

# Bakersfield to Palmdale

**CESAR CHAVEZ NATIONAL MONUMENT (CCNM) DESIGN OPTION  
RECORD SET PEPD  
DESIGN SUBMISSION  
January 2021**



**VOLUME 1  
GENERAL SHEETS**

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
1		CCNM DESIGN OPTION - COVER SHEET
2	GE-B0002	CCNM DESIGN OPTION - GENERAL - INDEX OF DRAWING - SHEET 1 OF 2
3	GE-B0003	CCNM DESIGN OPTION - GENERAL - INDEX OF DRAWING - SHEET 2 OF 2
4	GE-B0004	CCNM DESIGN OPTION - GENERAL - ABBREVIATIONS - SHEET 1 OF 3
5	GE-B0005	CCNM DESIGN OPTION - GENERAL - ABBREVIATIONS - SHEET 2 OF 3
6	GE-B0006	CCNM DESIGN OPTION - GENERAL - ABBREVIATIONS - SHEET 3 OF 3

**ALIGNMENT**

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
7	TT-B0101	CCNM DESIGN OPTION - TRACK GENERAL - SYMBOLS, LEGEND, AND GENERAL NOTES - SHEET 1 OF 1
8	TT-B0102	CCNM DESIGN OPTION - TRACK GENERAL - HORIZONTAL ALIGNMENT DATA TABLE - SHEET 1 OF 1
9	TT-B3101	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 1 OF 4
10	TT-B3102	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 2 OF 4
11	TT-B3103	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 3 OF 4
12	TT-B3104	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 4 OF 4
13	TT-C6101	CCNM DESIGN OPTION - TRACK GENERAL - KEY MAP - SHEET 1 OF 1
14	TT-D1301	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18458+80 TO 18485+00 - PLAN AND PROFILE
15	TT-D1302	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18485+00 TO 18535+00 - PLAN AND PROFILE
16	TT-D1303	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18535+00 TO 18585+00 - PLAN AND PROFILE
17	TT-D1304	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18585+00 TO 18635+00 - PLAN AND PROFILE
18	TT-D1305	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18635+00 TO 18685+00 - PLAN AND PROFILE
19	TT-D1306	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18685+00 TO 18735+00 - PLAN AND PROFILE
20	TT-D1307	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18735+00 TO 18785+00 - PLAN AND PROFILE
21	TT-D1308	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18785+00 TO 18822+99 - PLAN AND PROFILE

**ROADWAY**

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
22	CV-R0001	CCNM DESIGN OPTION - ROADWAY GENERAL - SYMBOLS, LEGEND, AND GENERAL NOTES - SHEET 1 OF 1
23	CV-R0002	CCNM DESIGN OPTION - ROADWAY GENERAL - TYPICAL SECTIONS - SR-58
24	CV-R0003	CCNM DESIGN OPTION - ROADWAY GENERAL - TYPICAL SECTIONS - ACCESS ROADS AND DIRT ROADS
25	CV-R0004	CCNM DESIGN OPTION - ROADWAY GENERAL - KEY MAP - SHEET 1 OF 1
26	CV-R1599	CCNM DESIGN OPTION - ROADWAY - BOX CULVERT CROSSING "18497" - PLAN AND SECTIONS
27	CV-R1600	CCNM DESIGN OPTION - ROADWAY - BOX CULVERT CROSSING "18700" - PLAN AND SECTIONS
28	CV-R1601	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18473" - PLAN AND PROFILE
29	CV-R1602	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18495" - PLAN AND PROFILE
30	CV-R1603	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18616" - PLAN AND PROFILE
31	CV-R1604	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18701" - PLAN AND PROFILE
32	CV-R1605	CCNM DESIGN OPTION - ROADWAY - EASTBOUND STATE ROUTE 58 - PLAN AND PROFILE
33	CV-R1606	CCNM DESIGN OPTION - ROADWAY - EASTBOUND STATE ROUTE 58 - PLAN AND PROFILE
34	CV-R1607	CCNM DESIGN OPTION - ROADWAY - EASTBOUND STATE ROUTE 58 - PLAN AND PROFILE
35	CV-R1608	CCNM DESIGN OPTION - ROADWAY - WESTBOUND STATE ROUTE 58 - PLAN AND PROFILE
36	CV-R1609	CCNM DESIGN OPTION - ROADWAY - WESTBOUND STATE ROUTE 58 - PLAN AND PROFILE
37	CV-R1610	CCNM DESIGN OPTION - ROADWAY - WESTBOUND STATE ROUTE 58 - PLAN AND PROFILE
38	CV-R1612	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18519" - HORIZONTAL ALIGNMENT DATA TABLE
39	CV-R1613	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18519" - PLAN AND PROFILE
40	CV-R1614	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18560" - PLAN AND PROFILE
41	CV-R1615	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18593" - HORIZONTAL ALIGNMENT DATA TABLE
42	CV-R1616	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18593" - PLAN AND PROFILE
43	CV-R1618	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18713" - PLAN AND PROFILE
44	CV-R1619	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18790" - HORIZONTAL ALIGNMENT DATA TABLE
45	CV-R1620	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18790" - PLAN AND PROFILE
46	CV-R1621	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18790" - PLAN AND PROFILE

**VOLUME 2  
CONSTRUCTION SEQUENCING**

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
47	CV-I0001	CCNM DESIGN OPTION - CONSTRUCTION SEQUENCING - GENERAL - NOTES AND LEGEND
48	CV-I0002	CCNM DESIGN OPTION - CONSTRUCTION SEQUENCING - GENERAL - KEY MAP
49	CV-I1101	CCNM DESIGN OPTION - CONSTRUCTION SEQUENCING - SHEET 1 OF 1

**GRADING, DRAINAGE AND RETAINING WALLS**

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
50	CV-G0101	CCNM DESIGN OPTION - GRADING, DRAINAGE AND RETAINING WALLS GENERAL - LEGEND, ABBREV, AND GEN. NOTES
51	CV-G0102	CCNM DESIGN OPTION - GRADING, DRAINAGE AND RETAINING WALLS GENERAL - KEY MAP - SHEET 1 OF 1
52	CV-G1401A	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18460+05 - OFFSITE CULVERT PROFILE
53	CV-G1401B	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18482+70, 18487+63 - OFFSITE CULVERT PROFILE
54	CV-G1402	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18493+35 - OFFSITE CULVERT PROFILE
55	CV-G1403	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18497+86, 18500+69 - OFFSITE CULVERT PROFILE
56	CV-G1404	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18504+01, 18513+70 - OFFSITE CULVERT PROFILE
57	CV-G1405A	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18561+73, 18606+39 - OFFSITE CULVERT PROFILE
58	CV-G1405B	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18658+53 - OFFSITE CULVERT PROFILE
59	CV-G1406A	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18670+58 - OFFSITE CULVERT PROFILE
60	CV-G1406B	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18702+91 - OFFSITE CULVERT PROFILE
61	CV-G1407	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18714+86, 18752+72 - OFFSITE CULVERT PROFILE
62	CV-G1408	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18760+49, 18765+43 - OFFSITE CULVERT PROFILE
63	CV-G1409	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18769+58 - OFFSITE CULVERT PROFILE
64	CV-G1410	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18778+30, 18780+09 - OFFSITE CULVERT PROFILE
65	CV-G1411	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18806+06, 18808+95 - OFFSITE CULVERT PROFILE
66	CV-G4601	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18458+80 TO 18485+00 - PLAN
67	CV-G4602	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18485+00 TO 18510+00 - PLAN
68	CV-G4603	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18510+00 TO 18535+00 - PLAN
69	CV-G4604	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18535+00 TO 18560+00 - PLAN
70	CV-G4605	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18560+00 TO 18585+00 - PLAN
71	CV-G4606	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18585+00 TO 18610+00 - PLAN
72	CV-G4607	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18610+00 TO 18635+00 - PLAN
73	CV-G4608	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18635+00 TO 18660+00 - PLAN
74	CV-G4609	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18660+00 TO 18685+00 - PLAN
75	CV-G4610	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18685+00 TO 18710+00 - PLAN
76	CV-G4611	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18710+00 TO 18735+00 - PLAN
77	CV-G4612	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18735+00 TO 18760+00 - PLAN
78	CV-G4613	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18760+00 TO 18785+00 - PLAN
79	CV-G4614	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18785+00 TO 18810+00 - PLAN
80	CV-G4615	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18810+00 TO 18822+99 - PLAN
81	CV-G4616	CCNM DESIGN OPTION - GRADING AND DRAINAGE - ACCESS ROAD STA 18519+00 - PLAN
82	CV-G4617	CCNM DESIGN OPTION - GRADING AND DRAINAGE - ACCESS ROAD STA 18560+00 - PLAN
83	CV-G4618	CCNM DESIGN OPTION - GRADING AND DRAINAGE - ACCESS ROAD STA 18519+00 - PLAN
84	ST-G1101	CCNM DESIGN OPTION - RETAINING WALL - 18473 - PLAN AND PROFILE
85	ST-G1102	CCNM DESIGN OPTION - RETAINING WALL - 18474 - PLAN AND PROFILE
86	ST-G1103	CCNM DESIGN OPTION - RETAINING WALL - 18769 (STATE ROUTE 58) - PLAN AND PROFILE
87	ST-G1104	CCNM DESIGN OPTION - RETAINING WALL - 18781 AND 18783 (STATE ROUTE 58) - PLAN AND PROFILE
88	ST-G1105	CCNM DESIGN OPTION - RETAINING WALL - 18789 AND 18790 (STATE ROUTE 58) - PLAN AND PROFILE
89	ST-G1106	CCNM DESIGN OPTION - RETAINING WALL - 18792 (STATE ROUTE 58) - PLAN AND PROFILE
90	ST-G1107	CCNM DESIGN OPTION - RETAINING WALL - STATE ROUTE 58 - PLAN AND PROFILE

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY <b>S. LANDOLT</b>
DRAWN BY <b>A. RIVERA</b>
CHECKED BY <b>S. LANDOLT</b>
IN CHARGE <b>G. CAMPBELL</b>
DATE <b>01/29/2021</b>

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

CCNM DESIGN OPTION  
GENERAL  
INDEX OF DRAWING  
SHEET 1 OF 2

CONTRACT NO. HSR13-44
DRAWING NO. GE-B0002
SCALE NO SCALE
SHEET NO. 2

**VOLUME 3  
TRACK AND ROADWAY STRUCTURES**

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
91	ST-J0001	CCNM DESIGN OPTION - TRACK AND ROADWAY STRUCTURES - GENERAL NOTES AND LEGEND
92	ST-J0002	CCNM DESIGN OPTION - TRACK AND ROADWAY STRUCTURES - KEY MAP
93	ST-J0003	CCNM DESIGN OPTION - GENERAL - TYPICAL SECTIONS - SHEET 1 OF 3
94	ST-J0004	CCNM DESIGN OPTION - GENERAL - TYPICAL SECTIONS - SHEET 2 OF 3
95	ST-J0005	CCNM DESIGN OPTION - GENERAL - TYPICAL SECTIONS - SHEET 3 OF 3
96	ST-J1201	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18463+56 TO 18475+16 - PLAN AND ELEVATION
97	ST-J1202	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18463+56 TO 18475+16 - PLAN AND ELEVATION
98	ST-J1203	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18564+23 TO 18585+67 - PLAN AND ELEVATION
99	ST-J1204	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18564+23 TO 18585+67 - PLAN AND ELEVATION
100	ST-J1205	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18564+23 TO 18585+67 - PLAN AND ELEVATION
101	ST-J1206	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18718+57 TO 18747+94 - PLAN AND ELEVATION
102	ST-J1207	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18718+57 TO 18747+94 - PLAN AND ELEVATION
103	ST-J1208	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18718+57 TO 18747+94 - PLAN AND ELEVATION
104	ST-K1101	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 EB OVERHEAD - PLAN AND ELEVATION
105	ST-K1102	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 EB OVERHEAD - PLAN AND ELEVATION
106	ST-K1103	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 EB OVERHEAD - TYPICAL SECTION
107	ST-K1104	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 WB OVERHEAD - PLAN AND ELEVATION
108	ST-K1105	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 WB OVERHEAD - PLAN AND ELEVATION
109	ST-K1106	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 WB OVERHEAD - TYPICAL SECTION

**TRACTION POWER**

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
110	TP-B0101	CCNM DESIGN OPTION - TRACTION POWER GENERAL - LEGEND - SHEET 1 OF 1
111	TP-B0102	CCNM DESIGN OPTION - TRACTION POWER GENERAL - KEY MAP - SHEET 1 OF 1
112	TP-B3101	CCNM DESIGN OPTION - TRACTION POWER GENERAL - TYPICAL SECTIONS - SHEET 1 OF 2
113	TP-B3102	CCNM DESIGN OPTION - TRACTION POWER GENERAL - TYPICAL SECTIONS - SHEET 2 OF 2
114	TP-D0101	CCNM DESIGN OPTION - TRACTION POWER FACILITY LAYOUT
115	TP-E4101	CCNM DESIGN OPTION - TYPICAL LAYOUT - PARALLELING STATION WITH 2 AUTOTRANSFORMERS
116	TP-O4301	CCNM DESIGN OPTION - TRACTION POWER SITE PLAN - PROPOSED PARALLELING STATION 3
117	TP-O4302	CCNM DESIGN OPTION - TRACTION POWER SITE PLAN - PROPOSED PARALLELING STATION 4

**AUTOMATIC TRAIN CONTROL**

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
118	TC-B0101	CCNM DESIGN OPTION - AUTOMATIC TRAIN CONTROL GENERAL - ABBREVIATIONS AND LEGEND - SHEET 1 OF 1
119	TC-B0102	CCNM DESIGN OPTION - AUTOMATIC TRAIN CONTROL GENERAL - KEY MAP - SHEET 1 OF 1
120	TC-D0101	CCNM DESIGN OPTION - AUTOMATIC TRAIN CONTROL LAYOUT
121	TC-F4101	CCNM DESIGN OPTION - AUTOMATIC TRAIN CONTROL SITE PLAN - SITE @ 18750+69

**TUNNEL**

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
122	TN-B0101	CCNM DESIGN OPTION - TUNNEL LEGEND
123	TN-B0102	CCNM DESIGN OPTION - KEY MAP - ALIGNMENT TUNNELS
124	TN-C1001	CCNM DESIGN OPTION - TUNNEL PROFILE - TUNNEL 5 AND 6
125	TN-C4301	CCNM DESIGN OPTION - TUNNEL 5 - NORTH AND SOUTH PORTALS - STA 18505+00 TO STA 18566+00
126	TN-C4302	CCNM DESIGN OPTION - TUNNEL 6 - NORTH PORTAL - STA 18566+00 TO STA 18630+00
127	TN-C4303	CCNM DESIGN OPTION - TUNNEL 6 - SOUTH PORTAL - STA 18630+00 TO STA 18690+00
128	TN-D3001	CCNM DESIGN OPTION - TUNNEL DRILL AND BLAST METHOD - SINGLE TUNNEL CLEARANCE DIAGRAM
129	TN-D3002	CCNM DESIGN OPTION - TUNNEL DRILL AND BLAST METHOD - SINGLE TUNNEL
130	TN-D3003	CCNM DESIGN OPTION - TUNNEL CUT AND COVER BOX - CLEARANCE DIAGRAM - TANGENT TRACK

**VOLUME 4  
UTILITIES**

SHEET No.	DRAWING No.	DRAWING DESCRIPTION
131	UT-B0001	CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - ABBREVIATIONS AND LEGEND
132	UT-B0002	CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - GENERAL NOTES AND UTILITY OWNERS
133	UT-B0003	CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - KEY MAP - SHEET 1 OF 1
134	UT-C4601	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18458+80 TO 18485+00 - PLAN
135	UT-C4602	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18485+00 TO 18510+00 - PLAN
136	UT-C4603	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18510+00 TO 18535+00 - PLAN
137	UT-C4604	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18535+00 TO 18560+00 - PLAN
138	UT-C4605	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18560+00 TO 18585+00 - PLAN
139	UT-C4606	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18585+00 TO 18610+00 - PLAN
140	UT-C4607	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18610+00 TO 18635+00 - PLAN
141	UT-C4608	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18635+00 TO 18660+00 - PLAN
142	UT-C4609	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18660+00 TO 18685+00 - PLAN
143	UT-C4610	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18685+00 TO 18710+00 - PLAN
144	UT-C4611	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18710+00 TO 18735+00 - PLAN
145	UT-C4612	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18735+00 TO 18760+00 - PLAN
146	UT-C4613	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18760+00 TO 18785+00 - PLAN
147	UT-C4614	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18785+00 TO 18810+00 - PLAN
148	UT-C4615	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18810+00 TO 18822+99 - PLAN

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<table border="1"> <tr><td>DESIGNED BY</td><td>S. LANDOLT</td></tr> <tr><td>DRAWN BY</td><td>A. RIVERA</td></tr> <tr><td>CHECKED BY</td><td>S. LANDOLT</td></tr> <tr><td>IN CHARGE</td><td>G. CAMPBELL</td></tr> <tr><td>DATE</td><td>01/29/2021</td></tr> </table>					DESIGNED BY	S. LANDOLT	DRAWN BY	A. RIVERA	CHECKED BY	S. LANDOLT	IN CHARGE	G. CAMPBELL	DATE	01/29/2021	<p align="center"><b>RECORD SET PEPD SUBMITTAL</b></p>	<p align="center"><b>NOT FOR CONSTRUCTION</b></p>			<p align="center"><b>CALIFORNIA HIGH-SPEED RAIL PROJECT BAKERSFIELD TO PALMDALE</b></p> <p align="center">CCNM DESIGN OPTION GENERAL INDEX OF DRAWING SHEET 2 OF 2</p>	<p>CONTRACT NO. HSR13-44</p> <p>DRAWING NO. GE-B0003</p> <p>SCALE NO SCALE</p> <p>SHEET NO. 3</p>
DESIGNED BY	S. LANDOLT																			
DRAWN BY	A. RIVERA																			
CHECKED BY	S. LANDOLT																			
IN CHARGE	G. CAMPBELL																			
DATE	01/29/2021																			
REV	DATE	BY	CHK	APP	DESCRIPTION															

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**A**

AB AGGREGATE BASE  
 ABBC ASBESTOS BONDED BITUMINOUS COATED  
 ABM AIR-BLOWN MORTAR  
 ABN ABANDON  
 ABUT ABUTMENT  
 AC ASPHALT CONCRETE  
 ACB ASPHALT CONCRETE BASE  
 ACP ASBESTOS CEMENT PIPE  
 ADL ADDED DEAD LOAD  
 ADJ ADJUST  
 AFES ALTERNATIVE FLARED END SECTION  
 AHD AHEAD  
 ALT ALTERNATE  
 AM TIME FROM MIDNIGHT TO NOON  
 AP ALTERNATIVE PIPE  
 APC ALTERNATIVE PIPE CULVERT  
 APPROX APPROXIMATE  
 APU ALTERNATIVE PIPE UNDERDRAIN  
 ARS ACCELERATION RESPONSE SPECTRUM  
 AR ACCESS RESTRICTION  
 AS AGGREGATE SUBBASE  
 ASRP ALUMINUM SPIRAL RIB PIPE  
 ASSY ASSEMBLY  
 ATC AUTOMATIC TRAIN CONTROL  
 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 BURLINGTON NORTH & SANTA FE  
 BOT BOTTOM  
 BR BRIDGE  
 BRG BEARING  
 BTU BRITISH THERMAL UNIT  
 BVC BEGIN VERTICAL CURVE  
 BW BARBED WIRE

**C**

C CUT  
 CAA CABLE ANCHOR ASSEMBLY  
 CAP CORRUGATED ALUMINUM PIPE  
 CAPA CORRUGATED ALUMINUM PIPE ARCH  
 CAS CONSTRUCTION AREA SIGN  
 CB CONCRETE BARRIER  
 CBW CONCRETE BLOCK WALL  
 C-C CENTER TO CENTER  
 CHSRA CALIFORNIA HIGH SPEED RAIL AUTHORITY  
 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 CAST-IN-PLACE, CAST IRON PIPE  
 CIPCP CAST IN PLACE CONCRETE PIPE  
 CISS CAST-IN-STEEL-SHELL  
 CJP COMPLETE JOINT PENETRATION  
 CL CENTERLINE, CLASS  
 CL2 CLASS 2  
 CL-6 CHAIN LINK FENCE (6 FT)  
 CLR CLEAR, CLEARANCE  
 CM CORRUGATED METAL  
 CMP CORRUGATED METAL PIPE  
 CO COUNTY  
 COL COLUMN  
 CONC CONCRETE  
 COND CONDUIT  
 CONN CONNECTOR  
 CONST CONSTRUCT, CONSTRUCTION  
 CONT CONTINUOUS  
 COORD COORDINATE  
 CP CANDLEPOWER  
 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  
 CTB CEMENT TREATED BASE  
 CTPB CEMENT TREATED PERMEABLE BASE  
 CTPM CEMENT TREATED PERMEABLE MATERIAL  
 CTRS CENTERS  
 CVFPB CENTRAL VALLEY FLOOD PROTECTION BOARD  
 CULV CULVERT  
 C CENTERLINE

**D**

D DEPTH  
 D&B DRILL AND BLAST  
 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  
 DS DESIGN SPEED  
 DTBB DOUBLE THRIE BEAM BARRIER  
 DWG DRAWING  
 DWP DEPARTMENT OF WATER AND POWER  
 DWY DRIVEWAY

**E**

E EAST, EASTING, ELECTRICAL  
 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  
 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 FILL, FIXED BEARING  
 F & C FRAME AND COVER  
 F & G FRAME AND GRATE  
 FB FLOOR BEAM  
 F-B FRESNO TO BAKERSFIELD  
 FDN FOUNDATION  
 FEBT FACING EASTBOUND TRAFFIC  
 FES FLARED END SECTION  
 FF FILTER FABRIC  
 FG FINISHED GRADE  
 FH FIRE HYDRANT  
 FIG FIGURE  
 FL FLOW LINE  
 FLS FIRE AND LIFE SAFETY  
 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, NATURAL GAS  
 GA GAGE  
 GALV GALVANIZED  
 GP GRADING PLANE  
 GR GUARD RAILING  
 GSP GALVANIZED STEEL PIPE  
 GTR GUTTER

**H**

H HEIGHT  
 HR HOUR  
 HD HORIZONTAL DRAIN  
 HDC HIGH DESERT CORRIDOR  
 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  
 HV HIGH VOLTAGE  
 HW HEADWALL, HIGH WATER  
 HWM HIGH WATER MARK  
 HWY HIGHWAY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**S. LANDOLT**  
 DRAWN BY  
**J. MEREDITH**  
 CHECKED BY  
**S. LANDOLT**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

**RECORD SET  
 PEPD  
 SUBMITTAL**

**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
 BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 GENERAL  
 ABBREVIATIONS  
 SHEET 1 OF 3

CONTRACT NO.  
HSR13-44  
 DRAWING NO.  
GE-B0004  
 SCALE  
NO SCALE  
 SHEET NO.  
4

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1/15/2021

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**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  
 LGA LOCALLY GENERATED ALTERNATIVE  
 LID LOW IMPACT DEVELOPMENT BEST MANAGEMENT PRACTICES  
 LMF LIGHT MAINTENANCE FACILITY  
 LN LANE  
 LOC LOCATION  
 LOL LAYOUT LINE  
 LONG LONGITUDE  
 LONGIT LONGITUDINAL  
 LS LENGTH OF SPIRAL  
 LC LENGTH OF CURVE  
 LT LEFT  
 LV LOW VOLTAGE

**M**

MAINT MAINTENANCE  
 MAX MAXIMUM  
 MB METAL BEAM  
 MBB METAL BEAM BARRIER  
 MBGR METAL BEAM GUARD RAILING  
 MED MEDIAN  
 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 MAINTENANCE OF INFRASTRUCTURE FACILITY  
 MOIS MAINTENANCE OF INFRASTRUCTURE SIDING  
 MP METAL PLATE

**M CONTINUED**

MPGR METAL PLATE GUARD RAILING  
 MPH MILES PER HOUR  
 MR MOVEMENT RATING  
 MSE MECHANICALLY STABILIZED EARTH  
 MTL MATERIAL  
 MSS MOVING SCAFFOLDING SYSTEM

**N**

N NORTH, NORTHING  
 NB NORTHBOUND  
 NF NEGATIVE FEEDER  
 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  
 OSS ONSITE STORMWATER DETENTION

**P**

P PAGE  
 PAP PERFORATED ALUMINUM PIPE  
 PB PULL BOX, PALMDALE TO BURBANK  
 PC POINT OF CURVATURE, PRECAST  
 PCC POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE  
 PCP PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE  
 PCVC POINT OF COMPOUND VERTICAL CURVE  
 PED PEDESTRIAN  
 PED OC PEDESTRIAN OVERCROSSING  
 PED UC PEDESTRIAN UNDERCROSSING  
 PERM MTL PERMEABLE MATERIAL  
 PG PROFILE GRADE  
 PG&E PACIFIC GAS AND ELECTRIC  
 PI POINT OF INTERSECTION  
 PJP PARTIAL JOINT PENETRATION  
 P,PL PLATE  
 P/L PROPERTY LINE  
 PM POST MILE, TIME FROM NOON TO MIDNIGHT  
 PN PAVING NOTCH

**P CONTINUED**

POB POINT OF BEGINNING  
 POC POINT OF HORIZONTAL CURVE  
 POE POINT OF ENDING  
 POT POINT OF TANGENT  
 POVC POINT OF VERTICAL CURVE  
 PP PIPE PILE, PLASTIC PIPE, POWER POLE  
 PPEF PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT  
 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, PARALLELING STATION  
 PSP PERFORATED STEEL PIPE  
 PT POINT OF TANGENCY  
 PTEF PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT  
 PTSW POINT OF TRACK SWITCH  
 PVC POLYVINYL CHLORIDE  
 PVI POINT OF VERTICAL INTERSECTION  
 PVMT PAVEMENT  
 PVP MAINTENANCE VEHICLE PULLOUT

**Q**

QTY QUANTITY

**R**

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

**R CONTINUED**

R/W RIGHT OF WAY  
 RWY RAILWAY

**S**

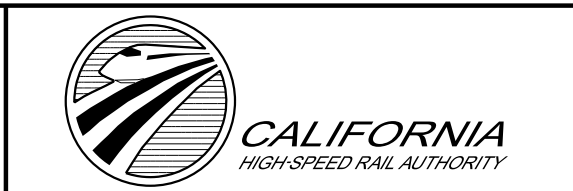
S SOUTH, SUPPLEMENT, SLOPE, STATION LINE, SEWER  
 SAE STRUCTURE APPROACH EMBANKMENT  
 SALV SALVAGE  
 SAPP STRUCTURAL ALUMINUM PLATE PIPE  
 SB SOUTHBOUND  
 SC SPIRAL TO CURVE  
 SCE SOUTHERN CALIFORNIA EDISON  
 SCSP SLOTTED CORRUGATED STEEL PIPE  
 SD STORM DRAIN  
 SEC SECOND  
 SECT SECTION  
 SEP SEPARATION  
 SG SUBGRADE  
 SHLD SHOULDER  
 SHT SHEET  
 SIM SIMILAR  
 SM SELECTED MATERIAL  
 SPEC SPECIAL, SPECIFICATIONS  
 SPP SLOTTED PLASTIC PIPE  
 SS SLOPE STAKE, SPIRAL TO SPIRAL, SUPPLY 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  
 SSTRP 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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**S. LANDOLT**  
 DRAWN BY  
**J. MEREDITH**  
 CHECKED BY  
**S. LANDOLT**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

**RECORD SET  
 PEPD  
 SUBMITTAL**

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 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
 BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 GENERAL  
 ABBREVIATIONS  
 SHEET 2 OF 3

CONTRACT NO.  
 HSR13-44  
 DRAWING NO.  
 GE-B0005  
 SCALE  
 NO SCALE  
 SHEET NO.  
 5

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12/22/2020

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**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  
 TF TOP OF FOOTING  
 TG TOP OF GRADE  
 TM TECHNICAL MEMORANDUM  
 TOR TOP OF RAIL  
 TOT TOTAL  
 TP TRACTION POWER, TUNNEL PORTAL  
 TPB TREATED PERMEABLE BASE  
 TPF TRACTION POWER FACILITY  
 TPM TREATED PERMEABLE MATERIAL  
 TPS TRACTION POWER SUPPLY SYSTEM  
 TPSS TRACTION POWER SUBSTATION  
 TRANS TRANSITION, TRANSVERSE  
 TS TRAFFIC SIGNAL, TUBULAR STEEL,  
 TANGENT TO SPIRAL  
 TW TOP OF WALL  
 TYP TYPICAL

**U**

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

**V**

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

**W**

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

**X**

X SEC CROSS SECTION  
 XING CROSSING

**Y**

YR YEAR  
 YRS YEARS

**Z**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**S. LANDOLT**  
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**J. MEREDITH**  
 CHECKED BY  
**S. LANDOLT**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

**RECORD SET  
 PEPD  
 SUBMITTAL**

**NOT FOR  
 CONSTRUCTION**

**TYLIN INTERNATIONAL**



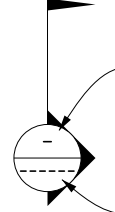
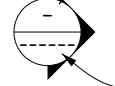





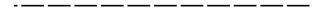
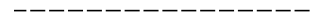





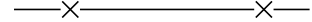









**CALIFORNIA HIGH-SPEED RAIL PROJECT  
 BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
 GENERAL  
 ABBREVIATIONS  
 SHEET 3 OF 3





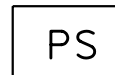
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HSR13-44  
 DRAWING NO.  
GE-B0006  
 SCALE  
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 SHEET NO.  
6

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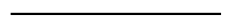
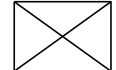
**PLAN**

-  SECTION NUMBER
-  DRAWING NUMBER
-  CURVE DATA (ALIGNMENTS, ROADWAYS)
-  CURVE DATA (STRUCTURES)
-  LINE DATA (ALIGNMENTS, ROADWAYS)
-  NORTH ARROW
-  EXIST RIGHT OF WAY
-  LIMITS OF EXCAVATION (CUT)
-  LIMITS OF EMBANKMENT (FILL)
-  FAULT ZONE
-  EXIST CALTRANS RIGHT OF WAY
-  EXIST RETAINING WALL
-  PPEF
-  PROPOSED COLUMN/FOOTING
-  PROPOSED FENCE
-  PROPOSED RETAINING WALL
-  PROPOSED CONCRETE BARRIER
-  PROPOSED RIGHT OF WAY
-  PROPOSED TUNNEL
-  PTEF
-  STANDALONE RADIO SITE
-  AUTOMATIC TRAIN CONTROL SYSTEM SITE A
-  AUTOMATIC TRAIN CONTROL SYSTEM SITE B
-  AUTOMATIC TRAIN CONTROL SYSTEM SITE D

**PLAN**

-  AUTOMATIC TRAIN CONTROL SYSTEM SITE E
-  TRACK CROSSING PANEL
-  SUPPLY STATION
-  SWITCHING STATION
-  PARALLELING STATION

**PROFILE**

-  ORIGINAL GROUND
-  PROPOSED CHSR ELEVATION
-  STRUCTURAL CLEARANCE ENVELOPE

**GENERAL NOTES**

1. ROADWAY IMPROVEMENTS SHOWN ON ROADWAY PLANS.
2. TRACK ALIGNMENT CONTROL LINE IS THE CENTERLINE OF THE SB TRACK.
3. TRACK PROFILE SHOWN IS THE TOP OF THE LOW (NON-SUPERELEVATED) RAIL OF THE SB TRACK.
4. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
5. ROW LIMITS SHOWN ARE LIMITS OF PROPERTY TO BE OWNED BY CHSR AUTHORITY.
6. PPEF SHOWN IS LIMIT OF PERMANENT GROUND DISTURBANCE ASSOCIATED WITH THE PROJECT.
7. PTEF SHOWN IS LIMIT OF TEMPORARY GROUND DISTURBANCE ASSOCIATED WITH THE PROJECT.
8. ALL UTILITIES ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
9. FOR DETAILED STRUCTURE DEPTH INFORMATION SEE STRUCTURAL PLAN SET.

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CARSON**

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**A. RIVERA**

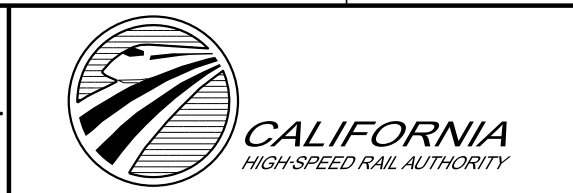
CHECKED BY  
**S. LANDOLT**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**



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

CCNM DESIGN OPTION  
TRACK GENERAL  
SYMBOLS, LEGEND, AND GENERAL NOTES  
SHEET 1 OF 1

CONTRACT NO.  
HSR13-44

DRAWING NO.  
TT-B0101

SCALE  
NO SCALE

SHEET NO.  
7

**NOTES:**

1. RADII ARE POSITIVE IN VALUE BY THE CONVENTION OF LOOKING UP STATION AND TURNING RIGHT.

CCNM DESIGN OPTION 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)
7	POT			18458+80.38	2277489.99	6386827.38							250
	TS	S61°18'51"E	2509.54	18483+89.92	2276285.40	6389028.91			Cosine				250
	SC			18508+39.92	2275081.63	6391162.54				2450			250
	CS			18591+79.07	2269771.77	6397552.73	28000	8339.16	Cosine		6.00	2.93	250
	ST	S39°14'12"E	7943.77	18616+29.07	2267894.64	6399126.83				2450			250
8	TS			18695+72.84	2261741.87	6404151.46			Cosine				250
	SC			18721+72.84	2259749.60	6405821.69				2600			250
	CS			18796+94.42	2254818.24	6411475.02	-30000	7521.58	Cosine		5.50	2.83	250
	ST			18822+94.42	2253434.01	6413675.63				2600			250
	POT	S58°34'03"E	4.43	18822+98.85	2253431.70	6413679.42							250

CCNM STA 18458+80.38=  
ALT 1,2,3,5 STA 18458+80.38

CCNM STA 18822+98.85=  
ALT 1,2,3,5 STA 18821+80.08

CCNM DESIGN OPTION NB													
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)
7	POT			18458+80.38	2277512.14	6386839.50							250
	TS	S61°18'51"E	2509.54	18483+89.92	2276307.55	6389041.03			Cosine				250
	SC			18508+39.92	2275103.81	6391174.68				2450			250
	CS			18591+88.80	2269787.76	6397572.30	28025.25	8348.89	Cosine		6.00	2.93	250
	ST	S39°14'12"E	7943.77	18616+38.80	2267910.61	6399146.38				2450			250
8	TS			18695+82.57	2261757.84	6404171.02			Cosine				250
	SC			18721+82.57	2259765.59	6405841.27	-29974.75			2600			250
	CS			18796+95.63	2254839.81	6411488.20		7513.06	Cosine		5.50	2.83	250
	ST			18822+95.63	2253455.55	6413688.80				2600			250
	POT	S58°34'03"E	4.43	18823+00.06	2253453.24	6413692.58							250

CCNM STA 18458+80.38=  
ALT 1,2,3,5 STA 18458+84.76

CCNM STA 18823+00.06=  
ALT 1,2,3,5 STA 18821+85.67

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1/20/2021

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
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DRAWN BY  
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CHECKED BY  
**S. LANDOLT**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

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

CCNM DESIGN OPTION  
TRACK GENERAL  
HORIZONTAL ALIGNMENT DATA TABLE  
SHEET 1 OF 1

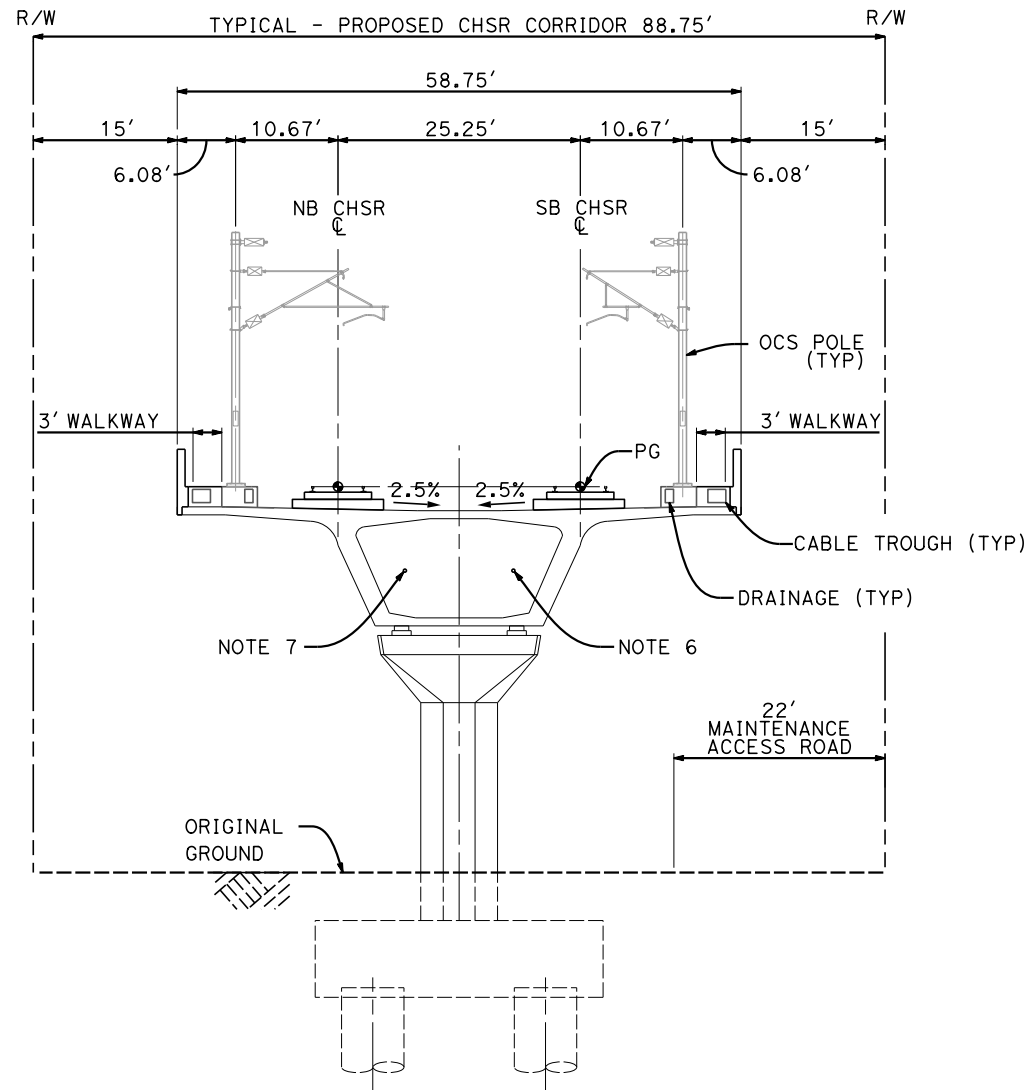
CONTRACT NO.  
HSR13-44

DRAWING NO.  
TT-B0102

SCALE  
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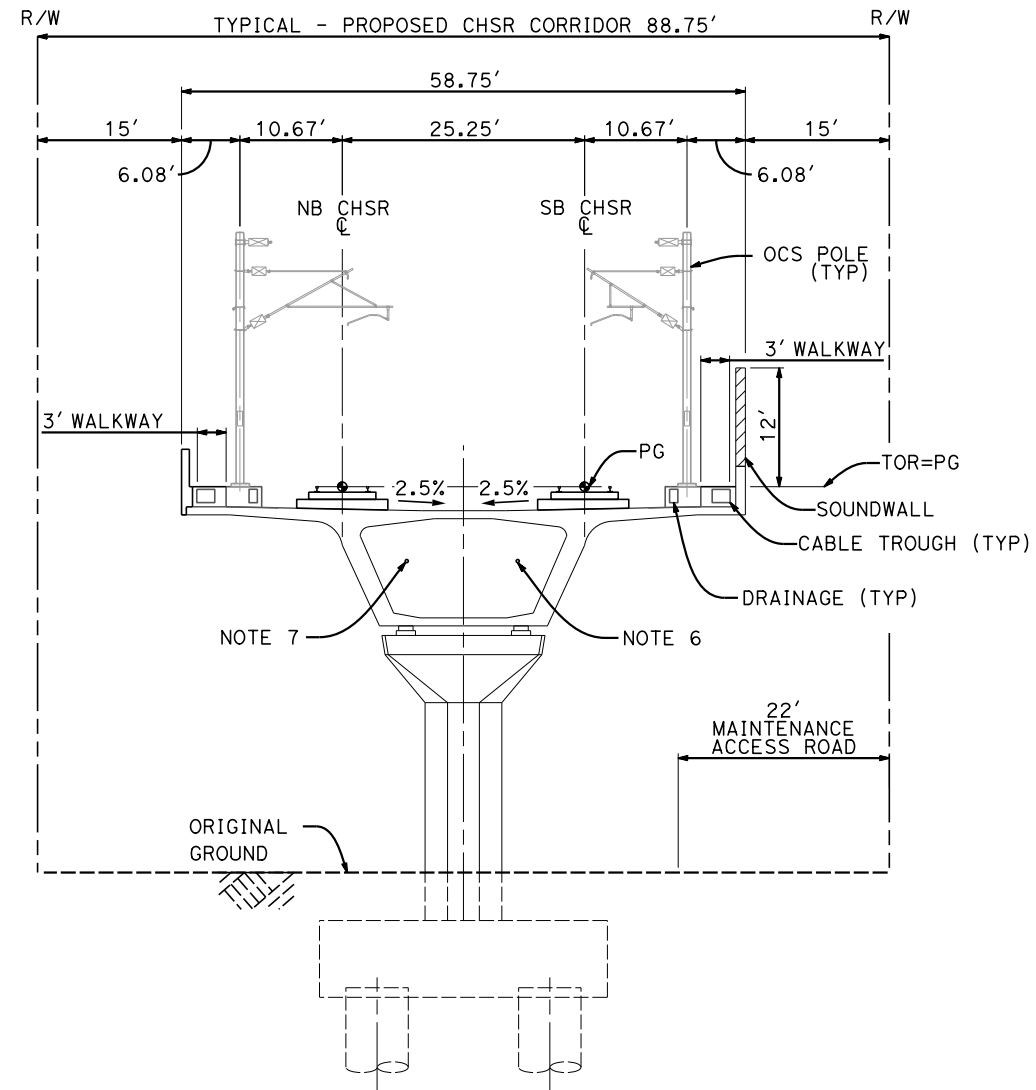
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8





**SECTION C-1**

STA 18463+56 TO 18475+16  
 STA 18718+57 TO 18747+94



**SECTION C-2**

STA 18564+23 TO 18585+67

**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES.
3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS.
4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS.
5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS.
6. PROPOSED 4" CHSR WATERLINE FROM STATION 18458+80 TO 18822+99.
7. PROPOSED ELECTRIC SERVICE FROM STATION 18458+80 TO 18822+99.



