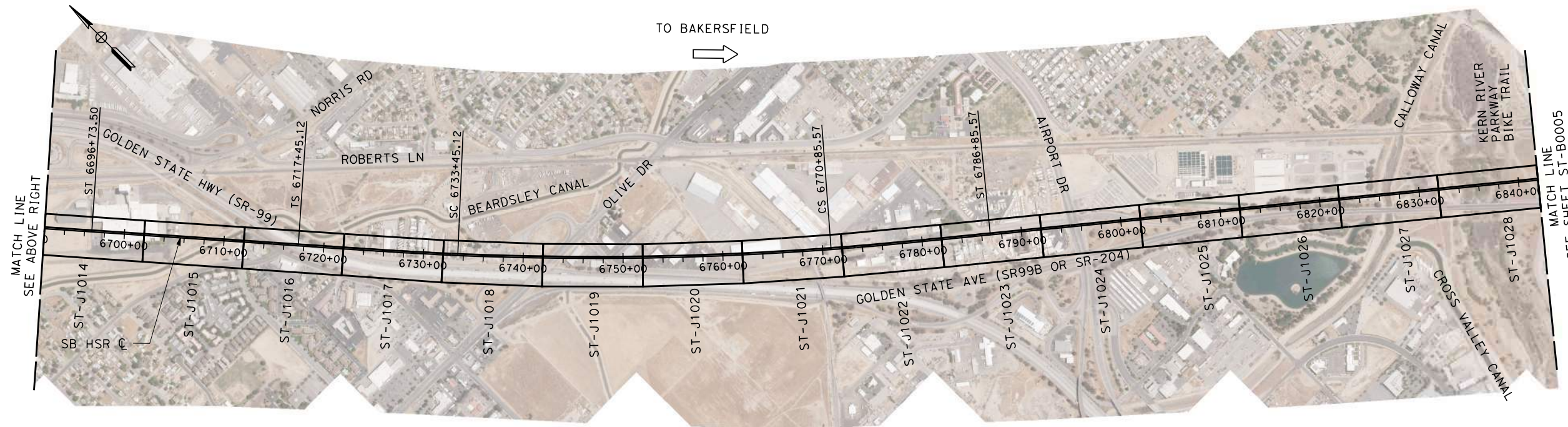
**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
KEY MAP
SHEET 1 OF 3

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-B0003
SCALE
AS SHOWN
SHEET NO.
83

11/2/2016 10:06:57 AM CAHSR-ST-B0004.tbl S:\dulor\11/2/2016\10:06:57 AM CAHSR-ST-B0004.dgn



COFFEE RD HST VIADUCT



BAKERSFIELD HST VIADUCT

REV	DATE	BY	CHK	APP	DESCRIPTION

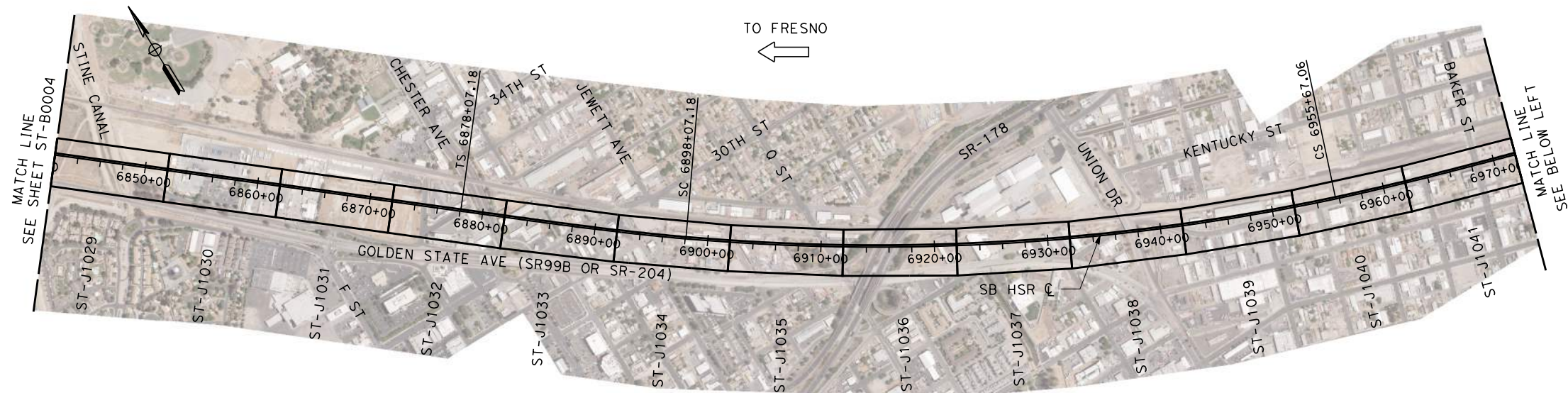
DESIGNED BY
N. METWASHLA
 DRAWN BY
D. WILEY
 CHECKED BY
S. DULOR
 IN CHARGE
S. DULOR
 DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION

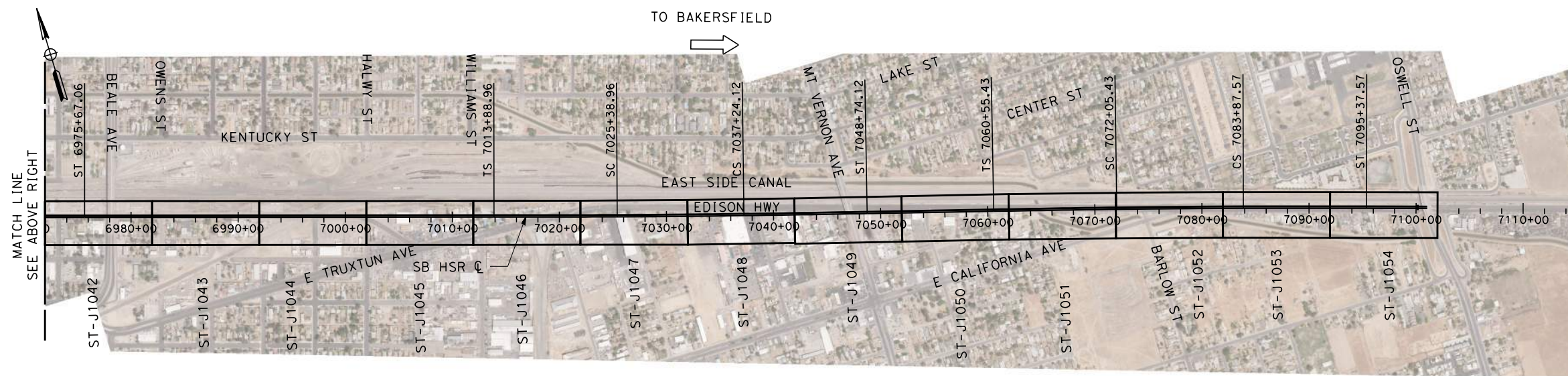


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 KEY MAP
 SHEET 2 OF 3

CONTRACT NO.
 HSR13-44
 DRAWING NO.
 ST-B0004
 SCALE
 AS SHOWN
 SHEET NO.
 84



BAKERSFIELD HST VIADUCT



BAKERSFIELD HST VIADUCT

11/2/2016 10:09:23 AM CAHSRP.tbl S:\dolor_half_black.plt\working\tylin\p01\dolor\dm27052\BF55A-ST-B0005.dgn

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D. WILEY
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 IN CHARGE
S. DULOR
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10/28/16

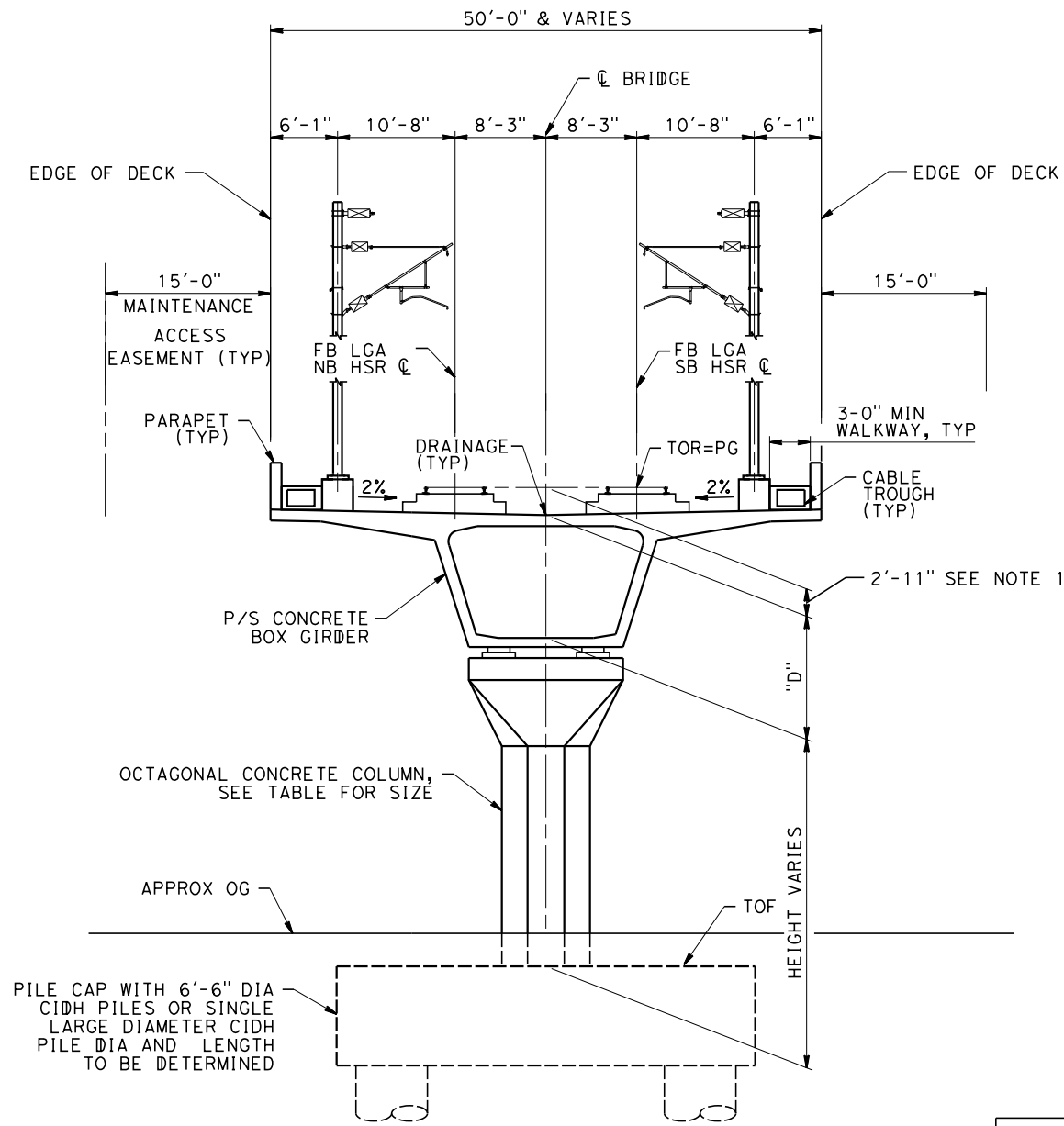
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PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 KEY MAP
 SHEET 3 OF 3

CONTRACT NO.
 HSR13-44
 DRAWING NO.
 ST-B0005
 SCALE
 AS SHOWN
 SHEET NO.
 85

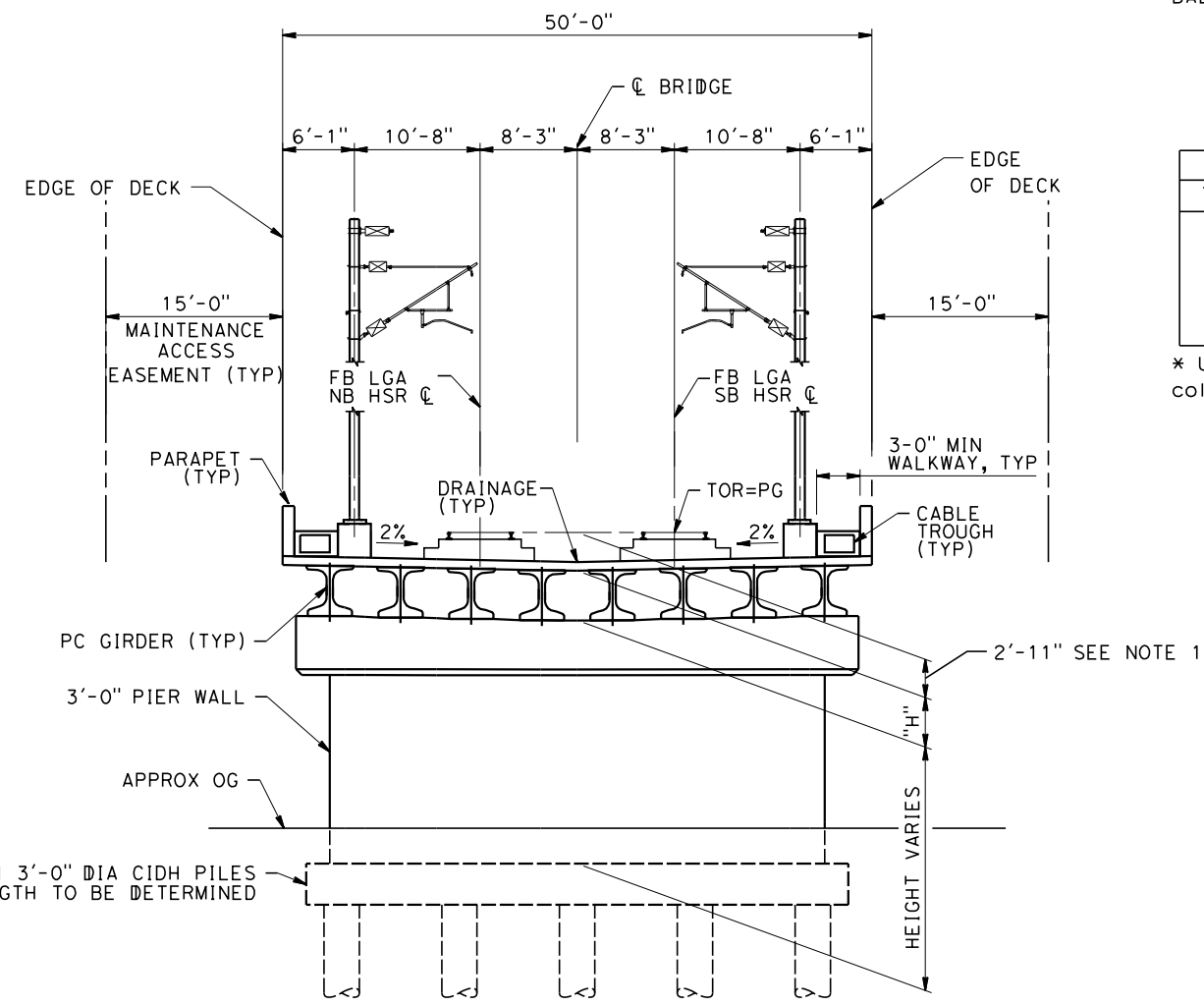
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SECTION A
SCALE: 1 1/2" = 1'-0"

STATION 5919+82 TO 5922+02	STATION 6770+00 TO 6780+00
STATION 5953+57 TO 5954+75	STATION 6784+40 TO 6792+80
STATION 5975+89 TO 5977+07	STATION 6798+00 TO 6801+30
STATION 5992+48 TO 5996+82	STATION 6801+40 TO 6823+75
STATION 6009+51 TO 6012+01	STATION 6884+75 TO 6914+50
STATION 6074+55 TO 6078+15	STATION 6918+40 TO 6935+50
STATION 6096+42 TO 6098+12	STATION 6940+90 TO 6944+80
STATION 6421+39 TO 6422+59	STATION 6951+25 TO 6953+35
STATION 6425+89 TO 6427+09	STATION 6954+50 TO 6967+35
STATION 6545+00 TO 6673+25	STATION 6969+40 TO 6977+20
STATION 6700+60 TO 6707+30	STATION 6979+00 TO 6994+40
STATION 6712+70 TO 6713+50	STATION 7002+15 TO 7018+30
STATION 6726+40 TO 6740+50	STATION 7020+80 TO 7063+90
STATION 6746+70 TO 6766+25	STATION 7070+90 TO 7101+00

STRUCTURE DEPTH	
LOCATION	"D"
FRESNO AVE HST UP	9'-0"
SHAFTER AVE HST UP	12'-0"
CENTRAL AVE HST UP	12'-0"
E LERDO HWY HST UP	9'-0"
INDUSTRY SPUR HST UP	9'-0"
RIVERSIDE ST HST UP	9'-0"
CHERRY AVE HST UP	9'-0"
COFFEE RD HST VIADUCT	10'-0" AND VARIES
BAKERSFIELD HST VIADUCT	12'-0" AND VARIES



SECTION B
SCALE: 1 1/2" = 1'-0"

STATION 6211+53 TO 6212+73
STATION 6264+77 TO 6265+97
STATION 6370+55 TO 6371+75

NOTE:
1. DIRECT FIXATION TRACK IS SHOWN, HOWEVER 2'-11" ACCOUNTS FOR EITHER DIRECT FIXATION OR BALLASTED TRACK CONFIGURATION.

COLUMN SIZE	
TOF TO SOFFIT	SIZE
0-29'	8'
30-40'	10'
40-65'	12'
65-70'	15'

* Use pile cap with 15' dia columns

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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 DRAWN BY
D. WILEY
 CHECKED BY
S. DULOR
 IN CHARGE
S. DULOR
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10/28/16

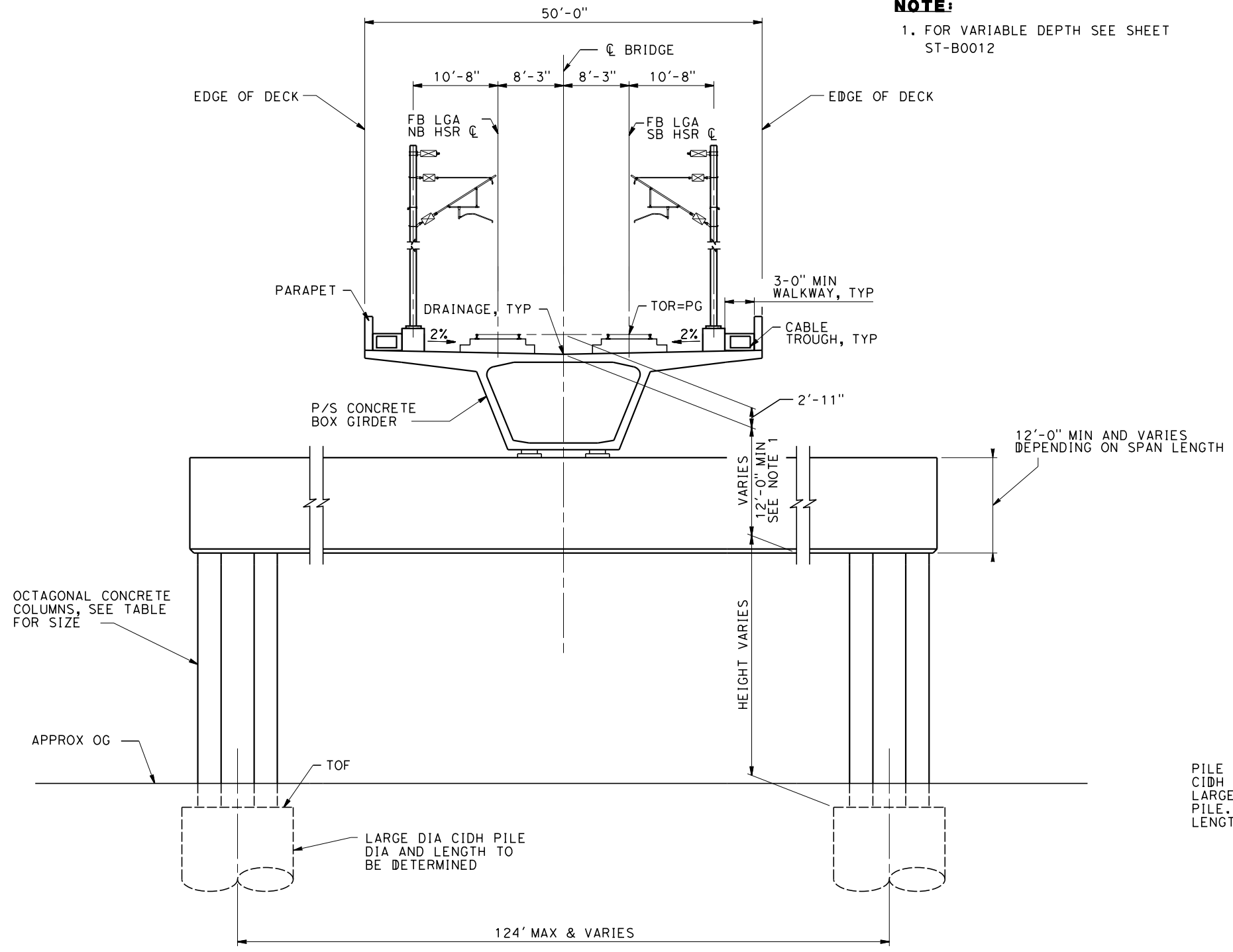
**RECORD SET
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TYPICAL SECTION
 SHEET 1 OF 9

CONTRACT NO.
HSR13-44
 DRAWING NO.
ST-B0006
 SCALE
AS-SHOWN
 SHEET NO.
86

NOTE:
1. FOR VARIABLE DEPTH SEE SHEET ST-B0012

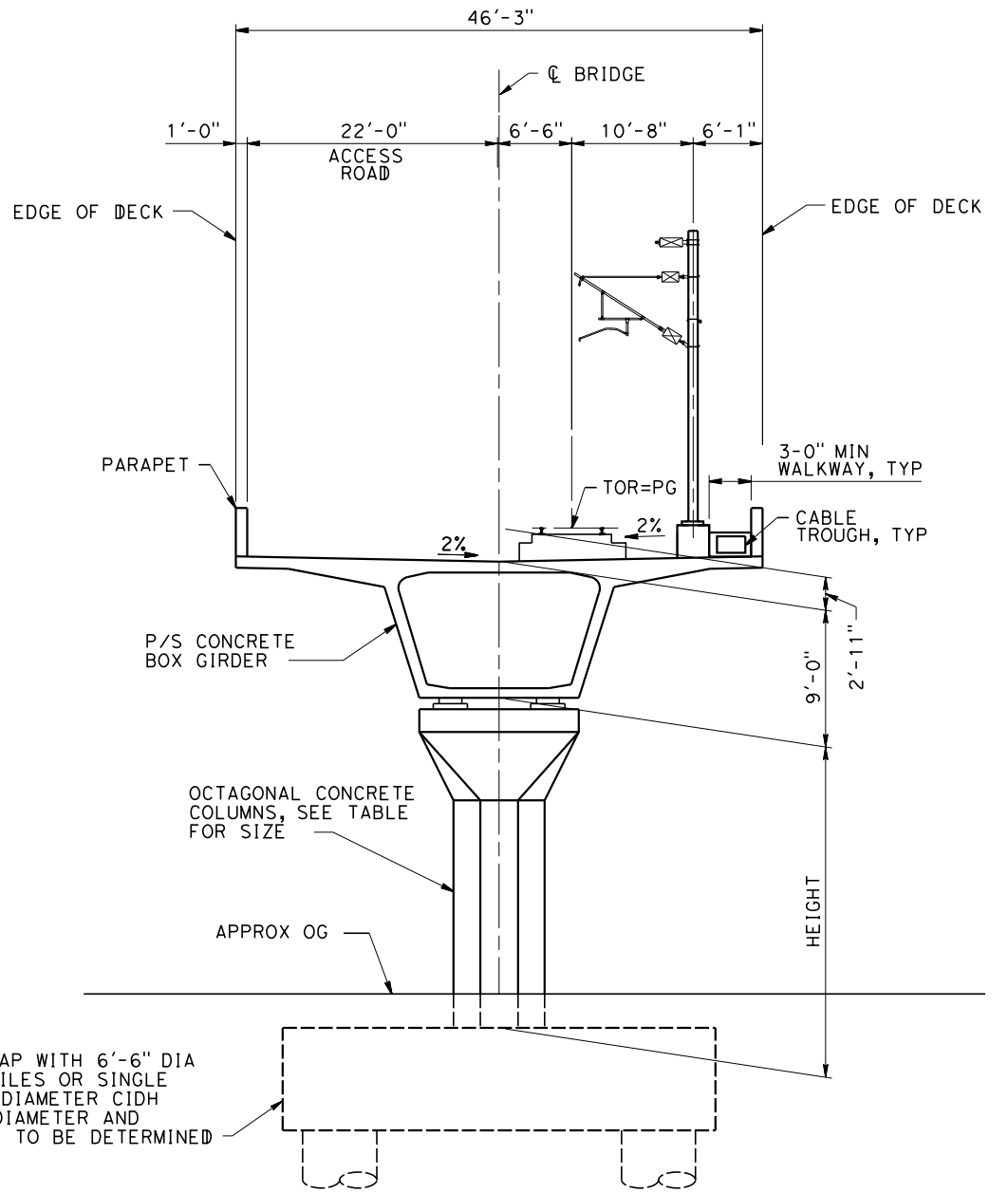


SECTION C
SCALE: 1/2"=1'-0"

STATION 6421+40 TO 6422+60	STATION 6940+90
STATION 6425+90 TO 6427+10	STATION 6953+35 TO 6954+50
STATION 6780+00 TO 6784+40	STATION 6967+35 TO 6969+40
STATION 6798+00	STATION 6977+20 TO 6979+00
STATION 6801+30	STATION 7000+80 TO 7002+15
STATION 6935+50	STATION 7018+30 TO 7020+80
	STATION 7068+20 TO 7070+90

COLUMN SIZE	
TOF TO SOFFIT	SIZE
0-29'	8'
30-40'	10'
40-65'	12'
65-70'	15'

* Use pile cap with 15' dia columns



SECTION A2
SCALE: 1/2"=1'-0"

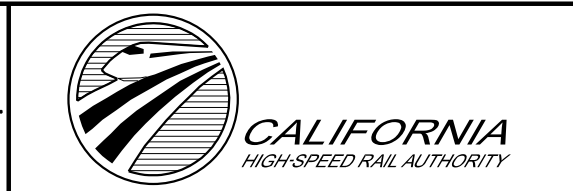
YL 920+50 TO YL 923+60

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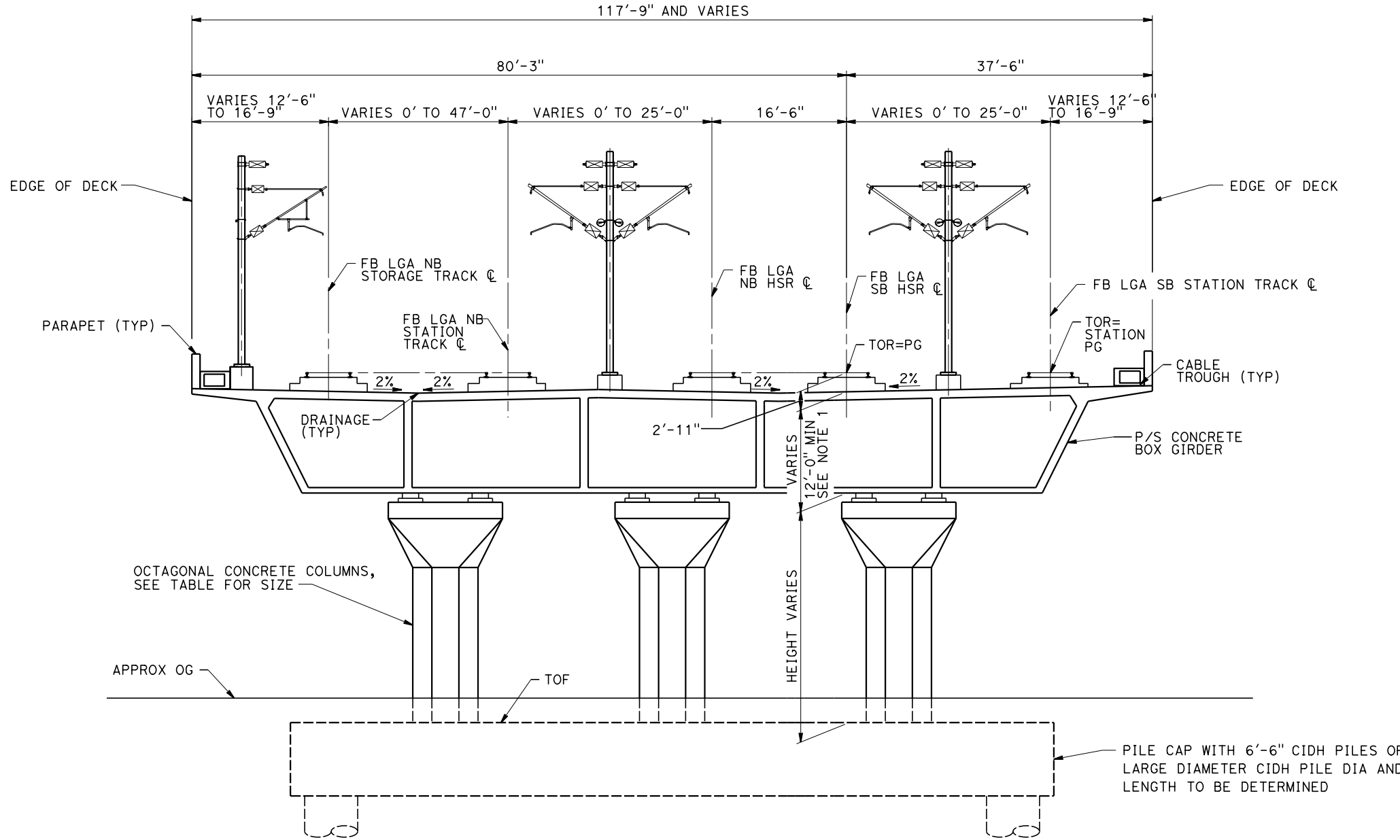
RECORD SET
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
TYPICAL SECTION
SHEET 2 OF 9

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-B0007
SCALE
AS SHOWN
SHEET NO.
87

Projects\701206.N_BFSS\00_CADD\Sheet_Files\Track_Structure_Sheets\BFSSA-ST-B0008 \$PLTDRVS\$ \$PENTBLS\$ 10/18/2016 11:11:32 AM TYLIN\KBeRy



NOTE:
1. FOR VARIABLE DEPTH SEE SHEET ST-B0012

COLUMN SIZE	
TOF TO SOFFIT	SIZE
0-29'	8'
30-40'	10'
40-65'	12'
65-70'	15'

* Use pile cap with 15' dia columns

SECTION D

SCALE: 1/2"=1'-0"

STATION 6825+00 TO 6845+30
STATION 6863+00 TO 6872+65 *
* NOTE: STORAGE TRACK ON SB SIDE FOR THIS STATION RANGE

REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE
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DATE
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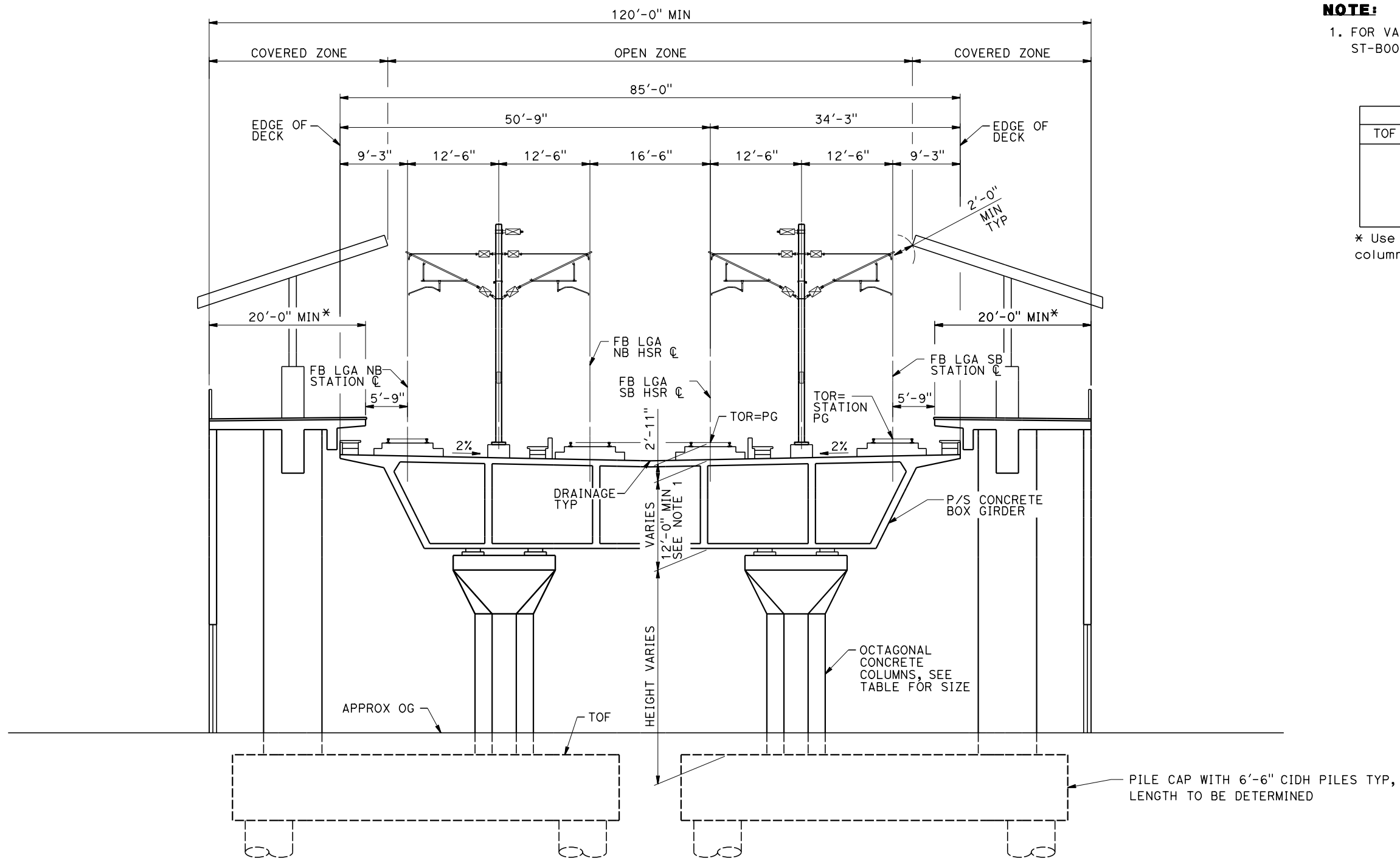
**RECORD SET
PEPD DESIGN
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TYPICAL SECTION
SHEET 3 OF 9

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-B0008
SCALE
AS SHOWN
SHEET NO.
88

Projects\701206.N_BFSS\00_CADD\Sheet_Files\Track_Structure_Sheets\BFSSA-ST-B0009 \$PLTDRVS\$ \$PENTBLS\$ 10/18/2016 11:11:23 AM TYLIN\KBeFy



NOTE:
 1. FOR VARIABLE DEPTH SEE SHEET ST-B0012

COLUMN SIZE	
TOF TO SOFFIT	SIZE
0-29'	8'
30-40'	10'
40-65'	12'
65-70'	15'

* Use pile cap with 15' dia columns

SECTION E

SCALE: 1/2"=1'-0"

*20'-0" MIN AND VARIES SEE STATION PLANS FOR DETAILS

STATION 6848+90 TO 6863+00

REV	DATE	BY	CHK	APP	DESCRIPTION

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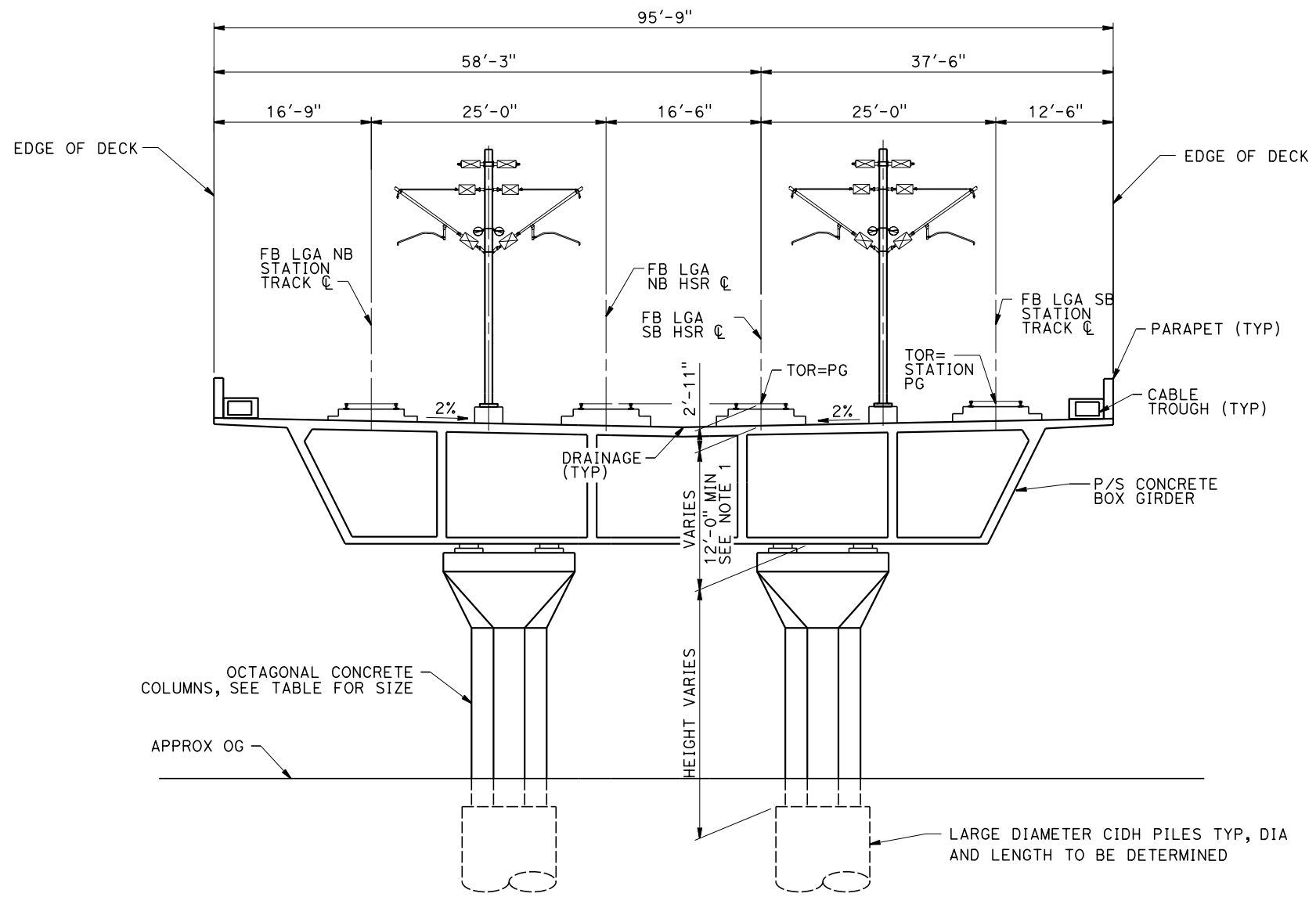
RECORD SET
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TYPICAL SECTION
 SHEET 4 OF 9

CONTRACT NO.
HSR13-44
 DRAWING NO.
ST-B0009
 SCALE
AS SHOWN
 SHEET NO.
89

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NOTE:
1. FOR VARIABLE DEPTH SEE SHEET ST-B0012

COLUMN SIZE	
TOF TO SOFFIT	SIZE
0-29'	8'
30-40'	10'
40-65'	12'
65-70'	15'

* Use pile cap with 15' dia columns

SECTION F

SCALE: 1 1/2"=1'-0"

STATION 6845+30 TO 6848+90

REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE
S. DULOR
DATE
10/28/16

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SUBMISSION**

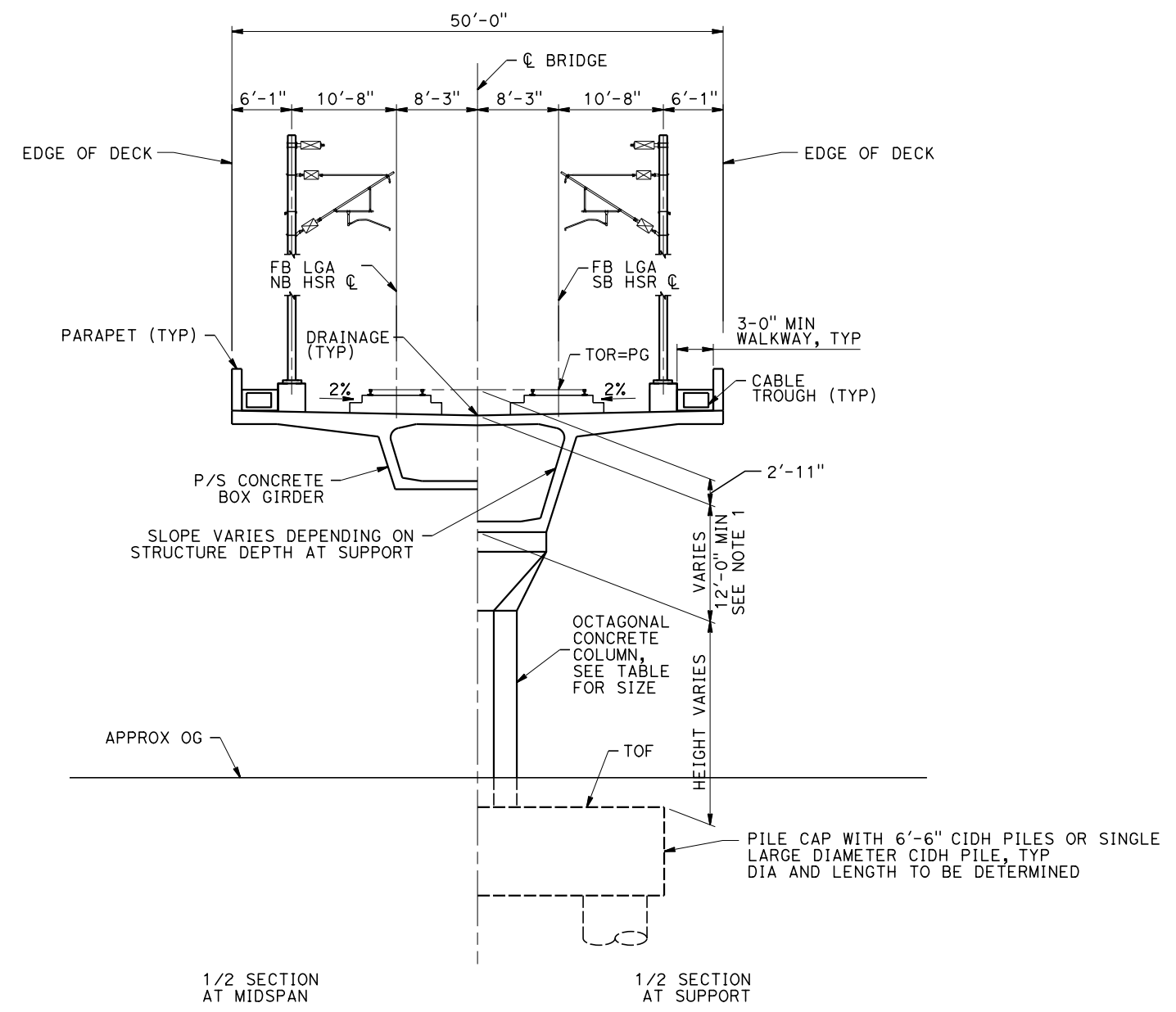


**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TYPICAL SECTION
SHEET 5 OF 9

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-B0010
SCALE
AS SHOWN
SHEET NO.
90

