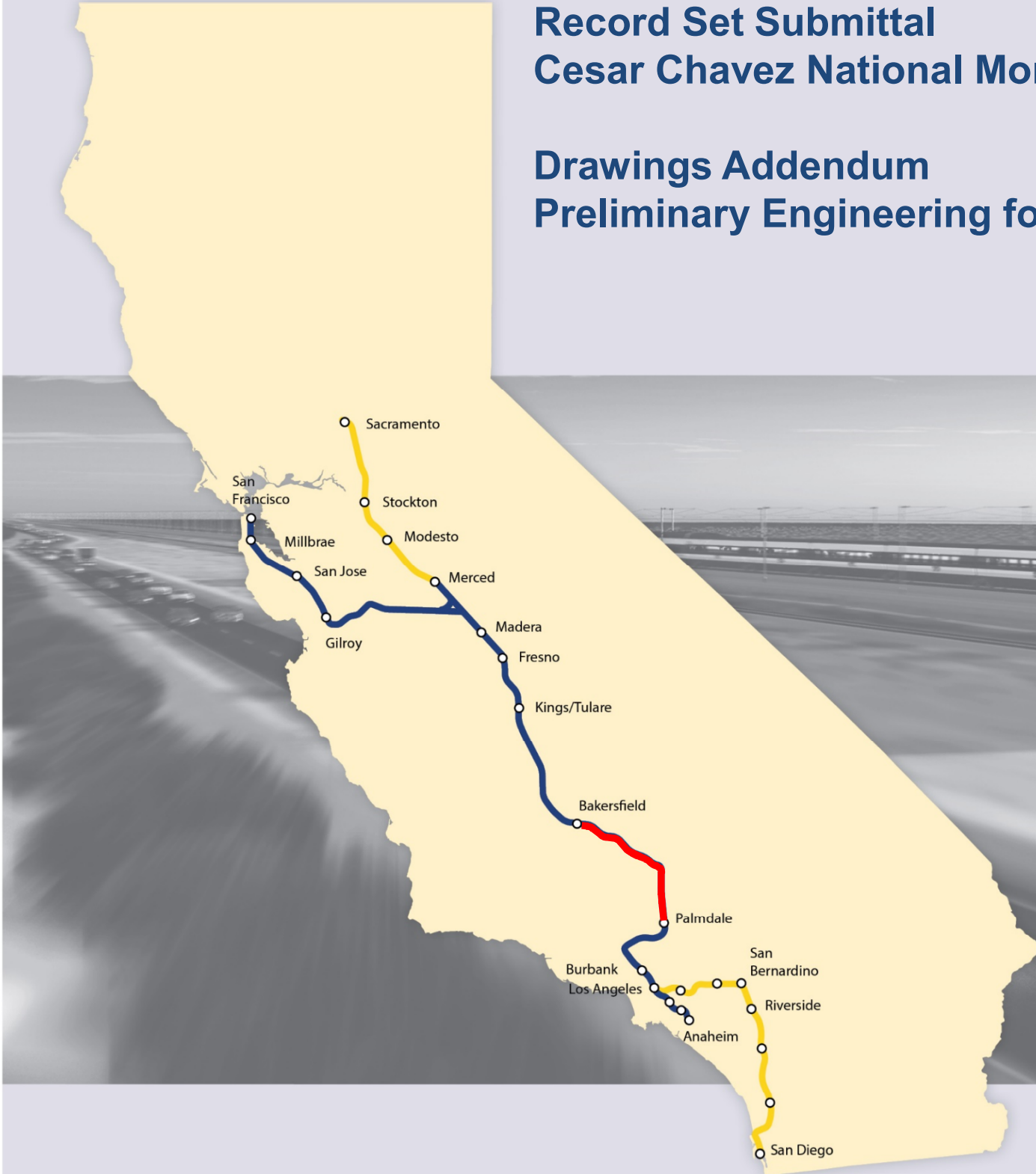


Bakersfield to Palmdale

Record Set Submittal
Cesar Chavez National Monument (CCNM) Design Option

Drawings Addendum
Preliminary Engineering for Project Definition – March 2019



**VOLUME 1
GENERAL SHEETS**

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

ALIGNMENT

DRAWING No.	DRAWING DESCRIPTION
TT-B0101	CCNM DESIGN OPTION - TRACK GENERAL - SYMBOLS, LEGEND, AND GENERAL NOTES - SHEET 1 OF 1
TT-B0102	CCNM DESIGN OPTION - TRACK GENERAL - HORIZONTAL ALIGNMENT DATA TABLE - SHEET 1 OF 1
TT-B3101	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 1 OF 4
TT-B3102	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 2 OF 4
TT-B3103	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 3 OF 4
TT-B3104	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 4 OF 4
TT-C6101	CCNM DESIGN OPTION - TRACK GENERAL - KEY MAP - SHEET 1 OF 1
TT-D1301	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18458+80 TO 18485+00 - PLAN AND PROFILE
TT-D1302	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18485+00 TO 18535+00 - PLAN AND PROFILE
TT-D1303	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18535+00 TO 18585+00 - PLAN AND PROFILE
TT-D1304	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18585+00 TO 18635+00 - PLAN AND PROFILE
TT-D1305	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18635+00 TO 18685+00 - PLAN AND PROFILE
TT-D1306	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18685+00 TO 18735+00 - PLAN AND PROFILE
TT-D1307	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18735+00 TO 18785+00 - PLAN AND PROFILE
TT-D1308	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18785+00 TO 18822+99 - PLAN AND PROFILE
TT-Y5001	CCNM DESIGN OPTION - TRACK GUIDEWAY - ACCESS ROAD TURN-AROUND - DETAILS

ROADWAY

DRAWING No.	DRAWING DESCRIPTION
CV-R0001	CCNM DESIGN OPTION - ROADWAY GENERAL - SYMBOLS, LEGEND, AND GENERAL NOTES - SHEET 1 OF 1
CV-R0002	CCNM DESIGN OPTION - ROADWAY GENERAL - TYPICAL SECTIONS - SHEET 1 OF 2
CV-R0003	CCNM DESIGN OPTION - ROADWAY GENERAL - TYPICAL SECTIONS - SHEET 2 OF 2
CV-R0004	CCNM DESIGN OPTION - ROADWAY GENERAL - KEY MAP - SHEET 1 OF 1
CV-R1599	CCNM DESIGN OPTION - ROADWAY - BOX CULVERT CROSSING "18497" - PLAN AND SECTIONS
CV-R1600	CCNM DESIGN OPTION - ROADWAY - BOX CULVERT CROSSING "18700" - PLAN AND SECTIONS
CV-R1601	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18473" - PLAN AND PROFILE
CV-R1602	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18495" - PLAN AND PROFILE
CV-R1603	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18616" - PLAN AND PROFILE
CV-R1604	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18701" - PLAN AND PROFILE
CV-R1605	CCNM DESIGN OPTION - ROADWAY - EASTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1606	CCNM DESIGN OPTION - ROADWAY - EASTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1607	CCNM DESIGN OPTION - ROADWAY - EASTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1608	CCNM DESIGN OPTION - ROADWAY - WESTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1609	CCNM DESIGN OPTION - ROADWAY - WESTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1610	CCNM DESIGN OPTION - ROADWAY - WESTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1612	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18519" - HORIZONTAL ALIGNMENT DATA TABLE
CV-R1613	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18519" - PLAN AND PROFILE
CV-R1614	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18560" - PLAN AND PROFILE
CV-R1615	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18593" - HORIZONTAL ALIGNMENT DATA TABLE
CV-R1616	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18593" - PLAN AND PROFILE
CV-R1618	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18713" - PLAN AND PROFILE
CV-R1619	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18790" - HORIZONTAL ALIGNMENT DATA TABLE
CV-R1620	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18790" - PLAN AND PROFILE
CV-R1621	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18790" - PLAN AND PROFILE

**VOLUME 2
CONSTRUCTION SEQUENCING**

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

GRADING, DRAINAGE AND RETAINING WALLS

DRAWING No.	DRAWING DESCRIPTION
CV-G0101	CCNM DESIGN OPTION - GRADING, DRAINAGE AND RETAINING WALLS GENERAL - LEGEND, ABBREVIATIONS, AND GENERAL NOTES
CV-G0102	CCNM DESIGN OPTION - GRADING, DRAINAGE AND RETAINING WALLS GENERAL - KEY MAP - SHEET 1 OF 1
CV-G1401	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18482+70, 18487+63 - OFFSITE CULVERT PROFILE
CV-G1402	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18493+35 - OFFSITE CULVERT PROFILE
CV-G1403	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18497+86, 18500+69 - OFFSITE CULVERT PROFILE
CV-G1404	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18504+01, 18513+70 - OFFSITE CULVERT PROFILE
CV-G1405	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18561+59, 18658+50 - OFFSITE CULVERT PROFILE
CV-G1406	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18670+42, 18703+22 - OFFSITE CULVERT PROFILE
CV-G1407	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18714+89, 18752+96 - OFFSITE CULVERT PROFILE
CV-G1408	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18760+49, 18765+43 - OFFSITE CULVERT PROFILE
CV-G1409	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18769+58, 18771+12 - OFFSITE CULVERT PROFILE
CV-G1410	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18778+37, 18780+95 - OFFSITE CULVERT PROFILE
CV-G1411	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18805+46, 18808+99 - OFFSITE CULVERT PROFILE
CV-G4601	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18458+80 TO 18485+00 - PLAN
CV-G4602	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18485+00 TO 18510+00 - PLAN
CV-G4603	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18510+00 TO 18535+00 - PLAN
CV-G4604	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18535+00 TO 18560+00 - PLAN
CV-G4605	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18560+00 TO 18585+00 - PLAN
CV-G4606	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18585+00 TO 18610+00 - PLAN
CV-G4607	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18610+00 TO 18635+00 - PLAN
CV-G4608	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18635+00 TO 18660+00 - PLAN
CV-G4609	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18660+00 TO 18685+00 - PLAN
CV-G4610	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18685+00 TO 18710+00 - PLAN
CV-G4611	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18710+00 TO 18735+00 - PLAN
CV-G4612	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18735+00 TO 18760+00 - PLAN
CV-G4613	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18760+00 TO 18785+00 - PLAN
CV-G4614	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18785+00 TO 18810+00 - PLAN
CV-G4615	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18810+00 TO 18822+99 - PLAN
CV-G4616	CCNM DESIGN OPTION - GRADING AND DRAINAGE - ACCESS ROAD STA 18519+00 - PLAN
CV-G4617	CCNM DESIGN OPTION - GRADING AND DRAINAGE - ACCESS ROAD STA 18560+00 - PLAN
CV-G4618	CCNM DESIGN OPTION - GRADING AND DRAINAGE - ACCESS ROAD STA 18519+00 - PLAN
ST-G1101	CCNM DESIGN OPTION - RETAINING WALL - 18473 - PLAN AND PROFILE
ST-G1102	CCNM DESIGN OPTION - RETAINING WALL - 18474 - PLAN AND PROFILE
ST-G1103	CCNM DESIGN OPTION - RETAINING WALL - 18769 (STATE ROUTE 58) - PLAN AND PROFILE
ST-G1104	CCNM DESIGN OPTION - RETAINING WALL - 18781 AND 18783 (STATE ROUTE 58) - PLAN AND PROFILE
ST-G1105	CCNM DESIGN OPTION - RETAINING WALL - 18789 AND 18790 (STATE ROUTE 58) - PLAN AND PROFILE
ST-G1106	CCNM DESIGN OPTION - RETAINING WALL - 18792 (STATE ROUTE 58) - PLAN AND PROFILE
ST-G1107	CCNM DESIGN OPTION - RETAINING WALL - STATE ROUTE 58 - PLAN AND PROFILE

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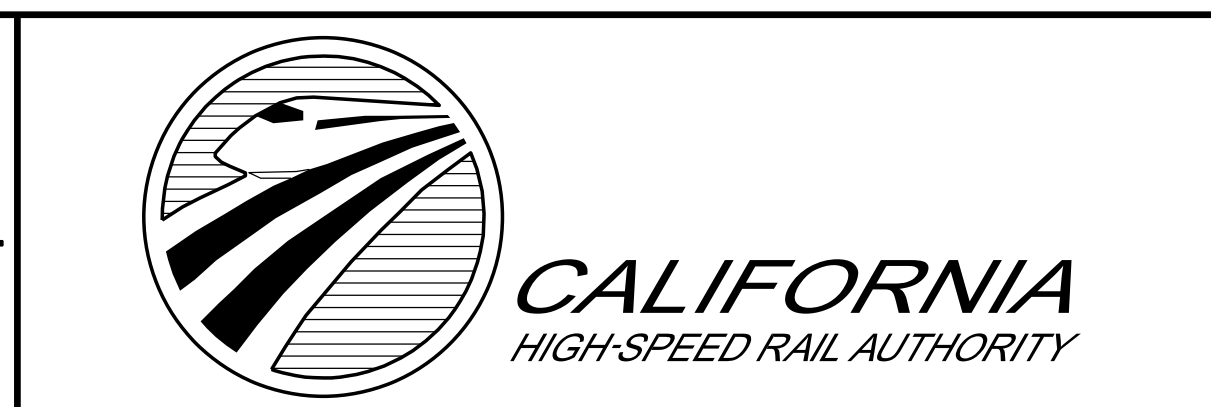
jmeredit\h

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. LANDOLT
DRAWN BY A. RIVERA
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 03/06/2019

**RECORD
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.

VOLUME 3 TRACK AND ROADWAY STRUCTURES

DRAWING No.	DRAWING DESCRIPTION
ST-J0001	CCNM DESIGN OPTION - TRACK AND ROADWAY STRUCTURES - GENERAL NOTES AND LEGEND
ST-J0002	CCNM DESIGN OPTION - TRACK AND ROADWAY STRUCTURES - KEY MAP
ST-J0003	CCNM DESIGN OPTION - GENERAL - TYPICAL SECTIONS - SHEET 1 OF 3
ST-J0004	CCNM DESIGN OPTION - GENERAL - TYPICAL SECTIONS - SHEET 2 OF 3
ST-J0005	CCNM DESIGN OPTION - GENERAL - TYPICAL SECTIONS - SHEET 3 OF 3
ST-J1201	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18463+56 TO 18475+16 - PLAN AND ELEVATION
ST-J1202	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18463+56 TO 18475+16 - PLAN AND ELEVATION
ST-J1203	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18564+23 TO 18585+67 - PLAN AND ELEVATION
ST-J1204	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18564+23 TO 18585+67 - PLAN AND ELEVATION
ST-J1205	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18564+23 TO 18585+67 - PLAN AND ELEVATION
ST-J1206	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18718+57 TO 18747+94 - PLAN AND ELEVATION
ST-J1207	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18718+57 TO 18747+94 - PLAN AND ELEVATION
ST-J1208	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18718+57 TO 18747+94 - PLAN AND ELEVATION
ST-K1101	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 EB OVERHEAD - PLAN AND ELEVATION
ST-K1102	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 EB OVERHEAD - PLAN AND ELEVATION
ST-K1103	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 EB OVERHEAD - TYPICAL SECTION
ST-K1104	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 WB OVERHEAD - PLAN AND ELEVATION
ST-K1105	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 WB OVERHEAD - PLAN AND ELEVATION
ST-K1106	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 WB OVERHEAD - TYPICAL SECTION

TRACTION POWER

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

AUTOMATIC TRAIN CONTROL

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

TUNNEL

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

VOLUME 4 UTILITIES

DRAWING No.	DRAWING DESCRIPTION
UT-B0001	CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - ABBREVIATIONS AND LEGEND
UT-B0002	CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - GENERAL NOTES AND UTILITY OWNERS
UT-B0003	CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - KEY MAP - SHEET 1 OF 1
UT-C4601	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18458+80 TO 18485+00 - PLAN
UT-C4602	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18485+00 TO 18510+00 - PLAN
UT-C4603	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18510+00 TO 18535+00 - PLAN
UT-C4604	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18535+00 TO 18560+00 - PLAN
UT-C4605	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18560+00 TO 18585+00 - PLAN
UT-C4606	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18585+00 TO 18610+00 - PLAN
UT-C4607	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18610+00 TO 18635+00 - PLAN
UT-C4608	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18635+00 TO 18660+00 - PLAN
UT-C4609	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18660+00 TO 18685+00 - PLAN
UT-C4610	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18685+00 TO 18710+00 - PLAN
UT-C4611	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18710+00 TO 18735+00 - PLAN
UT-C4612	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18735+00 TO 18760+00 - PLAN
UT-C4613	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18760+00 TO 18785+00 - PLAN
UT-C4614	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18785+00 TO 18810+00 - PLAN
UT-C4615	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18810+00 TO 18822+99 - PLAN

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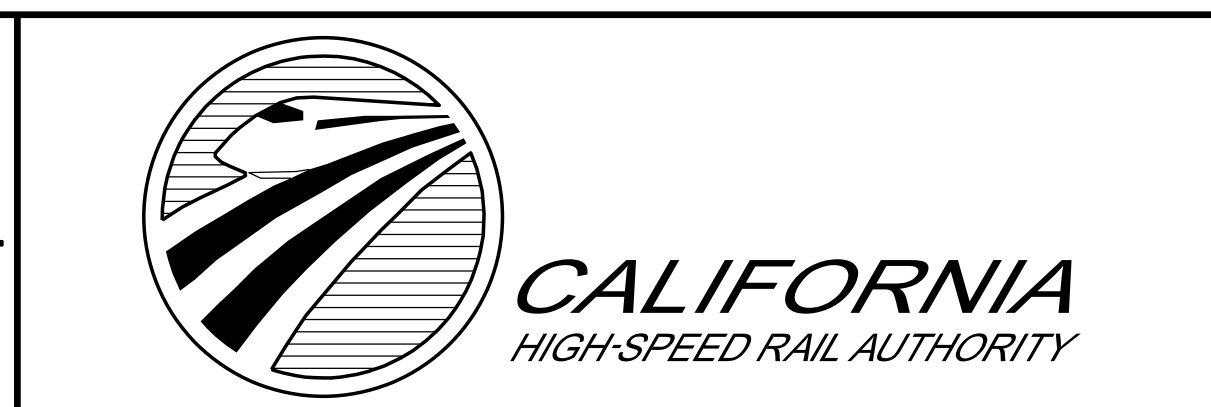
jmeredith

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. LANDOLT
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CHECKED BY S. LANDOLT
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BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
GENERAL
INDEX OF DRAWING
SHEET 2 OF 2

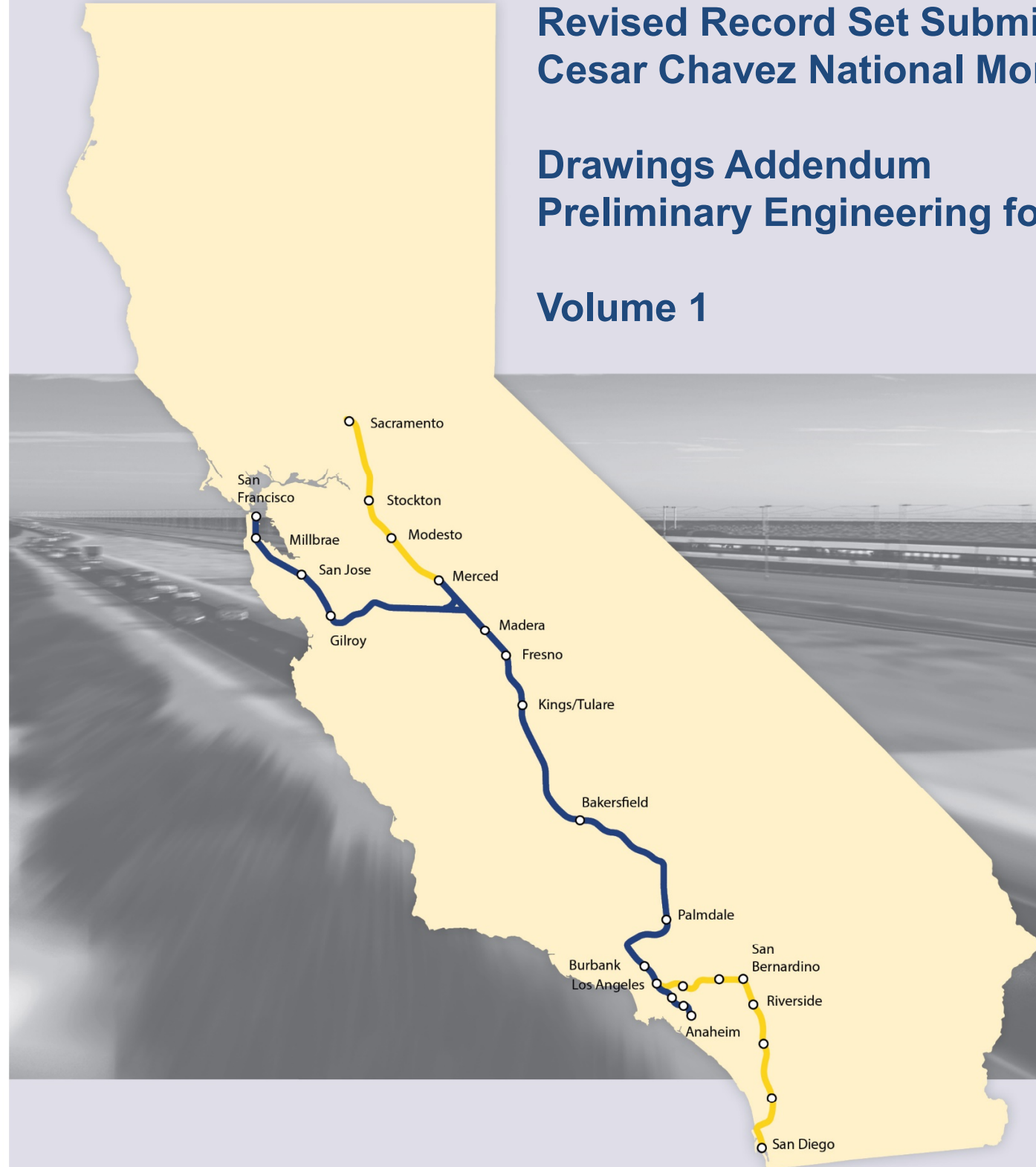
CONTRACT NO. HSR13-44
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Bakersfield to Palmdale

Revised Record Set Submittal
Cesar Chavez National Monument (CCNM) Design Option

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Preliminary Engineering for Project Definition – March 2019

Volume 1



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GE-B0005	CCNM DESIGN OPTION - GENERAL - ABBREVIATIONS - SHEET 2 OF 3
GE-B0006	CCNM DESIGN OPTION - GENERAL - ABBREVIATIONS - SHEET 3 OF 3

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TT-B3102	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 2 OF 4
TT-B3103	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 3 OF 4
TT-B3104	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 4 OF 4
TT-C6101	CCNM DESIGN OPTION - TRACK GENERAL - KEY MAP - SHEET 1 OF 1
TT-D1301	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18458+80 TO 18485+00 - PLAN AND PROFILE
TT-D1302	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18485+00 TO 18535+00 - PLAN AND PROFILE
TT-D1303	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18535+00 TO 18585+00 - PLAN AND PROFILE
TT-D1304	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18585+00 TO 18635+00 - PLAN AND PROFILE
TT-D1305	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18635+00 TO 18685+00 - PLAN AND PROFILE
TT-D1306	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18685+00 TO 18735+00 - PLAN AND PROFILE
TT-D1307	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18735+00 TO 18785+00 - PLAN AND PROFILE
TT-D1308	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18785+00 TO 18822+99 - PLAN AND PROFILE
TT-Y5001	CCNM DESIGN OPTION - TRACK GUIDEWAY - ACCESS ROAD TURN-AROUND - DETAILS

ROADWAY

DRAWING No.	DRAWING DESCRIPTION
CV-R0001	CCNM DESIGN OPTION - ROADWAY GENERAL - SYMBOLS, LEGEND, AND GENERAL NOTES - SHEET 1 OF 1
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CV-R0004	CCNM DESIGN OPTION - ROADWAY GENERAL - KEY MAP - SHEET 1 OF 1
CV-R1599	CCNM DESIGN OPTION - ROADWAY - BOX CULVERT CROSSING "18497" - PLAN AND SECTIONS
CV-R1600	CCNM DESIGN OPTION - ROADWAY - BOX CULVERT CROSSING "18700" - PLAN AND SECTIONS
CV-R1601	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18473" - PLAN AND PROFILE
CV-R1602	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18495" - PLAN AND PROFILE
CV-R1603	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18616" - PLAN AND PROFILE
CV-R1604	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18701" - PLAN AND PROFILE
CV-R1605	CCNM DESIGN OPTION - ROADWAY - EASTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1606	CCNM DESIGN OPTION - ROADWAY - EASTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1607	CCNM DESIGN OPTION - ROADWAY - EASTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1608	CCNM DESIGN OPTION - ROADWAY - WESTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1609	CCNM DESIGN OPTION - ROADWAY - WESTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1610	CCNM DESIGN OPTION - ROADWAY - WESTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1612	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18519" - HORIZONTAL ALIGNMENT DATA TABLE
CV-R1613	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18519" - PLAN AND PROFILE
CV-R1614	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18560" - PLAN AND PROFILE
CV-R1615	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18593" - HORIZONTAL ALIGNMENT DATA TABLE
CV-R1616	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18593" - PLAN AND PROFILE
CV-R1618	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18713" - PLAN AND PROFILE
CV-R1619	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18790" - HORIZONTAL ALIGNMENT DATA TABLE
CV-R1620	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18790" - PLAN AND PROFILE
CV-R1621	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18790" - PLAN AND PROFILE

**VOLUME 2
CONSTRUCTION SEQUENCING**

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

GRADING, DRAINAGE AND RETAINING WALLS

DRAWING No.	DRAWING DESCRIPTION
CV-G0101	CCNM DESIGN OPTION - GRADING, DRAINAGE AND RETAINING WALLS GENERAL - LEGEND, ABBREVIATIONS, AND GENERAL NOTES
CV-G0102	CCNM DESIGN OPTION - GRADING, DRAINAGE AND RETAINING WALLS GENERAL - KEY MAP - SHEET 1 OF 1
CV-G1401	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18482+70, 18487+63 - OFFSITE CULVERT PROFILE
CV-G1402	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18493+35 - OFFSITE CULVERT PROFILE
CV-G1403	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18497+86, 18500+69 - OFFSITE CULVERT PROFILE
CV-G1404	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18504+01, 18513+70 - OFFSITE CULVERT PROFILE
CV-G1405	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18561+59, 18658+50 - OFFSITE CULVERT PROFILE
CV-G1406	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18670+42, 18703+22 - OFFSITE CULVERT PROFILE
CV-G1407	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18714+89, 18752+96 - OFFSITE CULVERT PROFILE
CV-G1408	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18760+49, 18765+43 - OFFSITE CULVERT PROFILE
CV-G1409	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18769+58, 18771+12 - OFFSITE CULVERT PROFILE
CV-G1410	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18778+37, 18780+95 - OFFSITE CULVERT PROFILE
CV-G1411	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18805+46, 18808+99 - OFFSITE CULVERT PROFILE
CV-G4601	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18458+80 TO 18485+00 - PLAN
CV-G4602	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18485+00 TO 18510+00 - PLAN
CV-G4603	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18510+00 TO 18535+00 - PLAN
CV-G4604	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18535+00 TO 18560+00 - PLAN
CV-G4605	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18560+00 TO 18585+00 - PLAN
CV-G4606	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18585+00 TO 18610+00 - PLAN
CV-G4607	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18610+00 TO 18635+00 - PLAN
CV-G4608	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18635+00 TO 18660+00 - PLAN
CV-G4609	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18660+00 TO 18685+00 - PLAN
CV-G4610	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18685+00 TO 18710+00 - PLAN
CV-G4611	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18710+00 TO 18735+00 - PLAN
CV-G4612	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18735+00 TO 18760+00 - PLAN
CV-G4613	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18760+00 TO 18785+00 - PLAN
CV-G4614	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18785+00 TO 18810+00 - PLAN
CV-G4615	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18810+00 TO 18822+99 - PLAN
CV-G4616	CCNM DESIGN OPTION - GRADING AND DRAINAGE - ACCESS ROAD STA 18519+00 - PLAN
CV-G4617	CCNM DESIGN OPTION - GRADING AND DRAINAGE - ACCESS ROAD STA 18560+00 - PLAN
CV-G4618	CCNM DESIGN OPTION - GRADING AND DRAINAGE - ACCESS ROAD STA 18519+00 - PLAN
ST-G1101	CCNM DESIGN OPTION - RETAINING WALL - 18473 - PLAN AND PROFILE
ST-G1102	CCNM DESIGN OPTION - RETAINING WALL - 18474 - PLAN AND PROFILE
ST-G1103	CCNM DESIGN OPTION - RETAINING WALL - 18769 (STATE ROUTE 58) - PLAN AND PROFILE
ST-G1104	CCNM DESIGN OPTION - RETAINING WALL - 18781 AND 18783 (STATE ROUTE 58) - PLAN AND PROFILE
ST-G1105	CCNM DESIGN OPTION - RETAINING WALL - 18789 AND 18790 (STATE ROUTE 58) - PLAN AND PROFILE
ST-G1106	CCNM DESIGN OPTION - RETAINING WALL - 18792 (STATE ROUTE 58) - PLAN AND PROFILE
ST-G1107	CCNM DESIGN OPTION - RETAINING WALL - STATE ROUTE 58 - PLAN AND PROFILE

Projects\701206_00_CHSRBP_00_CADD\Sheet Files\CCNM\BP-GE-B0002

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TYLINjmeredit

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. LANDOLT
DRAWN BY A. RIVERA
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 03/06/2019

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SUBMITTAL**

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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.

