California High-Speed Rail Authority

Fresno to Bakersfield

Coordination Set
Locally Generated Alternative (LGA)

General Plans
January 2020

CALIFORNIA High-Speed Rail Authority

GENERAL, TRACK GUIDEWAY

DRAWING NO.	DRAWING DESCRIPTION
	COVER SHEET - COORDINATION SET GENERAL
GE-B0001	INDEX OF SHEETS
GE-B0002	INDEX OF SHEETS
GE-B0003	INDEX OF SHEETS
	COVER SHEET - TRACK GUIDEWAY
TT-B0001	INDEX OF DRAWINGS
TT-B0002	GENERAL - GENERAL NOTES
TT-B0003	GENERAL - ABBREVIATIONS AND SYMBOLS SHEET 1
TT-B0004	GENERAL - ABBREVIATIONS AND SYMBOLS SHEET 2
TT-B0005	TRACK GUIDEWAY - KEY MAP SHEET 1
TT-B0006	TRACK GUIDEWAY - KEY MAP SHEET 2
TT-B0007	TRACK GUIDEWAY - HORIZONTAL ALIGNMENT DATA TABLE
TT-B0013	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 6
TT-B0014	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 7
TT-B0015	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 8
TT-B0016	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 9
TT-B0017	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 10
TT-B0018	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 11
TT-B0019	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 12
TT-B0020	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 13
TT-B0021	TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 14
TT-D1035	TRACK GUIDEWAY - STA 6814+00 TO 6828+00 - PLAN AND PROFILE
TT-D1036	TRACK GUIDEWAY - STA 6828+00 TO 6842+00 - PLAN AND PROFILE
TT-D1037	TRACK GUIDEWAY - STA 6842+00 TO 6856+00 - PLAN AND PROFILE
TT-D1038	TRACK GUIDEWAY - STA 6856+00 TO 6870+00 - PLAN AND PROFILE
TT-D1039	TRACK GUIDEWAY - STA 6870+00 TO 6884+00 - PLAN AND PROFILE
TT-D1040	TRACK GUIDEWAY - STA 6884+00 TO 6912+00 - PLAN AND PROFILE
TT-D1041	TRACK GUIDEWAY - STA 6912+00 TO 6940+00 - PLAN AND PROFILE
TT-D1042	TRACK GUIDEWAY - STA 6940+00 TO 6968+00 - PLAN AND PROFILE
TT-D1043	TRACK GUIDEWAY - STA 6968+00 TO 6996+00 - PLAN AND PROFILE
TT-D1044	TRACK GUIDEWAY - STA 6996+00 TO 7024+00 - PLAN AND PROFILE
TT-D1045	TRACK GUIDEWAY - STA 7024+00 TO 7052+00 - PLAN AND PROFILE
TT-D1046	TRACK GUIDEWAY - STA 7052+00 TO 7080+00 - PLAN AND PROFILE
TT-D1047	TRACK GUIDEWAY - STA 7080+00 TO 7101+08 - PLAN AND PROFILE
TT-D1048	TRACK GUIDEWAY - STATION TRACKS - STA 0+00 TO 26+00 - PLAN AND PROFILE
TT-D1049	TRACK GUIDEWAY - STATION TRACKS - STA 26+00 TO 48+93 - PLAN AND PROFILE
TT-D1050	TRACK GUIDEWAY - STATION NB STORAGE TRACK - PLAN AND PROFILE
TT-D1051	TRACK GUIDEWAY - STATION SB STORAGE TRACK - PLAN AND PROFILE

ROADWAY, GRADE SEPARATION

DRAWING NO.	DRAWING DESCRIPTION
	COVER SHEET - ROADWAY
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-B0025	TYPICAL SECTION
CV-B0035	TYPICAL SECTION
CV-B0036	TYPICAL SECTION
CV-B0037	TYPICAL SECTION
CV-B0038	TYPICAL SECTION
CV-B0039	TYPICAL SECTION
CV-B0040	TYPICAL SECTION
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
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-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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. LANDOLT
DRAWN BY J. MEREDITH
CHECKED BY G. CAMPBELL
IN CHARGE S. SMITH
DATE 10/31/2017

RECORD
PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. GE-B0001
SCALE NO SCALE
SHEET NO.

ROADWAY, ELEVATED STRUCTURES

DRAWING NO.	DRAWING DESCRIPTION
CV-T7012	DRAFT GENERAL PLAN - CHESTER AVE UC
CV-T7013	DRAFT SECTIONS - CHESTER AVE UC
CV-T7018	DRAFT GENERAL PLAN - 34TH STREET
	COVER SHEET - ELEVATED STRUCTURES
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-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
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

ELEVATED STRUCTURES, STATION PLANS, SYSTEMS

DRAWING NO.	DRAWING DESCRIPTION
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
	COVER SHEET - STATION PLANS
G00-01	INDEX OF DRAWINGS
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
A1815	MEZZANINE FLOOR PLAN-MAIN ENTRANCE
A1816	PLATFORM FLOOR PLAN-MAIN ENTRANCE
A1817	CONCOURSE FLOOR PLAN-SECONDARY ENTRANCE
A1818	MEZZANINE FLOOR PLAN-SECONDARY ENTRANCE
A3801	LONGITUDINAL SECTION
A3802	BUILDING SECTION & ELEVATION
A6801	ROOM SCHEDULE
A9801	AXONOMETRIC VIEW
A9802	PRESPECTIVE VIEWS
A9803	AERIAL VIEW
	COVER SHEET - RAILWAY SYSTEMS
TP-B0001	INDEX OF DRAWINGS
TP-B0002	KEY MAP
TP-B0003	KEY MAP
TP-C6001	WAYSIDE SYSTEMS SCHEMATIC

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. LANDOLT
DRAWN BY J. MEREDITH
CHECKED BY G. CAMPBELL
IN CHARGE S. SMITH
DATE 10/31/2017

RECORD
PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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

RAILWAY SYSTEMS, UTILITIES

DRAWING NO.	DRAWING DESCRIPTION
TP-04005-A	SUBSTATION A - OPTIONS 1 AND 2 - 6936+50 & 6939+75
TP-04005-B	SUBSTATION A - HIGH VOLTAGE SWITCHING STATION
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
	COVER SHEET - UTILITIES
UT-B0001	INDEX OF DRAWINGS & UTILITY OWNER ABBREVIATIONS
UT-B0002	LEGEND, SYMBOLS, ABBREVIATIONS & NOTES
UT-B0003	KEY MAP
UT-B0004	KEY MAP
UT-B0005	UTILITY CROSSING CLEARANCES AT GRADE
UT-C1035	COMPOSITE UTILITY PLAN STA 6814+00 TO 6842+00
UT-C1036	COMPOSITE UTILITY PLAN STA 6842+00 TO 6870+00
UT-C1037	COMPOSITE UTILITY PLAN STA 6870+00 TO 6898+00
UT-C1038	COMPOSITE UTILITY PLAN STA 6898+00 TO 6926+00
UT-C1039	COMPOSITE UTILITY PLAN STA 6926+00 TO 6954+00
UT-C1040	COMPOSITE UTILITY PLAN STA 6954+00 TO 6982+00
UT-C1041	COMPOSITE UTILITY PLAN STA 6982+00 TO 7010+00
UT-C1042	COMPOSITE UTILITY PLAN STA 7010+00 TO 7038+00
UT-C1043	COMPOSITE UTILITY PLAN STA 7038+00 TO 7066+00
UT-C1044	COMPOSITE UTILITY PLAN STA 7066+00 TO 7094+00
UT-C1045	COMPOSITE UTILITY PLAN STA 7094+00 TO 7100+00
UT-C1506	COMPOSITE UTILITY PLAN F STREET
UT-C1507	COMPOSITE UTILITY PLAN 34TH STREET
UT-Y4505	HH&D FACILITY SCHEDULE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. LANDOLT
DRAWN BY J. MEREDITH
CHECKED BY G. CAMPBELL
IN CHARGE S. SMITH
DATE 10/31/2017

RECORD
PEPD SUBMITTAL

NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

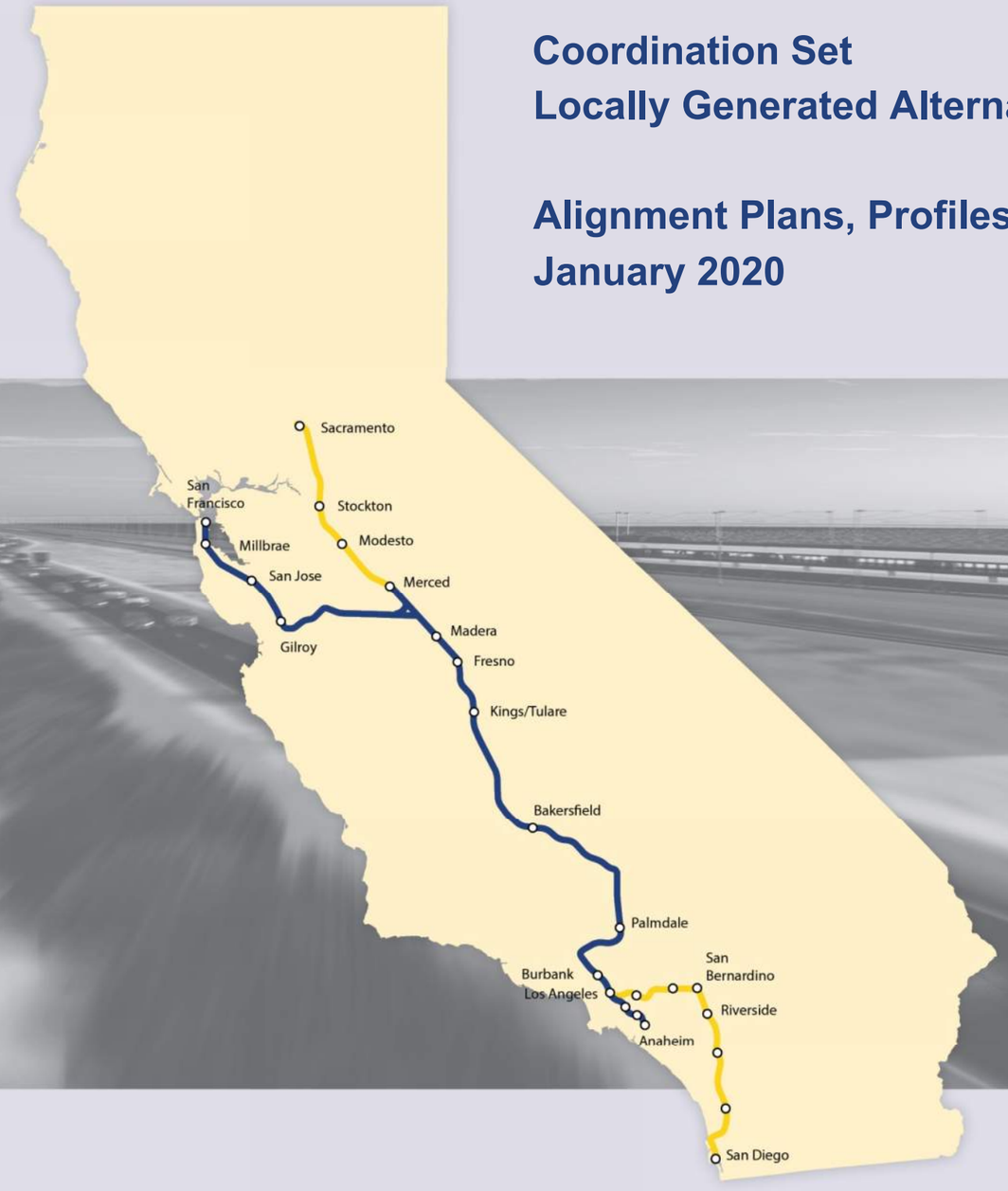
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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

California High-Speed Rail Authority

Fresno to Bakersfield



Coordination Set
Locally Generated Alternative (LGA)

Alignment Plans, Profiles and Cross Sections
January 2020

CALIFORNIA High-Speed Rail Authority

U.S. Department of Transportation
Federal Railroad Administration

DRAWING NO.	REV NO.	DRAWING DESCRIPTION
		TRACK GUIDEWAY
TT-B0001		INDEX OF DRAWINGS
TT-B0002		GENERAL - GENERAL NOTES
TT-B0003		GENERAL - ABBREVIATIONS AND SYMBOLS SHEET 1
TT-B0004		GENERAL - ABBREVIATIONS AND SYMBOLS SHEET 2
TT-B0005		TRACK GUIDEWAY - KEY MAP SHEET 1
TT-B0006		TRACK GUIDEWAY - KEY MAP SHEET 2
TT-B0007		TRACK GUIDEWAY - HORIZONTAL ALIGNMENT DATA TABLE
~~TT-B0008~~		~~TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 1~~
~~TT-B0009~~		~~TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 2~~
~~TT-B0010~~		~~TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 3~~
~~TT-B0011~~		~~TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 4~~
~~TT-B0012~~		~~TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 5~~
TT-B0013		TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 6
TT-B0014		TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 7
TT-B0015		TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 8
TT-B0016		TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 9
TT-B0017		TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 10
TT-B0018		TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 11
TT-B0019		TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 12
TT-B0020		TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 13
TT-B0021		TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 14
~~TT-B0022~~		~~TRACK GUIDEWAY - TYPICAL SECTIONS SHEET 15~~
~~TT-D1001~~		~~TRACK GUIDEWAY - STA 5880+00 TO 5890+00 - PLAN AND PROFILE~~
~~TT-D1002~~		~~TRACK GUIDEWAY - STA 5890+00 TO 5918+00 - PLAN AND PROFILE~~
~~TT-D1003~~		~~TRACK GUIDEWAY - STA 5918+00 TO 5946+00 - PLAN AND PROFILE~~
~~TT-D1004~~		~~TRACK GUIDEWAY - STA 5946+00 TO 5974+00 - PLAN AND PROFILE~~
~~TT-D1005~~		~~TRACK GUIDEWAY - STA 5974+00 TO 6002+00 - PLAN AND PROFILE~~
~~TT-D1006~~		~~TRACK GUIDEWAY - STA 6002+00 TO 6030+00 - PLAN AND PROFILE~~
~~TT-D1007~~		~~TRACK GUIDEWAY - STA 6030+00 TO 6058+00 - PLAN AND PROFILE~~
~~TT-D1008~~		~~TRACK GUIDEWAY - STA 6058+00 TO 6086+00 - PLAN AND PROFILE~~
~~TT-D1009~~		~~TRACK GUIDEWAY - STA 6086+00 TO 6114+00 - PLAN AND PROFILE~~
~~TT-D1010~~		~~TRACK GUIDEWAY - STA 6114+00 TO 6142+00 - PLAN AND PROFILE~~
~~TT-D1011~~		~~TRACK GUIDEWAY - STA 6142+00 TO 6170+00 - PLAN AND PROFILE~~
~~TT-D1012~~		~~TRACK GUIDEWAY - STA 6170+00 TO 6198+00 - PLAN AND PROFILE~~
~~TT-D1013~~		~~TRACK GUIDEWAY - STA 6198+00 TO 6226+00 - PLAN AND PROFILE~~
~~TT-D1014~~		~~TRACK GUIDEWAY - STA 6226+00 TO 6254+00 - PLAN AND PROFILE~~
~~TT-D1015~~		~~TRACK GUIDEWAY - SST 6254+00 TO 6282+00 - PLAN AND PROFILE~~
~~TT-D1016~~		~~TRACK GUIDEWAY - STA 6282+00 TO 6310+00 - PLAN AND PROFILE~~
~~TT-D1017~~		~~TRACK GUIDEWAY - STA 6310+00 TO 6338+00 - PLAN AND PROFILE~~
~~TT-D1018~~		~~TRACK GUIDEWAY - STA 6338+00 TO 6366+00 - PLAN AND PROFILE~~
~~TT-D1019~~		~~TRACK GUIDEWAY - STA 6366+00 TO 6394+00 - PLAN AND PROFILE~~
~~TT-D1020~~		~~TRACK GUIDEWAY - STA 6394+00 TO 6422+00 - PLAN AND PROFILE~~
~~TT-D1021~~		~~TRACK GUIDEWAY - STA 6422+00 TO 6450+00 - PLAN AND PROFILE~~
~~TT-D1022~~		~~TRACK GUIDEWAY - STA 6450+00 TO 6478+00 - PLAN AND PROFILE~~
~~TT-D1023~~		~~TRACK GUIDEWAY - STA 6478+00 TO 6506+00 - PLAN AND PROFILE~~
~~TT-D1024~~		~~TRACK GUIDEWAY - STA 6506+00 TO 6534+00 - PLAN AND PROFILE~~
~~TT-D1025~~		~~TRACK GUIDEWAY - STA 6534+00 TO 6562+00 - PLAN AND PROFILE~~
~~TT-D1026~~		~~TRACK GUIDEWAY - STA 6562+00 TO 6590+00 - PLAN AND PROFILE~~
~~TT-D1027~~		~~TRACK GUIDEWAY - STA 6590+00 TO 6618+00 - PLAN AND PROFILE~~
~~TT-D1028~~		~~TRACK GUIDEWAY - STA 6618+00 TO 6646+00 - PLAN AND PROFILE~~
~~TT-D1029~~		~~TRACK GUIDEWAY - STA 6646+00 TO 6674+00 - PLAN AND PROFILE~~
~~TT-D1030~~		~~TRACK GUIDEWAY - STA 6674+00 TO 6702+00 - PLAN AND PROFILE~~
~~TT-D1031~~		~~TRACK GUIDEWAY - STA 6702+00 TO 6730+00 - PLAN AND PROFILE~~
~~TT-D1032~~		~~TRACK GUIDEWAY - STA 6730+00 TO 6758+00 - PLAN AND PROFILE~~
~~TT-D1033~~		~~TRACK GUIDEWAY - STA 6758+00 TO 6786+00 - PLAN AND PROFILE~~
~~TT-D1034~~		~~TRACK GUIDEWAY - STA 6786+00 TO 6814+00 - PLAN AND PROFILE~~
TT-D1035		TRACK GUIDEWAY - STA 6814+00 TO 6828+00 - PLAN AND PROFILE

DRAWING NO.	REV NO.	DRAWING DESCRIPTION
		TRACK GUIDEWAY
TT-D1036		TRACK GUIDEWAY - STA 6828+00 TO 6842+00 - PLAN AND PROFILE
TT-D1037		TRACK GUIDEWAY - STA 6842+00 TO 6856+00 - PLAN AND PROFILE
TT-D1038		TRACK GUIDEWAY - STA 6856+00 TO 6870+00 - PLAN AND PROFILE
TT-D1039		TRACK GUIDEWAY - STA 6870+00 TO 6884+00 - PLAN AND PROFILE
TT-D1040		TRACK GUIDEWAY - STA 6884+00 TO 6912+00 - PLAN AND PROFILE
TT-D1041		TRACK GUIDEWAY - STA 6912+00 TO 6940+00 - PLAN AND PROFILE
TT-D1042		TRACK GUIDEWAY - STA 6940+00 TO 6968+00 - PLAN AND PROFILE
TT-D1043		TRACK GUIDEWAY - STA 6968+00 TO 6996+00 - PLAN AND PROFILE
TT-D1044		TRACK GUIDEWAY - STA 6996+00 TO 7024+00 - PLAN AND PROFILE
TT-D1045		TRACK GUIDEWAY - STA 7024+00 TO 7052+00 - PLAN AND PROFILE
TT-D1046		TRACK GUIDEWAY - STA 7052+00 TO 7080+00 - PLAN AND PROFILE
TT-D1047		TRACK GUIDEWAY - STA 7080+00 TO 7101+08 - PLAN AND PROFILE
TT-D1048		TRACK GUIDEWAY - STATION TRACKS - STA 0+00 TO 26+00 - PLAN AND PROFILE
TT-D1049		TRACK GUIDEWAY - STATION TRACKS - STA 26+00 TO 48+93 - PLAN AND PROFILE
TT-D1050		TRACK GUIDEWAY - STATION NB STORAGE TRACK - PLAN AND PROFILE
TT-D1051		TRACK GUIDEWAY - STATION SB STORAGE TRACK - PLAN AND PROFILE
~~TT-D1052~~		~~BNSF PLAN - STA 1002+00 TO STA 1033+00~~
~~TT-D1053~~		~~BNSF PLAN - STA 1033+00 TO STA 1063+00~~
~~TT-D1054~~		~~BNSF PLAN - STA 1063+00 TO STA 1094+00~~
~~TT-D1055~~		~~BNSF PLAN - STA 1094+00 TO STA 1129+89~~
~~TT-D1056~~		~~BNSF TOR PROFILE - STA 865+00 TO STA 916+00 - SHEET 1~~
~~TT-D1057~~		~~BNSF TOR PROFILE - STA 916+00 TO STA 972+00 - SHEET 2~~
~~TT-D1058~~		~~BNSF TOR PROFILE - STA 972+00 TO STA 1028+00 - SHEET 3~~
~~TT-D1059~~		~~BNSF TOR PROFILE - STA 1028+00 TO STA 1084+00 - SHEET 4~~
~~TT-D1060~~		~~BNSF TOR PROFILE - STA 1084+00 TO STA 1122+00 - SHEET 5~~

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. TT-B0001
SCALE NO SCALE
SHEET NO.

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.

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

T·Y·LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. TT-B0002
SCALE NO SCALE
SHEET NO.

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
COND	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

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

REV	DATE	BY	CHK	APP	DESCRIPTION

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. TT-B0003
SCALE NO SCALE
SHEET NO.

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

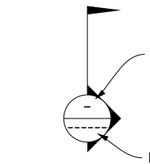
Y

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



RETAINING WALL

EXISTING RAILROAD TRACK

TRACK (PLAN)

TRACK (ELEVATION)

TRACK TO BE RELOCATED

TRACK TO BE REMOVED

REMOVE BASE & SURFACING

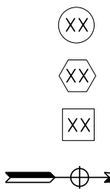
DIRECTION OF FLOW

WATER ELEVATION

POINT OF MINIMUM VERTICAL CLEARANCE

DIRECTION OF TRAVEL

GROUND LEVEL



CURVE DATA (ALIGNMENTS,ROADWAYS)

CURVE DATA (STRUCTURES)

LINE DATA (ALIGNMENTS,ROADWAYS)

NORTH ARROW

R/W AND EASEMENT LEGEND

GUIDEWAY RIGHT OF WAY

GUIDEWAY EASEMENT

BNSF EASEMENT

ROADWAY EASEMENT

EXISTING PARCEL BOUNDARY (GIS)

REV	DATE	BY	CHK	APP	DESCRIPTION

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

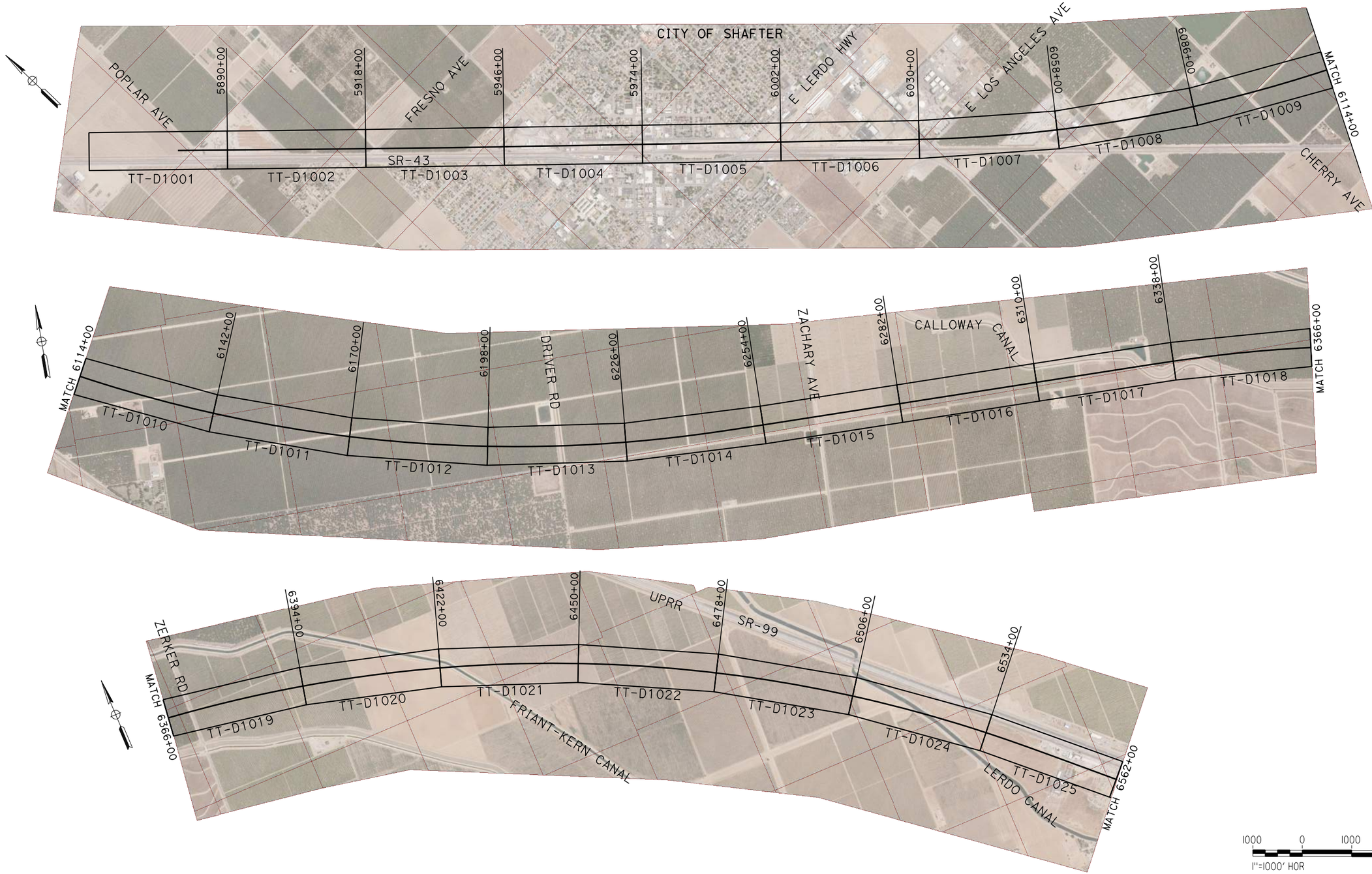
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



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

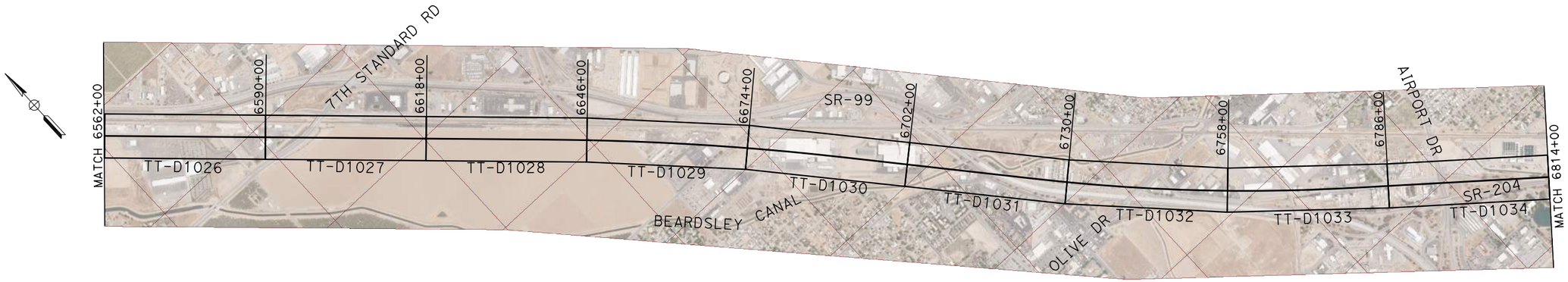
RECORD SET
PEPD DESIGN SUBMISSION

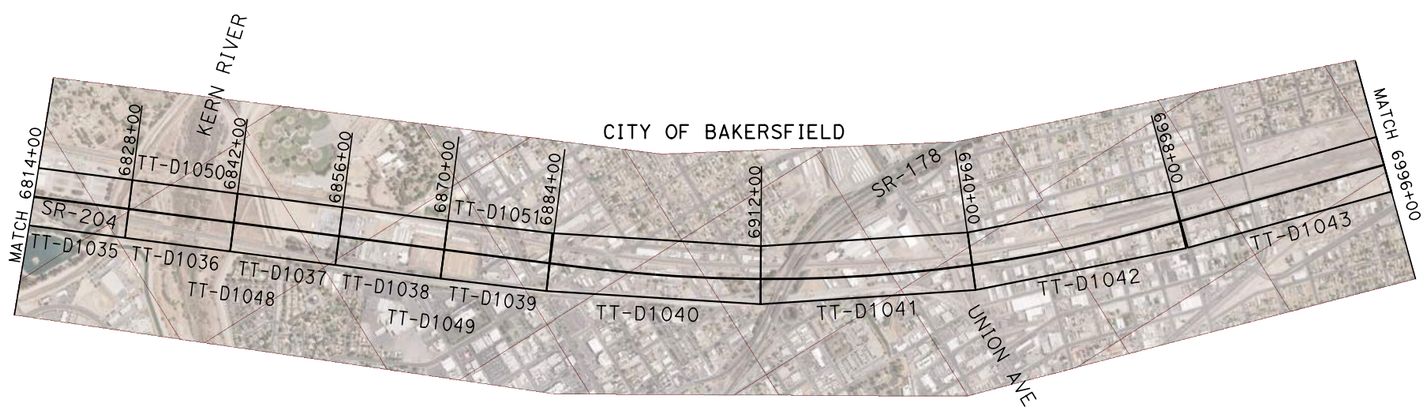
T·Y LIN INTERNATIONAL

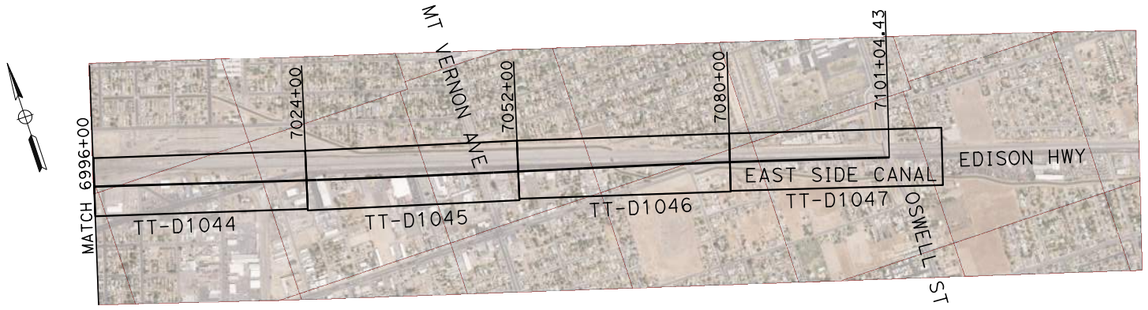
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.







1000 0 1000 2000

1"=1000' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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	S44°17'09.7"E	3060.451	5880+00.00	2378880.686	6175820.232							
	TS			5910+60.45	2376689.822	6177957.164			HALF-SINE	1150.00			
101	SC			5922+10.45	2375866.972	6178760.543	350000.00	1579.08			0.00	0.71	250
	CS			5937+89.53	2374740.872	6179867.521			HALF-SINE	1150.00			
	ST	S44°43'58.0"E	6772.408	5949+39.53	2373923.521	6180676.494							
	TS			6017+11.94	2369112.423	6185442.924			HALF-SINE	2500.00			
102	SC			6042+11.94	2367360.092	6187225.668	28016.50	19228.08			6.00	2.92	250
	CS			6234+40.03	2359978.689	6204573.513			HALF-SINE	2500.00			
	ST	S89°10'05.9"E	6474.090	6259+40.03	2359909.248	6207072.317							
	TS			6324+14.12	2359815.273	6213545.725			HALF-SINE	2500.00			
103	SC			6349+14.12	2359745.812	6216044.528	28000.00	18188.38			6.00	2.93	250
	CS			6531+02.49	2353051.837	6232613.704			HALF-SINE	2500.00			
	ST	S46°50'02.8"E	7755.053	6556+02.49	2351366.067	6234459.515							
	TS			6633+57.55	2346060.735	6240115.867			HALF-SINE	1350.00			
104	SC			6647+07.55	2345133.082	6241096.645	48000.00	3615.96			3.25	1.96	250
	CS			6683+23.50	2342526.917	6243602.012			HALF-SINE	1350.00			
	ST	S40°54'23.2"E	2071.612	6696+73.50	2341510.329	6244490.277							
	TS			6717+45.12	2339944.647	6245846.822			HALF-SINE	1600.00			
105	SC			6733+45.12	2338743.256	6246903.473	32000.00	3740.45			5.00	2.81	250
	CS			6770+85.57	2336131.769	6249578.393			HALF-SINE	1600.00			
	ST	S50°28'06.6"E	9121.617	6786+85.57	2335104.250	6250804.792							
	TS			6878+07.18	2329298.318	6257840.064			HALF-SINE	2000.00			
106	SC			6898+07.18	2328049.114	6259401.638	19516.50	5759.88			7.00	2.91	220
	CS			6955+67.06	2325342.363	6264462.228			HALF-SINE	2000.00			
	ST	S73°14'58.7"E	3821.897	6975+67.06	2324736.921	6266368.131							
	TS			7013+88.96	2323635.442	6270027.863			HALF-SINE	1150.00			
107	SC			7025+38.96	2323305.404	6271129.486	135000.00	1185.16			0.00	1.85	250
	CS			7037+24.12	2322973.666	6272267.270			HALF-SINE	1150.00			
	ST	S74°14'26.6"E	1181.305	7048+74.12	2322659.929	6273373.646							
	TS			7060+55.43	2322339.091	6274510.547			HALF-SINE	1150.00			
108	SC			7072+05.43	2322025.178	6275616.873	120000.00	1182.15			1.00	1.08	250
	CS			7083+87.57	2321693.073	6276751.406			HALF-SINE	1150.00			
	ST	S73°07'37.9"E	566.86	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	S44°16'52.2"E	25.765	869+00.00	2379573.561	6174955.191							
	TS			869+25.77	2379555.115	6174973.179			CLOTHOID	100.00			
B-1	SC			870+25.77	2379483.422	6175042.893	0°30'0"	162.78			0.50	1.68	79
	CS			871+88.55	2379365.587	6175155.200			CLOTHOID	100.00			
	ST	S42°58'02.1"E	530.016	872+88.55	2379292.512	6175223.464							
	TS			878+18.56	2378904.677	6175584.713			CLOTHOID	100.00			
B-2	SC			879+18.56	2378831.602	6175652.977	0°30'0"	163.02			0.50	1.68	79
	CS			880+81.58	2378713.598	6175765.448			CLOTHOID	100.00			
	ST	S44°16'56.4"E	22775.779	881+81.58	2378641.906	6175835.163							
	TS			1109+57.36	2362336.544	6191737.089			CLOTHOID	100.00			
B-3	SC			1110+57.36	2362265.055	6191807.013	0°30'0"	160.26			0.50	1.68	79
	CS			1112+17.62	2362151.602	6191920.201			CLOTHOID	100.00			
	ST	S45°35'01.1"E	511.964	1113+17.62	2362081.511	6191991.526							
	TS			1118+29.59	2361723.204	6192357.208			CLOTHOID	100.00			
B-4	SC			1119+29.59	2361653.113	6192428.534	0°30'0"	159.63			0.50	1.68	79
	CS			1120+89.22	2361540.108	6192541.282			CLOTHOID	100.00			
	ST	S44°17'07.7"E	10.780	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

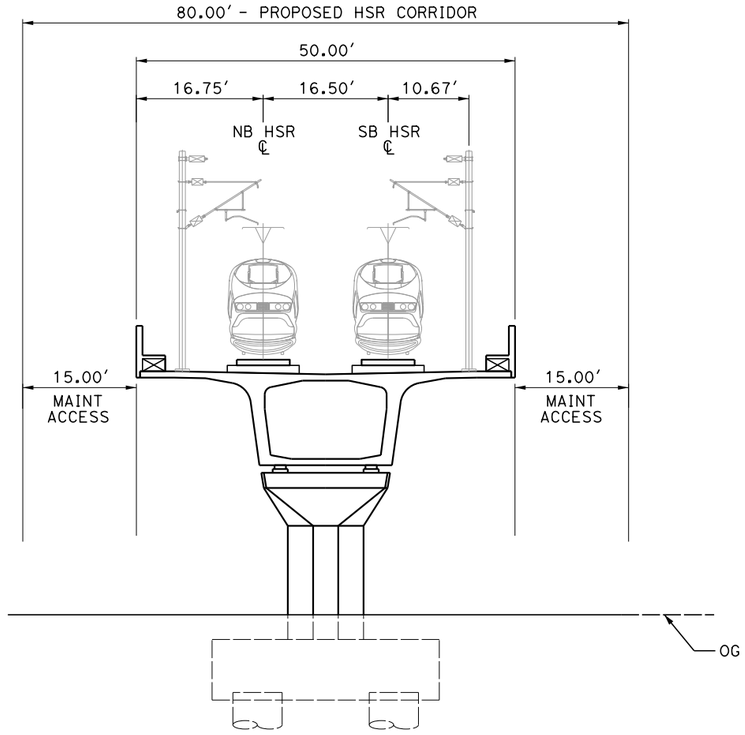
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

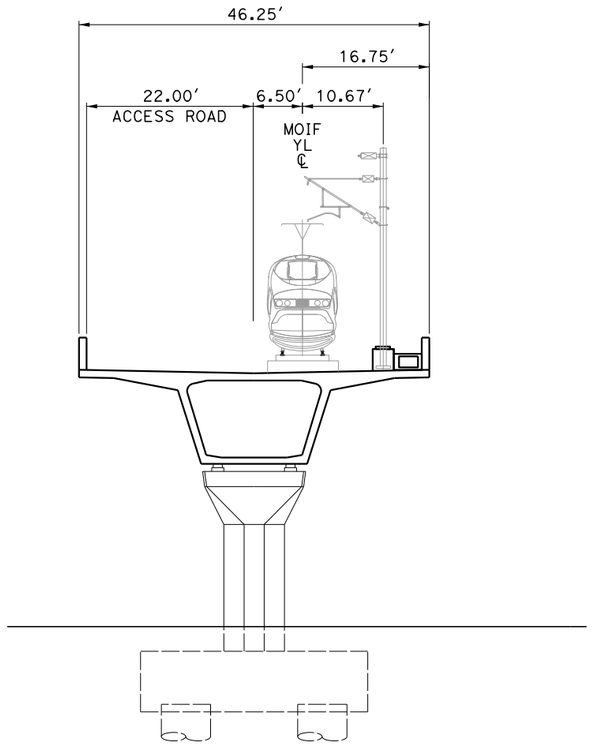
CONTRACT NO. HSR13-44
DRAWING NO. TT-B0007
SCALE AS SHOWN
SHEET NO.

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.



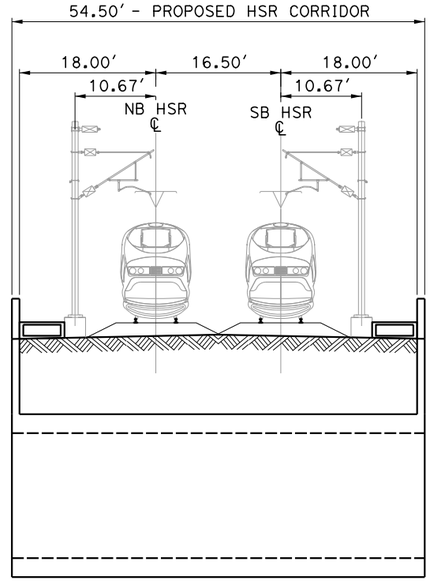
SECTION 9

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



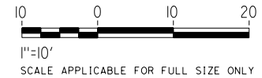
SECTION 10

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



SCALE APPLICABLE FOR FULL SIZE ONLY

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

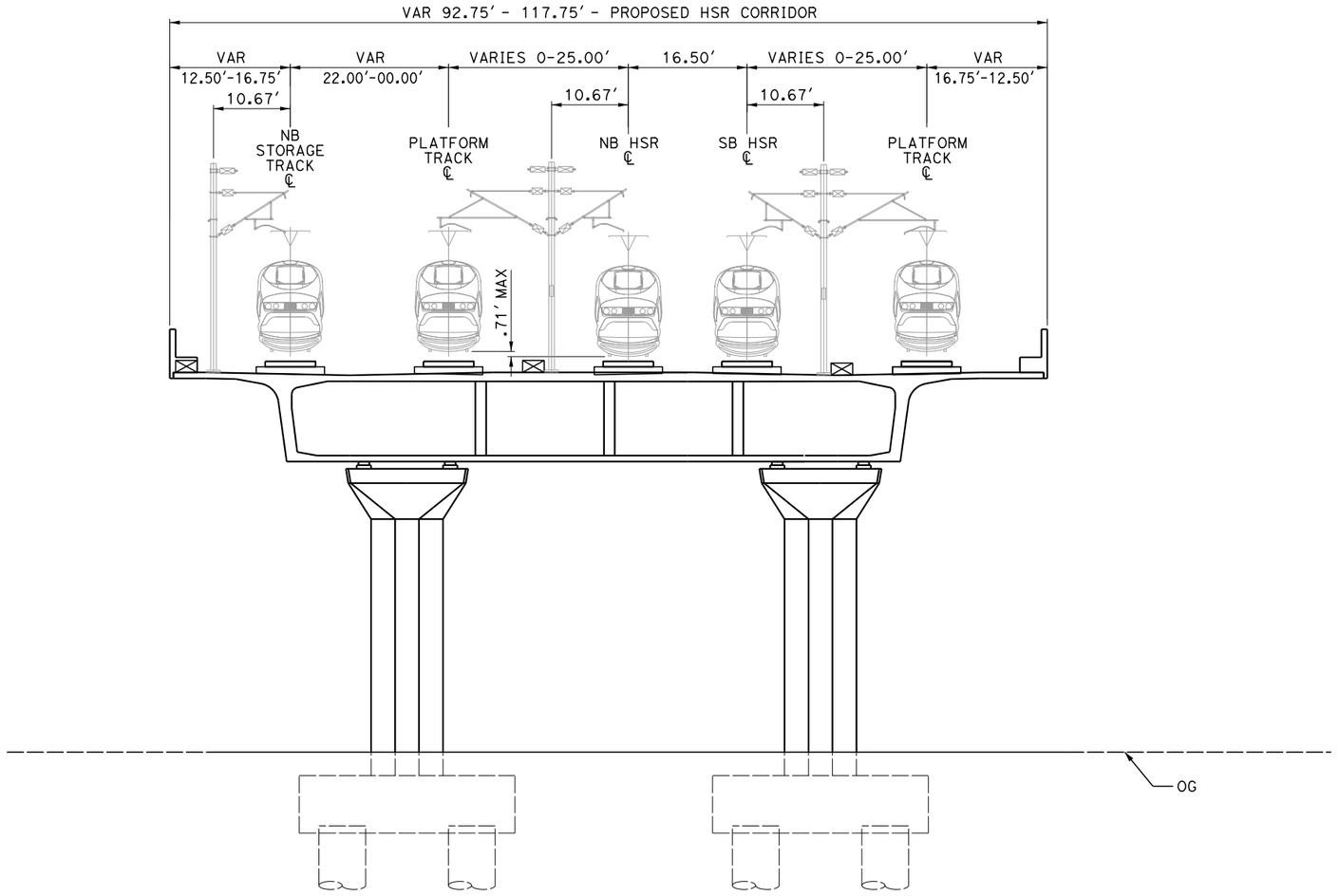
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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

10 0 10 20
1"=10′
SCALE APPLICABLE FOR FULL SIZE ONLY

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

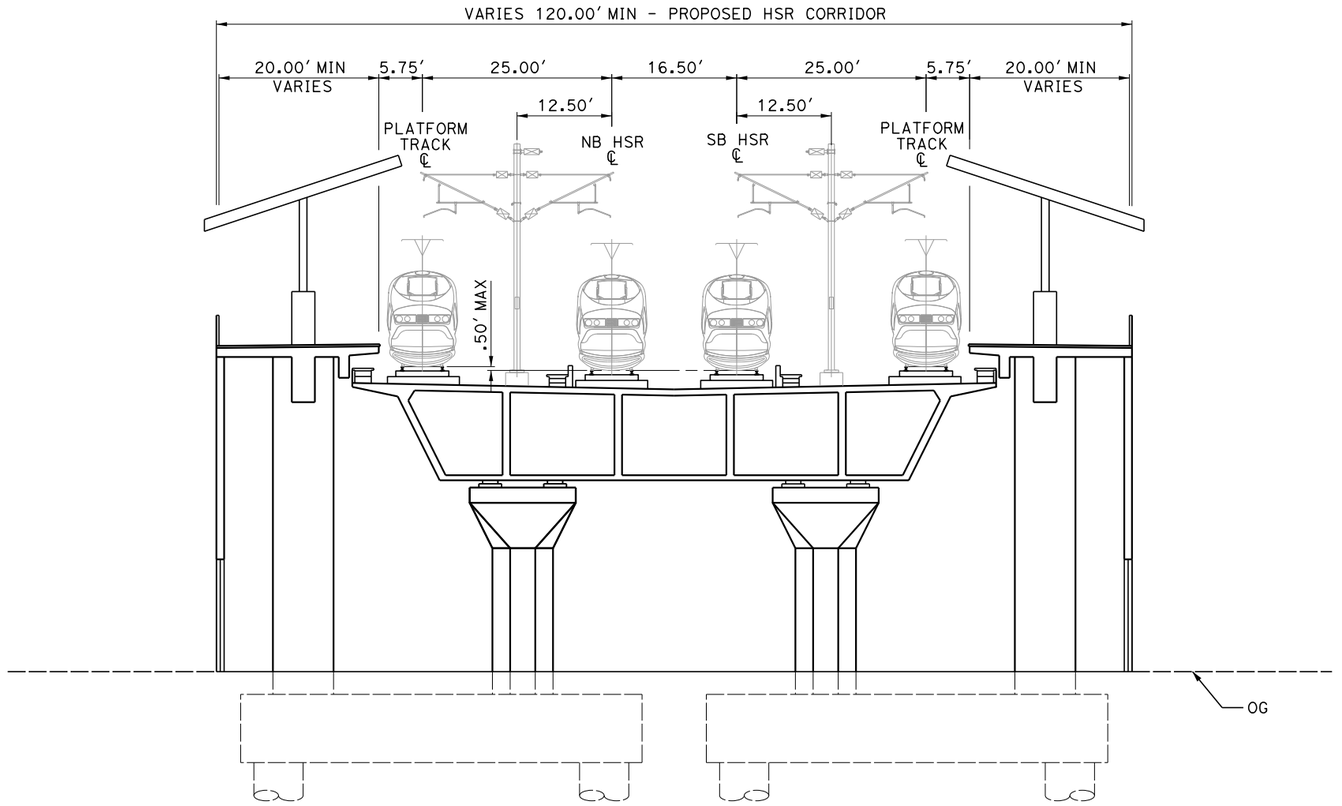
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY

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

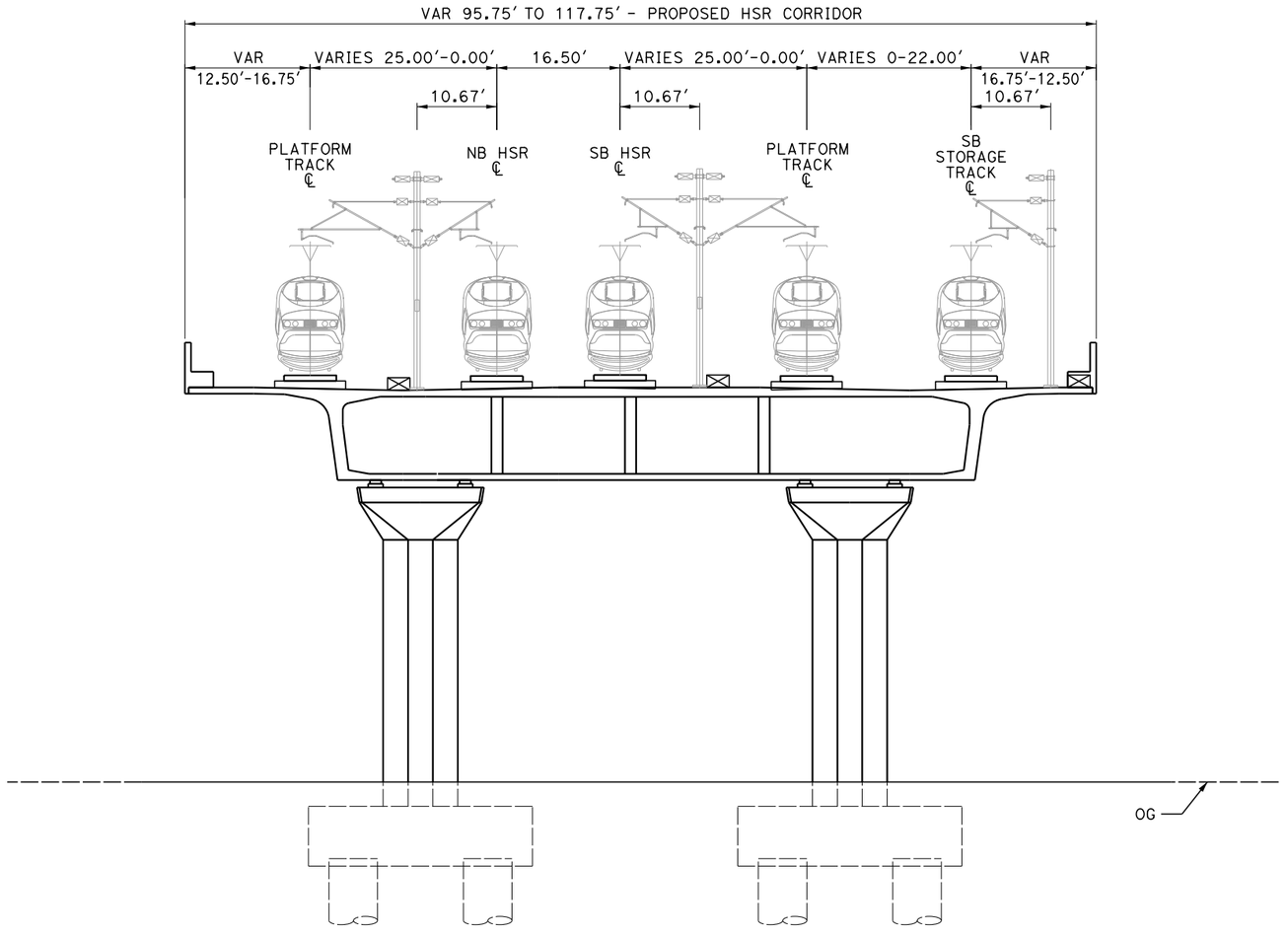
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY

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

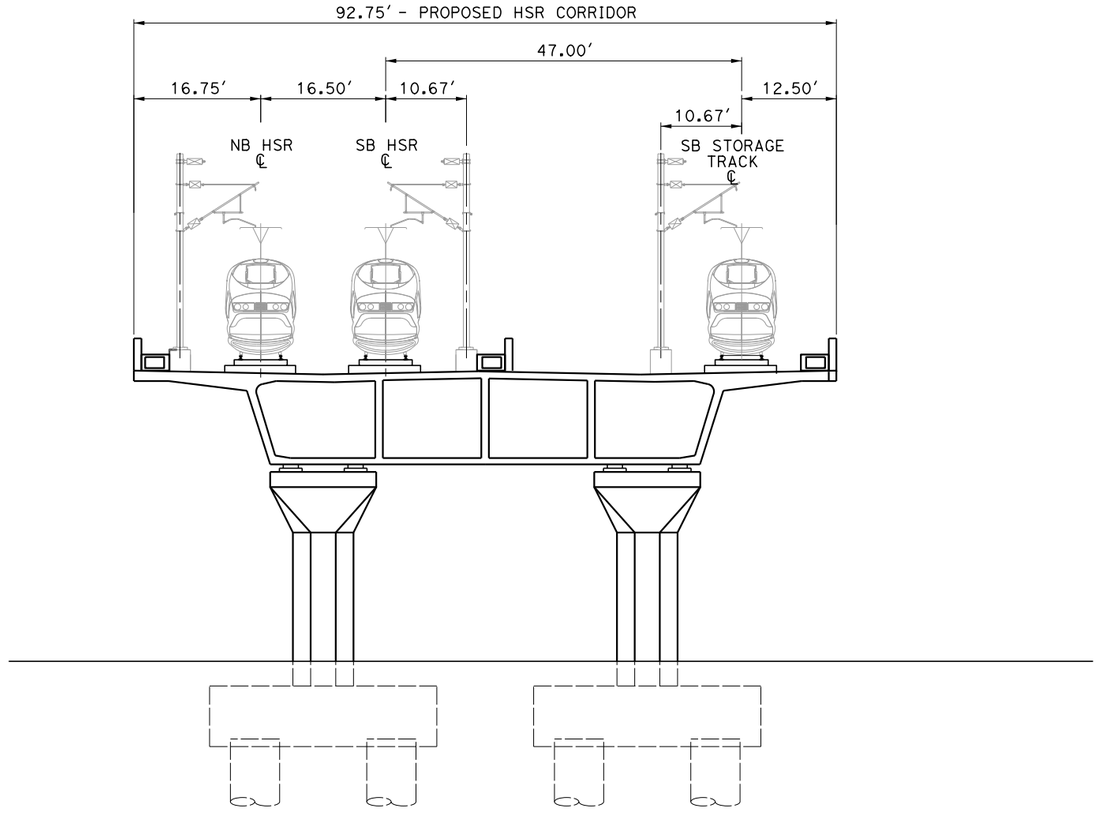
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY

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

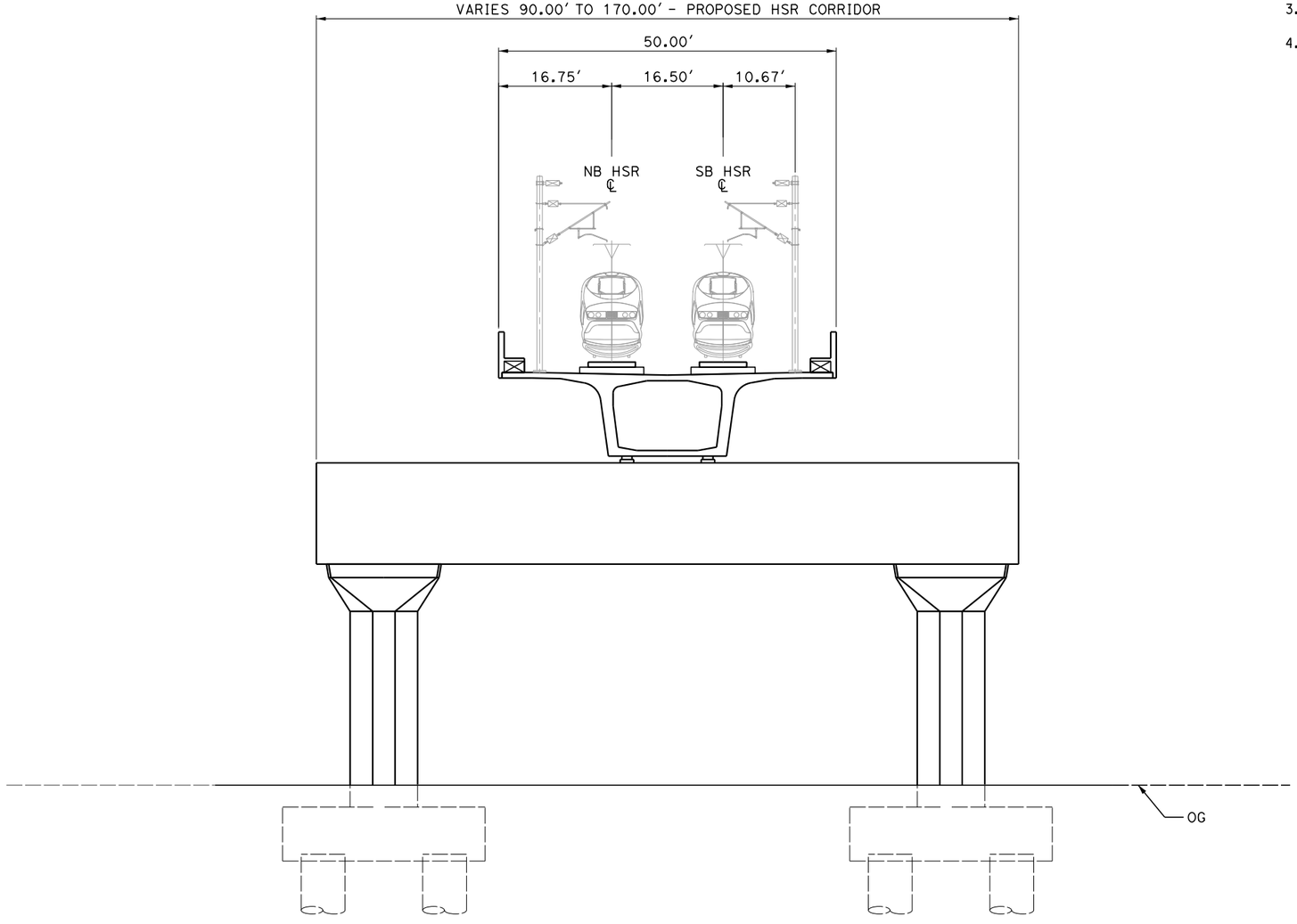
T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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 ℄ 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

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY

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

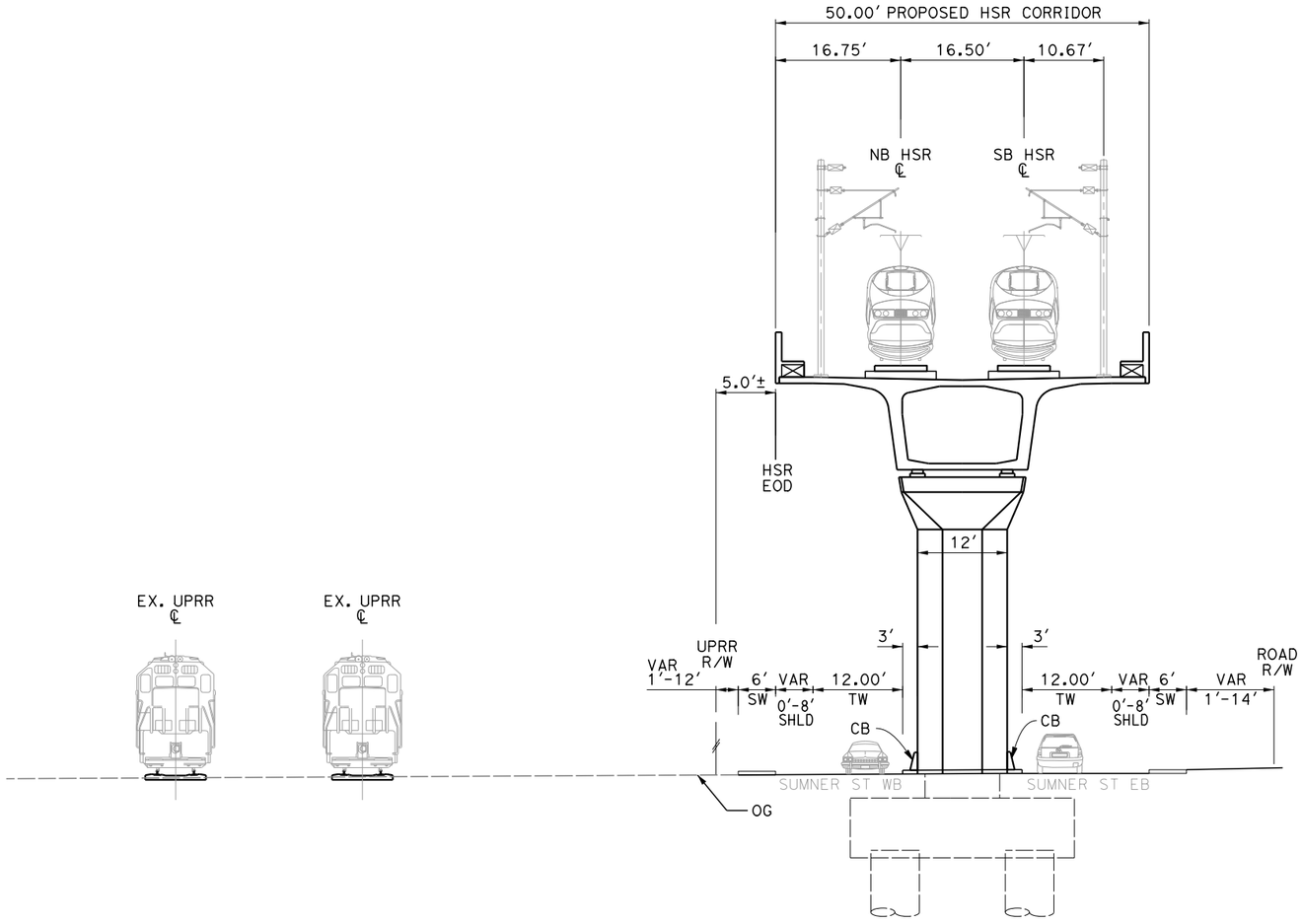
T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY

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

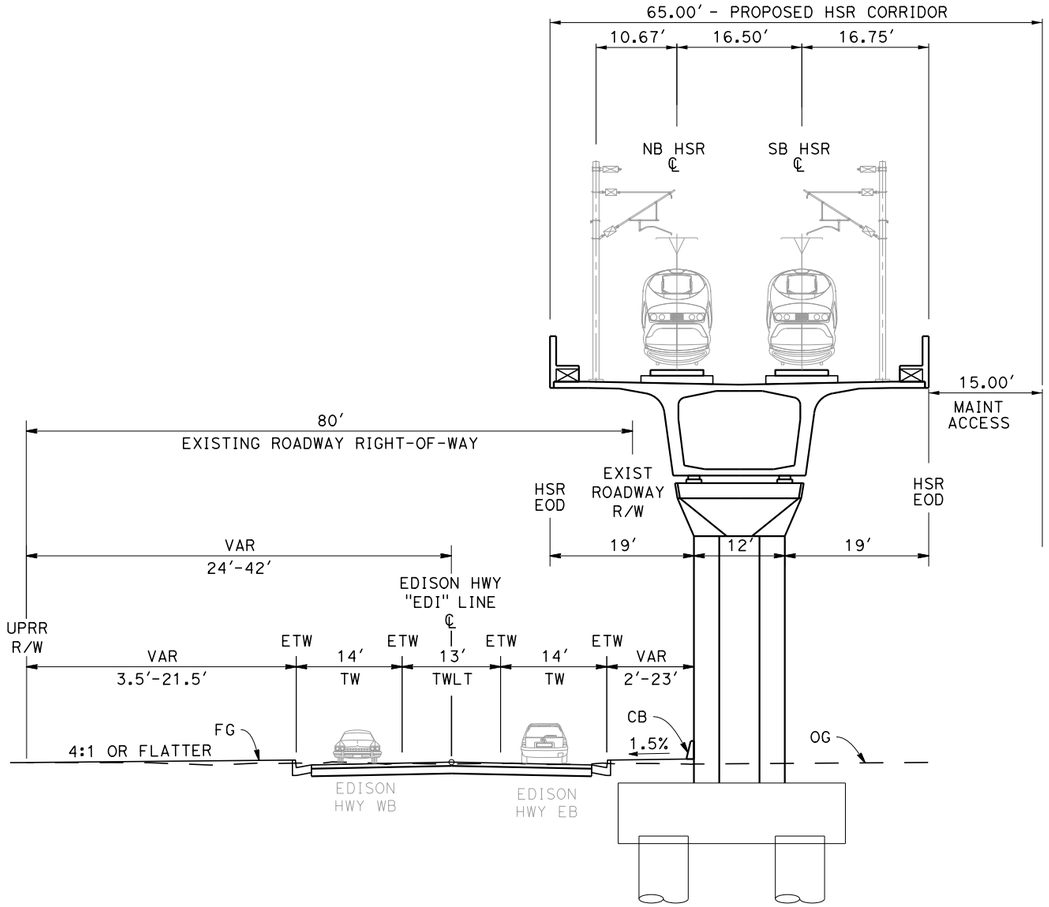
T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY

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

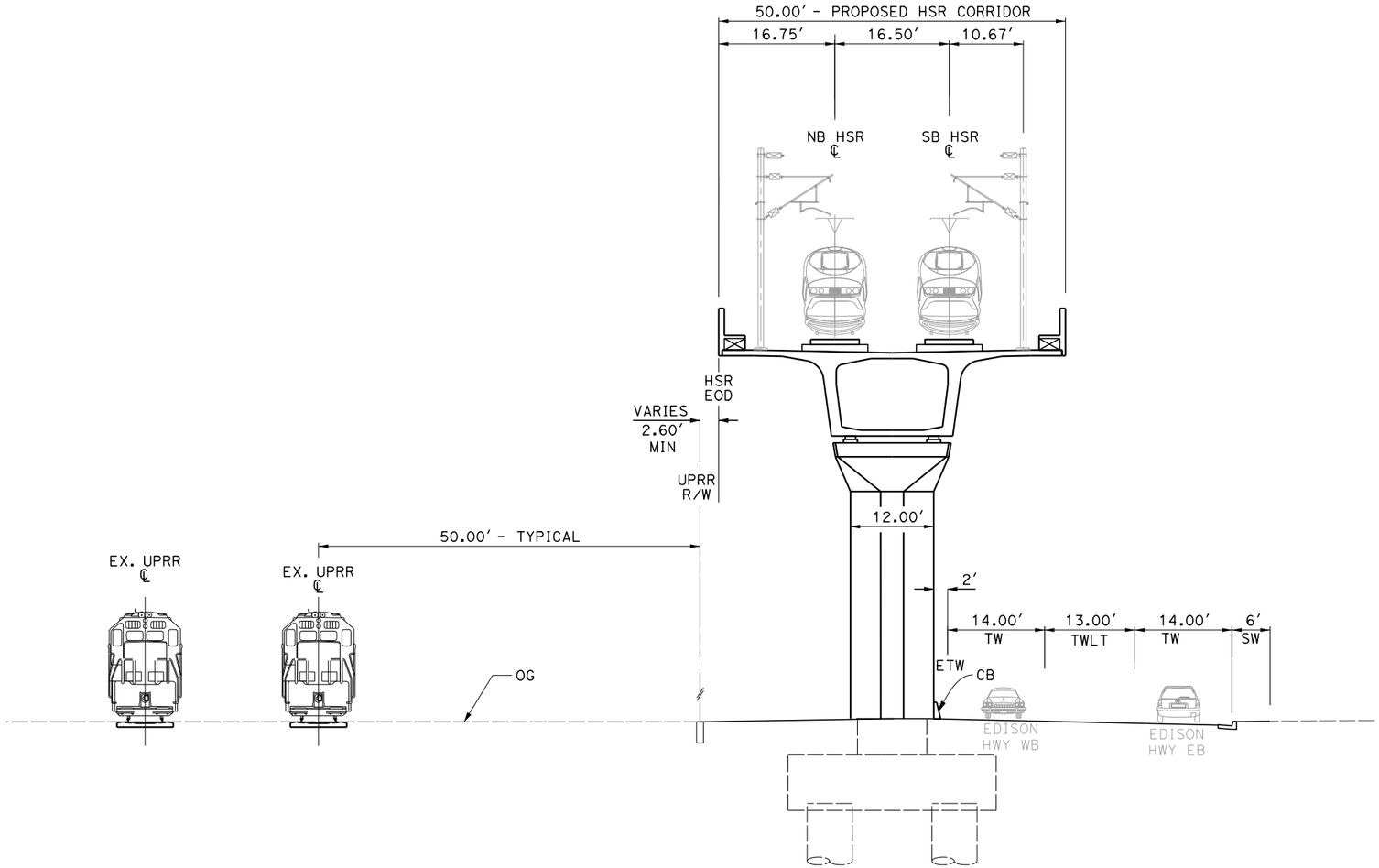
T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY

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

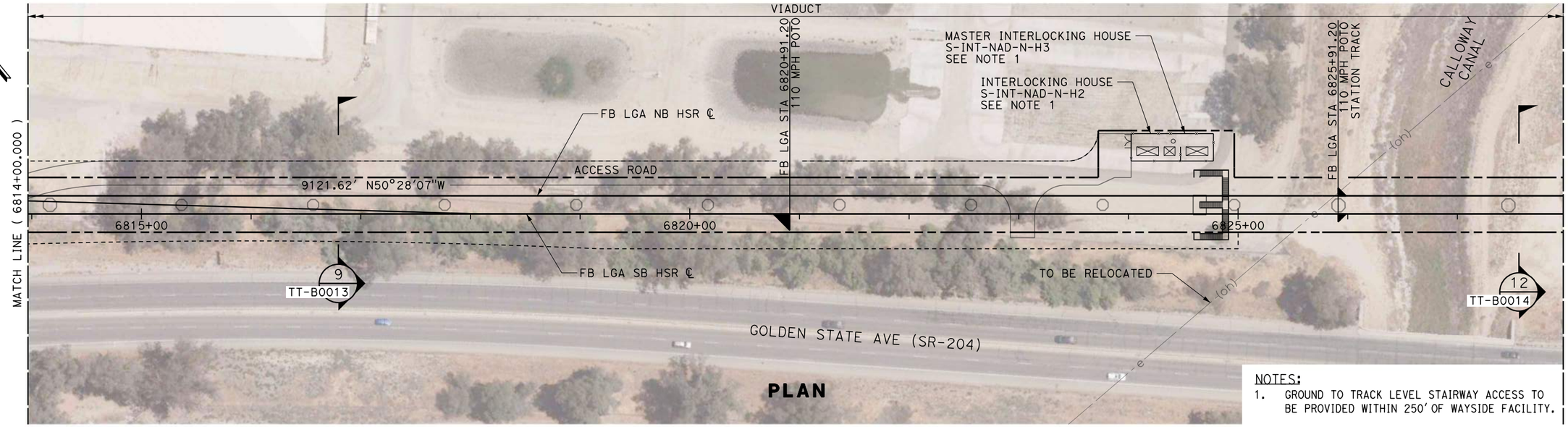
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

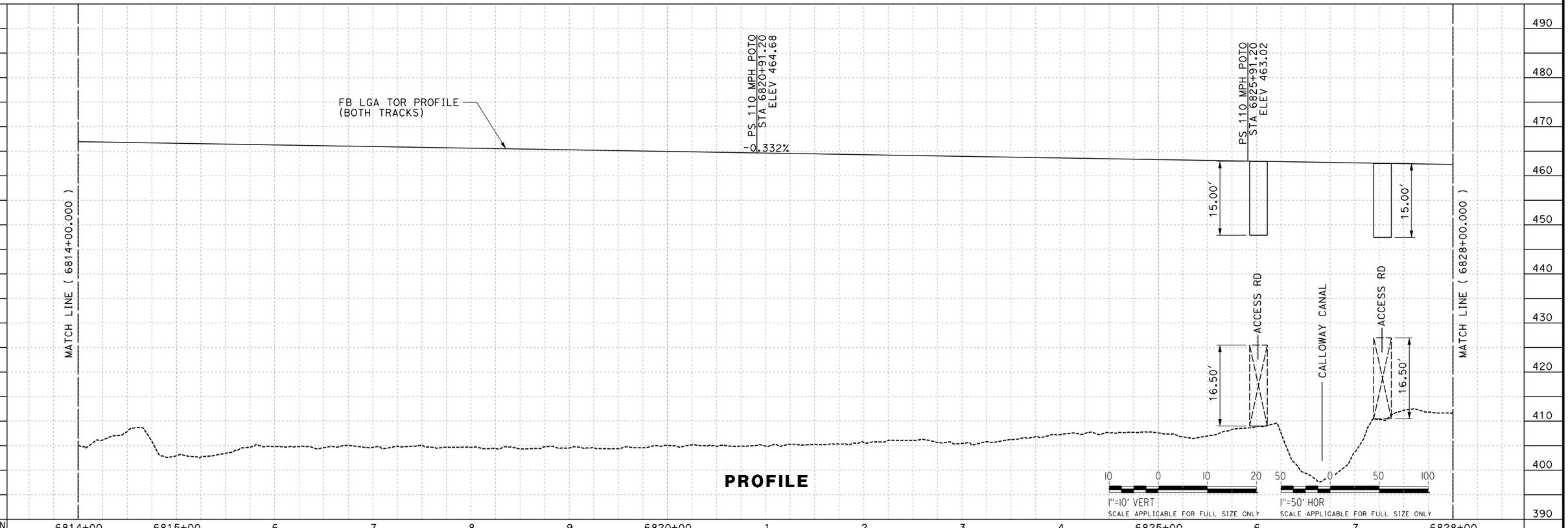
CONTRACT NO. HSR13-44
DRAWING NO. TT-B0021
SCALE AS SHOWN
SHEET NO.



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

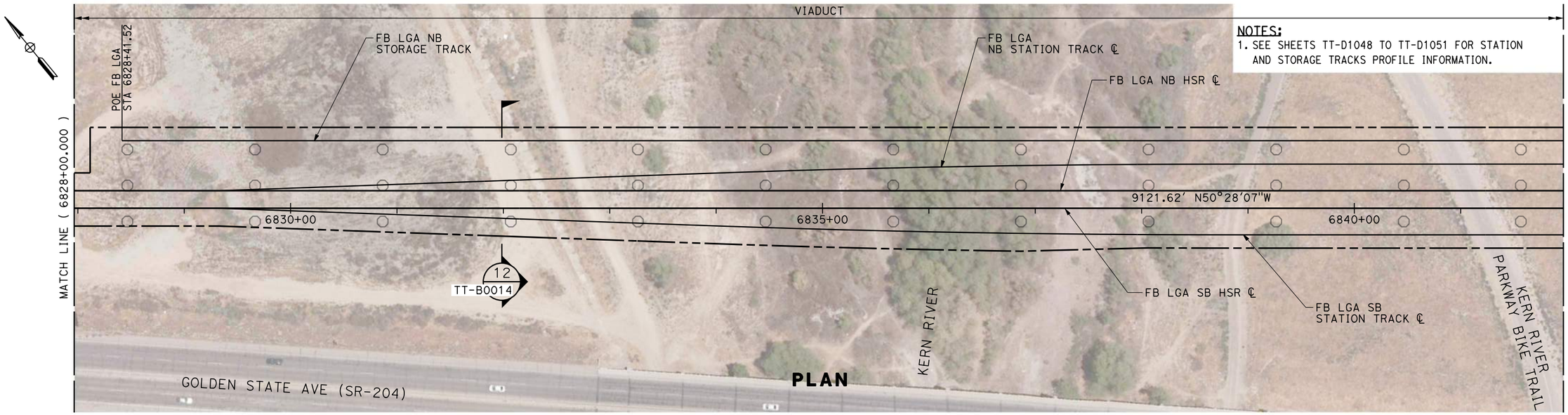
RECORD SET
PEPD DESIGN
SUBMISSION

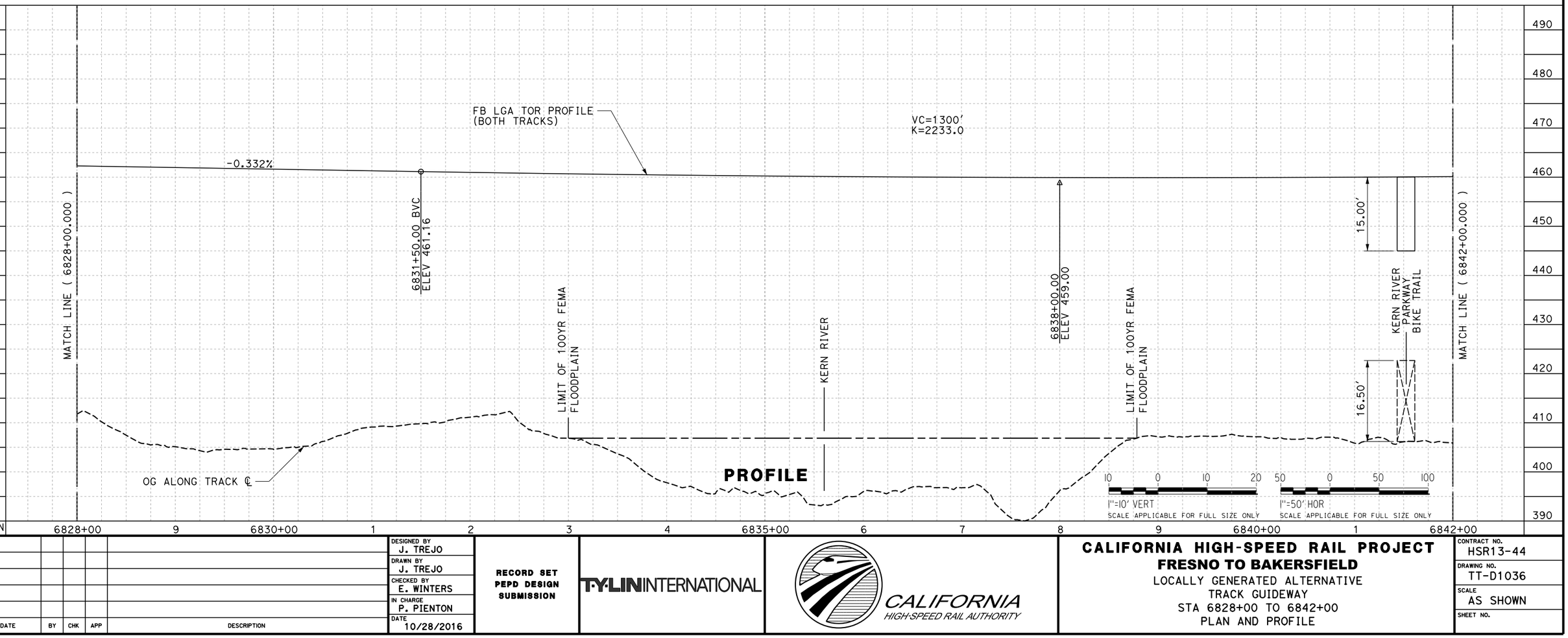
T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.





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

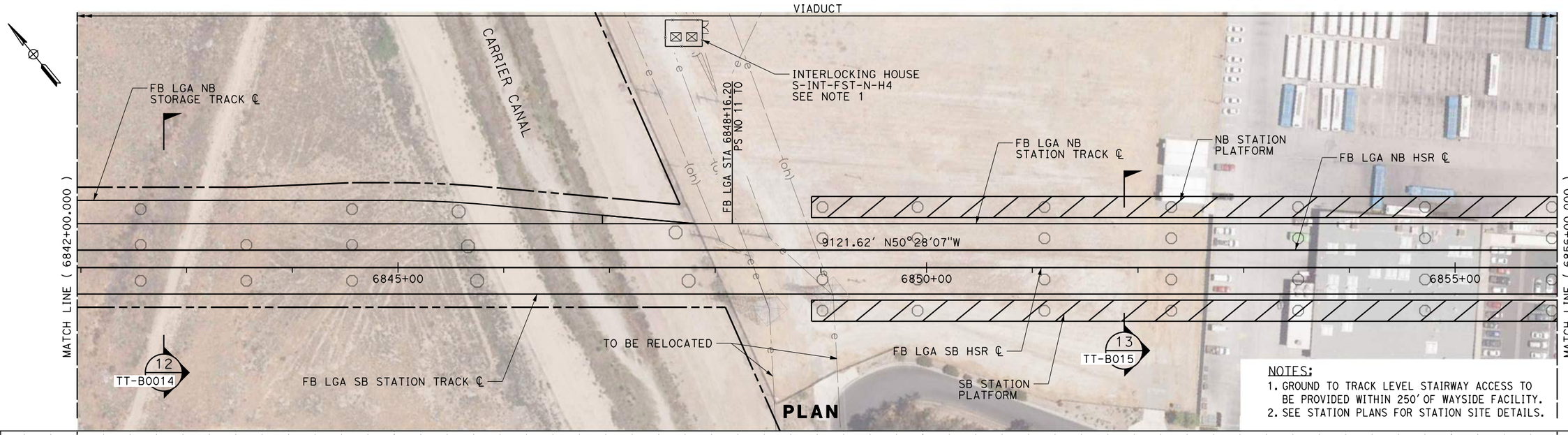
RECORD SET PEPD DESIGN SUBMISSION

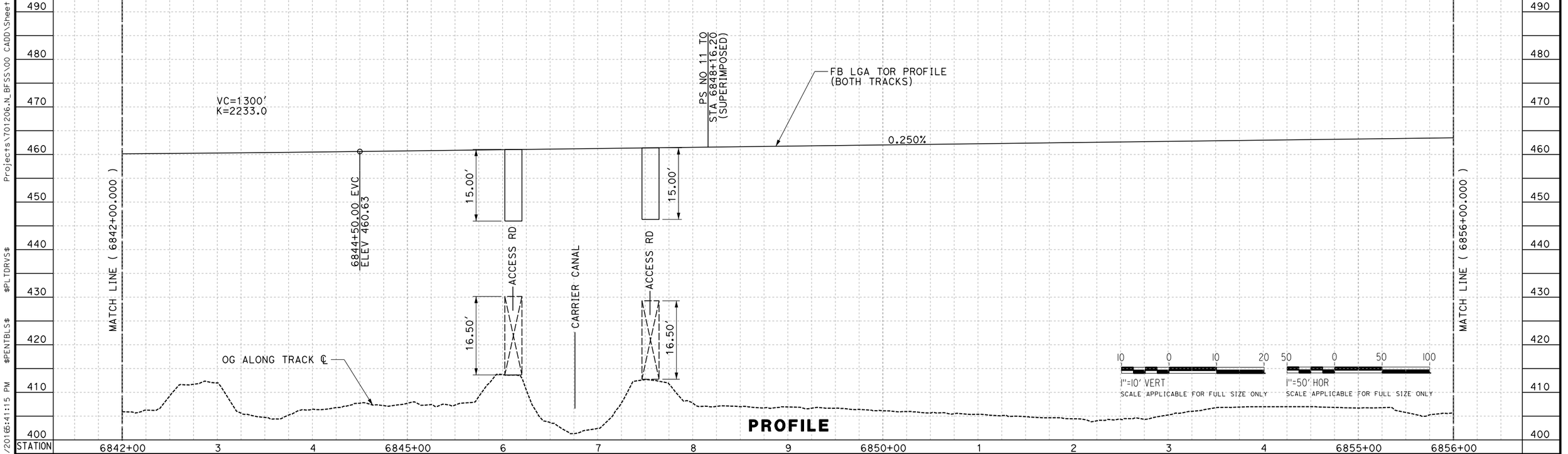
T.Y. LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1036
SCALE AS SHOWN
SHEET NO.