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NOTE:
1. FOR VARIABLE DEPTH SEE SHEET ST-B0012



COLUMN SIZE	
TOF TO SOFFIT	SIZE
0-29'	8'
30-40'	10'
40-65'	12'
65-70'	15'

* Use pile cap with 15' dia columns

SECTION G

SCALE: 1 1/2"=1'-0"

- | | |
|----------------------------|----------------------------|
| STATION 6707+30 TO 6712+70 | STATION 6914+50 TO 6918+40 |
| STATION 6721+20 TO 6726+40 | STATION 6935+50 TO 6940+90 |
| STATION 6740+50 TO 6746+70 | STATION 6944+80 TO 6951+25 |
| STATION 6766+25 TO 6770+00 | STATION 6994+40 TO 7000+80 |
| STATION 6792+80 TO 6798+00 | STATION 7063+90 TO 7068+20 |

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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DRAWN BY
D. WILEY
CHECKED BY
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IN CHARGE
S. DULOR
DATE
10/28/16

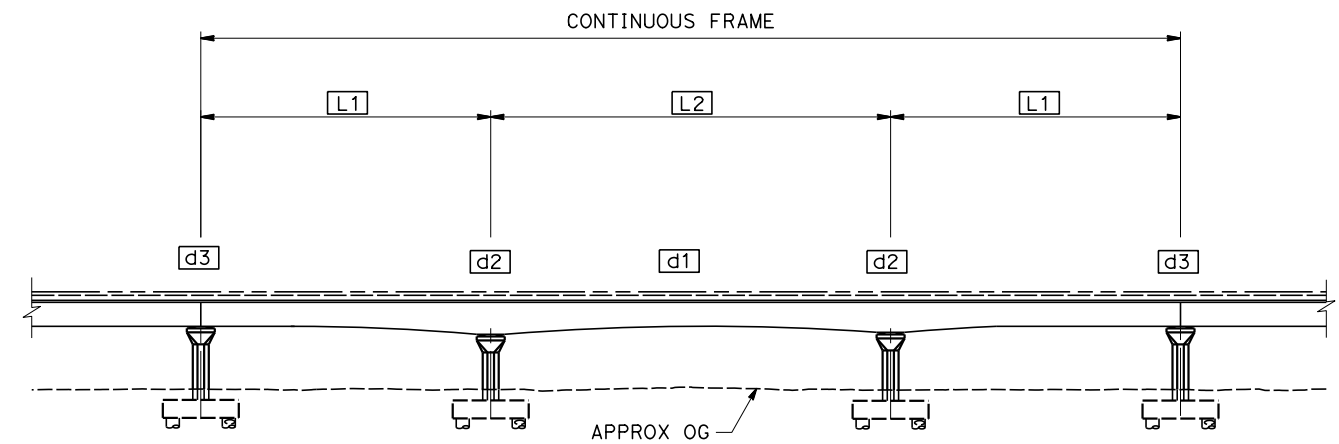
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TYPICAL SECTION
SHEET 6 OF 9

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-B0011
SCALE
AS SHOWN
SHEET NO.
91

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VARIABLE DEPTH FRAME WHERE APPLICABLE

SCALE: 1/4"=1'-0"

$d1 = \text{MAX}(L2/20, 12'-0")$ $d2 = L2/12$ $d3 = 12'-0"$

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S. DULOR

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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**

LOCALLY GENERATED ALTERNATIVE
TYPICAL SECTION
SHEET 7 OF 9

CONTRACT NO.
HSR13-44

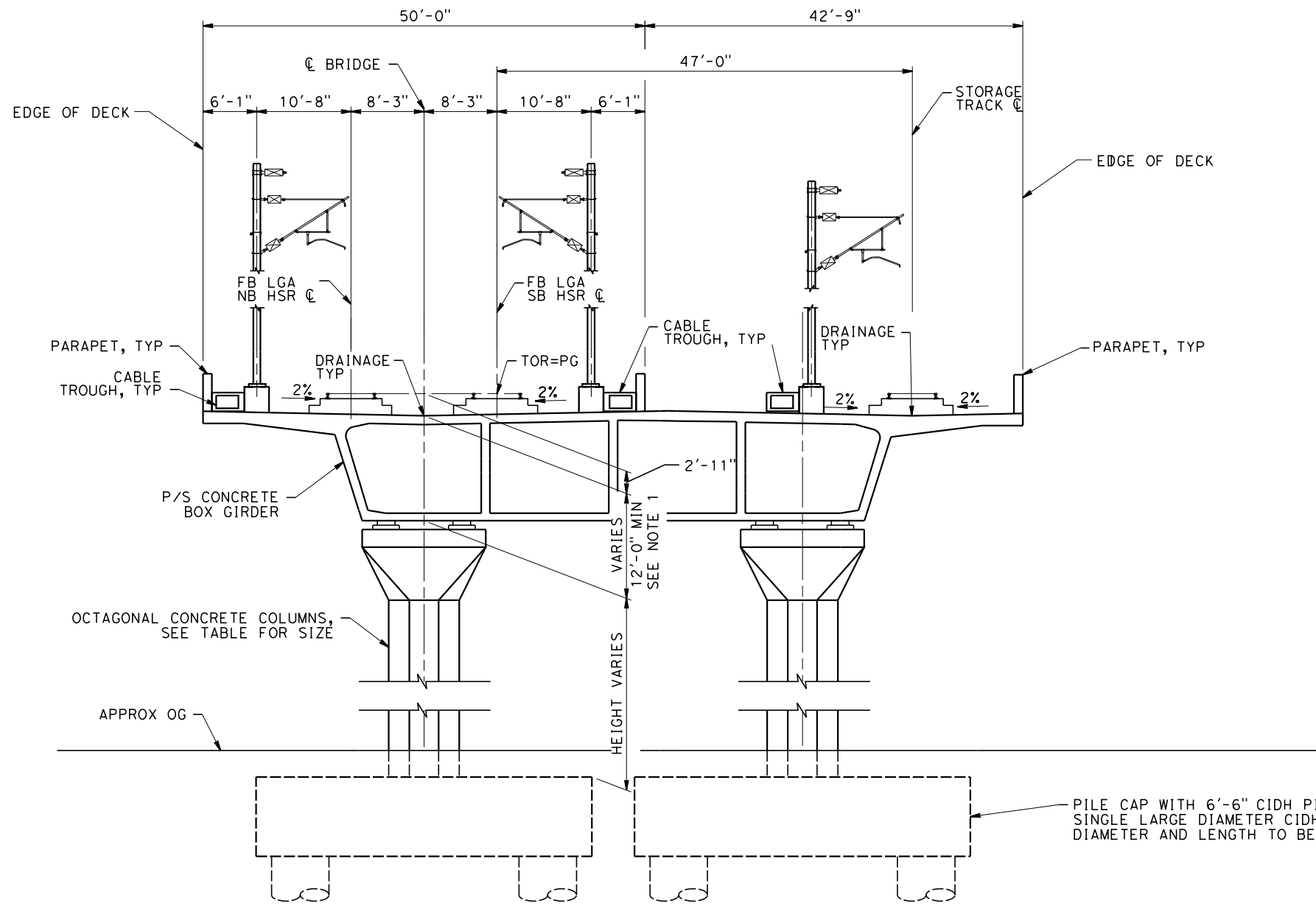
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SCALE
AS SHOWN

SHEET NO.
92

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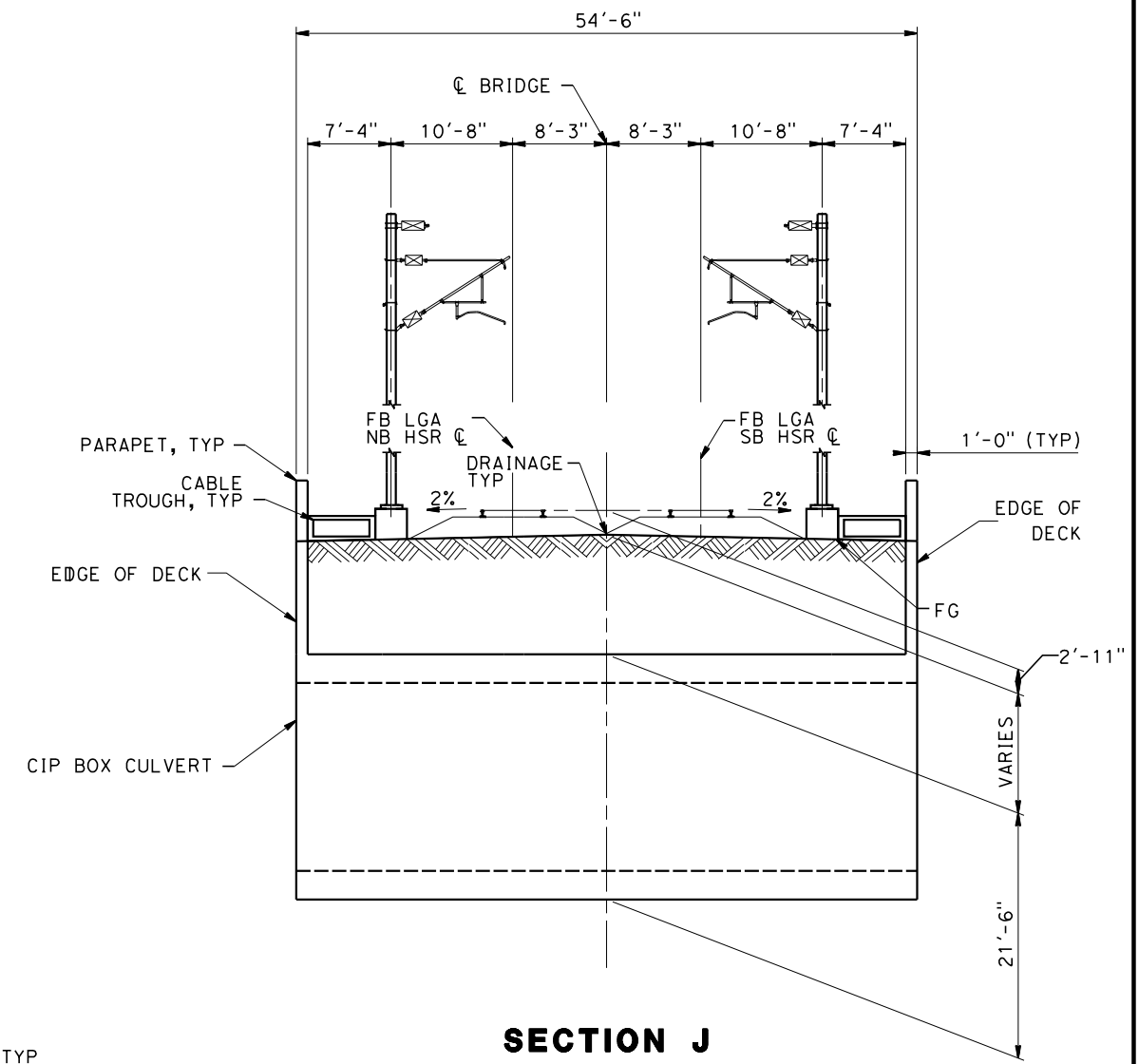
SECTION I
SCALE: 1 1/2"=1'-0"

STATION 6872+65 TO 6884+75

COLUMN SIZE	
TOF TO SOFFIT	SIZE
0-29'	8'
30-40'	10'
40-65'	12'
65-70'	15'

NOTE:
1. FOR VARIABLE DEPTH SEE SHEET ST-B0012

* Use pile cap with 15' dia columns



SECTION J
SCALE: 1 1/2"=1'-0"

STATION 6482+80 TO 6483+30

REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE
S. DULOR
DATE
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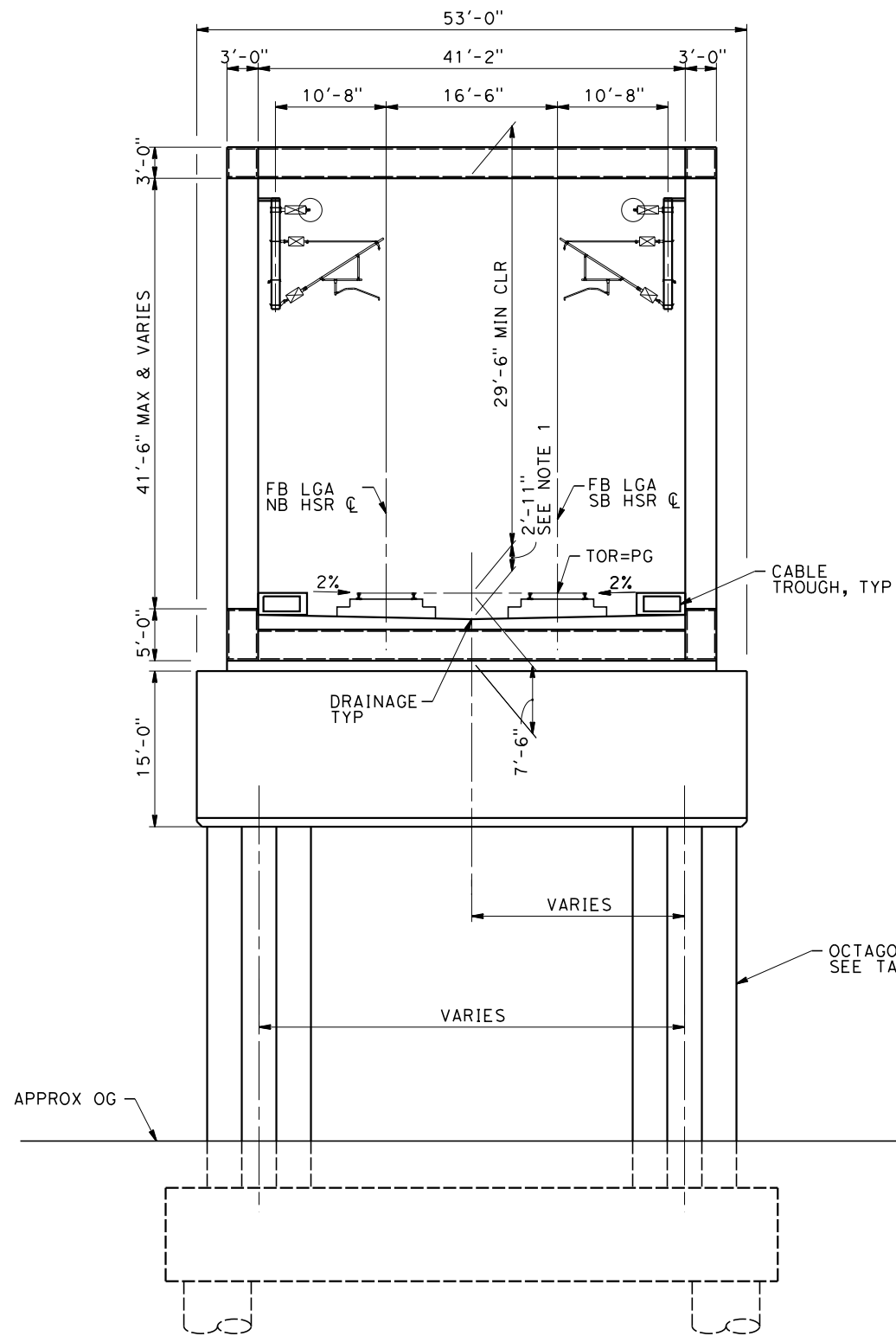
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6842+00 TO 6852+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-B0013
SCALE
AS SHOWN
SHEET NO.
93

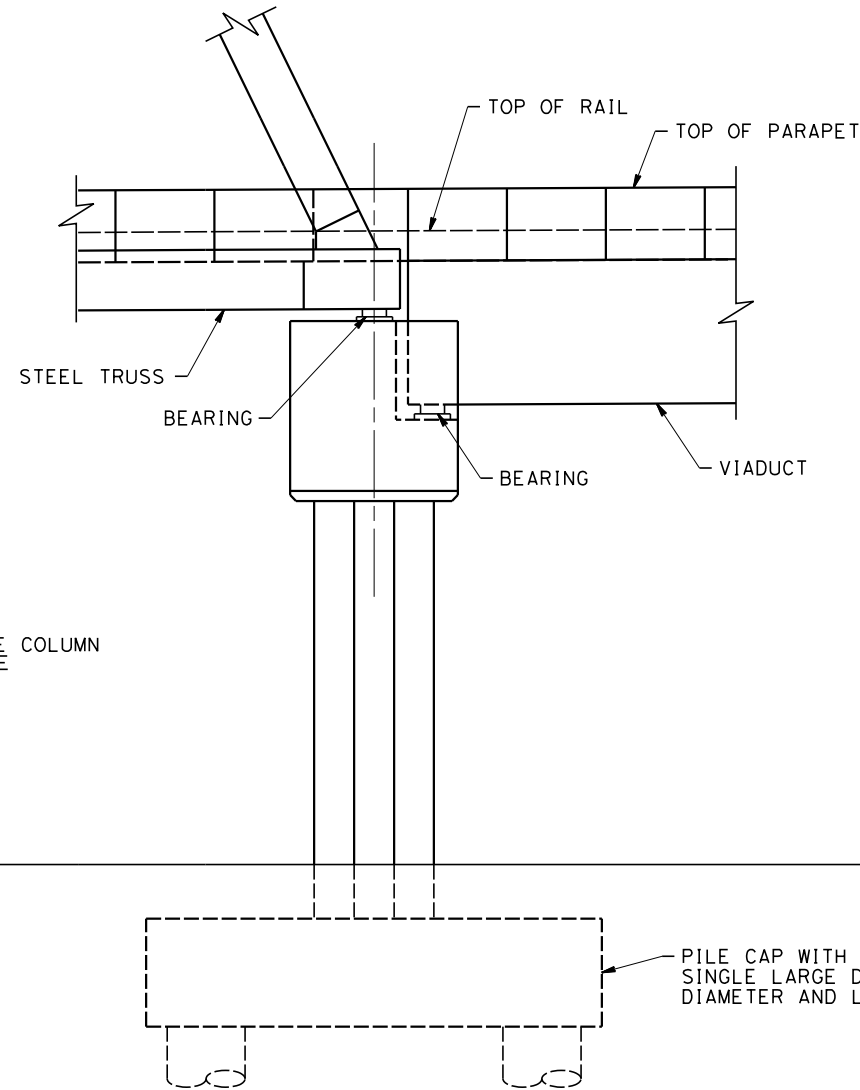
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SECTION K

SCALE: 1/2"=1'-0"

STATION 6329+45 TO 6332+74
 STATION 6422+59 TO 6425+89
 STATION 6513+95 TO 6517+25
 STATION 6714+60 TO 6721+20



TRANSITION BENT ELEVATION

SCALE: 1/2"=1'-0"

NOTE:

1. DIRECT FIXATION TRACK IS SHOWN, HOWEVER 2'-11" ACCOUNTS FOR EITHER DIRECT FIXATION OR BALLASTED TRACK CONFIGURATION.

COLUMN SIZE	
TOF TO SOFFIT	SIZE
0-29'	8'
30-40'	10'
40-65'	12'
65-70'	15'

* Use pile cap with 15' dia columns

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
N. METWASHLA
 DRAWN BY
D. WILEY
 CHECKED BY
S. DULOR
 IN CHARGE
S. DULOR
 DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION

TYLIN INTERNATIONAL



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TYPICAL SECTION
 SHEET 9 OF 9

CONTRACT NO.
HSR13-44
 DRAWING NO.
ST-B0014
 SCALE
AS SHOWN
 SHEET NO.
94

6758+70.00 EVC
ELEV 485.34

6844+50.00 EVC
460.63
6831+50.00 BVC
ELEV 461.16

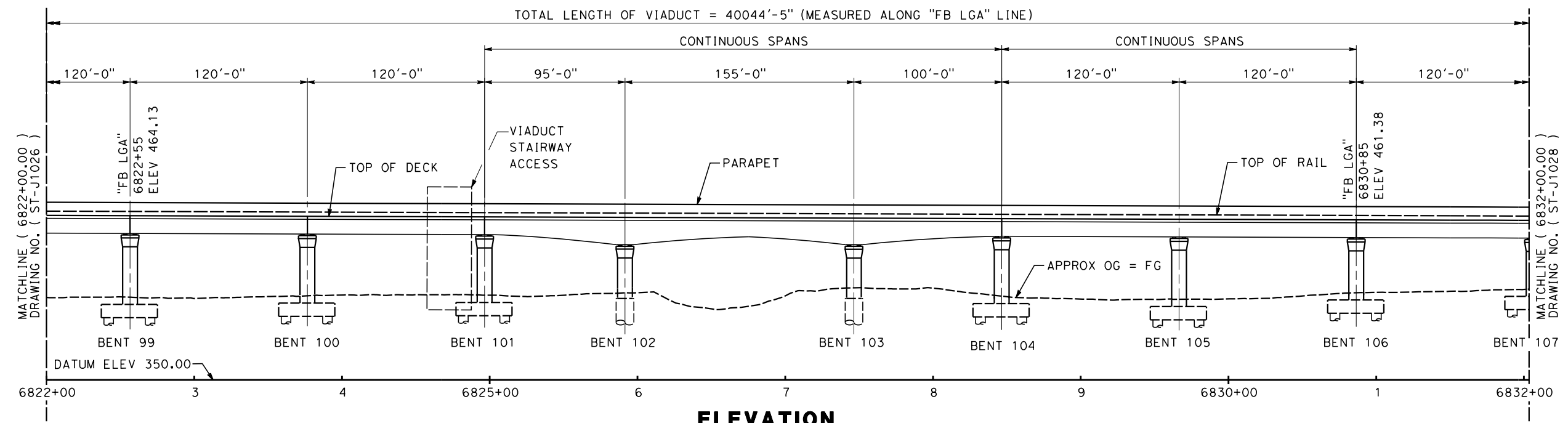
-0.332%

TOP OF RAIL "FB LGA" LINE

NO SCALE

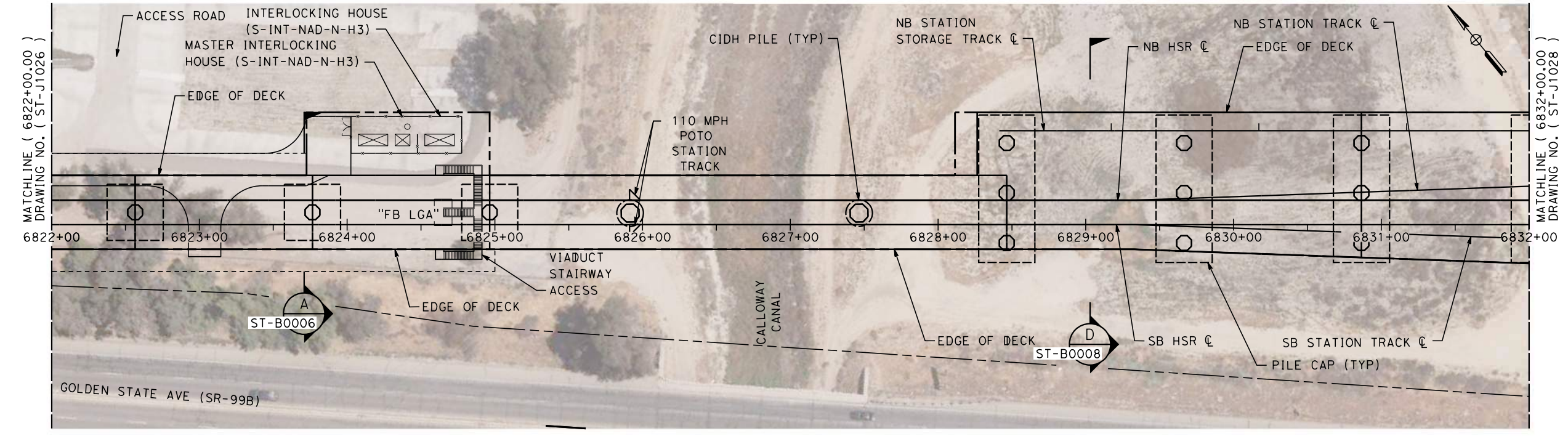
1300'VC R/C= 0.0631%/STA

TOTAL LENGTH OF VIADUCT = 40044'-5" (MEASURED ALONG "FB LGA" LINE)



ELEVATION

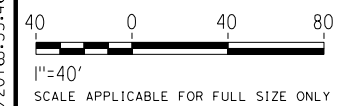
SCALE: 1" = 40'



PLAN

SCALE: 1" = 40'

10/25/2016 3:35:46 PM CAHSR-rfb CAHSR-rfb\chsr_pdf_half_black.plt\c:\pwworking\tylin\ipw01\sdulor\dms27052\BFS5A-ST-J1027.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
E. HEREFORD
DRAWN BY
E. HEREFORD
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

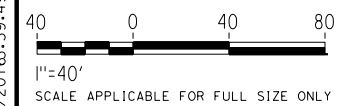
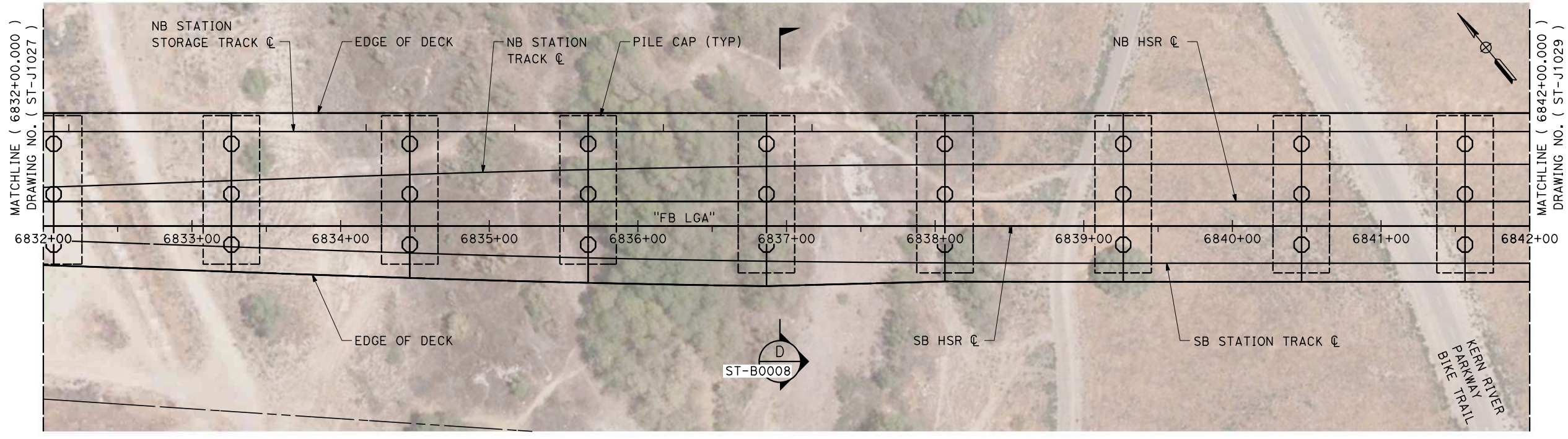
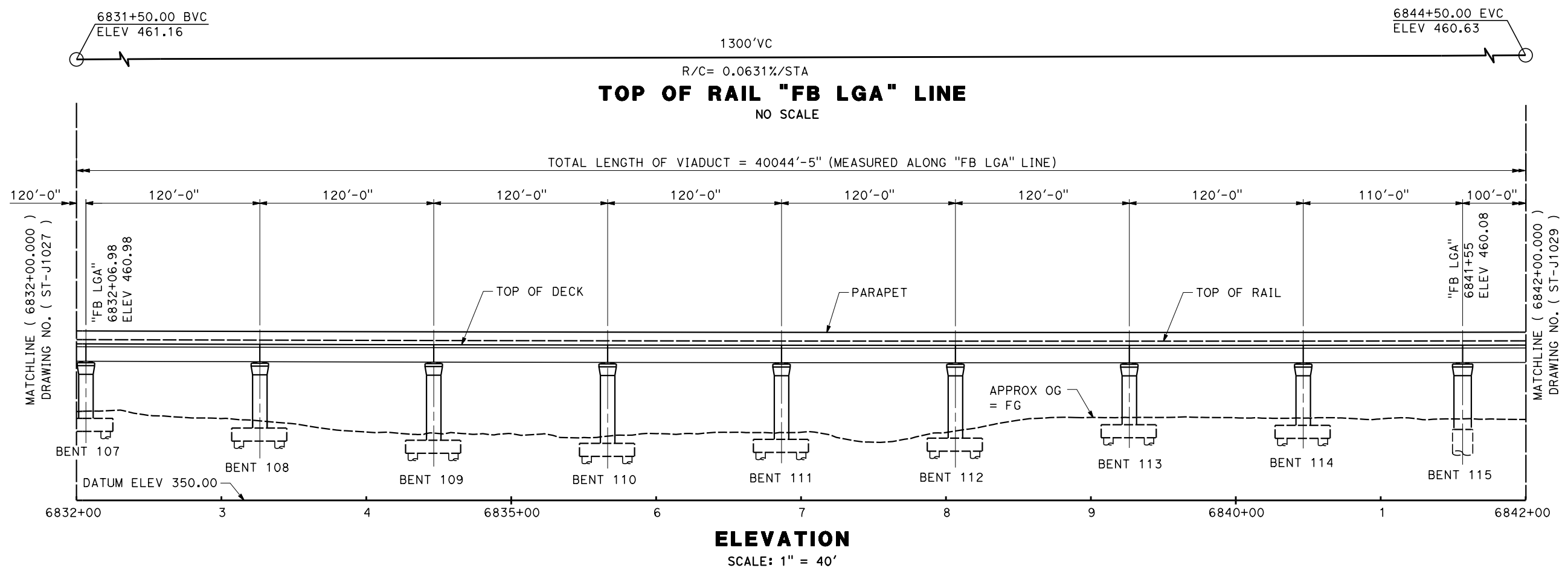
RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6822+00 TO 6832+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1027
SCALE
AS SHOWN
SHEET NO.
95

TYL\KBeRfy 10/14/2016 3:39:49 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N.BFSS\00 CADD\Sheet Files\Track Structure Sheets\BFSSA-ST-J1028



REV	DATE	BY	CHK	APP	DESCRIPTION

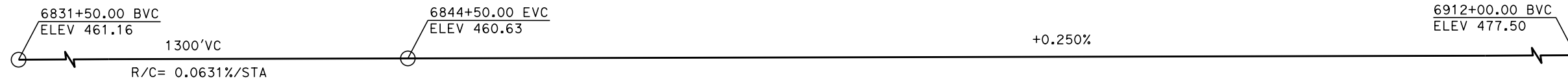
DESIGNED BY
E. HEREFORD
 DRAWN BY
E. HEREFORD
 CHECKED BY
S. DULOR
 IN CHARGE
S. DULOR
 DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION

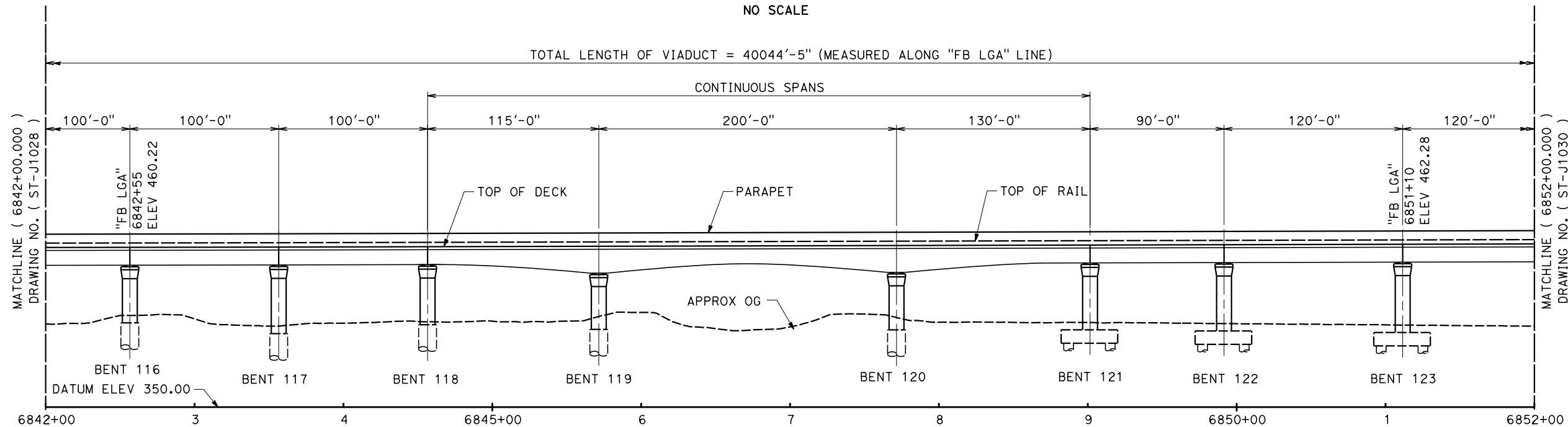


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 BAKERSFIELD HST VIADUCT
 STATION 6832+00 TO 6842+00
 PLAN AND ELEVATION

CONTRACT NO.	HSR13-44
DRAWING NO.	ST-J1028
SCALE	AS SHOWN
SHEET NO.	96



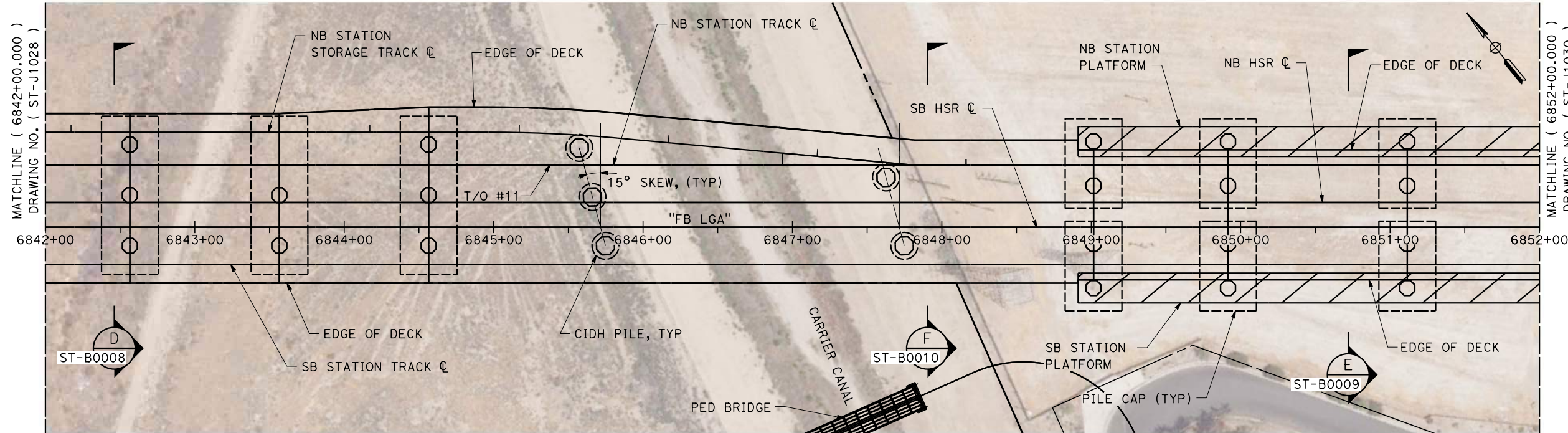
TOP OF RAIL "FB LGA" LINE
NO SCALE



ELEVATION

SCALE: 1" = 40'

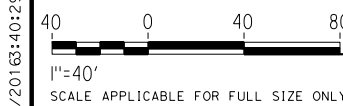
NOTE: STATION PLATFORM NOT SHOWN



PLAN

SCALE: 1" = 40'

TYL\KBeFry 10/14/2016 3:40:29 PM \$PENTBL\$.S\$ \$PLTDRVS\$.S\$ Projects\701206.N_BFSS\00_CADD\Sheet_Files\Track_Structure_Sheets\BFSSA-ST-J1029



REV	DATE	BY	CHK	APP	DESCRIPTION

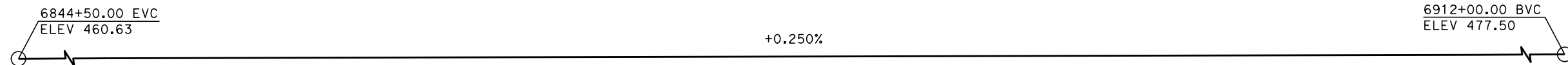
DESIGNED BY
E. HEREFORD
DRAWN BY
E. HEREFORD
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION

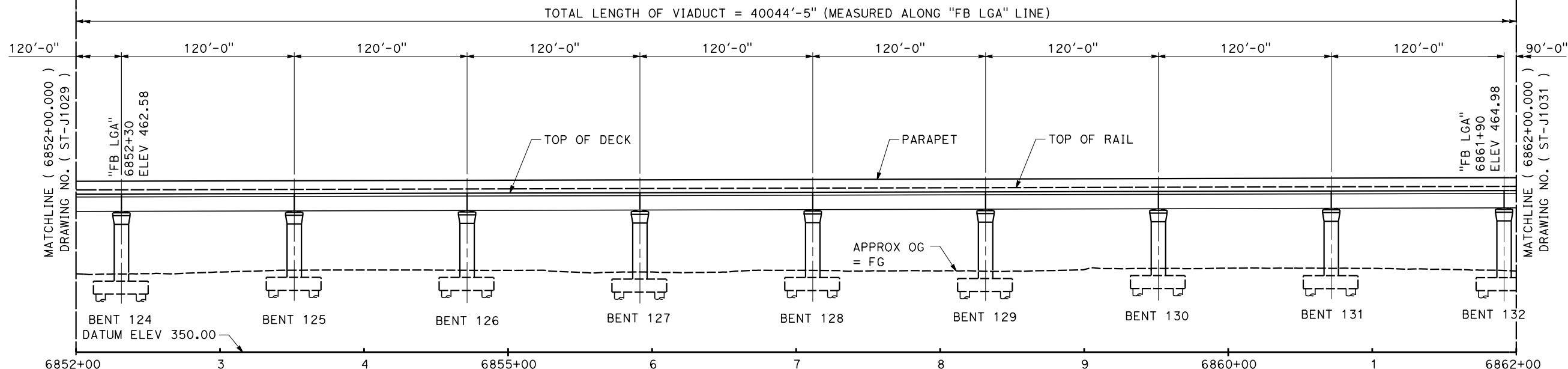


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6842+00 TO 6852+00
PLAN AND ELEVATION

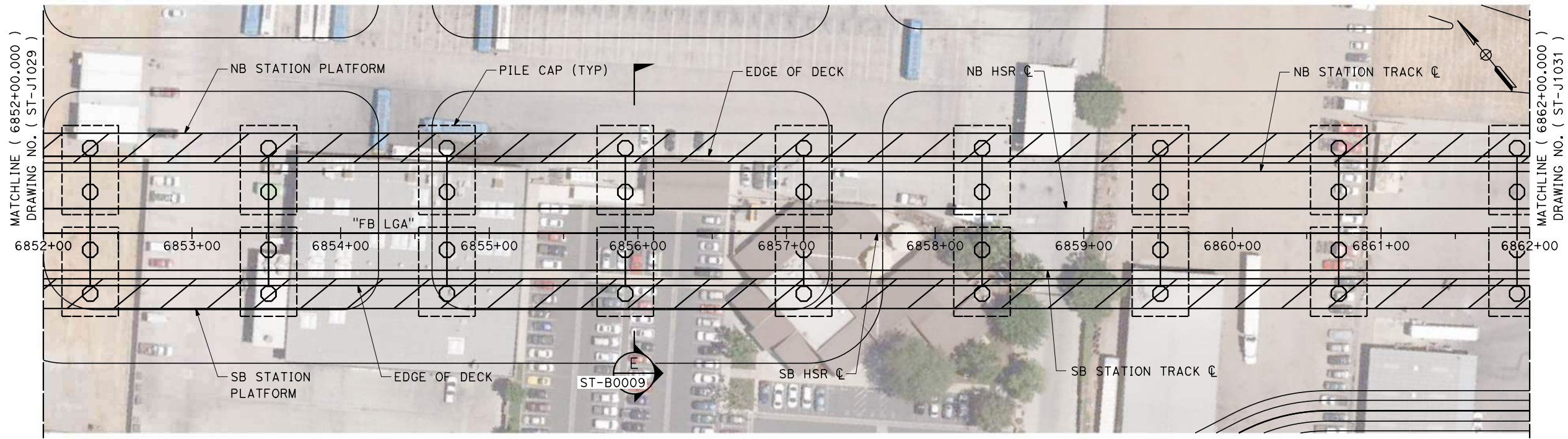
CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1029
SCALE
AS SHOWN
SHEET NO.
97



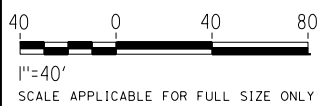
TOP OF RAIL "FB LGA" LINE
NO SCALE



ELEVATION
SCALE: 1" = 40'
NOTE: STATION PLATFORM NOT SHOWN



PLAN
SCALE: 1" = 40'



TYL\KBeFry 10/14/2016 4:11:21 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N.BFSS\00 CADD\Sheet Files\Track Structure Sheets\BFSSA-ST-J1030

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
E. HEREFORD
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E. HEREFORD
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6852+00 TO 6862+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1030
SCALE
AS SHOWN
SHEET NO.
98