VOLUME 3 TRACK AND ROADWAY STRUCTURES

DRAWING No.	DRAWING DESCRIPTION
ST-J0001	CCNM DESIGN OPTION - TRACK AND ROADWAY STRUCTURES - GENERAL NOTES AND LEGEND
ST-J0002	CCNM DESIGN OPTION - TRACK AND ROADWAY STRUCTURES - KEY MAP
ST-J0003	CCNM DESIGN OPTION - GENERAL - TYPICAL SECTIONS - SHEET 1 OF 3
ST-J0004	CCNM DESIGN OPTION - GENERAL - TYPICAL SECTIONS - SHEET 2 OF 3
ST-J0005	CCNM DESIGN OPTION - GENERAL - TYPICAL SECTIONS - SHEET 3 OF 3
ST-J1201	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18463+56 TO 18475+16 - PLAN AND ELEVATION
ST-J1202	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18463+56 TO 18475+16 - PLAN AND ELEVATION
ST-J1203	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18564+23 TO 18585+67 - PLAN AND ELEVATION
ST-J1204	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18564+23 TO 18585+67 - PLAN AND ELEVATION
ST-J1205	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18564+23 TO 18585+67 - PLAN AND ELEVATION
ST-J1206	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18718+57 TO 18747+94 - PLAN AND ELEVATION
ST-J1207	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18718+57 TO 18747+94 - PLAN AND ELEVATION
ST-J1208	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18718+57 TO 18747+94 - PLAN AND ELEVATION
ST-K1101	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 EB OVERHEAD - PLAN AND ELEVATION
ST-K1102	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 EB OVERHEAD - PLAN AND ELEVATION
ST-K1103	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 EB OVERHEAD - TYPICAL SECTION
ST-K1104	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 WB OVERHEAD - PLAN AND ELEVATION
ST-K1105	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 WB OVERHEAD - PLAN AND ELEVATION
ST-K1106	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 WB OVERHEAD - TYPICAL SECTION

TRACTION POWER

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

AUTOMATIC TRAIN CONTROL

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

TUNNEL

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

VOLUME 4 UTILITIES

DRAWING No.	DRAWING DESCRIPTION
UT-B0001	CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - ABBREVIATIONS AND LEGEND
UT-B0002	CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - GENERAL NOTES AND UTILITY OWNERS
UT-B0003	CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - KEY MAP - SHEET 1 OF 1
UT-C4601	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18458+80 TO 18485+00 - PLAN
UT-C4602	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18485+00 TO 18510+00 - PLAN
UT-C4603	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18510+00 TO 18535+00 - PLAN
UT-C4604	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18535+00 TO 18560+00 - PLAN
UT-C4605	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18560+00 TO 18585+00 - PLAN
UT-C4606	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18585+00 TO 18610+00 - PLAN
UT-C4607	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18610+00 TO 18635+00 - PLAN
UT-C4608	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18635+00 TO 18660+00 - PLAN
UT-C4609	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18660+00 TO 18685+00 - PLAN
UT-C4610	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18685+00 TO 18710+00 - PLAN
UT-C4611	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18710+00 TO 18735+00 - PLAN
UT-C4612	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18735+00 TO 18760+00 - PLAN
UT-C4613	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18760+00 TO 18785+00 - PLAN
UT-C4614	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18785+00 TO 18810+00 - PLAN
UT-C4615	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18810+00 TO 18822+99 - PLAN

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TYLIN\jmeredith

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. LANDOLT
DRAWN BY A. RIVERA
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 03/06/2019

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SUBMITTAL**

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CONSTRUCTION**



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

CCNM DESIGN OPTION
GENERAL
INDEX OF DRAWING
SHEET 2 OF 2

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

Projects\701206_00_CHSRBP\00_CADD\Sheet Files\CCNM\BP-GE-B0004

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2/27/2019

OJC:ARivera

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 BENCHMARK
 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

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,C-I-P 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
 CT COURT
 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
 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
 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 & 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 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
 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
 HOR, 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
03/06/2019

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**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.

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
 KV KILOVOLT

L

L LENGTH
 LAT LATITUDE
 LCB LEAN CONCRETE BASE
 LGA LOCALLY GENERATED ALTERNATIVE
 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
 MSS MOVING SCAFFOLDING SYSTEM
 MTL MATERIAL
 MVP MAINTENANCE VEHICLE PULLOUT

N

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

O

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

P

P PAGE
 PAP PERFORATED ALUMINUM PIPE
 PB PULL BOX, 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
 PL,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

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

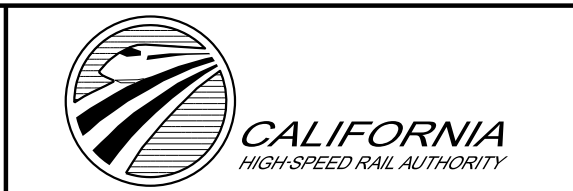
S SOUTH, SUPPLEMENT
 SAE STRUCTURE APPROACH EMBANKMENT
 SALV SALVAGE
 SAPP STRUCTURAL ALUMINUM PLATE PIPE
 SB SOUTHBOUND
 SC SPIRAL TO CURVE
 SCE SOUTHERN CALIFORNIA EDISON
 SCSP SLOTTED CORRUGATED STEEL PIPE
 SD STORM DRAIN
 SEC SECOND
 SECT SECTION
 SEP SEPARATION
 SG SUBGRADE
 SHLD SHOULDER
 SHT SHEET
 SIM SIMILAR
 S STATION LINE
 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
 SSRP STEEL SPIRAL RIB PIPE
 SR STATE ROUTE
 ST STREET, SPIRAL TO TANGENT
 STA STATION
 STBB SINGLE THRIE BEAM BARRIER
 STD STANDARD
 STR STRUCTURE
 SRS STAND ALONE RADIO SITE
 SURF SURFACING
 SW SIDEWALK, SOUND WALL
 SWR SEWER
 SWS SWITCHING STATION
 SYM SYMMETRICAL
 S4S SURFACE 4 SIDES
 SJVR SAN JOAQUIN VALLEY RAILROAD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LANDOLT
 DRAWN BY
J. MEREDITH
 CHECKED BY
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
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.

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\CCNM\BP-GE-B0006

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2/27/2019

OIC:ARIVEGA

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
 TOT TOTAL
 TP TRACTION POWER, TUNNEL PORTAL
 TPB TREATED PERMEABLE BASE
 TPF TRACTION POWER FACILITY
 TPM TREATED PERMEABLE MATERIAL
 TRANS TRANSITION, TRANSVERSE
 TS TRAFFIC SIGNAL, TUBULAR STEEL,
 TANGENT TO SPIRAL
 TOR TOP OF RAIL
 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
 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
 DRAWN BY
J. MEREDITH
 CHECKED BY
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

**RECORD
 PEPD
 SUBMITTAL**

**NOT FOR
 CONSTRUCTION**

TYLIN INTERNATIONAL



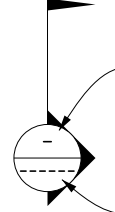
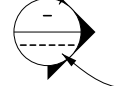





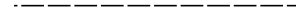
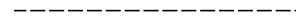
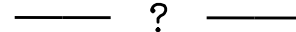




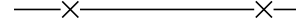









**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
 GENERAL
 ABBREVIATIONS
 SHEET 3 OF 3




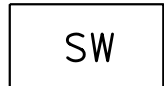
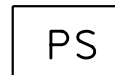
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 HSR13-44
 DRAWING NO.
 GE-B0006
 SCALE
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 SHEET NO.

LEGEND:



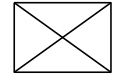
PLAN

-  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
-  SRS
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.

Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\CCNM\TT\BP-TT-B0101

11:53:00 AM

2/27/2019

O.I.C.:A.Rivera

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LANDOLT

DRAWN BY
A. RIVERA

CHECKED BY
S. LANDOLT

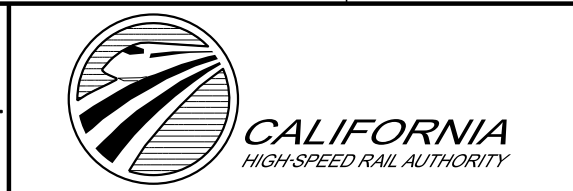
IN CHARGE
G. CAMPBELL

DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

TYLIN INTERNATIONAL



**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.

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	S61°18'51"E	2509.54	18458+80.38	2277489.99	6386827.38			Cosine				250
	TS			18483+89.92	2276285.40	6389028.91				250			
	SC			18508+39.92	2275081.63	6391162.54				250			
	CS			18591+79.07	2269771.77	6397552.73	28000	8339.16		250			
	ST			18616+29.07	2267894.64	6399126.83				250			
8	TS	S39°14'12"E	7943.77	18695+72.84	2261741.87	6404151.46			Cosine	2450	6.00	2.93	250
	SC			18721+72.84	2259749.60	6405821.69				250			
	CS			18796+94.42	2254818.24	6411475.02	-30000	7521.58		250			
	ST			18822+94.42	2253434.01	6413675.63				250			
	POT			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	S61°18'51"E	2509.54	18458+80.38	2277512.14	6386839.50			Cosine				250
	TS			18483+89.92	2276307.55	6389041.03				250			
	SC			18508+39.92	2275103.81	6391174.68				250			
	CS			18591+88.80	2269787.76	6397572.30	28025.25	8348.89		250			
	ST			18616+38.80	2267910.61	6399146.38				250			
8	TS	S39°14'12"E	7943.77	18695+82.57	2261757.84	6404171.02			Cosine	2450			250
	SC			18721+82.57	2259765.59	6405841.27	-29974.75			250			
	CS			18796+95.63	2254839.81	6411488.20		7513.06		250			
	ST			18822+95.63	2253455.55	6413688.80				250			
	POT			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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11:54:34 AM

2/27/2019

O.I.C.A.R.I.V.E.R.G.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LANDOLT

DRAWN BY
A. RIVERA

CHECKED BY
S. LANDOLT

IN CHARGE
G. CAMPBELL

DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

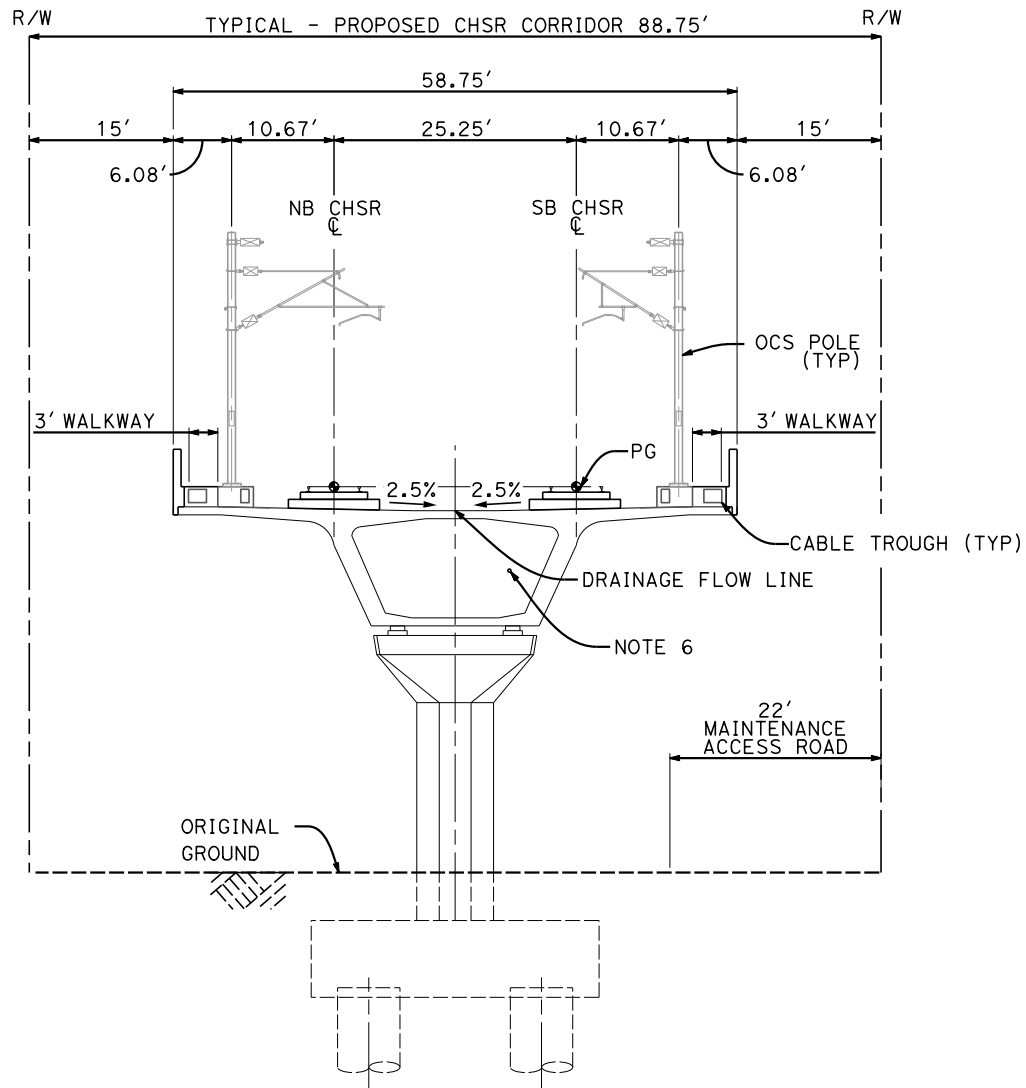
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TRACK GENERAL
HORIZONTAL ALIGNMENT DATA TABLE
SHEET 1 OF 1

CONTRACT NO.
HSR13-44

DRAWING NO.
TT-B0102

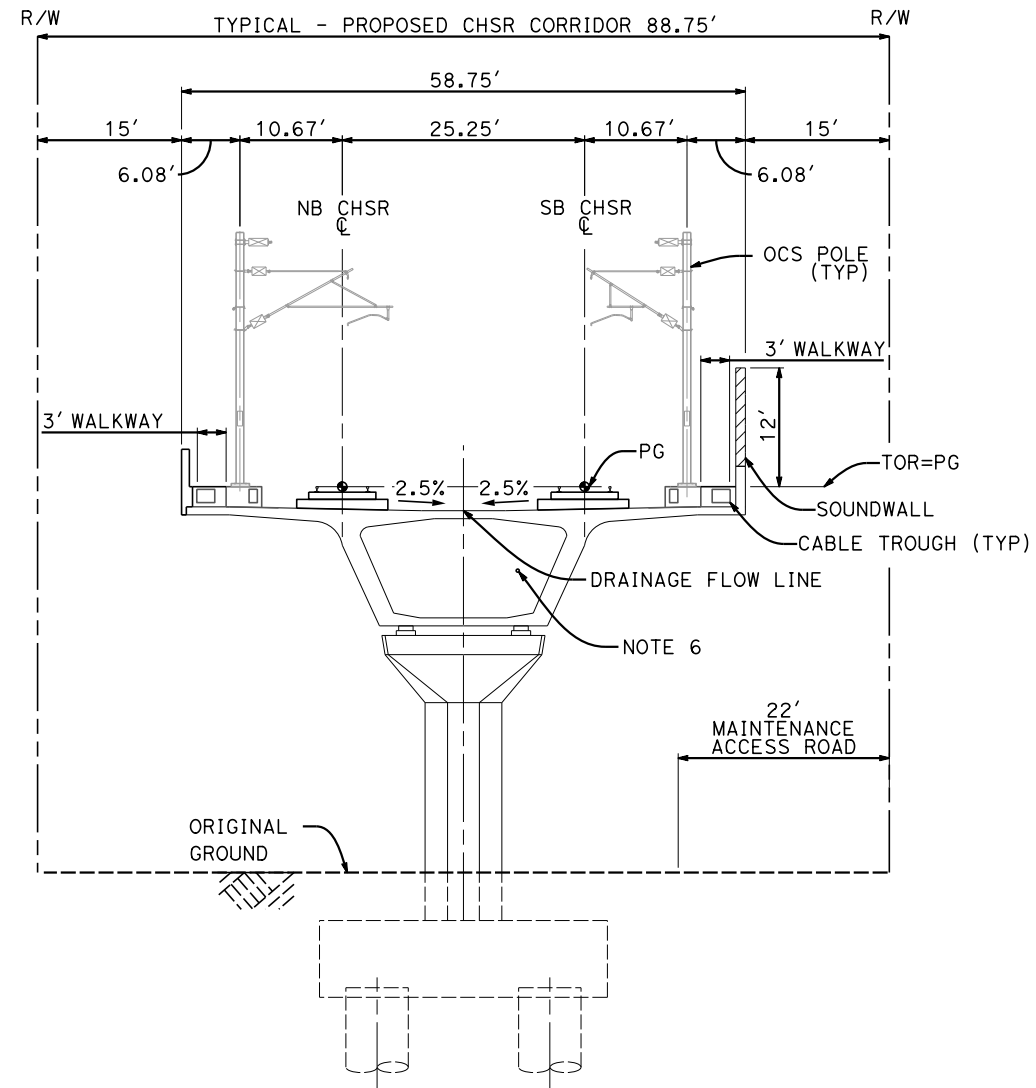
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SHEET NO.



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.



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2/27/2019

G.I.C.A.RIVERA

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LANDOLT
 DRAWN BY
A. RIVERA
 CHECKED BY
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

**RECORD
 PEPD
 SUBMITTAL**

**NOT FOR
 CONSTRUCTION**



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

CCNM DESIGN OPTION
 TRACK GENERAL
 TYPICAL SECTIONS
 SHEET 1 OF 4

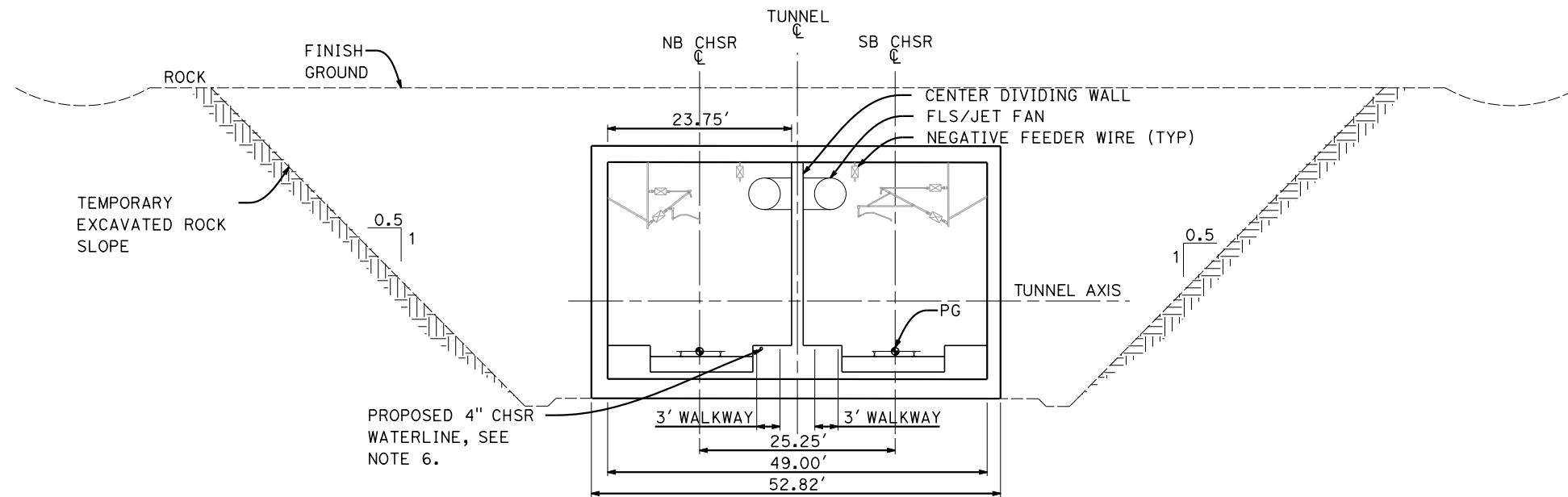
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 DRAWING NO.
TT-B3101
 SCALE
AS SHOWN
 SHEET NO.

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2/27/2019

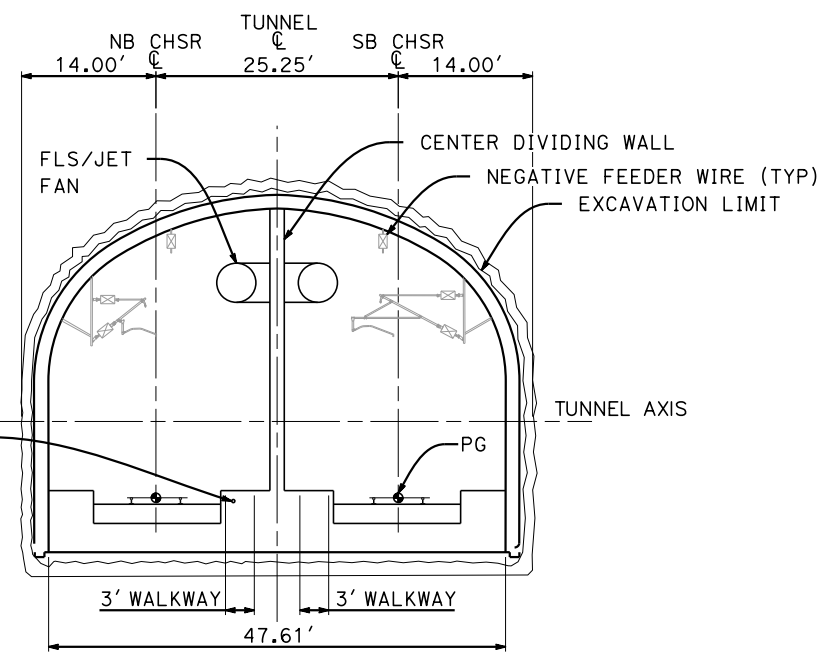
O.I.C. ARIVERA



SECTION H

SINGLE TUNNEL - CUT AND COVER

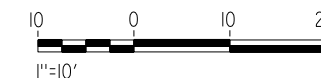
STA 18550+00 TO 18556+00



SECTION J

SINGLE TUNNEL - DRILL AND BLAST

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



NOTES:

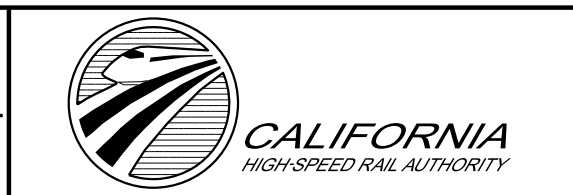
1. TRACKFORM SHOWN IS INDICATIVE.
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES.
3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS.
4. FOR TUNNEL DRAINAGE AND DETAILS SEE TN TYPICAL SECTIONS.
5. FOR TRACTION POWER FACILITY DETAILS SEE TP TYPICAL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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LANDOLT
DRAWN BY
A. RIVERA
CHECKED BY
S. LANDOLT
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

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

CCNM DESIGN OPTION
TRACK GENERAL
TYPICAL SECTIONS
SHEET 2 OF 4

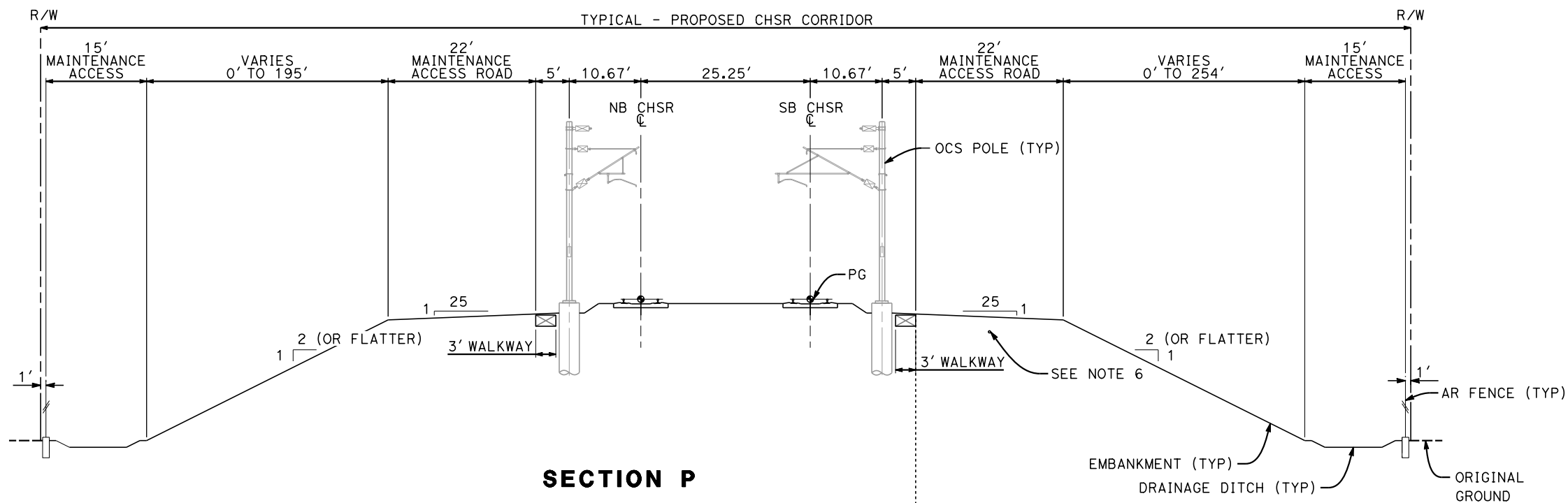
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DRAWING NO.
TT-B3102
SCALE
AS SHOWN
SHEET NO.

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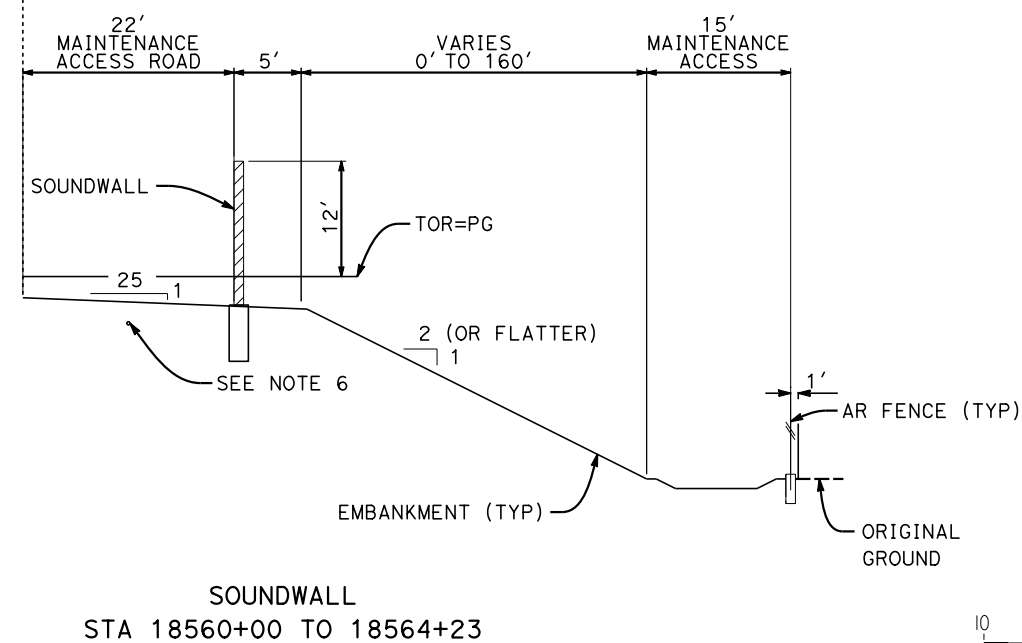
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OJC:ARIVERA

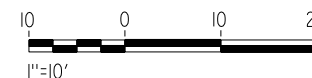


SECTION P

- STA 18458+80 TO 18463+56
- STA 18475+16 TO 18522+77
- STA 18556+00 TO 18564+23
- 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.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. LANDOLT
DRAWN BY A. RIVERA
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

CCNM DESIGN OPTION
TRACK GENERAL
TYPICAL SECTIONS
SHEET 3 OF 4

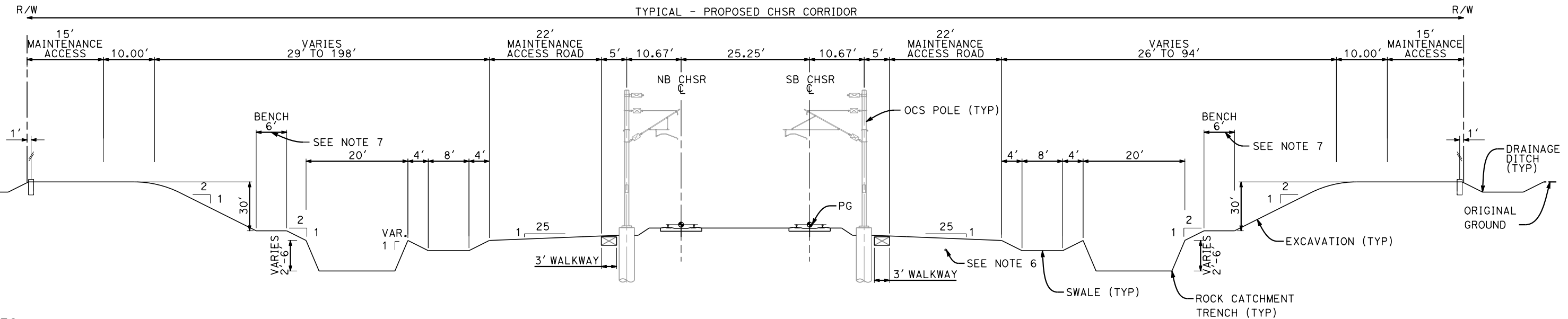
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DRAWING NO. TT-B3103
SCALE AS SHOWN
SHEET NO.