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

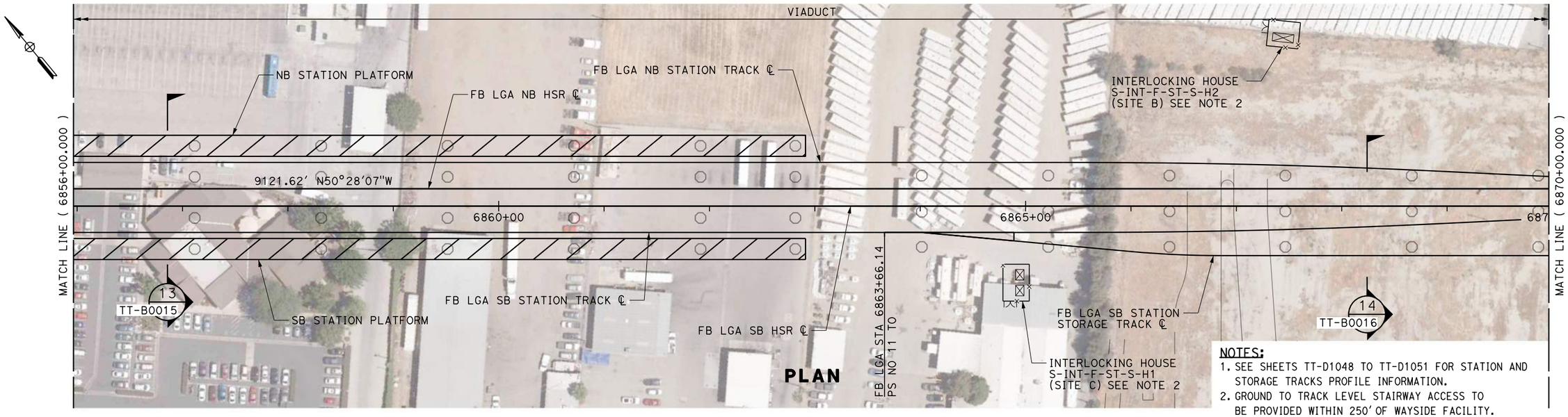
RECORD SET
PEPD DESIGN
SUBMISSION

T·Y·LIN INTERNATIONAL

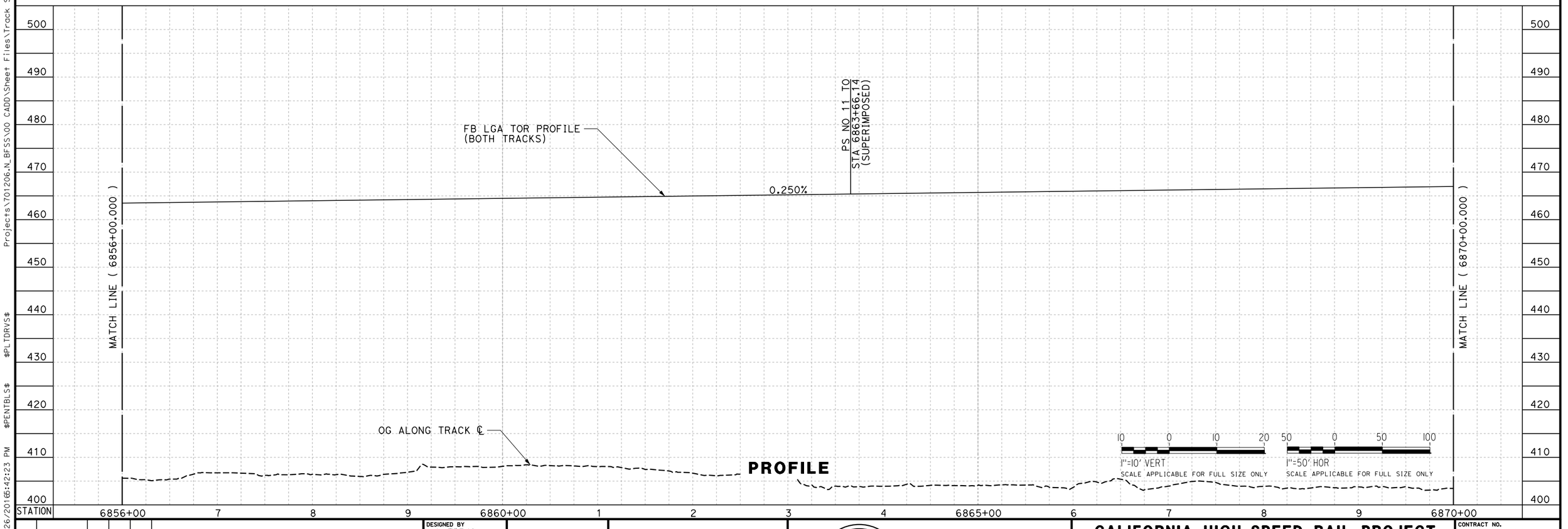
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
STA 6842+00 TO 6856+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1037
SCALE AS SHOWN
SHEET NO.



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.



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

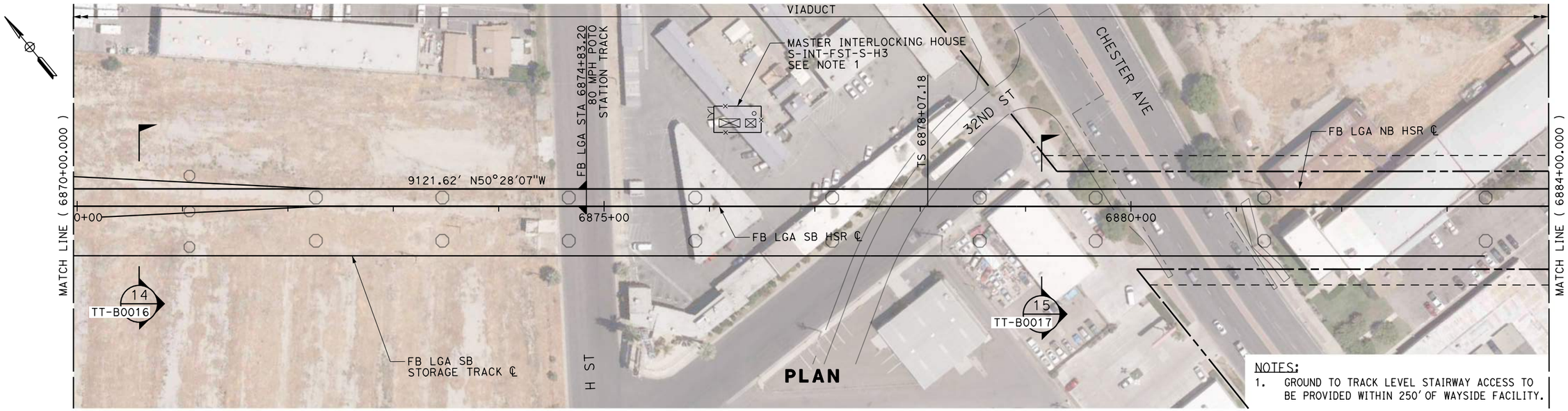
RECORD SET
PEPD DESIGN SUBMISSION

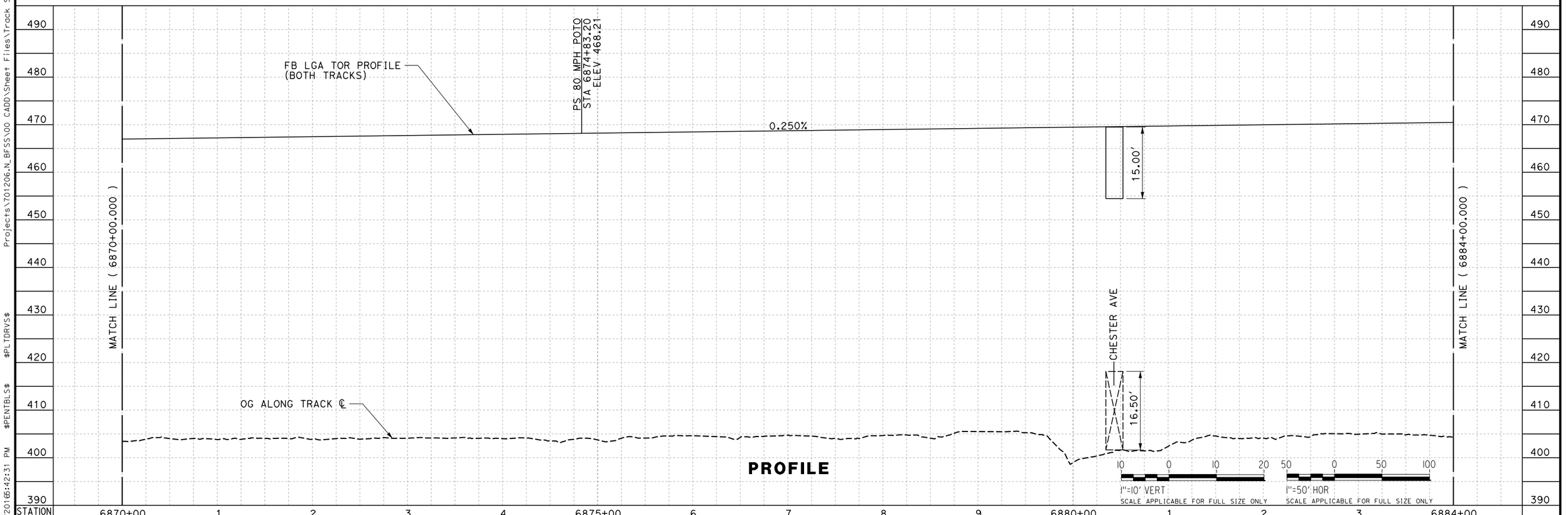
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.





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

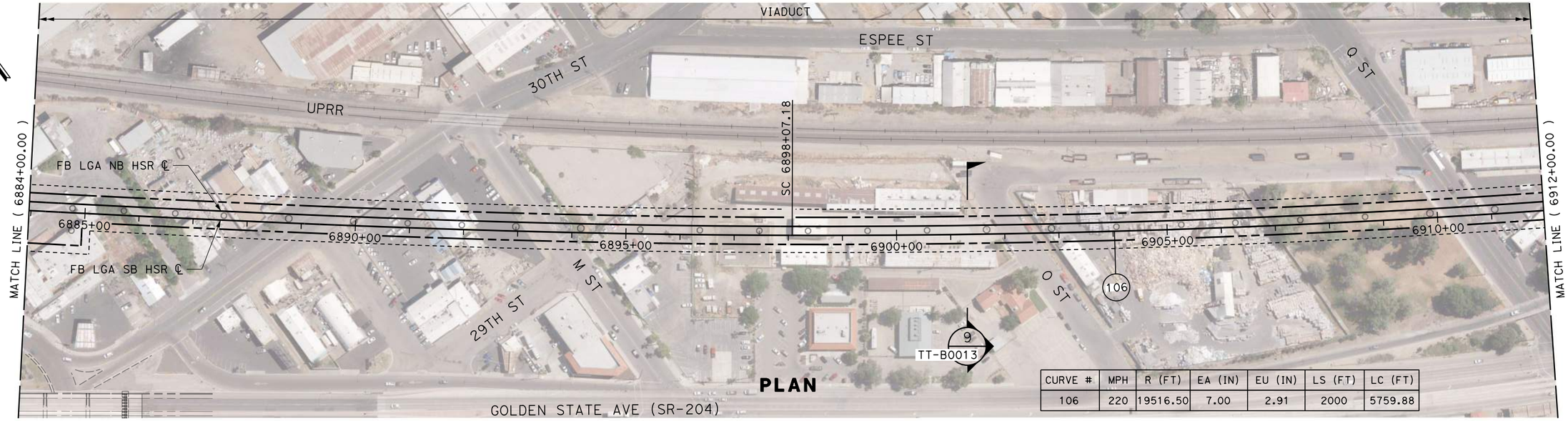
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

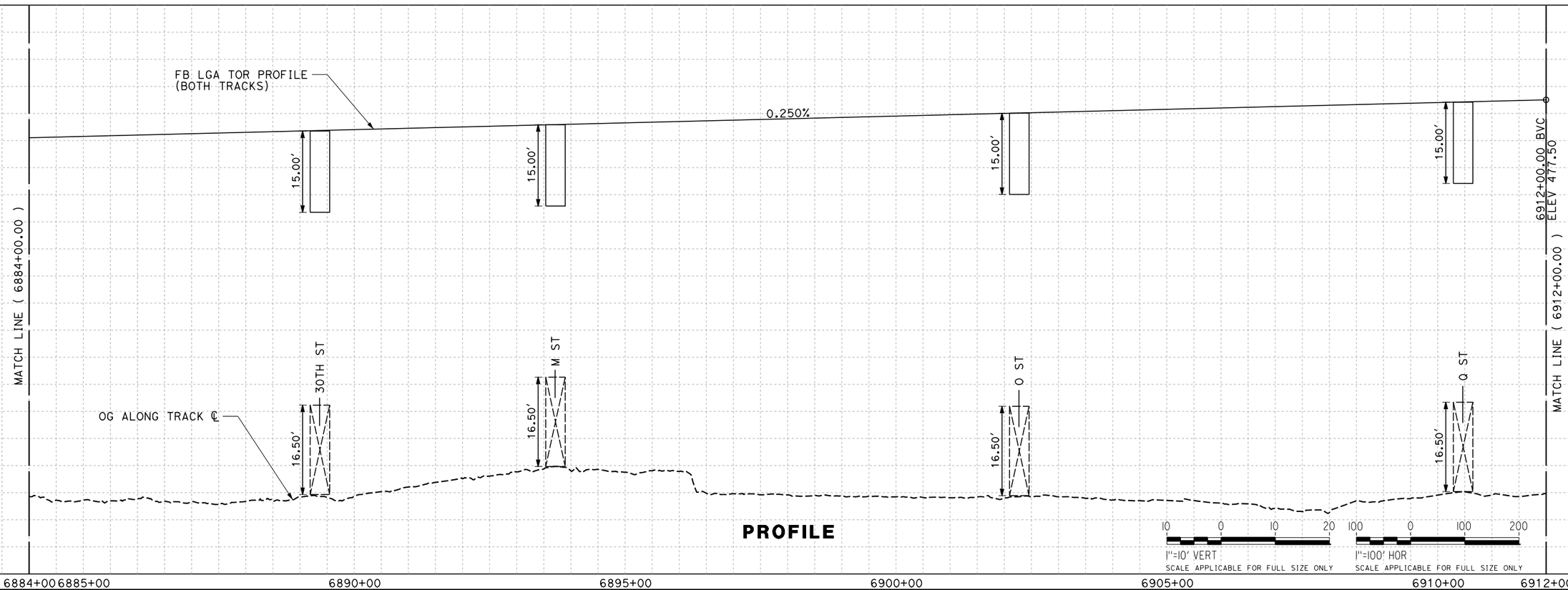
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
STA 6870+00 TO 6884+00
PLAN AND PROFILE

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



PLAN

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
106	220	19516.50	7.00	2.91	2000	5759.88



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

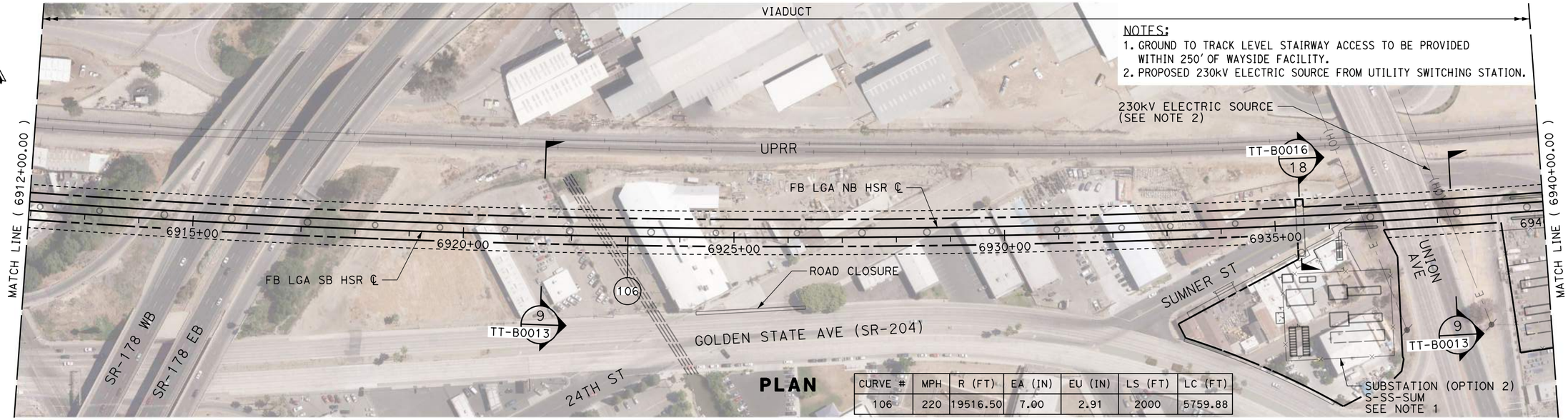
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

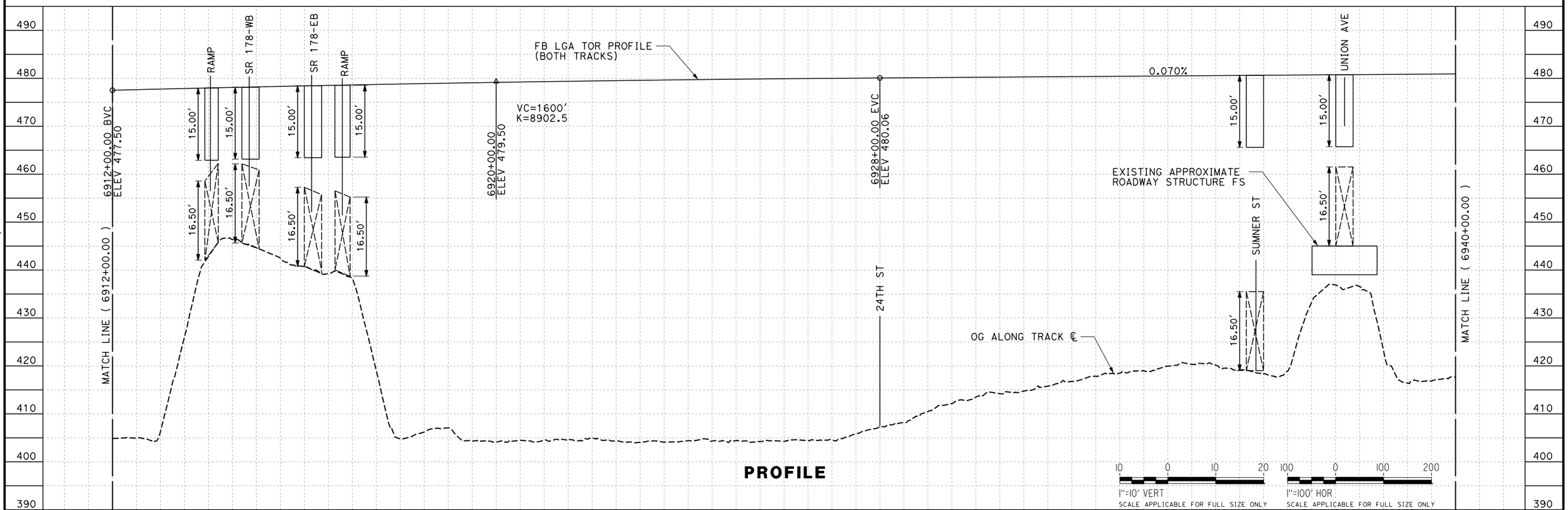
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
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.



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
106	220	19516.50	7.00	2.91	2000	5759.88



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

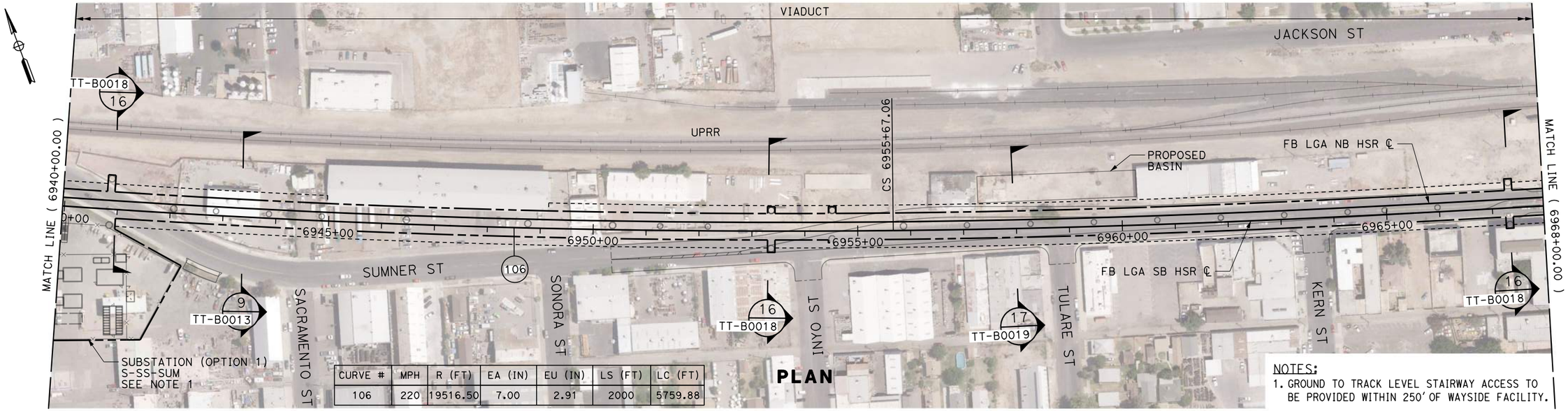
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

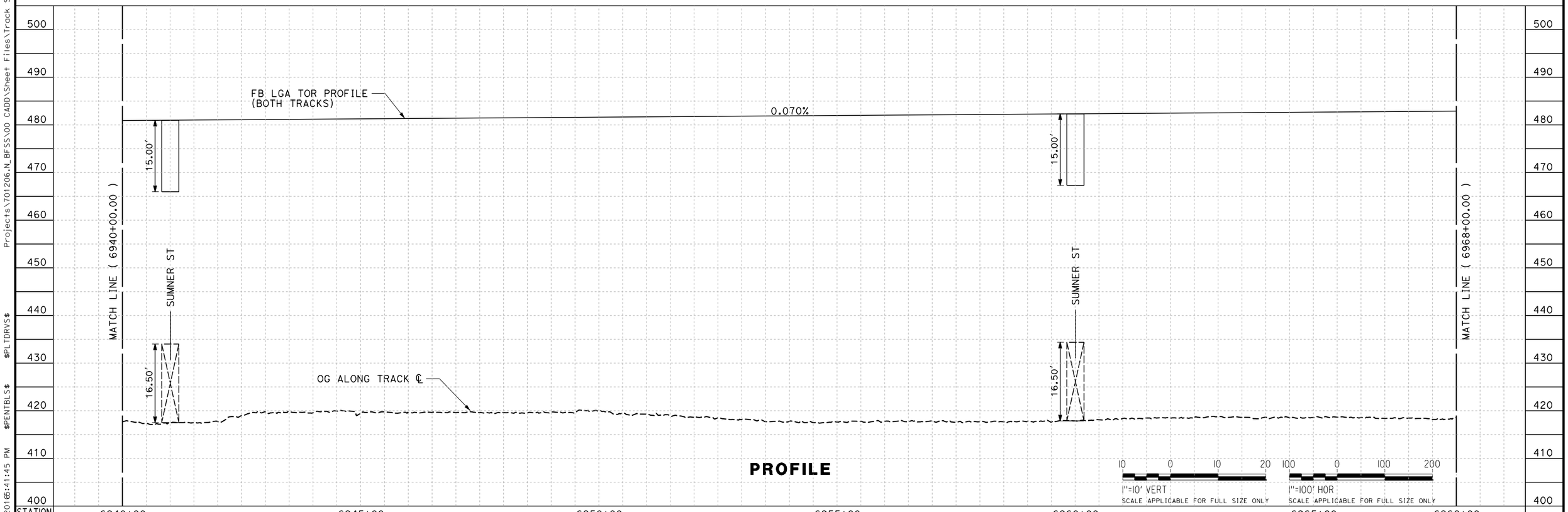
CONTRACT NO. HSR13-44
DRAWING NO. TT-D1041
SCALE AS SHOWN
SHEET NO.



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
106	220	19516.50	7.00	2.91	2000	5759.88

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

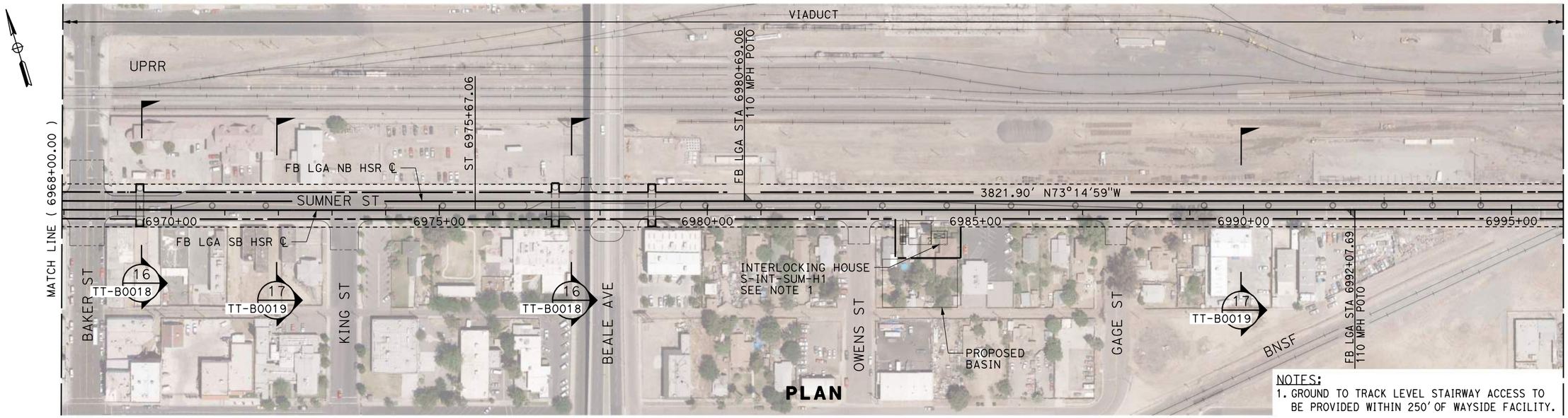
RECORD SET
PEPD DESIGN
SUBMISSION

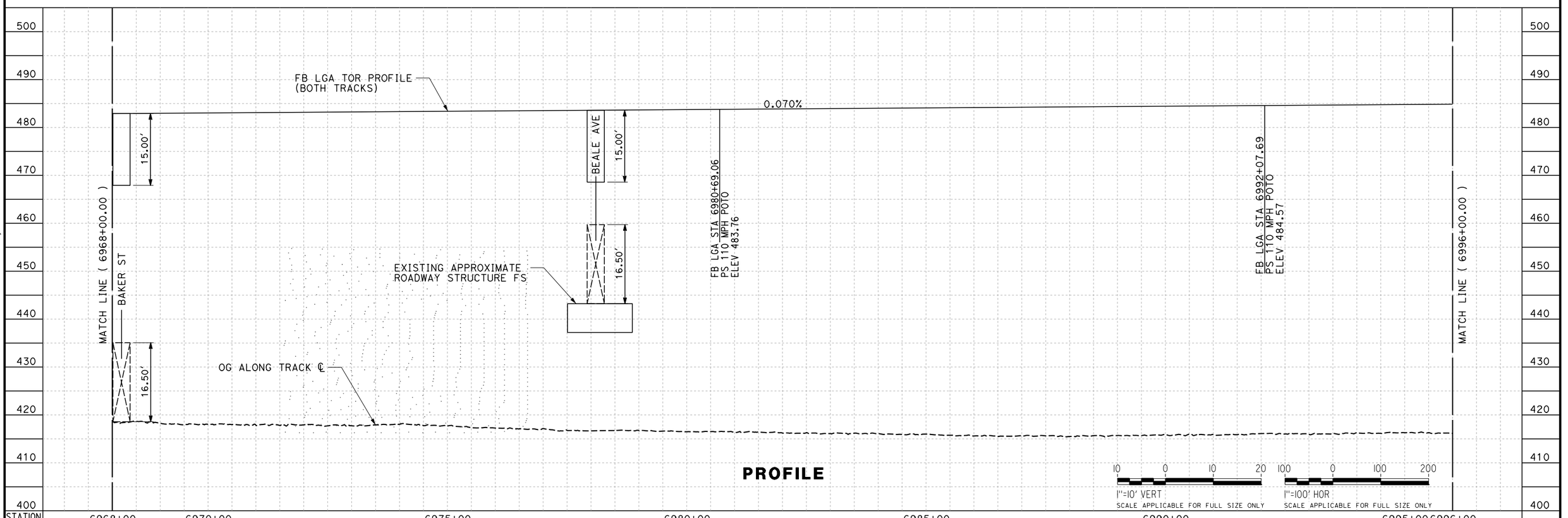
T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
STA 6940+00 TO 6968+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1042
SCALE AS SHOWN
SHEET NO.





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

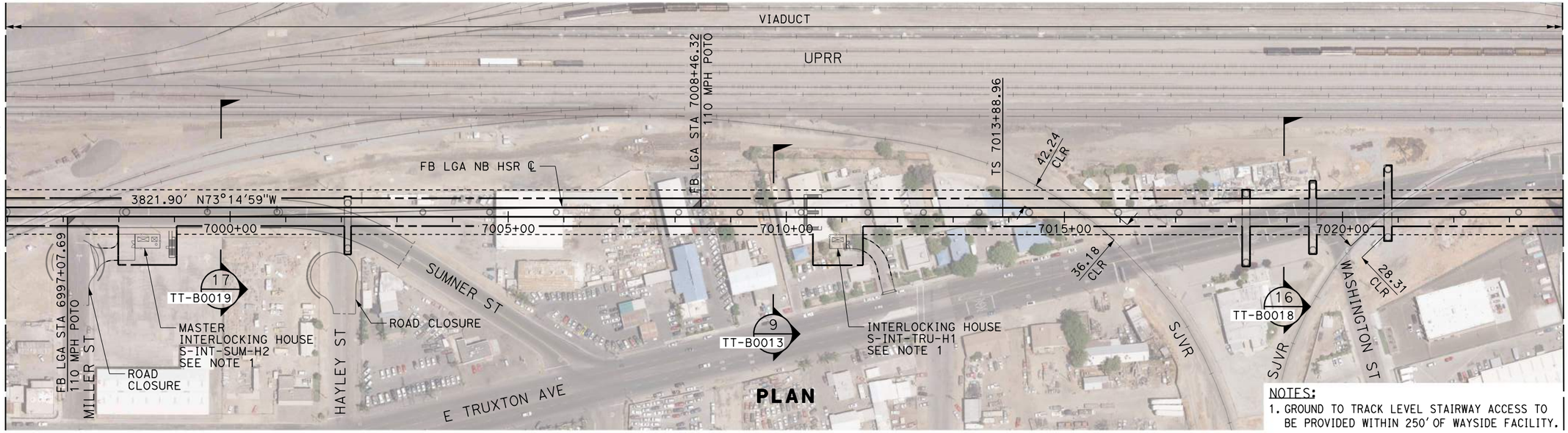
RECORD SET
PEPD DESIGN
SUBMISSION

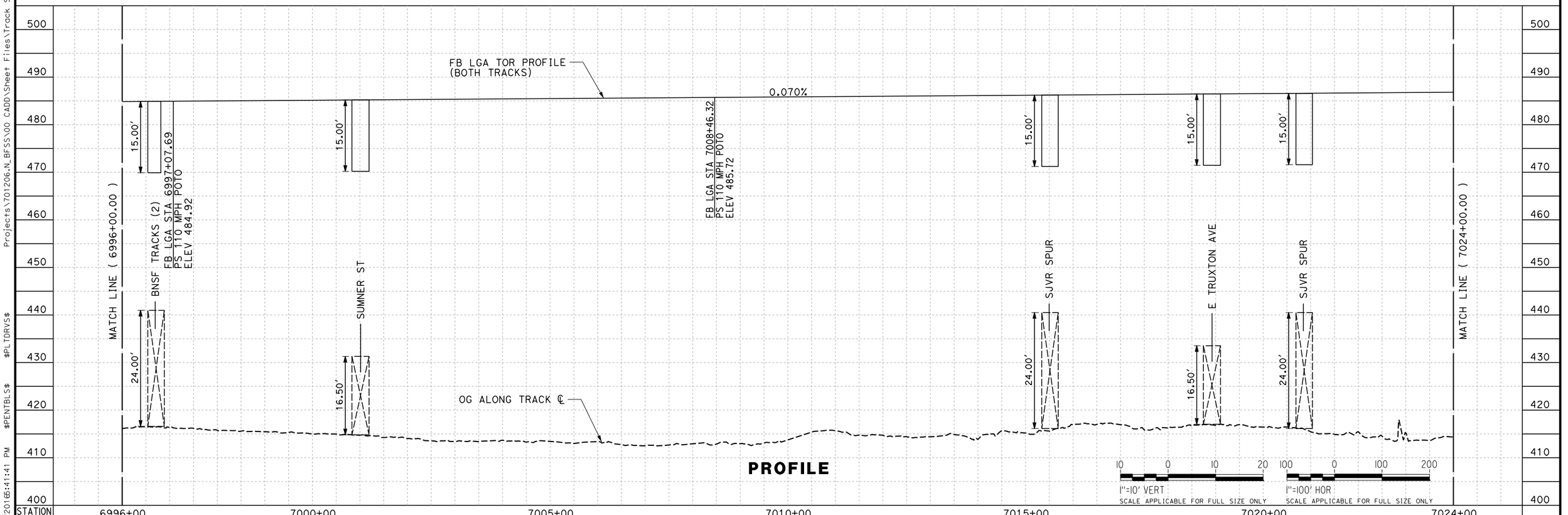
T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.





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

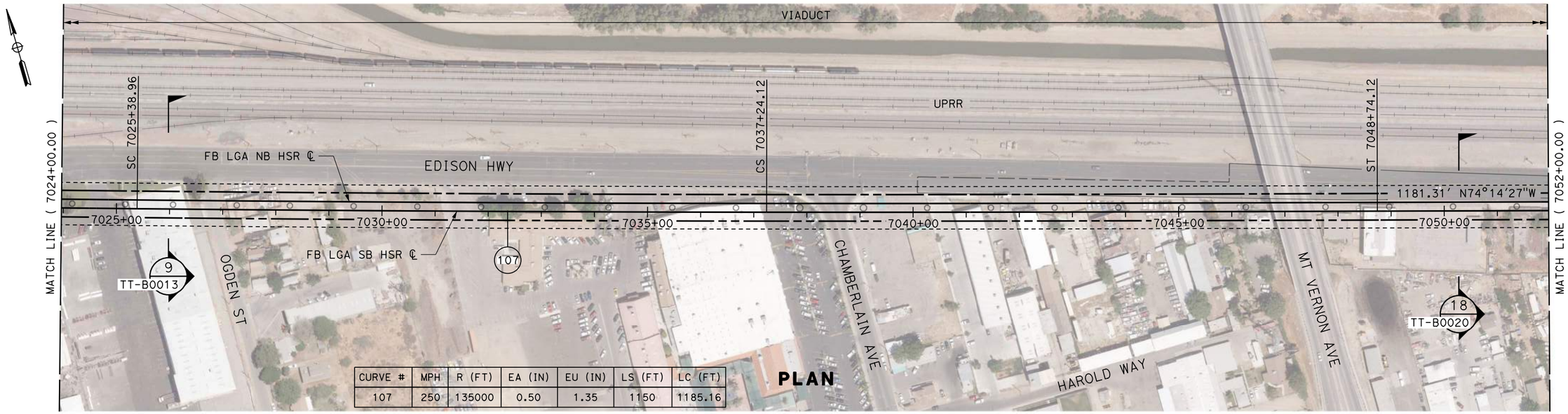
RECORD SET
PEPD DESIGN
SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

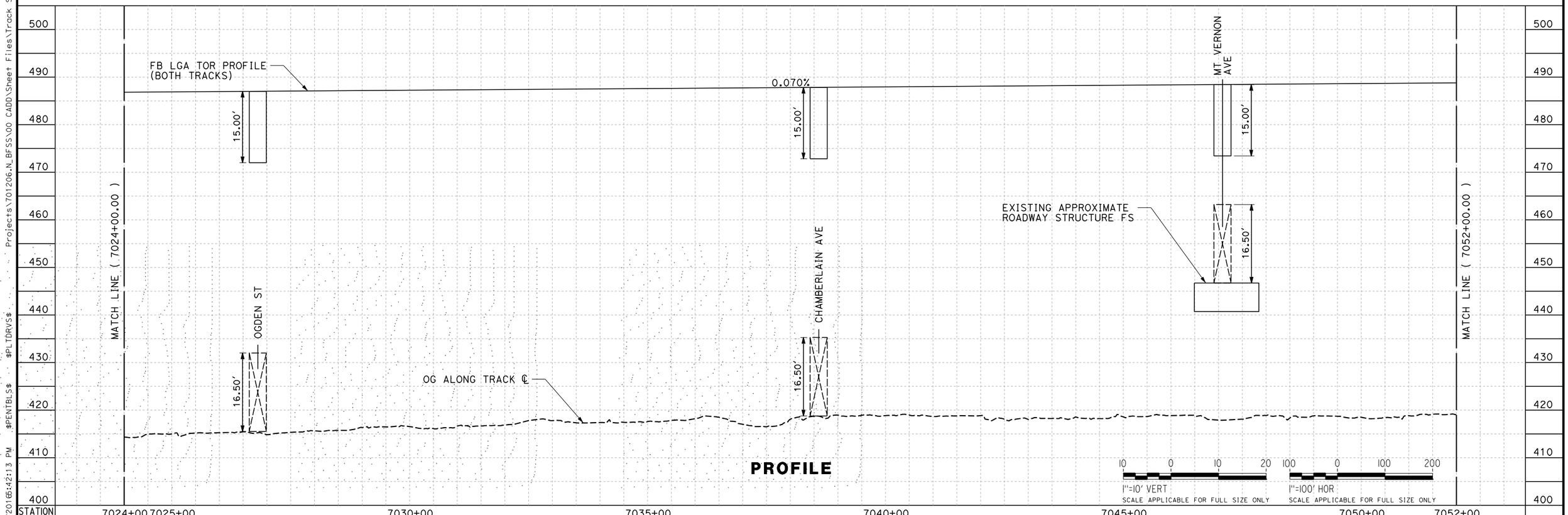
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
STA 6996+00 TO 7024+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1044
SCALE AS SHOWN
SHEET NO.



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
107	250	135000	0.50	1.35	1150	1185.16

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

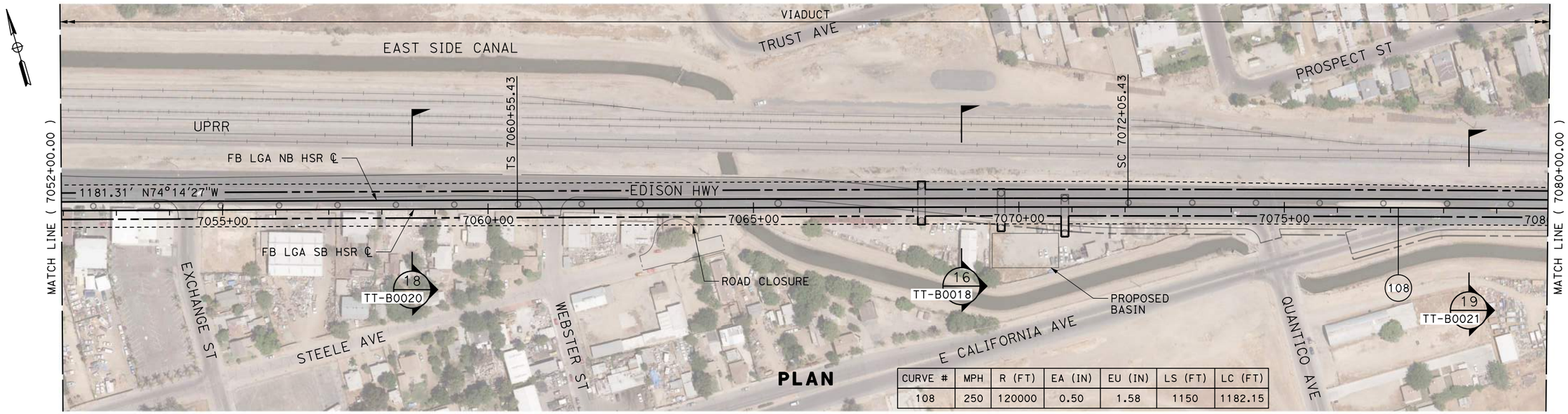
RECORD SET
PEPD DESIGN SUBMISSION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

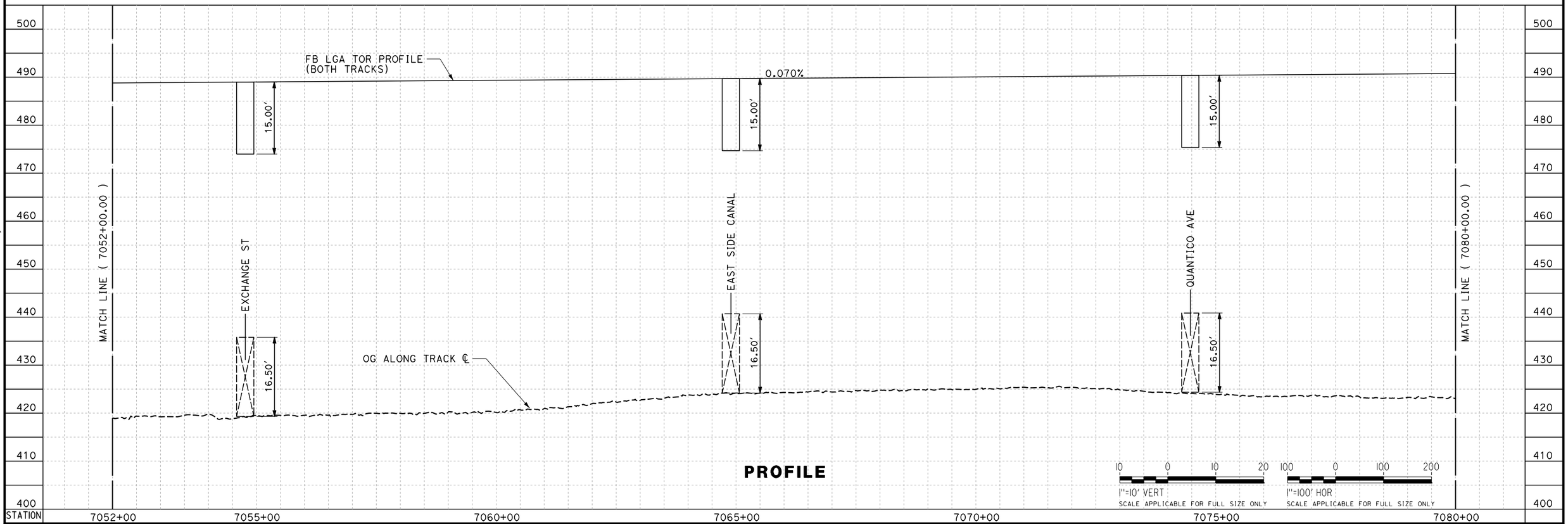
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
STA 7024+00 TO 7052+00
PLAN AND PROFILE

CONTRACT NO. HSR13-44
DRAWING NO. TT-D1045
SCALE AS SHOWN
SHEET NO.



PLAN

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



PROFILE

10 0 10 20 — 1"=10' VERT — SCALE APPLICABLE FOR FULL SIZE ONLY

100 0 100 200 — 1"=100' HOR — SCALE APPLICABLE FOR FULL SIZE ONLY

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

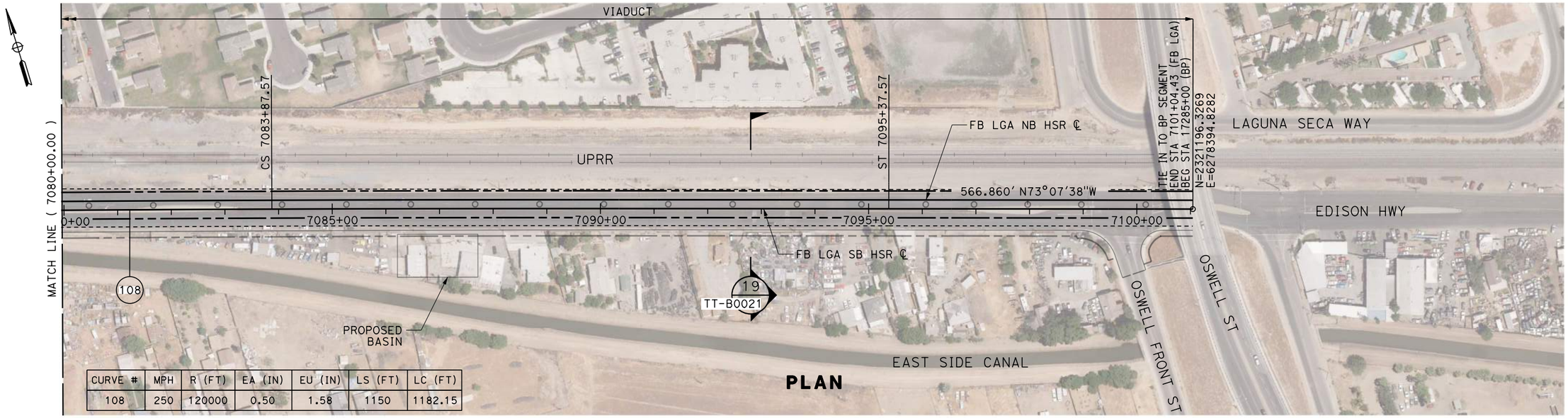
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

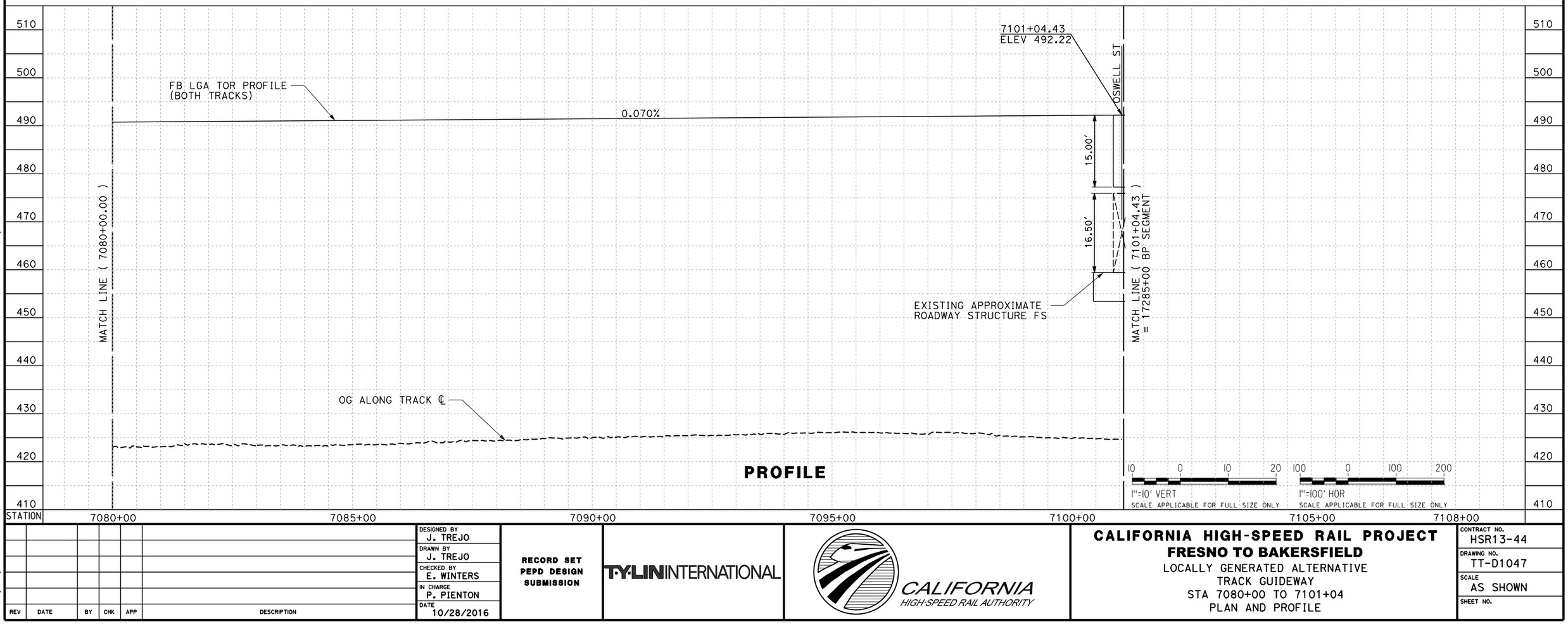
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
TRACK GUIDEWAY
STA 7052+00 TO 7080+00
PLAN AND PROFILE

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



PLAN

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



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

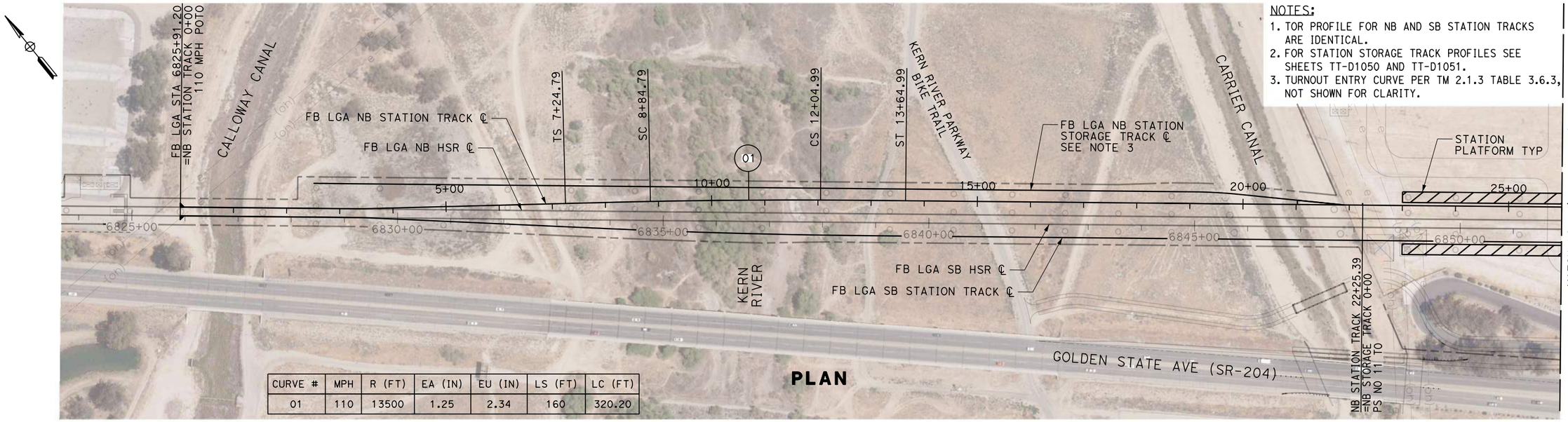
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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

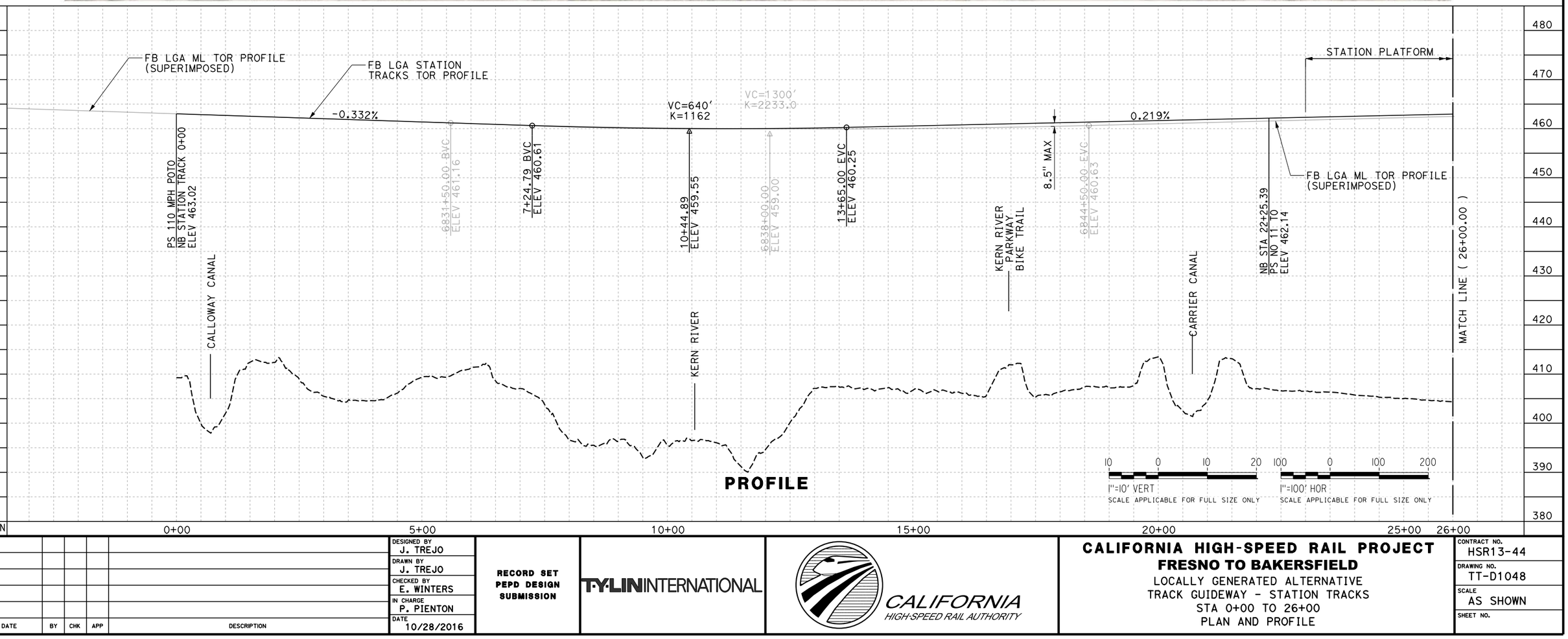


NOTES:

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.

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
01	110	13500	1.25	2.34	160	320.20

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

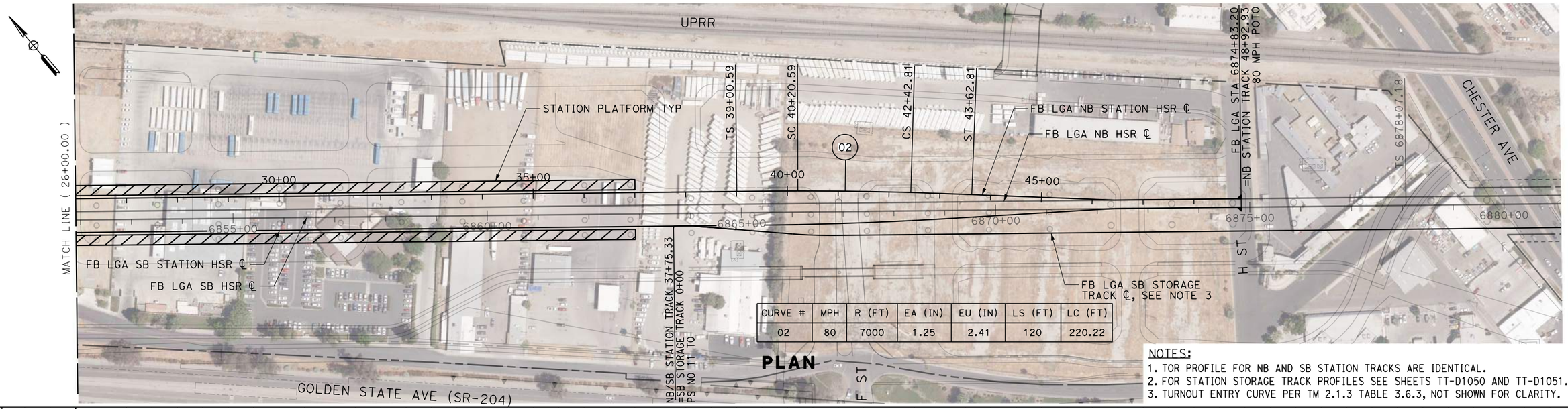
RECORD SET PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

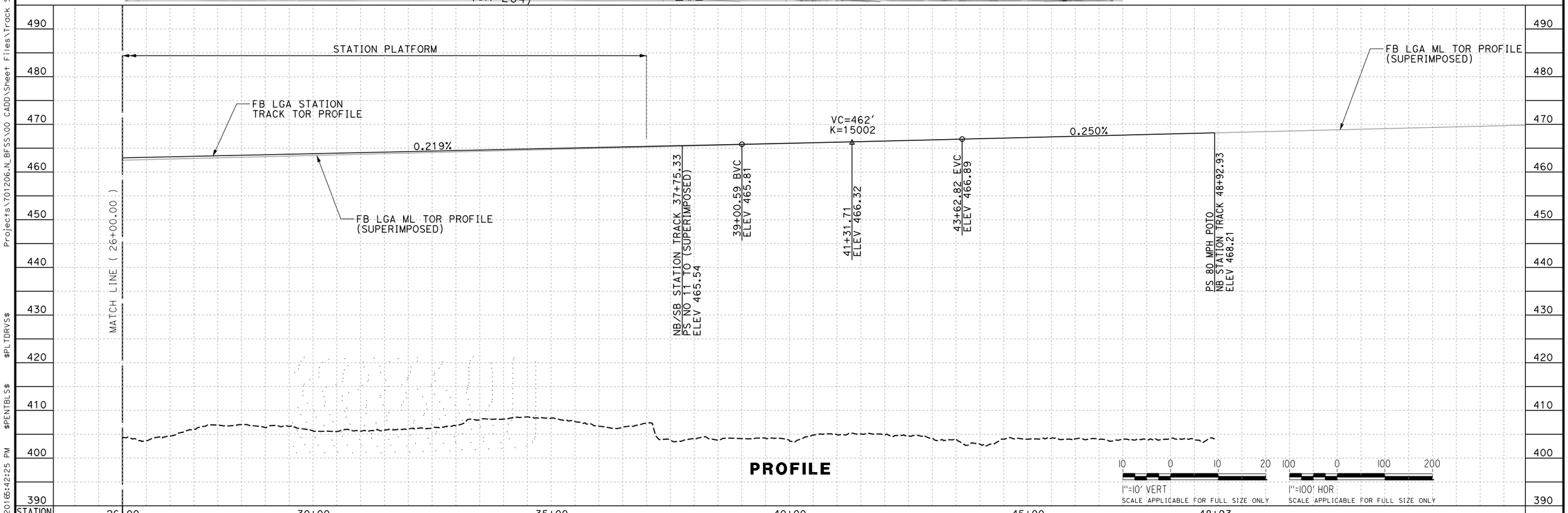
CONTRACT NO. HSR13-44
DRAWING NO. TT-D1048
SCALE AS SHOWN
SHEET NO.



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

PLAN

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.



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

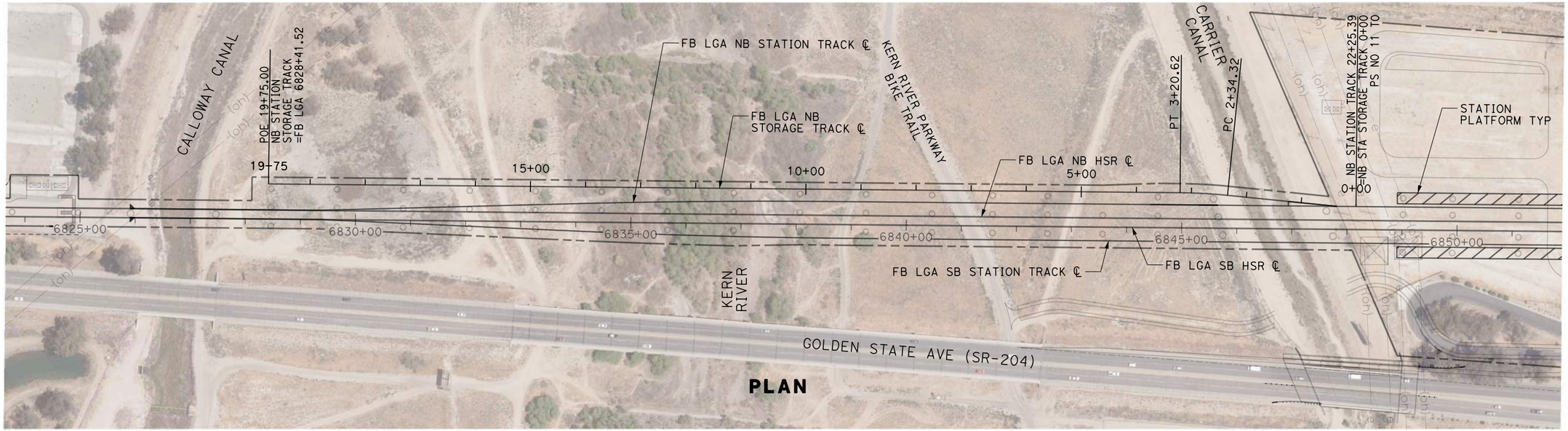
RECORD SET
PEPD DESIGN
SUBMISSION

T·Y·LIN INTERNATIONAL

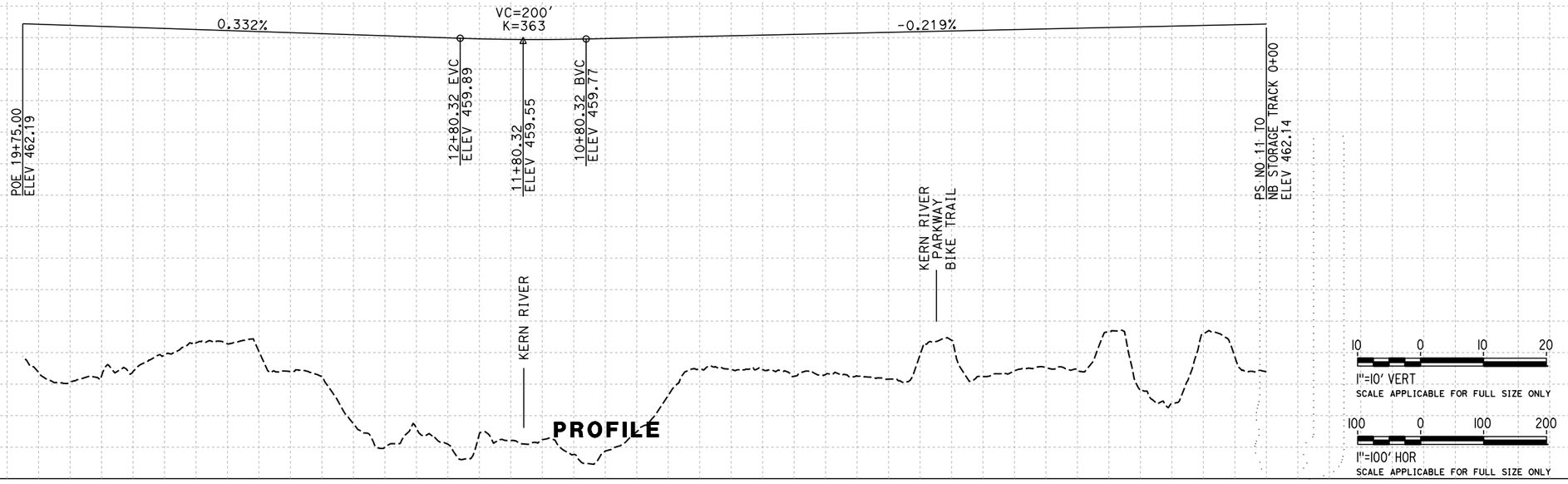
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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.



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

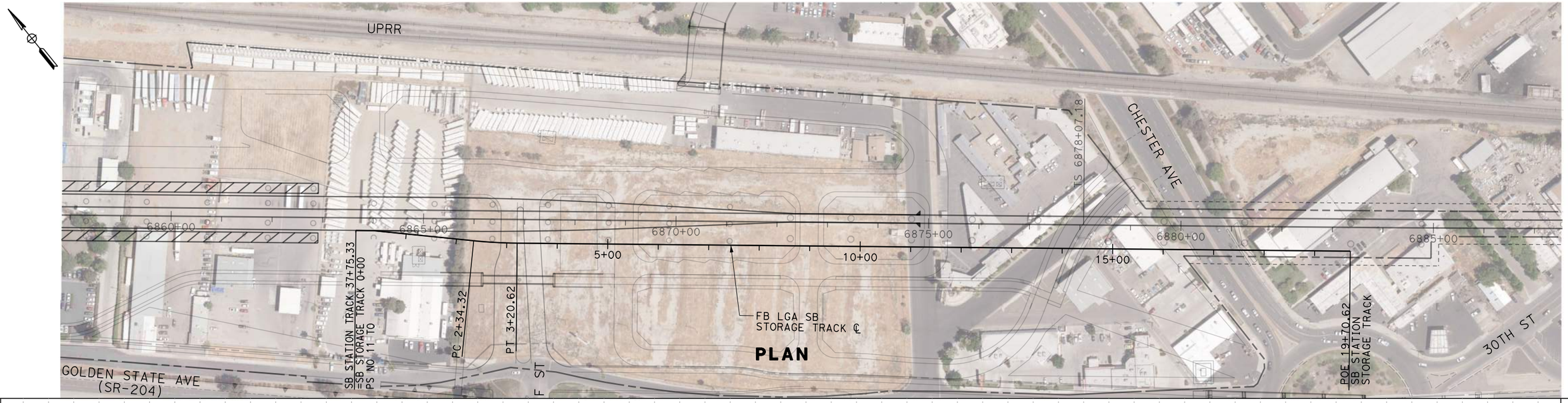
RECORD SET
PEPD DESIGN SUBMISSION

T-Y-LIN INTERNATIONAL

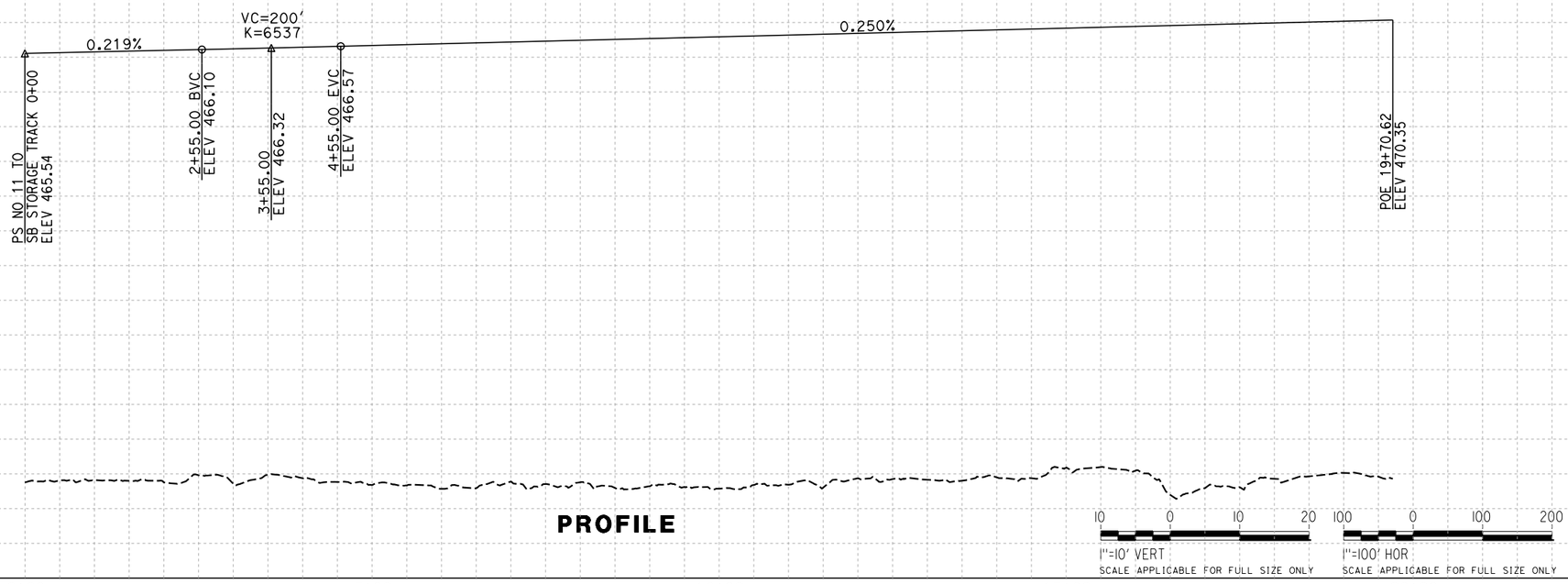
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



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

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

California High-Speed Rail Authority

Fresno to Bakersfield

Coordination Set
Locally Generated Alternative (LGA)

Roadway Plans
January 2020

CALIFORNIA
High-Speed Rail Authority

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~~
~~CV-B0014~~		~~TYPICAL SECTION~~
~~CV-B0015~~		~~TYPICAL SECTION~~
~~CV-B0016~~		~~TYPICAL SECTION~~
~~CV-B0017~~		~~TYPICAL SECTION~~
~~CV-B0018~~		~~TYPICAL SECTION~~
~~CV-B0019~~		~~TYPICAL SECTION~~
~~CV-B0020~~		~~TYPICAL SECTION~~
~~CV-B0021~~		~~TYPICAL SECTION~~
~~CV-B0022~~		~~TYPICAL SECTION~~
~~CV-B0023~~		~~TYPICAL SECTION~~
~~CV-B0024~~		~~TYPICAL SECTION~~
CV-B0025		TYPICAL SECTION
~~CV-B0026~~		~~TYPICAL SECTION~~
~~CV-B0027~~		~~TYPICAL SECTION~~
~~CV-B0028~~		~~TYPICAL SECTION~~
~~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

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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

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
COND	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

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

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

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. CV-B0004
SCALE NO SCALE
SHEET NO.

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

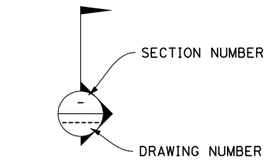
Y

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



RETAINING WALL

EXISTING RAILROAD TRACK


TRACK (PLAN)

TRACK (ELEVATION)

TRACK TO BE RELOCATED

TRACK TO BE REMOVED


REMOVE BASE & SURFACING

DIRECTION OF FLOW


WATER ELEVATION


POINT OF MINIMUM VERTICAL CLEARANCE


DIRECTION OF TRAVEL


GROUND LEVEL

CURVE DATA (ALIGNMENTS,ROADWAYS)

CURVE DATA (STRUCTURES)

LINE DATA (ALIGNMENTS,ROADWAYS)


NORTH ARROW

R/W AND EASEMENT LEGEND

GUIDEWAY RIGHT OF WAY

GUIDEWAY EASEMENT

BNSF EASEMENT

ROADWAY EASEMENT

EXISTING PARCEL BOUNDARY (GIS)

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

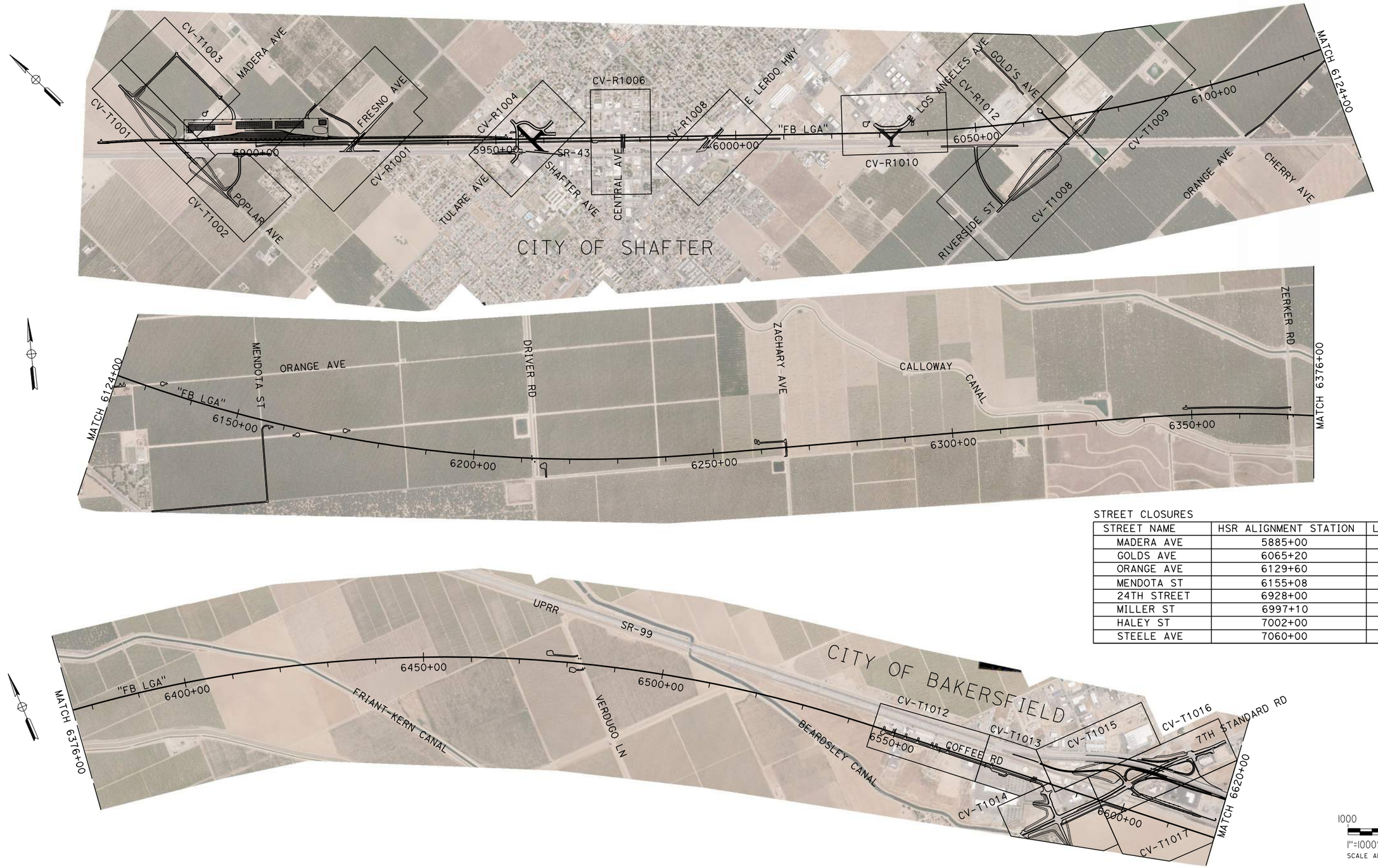
RECORD SET PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. CV-B0005
SCALE NO SCALE
SHEET NO.



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

1000 0 1000 2000
1"=1000' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

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

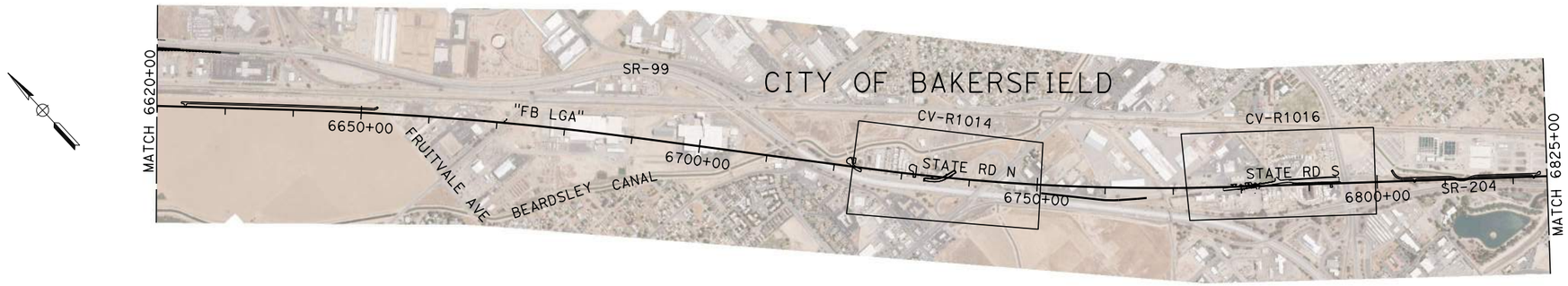
RECORD SET
PEPD DESIGN SUBMISSION

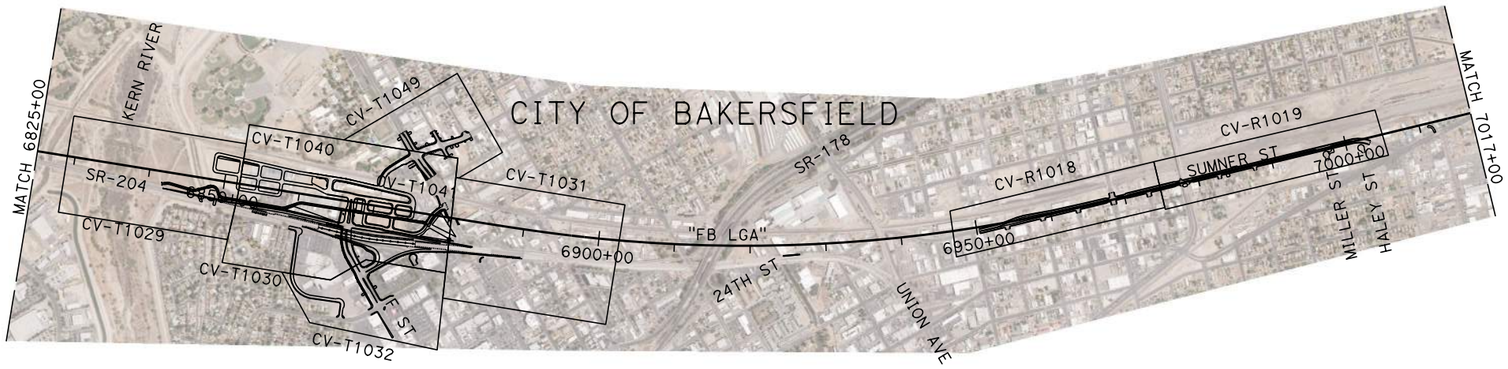
T·Y·LIN INTERNATIONAL

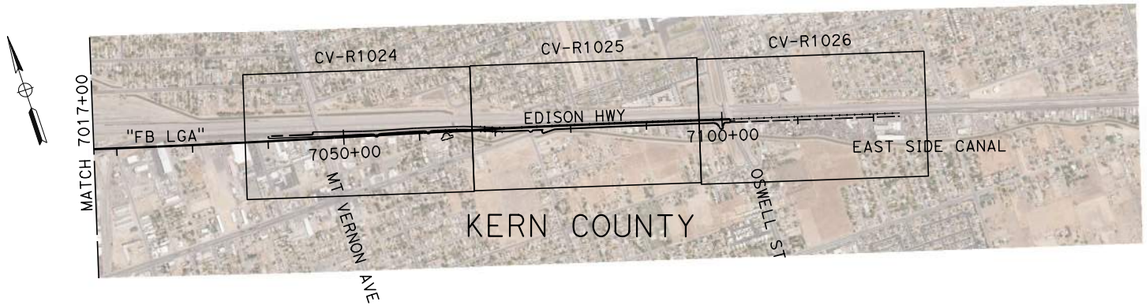
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.