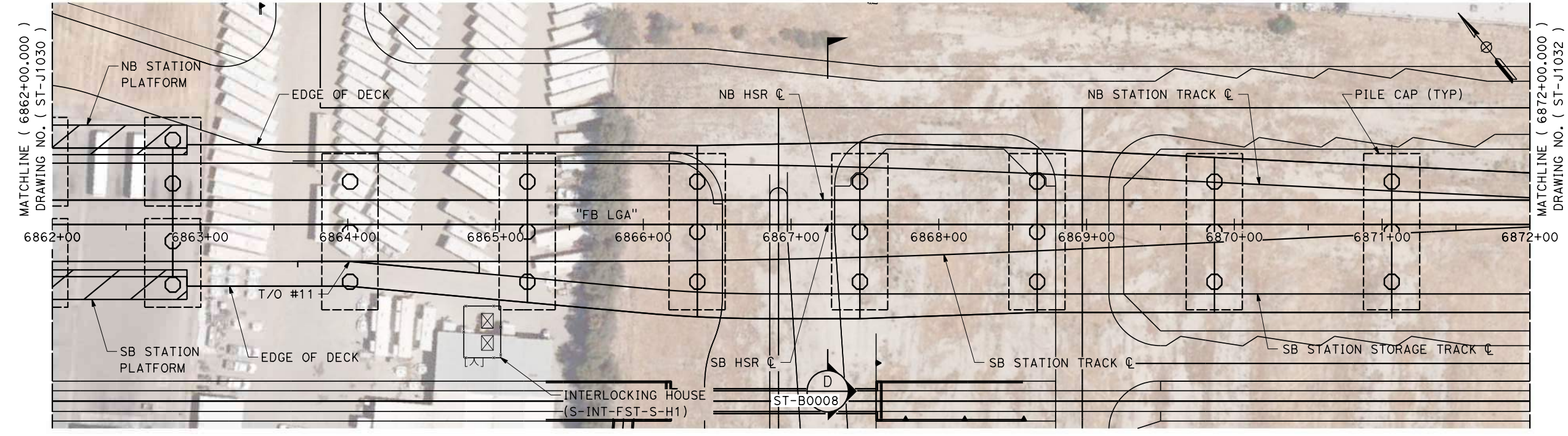
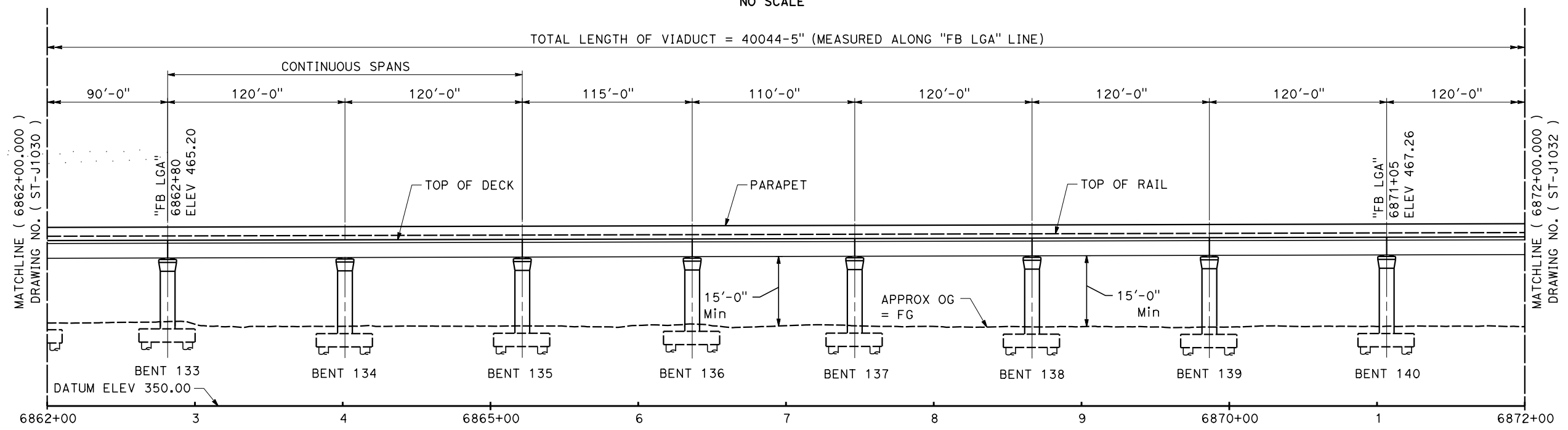
6844+50.00 EVC
ELEV 460.63

+0.250%

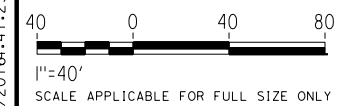
6912+00.00 BVC
ELEV 477.50

TOP OF RAIL "FB LGA" LINE

NO SCALE



TYLIN\Bery 10/14/2016 4:1:25 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N.BFSS\00 CADD\Sheet Files\Track Structure Sheets\BFSSA-ST-J1031



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
E. HEREFORD

DRAWN BY
E. HEREFORD

CHECKED BY
S. DULOR

IN CHARGE
S. DULOR

DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



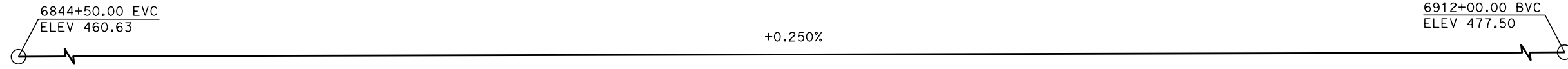
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6862+00 TO 6872+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44

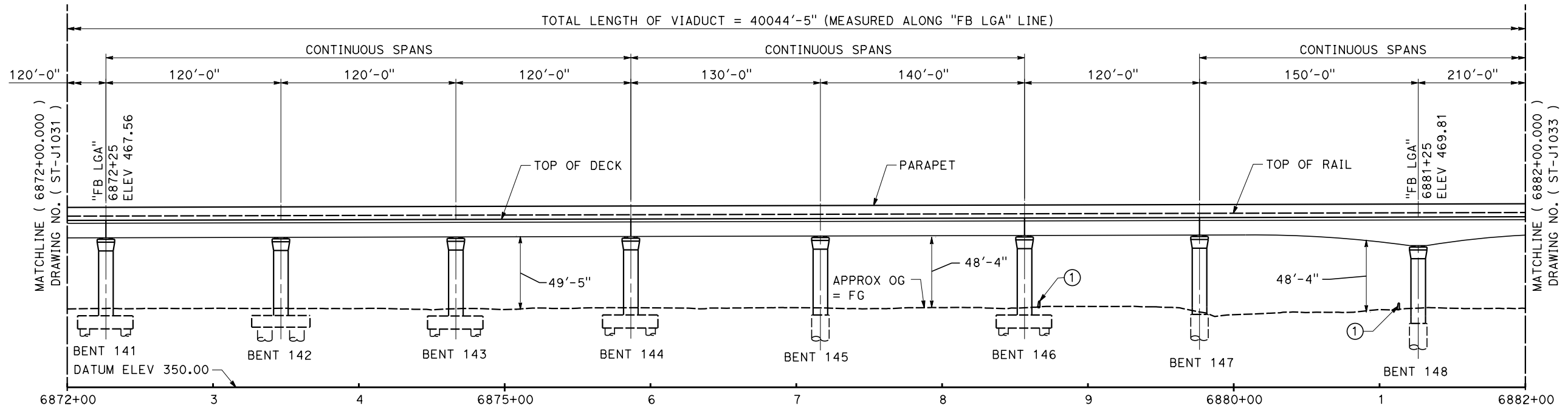
DRAWING NO.
ST-J1031

SCALE
AS SHOWN

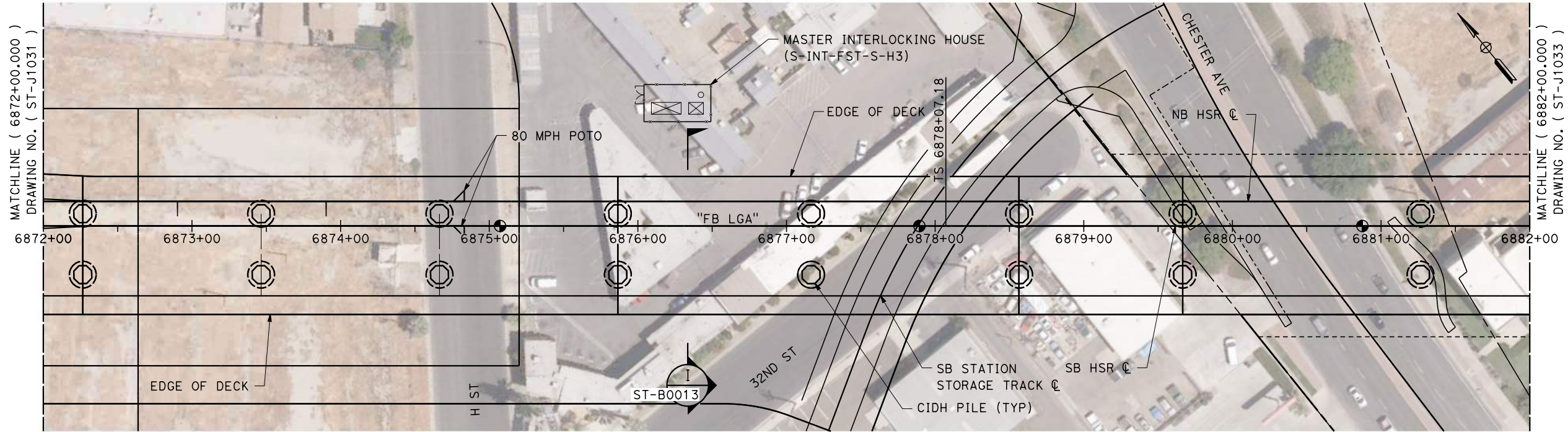
SHEET NO.
99



TOP OF RAIL "FB LGA" LINE
NO SCALE

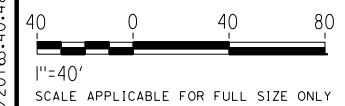


ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

TYL\KBeFry 10/14/2016 3:40:48 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N_BFSS\00_CADD\Sheet_Files\Track_Structure_Sheets\BFSSA-ST-J1032



REV	DATE	BY	CHK	APP	DESCRIPTION

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E. HEREFORD
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S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6872+00 TO 6882+00
PLAN AND ELEVATION

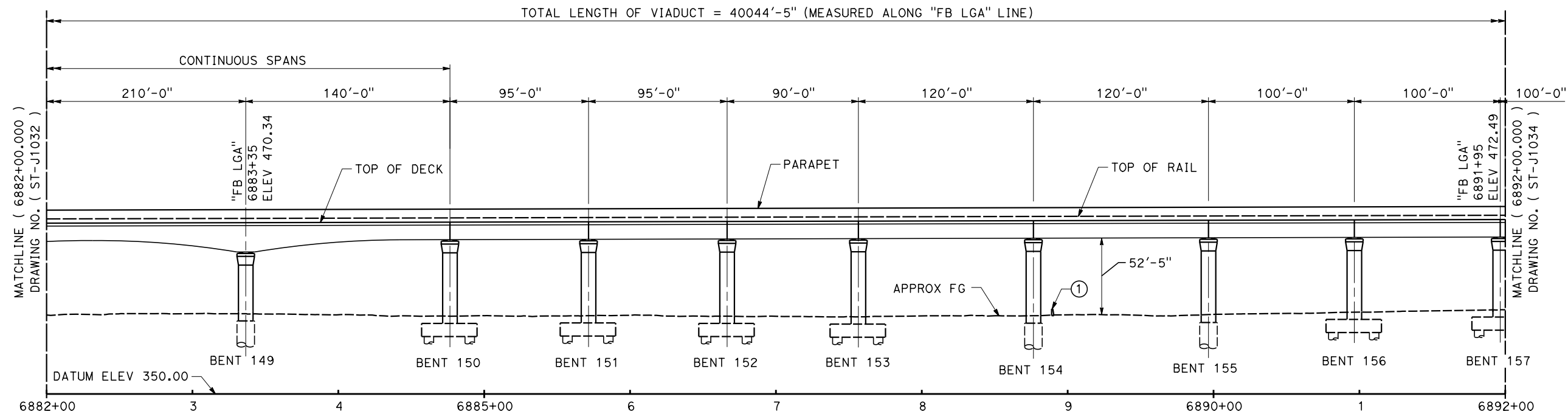
CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1032
SCALE
AS SHOWN
SHEET NO.
100

6844+50.00 EVC
ELEV 460.63

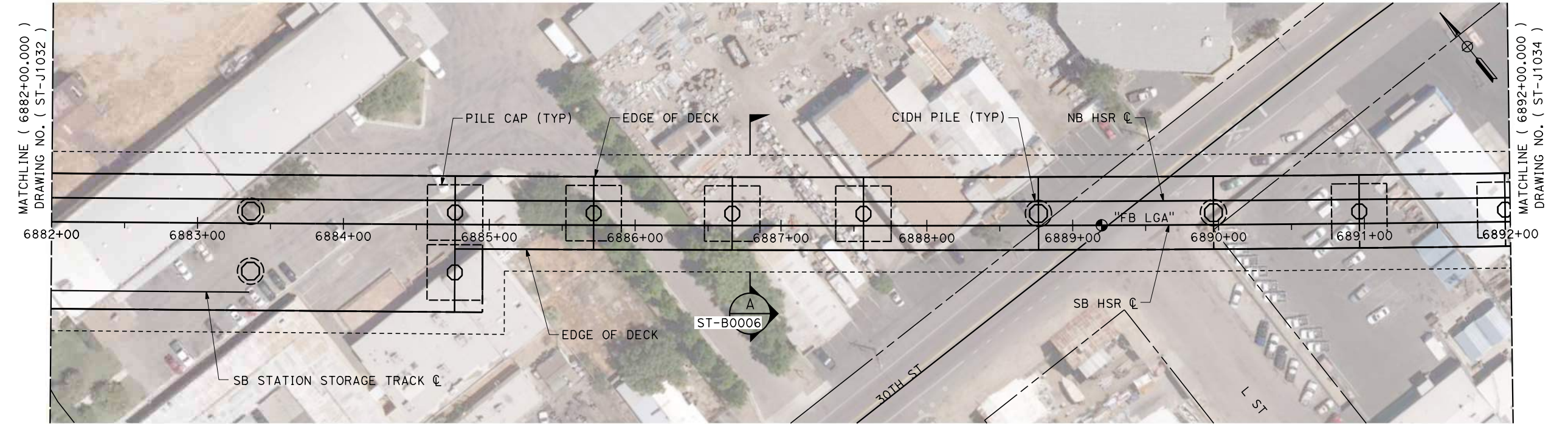
+0.250%

6912+00.00 BVC
ELEV 477.50

TOP OF RAIL "FB LGA" LINE
NO SCALE

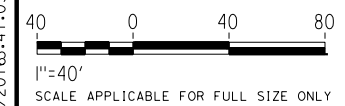


ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

TYL\KBeFry 10/14/2016 3:41:05 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N_BFSS\00_CADD\Sheet_Files\Track_Structure_Sheets\BFSSA-ST-J1033



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
E. HEREFORD
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E. HEREFORD
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6882+00 TO 6892+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1033
SCALE
AS SHOWN
SHEET NO.
101

6844+50.00 EVC
ELEV 460.63

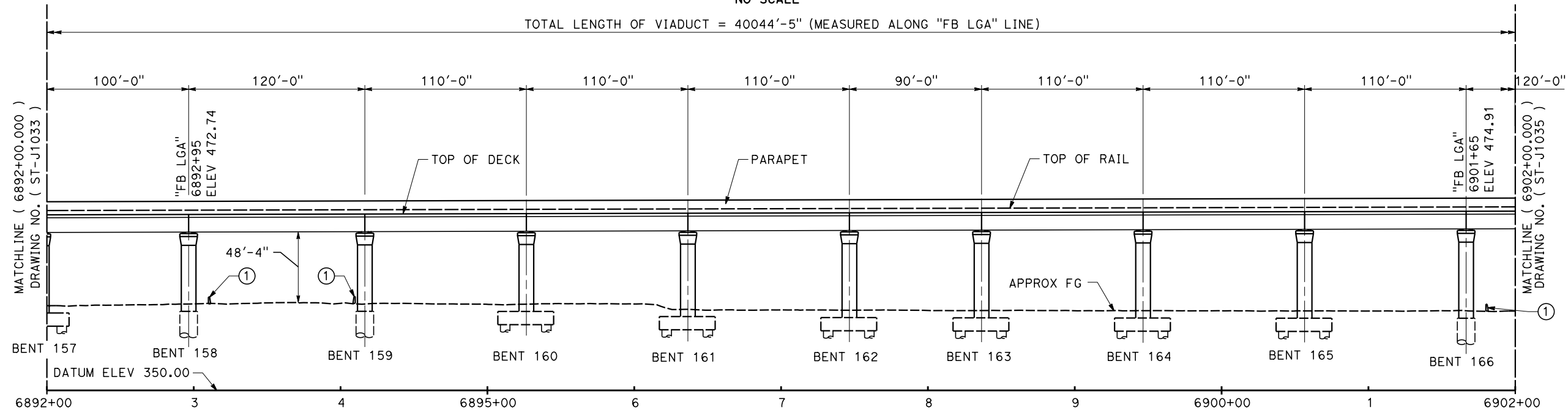
+0.250%

6912+00.00 BVC
ELEV 477.50

TOP OF RAIL "FB LGA" LINE

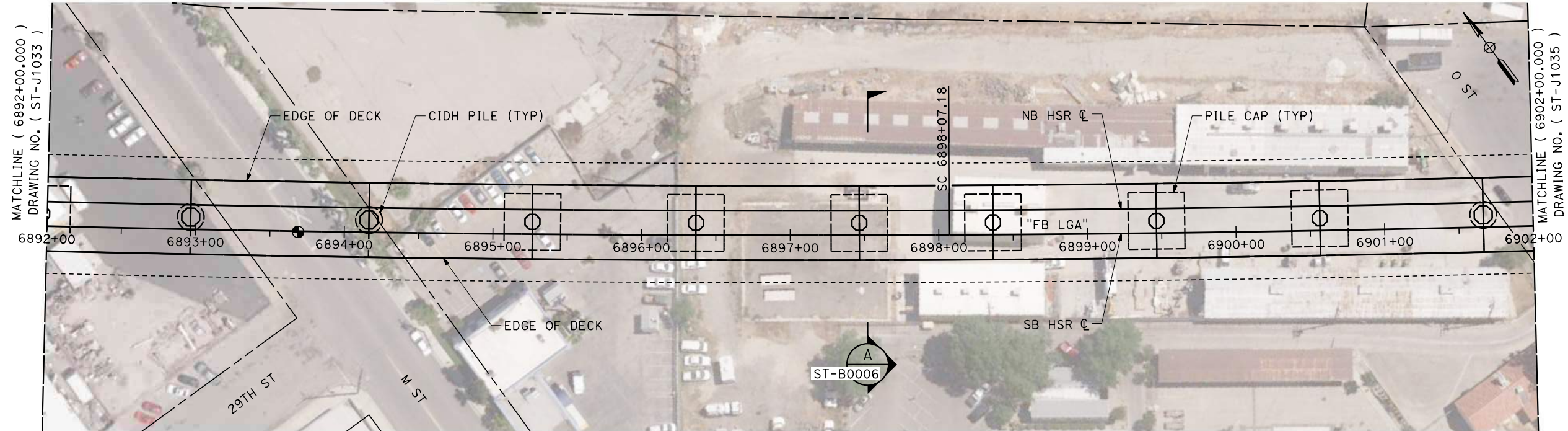
NO SCALE

TOTAL LENGTH OF VIADUCT = 40044'-5" (MEASURED ALONG "FB LGA" LINE)



ELEVATION

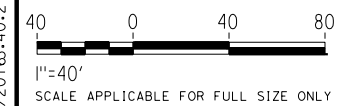
SCALE: 1" = 40'



PLAN

SCALE: 1" = 40'

TYL\KBeFy 10/14/2016 3:40:21 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N_BFSS\00_CADD\Sheet_Files\Track_Structure_Sheets\BFSSA-ST-J1034



REV	DATE	BY	CHK	APP	DESCRIPTION

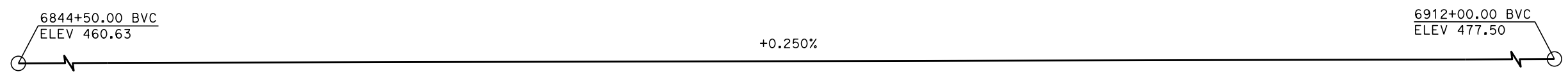
DESIGNED BY
E. HEREFORD
DRAWN BY
E. HEREFORD
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION

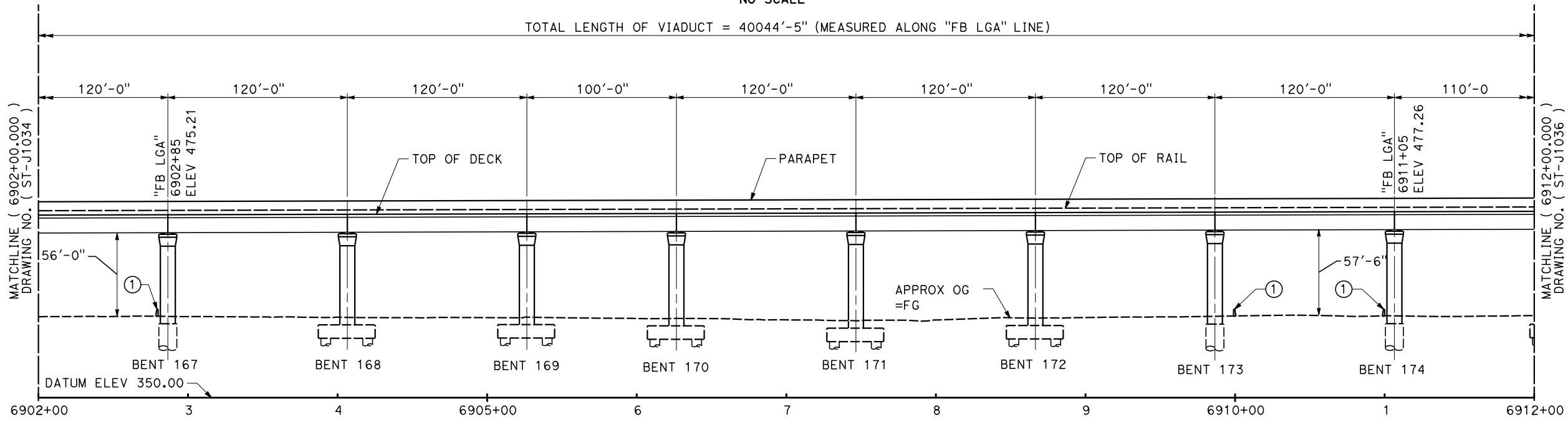


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6892+00 TO 6902+00
PLAN AND ELEVATION

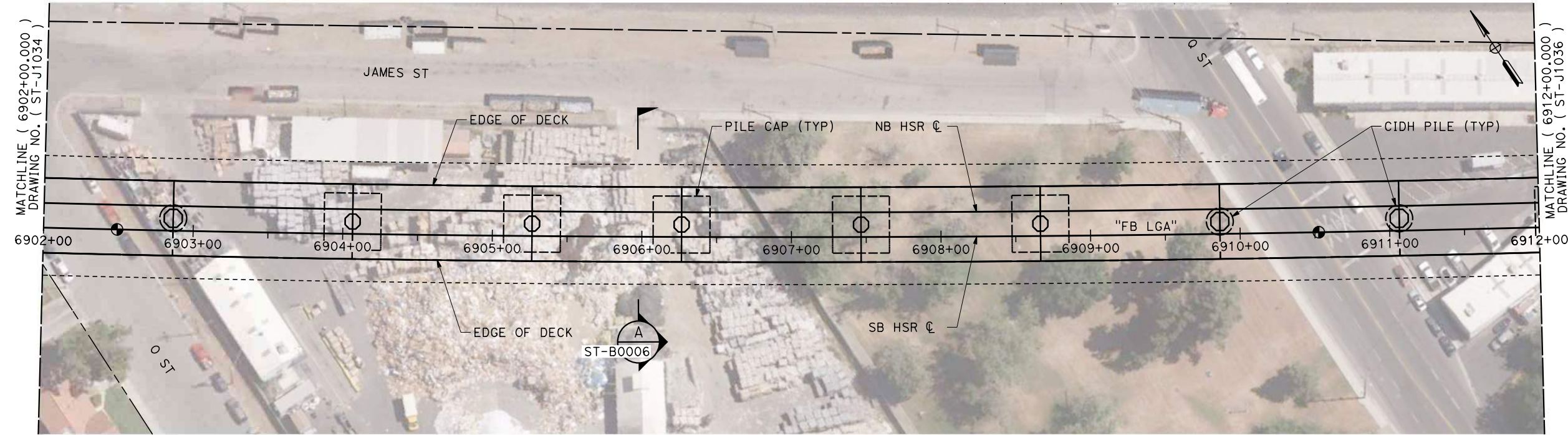
CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1034
SCALE
AS SHOWN
SHEET NO.
102



TOP OF RAIL "FB LGA" LINE
NO SCALE

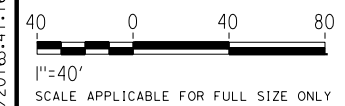


ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

TYL\KBeFy 10/14/2016 3:41:16 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N.BFSS\00 CADD\Sheet Files\Track Structure Sheets\BFSSA-ST-J1035



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
E. HEREFORD
DRAWN BY
E. HEREFORD
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6902+00 TO 6912+00
PLAN AND ELEVATION

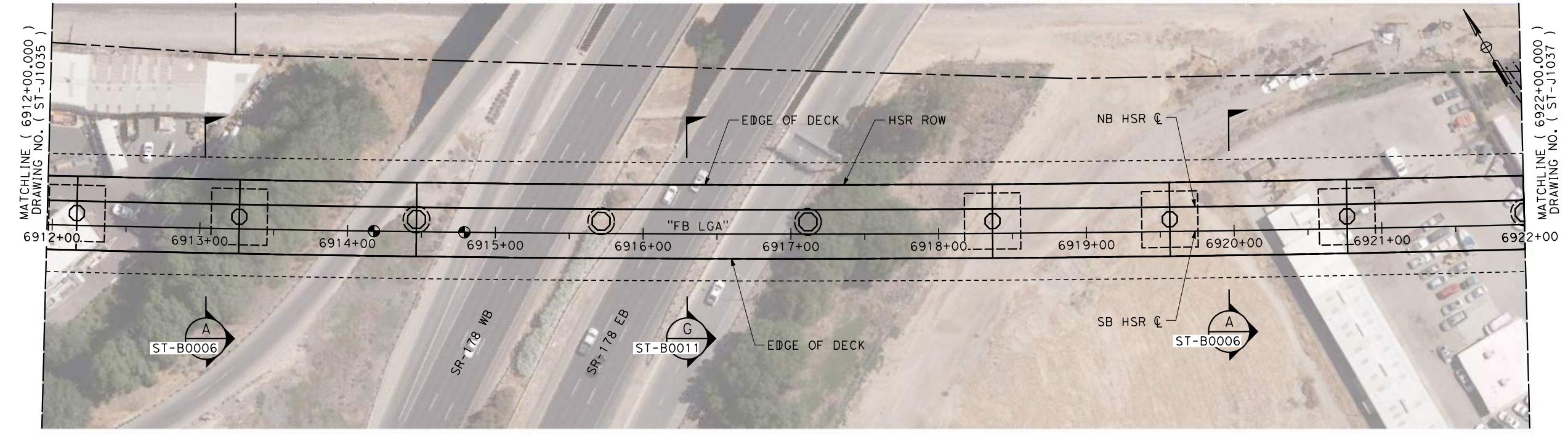
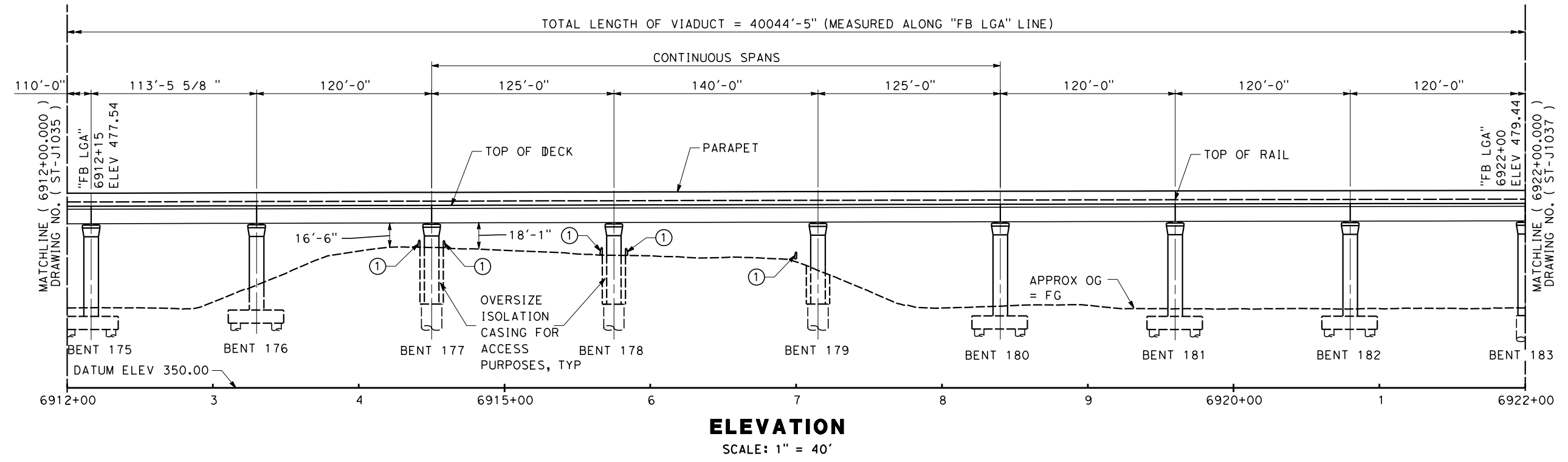
CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1035
SCALE
AS SHOWN
SHEET NO.
103

6912+00.00 BVC
ELEV 477.50

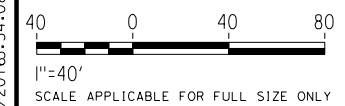
1600' VC
R/C= -0.011%/STA

6928+00.00 EVC
ELEV 480.06

TOP OF RAIL "FB LGA" LINE
NO SCALE



10/24/2016 3:54:08 PM CAHSR_PDF_half_black.plt: \\pwworking\tylin\p01\sdulor\dms27052\BFS5A-ST-J1036.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
N. METWASHLA

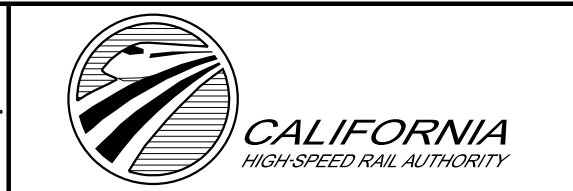
DRAWN BY
D. WILEY

CHECKED BY
S. DULOR

IN CHARGE
S. DULOR

DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



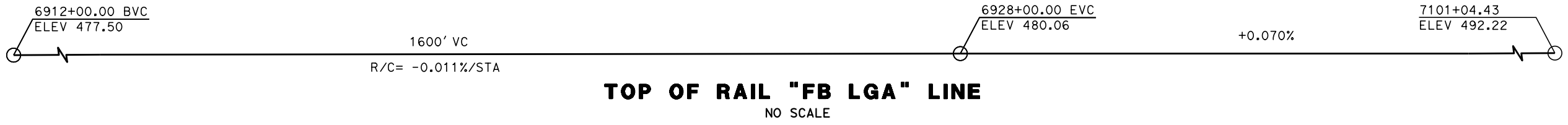
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6912+00 TO 6922+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44

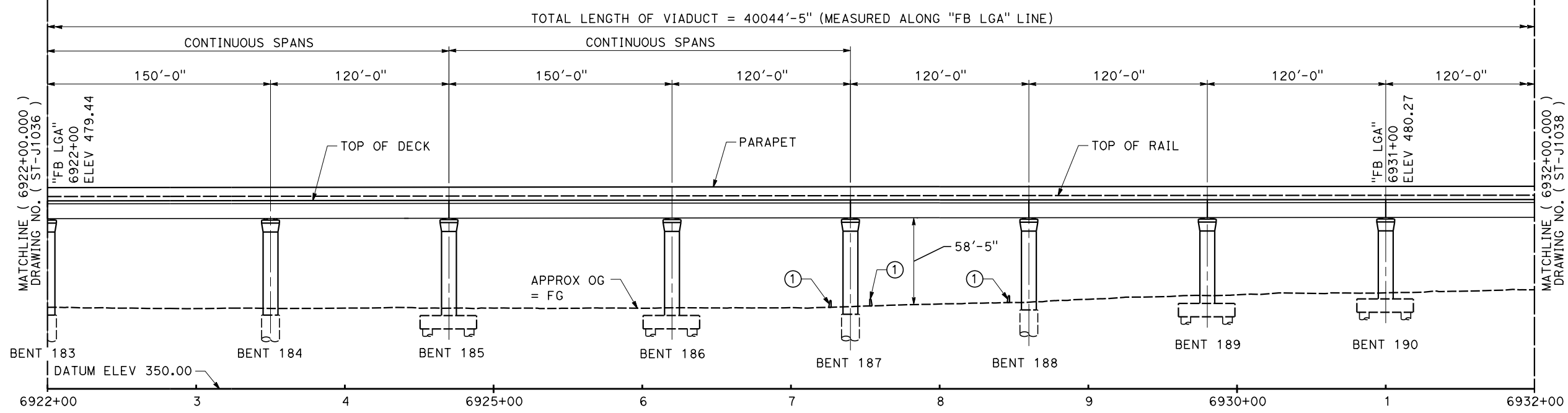
DRAWING NO.
ST-J1036

SCALE
AS SHOWN

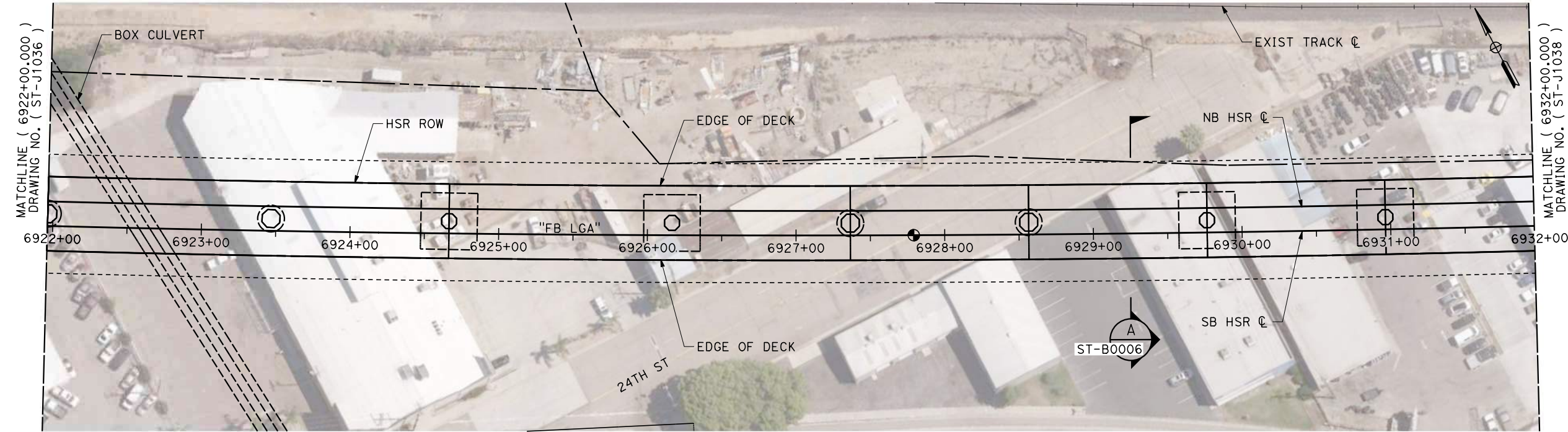
SHEET NO.
104



TOP OF RAIL "FB LGA" LINE
NO SCALE

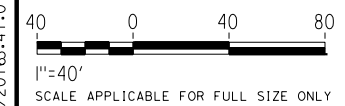


ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

TYL\KBeFy 10/14/2016 3:41:07 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N.BFSS\00_CADD\Sheet_Files\Track_Structure_Sheets\BFSSA-ST-J1037



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
N. METWASHLA
DRAWN BY
D. WILEY
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6922+00 TO 6932+00
PLAN AND ELEVATION

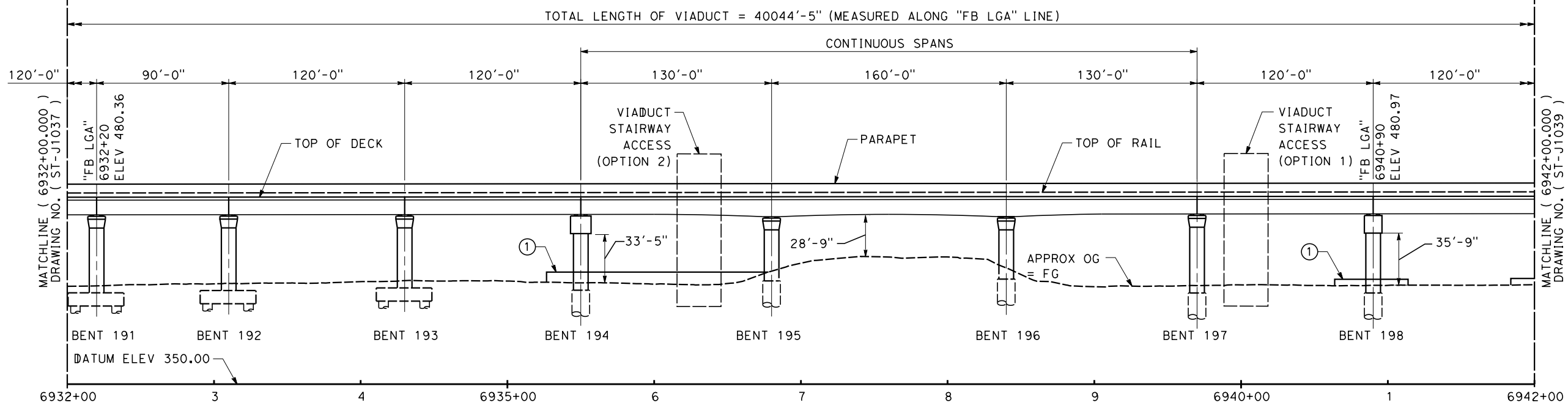
CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1037
SCALE
AS SHOWN
SHEET NO.
105

6928+00.00 EVC
ELEV 480.06

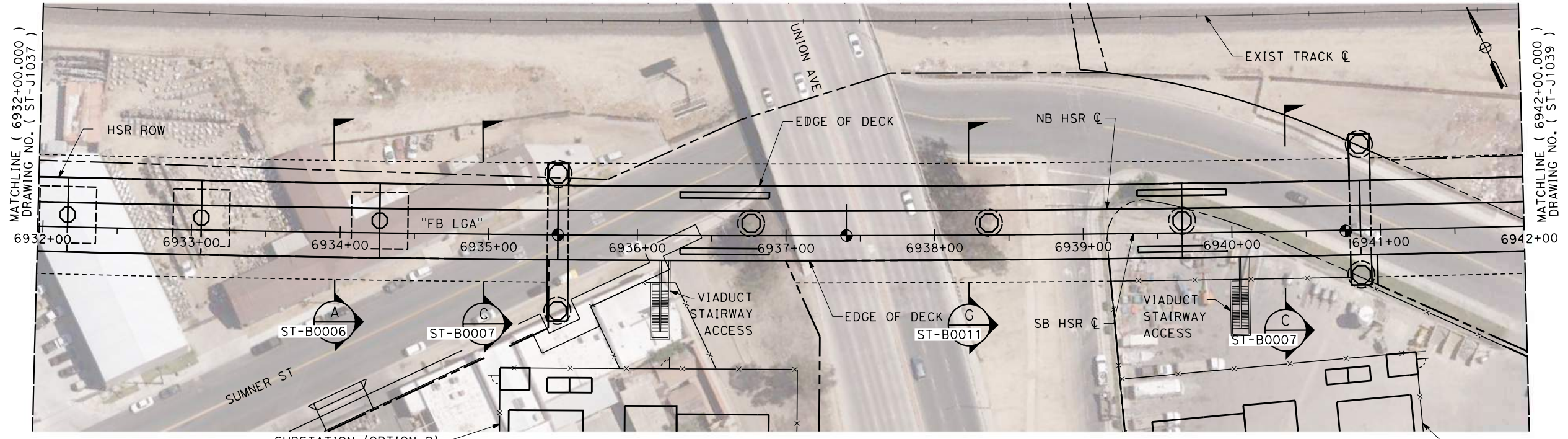
+0.070%

7101+04.43
ELEV 492.22

TOP OF RAIL "FB LGA" LINE
NO SCALE

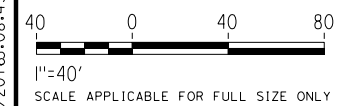


ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

10/25/2016 3:08:43 PM CAHSR-rfb1 CAHSR-rfb1\work\working\tylin\p01\sdulor\dms27052\BFSSA-ST-J1038.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
N. METWASHLA

DRAWN BY
D. WILEY

CHECKED BY
S. DULOR

IN CHARGE
S. DULOR

DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



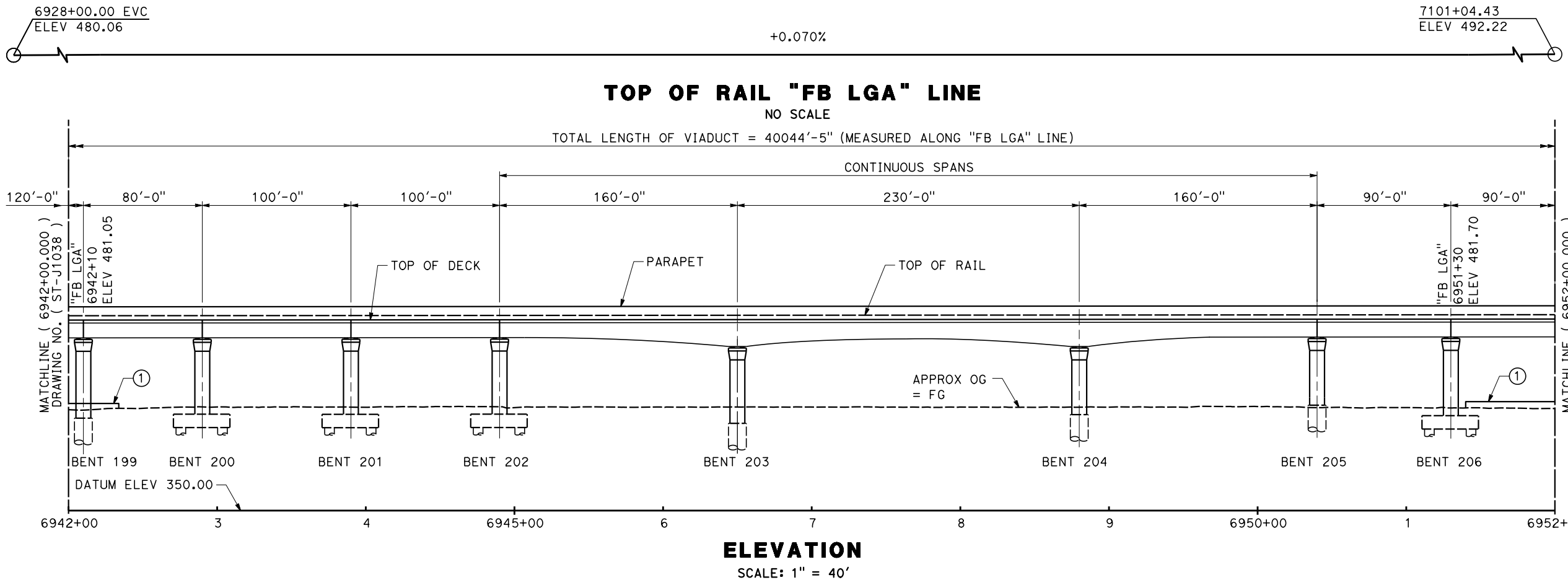
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6932+00 TO 6942+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44