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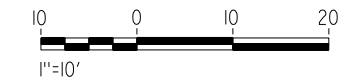
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- NOTES:**
1. TRACKFORM SHOWN IS INDICATIVE.
 2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE TABLES.
 3. FOR STRUCTURAL DIMENSIONS SEE ST TYPICAL SECTIONS.
 4. FOR TUNNEL DETAILS SEE TN TYPICAL SECTIONS.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

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



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LANDOLT

DRAWN BY
A. RIVERA

CHECKED BY
S. LANDOLT

IN CHARGE
G. CAMPBELL

DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

CCNM DESIGN OPTION
TRACK GENERAL
TYPICAL SECTIONS
SHEET 4 OF 4

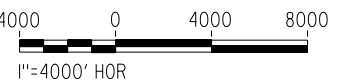
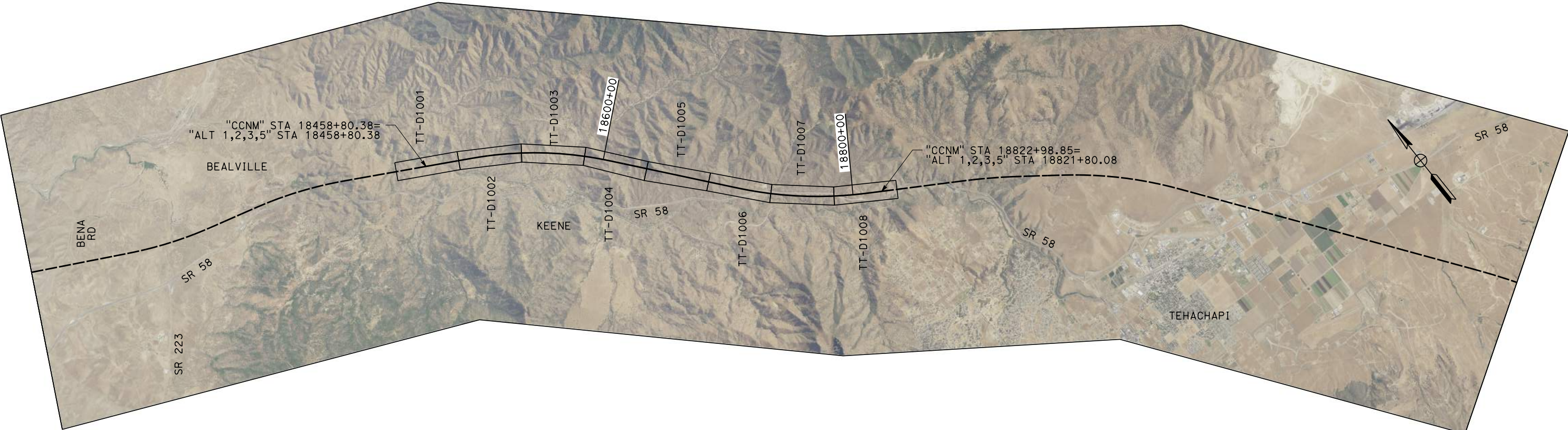
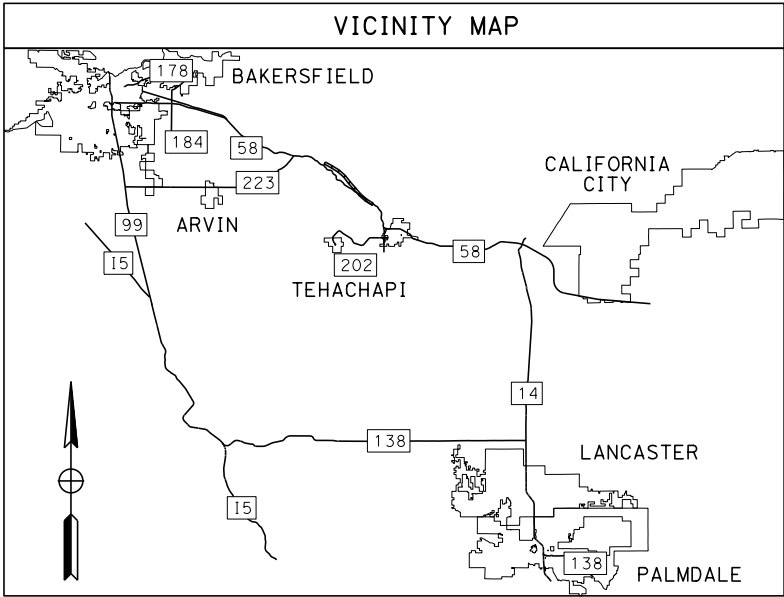
CONTRACT NO.
HSR13-44

DRAWING NO.
TT-B3104

SCALE
AS SHOWN

SHEET NO.

CCNM DESIGN OPTION



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LANDOLT

DRAWN BY
A. RIVERA

CHECKED BY
S. LANDOLT

IN CHARGE
G. CAMPBELL

DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

CCNM DESIGN OPTION
TRACK GENERAL
KEY MAP
SHEET 1 OF 1

CONTRACT NO.
HSR13-44

DRAWING NO.
TT-C6101

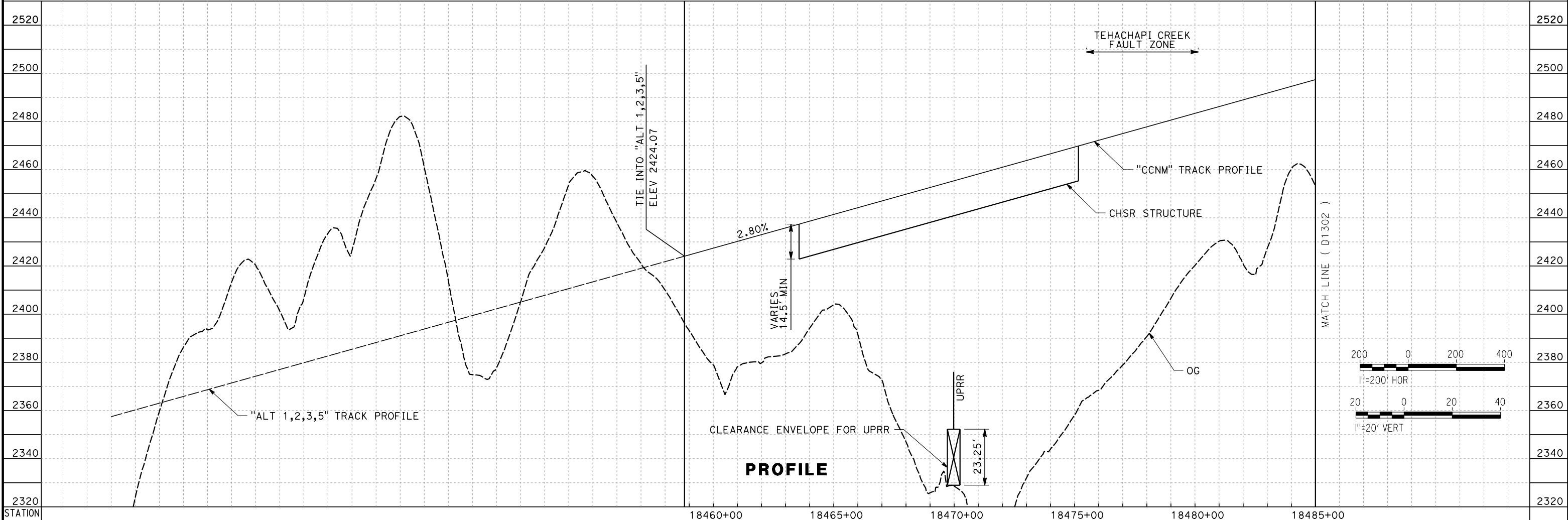
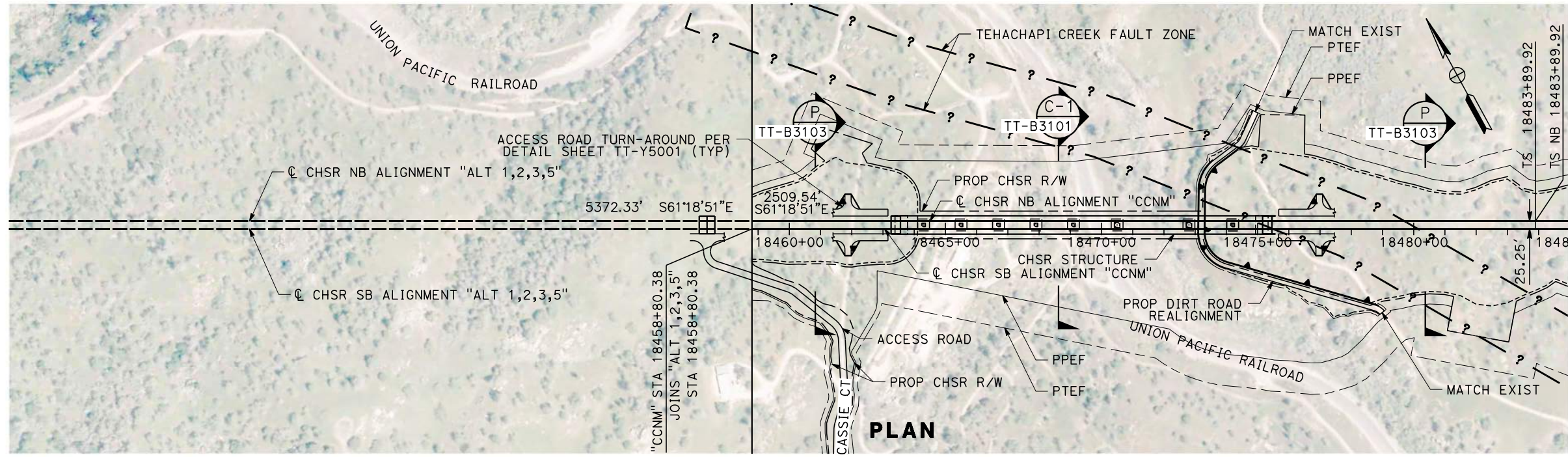
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2/27/2019 11:53:06 AM

OIC:ARivera



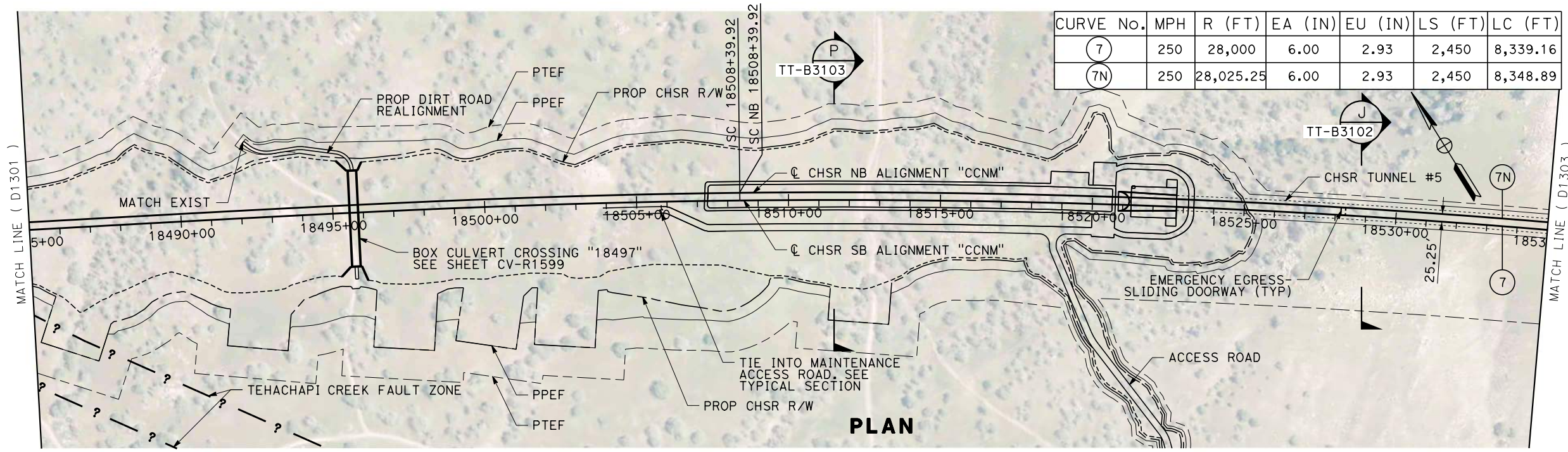
<table border="1"> <tr> <td>DESIGNED BY</td> <td>S. LANDOLT</td> </tr> <tr> <td>DRAWN BY</td> <td>A. RIVERA</td> </tr> <tr> <td>CHECKED BY</td> <td>S. LANDOLT</td> </tr> <tr> <td>IN CHARGE</td> <td>G. CAMPBELL</td> </tr> <tr> <td>DATE</td> <td>03/06/2019</td> </tr> </table>					DESIGNED BY	S. LANDOLT	DRAWN BY	A. RIVERA	CHECKED BY	S. LANDOLT	IN CHARGE	G. CAMPBELL	DATE	03/06/2019	<p>RECORD PEPD SUBMITTAL</p> <p>NOT FOR CONSTRUCTION</p>						<p>CALIFORNIA HIGH-SPEED RAIL PROJECT BAKERSFIELD TO PALMDALE</p> <p>CCNM DESIGN OPTION TRACK GUIDEWAY STA 18458+80 TO 18485+00 PLAN AND PROFILE</p>		<p>CONTRACT NO. HSR13-44</p> <p>DRAWING NO. TT-D1301</p> <p>SCALE AS SHOWN</p> <p>SHEET NO.</p>	
DESIGNED BY	S. LANDOLT																							
DRAWN BY	A. RIVERA																							
CHECKED BY	S. LANDOLT																							
IN CHARGE	G. CAMPBELL																							
DATE	03/06/2019																							
REV	DATE	BY	CHK	APP	DESCRIPTION																			

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2/27/2019

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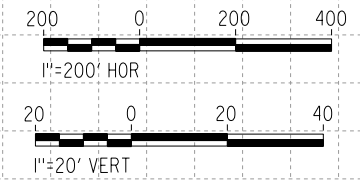


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7	250	28,000	6.00	2.93	2,450	8,339.16
7N	250	28,025.25	6.00	2.93	2,450	8,348.89

PLAN



PROFILE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LANDOLT
DRAWN BY
A. RIVERA
CHECKED BY
S. LANDOLT
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

CCNM DESIGN OPTION
TRACK GUIDEWAY
STA 18485+00 TO 18535+00
PLAN AND PROFILE

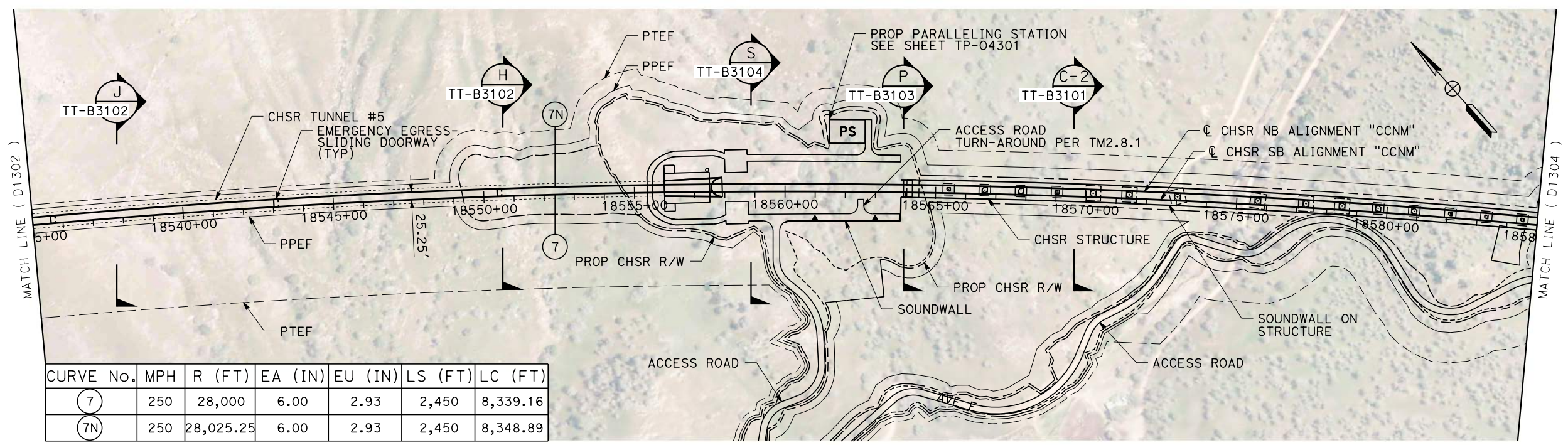
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DRAWING NO.
TT-D1302
SCALE
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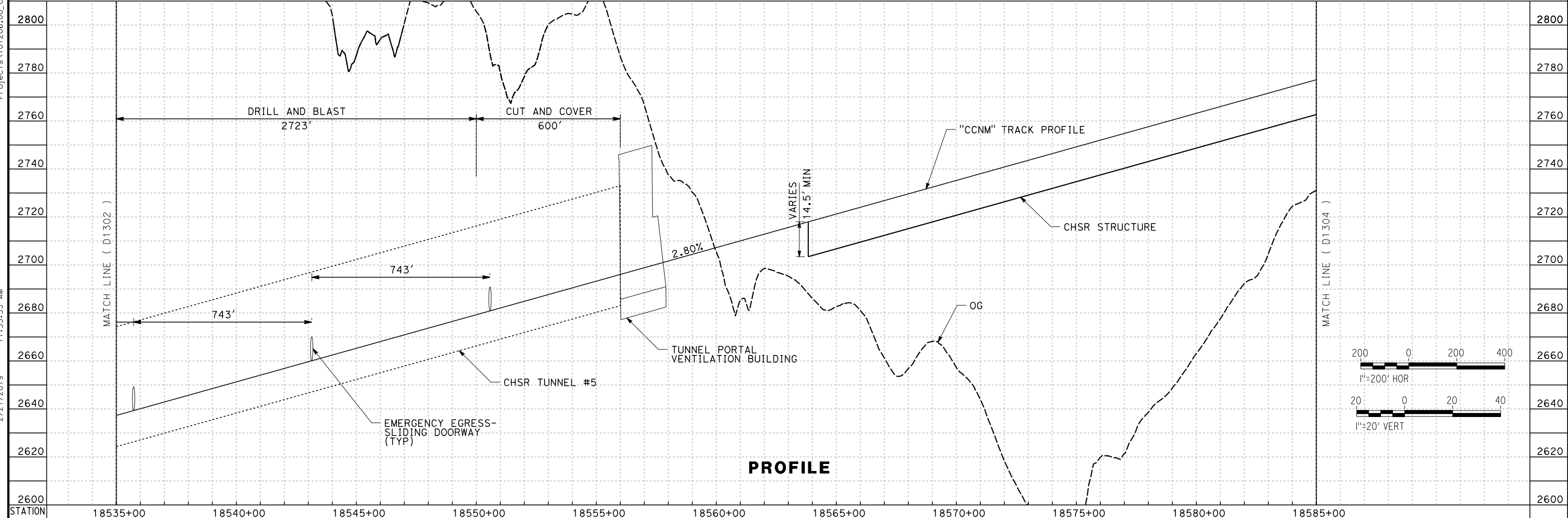
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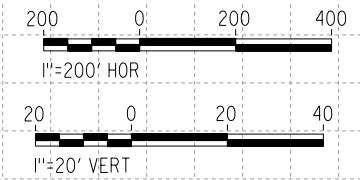


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7	250	28,000	6.00	2.93	2,450	8,339.16
7N	250	28,025.25	6.00	2.93	2,450	8,348.89

PLAN



PROFILE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LANDOLT
DRAWN BY
A. RIVERA
CHECKED BY
S. LANDOLT
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
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

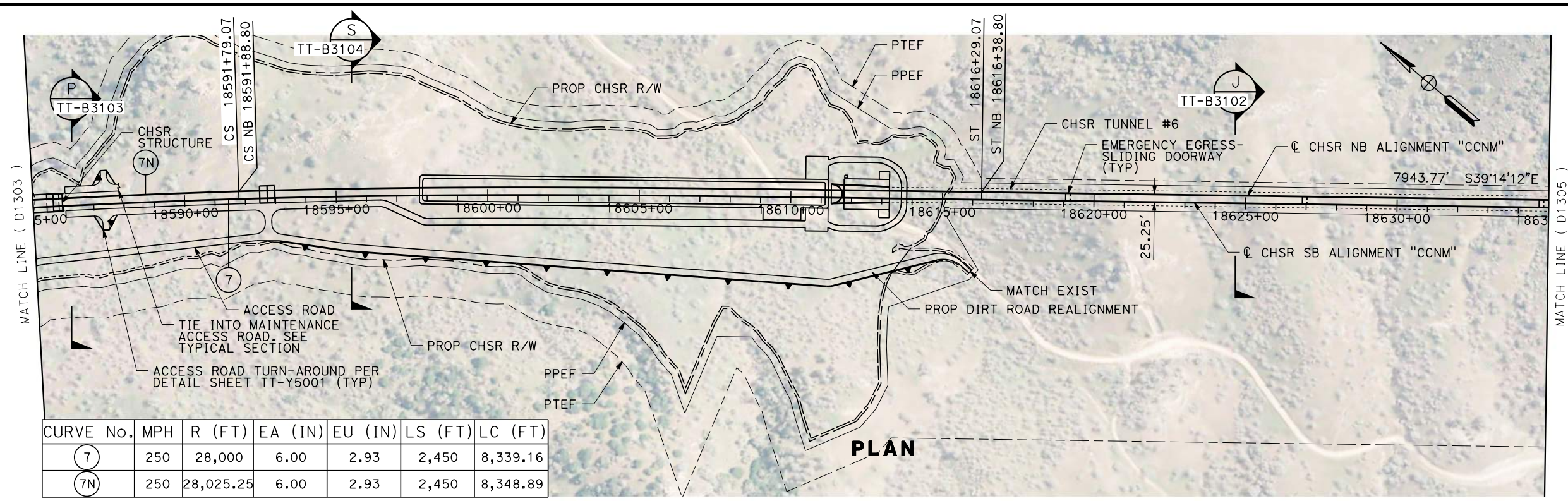
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HSR13-44
DRAWING NO.
TT-D1303
SCALE
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SHEET NO.

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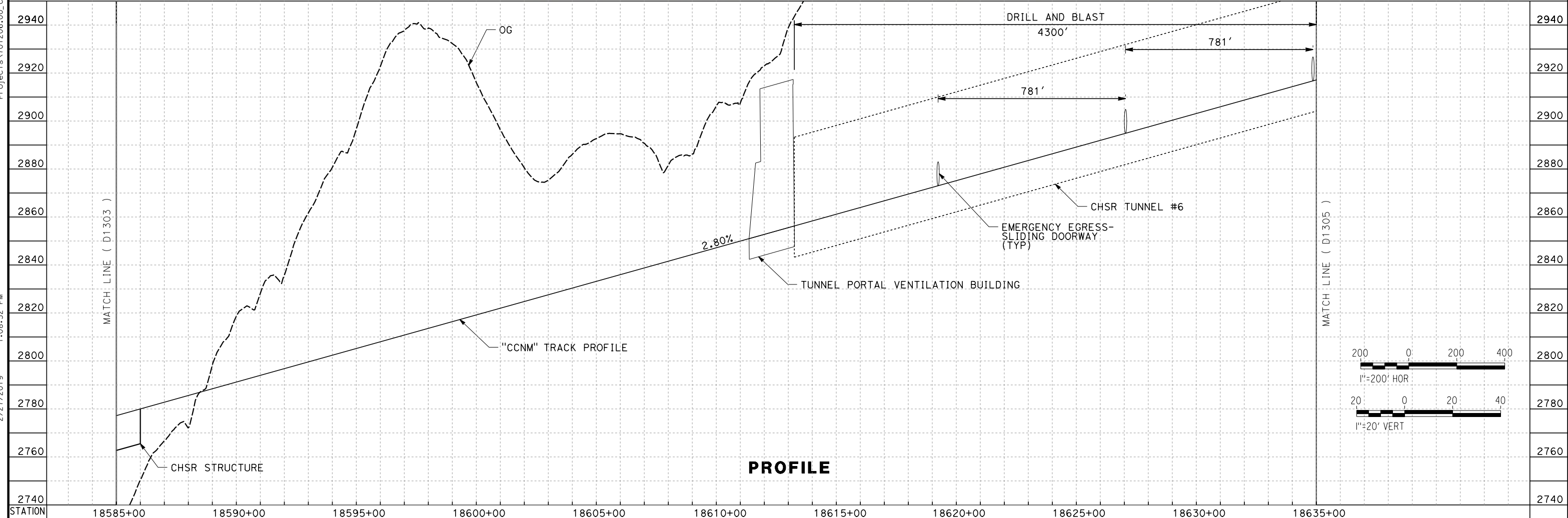
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2/27/2019

OIC:ARivera



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



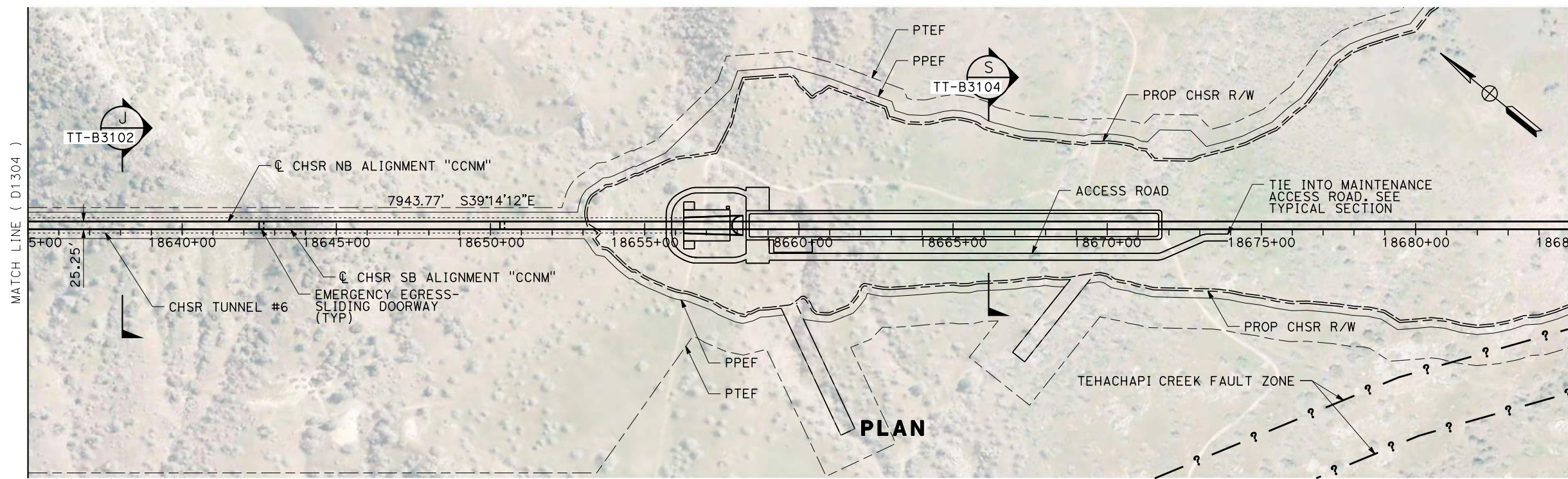
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DESIGNED BY	S. LANDOLT																
DRAWN BY	A. RIVERA																
CHECKED BY	S. LANDOLT																
IN CHARGE	G. CAMPBELL																
DATE	03/06/2019																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>CHK</th> <th>APP</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV	DATE	BY	CHK	APP	DESCRIPTION											
REV	DATE	BY	CHK	APP	DESCRIPTION												

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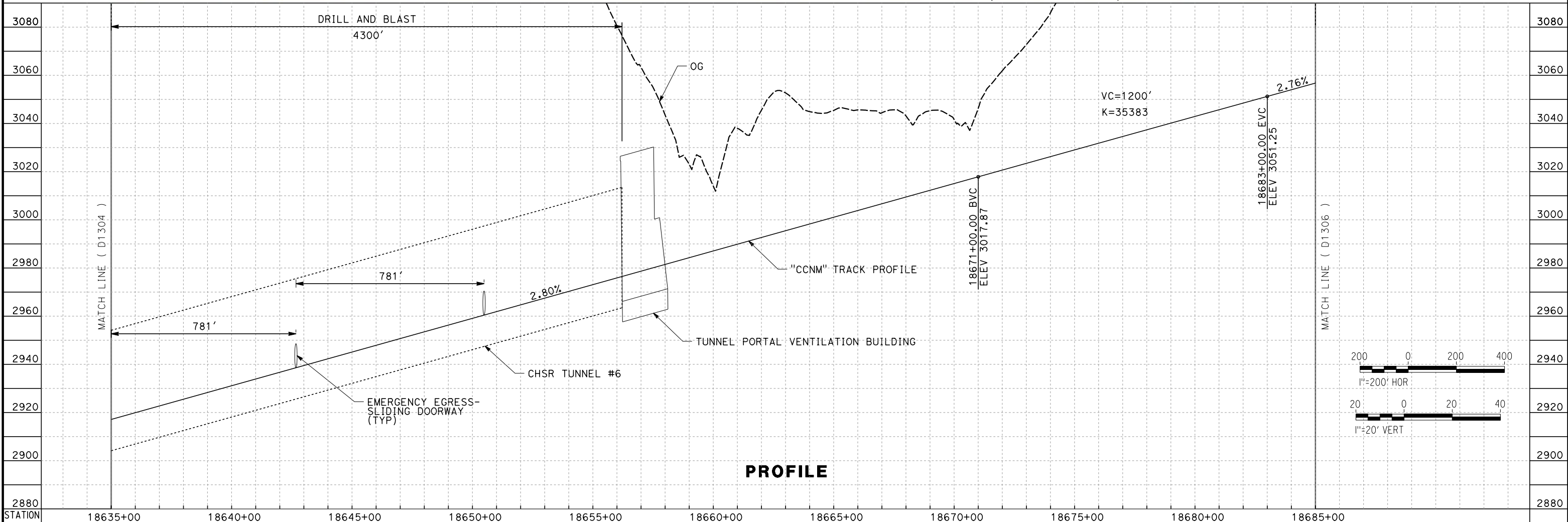
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2/27/2019

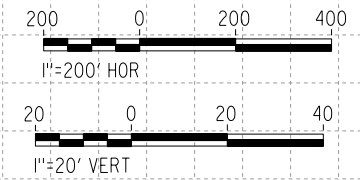
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PLAN



PROFILE



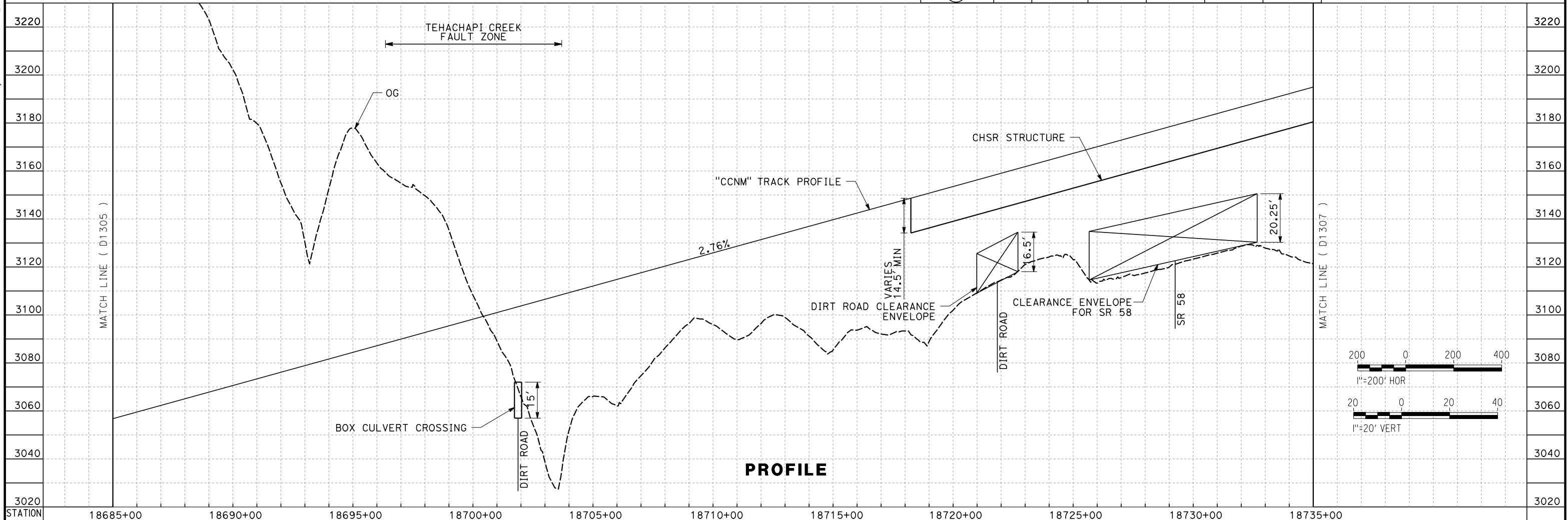
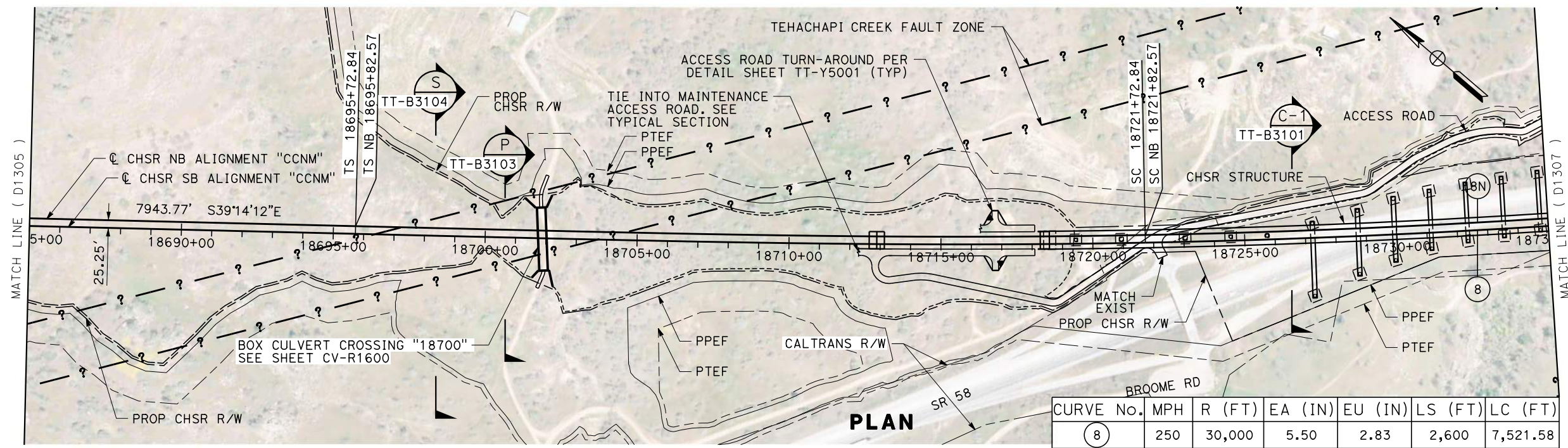
STATION	18635+00	18640+00	18645+00	18650+00	18655+00	18660+00	18665+00	18670+00	18675+00	18680+00	18685+00					
DESIGNED BY	S. LANDOLT															
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IN CHARGE	G. CAMPBELL															
DATE	03/06/2019															
REV	DATE	BY	CHK	APP	DESCRIPTION							RECORD PEPD SUBMITTAL NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED RAIL PROJECT BAKERSFIELD TO PALMDALE 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.