1000 0 1000 2000

1"=1000' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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

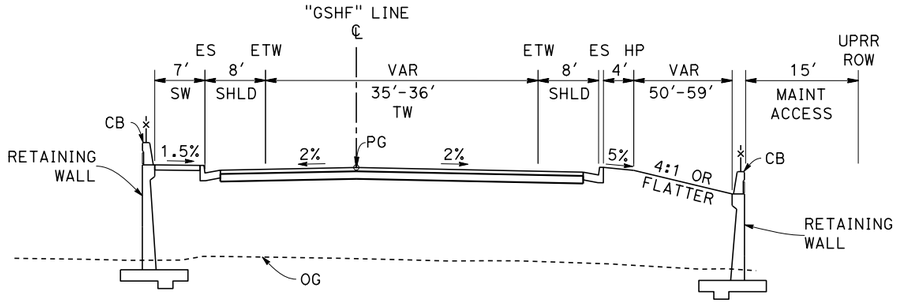
T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

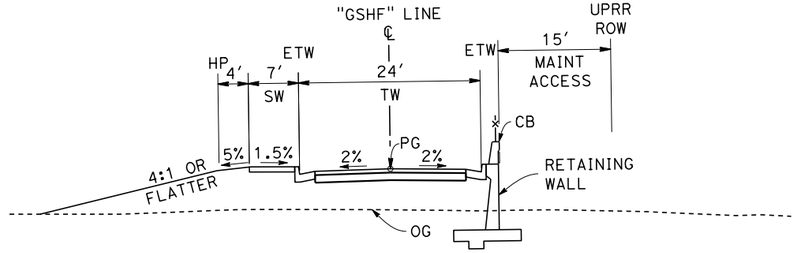
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
ROADWAY / GRADE SEPARATION
KEY MAP SHEET 2

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

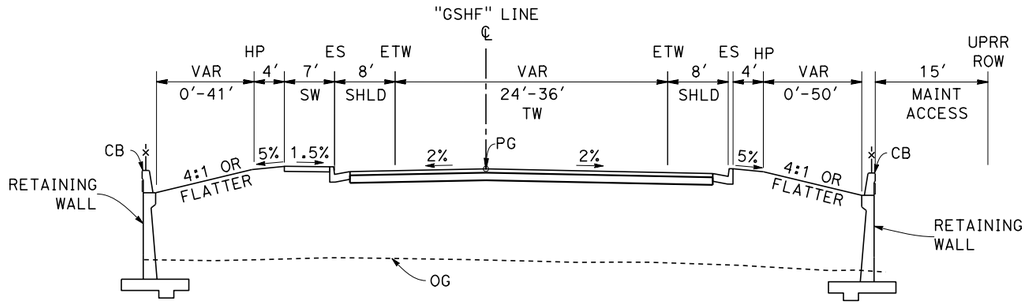
NOTE: VALUES WITHIN PARENTHESES INDICATE EXISTING CONDITION DIMENSIONS



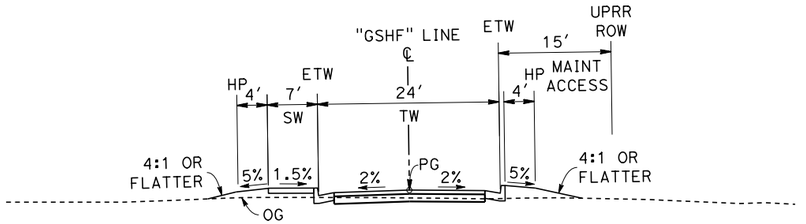
TYPICAL SECTION
GOLDEN STATE HIGHWAY FRONTAGE
"GSHF" STA 35+64 TO 36+56



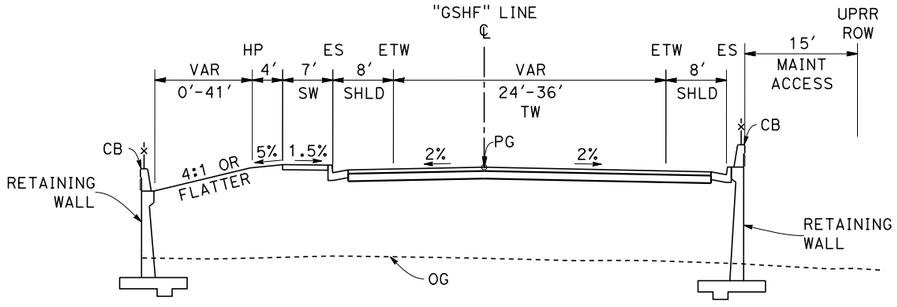
TYPICAL SECTION
GOLDEN STATE HIGHWAY FRONTAGE
"GSHF" STA 45+81 TO 48+85



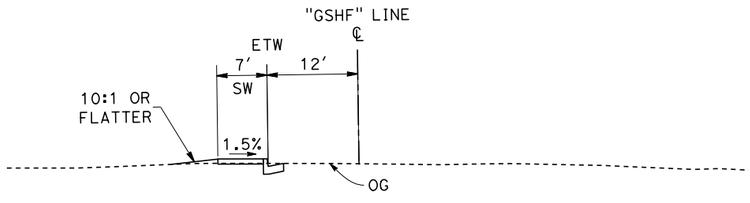
TYPICAL SECTION
GOLDEN STATE HIGHWAY FRONTAGE
"GSHF" STA 36+56 TO 38+05



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

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE 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

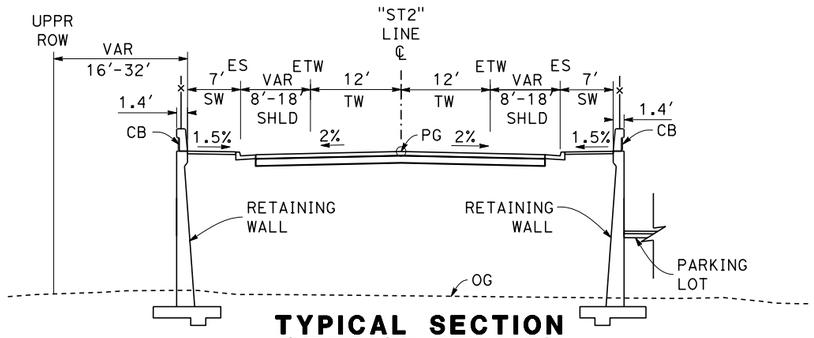
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

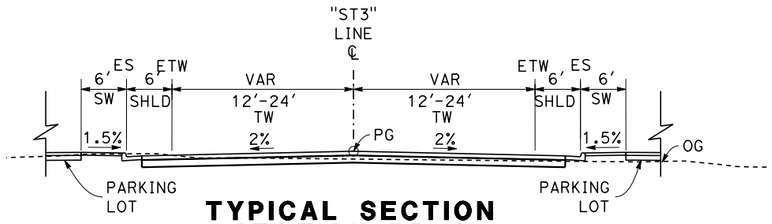
CONTRACT NO. HSR13-44
DRAWING NO. CV-B0025
SCALE AS SHOWN
SHEET NO.

NOTE: VALUES WITHIN PARENTHESES INDICATE EXISTING CONDITION DIMENSIONS



TYPICAL SECTION STATION RD 1&2

"ST1" STA 80+00 TO 93+92
"ST2" STA 10+00 TO 11+89



TYPICAL SECTION STATION RD 3

"ST3" STA 40+00 TO 51+39

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY

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

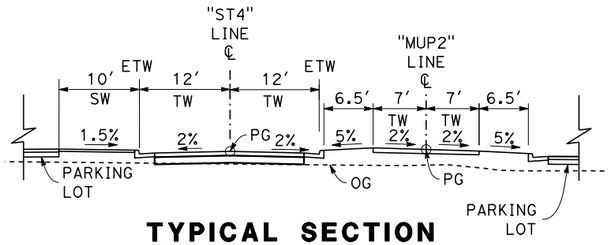
T.Y.LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

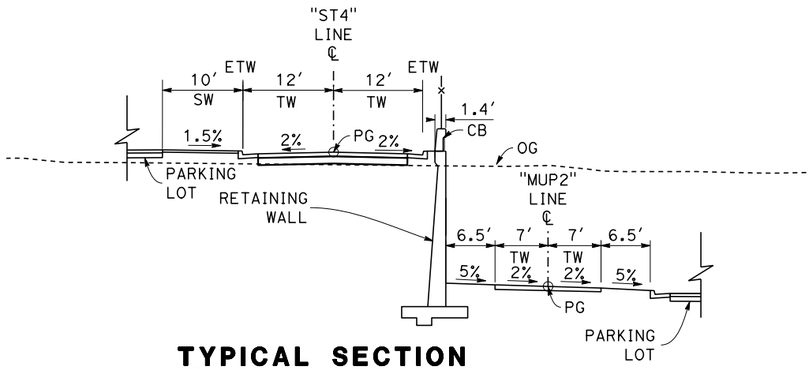
CONTRACT NO. HSR13-44
DRAWING NO. CV-B0035
SCALE AS SHOWN
SHEET NO.

NOTE: VALUES WITHIN PARENTHESES INDICATE EXISTING CONDITION DIMENSIONS



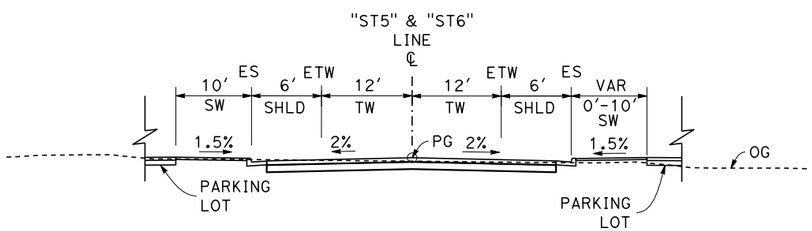
TYPICAL SECTION STATION RD 4 & MULTIUSE PATH 2

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



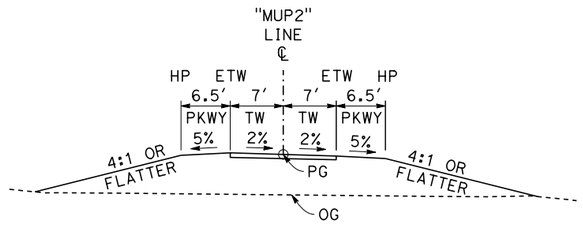
TYPICAL SECTION STATION RD 4 & MULTIUSE PATH 2

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



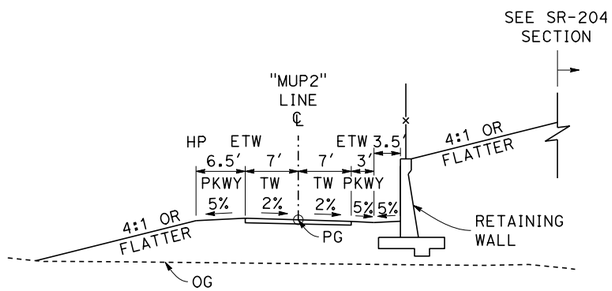
TYPICAL SECTION STATION RD 5&6

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



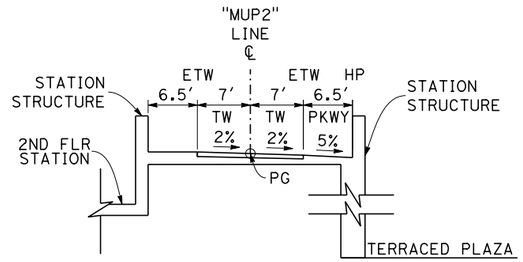
TYPICAL SECTION MULTIUSE PATH 2

"MUP2" STA 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



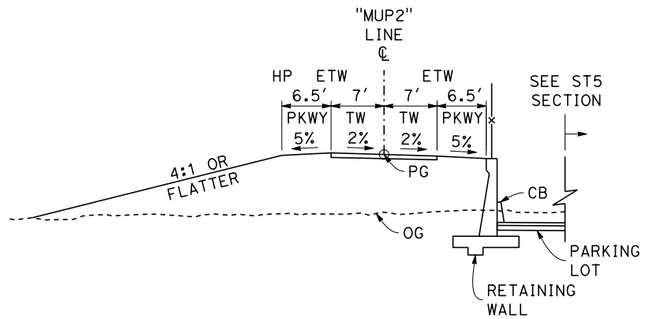
TYPICAL SECTION MULTIUSE PATH 2

"MUP2" STA 18+21 TO 20+06



TYPICAL SECTION MULTIUSE PATH 2

"MUP2" STA 30+00 TO 35+20



TYPICAL SECTION MULTIUSE PATH 2

"MUP2" STA 36+74 TO 37+95

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY

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

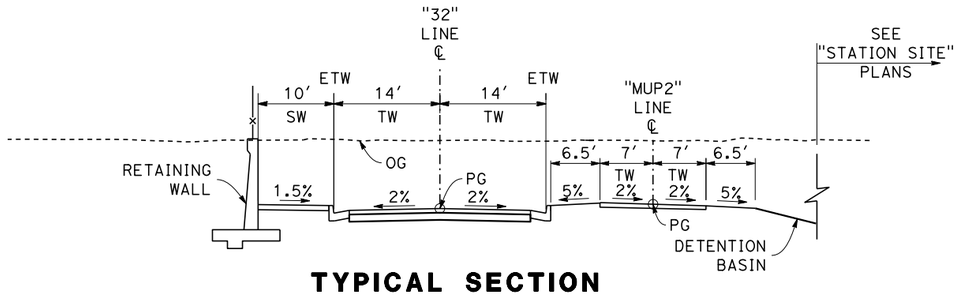
TYLIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

NOTE: VALUES WITHIN PARENTHESES INDICATE EXISTING CONDITION DIMENSIONS



TYPICAL SECTION 32ND ST & MULTIUSE PATH 2

"32" STA 80+00 TO 92+73
"MUP2" STA 46+65 TO 49+56

10 0 10 20
1"=10′
SCALE APPLICABLE FOR FULL SIZE ONLY

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

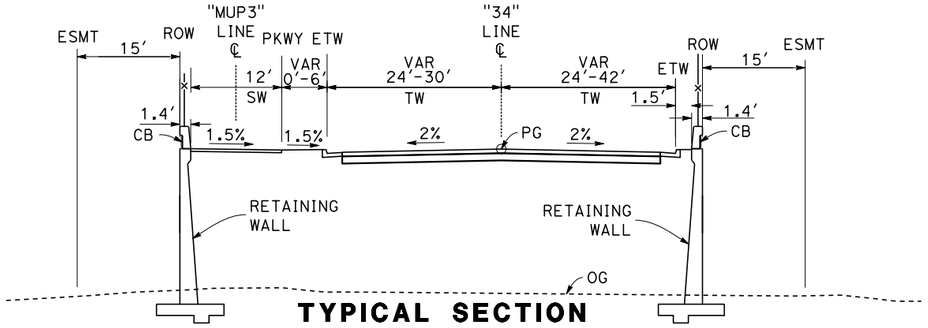
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

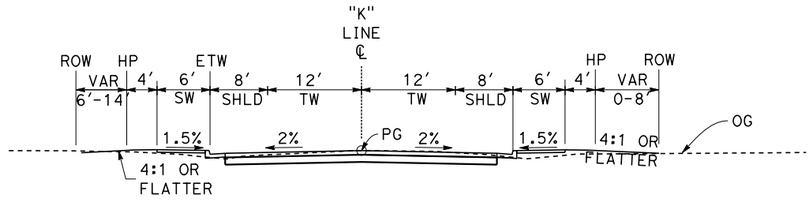
CONTRACT NO. HSR13-44
DRAWING NO. CV-B0037
SCALE AS SHOWN
SHEET NO.

NOTE: VALUES WITHIN PARENTHESES INDICATE EXISTING CONDITION DIMENSIONS



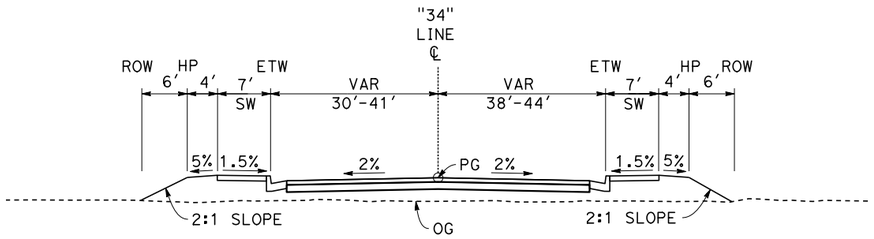
TYPICAL SECTION
34TH

"34" STA 18+15 TO 22+69



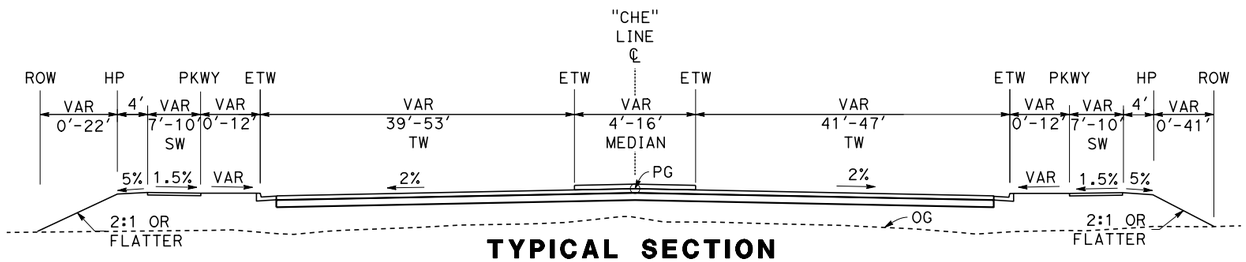
TYPICAL SECTION
K ST

"K" STA 20+00 TO 24+00



TYPICAL SECTION
34TH

"34" STA 22+69 TO 31+00



TYPICAL SECTION
CHESTER AVE

"CHE" STA 19+00 TO 26+00

10 0 10 20

1"=10'

SCALE APPLICABLE FOR FULL SIZE ONLY

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

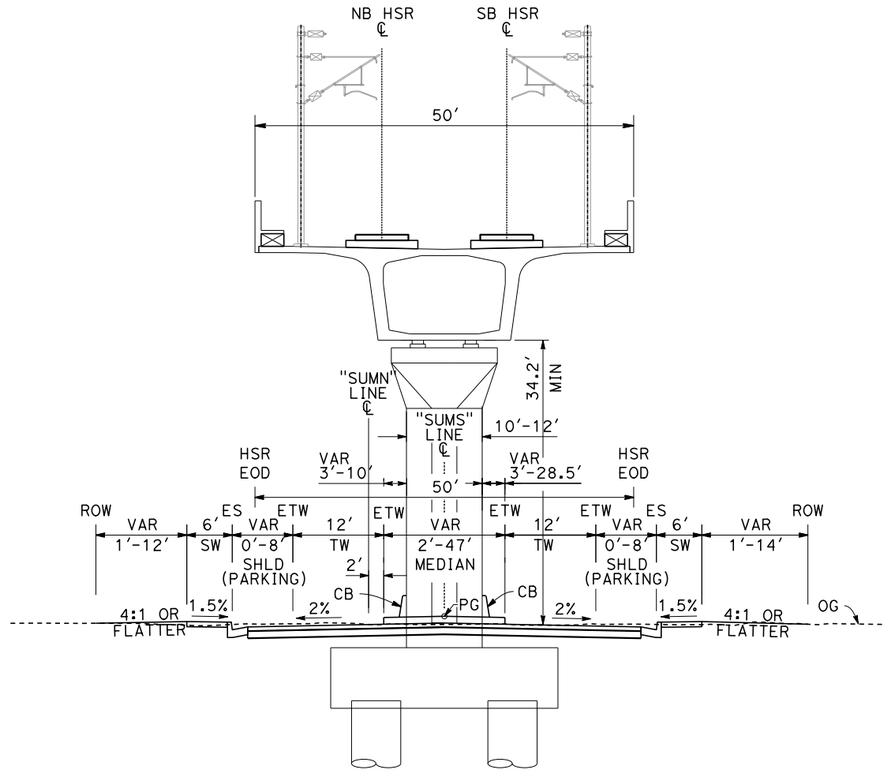
TYLIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. CV-B0038
SCALE AS SHOWN
SHEET NO.

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

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY

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

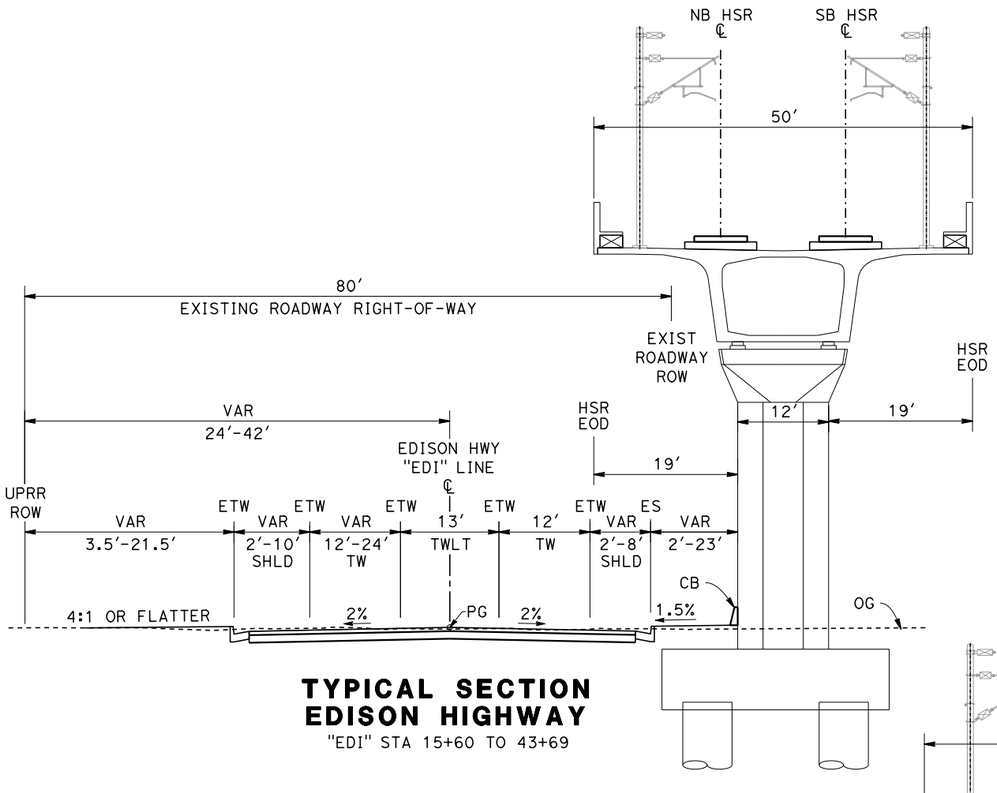
T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

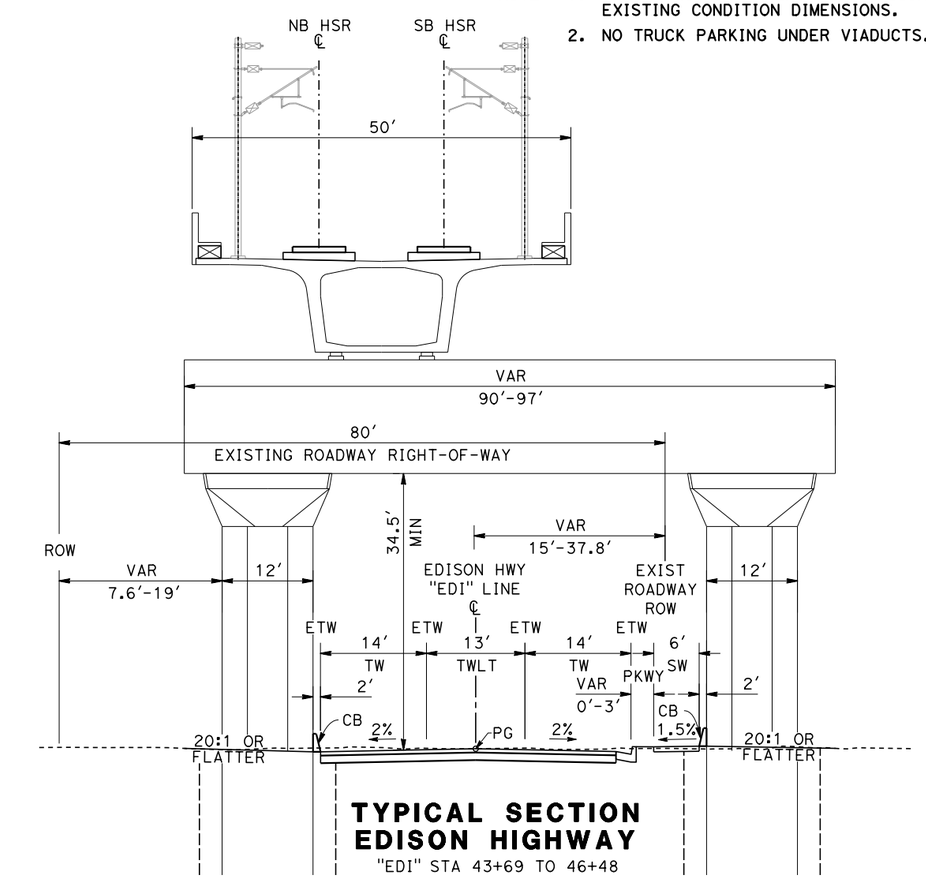
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
ROADWAY / GRADE SEPARATION
TYPICAL SECTIONS

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

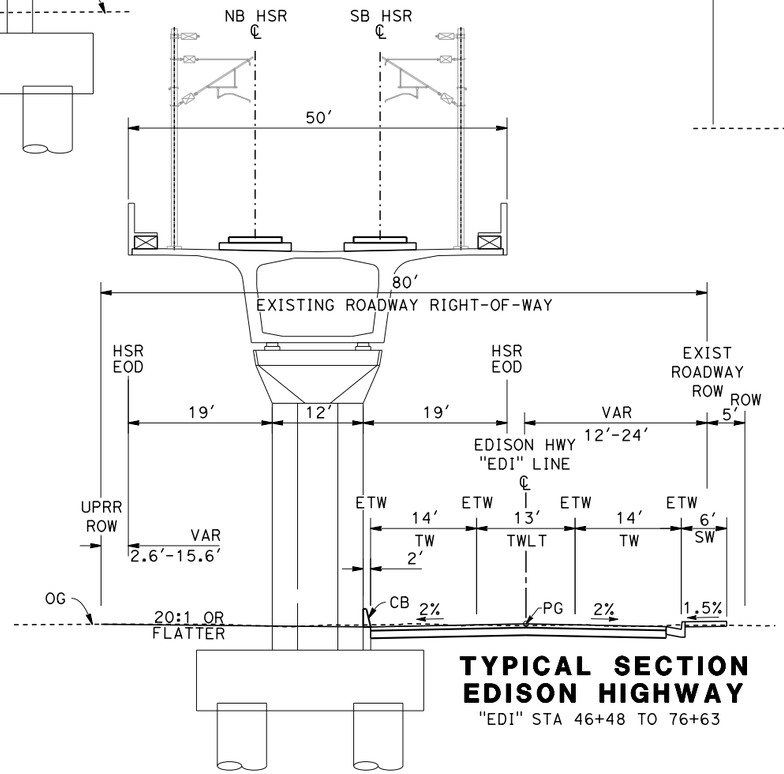
NOTE: 1. VALUES WITHIN PARENTHESES INDICATE EXISTING CONDITION DIMENSIONS.
2. NO TRUCK PARKING UNDER VIADUCTS.



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

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY

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

TYLININTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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′

JACKSON ST

"SUMN" LINE

UPRR

"SUMN" 14+14.23 EC

"SUMN" 12+39.77 BC

"SUMN" 17+26.70 BC

"SUMN" 17+63.03 EC

"SUMN" 25+18.90 PI

"SUMN" 21+98.35 EC

"SUMN" 21+86.93 BC

CONFORM

"SUMS" 35+53.96 PI

FB LGA NB HSR ℄

EDGE OF DECK

TL-3 CRASH CUSHION

SUMNER ST

EDGE OF DECK

"SUMS" 10+00.00 PI

SONORA ST

"SUMS" 11+50.00 CONFORM

INYO ST

CONFORM HSR VIADUCT COLUMN (TYP)

"SUMN" 10+00.00 POT = "SUMS" 13+92.88 POT

TULARE ST

CONFORM

"SUMS" LINE

CONFORM

KERN ST

BAKER AVE

FB LGA SB HSR ℄

CONFORM

KING ST

MATCH LINE (CV-R1019)

E 21ST ST

100 0 100 200

1"=100' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

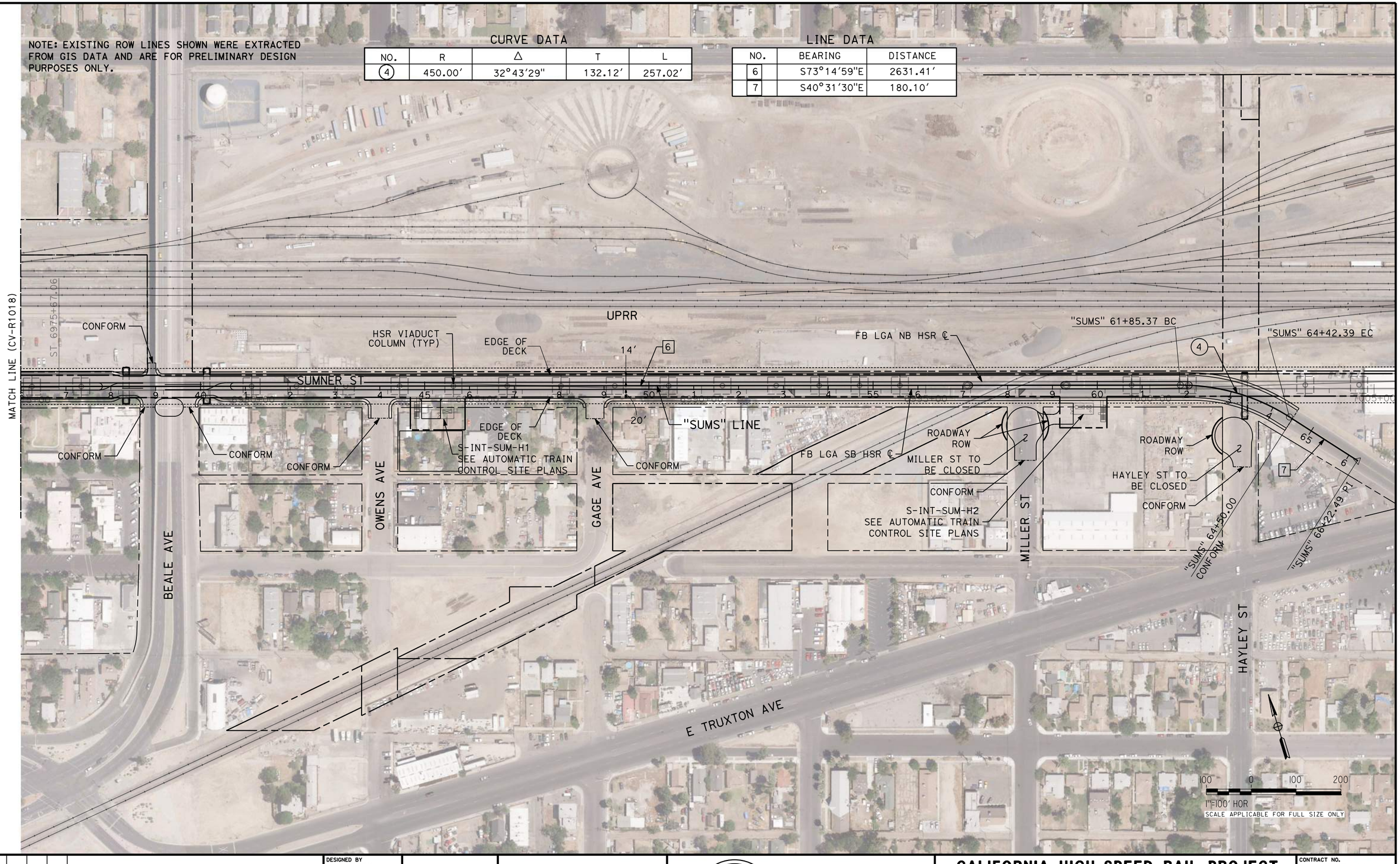
NOTE: EXISTING ROW LINES SHOWN WERE EXTRACTED FROM GIS DATA AND ARE FOR PRELIMINARY DESIGN PURPOSES ONLY.

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

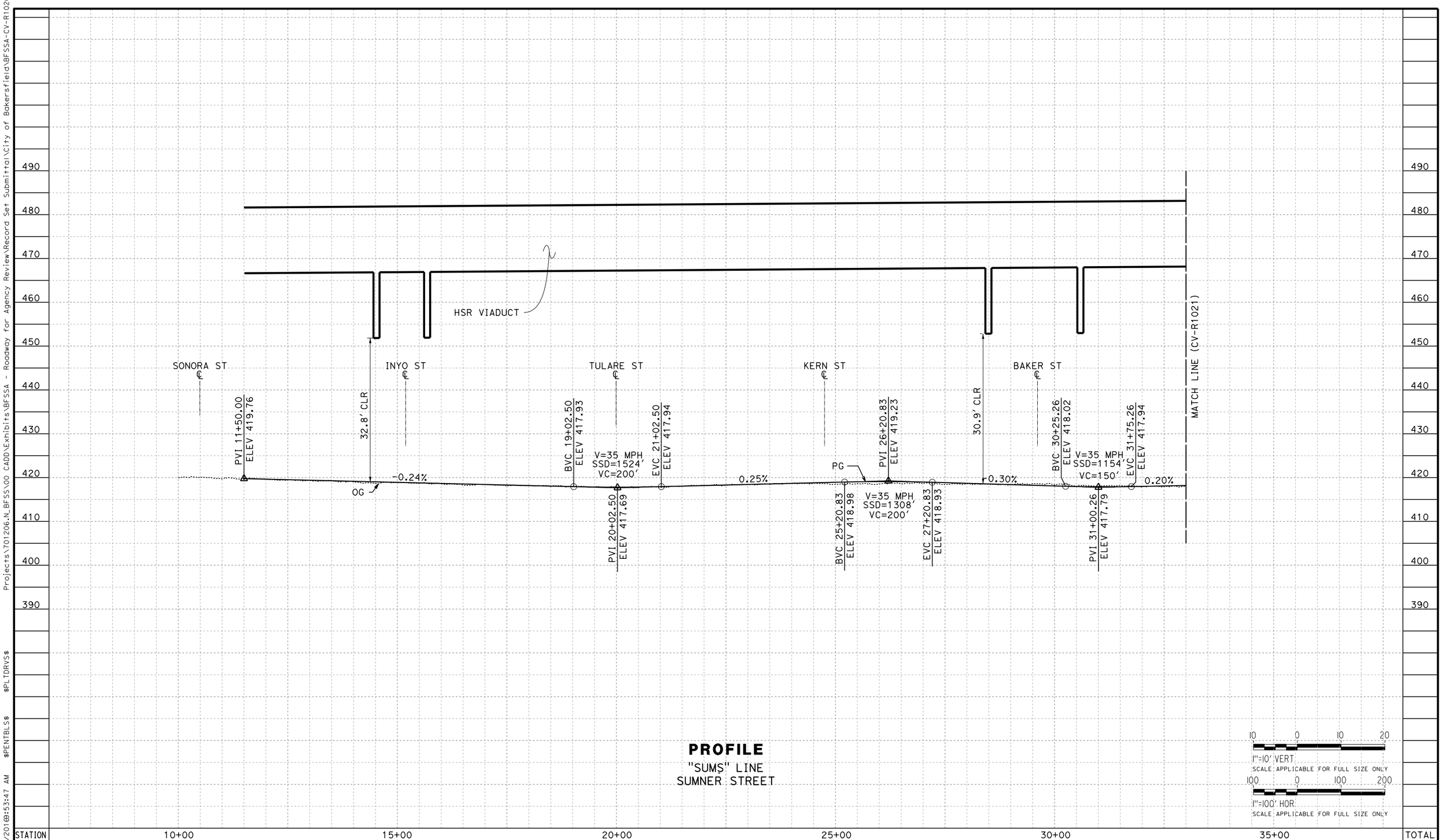
RECORD SET
PEPD DESIGN SUBMISSION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



PROFILE
"SUMS" LINE
SUMNER STREET

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

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

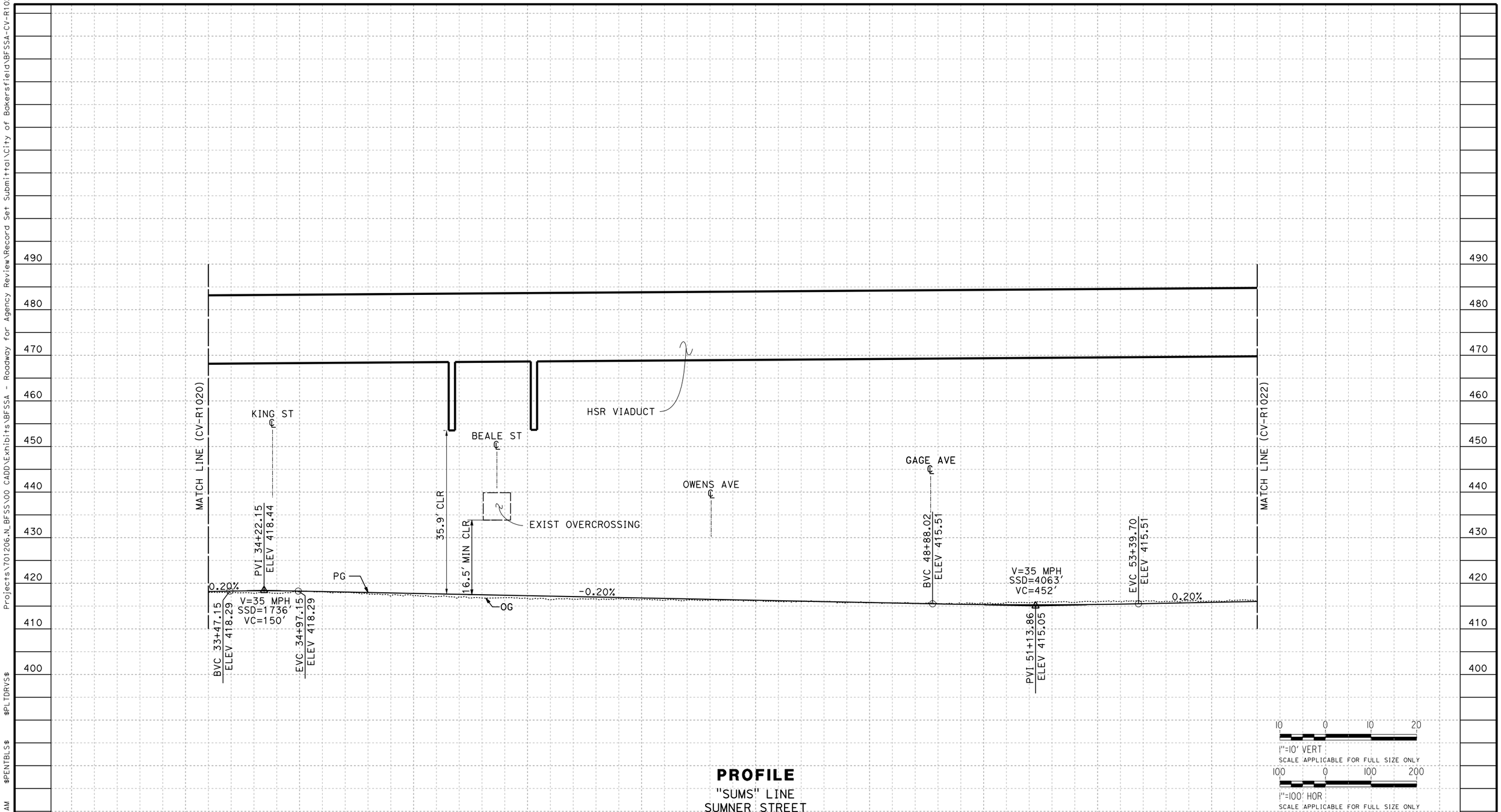
RECORD SET
PEPD DESIGN
SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1020
SCALE AS SHOWN
SHEET NO.



10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

PROFILE

"SUMS" LINE
SUMNER STREET

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

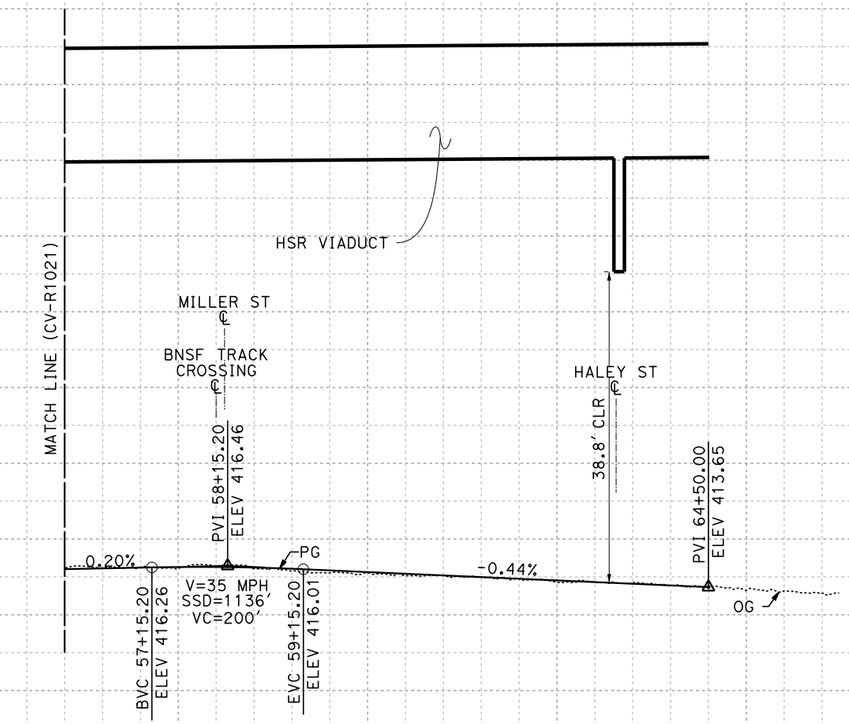
RECORD SET
PEPD DESIGN
SUBMISSION

T-Y-LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1021
SCALE AS SHOWN
SHEET NO.



PROFILE

"SUMS" LINE
SUMNER STREET

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

490 480 470 460 450 440 430 420 410 400 390

STATION 50+00 55+00 60+00 65+00 70+00 75+00 TOTAL

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

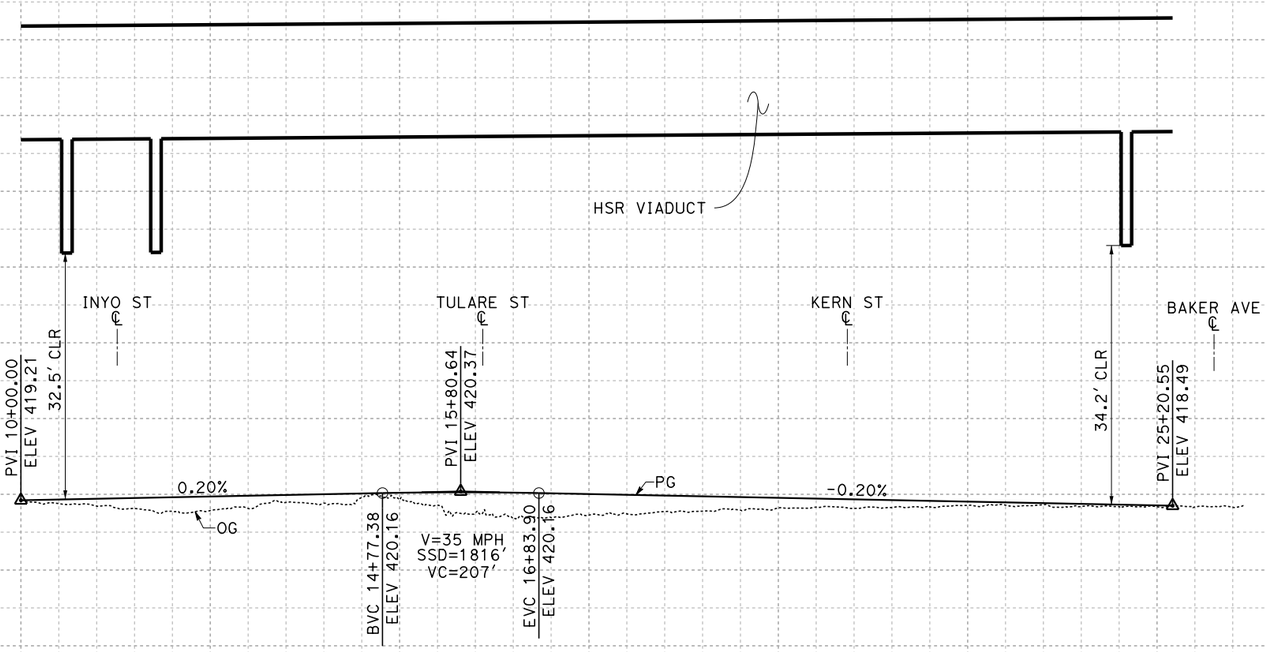
RECORD SET
PEPD DESIGN
SUBMISSION

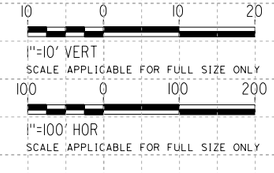
TY LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1022
SCALE AS SHOWN
SHEET NO.





PROFILE

"SUMN" LINE
SUMNER STREET

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1023
SCALE AS SHOWN
SHEET NO.

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′

CENTER ST
MT. VERNON AVE
SECURITY AVE
CANAL ST
TRUST AVE
EASTSIDE CANAL
UPRR
EDISON HWY
"EDI" 15+00.00 PI
"EDI" LINE
"EDI" 42+06.87 EC
"EDI" 40+80.90 BC
"EDI" 15+60.63 CONFORM
"EDI" 23+87.20 PI
"EDI" 29+40.90 BC
"EDI" 29+85.01 EC
"EDI" 34+87.16 BC
"EDI" 35+26.97 EC
EDGE OF DECK
FB LGA NB HSR ℄
FB LGA SB HSR ℄
CONFORM
HSR VIADUCT COLUMN (TYP)
MATCH LINE (CV-R1025)
HAROLD WAY
CHAMBERLAIN AVE
STEELE AVE
WEBSTER ST.
EXCHANGE ST
E. CALIFORNIA AVE

100 0 100 200
1"=100′ HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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

TRUST AVE
BARLOW ST
PROSPECT ST
PENZ ST
REMBRANDT ST
DESCANSO ST
MONET CT
RENOIR CT
DEGAS CT
PIONEER DR
UPRR
COLLECTOR
ARTERIAL
MATCH LINE (CV-R1024)
SC 7072+05.43
CS 7083+07.57
ST 7095+57.57
MATCH LINE (CV-R1026)
EP
CB
"EDI" LINE
EDISON HWY
EDGE OF DECK
41′
HSR VIADUCT COLUMN (TYP)
FB LGA NB HSR ℄
FB LGA SB HSR ℄
ROADWAY ROW
"EDI" 47+58.88 EC
"EDI" 46+23.14 BC
CONFORM
"EDI" 54+88.53 BC
"EDI" 68+10.88 EC
EASTSIDE CANAL
EAST SIDE CANAL
E CALIFORNIA AVE
QUANTICO ST
CITRUS AVE

100 0 100 200
1"=100′ HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

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

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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'

PIONEER DR

LAGUNA SECA WAY

GARDENIA AVE

DAISY ST

PETUNIA ST

DAHLIA ST

TULIP ST

STERLING RD

CAMELLIA DR

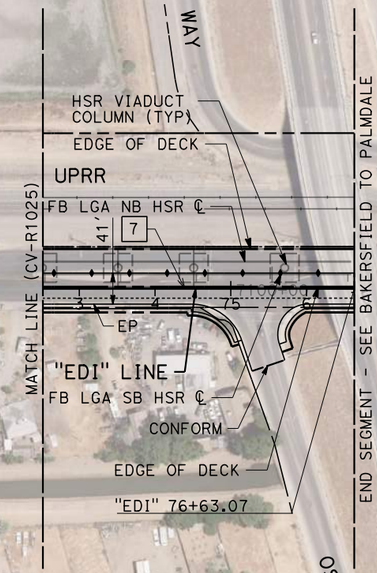
LAGUNA SECA WAY

EDISON HWY

EAST SIDE CANAL

OSWELL FRONT ST

OSWELL ST



100 0 100 200

1"=100' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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

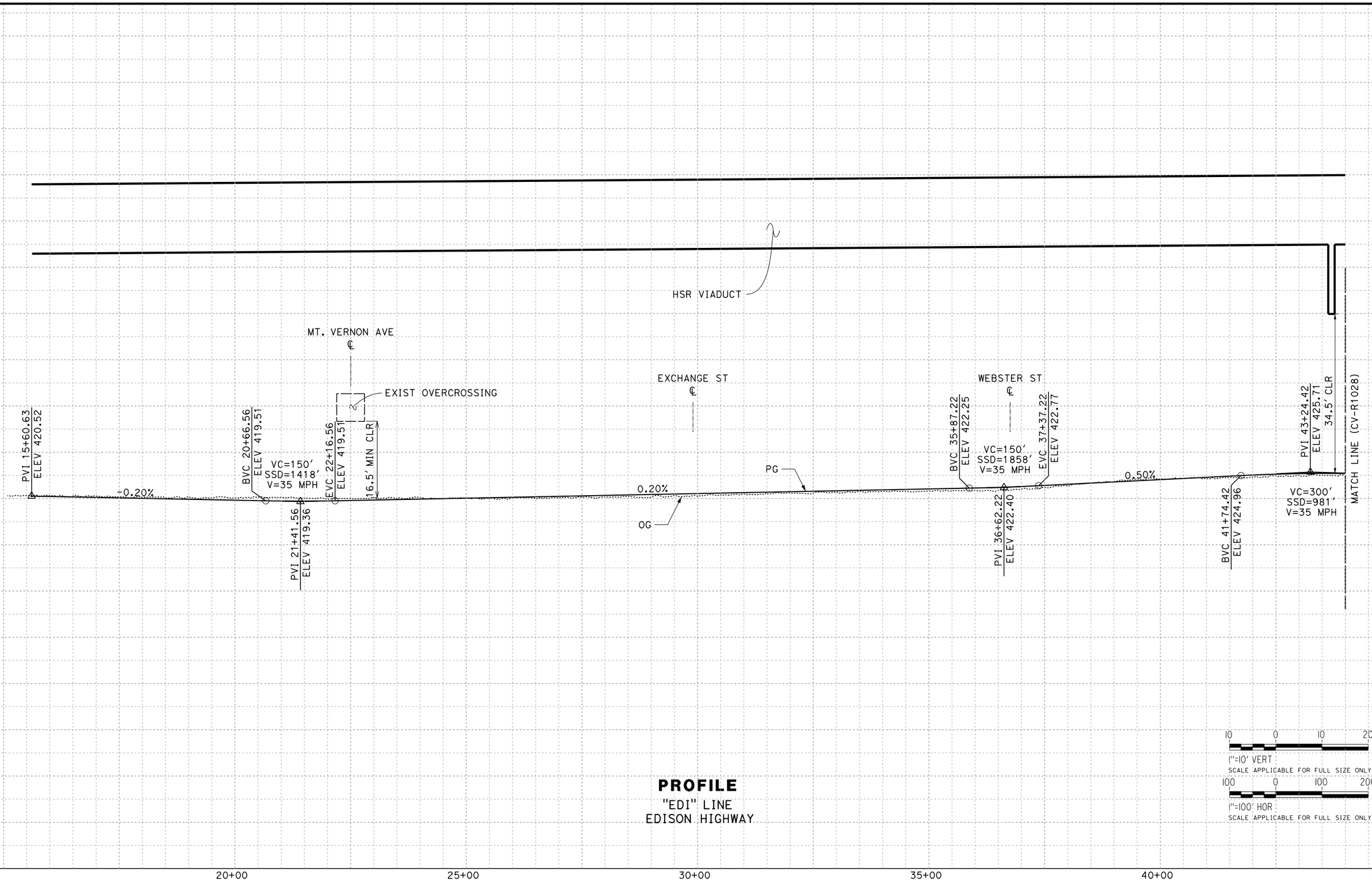
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

TYLI\rcarrillo 11/28/2016 10:19:03 AM $PENTBLS$ $PLTDRVS$ Projects\701206.N_BFSS\00 CADD\Exhibits\BFSSA - Roadway for Agency Review\Record Set Submittal\Kern County\BFSSA-CV-R1026-EDI



PROFILE

"EDI" LINE
EDISON HIGHWAY

STATION 20+00 25+00 30+00 35+00 40+00 45+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 10/28/2016

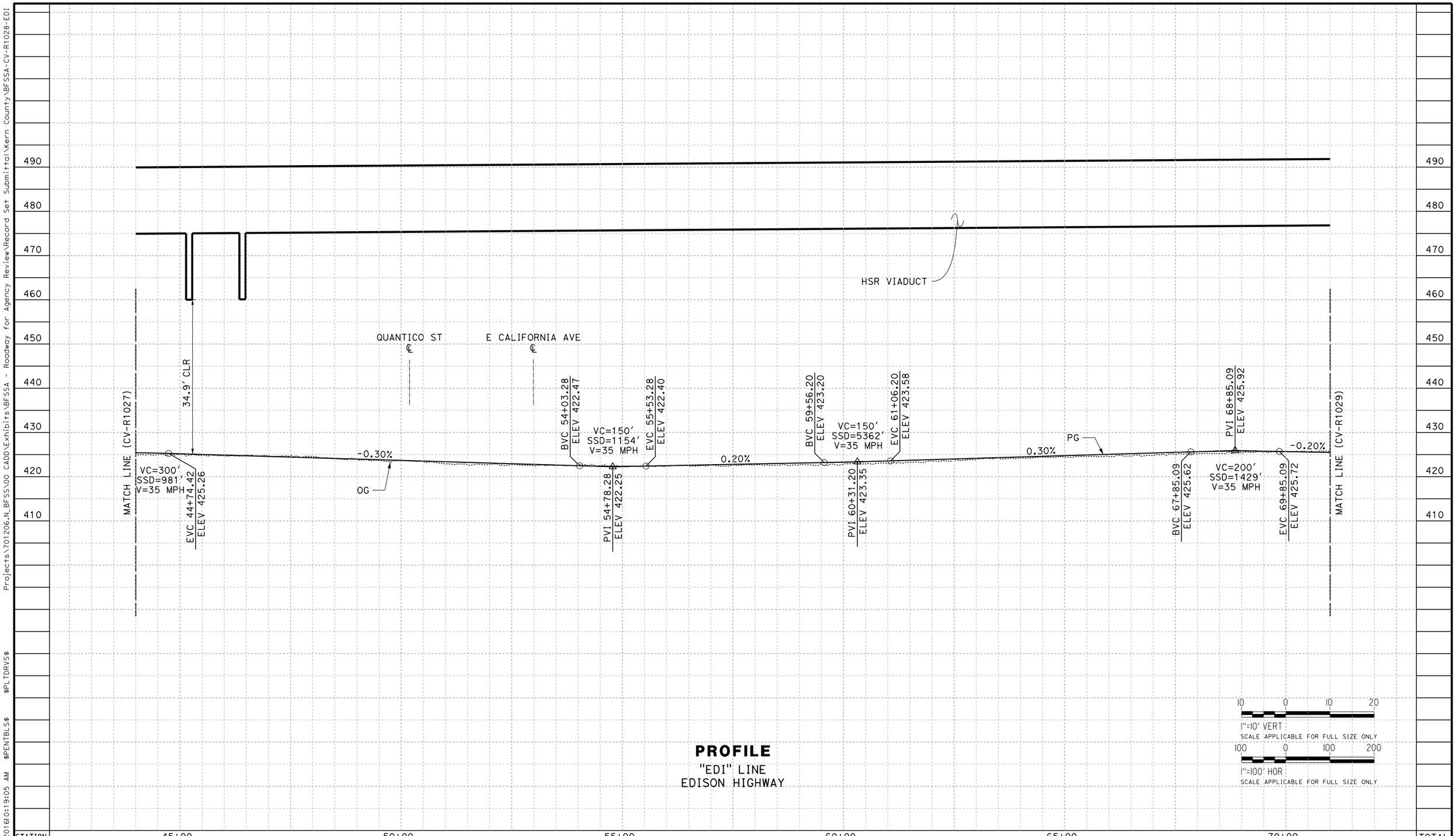
RECORD SET
PEPD DESIGN
SUBMISSION

T-Y-LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1027
SCALE AS SHOWN
SHEET NO.



10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

PROFILE

"EDI" LINE
EDISON HIGHWAY

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

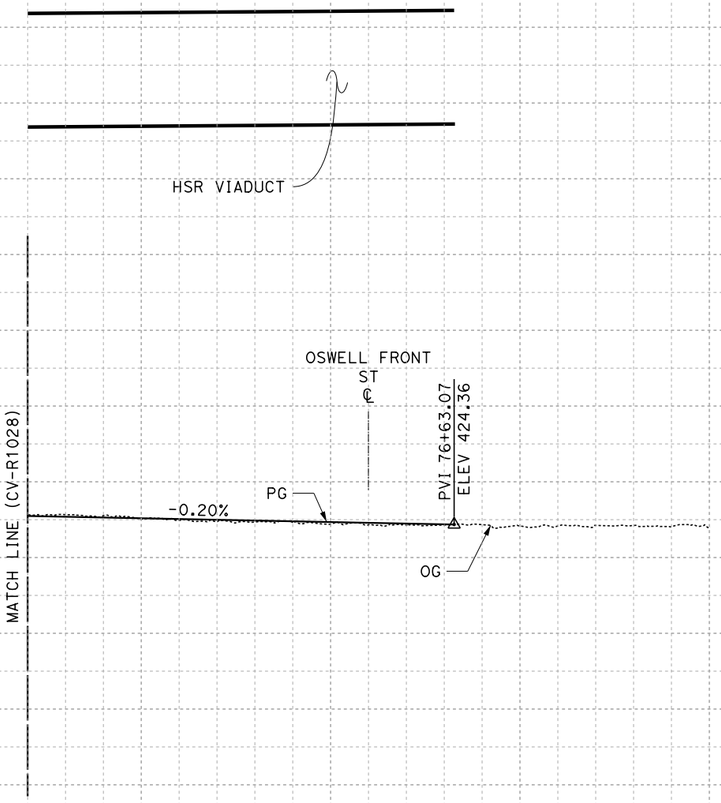
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

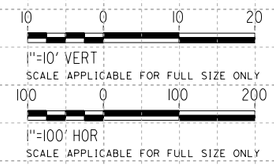
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



PROFILE
"EDI" LINE
EDISON HIGHWAY



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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. CV-R1029
SCALE AS SHOWN
SHEET NO.

CURVE DATA

NO.	R	Δ	T	L
①	1000.00′	3°55′14"	34.23′	68.43′
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

"ST1" 82+42.51 EC
"ST1" 81+74.08 BC
"ST2" 11+89.47 POT
="ST1" 80+00.00 POT

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

RETENTION POND
RETENTION POND

"ST2" LINE
STATION RD 2

"ST3" 40+00.00 POT
="ST2" 10+00.00 POT

"ST3" 43+10.15 POT
="F" 22+28.15 POT

"ST3" LINE
STATION RD 3

"MUP2" 16+15.75 EB
CARRIER CANAL MULTI-USE PATH
PEDESTRIAN BRIDGE
SEE BRIDGE PLANS
"MUP2" 15+11.75 BB

FB LGA NB HSR ℄
FB LGA SB HSR ℄

PEDESTRIAN BRIDGE
BR NO XX-XXXX
SEE BRIDGE PLAN

MULTI-USE PATH 2

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

"MUP2" 36+73.70 EB
"MUP2" 35+35.20 BB

"MUP2" 10+60.18 BC
"MUP2" 14+72.19 EC
"MUP2" 14+03.35 BC
"MUP2" 10+00.00 POT
= 86′ LT "SR204" 84+57.16
"MUP2" 11+08.11 EC
"MUP2" 16+55.57 BC
"MUP2" 17+80.04 EC
"MUP2" 18+21.15 BC

"MUP2" LINE

"MUP2" 29+80.38 EC
"MUP2" 29+19.73 BC
"MUP2" 27+46.01 EC
"MUP2" 26+83.54 BC

POND

PEDESTRIAN BRIDGE
BR NO XX-XXXX
SEE BRIDGE PLAN

"MUP1" 26+83.81 POT
="MUP2" 35+03.68 POT

* PUMP STATION

"MUP1" 24+60.39 AP
"MUP1" 23+25.23 AP
"MUP1" 23+11.73 AP
"MUP1" 21+17.88 AP
"MUP1" 20+92.98 EC

"MUP1" LINE
MULTI-USE PATH 1

"F" LINE
F ST
RW NO F1 R

MATCH LINE (CV-T1042)

CARRIER CANAL
BR NO 50-0208
WIDENING
SEE BRIDGE PLAN

"MUP2" 19+10.20 EC

SAW CUT

SR-204

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

100 0 100 200
1"=100′ HOR
SCALE APPLICABLE FOR FULL SIZE 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

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

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'

MATCH LINE (CV-T1041)

"ST1" LINE
STATION RD 1
"ST6" LINE
STATION RD 6

"ST1" 86+68.22 POT
="34" 16+53.91 POT
"ST3" 45+15.73 POT
="ST5" 20+00.00 POT

"ST3" LINE
STATION RD 3

"ST4" LINE
STATION RD 4

"ST5" 21+73.00 POT
="ST4" 60+00.00 POT
"MUP2" 38+13.27 POT
="ST5" 21+98.50 POT

"MUP2" LINE
MULTI-USE PATH 2

"ST5" LINE
STATION RD 5

"ST5" 23+50.43 POT
="32" 80+00.00 POT

"32" LINE
32ND ST

"ST1" 90+19.48 BC
"ST1" 92+14.79 EC
"ST1" 92+19.10 POT
="ST3" 51+38.73 POT
"ST1" 93+92.10 POT
="ST4" 66+22.99 POT
S-INT-FST-H3*
SEE AUTOMATIC
TRAIN CONTROL
SITE PLAN

"ST6" 39+96.06 POT
"ST3" 48+82.39 POT
"ST4" 63+66.66 POT
="ST6" 41+69.06 POT
"ST6" 41+94.56 POT
="MUP2" 41+79.93 POT

"MUP2" 45+73.67 BC
"MUP2" 45+19.27 EC

"32" 89+79.55 BC
"32" 89+08.43 POT
="MUP2" 46+47.28 POT

"32" 86+35.18 BC
"32" 88+69.66 EC
"32" 84+90.80 EC
"32" 84+78.38 BC
"32" 83+84.56 AP

"32" 82+07.93 BC
"32" 82+74.21 PRC
"32" 83+28.73 EC
"32" 83+67.46 POT
="ST6" 43+58.49 POT

"32" 92+73.52 EC
"32" 92+84.52 PI
"MUP2" 49+56.29 PI
FARSIDE TURNOUT (OPEN BUS BAY)
GOLDEN EMPIRE TRANSIT FIGURE 11
"MUP2" 49+35.01 EC
"MUP2" 47+41.63 BC
"MUP2" 46+80.48 EC
"MUP2" 46+64.77 BC

FB LGA NB HSR ℄
FB LGA SB HSR ℄

RETENTION POND
* PUMP STATION

SR-204

UPPR

RW NO F1R

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'

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE 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

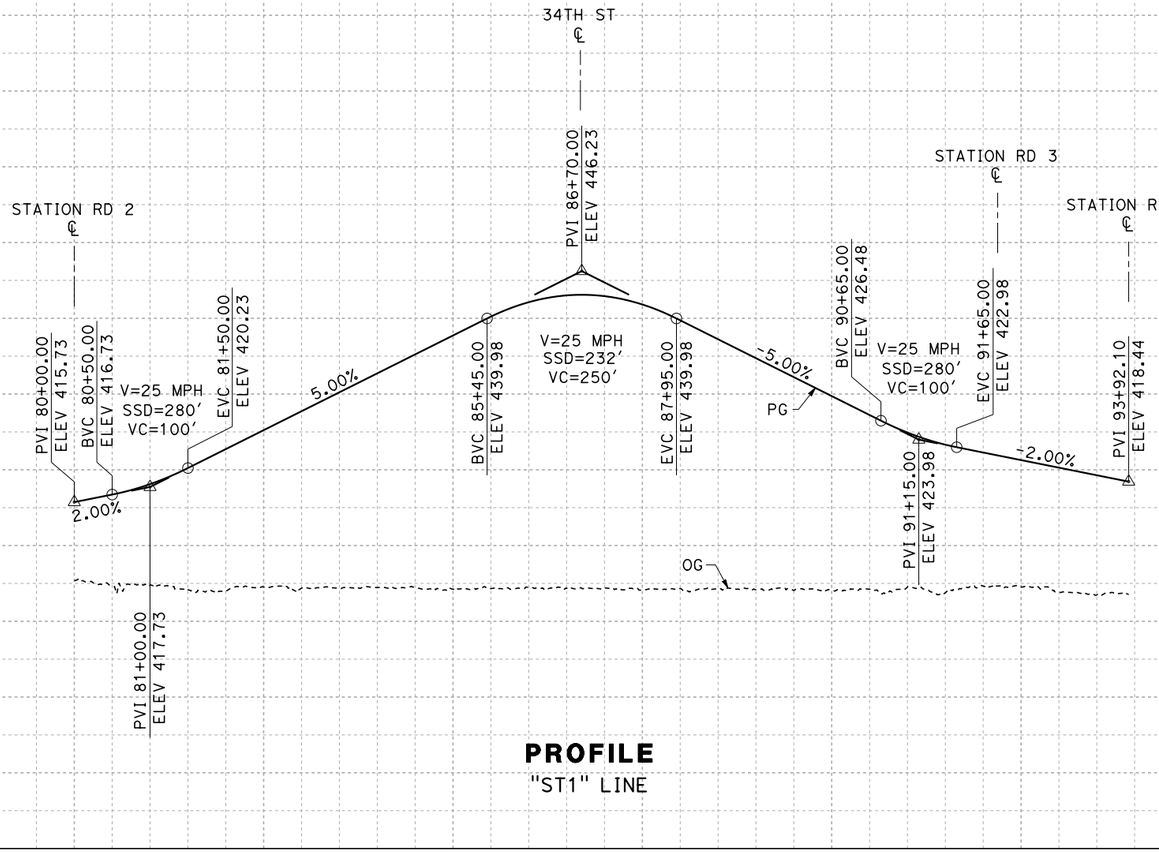
RECORD SET
PEPD DESIGN
SUBMISSION

TYLIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

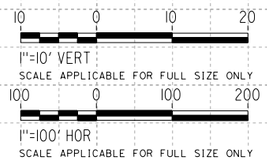
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
GRADE SEPARATION LAYOUT
STATION ROADWAY

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



PROFILE
"ST1" LINE

PROFILE
"ST2" LINE



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

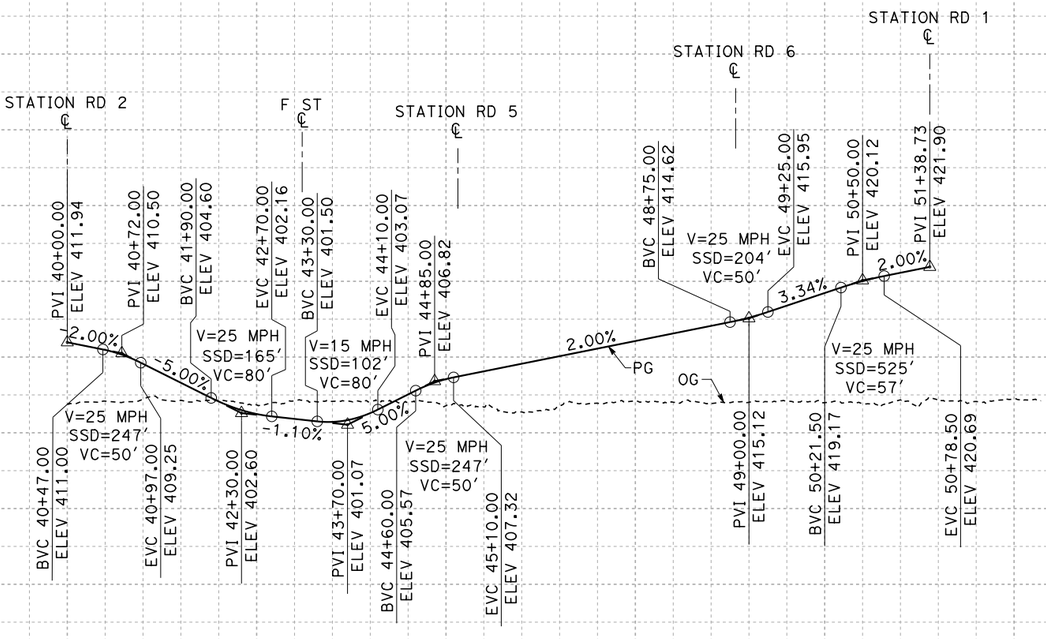
RECORD SET
PEPD DESIGN SUBMISSION

T.Y. LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. CV-T1043
SCALE AS SHOWN
SHEET NO.



PROFILE
"ST3" LINE

PROFILE
"ST4" LINE

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE 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

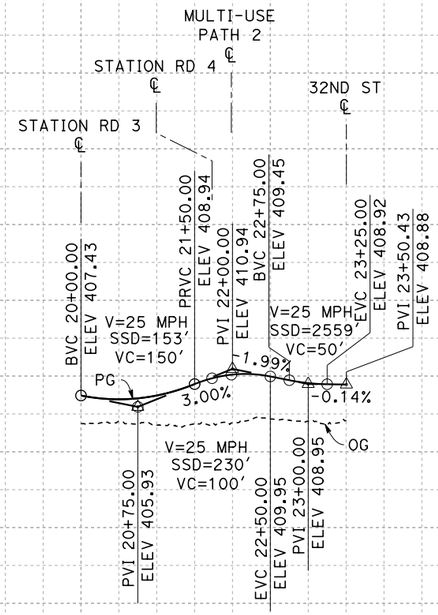
RECORD SET PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

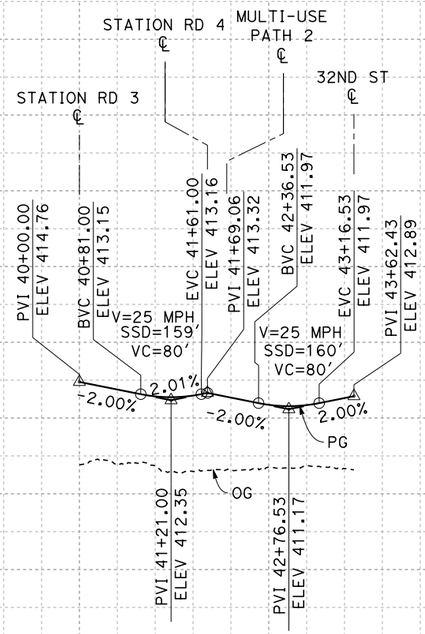
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

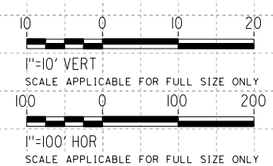
CONTRACT NO. HSR13-44
DRAWING NO. CV-T1044
SCALE AS SHOWN
SHEET NO.



PROFILE
"ST5" LINE



PROFILE
"ST6" LINE



15+00 20+00 25+00 40+00 45+00

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

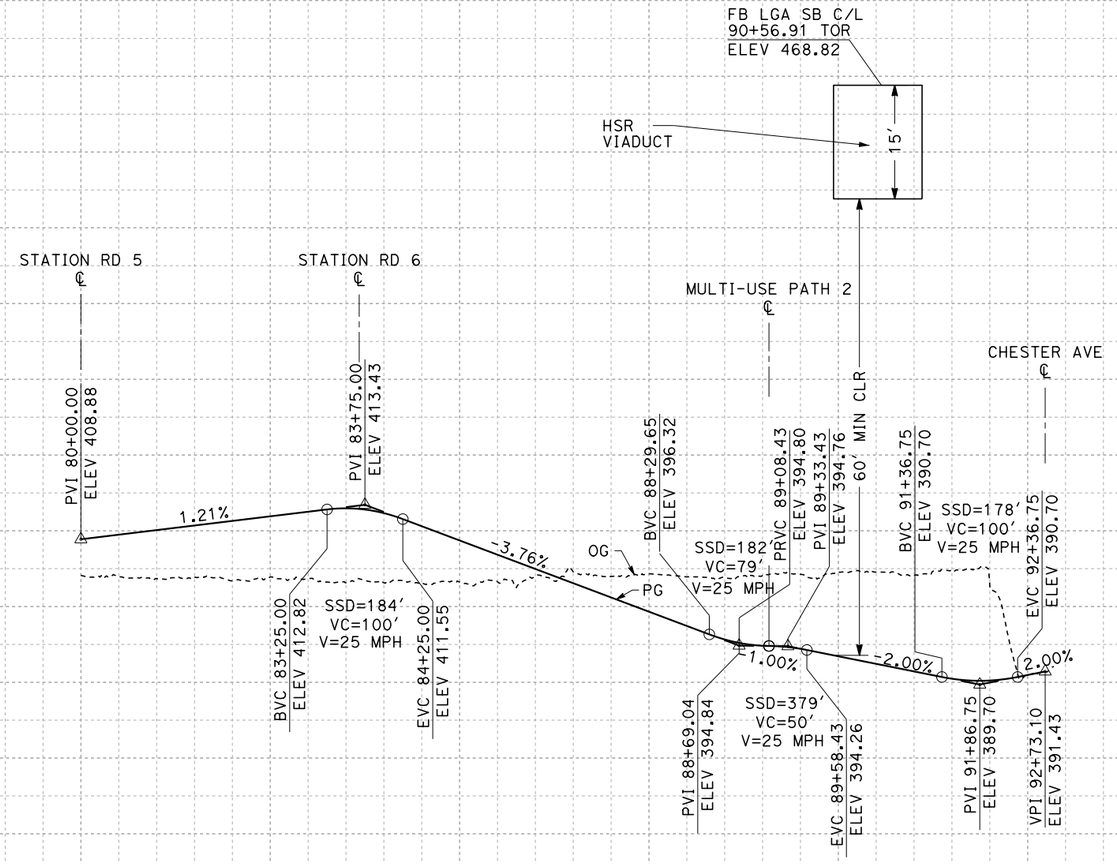
RECORD SET
PEPD DESIGN
SUBMISSION

TYLIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



PROFILE
"32" LINE
32ND STREET

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

T.Y. LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
GRADE SEPARATION PROFILE
32ND STREET

CONTRACT NO. HSR13-44
DRAWING NO. CV-T1046
SCALE AS SHOWN
SHEET NO.

460 450 440 430 420 410 400 390 380 370 360 350

5+00 10+00 15+00 20+00 25+00 30+00

30TH ST
℄

PVI 10+00.00
ELEV 407.06

-0.48%

OG

BVC 20+36.03
ELEV 402.04

PVI 21+36.03
ELEV 401.55

SSD=539′
VC=200′
V=35 MPH

EVC 22+36.03
ELEV 399.55

BVC 22+98.93
ELEV 398.29

2.00%

SSD=444′
VC=400′
V=35 MPH

PVI 24+98.93
ELEV 394.29

PG

EVC 26+98.93
ELEV 398.29

2.00%

PVI 28+15.50
ELEV 400.63

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

PROFILE

"GO" LINE

GOLDEN STATE AVENUE SOUTH FRONTAGE

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
GRADE SEPARATION PROFILE
GOLDEN STATE AVENUE SOUTH FRONTAGE

CONTRACT NO. HSR13-44
DRAWING NO. CV-T1049
SCALE AS SHOWN
SHEET NO.

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′

CHESTER AVE
"CHE" 16+72.76 POT
"K" 16+00.00 POT
36TH ST
"CHE" 19+00.00 CONFORM
ROADWAY ROW
CONFORM
"CHE" 20+94.34 BC
"34" 23+71.82 BC
"34" 23+30.05 POT ="CHE" 22+37.92 POT
"MUP3" 22+61.19 POT ="34" 22+41.19 42′ Lt
MULTI-USE PATH 3 "MUP3" LINE
"MUP3" 21+30.11 EC
RET WALL NO. 340
"34" 19+61.05 EC
"MUP3" 18+15.00 POT ="34" 18+14.54
STATION RD 1
"34" 17+96.22 EB
34TH STREET OH BR NO XX-XXXX SEE BRIDGE PLAN
RET WALL NO. 341
ROADWAY ROW
CONFORM
RET WALL NO. 342
"34" 17+43.46 BC
SEE STATION PLANS
"34" 16+53.91 POT ="ST1" 86+68.22 POT
"ST1" LINE
"34" 16+85.88 BB
UPPR
"CHE" LINE
"K" LINE
K ST
L ST
M ST
"K" 20+00.00 CONFORM
"34" 26+89.48 POT ="K" 22+10.03 POT
"34" 29+05.29 BC
"34" 30+90.17 EC
"34" 31+00.00 CONFORM
"34" LINE
34TH ST
"34" 36+21.34 POT
TOE OF FILL
"34" 25+16.49 EC
"K" 24+00.00 CONFORM
"CHE" 27+47.55 BC
"K" 26+30.97 POT
33RD ST
"CHE" 26+00.00 CONFORM
100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE 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

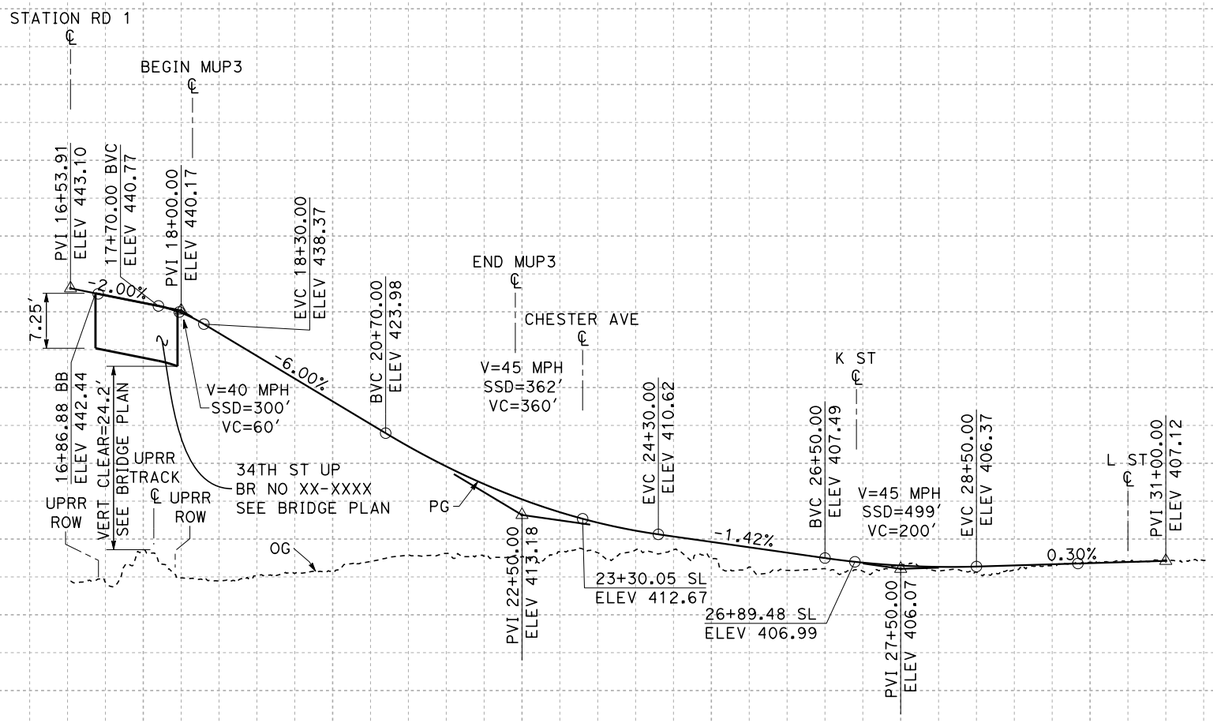
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

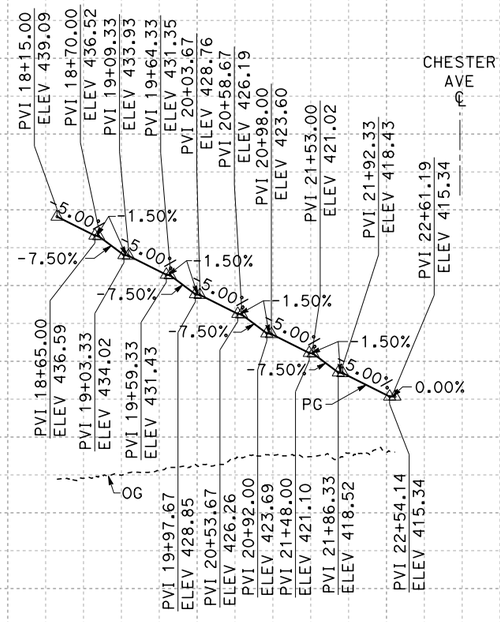
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

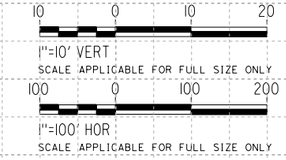
CONTRACT NO. HSR13-44
DRAWING NO. CV-T1050
SCALE AS SHOWN
SHEET NO.