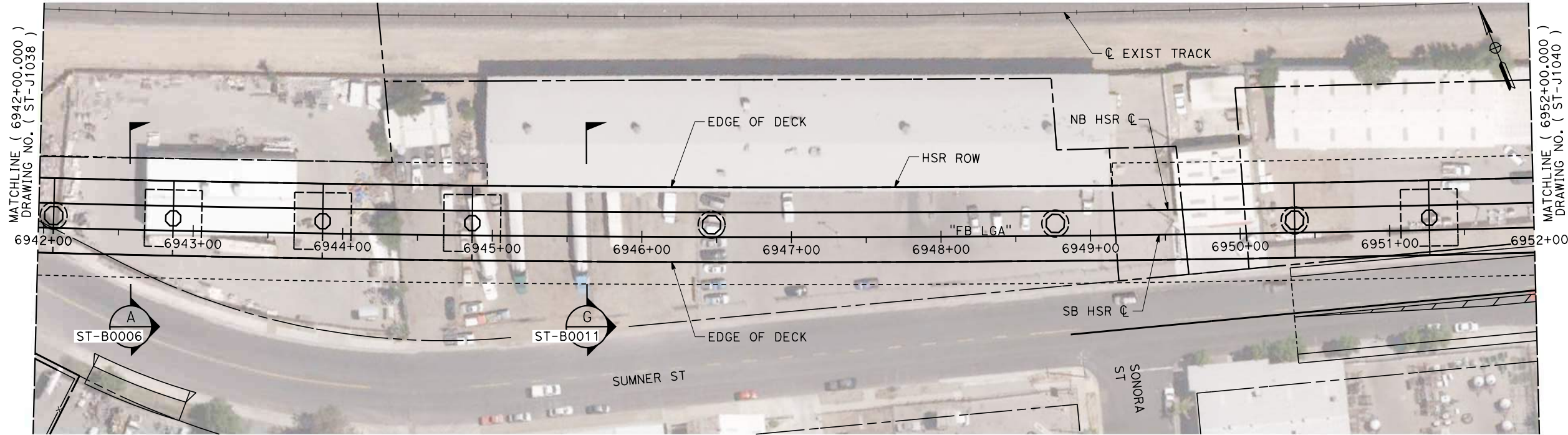
DRAWING NO.
ST-J1038

SCALE
AS SHOWN

SHEET NO.
106



ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

TYLIN\kberfy 10/14/2016 3:37:11 PM \$PENTBLS.\$ \$PLTDRVS\$ Projects\701206.N_BFSS\00_CADD\Sheet_Files\Track_Structure_Sheets\BFSSA-ST-J1039

REV	DATE	BY	CHK	APP	DESCRIPTION

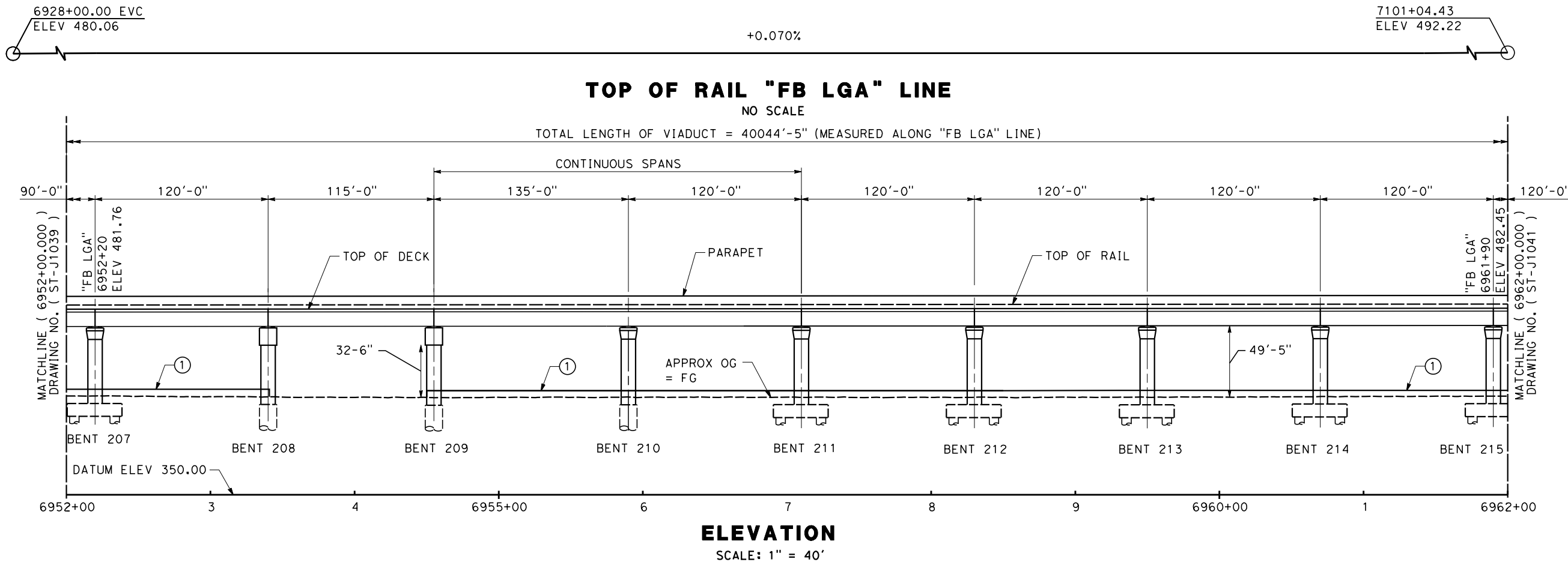
DESIGNED BY
N. METWASHLA
DRAWN BY
D. WILEY
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION

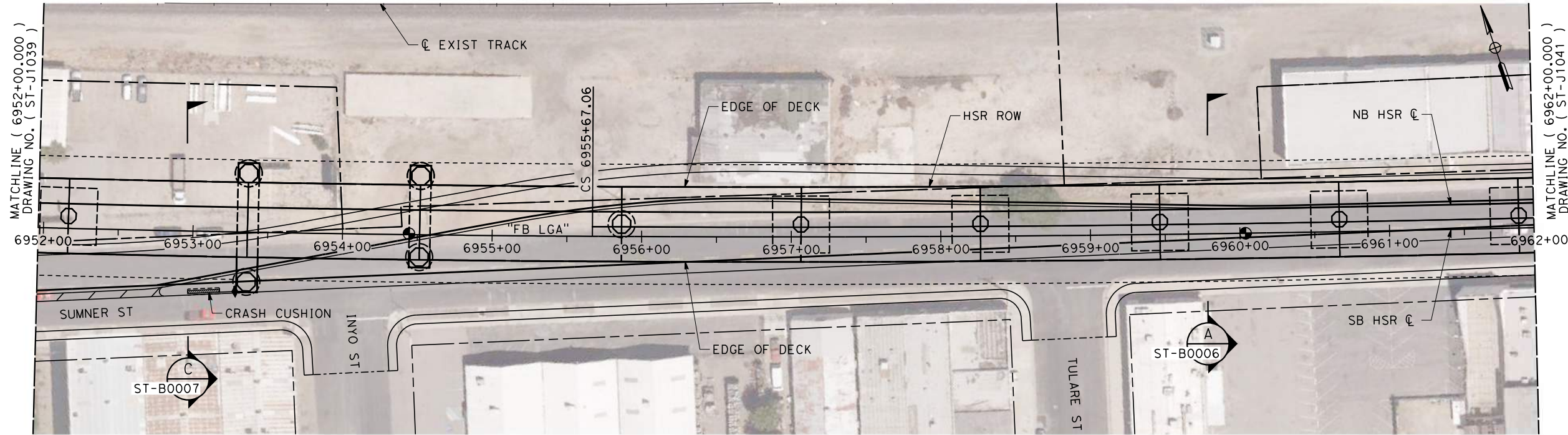


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6942+00 TO 6952+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1039
SCALE
AS SHOWN
SHEET NO.
107

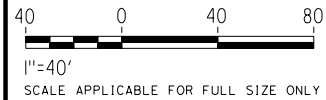


ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

10/27/2016 10:04:48 PM CAHSR-rbl CAHSR-rbl CHSR_PDF_half_black.plt: \\pwworking\tylin\p01\sdulor\dms27052\BFSSA-ST-J1040.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
N. METWASHLA
DRAWN BY
D. WILEY
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

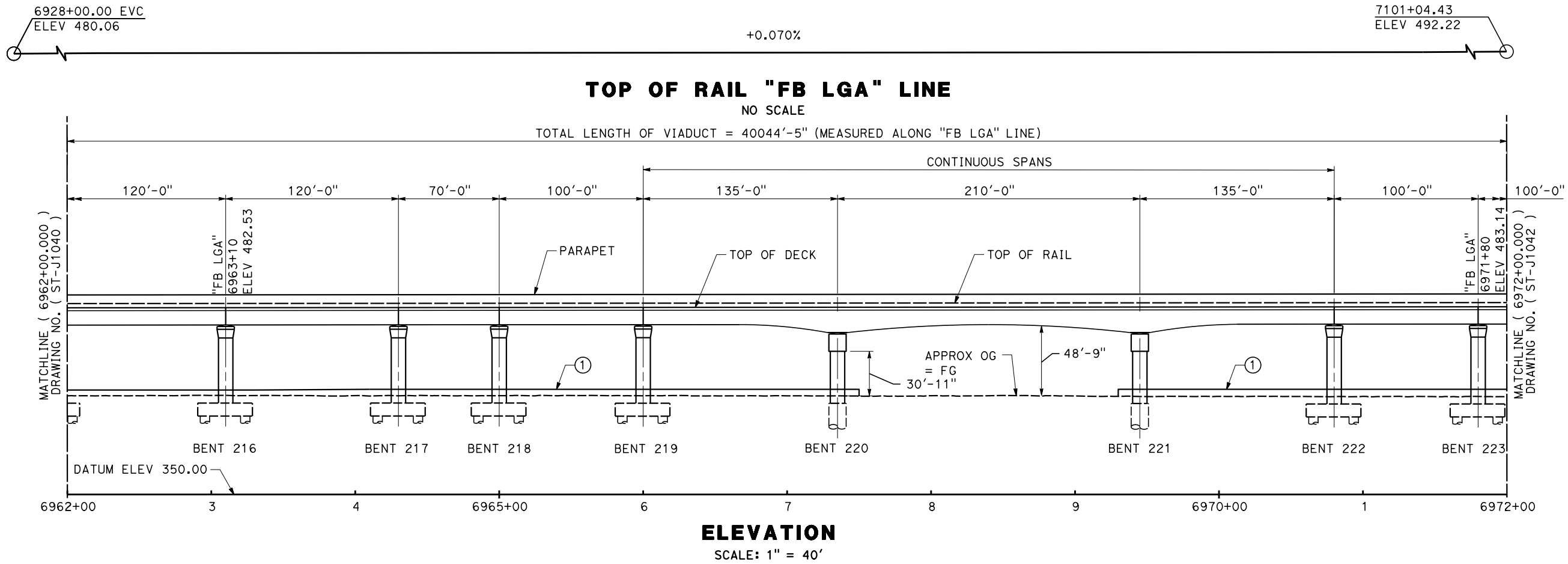
RECORD SET
PEPD DESIGN
SUBMISSION

TYLIN INTERNATIONAL

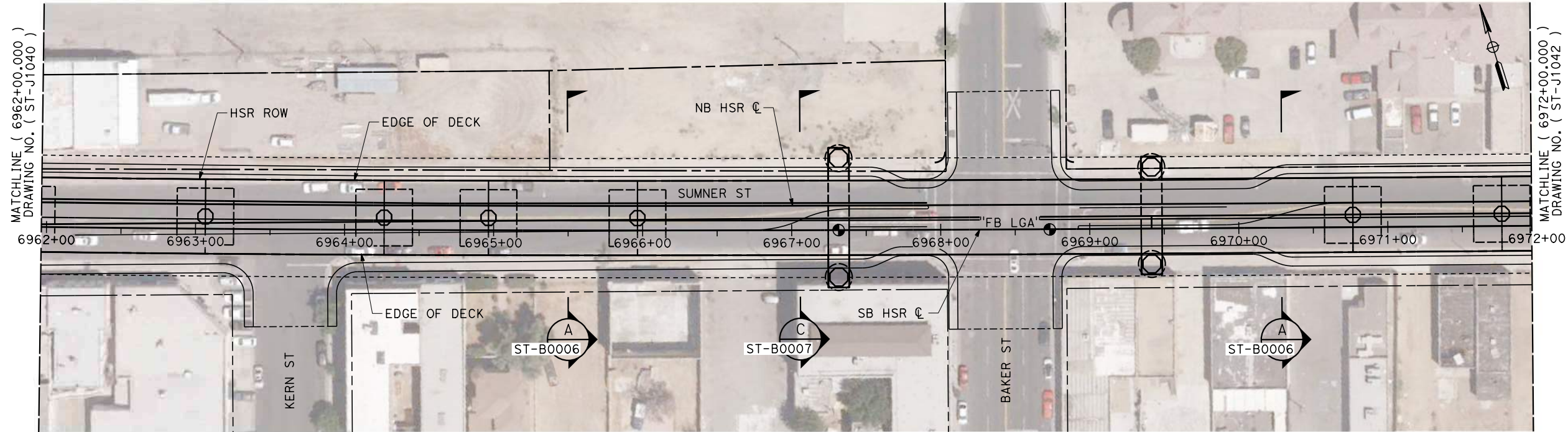


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6952+00 TO 6962+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1040
SCALE
AS SHOWN
SHEET NO.
108

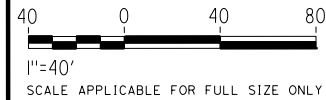


ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

TYLINKBerry 10/14/2016 3:39:42 PM \$PENTBLS\$ \$PLTDRVS\$ Projects\701206.N.BFSS\00 CADD\Sheet Files\Track Structure Sheets\BFSSA-ST-J1041



REV	DATE	BY	CHK	APP	DESCRIPTION

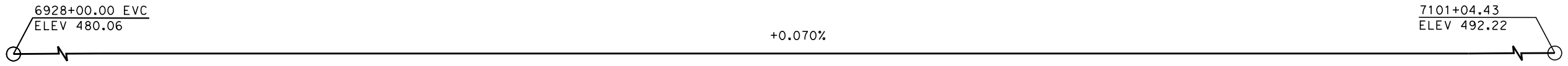
DESIGNED BY
N. METWASHLA
DRAWN BY
D. WILEY
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



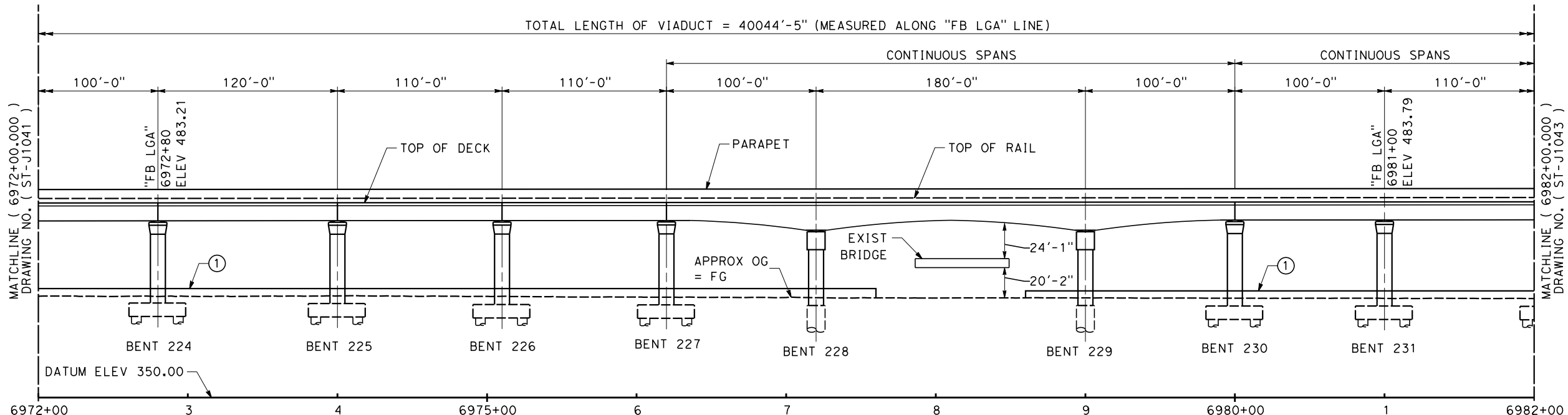
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6962+00 TO 6972+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1041
SCALE
AS SHOWN
SHEET NO.
109

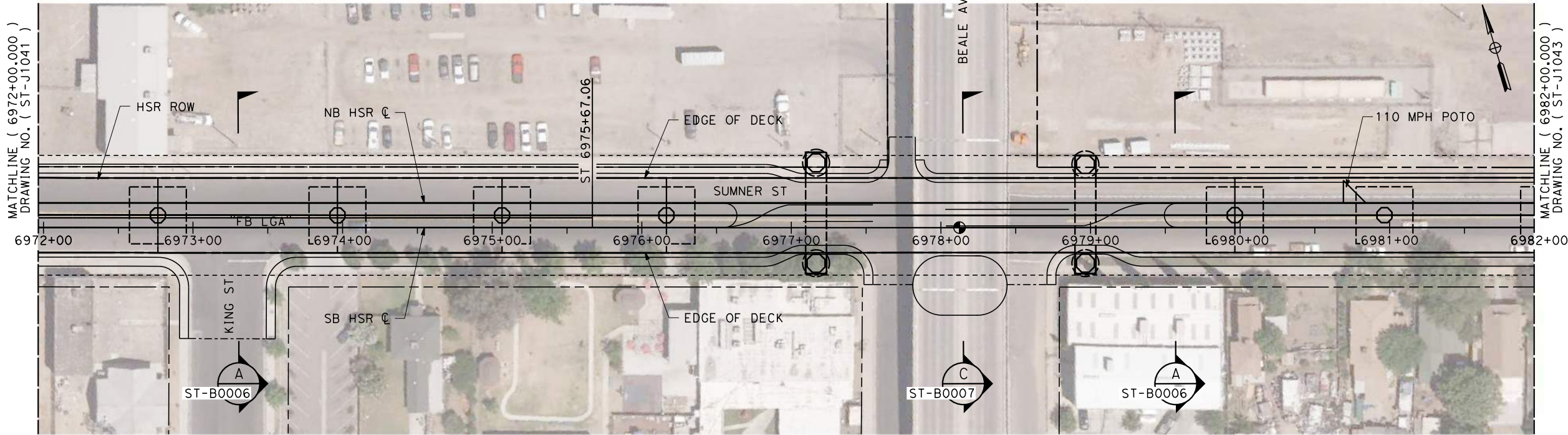


TOP OF RAIL "FB LGA" LINE
NO SCALE

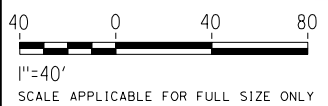
TOTAL LENGTH OF VIADUCT = 40044'-5" (MEASURED ALONG "FB LGA" LINE)



ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'



10/25/2016 2:48:10 PM CAHSR-tp1 CAHSR-tp1.ctb \\sdulor\work\working\tylin\p01\sdulor\dms27052\BFSSA-ST-J1042.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

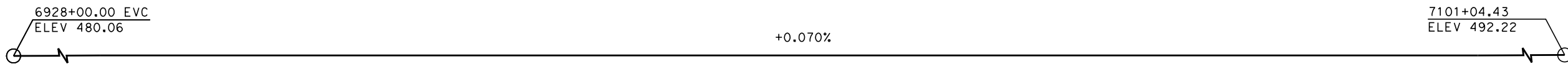
DESIGNED BY
N. METWASHLA
DRAWN BY
D. WILEY
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION

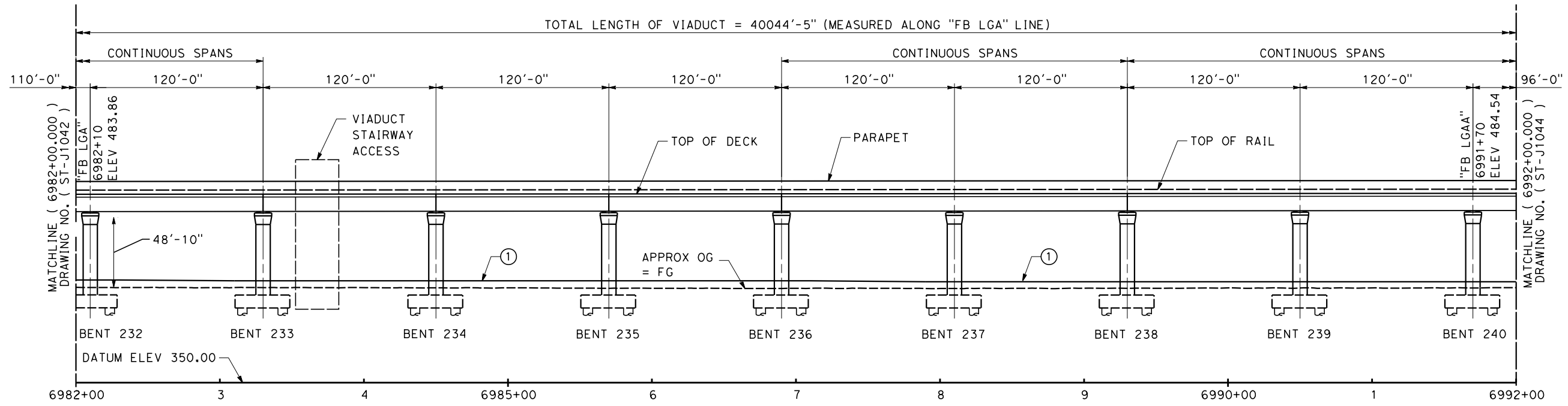


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6972+00 TO 6982+00
PLAN AND ELEVATION

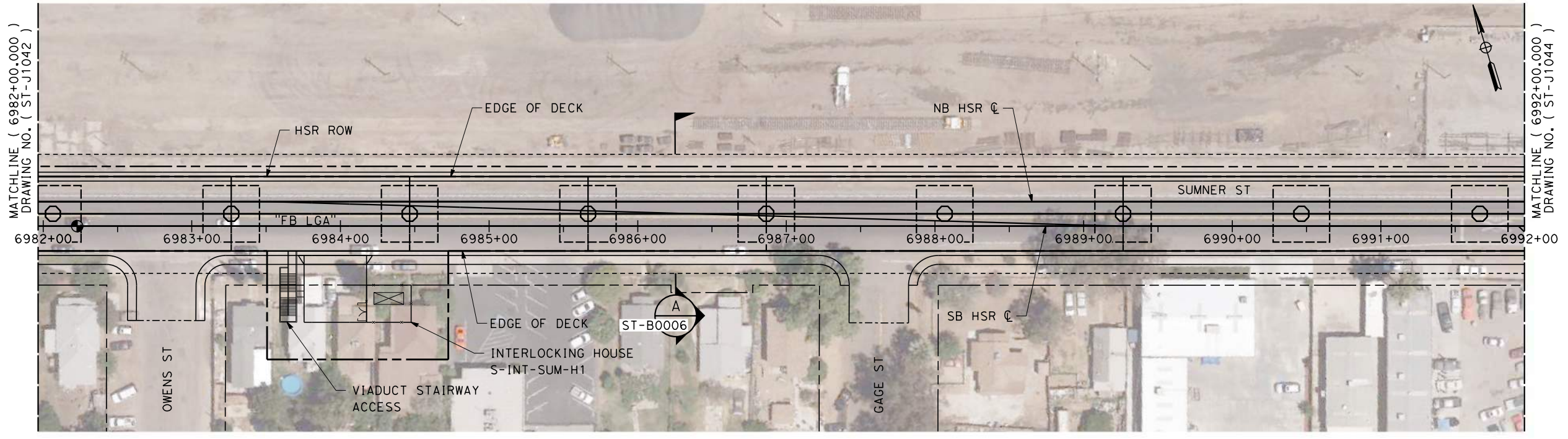
CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1042
SCALE
AS SHOWN
SHEET NO.
110



TOP OF RAIL "FB LGA" LINE
NO SCALE



ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

10/25/2016 3:17:09 PM CAHSR-tp1 CHSR_PDF_half_black.plt: \\pwworking\tylin\p01\sdulor\dms27052\BFSSA-ST-J1043.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

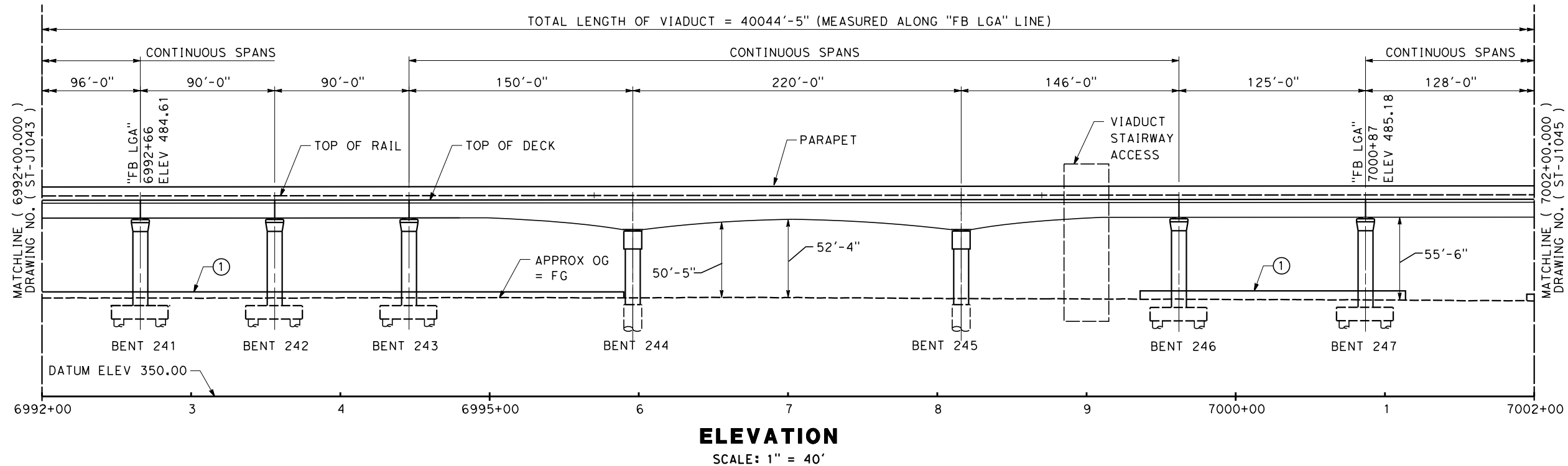
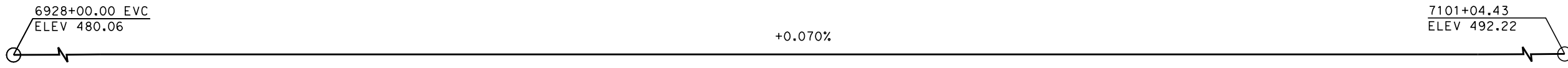
DESIGNED BY
N. METWASHLA
DRAWN BY
D. WILEY
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION

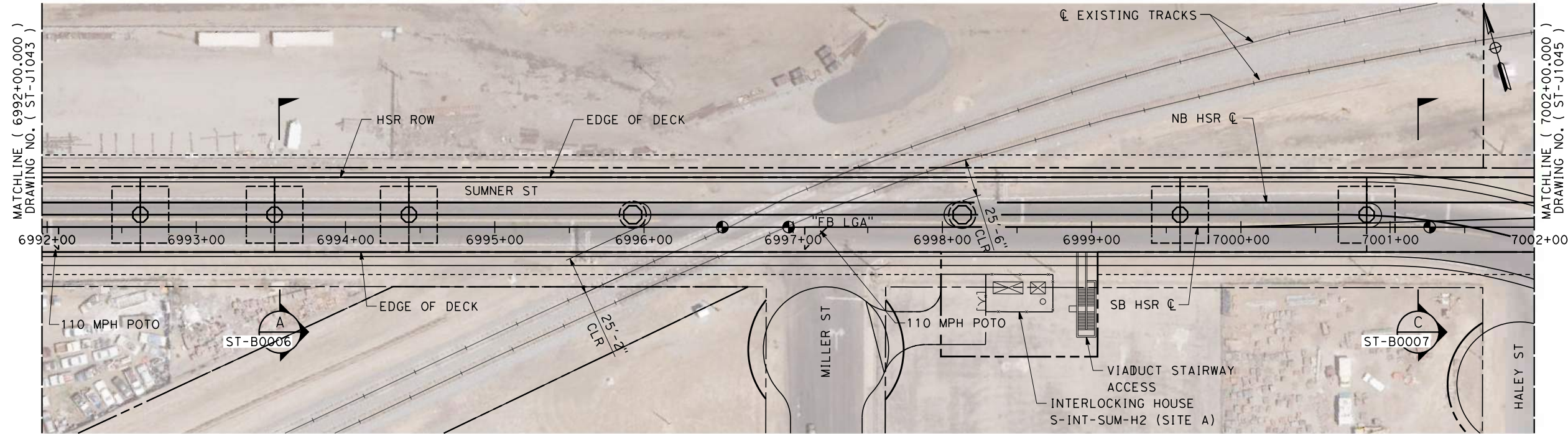


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6982+00 TO 6992+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1043
SCALE
AS SHOWN
SHEET NO.
111

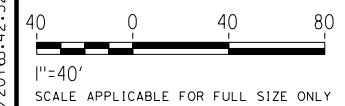


ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

10/24/2016 4:21:52 PM CAHSR-tbl CHSR_PDF_half_black.plt: \\pwworking\tylin\p01\sdulor\dms27052\BFSSA-ST-J1044.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
N. METWASHLA
DRAWN BY
D. WILEY
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION

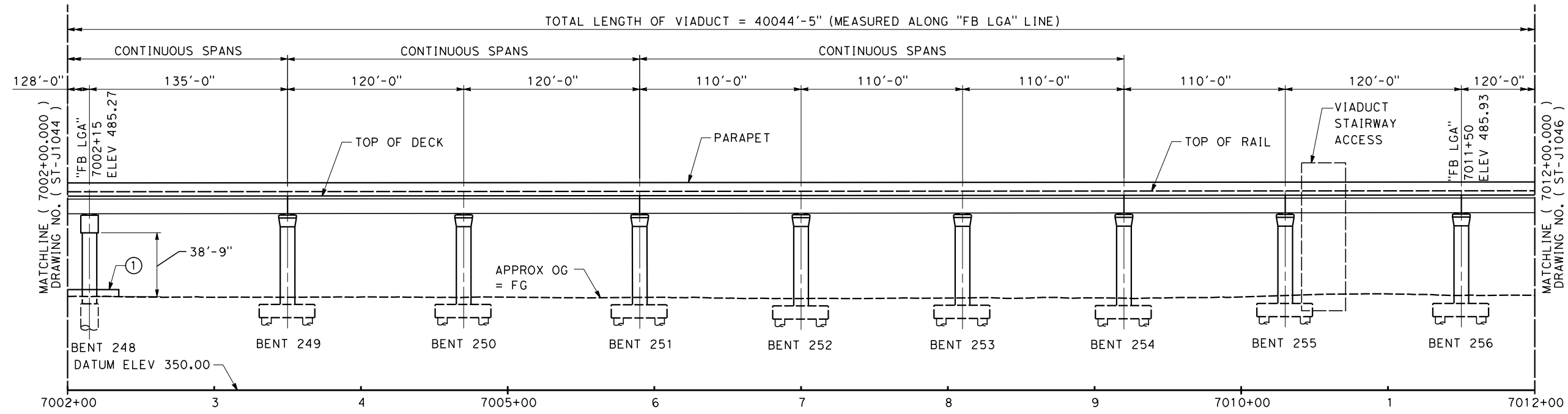


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6992+00 TO 7002+00
PLAN AND ELEVATION

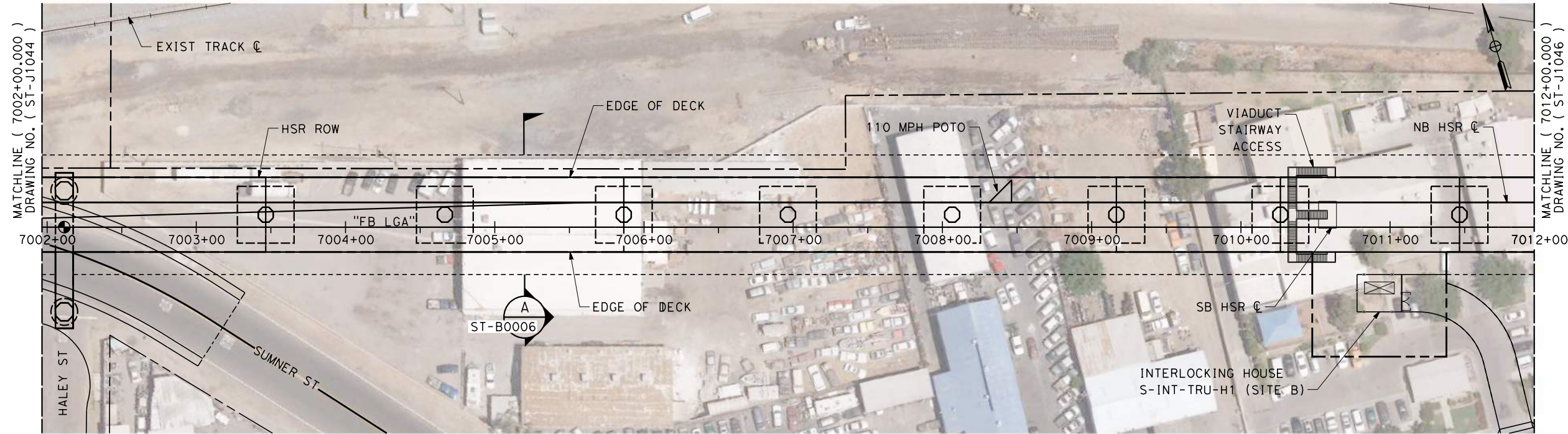
CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1044
SCALE
AS SHOWN
SHEET NO.
112

6928+00.00 EVC ELEV 480.06 +0.070% 7101+04.43 ELEV 492.22

TOP OF RAIL "FB LGA" LINE
NO SCALE



ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

10/27/2016 2:47:28 PM CAHSR-ST-J1045.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
N. METWASHLA

DRAWN BY
D. WILEY

CHECKED BY
S. DULOR

IN CHARGE
S. DULOR

DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



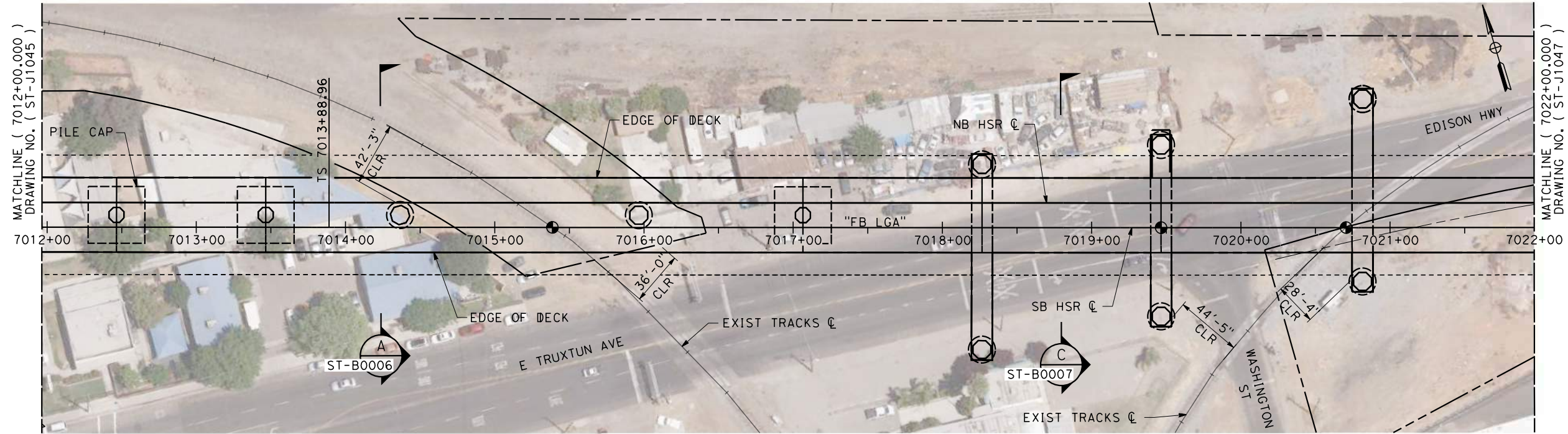
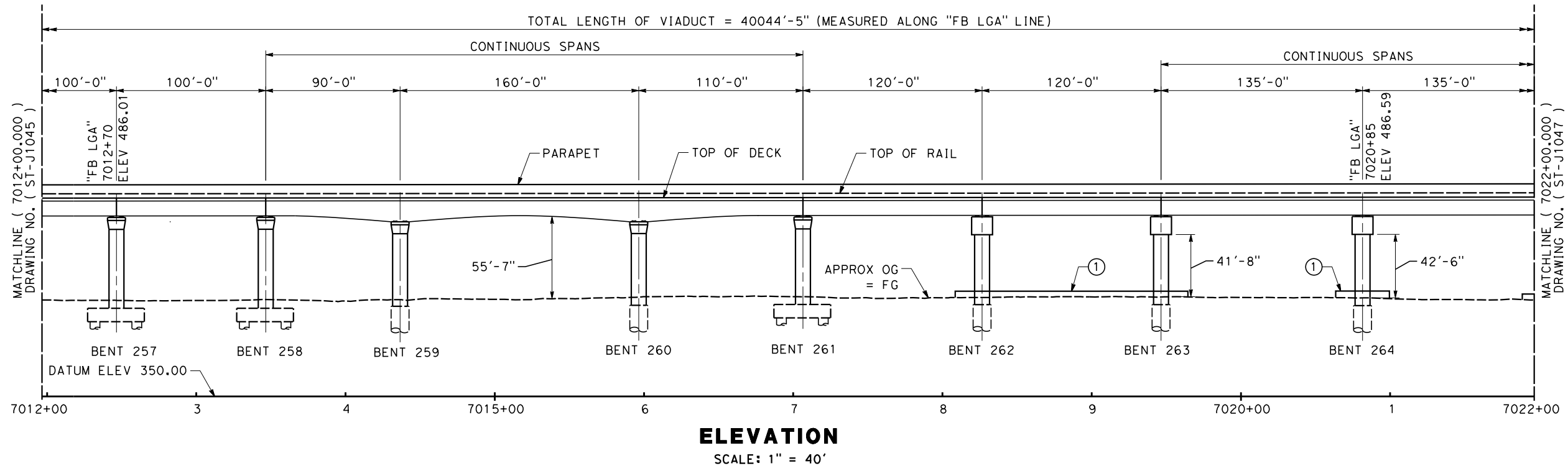
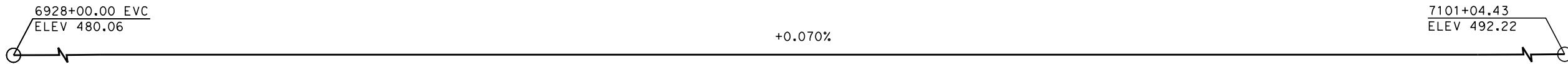
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 7002+00 TO 7012+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44

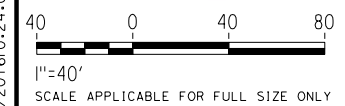
DRAWING NO.
ST-J1045

SCALE
AS SHOWN

SHEET NO.
113



10/27/2016 10:24:06 AM CAHSR-101 CAHSR-101 CHSR_PDF_half_black.plt \\c:\pwworking\tylin\ipw01\sdulor\dms27052\BFSSA-ST-J1046.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. BERRY
DRAWN BY
K. BERRY
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