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\CCNM\TTBP-TT-B3101

3:16:33 AM

1/20/2021

jcs\_user\_17609

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CARSON**

DRAWN BY  
**A. RIVERA**

CHECKED BY  
**S. LANDOLT**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**



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

CCNM DESIGN OPTION  
 TRACK GENERAL  
 TYPICAL SECTIONS  
 SHEET 1 OF 4

CONTRACT NO.  
HSR13-44

DRAWING NO.  
TT-B3101

SCALE  
AS SHOWN

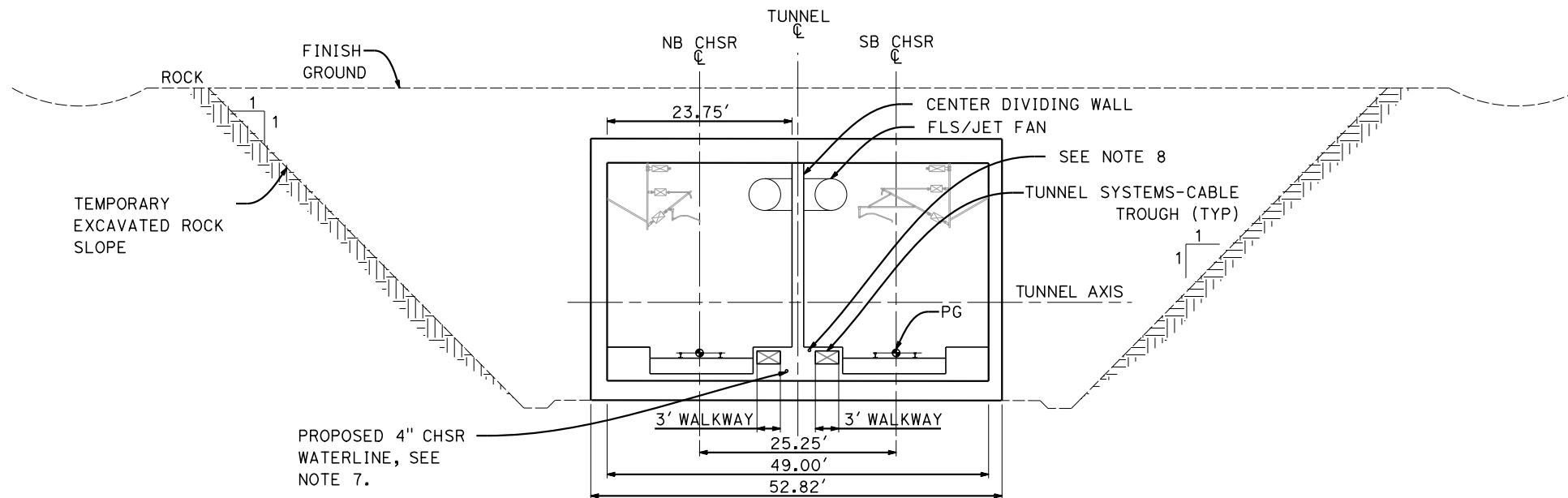
SHEET NO.  
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1/20/2021

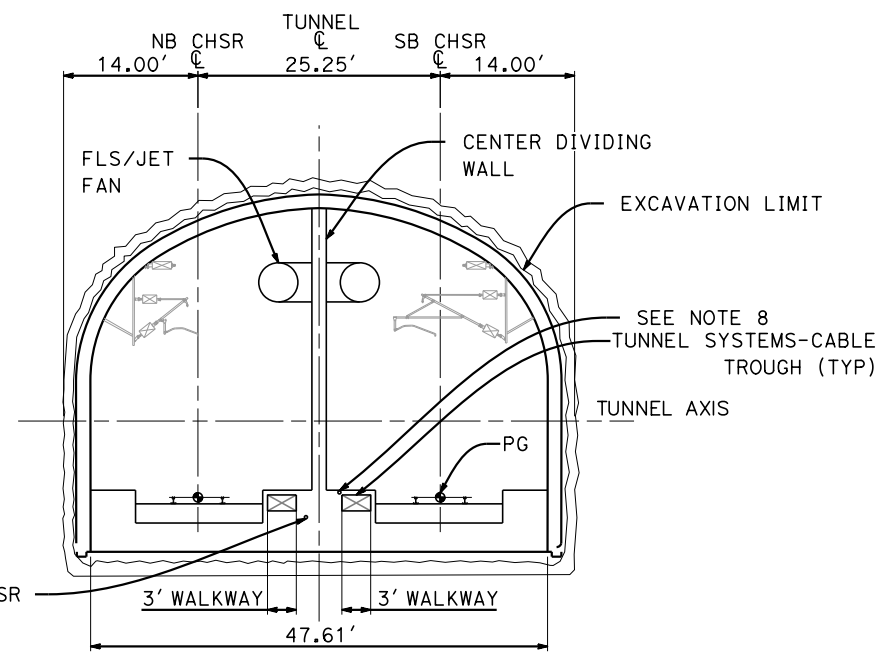
ics\_user\_17609



**SECTION H**

SINGLE TUNNEL - CUT AND COVER

STA 18550+00 TO 18556+00



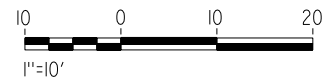
**SECTION J**

SINGLE TUNNEL - DRILL AND BLAST

STA 18522+77 TO 18550+00  
STA 18613+25 TO 18656+25

**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES
3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS
4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS
5. FOR MAINTENANCE FACILITY DETAILS SEE MY TYPICAL SECTIONS
6. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS
7. PROPOSED 4" WATER LINE PARALLELS ALIGNMENT FROM STATION 18458+80 TO 18822+99
8. PROPOSED ELECTRIC SERVICE FROM STATION 18458+80 TO 18822+99



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CARSON**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**S. LANDOLT**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

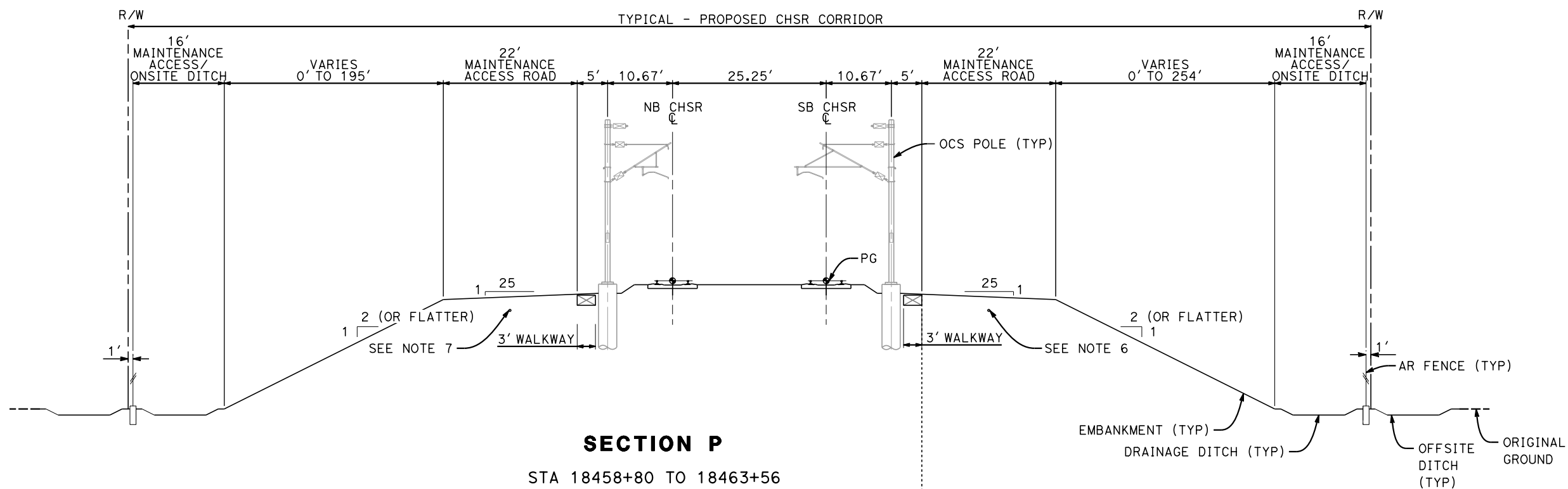
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TRACK GENERAL  
TYPICAL SECTIONS  
SHEET 2 OF 4

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
TT-B3102  
SCALE  
AS SHOWN  
SHEET NO.  
10

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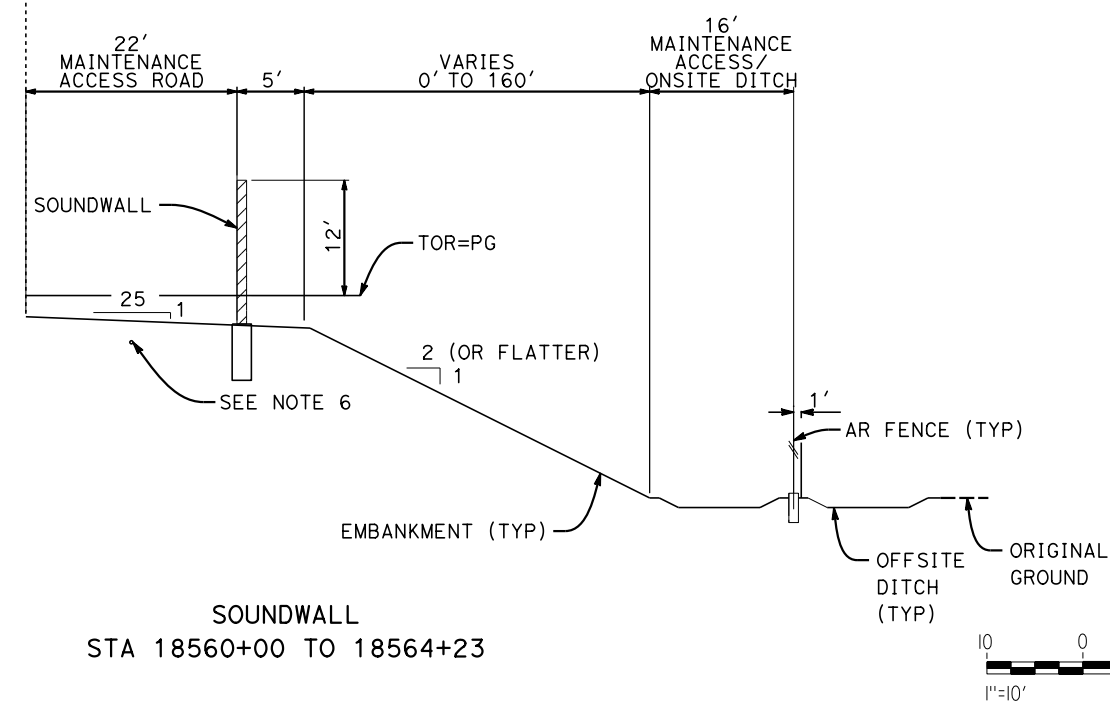
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ics\_user\_17609

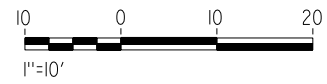


**SECTION P**

- STA 18458+80 TO 18463+56
- STA 18475+16 TO 18522+77
- STA 18556+00 TO 18560+00
- STA 18585+67 TO 18586+59
- STA 18700+50 TO 18718+57
- STA 18747+94 TO 18753+94
- STA 18759+50 TO 18761+69
- STA 18764+19 TO 18770+50
- STA 18775+12 TO 18781+19
- STA 18808+19 TO 18810+51



**SOUNDWALL**  
STA 18560+00 TO 18564+23



**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES.
3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS.
4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS.
5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS.
6. PROPOSED 4" CHSR WATERLINE FROM STATION 18458+80 TO 18822+99.
7. PROPOSED ELECTRIC SERVICE FROM STATION 18458+80 TO 18822+99.

REV	DATE	BY	CHK	APP	DESCRIPTION

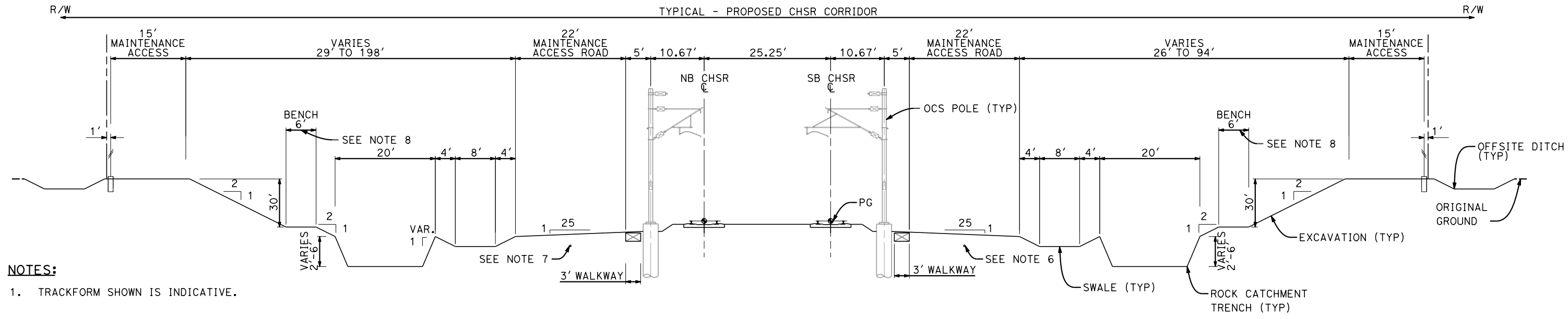
DESIGNED BY  
**A. CARSON**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**S. LANDOLT**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
TRACK GENERAL  
TYPICAL SECTIONS  
SHEET 3 OF 4

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
TT-B3103  
SCALE  
AS SHOWN  
SHEET NO.  
11



**SECTION S**

- STA 18586+59 TO 18613+25
- STA 18656+25 TO 18700+50
- STA 18753+94 TO 18759+50
- STA 18761+69 TO 18764+19
- STA 18770+50 TO 18775+12
- STA 18781+19 TO 18808+19
- STA 18810+51 TO 18822+99

- NOTES:**
1. TRACKFORM SHOWN IS INDICATIVE.
  2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES.
  3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS.
  4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS.
  5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL SECTIONS.
  6. PROPOSED 4" CHSR WATERLINE FROM STATION 18458+80 TO 18822+99.
  7. PROPOSED ELECTRIC SERVICE FROM STATION 18458+80 TO 18822+99.
  8. BENCH SHALL BE INCLUDED WHERE SLOPE EXCEEDS 30' VERTICAL.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CARSON**

DRAWN BY  
**A. RIVERA**

CHECKED BY  
**S. LANDOLT**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

CCNM DESIGN OPTION  
TRACK GENERAL  
TYPICAL SECTIONS  
SHEET 4 OF 4

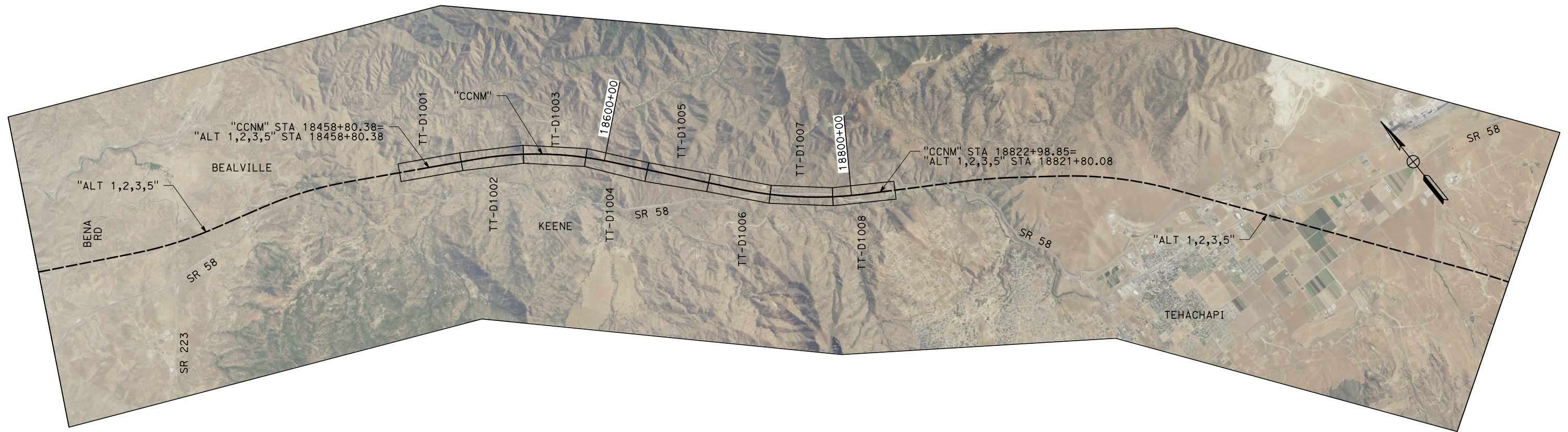
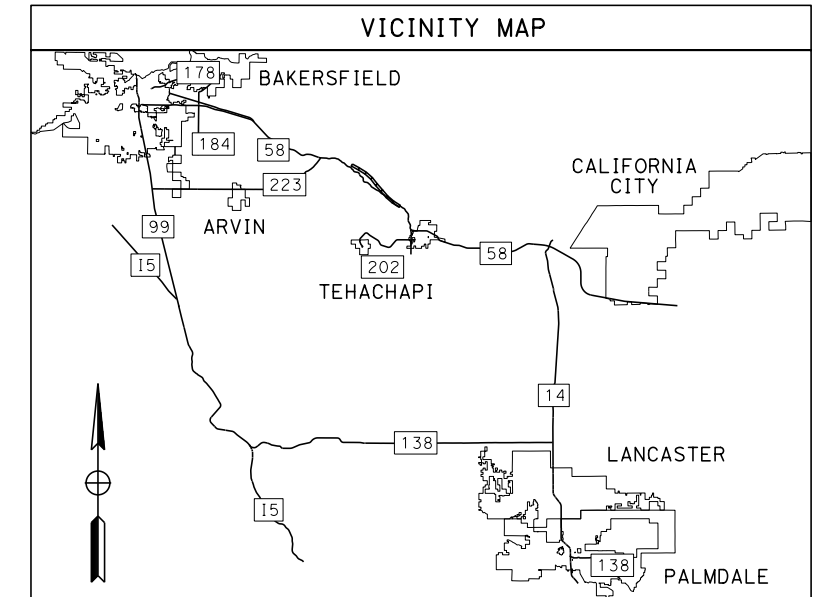
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HSR13-44

DRAWING NO.  
TT-B3104

SCALE  
AS SHOWN

SHEET NO.  
12

# CCNM DESIGN OPTION



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\CCNM\TT\BP-TT-C6101

3:07:21 AM

1/20/2021

ics\_user\_17609

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CARSON**

DRAWN BY  
**A. RIVERA**

CHECKED BY  
**S. LANDOLT**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**



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

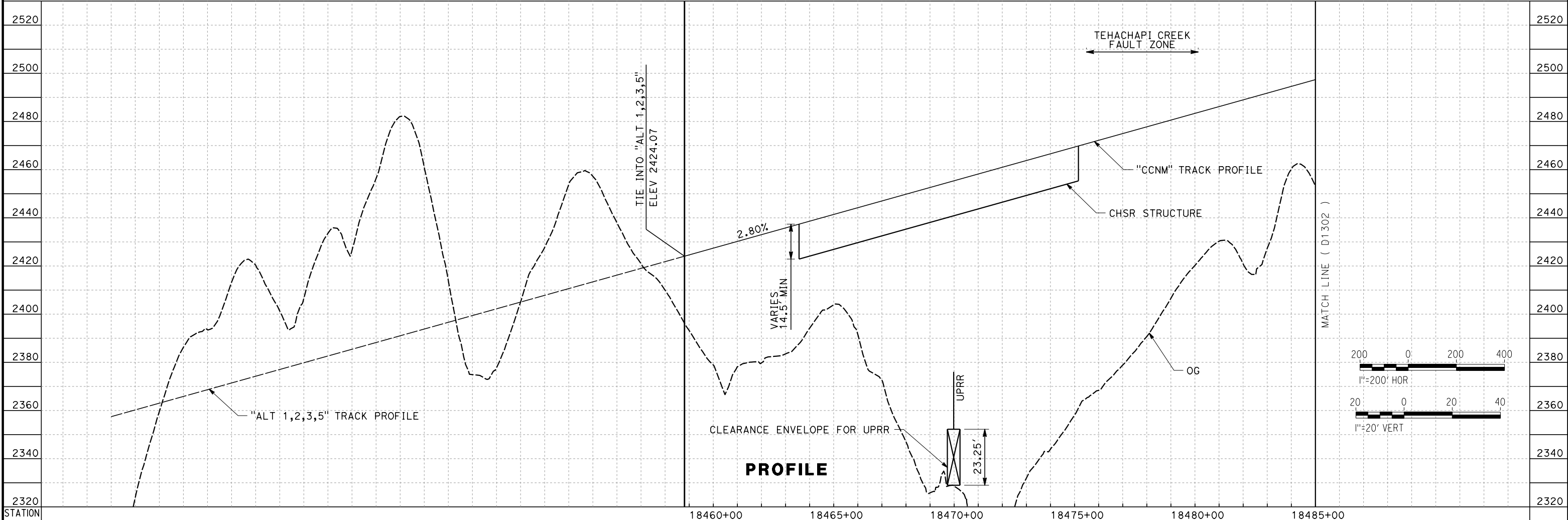
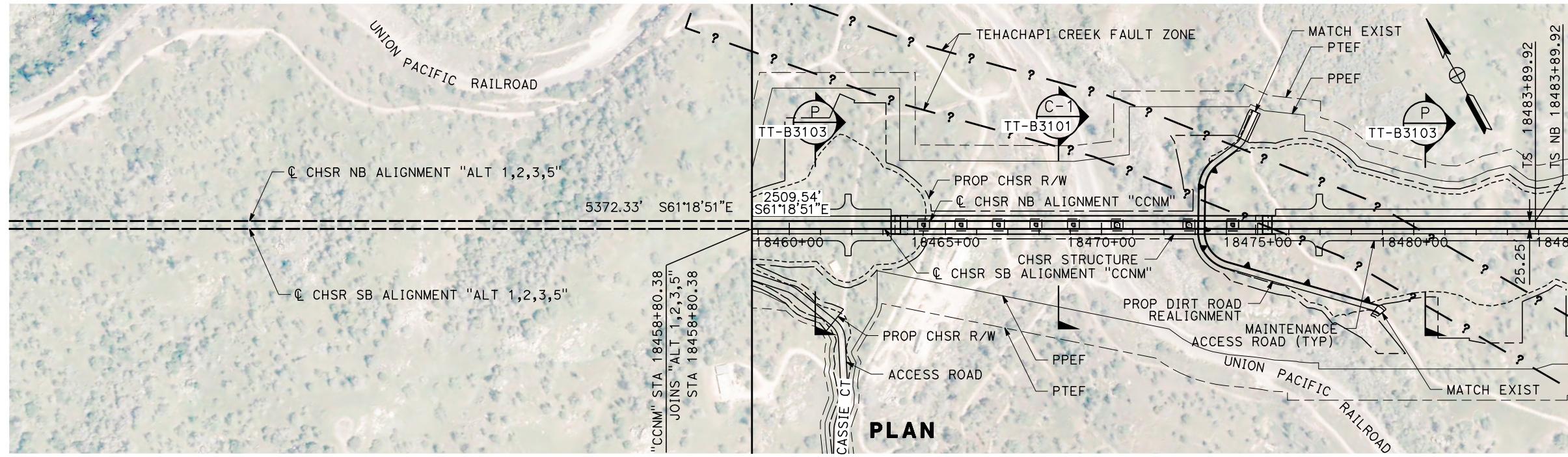
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KEY MAP  
SHEET 1 OF 1

CONTRACT NO.  
HSR13-44

DRAWING NO.  
TT-C6101

SCALE  
AS SHOWN

SHEET NO.  
13



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CARSON**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**S. LANDOLT**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

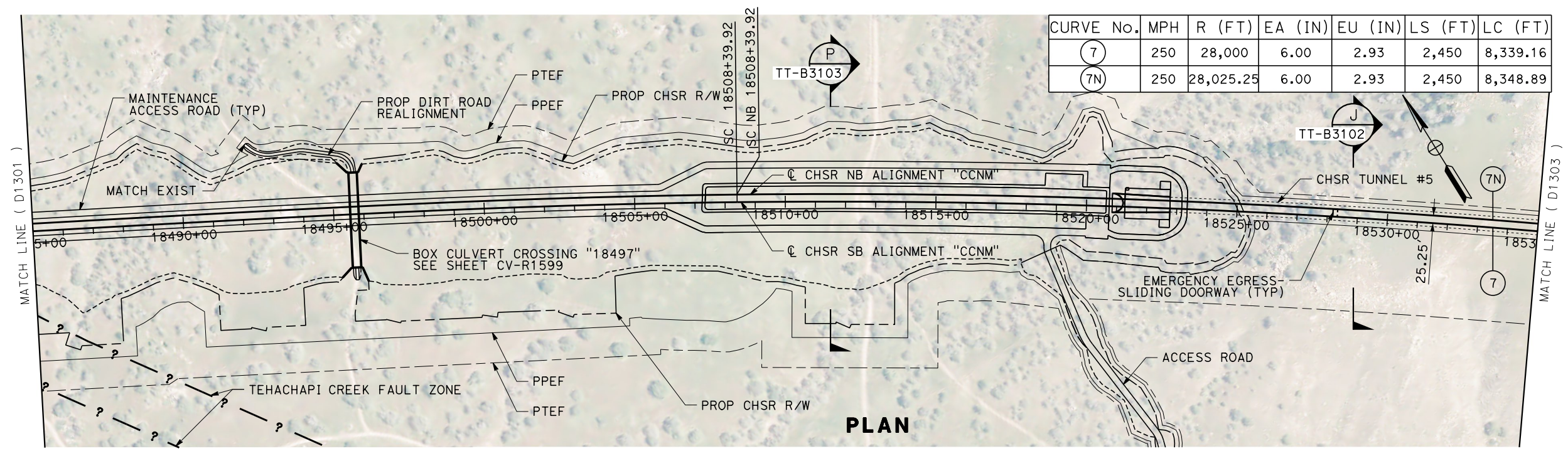
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TRACK GUIDEWAY  
STA 18458+80 TO 18485+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
TT-D1301  
SCALE  
AS SHOWN  
SHEET NO.  
14

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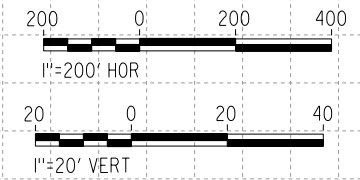


CURVE No.	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
7	250	28,000	6.00	2.93	2,450	8,339.16
7N	250	28,025.25	6.00	2.93	2,450	8,348.89

**PLAN**



**PROFILE**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CARSON**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**S. LANDOLT**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

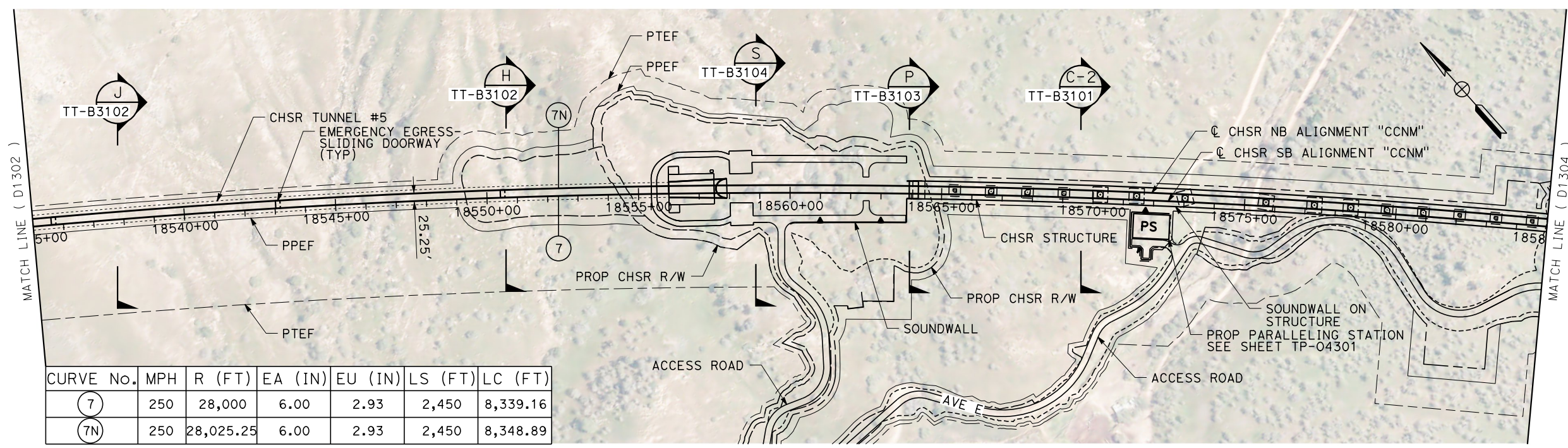
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TRACK GUIDEWAY  
STA 18485+00 TO 18535+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
TT-D1302  
SCALE  
AS SHOWN  
SHEET NO.  
15

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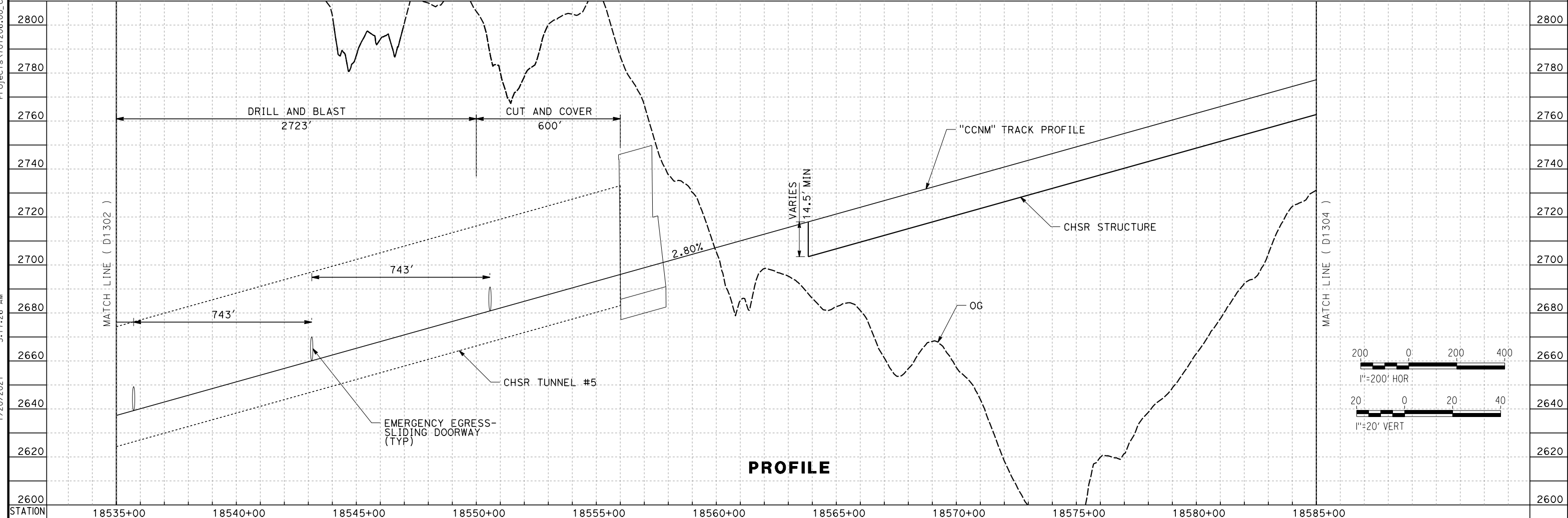
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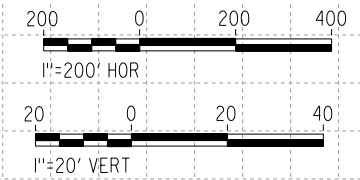


CURVE No.	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
7	250	28,000	6.00	2.93	2,450	8,339.16
7N	250	28,025.25	6.00	2.93	2,450	8,348.89

**PLAN**



**PROFILE**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CARSON**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**S. LANDOLT**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

CCNM DESIGN OPTION  
TRACK GUIDEWAY  
STA 18535+00 TO 18585+00  
PLAN AND PROFILE

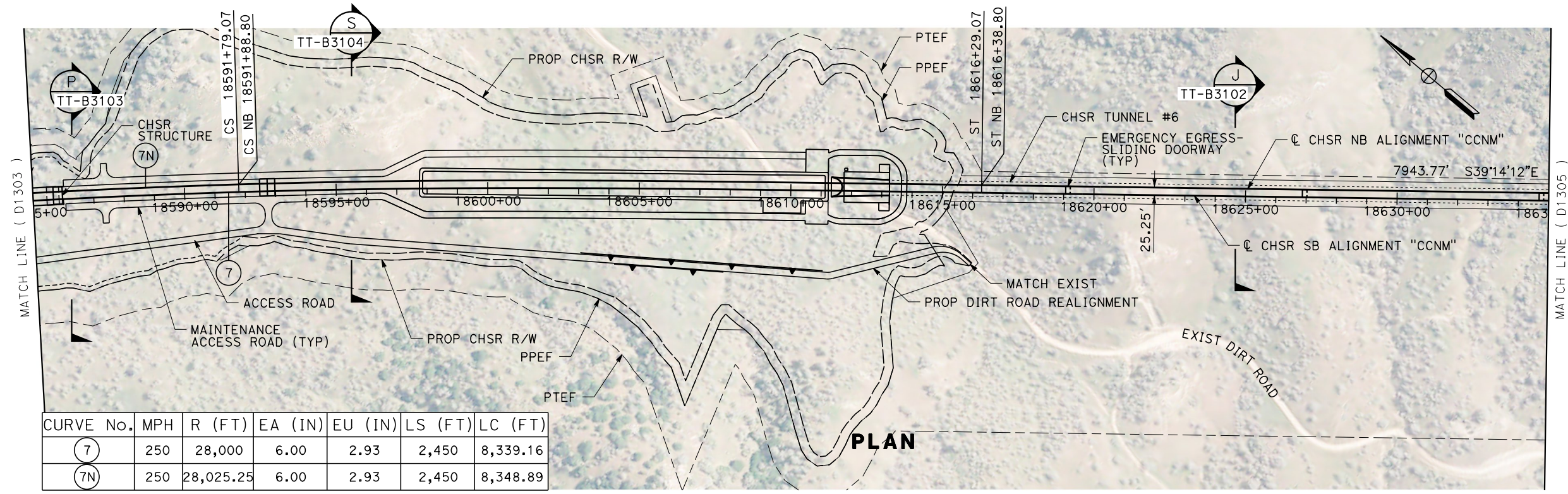
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SCALE  
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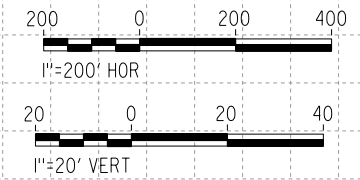
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7N	250	28,025.25	6.00	2.93	2,450	8,348.89



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CARSON**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**S. LANDOLT**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**



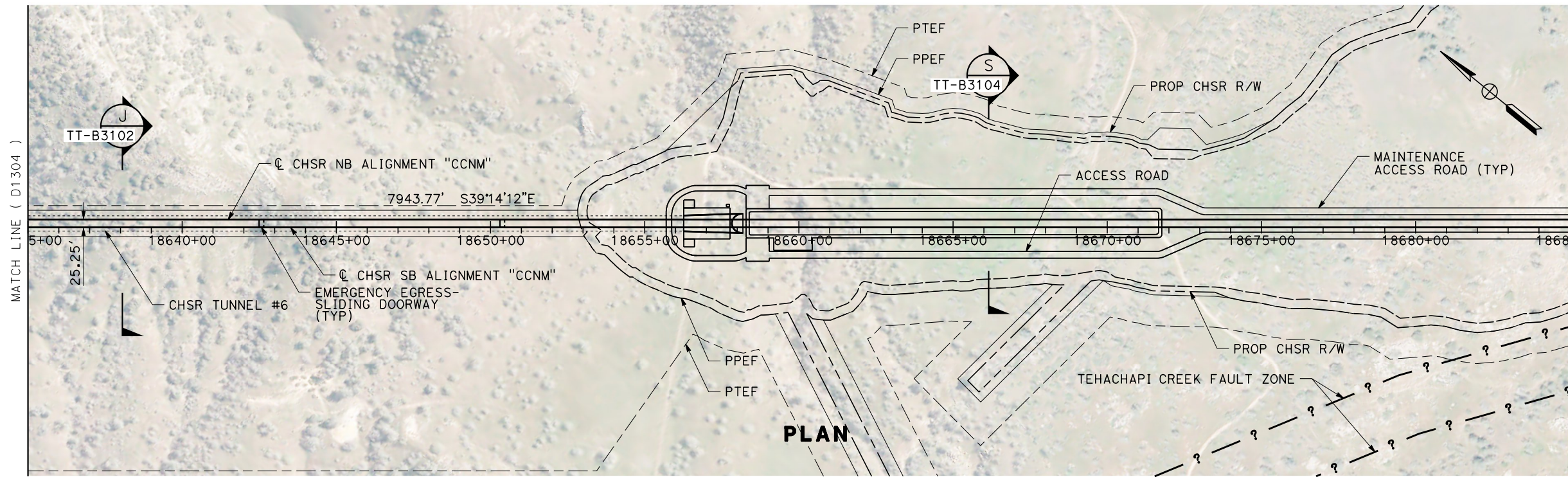
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
TRACK GUIDEWAY  
STA 18585+00 TO 18635+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
TT-D1304  
SCALE  
AS SHOWN  
SHEET NO.  
17