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

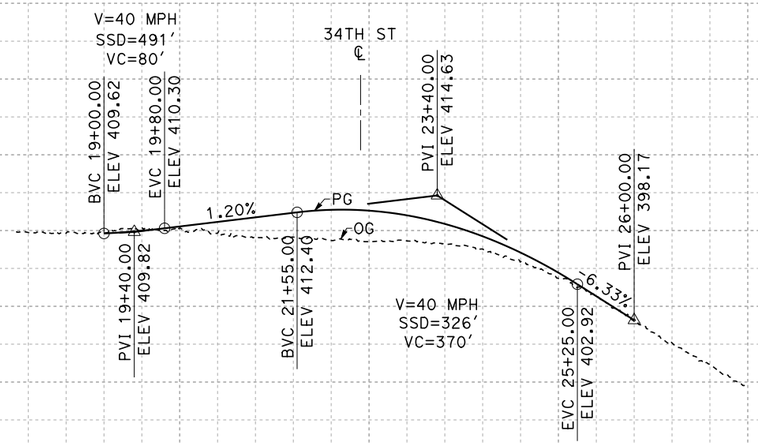
RECORD SET
PEPD DESIGN
SUBMISSION

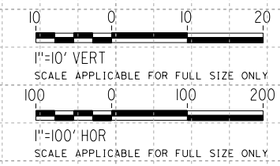
T·Y LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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.





PROFILE

"CHE" LINE
CHESTER AVENUE

430 420 410 400 390 380 370

15+00 20+00 25+00 30+00

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

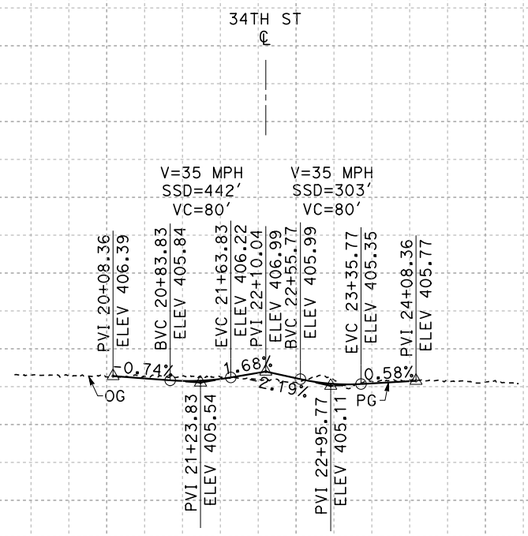
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

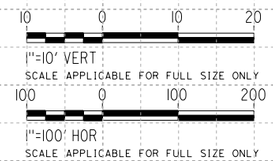
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
GRADE SEPARATION PROFILE
CHESTER AVENUE

CONTRACT NO. HSR13-44
DRAWING NO. CV-T1052
SCALE AS SHOWN
SHEET NO.



PROFILE
"K" LINE
K STREET



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

T·Y·LIN INTERNATIONAL

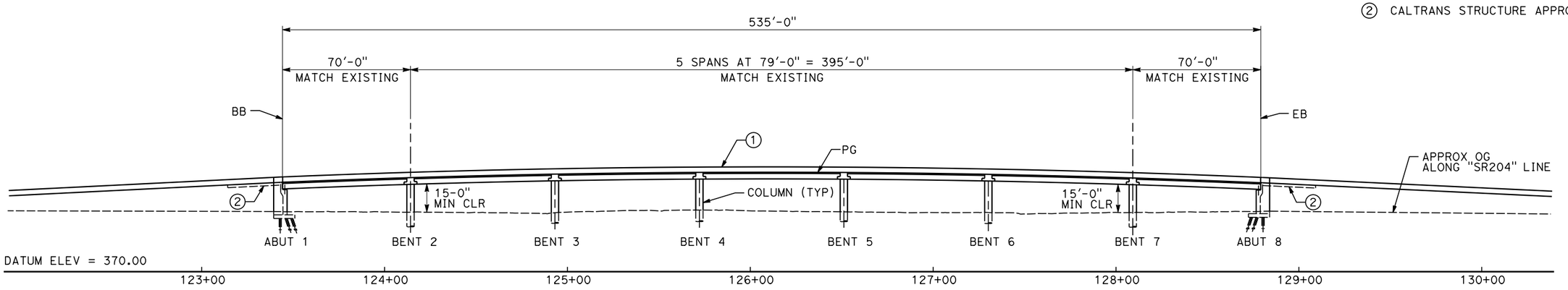
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

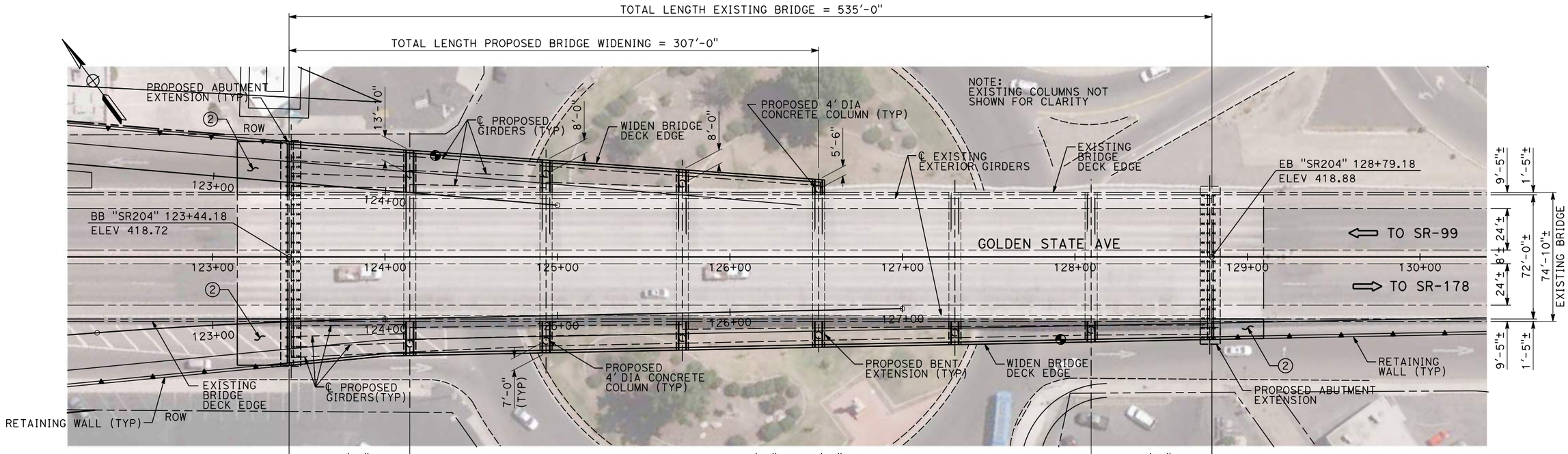
CONTRACT NO. HSR13-44
DRAWING NO. CV-T1053
SCALE AS SHOWN
SHEET NO.

NOTES

1. CALTRANS CONCRETE BARRIER TYPE 732 (MOD)
2. CALTRANS STRUCTURE APPROACH TYPE N (30S)



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

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

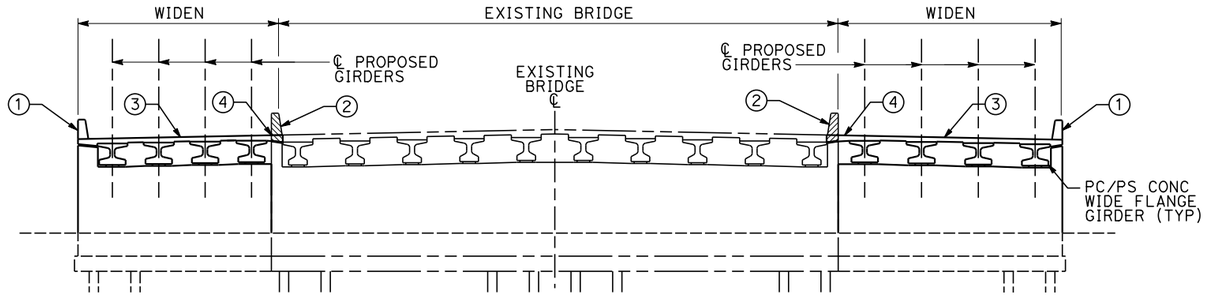
RECORD SET
PEPD DESIGN
SUBMISSION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

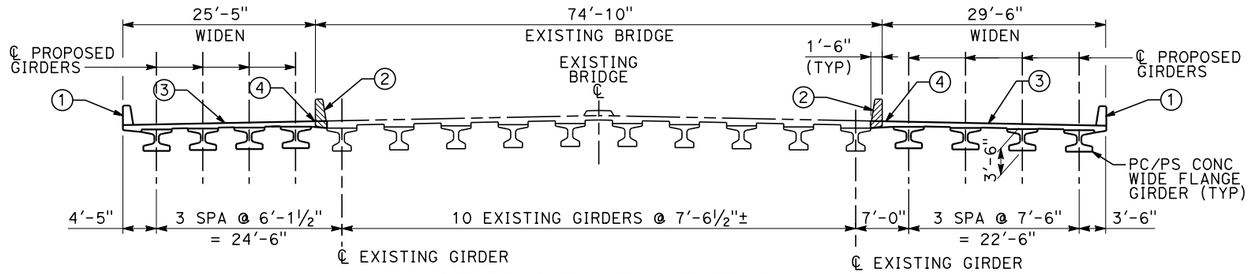
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
TRACK STRUCTURES / ROADWAY
DRAFT GENERAL PLAN
CHESTER AVE UC

CONTRACT NO. HSR13-44
DRAWING NO. CV-T7012
SCALE AS SHOWN
SHEET NO.



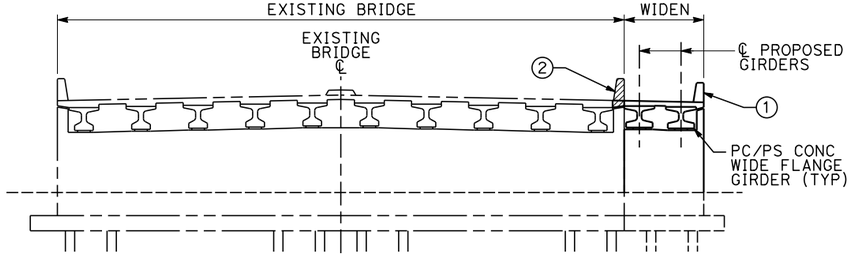
ABUTMENT 1 ELEVATION

SCALE: 1"=10'



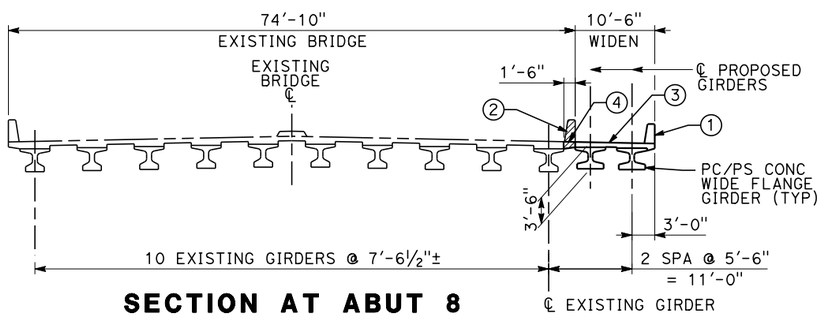
SECTION AT ABUT 1

SCALE: 1"=10'



ABUTMENT 8 ELEVATION

SCALE: 1"=10'

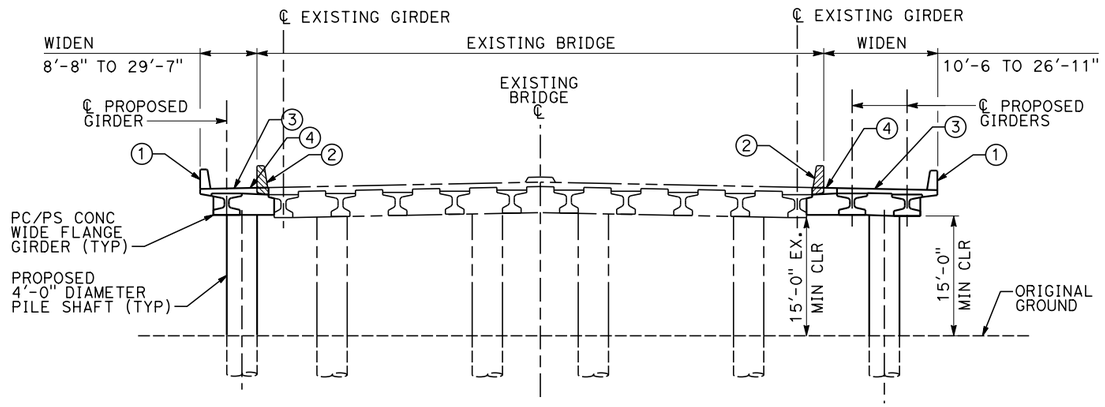


SECTION AT ABUT 8

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

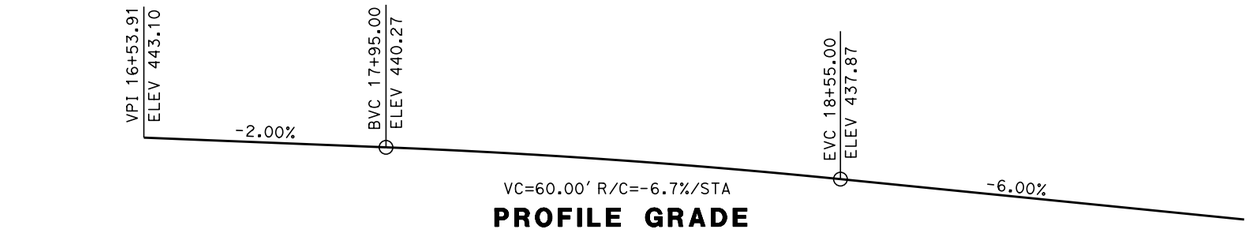
RECORD SET
PEPD DESIGN SUBMISSION

TYLININTERNATIONAL

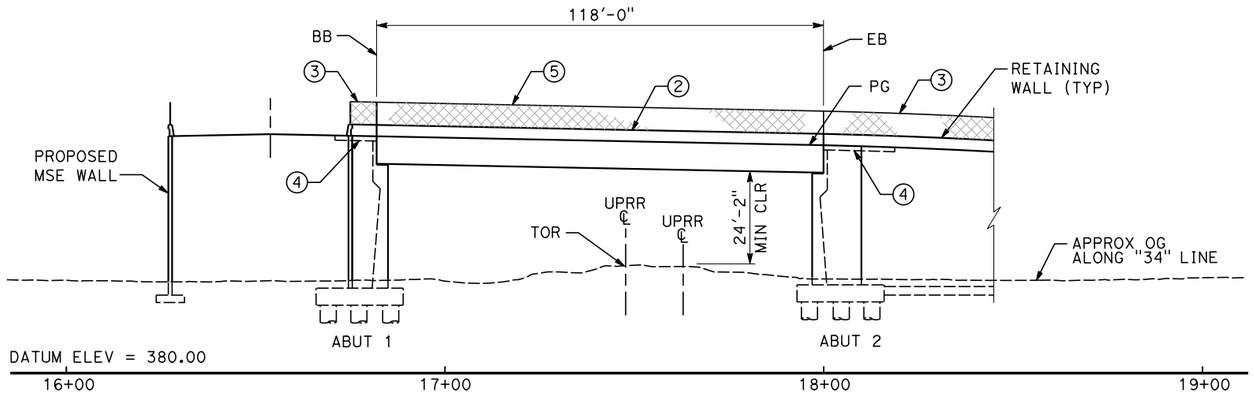
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

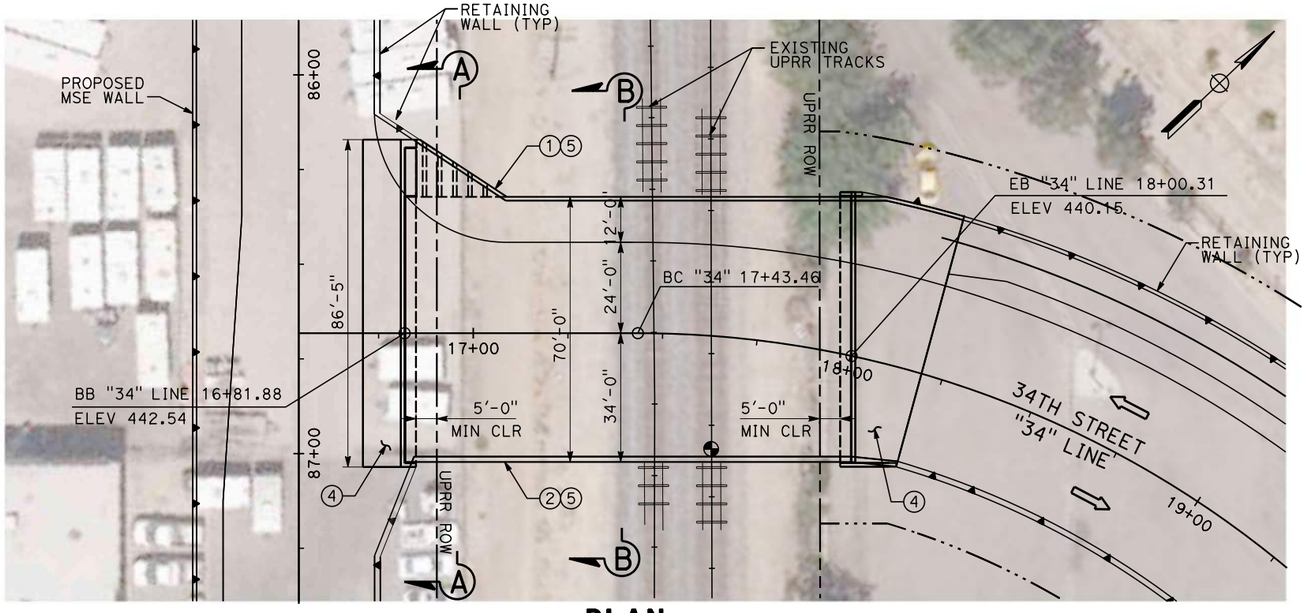
CONTRACT NO. HSR13-44
DRAWING NO. CV-T7013
SCALE AS SHOWN
SHEET NO.



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=20'



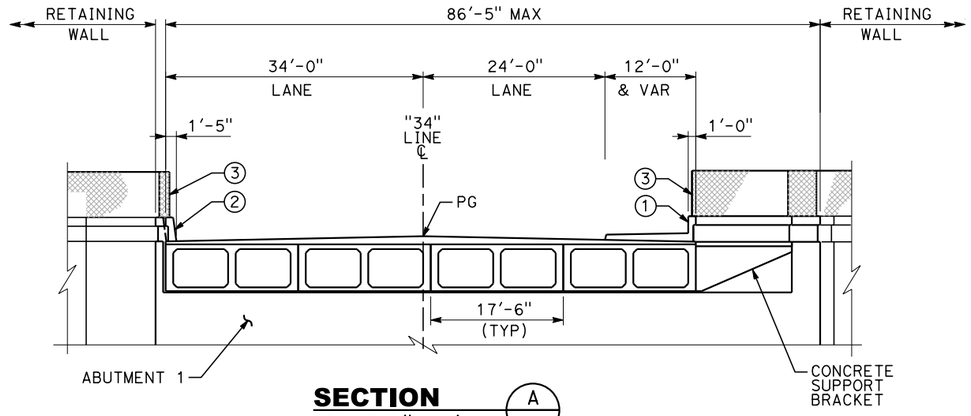
PLAN
SCALE: 1"=20'

NOTES

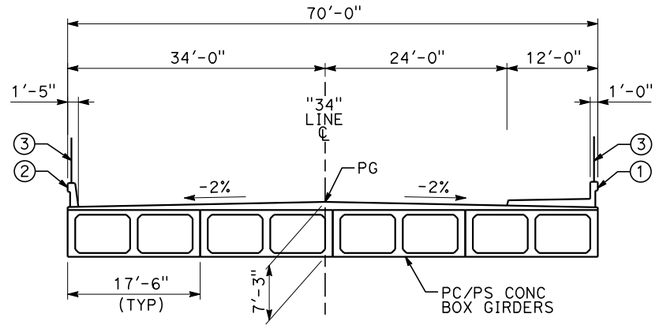
1. CALTRANS CONCRETE BARRIER TYPE 26 (MOD)
2. CALTRANS CONCRETE BARRIER TYPE 732 (MOD)
3. CALTRANS CHAIN LINK RAILING TYPE 7
4. CALTRANS STRUCTURE APPROACH TYPE N (30S)
5. CALTRANS CHAIN LINK RAILING TYPE 7 (MOD) MODIFIED FOR A 10'-0" MINIMUM COMBINED HEIGHT OF FENCE ON BARRIER OVER UPRR ROW

LEGEND

INDICATES UPRR RAILROAD



SECTION A
SCALE 1"=10'



SECTION B
SCALE 1"=10'

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

T.Y.LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

California High-Speed Rail Authority

Fresno to Bakersfield

Coordination Set
Locally Generated Alternative (LGA)

Elevated Structures Plans
January 2020

CALIFORNIA
High-Speed Rail Authority

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
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

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

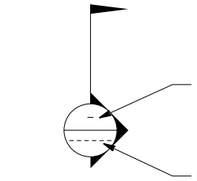
TY·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

LEGEND



NORTH ARROW

HSR	HIGH-SPEED RAIL
CIP	CAST IN PLACE
PC	PRECAST
P/S	PRESTRESSED
CIDH	CAST-IN-DRILLED HOLE
PPEF	PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
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
①	METAL BEAM GUARD RAIL

LOCATION OF MINIMUM VERTICAL CLEARANCE

PLATFORM

PILE FOOTING

CIDH PILE

COLUMN

INDICATES DIRECTION OF TRAVEL

GUIDEWAY RIGHT OF WAY

GUIDEWAY EASEMENT

TOE/TOP OF FILL

PTEF

PPEF

RETAINING WALL

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

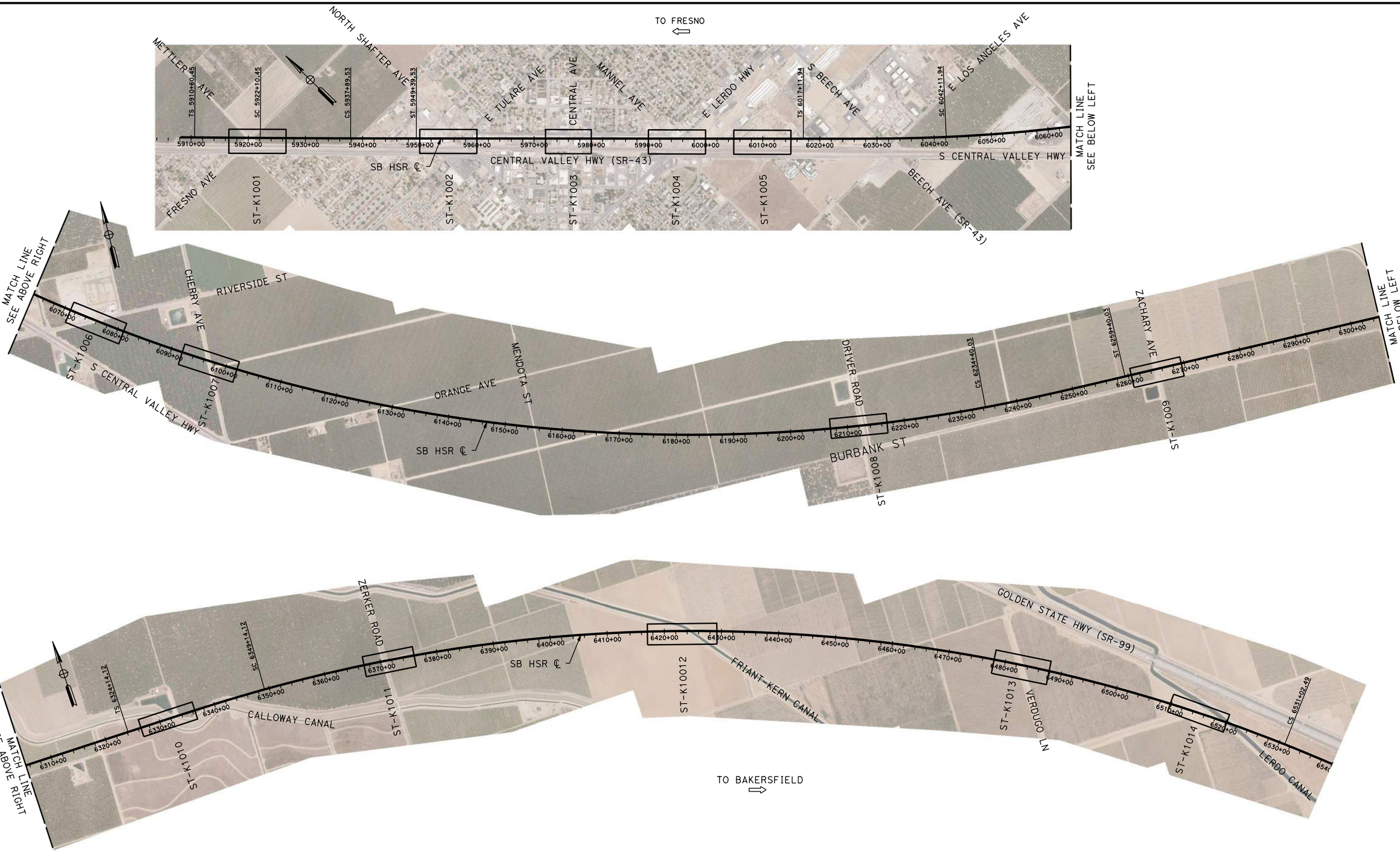
RECORD SET
PEPD DESIGN
SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: S. DULOR
DRAWN BY: D. WILEY
CHECKED BY: N. METWASHLA
IN CHARGE: S. DULOR
DATE: 02/06/17

RECORD SET
PEPD DESIGN
SUBMISSION

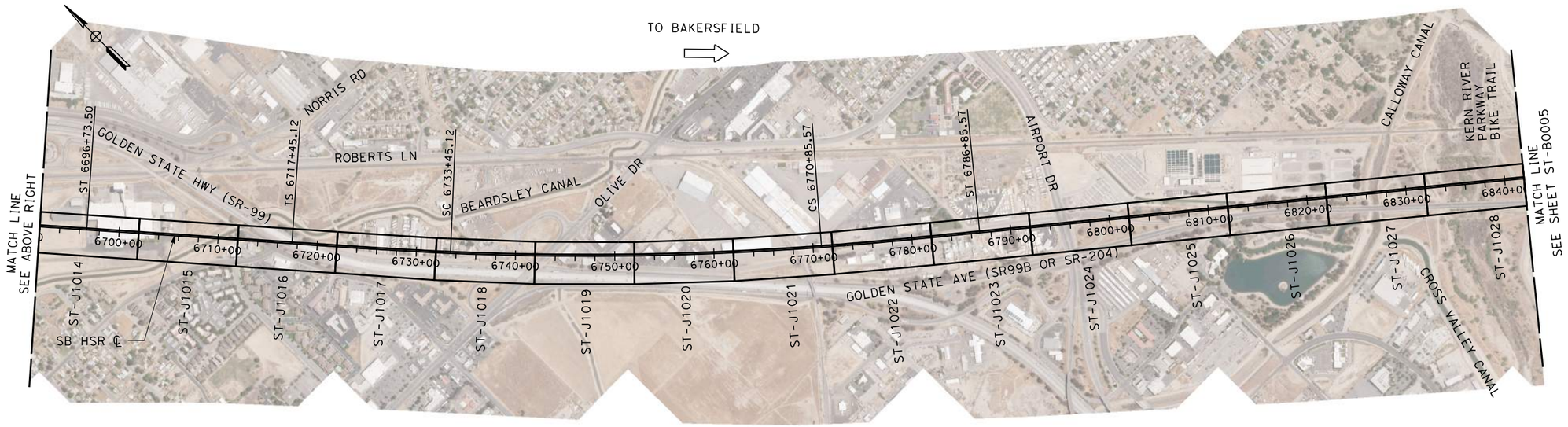
T·Y·LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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.

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

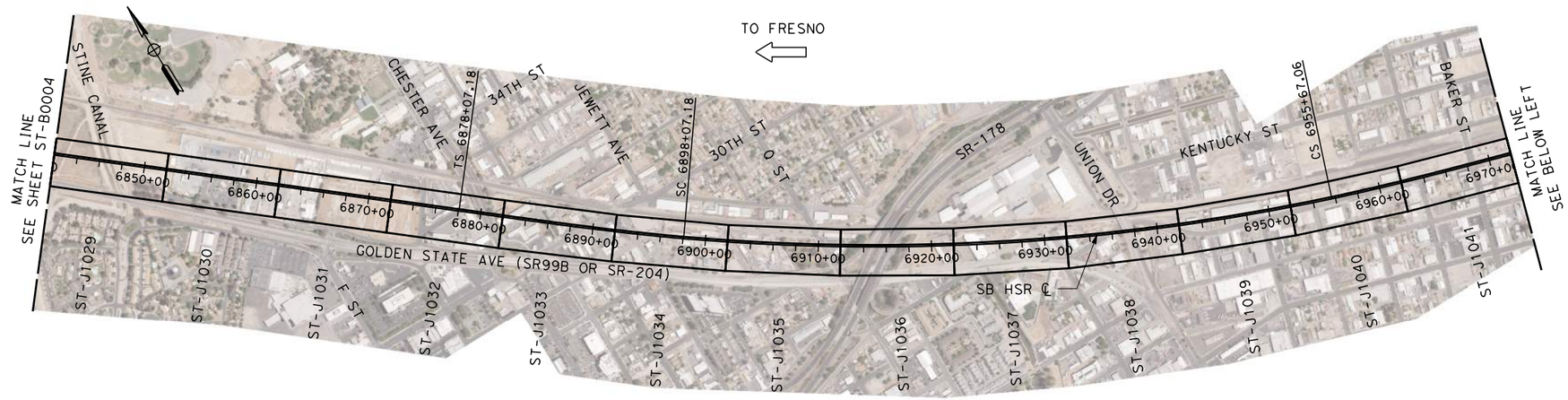
RECORD SET
PEPD DESIGN
SUBMISSION

T·Y·LIN INTERNATIONAL

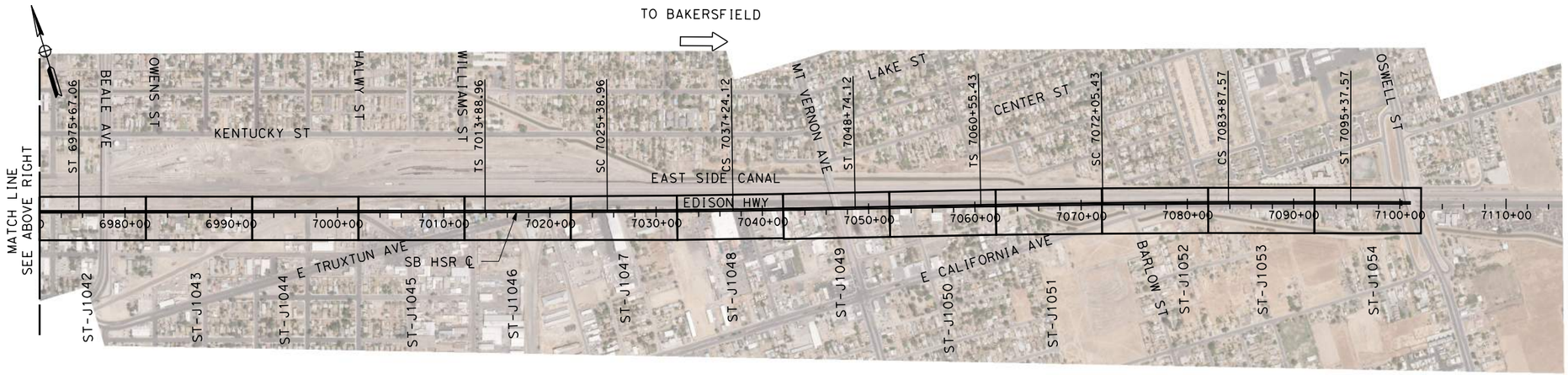
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



BAKERSFIELD 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

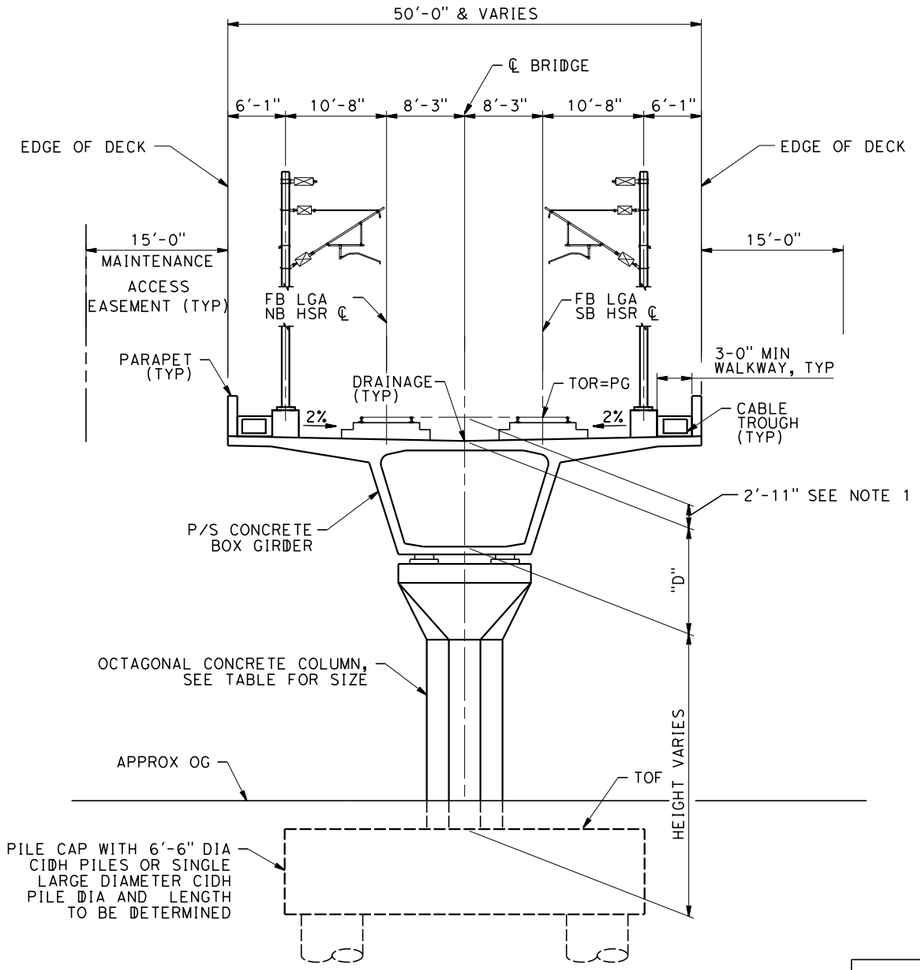
RECORD SET
PEPD DESIGN
SUBMISSION

TY·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

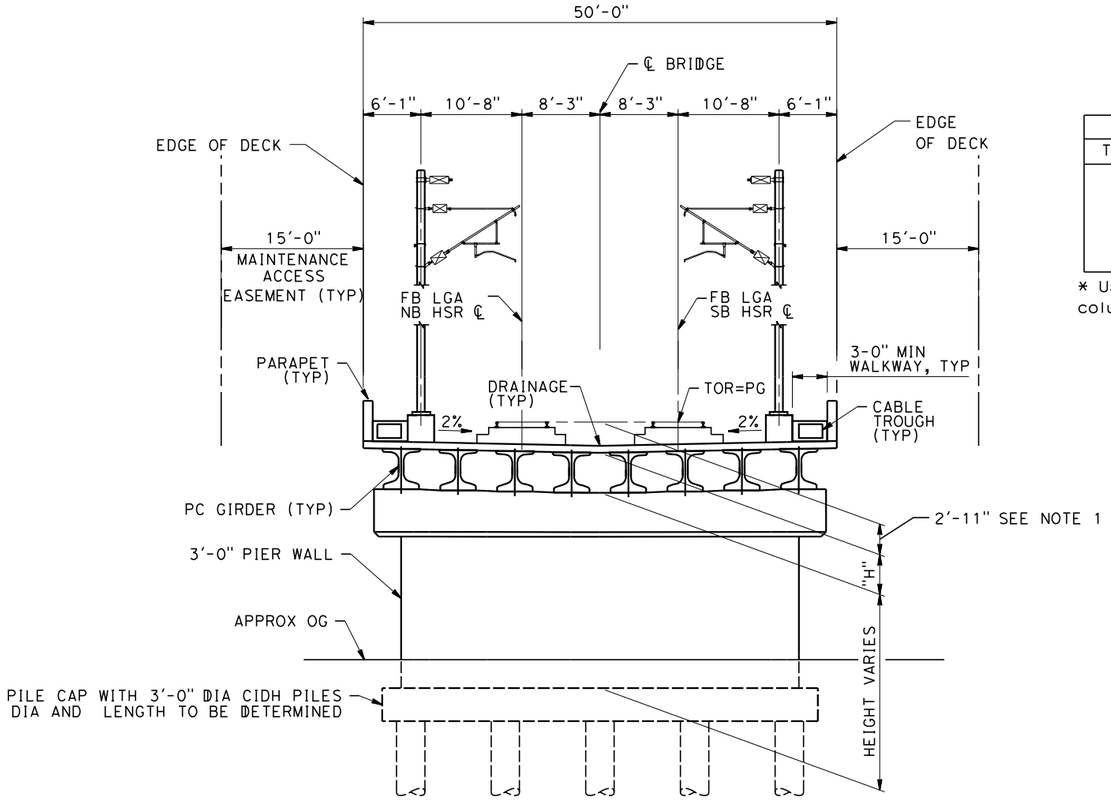


SECTION A

SCALE: 1½"=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: 1½"=1'-0"

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

STRUCTURE DEPTH	
LOCATION	"H"
DRIVER RD HST UP	5'-0"
ZACHARY RD HST UP	5'-0"
ZERKER RD HST UP	5'-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

T·Y·LIN INTERNATIONAL

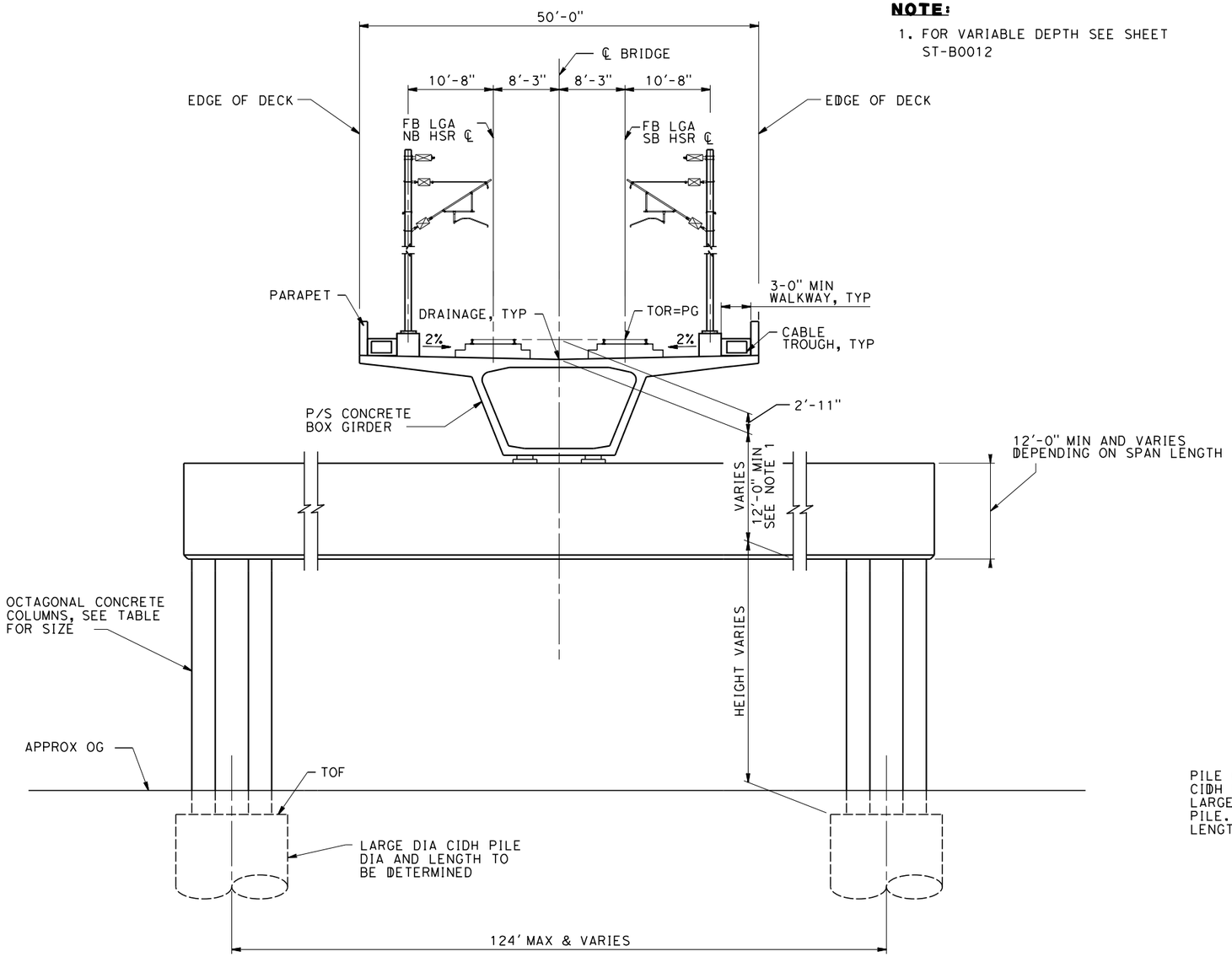
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

NOTE:

1. FOR VARIABLE DEPTH SEE SHEET ST-B0012



SECTION C

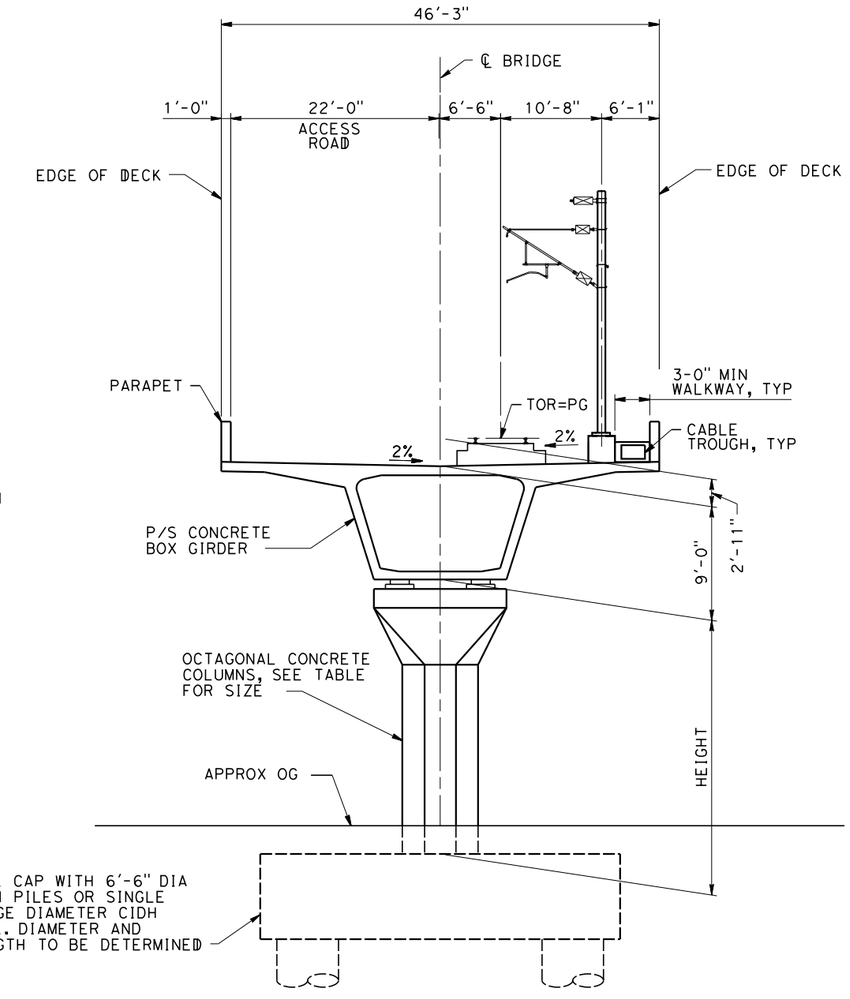
SCALE: 1½"=1'-0"

STATION 6421+40 TO 6422+60
STATION 6425+90 TO 6427+10
STATION 6780+00 TO 6784+40
STATION 6798+00
STATION 6801+30
STATION 6935+50

STATION 6940+90
STATION 6953+35 TO 6954+50
STATION 6967+35 TO 6969+40
STATION 6977+20 TO 6979+00
STATION 7000+80 TO 7002+15
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: 1½"=1'-0"

YL 920+50 TO YL 923+60

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

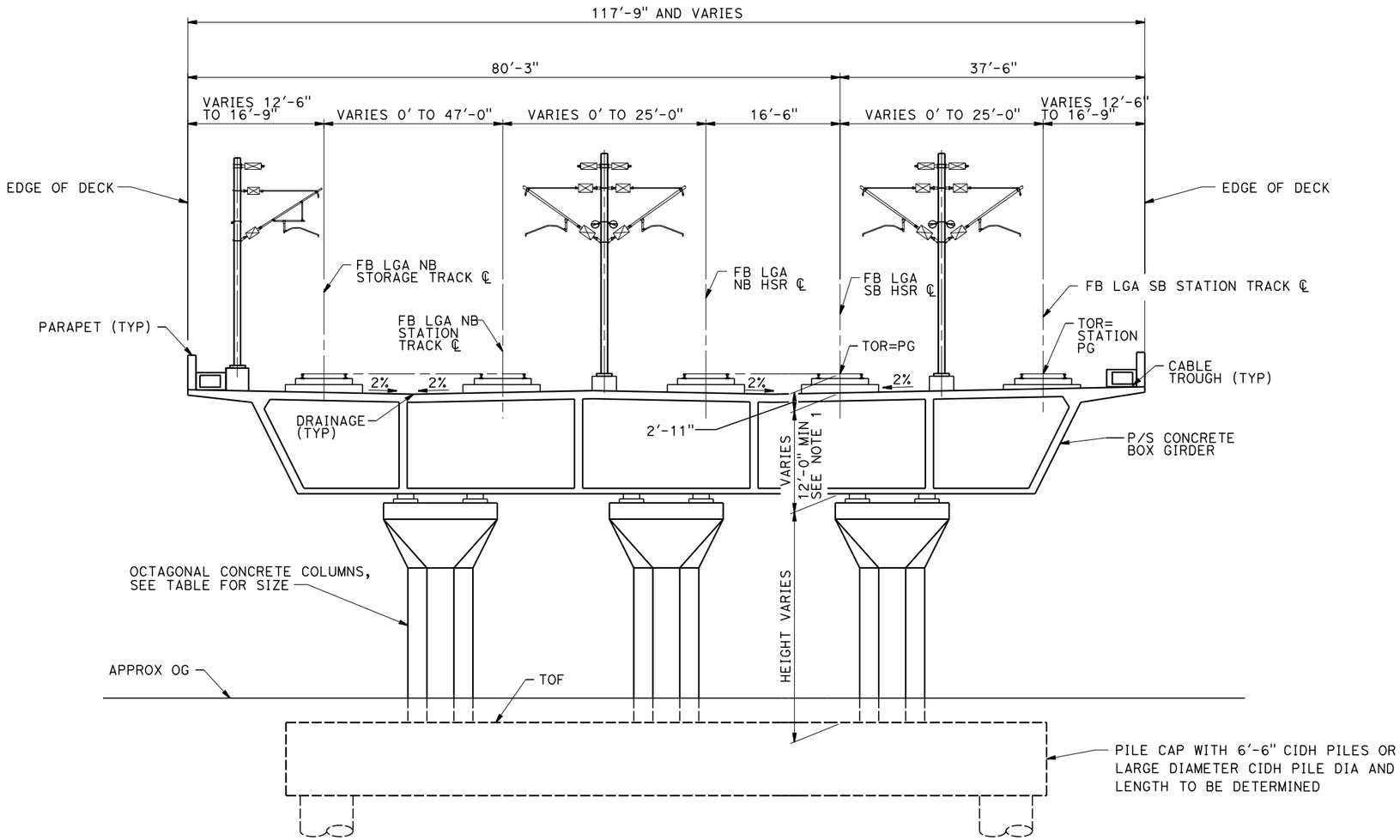
RECORD SET
PEPD DESIGN SUBMISSION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



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: 1½"=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

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

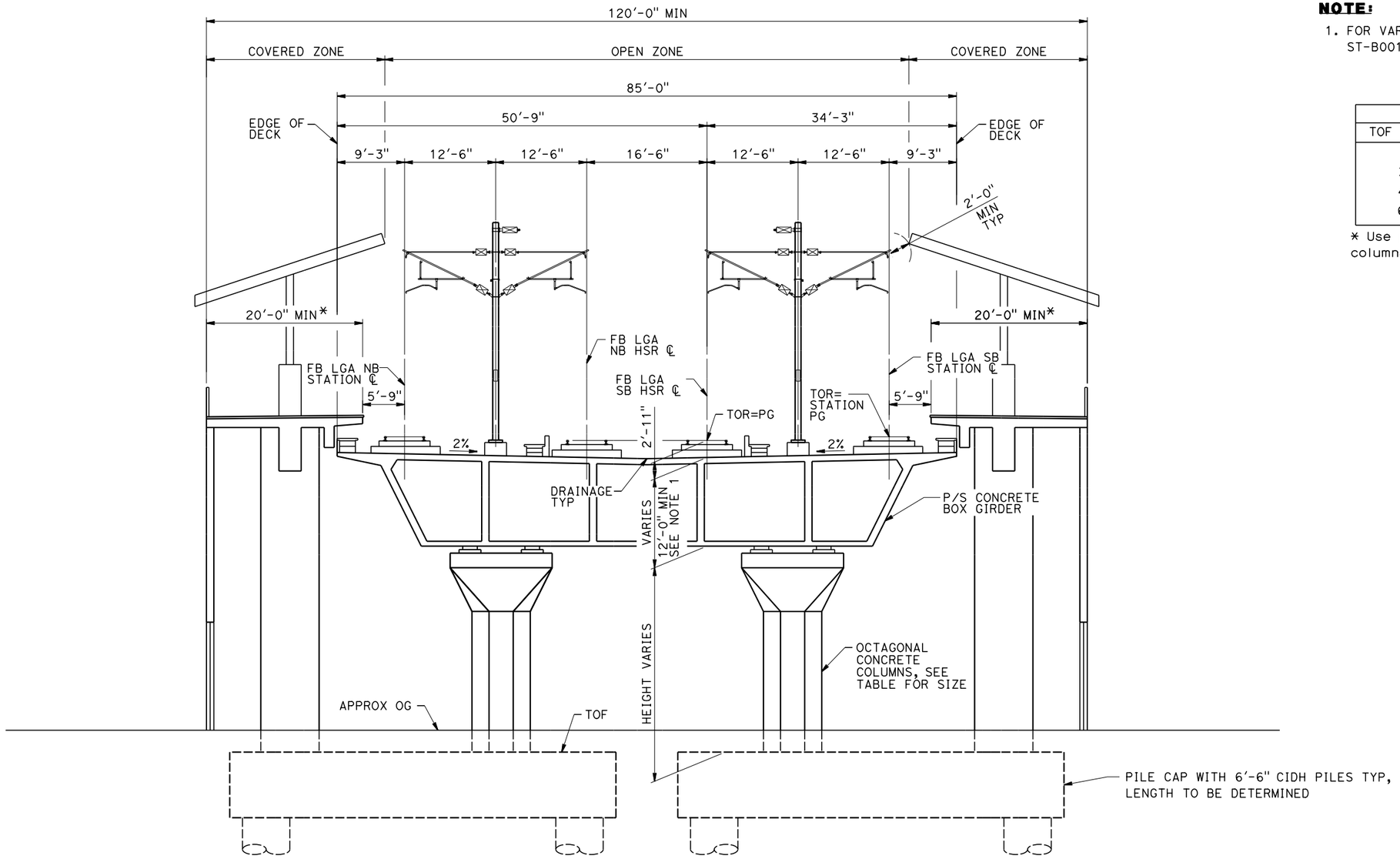
RECORD SET PEPD DESIGN SUBMISSION

TYLIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



SECTION E

SCALE: 1½"=1'-0"

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

STATION 6848+90 TO 6863+00

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

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

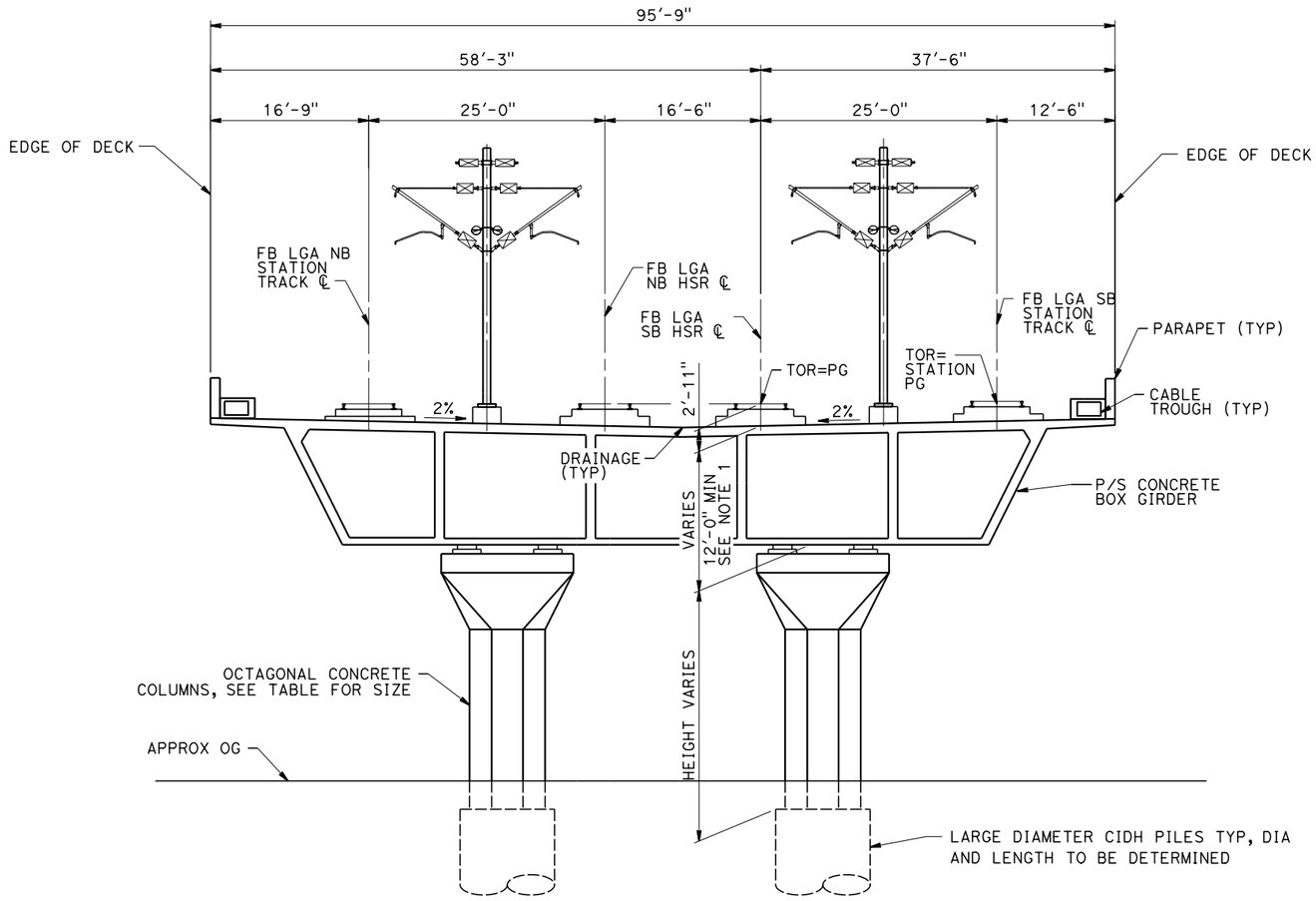
RECORD SET PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



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: 1½"=1'-0"

STATION 6845+30 TO 6848+90

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

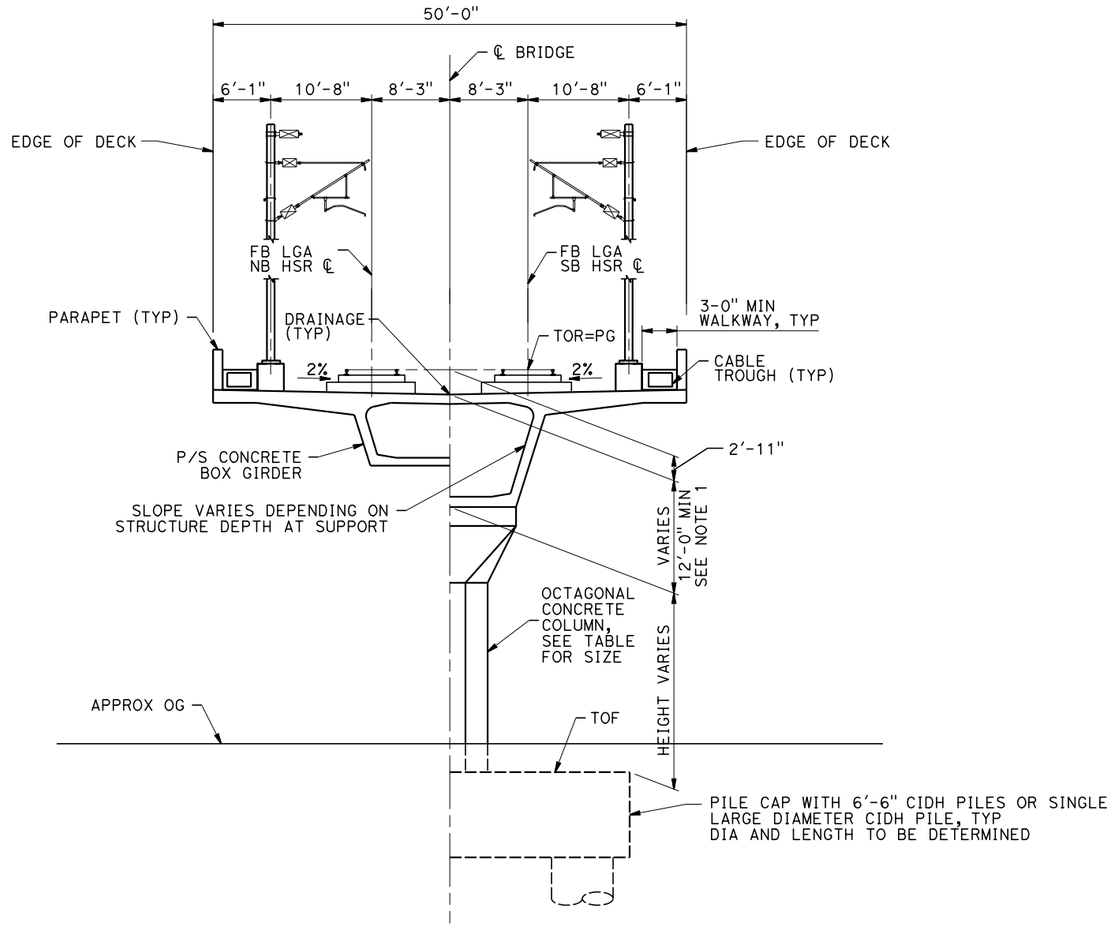
RECORD SET
PEPD DESIGN SUBMISSION

TY·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



SECTION G

SCALE: 1½"=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

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

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

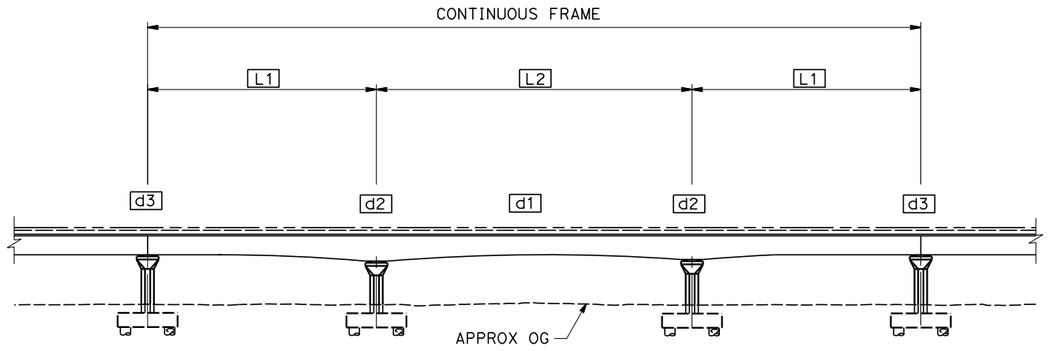
RECORD SET
PEPD DESIGN
SUBMISSION

T-Y-LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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.



VARIABLE DEPTH FRAME WHERE APPLICABLE

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

d1 = MAX(L2/20, 12'-0")
d2 = L2/12
d3 = 12'-0"

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

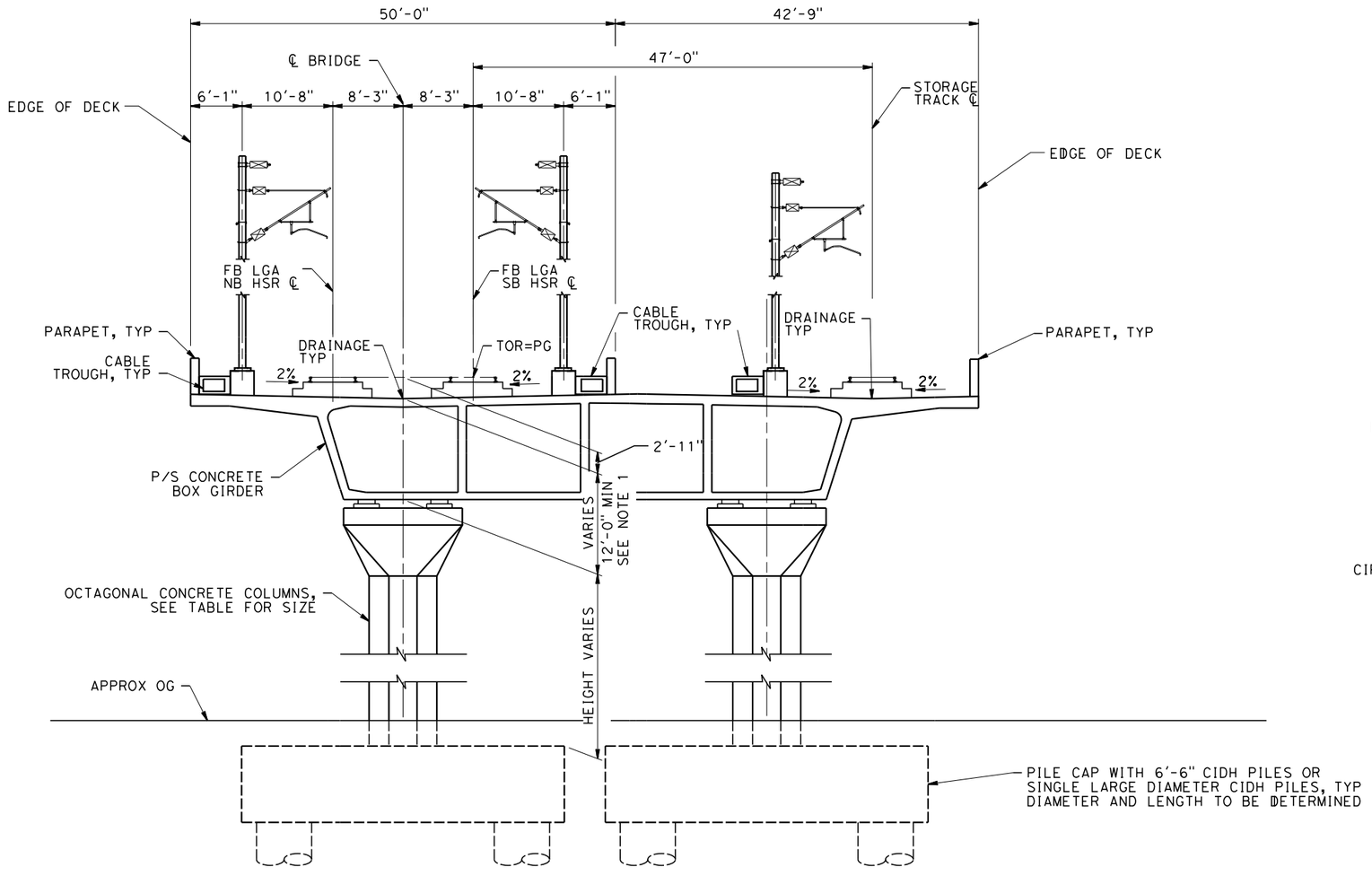
RECORD SET
PEPD DESIGN
SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
TYPICAL SECTION
SHEET 7 OF 9

CONTRACT NO. HSR13-44
DRAWING NO. ST-B0012
SCALE AS SHOWN
SHEET NO.



SECTION I

SCALE: 1½"=1'-0"

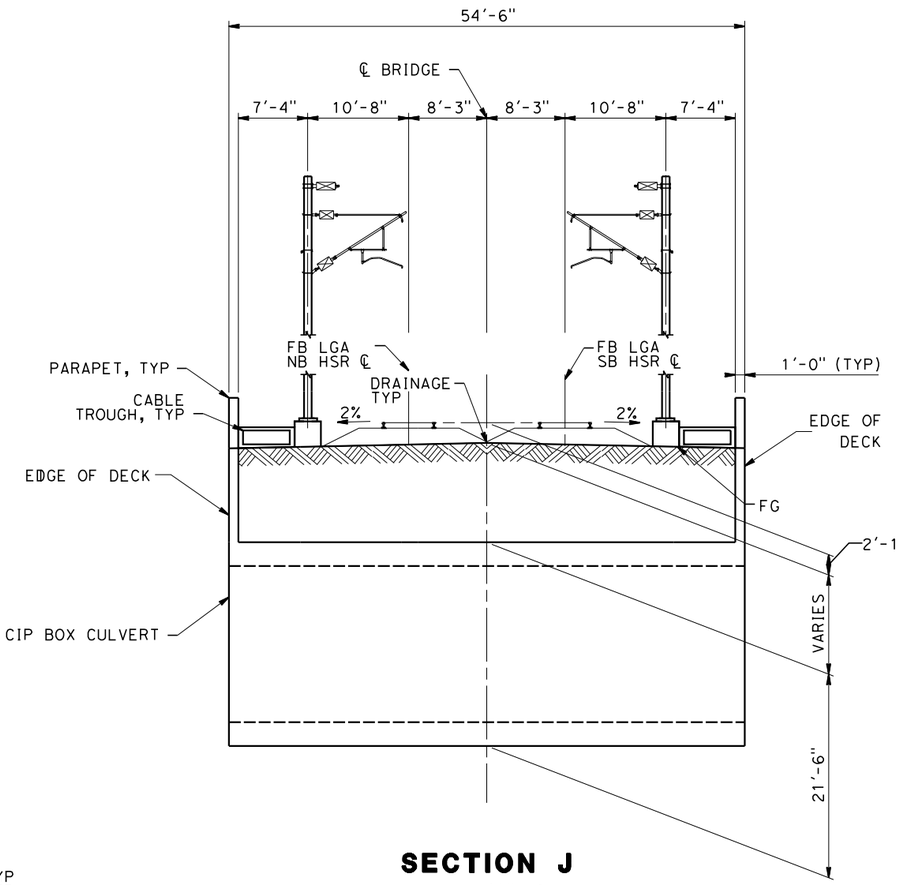
STATION 6872+65 TO 6884+75

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

* Use pile cap with 15' dia columns

NOTE:

1. FOR VARIABLE DEPTH SEE SHEET ST-B0012



SECTION J

SCALE: 1½"=1'-0"

STATION 6482+80 TO 6483+30

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

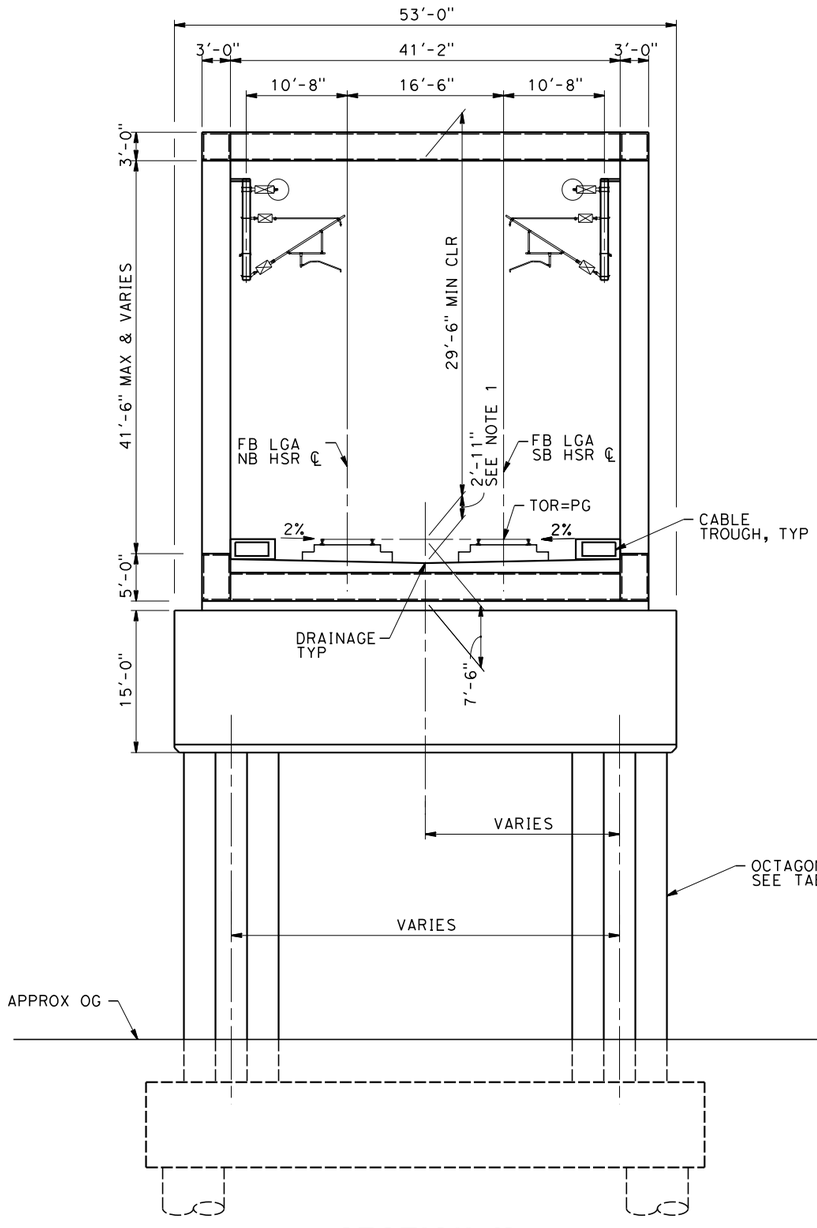
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

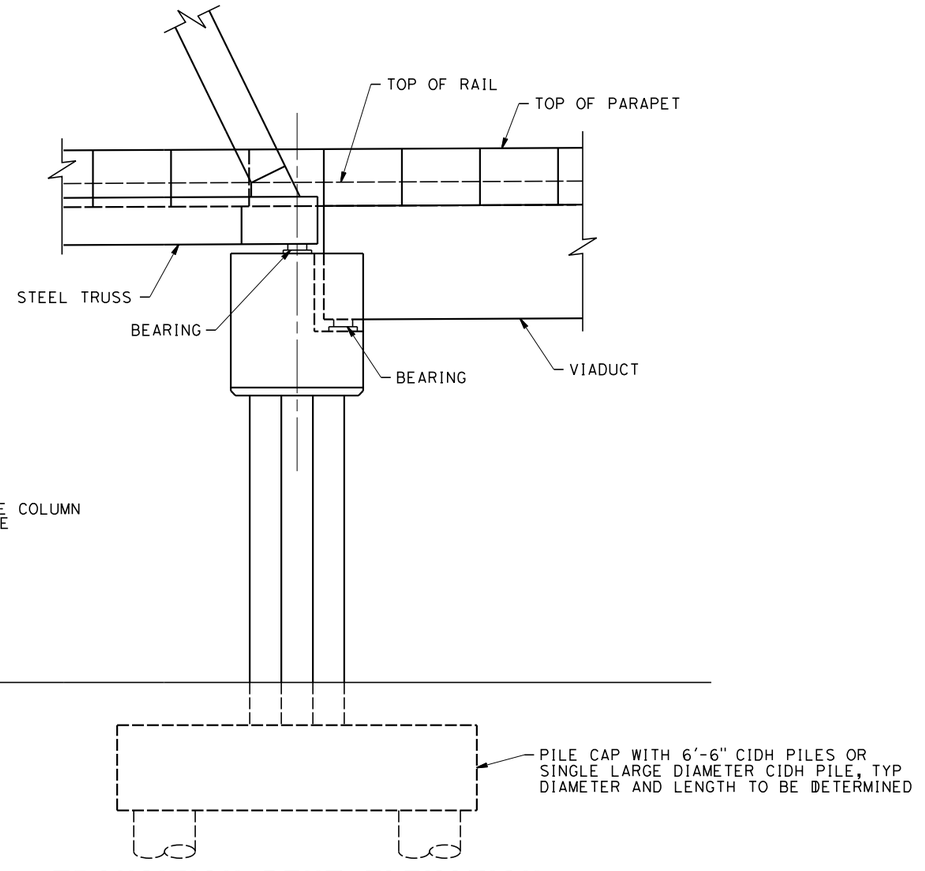
CONTRACT NO. HSR13-44
DRAWING NO. ST-B0013
SCALE AS SHOWN
SHEET NO.