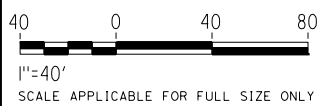
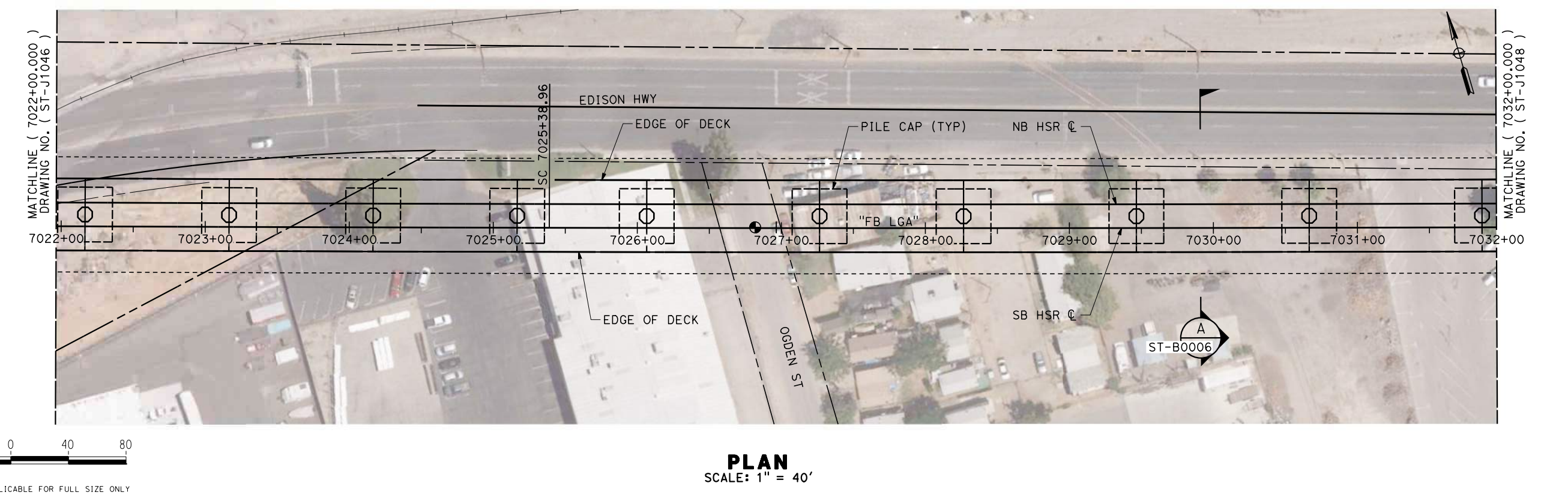
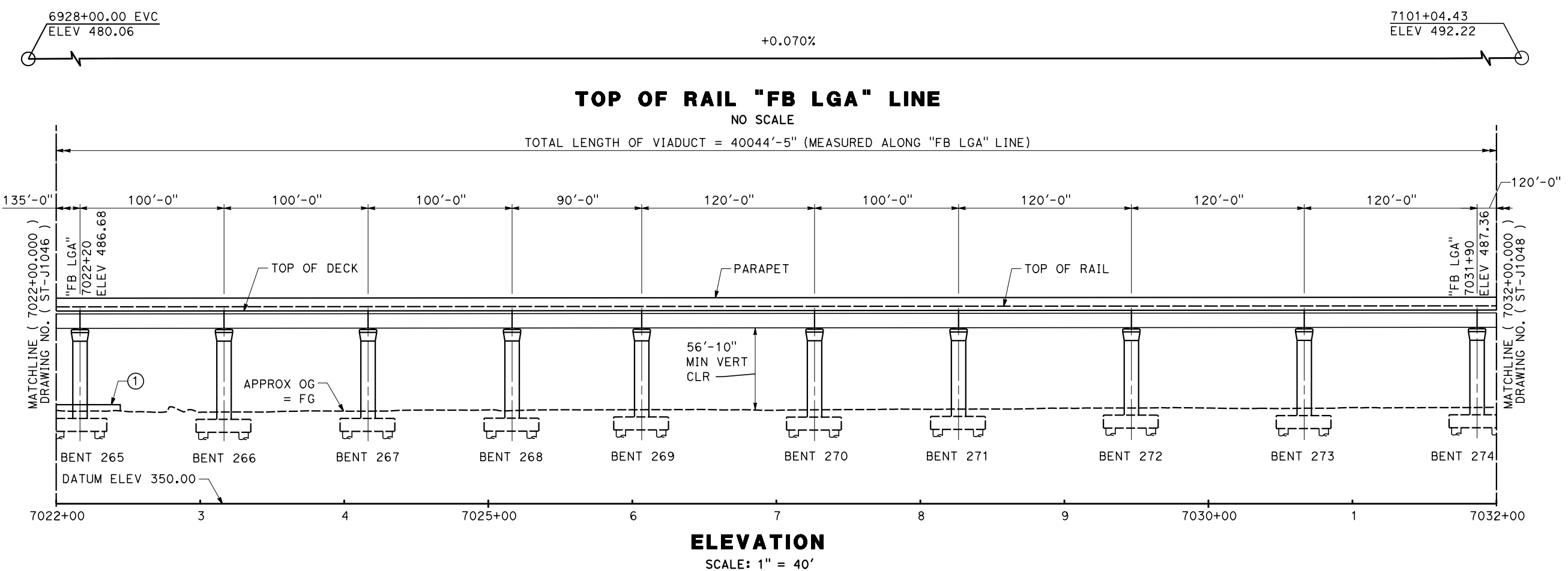
RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 7012+00 TO 7022+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1046
SCALE
AS SHOWN
SHEET NO.
114

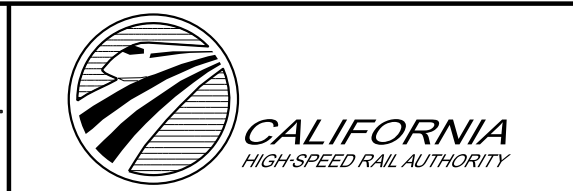
TYL\KBerry 10/14/2016 3:40:18 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N_BFSS\00_CADD\Sheet_Files\Track_Structure_Sheets\BFSSA-ST-J1047



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. BERRY
DRAWN BY
K. BERRY
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION

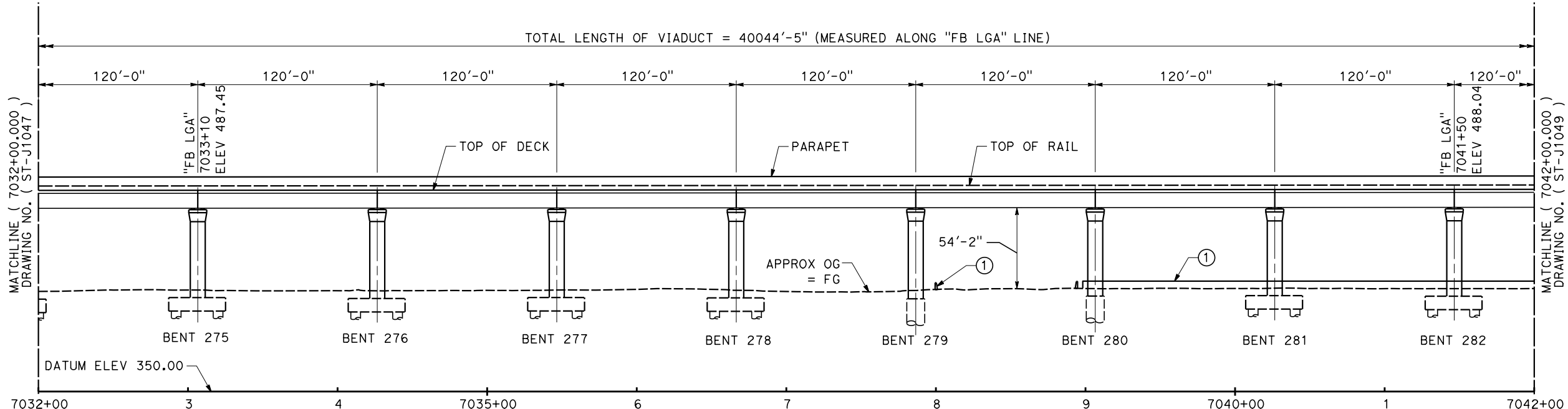


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 7022+00 TO 7032+00
PLAN AND ELEVATION

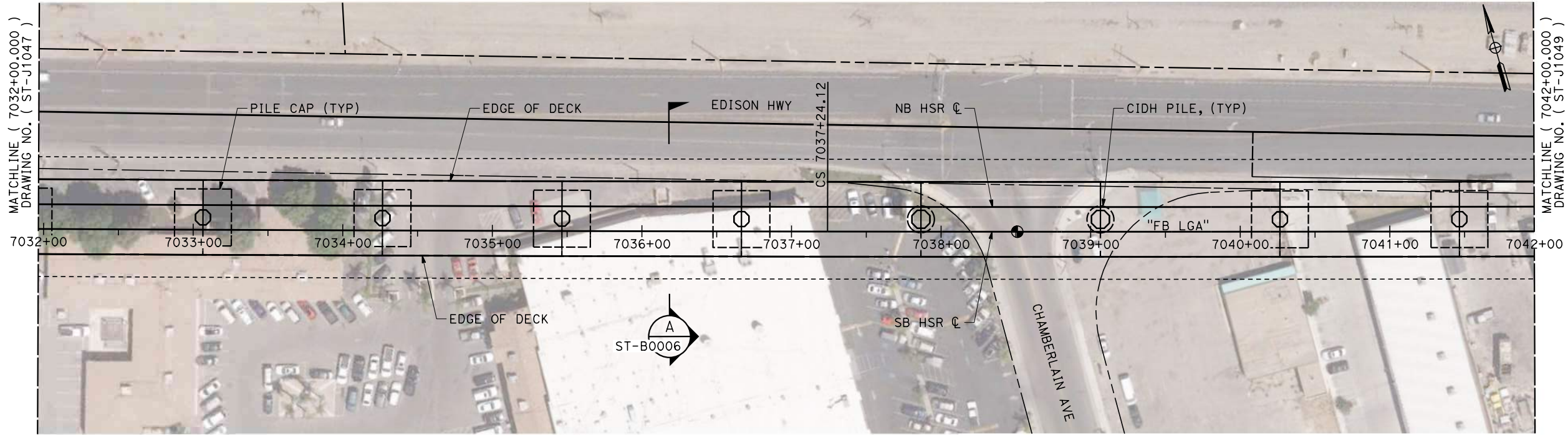
CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1047
SCALE
AS SHOWN
SHEET NO.
115

6928+00.00 EVC ELEV 480.06 +0.070% 7101+04.43 ELEV 492.22

TOP OF RAIL "FB LGA" LINE
NO SCALE

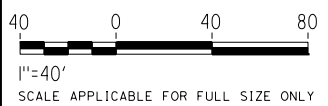


ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

TYL\KBerry 10/14/2016 3:40:42 PM \$PLTDRVS\$ \$PENTBL\$ \$



REV	DATE	BY	CHK	APP	DESCRIPTION

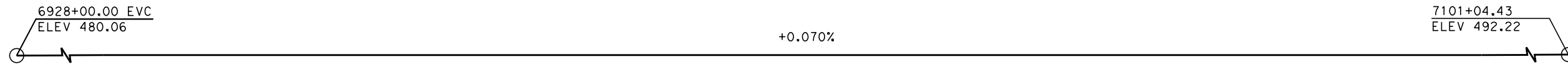
DESIGNED BY
K. BERRY
DRAWN BY
K. BERRY
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



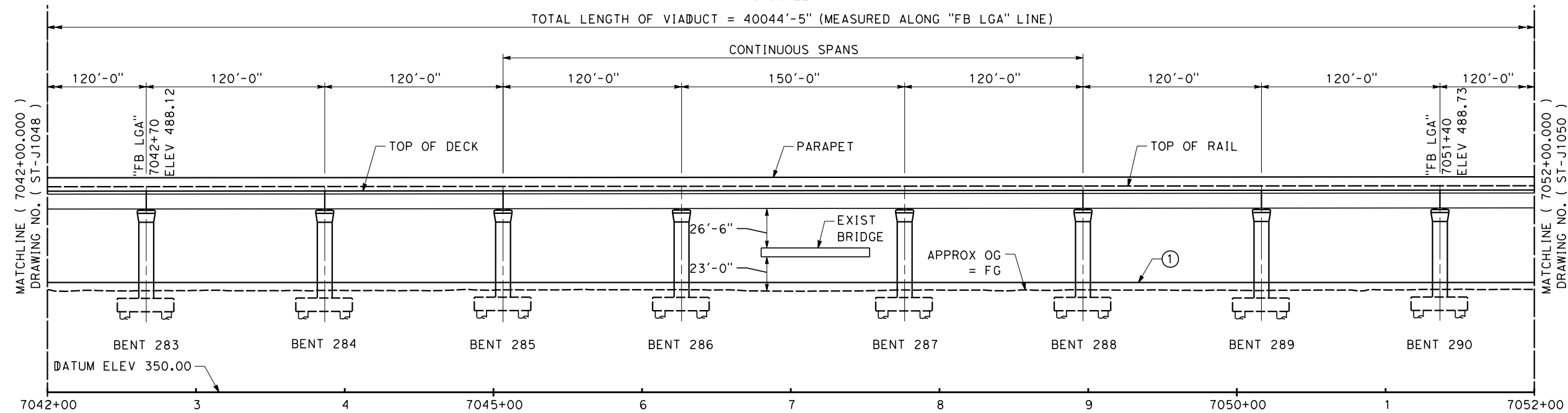
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 7032+00 TO 7042+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1048
SCALE
AS SHOWN
SHEET NO.
116



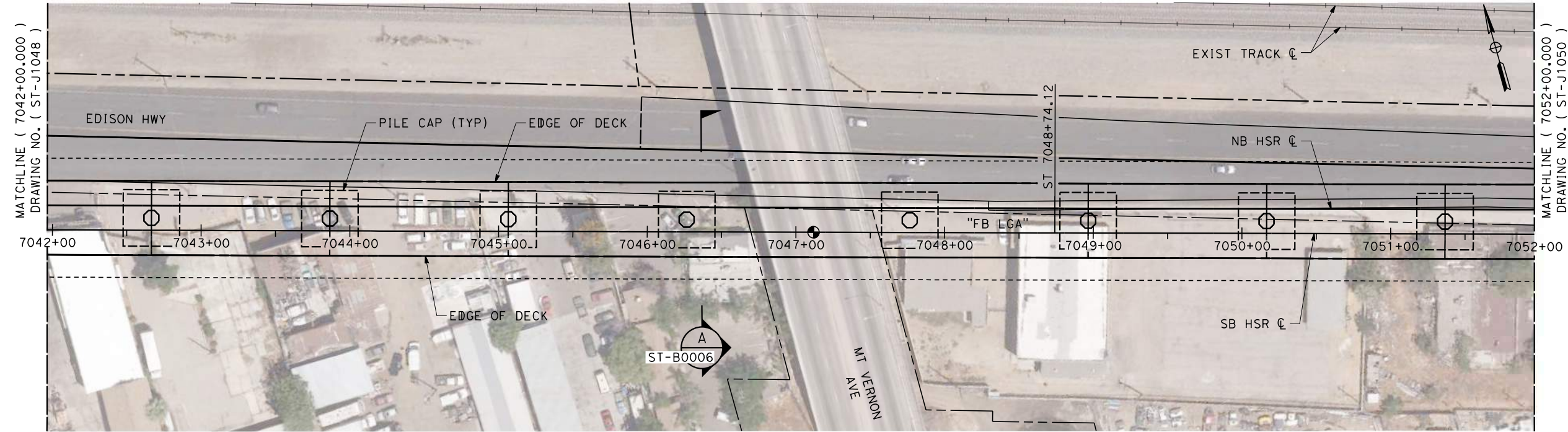
TOP OF RAIL "FB LGA" LINE

NO SCALE



ELEVATION

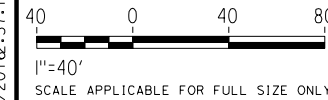
SCALE: 1" = 40'



PLAN

SCALE: 1" = 40'

10/25/2016 2:37:15 PM CAHSR_PDF_half_black.plt: \\pwworking\tylin\p01\sdulor\dms27052\BFSSA-ST-J1049.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. BERRY
DRAWN BY
K. BERRY
CHECKED BY
S. DULOR
IN CHARGE
S. DULOR
DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 7042+00 TO 7052+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1049
SCALE
AS SHOWN
SHEET NO.
117

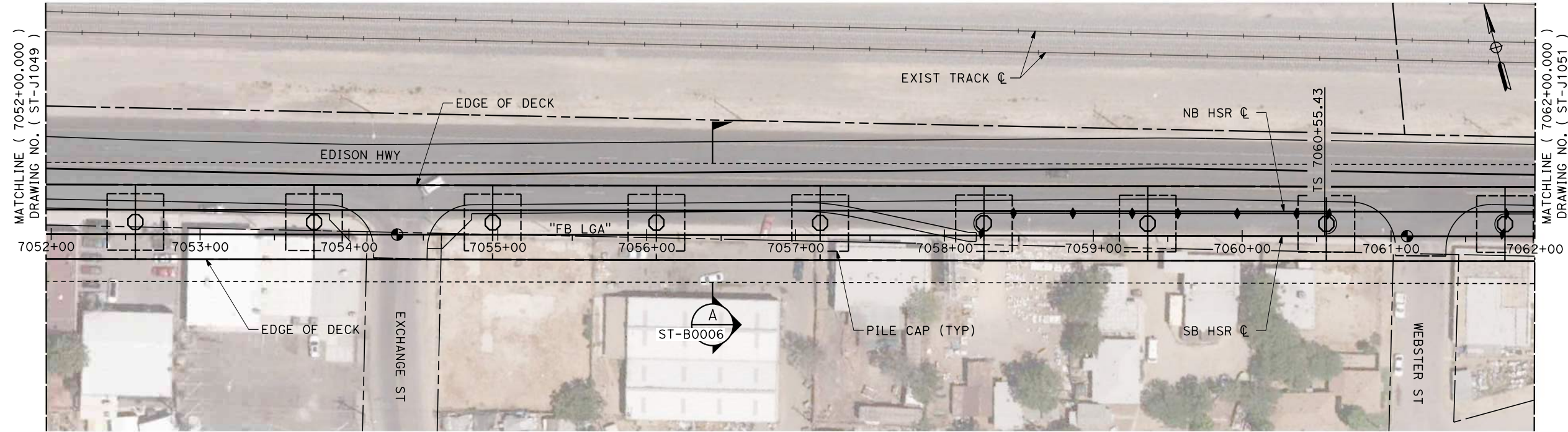
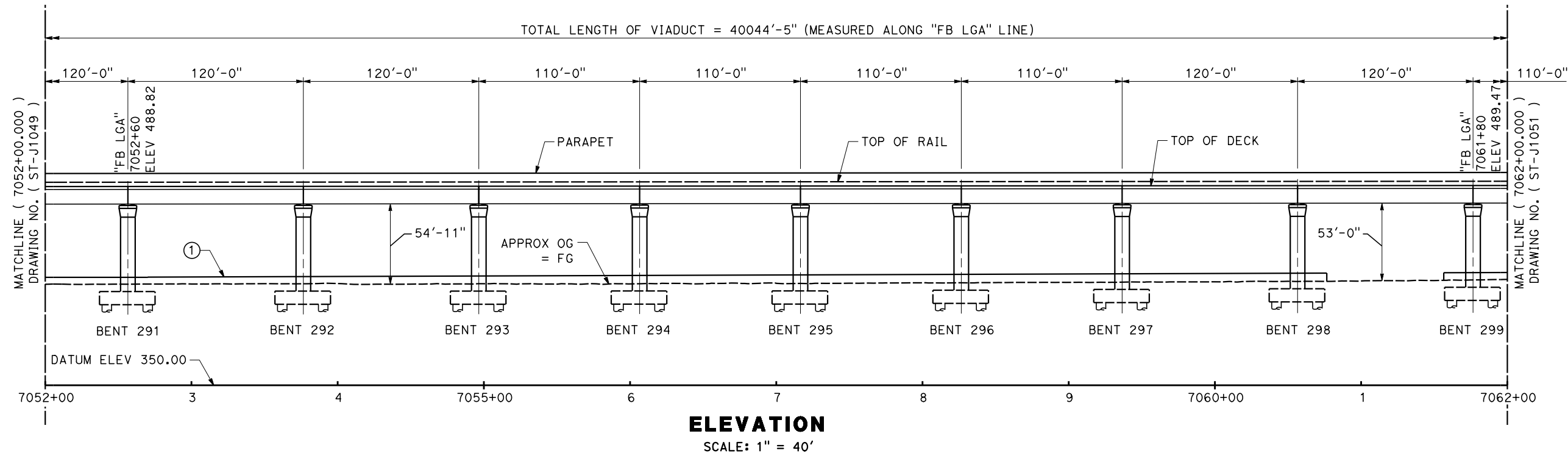
6928+00.00 EVC
ELEV 480.06

+0.070%

7101+04.43
ELEV 492.22

TOP OF RAIL "FB LGA" LINE

NO SCALE



PLAN

SCALE: 1" = 40'

TYL\KBerry 10/14/2016 3:40:59 PM \$PENTBL\$.S\$ \$PLTDRVS\$ Projects\701206.N_BFSS\00_CADD\Sheet_Files\Track_Structure_Sheets\BFSSA-ST-J1050

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. BERRY

DRAWN BY
K. BERRY

CHECKED BY
S. DULOR

IN CHARGE
S. DULOR

DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 7052+00 TO 7062+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44

DRAWING NO.
ST-J1050

SCALE
AS SHOWN

SHEET NO.
118

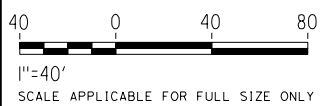
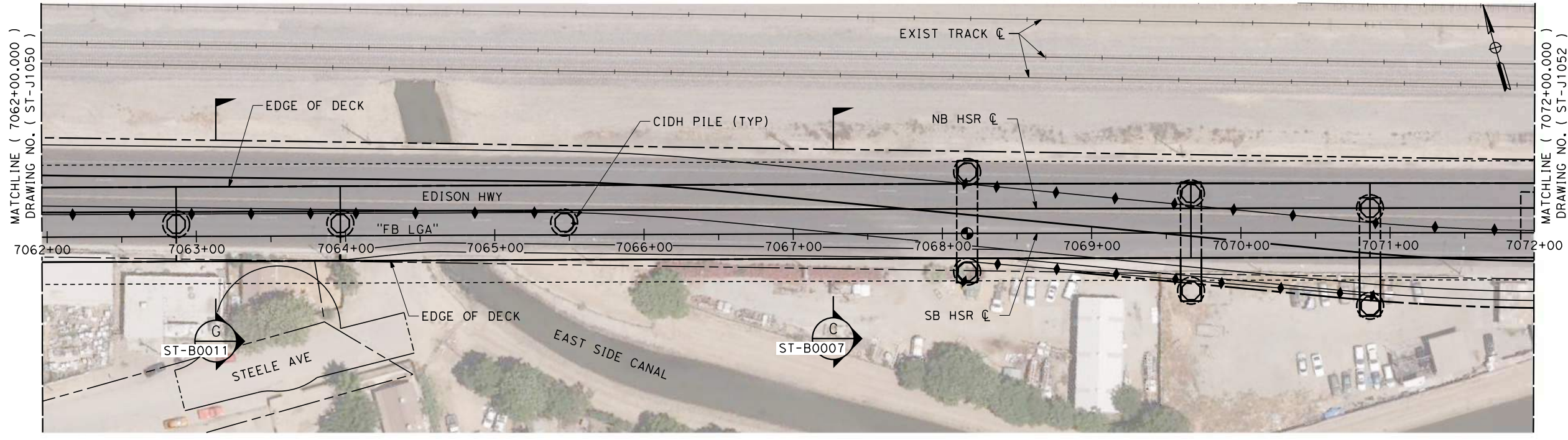
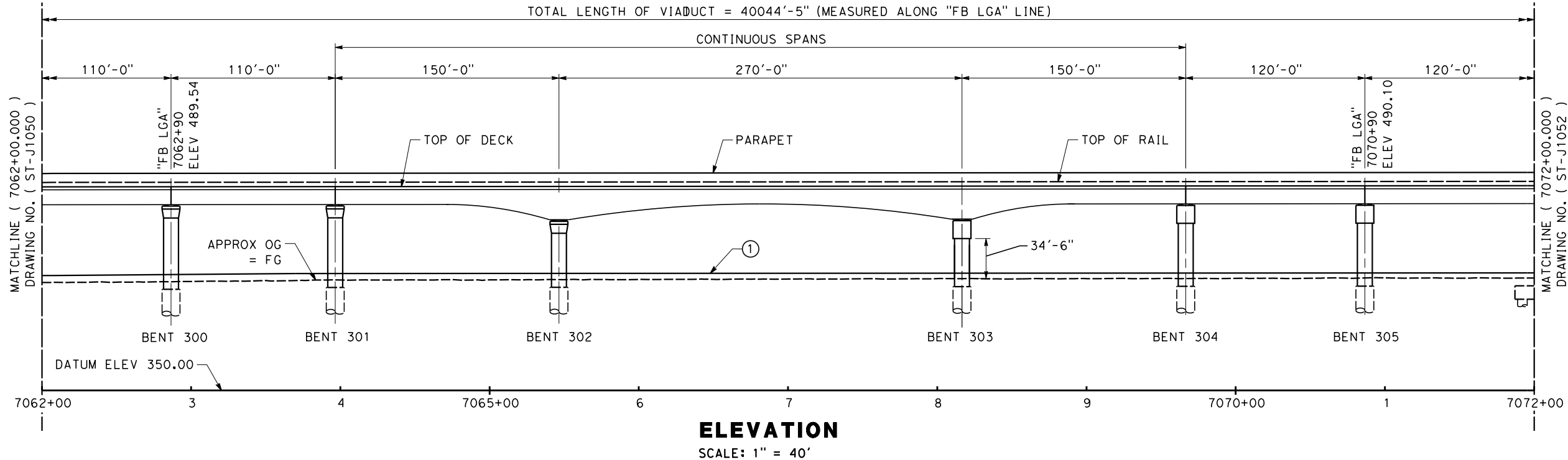
6928+00.00 EVC
ELEV 480.06

+0.070%

7101+04.43
ELEV 492.22

TOP OF RAIL "FB LGA" LINE

NO SCALE



PLAN

SCALE: 1" = 40'

10/27/2016 2:50:32 PM CAHSR.tbl CAHSR.tbl CHSR_PDF_half_black.plt: \\pwworking\tylin\p01\sdulor\dms27052\BFSSA-ST-J1051.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. BERRY

DRAWN BY
K. BERRY

CHECKED BY
S. DULOR

IN CHARGE
S. DULOR

DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



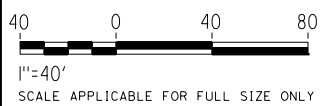
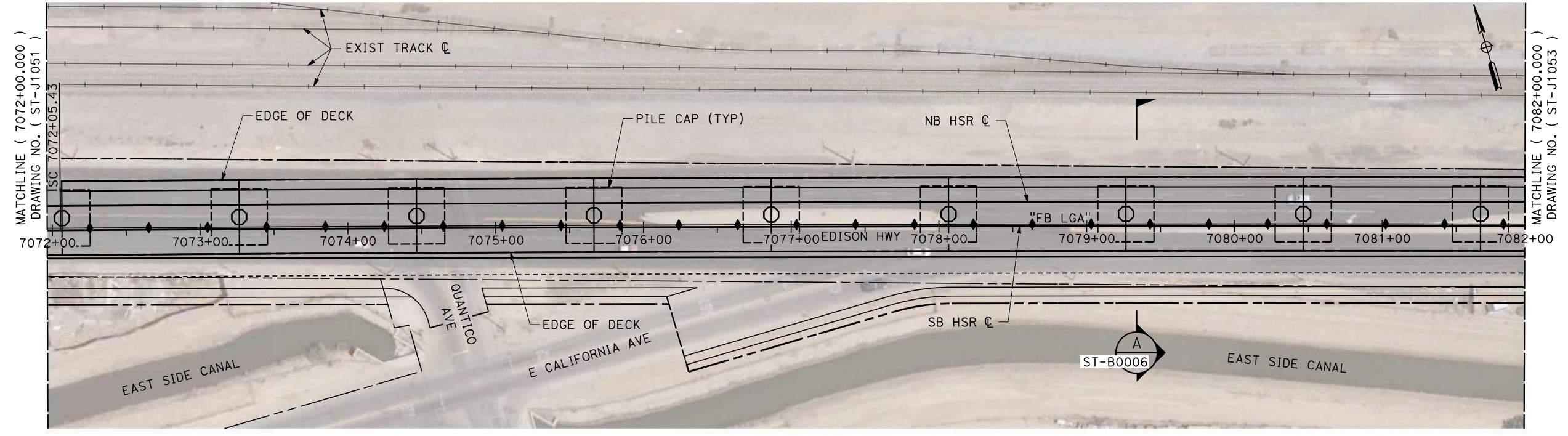
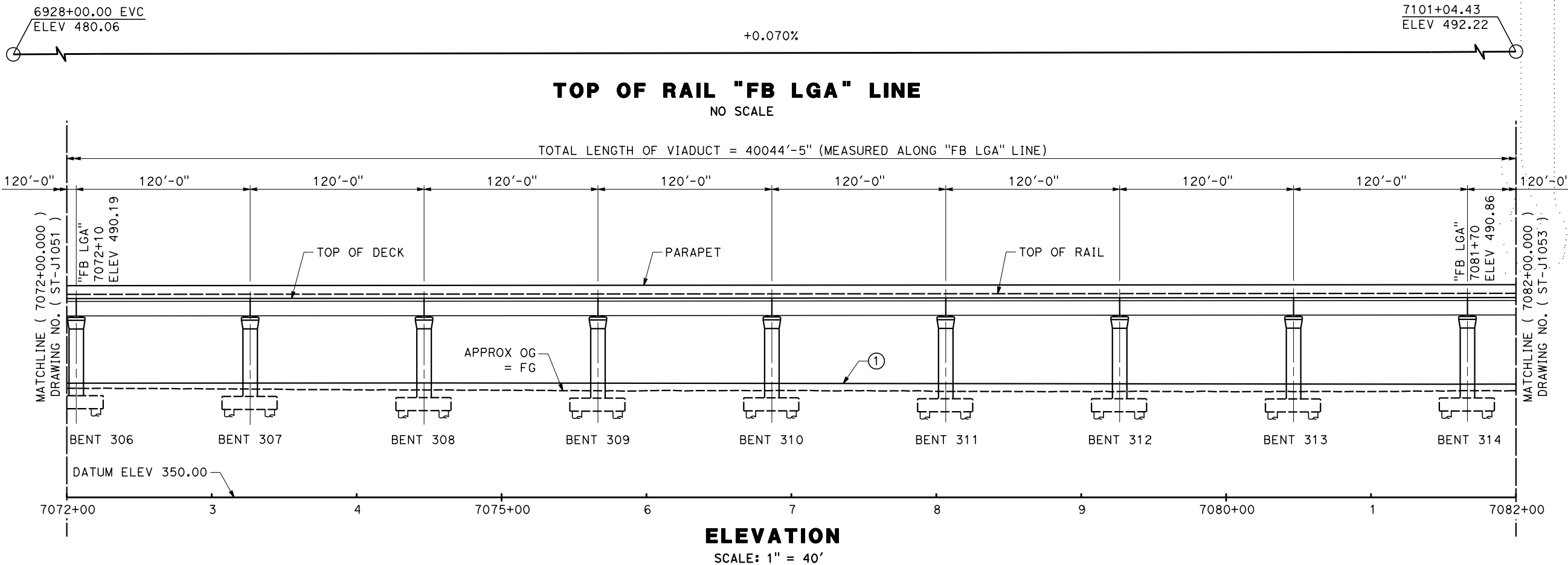
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 7062+00 TO 7072+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44

DRAWING NO.
ST-J1051

SCALE
AS SHOWN

SHEET NO.
119



PLAN
SCALE: 1" = 40'

TYL\KBerry 10/14/2016 3:39:14 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N_BFSS\00_CADD\Sheet_Files\Track_Structure_Sheets\BFSSA-ST-J1052

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. BERRY

DRAWN BY
K. BERRY

CHECKED BY
S. DULOR

IN CHARGE
S. DULOR

DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 7072+00 TO 7082+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44

DRAWING NO.
ST-J1052

SCALE
AS SHOWN

SHEET NO.
120

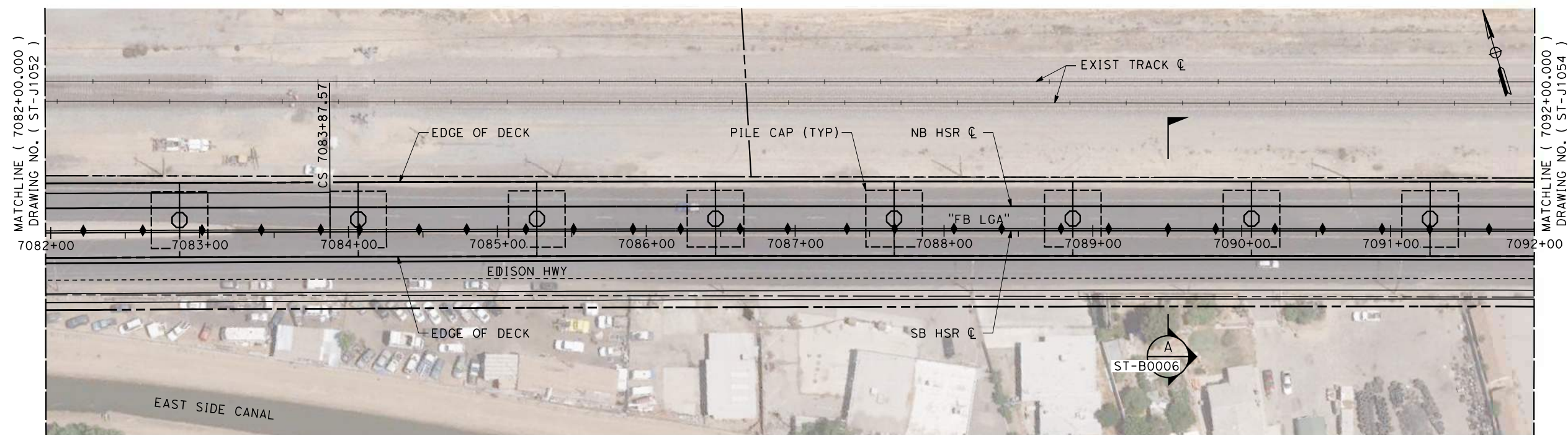
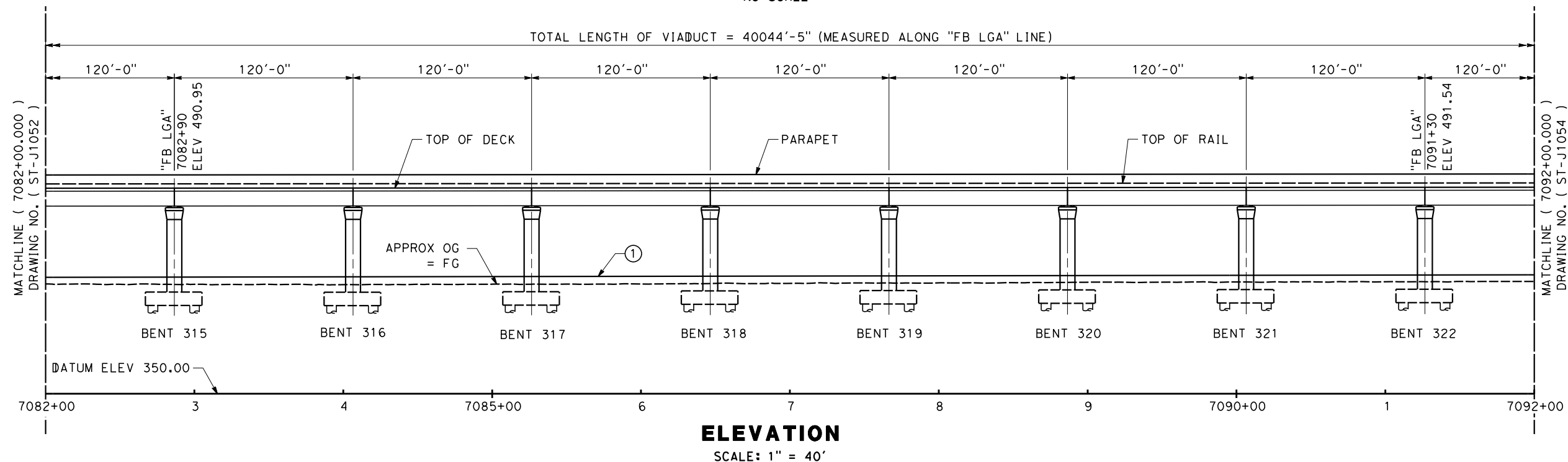
6928+00.00 EVC
ELEV 480.06

7101+04.43
ELEV 492.22

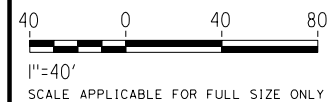
+0.070%

TOP OF RAIL "FB LGA" LINE

NO SCALE



10/24/2016 4:03:57 PM CAHSR-rbl CAHSR-rbl CHSR_PDF_half_black.plt \\c:\pwworking\tylin\p01\sdulor\dms27052\BFSSA-ST-J1053.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. BERRY

DRAWN BY
K. BERRY

CHECKED BY
S. DULOR

IN CHARGE
S. DULOR

DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



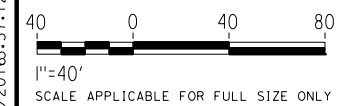
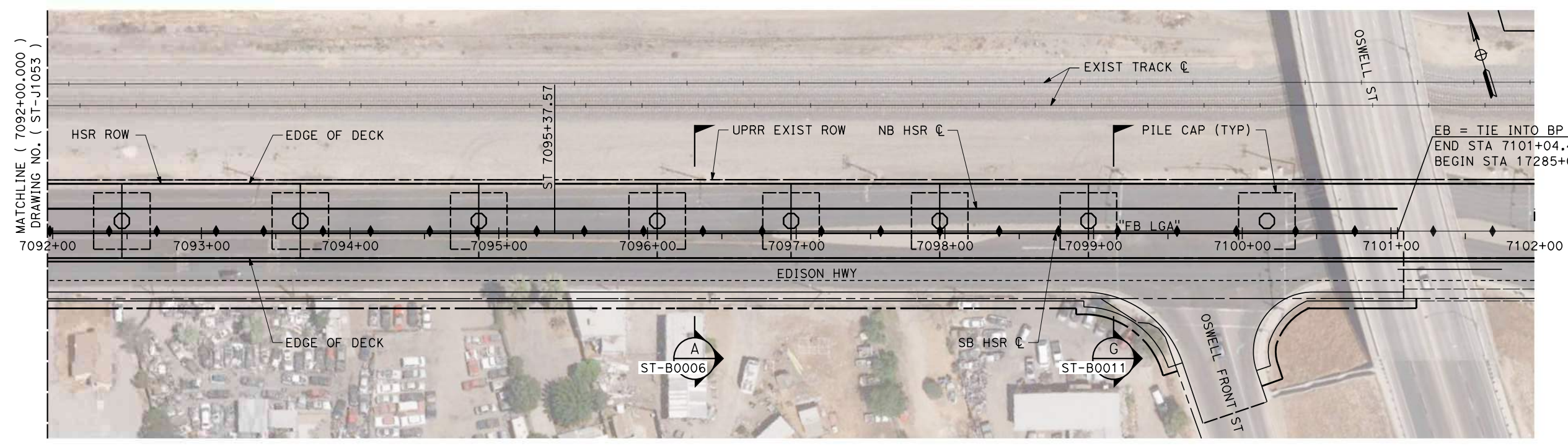
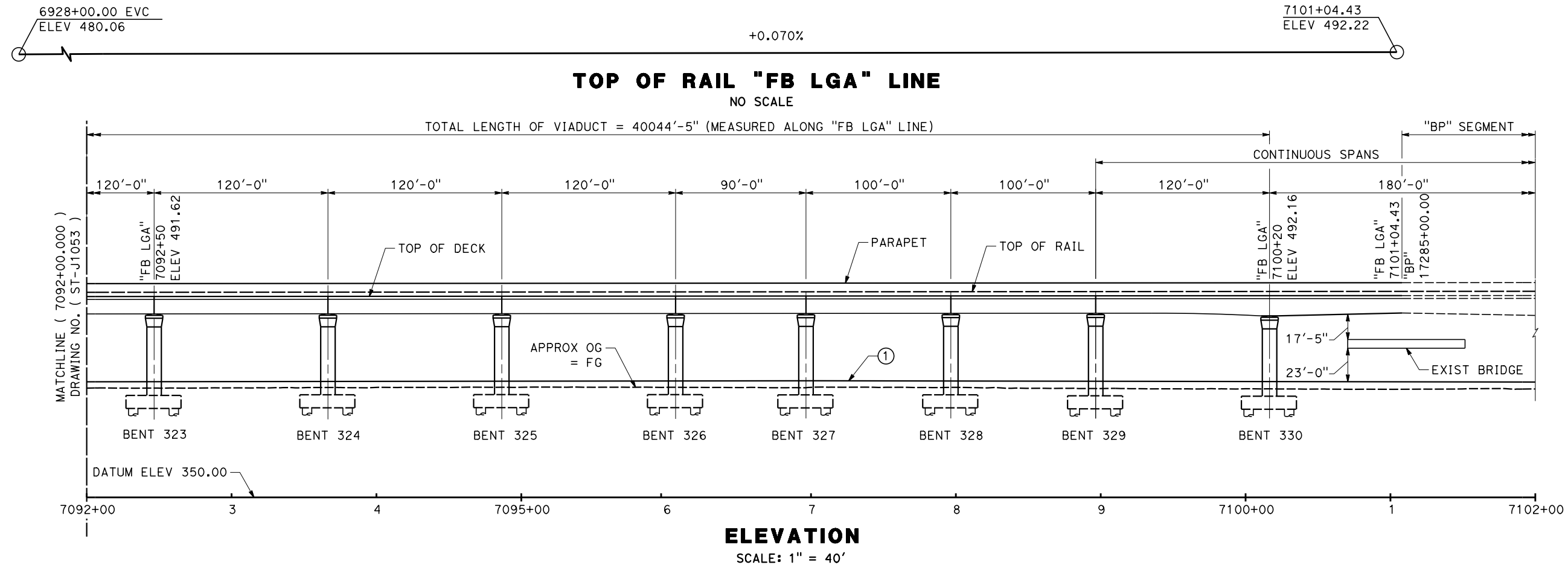
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 7082+00 TO 7092+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44

DRAWING NO.
ST-J1053

SCALE
AS SHOWN

SHEET NO.
121



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. BERRY

DRAWN BY
K. BERRY

CHECKED BY
S. DULOR

IN CHARGE
S. DULOR

DATE
10/28/16

RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 7092+00 TO 7102+00
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44

DRAWING NO.
ST-J1054

SCALE
AS SHOWN

SHEET NO.
122

TYLIN\KBerry 10/14/2016 3:37:12 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N_BFSS\00_CADD\Sheet_Files\Track_Structure_Sheets\BFSSA-ST-J1054

Fresno to Bakersfield

COORDINATION SET
LOCALLY GENERATED ALTERNATIVE (LGA)

STATION PLANS
January 2021



The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

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11/4/2016 3:37:00 PM

SHEET INDEX	
NUMBER	SHEET NAME
01-GENERAL	
G00-00	COVER SHEET
G00-01	INDEX OF DRAWINGS
04-ARCHITECTURAL	
A0001	ARCHITECTURAL ABBREVIATIONS SYMBOLS AND GENERAL NOTES
A1801	SITE CONTEXT ROOF PLAN
A1802	STATION SITE PLAN
A1810	PLAZA AND TRANSIT CENTER KEY PLAN
A1811	CONCOURSE KEY PLAN
A1812	MEZZANINE KEY PLAN
A1813	PLATFORM LEVEL KEY PLAN
A1814	CONCOURSE FLOOR PLAN-MAIN ENTRANCE
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A3801	LONGITUDINAL SECTION
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A6801	ROOM SCHEDULE
A9801	AXONOMETRIC VIEW
A9802	PRESPECTIVE VIEWS
A9803	AERIAL VIEW