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2/27/2019

OIC:ARivera

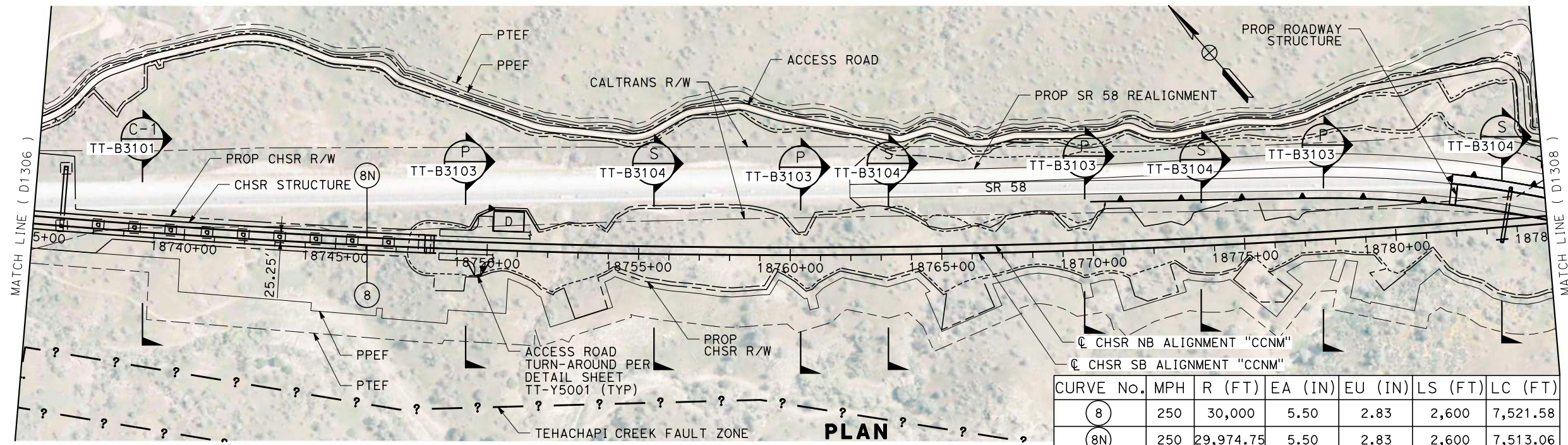


<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>CHK</th> <th>APP</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REV	DATE	BY	CHK	APP	DESCRIPTION							<table border="1"> <tr> <td>DESIGNED BY S. LANDOLT</td> <td rowspan="5"> RECORD PEPD SUBMITTAL NOT FOR CONSTRUCTION </td> </tr> <tr> <td>DRAWN BY A. RIVERA</td> </tr> <tr> <td>CHECKED BY S. LANDOLT</td> </tr> <tr> <td>IN CHARGE G. CAMPBELL</td> </tr> <tr> <td>DATE 03/06/2019</td> </tr> </table>	DESIGNED BY S. LANDOLT	RECORD PEPD SUBMITTAL NOT FOR CONSTRUCTION	DRAWN BY A. RIVERA	CHECKED BY S. LANDOLT	IN CHARGE G. CAMPBELL	DATE 03/06/2019			<p align="center">CALIFORNIA HIGH-SPEED RAIL PROJECT BAKERSFIELD TO PALMDALE CCNM DESIGN OPTION TRACK GUIDEWAY STA 18685+00 TO 18735+00 PLAN AND PROFILE</p>	<table border="1"> <tr> <td>CONTRACT NO. HSR13-44</td> </tr> <tr> <td>DRAWING NO. TT-D1306</td> </tr> <tr> <td>SCALE AS SHOWN</td> </tr> <tr> <td>SHEET NO.</td> </tr> </table>	CONTRACT NO. HSR13-44	DRAWING NO. TT-D1306	SCALE AS SHOWN	SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION																						
DESIGNED BY S. LANDOLT	RECORD PEPD SUBMITTAL NOT FOR CONSTRUCTION																										
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CHECKED BY S. LANDOLT																											
IN CHARGE G. CAMPBELL																											
DATE 03/06/2019																											
CONTRACT NO. HSR13-44																											
DRAWING NO. TT-D1306																											
SCALE AS SHOWN																											
SHEET NO.																											

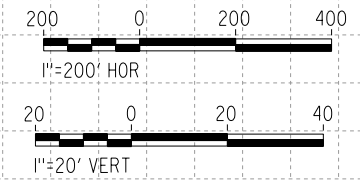
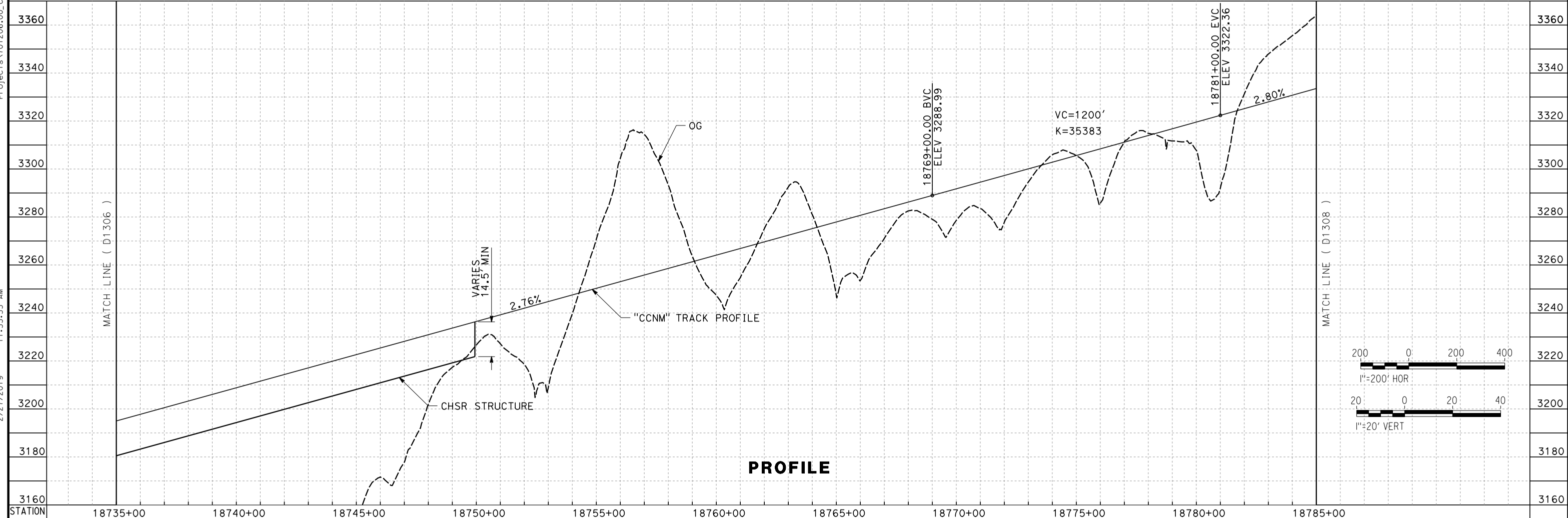
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2/27/2019

OIC:ARivera



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

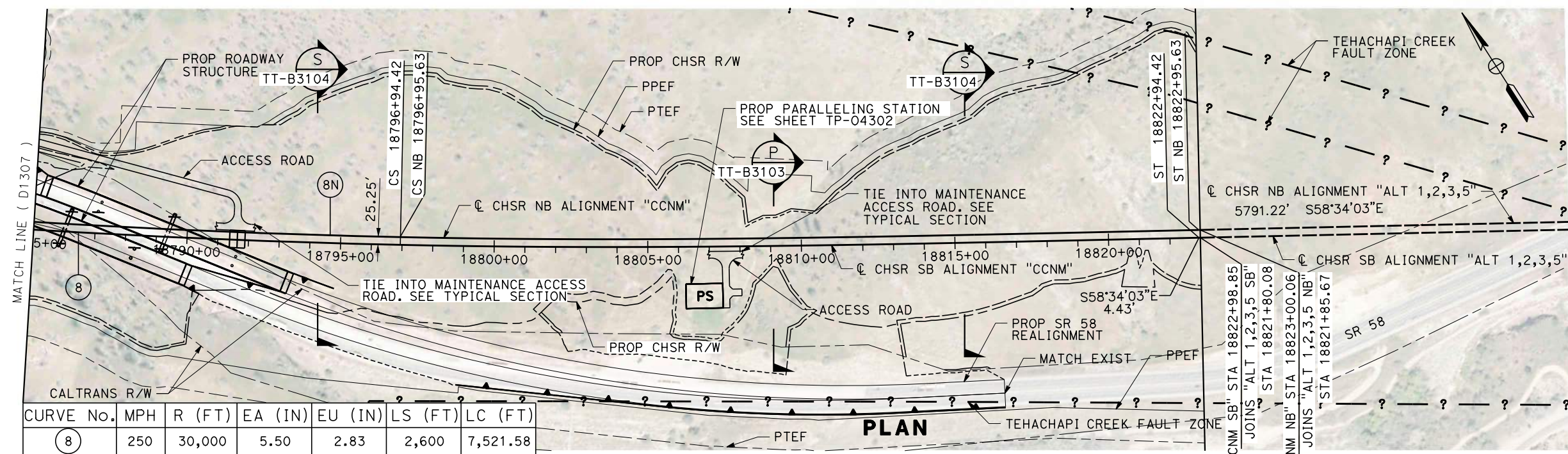


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DESIGNED BY	S. LANDOLT																													
DRAWN BY	A. RIVERA																													
CHECKED BY	S. LANDOLT																													
IN CHARGE	G. CAMPBELL																													
DATE	03/06/2019																													
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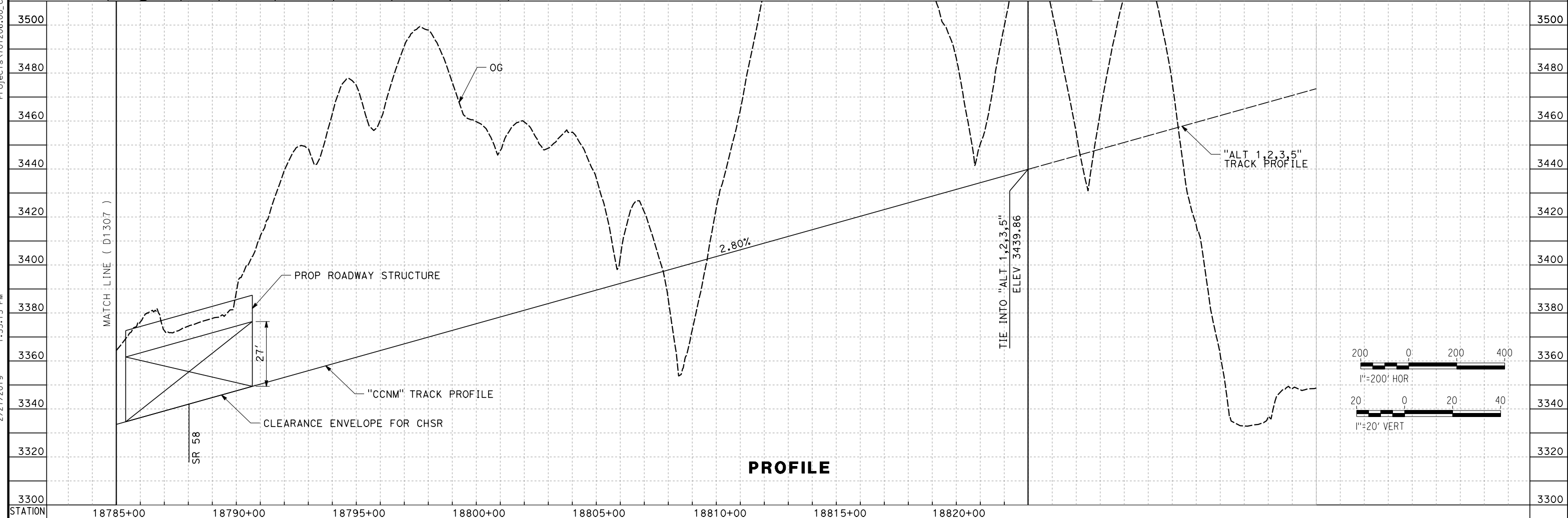
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OIC:ARivera



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8	250	30,000	5.50	2.83	2,600	7,521.58
8N	250	29,974.75	5.50	2.83	2,600	7,513.06



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LANDOLT
DRAWN BY
A. RIVERA
CHECKED BY
S. LANDOLT
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

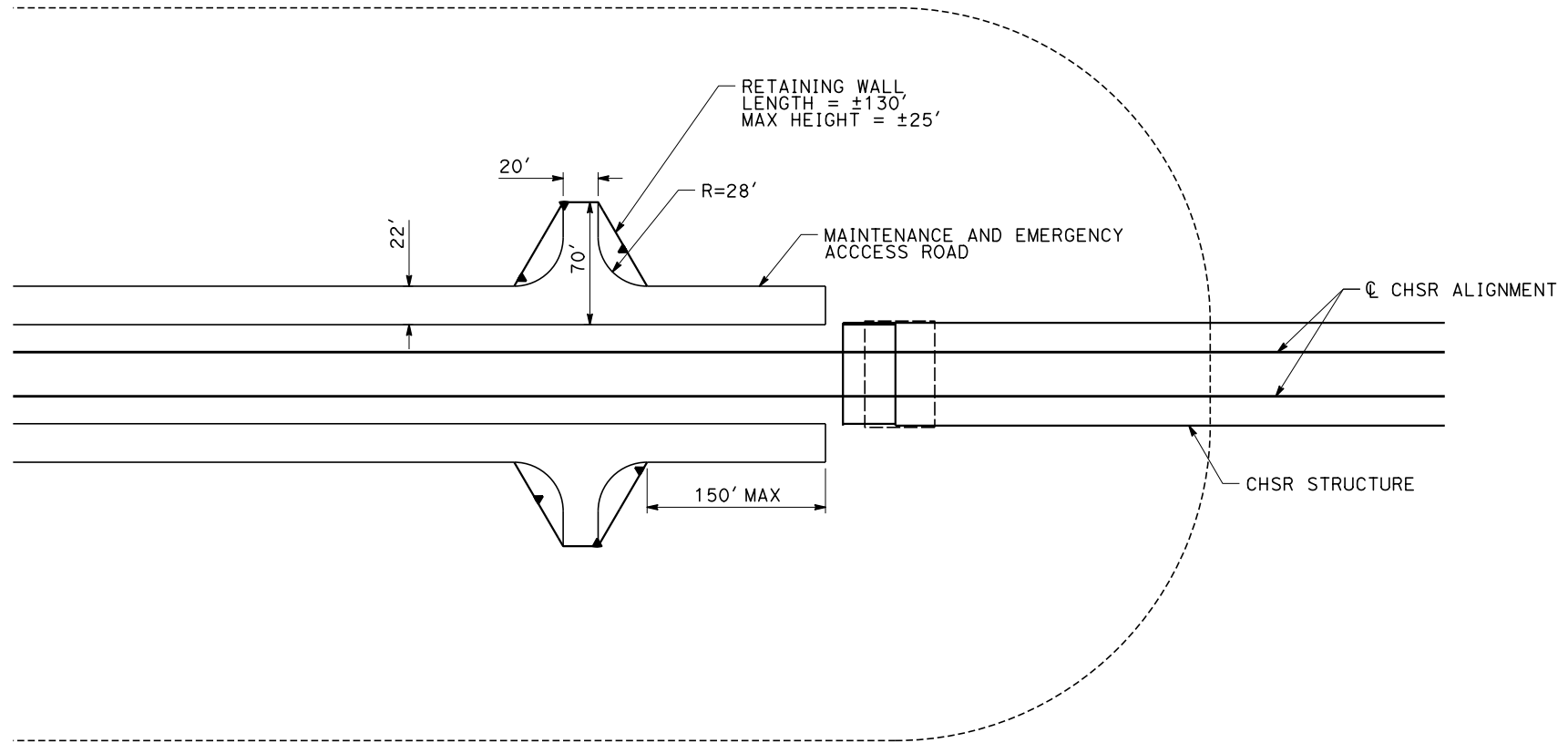
**NOT FOR
CONSTRUCTION**



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

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

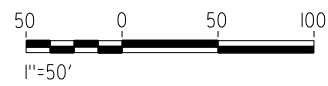
CONTRACT NO.
HSR13-44
DRAWING NO.
TT-D1308
SCALE
AS SHOWN
SHEET NO.



ACCESS ROAD TURN-AROUND

NOTES:

- 1. TURN-AROUNDS SHALL BE PROVIDED AT ALL DEAD-ENDS FOR ACCESS ROADS IN EXCESS OF 150'.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LANDOLT
DRAWN BY
A. RIVERA
CHECKED BY
S. LANDOLT
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

CCNM DESIGN OPTION
TRACK GUIDEWAY
ACCESS ROAD TURN-AROUND
DETAILS

CONTRACT NO.
HSR13-44

DRAWING NO.
TT-Y5001

SCALE
AS SHOWN

SHEET NO.

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 SUPPLY STATION

SW 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\T01206.00_CHSRBP\00_CADD\Sheet Files\CCNM\CV\BP-CV-R0001

OIC:ARivera 2/27/2019 1:34:13 PM

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA

DRAWN BY
D. LOPEZ

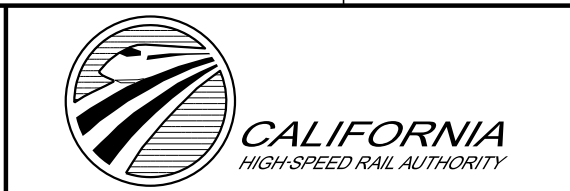
CHECKED BY
S. LANDOLT

IN CHARGE
G. CAMPBELL

DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

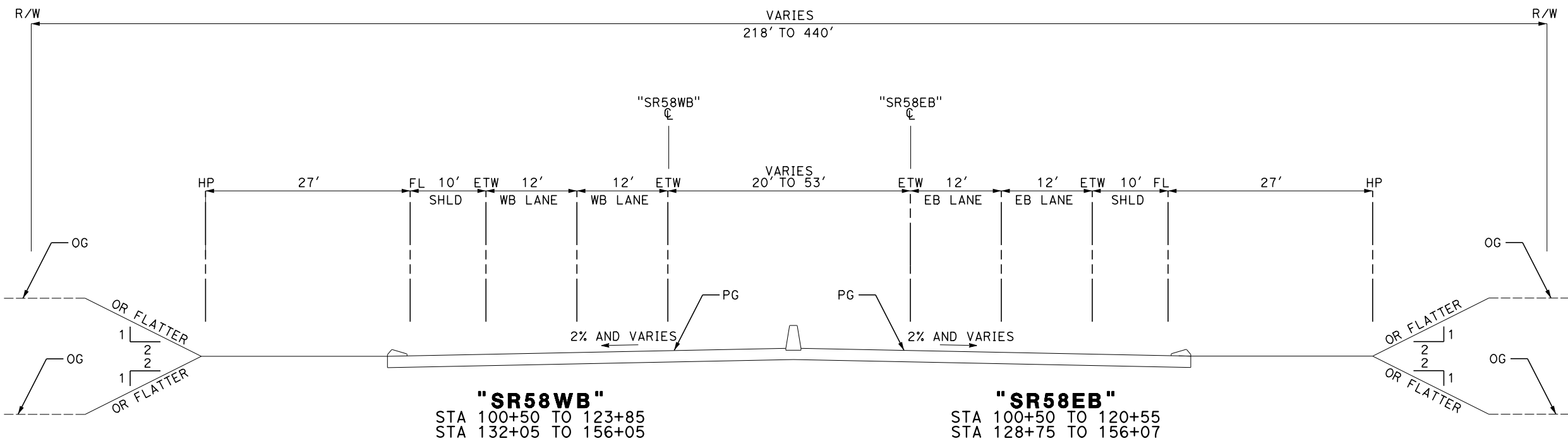
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ROADWAY GENERAL
SYMBOLS, LEGEND, AND GENERAL NOTES
SHEET 1 OF 1

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-R0001

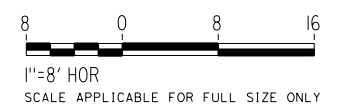
SCALE
NO SCALE

SHEET NO.



"SR58WB"
 STA 100+50 TO 123+85
 STA 132+05 TO 156+05

"SR58EB"
 STA 100+50 TO 120+55
 STA 128+75 TO 156+07



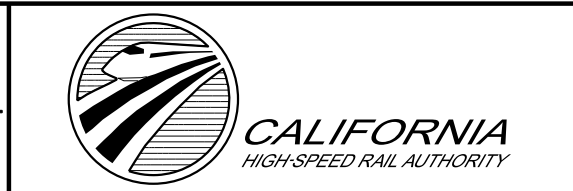
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
 DRAWN BY
D. LOPEZ
 CHECKED BY
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

**RECORD
 PEPD
 SUBMITTAL**

**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 CCNM DESIGN OPTION
 ROADWAY GENERAL
 TYPICAL SECTIONS
 SHEET 1 OF 2

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

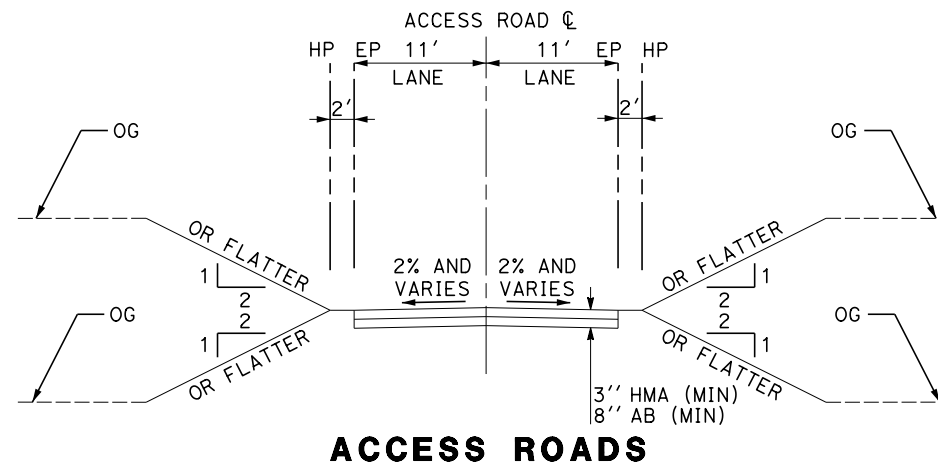
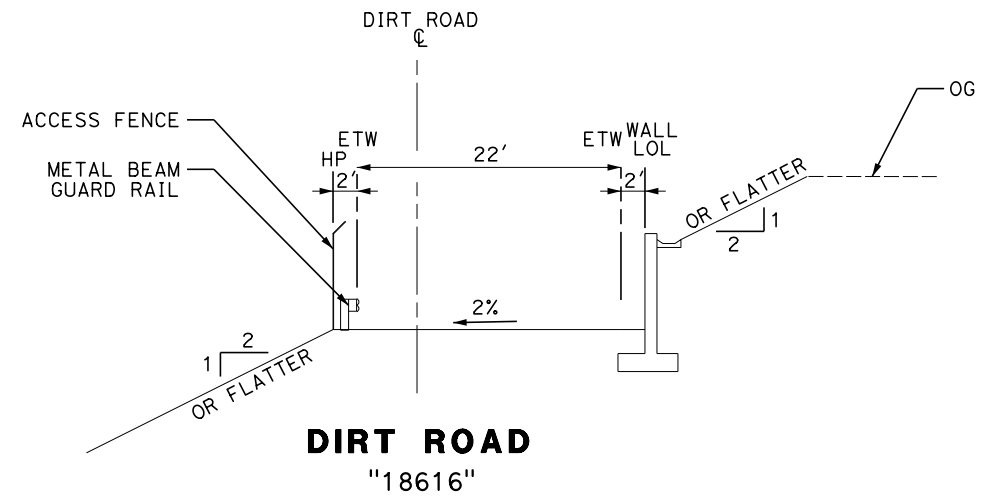
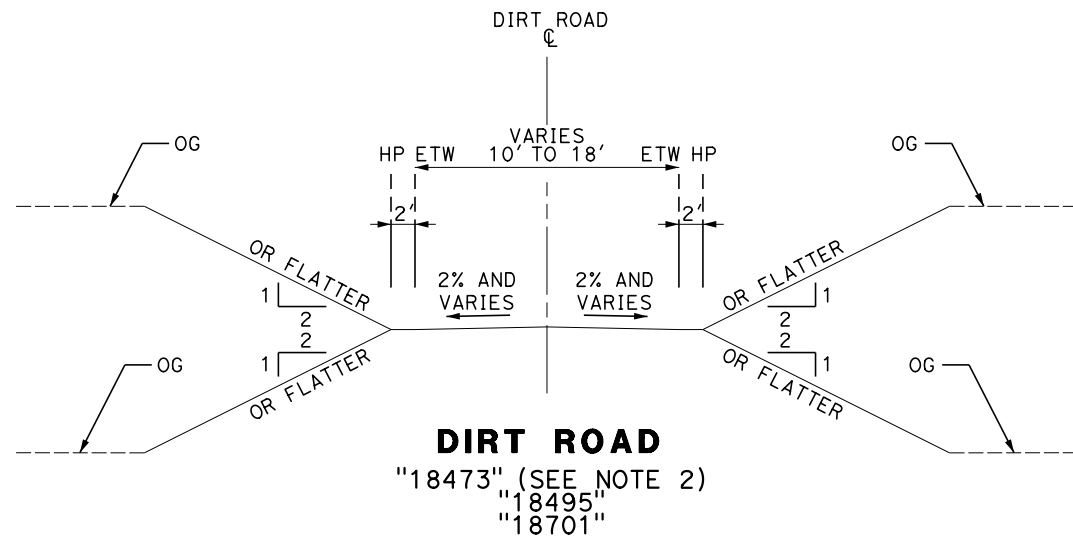
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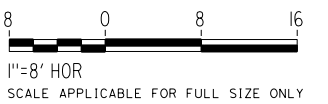
2/27/2019

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.