SECTION K

SCALE: 1½"=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: 1½"=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

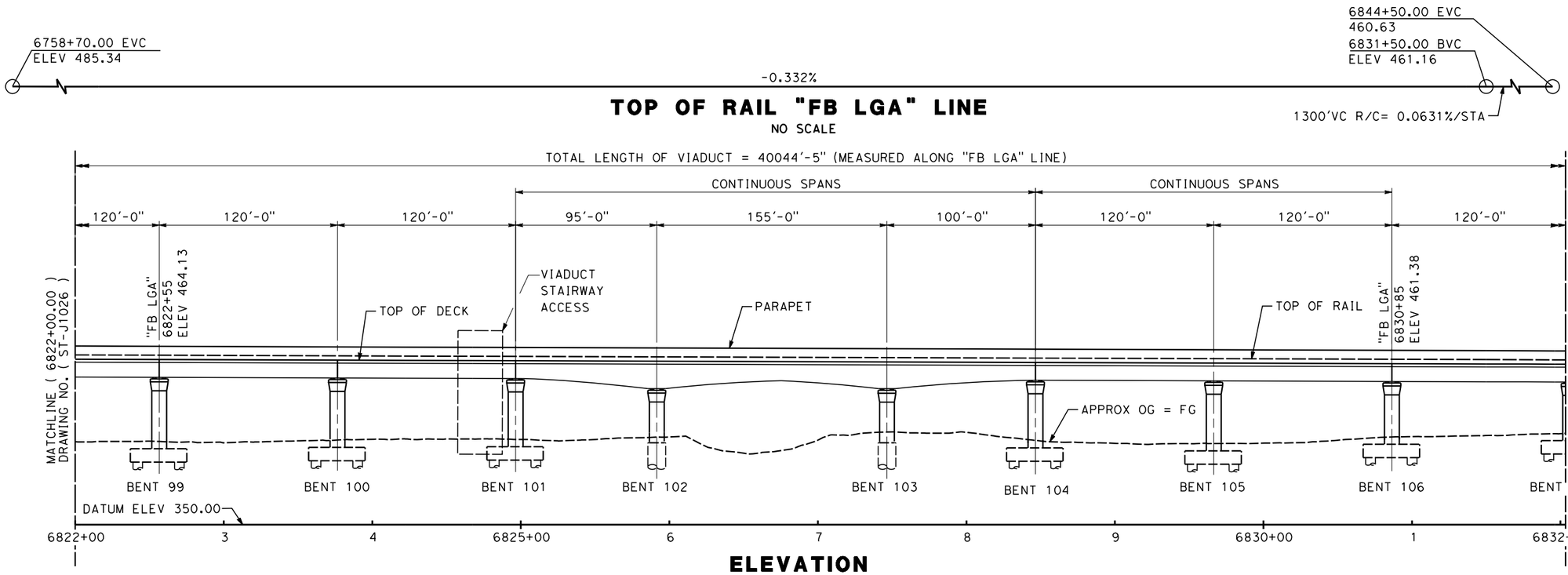
RECORD SET
PEPD DESIGN
SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

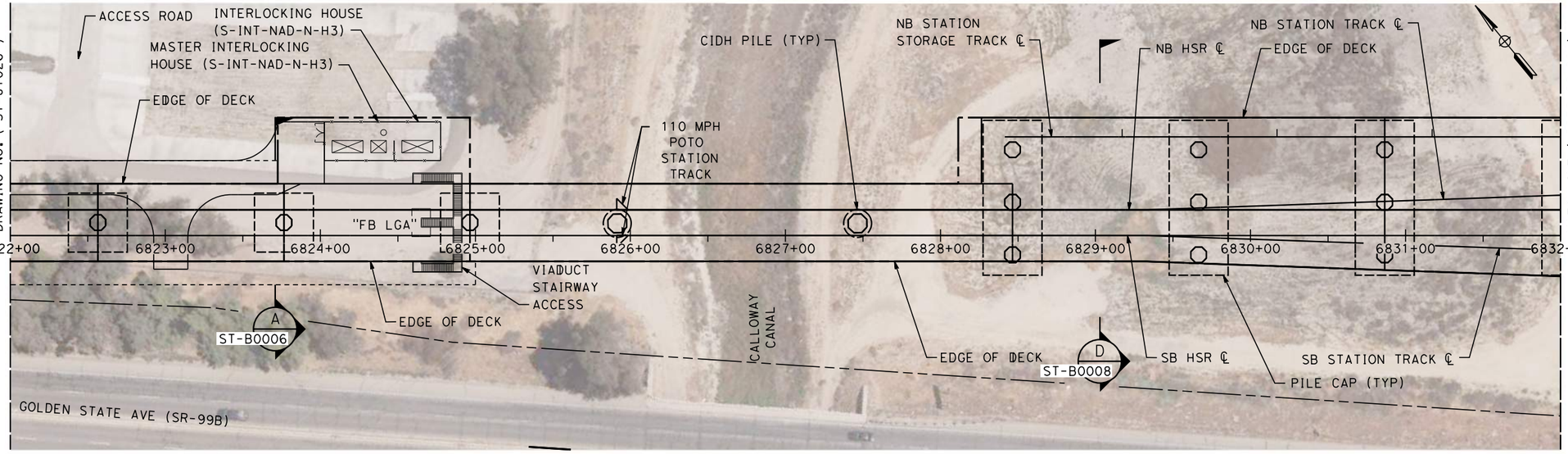


TOP OF RAIL "FB LGA" LINE

NO SCALE

ELEVATION

SCALE: 1" = 40'



40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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

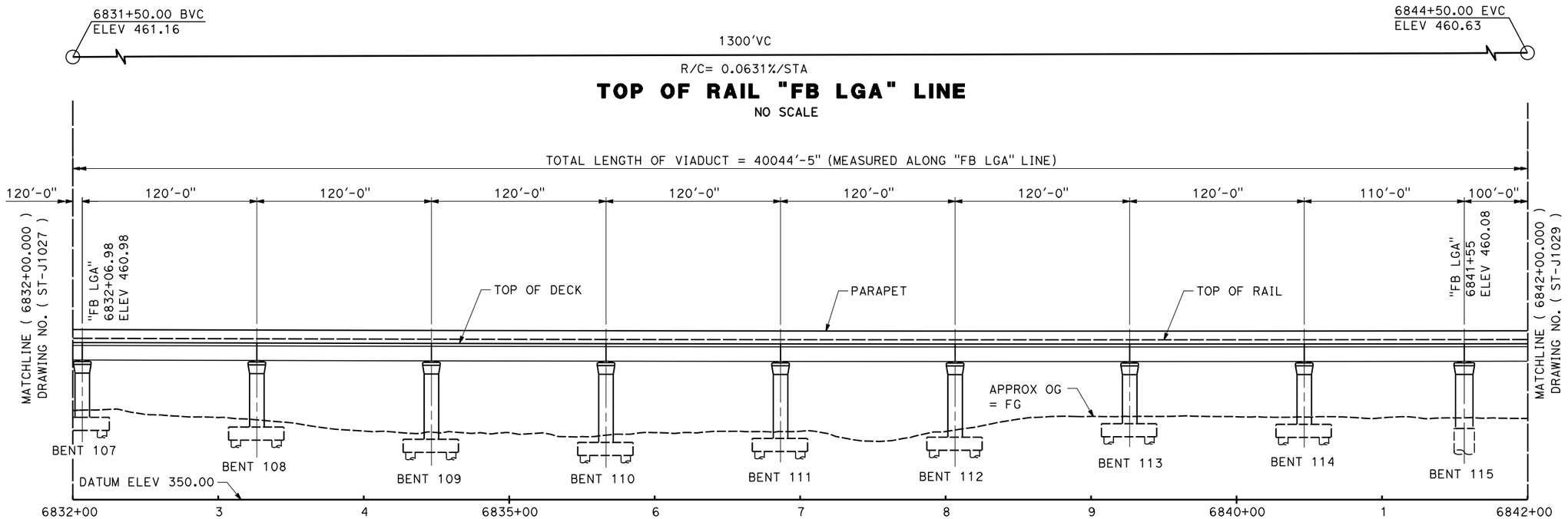
RECORD SET
PEPD DESIGN SUBMISSION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

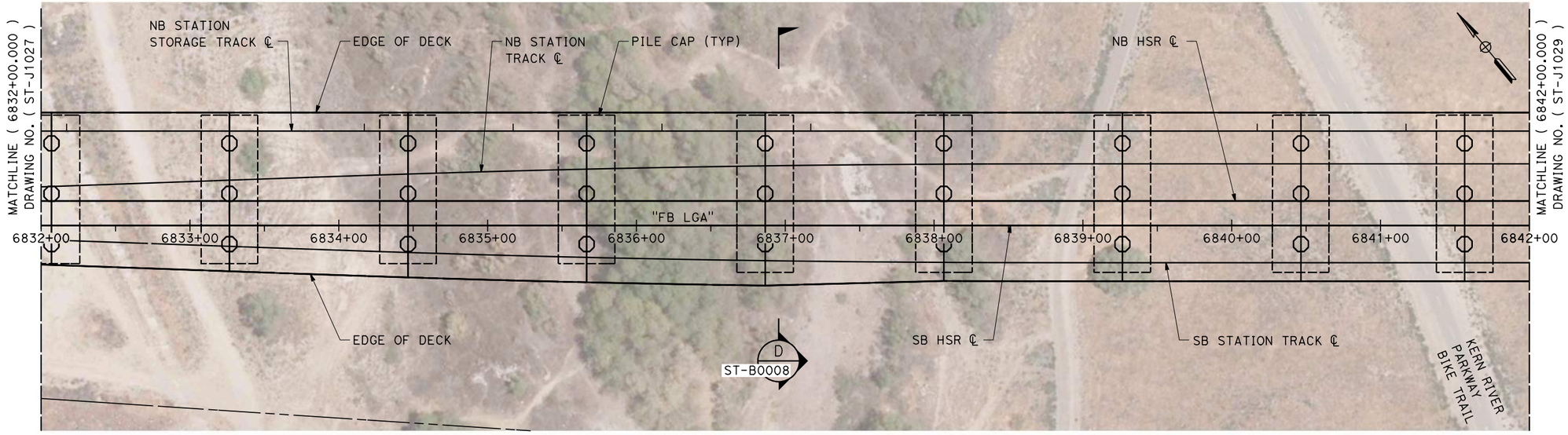
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6822+00 TO 6832+00
PLAN AND ELEVATION

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



ELEVATION

SCALE: 1" = 40'



40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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

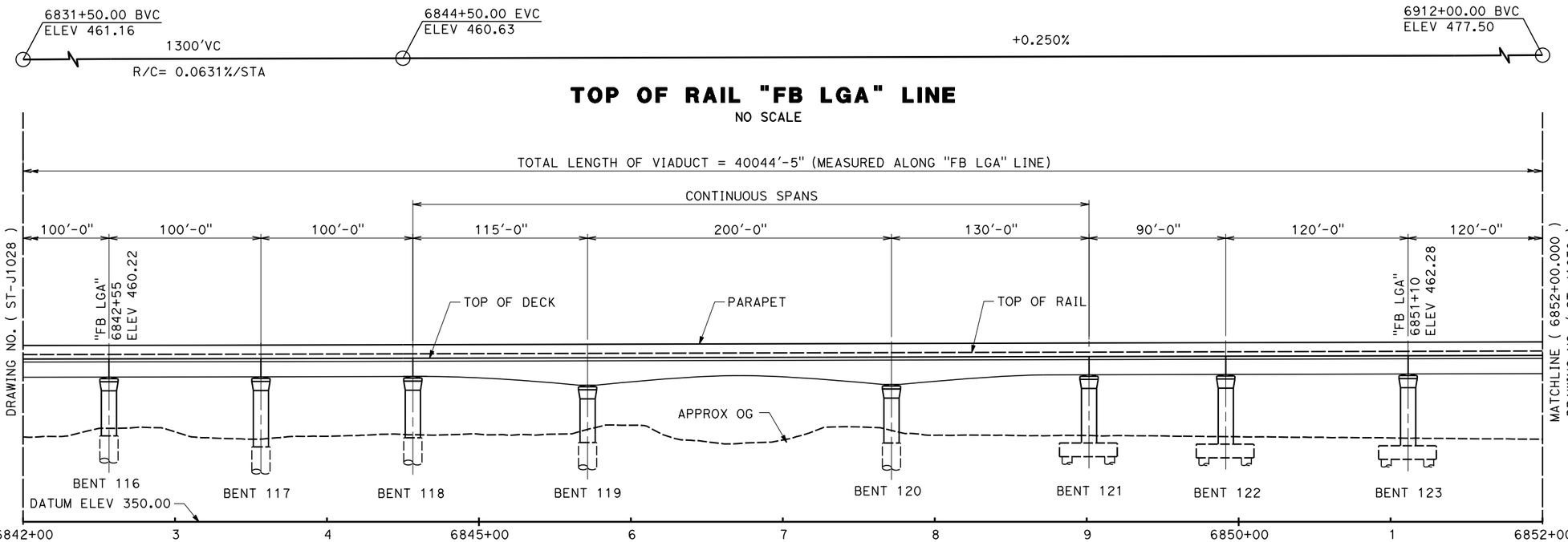
T·Y·LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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.



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

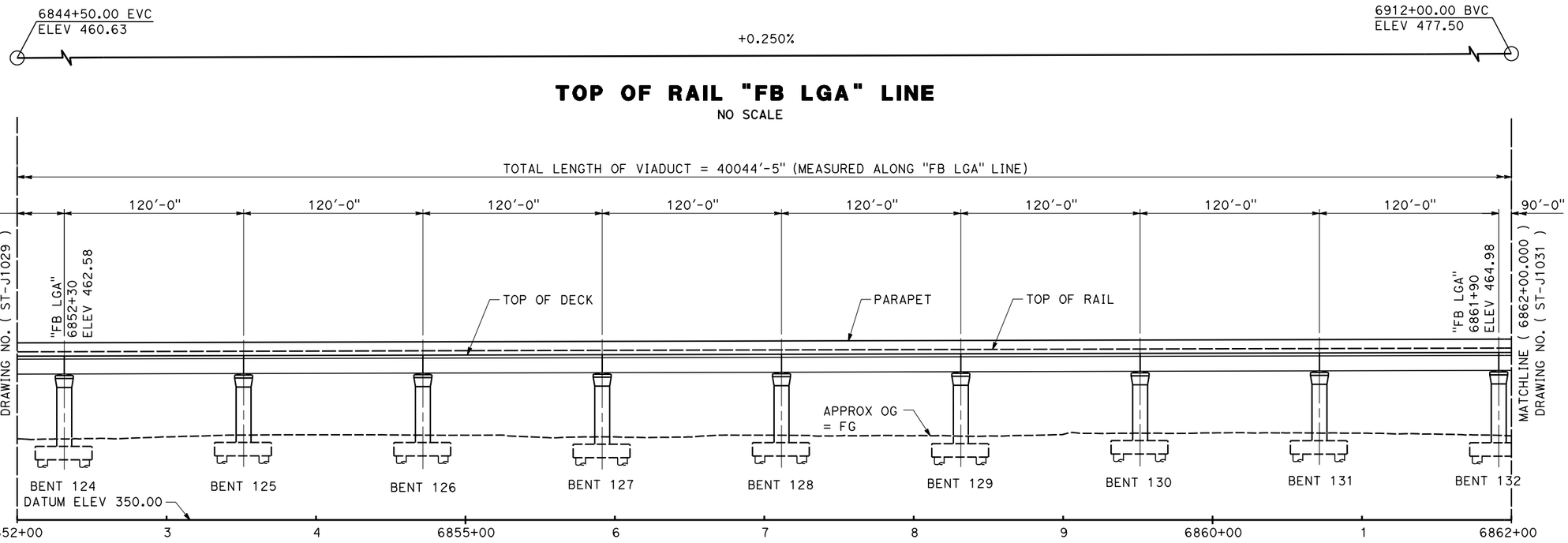
RECORD SET
PEPD DESIGN SUBMISSION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

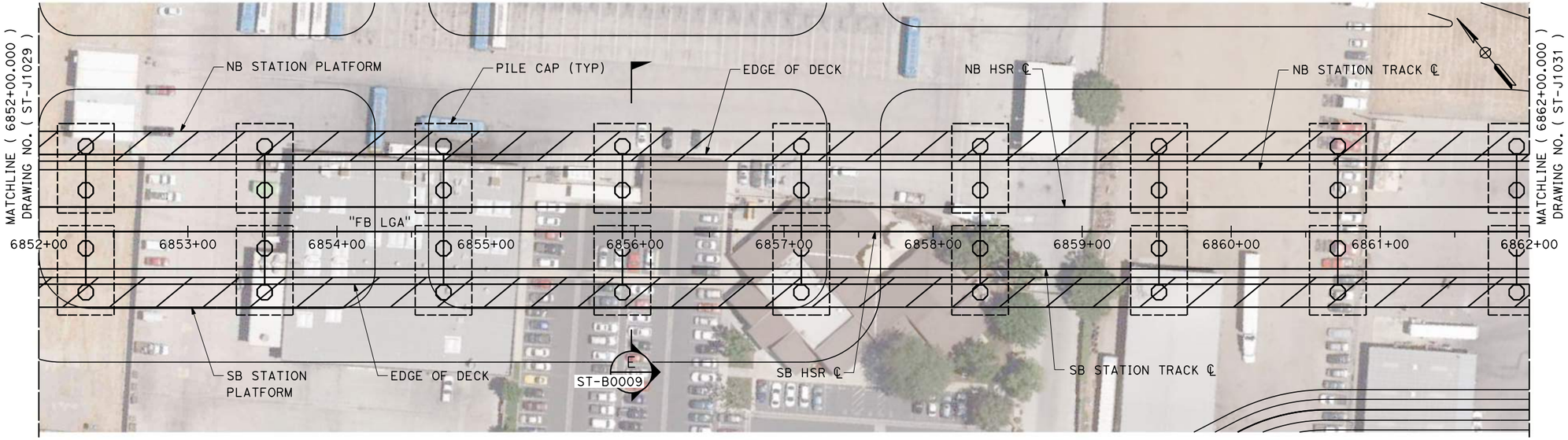
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 6842+00 TO 6852+00
PLAN AND ELEVATION

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



ELEVATION
SCALE: 1" = 40'

NOTE: STATION PLATFORM NOT SHOWN



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN
SCALE: 1" = 40'

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

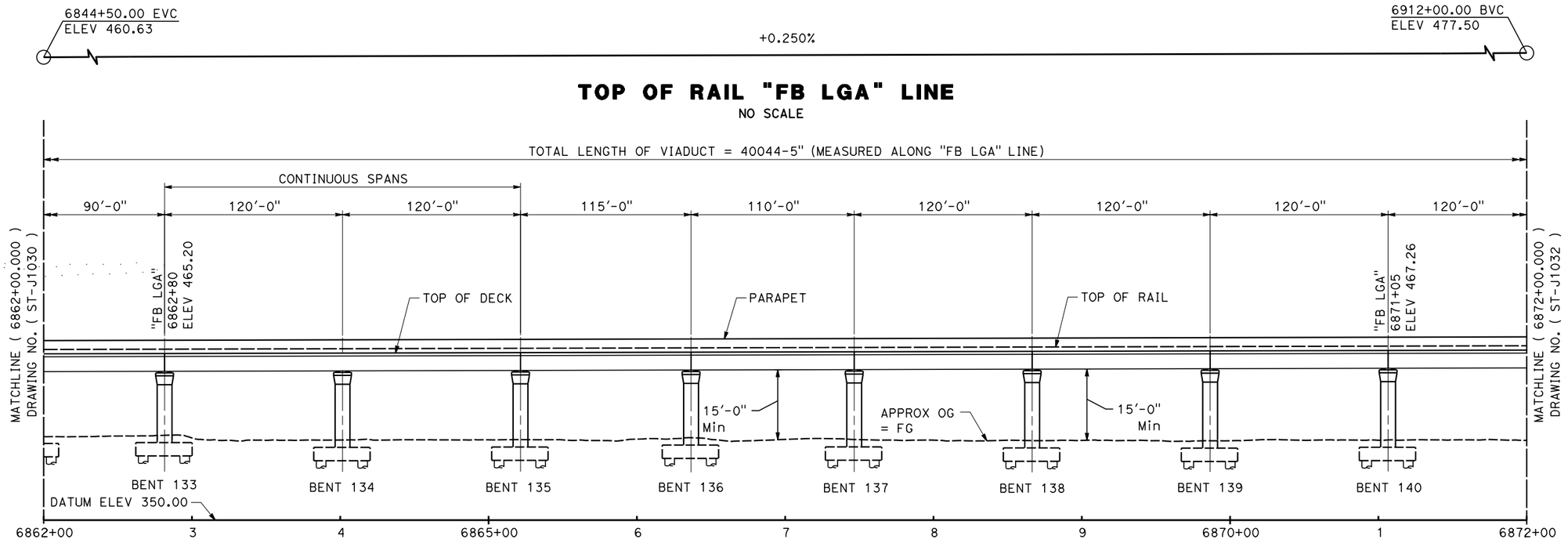
RECORD SET
PEPD DESIGN SUBMISSION

TY·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



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

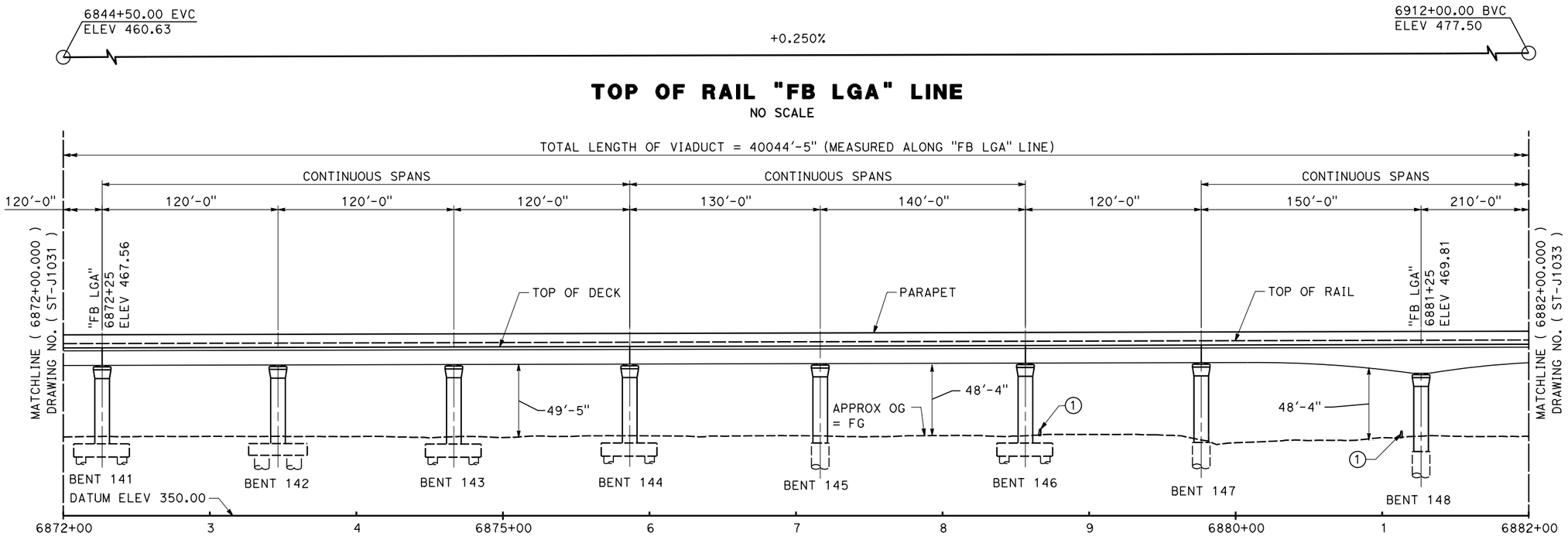
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

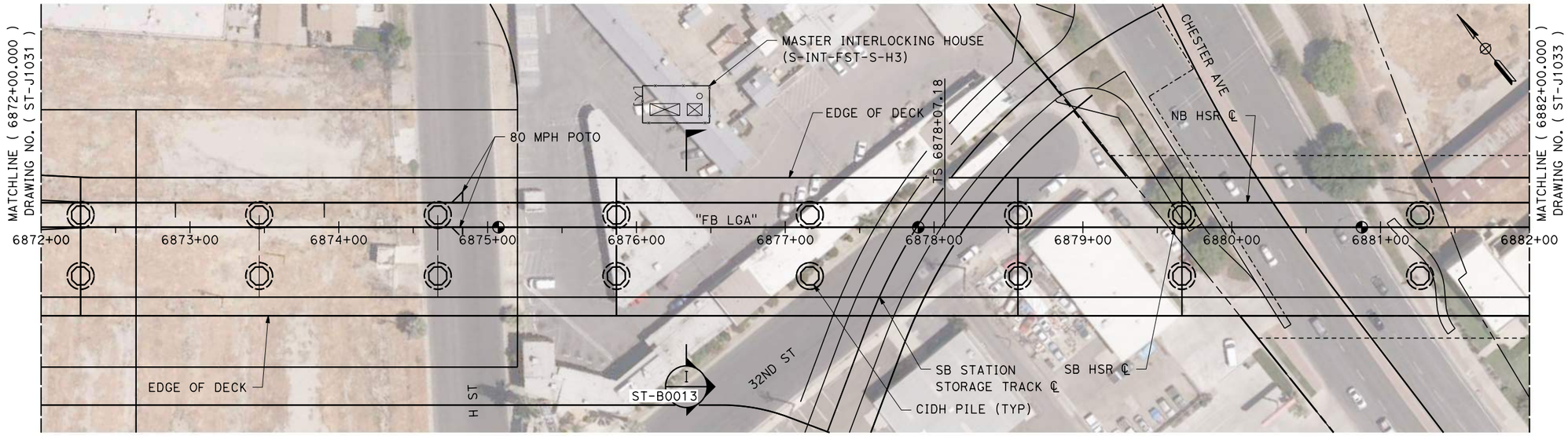


TOP OF RAIL "FB LGA" LINE

NO SCALE

ELEVATION

SCALE: 1" = 40'



40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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

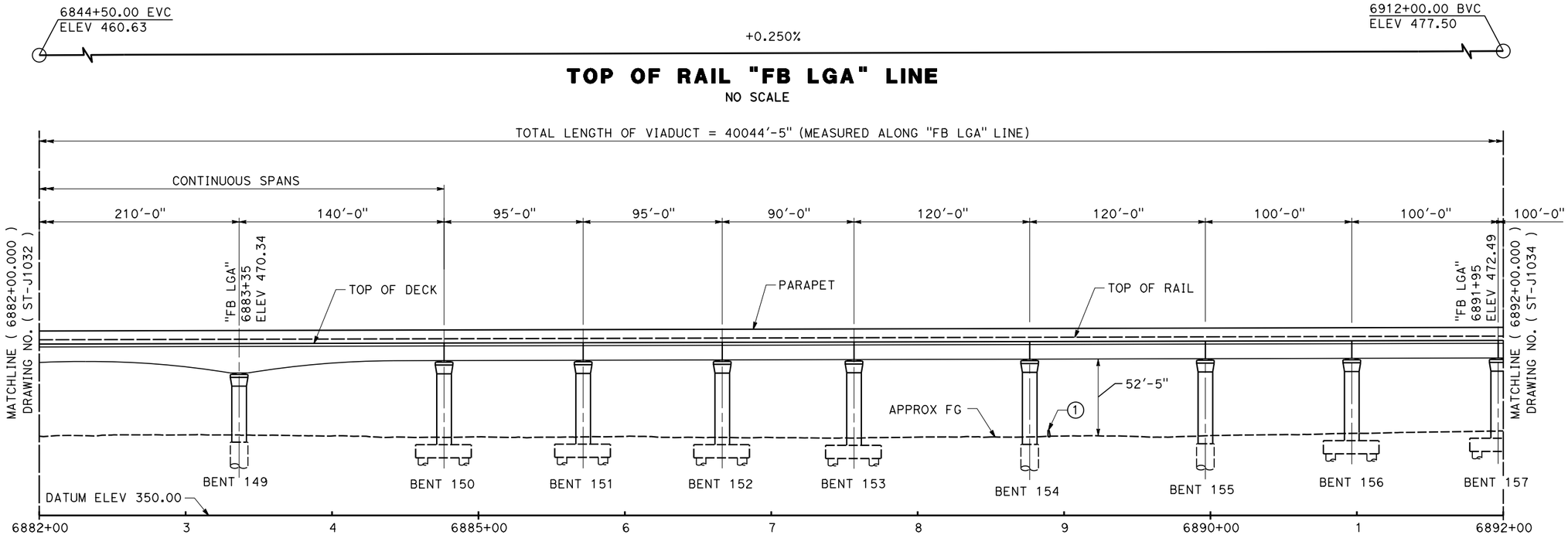
RECORD SET
PEPD DESIGN
SUBMISSION

T·Y·LIN INTERNATIONAL

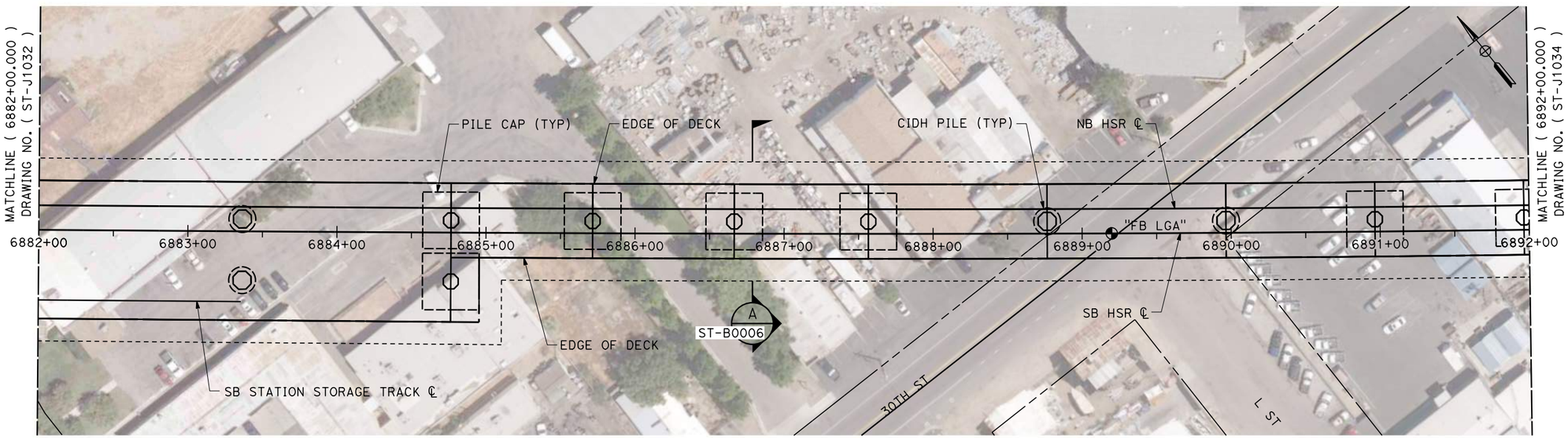
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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.



ELEVATION
SCALE: 1" = 40'



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN
SCALE: 1" = 40'

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

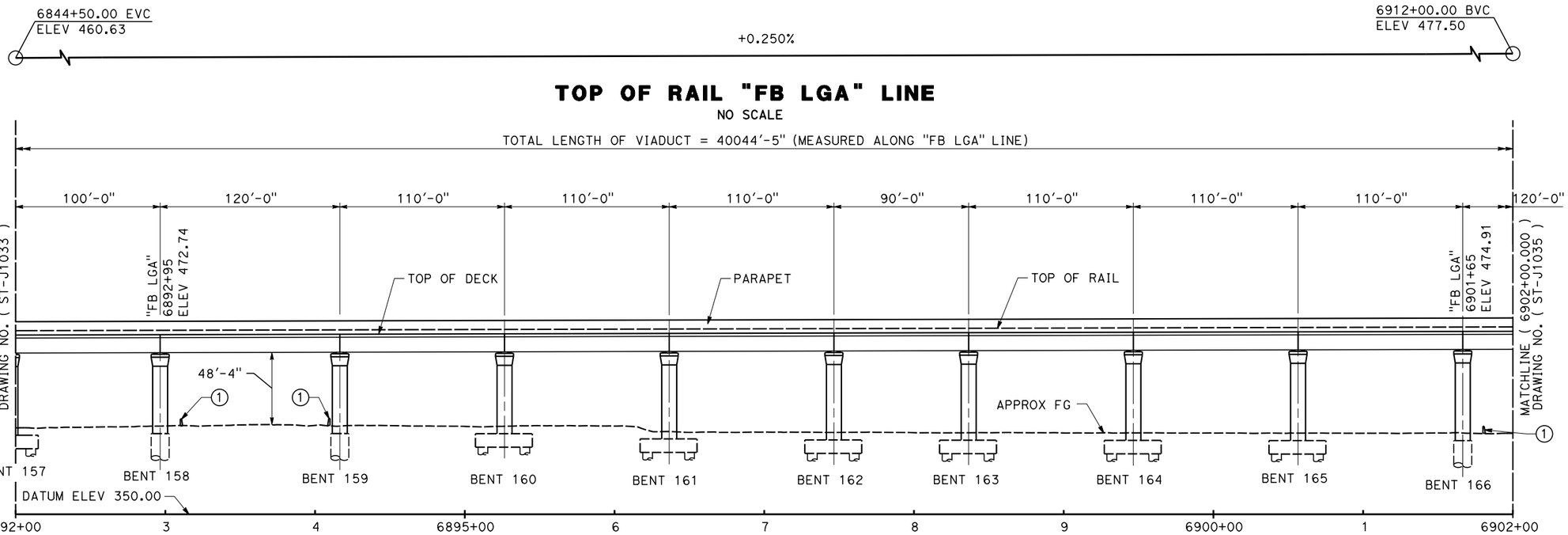
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

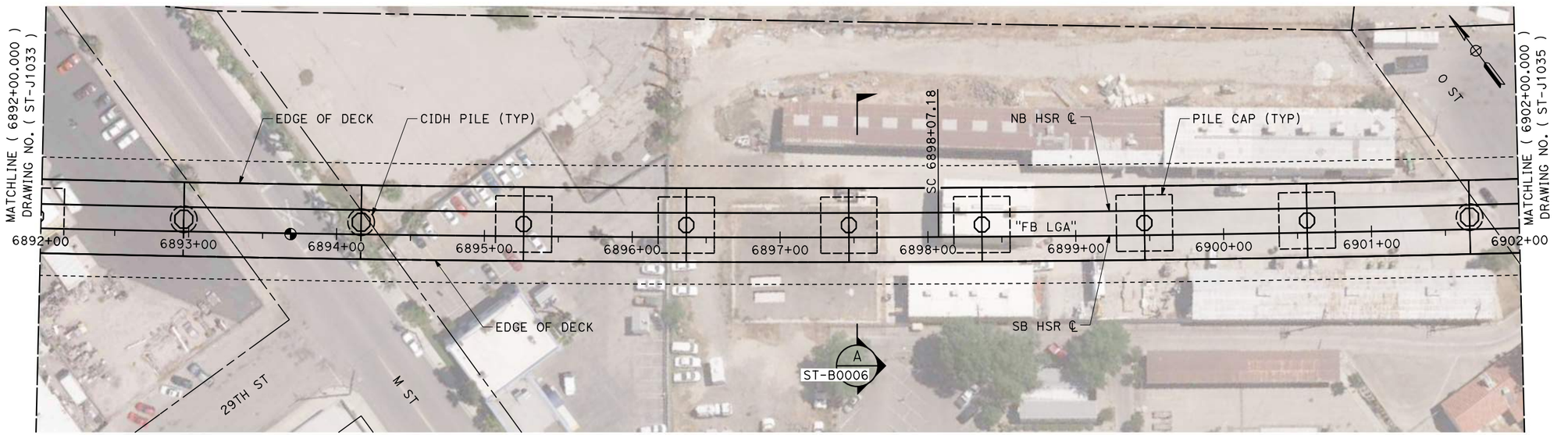
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



ELEVATION
SCALE: 1" = 40'



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN
SCALE: 1" = 40'

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

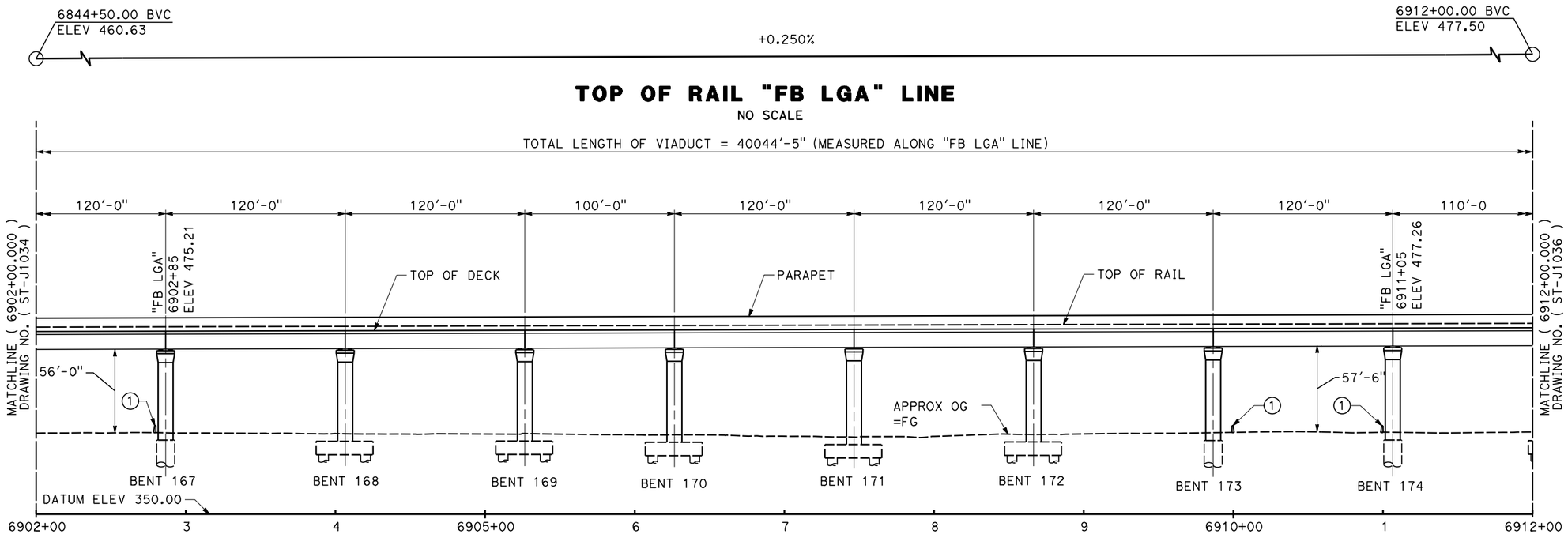
RECORD SET
PEPD DESIGN
SUBMISSION

TYLIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

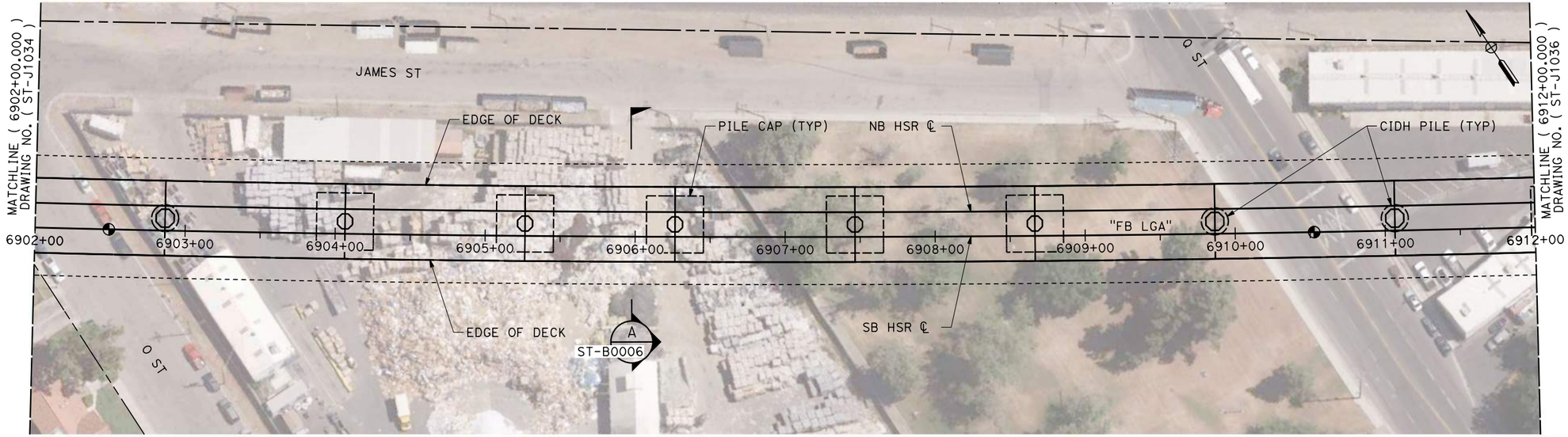


TOP OF RAIL "FB LGA" LINE

NO SCALE

ELEVATION

SCALE: 1" = 40'



40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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

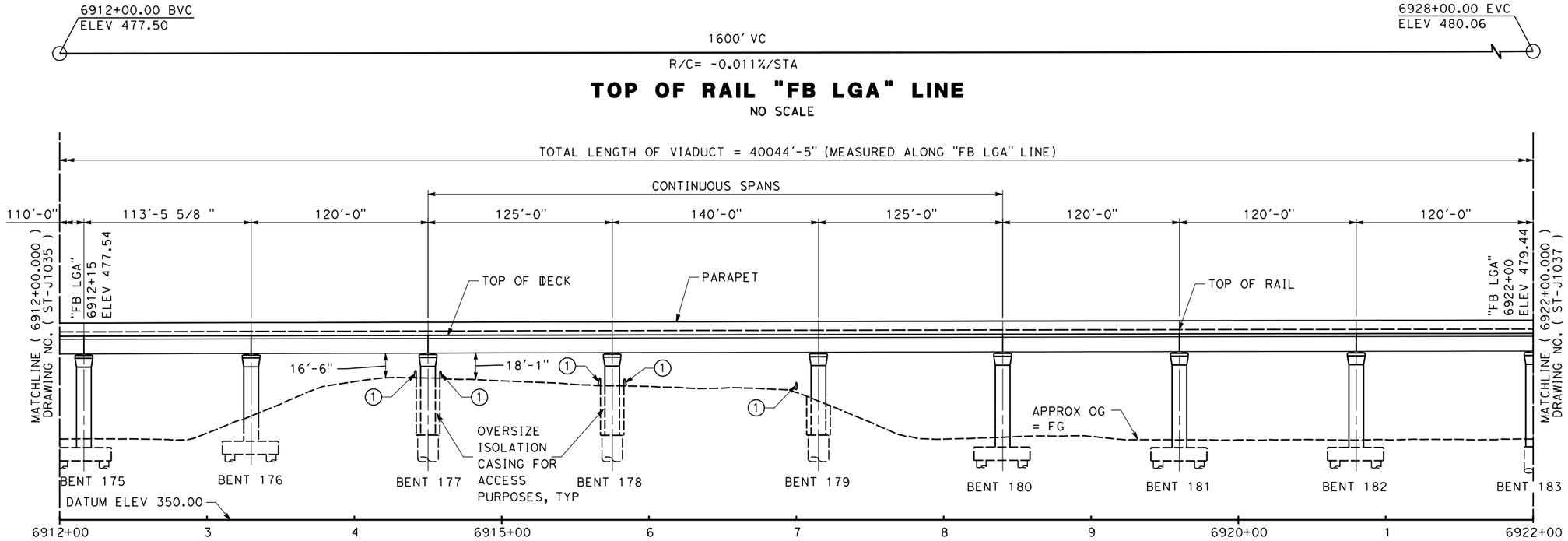
RECORD SET
PEPD DESIGN SUBMISSION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

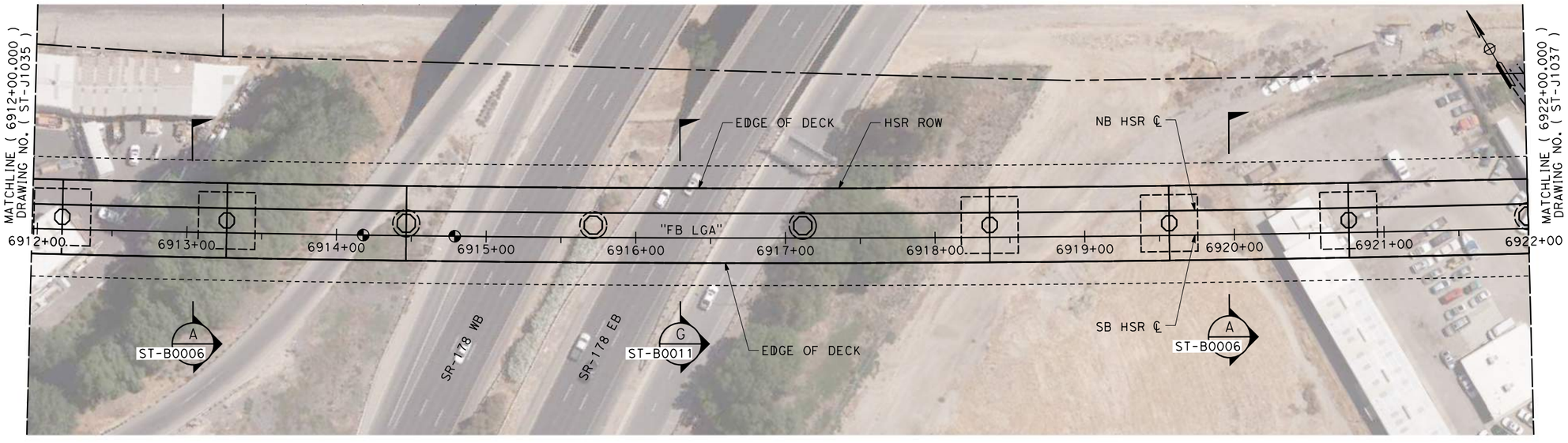


TOP OF RAIL "FB LGA" LINE

NO SCALE

ELEVATION

SCALE: 1" = 40'



40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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

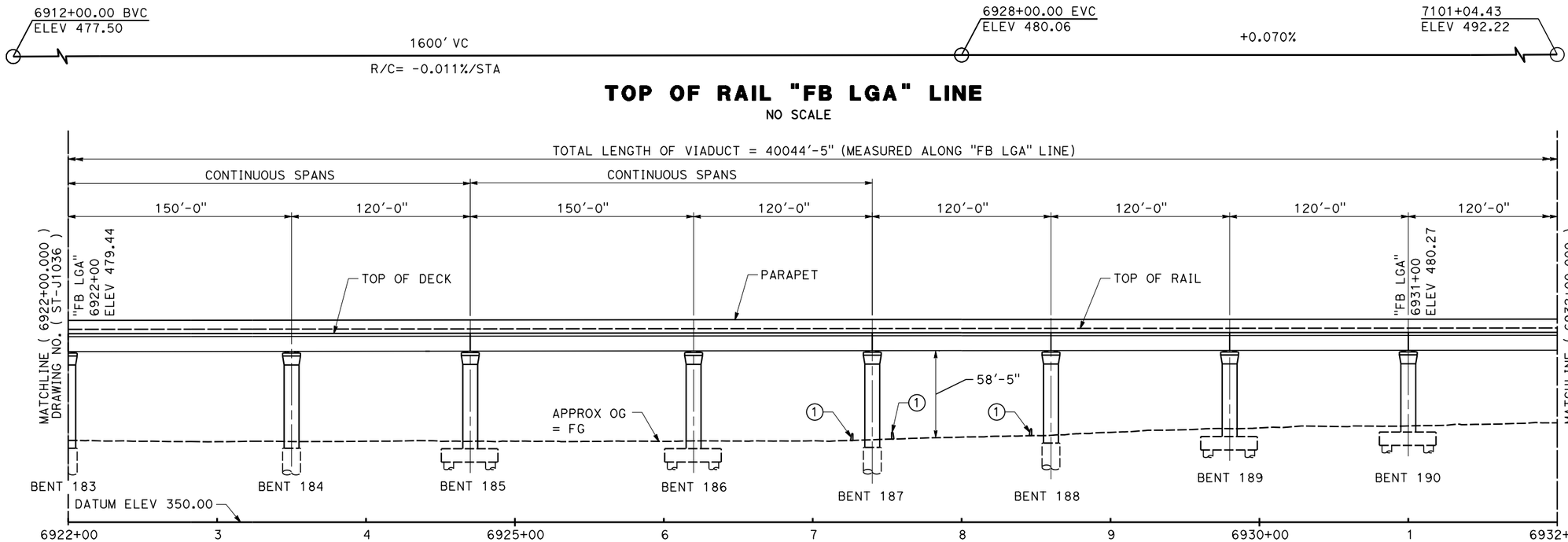
T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

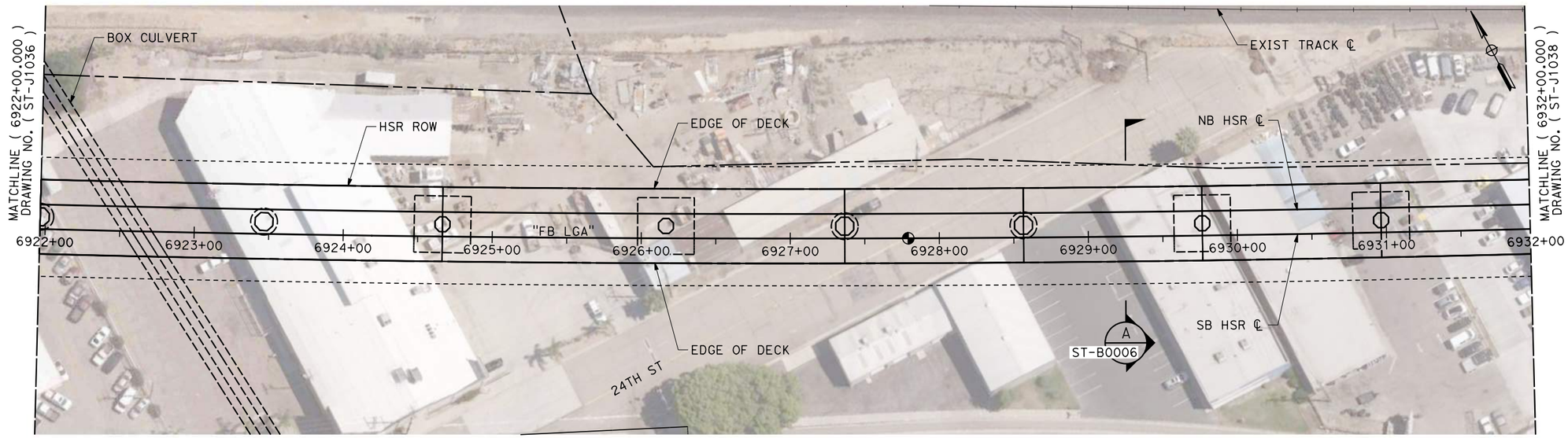


TOP OF RAIL "FB LGA" LINE

NO SCALE

ELEVATION

SCALE: 1" = 40'



40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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 AUTHORITY

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.

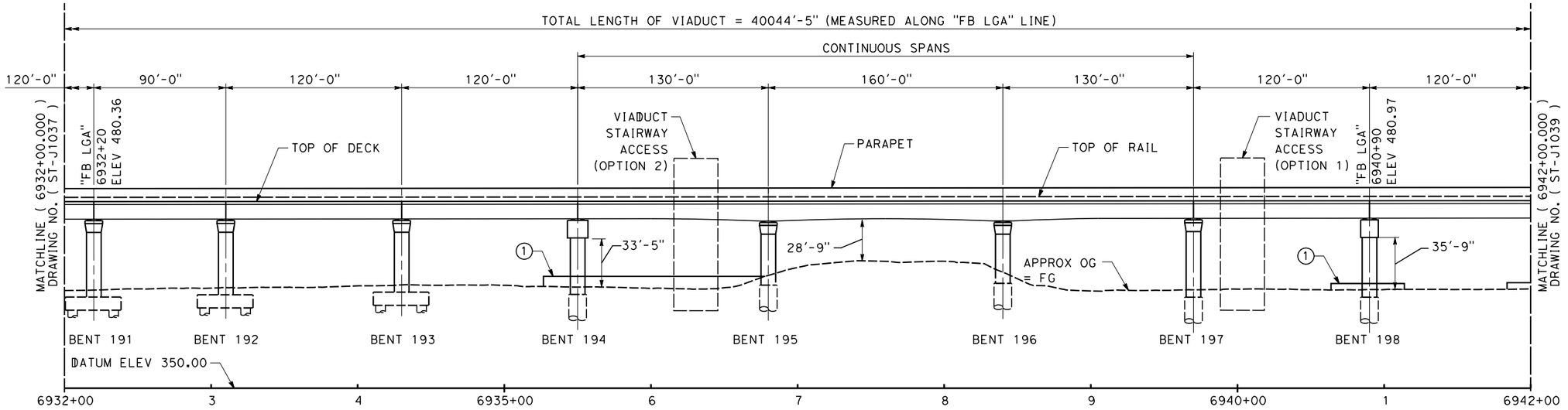
6928+00.00 EVC
ELEV 480.06

+0.070%

7101+04.43
ELEV 492.22

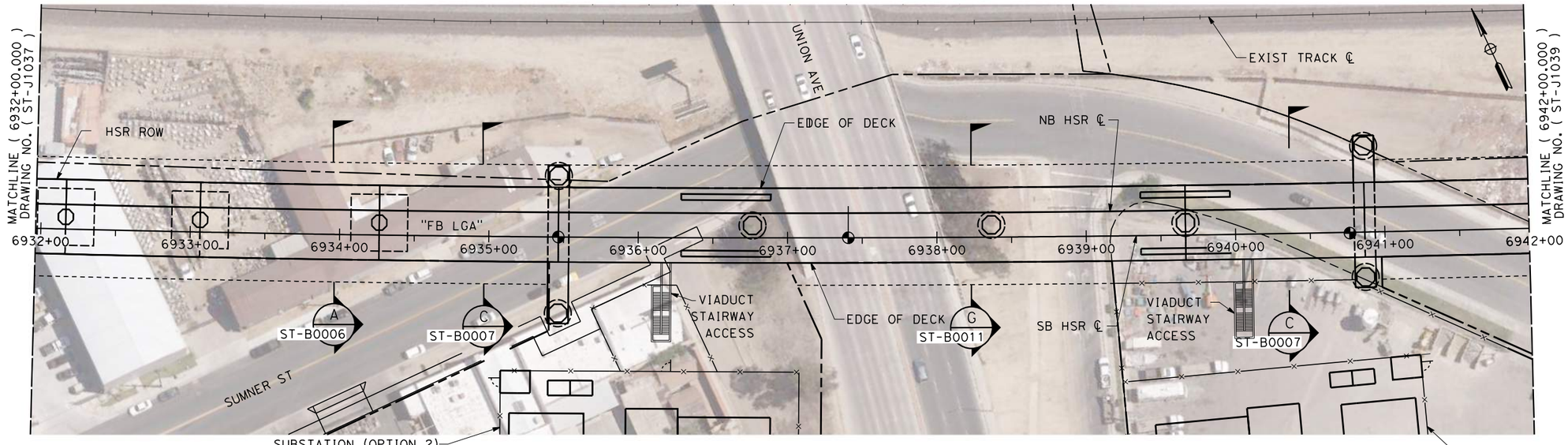
TOP OF RAIL "FB LGA" LINE

NO SCALE



ELEVATION

SCALE: 1" = 40'



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

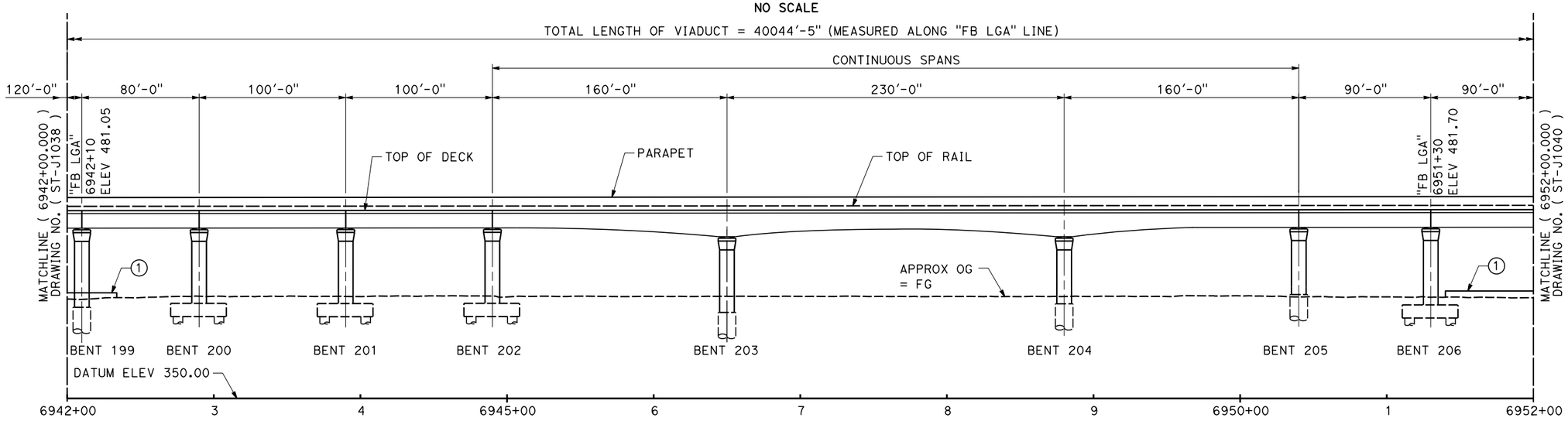
6928+00.00 EVC
ELEV 480.06

+0.070%

7101+04.43
ELEV 492.22

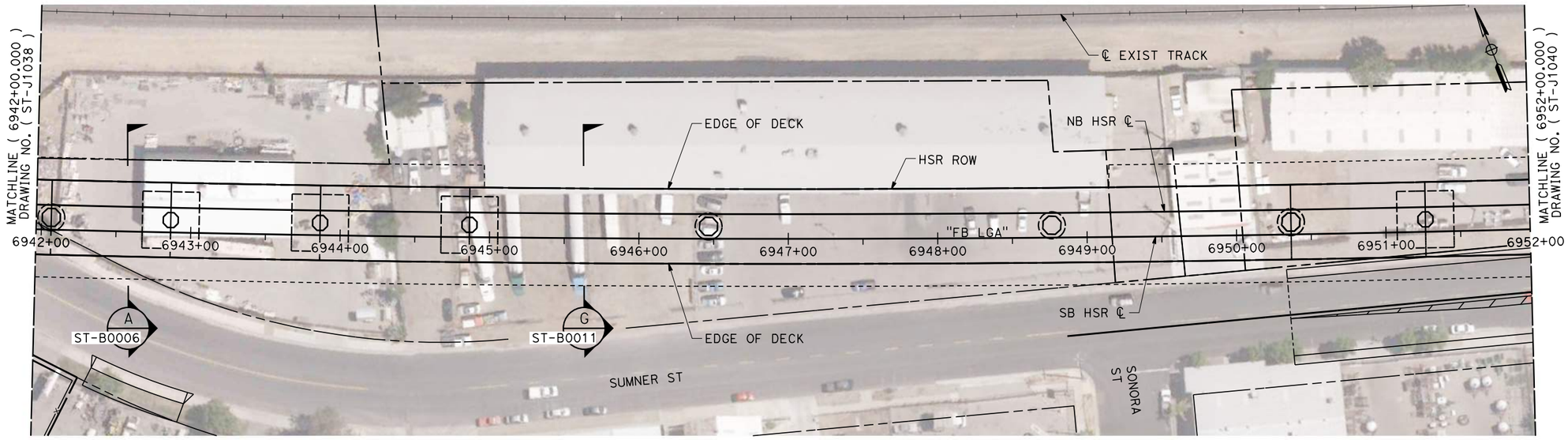
TOP OF RAIL "FB LGA" LINE

NO SCALE



ELEVATION

SCALE: 1" = 40'



40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

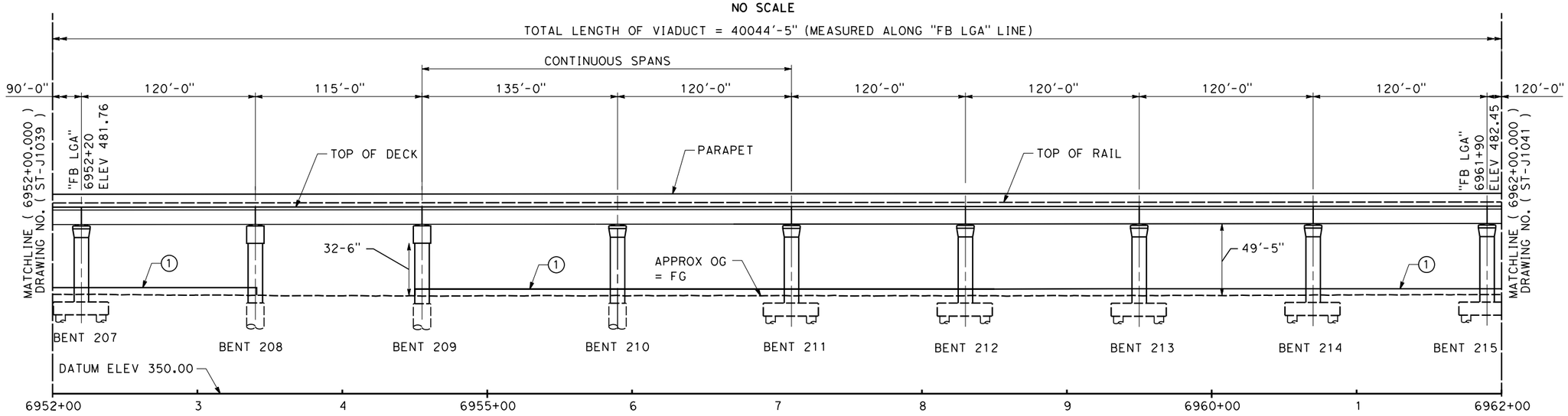
6928+00.00 EVC
ELEV 480.06

+0.070%

7101+04.43
ELEV 492.22

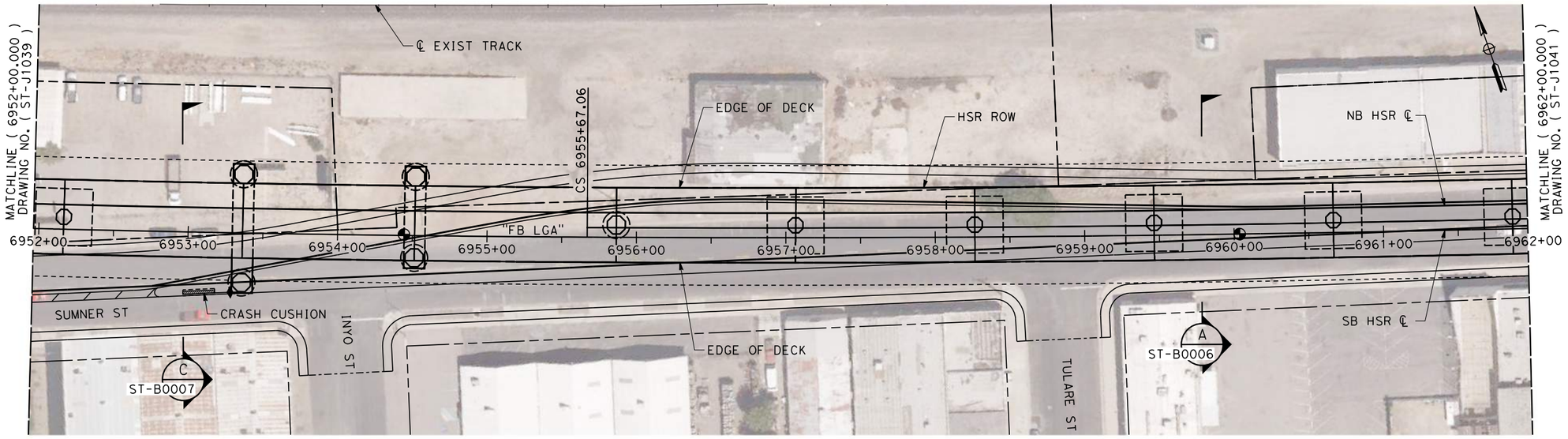
TOP OF RAIL "FB LGA" LINE

NO SCALE



ELEVATION

SCALE: 1" = 40'



40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

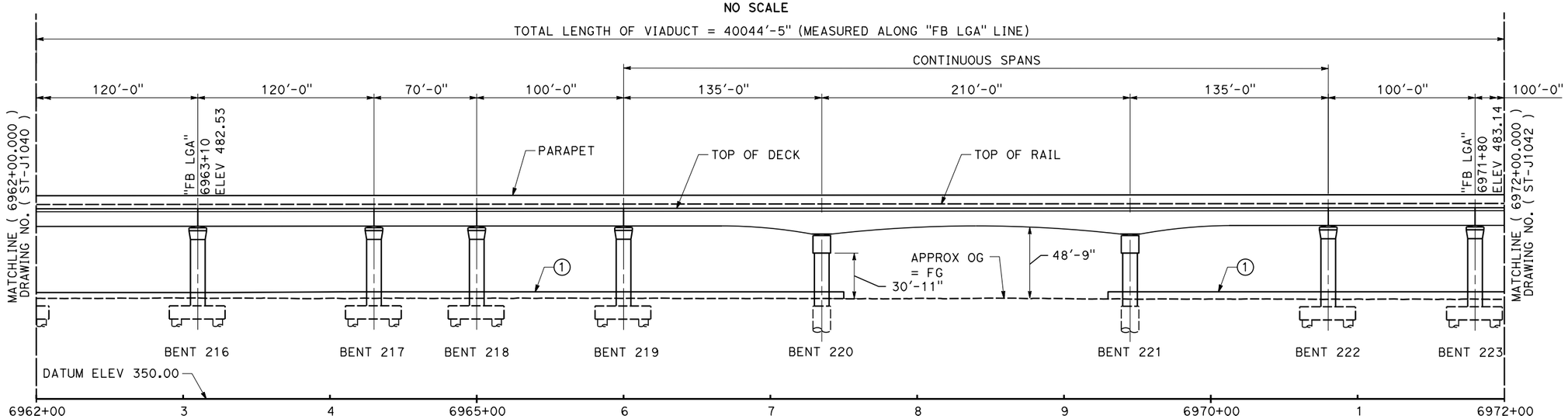
6928+00.00 EVC
ELEV 480.06

+0.070%

7101+04.43
ELEV 492.22

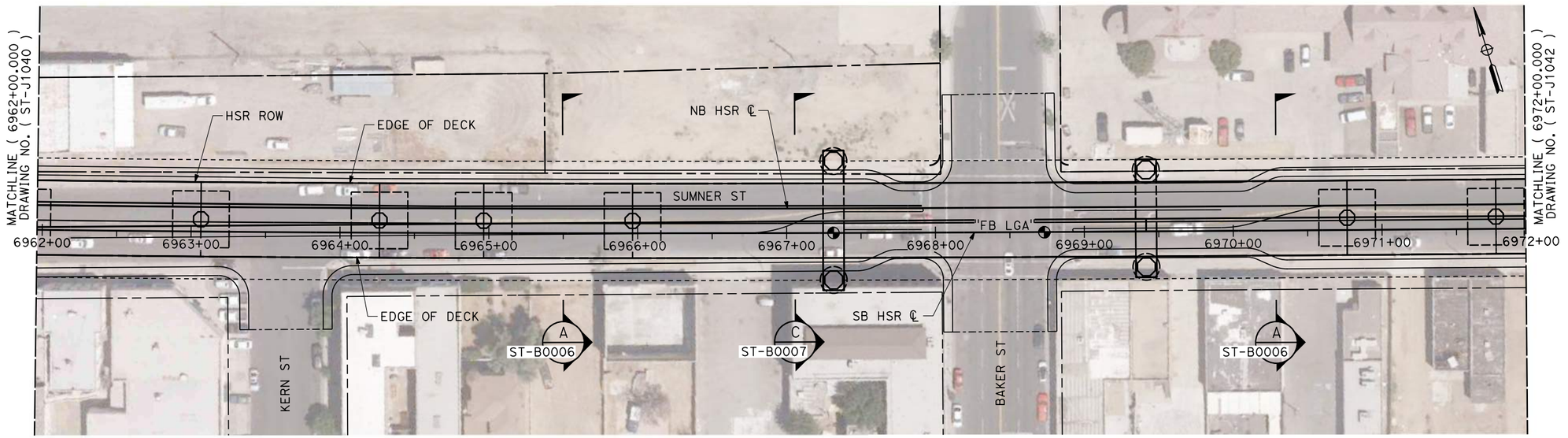
TOP OF RAIL "FB LGA" LINE

NO SCALE



ELEVATION

SCALE: 1" = 40'



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

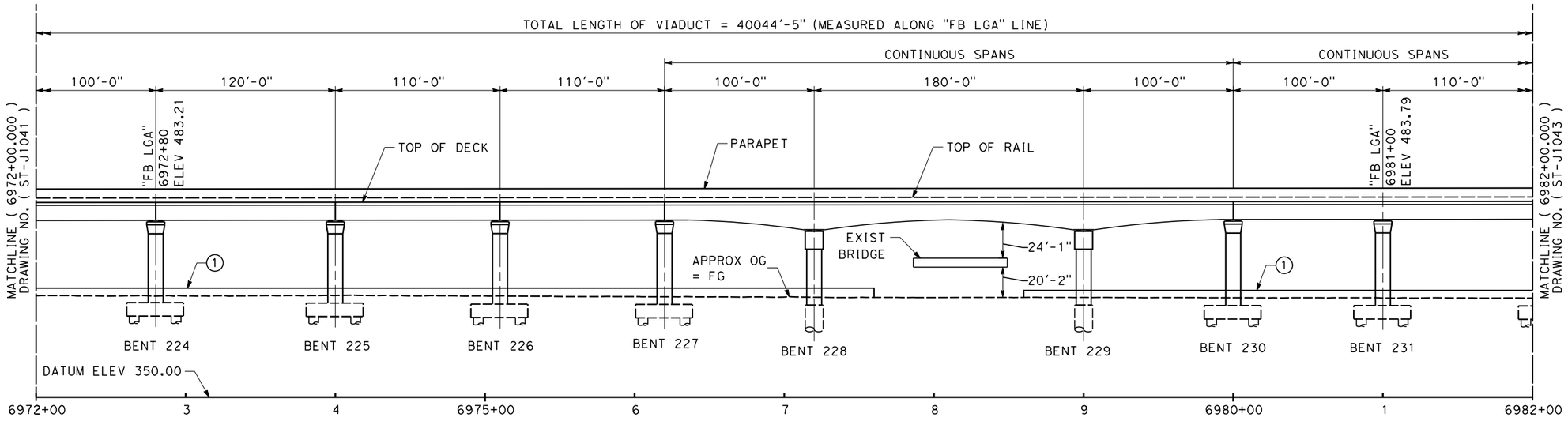
CONTRACT NO. HSR13-44
DRAWING NO. ST-J1041
SCALE AS SHOWN
SHEET NO.

6928+00.00 EVC
ELEV 480.06

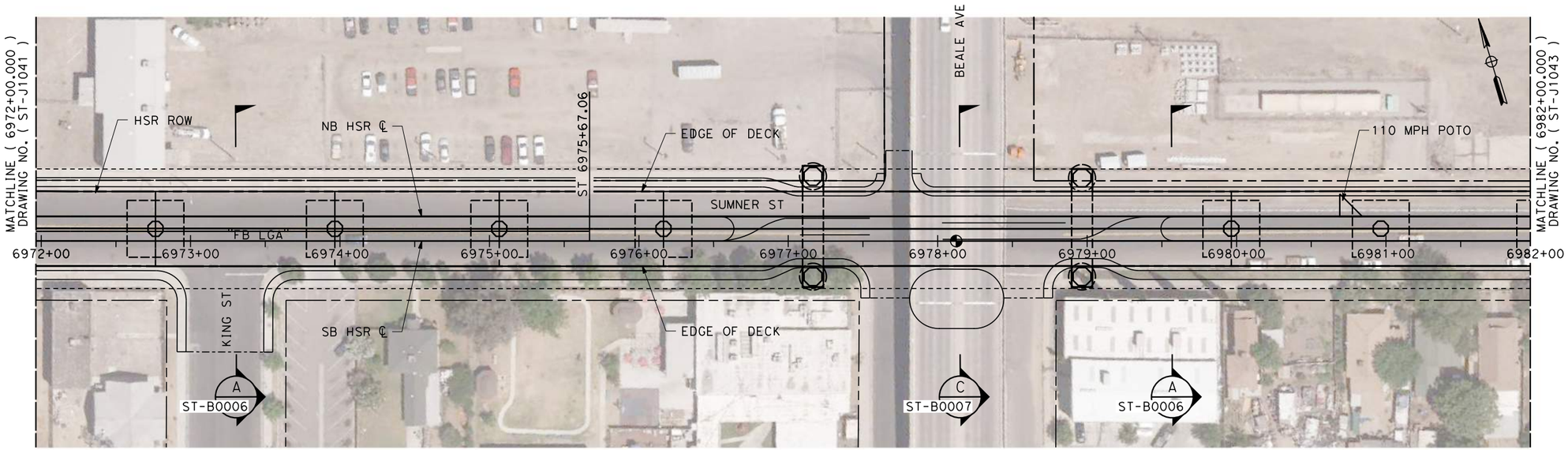
+0.070%

7101+04.43
ELEV 492.22

TOP OF RAIL "FB LGA" LINE
NO SCALE



ELEVATION
SCALE: 1" = 40'



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN
SCALE: 1" = 40'

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

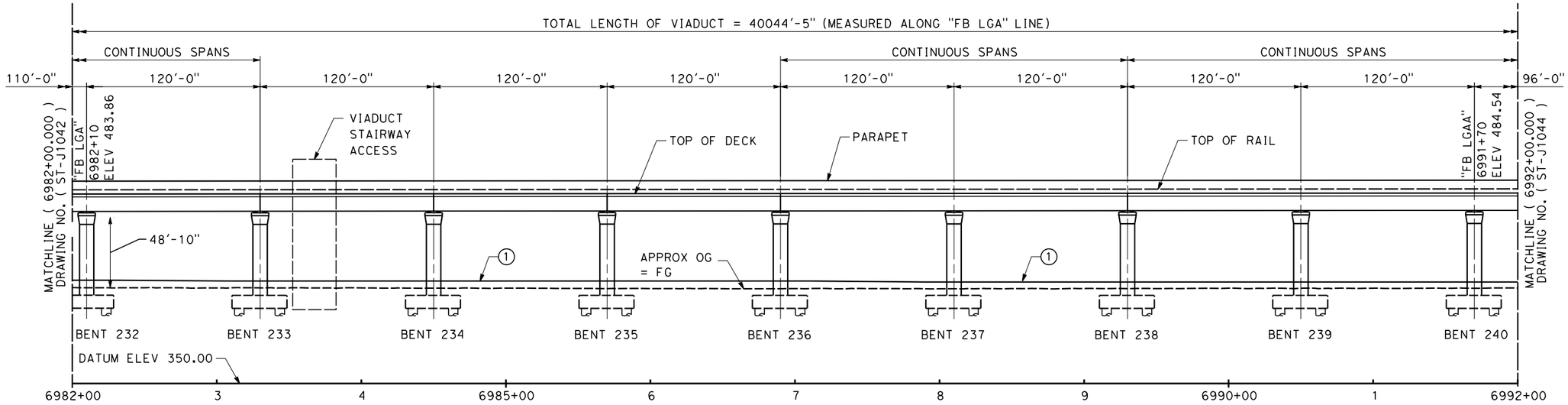
CONTRACT NO. HSR13-44
DRAWING NO. ST-J1042
SCALE AS SHOWN
SHEET NO.

6928+00.00 EVC
ELEV 480.06

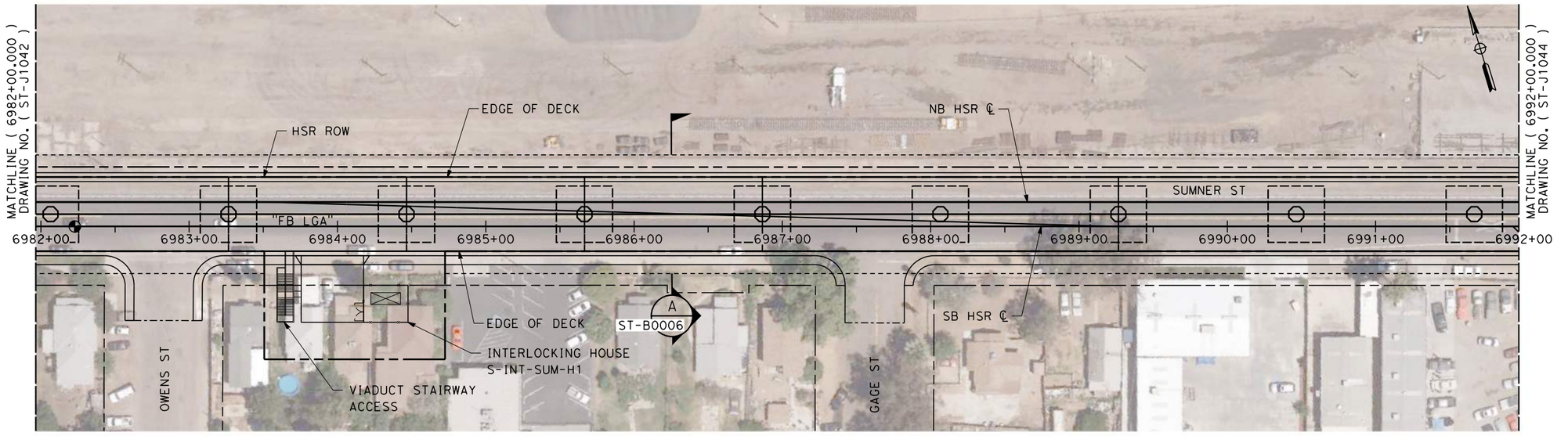
+0.070%

7101+04.43
ELEV 492.22

TOP OF RAIL "FB LGA" LINE
NO SCALE



ELEVATION
SCALE: 1" = 40'



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN
SCALE: 1" = 40'

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

T·Y LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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.

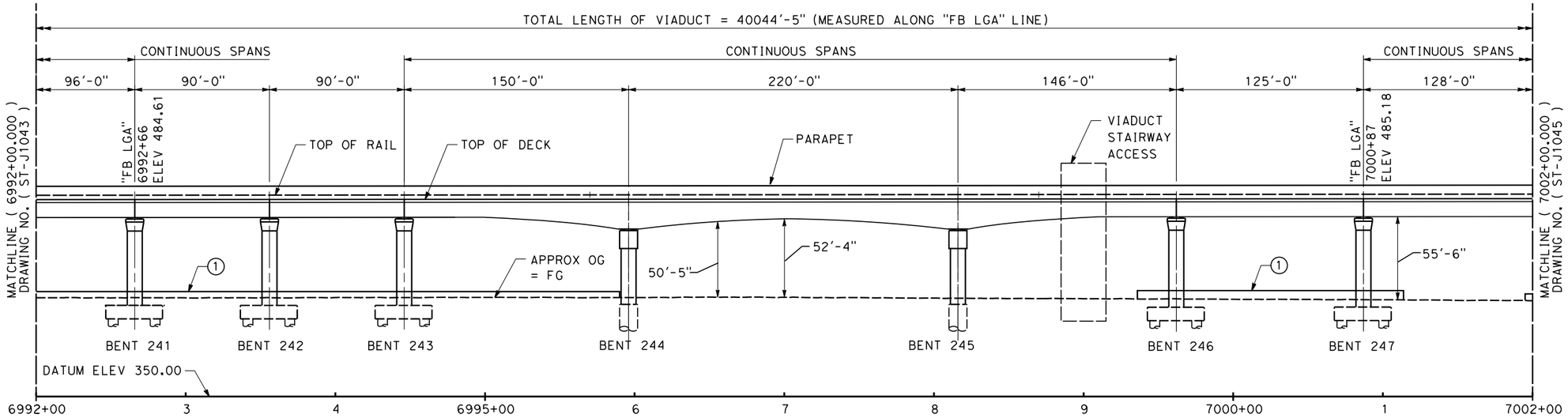
6928+00.00 EVC
ELEV 480.06

+0.070%

7101+04.43
ELEV 492.22

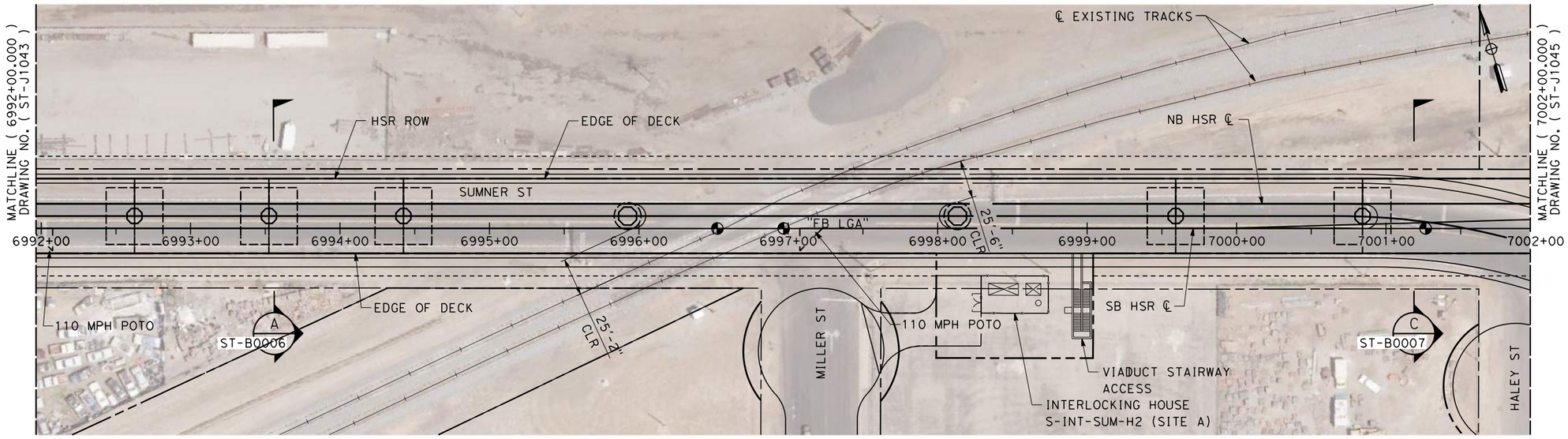
TOP OF RAIL "FB LGA" LINE

NO SCALE



ELEVATION

SCALE: 1" = 40'



40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

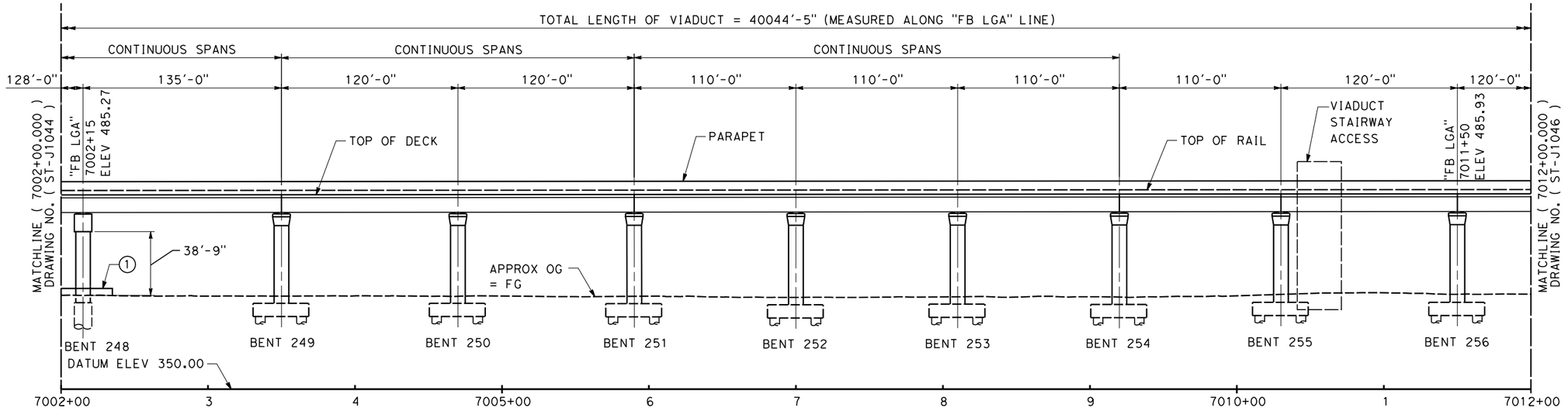
CONTRACT NO. HSR13-44
DRAWING NO. ST-J1044
SCALE AS SHOWN
SHEET NO.