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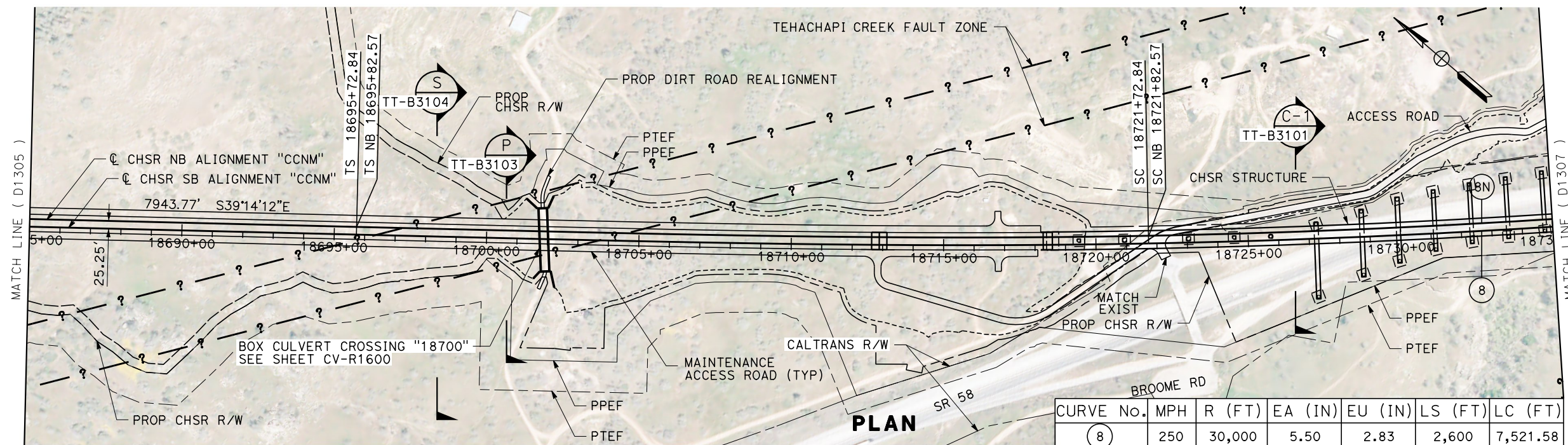
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY <b>A. CARSON</b> DRAWN BY <b>A. RIVERA</b> CHECKED BY <b>S. LANDOLT</b> IN CHARGE <b>G. CAMPBELL</b> DATE <b>01/29/2021</b>	<b>RECORD SET</b> <b>PEPD</b> <b>SUBMITTAL</b>  <b>NOT FOR</b> <b>CONSTRUCTION</b>		
<b>CALIFORNIA HIGH-SPEED RAIL PROJECT</b> <b>BAKERSFIELD TO PALMDALE</b> CCNM DESIGN OPTION TRACK GUIDEWAY STA 18635+00 TO 18685+00 PLAN AND PROFILE		CONTRACT NO. HSR13-44 DRAWING NO. TT-D1305 SCALE AS SHOWN SHEET NO. 18	

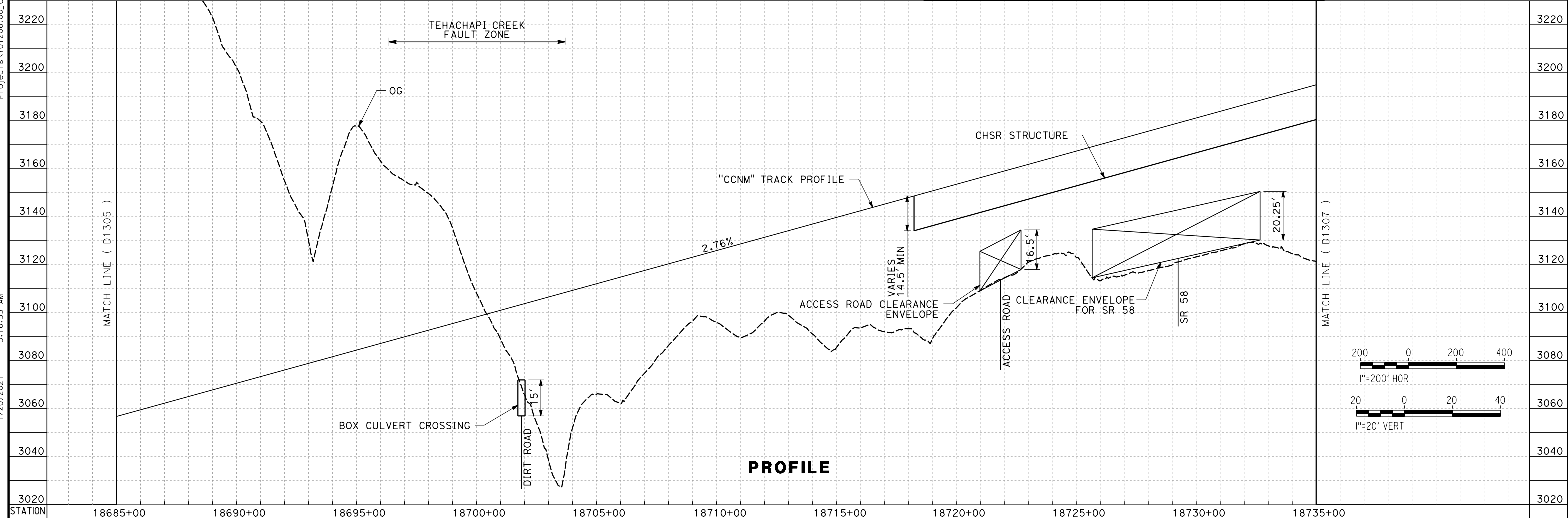
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1/20/2021 3:16:53 AM

ics\_user\_17609



CURVE NO.	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
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8N	250	29,974.75	5.50	2.83	2,600	7,513.06

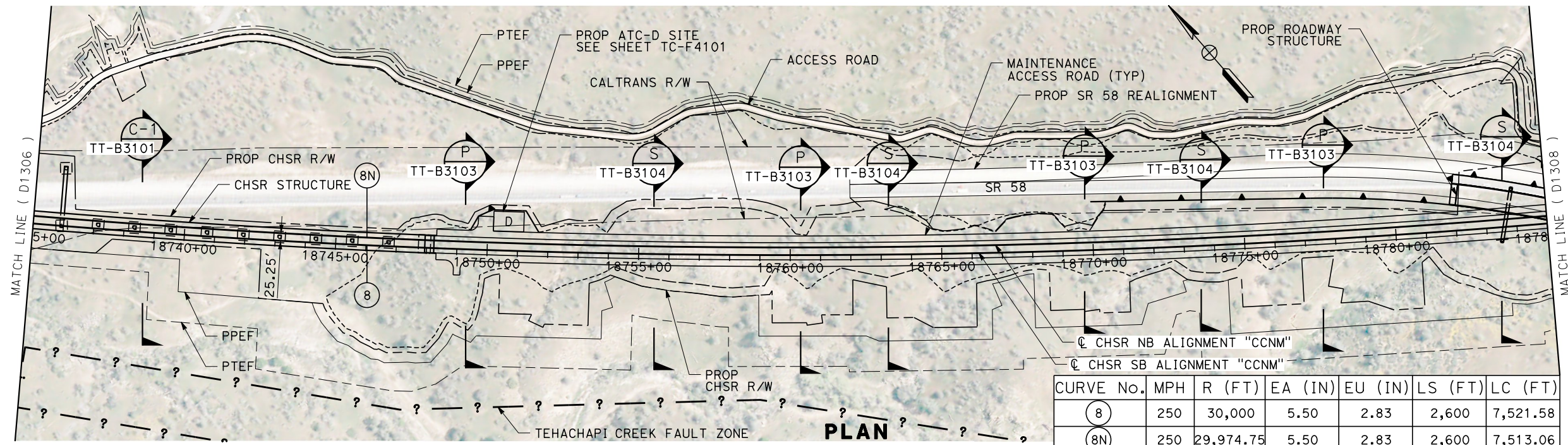


STATION	18685+00	18690+00	18695+00	18700+00	18705+00	18710+00	18715+00	18720+00	18725+00	18730+00	18735+00		
DESIGNED BY	A. CARSON												
DRAWN BY	A. RIVERA												
CHECKED BY	S. LANDOLT												
IN CHARGE	G. CAMPBELL												
DATE	01/29/2021												
RECORD SET	PEPD SUBMITTAL												
NOT FOR CONSTRUCTION													
TYLIN INTERNATIONAL				<b>CALIFORNIA HIGH-SPEED RAIL PROJECT</b> <b>BAKERSFIELD TO PALMDALE</b> CCNM DESIGN OPTION TRACK GUIDEWAY STA 18685+00 TO 18735+00 PLAN AND PROFILE							CONTRACT NO. HSR13-44 DRAWING NO. TT-D1306 SCALE AS SHOWN SHEET NO. 19		
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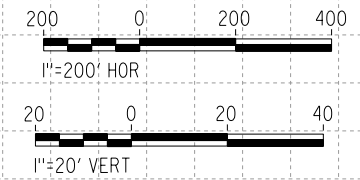
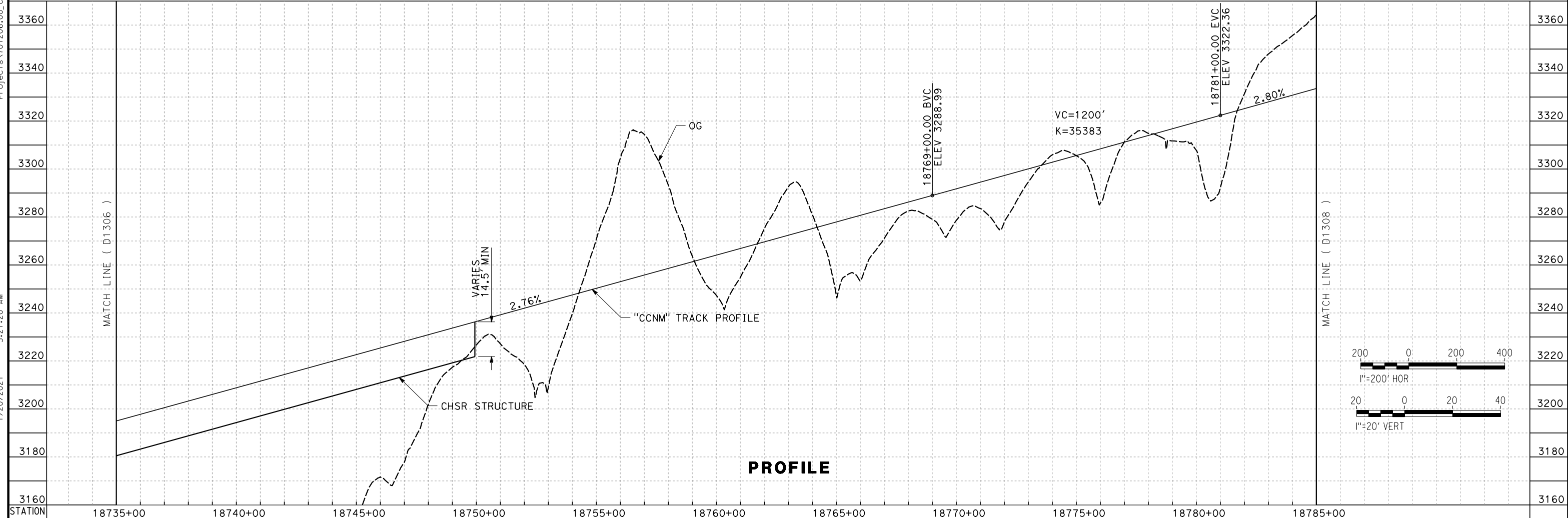
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1/20/2021 3:21:20 AM

ics\_user\_17609



CURVE NO.	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
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8N	250	29,974.75	5.50	2.83	2,600	7,513.06



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CARSON**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**S. LANDOLT**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**



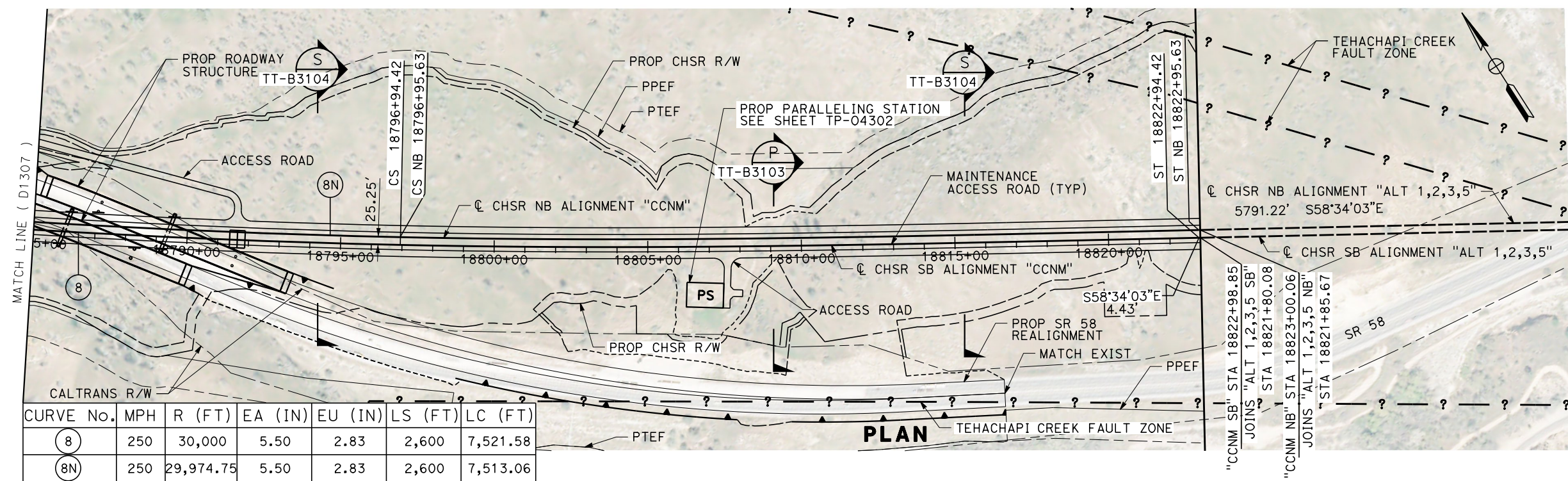
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
TRACK GUIDEWAY  
STA 18735+00 TO 18785+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
TT-D1307  
SCALE  
AS SHOWN  
SHEET NO.  
20

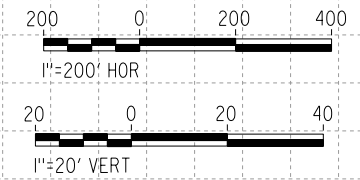
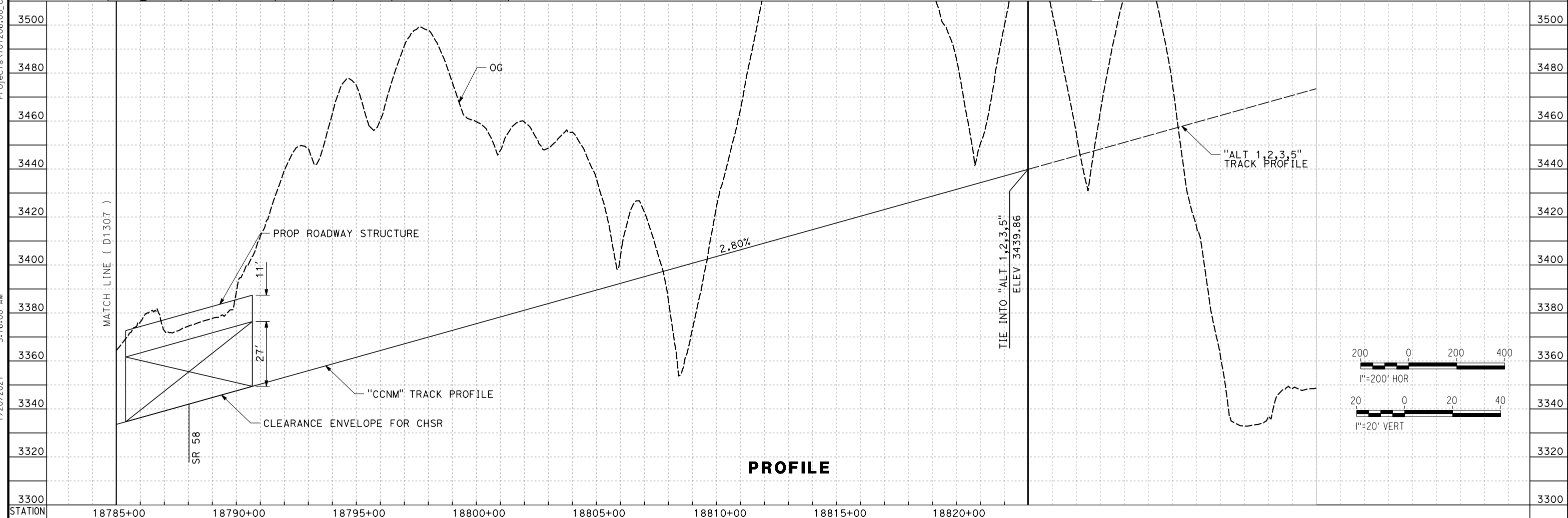
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1/20/2021 3:16:00 AM

\_ics\_user\_17609



CURVE No.	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
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8N	250	29,974.75	5.50	2.83	2,600	7,513.06



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CARSON**

DRAWN BY  
**A. RIVERA**

CHECKED BY  
**S. LANDOLT**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**



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

CCNM DESIGN OPTION  
TRACK GUIDEWAY  
STA 18785+00 TO 18822+99  
PLAN AND PROFILE

CONTRACT NO.  
HSR13-44

DRAWING NO.  
TT-D1308

SCALE  
AS SHOWN

SHEET NO.  
21

**LEGEND:**

**PLAN**

SECTION NUMBER

DRAWING NUMBER

XX CURVE DATA (ALIGNMENTS, ROADWAYS)

XX LINE DATA (ALIGNMENTS, ROADWAYS)

NORTH ARROW

EXIST RIGHT OF WAY

LIMITS OF EXCAVATION (CUT)

LIMITS OF EMBANKMENT (FILL)

FAULT ZONE

EXIST RETAINING WALL

PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT

PROPOSED COLUMN/FOOTING

PROPOSED FENCE

PROPOSED RETAINING WALL

PROPOSED CONCRETE BARRIER

PROPOSED RIGHT OF WAY

PROPOSED TUNNEL

PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT

SRS STANDALONE RADIO SITE

A AUTOMATIC TRAIN CONTROL SYSTEM SITE A

B AUTOMATIC TRAIN CONTROL SYSTEM SITE B

D AUTOMATIC TRAIN CONTROL SYSTEM SITE D

**PLAN**

E AUTOMATIC TRAIN CONTROL SYSTEM SITE E

TRACK CROSSING PANEL

SS SUBSTATION

SWS SWITCHING STATION

PS PARALLELING STATION

**UTILITIES**

w EXISTING AQUEDUCT

e EXISTING ELECTRICAL TRANSMISSION

gs EXISTING GAS LINE

**PROFILE**

ORIGINAL GROUND

PROPOSED GRADE

**GENERAL NOTES**

1. SB TRACK ALIGNMENT STATIONING IS PROVIDED.
2. PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT (PPEF) SHOWN IS LIMIT OF PERMANENT GROUND DISTURBANCE ASSOCIATED WITH THE PROJECT.
3. PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT (PTEF) SHOWN IS LIMIT OF TEMPORARY GROUND DISTURBANCE ASSOCIATED WITH THE PROJECT.
4. ALL UTILITIES ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
5. FOR DETAILED STRUCTURE DEPTH INFORMATION SEE STRUCTURAL PLAN SET.

Projects\701206.00\_CHSRBP\00\_CADD\Sheet Files\CCNM\CV\BP-CV-R0001

e.laina.baldwin@tylin.com 1/13/2021 1:01:20 AM

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**

DRAWN BY  
**D. LOPEZ**

CHECKED BY  
**P. BRAND**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**



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

CCNM DESIGN OPTION  
ROADWAY GENERAL  
SYMBOLS, LEGEND, AND GENERAL NOTES  
SHEET 1 OF 1

CONTRACT NO.  
HSR13-44

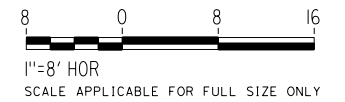
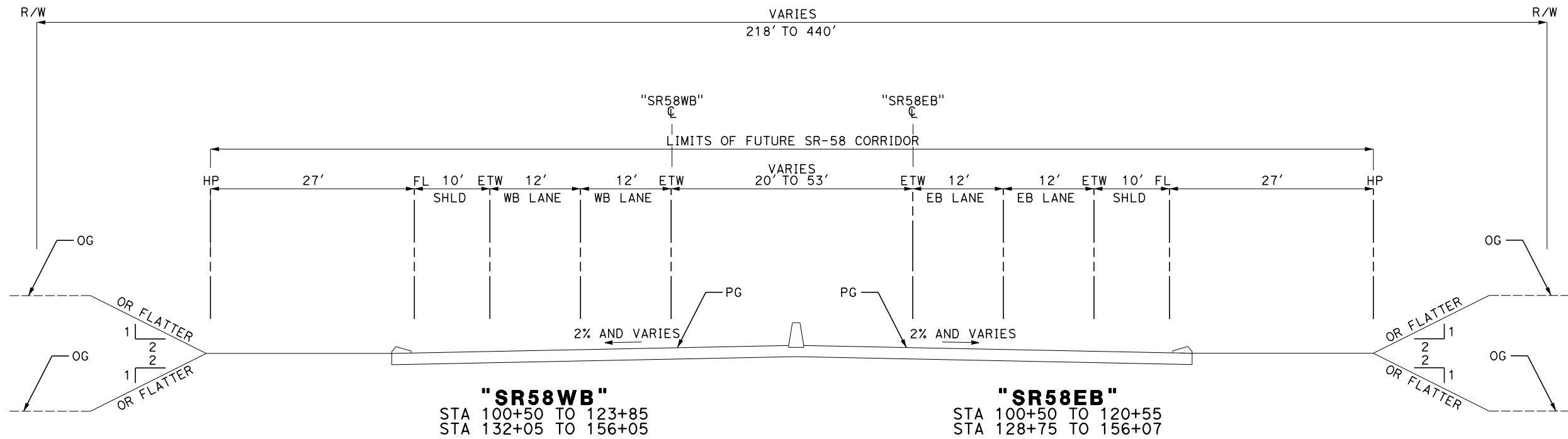
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CV-R0001

SCALE  
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SHEET NO.  
22

Projects\701206.00\_CHSRBP\00\_CADD\Sheet Files\CCNM\CV\BP-CV-R0002

1:05:26 AM  
1/13/2021  
elaina.baldwin@tylin.com



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY GENERAL  
TYPICAL SECTIONS  
SR-58

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**CV-R0002**  
SCALE  
**AS SHOWN**  
SHEET NO.  
**23**

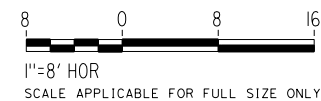
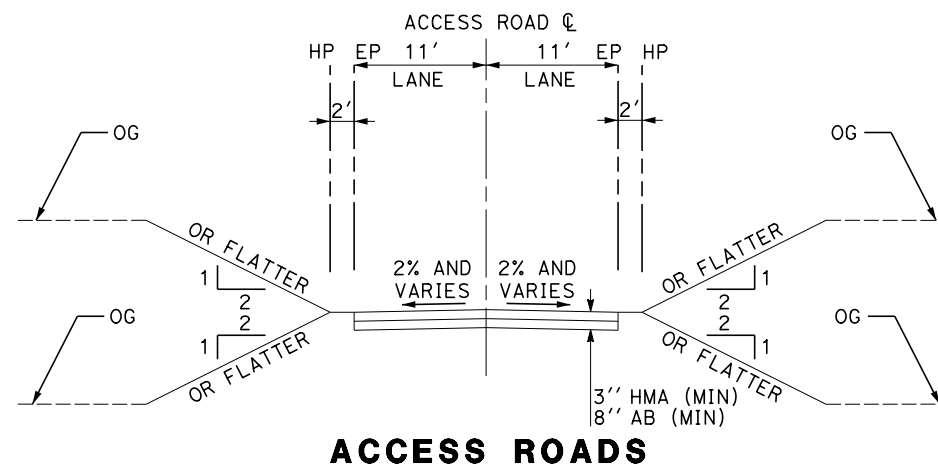
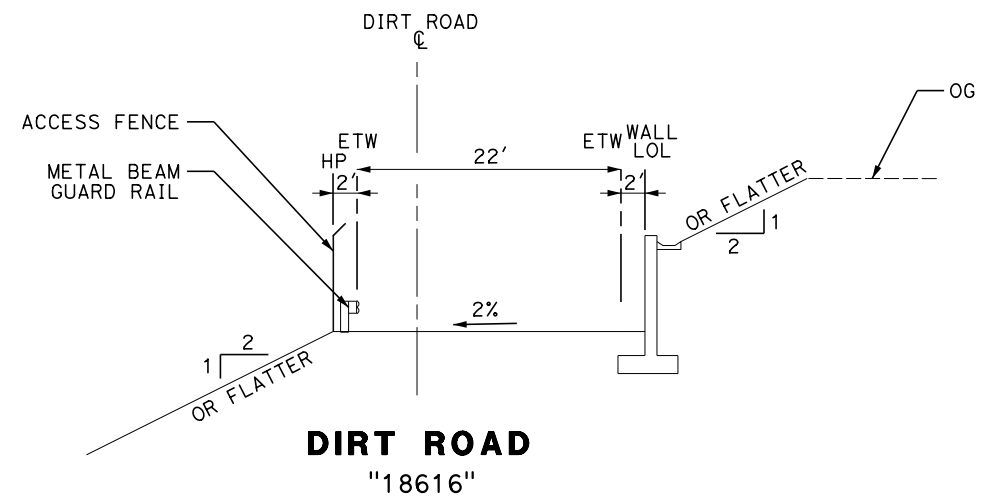
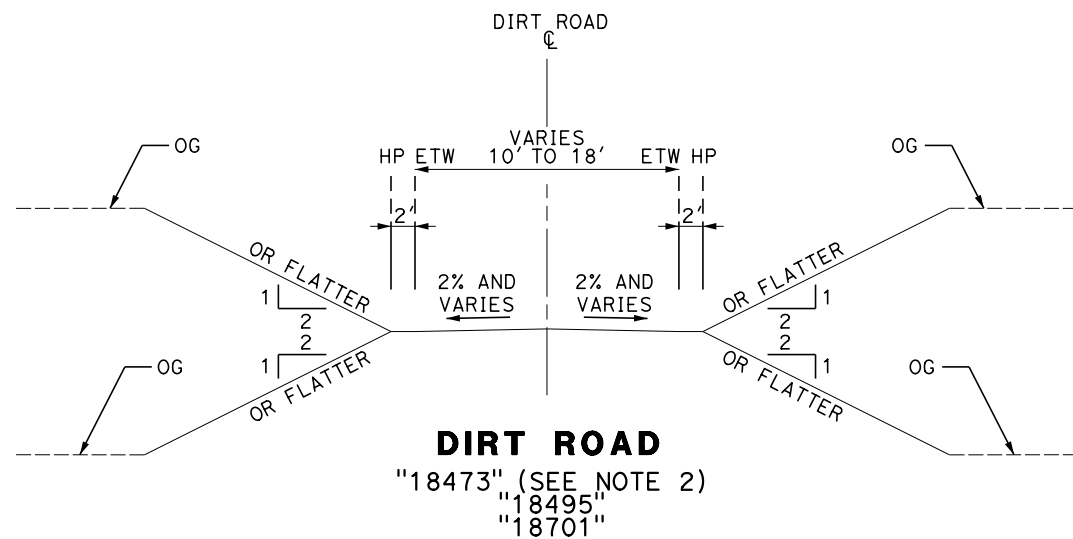
Projects\701206\00\_CHSRBP\00\_CADD\Sheet Files\CCNM\CV\BP-CV-R0003

1:00:04 AM

elaina.baldwin@tylin.com  
1/13/2021

NOTE:

1. DIRT ROADS DESIGNED TO MAINTAIN EXISTING ACCESS AND ARE NOT DESIGNED TO PROVIDE HSR ACCESS.
2. DIRT ROAD "18473" SHALL BE ASPHALT PAVED (3" HMA OVER 8" AB) FROM STATION 15+00 TO 19+50.
3. ACCESS ROAD "18593" SHALL BE PCC PAVED FROM STATION 68+00 TO 80+00.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**

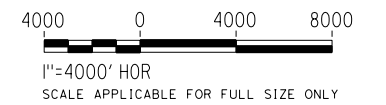
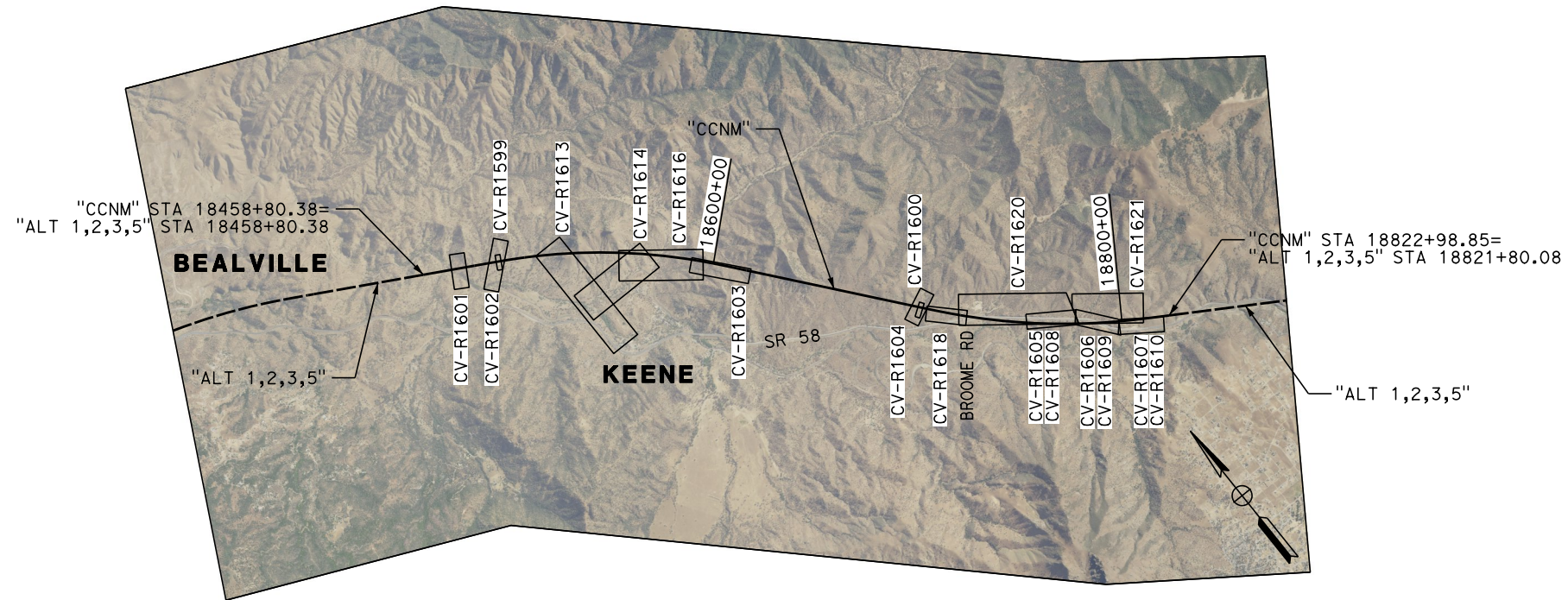
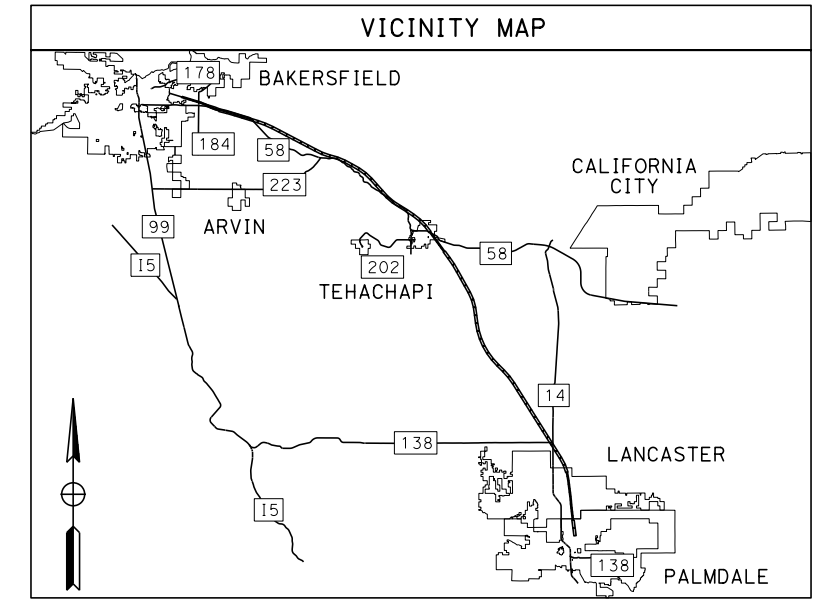


**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY GENERAL  
TYPICAL SECTIONS  
ACCESS ROADS AND DIRT ROADS

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**CV-R0003**  
SCALE  
**AS SHOWN**  
SHEET NO.  
**24**



# CCNM DESIGN OPTION



Projects\701206.00\_CHSRBP\00\_CADD\Sheet Files\CCNM\CV\BP-CV-R0004

1:03:39 AM

e.laina.baldwin@tylin.com  
1/13/2021

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



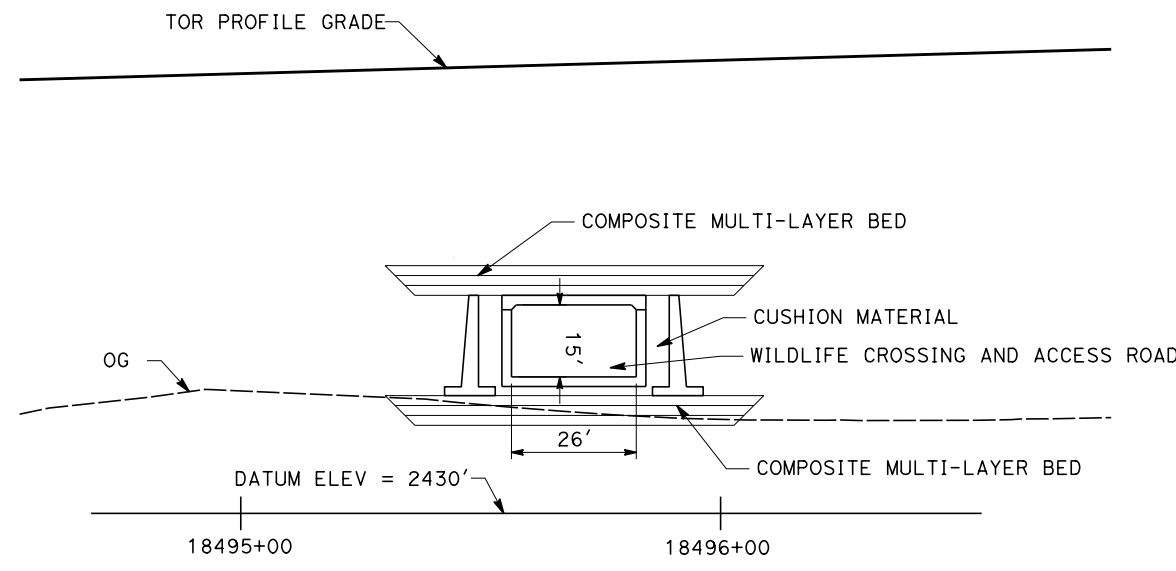
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
ROADWAY GENERAL  
KEY MAP  
SHEET 1 OF 1

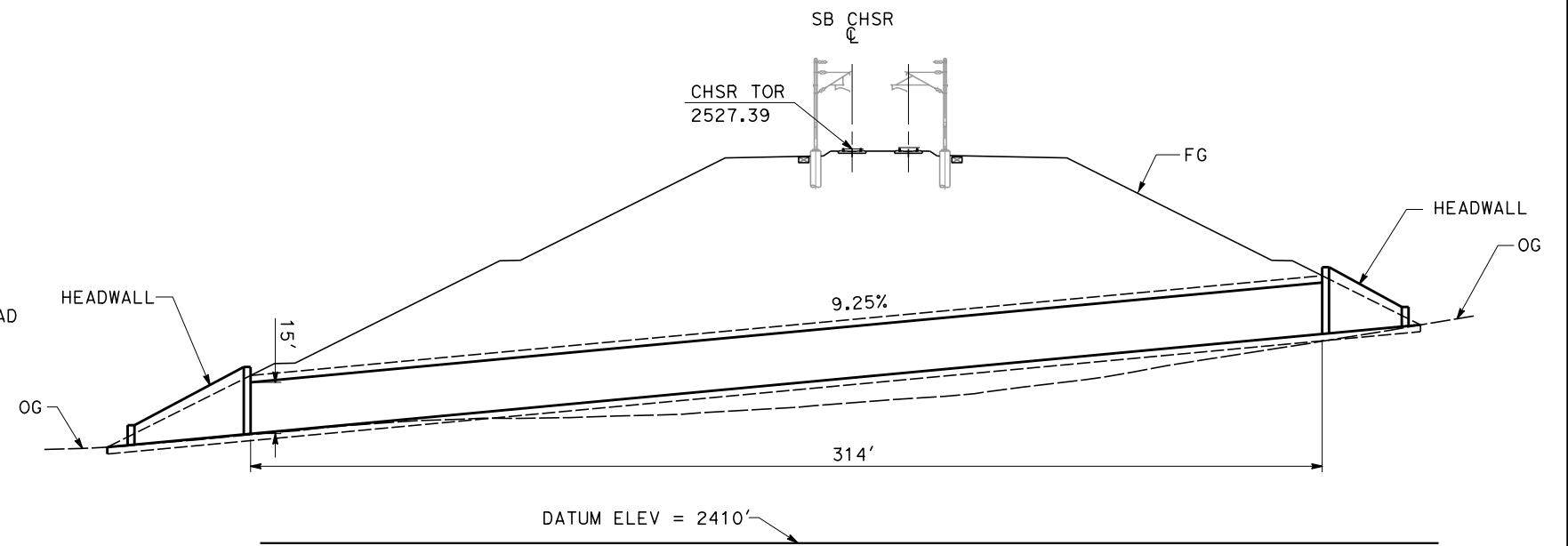
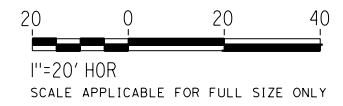
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HSR13-44  
DRAWING NO.  
CV-R0004  
SCALE  
AS SHOWN  
SHEET NO.  
25