"18519"
 "18560"
 "18593" (SEE NOTE 3)
 "18713"
 "18790"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA

DRAWN BY
D. LOPEZ

CHECKED BY
S. LANDOLT

IN CHARGE
G. CAMPBELL

DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

CCNM DESIGN OPTION
ROADWAY GENERAL
TYPICAL SECTIONS
SHEET 2 OF 2

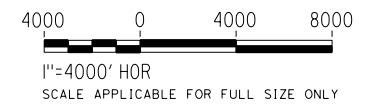
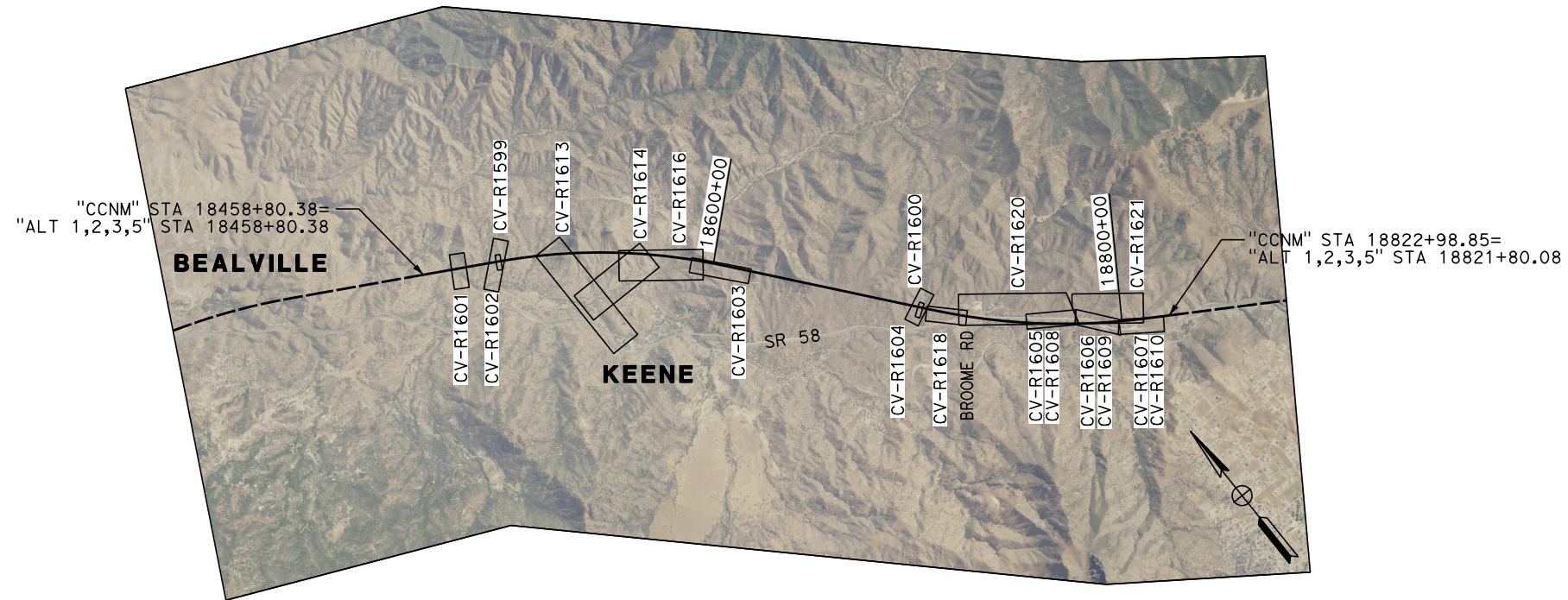
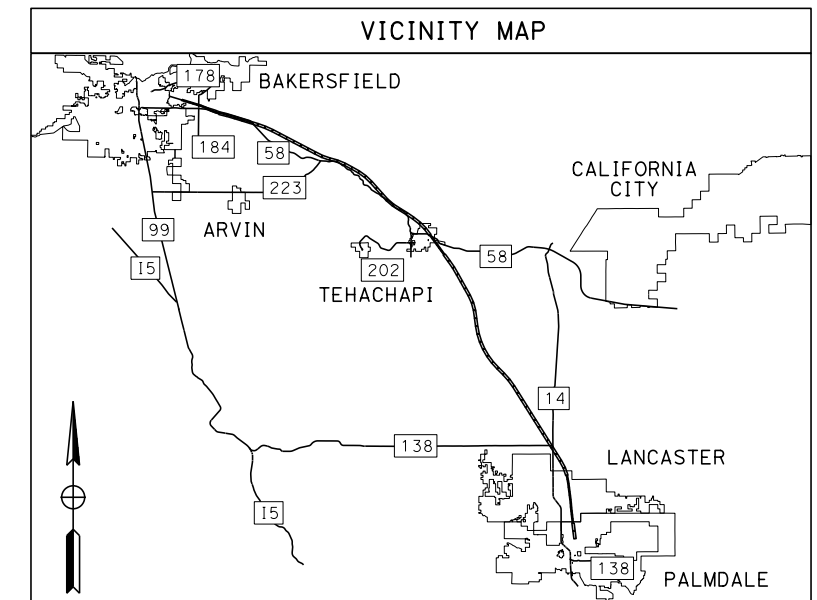
CONTRACT NO.
HSR13-44

DRAWING NO.
CV-R0003

SCALE
AS SHOWN

SHEET NO.

CCNM DESIGN OPTION



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

OIC:ARivera 2/27/2019 1:38:08 PM

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA

DRAWN BY
D. LOPEZ

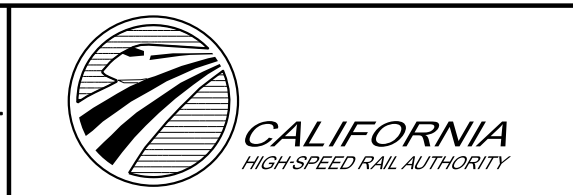
CHECKED BY
S. LANDOLT

IN CHARGE
G. CAMPBELL

DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

CCNM DESIGN OPTION
ROADWAY GENERAL
KEY MAP
SHEET 1 OF 1

CONTRACT NO.
HSR13-44

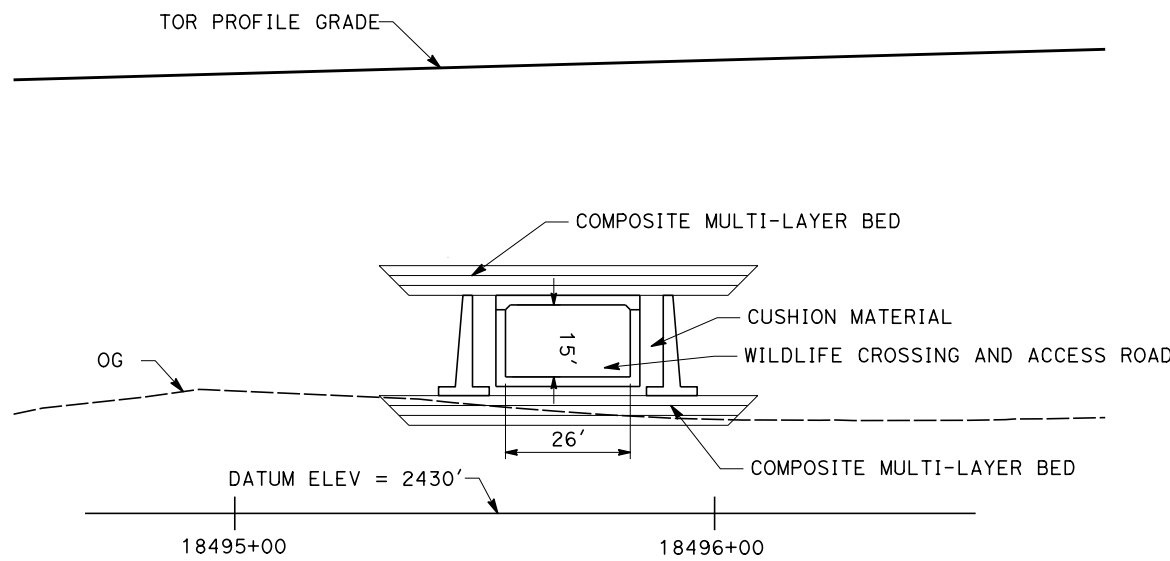
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CV-R0004

SCALE
AS SHOWN

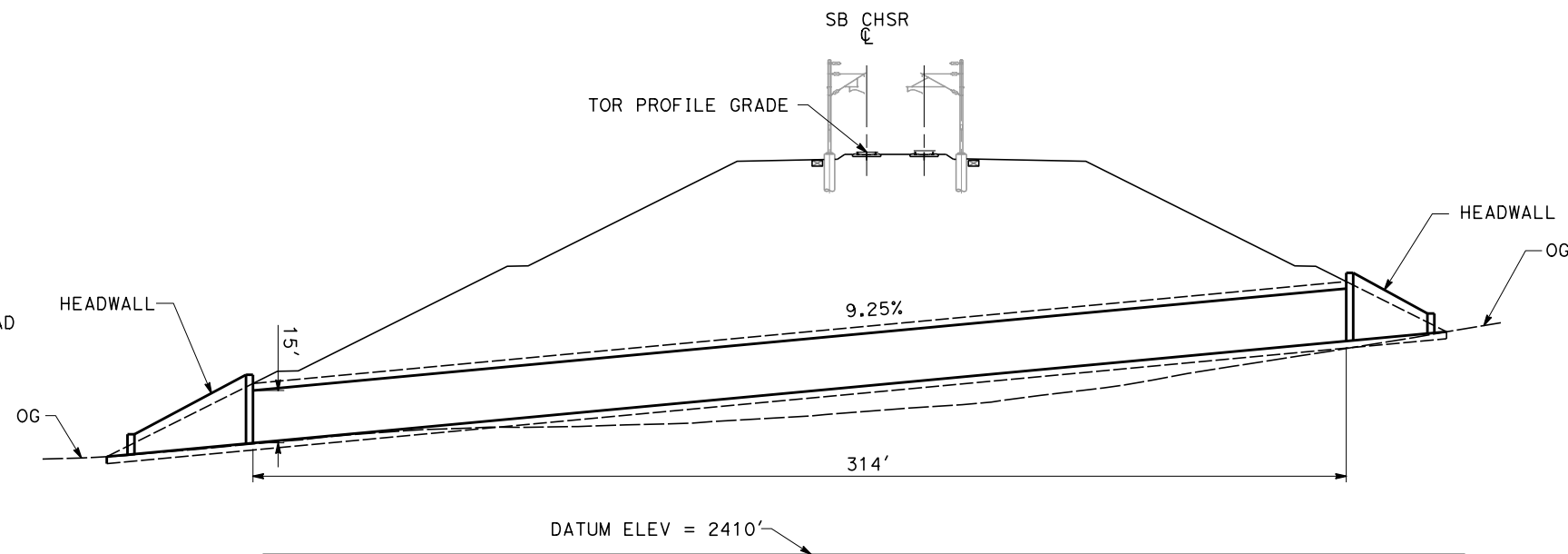
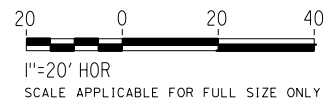
SHEET NO.

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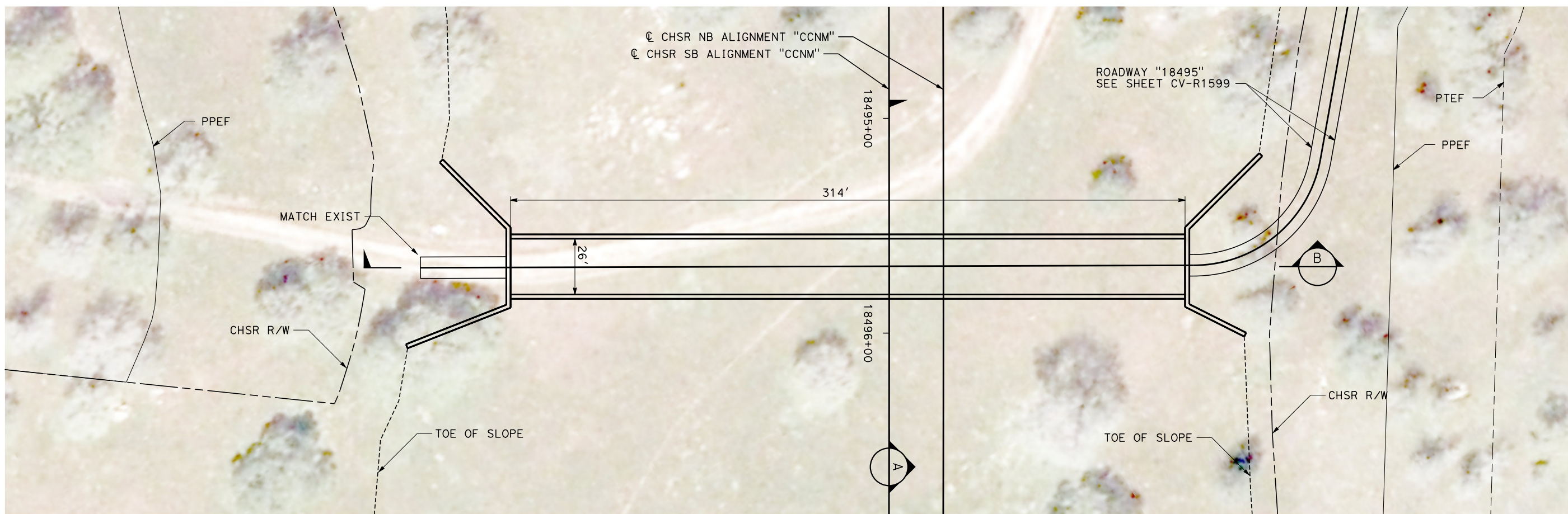
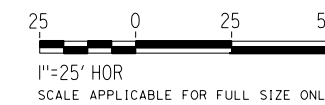
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OIC:ARivera



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
S. LANDOLT
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

TYLIN INTERNATIONAL

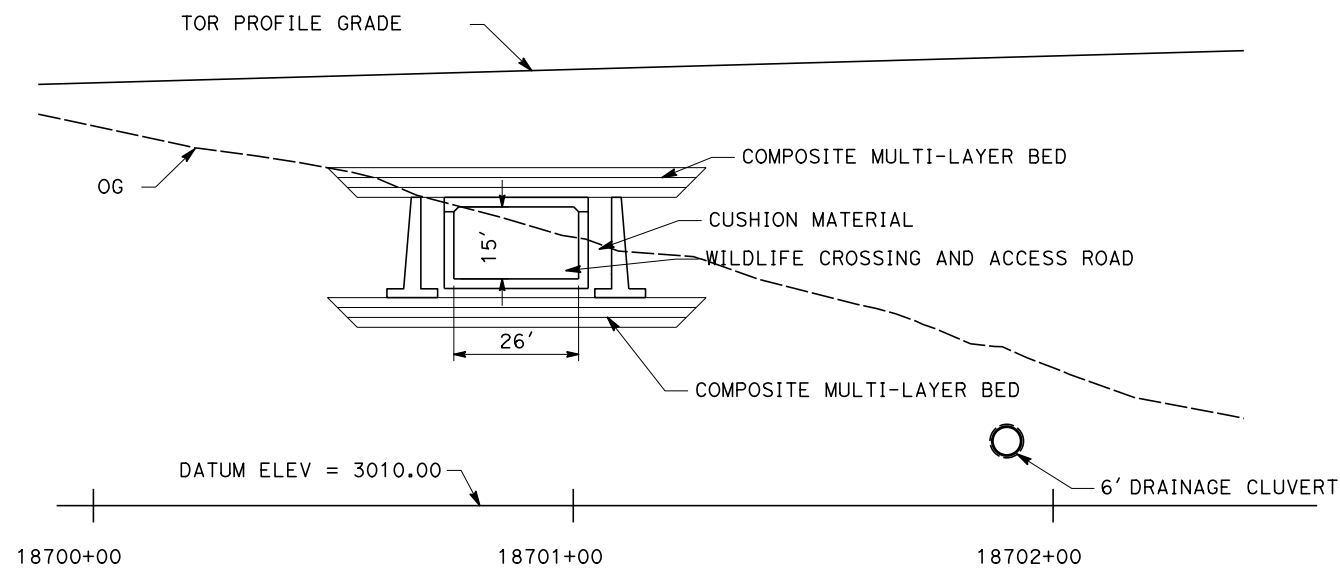


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
CCNM DESIGN OPTION
ROADWAY
BOX CULVERT CROSSING "18497"
PLAN AND SECTIONS

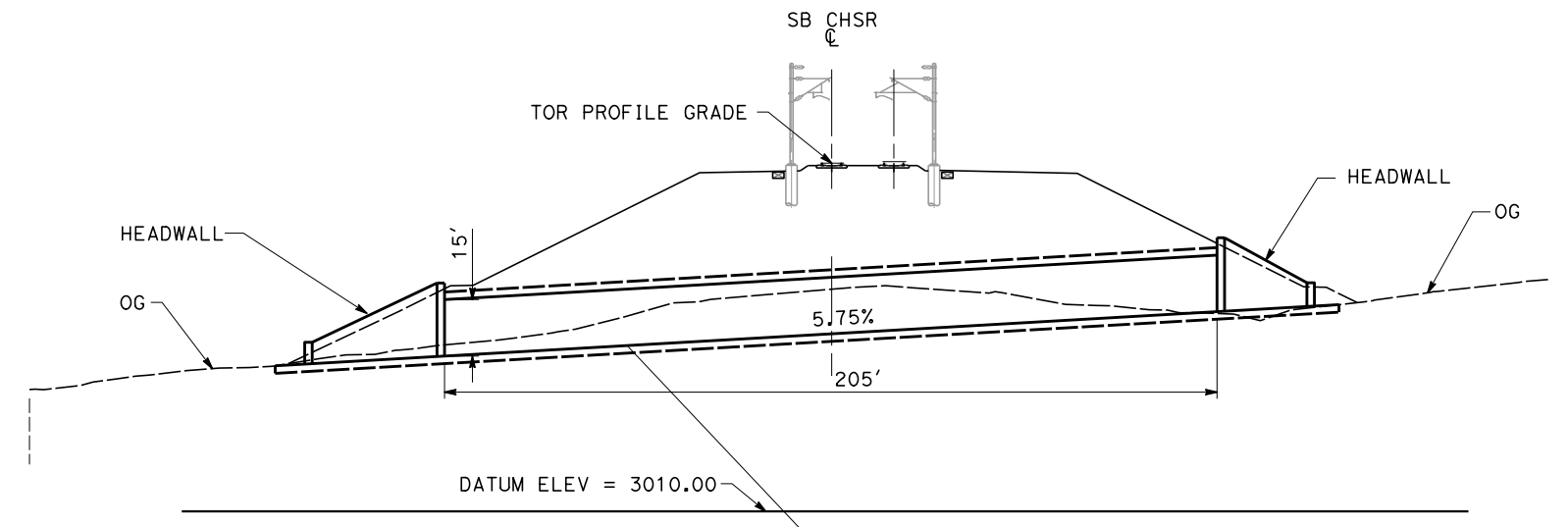
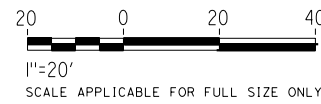
CONTRACT NO.
HSR13-44
DRAWING NO.
CV-R1599
SCALE
AS SHOWN
SHEET NO.

Projects\701206.00_CHSRBP\00_CADD\Sheet_Files\CCNM\CV\BP-CV-R1600

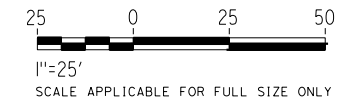
2/27/2019 1:37:23 PM OIC:ARIVERA



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
S. LANDOLT
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

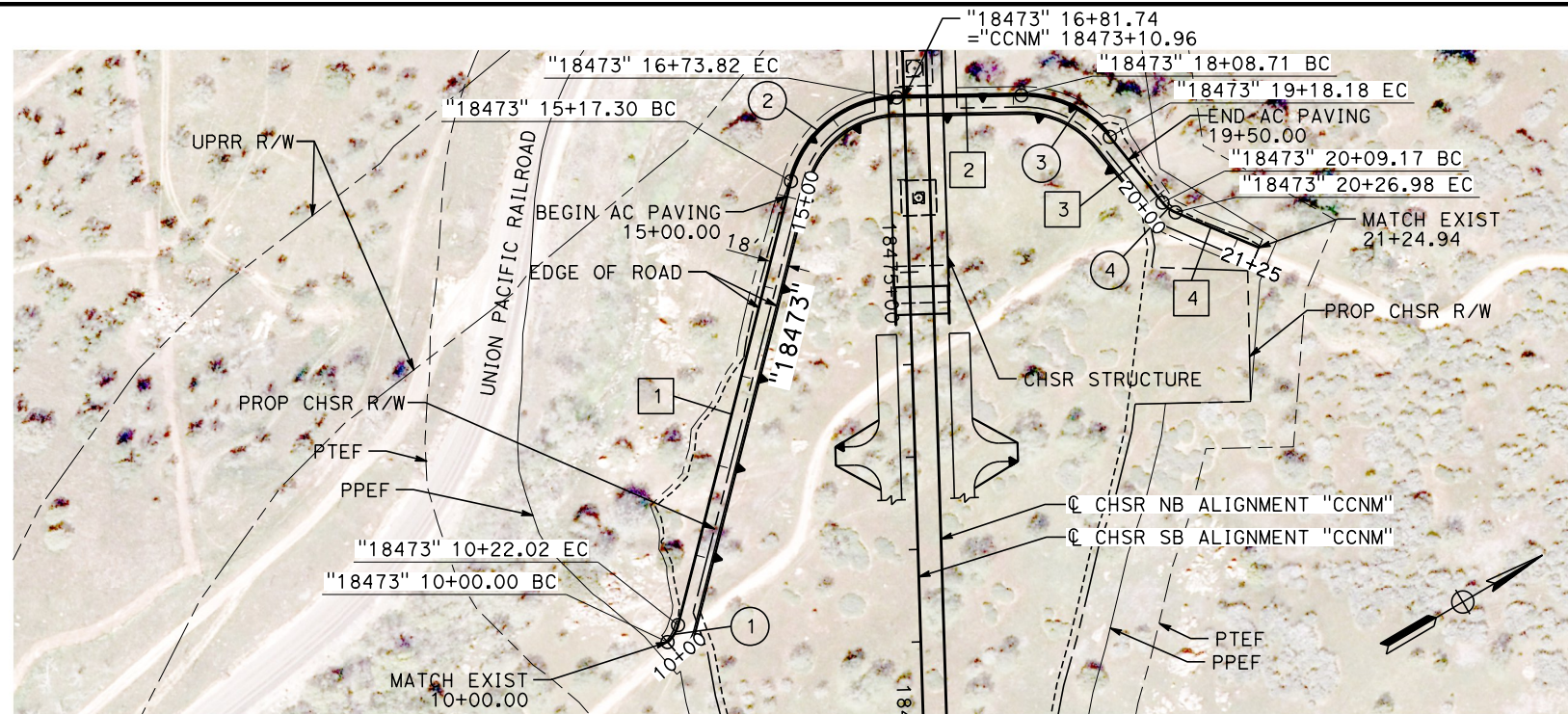
**NOT FOR
CONSTRUCTION**



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

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

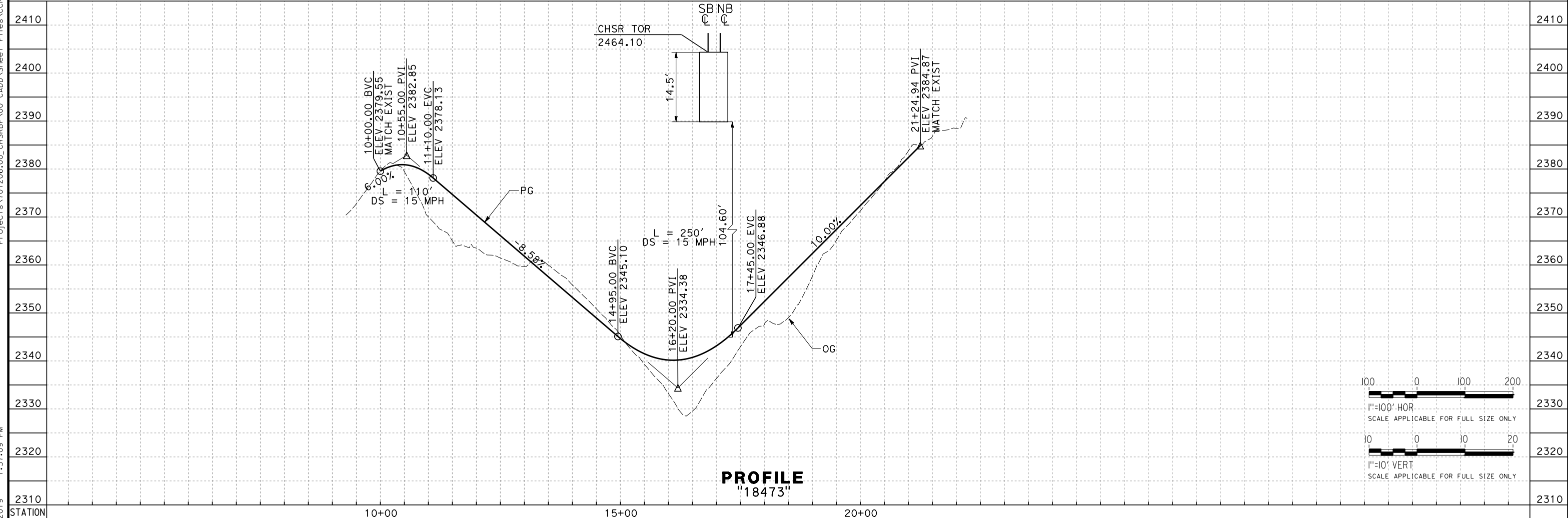
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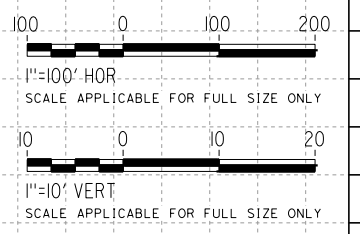
PLAN

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'



PROFILE
"18473"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
 DRAWN BY
D. LOPEZ
 CHECKED BY
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

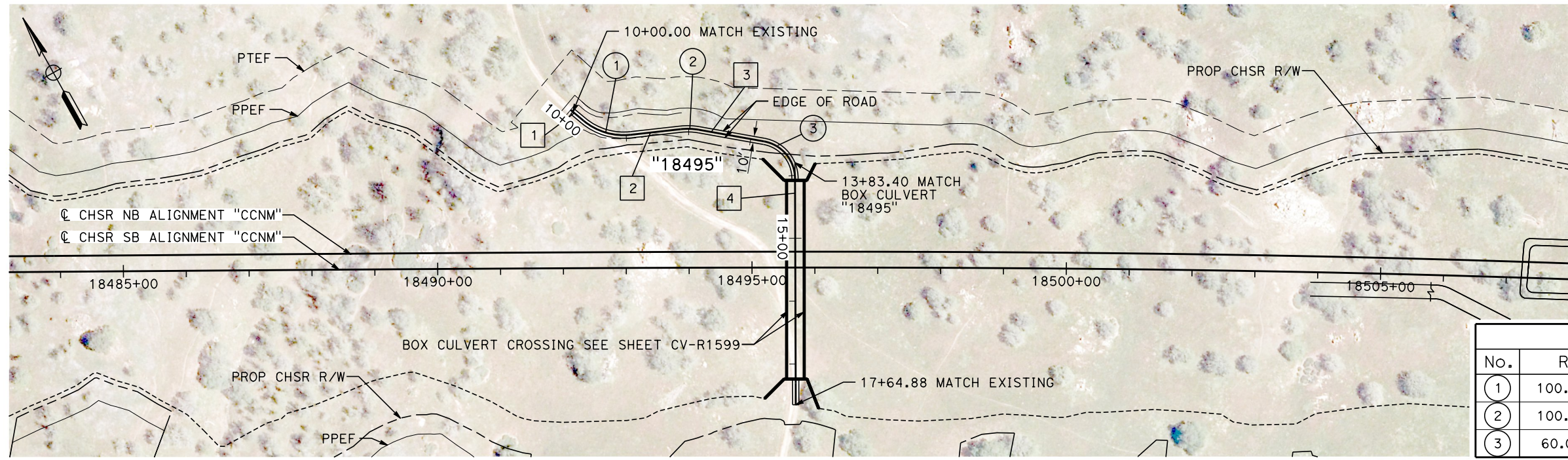
**NOT FOR
CONSTRUCTION**



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.