6928+00.00 EVC
ELEV 480.06

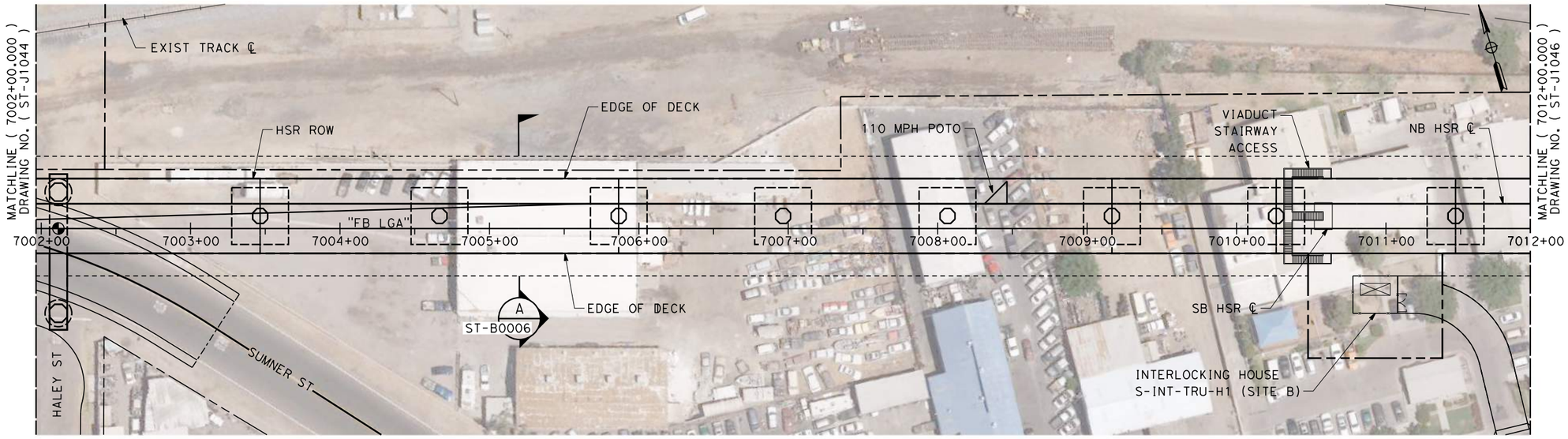
+0.070%

7101+04.43
ELEV 492.22

TOP OF RAIL "FB LGA" LINE
NO SCALE



ELEVATION
SCALE: 1" = 40'



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN
SCALE: 1" = 40'

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

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

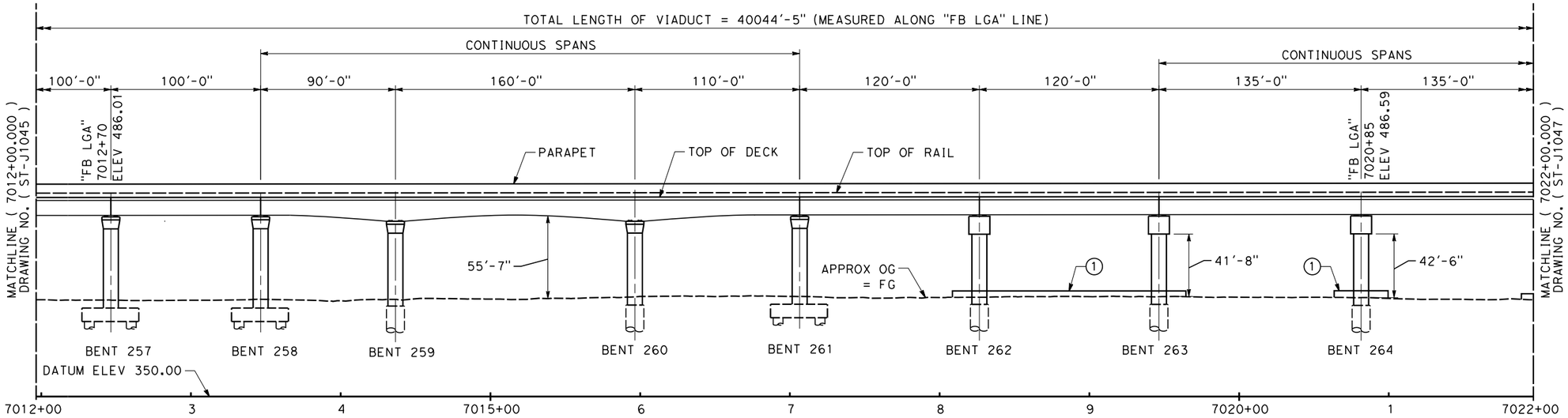
CONTRACT NO. HSR13-44
DRAWING NO. ST-J1045
SCALE AS SHOWN
SHEET NO.

6928+00.00 EVC
ELEV 480.06

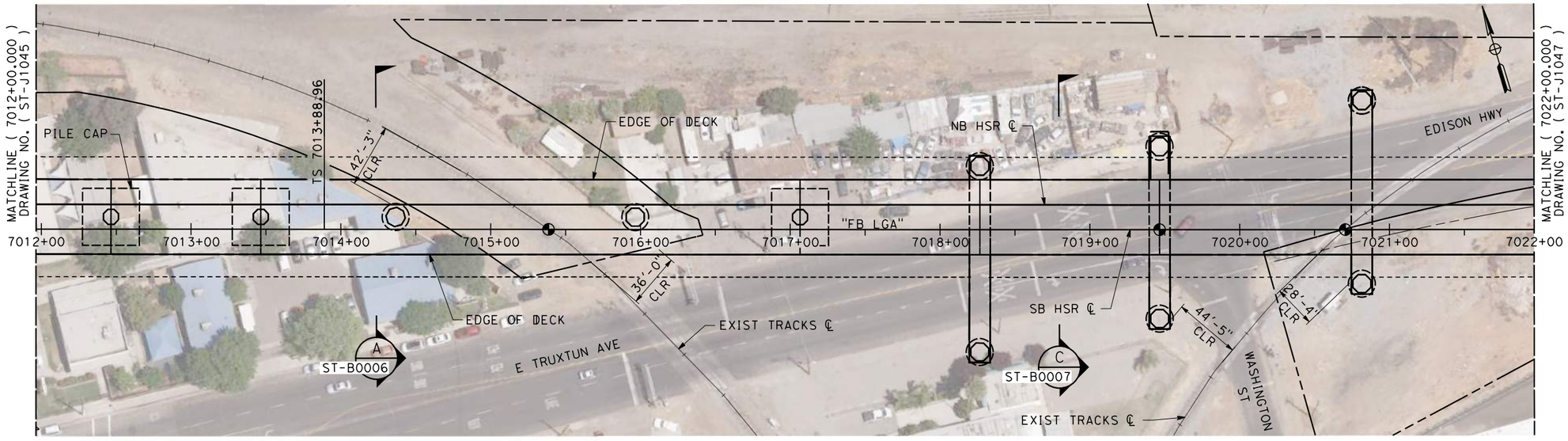
+0.070%

7101+04.43
ELEV 492.22

TOP OF RAIL "FB LGA" LINE
NO SCALE



ELEVATION
SCALE: 1" = 40'



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN
SCALE: 1" = 40'

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

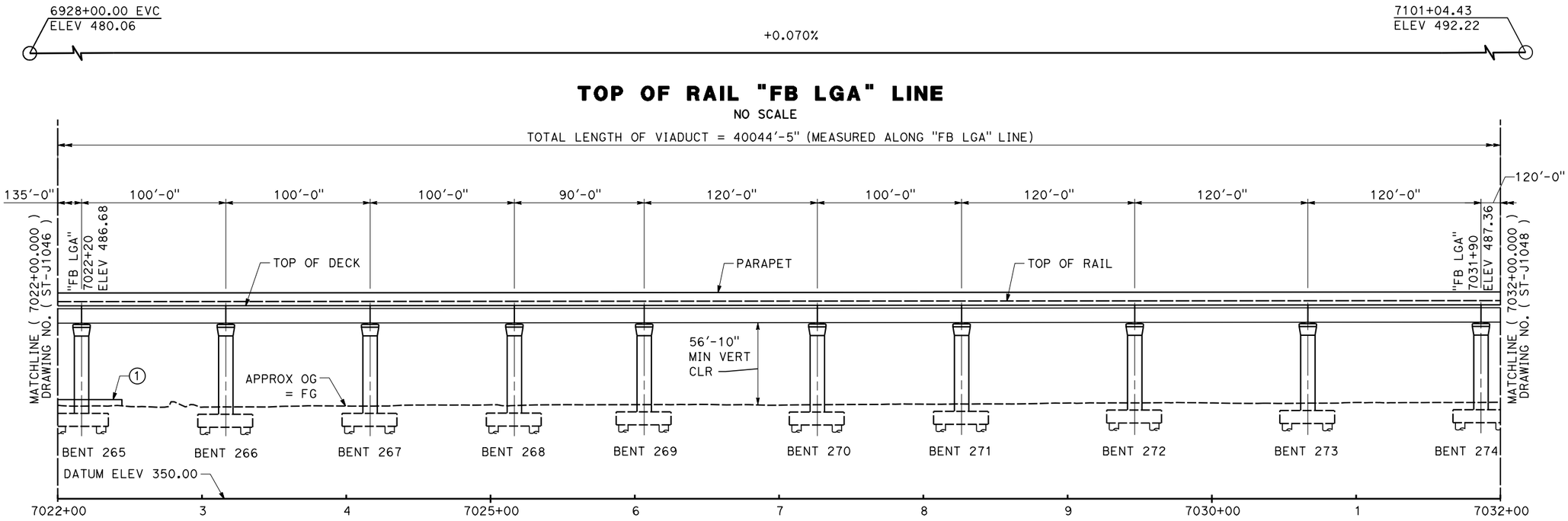
RECORD SET
PEPD DESIGN SUBMISSION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

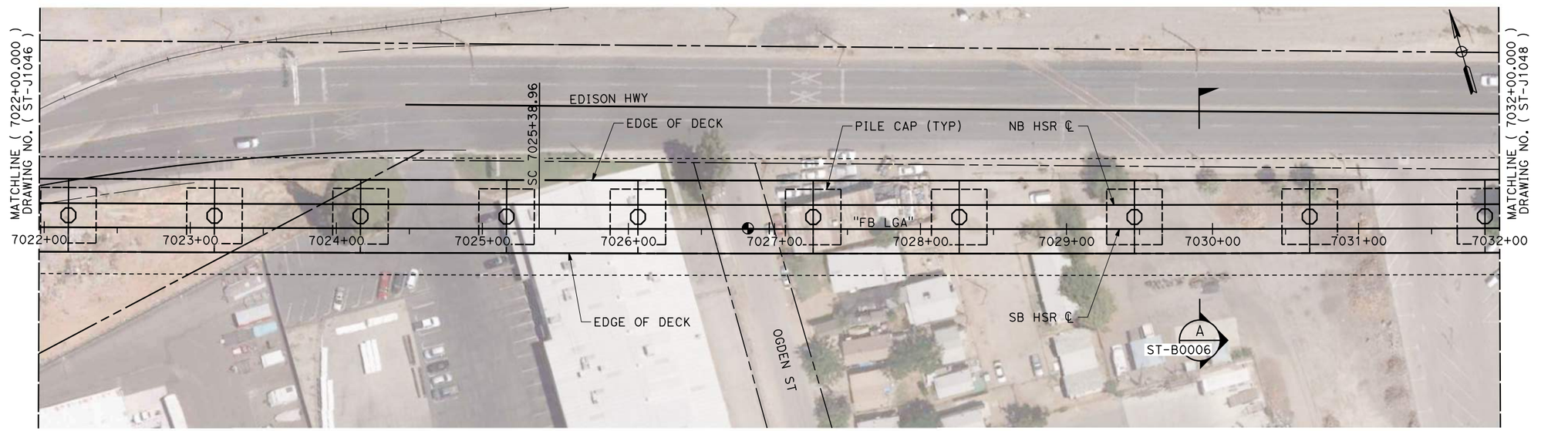
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
BAKERSFIELD HST VIADUCT
STATION 7012+00 TO 7022+00
PLAN AND ELEVATION

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



ELEVATION

SCALE: 1" = 40'



40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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

TYLINKBerry 10/14/2016 3:40:18 PM $PENTBLS$ $PLTDRVS$ Projects\701206.N_BFSS\00 CADD\Sheet Files\Track Structure Sheets\BFSSA-ST-J1047

TYLIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

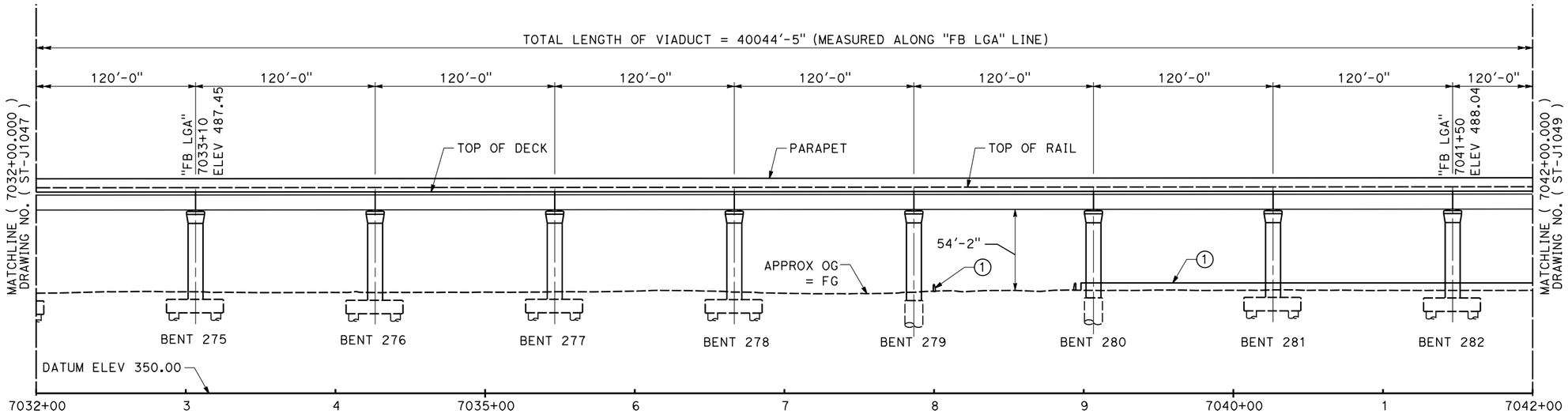
CONTRACT NO. HSR13-44
DRAWING NO. ST-J1047
SCALE AS SHOWN
SHEET NO.

6928+00.00 EVC
ELEV 480.06

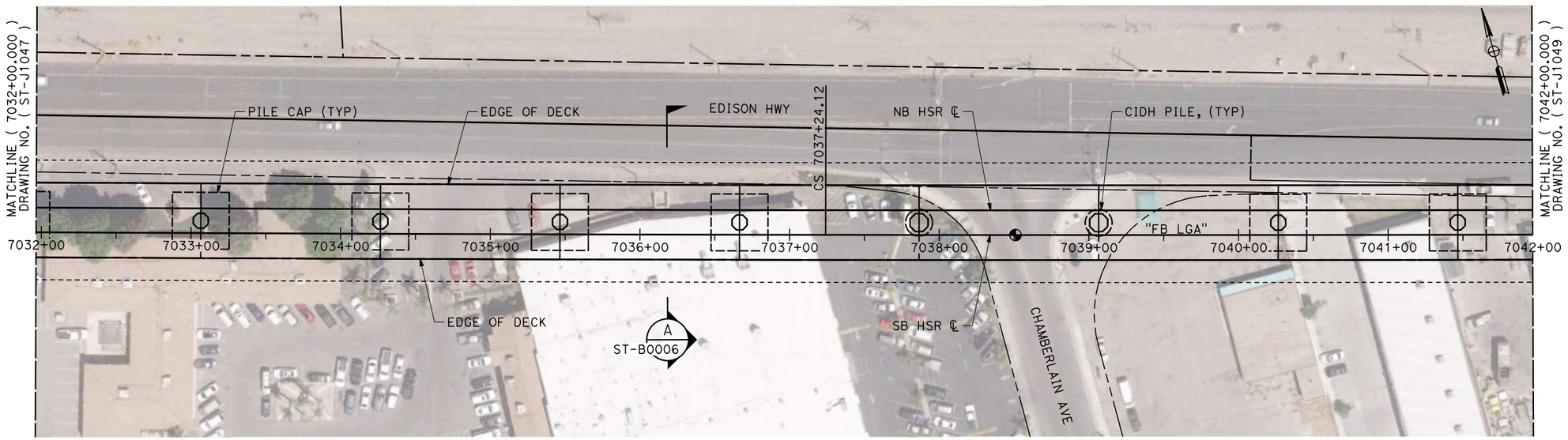
+0.070%

7101+04.43
ELEV 492.22

TOP OF RAIL "FB LGA" LINE
NO SCALE



ELEVATION
SCALE: 1" = 40'



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN
SCALE: 1" = 40'

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

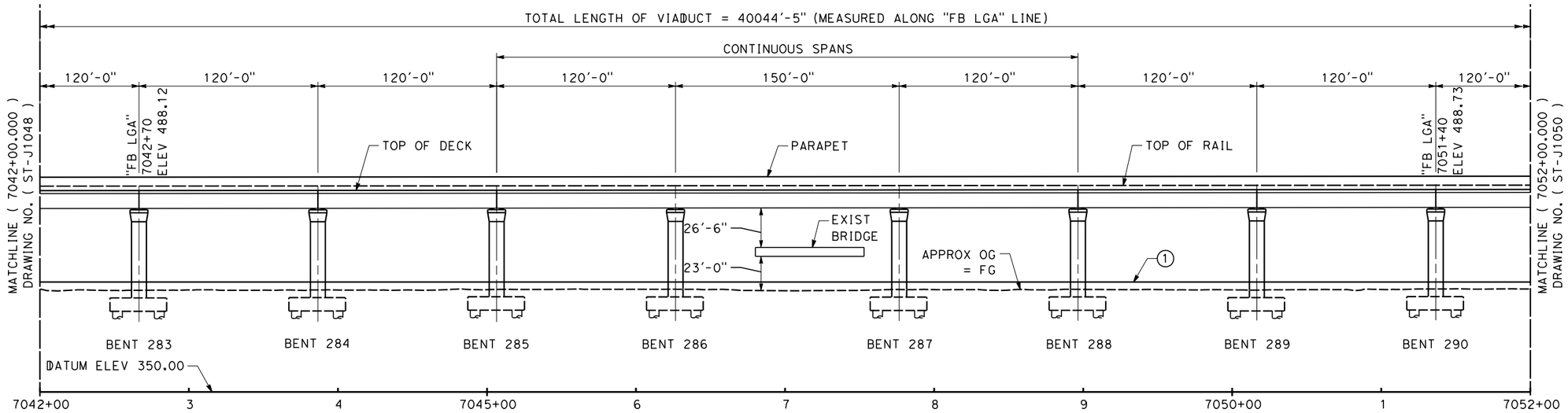
6928+00.00 EVC
ELEV 480.06

+0.070%

7101+04.43
ELEV 492.22

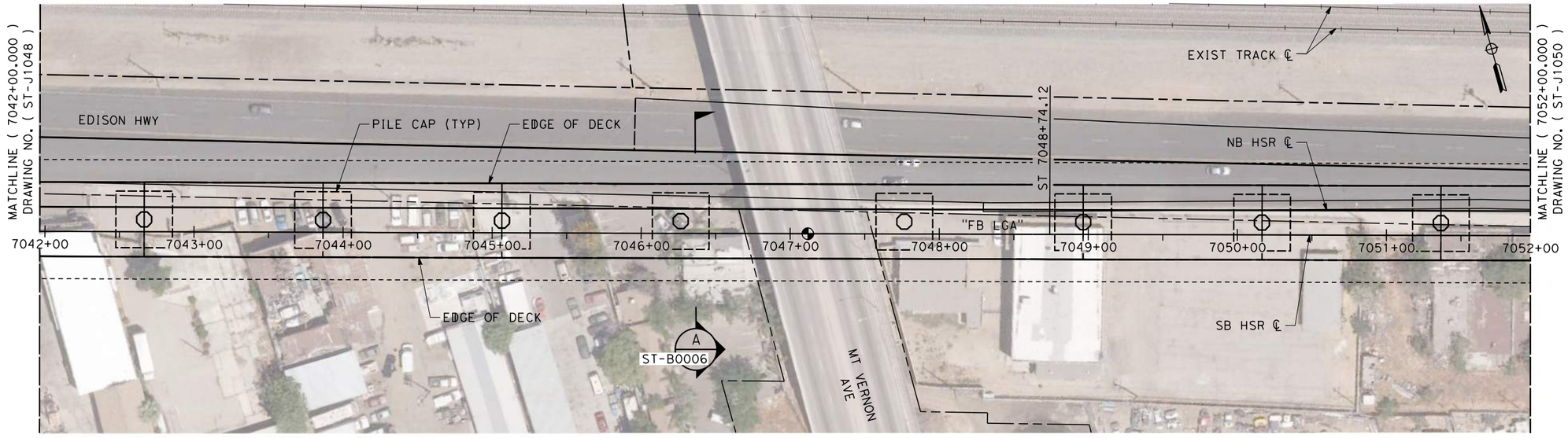
TOP OF RAIL "FB LGA" LINE

NO SCALE



ELEVATION

SCALE: 1" = 40'



40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

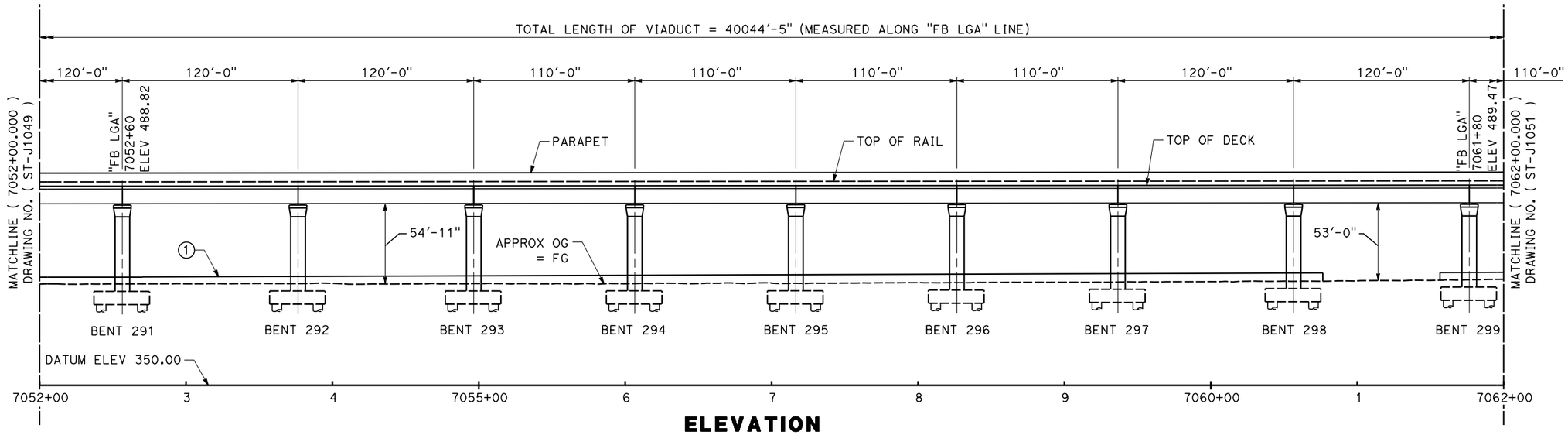
CONTRACT NO. HSR13-44
DRAWING NO. ST-J1049
SCALE AS SHOWN
SHEET NO.

6928+00.00 EVC
ELEV 480.06

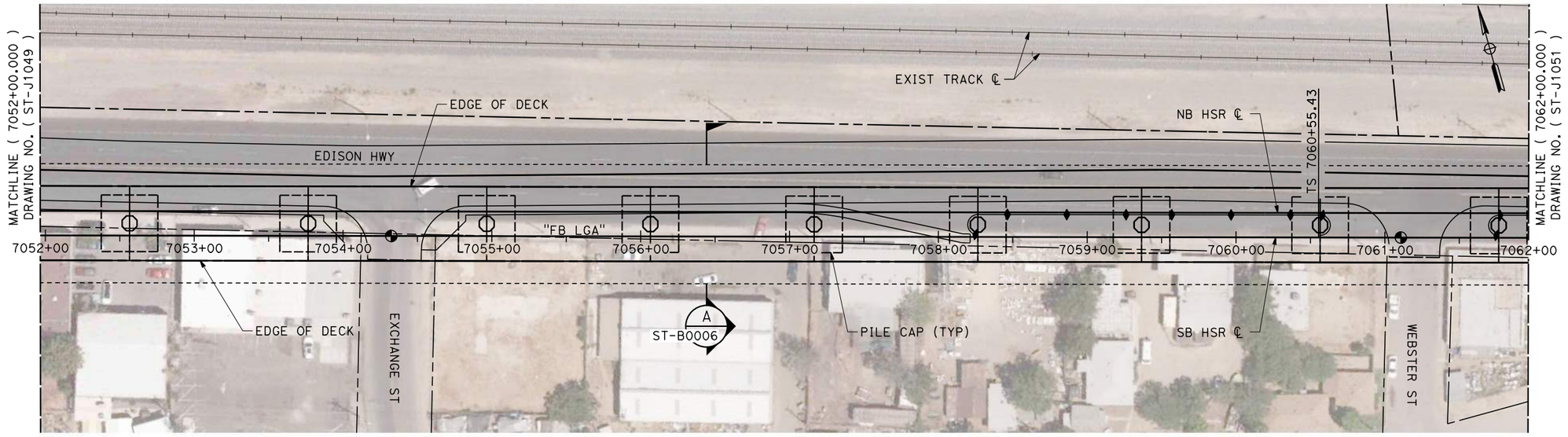
+0.070%

7101+04.43
ELEV 492.22

TOP OF RAIL "FB LGA" LINE
NO SCALE



ELEVATION
SCALE: 1" = 40'



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN
SCALE: 1" = 40'

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

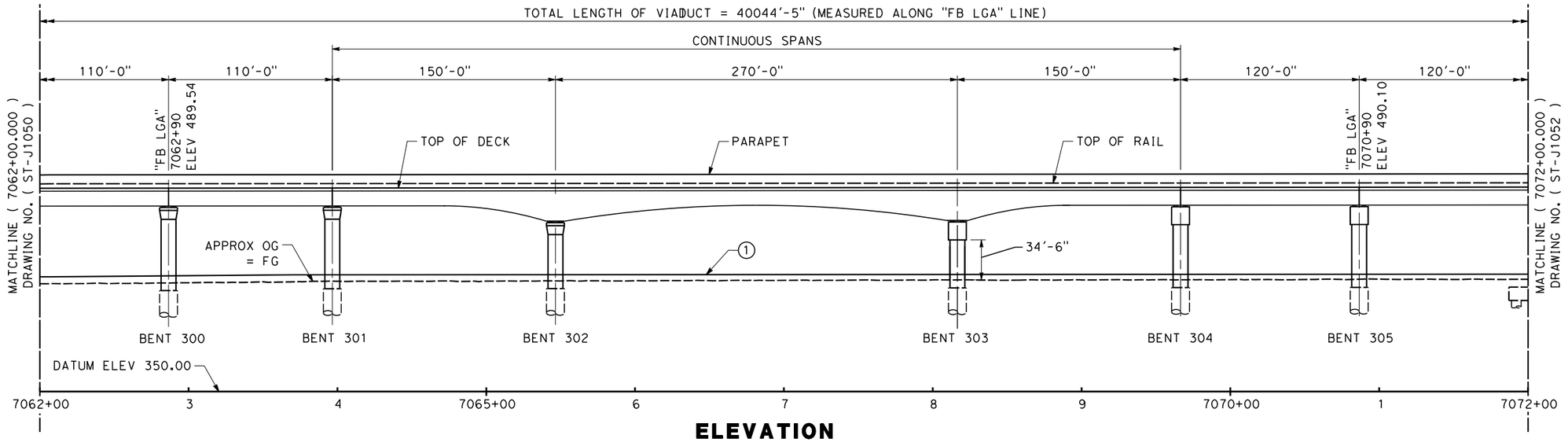
CONTRACT NO. HSR13-44
DRAWING NO. ST-J1050
SCALE AS SHOWN
SHEET NO.

6928+00.00 EVC
ELEV 480.06

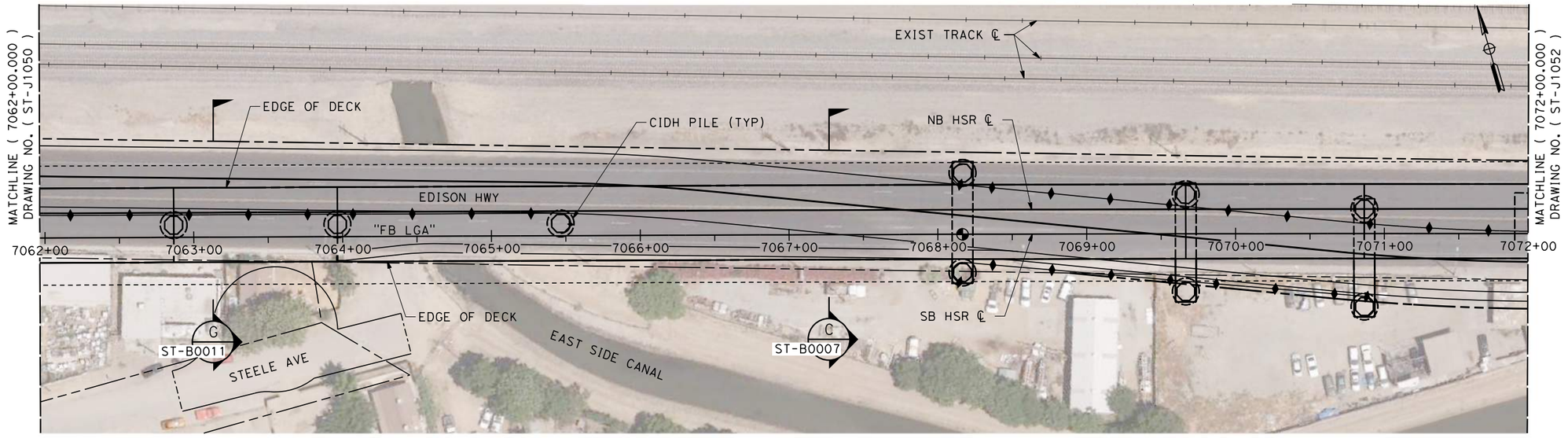
+0.070%

7101+04.43
ELEV 492.22

TOP OF RAIL "FB LGA" LINE
NO SCALE



ELEVATION
SCALE: 1" = 40'



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN
SCALE: 1" = 40'

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

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

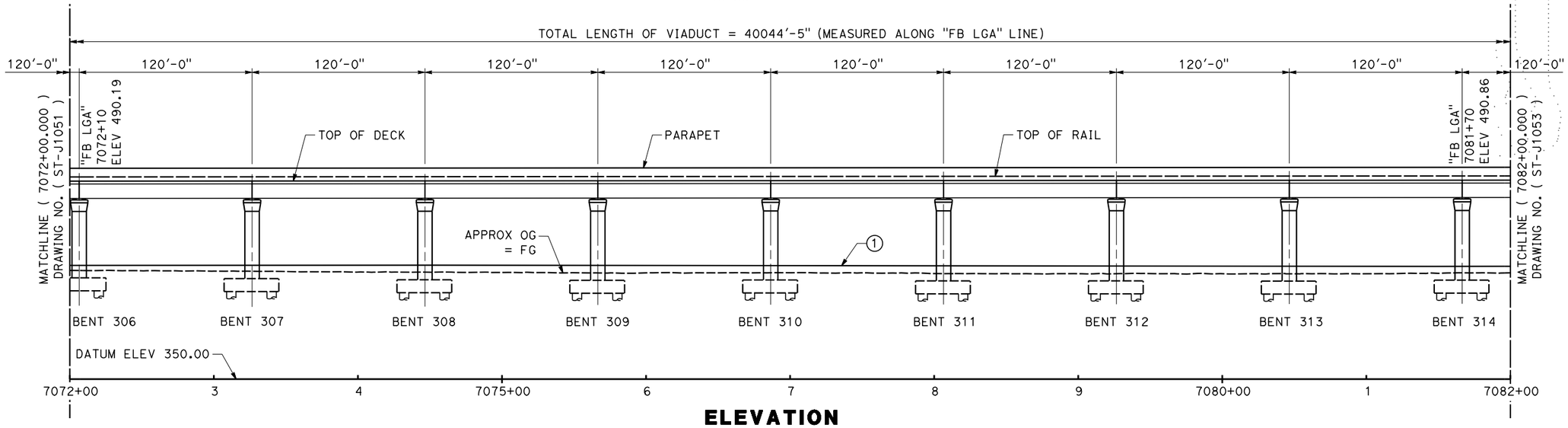
CONTRACT NO. HSR13-44
DRAWING NO. ST-J1051
SCALE AS SHOWN
SHEET NO.

6928+00.00 EVC
ELEV 480.06

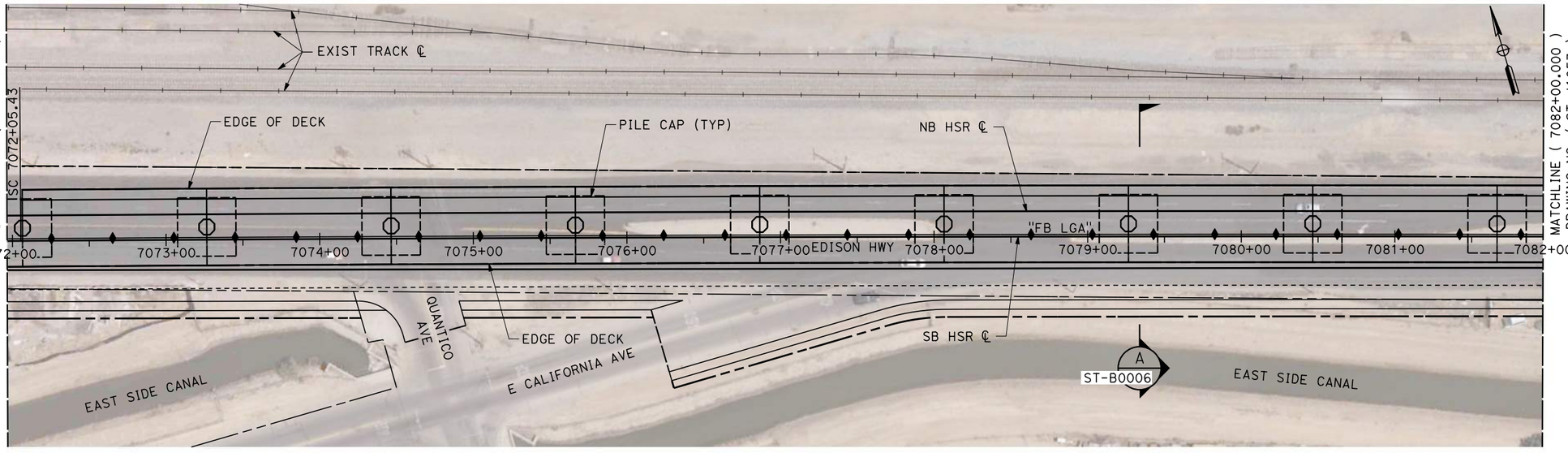
+0.070%

7101+04.43
ELEV 492.22

TOP OF RAIL "FB LGA" LINE
NO SCALE



ELEVATION
SCALE: 1" = 40'



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN
SCALE: 1" = 40'

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

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

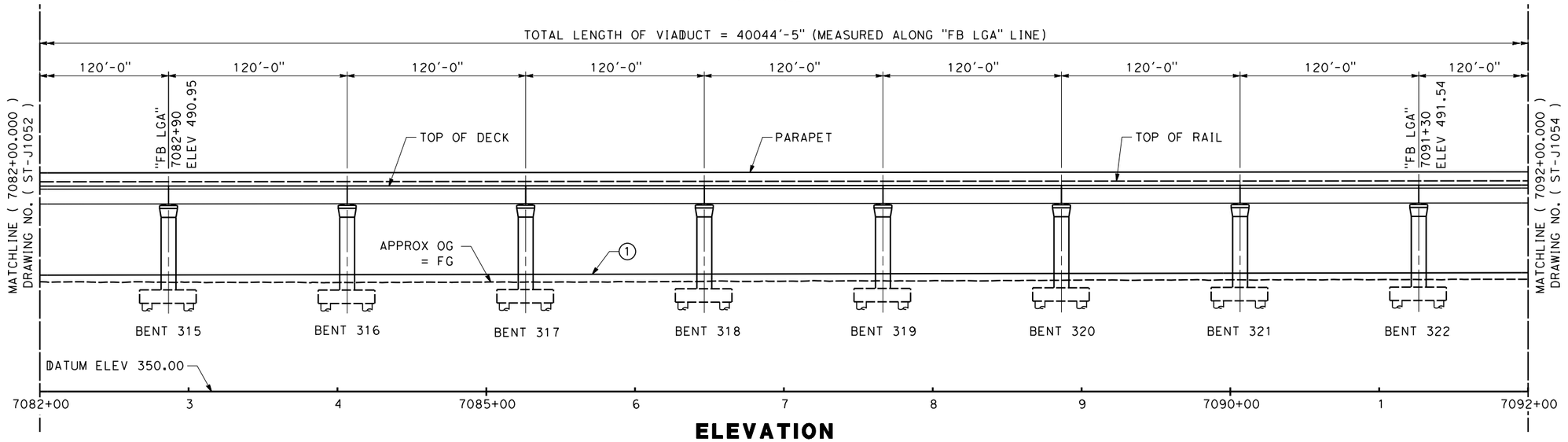
CONTRACT NO. HSR13-44
DRAWING NO. ST-J1052
SCALE AS SHOWN
SHEET NO.

6928+00.00 EVC
ELEV 480.06

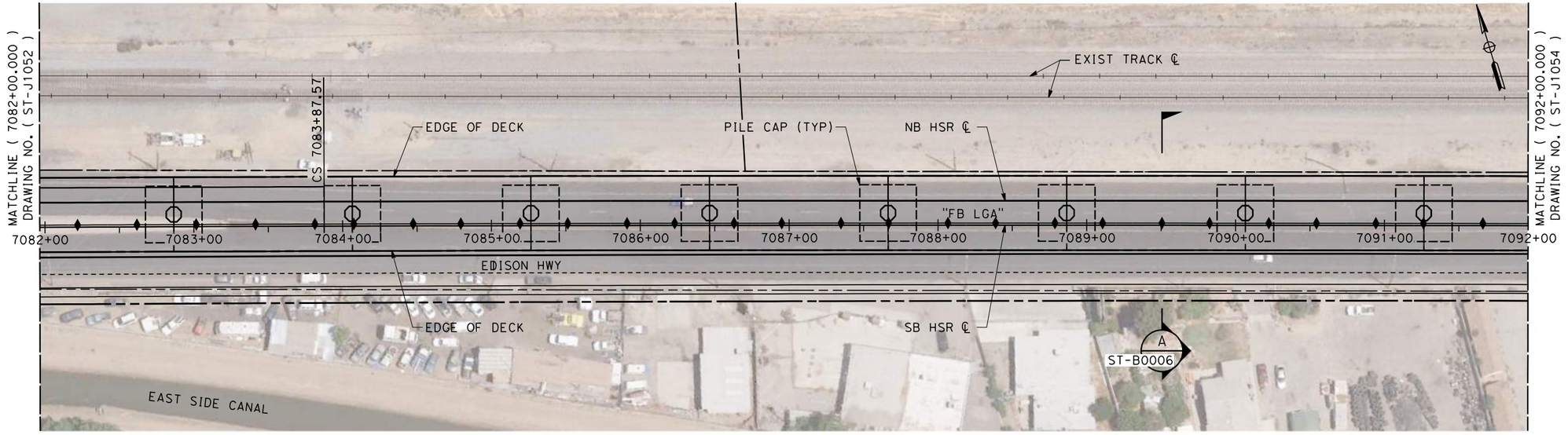
+0.070%

7101+04.43
ELEV 492.22

TOP OF RAIL "FB LGA" LINE
NO SCALE



ELEVATION
SCALE: 1" = 40'



40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN
SCALE: 1" = 40'

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

T-Y-LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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.

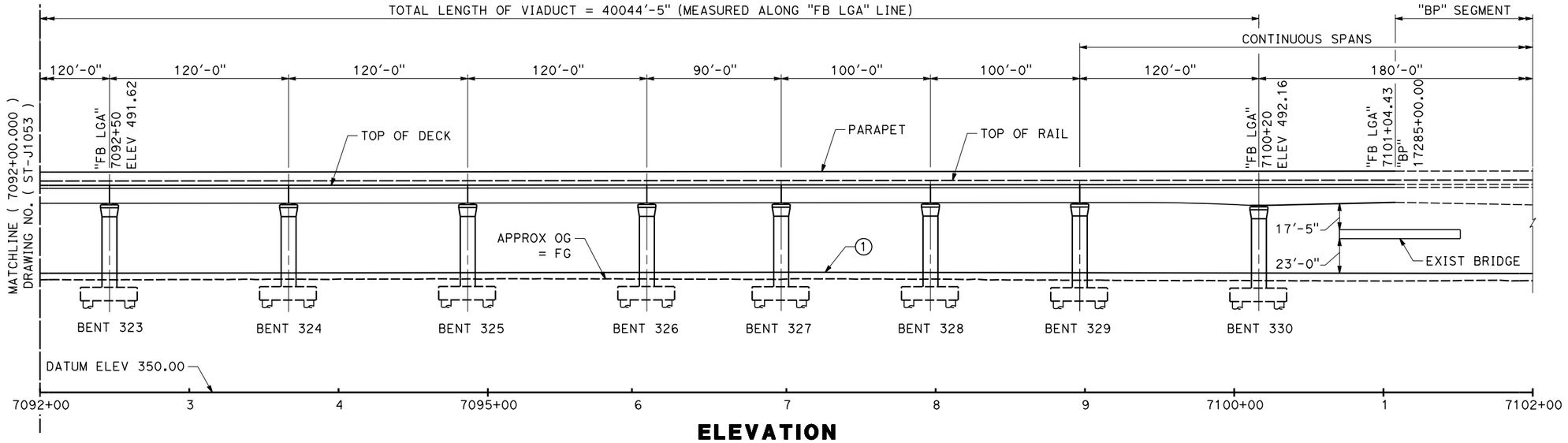
6928+00.00 EVC
ELEV 480.06

+0.070%

7101+04.43
ELEV 492.22

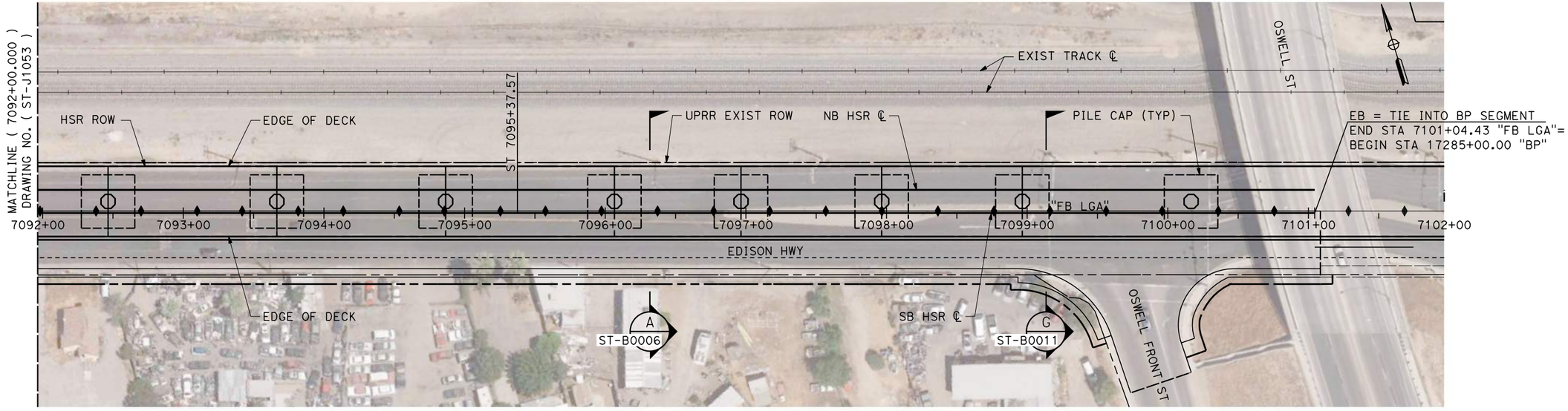
TOP OF RAIL "FB LGA" LINE

NO SCALE



ELEVATION

SCALE: 1" = 40'



40 0 40 80

1"=40'

SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN

SCALE: 1" = 40'

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

T·Y·LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

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.

California High-Speed Rail Authority

Fresno to Bakersfield

Coordination Set
Locally Generated Alternative (LGA)

Station Plans
January 2020

CALIFORNIA
High-Speed Rail Authority

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
A1815	MEZZANINE FLOOR PLAN-MAIN ENTRANCE
A1816	PLATFORM FLOOR PLAN-MAIN ENTRANCE
A1817	CONCOURSE FLOOR PLAN-SECONDARY ENTRANCE
A1818	MEZZANINE FLOOR PLAN-SECONDARY ENTRANCE
A3801	LONGITUDINAL SECTION
A3802	BUILDING SECTION & ELEVATION
A6801	ROOM SCHEDULE
A9801	AXONOMETRIC VIEW
A9802	PRESPECTIVE VIEWS
A9803	AERIAL VIEW

11/4/2016 3:37:00 PM c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidaroI.rvt

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

T.Y. LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

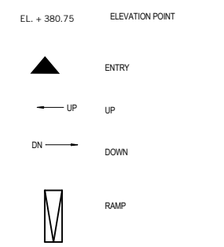
CONTRACT NO. HSR13-44
DRAWING NO. G00-01
SCALE N/A
SHEET NO.

ABBREVIATIONS LEGEND

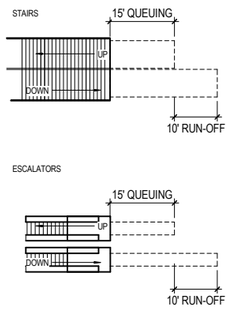
ADA	AMERICANS WITH DISABILITIES ACT
BLDG	BUILDING
BRT	BUS RAPID TRANSIT
℄	CENTER LINE
H.S.R.	HIGH-SPEED RAIL
N.I.C.	NOT IN CONTRACT
NB	NORTHBOUND
N.O.S.	NON-OCCUPIED SPACE
PED	PEDESTRIAN
SB	SOUTHBOUND
TYP.	TYPICAL

SYMBOLS LEGEND

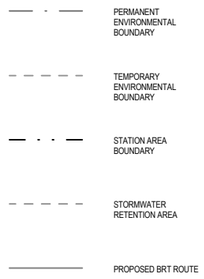
GENERAL SYMBOLS



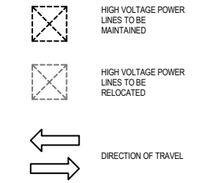
QUEUING SYMBOLS



SITE SYMBOLS



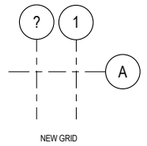
CIVIL / ROADWAY SYMBOLS



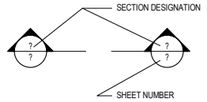
SCALE BAR

NORTH ARROW

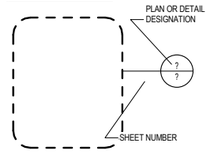
BUILDING COLUMN GRID DESIGNATION



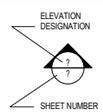
BUILDING SECTION TAG



ENLARGED PLAN TAG



EXTERIOR ELEVATION TAG



GENERAL PROJECT NOTES

1. 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.

2. Bakersfield F Street Station platform is situated between points STA 23 +000.39 and STA 37 +00.39.

3. All elevations values are taken from sea level.

4. 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).

5. 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.

6. 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)

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

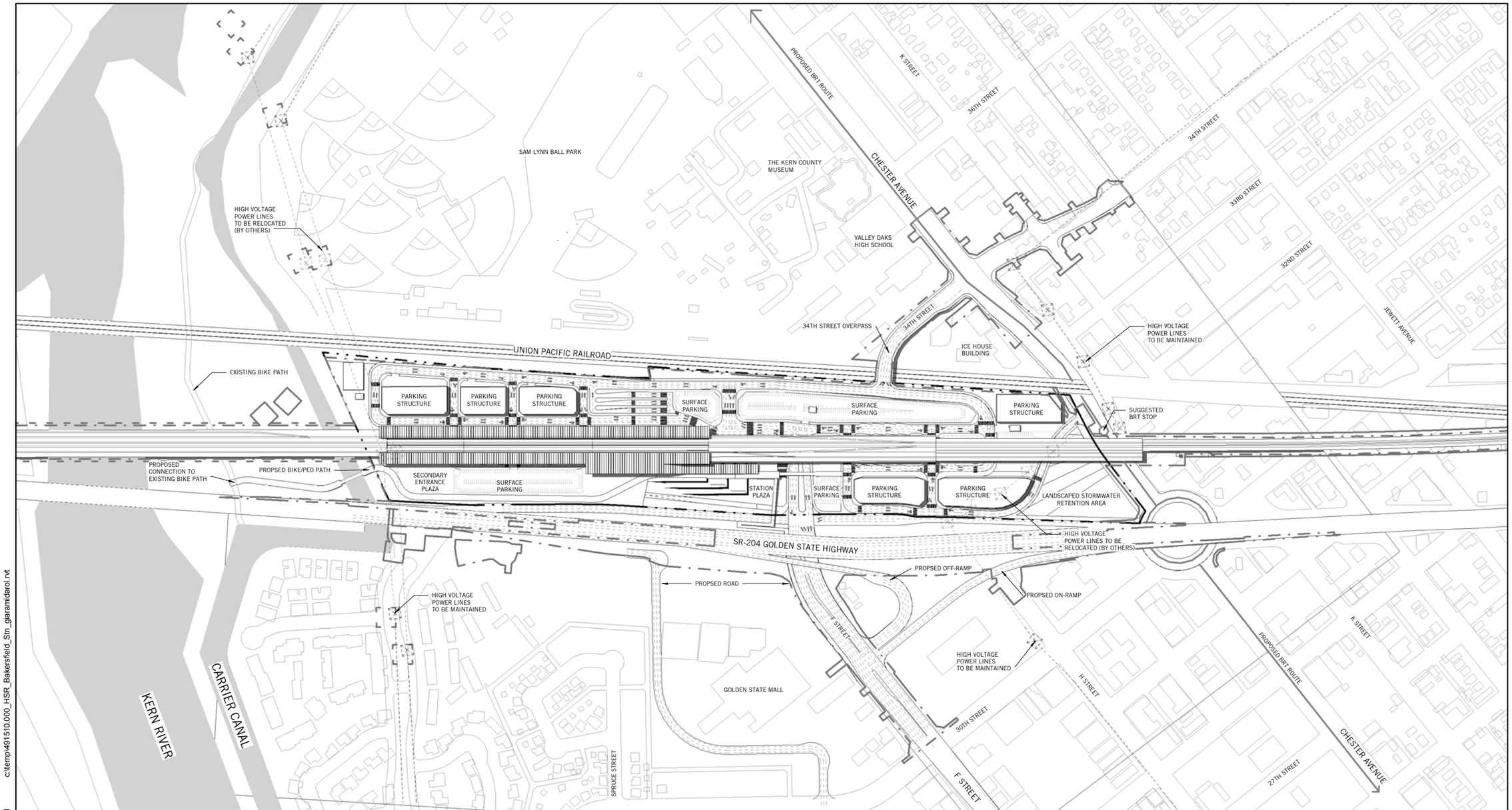
T.Y.LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATE ALTERNATIVE
BAKERSFIELD F STREET STATION
ARCHITECTURAL ABBREVIATIONS SYMBOLS AND GENERAL NOTES

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

c:\temp\4915\10.000_HSR_Bakersfield_Stn_giaramidaro\.rvt
11/4/2016 3:34:15 PM



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

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidarol.rvt
11/4/2016 3:34:22 PM

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

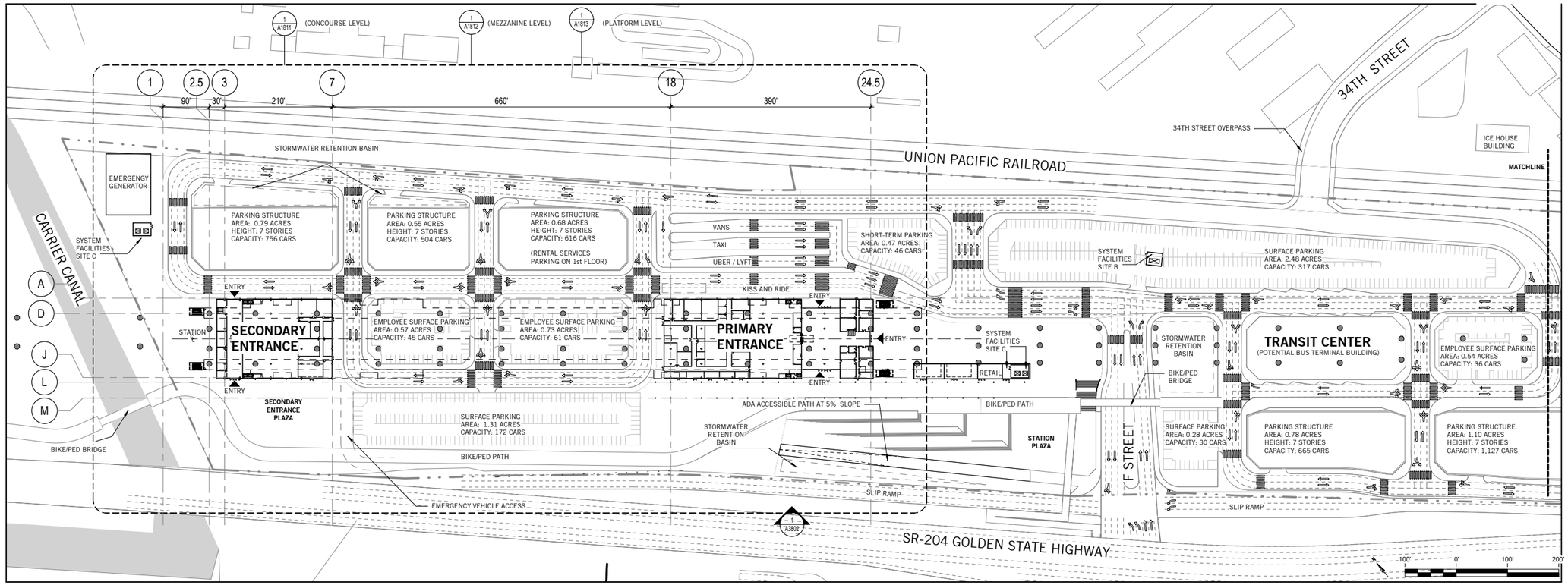
PEPD RECORD SET DESIGN SUBMISSION - NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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



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

SITE AREA & PARKING DATA

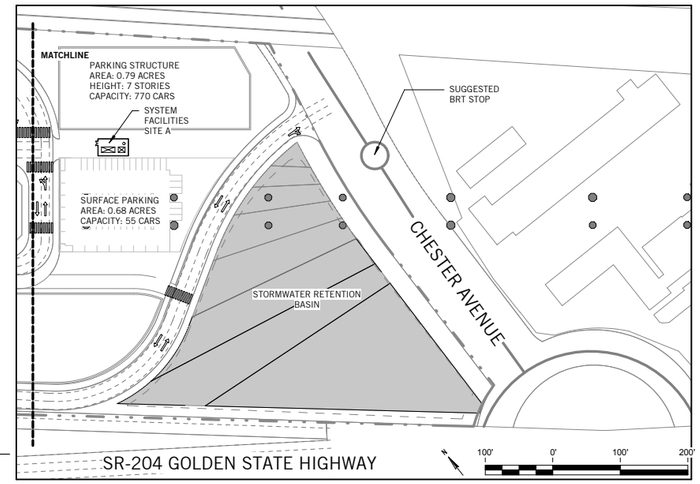
TOTAL STATION AREA: 46.25 ACRES

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"

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidarol.rvt
11/4/2016 3:34:33 PM

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

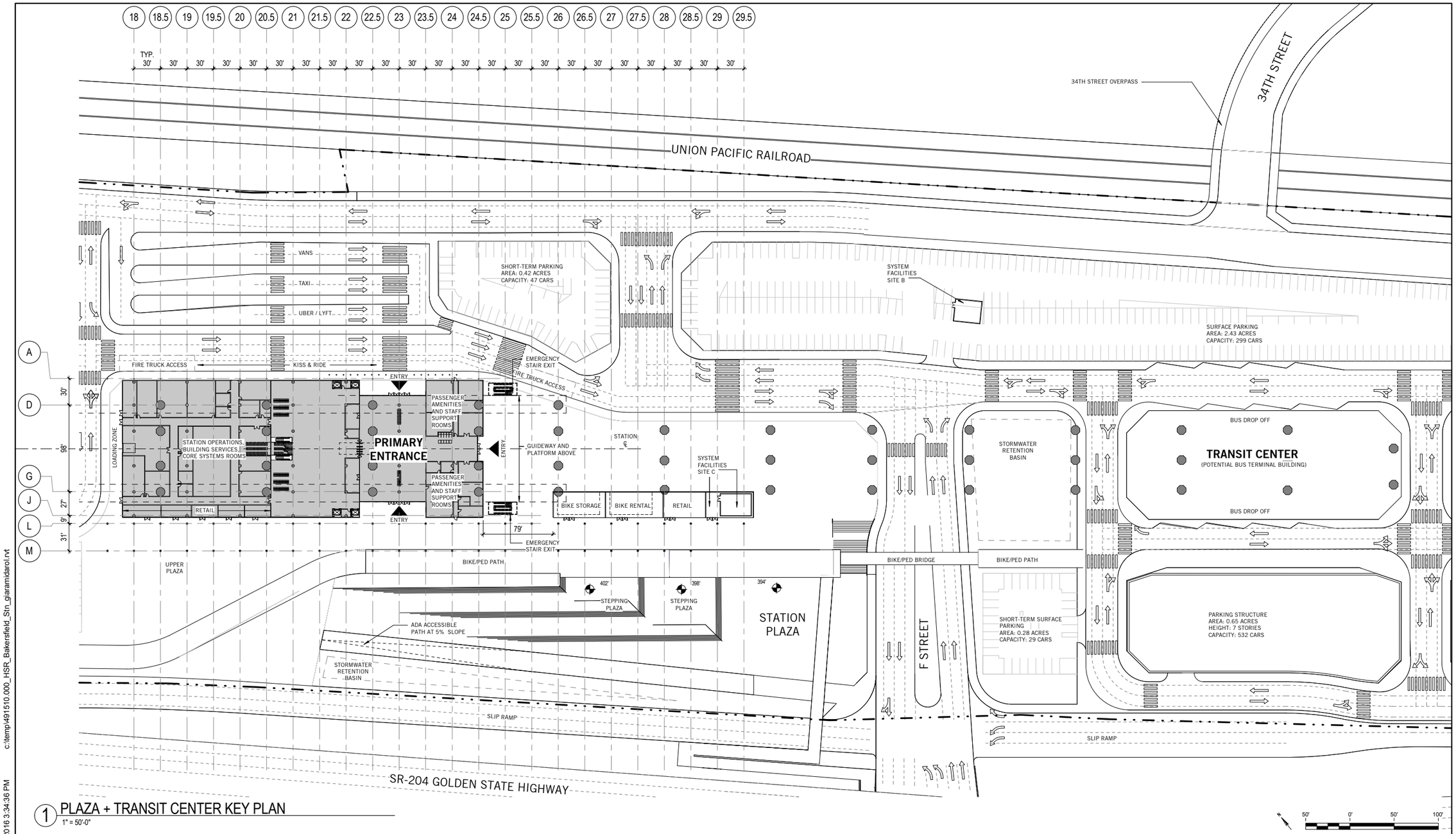
PEPD RECORD SET DESIGN SUBMISSION - NOT FOR CONSTRUCTION

TY·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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



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

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidarol.rvt

11/4/2016 3:34:36 PM

REV	DATE	BY	CHK	APP	DESCRIPTION

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

PEPD RECORD SET DESIGN SUBMISSION - NOT FOR CONSTRUCTION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

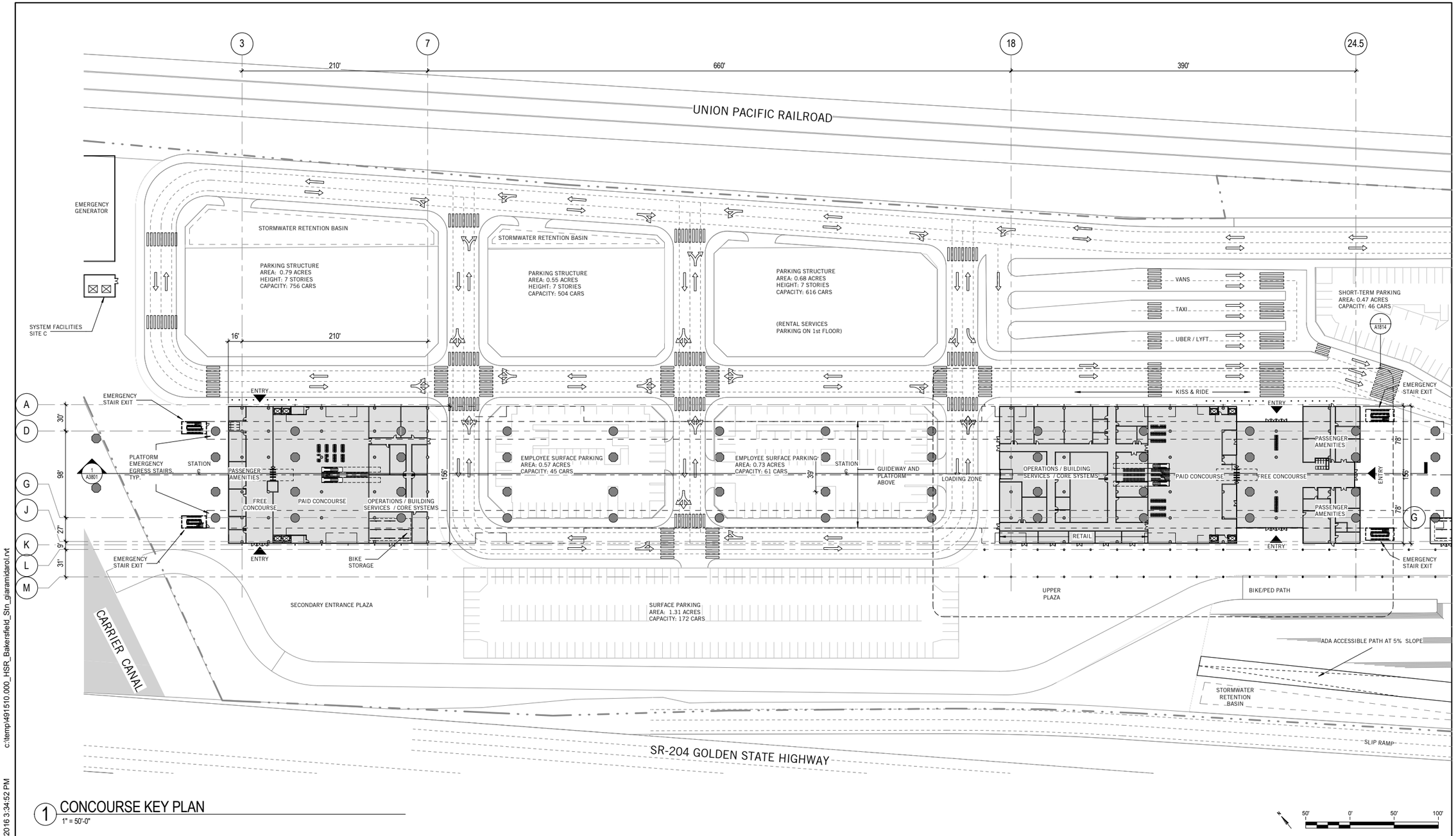
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

LOCALLY GENERATE ALTERNATIVE

BAKERSFIELD F STREET STATION

PLAZA AND TRANSIT CENTER KEY PLAN

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



1 CONCOURSE KEY PLAN

1" = 50'-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 - NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

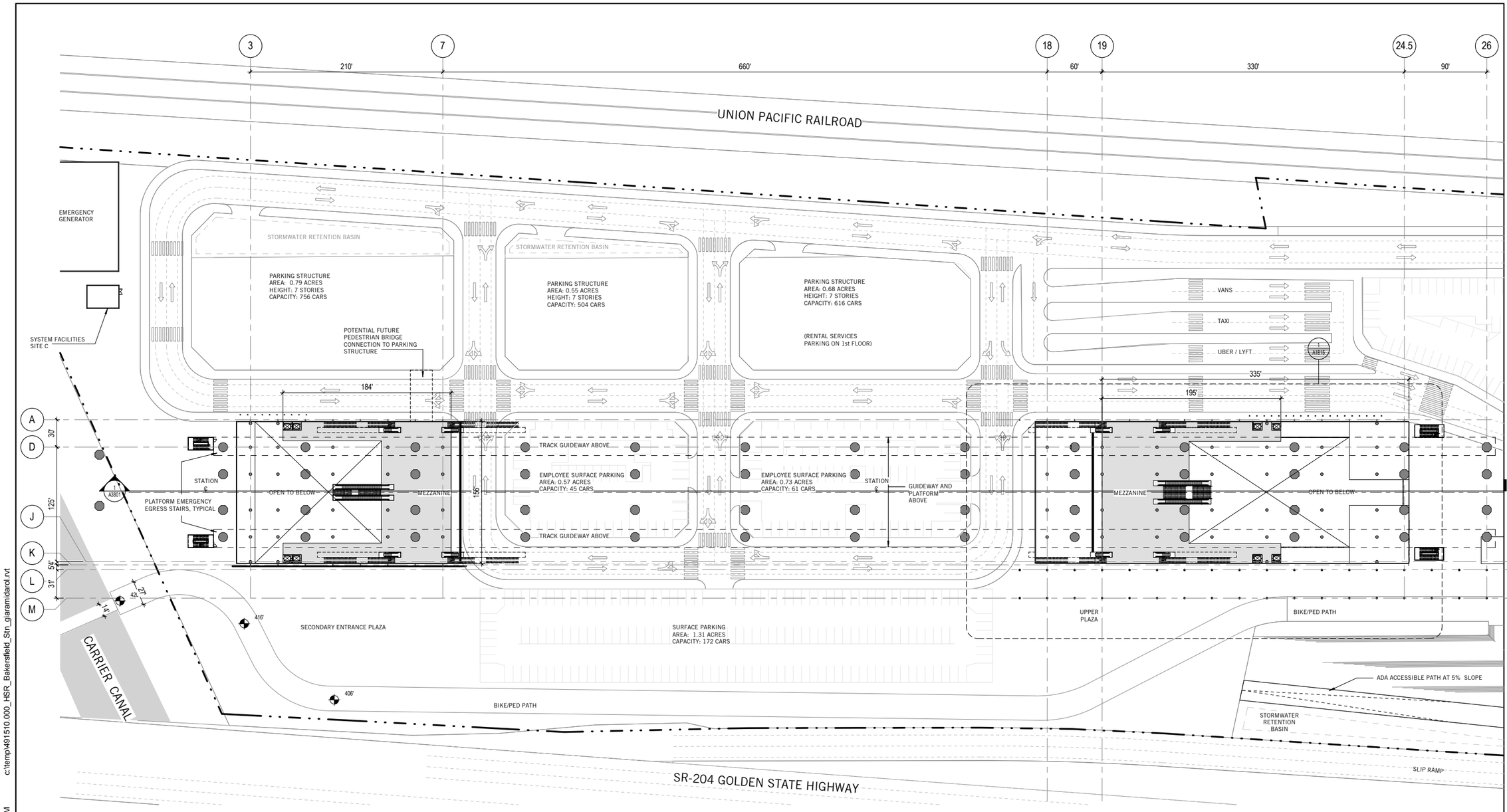
LOCALLY GENERATE ALTERNATIVE

BAKERSFIELD F STREET STATION

CONCOURSE KEY PLAN

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

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidaro.rvt
11/4/2016 3:34:52 PM



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

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidaro.rvt

11/4/2016 3:34:59 PM

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

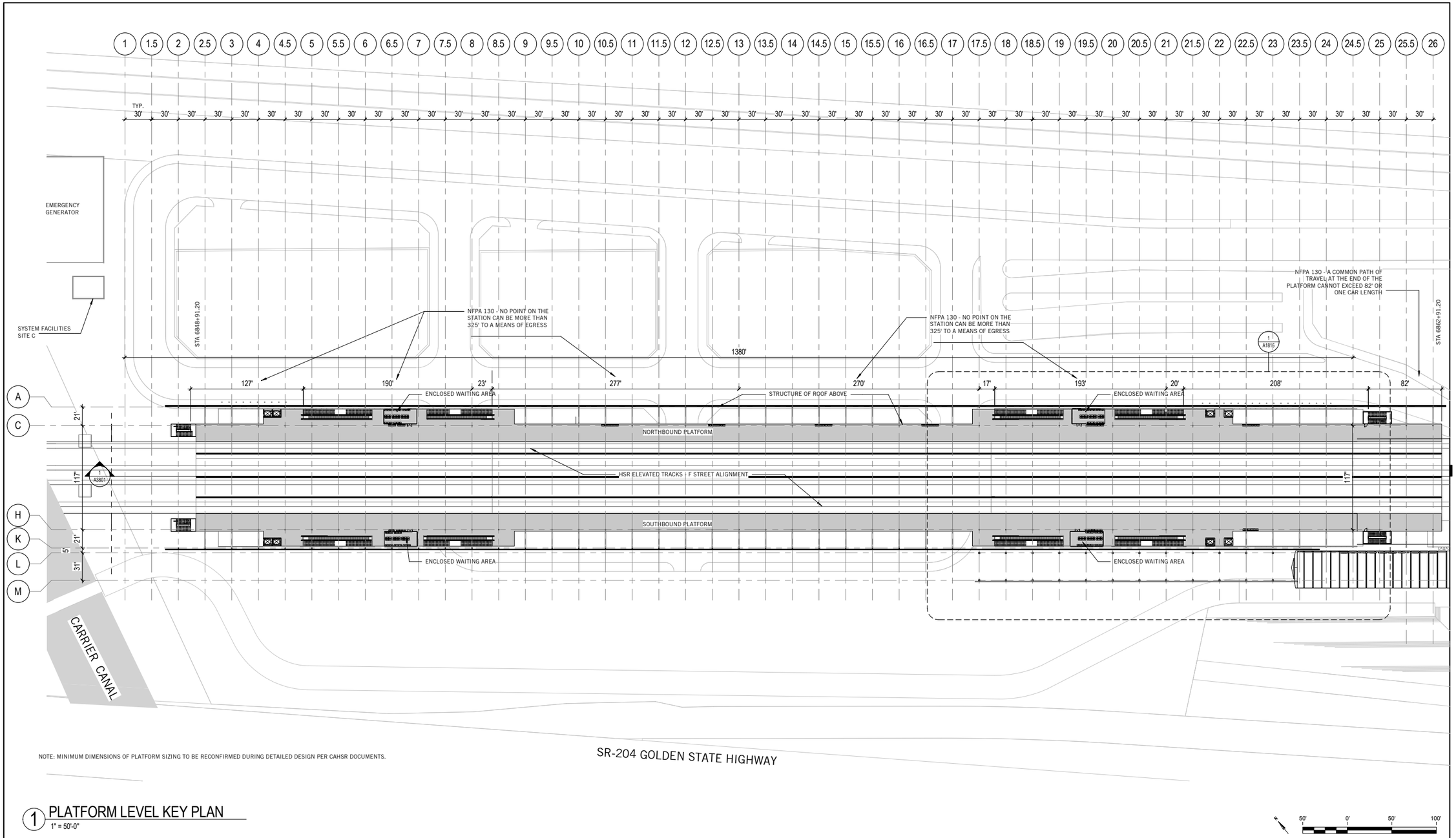
PEPD RECORD SET DESIGN SUBMISSION - NOT FOR CONSTRUCTION

TY·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATE ALTERNATIVE
BAKERSFIELD F STREET STATION
MEZZANINE KEY PLAN

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



NOTE: MINIMUM DIMENSIONS OF PLATFORM SIZING TO BE RECONFIRMED DURING DETAILED DESIGN PER CAHSR DOCUMENTS.

1 PLATFORM LEVEL KEY PLAN
1" = 50'-0"

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidarol.rvt
11/4/2016 3:35:12 PM

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

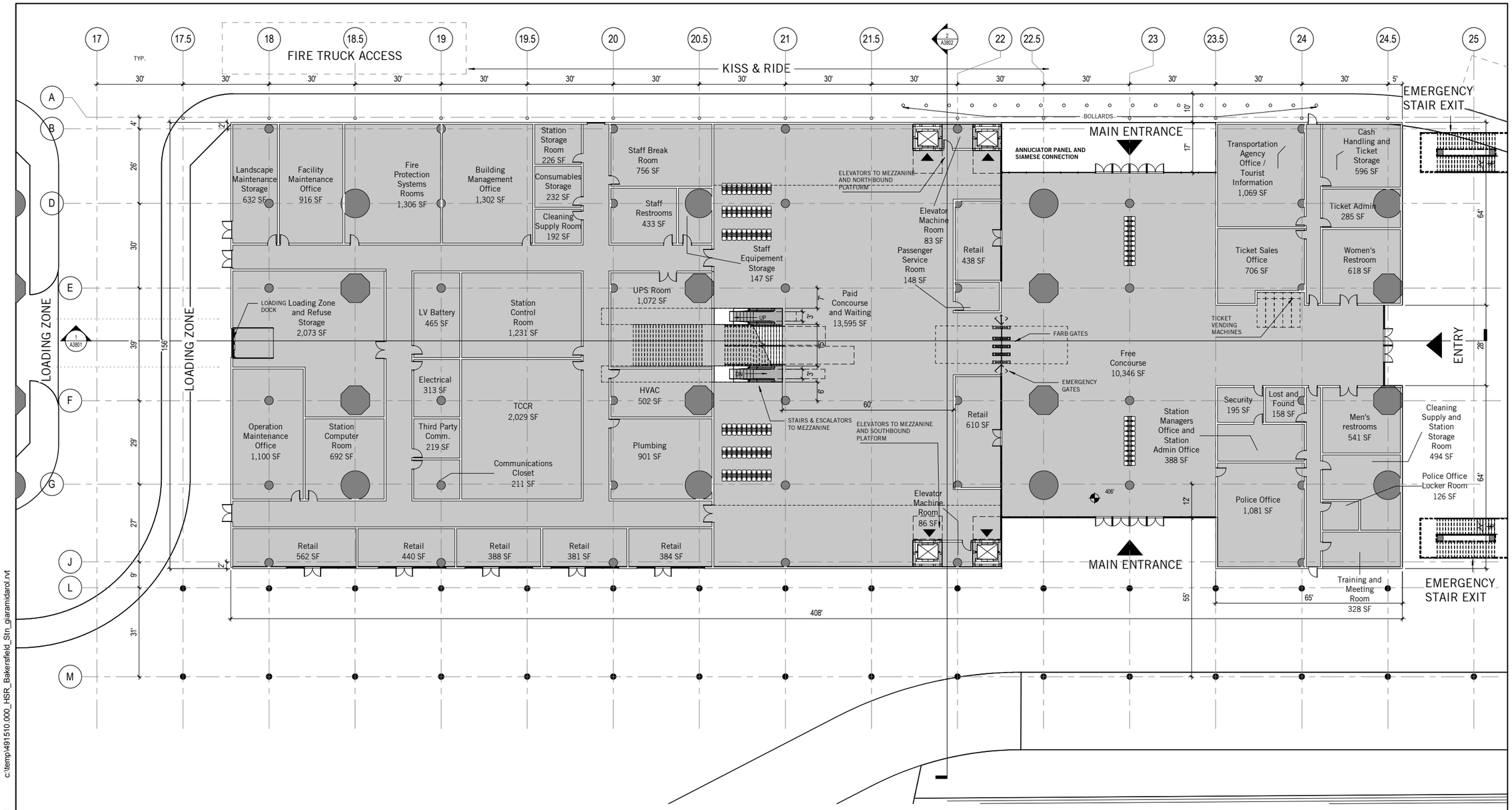
PEPD RECORD SET DESIGN SUBMISSION - NOT FOR CONSTRUCTION

TYLIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATE ALTERNATIVE
BAKERSFIELD F STREET STATION
PLATFORM LEVEL KEY PLAN

CONTRACT NO. HSR13-44
DRAWING NO. A1813
SCALE 1" = 50'-0"
SHEET NO.



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

PEPD RECORD SET DESIGN SUBMISSION - NOT FOR CONSTRUCTION

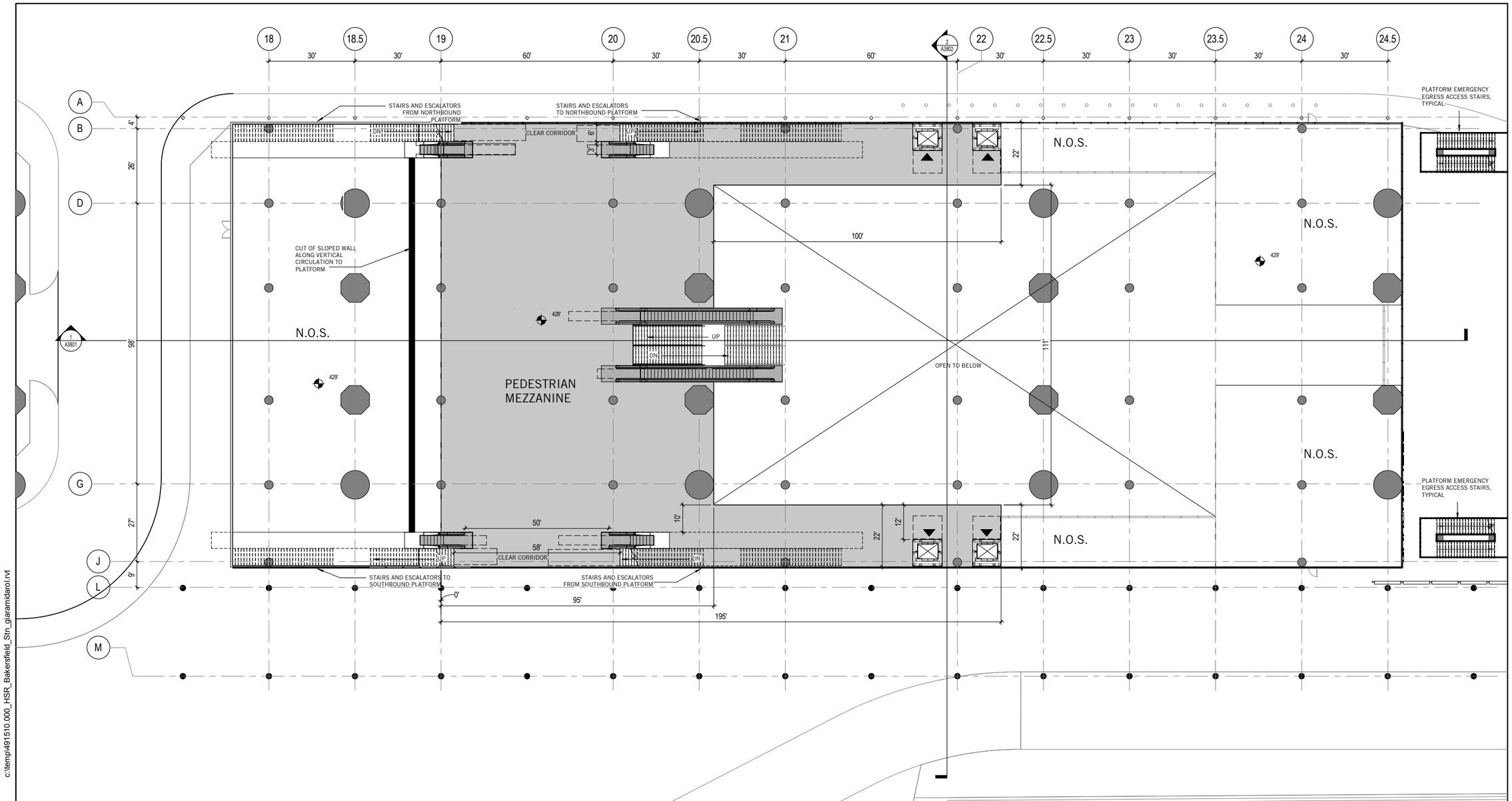
T.Y.LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR13-44
DRAWING NO. A1814
SCALE 1/16" = 1'-0"
SHEET NO.