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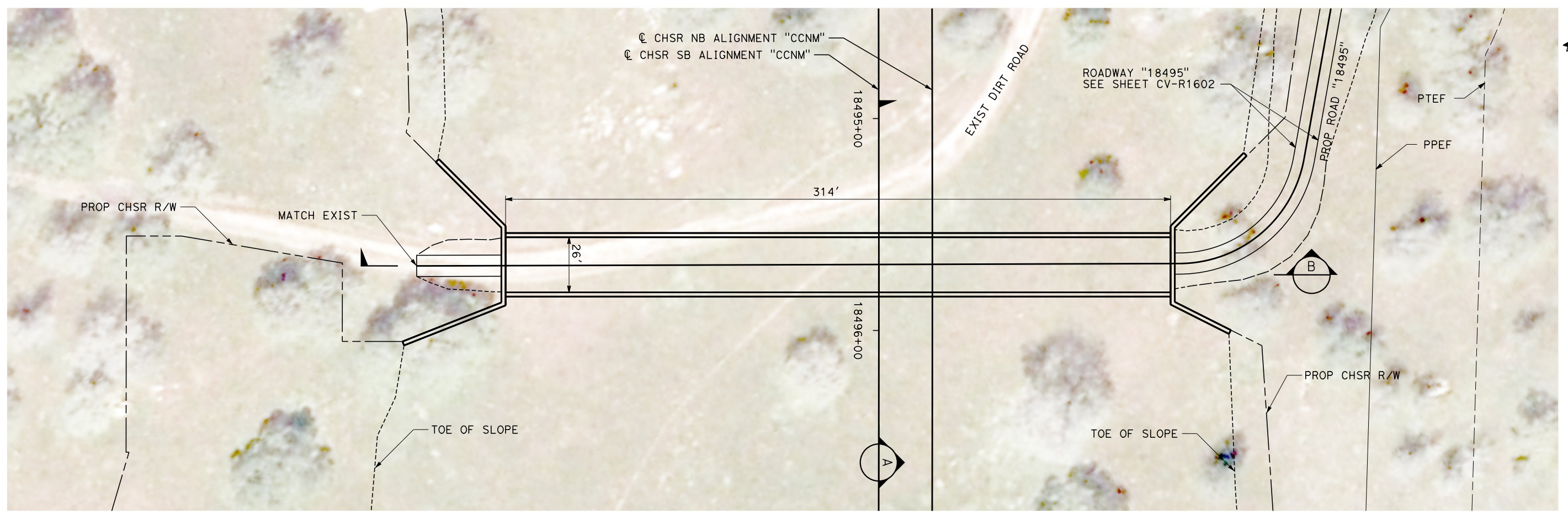
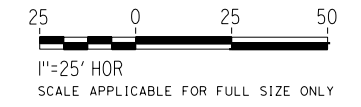
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**SECTION A**  
SCALE 1" = 20'



**SECTION B**  
SCALE 1" = 25'



**PLAN**  
SCALE 1" = 25' HOR  
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. MEREDITH**  
DRAWN BY  
**J. MEREDITH**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**

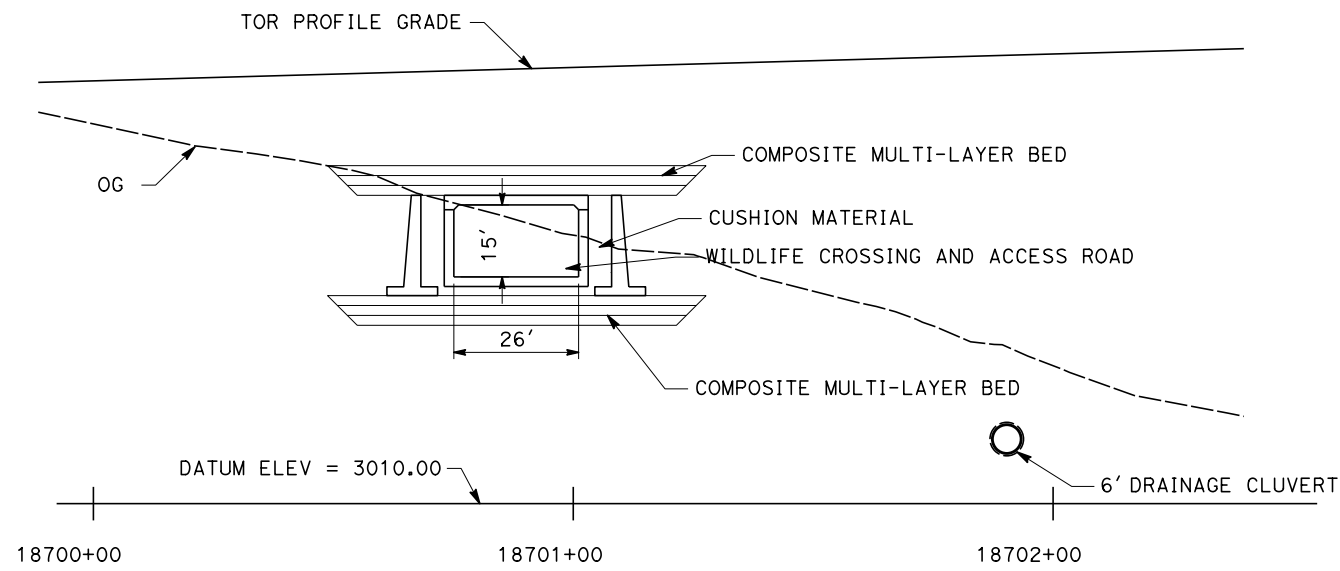


**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY  
BOX CULVERT CROSSING "18497"  
PLAN AND SECTIONS

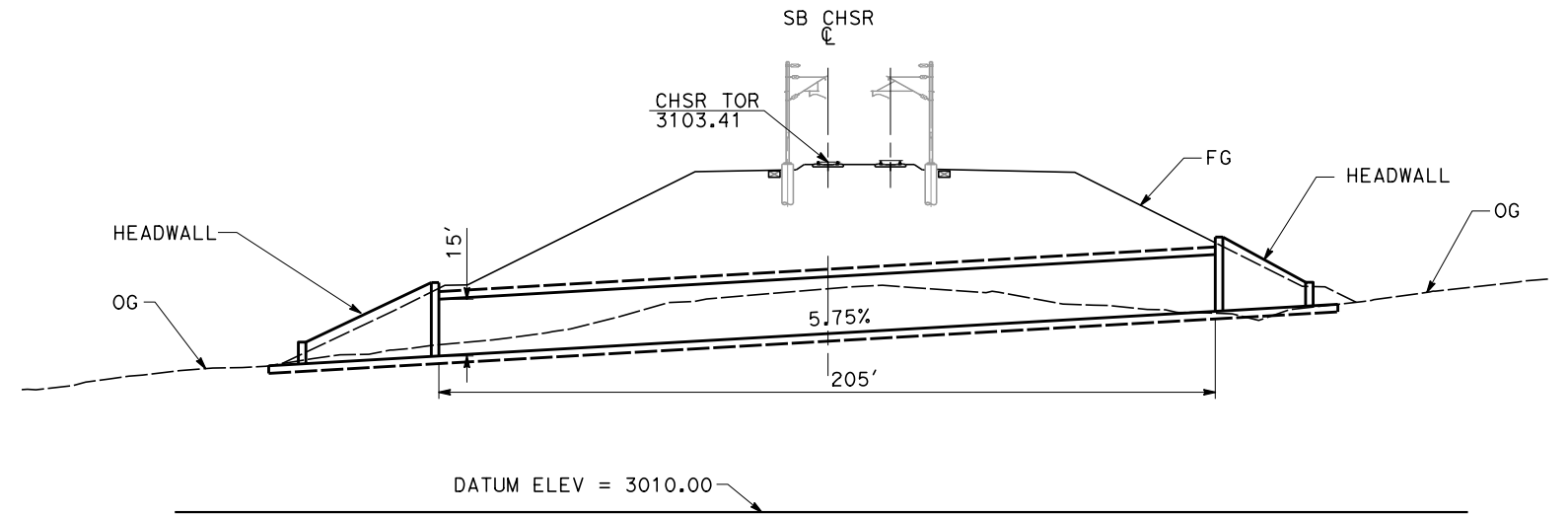
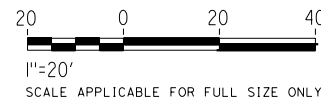
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HSR13-44  
DRAWING NO.  
CV-R1599  
SCALE  
AS SHOWN  
SHEET NO.  
26

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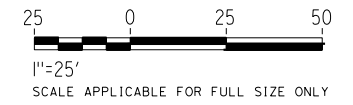
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**SECTION A**  
SCALE 1" = 20'



**SECTION B**  
SCALE 1" = 25'



**PLAN**  
1" = 25'  
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. MEREDITH**  
DRAWN BY  
**J. MEREDITH**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

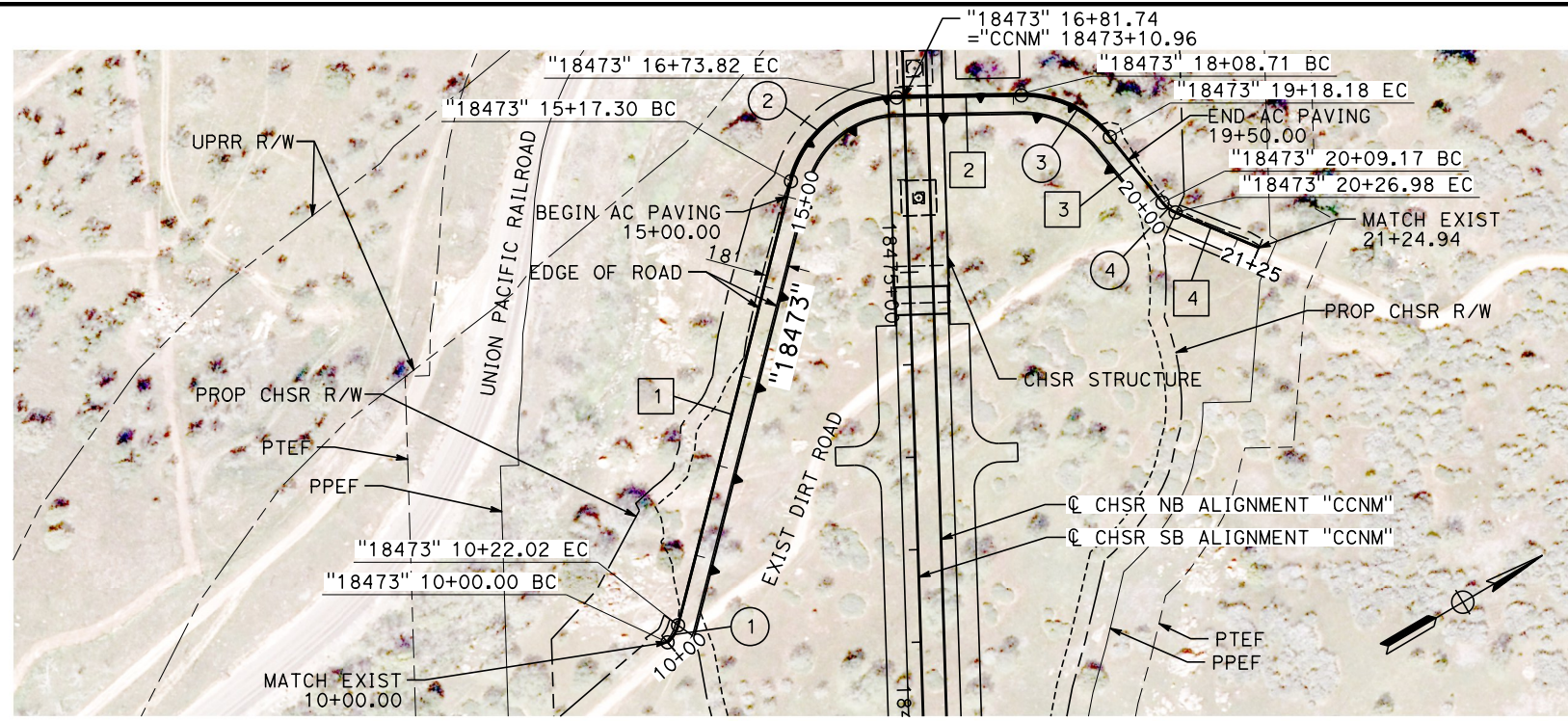
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY  
BOX CULVERT CROSSING "18700"  
PLAN AND SECTIONS

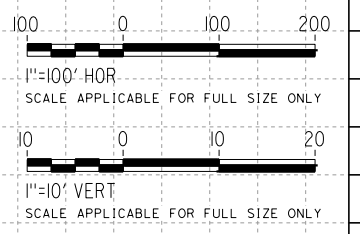
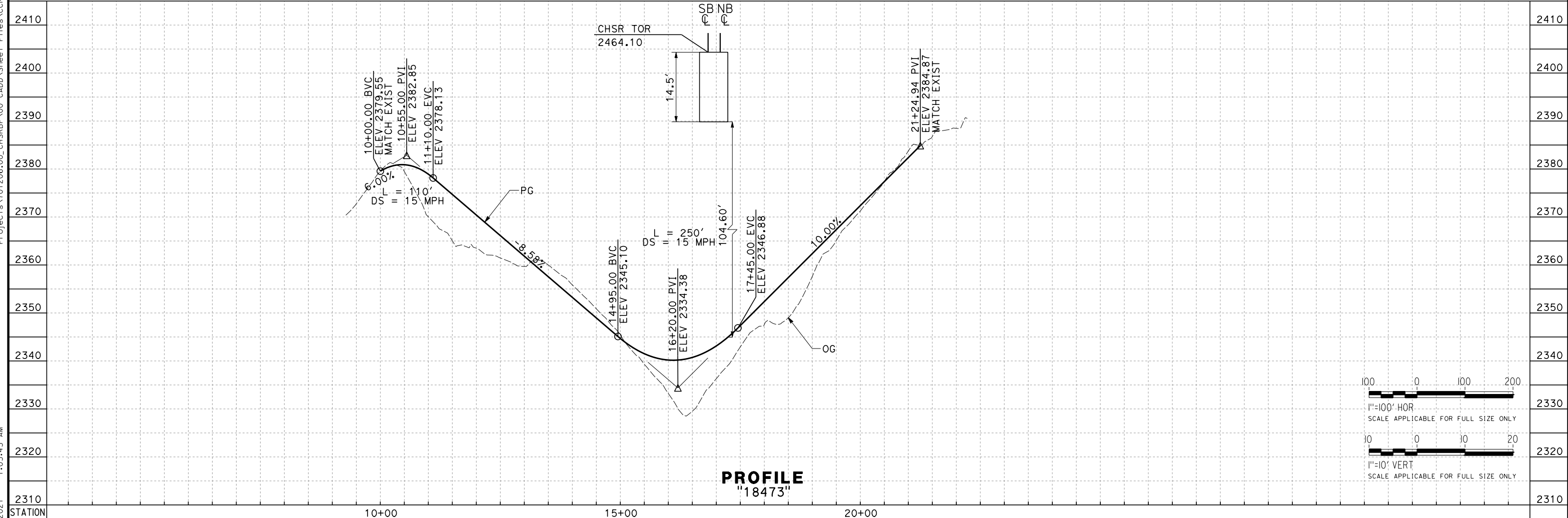
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HSR13-44  
DRAWING NO.  
CV-R1600  
SCALE  
AS SHOWN  
SHEET NO.  
27

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 1/13/2021 1:05:43 AM  
 elaina.baldwin@tylin.com



LINE DATA		
No.	BEARING	DISTANCE
1	N 45°16'12" W	495.28'
2	N 29°27'40" E	134.89'
3	N 81°43'49" E	90.99'
4	N 53°22'37" E	97.96'

CURVE DATA				
No.	R	Δ	T	L
1	36.00'	35°02'41"	11.37'	22.02'
2	120.00'	74°43'52"	91.63'	156.52'
3	120.00'	52°16'09"	58.88'	109.47'
4	36.00'	28°21'11"	9.09'	17.82'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
 DRAWN BY  
**D. LOPEZ**  
 CHECKED BY  
**P. BRAND**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

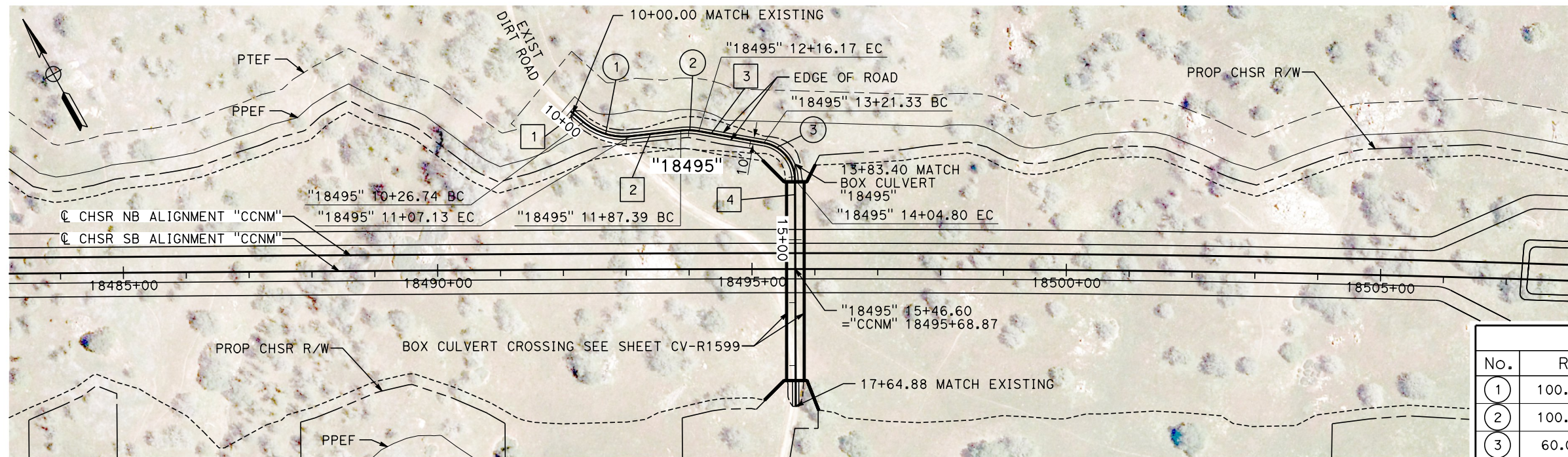
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**PEPD**  
**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 ROADWAY  
 DIRT ROAD "18473"  
 PLAN AND PROFILE

CONTRACT NO.  
**HSR13-44**  
 DRAWING NO.  
**CV-R1601**  
 SCALE  
**AS SHOWN**  
 SHEET NO.  
**28**

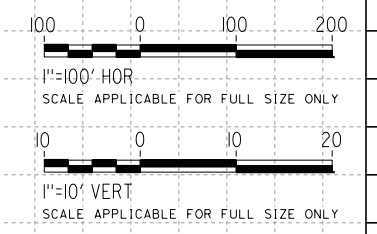
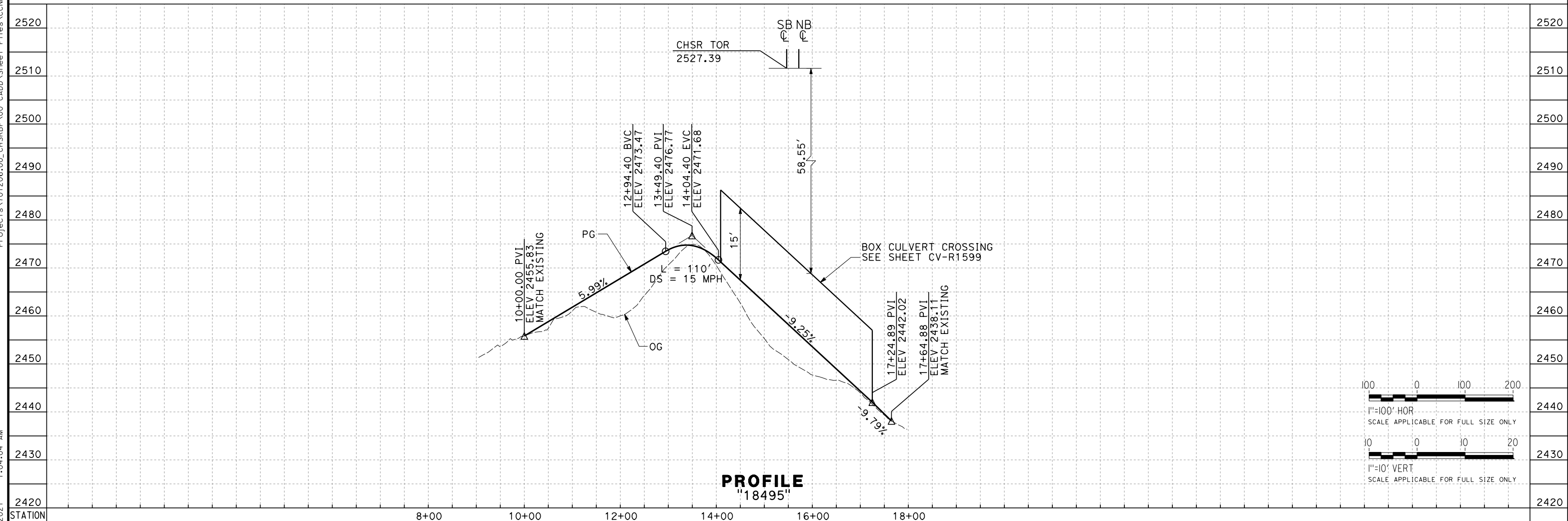
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 1/13/2021 1:04:04 AM  
 elaina.baldwin@tylin.com



LINE DATA		
No.	BEARING	DISTANCE
1	S 21°12'22" E	26.74'
2	S 67°15'58" E	88.23'
3	S 50°46'24" E	113.13'
4	S 28°55'43" W	359.97'

CURVE DATA				
No.	R	Δ	T	L
1	100.00'	46°03'36"	42.51'	80.39'
2	100.00'	16°29'34"	14.49'	28.79'
3	60.00'	79°42'06"	50.08'	83.46'

**PLAN**



**PROFILE**  
"18495"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
 DRAWN BY  
**D. LOPEZ**  
 CHECKED BY  
**P. BRAND**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

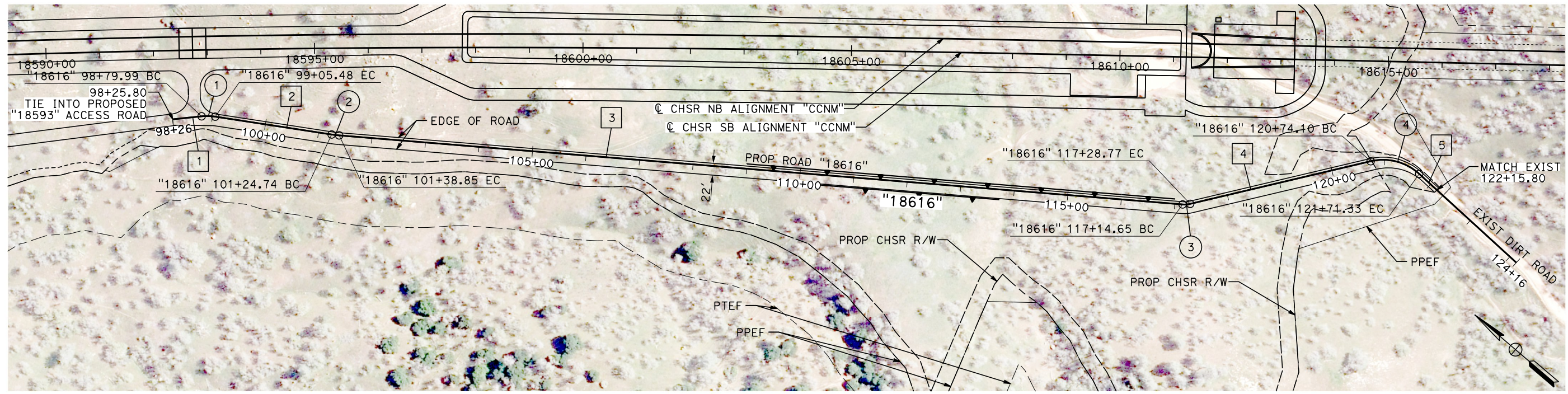
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**PEPD**  
**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 ROADWAY  
 DIRT ROAD "18495"  
 PLAN AND PROFILE

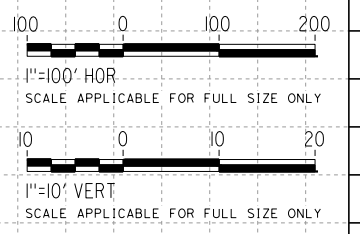
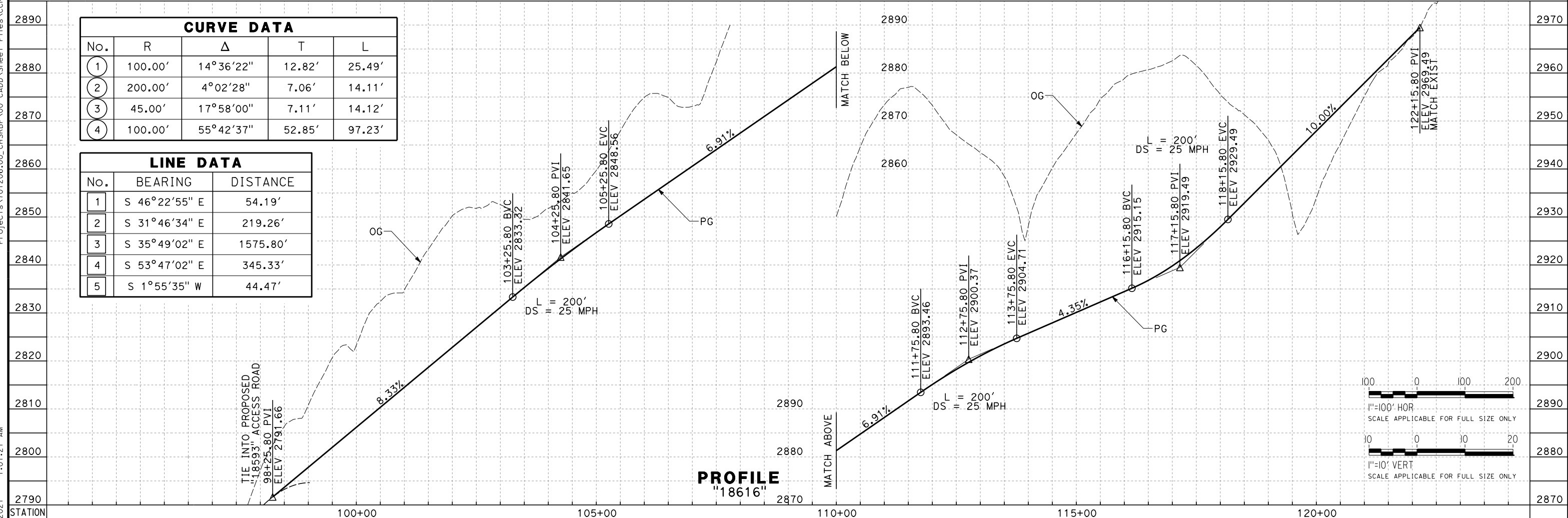
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HSR13-44  
 DRAWING NO.  
CV-R1602  
 SCALE  
AS SHOWN  
 SHEET NO.  
29

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 1:01:21 AM  
 1/13/2021  
 elaina.baldwin@tylin.com



CURVE DATA				
No.	R	Δ	T	L
1	100.00'	14°36'22"	12.82'	25.49'
2	200.00'	4°02'28"	7.06'	14.11'
3	45.00'	17°58'00"	7.11'	14.12'
4	100.00'	55°42'37"	52.85'	97.23'

LINE DATA		
No.	BEARING	DISTANCE
1	S 46°22'55" E	54.19'
2	S 31°46'34" E	219.26'
3	S 35°49'02" E	1575.80'
4	S 53°47'02" E	345.33'
5	S 1°55'35" W	44.47'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
 DRAWN BY  
**D. LOPEZ**  
 CHECKED BY  
**P. BRAND**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

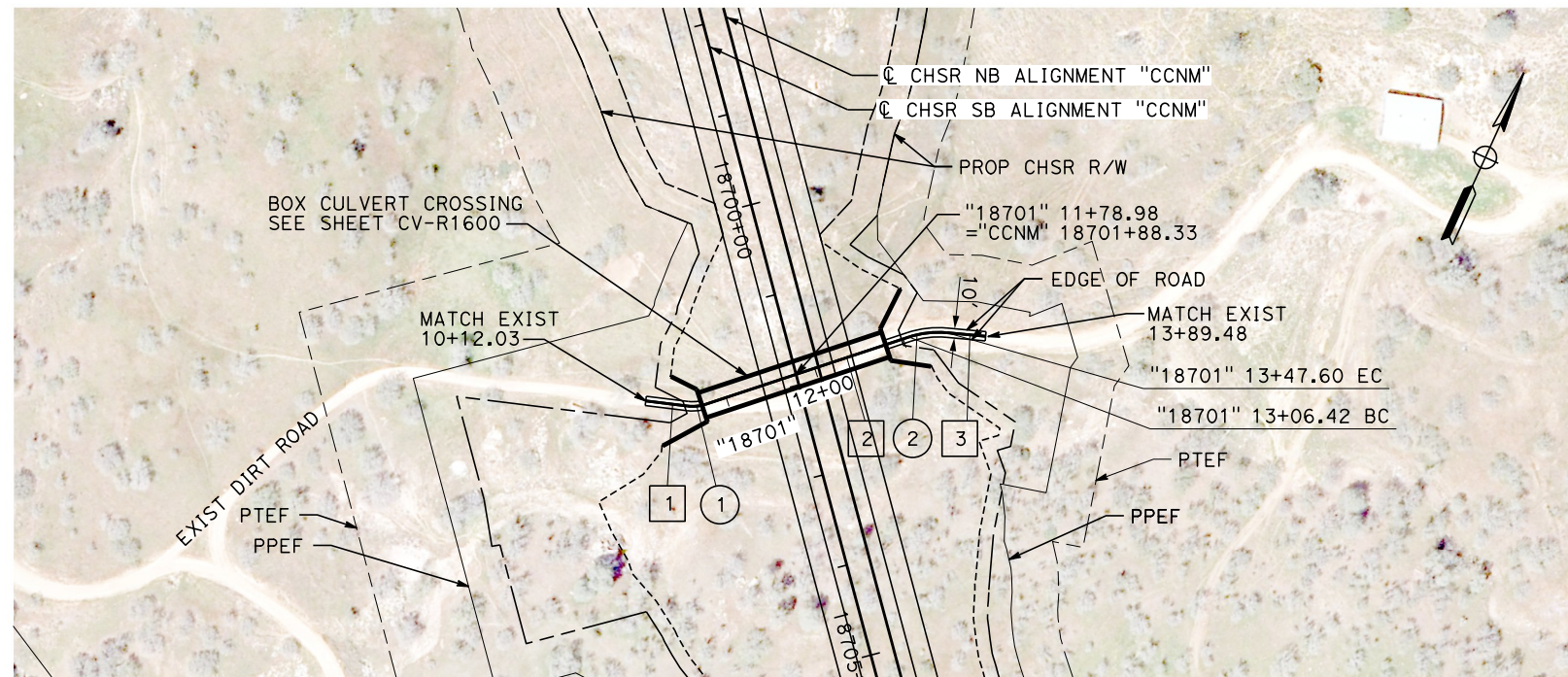
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**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 ROADWAY  
 DIRT ROAD "18616"  
 PLAN AND PROFILE

CONTRACT NO.  
**HSR13-44**  
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**CV-R1603**  
 SCALE  
**AS SHOWN**  
 SHEET NO.  
**30**

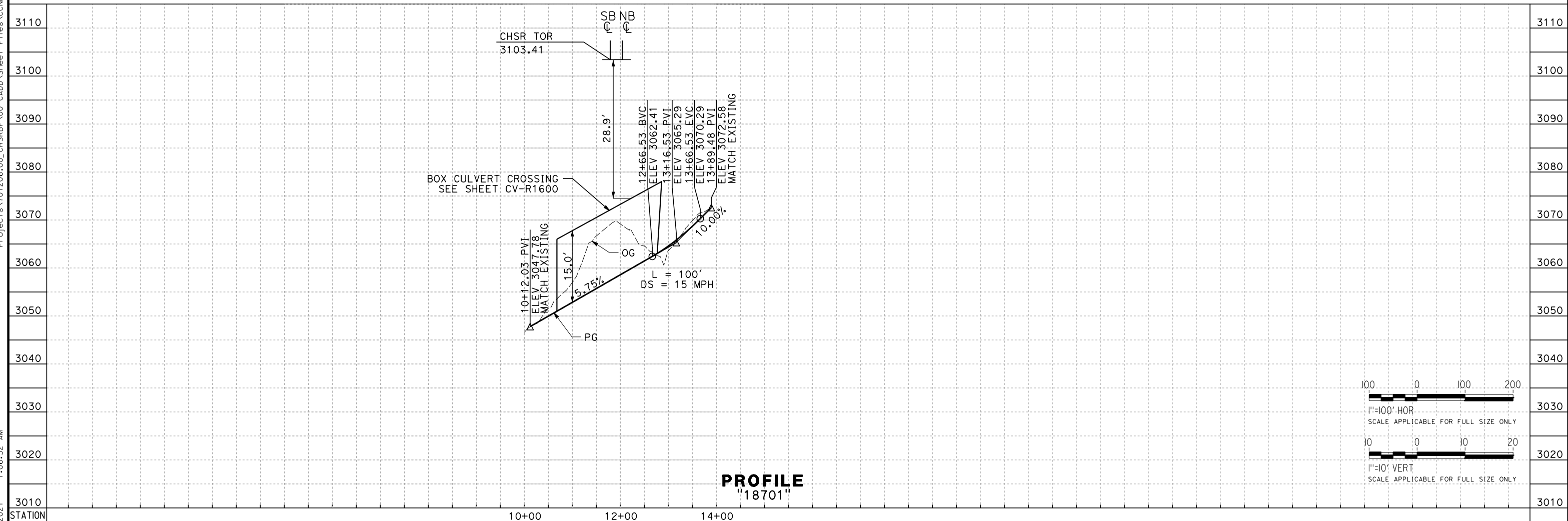
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 1/13/2021  
 elaina.baldwin@tylin.com



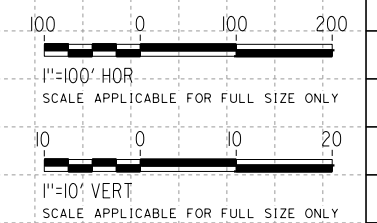
LINE DATA		
No.	BEARING	DISTANCE
1	N 72°34'43" E	45.16'
2	N 47°14'53" E	229.34'
3	N 70°50'40" E	41.88'

CURVE DATA				
No.	R	Δ	T	L
1	45.00'	25°19'50"	10.11'	19.90'
2	100.00'	23°35'47"	20.89'	41.18'

**PLAN**



**PROFILE**  
"18701"



REV	DATE	BY	CHK	APP	DESCRIPTION

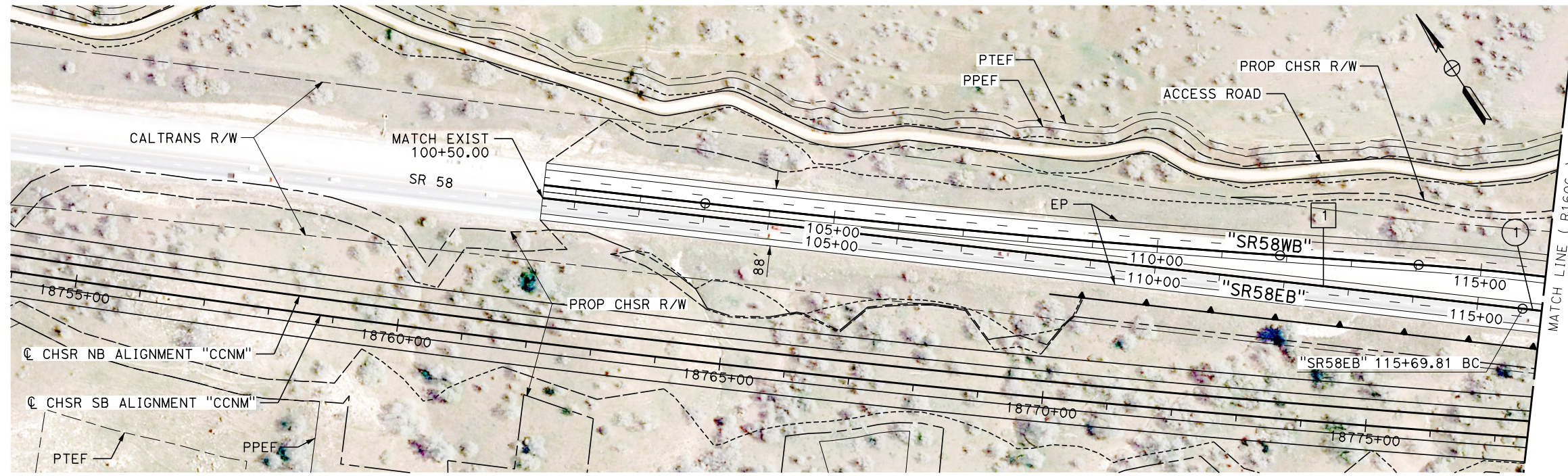
DESIGNED BY  
**A. RIVERA**  
 DRAWN BY  
**D. LOPEZ**  
 CHECKED BY  
**P. BRAND**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 ROADWAY  
 DIRT ROAD "18701"  
 PLAN AND PROFILE

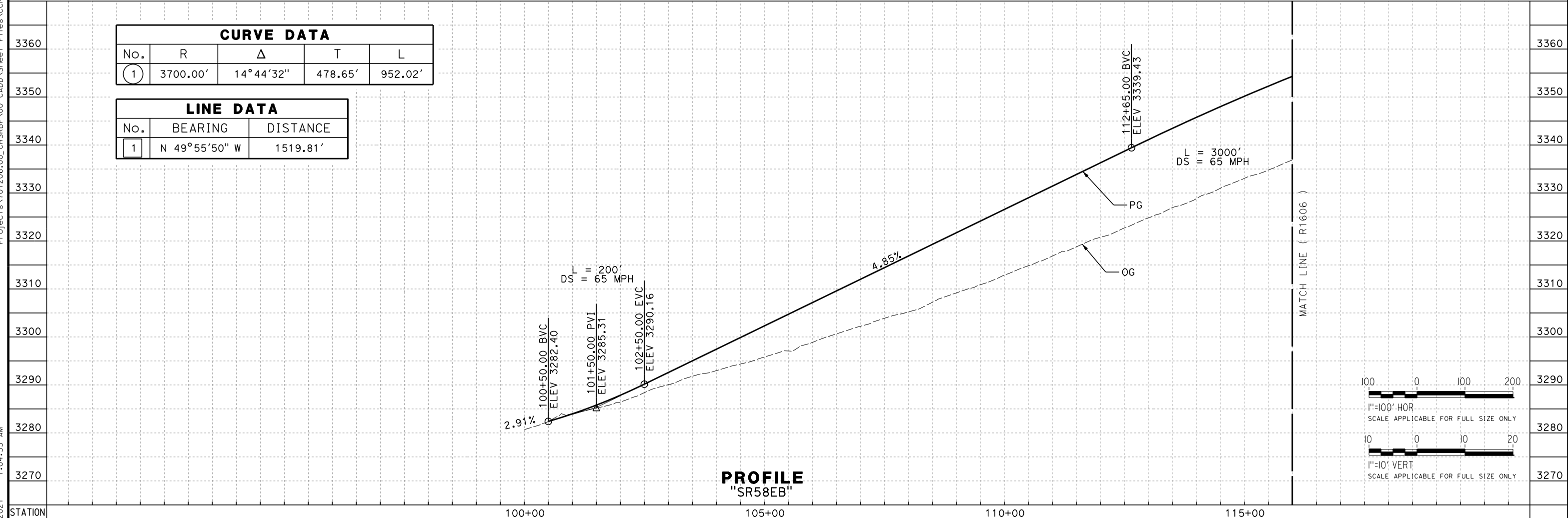
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**AS SHOWN**  
 SHEET NO.  
**31**



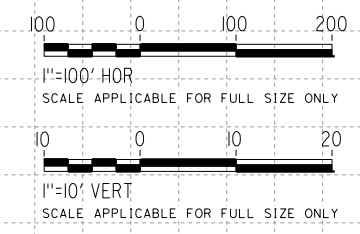
**PLAN**

CURVE DATA				
No.	R	Δ	T	L
1	3700.00'	14°44'32"	478.65'	952.02'

LINE DATA		
No.	BEARING	DISTANCE
1	N 49°55'50" W	1519.81'