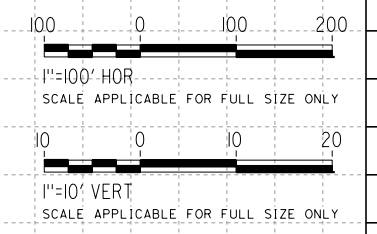
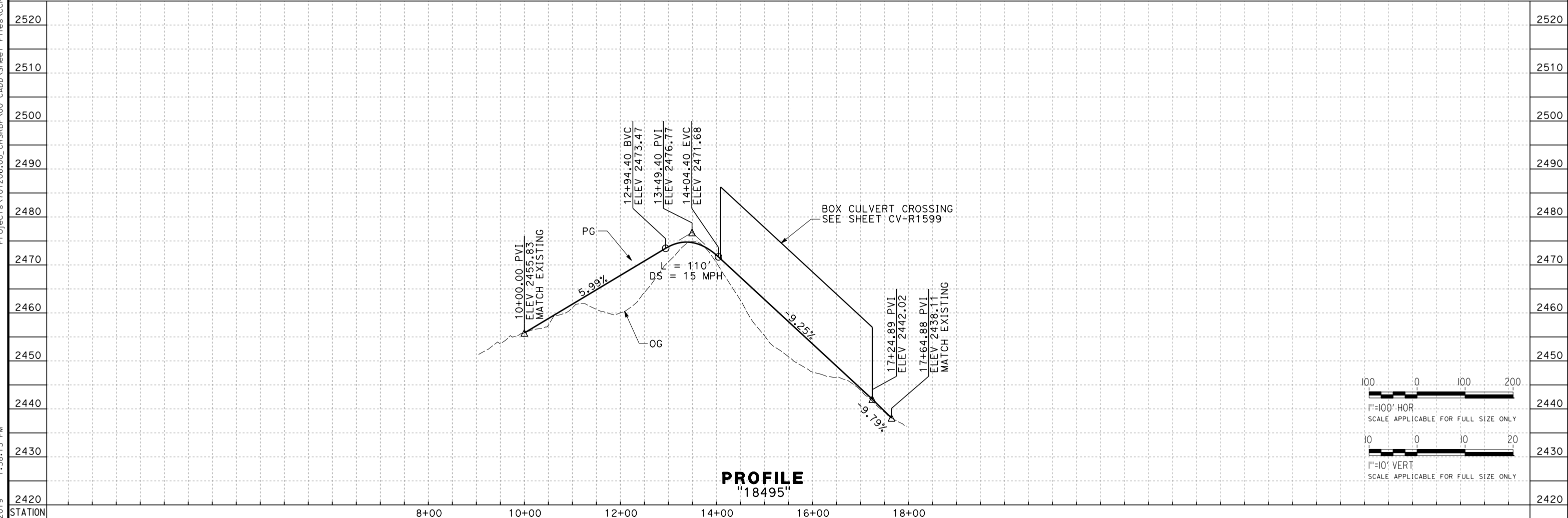
Projects\T01206\00_CHSRBP\00_CADD\Sheet Files\CCNM\CV\BP-CV-R1602
 2/27/2019 1:38:13 PM
 OIC:ARivera



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
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

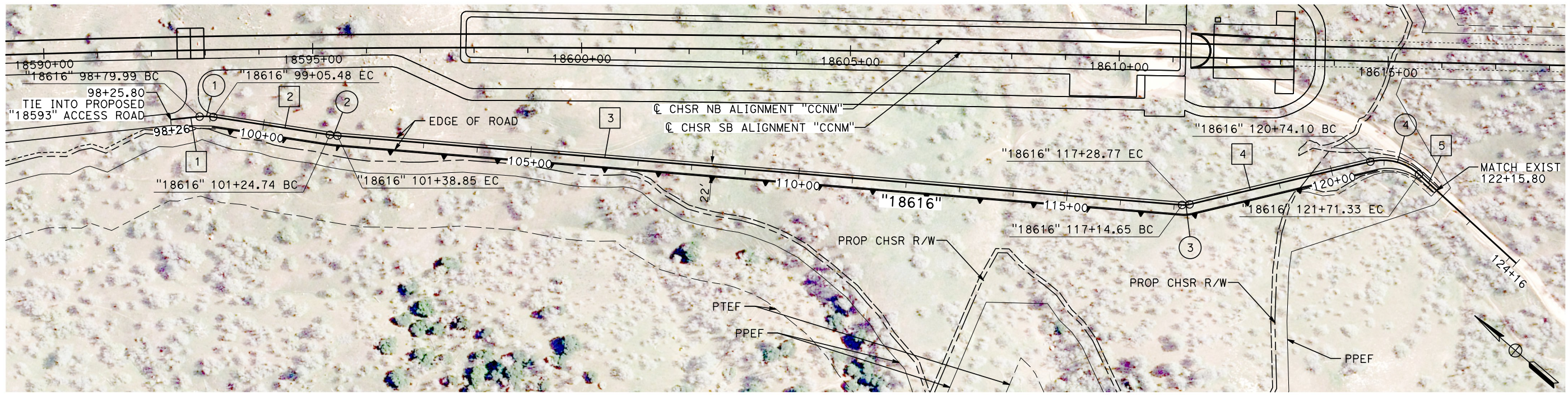
**NOT FOR
CONSTRUCTION**



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

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

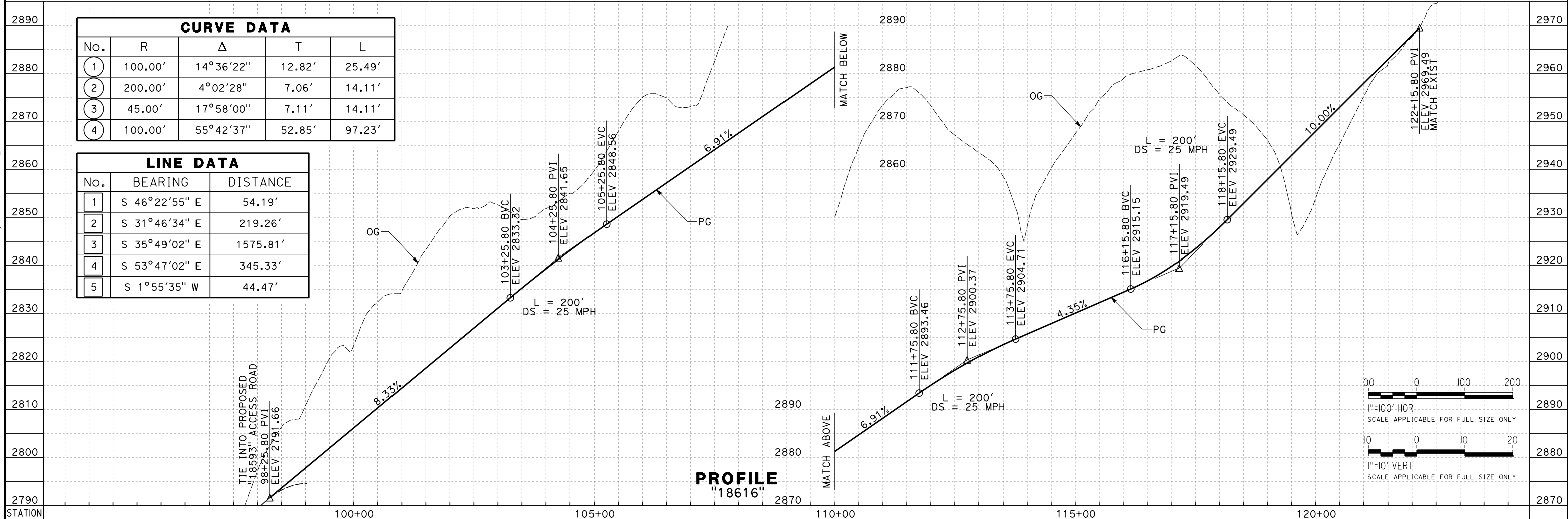
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PLAN

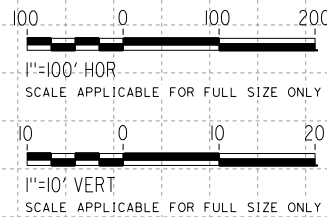
CURVE DATA				
No.	R	Δ	T	L
1	100.00'	14°36'22"	12.82'	25.49'
2	200.00'	4°02'28"	7.06'	14.11'
3	45.00'	17°58'00"	7.11'	14.11'
4	100.00'	55°42'37"	52.85'	97.23'

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	1575.81'
4	S 53°47'02" E	345.33'
5	S 1°55'35" W	44.47'



PROFILE

"18616"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
 DRAWN BY
D. LOPEZ
 CHECKED BY
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

**RECORD
 PERM
 SUBMITTAL**

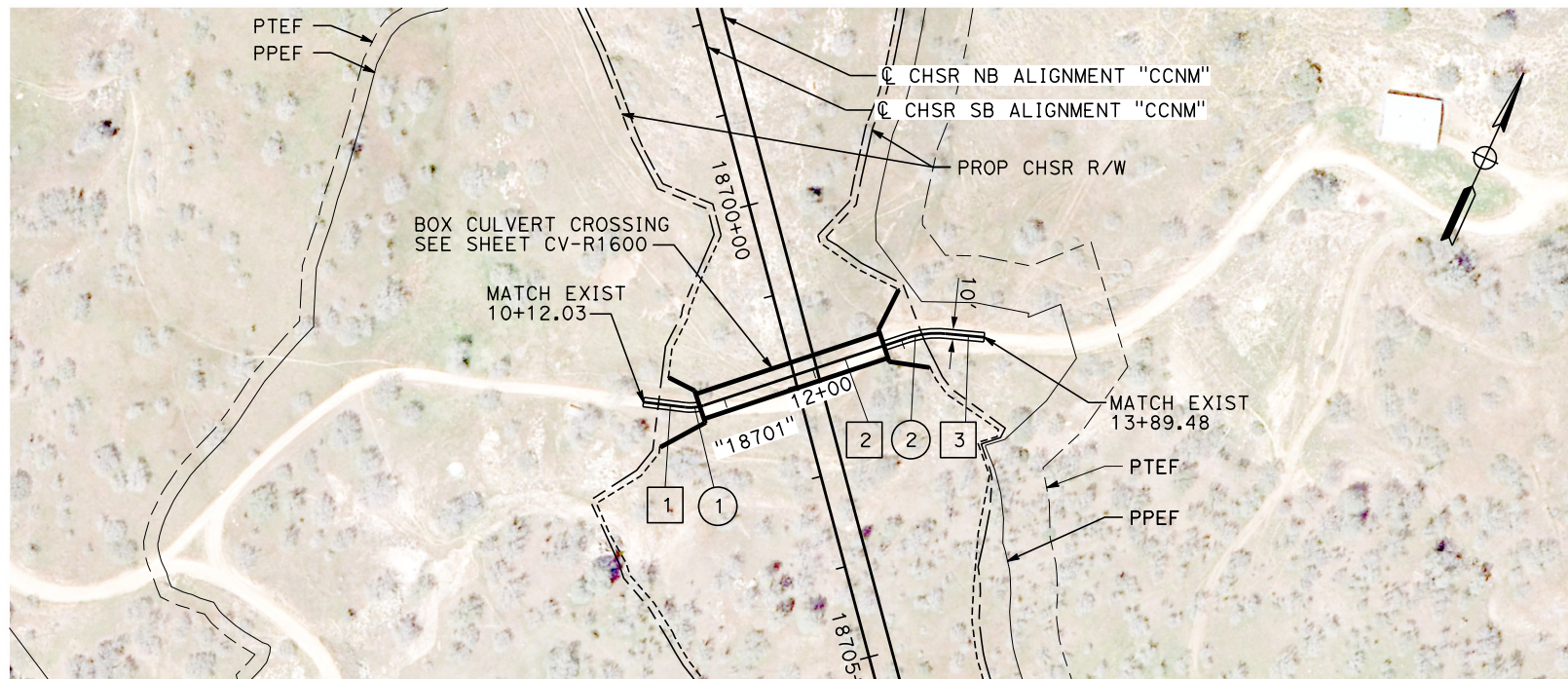
**NOT FOR
 CONSTRUCTION**



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

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

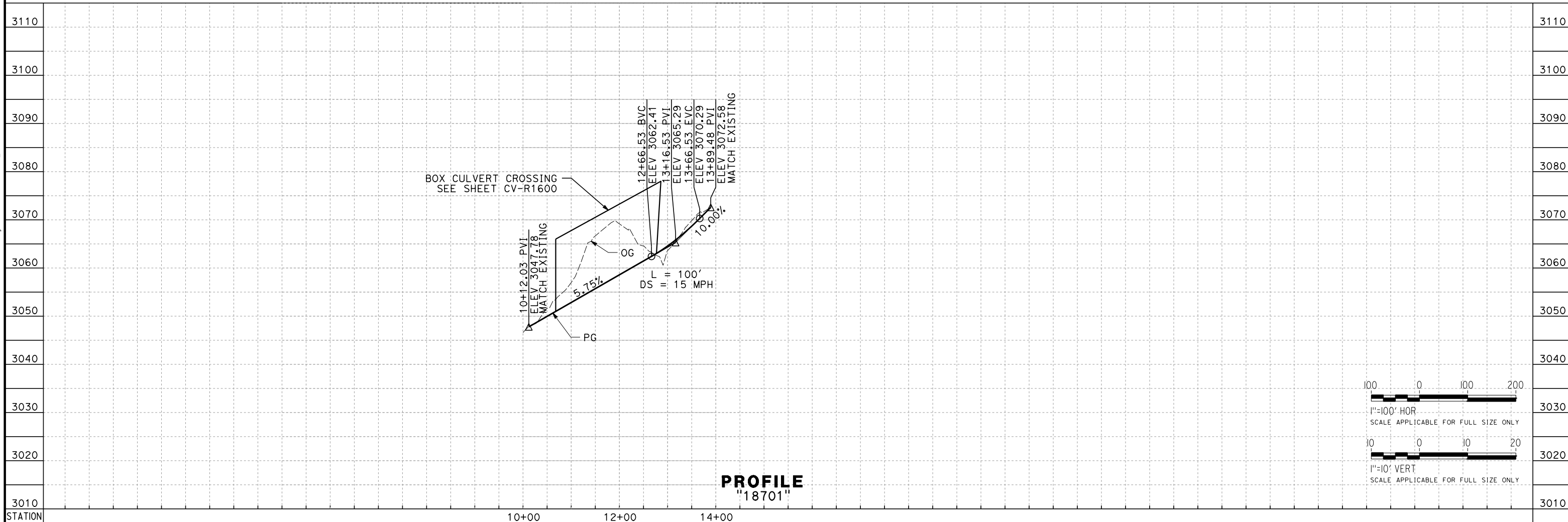
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 2/27/2019 1:39:05 PM
 OIC:ARivera



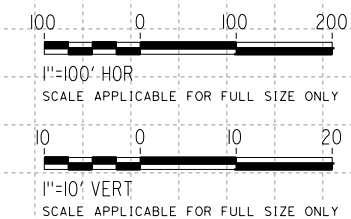
PLAN

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'



PROFILE
"18701"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
 DRAWN BY
D. LOPEZ
 CHECKED BY
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

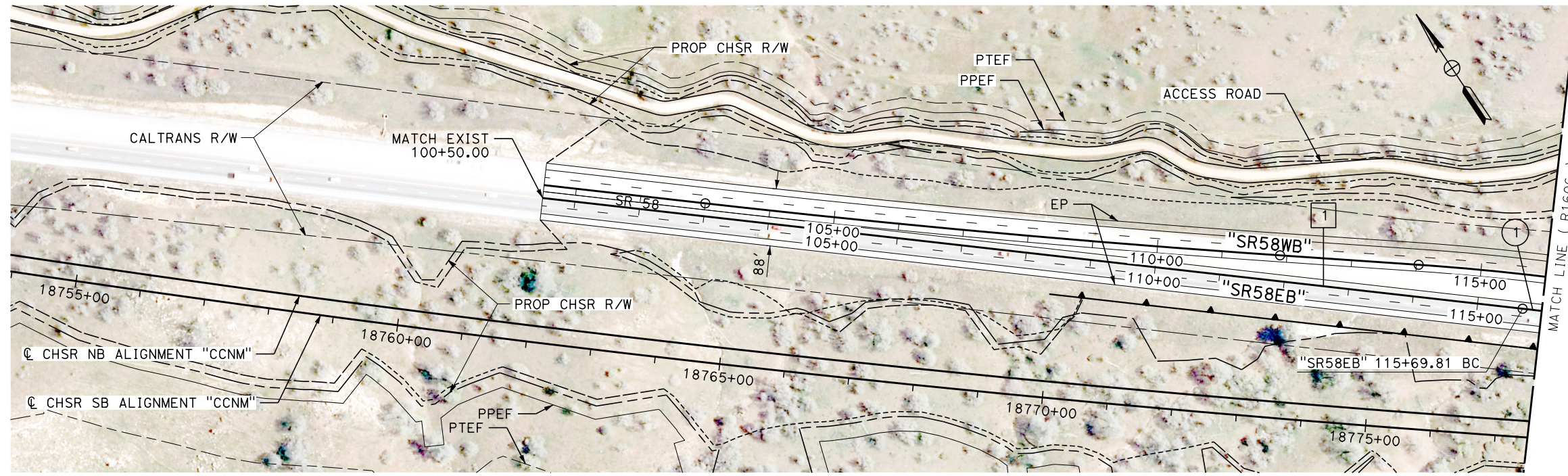
**NOT FOR
CONSTRUCTION**

TYLIN INTERNATIONAL



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

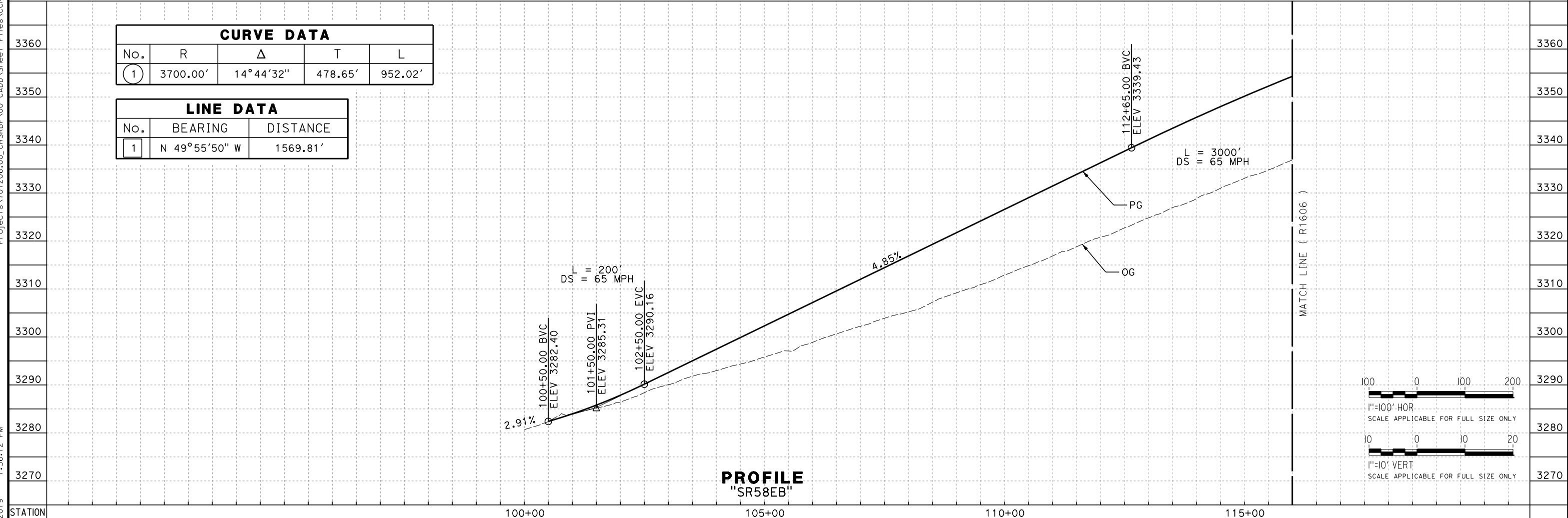
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HSR13-44
 DRAWING NO.
CV-R1604
 SCALE
AS SHOWN
 SHEET NO.



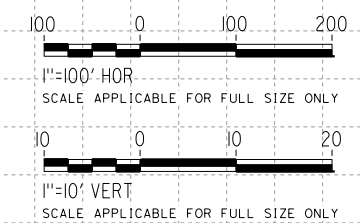
PLAN

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	1569.81'



PROFILE
"SR58EB"



Projects\01206\00_CHSRBP\00_CADD\Sheet_Files\CCNM\CV\BP-CV-R1605
 2/27/2019 1:36:12 PM
 OIC:ARivera

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
 DRAWN BY
D. LOPEZ
 CHECKED BY
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

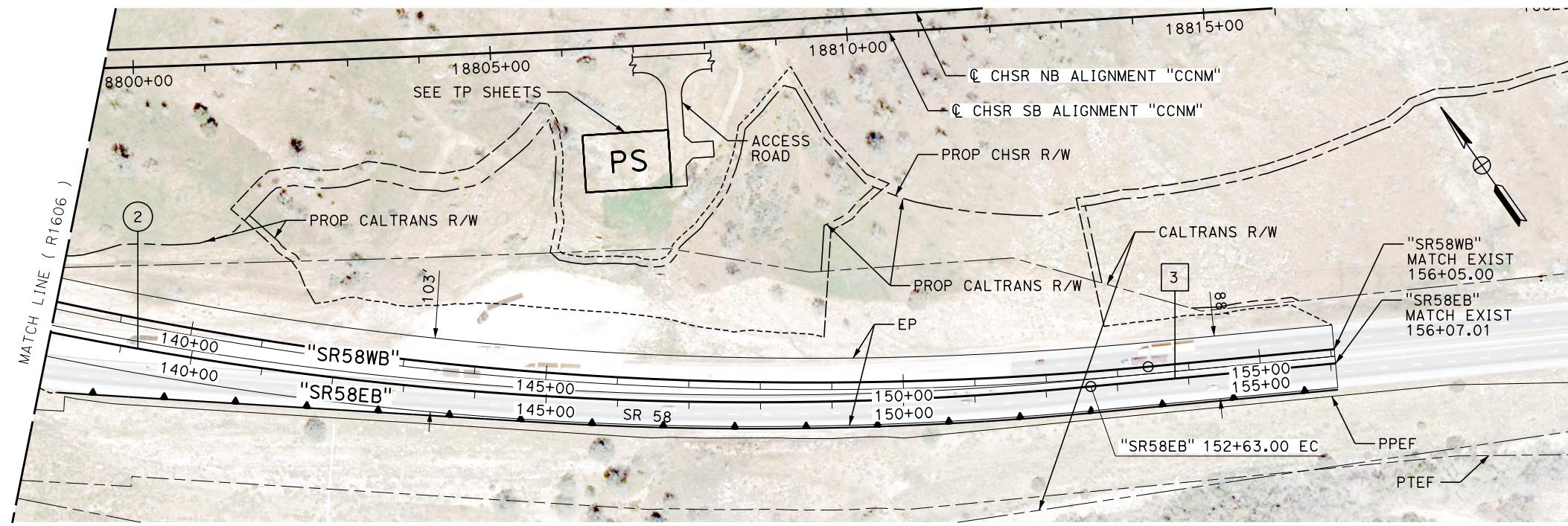
**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

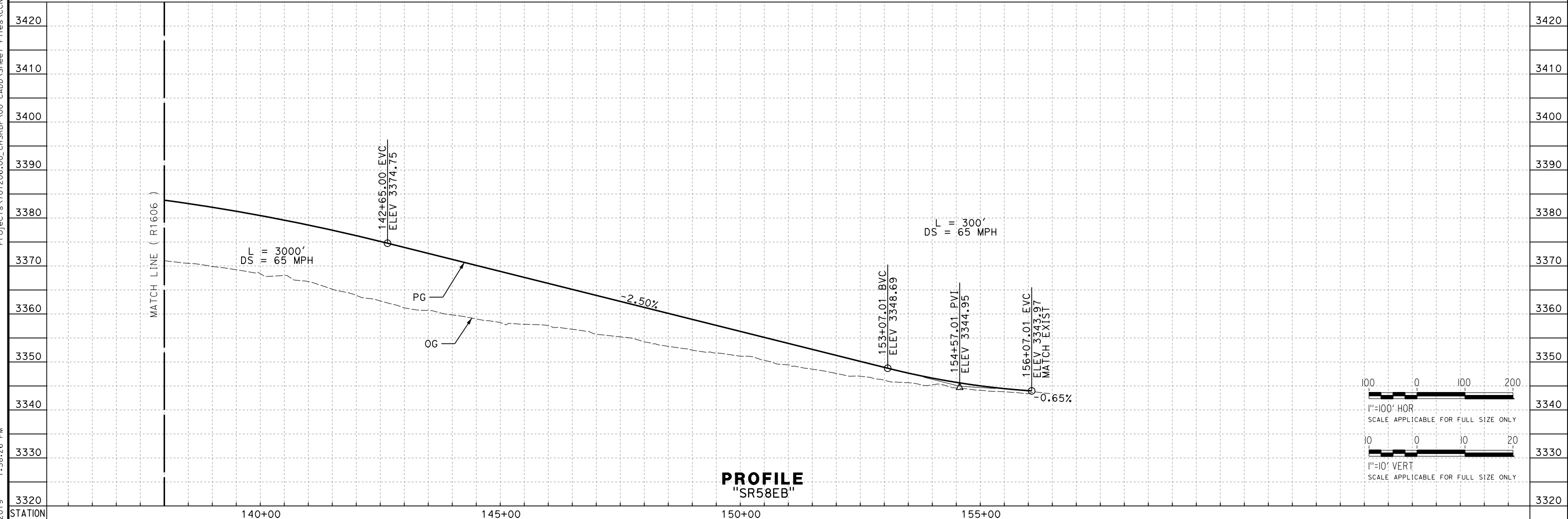
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HSR13-44
 DRAWING NO.
CV-R1605
 SCALE
AS SHOWN
 SHEET NO.



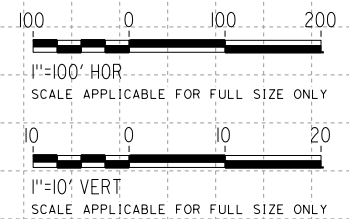
LINE DATA		
No.	BEARING	DISTANCE
3	S 60°13'31" E	344.01'

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

PLAN



PROFILE
"SR58EB"



Projects\701206.00_CHSRBP\00_CADD\Sheet Files\CCNM\CV\BP-CV-R1607
OIC:Arivera 2/27/2019 1:38:26 PM

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
DRAWN BY
D. LOPEZ
CHECKED BY
S. LANDOLT
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

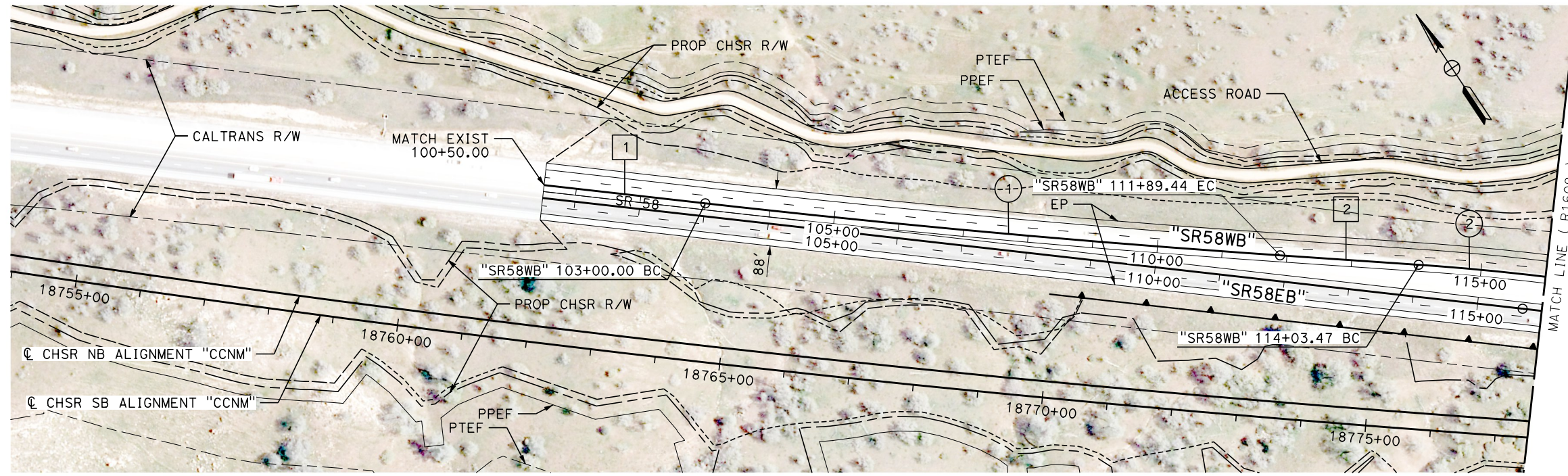
**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

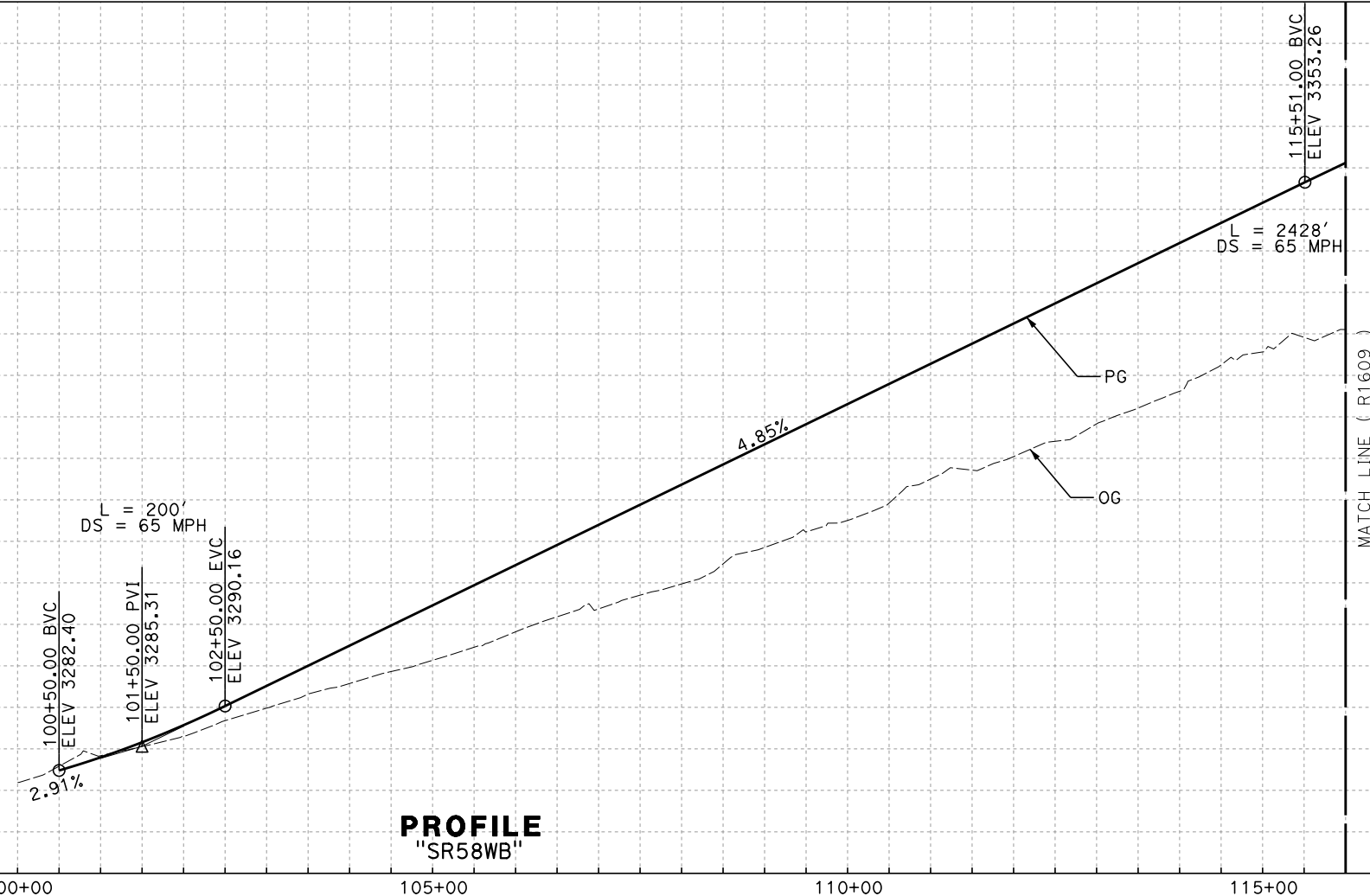
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HSR13-44
DRAWING NO.
CV-R1607
SCALE
AS SHOWN
SHEET NO.