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
L. Giaramidaro
DRAWN BY
S. Ahmadzai
CHECKED BY
P. Cowcher
IN CHARGE
G. Silwal
DATE
10/28/16

PEPD RECORD SET
DESIGN
SUBMISSION
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD F STREET STATION
INDEX OF DRAWINGS

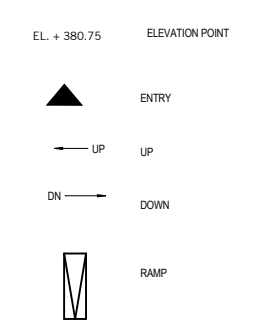
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DRAWING NO. G00-01
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SHEET NO. 124

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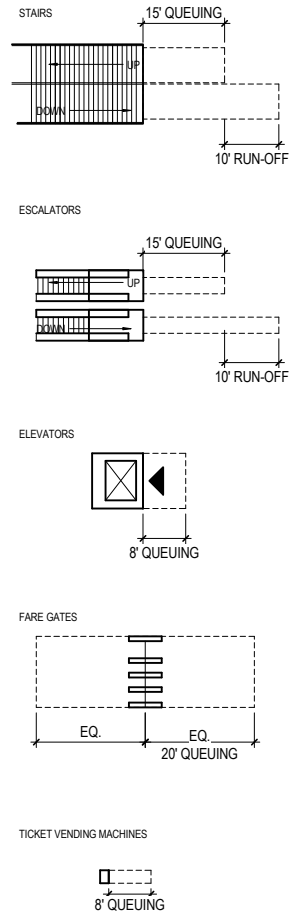
ADA	AMERICANS WITH DISABILITIES ACT
BLDG	BUILDING
BRT	BUS RAPID TRANSIT
⊕	CENTER LINE
H.S.R.	HIGH-SPEED RAIL
N.I.C.	NOT IN CONTRACT
NB	NORTHBOUND
N.O.S.	NON-OCCUPIED SPACE
PED	PEDESTRIAN
SB	SOUTHBOUND
TYP.	TYPICAL

SYMBOLS LEGEND

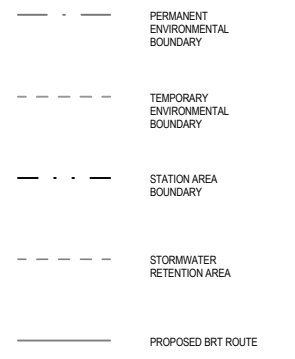
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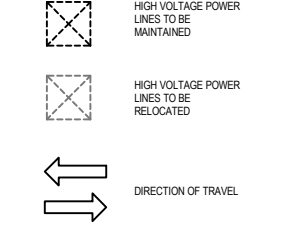
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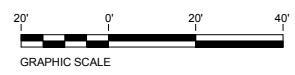
SITE SYMBOLS



CIVIL / ROADWAY SYMBOLS



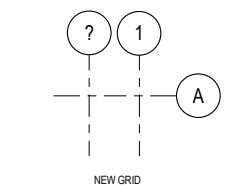
SCALE BAR



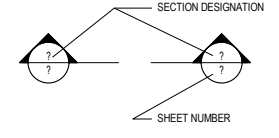
NORTH ARROW



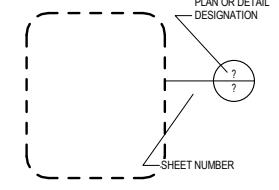
BUILDING COLUMN GRID DESIGNATION



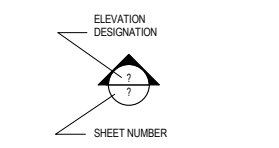
BUILDING SECTION TAG



ENLARGED PLAN TAG



EXTERIOR ELEVATION TAG



GENERAL PROJECT NOTES

- This version of the station area and station design submission is an effort to summarize preliminary conceptual design for the proposed station at F Street and Golden State Avenue in Bakersfield that is informed by:
 - California High-Speed Rail Authority documents
 - Statewide architectural excellence goals
 - System design criteria and technical memoranda
 - Station area development policy
 - Urban design guidelines
 - Kern Council of Governments
 - 2014 Regional Transportation Plan and Sustainable Communities Strategy
 - Metropolitan Bakersfield Transit Center Study
 - Metropolitan Bakersfield Transit System Long-Range Plan
 - City of Bakersfield's
 - General Plan
 - High-Speed Rail station area plan request for qualifications/request for proposals.
- Bakersfield F Street Station platform is situated between points STA 23 +000.39 and STA 37 +00.39.
- All elevations values are taken from sea level.
- The ridership forecast used for the sizing of parking, public spaces, vertical circulation, and functional spaces is for a projected ridership of 9,200 passengers in the year 2035. This value is taken from the Station Area Parking Guidance Technical Memorandum (July 2011), Table A-9: Total Average Weekday Station Boardings - Full System Stations 2035 and served as the base for the trip generation included in the Transportation Analysis Technical Report (TATR).
- Preliminary station design is in accordance with Technical Memoranda (TM) available during development of the Fresno-Bakersfield section supplemental EIR/EIS including TM 2.2.2 R1 Minimum Station Program Design Guidelines, TM 2.2.3 R0 Station Site Design Guidelines, and TM 2.2.4 R1 Station Platform Geometric Design.
 - Platform design and sizing per Technical Memorandum 2.2 Minimum Station Program Design Guidelines and NFPA 130. Dimensions of platform sizing to be reconfirmed during detailed design per CAHSR documents.
 - Vertical circulation design and sizing per Technical Memorandum 2.2 Minimum Station Program Design Guidelines and NFPA 130.
- Applicable codes, rules, standards and guidelines may include but are not limited to:
 - ADA AND ADAAG: ADA guidelines for buildings and facilities
 - NFPA 70: National Electrical Code
 - NFPA 101: National Fire Protection Association's Life Safety Code, 2009 Edition.
 - NFPA 130: National Fire Protection Association Standard for Fixed Guideway Transit and Passenger Rail Systems, 2010 Edition.
 - IBC: International Building Code, latest adopted edition.
 - ANSI 117.1 - American National Standards Institute Standard for Accessible Design for Persons with Disabilities
 - ASME A17.1 - American Society of Mechanical Engineers Safety Code for Elevators and Escalators
 - California Code of Regulations (CCR), title 24, California Building Standards Code
 - California Code of Regulations (CCR), title 8, California Building Standards Code - Industrial Relations, or Labor Passenger Rail Systems, 2010 edition.
 - IBC: International Building Code, latest adopted edition.
 - California Division of The State Architect 2009 California Access Compliance Reference Manual
 - CPUC: California Public Utilities Commission
 - SCRRA Engineering Standards
 - Peninsula Corridor Joint Powers Board (PCJPB) Design Standards
 - 49 CFR 200 Series: FRA Railroad Safety Regulations
 - California Public Utility Commission (CPUC) General Orders
 - California Disabled Accessibility Guidebook (CALDAG)
 - Local energy codes
 - Local street improvements manuals
 - Local traffic signal design guides
 - Local building, planning and zoning codes codes
 - Other city and county ordinances and design criteria
 - American Association of State Highway and Transportation Officials (AASHTO)
 - American Railway Engineering and Maintenance-of-Way Association (AREMA)
 - Crime Prevention Through Environmental Design (CPTED)
 - International Building Code (IBC)
 - Uniform Building Code(UBC)
 - California High-Speed Train Project HST Passenger Station Site Design Guidelines, R0 California High Speed Rail Authority, page 6
 - TSI: Technical Specifications for Interoperability for the Trans-European Transport Network.
 - CHSTP Adopted HST Station Development Policy (2008)

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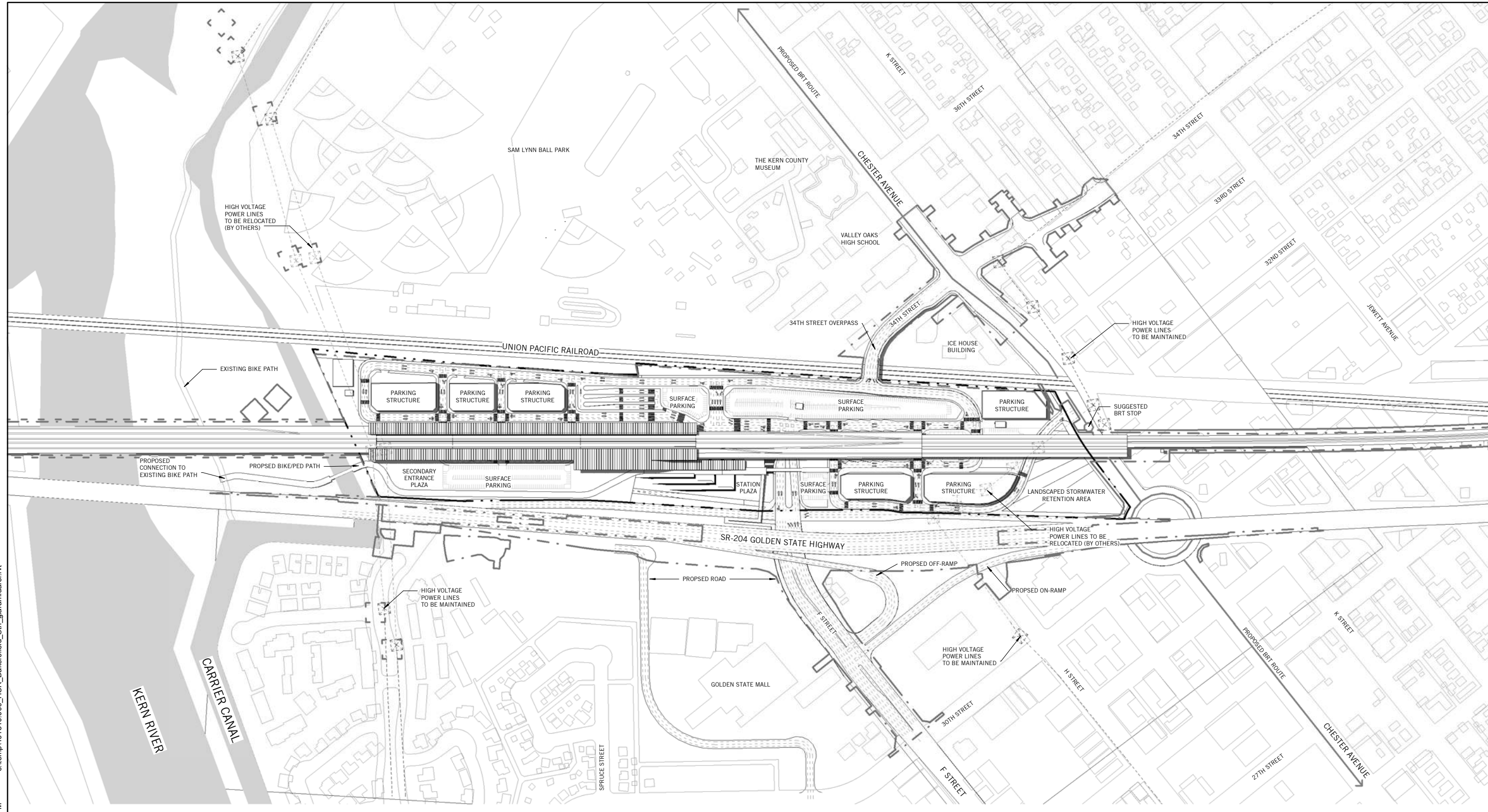
DESIGNED BY
L. Giaramidaro
DRAWN BY
S. Ahmadzai
CHECKED BY
P. Cowcher
IN CHARGE
G. Silwal
DATE
10/28/16

PEPD RECORD SET
DESIGN
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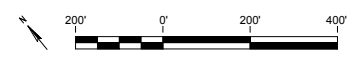
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD F STREET STATION
ARCHITECTURAL ABBREVIATIONS SYMBOLS AND GENERAL NOTES

CONTRACT NO.	HSR13-44
DRAWING NO.	A0001
SCALE	N/A
SHEET NO.	125



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 11/4/2016 3:34:22 PM

1 SITE CONTEXT ROOF PLAN
 1" = 200'-0"



REV	DATE	BY	CHK	APP	DESCRIPTION

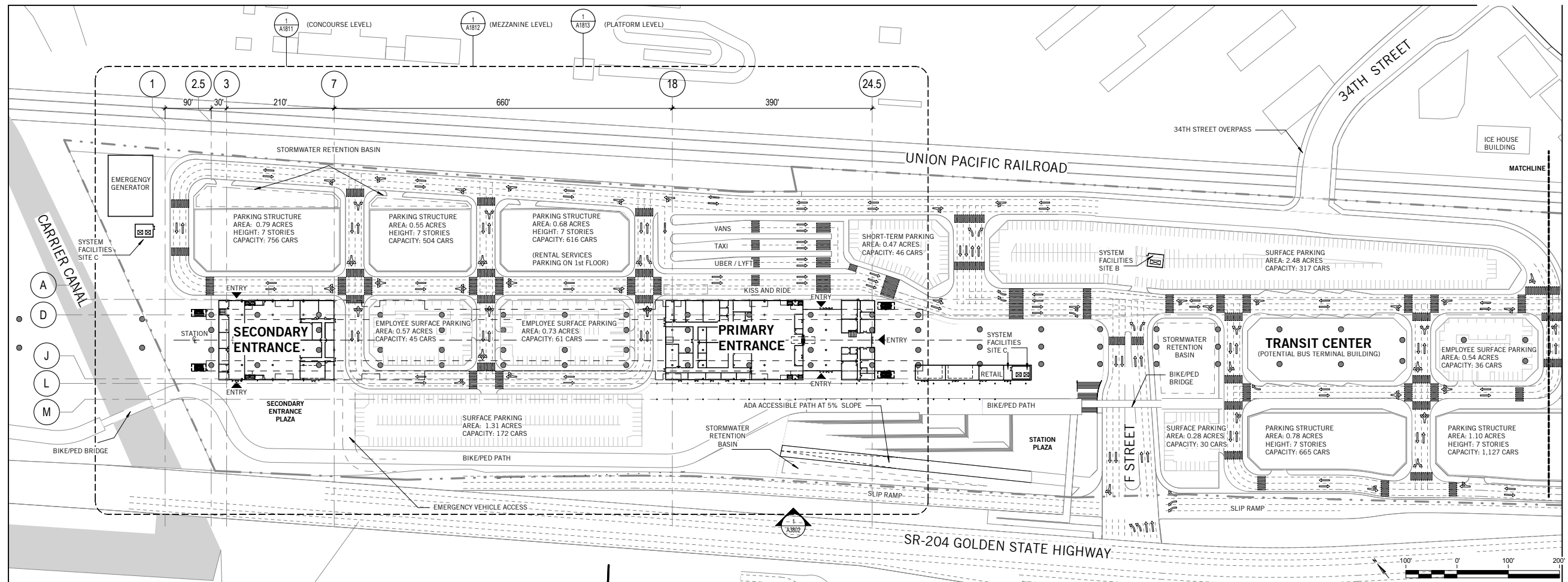
DESIGNED BY
L. Giaramidaro
 DRAWN BY
S. Ahmadzai
 CHECKED BY
P. Cowcher
 IN CHARGE
G. Silwal
 DATE
10/28/16

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 BAKERSFIELD F STREET STATION
 SITE CONTEXT ROOF PLAN

CONTRACT NO.
HSR13-44
 DRAWING NO.
A1801
 SCALE
1" = 200'-0"
 SHEET NO.
126



1 STATION SITE PLAN
1" = 100'-0"

SITE AREA & PARKING DATA

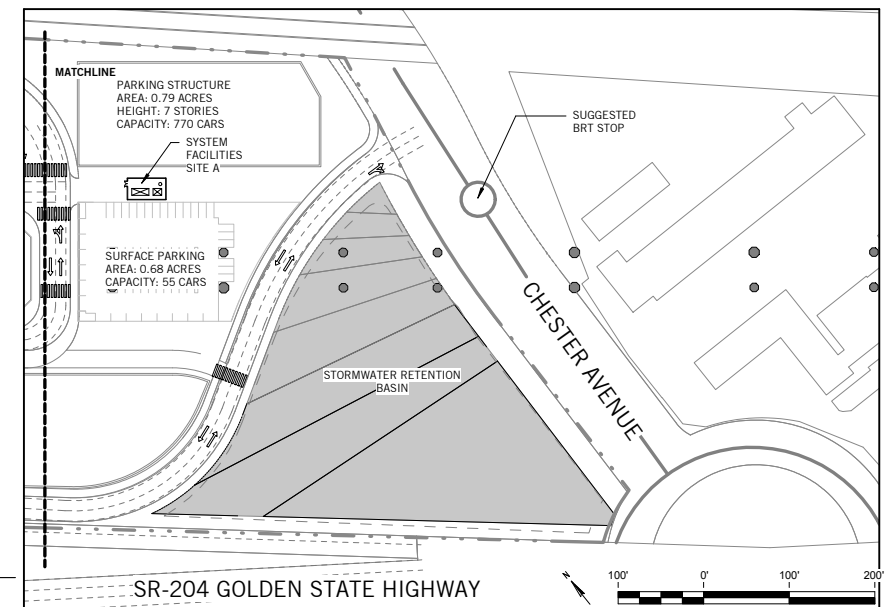
TOTAL STATION AREA: 46.25 ACRES

TOTAL PARKING AREA: 11.55 ACRES
TOTAL PARKING CAPACITY: 5,200 SPACES

TOTAL SURFACE PARKING AREA: 6.86 ACRES
TOTAL SURFACE PARKING CAPACITY: 762 SPACES

TOTAL PARKING STRUCTURE AREA: 4.69 ACRES
TOTAL PARKING STRUCTURE CAPACITY: 4,438 SPACES

*ALL PARKING STRUCTURES 7 STORIES WITH ONE LEVEL UNDERGROUND AND ONE LEVEL OF PARKING ON THE ROOF LEVEL



2 STATION SITE PLAN
1" = 100'-0"

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REV	DATE	BY	CHK	APP	DESCRIPTION

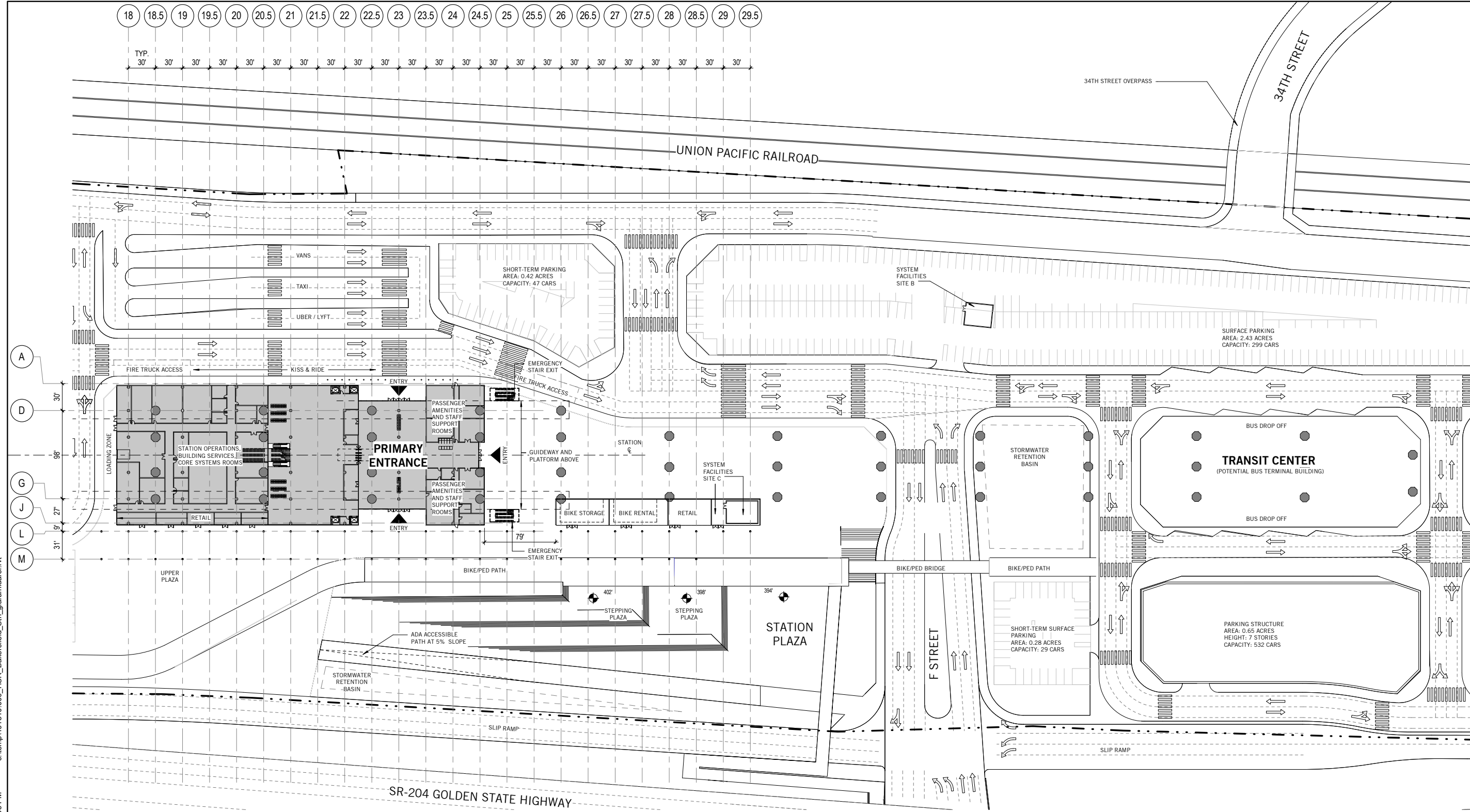
DESIGNED BY
L. Giaramidaro
DRAWN BY
S. Ahmadzai
CHECKED BY
P. Cowcher
IN CHARGE
G. Silwal
DATE
10/28/16

PEPD RECORD SET
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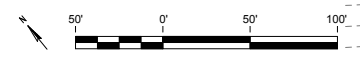


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD F STREET STATION
STATION SITE PLAN

CONTRACT NO. HSR13-44
DRAWING NO. A1802
SCALE 1" = 100'-0"
SHEET NO. 127



1 PLAZA + TRANSIT CENTER KEY PLAN
1" = 50'-0"



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REV	DATE	BY	CHK	APP	DESCRIPTION

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L. Giaramidaro
DRAWN BY
S. Ahmadzai
CHECKED BY
G. Silwal
DATE
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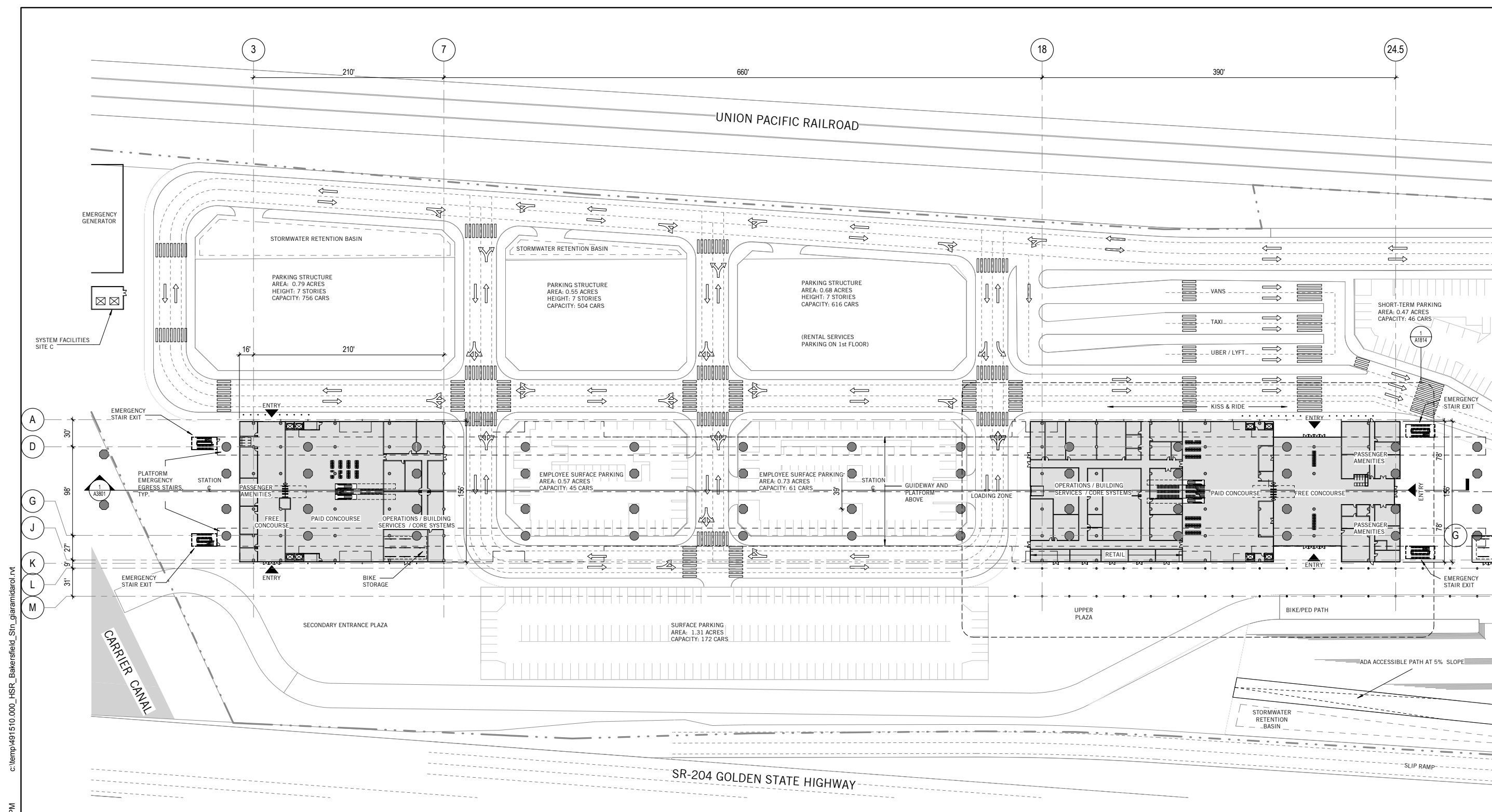
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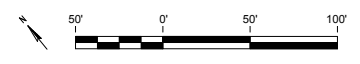


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD F STREET STATION
PLAZA AND TRANSIT CENTER KEY PLAN

CONTRACT NO.
HSR13-44
DRAWING NO.
A1810
SCALE
1" = 50'-0"
SHEET NO.
128



1 CONCOURSE KEY PLAN
1" = 50'-0"



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 11/4/2016 3:34:52 PM

REV	DATE	BY	CHK	APP	DESCRIPTION

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L. Giaramidaro
 DRAWN BY
S. Ahmadzai
 CHECKED BY
P. Cowcher
 IN CHARGE
G. Silwal
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**PEPD RECORD SET
DESIGN
SUBMISSION**

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CONSTRUCTION**

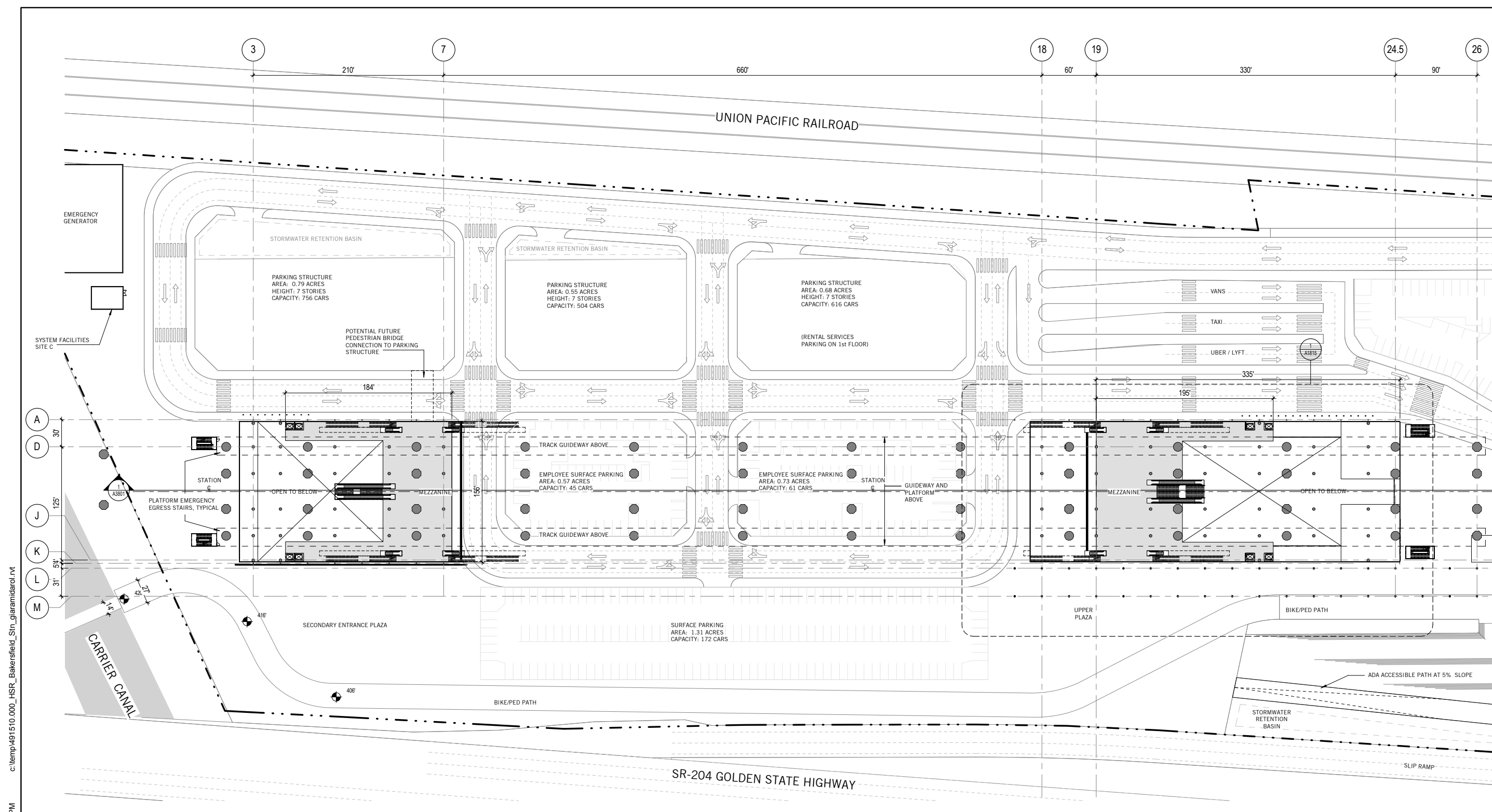


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

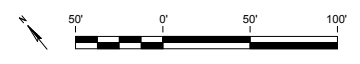
 LOCALLY GENERATED ALTERNATIVE

 BAKERSFIELD F STREET STATION
CONCOURSE KEY PLAN

CONTRACT NO.
HSR13-44
 DRAWING NO.
A1811
 SCALE
1" = 50'-0"
 SHEET NO.
129



1 MEZZANINE KEY PLAN
1" = 50'-0"



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 11/4/2016 3:34:59 PM

REV	DATE	BY	CHK	APP	DESCRIPTION

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L. Giaramidaro
 DRAWN BY
S. Ahmadzai
 CHECKED BY
P. Cowcher
 IN CHARGE
G. Silwal
 DATE
10/28/16

**PEPD RECORD SET
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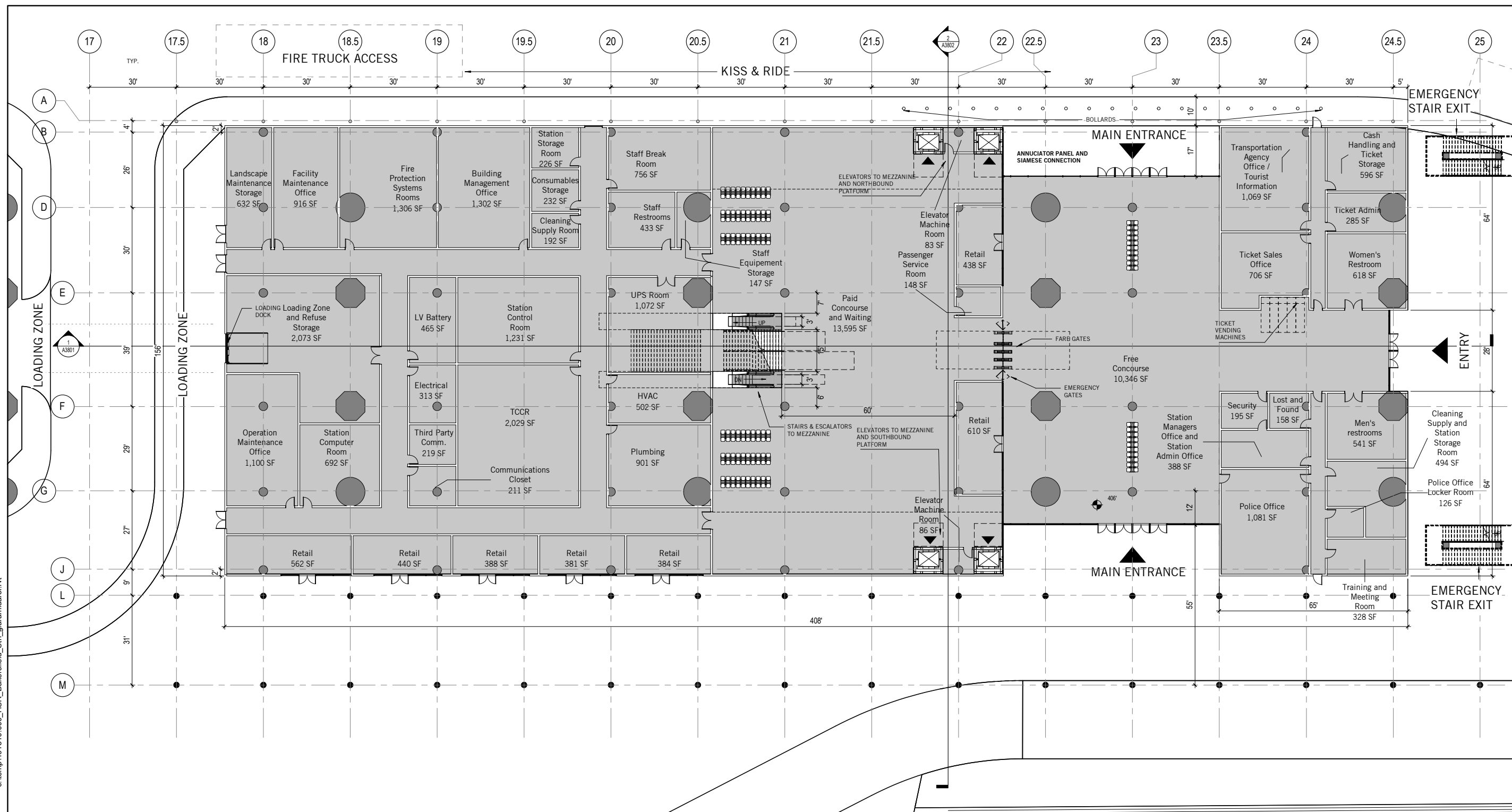


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

 LOCALLY GENERATED ALTERNATIVE

 BAKERSFIELD F STREET STATION
MEZZANINE KEY PLAN

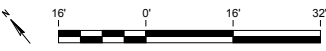
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HSR13-44
 DRAWING NO.
A1812
 SCALE
1" = 50'-0"
 SHEET NO.
130



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1 ENLARGED CONCOURSE FLOOR PLAN - MAIN ENTRANCE
1/16" = 1'-0"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
L. Giaramidaro
DRAWN BY
S. Ahmadzai
CHECKED BY
P. Cowcher
IN CHARGE
G. Silwal
DATE
10/28/16

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CONSTRUCTION**

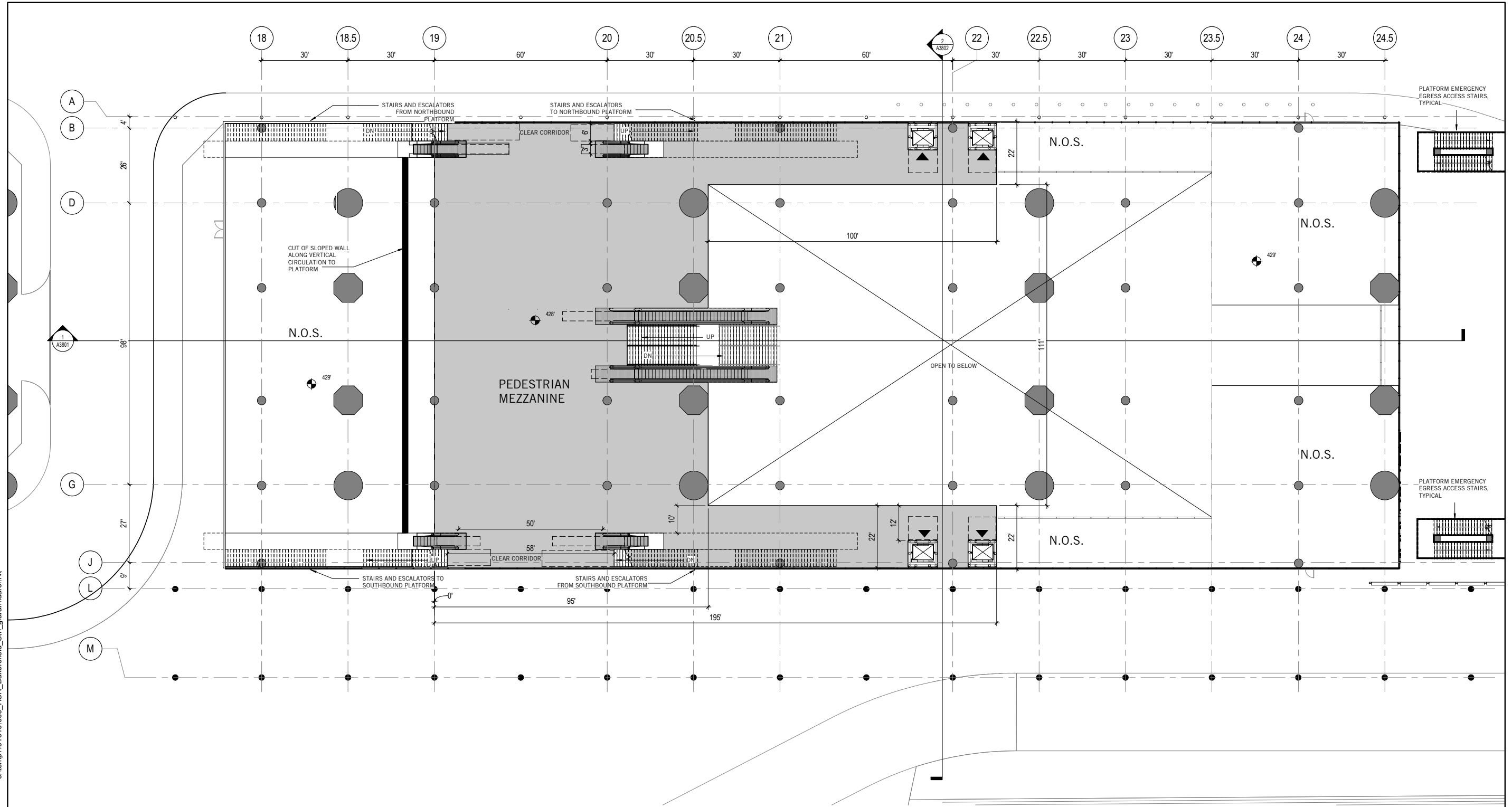


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD F STREET STATION
CONCOURSE FLOOR PLAN-MAIN ENTRANCE

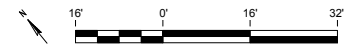
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HSR13-44
DRAWING NO.
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SCALE
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SHEET NO.
132

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1 ENLARGED MEZZANINE FLOOR PLAN -
MAIN ENTRANCE
1/16" = 1'-0"



REV	DATE	BY	CHK	APP	DESCRIPTION

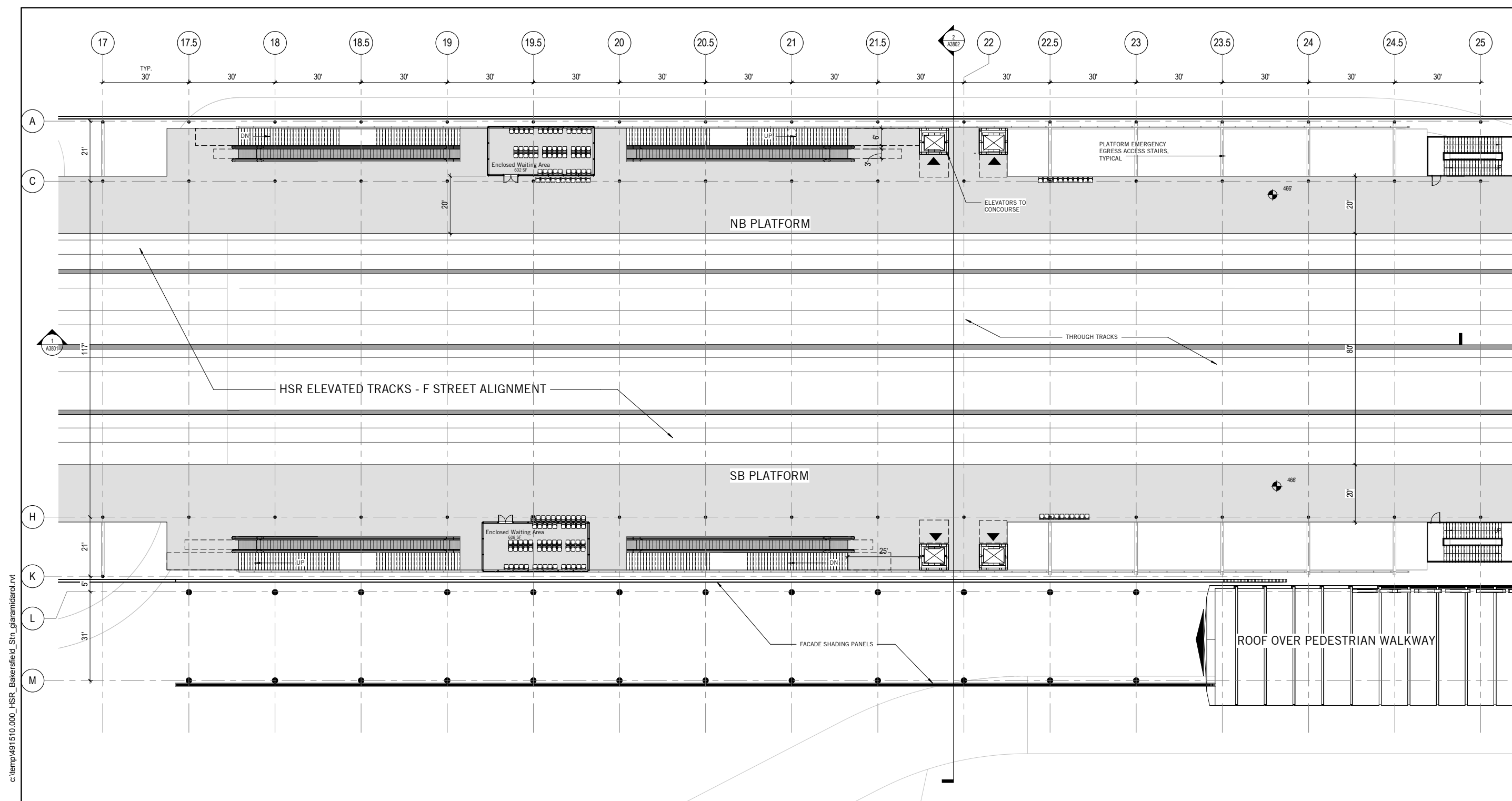
DESIGNED BY
L. Giaramidaro
DRAWN BY
S. Ahmadzai
CHECKED BY
P. Cowcher
IN CHARGE
G. Silwal
DATE
10/28/16