**PROFILE**  
"SR58EB"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**

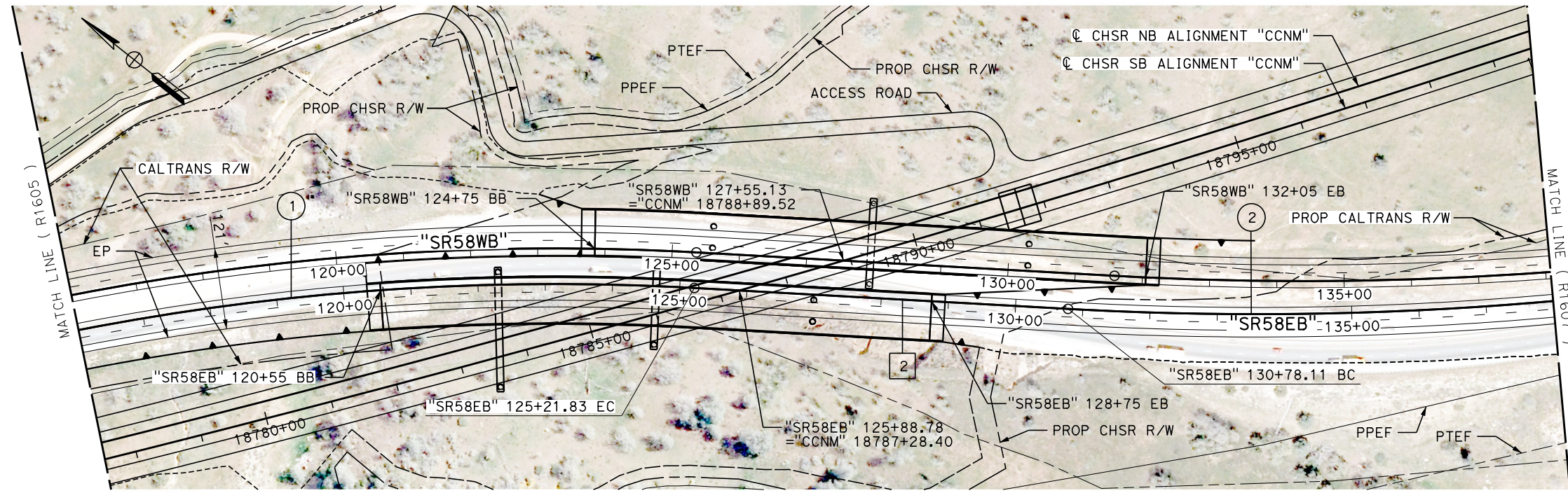


**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY  
EASTBOUND STATE ROUTE 58  
PLAN AND PROFILE

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
CV-R1605  
SCALE  
AS SHOWN  
SHEET NO.  
**32**

Projects\01206\00\_CHSRBP\00\_CADD\Sheet\_Files\CCNM\CV\BP-CV-R1605  
 1:04:33 AM  
 1/13/2021  
 elaina.baldwin@tylin.com

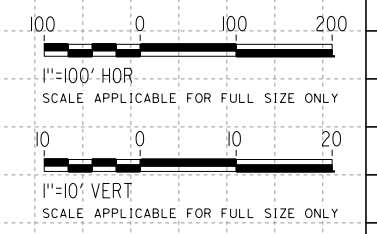
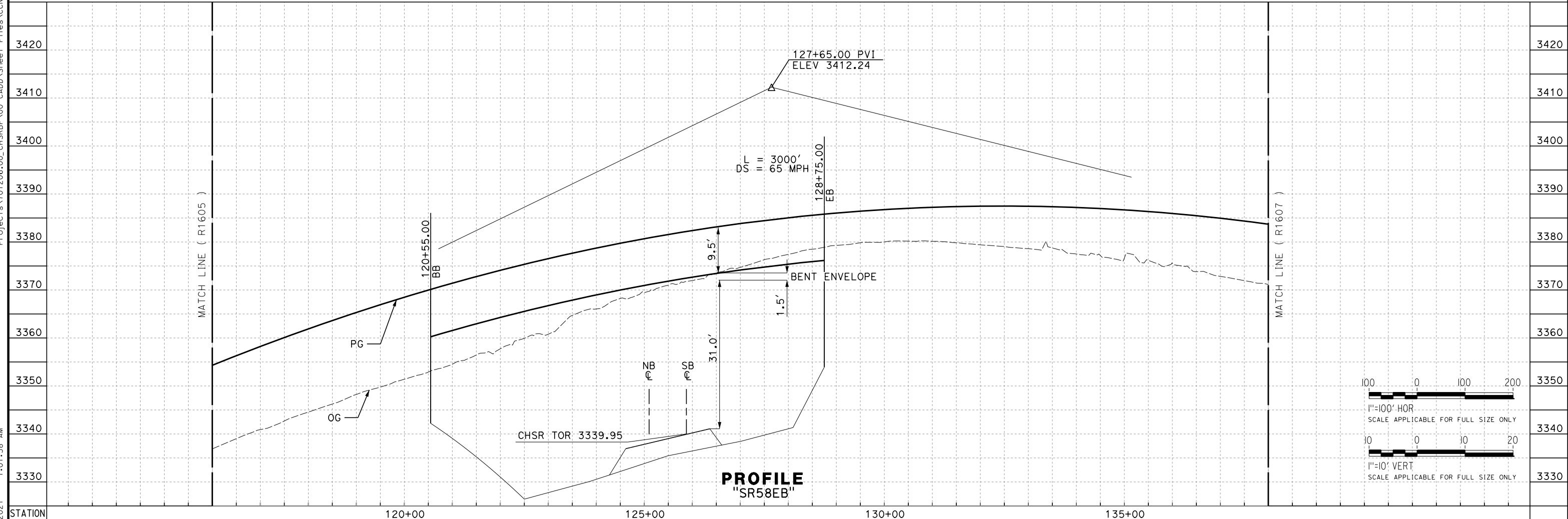




CURVE DATA				
No.	R	Δ	T	L
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2	5000.00'	25°02'13"	1110.17'	2184.89'

LINE DATA		
No.	BEARING	DISTANCE
2	S 35°11'18" E	556.28'

**PLAN**



**PROFILE**  
"SR58EB"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

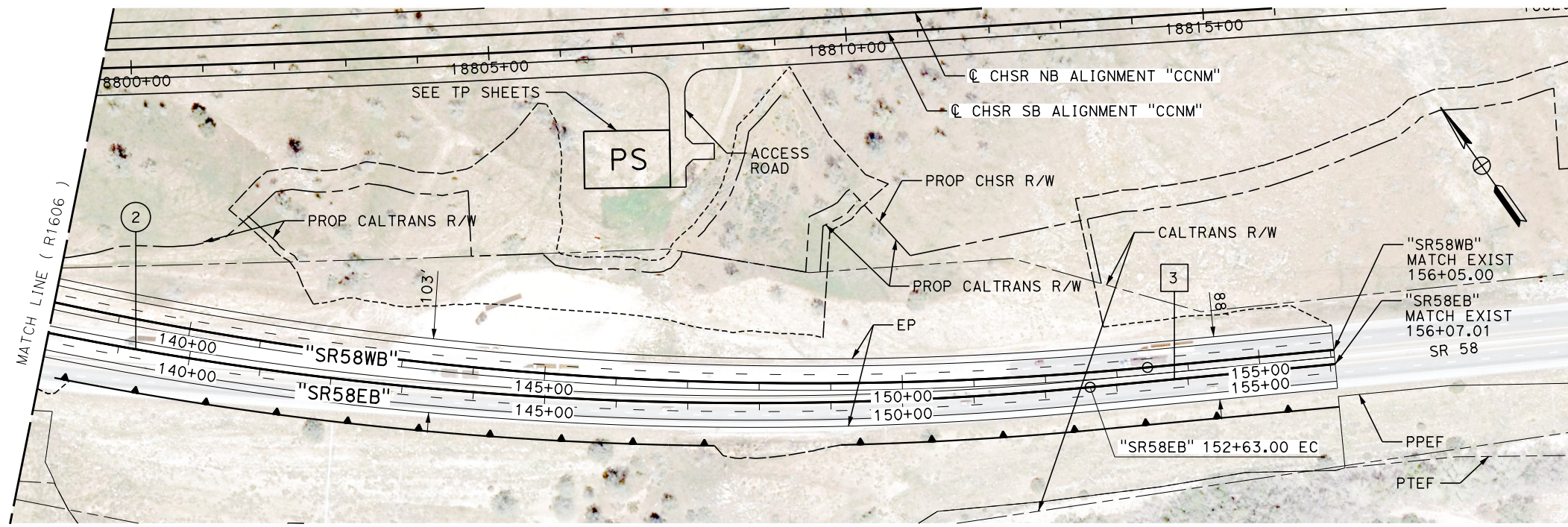
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**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY  
EASTBOUND STATE ROUTE 58  
PLAN AND PROFILE

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
CV-R1606  
SCALE  
AS SHOWN  
SHEET NO.  
**33**

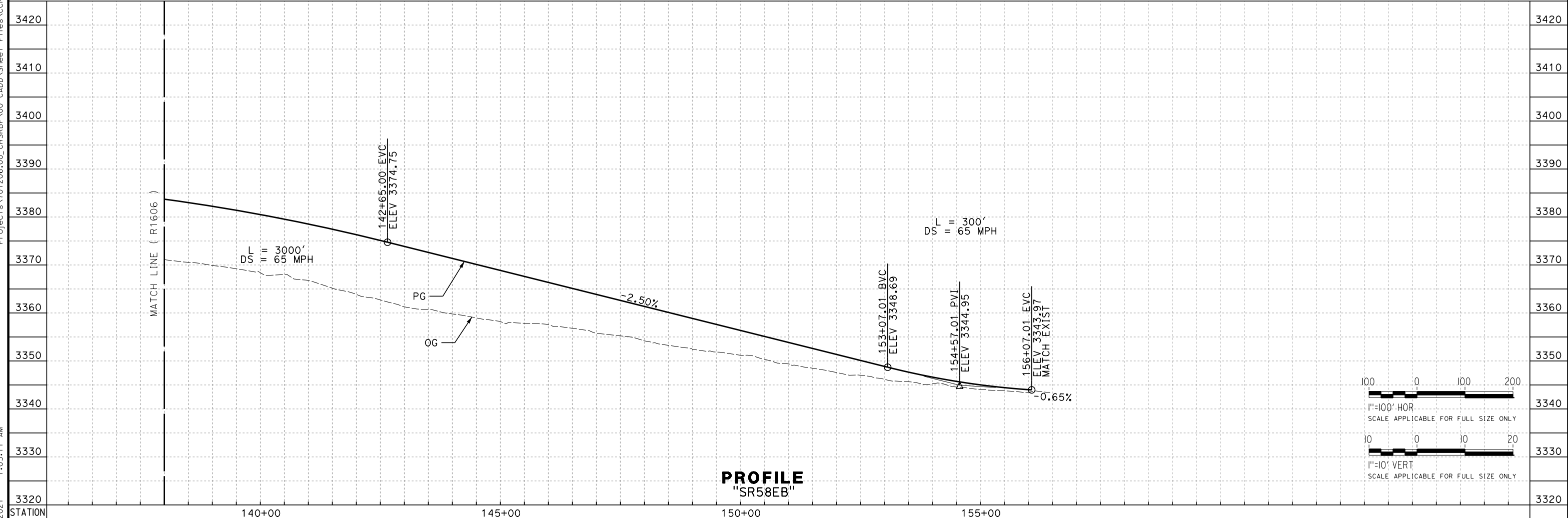
Projects\701206\00\_CHSRBP\00\_CADD\Sheet\_Files\CCNM\CV\BP-CV-R1606  
 1:01:38 AM  
 1/13/2021  
 e.laina.baldwin@tylin.com



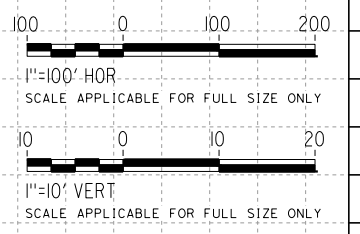
**PLAN**

LINE DATA		
No.	BEARING	DISTANCE
3	S 60°13'31" E	344.01'

CURVE DATA				
No.	R	Δ	T	L
2	5000.00'	25°02'13"	1110.17'	2184.89'



**PROFILE**  
"SR58EB"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

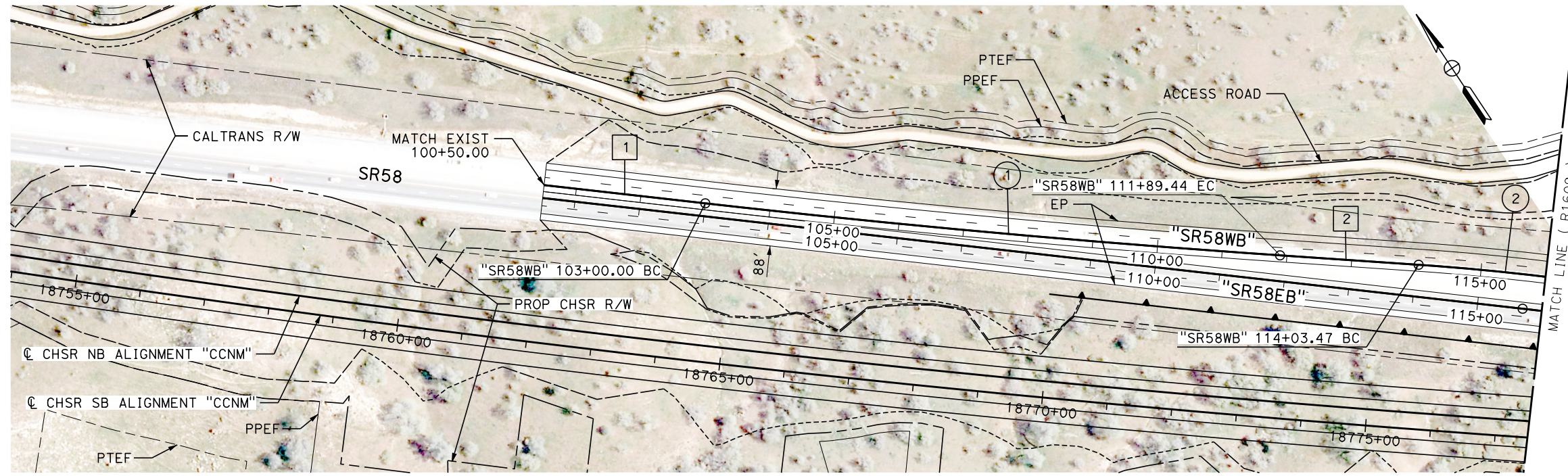
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY  
EASTBOUND STATE ROUTE 58  
PLAN AND PROFILE

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
CV-R1607  
SCALE  
AS SHOWN  
SHEET NO.  
**34**

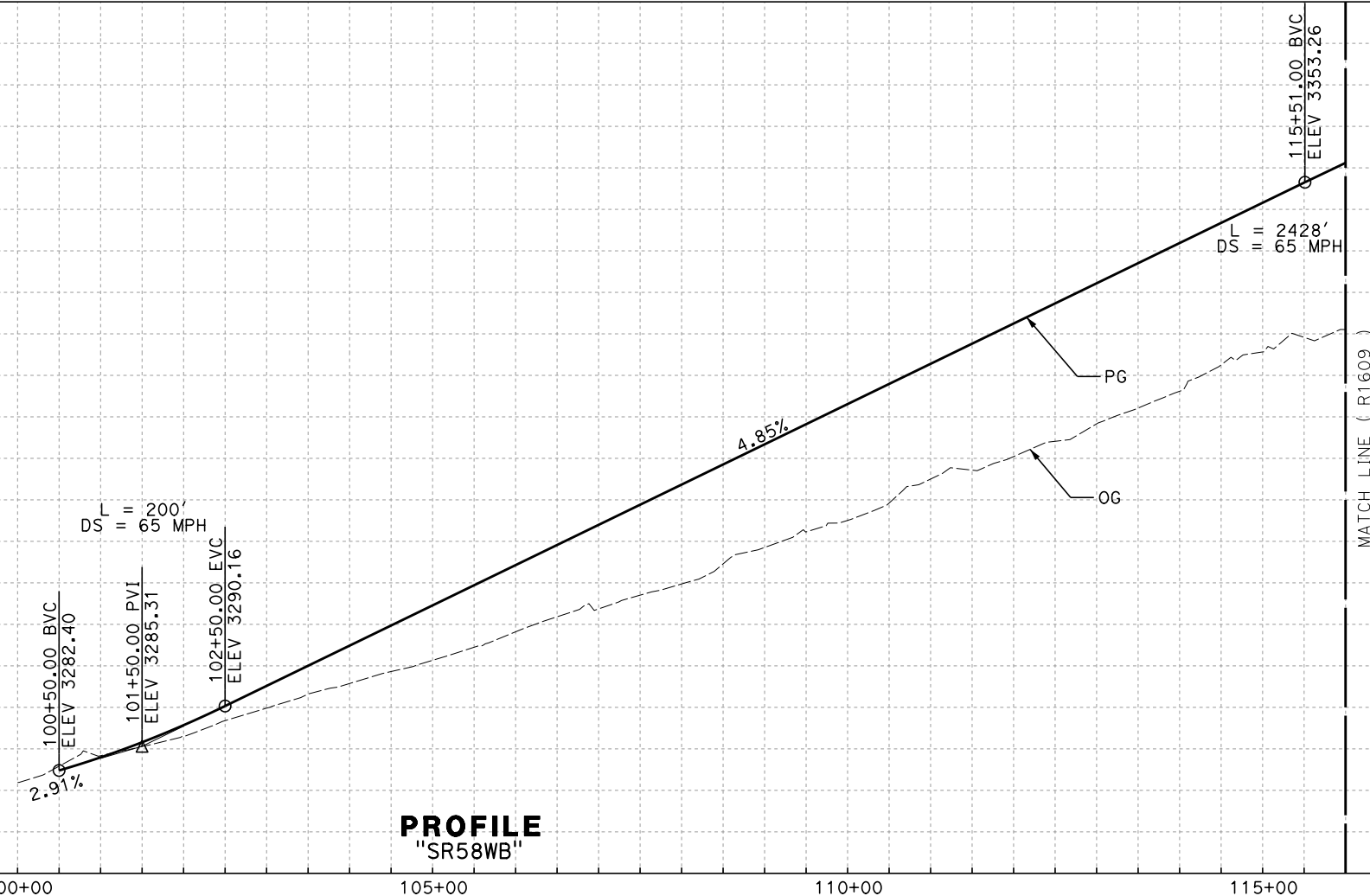
Projects\701206\00\_CHSRBP\00\_CADD\Sheet Files\CCNM\CV\BP-CV-R1607  
 1:05:11 AM  
 1/13/2021  
 e.laina.baldwin@tylin.com



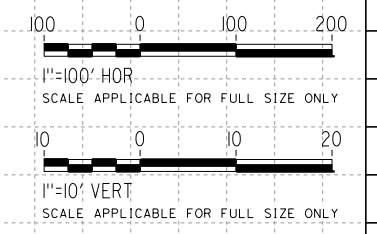
**PLAN**

CURVE DATA				
No.	R	Δ	T	L
1	20000.00'	2°32'53"	444.79'	889.44'
2	3753.00'	17°17'25"	570.62'	1132.55'

LINE DATA		
No.	BEARING	DISTANCE
1	S 49°55'50" E	250.00'
2	S 52°28'43" E	214.03'



**PROFILE**  
"SR58WB"



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\CCNM\CV\BP-CV-R1608  
 1:05:08 AM  
 1/13/2021  
 elaina.baldwin@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

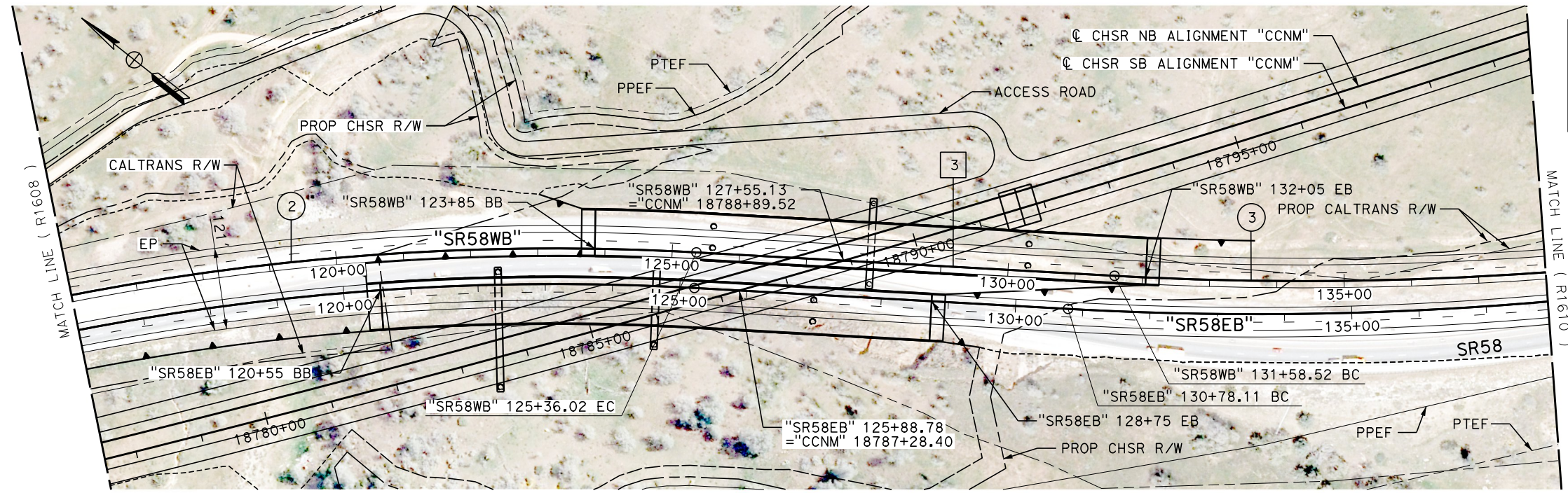
DESIGNED BY  
**A. RIVERA**  
 DRAWN BY  
**D. LOPEZ**  
 CHECKED BY  
**P. BRAND**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 ROADWAY  
 WESTBOUND STATE ROUTE 58  
 PLAN AND PROFILE

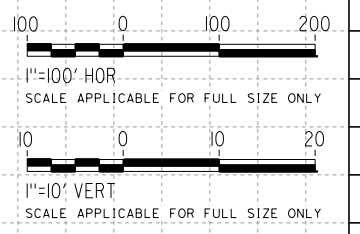
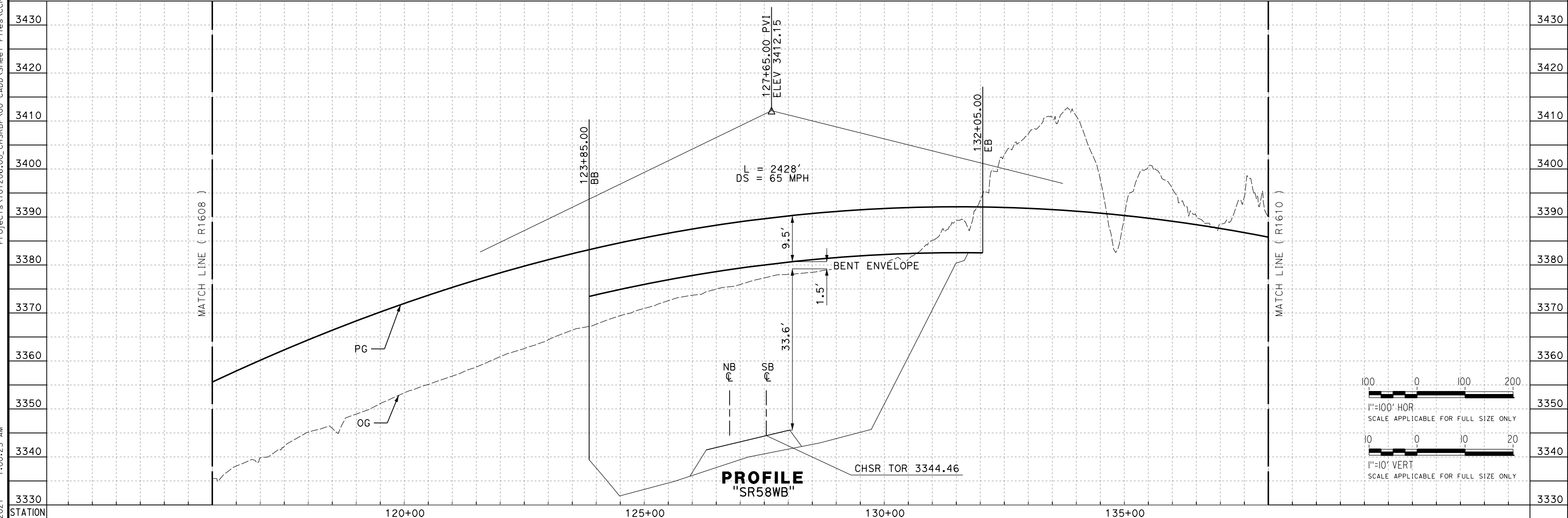
CONTRACT NO.  
HSR13-44  
 DRAWING NO.  
CV-R1608  
 SCALE  
AS SHOWN  
 SHEET NO.  
**35**



CURVE DATA				
No.	R	Δ	T	L
2	3753.00'	17°17'25"	570.62'	1132.55'
3	5000.00'	25°02'13"	1110.17'	2184.89'

LINE DATA		
No.	BEARING	DISTANCE
3	S 35°11'18" E	622.50'

Projects\T01206\00\_CHSRBP\00\_CADD\Sheet\_Files\CCNM\CV\BP-CV-R1609  
 1:00:23 AM  
 1/13/2021  
 elaina.baldwin@tylin.com



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
 DRAWN BY  
**D. LOPEZ**  
 CHECKED BY  
**P. BRAND**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

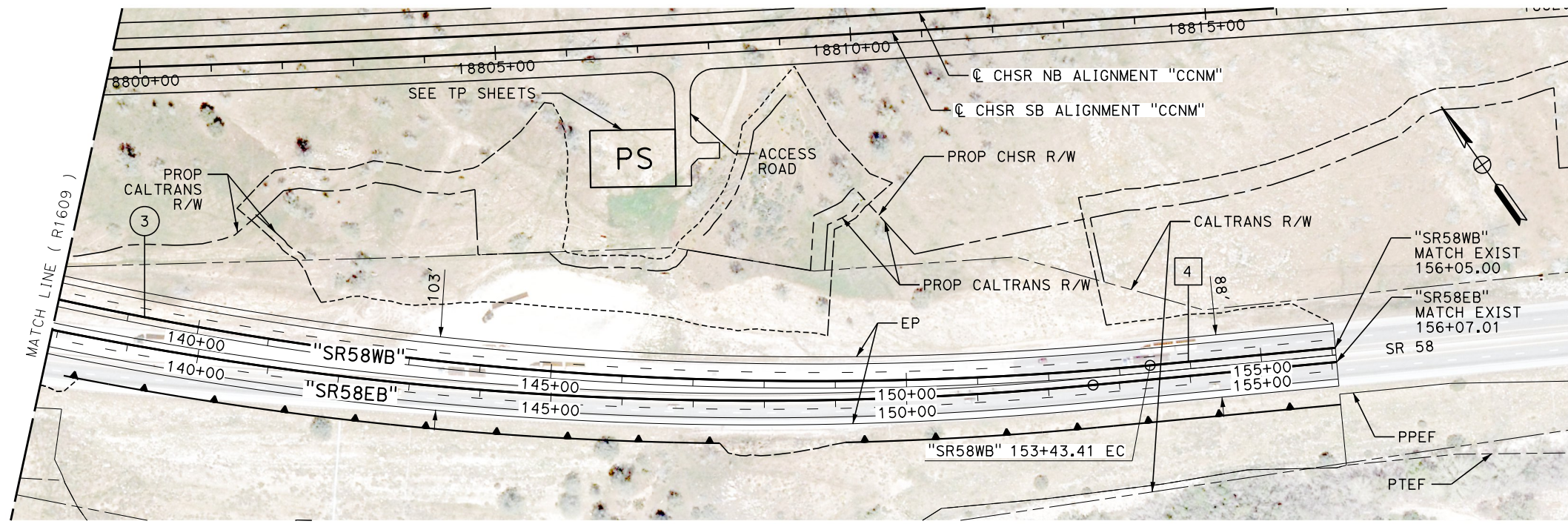
**RECORD SET**  
**PEPD**  
**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**

**TYLIN INTERNATIONAL**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 ROADWAY  
 WESTBOUND STATE ROUTE 58  
 PLAN AND PROFILE

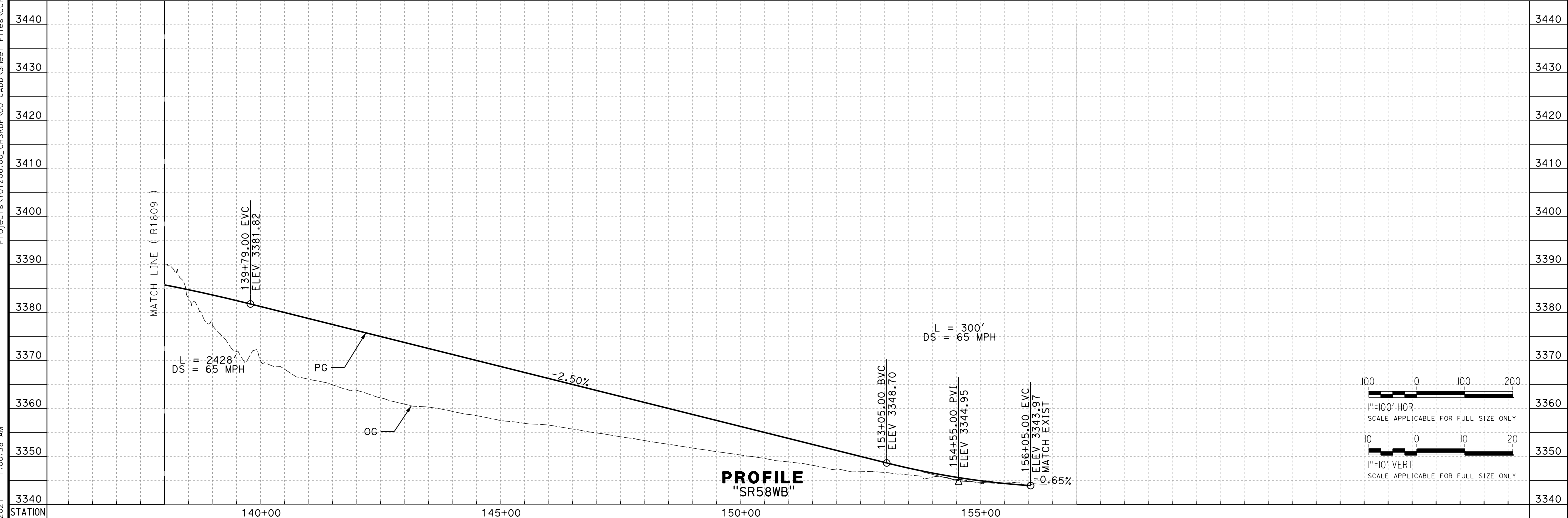
CONTRACT NO.  
**HSR13-44**  
 DRAWING NO.  
**CV-R1609**  
 SCALE  
**AS SHOWN**  
 SHEET NO.  
**36**



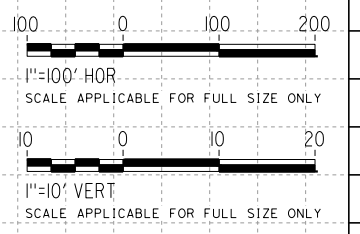
**PLAN**

LINE DATA		
No.	BEARING	DISTANCE
4	N 60°13'31" W	261.59'

CURVE DATA				
No.	R	Δ	T	L
3	5000.00'	25°02'13"	1110.17'	2184.89'



**PROFILE**  
"SR58WB"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY  
WESTBOUND STATE ROUTE 58  
PLAN AND PROFILE

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**CV-R1610**  
SCALE  
**AS SHOWN**  
SHEET NO.  
**37**

Projects\701206.00\_CHSRBP\00\_CADD\Sheet\_Files\CCNM\CV\BP-CV-R1610  
 1:00:58 AM  
 1/13/2021  
 elaina.baldwin@tylin.com

LINE DATA		
No.	BEARING	DISTANCE
1	N 16°06'22" W	30.53'
2	N 1°56'15" E	292.63'
3	N 2°33'42" W	562.21'
4	N 71°47'59" E	105.94'
5	N 14°10'28" E	216.56'
6	N 5°50'36" E	102.29'
7	N 10°27'20" W	111.60'
8	N 3°21'11" E	498.99'
9	N 26°08'20" E	81.16'
10	N 9°37'19" W	139.06'
11	N 29°08'31" E	244.02'
12	N 70°50'12" W	113.52'
13	N 50°04'50" W	75.93'
14	N 36°03'50" W	156.86'
15	N 39°50'04" W	114.15'
16	N 8°24'43" W	674.26'
17	N 14°42'22" E	284.00'
18	N 6°00'34" E	510.22'
19	N 16°34'08" E	194.82'
20	N 5°44'37" W	355.93'
21	N 8°58'41" E	288.53'
22	N 33°18'25" E	52.90'

CURVE DATA				
No.	R	Δ	T	L
1	65.00'	18°02'37"	10.32'	20.47'
2	500.00'	4°29'57"	19.64'	39.26'
3	45.00'	74°21'41"	34.13'	58.40'
4	45.00'	57°37'31"	24.75'	45.26'
5	300.00'	8°19'52"	21.85'	43.62'
6	45.00'	16°17'56"	6.44'	12.80'
7	45.00'	13°48'31"	5.45'	10.85'
8	45.00'	22°47'09"	9.07'	17.90'
9	45.00'	35°45'39"	14.52'	28.09'
10	45.00'	38°45'50"	15.83'	30.45'
11	45.00'	99°58'44"	53.61'	78.52'
12	500.00'	20°45'23"	91.57'	181.13'
13	45.00'	14°01'00"	5.53'	11.01'
14	45.00'	3°46'15"	1.48'	2.96'
15	100.00'	31°25'21"	28.13'	54.84'
16	100.00'	23°07'05"	20.45'	40.35'
17	100.00'	8°41'47"	7.60'	15.18'
18	100.00'	10°33'34"	9.24'	18.43'
19	100.00'	22°18'45"	19.72'	38.94'
20	200.00'	14°43'17"	25.84'	51.39'
21	45.00'	24°19'45"	9.70'	19.11'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

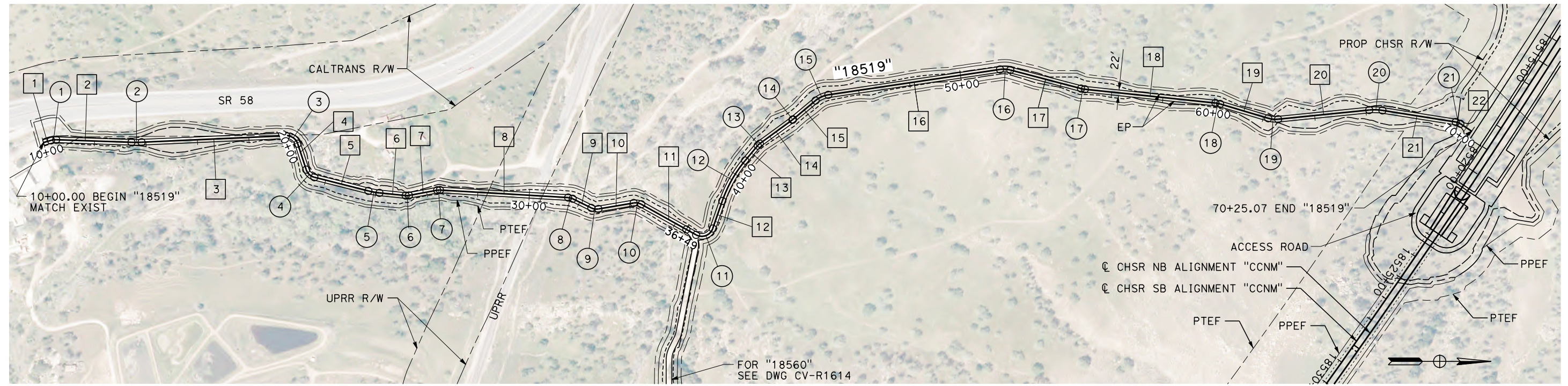
**NOT FOR  
CONSTRUCTION**



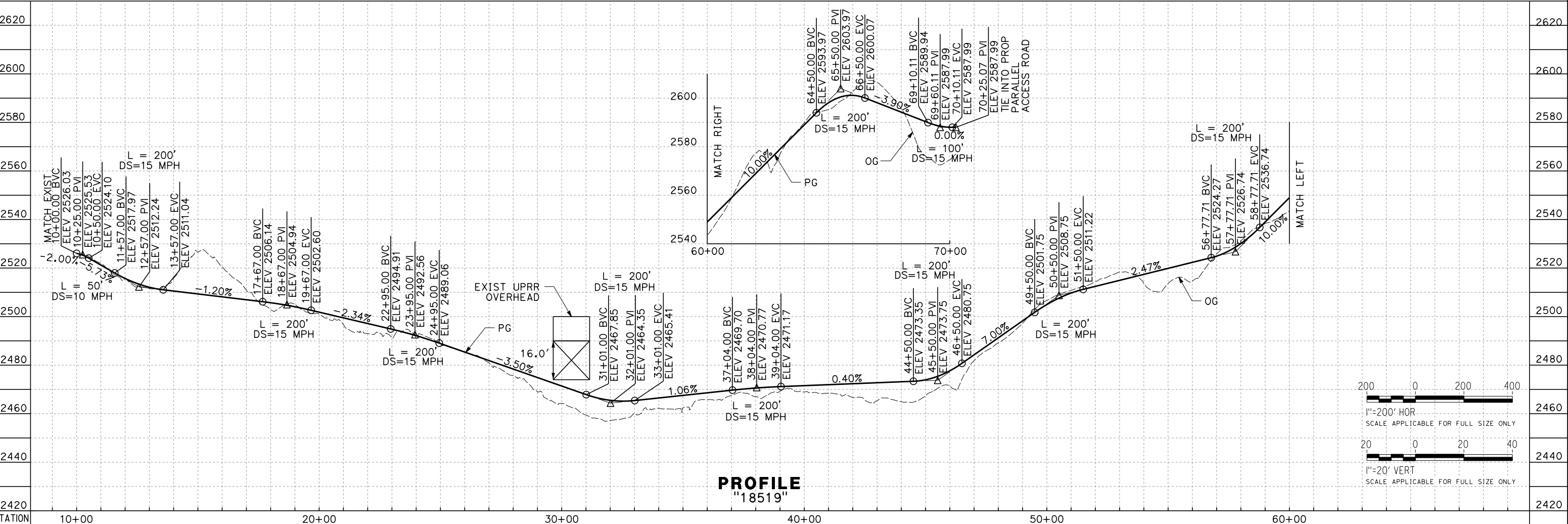
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY  
ACCESS ROAD "18519"  
HORIZONTAL ALIGNMENT DATA TABLE

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
CV-R1612  
SCALE  
NO SCALE  
SHEET NO.  
38

Projects\701206.00\_CHSRBP\00\_CADD\Sheet\_Files\CCNM\CV\BP-CV-R1613 1:04:14 AM 1/13/2021 elaina.baldwin@tylin.com



**PLAN**



**PROFILE**  
"18519"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**

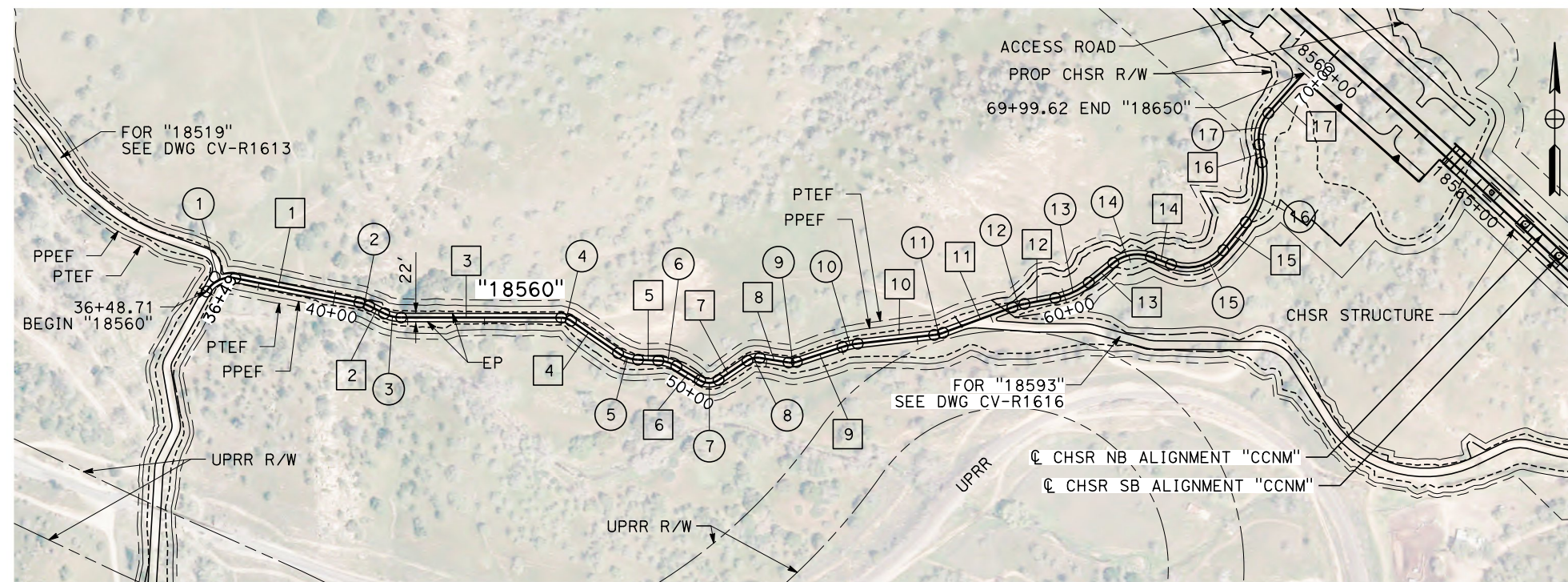


**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY  
ACCESS ROAD "18519"  
PLAN AND PROFILE

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**CV-R1613**  
SCALE  
**AS SHOWN**  
SHEET NO.  
**39**