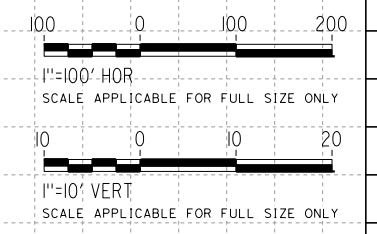
PLAN

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'	1132.56'

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA

DRAWN BY
D. LOPEZ

CHECKED BY
S. LANDOLT

IN CHARGE
G. CAMPBELL

DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

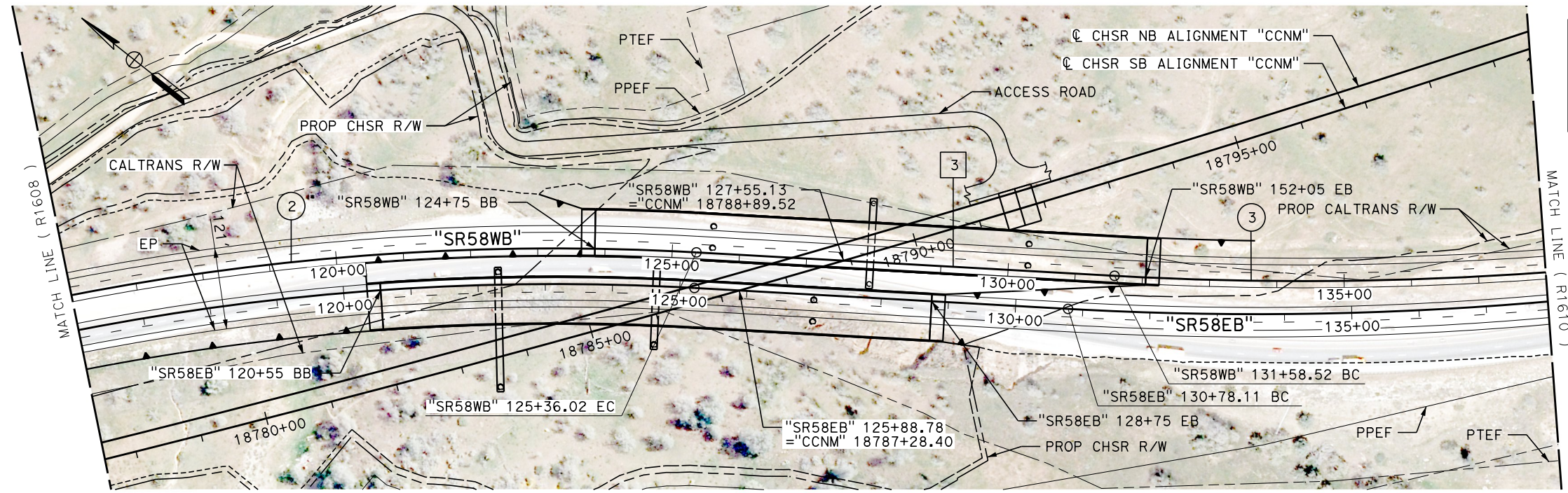
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ROADWAY
WESTBOUND STATE ROUTE 58
PLAN AND PROFILE

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-R1608

SCALE
AS SHOWN

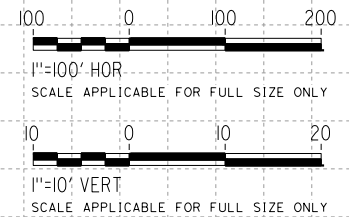
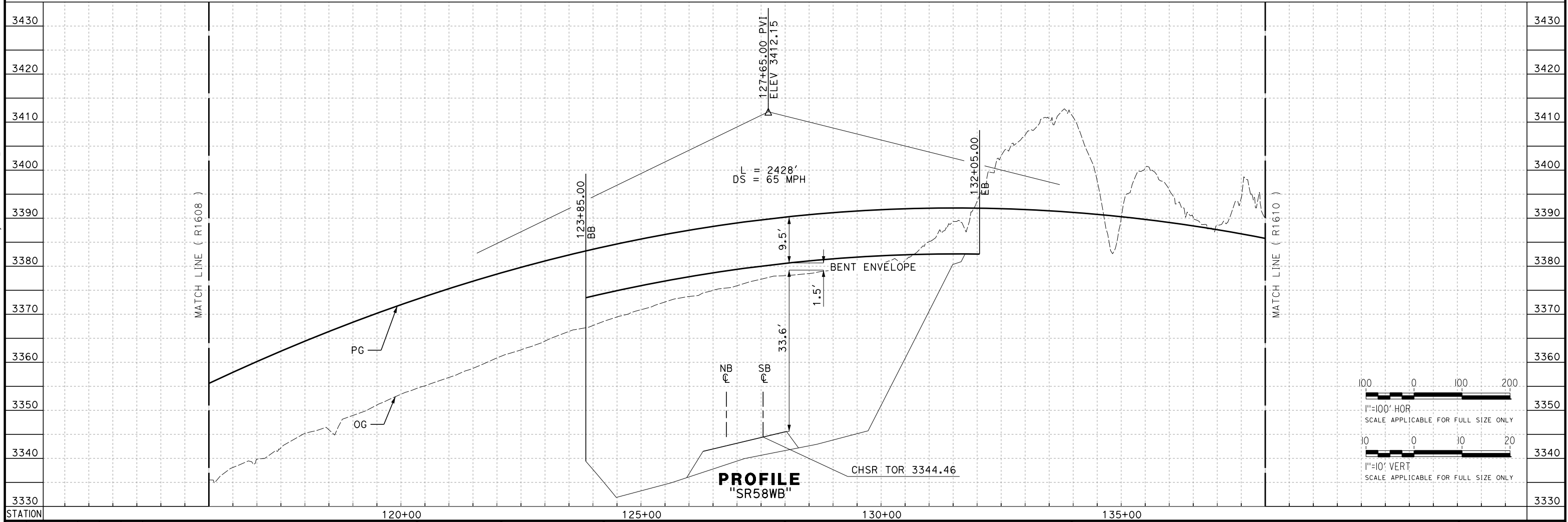
SHEET NO.



CURVE DATA				
No.	R	Δ	T	L
2	3753.00'	17°17'25"	570.62'	1132.56'
3	5000.00'	25°02'13"	1110.17'	2184.89'

LINE DATA		
No.	BEARING	DISTANCE
3	S 35°11'18" E	622.49'

PLAN



PROFILE
"SR58WB"

Projects\701206_00_CHSRBP\00_CADD\Sheet Files\CCNM\CV\BP-CV-R1609 2/27/2019 1:38:29 PM OIC:Arivera

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. RIVERA
DRAWN BY D. LOPEZ
CHECKED BY S. LANDOLT
IN CHARGE G. CAMPBELL
DATE 03/06/2019

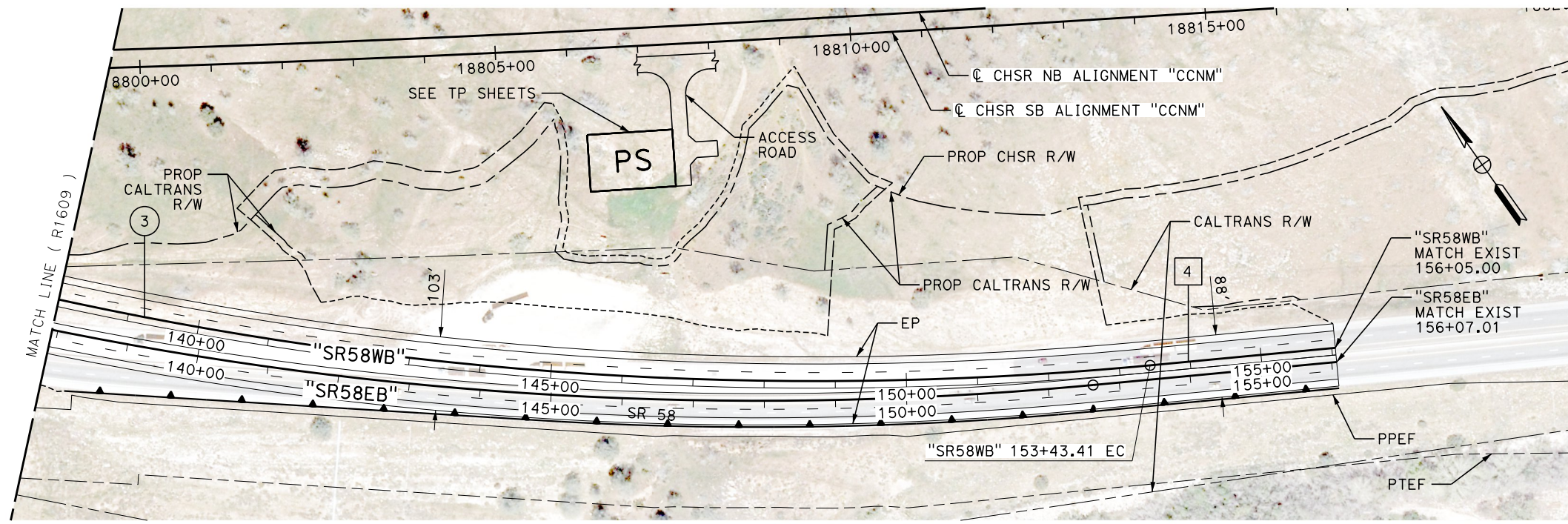
**RECORD
PEPD
SUBMITTAL**

**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-R1609
SCALE AS SHOWN
SHEET NO.



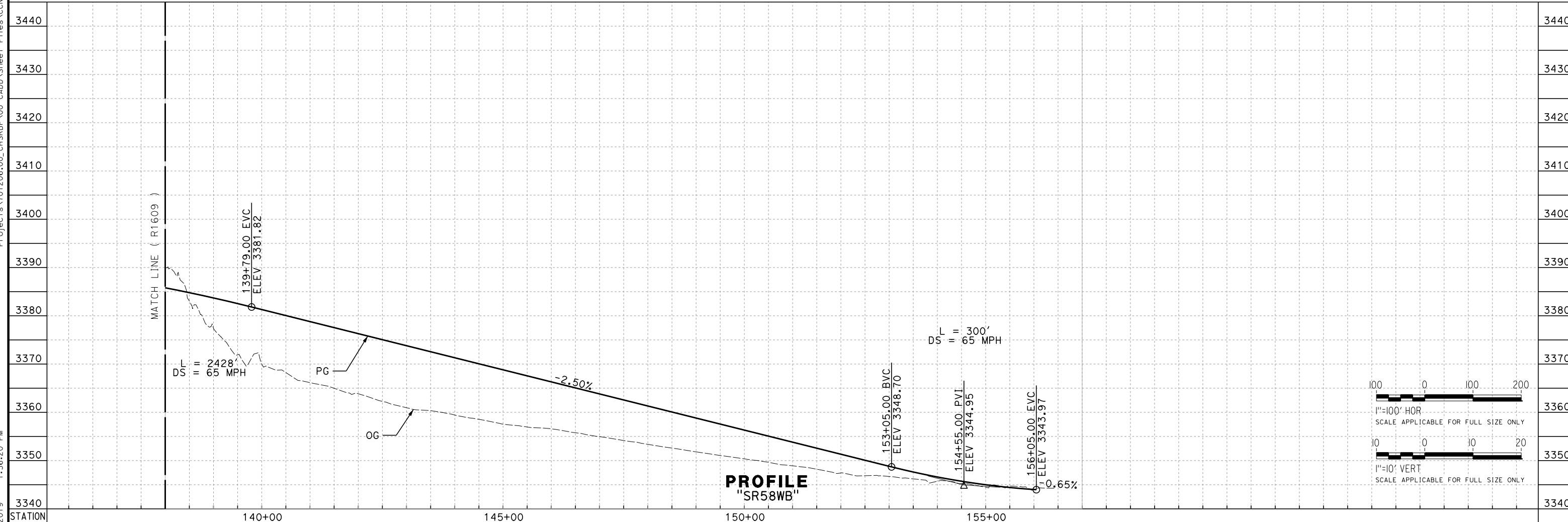
PLAN

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

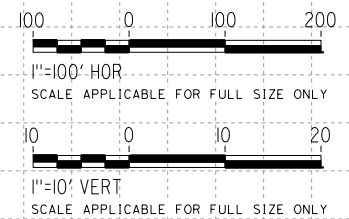
CURVE DATA				
No.	R	Δ	T	L
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Projects\01206\00_CHSRBP\00_CADD\Sheet Files\CCNM\CV\BP-CV-R1610

2/27/2019 1:36:20 PM



PROFILE
"SR58WB"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
DRAWN BY
D. LOPEZ
CHECKED BY
S. LANDOLT
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
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.

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
S. LANDOLT
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

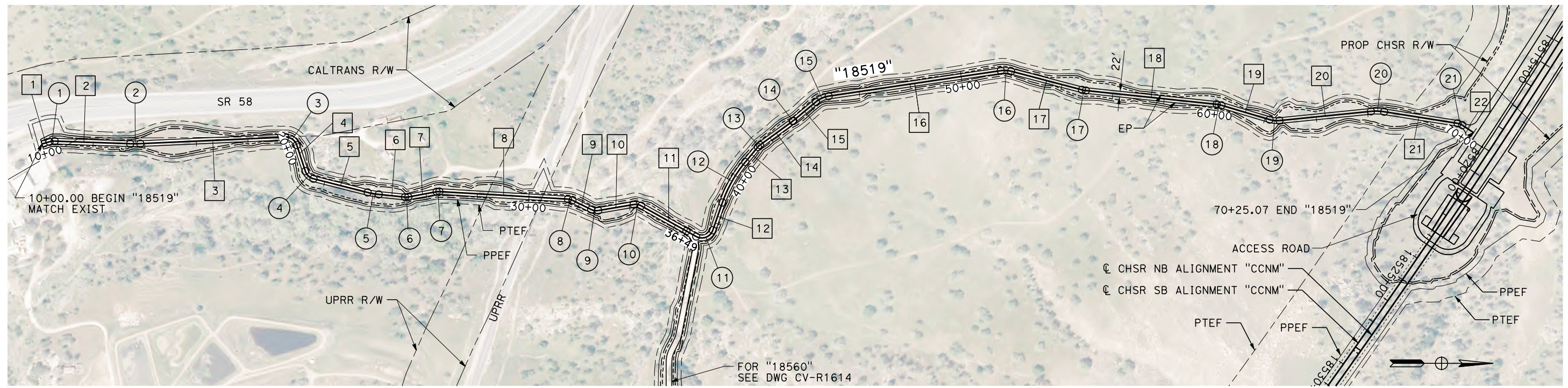
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CONSTRUCTION**



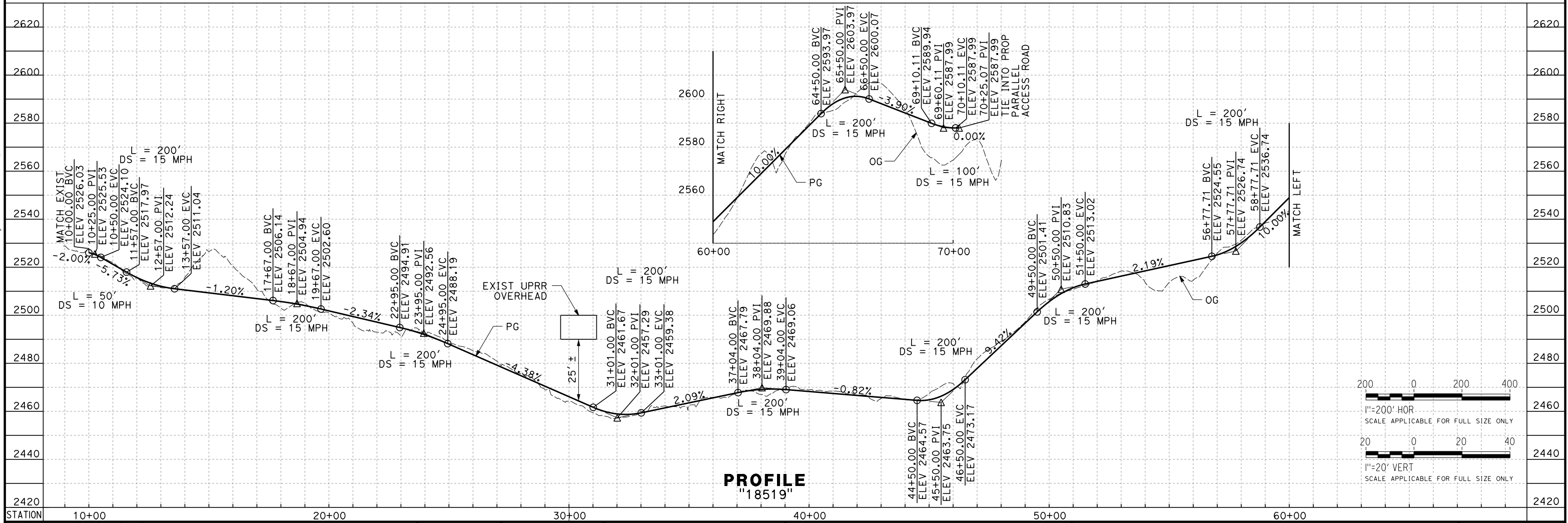
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18519"
HORIZONTAL ALIGNMENT DATA TABLE

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

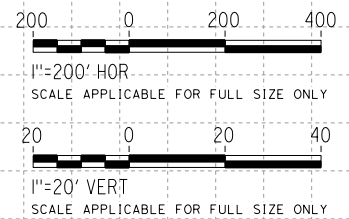
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 2/27/2019 1:36:30 PM
 OIC:ARivera



PLAN



PROFILE
"18519"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
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D. LOPEZ
 CHECKED BY
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

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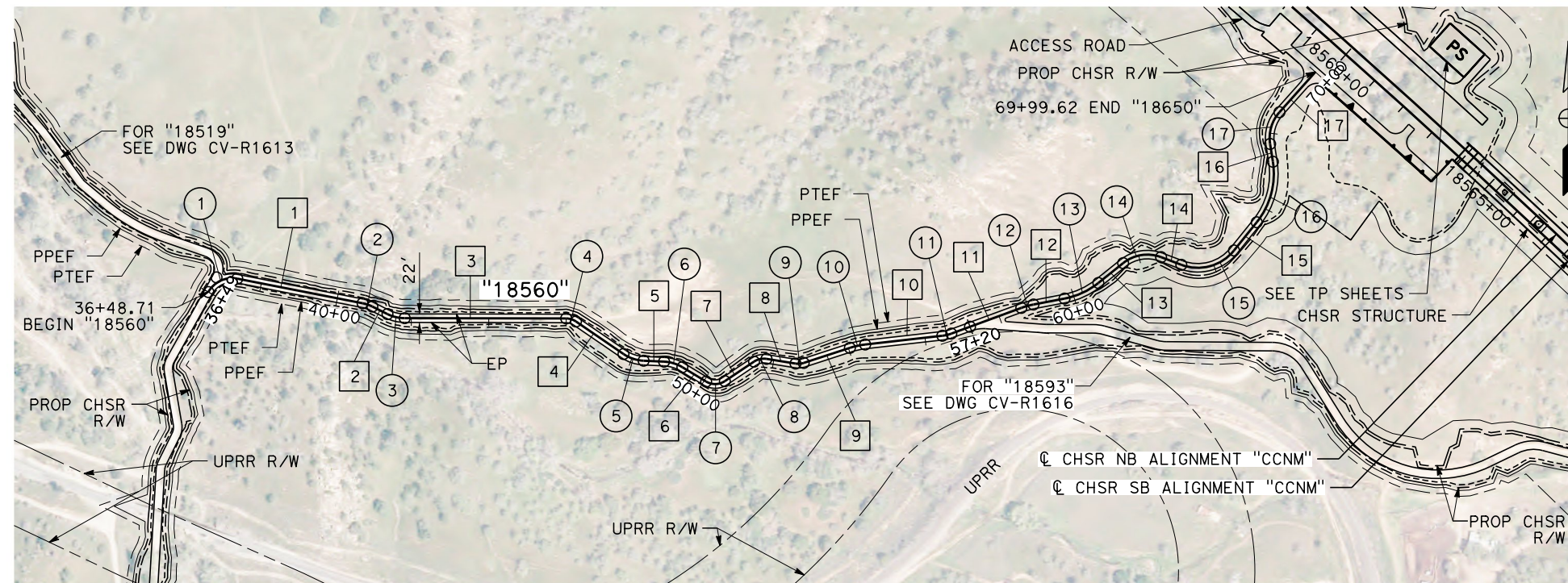


CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 CCNM DESIGN OPTION
 ROADWAY
 ACCESS ROAD "18519"
 PLAN AND PROFILE

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

LINE DATA

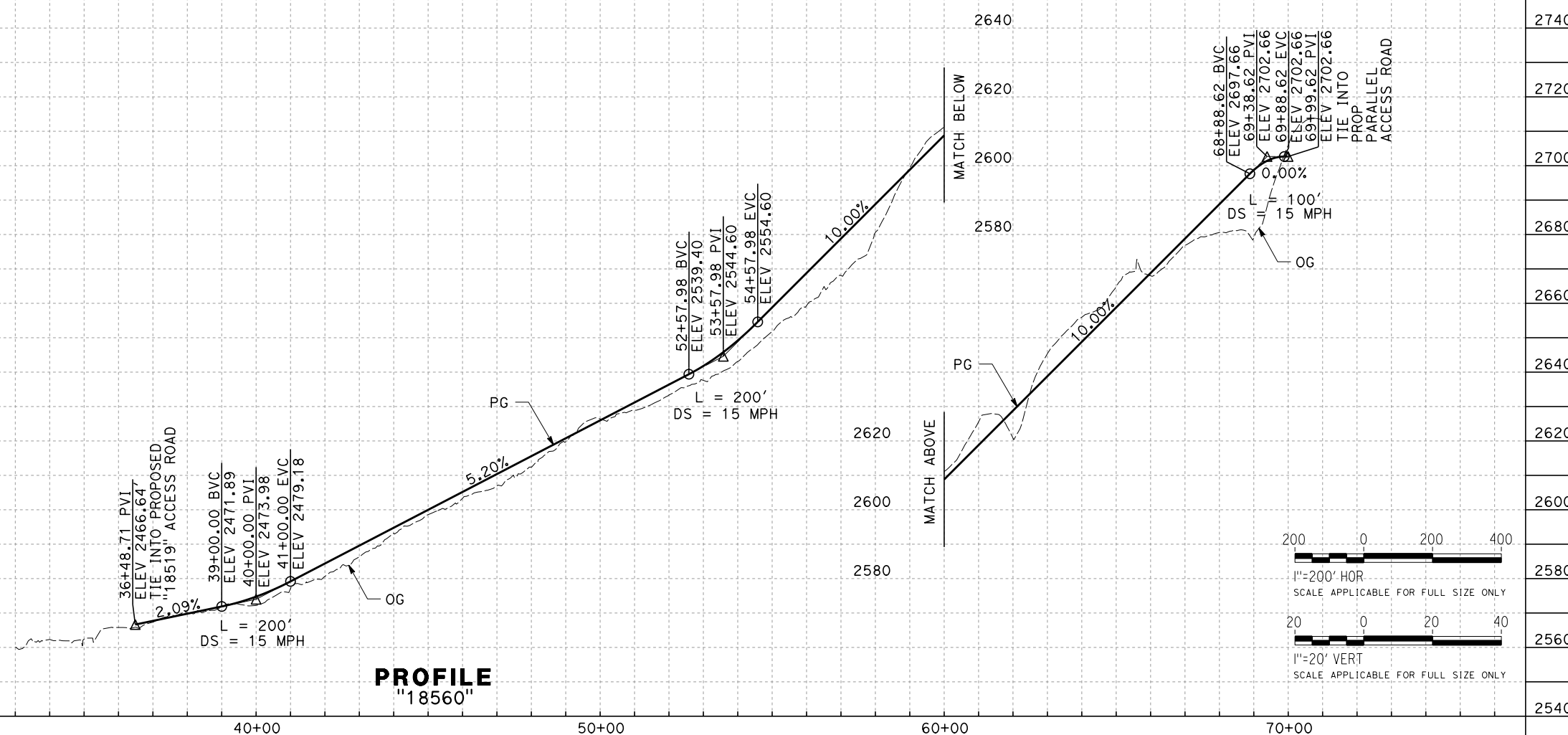
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1	S 78°53'19" E	329.77'
2	S 63°31'48" E	43.67'
3	S 89°54'06" E	416.97'
4	S 55°36'12" E	148.68'
5	S 87°23'23" E	53.03'
6	S 58°48'48" E	71.67'
7	N 56°08'58" E	90.67'
8	S 80°48'24" E	75.87'
9	N 71°55'24" E	125.53'
10	N 83°29'51" E	200.57'
11	N 69°48'42" 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'



PLAN

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'



PROFILE
"18560"

Projects\701206.00_CHSRBP\00_CADD\Sheet_Files\CCNM\CV\BP-CV-R1614 1:36:16 PM 2/27/2019 OIC:Arivera

REV	DATE	BY	CHK	APP	DESCRIPTION

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A. RIVERA
DRAWN BY
D. LOPEZ
CHECKED BY
S. LANDOLT
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

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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.

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	151.55'
13	S 46°22'55" E	700.81'
14	N 48°25'43" E	56.49'

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'	29°02'06"	51.79'	101.35'
14	45.00'	85°11'22"	41.37'	66.91'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
DRAWN BY
D. LOPEZ
CHECKED BY
S. LANDOLT
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

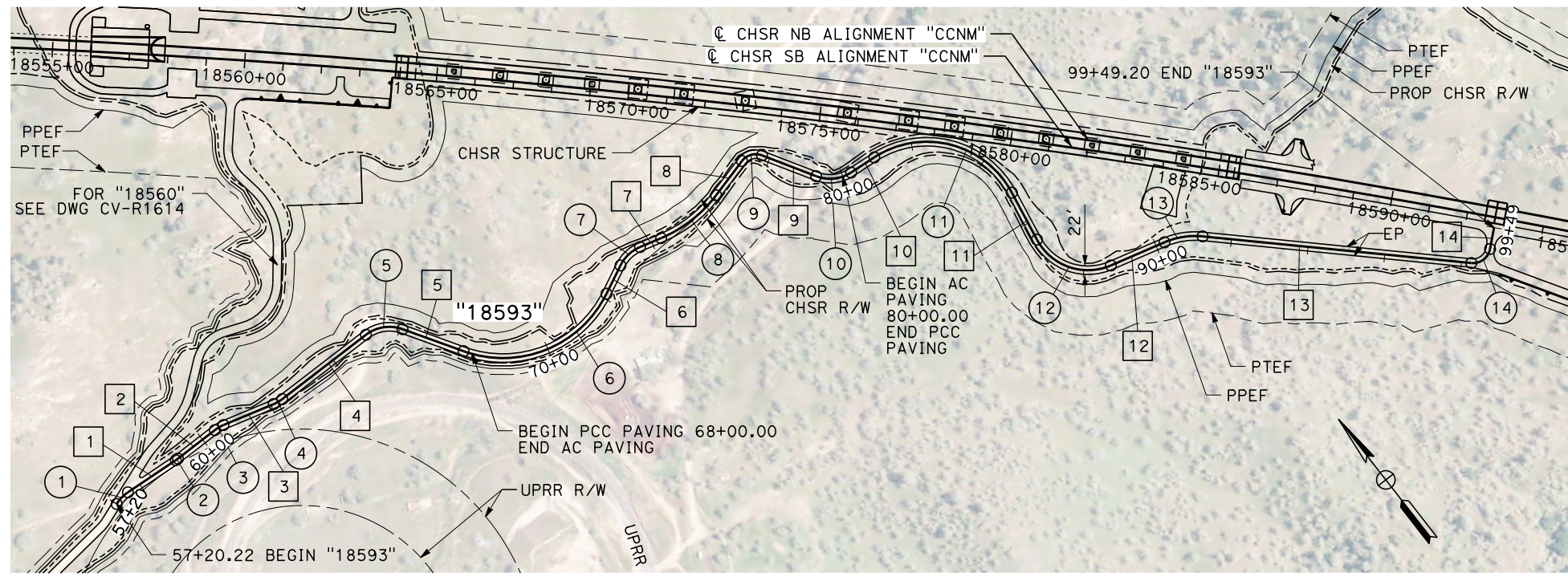
**NOT FOR
CONSTRUCTION**



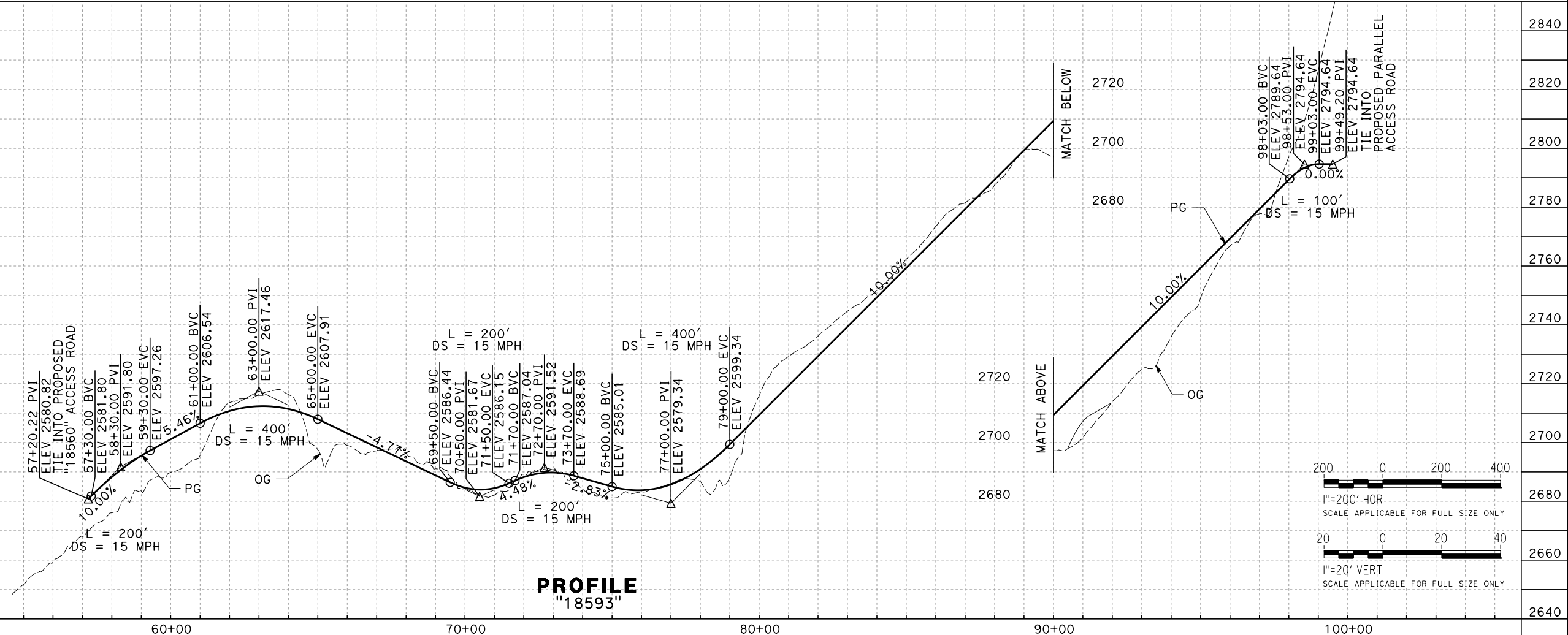
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18593"
HORIZONTAL ALIGNMENT DATA TABLE

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

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PLAN



PROFILE
"18593"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
 DRAWN BY
D. LOPEZ
 CHECKED BY
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

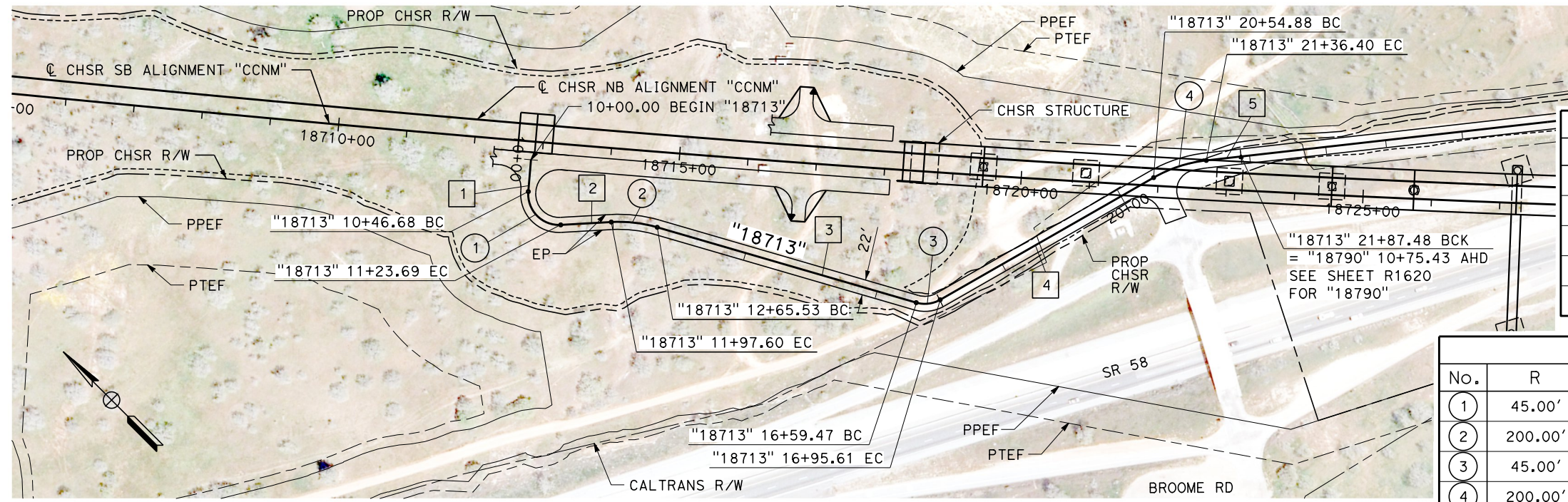
**NOT FOR
CONSTRUCTION**



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

CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-R1616
 SCALE
AS SHOWN
 SHEET NO.