PEPD RECORD SET
DESIGN
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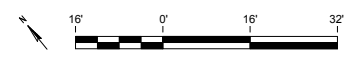
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD F STREET STATION
MEZZANINE FLOOR PLAN-MAIN ENTRANCE

CONTRACT NO.
HSR13-44
DRAWING NO.
A1815
SCALE
1/16" = 1'-0"
SHEET NO.
133



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1 ENLARGED PLATFORM - MAIN ENTRANCE
 1/16" = 1'-0"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
 L. Giaramidaro
 DRAWN BY
 S. Ahmadzai
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 IN CHARGE
 G. Silwal
 DATE
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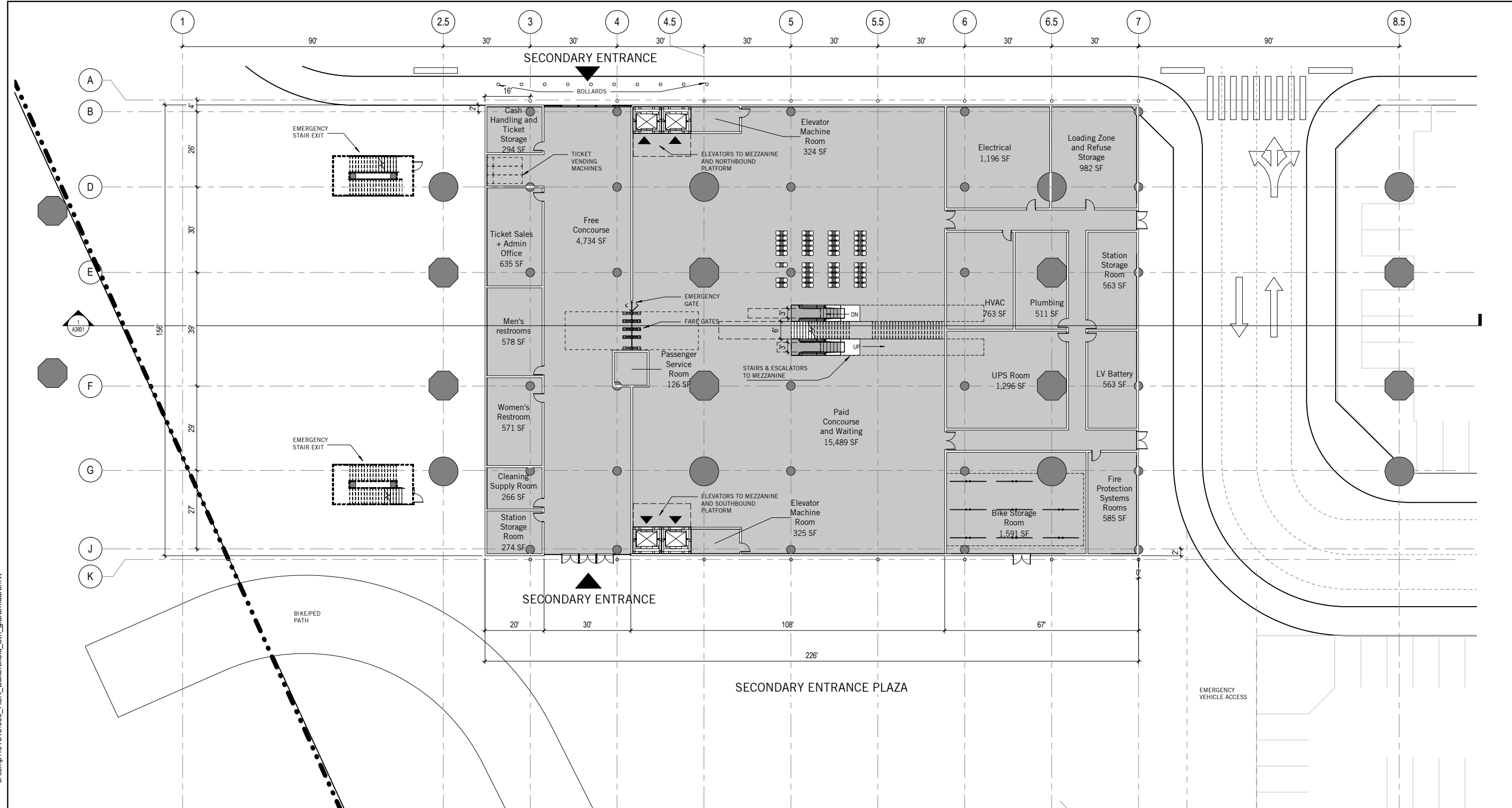


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 BAKERSFIELD F STREET STATION
PLATFORM FLOOR PLAN-MAIN ENTRANCE

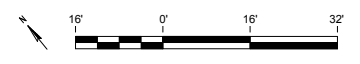
CONTRACT NO.
 HSR13-44
 DRAWING NO.
 A1816
 SCALE
 1/16" = 1'-0"
 SHEET NO.
 134

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1 ENLARGED CONCOURSE FLOOR PLAN - SECONDARY ENTRANCE
1/16" = 1'-0"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
L. Giaramidaro
DRAWN BY
S. Ahmadzai
CHECKED BY
P. Cowcher
IN CHARGE
G. Sitwal
DATE
10/28/16

PEPD RECORD SET
DESIGN
SUBMISSION
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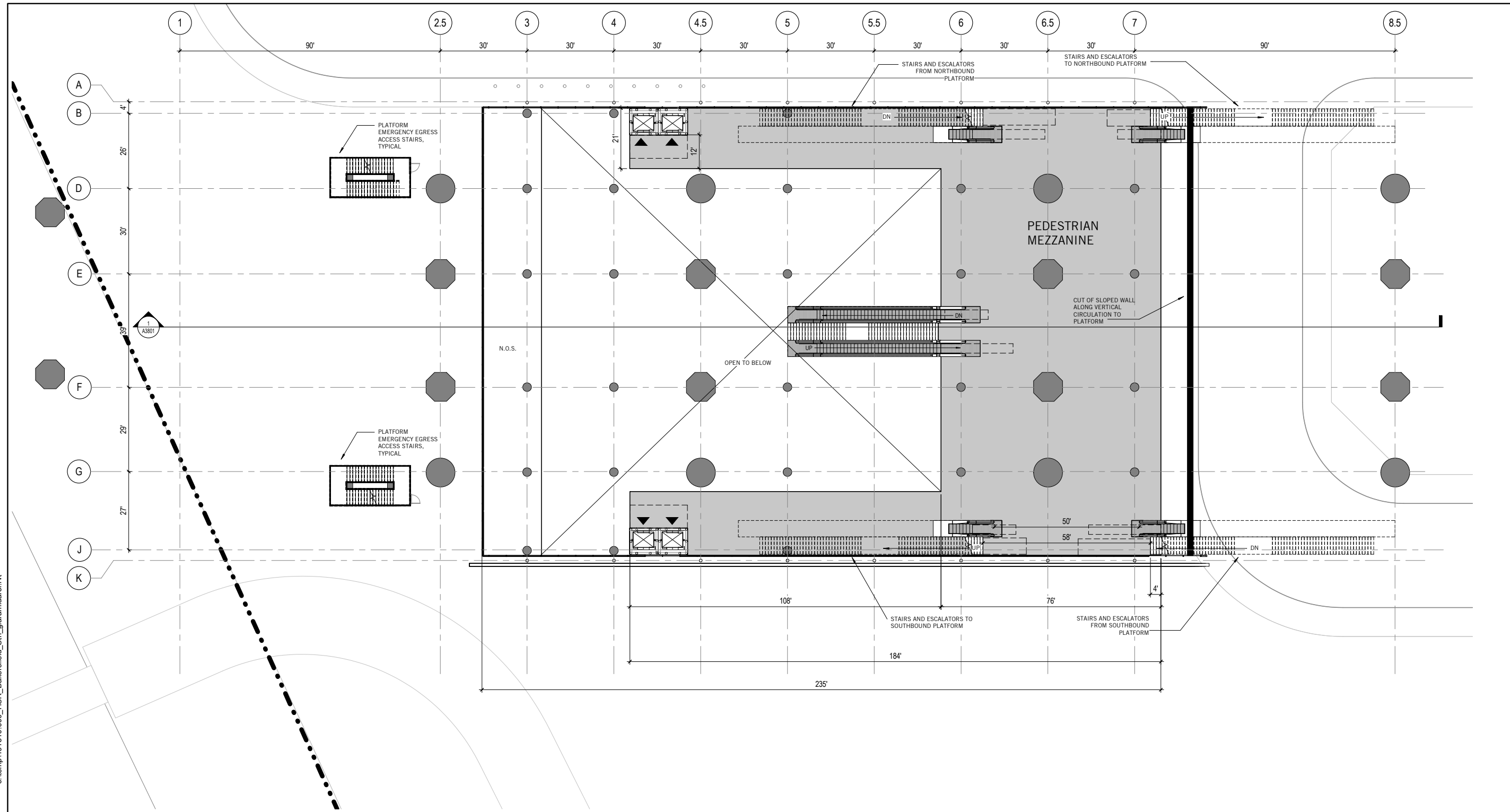


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD F STREET STATION
CONCOURSE FLOOR PLAN-SECONDARY ENTRANCE

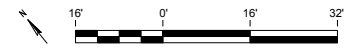
CONTRACT NO.
HSR13-44
DRAWING NO.
A1817
SCALE
1/16" = 1'-0"
SHEET NO.
135

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11/4/2016 3:35:45 PM



1 ENLARGED MEZZANINE FLOOR PLAN -
SECONDARY ENTRANCE
1/16" = 1'-0"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
L. Giaramidaro
DRAWN BY
S. Ahmadzai
CHECKED BY
P. Cowcher
IN CHARGE
G. Silwal
DATE
10/28/16

PEPD RECORD SET
DESIGN
SUBMISSION

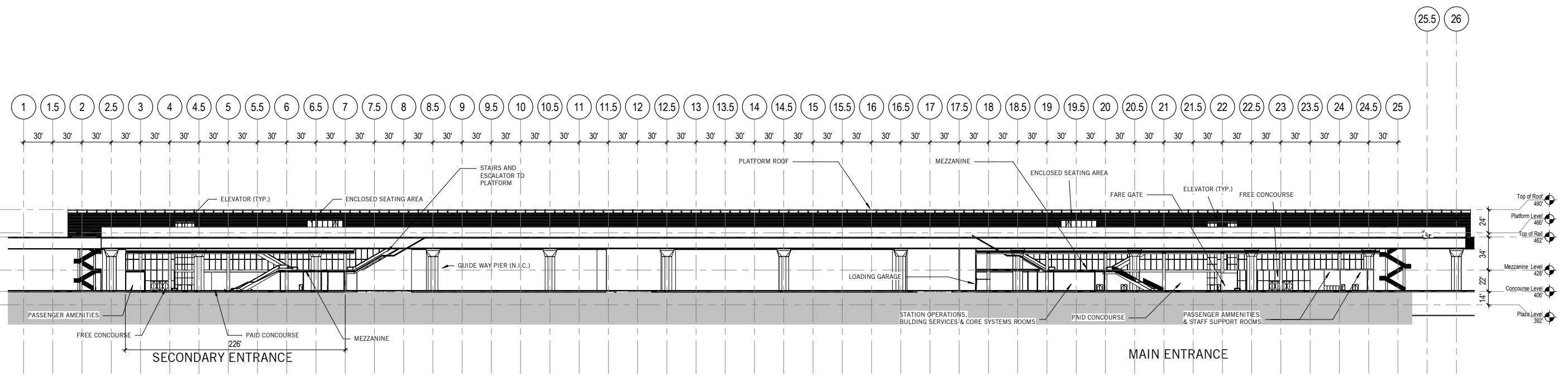
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD F STREET STATION
MEZZANINE FLOOR PLAN-SECONDARY ENTRANCE

CONTRACT NO.
HSR13-44
DRAWING NO.
A1818
SCALE
1/16" = 1'-0"
SHEET NO.
136

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11/4/2016 3:35:47 PM



1 LONGITUDINAL SECTION
1" = 50'-0"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
L. Giaramidaro
DRAWN BY
S. Ahmadzai
CHECKED BY
P. Cowcher
IN CHARGE
G. Sitwal
DATE
10/28/16

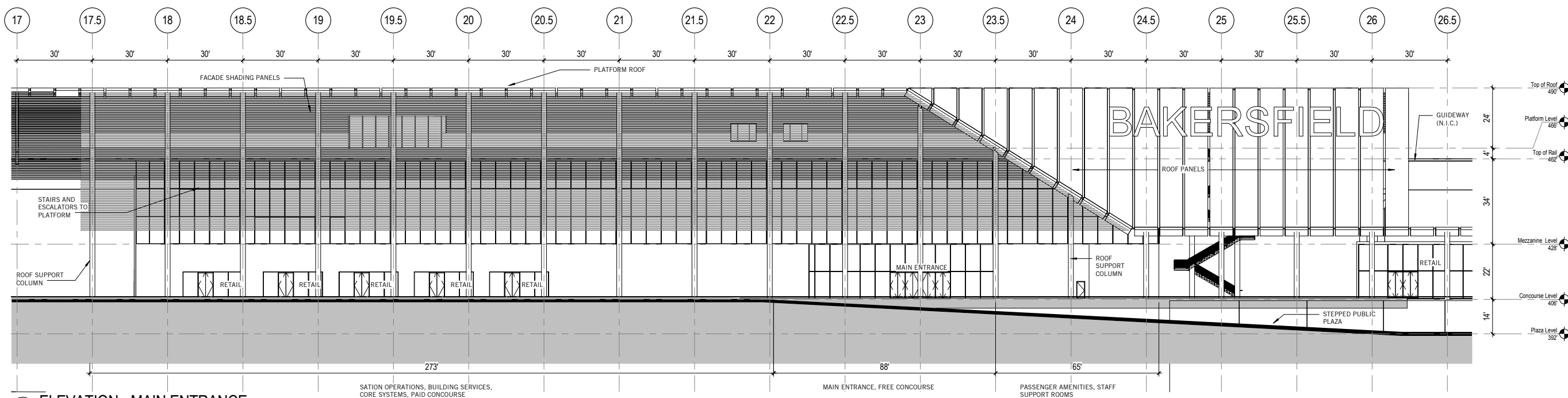
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DESIGN
SUBMISSION

NOT FOR
CONSTRUCTION

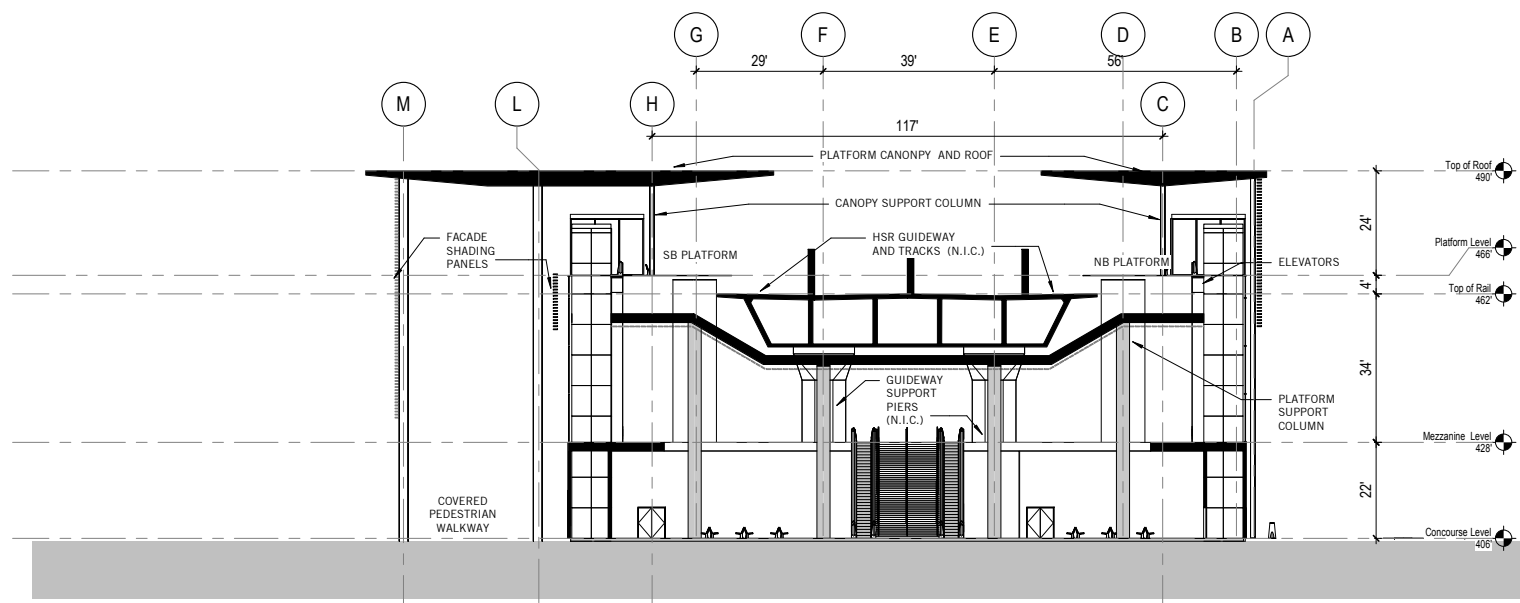


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD F STREET STATION
LONGITUDINAL SECTION

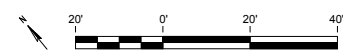
CONTRACT NO.
HSR13-44
DRAWING NO.
A3801
SCALE
1" = 50'-0"
SHEET NO.
137



1 ELEVATION - MAIN ENTRANCE
1" = 20'-0"



2 TRANSVERSE SECTION - MAIN ENTRANCE
1" = 20'-0"



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
L. Giaramidaro
DRAWN BY
S. Ahmadzai
CHECKED BY
P. Cowcher
IN CHARGE
G. Silwal
DATE
10/28/16

PEPD RECORD SET
DESIGN
SUBMISSION

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CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD F STREET STATION
BUILDING SECTION & ELEVATION

CONTRACT NO.	HSR13-44
DRAWING NO.	A3802
SCALE	1" = 20'-0"
SHEET NO.	138

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ROOM SCHEDULE

Room	Area	Required Area	Level	Reference
------	------	---------------	-------	-----------

01-Detached				
Retail	2,631 SF	n/a	-1-Plaza Level	Actual dimension will be determined during station design. Value is approximate
Retail	2,914 SF	n/a	-1-Plaza Level	Actual dimension will be determined during station design. Value is approximate
Retail	2,137 SF	n/a	-1-Plaza Level	Actual dimension will be determined during station design. Value is approximate
Retail	2,404 SF	n/a	-1-Plaza Level	Actual dimension will be determined during station design. Value is approximate
Retail	4,000 SF	n/a	-1-Plaza Level	Actual dimension will be determined during station design. Value is approximate
Retail Storage	1,669 SF	n/a	-1-Plaza Level	Actual dimension will be determined during station design. Value is approximate
Retail Storage	1,849 SF	n/a	-1-Plaza Level	Actual dimension will be determined during station design. Value is approximate
Retail Storage	1,356 SF	n/a	-1-Plaza Level	Actual dimension will be determined during station design. Value is approximate
Retail Storage	1,525 SF	n/a	-1-Plaza Level	Actual dimension will be determined during station design. Value is approximate
Retail Storage	2,483 SF	n/a	-1-Plaza Level	Actual dimension will be determined during station design. Value is approximate
Bike Storage Room	1,647 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Bike Storage Room	1,862 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Emergency Generator	10,284 SF	10000	Concourse Level	3.6.6.2
Retail	1,357 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
02-Main entrance				
Building Management Office	1,302 SF	1,200	Concourse Level	3.6.6.3 Specific to Building Design
Cash Handling and Ticket Storage	596 SF	260	Concourse Level	3.6.2.4
Cleaning Supply and Station Storage Room	494 SF	150	Concourse Level	3.6.4.3
Cleaning Supply Room	192 SF	80	Concourse Level	3.6.4.2
Communications Closet	211 SF	n/a	Concourse Level	3.6.7.1 Coordinate with Communications and Operations Requirements
Consumables Storage	232 SF	60	Concourse Level	3.6.4.5
Electrical	313 SF		Concourse Level	Actual dimension will be determined during station design. Value is approximate
Elevator Machine Room	83 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Elevator Machine Room	86 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Facility Maintenance Office	916 SF	330	Concourse Level	3.6.3.10
Fire Protection Systems Rooms	1,306 SF	n/a	Concourse Level	3.6.6.3 Actual dimension will be determined during station design. Value is approximate
Free Concourse	10,346 SF	13,405	Concourse Level	Table 14-3*
HVAC	502 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Landscape Maintenance Storage	632 SF	100	Concourse Level	3.6.4.3
Loading Zone and Refuse Storage	2,073 SF	2,000	Concourse Level	3.6.6.4*
Lost and Found	158 SF	80	Concourse Level	3.6.2.5
LV Battery	465 SF	200	Concourse Level	3.6.6.2
Men's restrooms	541 SF	n/a	Concourse Level	Based on California Building Code
Operation Maintenance Office	1,100 SF	1,100	Concourse Level	3.6.3.10
Paid Concourse and Waiting	13,595 SF	11,222	Concourse Level	Table 14-3*
Passenger Service Room	148 SF	100	Concourse Level	3.8.1.2
Plumbing	901 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Police Office	1,081 SF	500	Concourse Level	3.6.2.6. Suggested to be larger
Police Office Locker Room	126 SF	80	Concourse Level	3.6.4.2
Retail	562 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Retail	440 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Retail	388 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Retail	381 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Retail	384 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Retail	610 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Retail	438 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Security	195 SF	160	Concourse Level	3.6.3.9
Staff Break Room	756 SF	200	Concourse Level	3.6.3.12
Staff Equipment Storage	147 SF	60	Concourse Level	3.6.4.5
Staff Restrooms	433 SF	n/a	Concourse Level	3.6.3.14 Based on California Building Code
Station Computer Room	692 SF	500	Concourse Level	3.6.3.6
Station Control Room	1,231 SF	1,100	Concourse Level	3.6.3.5
Station Managers Office and Station Admin Office	388 SF	270	Concourse Level	3.6.3.3
Station Storage Room	226 SF	150	Concourse Level	3.6.4.3
TCCR	2,029 SF	1,915	Concourse Level	3.6.7.1 Coordinate with Communications and Operations Requirements
Third Party Comm.	219 SF	130	Concourse Level	3.6.7.1 Coordinate with Communications and Operations Requirements
Ticket Admin	285 SF	160	Concourse Level	3.5.3.7
Ticket Sales Office	706 SF	375	Concourse Level	Based on Population
Training and Meeting Room	328 SF	200	Concourse Level	3.6.3.4
Transportation Agency Office / Tourist Information	1,069 SF	n/a	Concourse Level	Suggested
UPS Room	1,072 SF	900	Concourse Level	3.6.6.2
Women's Restroom	618 SF	n/a	Concourse Level	3.6.3.14 Based on California Building Code
Paid Concourse and Waiting	17,252 SF	11,222	Mezzanine Level	Table 14-3*

ROOM SCHEDULE

Room	Area	Required Area	Level	Reference
------	------	---------------	-------	-----------

03-Secondary entrance				
Bike Storage Room	1,591 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Cash Handling and Ticket Storage	294 SF	260	Concourse Level	3.6.2.4
Cleaning Supply Room	266 SF	80	Concourse Level	3.6.4.2
Electrical	1,196 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Elevator Machine Room	324 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Elevator Machine Room	325 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Fire Protection Systems Rooms	585 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Free Concourse	4,734 SF	13,405	Concourse Level	Table 14-3*
HVAC	763 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Loading Zone and Refuse Storage	982 SF	n/a	Concourse Level	3.6.6.4*
LV Battery	563 SF	200	Concourse Level	3.6.6.2
Men's restrooms	578 SF	n/a	Concourse Level	Based on California Building Code
Paid Concourse and Waiting	15,489 SF	11,222	Concourse Level	Table 14-3*
Passenger Service Room	126 SF	100	Concourse Level	3.8.1.2
Plumbing	511 SF	n/a	Concourse Level	Actual dimension will be determined during station design. Value is approximate
Station Storage Room	563 SF	150	Concourse Level	3.6.4.3
Station Storage Room	274 SF	150	Concourse Level	3.6.4.3
Ticket Sales + Admin Office	635 SF	375	Concourse Level	Based on Population
UPS Room	1,296 SF	900	Concourse Level	3.6.6.2
Women's Restroom	571 SF	n/a	Concourse Level	Based on California Building Code
Paid Concourse and Waiting	15,515 SF	11,222	Mezzanine Level	Table 14-3*
04-Platform				
Enclosed Waiting Area	608 SF	n/a	Platform Level	Table 3-10
Enclosed Waiting Area	602 SF	n/a	Platform Level	Table 3-10
Enclosed Waiting Area	600 SF	n/a	Platform Level	Table 3-10
Enclosed Waiting Area	611 SF	n/a	Platform Level	Table 3-10

*Area requirements are met when additively considering the Main Entrance area and the Secondary Entrance area

Ridership number used: 9,200 daily riders.
Room square footages above do account for columns.

REV	DATE	BY	CHK	APP	DESCRIPTION

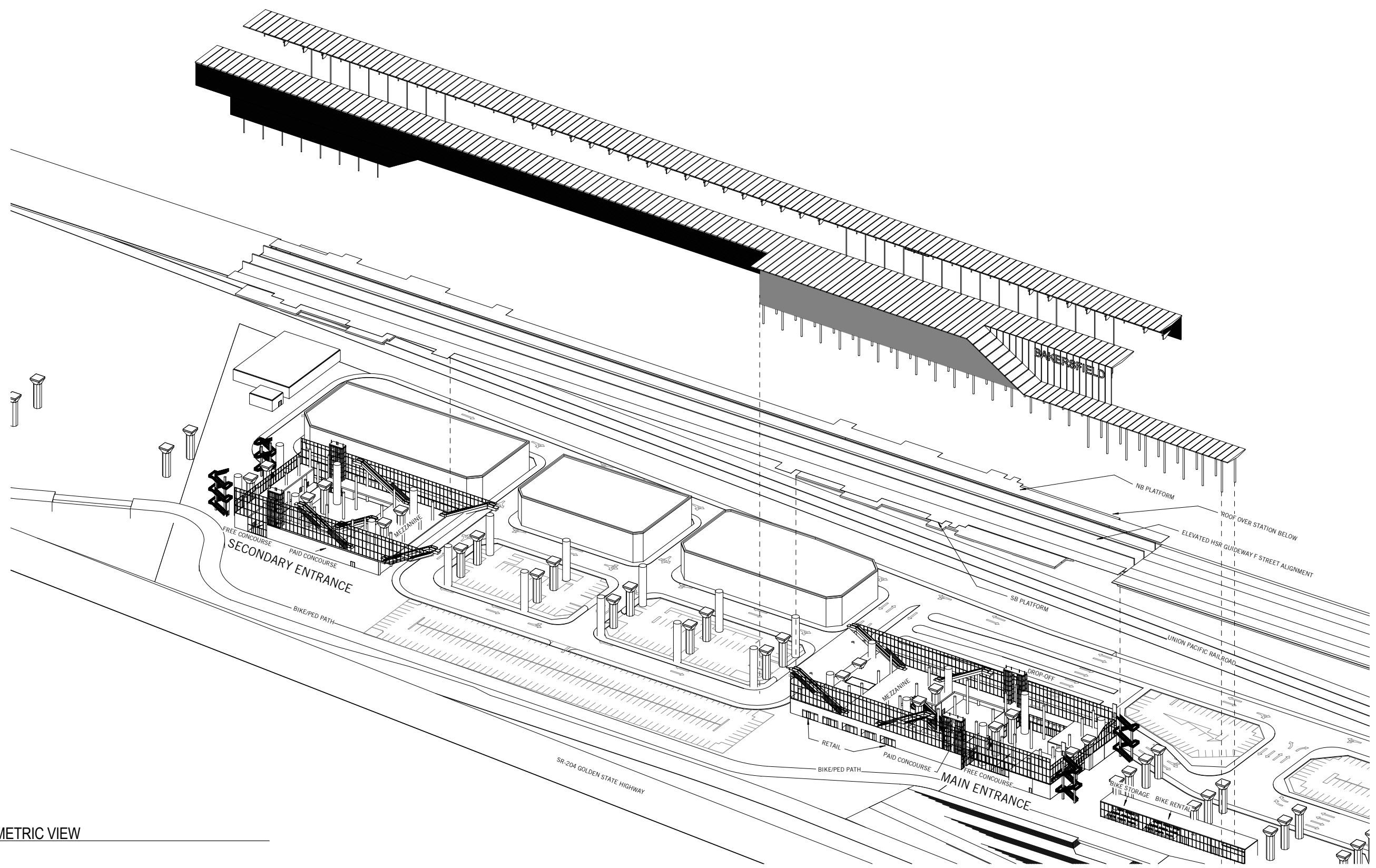
DESIGNED BY
L. Giaramidaro
DRAWN BY
S. Ahmadzai
CHECKED BY
P. Cowcher
IN CHARGE
G. Silwal
DATE
10/28/16

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD F STREET STATION
ROOM SCHEDULE

CONTRACT NO.	HSR13-44
DRAWING NO.	A6801
SCALE	N/A
SHEET NO.	139



1 AXONOMETRIC VIEW

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REV	DATE	BY	CHK	APP	DESCRIPTION

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L. Giaramidaro
DRAWN BY
S. Ahmadzai
CHECKED BY
P. Cowcher
IN CHARGE
G. Silwal
DATE
10/28/16

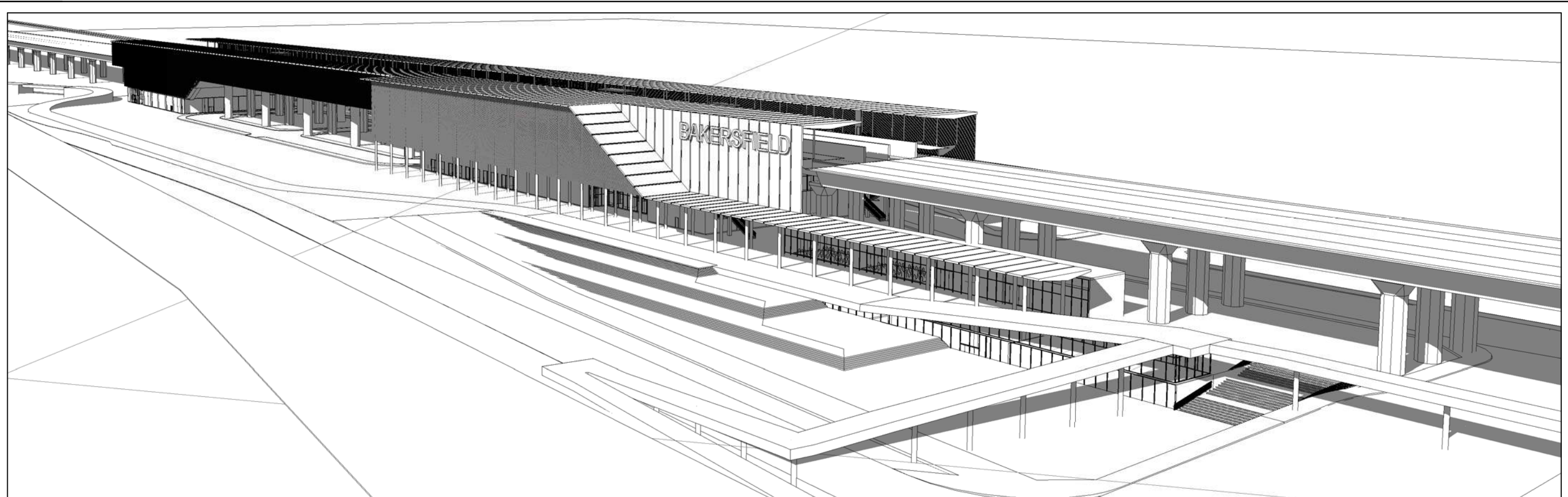
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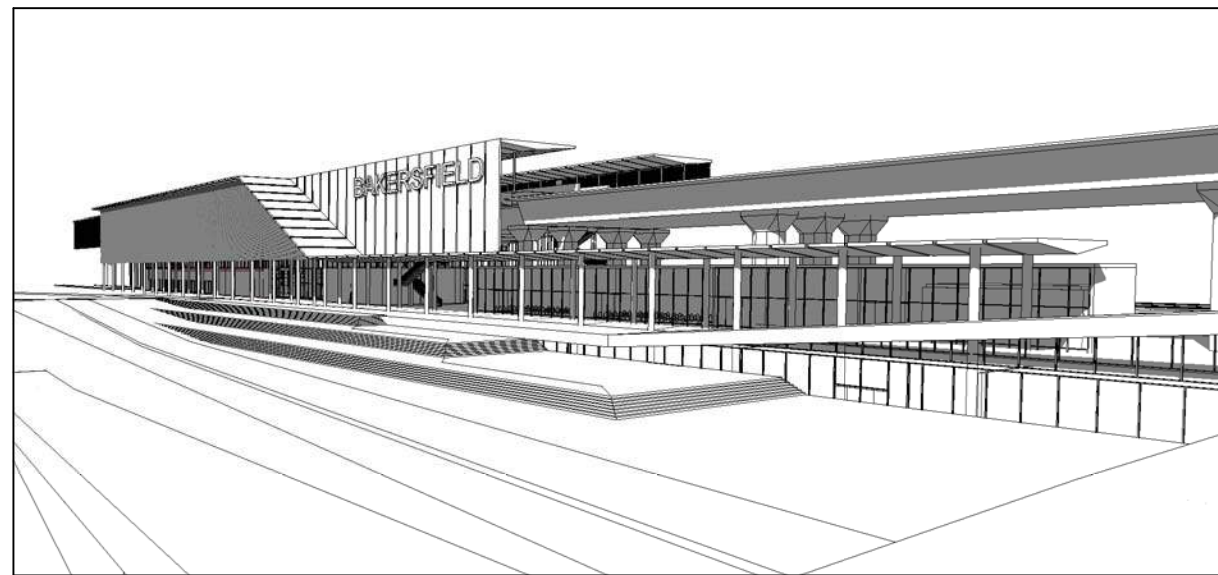


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD F STREET STATION
AXONOMETRIC VIEW

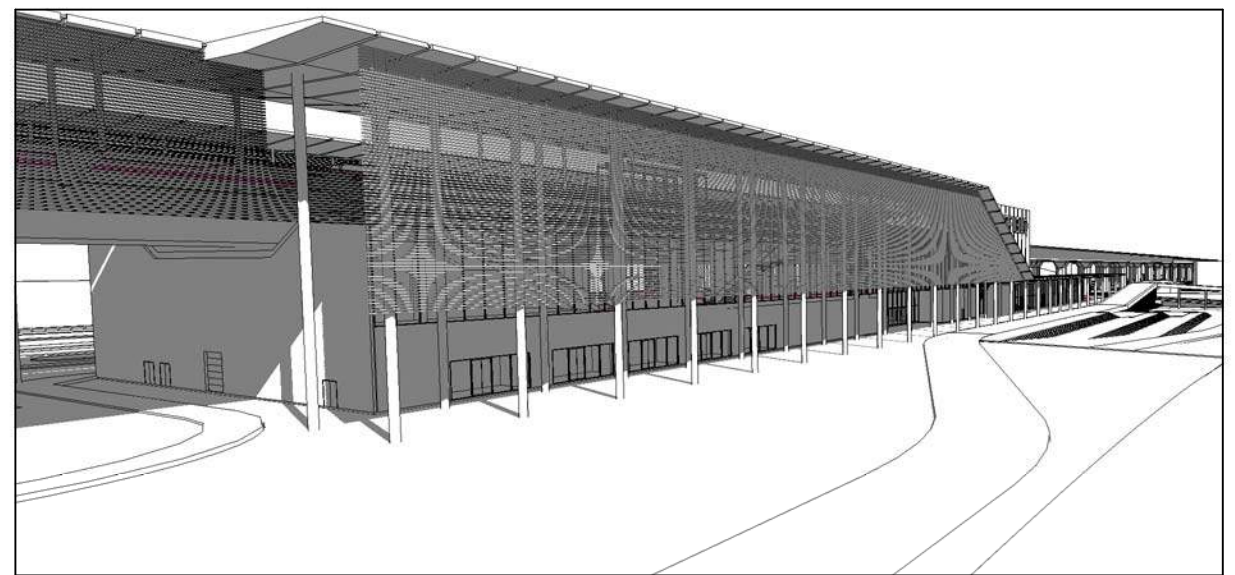
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DRAWING NO.	A9801
SCALE	N.T.S.
SHEET NO.	140



① OVERALL VIEW LOOKING WEST



② ENTRY PLAZA VIEW LOOKING WEST



③ MAIN ENTRANCE VIEW LOOKING EAST

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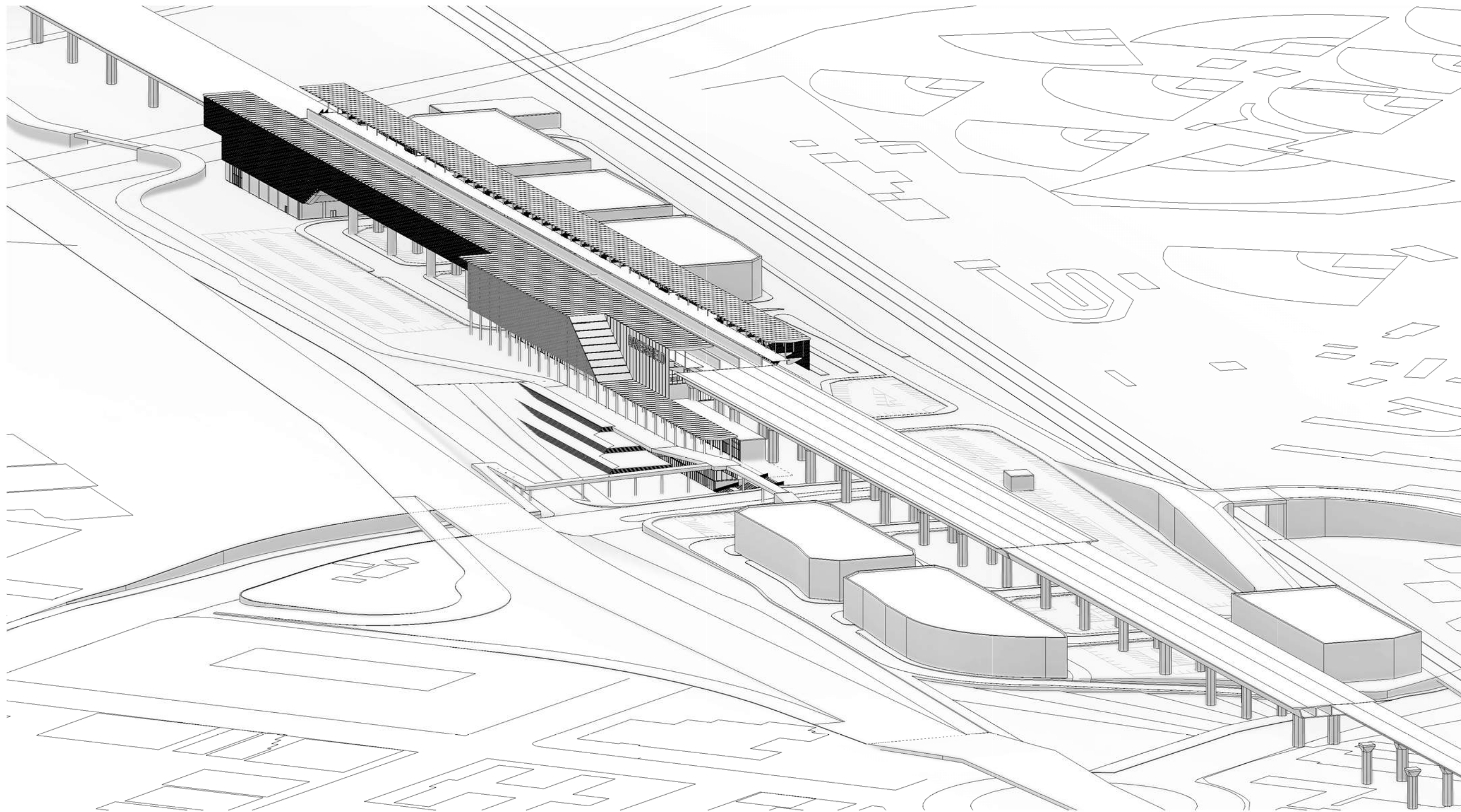
DESIGNED BY
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DRAWN BY
S. Ahmadzai
CHECKED BY
P. Cowcher
IN CHARGE
G. Silwal
DATE
10/28/16

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD F STREET STATION
PERSPECTIVE VIEWS

CONTRACT NO.	HSR13-44
DRAWING NO.	A9802
SCALE	N.T.S.
SHEET NO.	141



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② AERIAL VIEW

REV	DATE	BY	CHK	APP	DESCRIPTION

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 DRAWN BY
S. Ahmadzai
 CHECKED BY
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 IN CHARGE
G. Silwal
 DATE
10/28/16