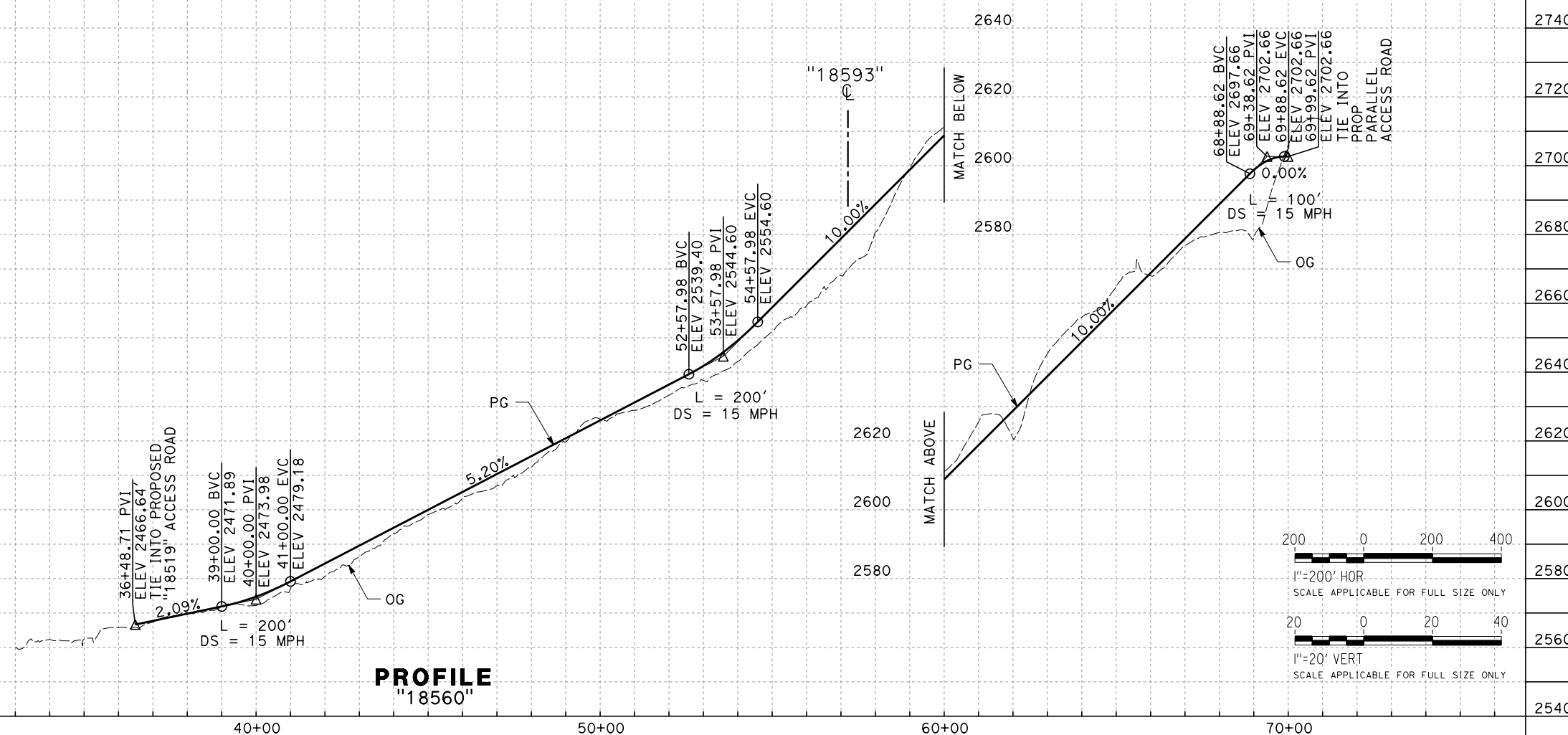
**LINE DATA**

No.	BEARING	DISTANCE
1	S 78°53'19" E	329.77'
2	S 63°31'48" E	43.67'
3	S 89°54'06" E	416.97'
4	S 55°36'12" E	148.68'
5	S 87°23'23" E	53.03'
6	S 58°48'48" E	71.67'
7	N 56°08'58" E	90.67'
8	S 80°48'24" E	75.87'
9	N 71°55'24" E	125.53'
10	N 83°29'51" E	200.57'
11	N 69°48'42" E	192.55'
12	N 79°09'11" E	81.63'
13	N 51°17'03" E	81.96'
14	S 69°14'37" E	55.91'
15	N 38°49'59" E	93.65'
16	N 8°53'53" W	46.64'
17	N 41°43'31" E	139.22'



**CURVE DATA**

No.	R	Δ	T	L
1	70.00'	71°58'09"	50.83'	87.93'
2	100.00'	15°21'31"	13.48'	26.81'
3	100.00'	26°22'18"	23.43'	46.03'
4	45.00'	34°17'54"	13.89'	26.94'
5	100.00'	31°47'11"	28.47'	55.48'
6	100.00'	28°34'35"	25.47'	49.88'
7	45.00'	65°02'14"	28.69'	51.08'
8	45.00'	43°02'37"	17.75'	33.81'
9	45.00'	27°16'12"	10.92'	21.42'
10	200.00'	11°34'27"	20.27'	40.40'
11	100.00'	13°41'09"	12.00'	23.89'
12	200.00'	9°20'29"	16.34'	32.61'
13	200.00'	27°52'08"	49.62'	97.28'
14	100.00'	59°28'20"	57.12'	103.80'
15	120.00'	71°55'23"	87.06'	150.64'
16	200.00'	47°43'52"	88.48'	166.61'
17	100.00'	50°37'25"	47.29'	88.35'



Projects\701206\00\_CHSRBP\00\_CADD\Sheet\_Files\CCNM\CV\BP-CV-R1614  
 1:05:22 AM  
 1/13/2021  
 e.laina.baldwin@tylin.com

DESIGNED BY  
**A. RIVERA**  
 DRAWN BY  
**D. LOPEZ**  
 CHECKED BY  
**P. BRAND**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 ROADWAY  
 ACCESS ROAD "18560"  
 PLAN AND PROFILE

CONTRACT NO.  
**HSR13-44**  
 DRAWING NO.  
**CV-R1614**  
 SCALE  
**AS SHOWN**  
 SHEET NO.  
**40**

REV	DATE	BY	CHK	APP	DESCRIPTION



Projects\701206.00\_CHSRBP\00\_CADD\Sheet\_Files\CCNM\CV\BP-CV-R1615

e.laina.baldwin@tylin.com  
1/13/2021 1:02:27 AM

LINE DATA		
No.	BEARING	DISTANCE
1	S 85°55'26" E	149.72'
2	S 89°47'55" E	121.07'
3	S 74°43'48" E	141.05'
4	S 89°37'18" E	273.79'
5	S 32°10'21" E	168.67'
6	N 64°13'56" E	81.74'
7	S 75°00'56" E	59.58'
8	N 75°01'37" E	111.36'
9	S 30°59'36" E	150.65'
10	S 85°09'31" E	71.98'
11	S 9°49'47" W	138.48'
12	S 75°25'02" E	112.74'
13	S 47°46'05" E	740.81'
14	N 48°25'43" E	57.48'

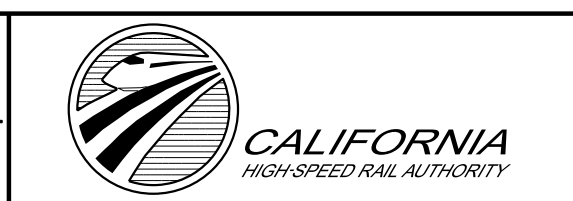
CURVE DATA				
No.	R	Δ	T	L
1	100.00'	24°15'52"	21.50'	42.35'
2	100.00'	3°52'29"	3.38'	6.76'
3	100.00'	15°04'07"	13.23'	26.30'
4	100.00'	14°53'30"	13.07'	25.99'
5	100.00'	57°26'57"	54.80'	100.27'
6	300.00'	83°35'43"	268.21'	437.70'
7	100.00'	40°45'08"	37.14'	71.13'
8	350.00'	29°57'26"	93.64'	183.00'
9	45.00'	73°58'47"	33.90'	58.10'
10	100.00'	54°09'55"	51.13'	94.54'
11	250.00'	94°59'19"	272.77'	414.47'
12	150.00'	85°14'49"	138.05'	223.18'
13	200.00'	27°38'57"	49.22'	96.51'
14	45.00'	83°48'12"	40.38'	65.82'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

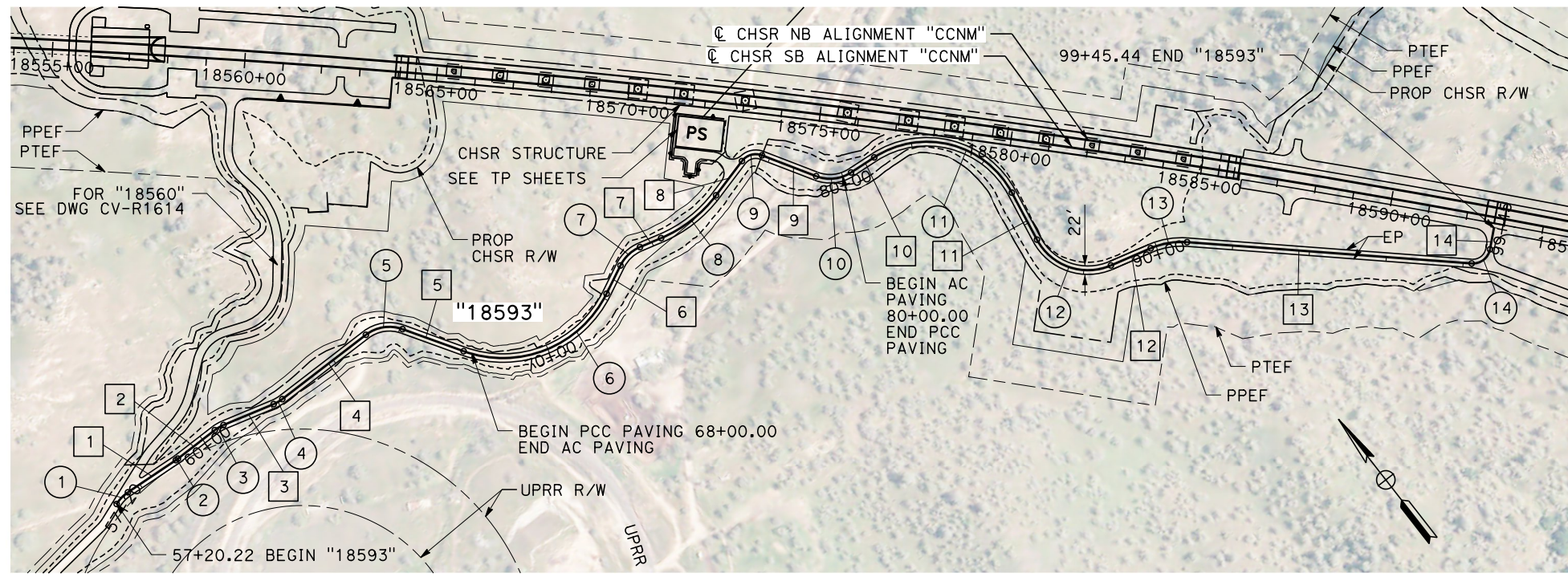
**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**

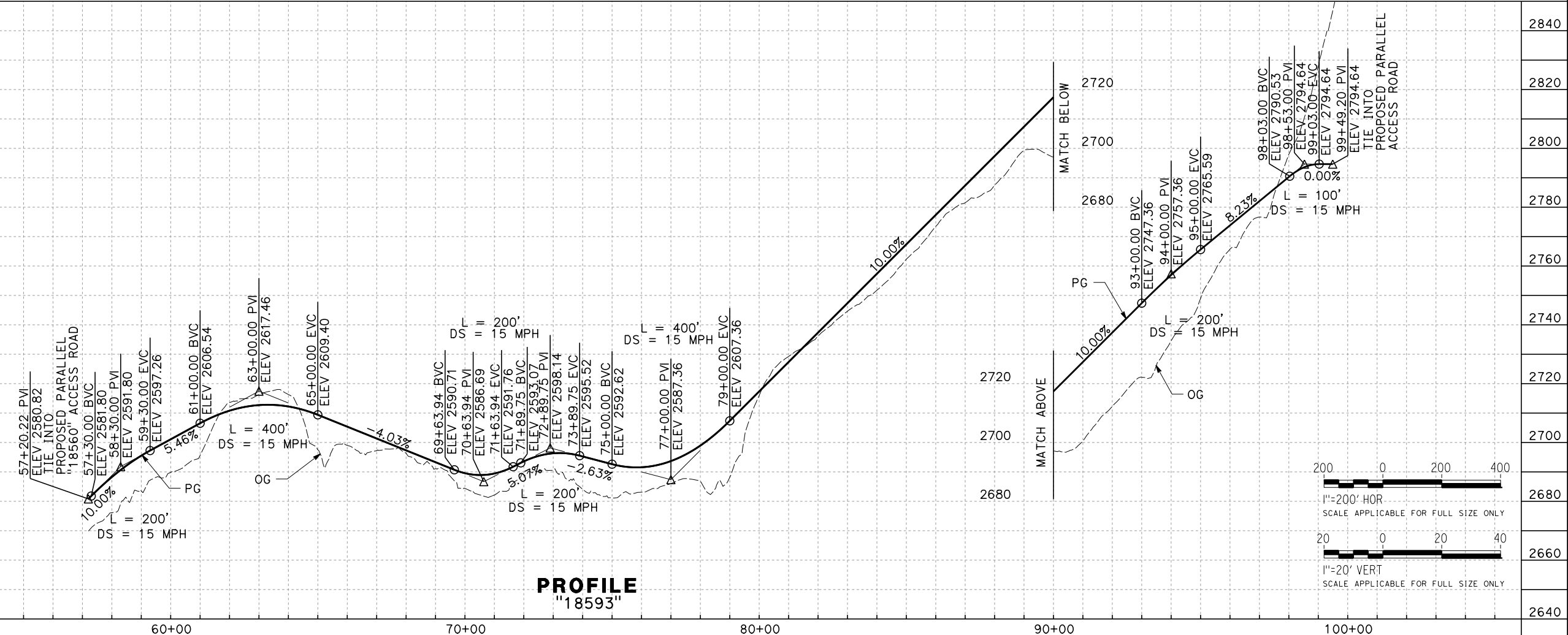


**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY  
ACCESS ROAD "18593"  
HORIZONTAL ALIGNMENT DATA TABLE

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
CV-R1615  
SCALE  
NO SCALE  
SHEET NO.  
41



**PLAN**



**PROFILE**  
"18593"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

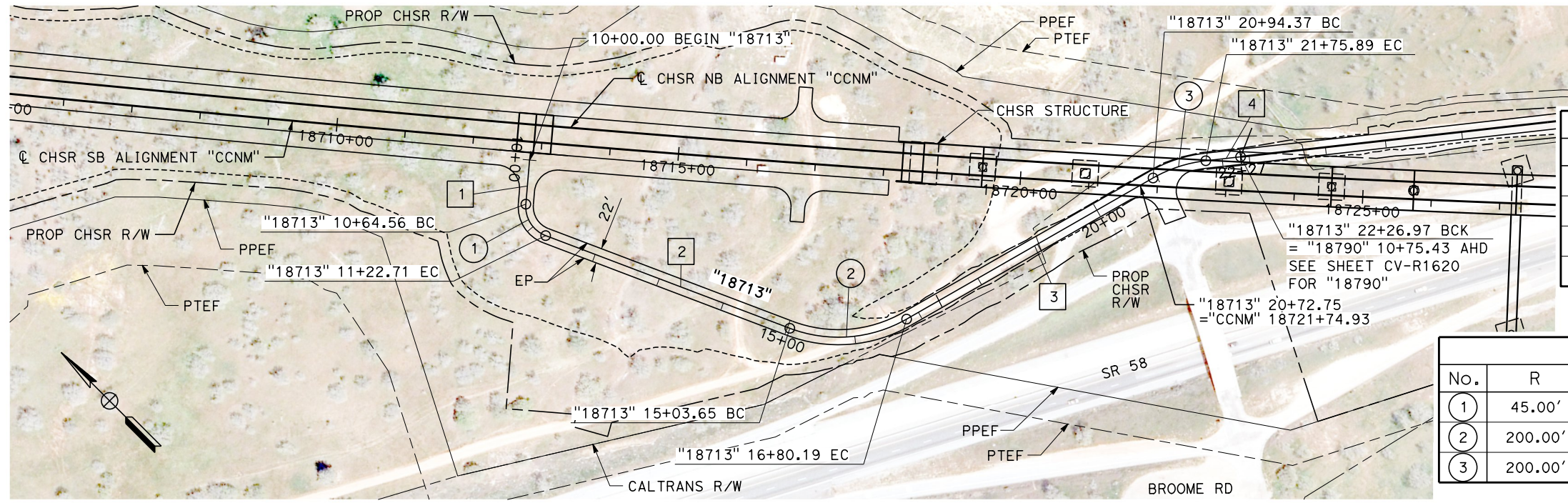
**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY  
ACCESS ROAD "18593"  
PLAN AND PROFILE

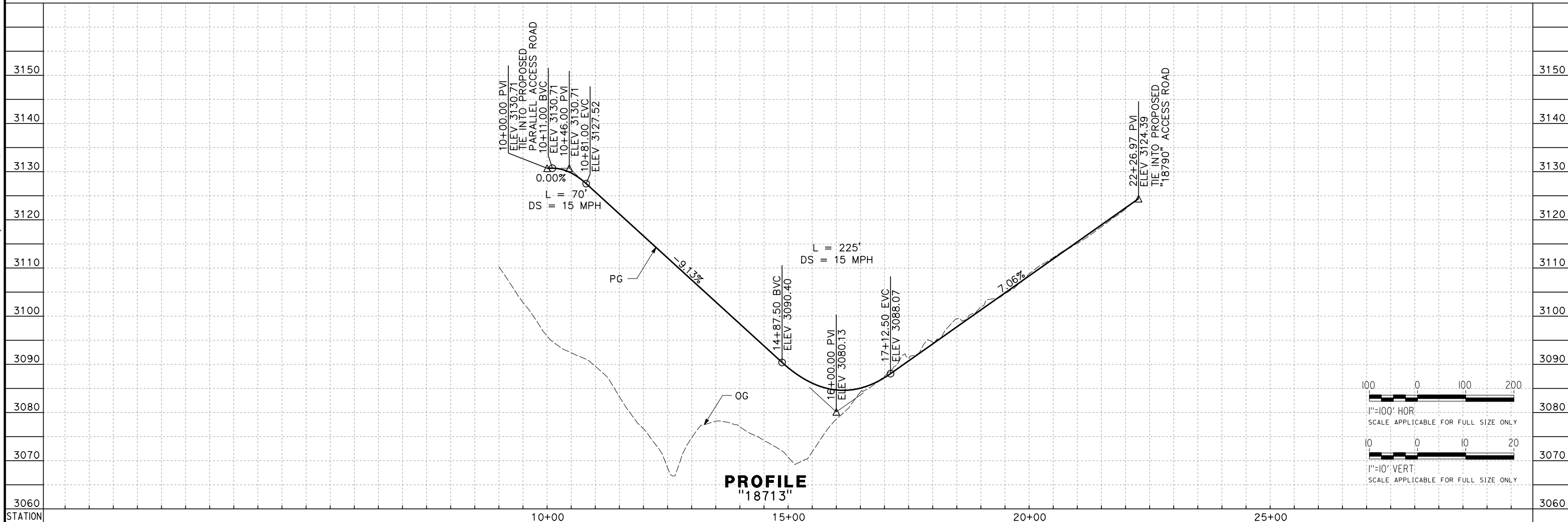
CONTRACT NO.  
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DRAWING NO.  
**CV-R1616**  
SCALE  
**AS SHOWN**  
SHEET NO.  
**42**



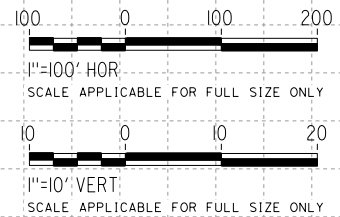
LINE DATA		
No.	BEARING	DISTANCE
1	S 49°49'02" W	64.56'
2	S 24°12'55" E	380.94'
3	S 74°47'27" E	414.18'
4	S 51°26'12" E	51.08'

CURVE DATA				
No.	R	Δ	T	L
1	45.00'	74°01'57"	33.93'	58.15'
2	200.00'	50°34'27"	94.48'	176.54'
3	200.00'	23°21'10"	41.33'	81.52'

**PLAN**



**PROFILE**  
"18713"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY  
ACCESS ROAD "18713"  
PLAN AND PROFILE

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**CV-R1618**  
SCALE  
**AS SHOWN**  
SHEET NO.  
**43**

LINE DATA		
No.	BEARING	DISTANCE
1	S 51°26'12" E	573.48'
2	S 76°22'27" E	162.43'
3	S 66°53'47" E	105.74'
4	S 36°51'25" E	39.30'
5	S 68°31'24" E	65.34'
6	N 83°22'12" E	31.17'
7	S 68°00'20" E	118.18'
8	S 61°53'41" E	212.44'
9	S 26°57'55" E	104.73'
10	S 44°22'55" E	125.65'
11	S 6°45'46" E	25.95'
12	S 30°10'56" E	440.41'
13	S 43°07'59" E	254.86'
14	S 78°58'39" E	104.03'
15	S 56°00'28" E	135.08'
16	S 32°13'00" E	107.81'
17	S 38°54'46" E	385.89'
18	S 66°54'27" E	79.35'
19	S 30°52'30" E	107.31'
20	S 63°54'51" E	73.15'
21	S 49°14'06" E	246.42'
22	S 69°01'56" E	40.32'
23	S 25°12'44" E	39.02'
24	S 47°55'24" E	47.72'
25	S 60°47'56" E	188.90'
26	S 47°31'03" E	85.13'
27	S 61°45'07" E	71.82'
28	S 73°38'49" E	175.14'
29	S 59°42'23" E	407.96'
30	S 37°47'40" W	120.51'
31	S 20°16'18" E	655.07'
32	S 34°45'44" W	54.18'

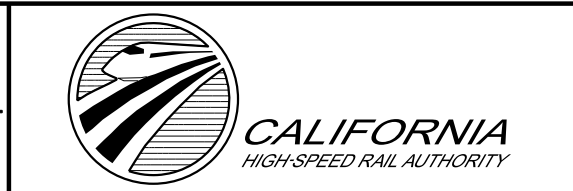
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No.	R	Δ	T	L
1	100.00'	24°56'15"	22.11'	43.52'
2	100.00'	9°28'40"	8.29'	16.54'
3	400.00'	30°02'22"	107.33'	209.71'
4	45.00'	31°39'58"	12.76'	24.87'
5	300.00'	28°06'25"	75.10'	147.17'
6	200.00'	28°37'29"	51.03'	99.92'
7	500.00'	6°06'39"	26.69'	53.33'
8	400.00'	34°55'46"	125.85'	243.85'
9	100.00'	17°25'00"	15.32'	30.40'
10	80.00'	37°37'08"	27.25'	52.53'
11	100.00'	23°25'10"	20.73'	40.87'
12	300.00'	12°57'03"	34.05'	67.81'
13	150.00'	35°50'40"	48.51'	93.84'
14	100.00'	22°58'11"	20.32'	40.09'
15	100.00'	23°47'28"	21.07'	41.52'
16	100.00'	6°41'46"	5.85'	11.69'
17	45.00'	27°59'41"	11.22'	21.99'
18	45.00'	36°01'56"	14.64'	28.30'
19	150.00'	33°02'20"	44.49'	86.50'
20	45.00'	14°40'45"	5.80'	11.53'
21	200.00'	19°47'51"	34.90'	69.11'
22	45.00'	43°49'13"	18.10'	34.42'
23	100.00'	22°42'40"	20.08'	39.64'
24	100.00'	12°52'32"	11.28'	22.47'
25	200.00'	13°16'53"	23.28'	46.36'
26	100.00'	14°14'04"	12.49'	24.84'
27	100.00'	11°53'42"	10.42'	20.76'
28	200.00'	13°56'26"	24.45'	48.66'
29	80.00'	97°30'04"	91.22'	136.14'
30	45.00'	80°03'59"	37.8'	62.88'
31	45.00'	77°02'02"	35.82'	60.50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

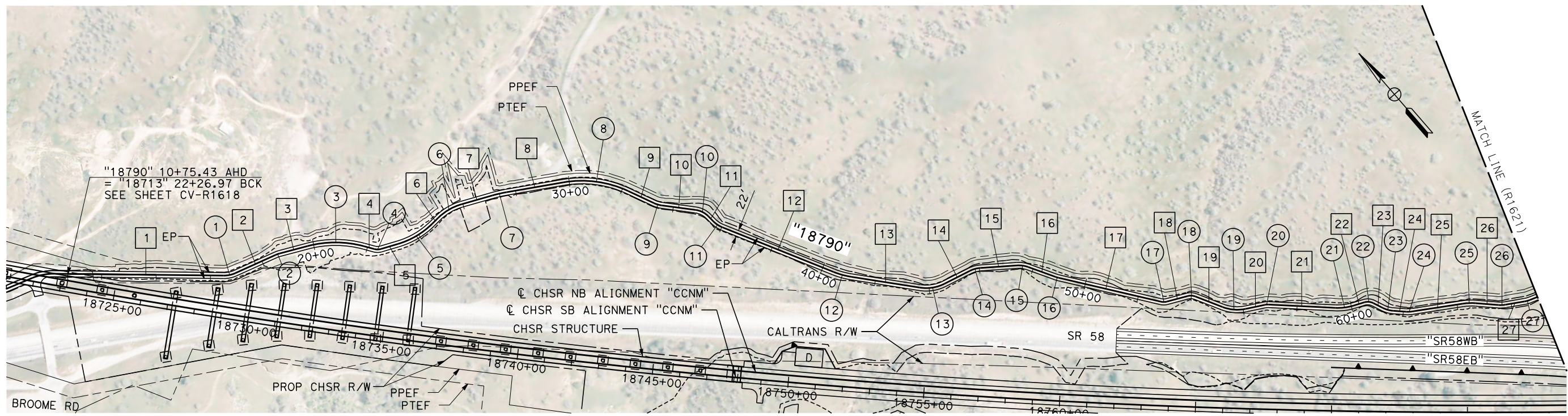
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CONSTRUCTION**



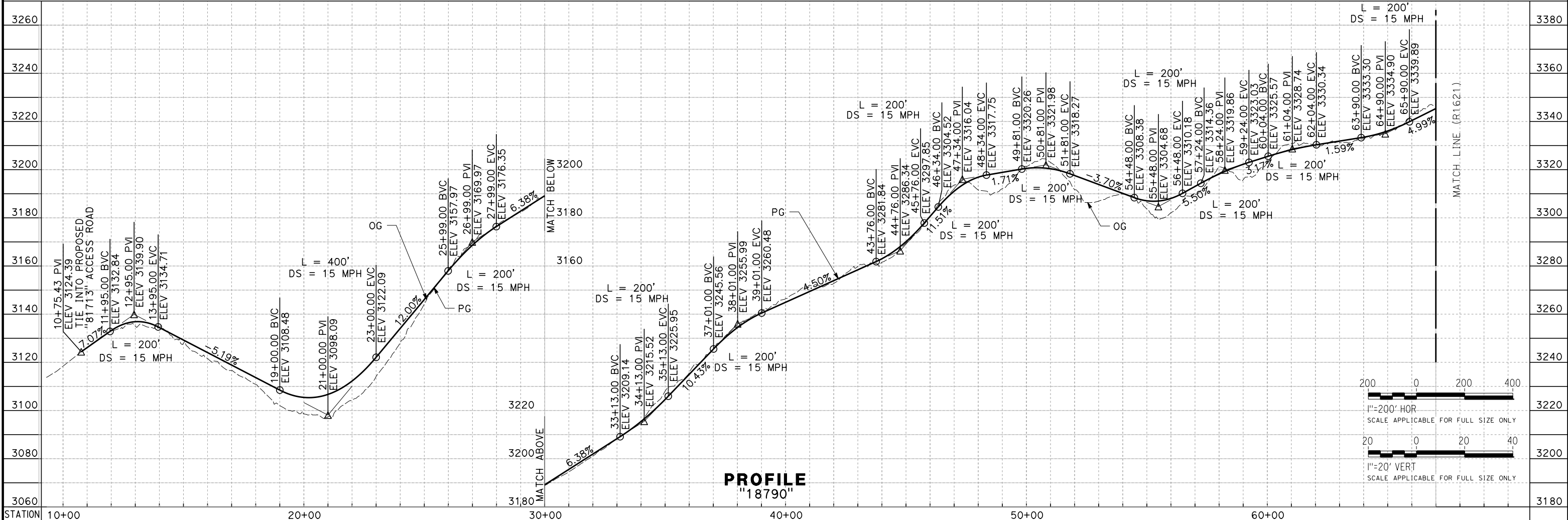
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BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY  
ACCESS ROAD "18790"  
HORIZONTAL ALIGNMENT DATA TABLE

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
CV-R1619  
SCALE  
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SHEET NO.  
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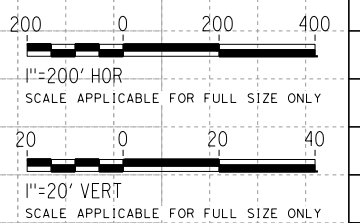
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 1/13/2021  
 elaina.baldwin@tylin.com



**PLAN**



**PROFILE**  
"18790"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
 DRAWN BY  
**D. LOPEZ**  
 CHECKED BY  
**P. BRAND**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**

**TYLIN** INTERNATIONAL



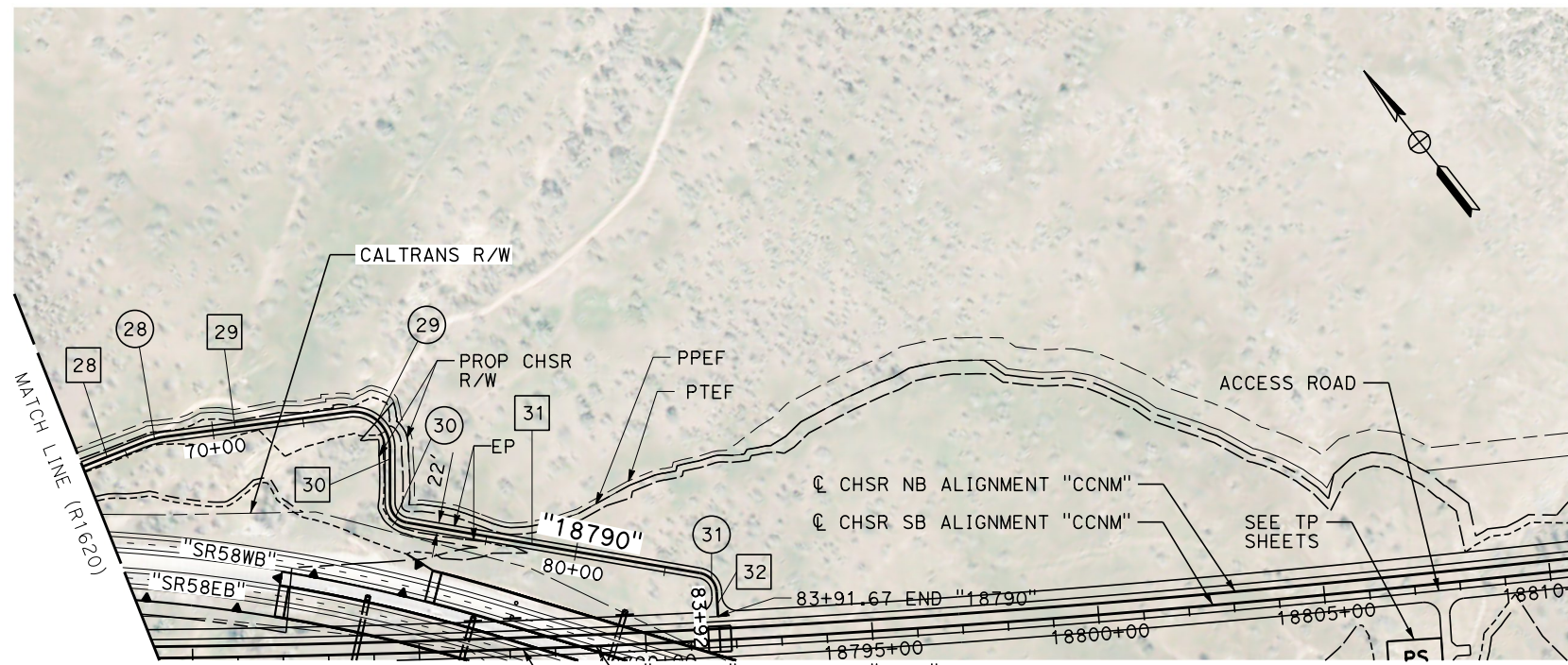
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**BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 ROADWAY  
 ACCESS ROAD "18790"  
**PLAN AND PROFILE**

CONTRACT NO.  
**HSR13-44**  
 DRAWING NO.  
**CV-R1620**  
 SCALE  
**AS SHOWN**  
 SHEET NO.  
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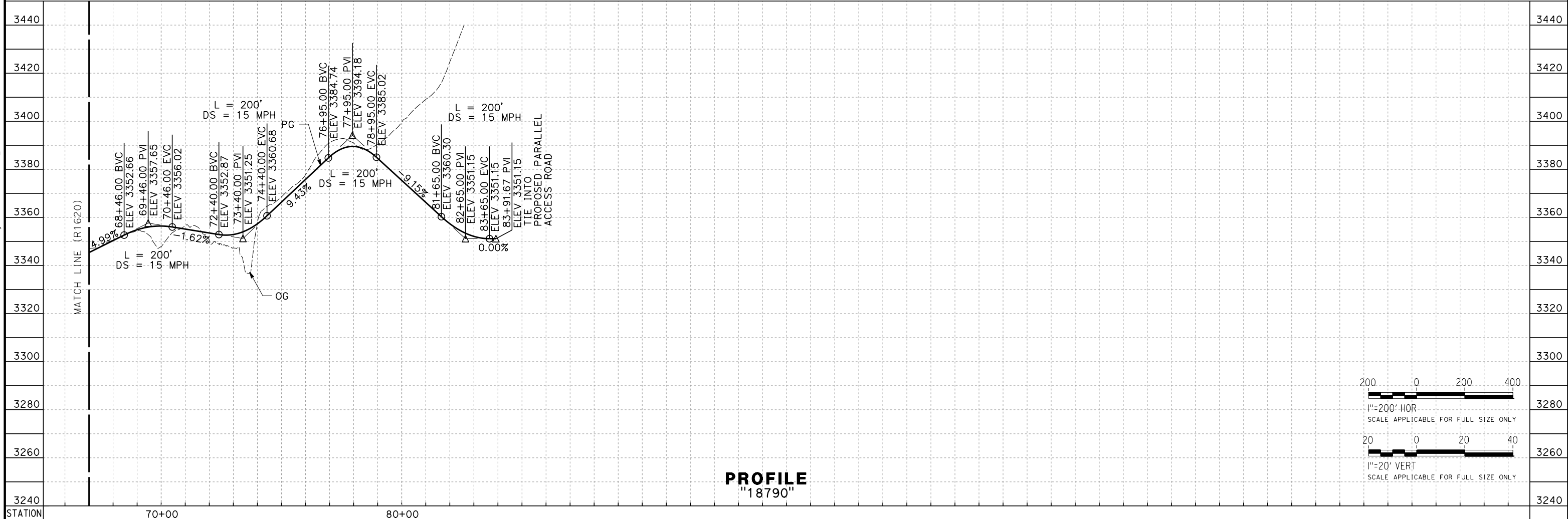
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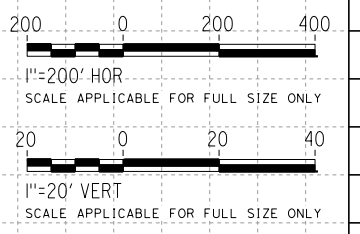
e.laina.baldwin@tylin.com  
1/13/2021



**PLAN**



**PROFILE**  
"18790"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. RIVERA**  
DRAWN BY  
**D. LOPEZ**  
CHECKED BY  
**P. BRAND**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**

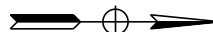













**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
CCNM DESIGN OPTION  
ROADWAY  
ACCESS ROAD "18790"  
PLAN AND PROFILE

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
CV-R1621  
SCALE  
AS SHOWN  
SHEET NO.  
**46**

\$USER\$ 12/28/2020 1:20:51 PM \$PENTBL\$ \$PLTDRVS\$ \$FILE\$

LEGEND

-  NORTH ARROW
-  PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT
-  PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
-  LIMITS OF EXCAVATION (CUT)
-  LIMITS OF EMBANKMENT (FILL)
-  CONSTRUCTION STAGING / LAYDOWN AREA, ROCK CRUSHING PLANT, OR ROCK CRUSHING & PRECAST OPERATIONS YARD
-  PROPOSED RETAINING WALL
-  PHASE 1
-  PHASE 2
-  PHASE 3
-  CUT AREAS
-  FILL AREAS

GENERAL NOTES

1. THIS IS A HIGH LEVEL SCHEMATIC DESIGN AND NOT INTENDED FOR USE DURING CONSTRUCTION.
2. DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS. UTILITY RELOCATIONS ARE NOT SHOWN.
3. TRAFFIC DETOURS ARE NOT SHOWN IN THIS SET OF PLANS.
4. LAYDOWN AREAS, STAGING AREAS AND OTHER CONTRACTOR'S FACILITIES ARE INCLUDED IN THIS SET OF PLANS.
5. DETAILED PHASING OF LONG CHSR VIADUCTS ARE NOT SHOWN.
6. LMF (LIGHT MAINTENANCE FACILITY), MOWF (MAINTENANCE OF WAY FACILITY), MOWS (MAINTENANCE OF WAY SIDING), TPF (TRACTION POWER FACILITY), TPS (TRACTION POWER SUBSTATION) ARE SHOWN, BUT NOT INCLUDED IN THE SEQUENCING.
7. CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION DURATIONS.
8. DRAINAGE OVERCROSSINGS ALONG THE ALIGNMENTS ARE NOT SHOWN IN THE SEQUENCING PLANS.