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidarol.rvt
11/4/2016 3:35:20 PM



1 ENLARGED MEZZANINE FLOOR PLAN - MAIN ENTRANCE

1/16" = 1'-0"

16' 0' 16' 32'

c:\temp\491510.000_HSR_Bakersfield_Stn_gjaramidaro.rvt

11/4/2016 3:35:27 PM

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

TYLIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

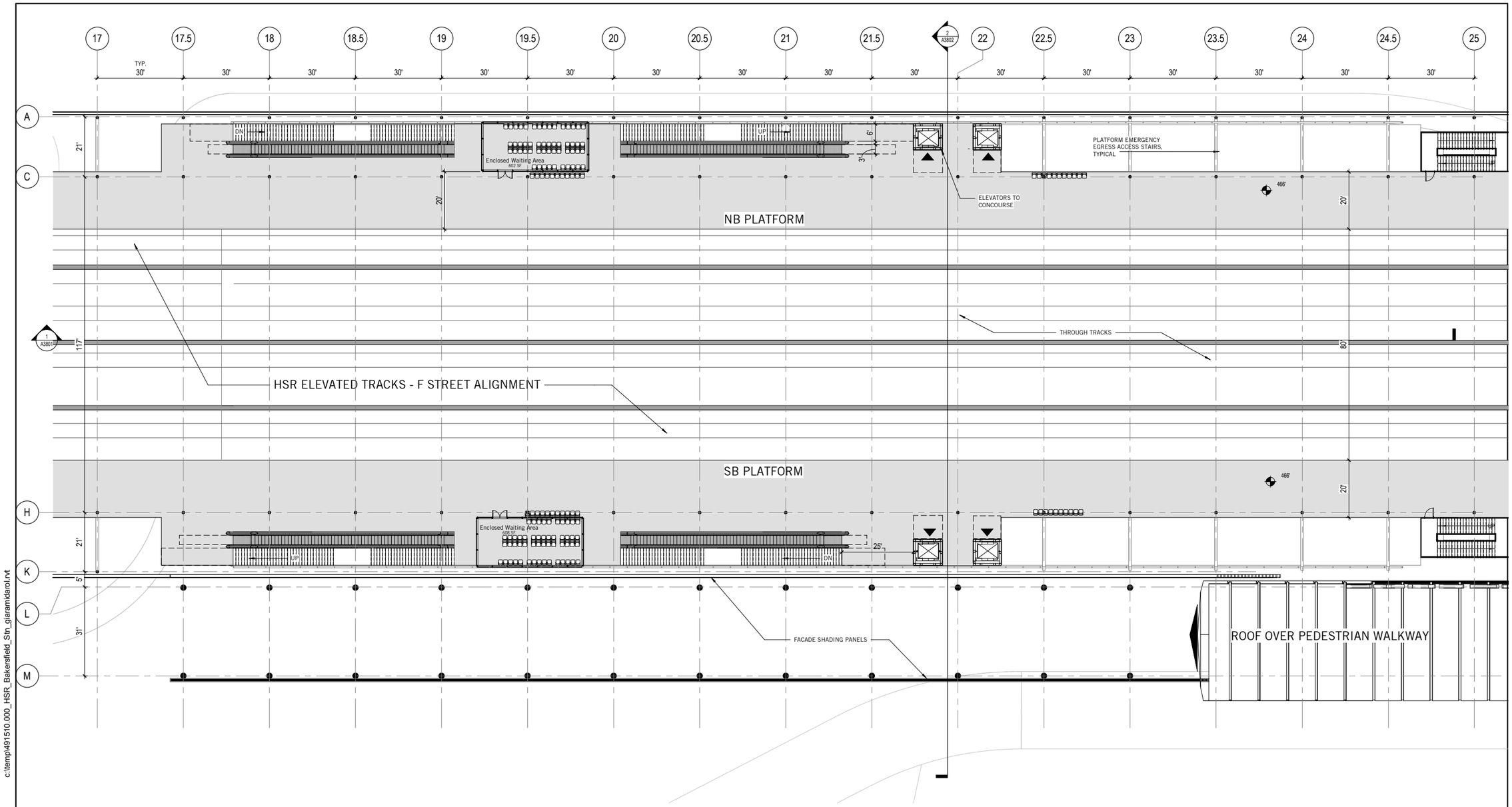
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

LOCALLY GENERATE ALTERNATIVE

BAKERSFIELD F STREET STATION

MEZZANINE FLOOR PLAN-MAIN ENTRANCE

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



ENLARGED PLATFORM - MAIN ENTRANCE

1 1/16" = 1'-0"

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidaro\.rvt

11/4/2016 3:35:35 PM

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

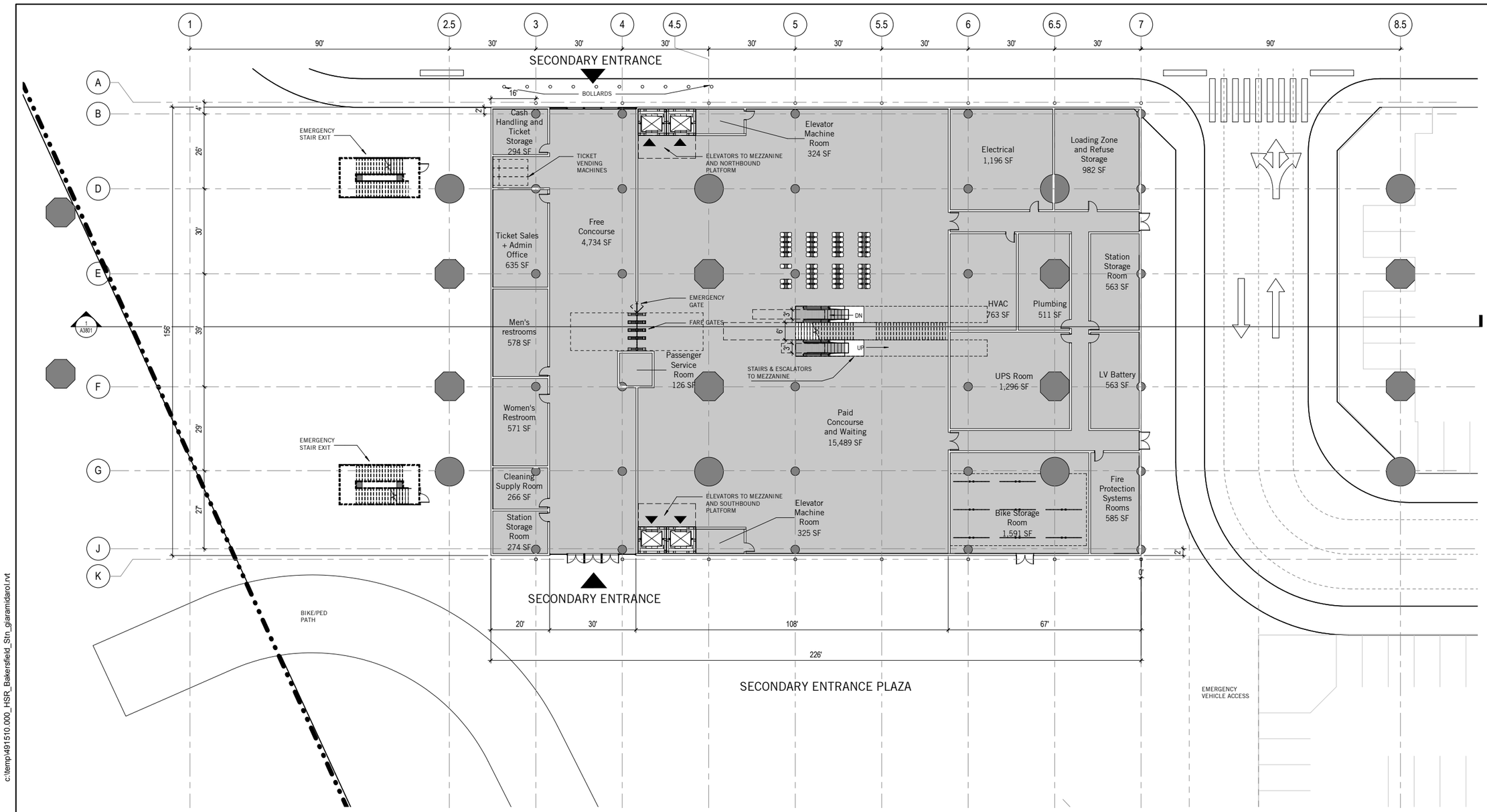
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

LOCALLY GENERATE ALTERNATIVE

BAKERSFIELD F STREET STATION

PLATFORM FLOOR PLAN-MAIN ENTRANCE

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



ENLARGED CONCOURSE FLOOR PLAN - SECONDARY ENTRANCE

1 — 1/16" = 1'-0"

16' 0' 16' 32'

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidaro.rvt

11/4/2016 3:35:43 PM

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

TY LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

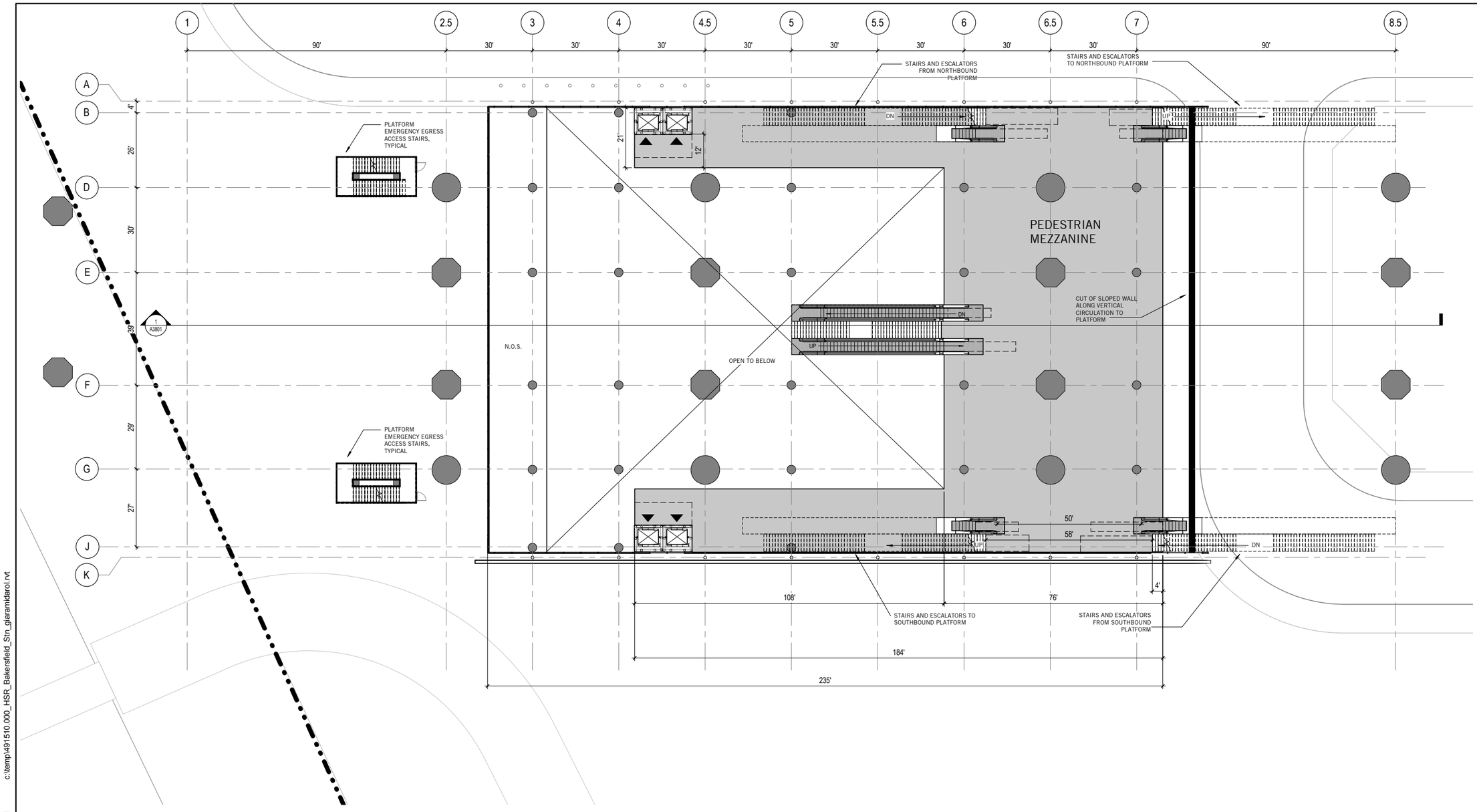
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

LOCALLY GENERATE ALTERNATIVE

BAKERSFIELD F STREET STATION

CONCOURSE FLOOR PLAN-SECONDARY ENTRANCE

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



1 ENLARGED MEZZANINE FLOOR PLAN - SECONDARY ENTRANCE

1/16" = 1'-0"

16' 0' 16' 32'

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidaroi.rvt

11/4/2016 3:35:45 PM

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

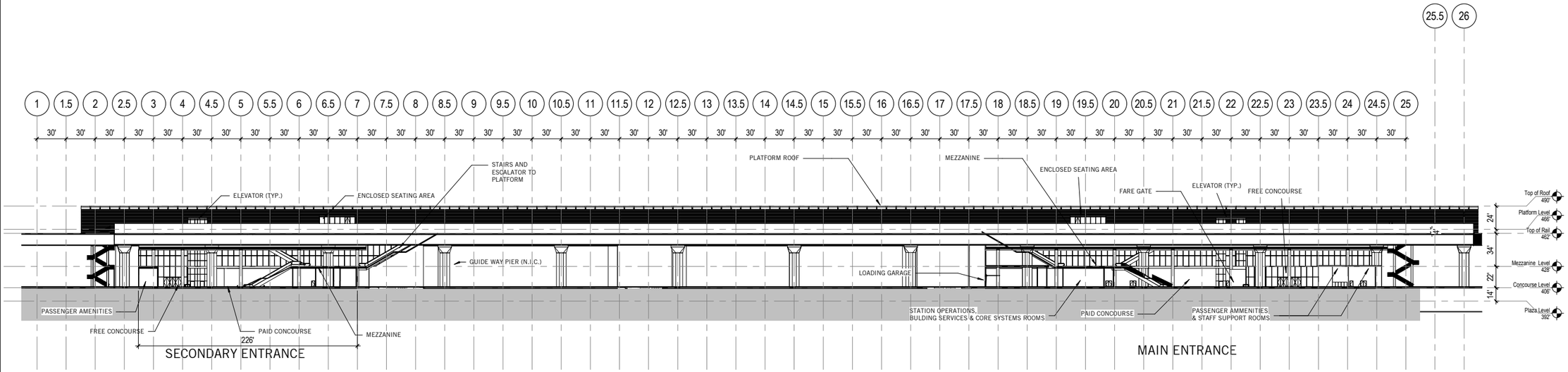
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

LOCALLY GENERATE ALTERNATIVE

BAKERSFIELD F STREET STATION

MEZZANINE FLOOR PLAN-SECONDARY ENTRANCE

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



1 LONGITUDINAL SECTION
1" = 50'-0"

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidaro.rvt

11/4/2016 3:35:47 PM

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

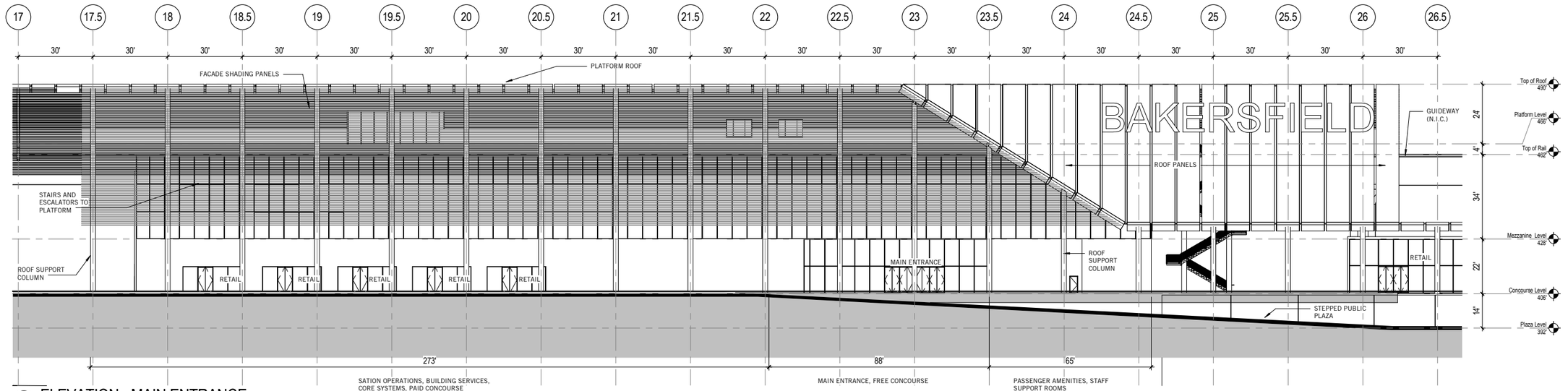
PEPD RECORD SET DESIGN SUBMISSION - NOT FOR CONSTRUCTION

TY·LIN INTERNATIONAL

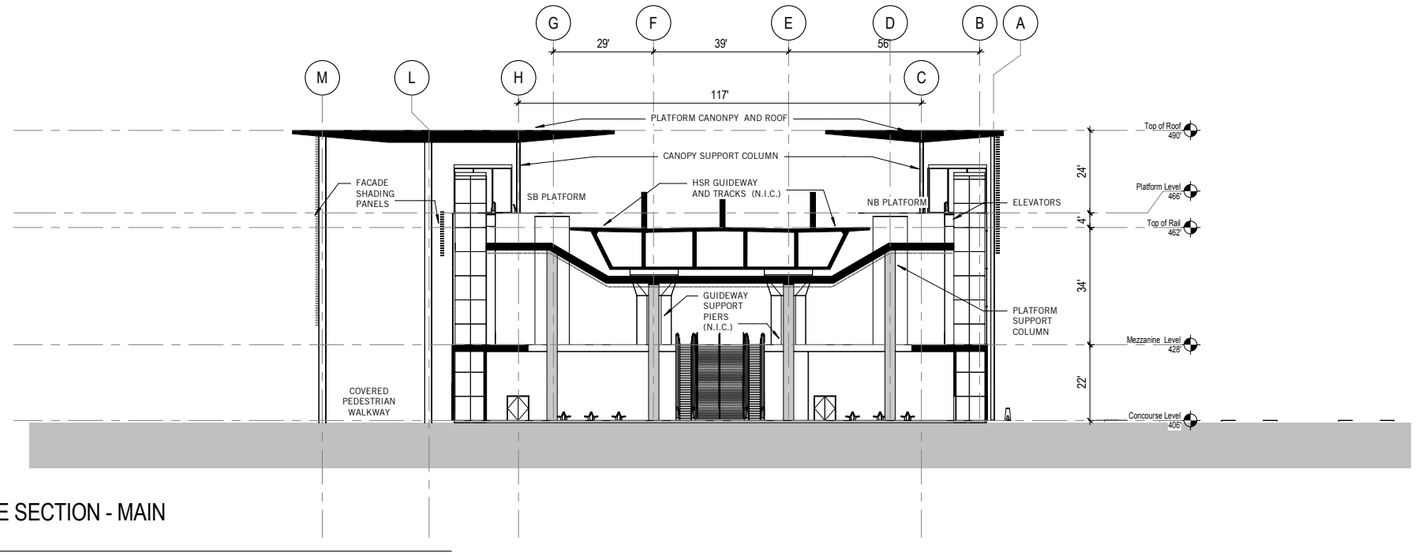
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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



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



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

20' 0' 20' 40'

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidaroI.rvt

11/4/2016 3:35:51 PM

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

TY·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

LOCALLY GENERATE ALTERNATIVE

BAKERSFIELD F STREET STATION

BUILDING SECTION & ELEVATION

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

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 Equipement 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.

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidarol.rvt
11/4/2016 3:35:51 PM

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

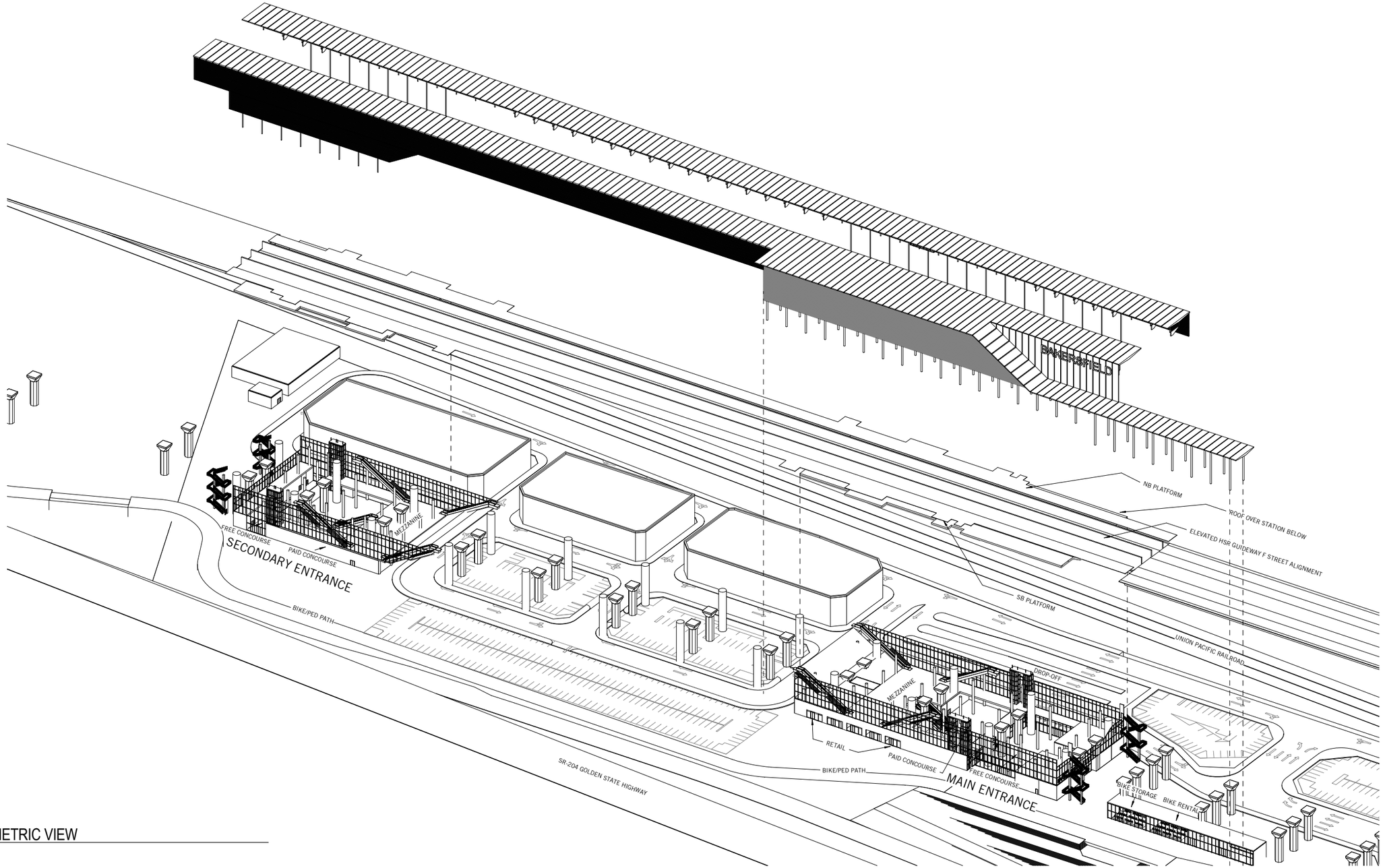
PEPD RECORD SET DESIGN SUBMISSION - NOT FOR CONSTRUCTION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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



1 AXONOMETRIC VIEW

11/4/2016 3:36:06 PM c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidarol.rvt

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

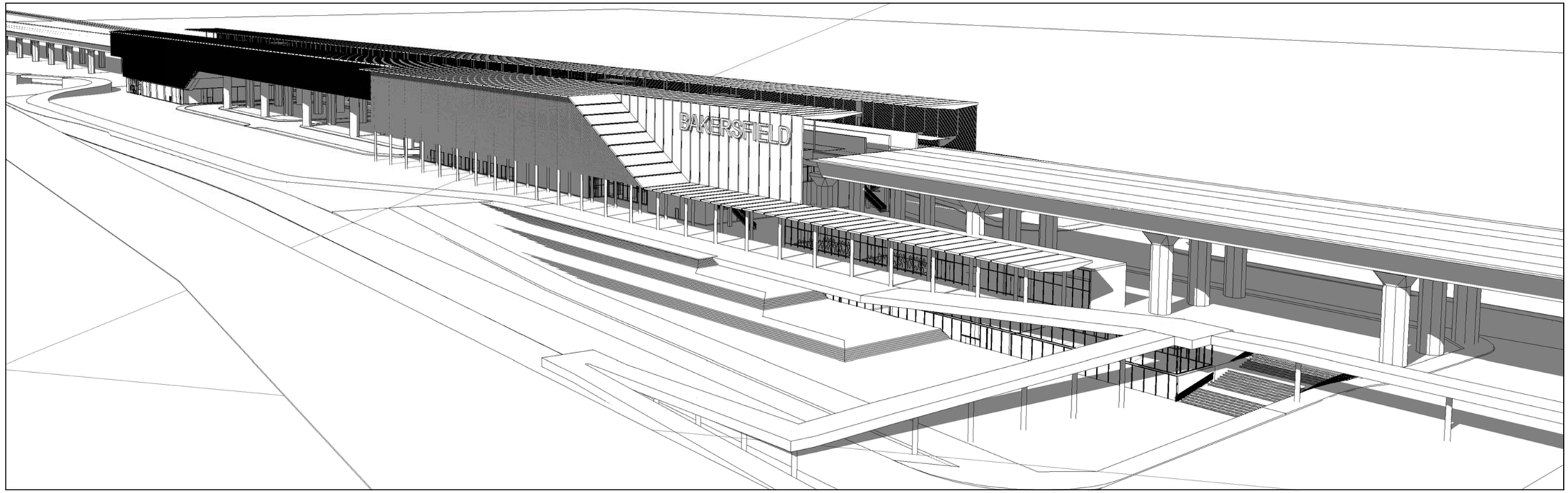
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

LOCALLY GENERATE ALTERNATIVE

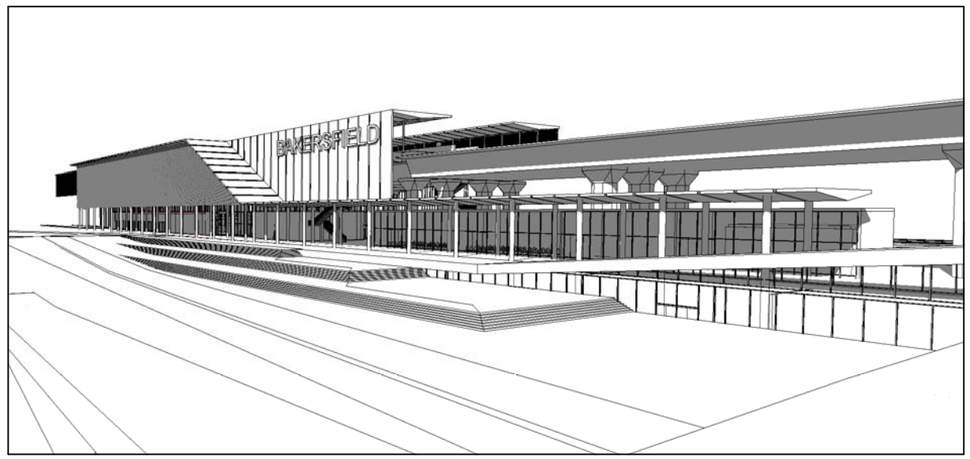
BAKERSFIELD F STREET STATION

AXONOMETRIC VIEW

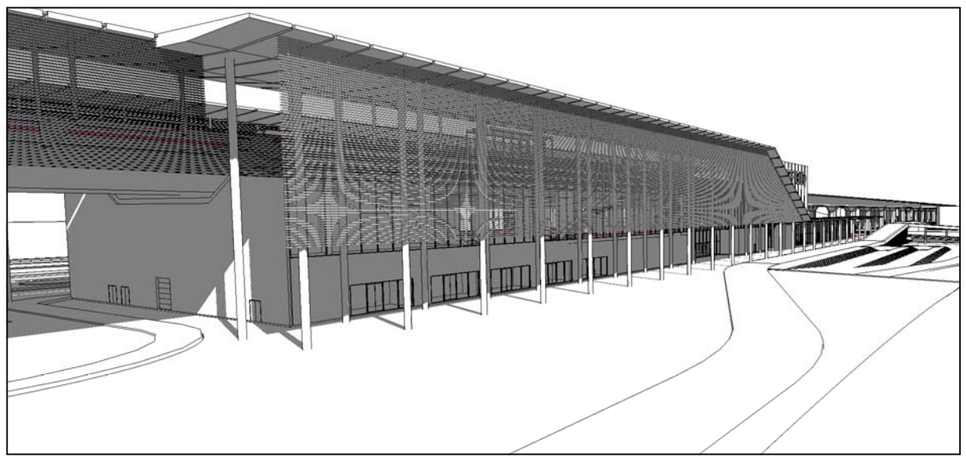
CONTRACT NO. HSR13-44
DRAWING NO. A9801
SCALE N.T.S.
SHEET NO.



1 OVERALL VIEW LOOKING WEST



2 ENTRY PLAZA VIEW LOOKING WEST



3 MAIN ENTRANCE VIEW LOOKING EAST

c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidarol.rvt

11/4/2016 3:36:34 PM

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

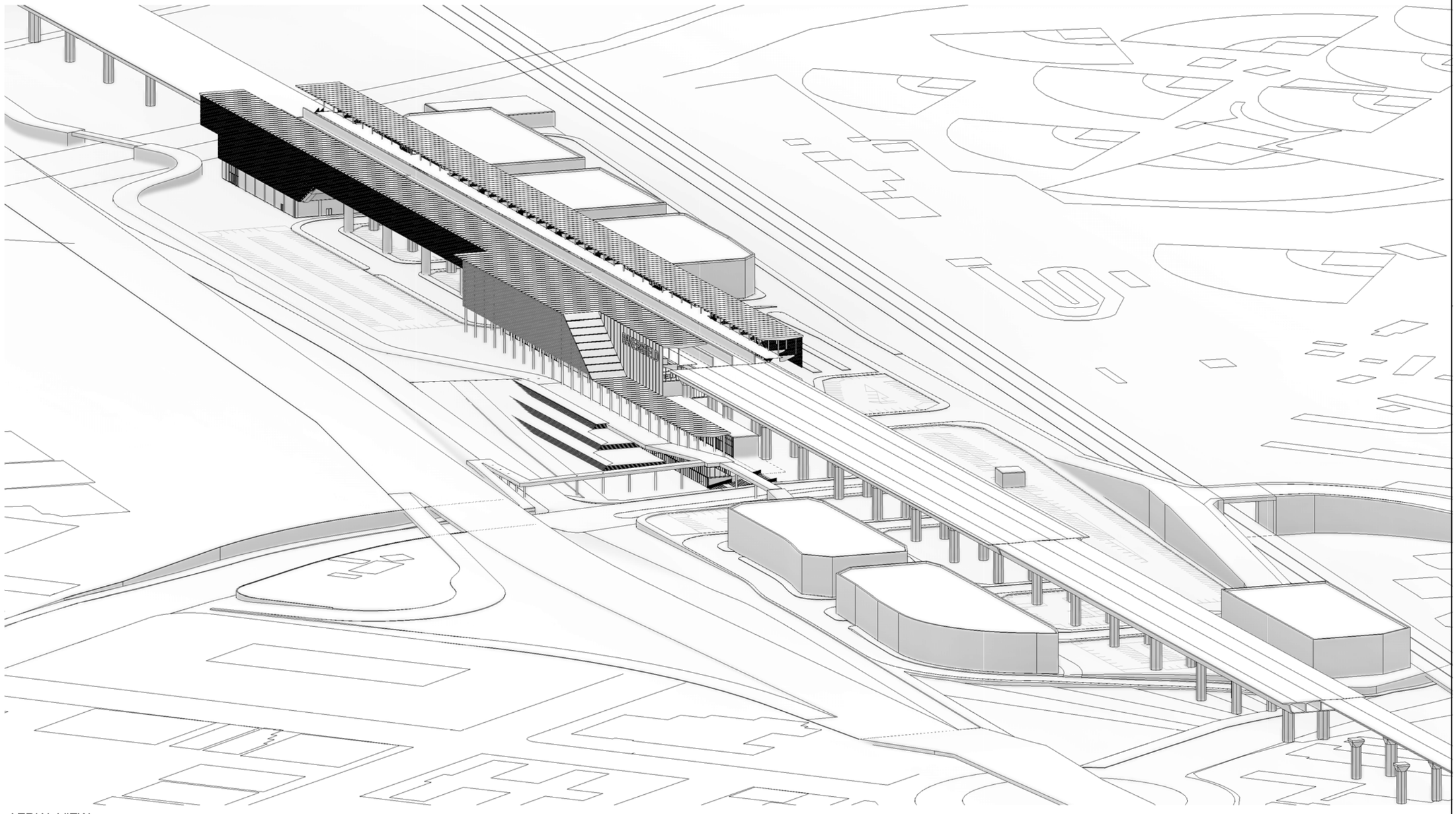
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

LOCALLY GENERATE ALTERNATIVE

BAKERSFIELD F STREET STATION

PRESPECTIVE VIEWS

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



2 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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

LOCALLY GENERATE ALTERNATIVE

BAKERSFIELD F STREET STATION

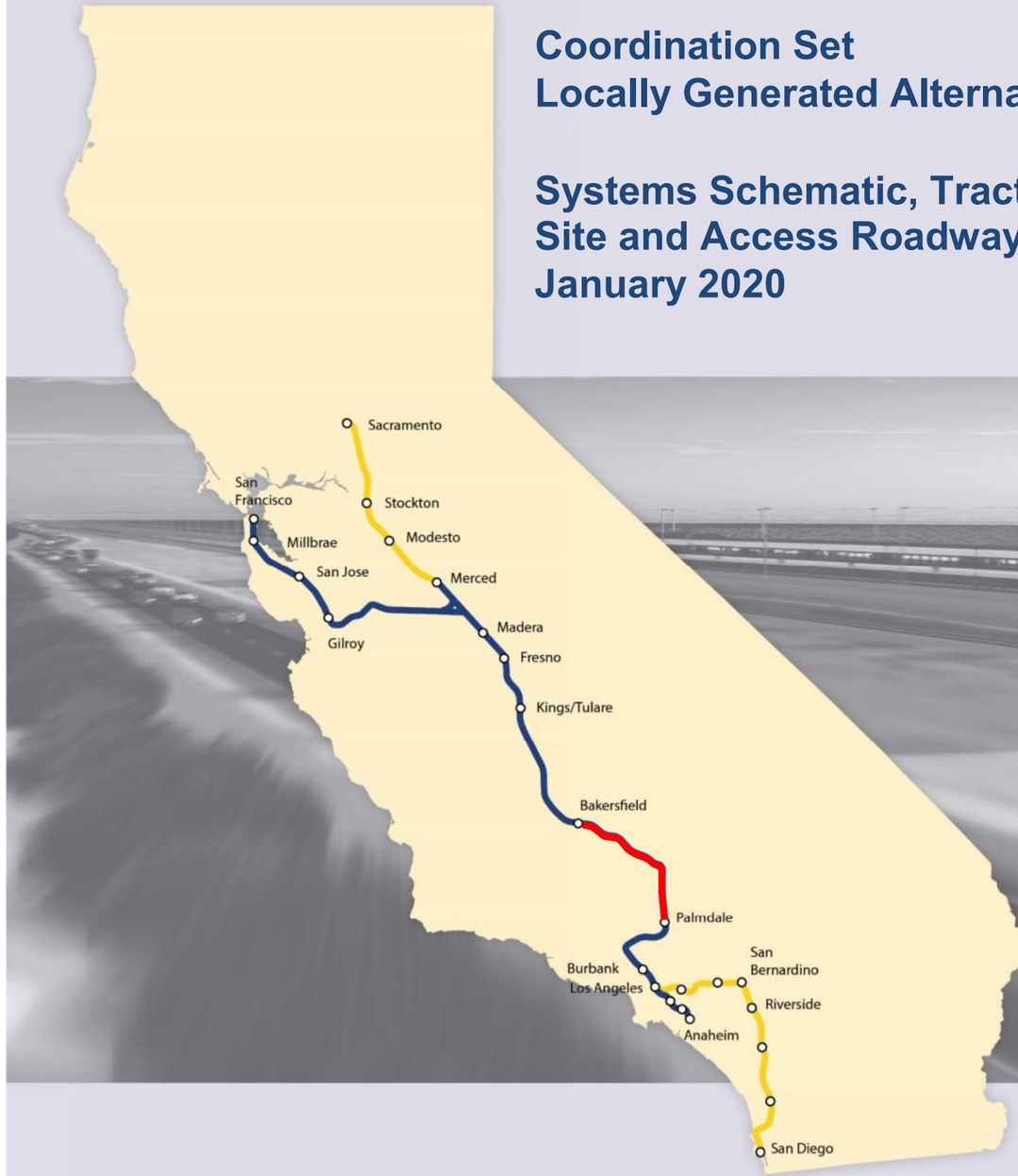
AERIAL VIEW

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

11/4/2016 3:36:59 PM c:\temp\491510.000_HSR_Bakersfield_Stn_giaramidarol.rvt

California High-Speed Rail Authority

Fresno to Bakersfield



Coordination Set
Locally Generated Alternative (LGA)

Systems Schematic, Traction Power, Train Control and Communications
Site and Access Roadways Plans
January 2020

CALIFORNIA
High-Speed Rail Authority

DRAWING NO.	REV NO.	DRAWING DESCRIPTION
		GENERAL
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 & 5956+00~~
~~TC-F4003~~		~~INTERLOCKING SITE - 5970+00~~
~~TC-F4004~~		~~INTERLOCKING SITE - 6793+00~~
~~TC-F4005-A~~		~~INTERLOCKING SITES - 6024+25 & 6024+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

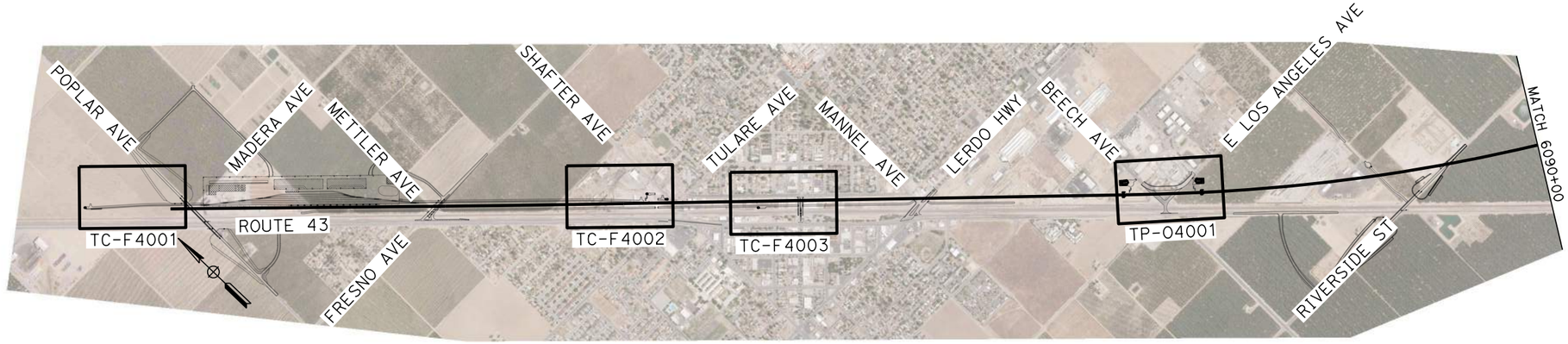
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
TRACTION POWER, COMMUNICATIONS SYSTEM,
AND AUTOMATIC TRAIN CONTROL SITE PLANS
INDEX OF DRAWINGS

CONTRACT NO. HSR13-44
DRAWING NO. TP-B0001
SCALE NO SCALE
SHEET NO.



1000 0 1000 2000
1"=1000' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

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

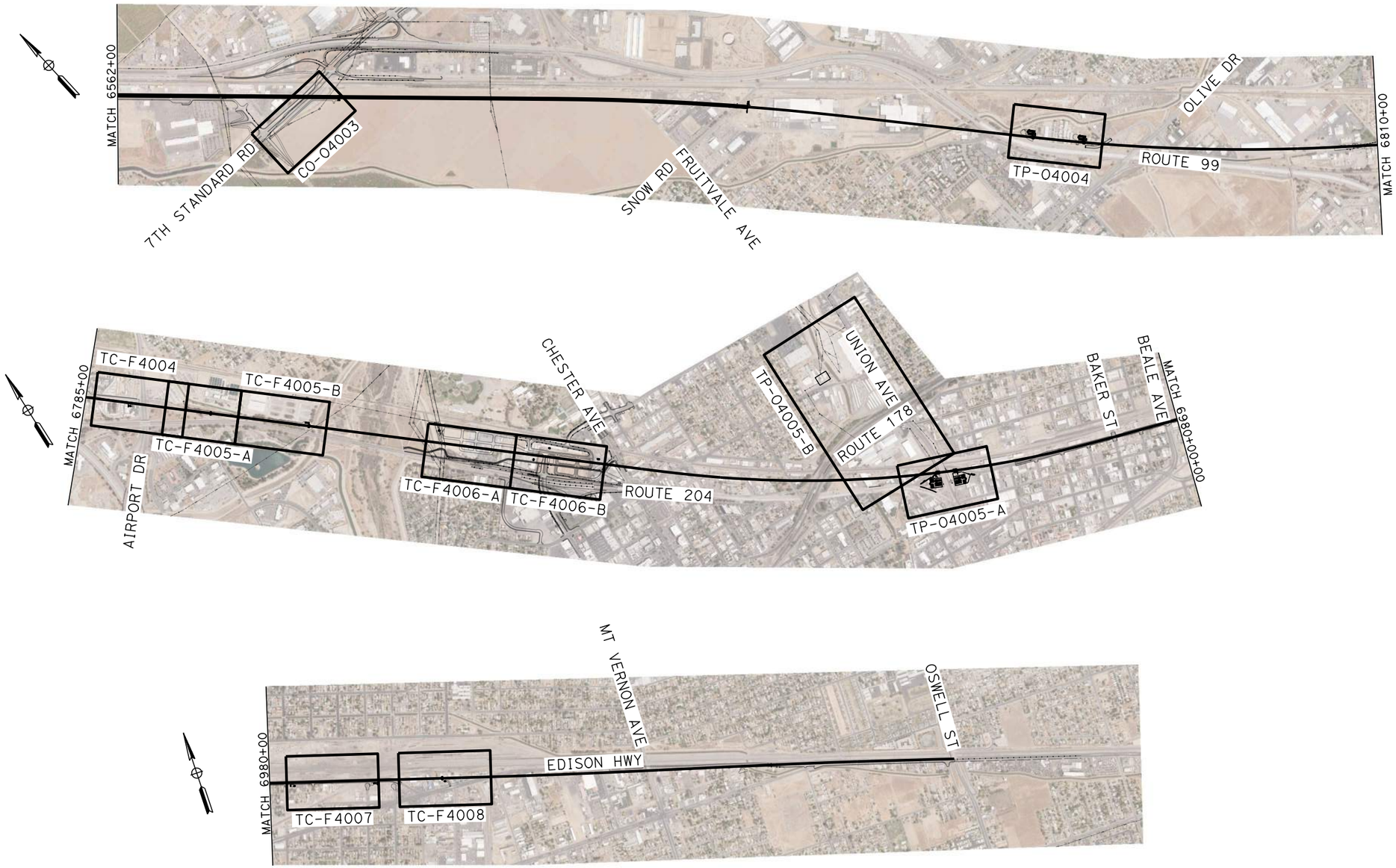
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



1000 0 1000 2000

1"=1000' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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

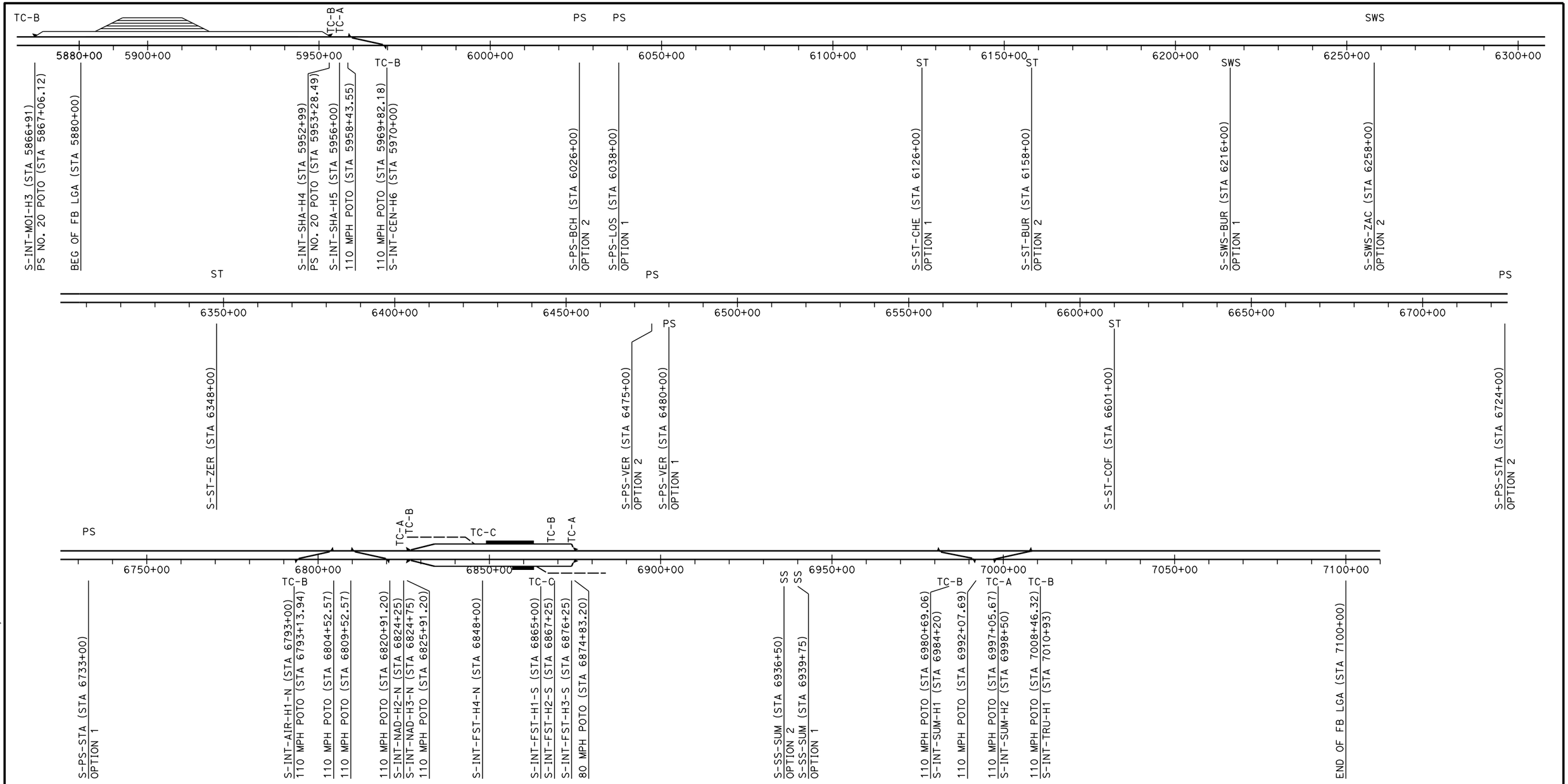
T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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-B0003
SCALE AS SHOWN
SHEET NO.



LEGEND:

FB LGA HSR TRACKS		TRACTION POWER SUBSTATION	SS
STATION TRACK ℄		STAND-ALONE RADIO SITE	ST
STORAGE TRACK ℄		STATION PLATFORM	
CROSSOVER		MOIF	
MASTER INTERLOCKING HOUSE	TC-A	PARALLELING STATION	PS
INTERLOCKING HOUSE	TC-B OR TC-C	SWITCHING STATION	SWS

1400 0 1400 2800

1"=1400' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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

T·Y LIN INTERNATIONAL

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.

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.

MATCH LINE (TP-04005-B)

PROPOSED PG&E 230 KV ELECTRIC TPSS SUPPLY LINE (OPTION 2)

PROPOSED PG&E 230 KV ELECTRIC TPSS SUPPLY LINE (OPTION 1)

(10H) E

FB LGA NB HSR ℄

FB LGA SB HSR ℄

STRAIN GANTRY

6930+00

6935+00

6940+00

6945+00

UPRR

HSR VIADUCT COLUMN (TYP)

STRAIN GANTRY

SIDEWALK

COMMERCIAL DRIVEWAY CONNECTION TO SUMNER ST

W SUMNER ST

ACCESS STAIRS

MAIN GANTRY

AR FENCE

ROUTE 204

PARKING

SIDEWALK

SUBSTATION S-SS-SUM OPTION 2 (200'X160')

UNION AVE

MAIN GANTRY

ACCESS STAIRS

AR FENCE

ACCESS GATE

SUMNER ST

COMMERCIAL DRIVEWAY CONNECTION TO SUMNER ST

AR FENCE

PARKING

SUBSTATION S-SS-SUM OPTION 1 (200'X160')

SACRAMENTO ST

22ND ST

V ST

E 21ST ST

50 0 50 100

1"=50' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

TYLIN\jtrejo 11/4/2016 7:34:50 PM $PENTBLS$ $PLTDRVS$ Projects\701206.N_BFSS\00 CADD\Sheet Files\Traction Power Sheets\BFSSA-FB-TP-04005-A.dgn

PLAN

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

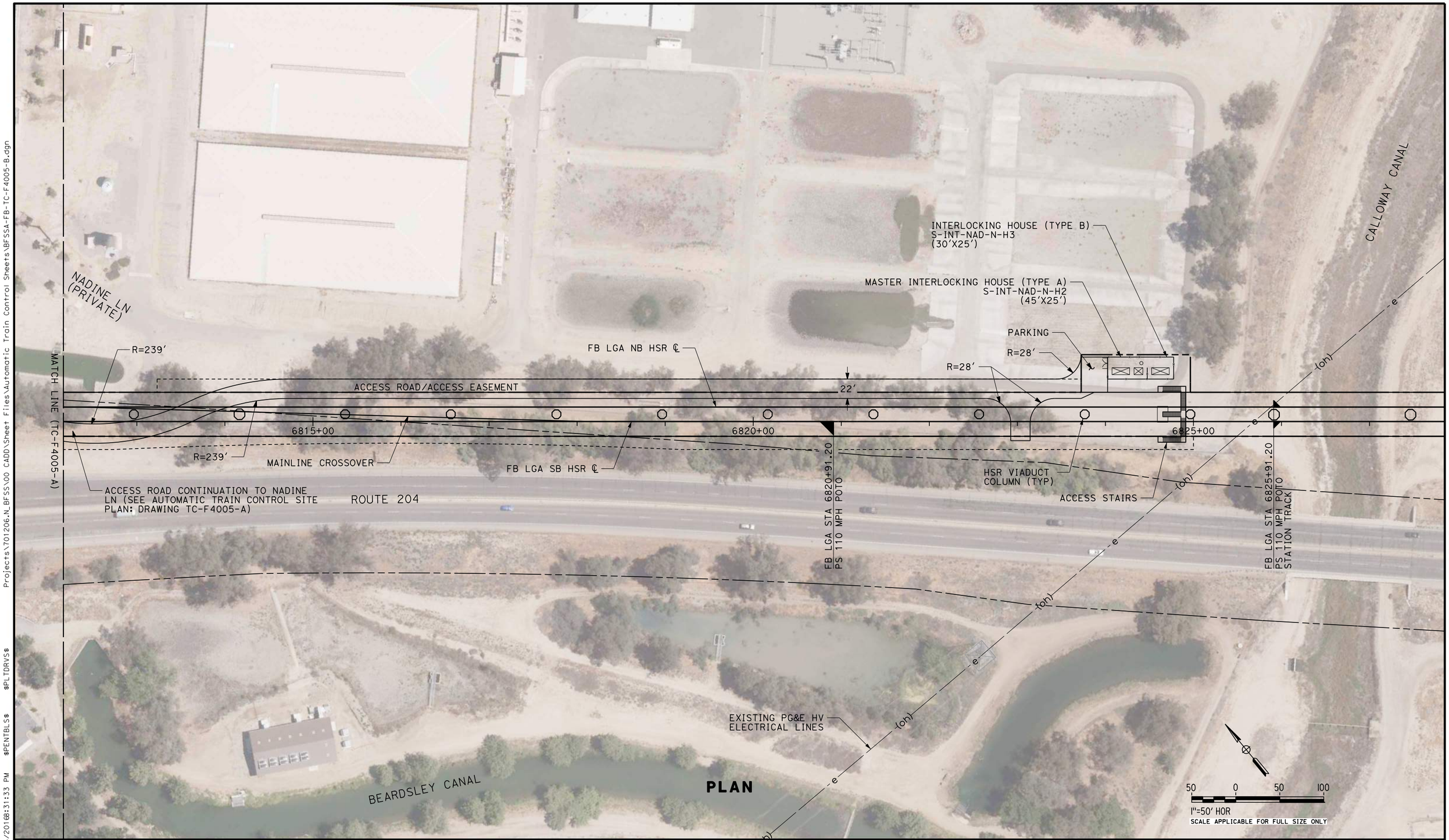
RECORD SET PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



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

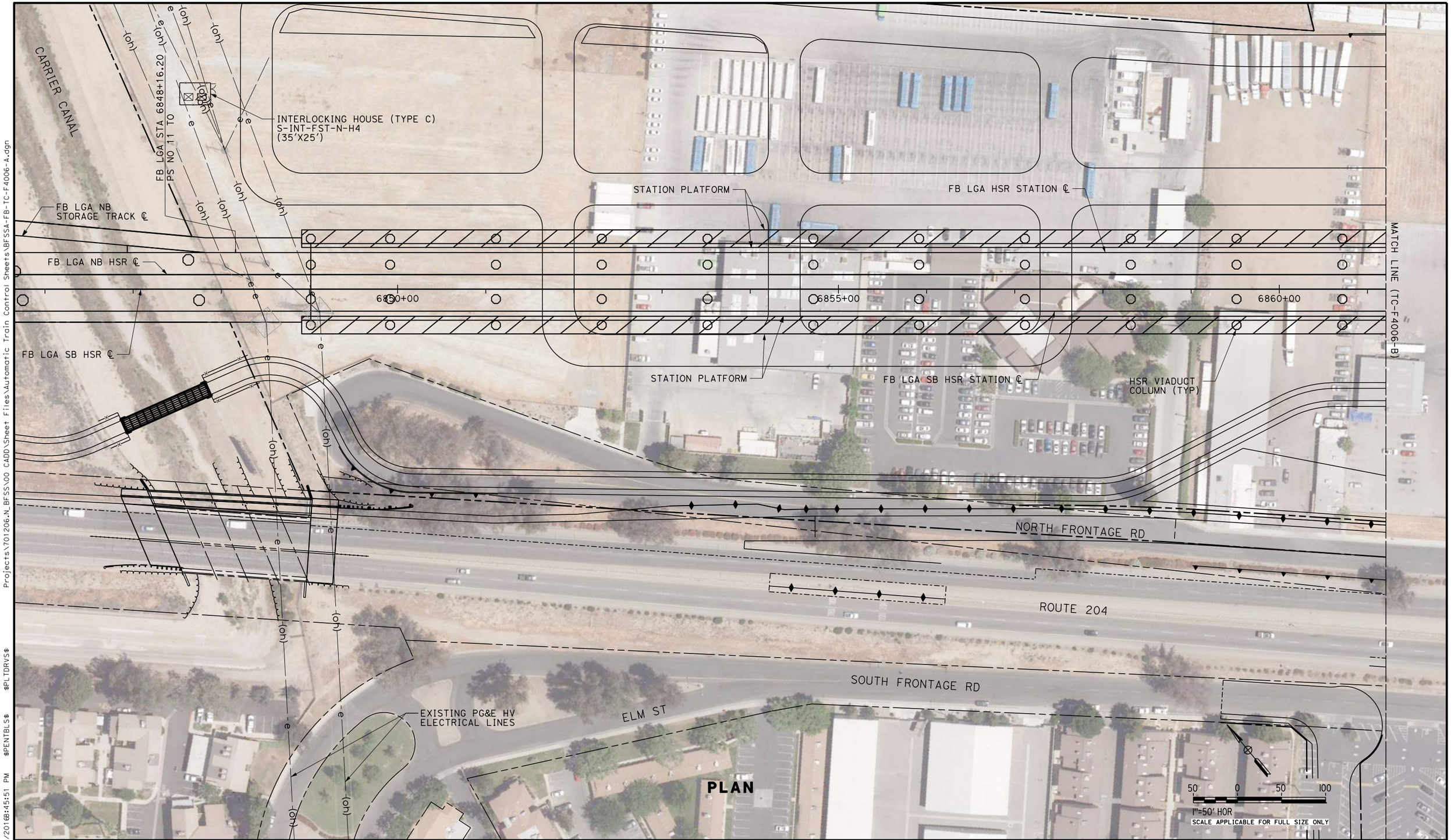
RECORD SET PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



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

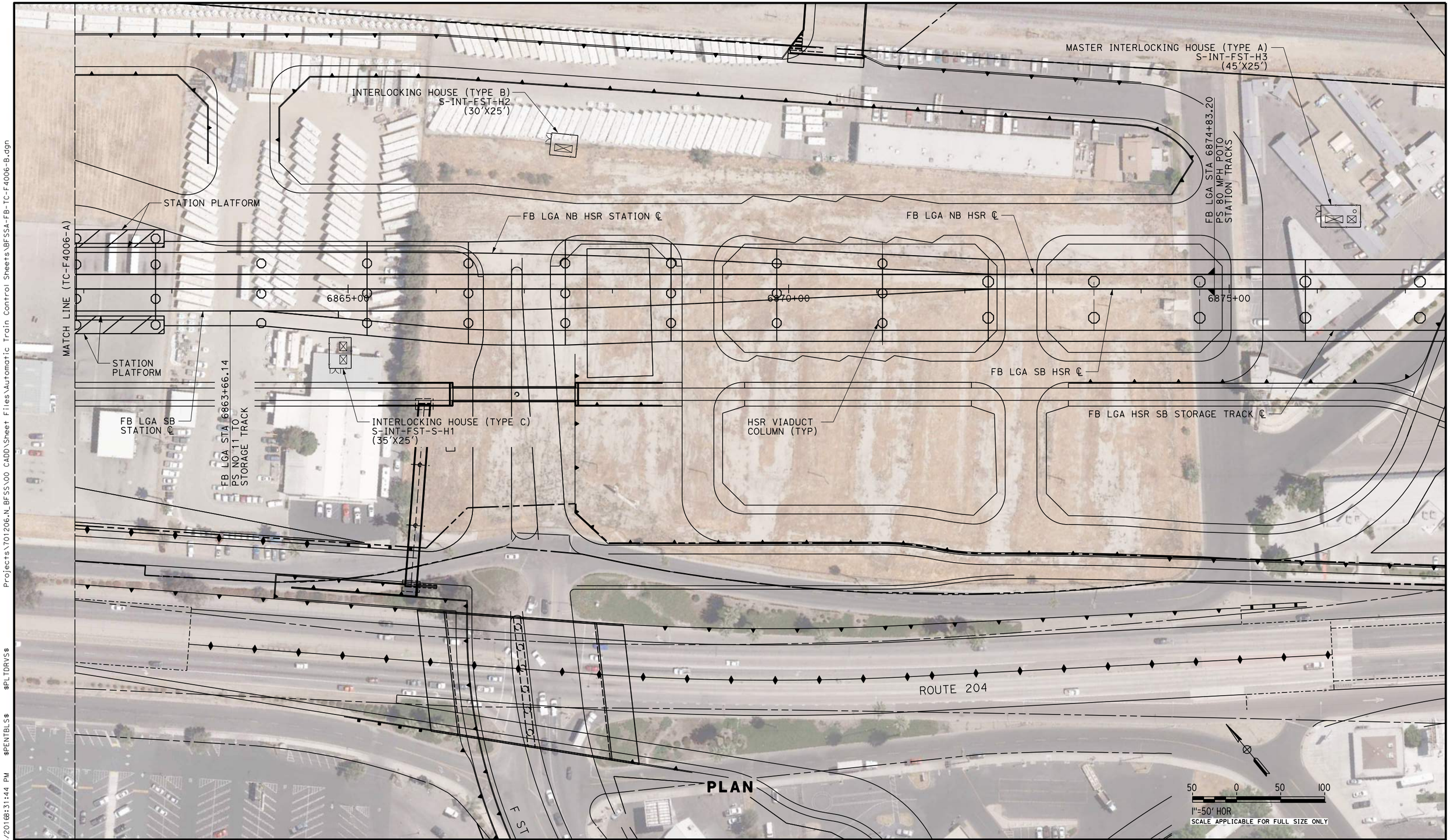
RECORD SET
PEPD DESIGN SUBMISSION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



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

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

UPRR

ACCESS STAIRS

COMMERCIAL DRIVEWAY ACCESS TO SUMNER ST

MAINLINE CROSSOVER

HSR VIADUCT COLUMN (TYP)

FB LGA NB HSR ℄

FB LGA STA 6992+07.69
110 MPH POTO

FB LGA STA 6997+07.69
110 MPH POTO

SUMNER ST

6985+00

6990+00

6995+00

FB LGA SB HSR ℄

PARKING

INTERLOCKING HOUSE (TYPE B)
S-INT-SUM-H1
(30'X25')

PROP DRAINAGE BASIN

BNSF

22'

PARKING

MASTER INTERLOCKING HOUSE (TYPE A)
S-INT-SUM-H2
(45'X25')

ACCESS STAIRS

GAGE ST

MILLER ST

21ST ST

21ST ST

PLAN

50 0 50 100
1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

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

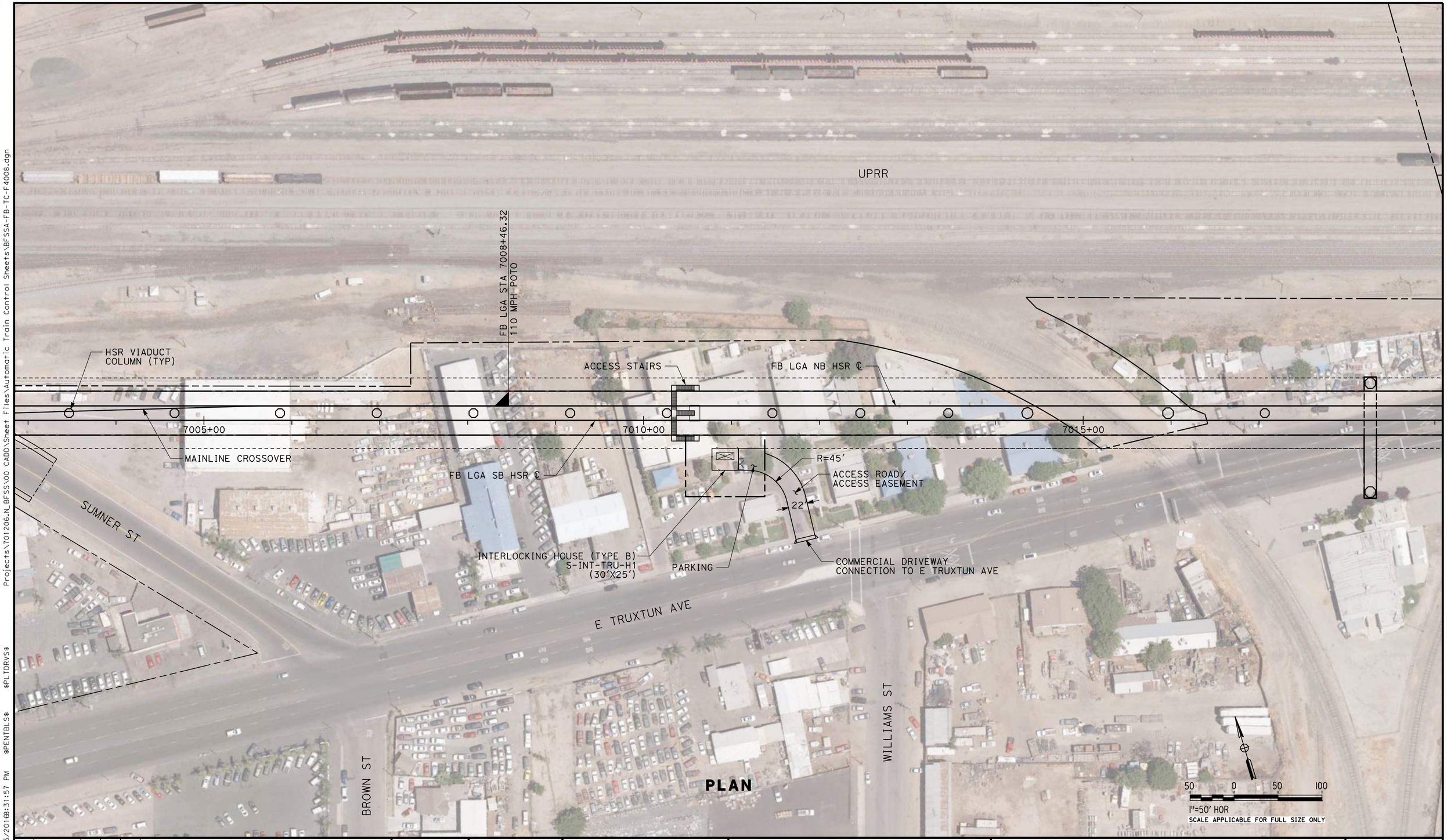
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.



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

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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.

California High-Speed Rail Authority

Fresno to Bakersfield

Coordination Set
Locally Generated Alternative (LGA)

Utility Plans
January 2020

CALIFORNIA
High-Speed Rail Authority

GENERAL AND UTILITIES

DRAWING NO.	REV NO.	DRAWING DESCRIPTION
UT-B0001		INDEX OF DRAWINGS & UTILITY OWNER ABBREVIATIONS
UT-B0002		LEGEND, SYMBOLS, ABBREVIATIONS & NOTES
UT-B0003		KEY MAP
UT-B0004		KEY MAP
UT-B0005		UTILITY CROSSING CLEARANCES AT GRADE
~~UT-C1001~~		~~COMPOSITE UTILITY PLAN STA 5882+00 TO 5890+00~~
~~UT-C1002~~		~~COMPOSITE UTILITY PLAN STA 5890+00 TO 5918+00~~
~~UT-C1003~~		~~COMPOSITE UTILITY PLAN STA 5918+00 TO 5946+00~~
~~UT-C1004~~		~~COMPOSITE UTILITY PLAN STA 5946+00 TO 5974+00~~
~~UT-C1005~~		~~COMPOSITE UTILITY PLAN STA 5974+00 TO 6002+00~~
~~UT-C1006~~		~~COMPOSITE UTILITY PLAN STA 6002+00 TO 6030+00~~
~~UT-C1007~~		~~COMPOSITE UTILITY PLAN STA 6030+00 TO 6058+00~~
~~UT-C1008~~		~~COMPOSITE UTILITY PLAN STA 6058+00 TO 6086+00~~
~~UT-C1009~~		~~COMPOSITE UTILITY PLAN STA 6086+00 TO 6114+00~~
~~UT-C1010~~		~~COMPOSITE UTILITY PLAN STA 6114+00 TO 6142+00~~
~~UT-C1011~~		~~COMPOSITE UTILITY PLAN STA 6142+00 TO 6170+00~~
~~UT-C1012~~		~~COMPOSITE UTILITY PLAN STA 6170+00 TO 6198+00~~
~~UT-C1013~~		~~COMPOSITE UTILITY PLAN STA 6198+00 TO 6226+00~~
~~UT-C1014~~		~~COMPOSITE UTILITY PLAN STA 6226+00 TO 6254+00~~
~~UT-C1015~~		~~COMPOSITE UTILITY PLAN STA 6254+00 TO 6282+00~~
~~UT-C1016~~		~~COMPOSITE UTILITY PLAN STA 6282+00 TO 6310+00~~
~~UT-C1017~~		~~COMPOSITE UTILITY PLAN STA 6310+00 TO 6338+00~~
~~UT-C1018~~		~~COMPOSITE UTILITY PLAN STA 6338+00 TO 6366+00~~
~~UT-C1019~~		~~COMPOSITE UTILITY PLAN STA 6366+00 TO 6394+00~~
~~UT-C1020~~		~~COMPOSITE UTILITY PLAN STA 6394+00 TO 6422+00~~
~~UT-C1021~~		~~COMPOSITE UTILITY PLAN STA 6422+00 TO 6450+00~~
~~UT-C1022~~		~~COMPOSITE UTILITY PLAN STA 6450+00 TO 6478+00~~
~~UT-C1023~~		~~COMPOSITE UTILITY PLAN STA 6478+00 TO 6506+00~~
~~UT-C1024~~		~~COMPOSITE UTILITY PLAN STA 6506+00 TO 6534+00~~
~~UT-C1025~~		~~COMPOSITE UTILITY PLAN STA 6534+00 TO 6562+00~~
~~UT-C1026~~		~~COMPOSITE UTILITY PLAN STA 6562+00 TO 6590+00~~
~~UT-C1027~~		~~COMPOSITE UTILITY PLAN STA 6590+00 TO 6618+00~~
~~UT-C1028~~		~~COMPOSITE UTILITY PLAN STA 6618+00 TO 6646+00~~
~~UT-C1029~~		~~COMPOSITE UTILITY PLAN STA 6646+00 TO 6674+00~~
~~UT-C1030~~		~~COMPOSITE UTILITY PLAN STA 6674+00 TO 6702+00~~
~~UT-C1031~~		~~COMPOSITE UTILITY PLAN STA 6702+00 TO 6731+00~~
~~UT-C1032~~		~~COMPOSITE UTILITY PLAN STA 6731+00 TO 6758+00~~
~~UT-C1033~~		~~COMPOSITE UTILITY PLAN STA 6758+00 TO 6786+00~~
~~UT-C1034~~		~~COMPOSITE UTILITY PLAN STA 6786+00 TO 6814+00~~
UT-C1035		COMPOSITE UTILITY PLAN STA 6814+00 TO 6842+00
UT-C1036		COMPOSITE UTILITY PLAN STA 6842+00 TO 6870+00
UT-C1037		COMPOSITE UTILITY PLAN STA 6870+00 TO 6898+00
UT-C1038		COMPOSITE UTILITY PLAN STA 6898+00 TO 6926+00
UT-C1039		COMPOSITE UTILITY PLAN STA 6926+00 TO 6954+00
UT-C1040		COMPOSITE UTILITY PLAN STA 6954+00 TO 6982+00
UT-C1041		COMPOSITE UTILITY PLAN STA 6982+00 TO 7010+00
UT-C1042		COMPOSITE UTILITY PLAN STA 7010+00 TO 7038+00
UT-C1043		COMPOSITE UTILITY PLAN STA 7038+00 TO 7066+00
UT-C1044		COMPOSITE UTILITY PLAN STA 7066+00 TO 7094+00
UT-C1045		COMPOSITE UTILITY PLAN STA 7094+00 TO 7100+00
~~UT-C1501~~		~~COMPOSITE UTILITY PLAN POPLAR AVENUE~~
~~UT-C1502~~		~~COMPOSITE UTILITY PLAN POPLAR AVENUE~~
~~UT-C1503~~		~~COMPOSITE UTILITY PLAN RIVERSIDE STREET~~
~~UT-C1504~~		~~COMPOSITE UTILITY PLAN 7TH STANDARD ROAD~~
~~UT-C1505~~		~~COMPOSITE UTILITY PLAN 7TH STANDARD ROAD~~
UT-C1506		COMPOSITE UTILITY PLAN F STREET
UT-C1507		COMPOSITE UTILITY PLAN 34TH STREET
UT-Y4505		HH&D FACILITY SCHEDULE

UTILITY OWNERS	
OWNER	ABBREVIATION
ALON BAKERSFIELD PROP	ALON
AT&T	AT&T TRANS
AT&T/PACIFIC BELL	PACBELL
BRIGHT HOUSE NETWORKS	BRIGHT HOUSE
CALIFORNIA RESOURCE CORP	CRC
CALIFORNIA WATER SERVICE	CALWATER
CALTRANS	CALTRANS
CAWELO WATER DISTRICT	CWD
CENTURYLINK COMMUNICATIONS	CENTURYLINK
CHEVRON PIPE LINE COMPANY	CHEVRON (CPL)
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY	CHEVRON (CEMC)
CITY OF SHAFTER	CITY OF SHAFTER
CITY OF BAKERSFIELD	CITY OF BAKERSFIELD
COUNTY OF KERN	COUNTY OF KERN
CVIN LLC	CVIN
FRIANT WATER AUTHORITY	FWA
KERN COUNTY WATER AGENCY	KCWA
KERN DELTA WATER DISTRICT	KDWD
KERN SANITATION AUTHORITY	KSA
LEVEL 3 COMMUNICATIONS	LEVEL3
NORTH OF RIVER SANITATION DISTRICT	NORSD
NORTH KERN WATER STORAGE DISTRICT	NKWSD
OILDALE MUTUAL WATER	OMW
PACIFIC GAS AND ELECTRIC - DISTRIBUTION	PG&E DIST
PACIFIC GAS AND ELECTRIC - TRANSMISSION	PG&E TRANS
PHILLIPS 66	PHILLIPS66
SHAFTER-WASCO IRRIGATION DISTRICT	SWID
SHELL PIPELINE COMPANY	SHELL
SOUTHERN CALIFORNIA GAS COMPANY/ SEMPRA - DISTRIBUTION	SEMPRA DIST
SOUTHERN CALIFORNIA GAS COMPANY/ SEMPRA - TRANSMISSION	SEMPRA TRANS
SPRINT	SPRINT
SUNESYS, LLC	SUNESYS
VERIZON	VERIZON

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET
PEPD DESIGN SUBMISSION

T.Y.LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
INDEX OF DRAWINGS & UTILITY OWNER ABBREVIATIONS

CONTRACT NO. HSR13-44
DRAWING NO. UT-B0001
SCALE NO SCALE
SHEET NO.

LEGEND AND SYMBOLS

EXISTING	NEW	DESCRIPTION
-e-	-E-	ELECTRICAL UNDERGROUND
-e-(OH)-	-E-(OH)-	ELECTRICAL OVERHEAD
gs	GS	GAS
g	G	NATURAL GAS
iw	IW	INDUSTRIAL WASTE
o	O	OIL
sd	SD	STORM DRAIN
s	S	SEWER
st	ST	STEAM
tc	TC	TELECOMMUNICATION OVERHEAD
tc	TC	TELECOMMUNICATION UNDERGROUND
t	T	TELEPHONE OVERHEAD
t	T	TELEPHONE UNDERGROUND
tv	TV	TELEVISION OVERHEAD
tv	TV	TELEVISION UNDERGROUND
w	W	WATER
fo	FO	FIBER OPTIC OVERHEAD
fo	FO	FIBER OPTIC
irr	IRR	IRRIGATION

IRRIGATION WELL, WEIR, TURNOUT, PUMP

SEWER, STORM DRAIN MANHOLE

UTILITY POLE

FIRE HYDRANT

DROP INLET

POWER TRANSMISSION TOWER

STREET LIGHT

NORTH ARROW

PROP CHSR RIGHT-OF-WAY

HST TRACK CENTER LINE

6280+00

RETAINING WALL

STRUCTURE FOUNDATION

PTEF

PPEF

UTILITY TO BE REMOVED OR RELOCATED

RETENTION BASIN

KEY NOTE, UTILITY NUMBER

ROADWAY EASEMENT

ABBREVIATIONS

AB	AGGREGATE BASE
ABN	ABANDON
AC	ASPHALT CONCRETE
ACB	ASPHALT CONCRETE BASE
ACP	ASBESTOS CEMENT PIPE
A/G	AT GRADE
APPROX	APPROXIMATE
AVE	AVENUE
BEG	BEGIN
BLDG	BUILDING
BLVD	BOULEVARD
BNSF	BURLINGTON NORTHERN SANTA FE
BO	BLOW-OFF
CB	CATCH BASIN
CD	CURB DRAIN
C&G	CURB AND GUTTER
CHSR	CALIFORNIA HIGH-SPEED RAIL
CHST	CALIFORNIA HIGH-SPEED TRAIN
CIP	CAST IRON PIPE
CL	CENTERLINE, CLASS
℄	CENTERLINE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CMP	CORRUGATED METAL PIPE
CTV	CABLE TELEVISION
CV	CURVE
D	DEPTH
DI	DRAINAGE INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DIST	DISTANCE
DWG	DRAWING
E	ELECTRICAL, EAST
EB	EASTBOUND
EL	ELEVATION
ELEC	ELECTRIC
EP	EDGE OF PAVEMENT
EXIST, (E)	EXISTING
FH	FIRE HYDRANT
FM	FORCE MAIN
F-B	FRESNO TO BAKERSFIELD
FO	FIBER OPTIC
FUT	FUTURE
G	GAS
GALV	GALVANIZED
GB	GRADE BREAK
GIS	GEOGRAPHICAL INFORMATION SYSTEM
GND	GROUND
GTR	GUTTER
GV	GAS VALVE
HOR	HORIZONTAL
HSR	HIGH-SPEED RAIL
HST	HIGH-SPEED TRAIN
IN	INCH
INV	INVERT
IRR	IRRIGATION
L	LENGTH
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH, NEW
NA	NOT APPLICABLE
NB	NORTHBOUND
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OCS	OVERHEAD CONTACT SYSTEM
PROP, (P)	PROPOSED
PED	PEDESTRIAN
PPEF	PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
PTEF	PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REQD	REQUIRED
RR	RAILROAD
RT	RIGHT
RTE	ROUTE
R/W, ROW	RIGHT-OF-WAY
RWY	RAILWAY
S	SOUTH
SB	SOUTHBOUND
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SF	SQUARE FEET
SHLD	SHOULDER
SR	STATE ROUTE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
ST	STREET
STA	STATION
SW	SIDEWALK
SWR	SEWER
T	TELEPHONE, TOTAL
TC	TELECOMMUNICATION
TCE	TEMPORARY CONSTRUCTION EASEMENT
TEL	TELEPHONE
TOR	TOP OF RAIL
TS	TRAFFIC SIGNAL
TYP	TPICAL
UG, U/G	UNDERGROUND
UNK	UNKNOWN
UPRR	UNION PACIFIC RAILROAD
VAR	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
W	WEST, WATER
W/	WITH
WB	WESTBOUND
WM	WATER MAIN
WV	WATER VALVE

GENERAL NOTES:

1. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION THESE PLANS. THE LOCATION OF EXISTING UTILITIES ARE BASED ON FOUR SOURCES:
   1.) TOPOGRAPHIC SURVEY
   2.) GIS
   3.) AS-BUILT DRAWINGS
   4.) LIMITED FIELD RECONNAISSANCE
   THE CONTRACTOR SHALL CONDUCT ITS OWN SURVEY AND VERIFY THE LOCATION OF EXISTING UTILITIES AND RECONCILE THE SURVEY DATA AND GIS DATA.
2. SERVICE LATERALS FOR POTABLE WATER, SANITARY SEWER AND NATURAL GAS ARE NOT SHOWN.
3. EXISTING UTILITIES IDENTIFIED WITH THE DISPOSITION 'RELOCATE' AND 'REMOVE' PERTAIN TO ONLY THAT PORTION OF THE UTILITY WITHIN THE PROPOSED CHSR ROW OR IMPACTED BY PROPOSED IMPROVEMENTS.