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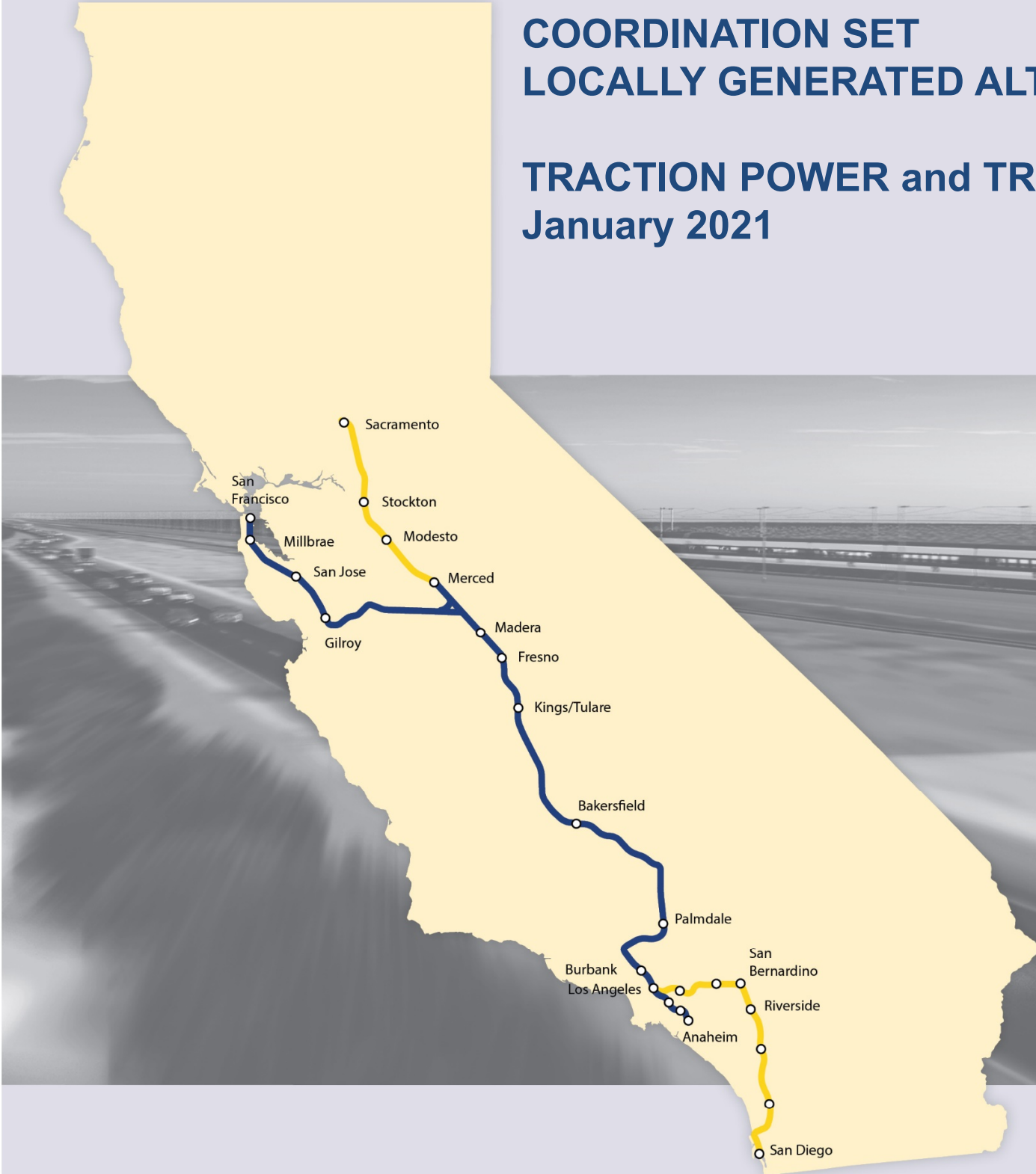
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 BAKERSFIELD F STREET STATION
AERIAL VIEW

CONTRACT NO. HSR13-44
 DRAWING NO. A9803
 SCALE N.T.S.
 SHEET NO. 142

Fresno to Bakersfield

COORDINATION SET
LOCALLY GENERATED ALTERNATIVE (LGA)

TRACTION POWER and TRAIN CONTROL PLANS
January 2021



The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

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TP-B0001		INDEX OF DRAWINGS
TP-B0002		KEY MAP
TP-B0003		KEY MAP
TP-C6001		WAYSIDE SYSTEMS SCHEMATIC
		TRACTION POWER SITE PLAN
TP-04001		PARALLELING STATION A - OPTIONS 1 AND 2 - 6026+00 & 6037+50
TP-04002-A		SWITCHING STATION A - OPTION 1 - 6216+00
TP-04002-B		SWITCHING STATION A - OPTION 2 - 6258+00
TP-04003		PARALLELING STATION B - OPTIONS 1 AND 2 - 6475+00 & 6480+00
TP-04004		PARALLELING STATION C - OPTIONS 1 AND 2 - 6724+00 & 6733+00
TP-04005-A		SUBSTATION A - OPTIONS 1 AND 2 - 6936+50 & 6939+75
TP-04005-B		SUBSTATION A - HIGH VOLTAGE SWITCHING STATION
		COMMUNICATIONS SYSTEM SITE PLAN
CO-04001-A		STANDALONE RADIO SITE A - OPTION 1 ACCESS ROAD
CO-04001-B		STANDALONE RADIO SITE A - OPTION 1 - 6216+00
CO-04001-C		STANDALONE RADIO SITE A - OPTION 2 ACCESS ROAD
CO-04001-D		STANDALONE RADIO SITE A - OPTION 2 - 6158+00
CO-04002-A		STANDALONE RADIO SITE B - 6348+00
CO-04002-B		STANDALONE RADIO SITE B - ACCESS ROAD
CO-04003		STANDALONE RADIO SITE C - 6601+00
		AUTOMATIC TRAIN CONTROL SITE PLAN
TC-F4001		INTERLOCKING SITE - 5866+91
TC-F4002		INTERLOCKING SITES - 5952+99 & 5958+00
TC-F4003		INTERLOCKING SITE - 5970+00
TC-F4004		INTERLOCKING SITE - 6793+00
TC-F4005-A		INTERLOCKING SITES - 6824+25 & 6824+75 ACCESS ROAD
TC-F5005-B		INTERLOCKING SITES - 6824+25 & 6824+75
TC-F4006-A		INTERLOCKING SITE - 6848+00
TC-F4006-B		INTERLOCKING SITES - 6865+00, 6867+50, & 6876+25
TC-F4007		INTERLOCKING SITE - 6984+20, 6998+50
TC-F4008		INTERLOCKING SITE - 7010+93

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON

DRAWN BY
T. WILKINSON

CHECKED BY
J. SIHOTA

IN CHARGE
E. WINTERS

DATE
10/28/2016

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TYLIN INTERNATIONAL



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**

LOCALLY GENERATED ALTERNATIVE
TRACTION POWER, COMMUNICATIONS SYSTEM,
AND AUTOMATIC TRAIN CONTROL SITE PLANS
INDEX OF DRAWINGS

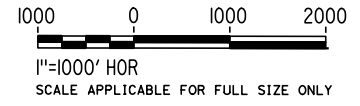
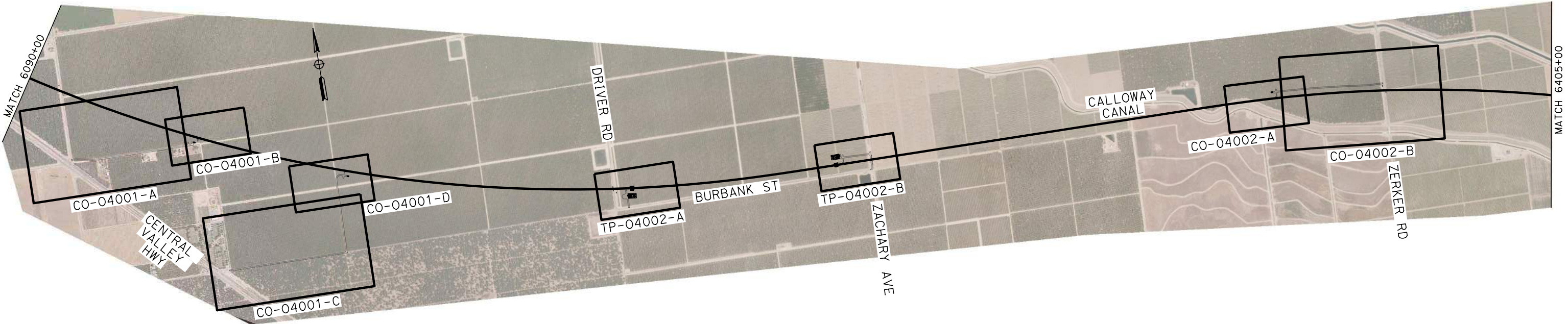
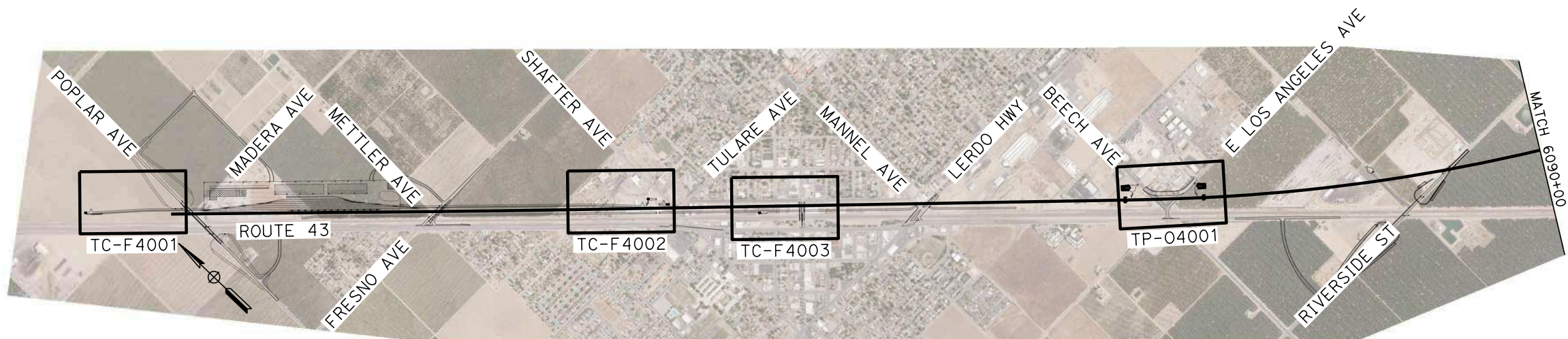
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T. WILKINSON
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T. WILKINSON
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E. WINTERS
DATE
10/28/2016

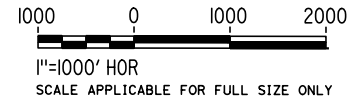
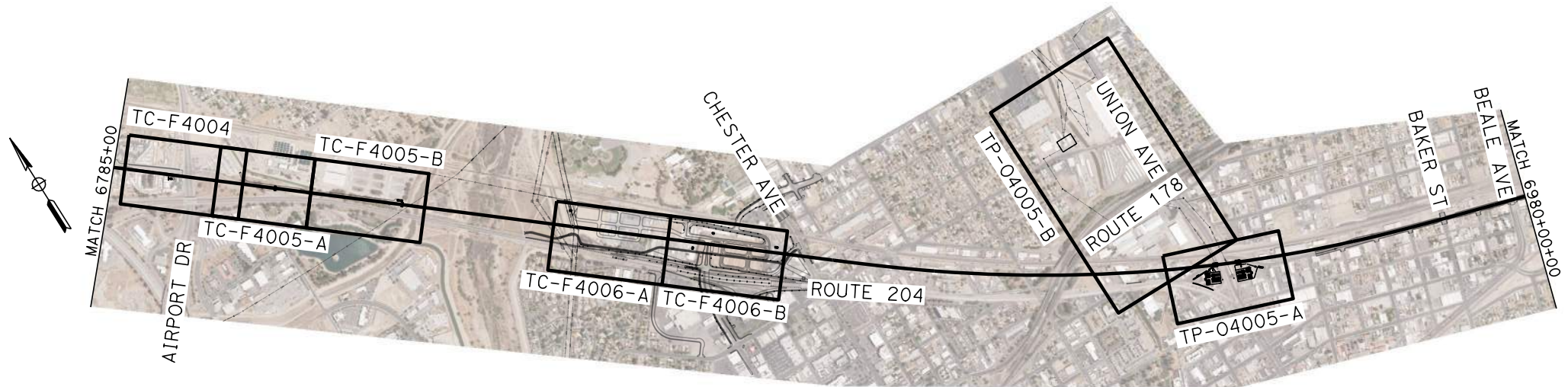
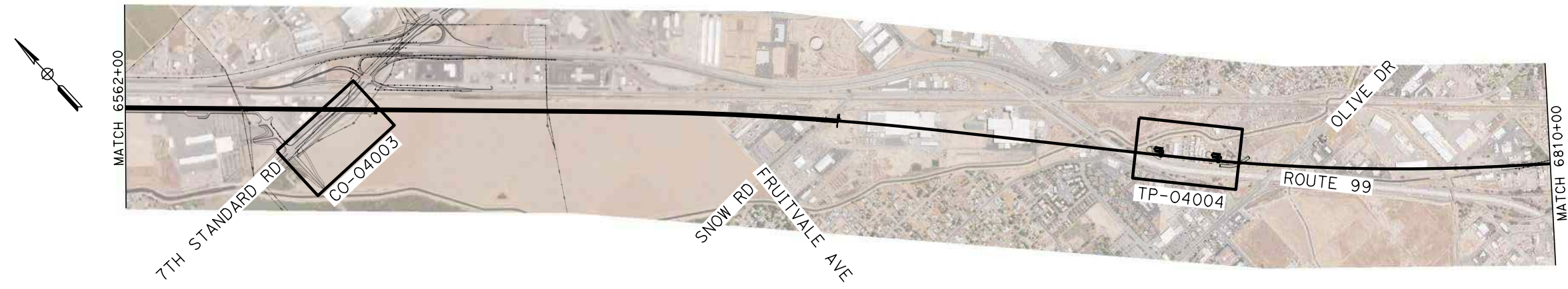
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACTION POWER, COMMUNICATIONS SYSTEM,
AND AUTOMATIC TRAIN CONTROL SITE PLANS
KEY MAP

CONTRACT NO.
HSR13-44
DRAWING NO.
TP-B0002
SCALE
AS SHOWN
SHEET NO.
145

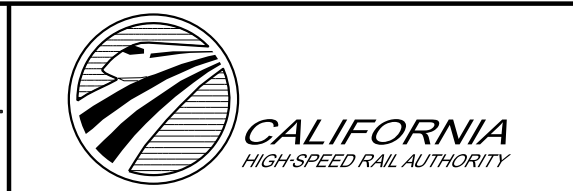
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T. WILKINSON
DRAWN BY
T. WILKINSON
CHECKED BY
J. SIHOTA
IN CHARGE
E. WINTERS
DATE
10/28/2016

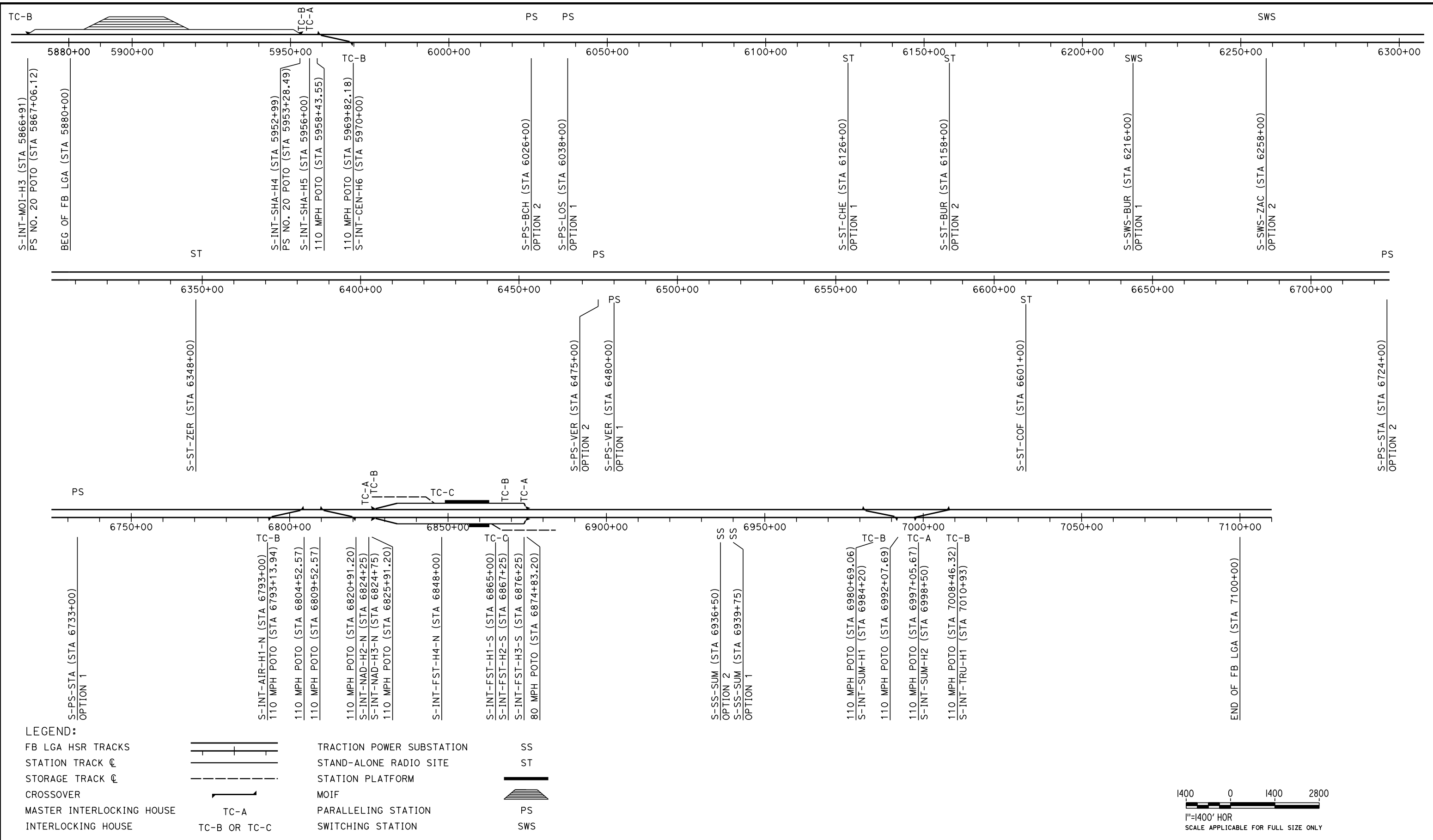
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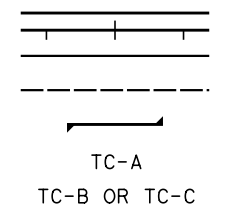
**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACTION POWER, COMMUNICATIONS SYSTEM,
AND AUTOMATIC TRAIN CONTROL SITE PLANS
KEY MAP

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TP-B0003
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AS SHOWN
SHEET NO.
146

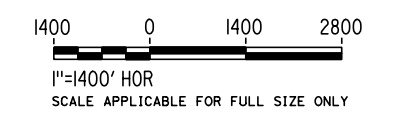
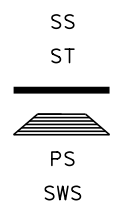
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LEGEND:
 FB LGA HSR TRACKS
 STATION TRACK ☐
 STORAGE TRACK ☐
 CROSSOVER
 MASTER INTERLOCKING HOUSE
 INTERLOCKING HOUSE



TRACTION POWER SUBSTATION
 STAND-ALONE RADIO SITE
 STATION PLATFORM
 MOIF
 PARALLELING STATION
 SWITCHING STATION



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON
 DRAWN BY
T. WILKINSON
 CHECKED BY
J. SIHOTA
 IN CHARGE
E. WINTERS
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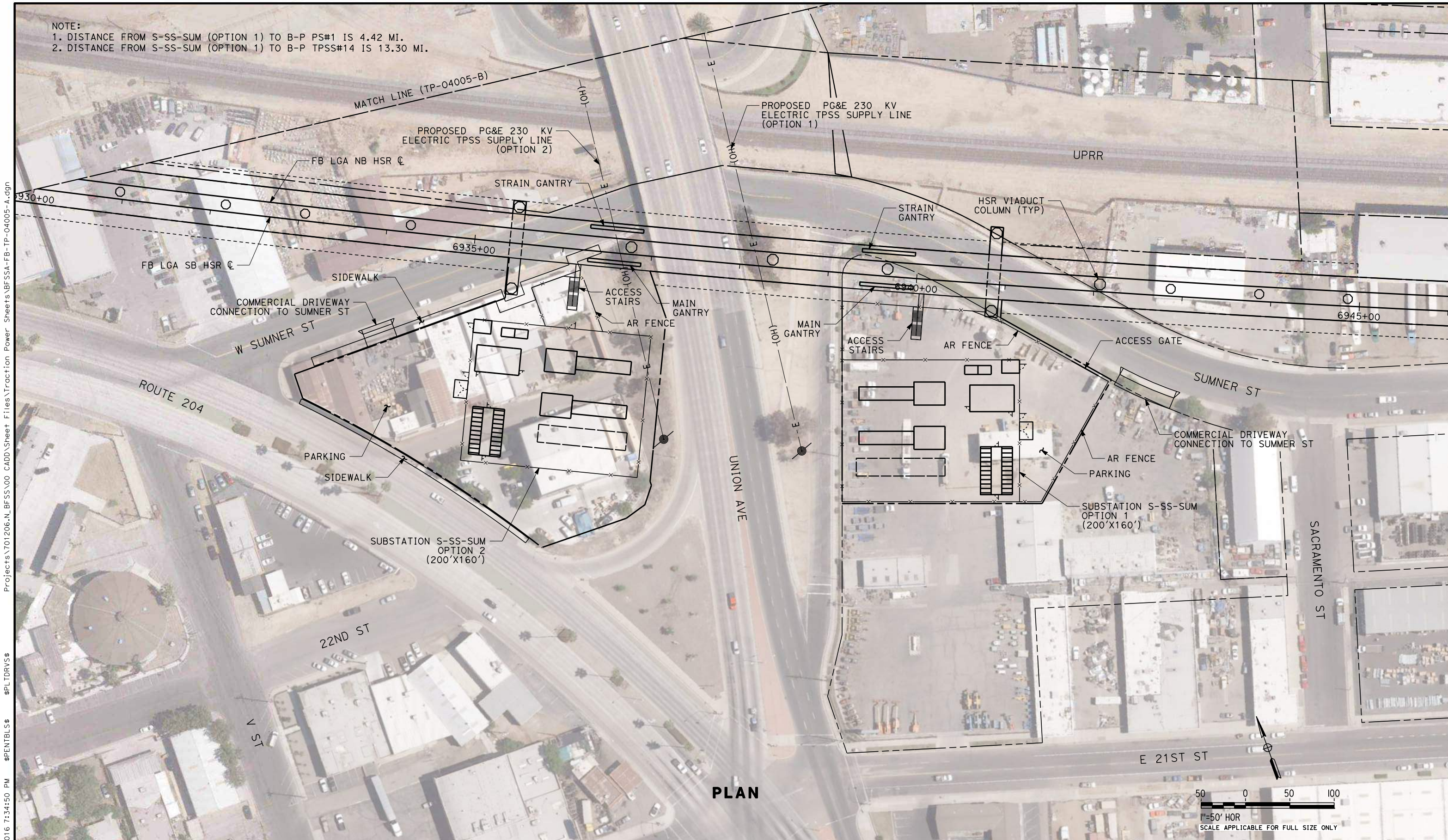
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CALIFORNIA
 HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 SYSTEMS FACILITIES SCHEMATIC PLAN

CONTRACT NO.
HSR13-44
 DRAWING NO.
TP-C6001
 SCALE
AS SHOWN
 SHEET NO.
147

NOTE:
 1. DISTANCE FROM S-SS-SUM (OPTION 1) TO B-P PS#1 IS 4.42 MI.
 2. DISTANCE FROM S-SS-SUM (OPTION 1) TO B-P TPSS#14 IS 13.30 MI.



PLAN

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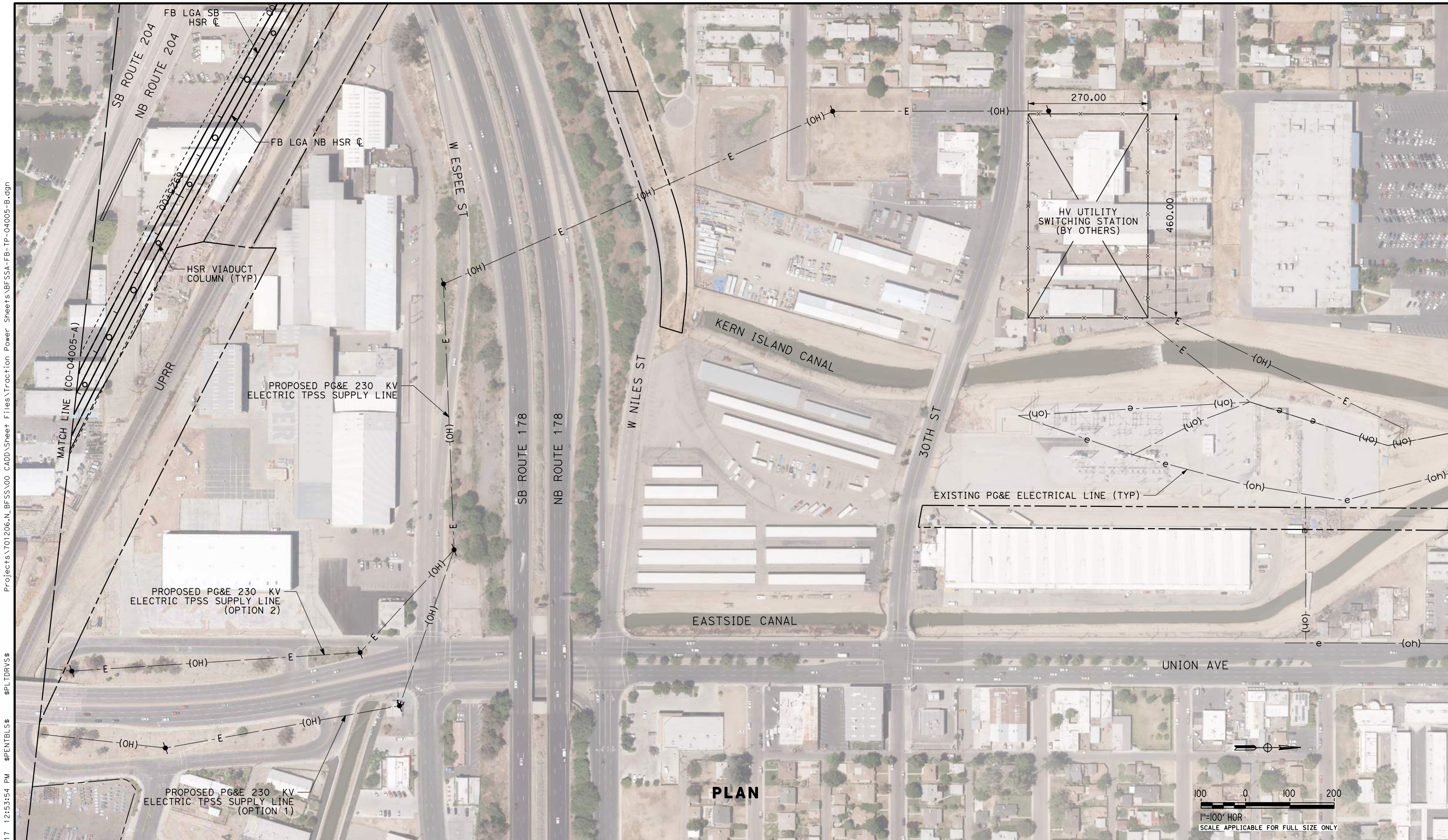
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T. WILKINSON
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T. WILKINSON
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J. SIHOTA
 IN CHARGE
E. WINTERS
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10/28/2016

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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACTION POWER SITE PLAN
 SUBSTATION A
 OPTIONS 1 AND 2

CONTRACT NO.
HSR13-44
 DRAWING NO.
TP-04005-A
 SCALE
AS SHOWN
 SHEET NO.
148



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 \$PLTDRVS\$
 \$PENTBL\$
 1/3/2017 12:53:54 PM
 TYLIN\jtrejo

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON
 DRAWN BY
N. OLINO
 CHECKED BY
J. SIHOTA
 IN CHARGE
E. WINTERS
 DATE
01/03/2017

RECORD SET
PEPD DESIGN
SUBMISSION

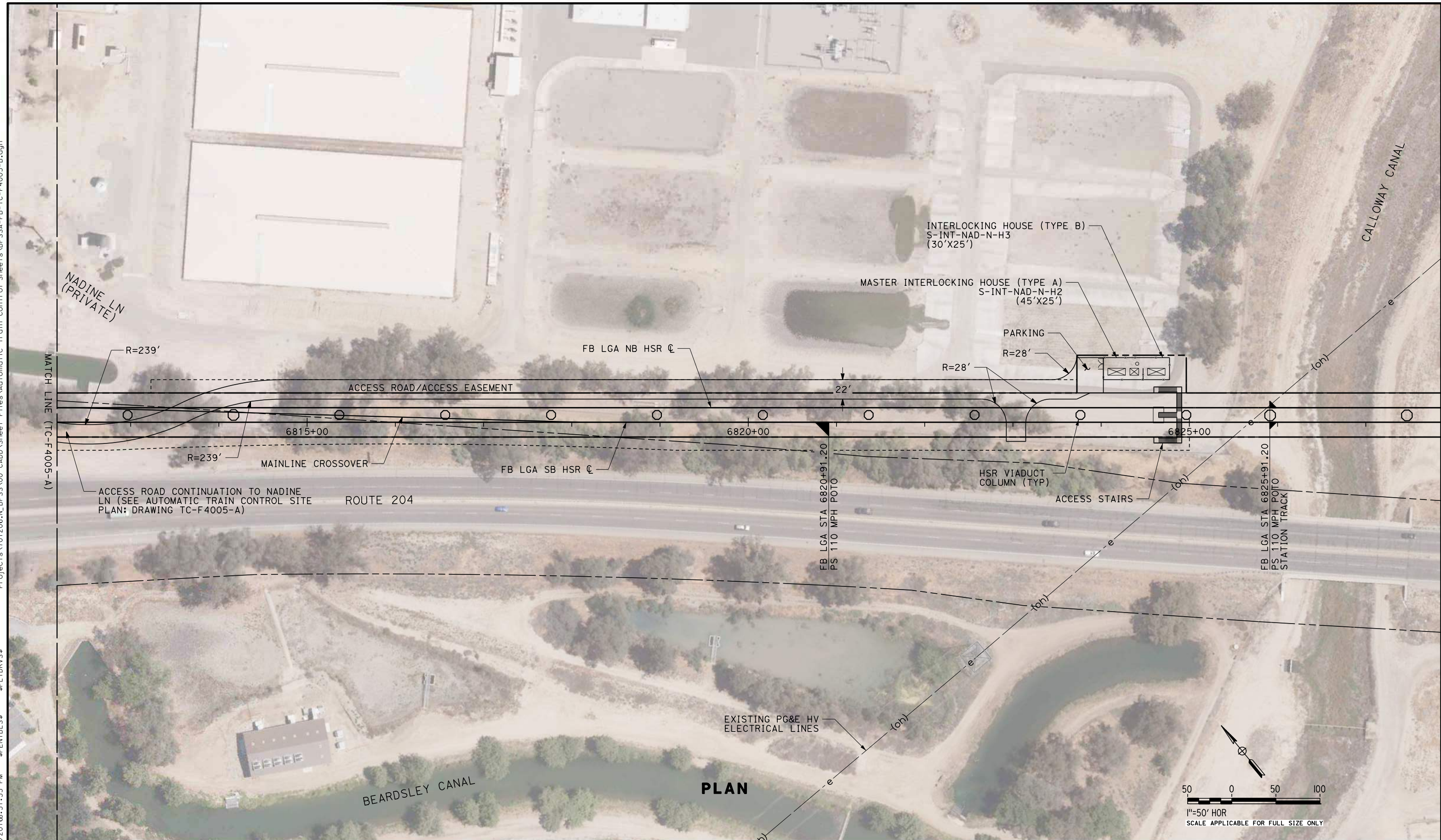
TYLININTERNATIONAL



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACTION POWER SITE PLAN
 SUBSTATION A
 HIGH VOLTAGE UTILITY SWITCHING STATION

CONTRACT NO.
HSR13-44
 DRAWING NO.
TP-04005-B
 SCALE
AS SHOWN
 SHEET NO.
149

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PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON
DRAWN BY
T. WILKINSON
CHECKED BY
J. SIHOTA
IN CHARGE
E. WINTERS
DATE
10/28/2016

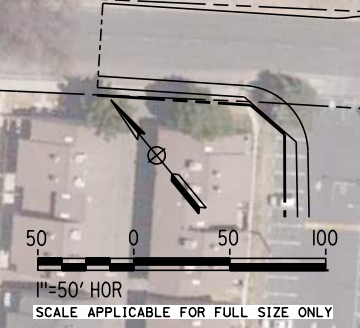
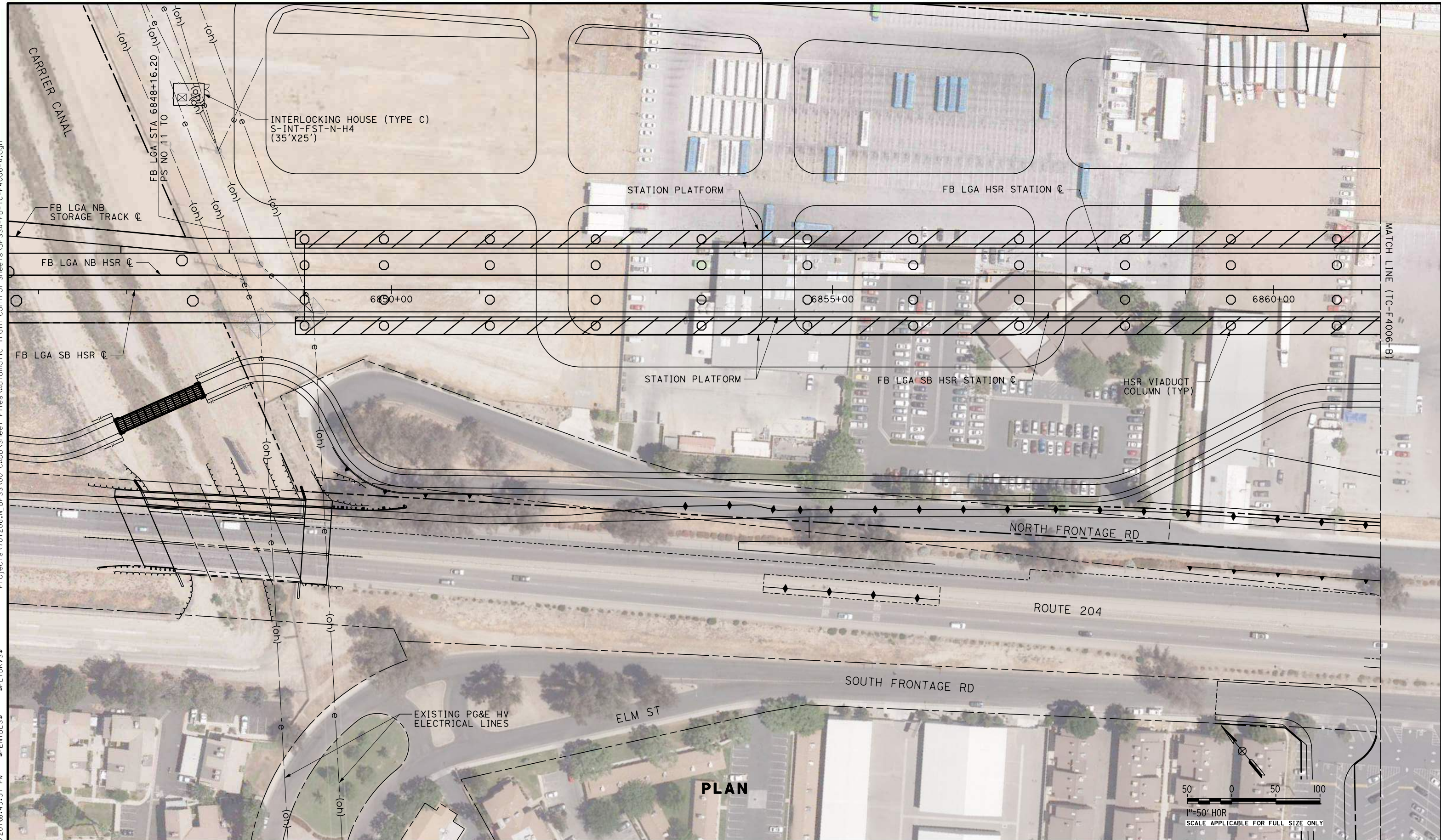
**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITES AT 6824+25 AND 6824+75

CONTRACT NO.
HSR13-44
DRAWING NO.
TC-F4005-B
SCALE
AS SHOWN
SHEET NO.
150

TYLIN\trajo 10/26/2016 4:45:15 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N.BFSS\00 CADD\Sheet Files\Automatic Train Control Sheets\BFSSA-FB-TC-F4006-A.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON
DRAWN BY
T. WILKINSON
CHECKED BY
J. SIHOTA
IN CHARGE
E. WINTERS
DATE
10/28/2016

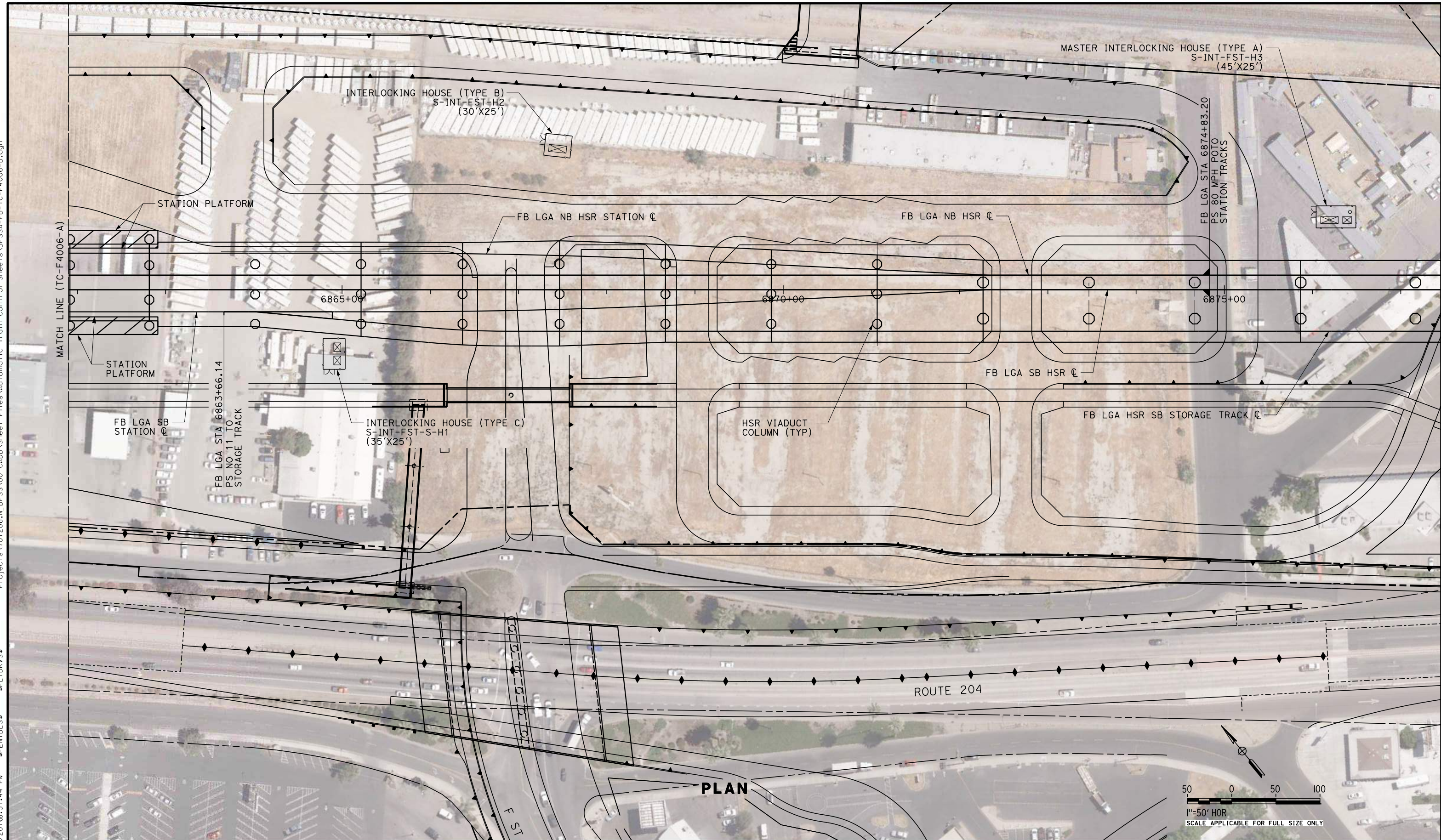
**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AT 6848+00

CONTRACT NO.
HSR13-44
DRAWING NO.
TC-F4006-A
SCALE
AS SHOWN
SHEET NO.
151

TYLI\lino\lino 10/25/2016 3:14:44 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N.BFSS\00 CADD\Sheet Files\Automatic Train Control Sheets\FBSSA-FB-TC-F4006-B.dgn

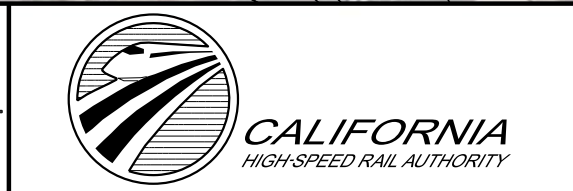


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON
DRAWN BY
T. WILKINSON
CHECKED BY
J. SIHOTA
IN CHARGE
E. WINTERS
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**

TYLIN INTERNATIONAL



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITES AT 6865+00, 6867+00, AND 6876+00

CONTRACT NO.
HSR13-44
DRAWING NO.
TC-F4006-B
SCALE
AS SHOWN
SHEET NO.
152

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 \$PENTBLS\$
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PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON
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T. WILKINSON
 CHECKED BY
J. SIHOTA
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

**RECORD SET
 PEPP DESIGN
 SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 AUTOMATIC TRAIN CONTROL SITE PLAN
 INTERLOCKING SITES AT 6984+20 AND 6998+50

CONTRACT NO.
HSR13-44
 DRAWING NO.
TC-F4007
 SCALE
AS SHOWN
 SHEET NO.
153

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PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON
DRAWN BY
T. WILKINSON
CHECKED BY
J. SIHOTA
IN CHARGE
E. WINTERS
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AT 7010+80

CONTRACT NO.
HSR13-44
DRAWING NO.
TC-F4008
SCALE
AS SHOWN
SHEET NO.
154