ABBREVIATIONS

CHSR	CALIFORNIA HIGH SPEED RAIL
D&B	DRILL AND BLAST
LMF	LIGHT MAINTENANCE FACILITY
MOWF	MAINTENANCE OF WAY FACILITY
MOWS	MAINTENANCE OF WAY SIDING
OH	OVERHEAD
RS-WA	RAIL STORAGE & WELDING AREA
SEM	SEQUENTIAL EXCAVATION METHOD
STA	STATION
TPF	TRACTION POWER FACILITY
TPS	TRACTION POWER SUPPLY SYSTEM
TPSS	TRACTION POWER SUBSTATION
TBM	TUNNEL BORING MACHINE
UC	UNDERCROSSING
UP	UNDERPASS
UPRR	UNION PACIFIC RAILROAD

REV	DATE	BY	CHK	APP	DESCRIPTION

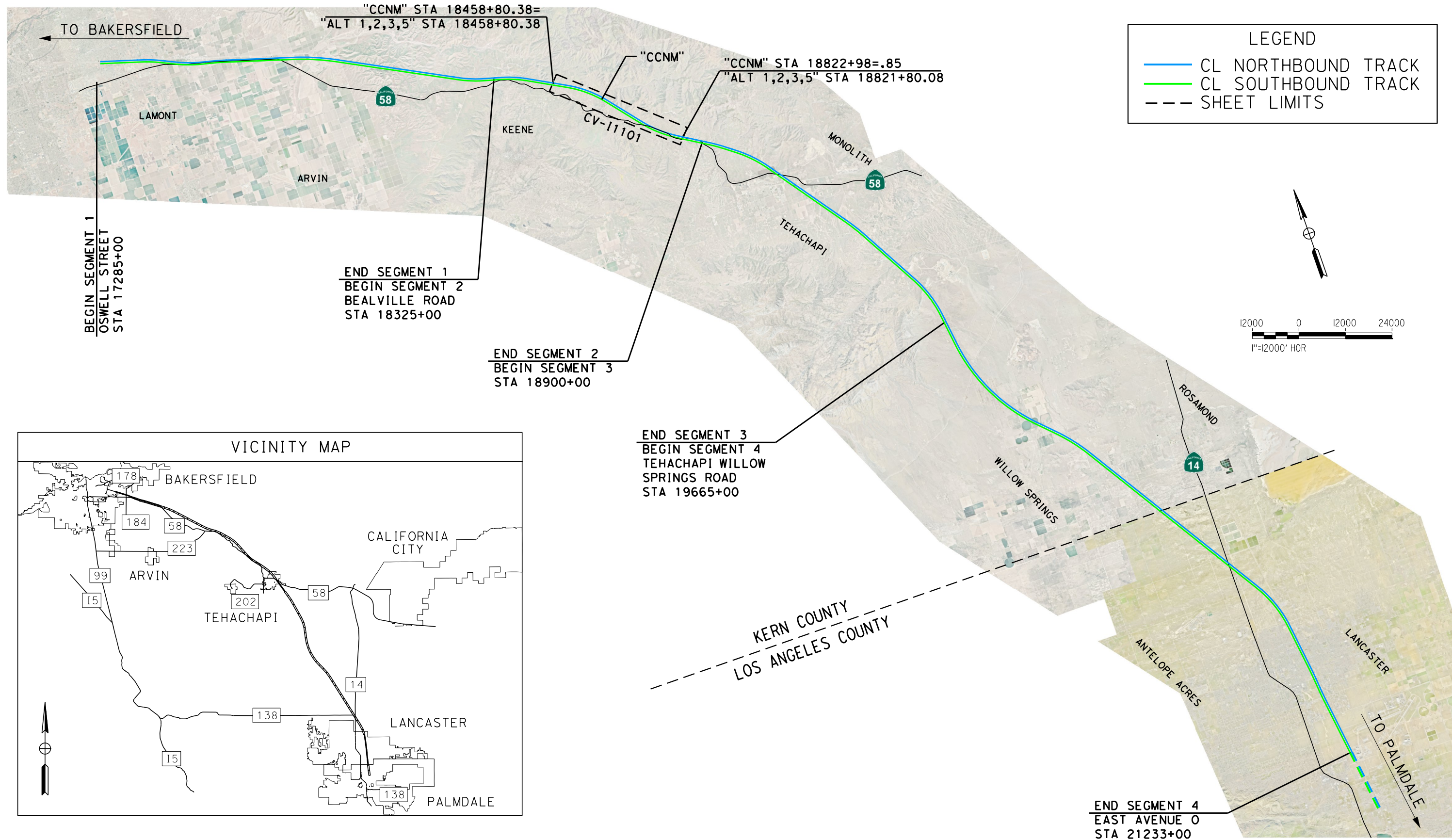
DESIGNED BY  
**J. TURRELL**  
 DRAWN BY  
**A. RIVERA**  
 CHECKED BY  
**G. CAMPBELL**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

**RECORD SET**  
**PEPD SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**



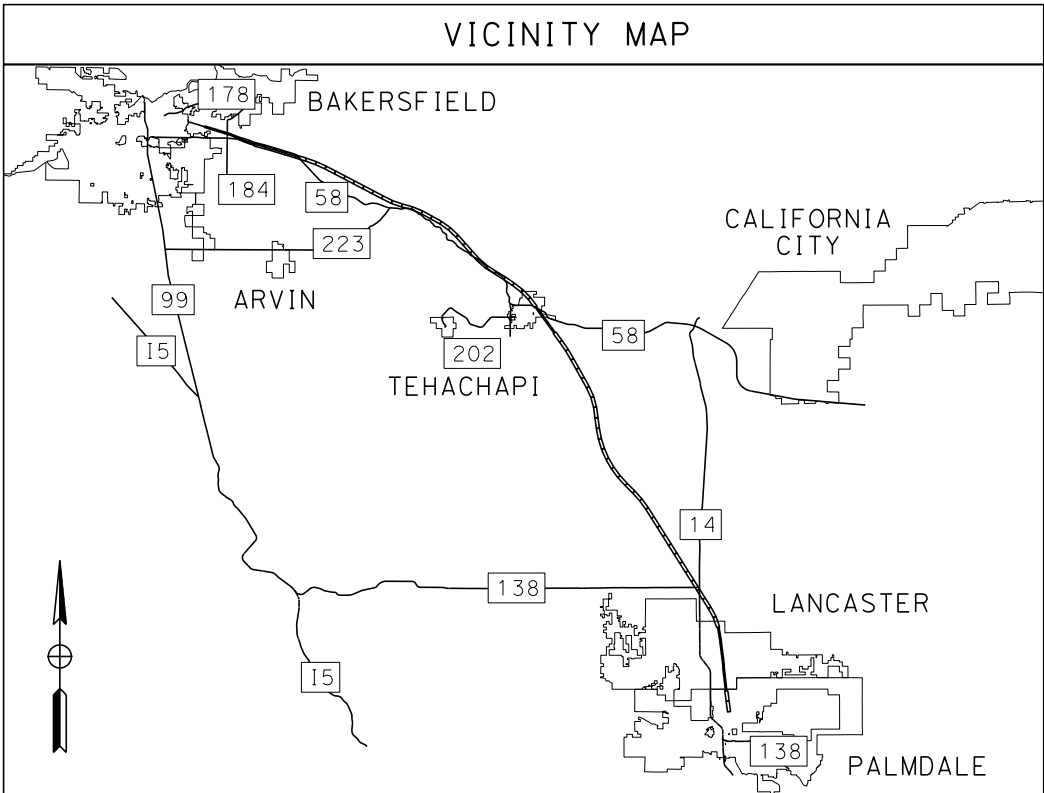
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 CONSTRUCTION SEQUENCING GENERAL  
 NOTES & LEGEND

CONTRACT NO.	HSR13-44
DRAWING NO.	CV-10001
SCALE	NO SCALE
SHEET NO.	47



**LEGEND**

- CL NORTHBOUND TRACK
- CL SOUTHBOUND TRACK
- - - SHEET LIMITS



\$USER: 12/28/2020 11:21:44 PM \$PENTBL: \$PLTDRVS: \$FILE:

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. TURRELL**  
 DRAWN BY  
**A. RIVERA**  
 CHECKED BY  
**G. CAMPBELL**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

**RECORD SET**  
**PEPD SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 CONSTRUCTION SEQUENCING GENERAL  
 KEY MAP

CONTRACT NO.  
 HSR13-44  
 DRAWING NO.  
 CV-10002  
 SCALE  
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**48**

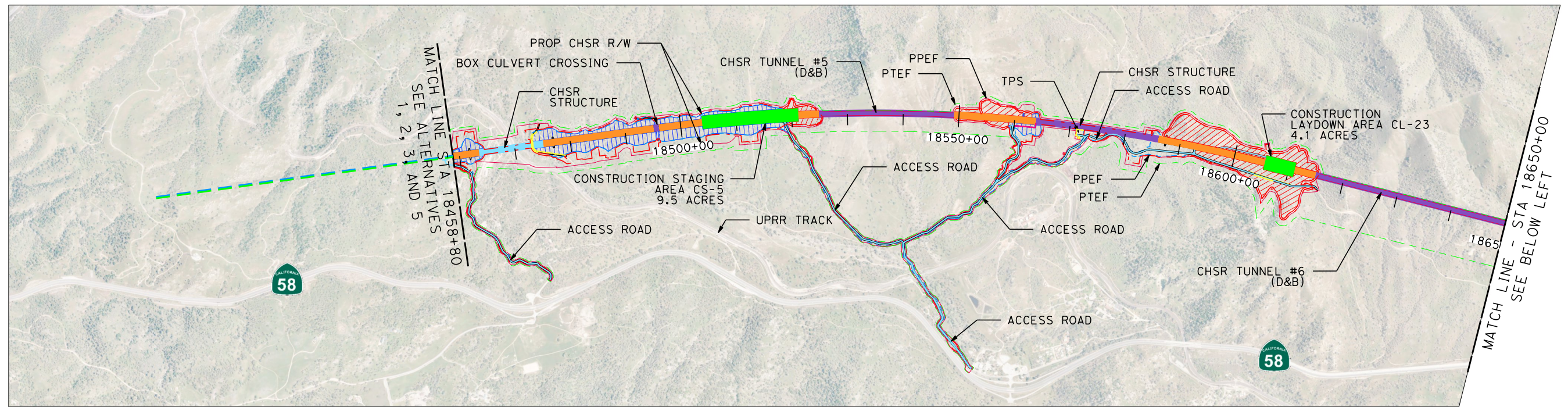


SEGMENT 2

PHASE 1  
"ALL PHASING AT CONTRACTOR'S DISCRETION"

PHASE 2

PHASE 3

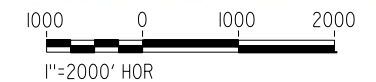
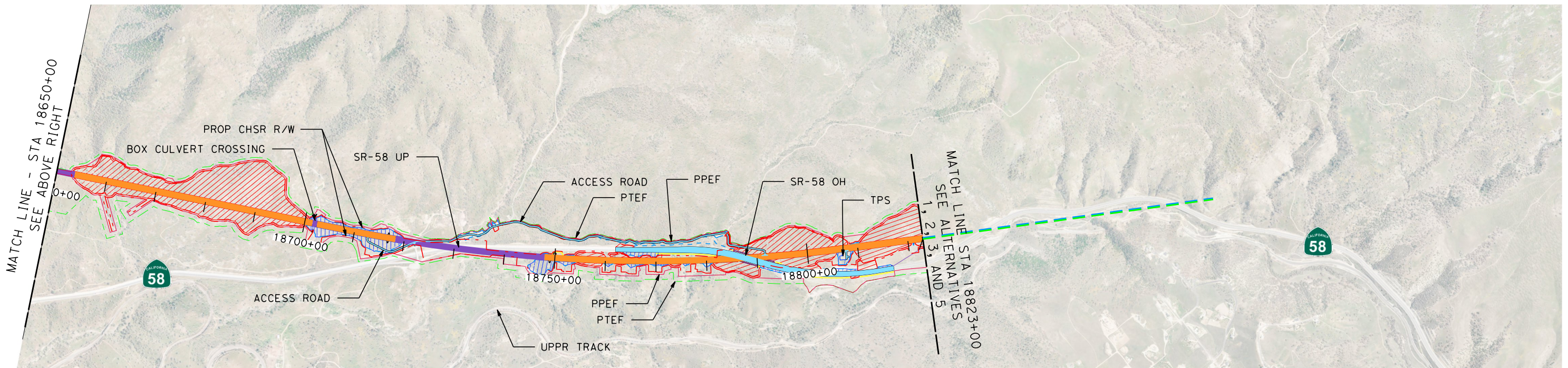


SEGMENT 2

PHASE 1  
"ALL PHASING AT CONTRACTOR'S DISCRETION"

PHASE 2

PHASE 3



\$USER:\$ 1/28/2021 9:41:35 PM \$PENTBL:\$ \$PLTDRVS:\$ \$FILE:\$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. TURRELL**  
 DRAWN BY  
**A. RIVERA**  
 CHECKED BY  
**G. CAMPBELL**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

**RECORD SET**  
**PEPD**  
**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 CONSTRUCTION SEQUENCING  
 SHEET 1 OF 1

CONTRACT NO.  
HSR13-44  
 DRAWING NO.  
CV-11101  
 SCALE  
AS SHOWN  
 SHEET NO.  
49

**LEGEND**

	NORTH ARROW
	OFFSITE DRAINAGE DITCH (OFFSITE DITCH)
	ONSITE DRAINAGE DITCH (ONSITE DITCH)
	ROADWAY DRAINAGE DITCH (ROADWAY DITCH)
	EXISTING STORM DRAIN
	PROPOSED ONSITE STORM DRAIN (ONSITE CULVERT)
	PROPOSED PROFILED OFFSITE STORM DRAIN (OFFSITE CULVERT "XXXXX+XX")
	PROPOSED NON PROFILED OFFSITE STORM DRAIN (SD)
	PROPOSED DRAINAGE BASIN (ONSITE BASIN / COLLECTION BASIN / SPREADER BASIN)
	ROCK SLOPE PROTECTION PAD (RSP)
	DRAINAGE INLET (DI)
	DRAINAGE MANHOLE (MH)
	RETAINING WALL
	PROP CHSR R/W
	CUT GRADING LIMIT (C)
	FILL GRADING LIMIT (F)
	TUNNEL
	VIADUCT
	WILDLIFE CROSSING
	ACCESS ROAD CROSSING PANEL
	100-YEAR FEMA FLOODPLAIN BOUNDARY

**GENERAL NOTES**

NOTES

- CULVERT STATION DESIGNATED AT THE INTERSECTION OF THE CHSR SB CONTROL LINE STATION AND THE CULVERT CENTERLINE.
- RSP, BASIN, AND DITCH LOCATIONS ARE SCHEMATIC. GRADING TO BE PROVIDED DURING FINAL ENGINEERING.
- PROPOSED FINISHED GRADING IS NOT REFLECTED NEAR TUNNEL PORTALS, BRIDGE CONES, TRACK FACILITIES, AND ROADS. GRADING TO BE PROVIDED DURING FINAL ENGINEERING.
- SLOPE FILL TO BE USED, AS NEEDED, TO ALLOW FOR POSITIVE ONSITE DITCH DRAINAGE ABOVE THE PROPOSED OFFSITE DRAINAGE CULVERTS.
- SUBSTANTIAL NATURAL WATERCOURSES THAT HAVE BEEN ENCROACHED INTO BY ACCESS ROAD OR TRACK FILL MAY NEED TO BE REALIGNED. LOCATIONS TO BE LOCATED AND ANALYZED DURING FINAL ENGINEERING.
- TRACTION POWER AND TRAIN CONTROL FACILITY GRADING TO BE PROVIDED DURING FINAL ENGINEERING.
- REFER TO ENGINEERING TECHNICAL MEMO 2.6.5 FOR HYDRAULIC AND HYDROLOGY DESIGN GUIDELINES.
- RSP TO BE PLACED ALONG THE EDGE OF ALL ACCESS ROADS WITHIN FLOODPLAIN BOUNDARIES.

PROFILE NOTES

- PROFILE CUT ALONG CULVERT CENTERLINE.
- CULVERT PROFILES DO NOT REFLECT RSP, BASIN, AND DITCH GRADING.

WATER QUALITY NOTES

- TRACK AND ACCESS ROAD BMP DESIGNS TO BE COMPLETED AFTER CONSULTATION WITH THE APPROPRIATE REGULATORY AGENCIES DURING FINAL ENGINEERING.
- ACCESS ROAD CURB(S) SHALL DIRECT STORMWATER TO STORM DRAIN (SD), SLOPE DOWN DRAIN, AND/OR BMP. SUPERELEVATE ACCESS ROAD, AS NEEDED, TO DIRECT STORMWATER TO BMP.

ROADWAY UNDERCROSSING PUMP STATION NOTE

- ROADWAY UNDERCROSSING PUMP STATION LOCATIONS ARE SCHEMATIC. DESIGN TO BE COMPLETED DURING FINAL ENGINEERING.

UTILITY NOTES

- IT IS ASSUMED THAT ALL EXISTING DRAINAGE UTILITIES THAT ARE LOCATED WITHIN THE HSR TRACK GRADING LIMITS WILL BE REMOVED AND ALL EXISTING DRAINAGE UTILITIES THAT ARE LOCATED WITHIN ROADWAY OR ACCESS ROAD GRADING LIMITS WILL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED ON PLANS.
- THE OFFSITE DISPOSITION/RECONNECTION OF REMOVED DRAINAGE UTILITIES (ITEM 1) WILL BE DETERMINED DURING FINAL ENGINEERING AND IN CONSULTATION WITH THE JURISDICTIONAL AGENCY AND/OR PROPERTY OWNER.
- THE DISPOSITION OF EXISTING DRAINAGE FACILITIES THAT ARE LOCATED ALONGSIDE BUT WITHIN THE PROJECT FOOTPRINT, WILL BE DETERMINED DURING FINAL ENGINEERING.

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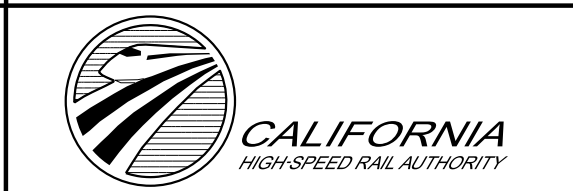
Glenn.Yamanaka@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY <b>G. YAMANAKA</b>
DRAWN BY <b>A. RIVERA</b>
CHECKED BY <b>G. CAMPBELL</b>
IN CHARGE <b>G. CAMPBELL</b>
DATE <b>01/29/2021</b>

**DRAFT  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**

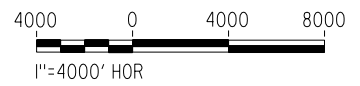
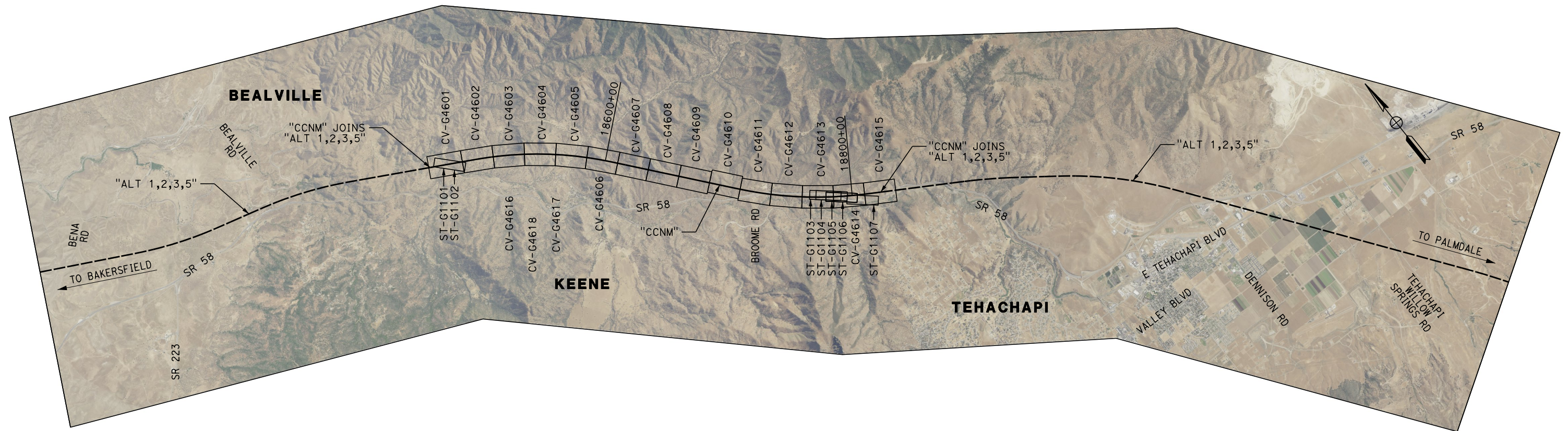
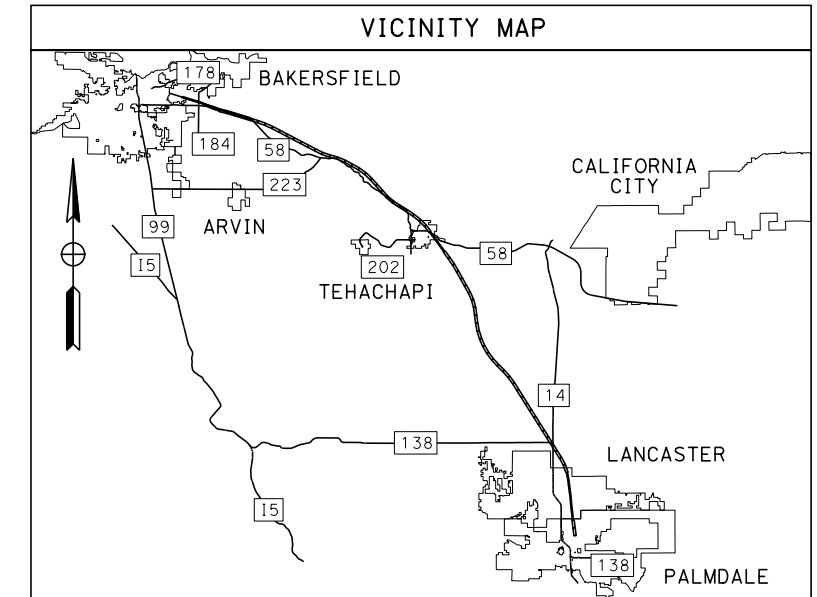


**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
GRADING, DRAINAGE AND RETAINING WALLS GENERAL  
LEGEND, ABBREVIATIONS, AND GENERAL NOTES

CONTRACT NO. <b>HSR13-44</b>
DRAWING NO. <b>CV-G0101</b>
SCALE <b>NO SCALE</b>
SHEET NO. <b>50</b>

# CCNM DESIGN OPTION



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Glenn.Yamanaka@tylin.com 1/13/2021 5:23:52 PM

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY <b>G. YAMANAKA</b>
DRAWN BY <b>A. RIVERA</b>
CHECKED BY <b>G. CAMPBELL</b>
IN CHARGE <b>G. CAMPBELL</b>
DATE <b>01/29/2021</b>

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



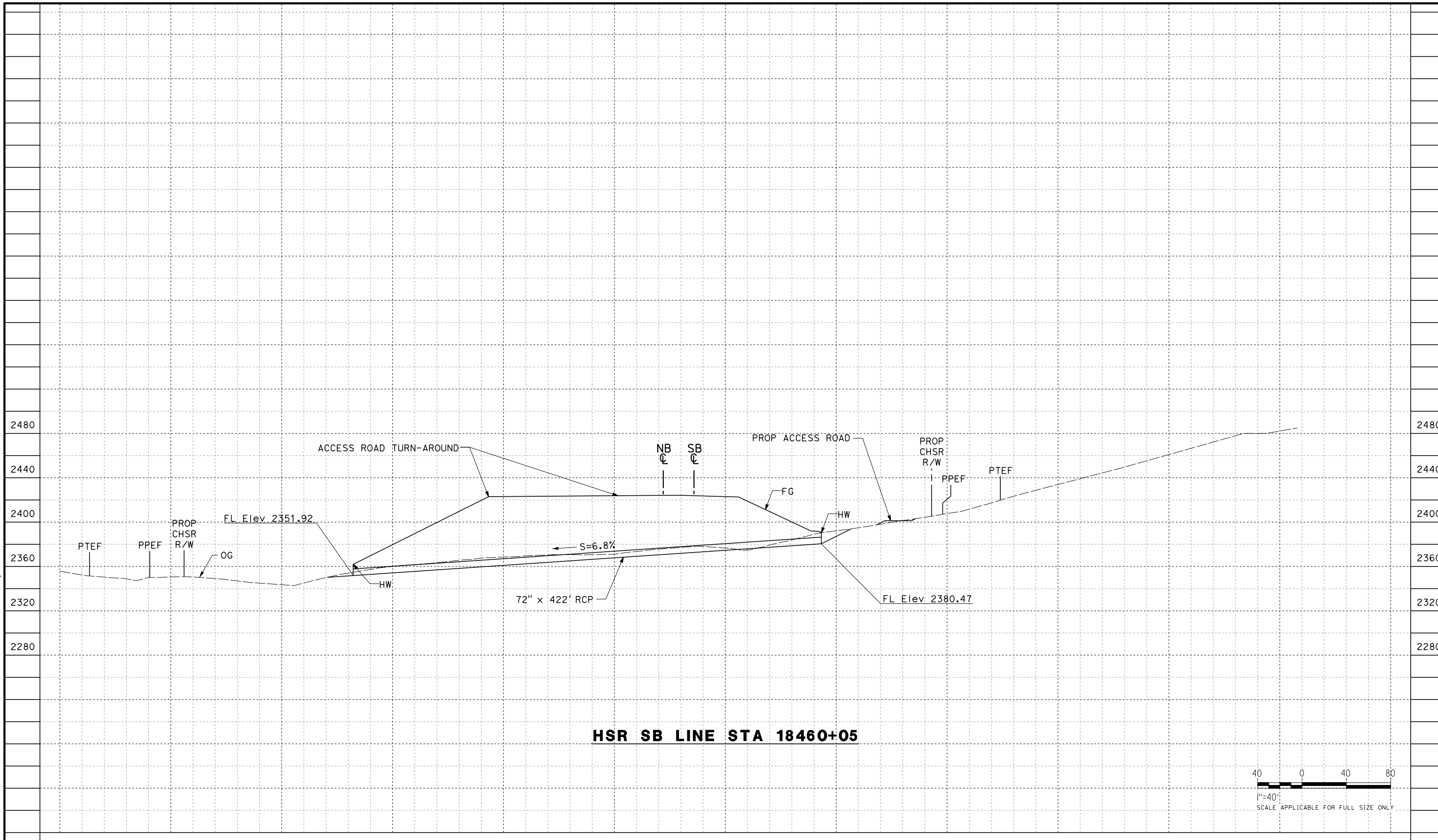
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
GRADING, DRAINAGE AND RETAINING WALLS GENERAL  
KEY MAP

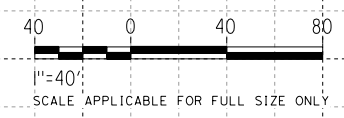
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DRAWING NO. <b>CV-G0102</b>
SCALE <b>AS SHOWN</b>
SHEET NO. <b>51</b>

Projects\701206.00\_CHSRBP\00\_CADD\Sheet Files\CCNM\CV\NBP-CV-G1401A

Glenn.Yamanaka 09/13/2020 09:52:43:32 PM



**HSR SB LINE STA 18460+05**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**G. CAMPBELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**DRAFT  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



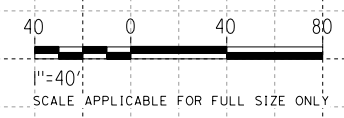
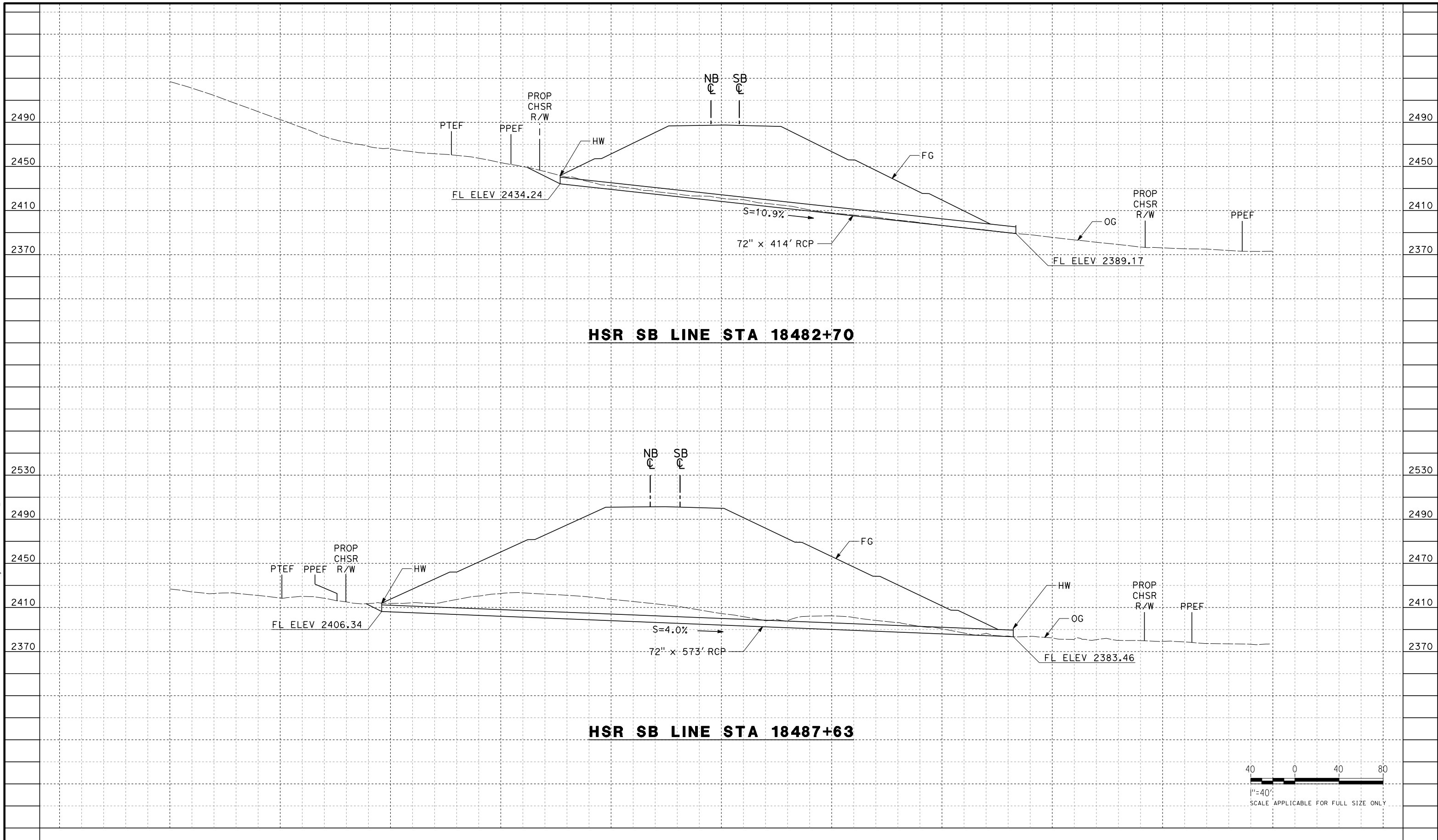
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
GRADING AND DRAINAGE  
OFFSITE CULVERT PROFILE  
STA 18460+05

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
CV-G1401A  
SCALE  
AS SHOWN  
SHEET NO.  
52

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Glenn.Yamanaka 01/29/2021 1:42:29 PM



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**G. CAMPBELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**DRAFT  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



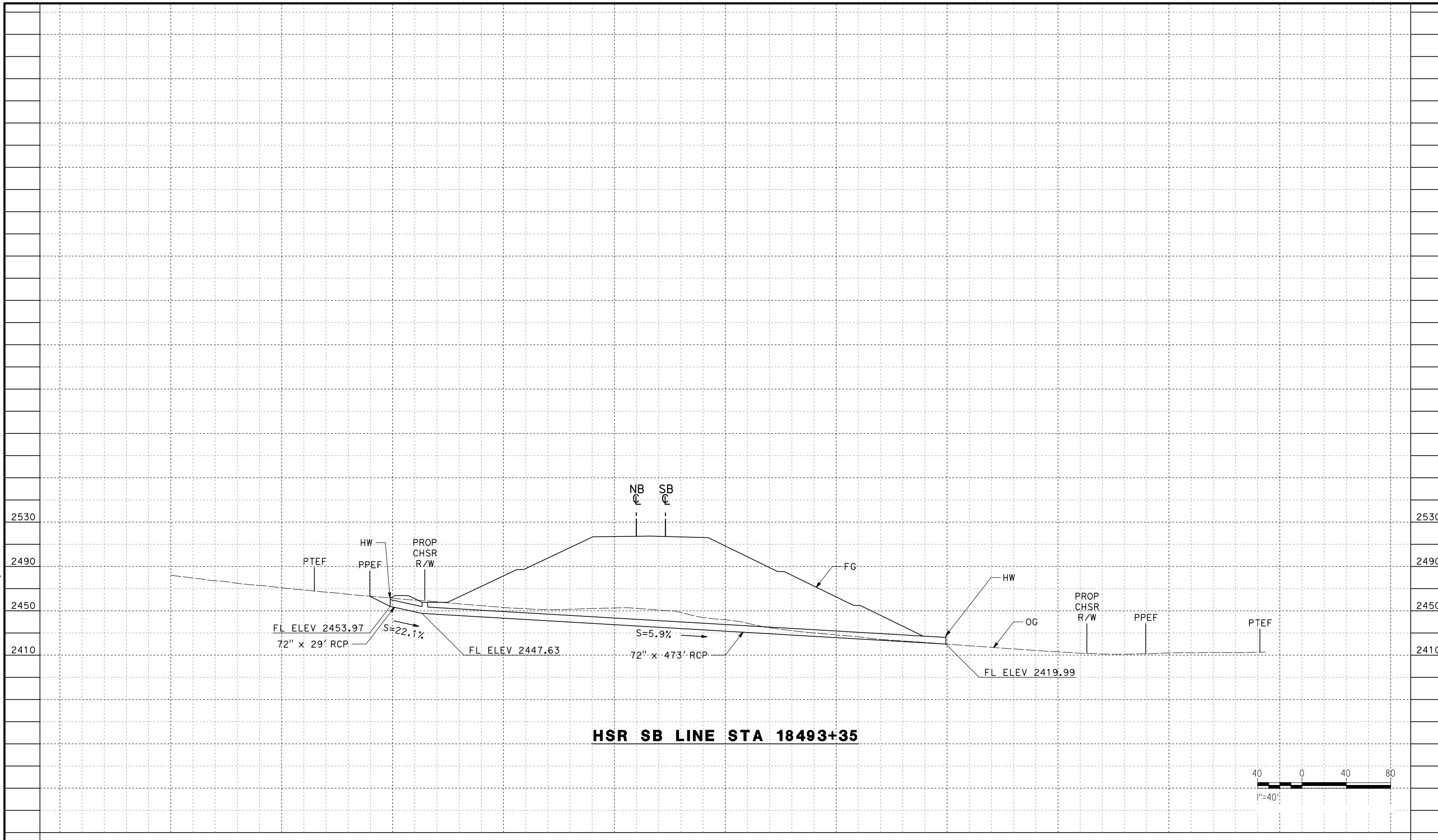
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
GRADING AND DRAINAGE  
OFFSITE CULVERT PROFILE  
STA 18482+70, 18487+63

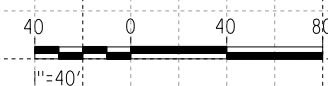
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SCALE  
AS SHOWN  
SHEET NO.  
53

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Glenn.Yamanaka@caltrans.ca.gov 2/20/2021 5:41 PM



**HSR SB LINE STA 18493+35**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**G. CAMPBELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**DRAFT  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



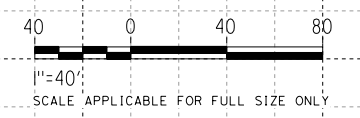
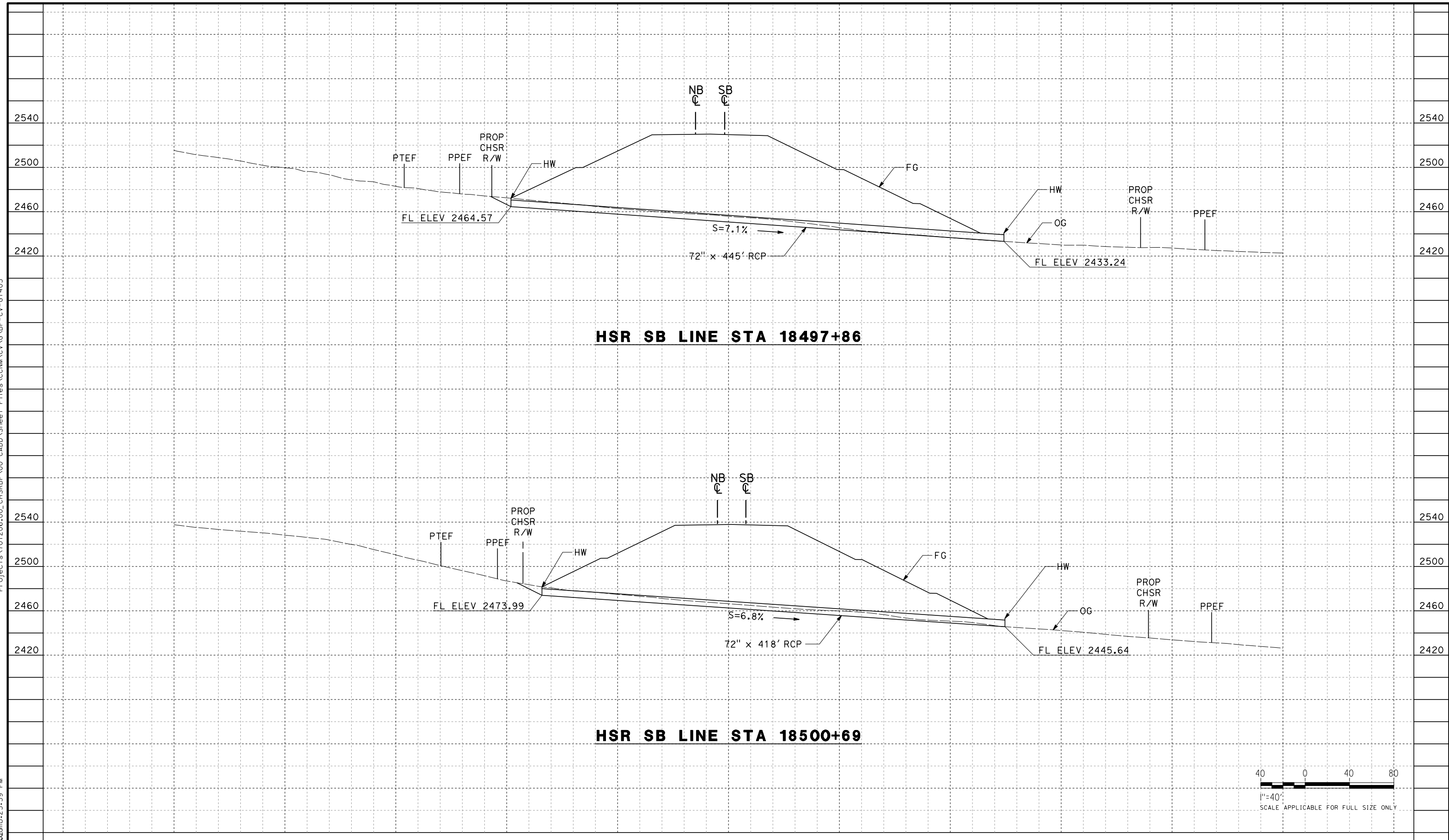
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
GRADING AND DRAINAGE  
OFFSITE CULVERT PROFILE  
STA 18493+35

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
CV-G1402  
SCALE  
AS SHOWN  
SHEET NO.  
54

Projects\T01206.00\_CHSRBP\00\_CADD\Sheet\_Files\CCNM\CV\BP-CV-G1403

Glenn.Yamanaka@tylinc.com 2/20/2021 12:31:59 PM



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**G. CAMPBELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**DRAFT  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