HIGH VOLTAGE TRANSMISSION LINE RELOCATION NOTES:

1. ELECTRICAL TOWER AND WIRE HEIGHTS ARE NOT BASED ON FIELD SURVEY AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS.
2. CPUC VERTICAL CLEARANCE FROM OCS POLE NEGATIVE FEEDER WIRE TO LOWEST HIGH VOLTAGE ELECTRICAL CONDUCTOR: CPUC GO 95 RULE 38 TABLE 2 (CASE 12).
3. ELECTRICAL TRANSMISSION TOWERS/POLES SUBJECT TO ADDITIONAL CLEARANCE REQD BY UTILITY OWNER.
4. PROPOSED HV TRANSMISSION TOWERS REPRESENTED CONCEPTUALLY.
5. NEGATIVE FEEDER WIRE DISTANCE ABOVE TOP RAIL: 30' FOR 2 TRACK CONFIGURATION, 35' FOR 3 OR MORE TRACK CONFIGURATION.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

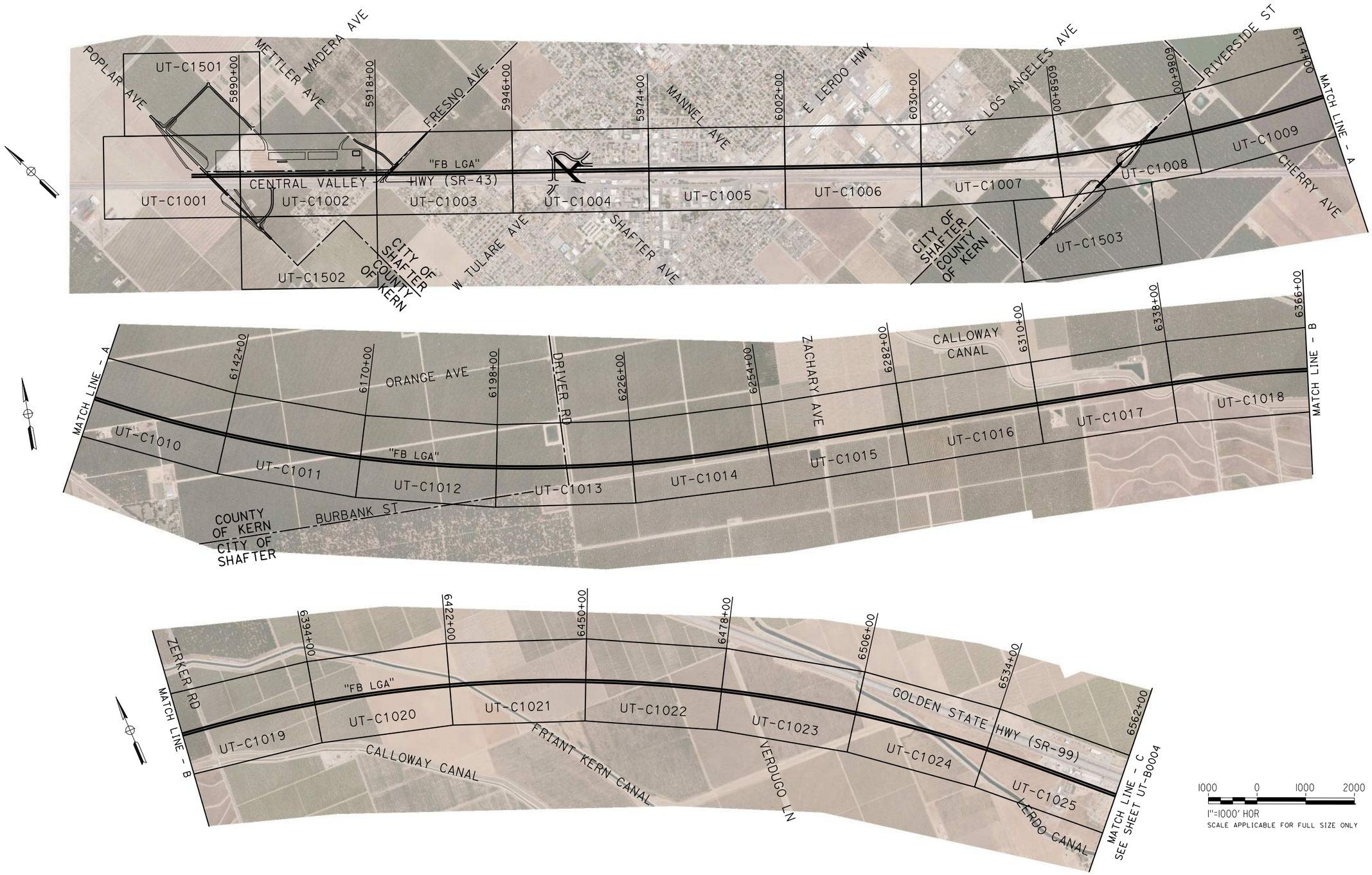
RECORD SET
PEPD DESIGN SUBMISSION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
LEGEND, SYMBOLS, ABBREVIATIONS & NOTES

CONTRACT NO. HSR13-44
DRAWING NO. UT-B0002
SCALE NO SCALE
SHEET NO.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

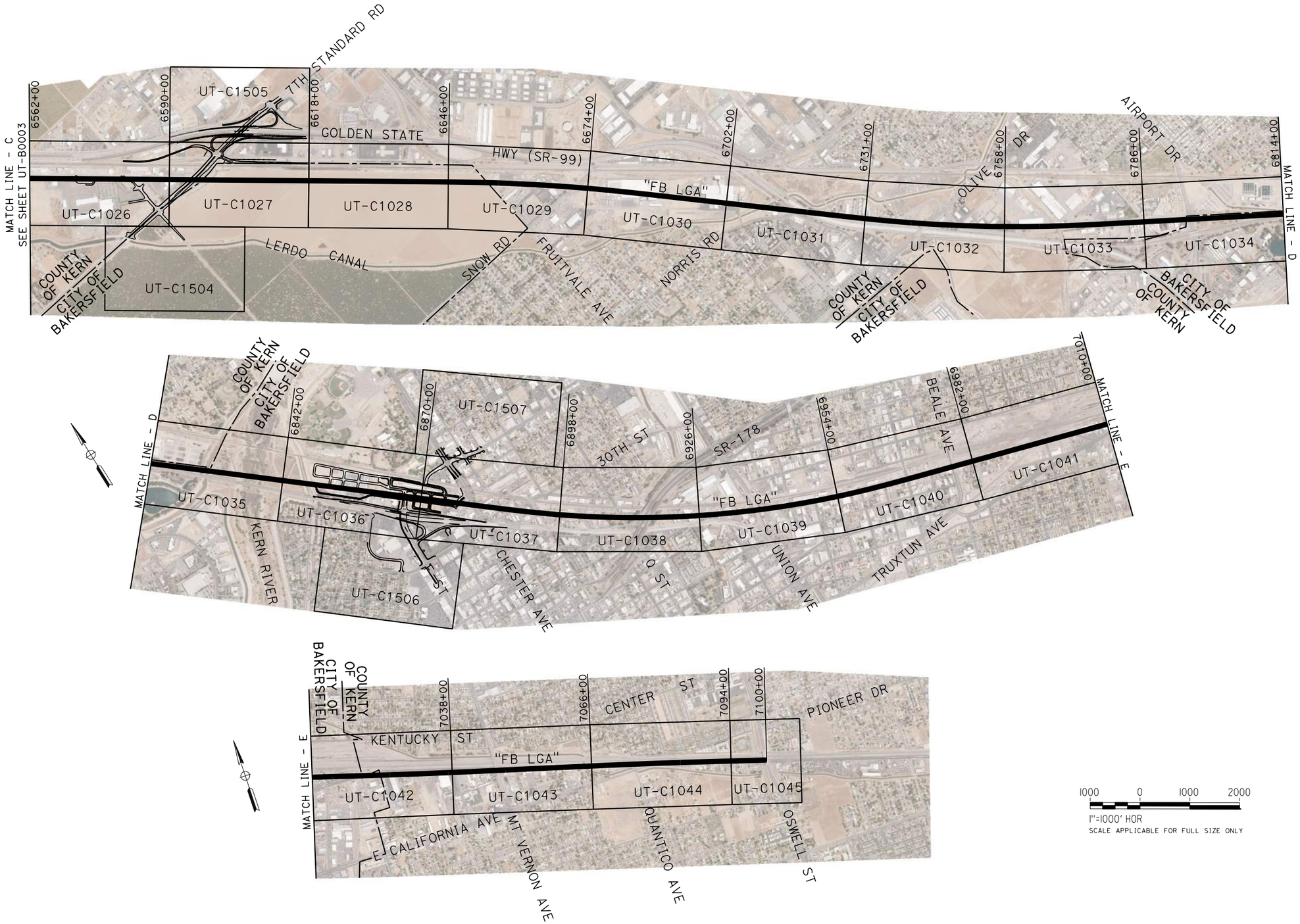
RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
KEY MAP (SHEET 1 OF 2)

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



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

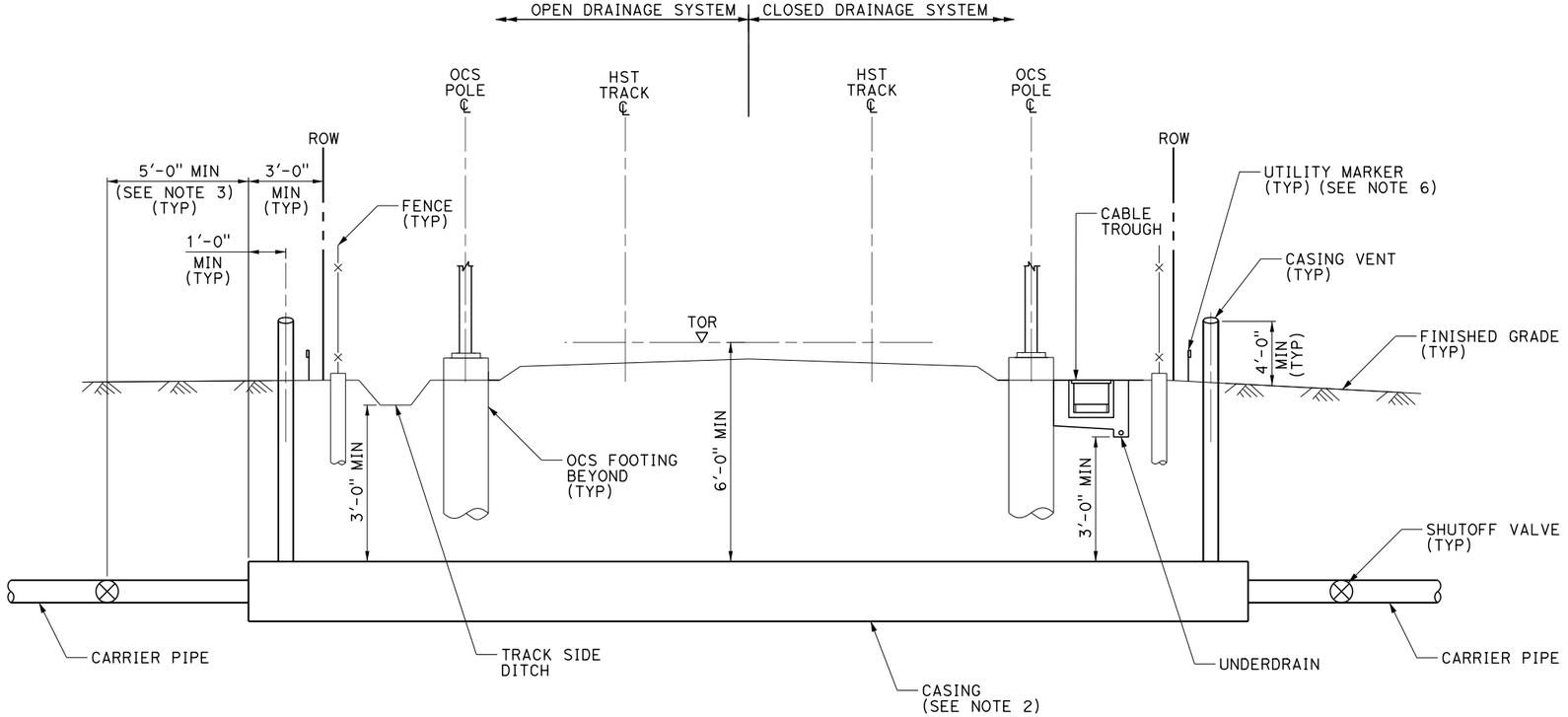
RECORD SET
PEPD DESIGN
SUBMISSION

T-Y-LIN INTERNATIONAL

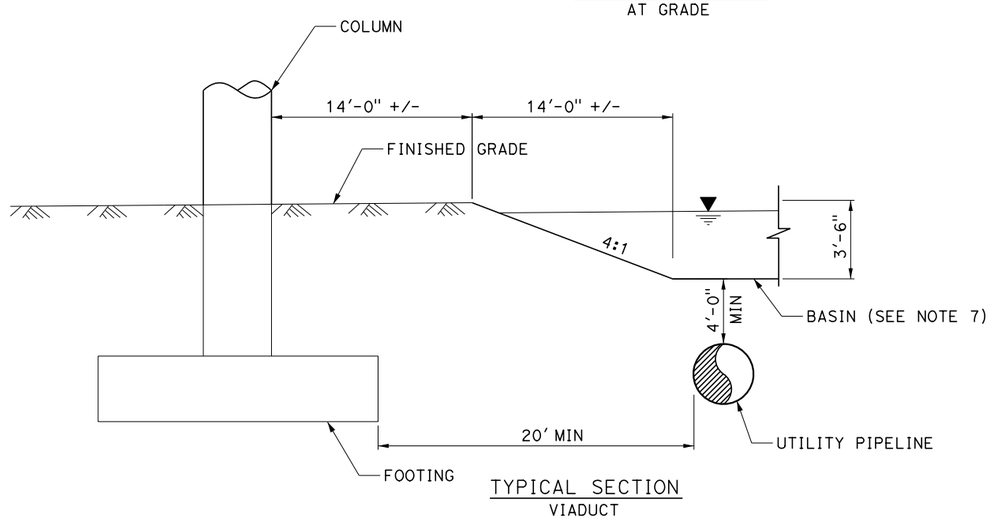
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
KEY MAP (SHEET 2 OF 2)

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



TYPICAL SECTION
AT GRADE



TYPICAL SECTION
VIADUCT

NOTES:

1. TRACK, SYSTEMS, DRAINAGE, AND STRUCTURES ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. FOR ADDITIONAL PIPE CASING REQUIREMENTS, SEE AREMA MANUAL.
3. SHUTOFF VALVE MUST BE ACCESSIBLE FROM OUTSIDE THE RIGHT-OF-WAY. IT MAY NOT BE NEEDED ON BOTH SIDES.
4. THE CASING SHALL CONTINUE MINIMUM 3'-0" BEYOND THE RIGHT-OF-WAY.
5. TRANSVERSE UTILITIES SHALL BE LOCATED AWAY FROM MANHOLES, OCS FOOTINGS, AND OTHER HST SUBSURFACE ELEMENTS.
6. UTILITY MARKER TO INDICATE LOCATION OF UTILITY CROSSING AT RIGHT-OF-WAY.
7. INFILTRATION BASIN WHERE SHOWN ON THE PLANS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION

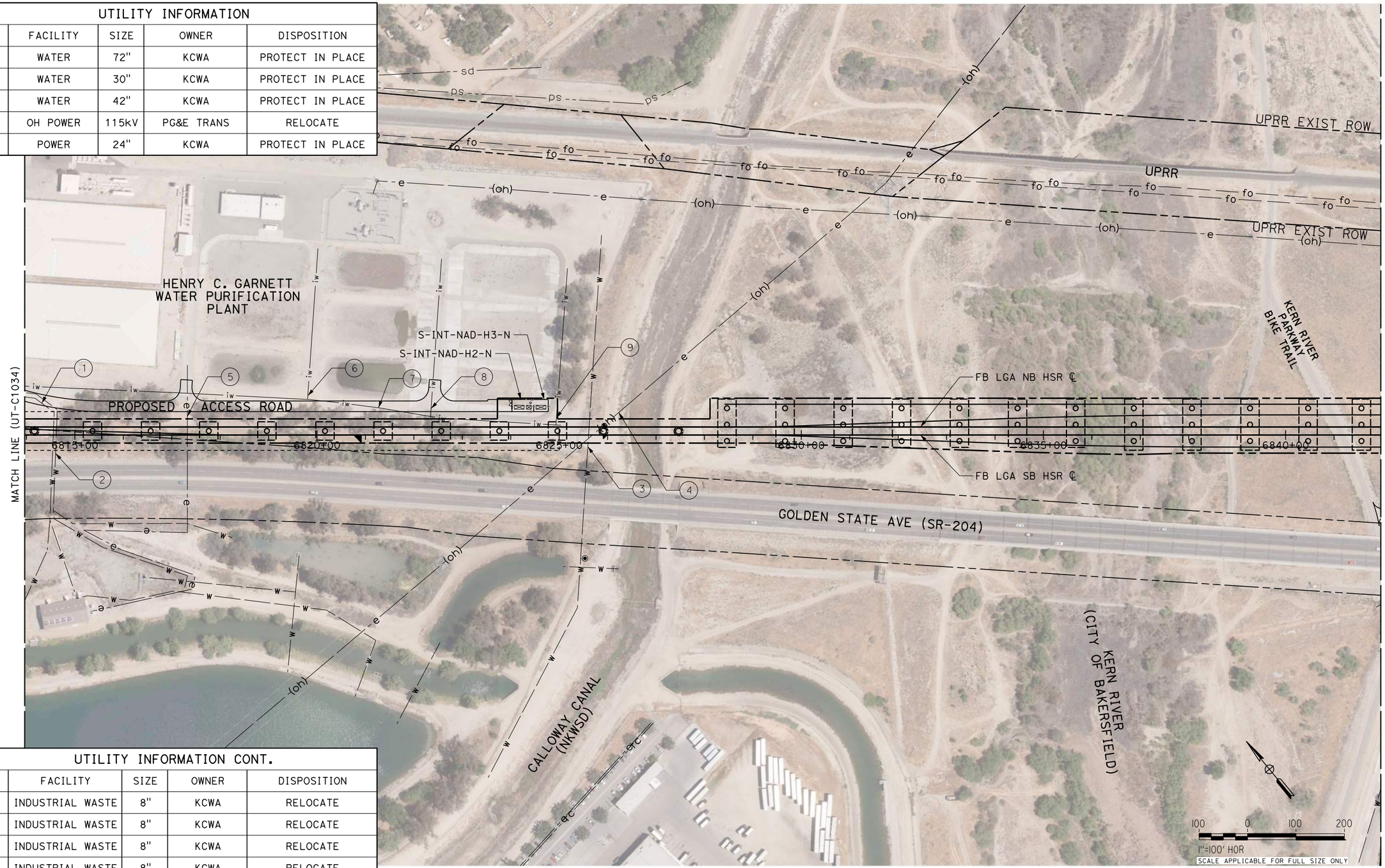
T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
UTILITY CROSSING CLEARANCES

CONTRACT NO. HSR13-44
DRAWING NO. UT-B0005
SCALE NO SCALE
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	72"	KCWA	PROTECT IN PLACE
2	WATER	30"	KCWA	PROTECT IN PLACE
3	WATER	42"	KCWA	PROTECT IN PLACE
4	OH POWER	115kV	PG&E TRANS	RELOCATE
5	POWER	24"	KCWA	PROTECT IN PLACE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
6	INDUSTRIAL WASTE	8"	KCWA	RELOCATE
7	INDUSTRIAL WASTE	8"	KCWA	RELOCATE
8	INDUSTRIAL WASTE	8"	KCWA	RELOCATE
9	INDUSTRIAL WASTE	8"	KCWA	RELOCATE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

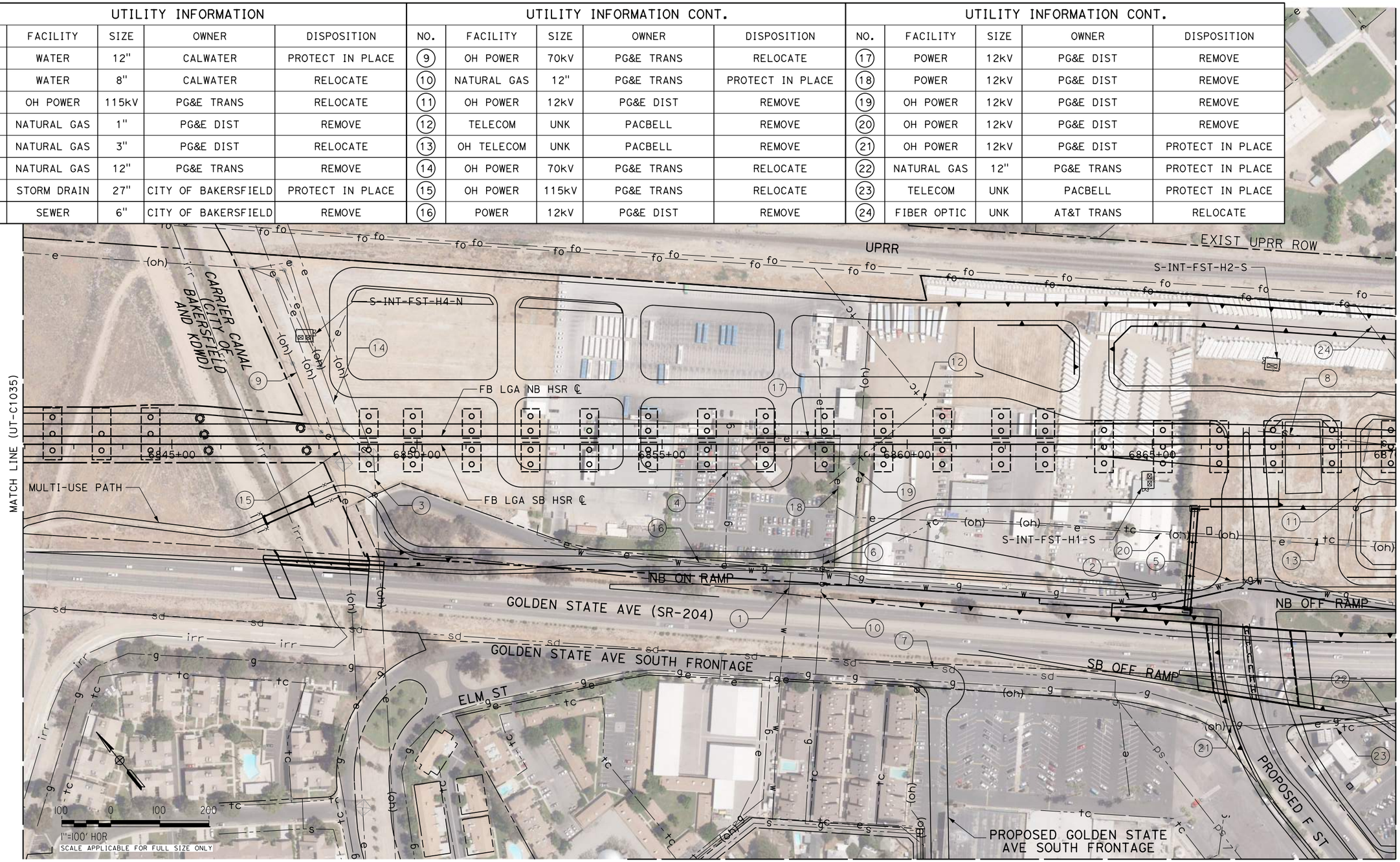
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6814+00 TO 6842+00

CONTRACT NO. HSR13-44
DRAWING NO. UT-C1035
SCALE AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	12"	CALWATER	PROTECT IN PLACE
2	WATER	8"	CALWATER	RELOCATE
3	OH POWER	115kV	PG&E TRANS	RELOCATE
4	NATURAL GAS	1"	PG&E DIST	REMOVE
5	NATURAL GAS	3"	PG&E DIST	RELOCATE
6	NATURAL GAS	12"	PG&E TRANS	REMOVE
7	STORM DRAIN	27"	CITY OF BAKERSFIELD	PROTECT IN PLACE
8	SEWER	6"	CITY OF BAKERSFIELD	REMOVE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
9	OH POWER	70kV	PG&E TRANS	RELOCATE
10	NATURAL GAS	12"	PG&E TRANS	PROTECT IN PLACE
11	OH POWER	12kV	PG&E DIST	REMOVE
12	TELECOM	UNK	PACBELL	REMOVE
13	OH TELECOM	UNK	PACBELL	REMOVE
14	OH POWER	70kV	PG&E TRANS	RELOCATE
15	OH POWER	115kV	PG&E TRANS	RELOCATE
16	POWER	12kV	PG&E DIST	REMOVE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
17	POWER	12kV	PG&E DIST	REMOVE
18	POWER	12kV	PG&E DIST	REMOVE
19	OH POWER	12kV	PG&E DIST	REMOVE
20	OH POWER	12kV	PG&E DIST	REMOVE
21	OH POWER	12kV	PG&E DIST	PROTECT IN PLACE
22	NATURAL GAS	12"	PG&E TRANS	PROTECT IN PLACE
23	TELECOM	UNK	PACBELL	PROTECT IN PLACE
24	FIBER OPTIC	UNK	AT&T TRANS	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET
PEPD DESIGN SUBMISSION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6842+00 TO 6870+00

CONTRACT NO. HSR13-44
DRAWING NO. UT-C1036
SCALE AS SHOWN
SHEET NO.

UTILITY INFORMATION					UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION	NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	8"	CALWATER	RELOCATE	9	SEWER	6"	CITY OF BAKERSFIELD	REMOVE
2	WATER	4"	CALWATER	REMOVE	10	OH POWER	12kV	PG&E DIST	REMOVE
3	WATER	6"	CALWATER	PROTECT IN PLACE	11	OH TELECOM	UNK	PACBELL	REMOVE
4	WATER	12"	CALWATER	PROTECT IN PLACE	12	SEWER	8"	CITY OF BAKERSFIELD	RELOCATE
5	WATER	3"	CALWATER	RELOCATE	13	SEWER	10"	CITY OF BAKERSFIELD	PROTECT IN PLACE
6	TELECOM	UNK	VERIZON	PROTECT IN PLACE	14	SEWER	12"	CITY OF BAKERSFIELD	RELOCATE
7	STORM DRAIN	36"	CITY OF BAKERSFIELD	RELOCATE	15	SEWER	4"	CITY OF BAKERSFIELD	PROTECT IN PLACE
8	FIBER OPTIC	UNK	AT&T TRANS	RELOCATE	16	NATURAL GAS	12"	PG&E TRANS	RELOCATE

MATCH LINE (UT-C1507)

MATCH LINE (UT-C1036)

MATCH LINE (UT-C1038)

MATCH LINE (UT-C1506)

PROPOSED 34TH ST

CHESTER AVE

K ST

UPRR EXIST ROW

S-INT-FST-H3-S

BAKERSFIELD F STREET STATION

FB LGA NB HSR ℄

FB LGA SB HSR ℄

30TH ST

M ST

PROPOSED 32ND ST

GOLDEN STATE AVE (SR-204)

SB OFF RAMP

SB ON RAMP

H ST

29TH ST

6875+00

6880+00

6890+00

6898+00

1"=100' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
17	FIBER OPTIC	UNK	LEVEL 3	RELOCATE
18	WATER	8"	CALWATER	RELOCATE
19	WATER	4"	CALWATER	PROTECT IN PLACE
20	NATURAL GAS	2"	PG&E DIST	RELOCATE
21	NATURAL GAS	3"	PG&E DIST	RELOCATE
22	NATURAL GAS	4"	PG&E DIST	RELOCATE
23	NATURAL GAS	10"	PG&E DIST	PROTECT IN PLACE

NOTE: FOR CONTINUATION OF UTILITY INFORMATION SEE DWG UT-C1506.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

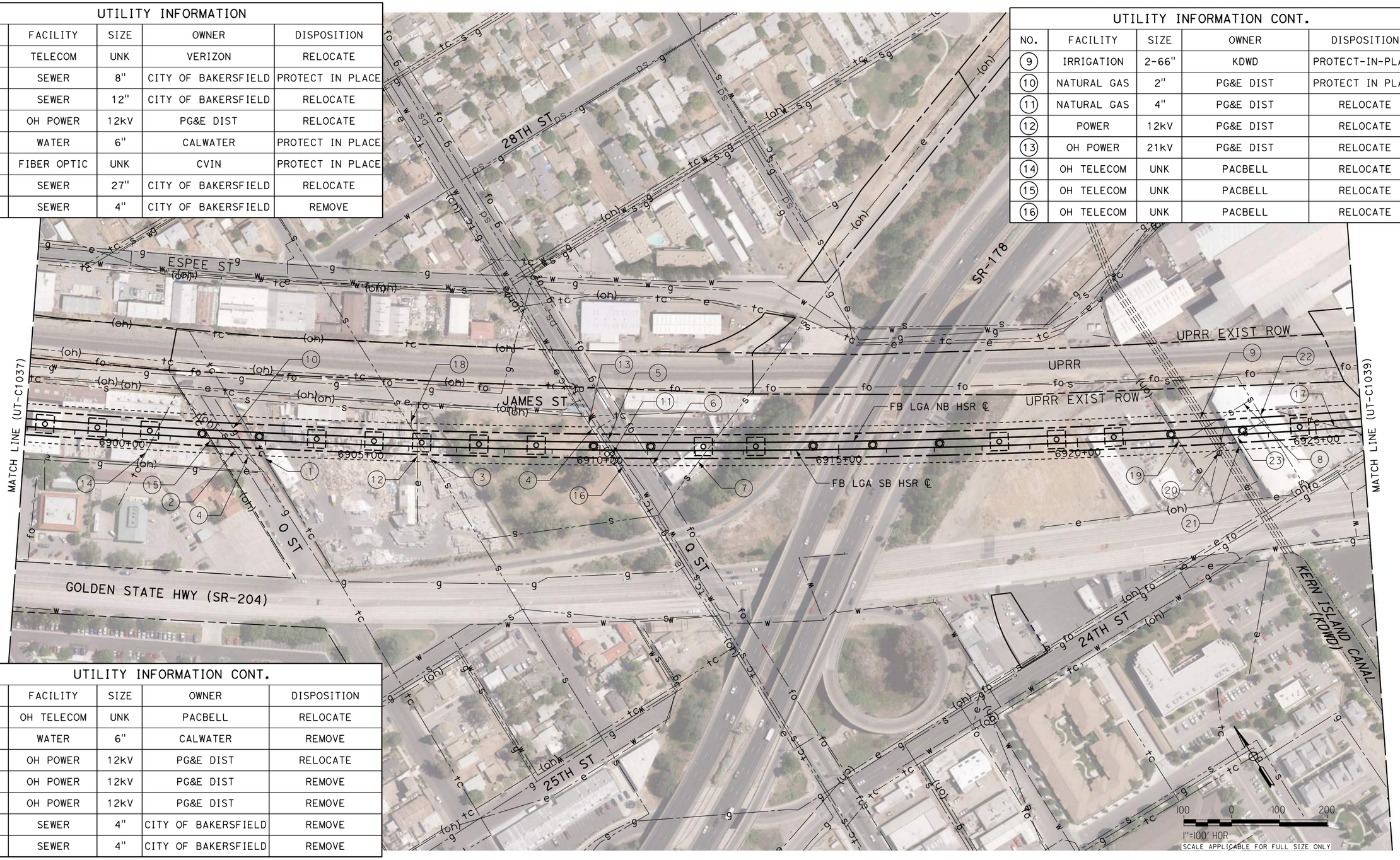
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6870+00 TO 6898+00

CONTRACT NO. HSR13-44
DRAWING NO. UT-C1037
SCALE AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	TELECOM	UNK	VERIZON	RELOCATE
2	SEWER	8"	CITY OF BAKERSFIELD	PROTECT IN PLACE
3	SEWER	12"	CITY OF BAKERSFIELD	RELOCATE
4	OH POWER	12kV	PG&E DIST	RELOCATE
5	WATER	6"	CALWATER	PROTECT IN PLACE
6	FIBER OPTIC	UNK	CVIN	PROTECT IN PLACE
7	SEWER	27"	CITY OF BAKERSFIELD	RELOCATE
8	SEWER	4"	CITY OF BAKERSFIELD	REMOVE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
9	IRRIGATION	2-66"	KDWD	PROTECT-IN-PLACE
10	NATURAL GAS	2"	PG&E DIST	PROTECT IN PLACE
11	NATURAL GAS	4"	PG&E DIST	RELOCATE
12	POWER	12kV	PG&E DIST	RELOCATE
13	OH POWER	21kV	PG&E DIST	RELOCATE
14	OH TELECOM	UNK	PACBELL	RELOCATE
15	OH TELECOM	UNK	PACBELL	RELOCATE
16	OH TELECOM	UNK	PACBELL	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
17	OH TELECOM	UNK	PACBELL	RELOCATE
18	WATER	6"	CALWATER	REMOVE
19	OH POWER	12kV	PG&E DIST	RELOCATE
20	OH POWER	12kV	PG&E DIST	REMOVE
21	OH POWER	12kV	PG&E DIST	REMOVE
22	SEWER	4"	CITY OF BAKERSFIELD	REMOVE
23	SEWER	4"	CITY OF BAKERSFIELD	REMOVE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET
PEPD DESIGN SUBMISSION

T-Y-LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

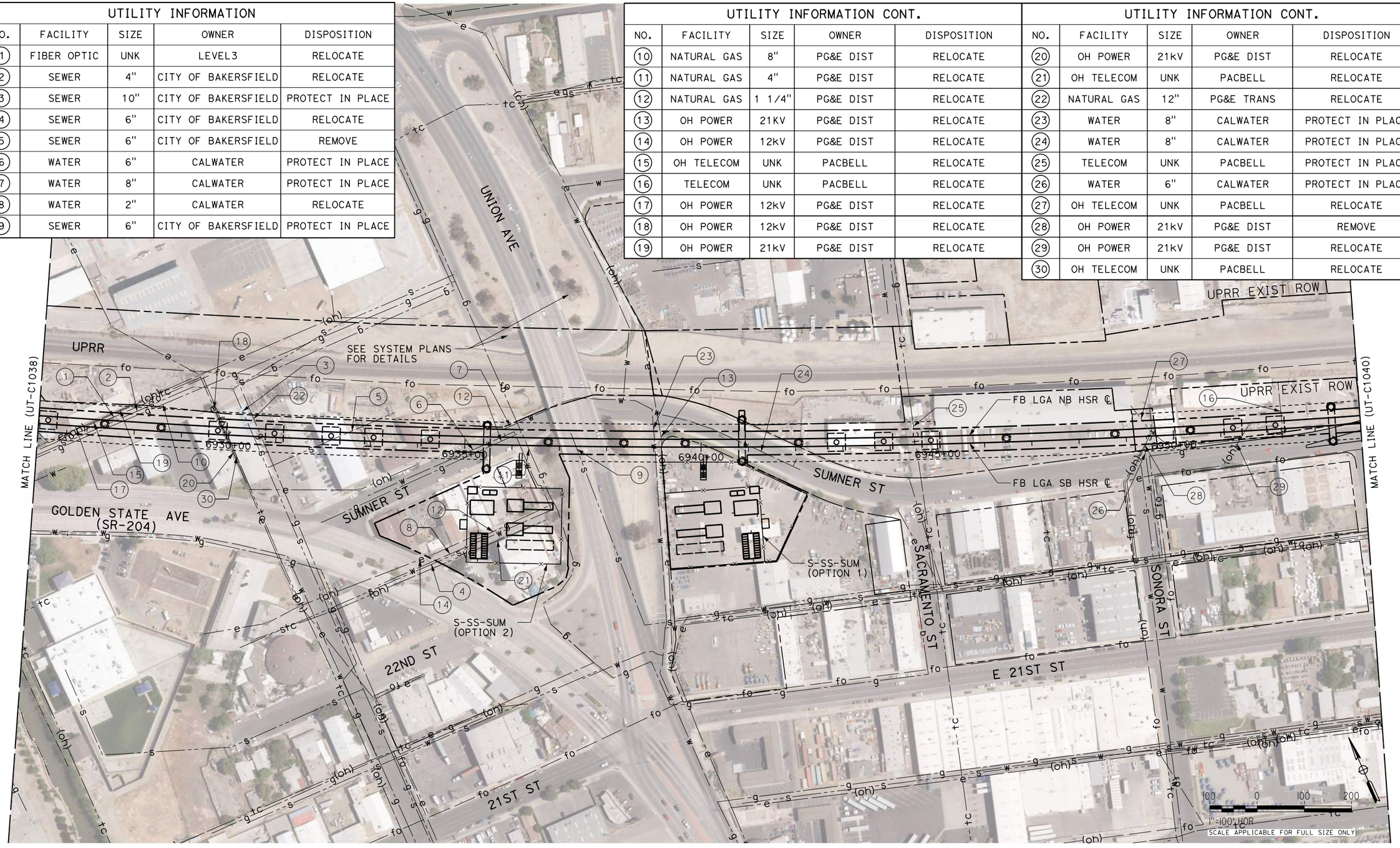
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6898+00 TO 6926+00

CONTRACT NO. HSR13-44
DRAWING NO. UT-C1038
SCALE AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	UNK	LEVEL3	RELOCATE
2	SEWER	4"	CITY OF BAKERSFIELD	RELOCATE
3	SEWER	10"	CITY OF BAKERSFIELD	PROTECT IN PLACE
4	SEWER	6"	CITY OF BAKERSFIELD	RELOCATE
5	SEWER	6"	CITY OF BAKERSFIELD	REMOVE
6	WATER	6"	CALWATER	PROTECT IN PLACE
7	WATER	8"	CALWATER	PROTECT IN PLACE
8	WATER	2"	CALWATER	RELOCATE
9	SEWER	6"	CITY OF BAKERSFIELD	PROTECT IN PLACE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
10	NATURAL GAS	8"	PG&E DIST	RELOCATE
11	NATURAL GAS	4"	PG&E DIST	RELOCATE
12	NATURAL GAS	1 1/4"	PG&E DIST	RELOCATE
13	OH POWER	21kV	PG&E DIST	RELOCATE
14	OH POWER	12kV	PG&E DIST	RELOCATE
15	OH TELECOM	UNK	PACBELL	RELOCATE
16	TELECOM	UNK	PACBELL	RELOCATE
17	OH POWER	12kV	PG&E DIST	RELOCATE
18	OH POWER	12kV	PG&E DIST	RELOCATE
19	OH POWER	21kV	PG&E DIST	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
20	OH POWER	21kV	PG&E DIST	RELOCATE
21	OH TELECOM	UNK	PACBELL	RELOCATE
22	NATURAL GAS	12"	PG&E TRANS	RELOCATE
23	WATER	8"	CALWATER	PROTECT IN PLACE
24	WATER	8"	CALWATER	PROTECT IN PLACE
25	TELECOM	UNK	PACBELL	PROTECT IN PLACE
26	WATER	6"	CALWATER	PROTECT IN PLACE
27	OH TELECOM	UNK	PACBELL	RELOCATE
28	OH POWER	21kV	PG&E DIST	REMOVE
29	OH POWER	21kV	PG&E DIST	RELOCATE
30	OH TELECOM	UNK	PACBELL	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION

T-Y-LIN INTERNATIONAL

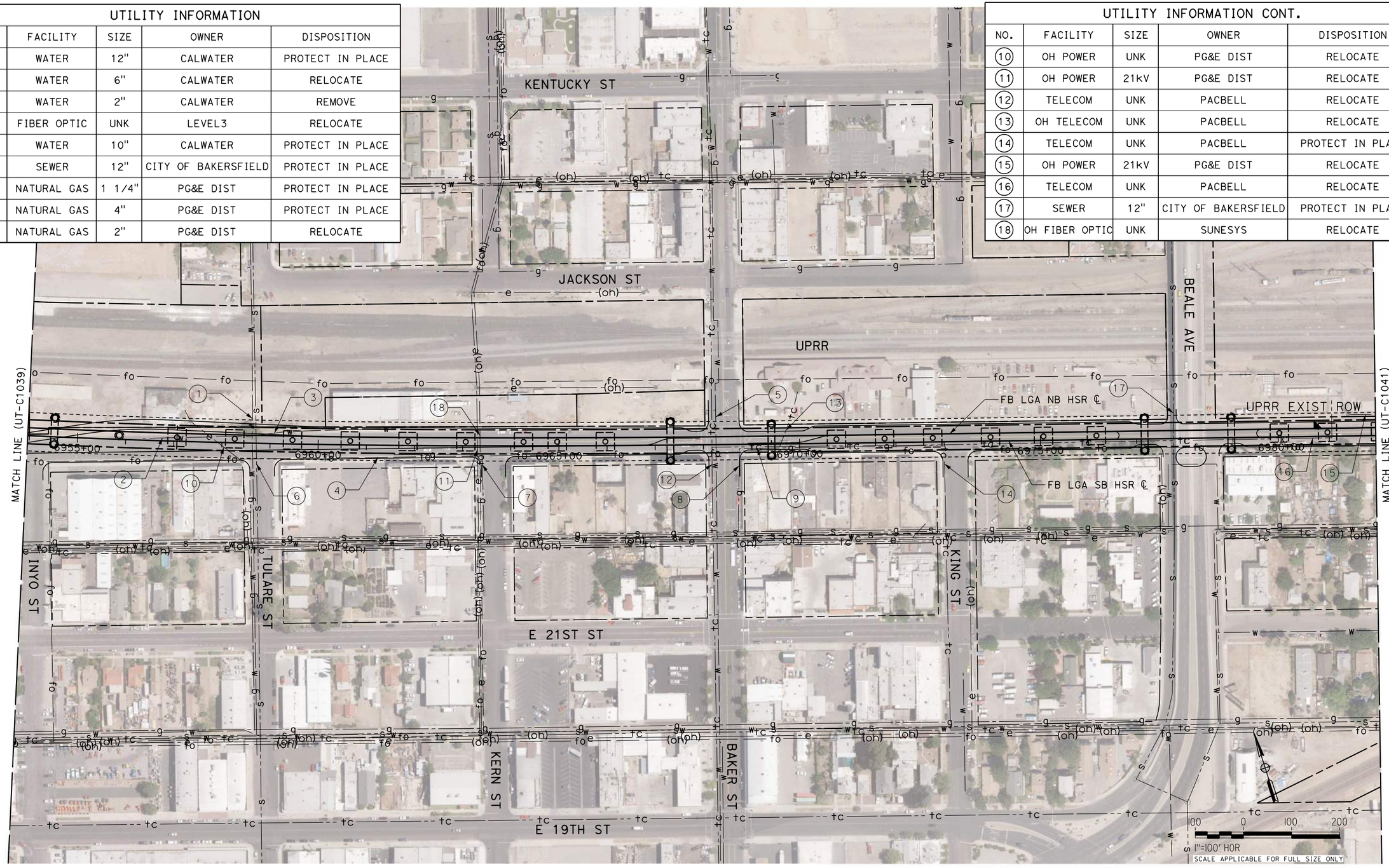
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6926+00 TO 6954+00

CONTRACT NO. HSR13-44
DRAWING NO. UT-C1039
SCALE AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	12"	CALWATER	PROTECT IN PLACE
2	WATER	6"	CALWATER	RELOCATE
3	WATER	2"	CALWATER	REMOVE
4	FIBER OPTIC	UNK	LEVEL3	RELOCATE
5	WATER	10"	CALWATER	PROTECT IN PLACE
6	SEWER	12"	CITY OF BAKERSFIELD	PROTECT IN PLACE
7	NATURAL GAS	1 1/4"	PG&E DIST	PROTECT IN PLACE
8	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE
9	NATURAL GAS	2"	PG&E DIST	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
10	OH POWER	UNK	PG&E DIST	RELOCATE
11	OH POWER	21kV	PG&E DIST	RELOCATE
12	TELECOM	UNK	PACBELL	RELOCATE
13	OH TELECOM	UNK	PACBELL	RELOCATE
14	TELECOM	UNK	PACBELL	PROTECT IN PLACE
15	OH POWER	21kV	PG&E DIST	RELOCATE
16	TELECOM	UNK	PACBELL	RELOCATE
17	SEWER	12"	CITY OF BAKERSFIELD	PROTECT IN PLACE
18	OH FIBER OPTIC	UNK	SUNESYS	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION

T-Y-LIN INTERNATIONAL

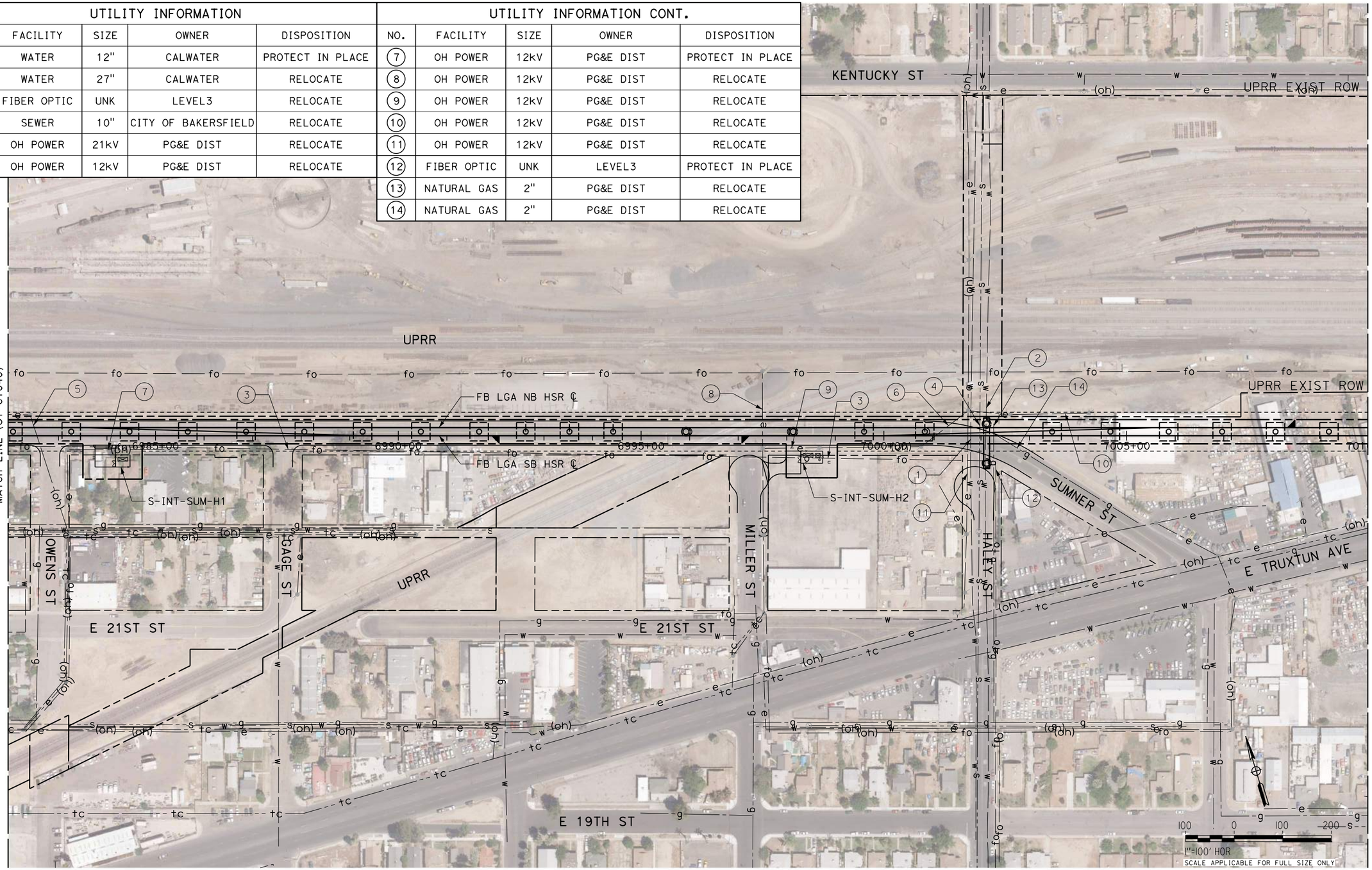
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6954+00 TO 6982+00

CONTRACT NO. HSR13-44
DRAWING NO. UT-C1040
SCALE AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	12"	CALWATER	PROTECT IN PLACE
2	WATER	27"	CALWATER	RELOCATE
3	FIBER OPTIC	UNK	LEVEL3	RELOCATE
4	SEWER	10"	CITY OF BAKERSFIELD	RELOCATE
5	OH POWER	21kV	PG&E DIST	RELOCATE
6	OH POWER	12kV	PG&E DIST	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
7	OH POWER	12kV	PG&E DIST	PROTECT IN PLACE
8	OH POWER	12kV	PG&E DIST	RELOCATE
9	OH POWER	12kV	PG&E DIST	RELOCATE
10	OH POWER	12kV	PG&E DIST	RELOCATE
11	OH POWER	12kV	PG&E DIST	RELOCATE
12	FIBER OPTIC	UNK	LEVEL3	PROTECT IN PLACE
13	NATURAL GAS	2"	PG&E DIST	RELOCATE
14	NATURAL GAS	2"	PG&E DIST	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

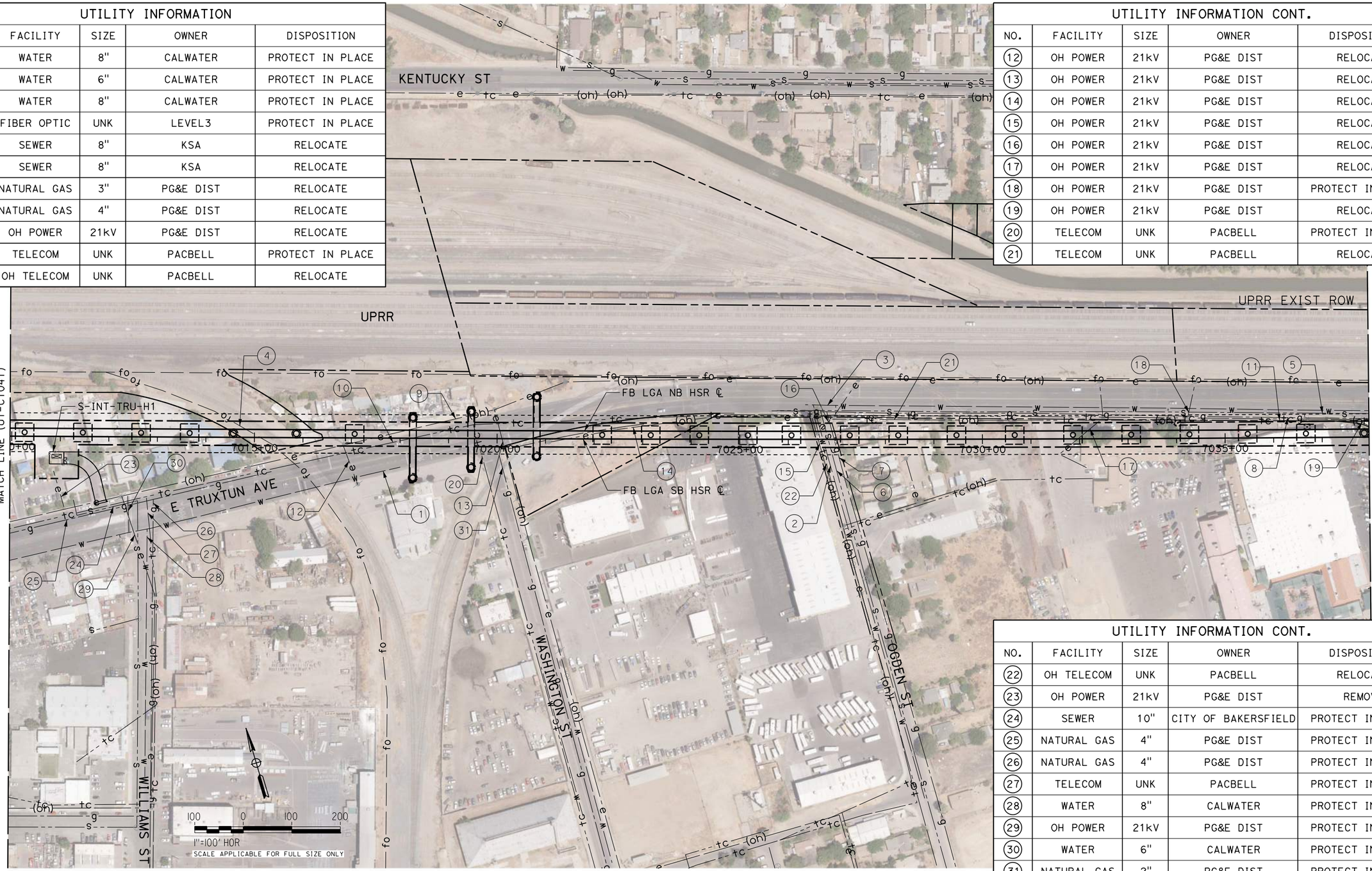
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6982+00 TO 7010+00

CONTRACT NO. HSR13-44
DRAWING NO. UT-C1041
SCALE AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	8"	CALWATER	PROTECT IN PLACE
2	WATER	6"	CALWATER	PROTECT IN PLACE
3	WATER	8"	CALWATER	PROTECT IN PLACE
4	FIBER OPTIC	UNK	LEVEL3	PROTECT IN PLACE
5	SEWER	8"	KSA	RELOCATE
6	SEWER	8"	KSA	RELOCATE
7	NATURAL GAS	3"	PG&E DIST	RELOCATE
8	NATURAL GAS	4"	PG&E DIST	RELOCATE
9	OH POWER	21kV	PG&E DIST	RELOCATE
10	TELECOM	UNK	PACBELL	PROTECT IN PLACE
11	OH TELECOM	UNK	PACBELL	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
12	OH POWER	21kV	PG&E DIST	RELOCATE
13	OH POWER	21kV	PG&E DIST	RELOCATE
14	OH POWER	21kV	PG&E DIST	RELOCATE
15	OH POWER	21kV	PG&E DIST	RELOCATE
16	OH POWER	21kV	PG&E DIST	RELOCATE
17	OH POWER	21kV	PG&E DIST	RELOCATE
18	OH POWER	21kV	PG&E DIST	PROTECT IN PLACE
19	OH POWER	21kV	PG&E DIST	RELOCATE
20	TELECOM	UNK	PACBELL	PROTECT IN PLACE
21	TELECOM	UNK	PACBELL	RELOCATE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
22	OH TELECOM	UNK	PACBELL	RELOCATE
23	OH POWER	21kV	PG&E DIST	REMOVE
24	SEWER	10"	CITY OF BAKERSFIELD	PROTECT IN PLACE
25	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE
26	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE
27	TELECOM	UNK	PACBELL	PROTECT IN PLACE
28	WATER	8"	CALWATER	PROTECT IN PLACE
29	OH POWER	21kV	PG&E DIST	PROTECT IN PLACE
30	WATER	6"	CALWATER	PROTECT IN PLACE
31	NATURAL GAS	2"	PG&E DIST	PROTECT IN PLACE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET
PEPD DESIGN SUBMISSION

T·Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 7010+00 TO 7038+00

CONTRACT NO. HSR13-44
DRAWING NO. UT-C1042
SCALE AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	UNK	CVIN	PROTECT IN PLACE
2	WATER	16"	CALWATER	PROTECT IN PLACE
3	WATER	8"	CALWATER	PROTECT IN PLACE
4	SEWER	8"	KSA	PROTECT IN PLACE
5	WATER	21"	CALWATER	PROTECT IN PLACE
6	SEWER	18"	KSA	PROTECT IN PLACE
7	SEWER	8"	KSA	PROTECT IN PLACE
8	WATER	12"	CALWATER	PROTECT IN PLACE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
19	OH POWER	12KV	PG&E DIST	REMOVE
20	OH POWER	12KV	PG&E DIST	RELOCATE
21	OH POWER	12KV	PG&E DIST	REMOVE
22	OH POWER	12KV	PG&E DIST	RELOCATE
23	OH POWER	12KV	PG&E DIST	RELOCATE
24	OH POWER	12KV	PG&E DIST	RELOCATE
25	OH POWER	12KV	PG&E DIST	RELOCATE
26	SEWER	8"	KSA	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
9	NATURAL GAS	4"	PG&E DIST	RELOCATE
10	NATURAL GAS	2"	PG&E DIST	RELOCATE
11	OH POWER	12KV	PG&E DIST	RELOCATE
12	NATURAL GAS	3"	PG&E DIST	RELOCATE
13	OH TELECOM	UNK	PACBELL	RELOCATE
14	TELECOM	UNK	PACBELL	RELOCATE
15	TELECOM	UNK	PACBELL	RELOCATE
16	TELECOM	UNK	PACBELL	PROTECT IN PLACE
17	OH TELECOM	UNK	PACBELL	RELOCATE
18	OH TELECOM	UNK	PACBELL	RELOCATE

KENTUCKY ST
CENTER ST
UPRR EXIST ROW
UPRR
EAST SIDE CANAL (KDWD)
MATCH LINE (UT-C1042)
MATCH LINE (UT-C1044)
FB LGA NB HSR ℄
FB LGA SB HSR ℄
EDISION HWY
7040+00
7045+00
7050+00
7055+00
7060+00
7065+00
CHAMBERLAIN AVE
MT VERNON AVE
EXCHANGE ST
STEELE AVE
WEBSTER ST
E CALIFORNIA AVE
100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION

TY·LIN INTERNATIONAL

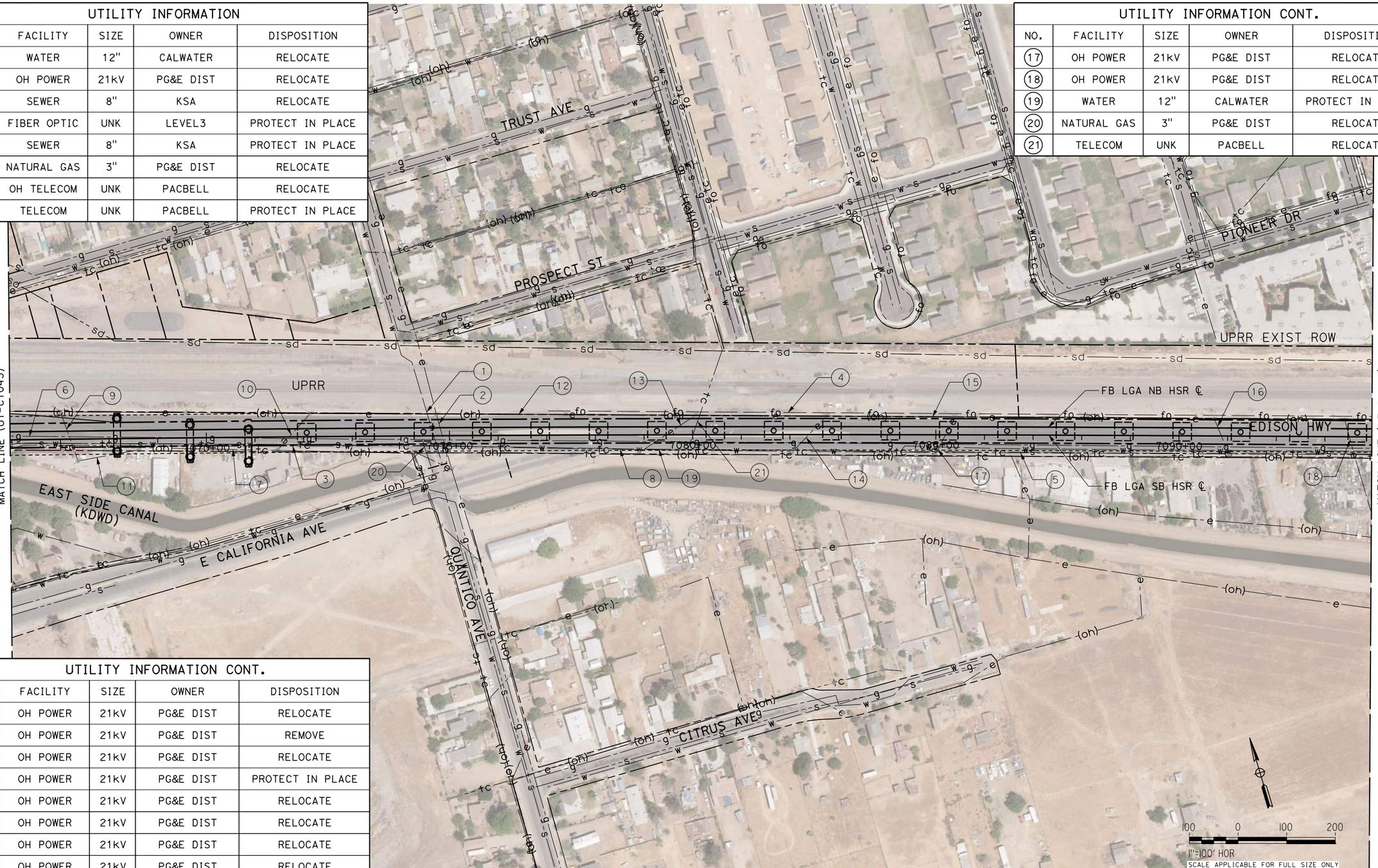
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 7038+00 TO 7066+00

CONTRACT NO. HSR13-44
DRAWING NO. UT-C1043
SCALE AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	12"	CALWATER	RELOCATE
2	OH POWER	21kV	PG&E DIST	RELOCATE
3	SEWER	8"	KSA	RELOCATE
4	FIBER OPTIC	UNK	LEVEL3	PROTECT IN PLACE
5	SEWER	8"	KSA	PROTECT IN PLACE
6	NATURAL GAS	3"	PG&E DIST	RELOCATE
7	OH TELECOM	UNK	PACBELL	RELOCATE
8	TELECOM	UNK	PACBELL	PROTECT IN PLACE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
17	OH POWER	21kV	PG&E DIST	RELOCATE
18	OH POWER	21kV	PG&E DIST	RELOCATE
19	WATER	12"	CALWATER	PROTECT IN PLACE
20	NATURAL GAS	3"	PG&E DIST	RELOCATE
21	TELECOM	UNK	PACBELL	RELOCATE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
9	OH POWER	21kV	PG&E DIST	RELOCATE
10	OH POWER	21kV	PG&E DIST	REMOVE
11	OH POWER	21kV	PG&E DIST	RELOCATE
12	OH POWER	21kV	PG&E DIST	PROTECT IN PLACE
13	OH POWER	21kV	PG&E DIST	RELOCATE
14	OH POWER	21kV	PG&E DIST	RELOCATE
15	OH POWER	21kV	PG&E DIST	RELOCATE
16	OH POWER	21kV	PG&E DIST	RELOCATE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

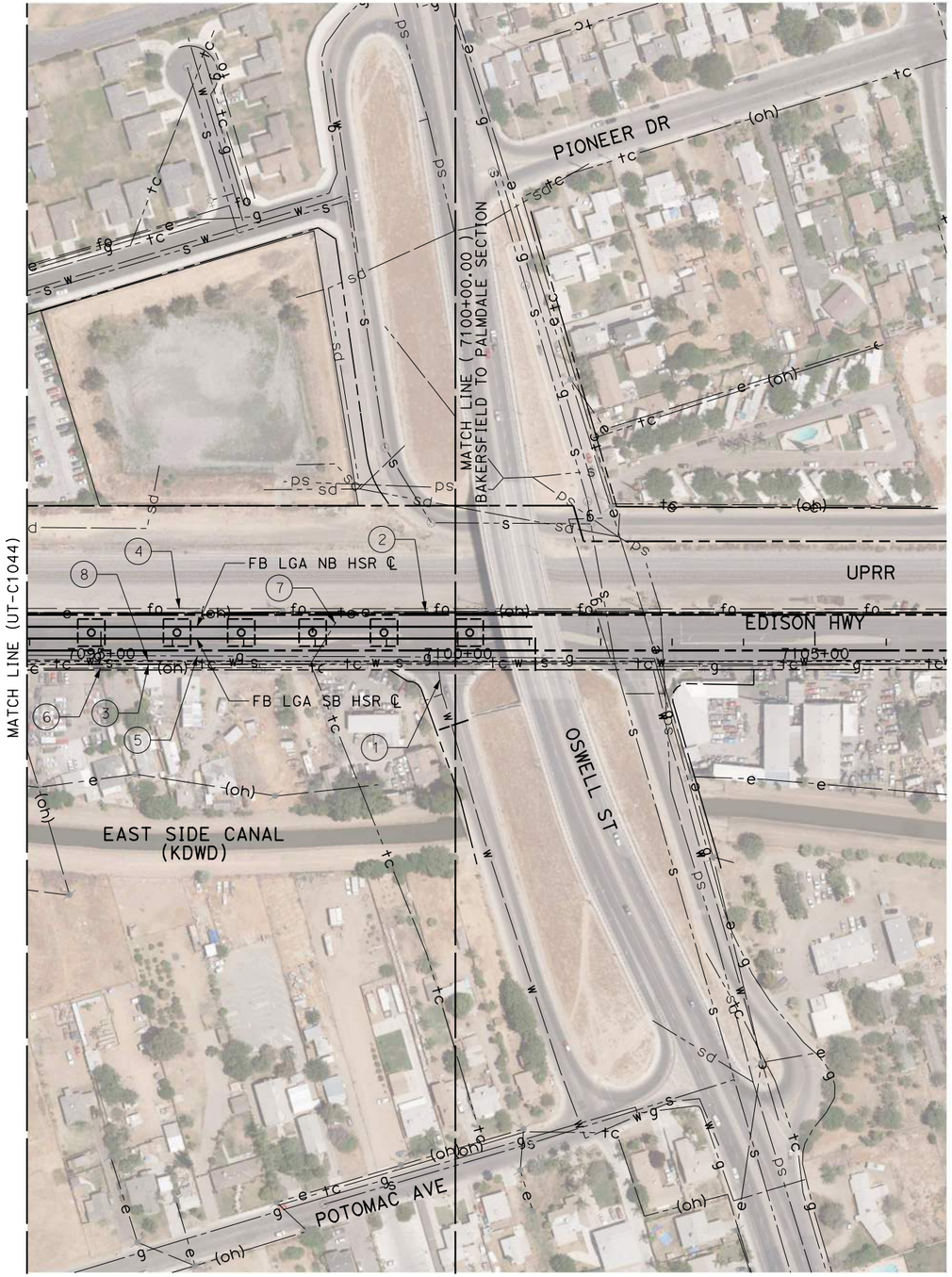
RECORD SET
PEPD DESIGN SUBMISSION

T.Y.LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 7066+00 TO 7094+00

CONTRACT NO. HSR13-44
DRAWING NO. UT-C1044
SCALE AS SHOWN
SHEET NO.



UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	12"	CALWATER	PROTECT IN PLACE
2	OH POWER	21kV	PG&E DIST	RELOCATE
3	SEWER	8"	KSA	REMOVE
4	FIBER OPTIC	UNK	LEVEL3	PROTECT IN PLACE
5	NATURAL GAS	3"	PG&E DIST	RELOCATE
6	OH TELECOM	UNK	PACBELL	PROTECT IN PLACE
7	TELECOM	UNK	PACBELL	RELOCATE
8	WATER	12"	CALWATER	RELOCATE

100 0 100 200
1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 7094+00 TO 7100+00

CONTRACT NO. HSR13-44
DRAWING NO. UT-C1045
SCALE AS SHOWN
SHEET NO.

UTILITY INFORMATION CONT. FROM DWG UT-C1037				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
24	SEWER	6"	CITY OF BAKERSFIELD	REMOVE
25	SEWER	6"	CITY OF BAKERSFIELD	REMOVE
26	SEWER	6"	CITY OF BAKERSFIELD	REMOVE
27	OH POWER	12kV	PG&E DIST	RELOCATE
28	OH POWER	12kV	PG&E DIST	RELOCATE
29	OH POWER	12kV	PG&E DIST	PROTECT IN PLACE
30	OH POWER	12kV	PG&E DIST	REMOVE
31	OH POWER	12kV	PG&E DIST	REMOVE
32	OH POWER	12kV	PG&E DIST	RELOCATE
33	OH POWER	12kV	PG&E DIST	RELOCATE
34	OH POWER	12kV	PG&E DIST	RELOCATE
35	OH TELECOM	UNK	PACBELL	REMOVE
36	OH TELECOM	UNK	PACBELL	REMOVE
37	TELECOM	UNK	AT&T DIST	PROTECT IN PLACE
38	NATURAL GAS	2"	PG&E DIST	PROTECT IN PLACE
39	WATER	12"	CALWATER	PROTECT IN PLACE
40	WATER	6"	CALWATER	PROTECT IN PLACE
41	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE
42	STORM DRAIN	36"	CITY OF BAKERSFIELD	RELOCATE
43	WATER	8"	CALWATER	REMOVE
44	NATURAL GAS	2"	PG&E DIST	REMOVE
45	WATER	4"	CALWATER	REMOVE
46	NATURAL GAS	3"	PG&E DIST	REMOVE
47	WATER	8"	CALWATER	RELOCATE
48	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE
49	WATER	4"	CALWATER	PROTECT IN PLACE
50	OH POWER	12kV	PG&E DIST	RELOCATE
51	OH POWER	12kV	PG&E DIST	RELOCATE
52	OH POWER	12kV	PG&E DIST	RELOCATE
53	OH POWER	12kV	PG&E DIST	RELOCATE
54	OH TELECOM	UNK	PACBELL	RELOCATE
55	SEWER	6"	CITY OF BAKERSFIELD	PROTECT IN PLACE
56	SEWER	6"	CITY OF BAKERSFIELD	PROTECT IN PLACE
57	OH TELECOM	UNK	PACBELL	RELOCATE
58	OH TELECOM	UNK	PACBELL	RELOCATE
59	WATER	6"	CALWATER	PROTECT IN PLACE

MATCH LINE (UT-C1036)

MATCH LINE (UT-C1037)

UTILITY INFORMATION CONT. FROM DWG UT-C1037				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
60	WATER	4"	CALWATER	RELOCATE
61	OH POWER	12kV	PG&E DIST	REMOVE
62	FIBER OPTIC	UNK	AT&T TRANS	RELOCATE
63	FIBER OPTIC	UNK	AT&T TRANS	RELOCATE
64	OH POWER	12kV	PG&E DIST	RELOCATE
65	OH POWER	12kV	PG&E DIST	RELOCATE
66	OH POWER	12kV	PG&E DIST	RELOCATE
67	OH TELECOM	UNK	PACBELL	RELOCATE
68	OH POWER	12kV	PG&E DIST	RELOCATE
69	STORM DRAIN	36"	CITY OF BAKERSFIELD	RELOCATE
70	NATURAL GAS	3"	PG&E DIST	PROTECT IN PLACE

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E DIST	PROTECT-IN-PLACE
2	NATURAL GAS	2"	PG&E DIST	PROTECT-IN-PLACE
3	NATURAL GAS	2"	PG&E DIST	PROTECT-IN-PLACE
4	STORM DRAIN	27"	CITY OF BAKERSFIELD	PROTECT-IN-PLACE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

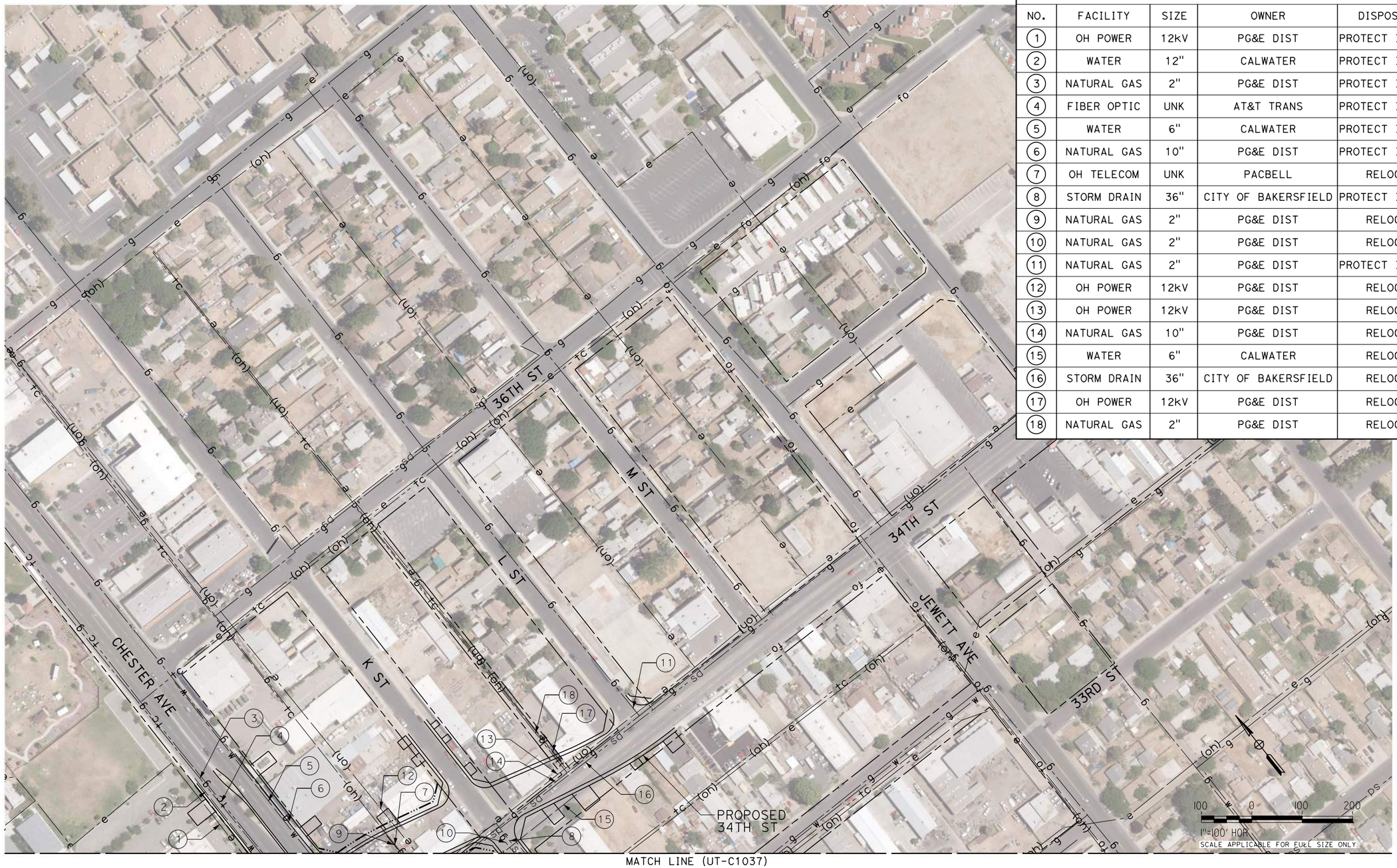
RECORD SET
PEPD DESIGN SUBMISSION

T-Y LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
F STREET

CONTRACT NO. HSR13-44
DRAWING NO. UT-C1506
SCALE AS SHOWN
SHEET NO.



MATCH LINE (UT-C1037)

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E DIST	PROTECT IN PLACE
2	WATER	12"	CALWATER	PROTECT IN PLACE
3	NATURAL GAS	2"	PG&E DIST	PROTECT IN PLACE
4	FIBER OPTIC	UNK	AT&T TRANS	PROTECT IN PLACE
5	WATER	6"	CALWATER	PROTECT IN PLACE
6	NATURAL GAS	10"	PG&E DIST	PROTECT IN PLACE
7	OH TELECOM	UNK	PACBELL	RELOCATE
8	STORM DRAIN	36"	CITY OF BAKERSFIELD	PROTECT IN PLACE
9	NATURAL GAS	2"	PG&E DIST	RELOCATE
10	NATURAL GAS	2"	PG&E DIST	RELOCATE
11	NATURAL GAS	2"	PG&E DIST	PROTECT IN PLACE
12	OH POWER	12kV	PG&E DIST	RELOCATE
13	OH POWER	12kV	PG&E DIST	RELOCATE
14	NATURAL GAS	10"	PG&E DIST	RELOCATE
15	WATER	6"	CALWATER	RELOCATE
16	STORM DRAIN	36"	CITY OF BAKERSFIELD	RELOCATE
17	OH POWER	12kV	PG&E DIST	RELOCATE
18	NATURAL GAS	2"	PG&E DIST	RELOCATE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. SALGADO
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
34TH STREET

CONTRACT NO. HSR13-44
DRAWING NO. UT-C1507
SCALE AS SHOWN
SHEET NO.

ZONE	COUNTY	HST ALIGN	EASTING	NORTHING	POINT ID	STATION	PROPOSED FACILITY SIZE (FT)	PROPOSED/EXISTING FEATURE CROSSED	CROSSING ANGLE	ROW WIDTH WEST OF CL (FT)	ADDITIONAL WIDTH EACH SIDE (FT)	TOTAL LENGTH OF CHANNEL SPANNED BY CULVERT (FT)	EXISTING INVERT ELEVATION	PROPOSED TO OF RAIL ELEVATION	HEIGHT TO TOP OF RAIL (FT)
11S	KER	FB LGA	6175957.63	2378746.29		5882+92	5x5	HYDRAULIC CROSS CULVERT	90	60	0	128	345.00	355.57	10.57
11S	KER	FB LGA	6176255.70	2378455.89		5886+08	5x5	HYDRAULIC CROSS CULVERT	90	56	0	142	343.59	355.57	11.98
11S	KER	FB LGA	6177285.61	2377431.38		5900+61	5x5	HYDRAULIC CROSS CULVERT	90	55	0	185	344.84	355.57	10.73
11S	KER	FB LGA	6177919.07	2376771.85		5909+82	5x5	HYDRAULIC CROSS CULVERT	90	57	0	183	343.76	355.57	11.81
11S	KER	FB LGA	6179133.17	2375581.43		5926+75	5x5	HYDRAULIC CROSS CULVERT	90	68	0	256	345.05	359.86	14.81
11S	KER	FB LGA	6180108.03	2374542.00		5941+00	5x5	HYDRAULIC CROSS CULVERT	90	81	0	209	344.78	371.91	27.13
11S	KER	FB LGA	6196646.90	2361623.15		6153+17	5x5	HYDRAULIC CROSS CULVERT	90	67	0	143	349.39	362.83	13.44
11S	KER	FB LGA	6198075.49	2361150.06		6168+22	5x5	HYDRAULIC CROSS CULVERT	90	56	0	126	350.05	362.05	12.00
11S	KER	FB LGA	6199864.57	2360671.15		6185+75	5x5	HYDRAULIC CROSS CULVERT	90	59	0	134	350.69	363.78	13.08
11S	KER	FB LGA	6202447.90	2360194.91		6213+05	5x5	HYDRAULIC CROSS CULVERT	90	76	0	142	353.19	375.52	22.33
11S	KER	FB LGA	6205007.76	2359963.78		6238+76	5x5	HYDRAULIC CROSS CULVERT	90	78	0	147	363.70	377.29	13.58
11S	KER	FB LGA	6206326.01	2359931.02		6251+95	5x5	HYDRAULIC CROSS CULVERT	90	84	0	163	366.58	393.12	26.55
11S	KER	FB LGA	6207010.86	2359919.27		6258+80	5x5	HYDRAULIC CROSS CULVERT	90	93	0	178	365.86	395.94	30.08
11S	KER	FB LGA	6207631.55	2359901.64		6265+00		BRIDGE OVER ZACHARY AVE	90		0	213	366.13	400.47	34.33
11S	KER	FB LGA	6208977.51	2359888.65		6278+46	5x5	HYDRAULIC CROSS CULVERT	90	102	0	203	368.93	404.81	35.87
11S	KER	FB LGA	6211621.60	2359851.59		6304+91	5x5	HYDRAULIC CROSS CULVERT	90	103	0	203	374.86	411.04	36.18
11S	KER	FB LGA	6212288.54	2359840.99		6311+58	5x5	HYDRAULIC CROSS CULVERT	90	99	0	198	377.15	411.58	34.42
11S	KER	FB LGA	6213029.75	2359827.89		6318+99	5x5	HYDRAULIC CROSS CULVERT	90	102	0	201	378.08	412.17	34.09
11S	KER	FB LGA	6214232.80	2359805.02		6331+00		CANAL	65		0	44	381.04	413.10	32.07
11S	KER	FB LGA	6218205.35	2359541.42		6371+00		BRIDGE OVER ZERKER RD	90		0	50	393.83	416.33	32.50
11S	KER	FB LGA	6220178.95	2359197.70		6390+91	5x5	HYDRAULIC CROSS CULVERT	80	104	0	205	383.21	417.93	34.71
11S	KER	FB LGA	6221481.94	2358890.19		6404+29	5x5	HYDRAULIC CROSS CULVERT	78	102	0	206	384.30	419.02	34.71
11S	KER	FB LGA	6223463.41	2358283.59		6425+00		CANAL	90		0	50	382.87	424.39	41.53
11S	KER	FB LGA	6224101.74	2358066.16		6431+77	5x5	HYDRAULIC CROSS CULVERT	74	100	0	206	387.23	427.35	40.13
11S	KER	FB LGA	6225531.33	2357489.60		6447+57	5x5	HYDRAULIC CROSS CULVERT	90	103	0	210	394.01	435.16	41.15
11S	KER	FB LGA	6226071.77	2357251.84		6453+10	5x5	HYDRAULIC CROSS CULVERT	65	103	0	235	396.90	438.02	41.12
11S	KER	FB LGA	6226735.52	2356932.65		6460+45	5x5	HYDRAULIC CROSS CULVERT	65	100	0	233	402.16	441.56	39.40
11S	KER	FB LGA	6227393.14	2356599.65		6467+82	5x5	HYDRAULIC CROSS CULVERT	65	107	0	285	406.11	444.86	38.75
11S	KER	FB LGA	6228717.23	2355851.05		6483+00		BRIDGE OVER VERDUGO LN	90		0	50	414.86	452.36	37.51
11S	KER	FB LGA	6230703.04	2354561.25		6520+80	5x5	HYDRAULIC CROSS CULVERT	63	136	0	285	426.99	470.38	43.39
11S	KER	FB LGA	6231367.06	2354060.17		6515+00		CANAL	90		0	50	429.86	486.00	56.14
11S	KER	FB LGA	6253821.22	2332614.91		6826+00		CANAL	90	63	0	118	397.58	462.44	64.86
11S	KER	FB LGA	6254592.50	2331978.41		6836+00		BRIDGE OVER KERN RIVER	90		0	118	394.86	459.86	65.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. YIM
DRAWN BY T. SWEITZER
CHECKED BY D. CONYERS
IN CHARGE E. WINTERS
DATE 10/28/2016

RECORD SET
PEPD DESIGN SUBMISSION

T·Y·LIN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
HH&D FACILITY SCHEDULE

CONTRACT NO. HSR13-44
DRAWING NO. UT-Y4505
SCALE NO SCALE
SHEET NO.