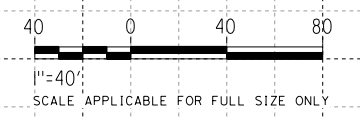
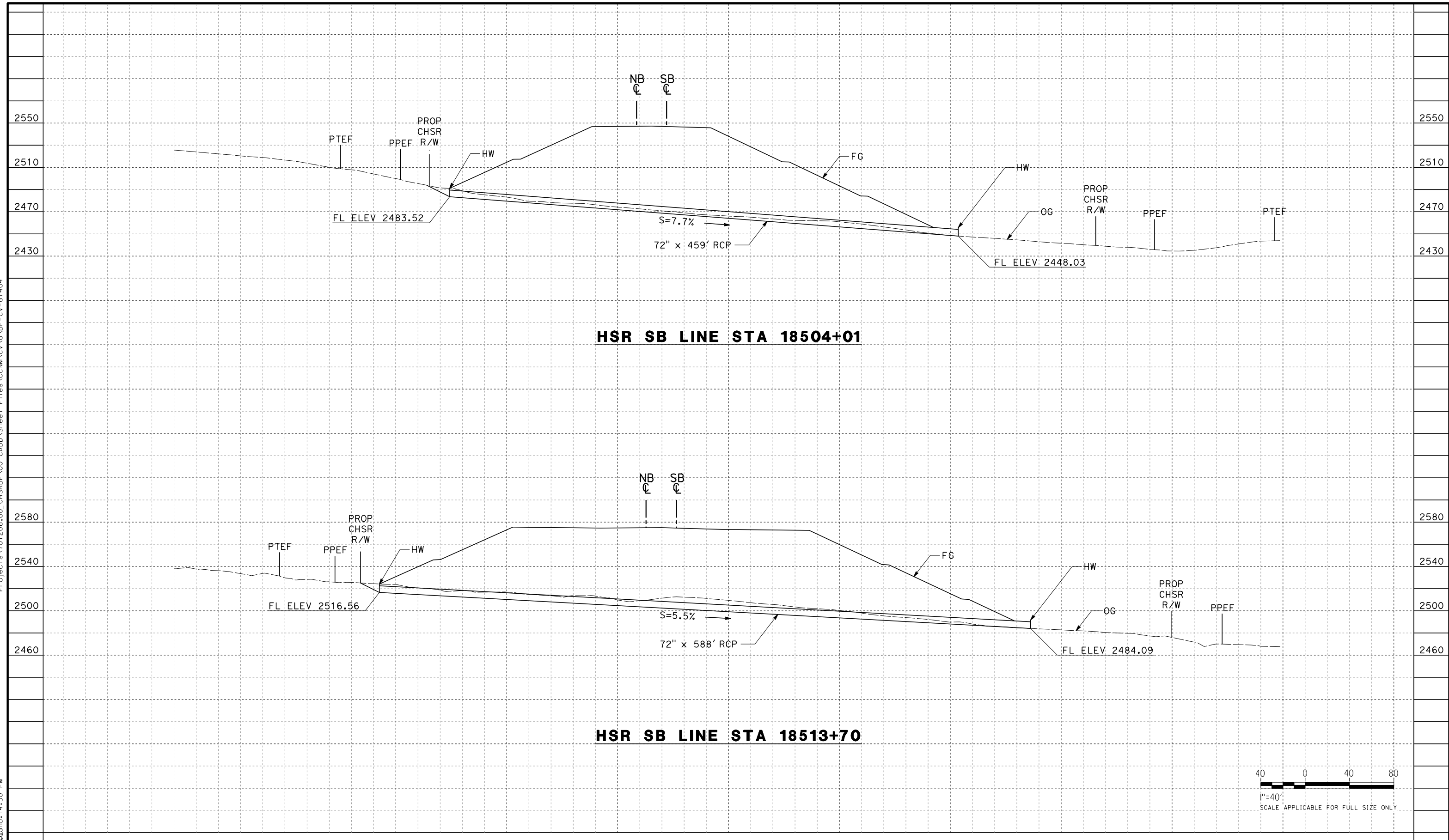
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
GRADING AND DRAINAGE  
OFFSITE CULVERT PROFILE  
STA 18497+86, 18500+69

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
CV-G1403  
SCALE  
AS SHOWN  
SHEET NO.  
55

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**

DRAWN BY  
**A. RIVERA**

CHECKED BY  
**G. CAMPBELL**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

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PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

CCNM DESIGN OPTION  
GRADING AND DRAINAGE  
OFFSITE CULVERT PROFILE  
STA 18504+01, 18513+70

CONTRACT NO.  
HSR13-44

DRAWING NO.  
CV-G1404

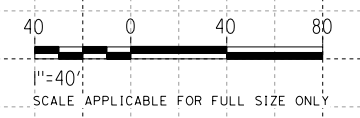
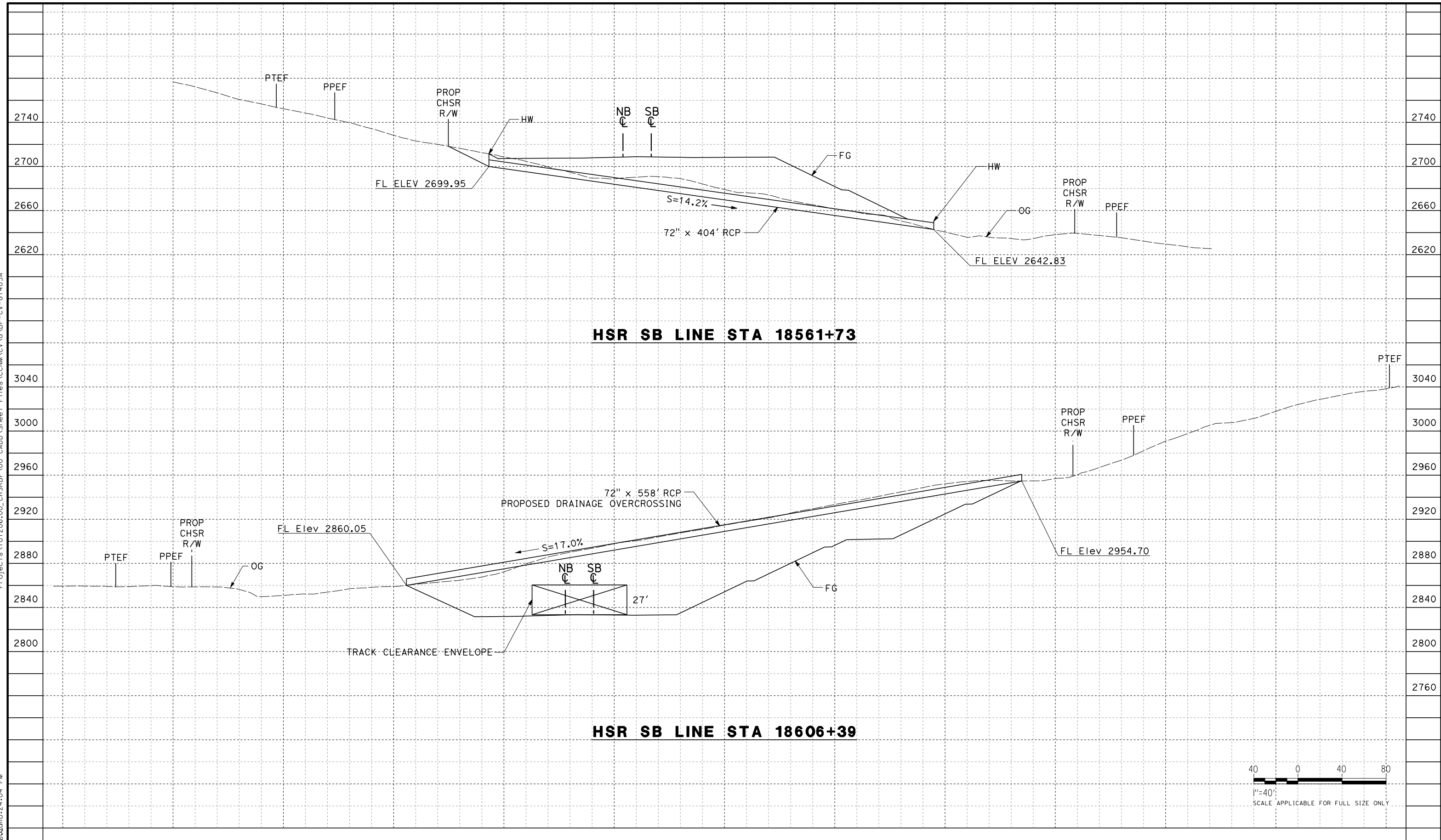
SCALE  
AS SHOWN

SHEET NO.  
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Glenn.Yamanaka 01/29/2021 12:44:04 PM

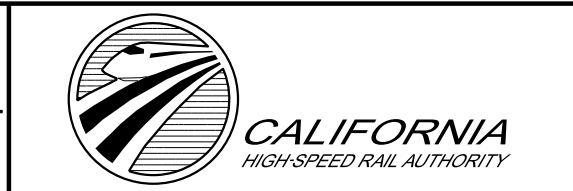


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**G. CAMPBELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**DRAFT  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



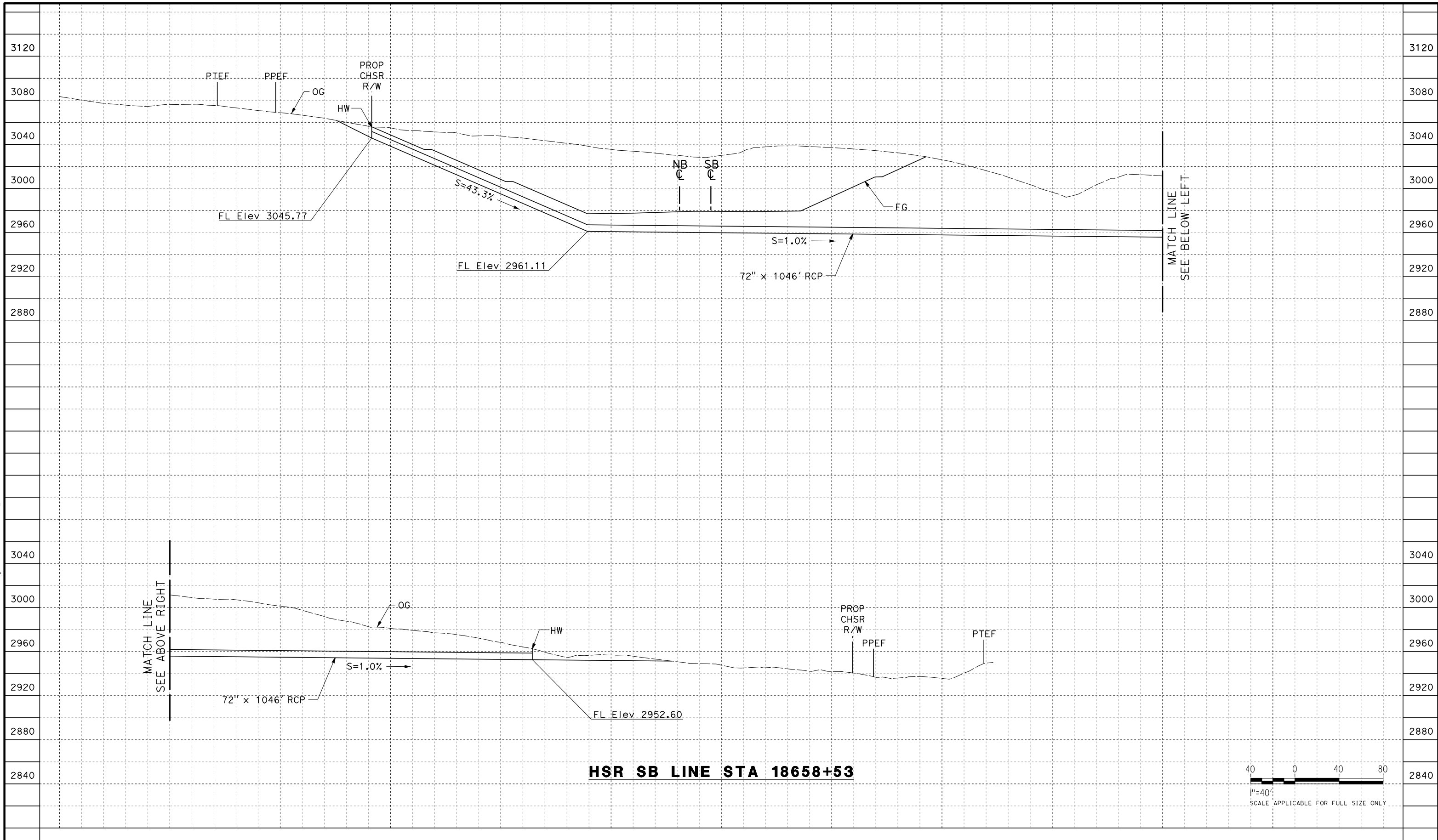
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
GRADING AND DRAINAGE  
OFFSITE CULVERT PROFILE  
STA 18561+73, 18606+39

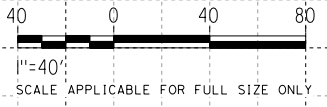
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DRAWING NO.  
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SCALE  
AS SHOWN  
SHEET NO.  
57

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Glenn.Yamanaka 09/13/2020 09:15:29 PM



**HSR SB LINE STA 18658+53**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**G. CAMPBELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**DRAFT  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



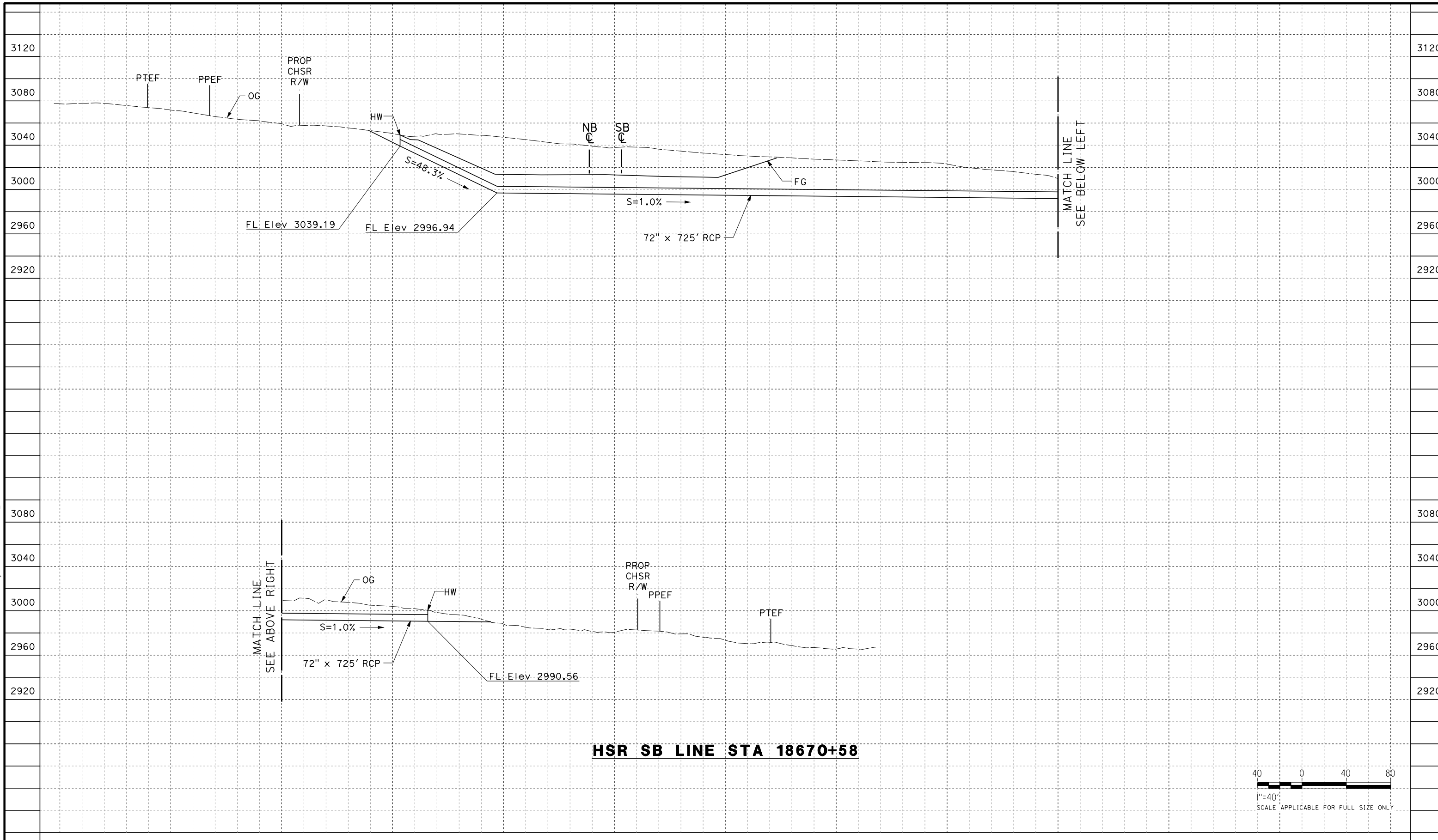
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
GRADING AND DRAINAGE  
OFFSITE CULVERT PROFILE  
STA 18658+53

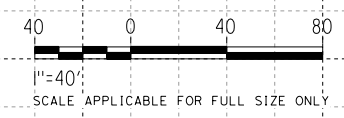
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HSR13-44  
DRAWING NO.  
CV-G1405B  
SCALE  
AS SHOWN  
SHEET NO.  
58

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**HSR SB LINE STA 18670+58**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**G. CAMPBELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**DRAFT  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



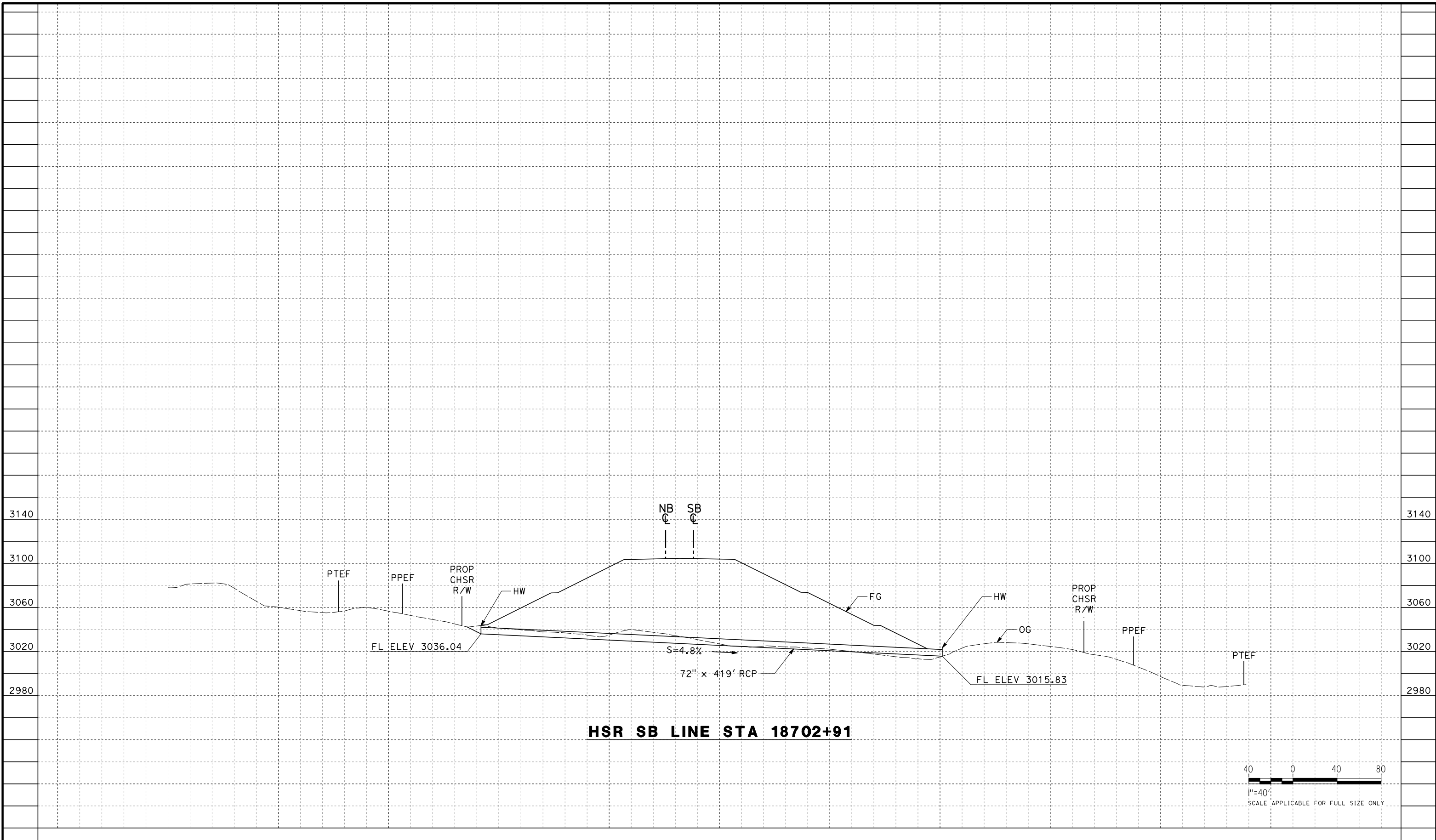
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BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
GRADING AND DRAINAGE  
OFFSITE CULVERT PROFILE  
STA 18670+58

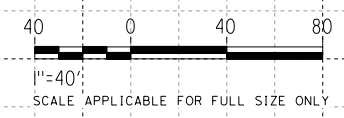
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HSR13-44  
DRAWING NO.  
CV-G1406A  
SCALE  
AS SHOWN  
SHEET NO.  
59

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**HSR SB LINE STA 18702+91**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**G. CAMPBELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**DRAFT  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

CCNM DESIGN OPTION  
GRADING AND DRAINAGE  
OFFSITE CULVERT PROFILE  
STA 18702+91

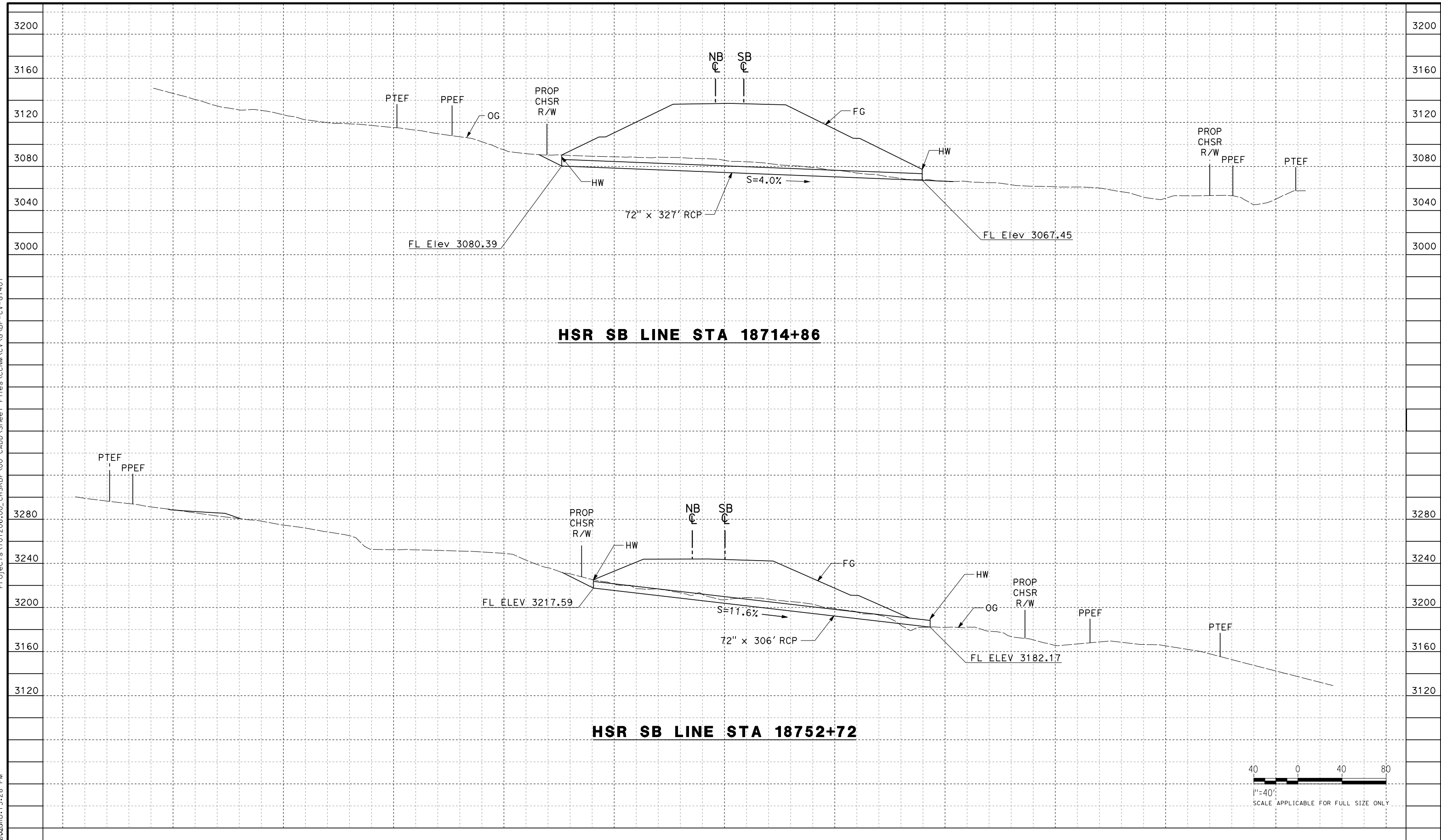
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**HSR13-44**

DRAWING NO.  
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SCALE  
**AS SHOWN**

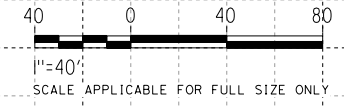
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**60**

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**HSR SB LINE STA 18714+86**

**HSR SB LINE STA 18752+72**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**G. CAMPBELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**DRAFT  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



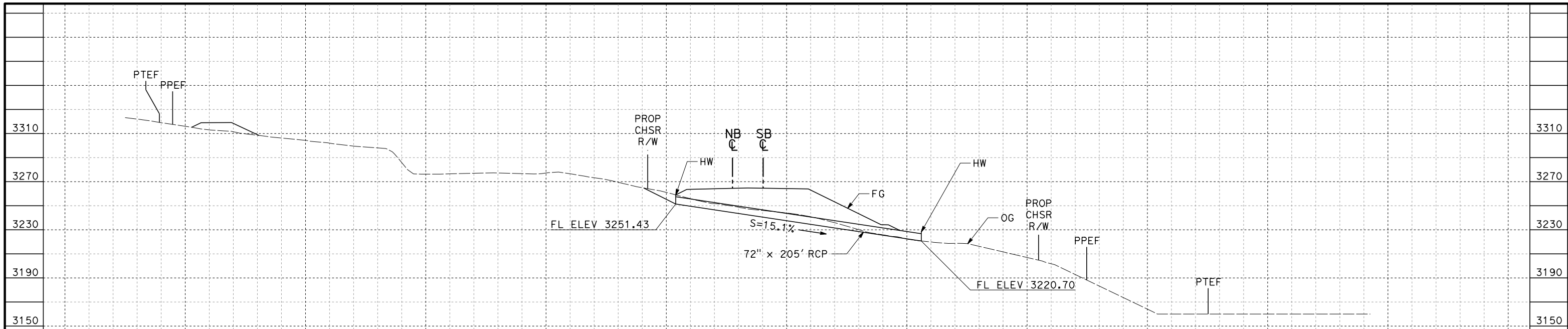
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
GRADING AND DRAINAGE  
OFFSITE CULVERT PROFILE  
STA 18714+86, 18752+72

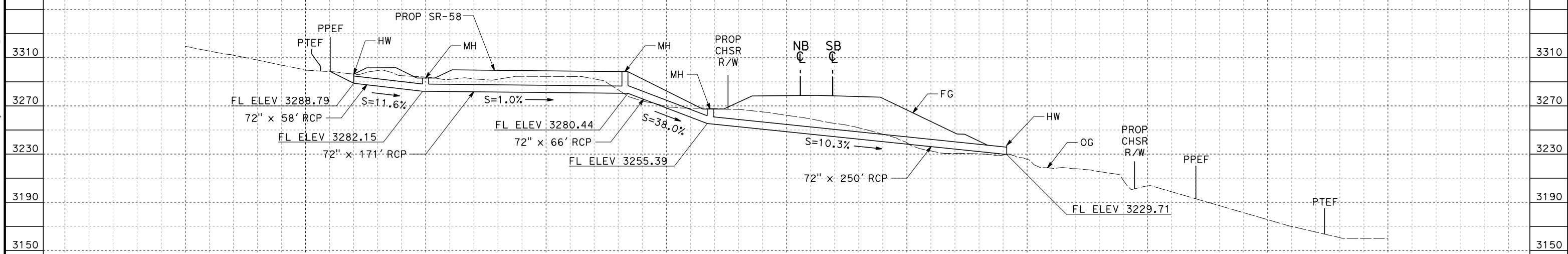
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HSR13-44  
DRAWING NO.  
CV-G1407  
SCALE  
AS SHOWN  
SHEET NO.  
61

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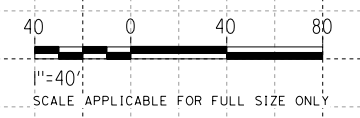
Glenn.Yamanaka 09/13/2020 05:24:08 PM



**HSR SB LINE STA 18760+49**



**HSR SB LINE STA 18765+43**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**G. CAMPBELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**DRAFT  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



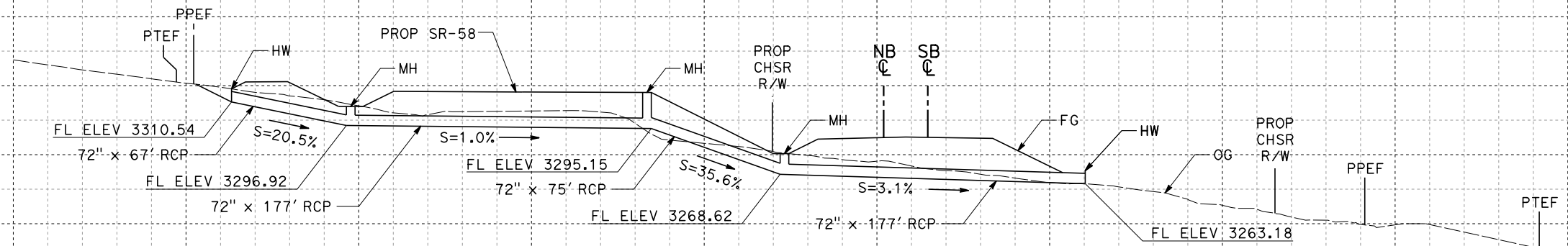
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
GRADING AND DRAINAGE  
OFFSITE CULVERT PROFILE  
STA 18760+49, 18765+43

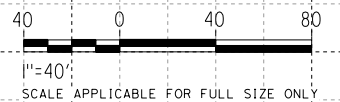
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HSR13-44  
DRAWING NO.  
CV-G1408  
SCALE  
AS SHOWN  
SHEET NO.  
62

Projects\701206.00\_CHSRBP\00\_CADD\Sheet Files\CCNM\CV\BP-CV-G1409

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**HSR SB LINE STA 18769+58**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**G. CAMPBELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**DRAFT  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**

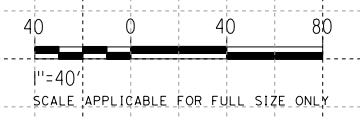
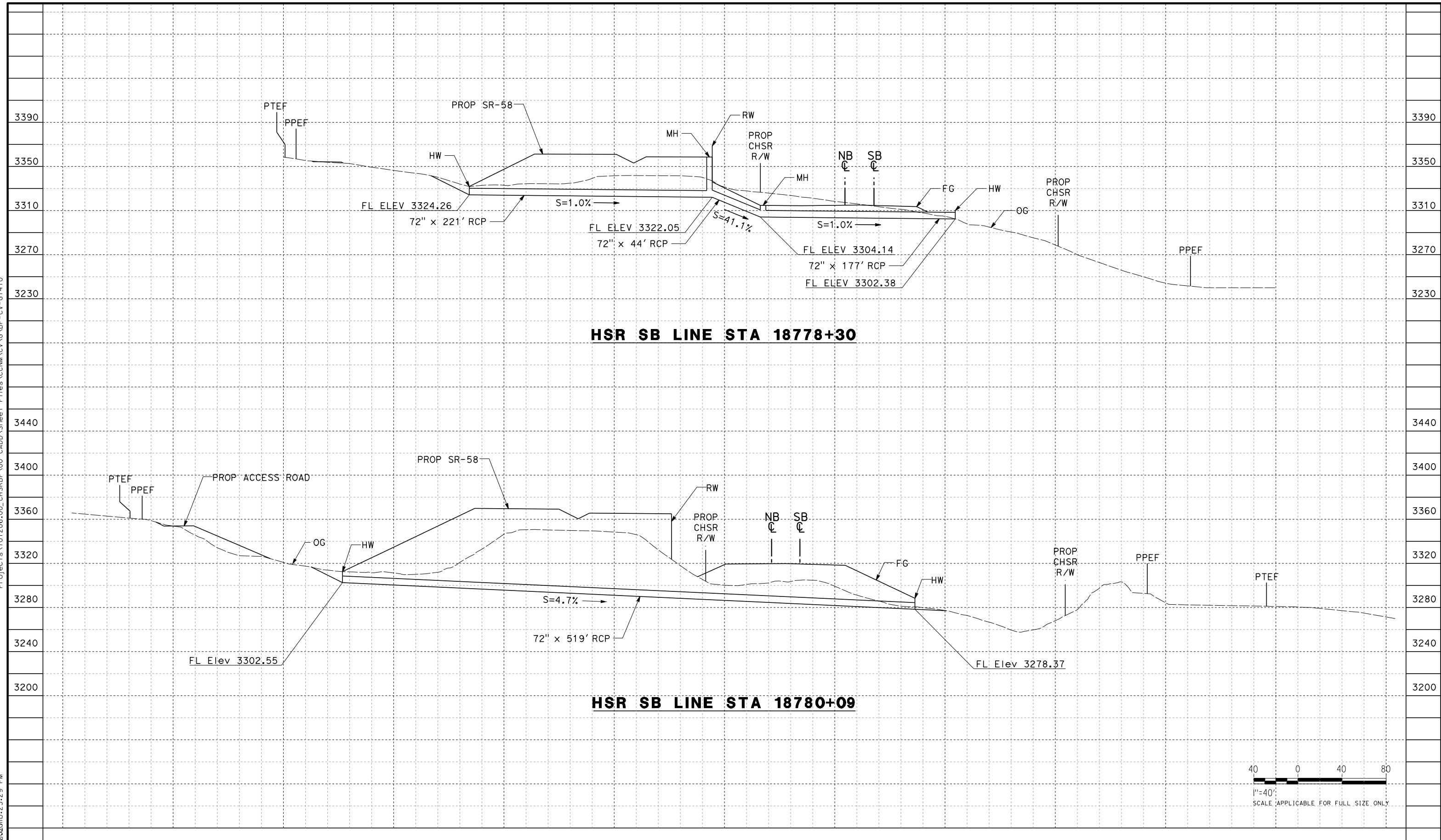


**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION  
GRADING AND DRAINAGE  
OFFSITE CULVERT PROFILE  
STA 18769+58

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**CV-G1409**  
SCALE  
**AS SHOWN**  
SHEET NO.  
**63**

Projects\T01206.00\_CHSRBP\00\_CADD\Sheet Files\CCNM\CV\BP-CV-G1410  
 Glenn.Yamanaka@caltrans.ca.gov 2/20/2021 5:25:29 PM



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**  
 DRAWN BY  
**A. RIVERA**  
 CHECKED BY  
**G. CAMPBELL**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

**DRAFT  
 PECD  
 SUBMITTAL**  
  
**NOT FOR  
 CONSTRUCTION**



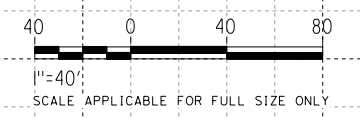
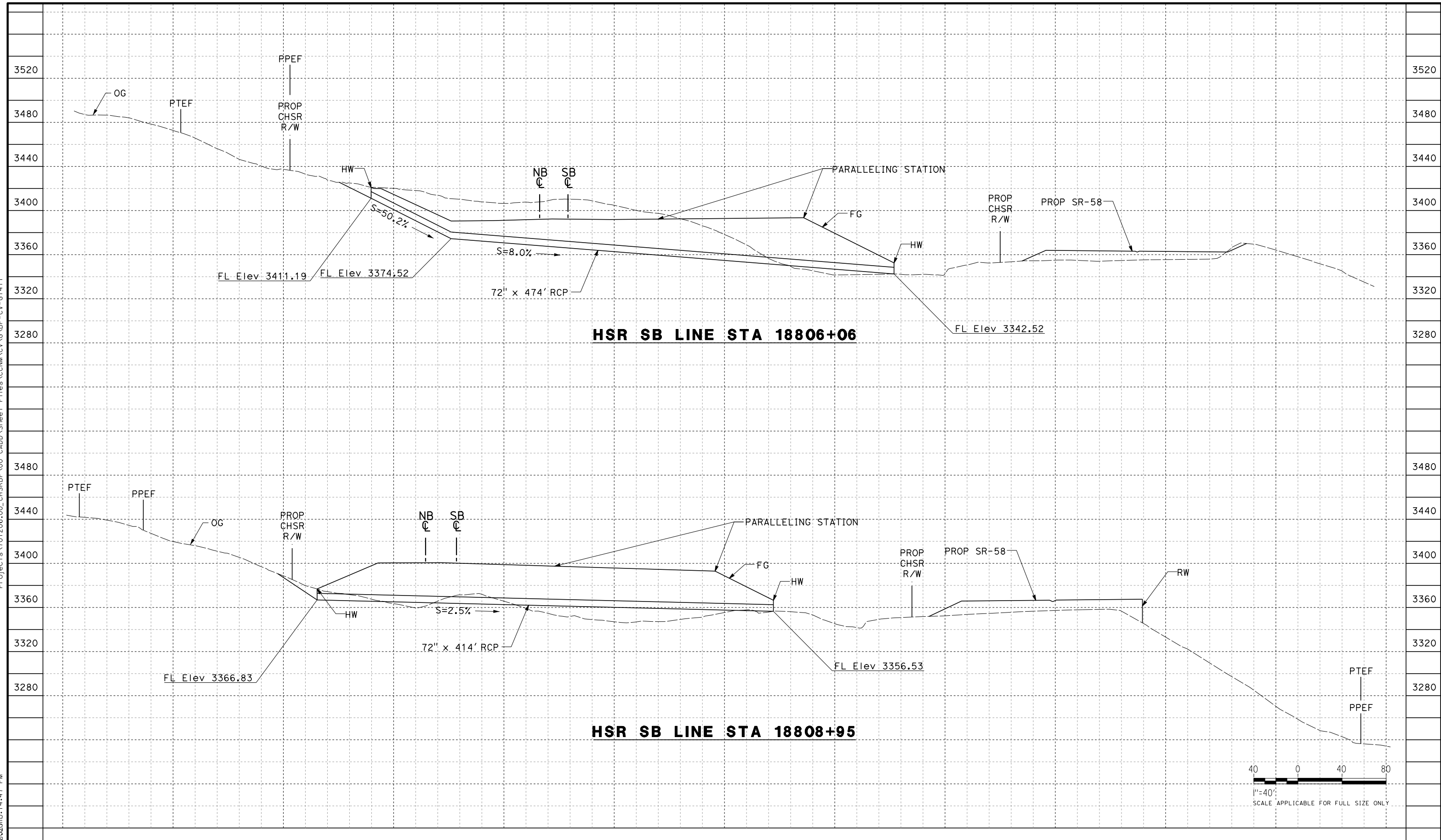
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 CCNM DESIGN OPTION  
 GRADING AND DRAINAGE  
 OFFSITE CULVERT PROFILE  
 STA 18778+30, 18780+09

CONTRACT NO.  
**HSR13-44**  
 DRAWING NO.  
**CV-G1410**  
 SCALE  
**AS SHOWN**  
 SHEET NO.  
**64**



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. YAMANAKA**  
DRAWN BY  
**A. RIVERA**  
CHECKED BY  
**G. CAMPBELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

CCNM DESIGN OPTION  
GRADING AND DRAINAGE  
OFFSITE CULVERT PROFILE  
STA 18806+06, 18808+95

CONTRACT NO.  
**HSR13-44**

DRAWING NO.  
**CV-G1411**

SCALE  
**AS SHOWN**

SHEET NO.  
**65**