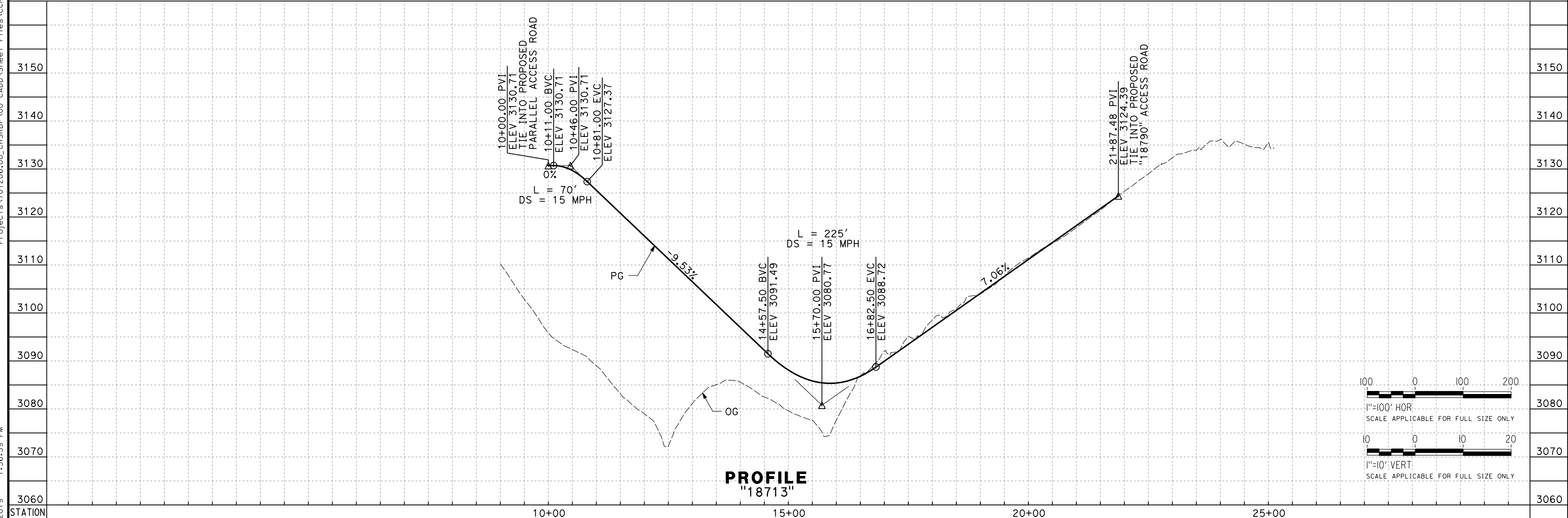
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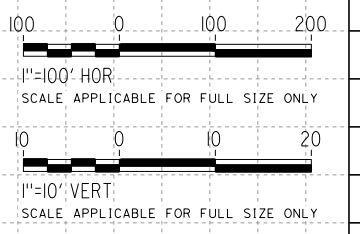
LINE DATA		
No.	BEARING	DISTANCE
1	S 49°49'02" W	46.68'
2	S 48°13'49" E	73.91'
3	S 28°46'08" E	393.93'
4	S 74°47'22" E	359.27'
5	S 51°26'12" E	51.08'

CURVE DATA				
No.	R	Δ	T	L
1	45.00'	98°02'51"	51.81'	77.01'
2	200.00'	19°27'41"	34.30'	67.93'
3	45.00'	46°01'14"	19.11'	36.14'
4	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
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

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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.

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

CURVE DATA				
No.	R	Δ	T	L
2	100.00'	24°56'15"	22.11'	43.52'
3	100.00'	9°28'40"	8.29'	16.54'
4	400.00'	30°02'22"	107.33'	209.71'
5	45.00'	31°39'58"	12.76'	24.87'
6	300.00'	28°06'25"	75.10'	147.17'
7	200.00'	28°37'29"	51.03'	99.92'
8	500.00'	6°06'39"	26.69'	53.33'
9	400.00'	34°55'46"	125.85'	243.85'
10	100.00'	17°25'00"	15.32'	30.40'
11	80.00'	37°37'08"	27.25'	52.53'
12	100.00'	23°25'10"	20.73'	40.87'
13	300.00'	12°57'03"	34.05'	67.81'
14	150.00'	35°50'40"	48.51'	93.84'
15	100.00'	22°58'11"	20.32'	40.09'
16	100.00'	23°47'28"	21.07'	41.52'
17	100.00'	6°41'46"	5.85'	11.69'
18	45.00'	27°59'41"	11.22'	21.99'
19	45.00'	36°01'56"	14.64'	28.30'
20	150.00'	33°02'20"	44.49'	86.50'
21	45.00'	14°40'45"	5.80'	11.53'
22	200.00'	19°47'51"	34.90'	69.11'
23	45.00'	43°49'13"	18.10'	34.42'
24	100.00'	22°42'40"	20.08'	39.64'
25	100.00'	12°52'32"	11.28'	22.47'
26	200.00'	13°16'53"	23.28'	46.36'
27	100.00'	14°14'04"	12.49'	24.84'
28	100.00'	11°53'42"	10.42'	20.76'
29	200.00'	13°56'26"	24.45'	48.66'
30	80.00'	97°30'04"	91.22'	136.14'
31	45.00'	80°03'59"	37.8'	62.88'
32	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
S. LANDOLT
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

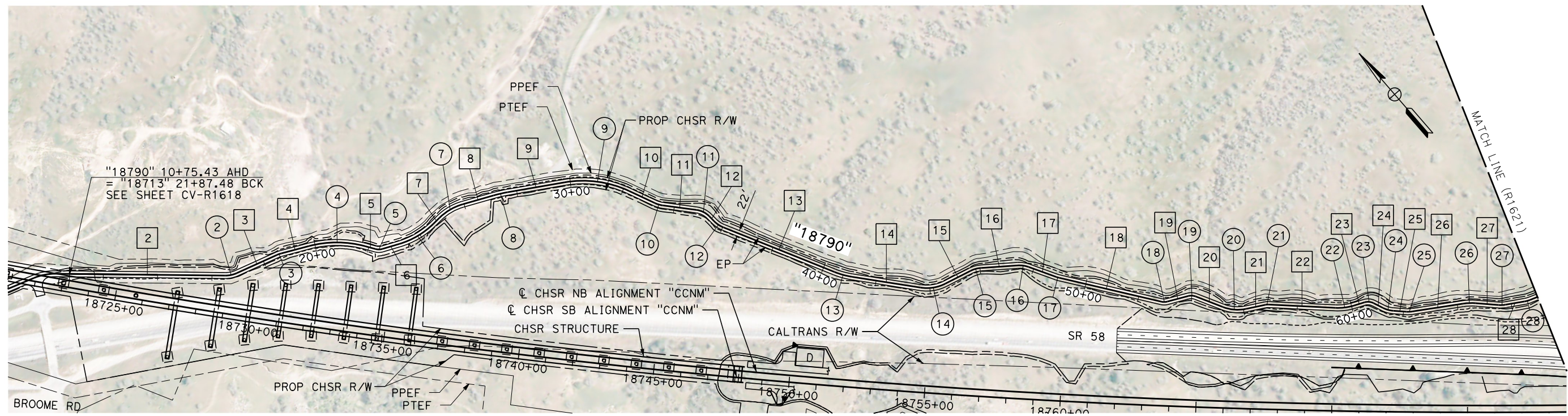
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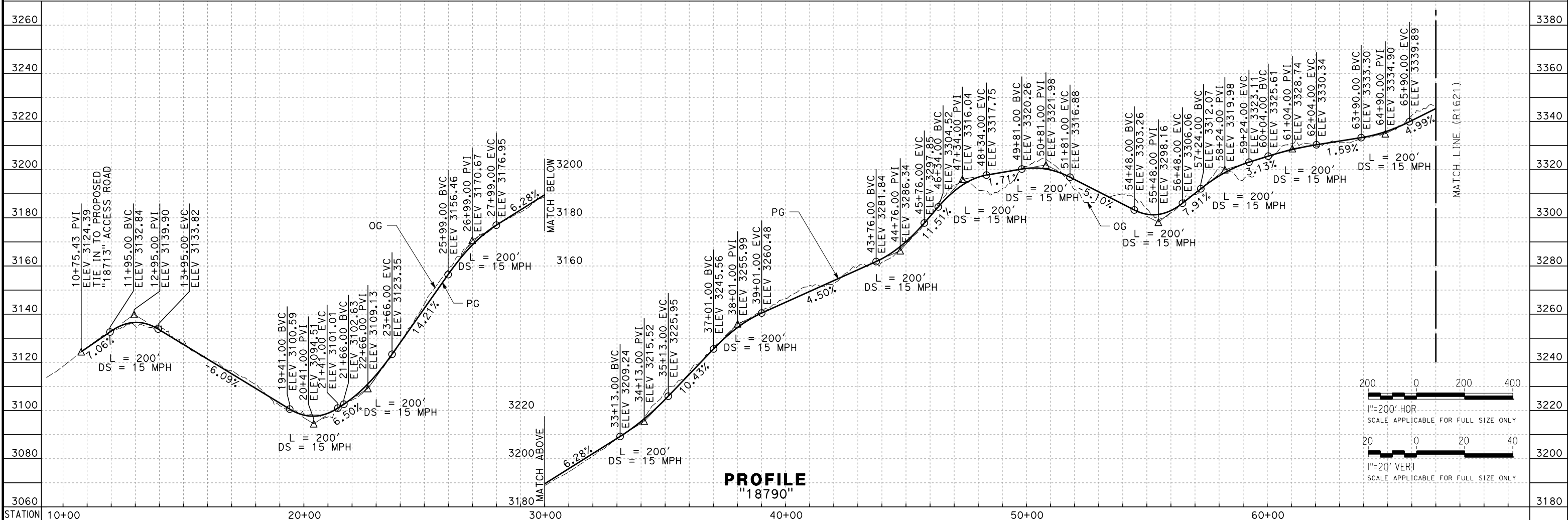
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
CCNM DESIGN OPTION
ROADWAY
ACCESS ROAD "18790"
HORIZONTAL ALIGNMENT DATA TABLE

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-R1619
SCALE
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SHEET NO.

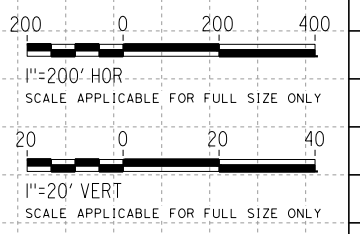
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PLAN



PROFILE
"18790"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
 DRAWN BY
D. LOPEZ
 CHECKED BY
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

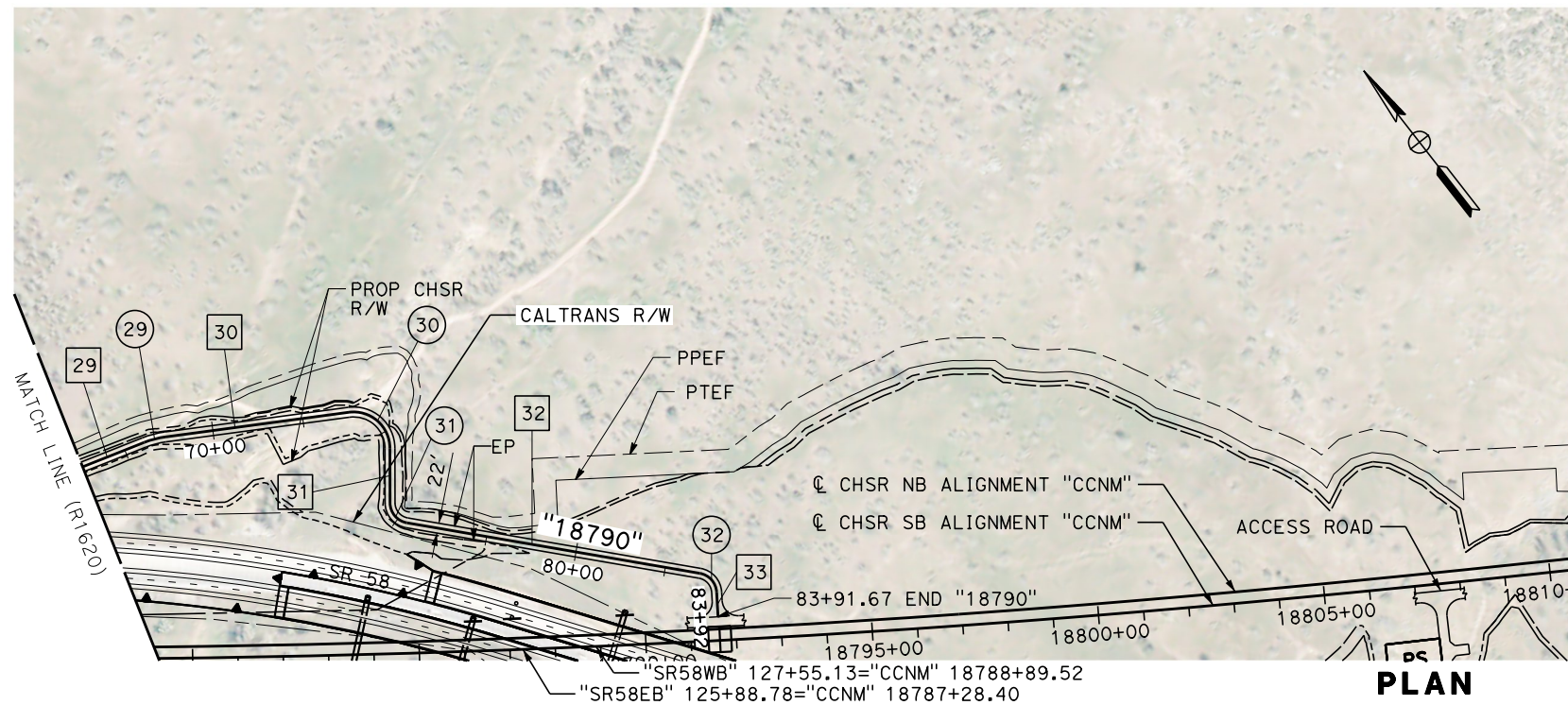
**NOT FOR
CONSTRUCTION**



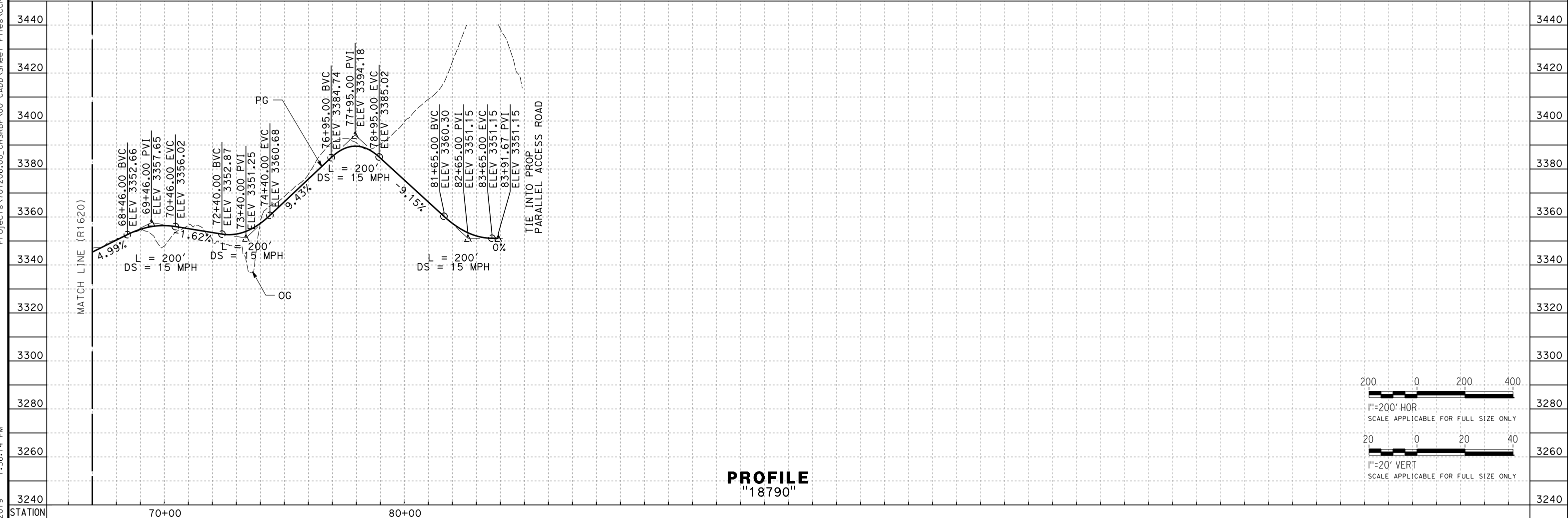
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 CCNM DESIGN OPTION
 ROADWAY
 ACCESS ROAD "18790"
 PLAN AND PROFILE

CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-R1620
 SCALE
AS SHOWN
 SHEET NO.

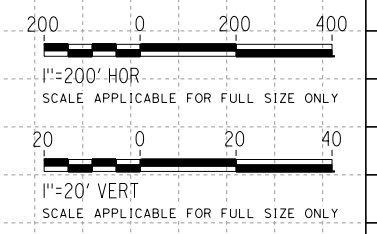
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PLAN



PROFILE
"18790"



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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D. LOPEZ
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 IN CHARGE
G. CAMPBELL
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03/06/2019

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

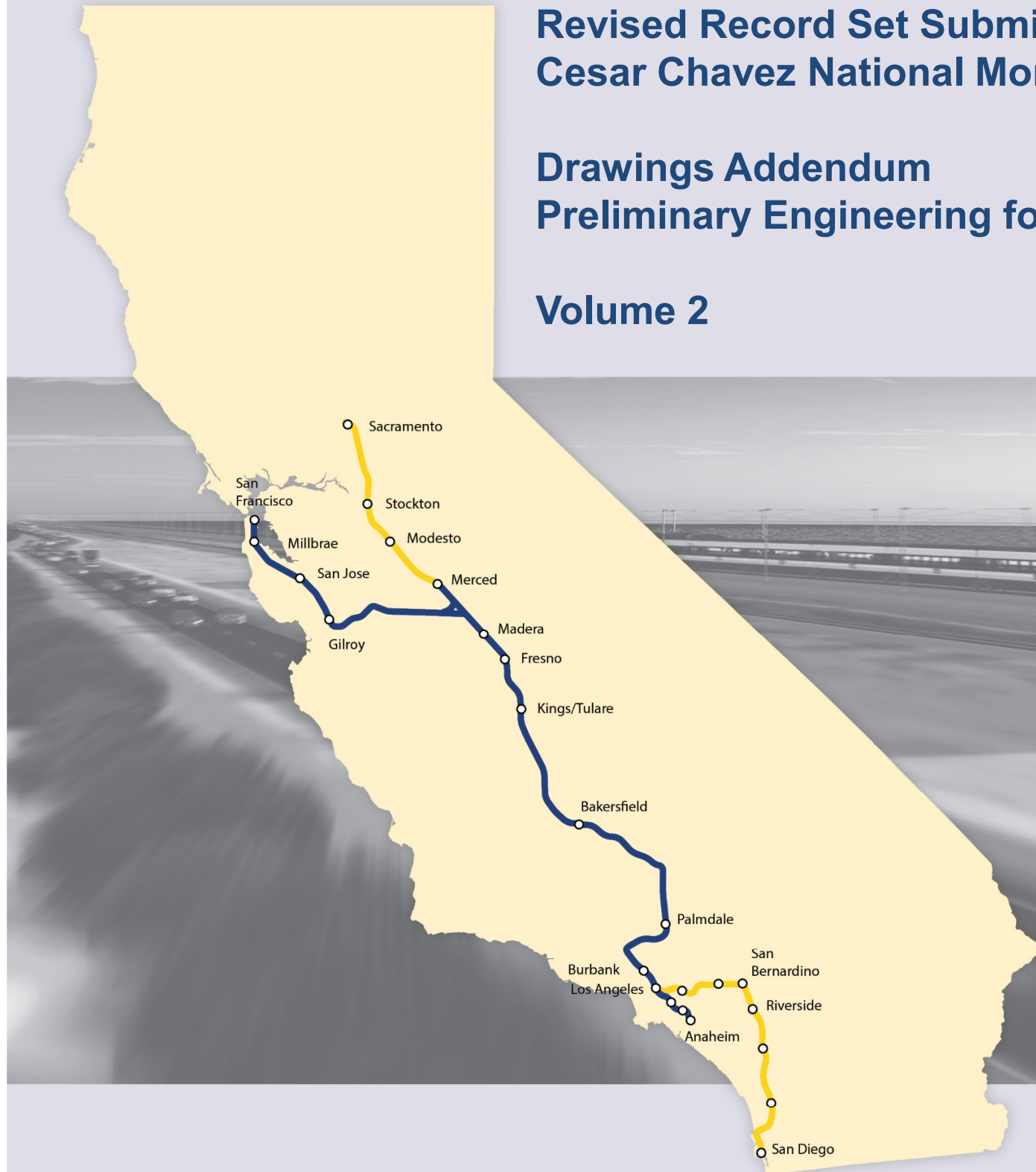
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HSR13-44
 DRAWING NO.
CV-R1621
 SCALE
AS SHOWN
 SHEET NO.

Bakersfield to Palmdale

Revised Record Set Submittal
Cesar Chavez National Monument (CCNM) Design Option

Drawings Addendum
Preliminary Engineering for Project Definition – March 2019

Volume 2



**VOLUME 1
GENERAL SHEETS**

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

ALIGNMENT

DRAWING No.	DRAWING DESCRIPTION
TT-B0101	CCNM DESIGN OPTION - TRACK GENERAL - SYMBOLS, LEGEND, AND GENERAL NOTES - SHEET 1 OF 1
TT-B0102	CCNM DESIGN OPTION - TRACK GENERAL - HORIZONTAL ALIGNMENT DATA TABLE - SHEET 1 OF 1
TT-B3101	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 1 OF 4
TT-B3102	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 2 OF 4
TT-B3103	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 3 OF 4
TT-B3104	CCNM DESIGN OPTION - TRACK GENERAL - TYPICAL SECTIONS - SHEET 4 OF 4
TT-C6101	CCNM DESIGN OPTION - TRACK GENERAL - KEY MAP - SHEET 1 OF 1
TT-D1301	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18458+80 TO 18485+00 - PLAN AND PROFILE
TT-D1302	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18485+00 TO 18535+00 - PLAN AND PROFILE
TT-D1303	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18535+00 TO 18585+00 - PLAN AND PROFILE
TT-D1304	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18585+00 TO 18635+00 - PLAN AND PROFILE
TT-D1305	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18635+00 TO 18685+00 - PLAN AND PROFILE
TT-D1306	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18685+00 TO 18735+00 - PLAN AND PROFILE
TT-D1307	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18735+00 TO 18785+00 - PLAN AND PROFILE
TT-D1308	CCNM DESIGN OPTION - TRACK GUIDEWAY - STA 18785+00 TO 18822+99 - PLAN AND PROFILE
TT-Y5001	CCNM DESIGN OPTION - TRACK GUIDEWAY - ACCESS ROAD TURN-AROUND - DETAILS

ROADWAY

DRAWING No.	DRAWING DESCRIPTION
CV-R0001	CCNM DESIGN OPTION - ROADWAY GENERAL - SYMBOLS, LEGEND, AND GENERAL NOTES - SHEET 1 OF 1
CV-R0002	CCNM DESIGN OPTION - ROADWAY GENERAL - TYPICAL SECTIONS - SHEET 1 OF 2
CV-R0003	CCNM DESIGN OPTION - ROADWAY GENERAL - TYPICAL SECTIONS - SHEET 2 OF 2
CV-R0004	CCNM DESIGN OPTION - ROADWAY GENERAL - KEY MAP - SHEET 1 OF 1
CV-R1599	CCNM DESIGN OPTION - ROADWAY - BOX CULVERT CROSSING "18497" - PLAN AND SECTIONS
CV-R1600	CCNM DESIGN OPTION - ROADWAY - BOX CULVERT CROSSING "18700" - PLAN AND SECTIONS
CV-R1601	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18473" - PLAN AND PROFILE
CV-R1602	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18495" - PLAN AND PROFILE
CV-R1603	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18616" - PLAN AND PROFILE
CV-R1604	CCNM DESIGN OPTION - ROADWAY - DIRT ROAD "18701" - PLAN AND PROFILE
CV-R1605	CCNM DESIGN OPTION - ROADWAY - EASTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1606	CCNM DESIGN OPTION - ROADWAY - EASTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1607	CCNM DESIGN OPTION - ROADWAY - EASTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1608	CCNM DESIGN OPTION - ROADWAY - WESTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1609	CCNM DESIGN OPTION - ROADWAY - WESTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1610	CCNM DESIGN OPTION - ROADWAY - WESTBOUND STATE ROUTE 58 - PLAN AND PROFILE
CV-R1612	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18519" - HORIZONTAL ALIGNMENT DATA TABLE
CV-R1613	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18519" - PLAN AND PROFILE
CV-R1614	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18560" - PLAN AND PROFILE
CV-R1615	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18593" - HORIZONTAL ALIGNMENT DATA TABLE
CV-R1616	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18593" - PLAN AND PROFILE
CV-R1618	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18713" - PLAN AND PROFILE
CV-R1619	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18790" - HORIZONTAL ALIGNMENT DATA TABLE
CV-R1620	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18790" - PLAN AND PROFILE
CV-R1621	CCNM DESIGN OPTION - ROADWAY - ACCESS ROAD "18790" - PLAN AND PROFILE

**VOLUME 2
CONSTRUCTION SEQUENCING**

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

GRADING, DRAINAGE AND RETAINING WALLS

DRAWING No.	DRAWING DESCRIPTION
CV-G0101	CCNM DESIGN OPTION - GRADING, DRAINAGE AND RETAINING WALLS GENERAL - LEGEND, ABBREVIATIONS, AND GENERAL NOTES
CV-G0102	CCNM DESIGN OPTION - GRADING, DRAINAGE AND RETAINING WALLS GENERAL - KEY MAP - SHEET 1 OF 1
CV-G1401	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18482+70, 18487+63 - OFFSITE CULVERT PROFILE
CV-G1402	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18493+35 - OFFSITE CULVERT PROFILE
CV-G1403	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18497+86, 18500+69 - OFFSITE CULVERT PROFILE
CV-G1404	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18504+01, 18513+70 - OFFSITE CULVERT PROFILE
CV-G1405	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18561+59, 18658+50 - OFFSITE CULVERT PROFILE
CV-G1406	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18670+42, 18703+22 - OFFSITE CULVERT PROFILE
CV-G1407	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18714+89, 18752+96 - OFFSITE CULVERT PROFILE
CV-G1408	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18760+49, 18765+43 - OFFSITE CULVERT PROFILE
CV-G1409	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18769+58, 18771+12 - OFFSITE CULVERT PROFILE
CV-G1410	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18778+37, 18780+95 - OFFSITE CULVERT PROFILE
CV-G1411	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18805+46, 18808+99 - OFFSITE CULVERT PROFILE
CV-G4601	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18458+80 TO 18485+00 - PLAN
CV-G4602	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18485+00 TO 18510+00 - PLAN
CV-G4603	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18510+00 TO 18535+00 - PLAN
CV-G4604	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18535+00 TO 18560+00 - PLAN
CV-G4605	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18560+00 TO 18585+00 - PLAN
CV-G4606	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18585+00 TO 18610+00 - PLAN
CV-G4607	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18610+00 TO 18635+00 - PLAN
CV-G4608	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18635+00 TO 18660+00 - PLAN
CV-G4609	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18660+00 TO 18685+00 - PLAN
CV-G4610	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18685+00 TO 18710+00 - PLAN
CV-G4611	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18710+00 TO 18735+00 - PLAN
CV-G4612	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18735+00 TO 18760+00 - PLAN
CV-G4613	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18760+00 TO 18785+00 - PLAN
CV-G4614	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18785+00 TO 18810+00 - PLAN
CV-G4615	CCNM DESIGN OPTION - GRADING AND DRAINAGE - STA 18810+00 TO 18822+99 - PLAN
CV-G4616	CCNM DESIGN OPTION - GRADING AND DRAINAGE - ACCESS ROAD STA 18519+00 - PLAN
CV-G4617	CCNM DESIGN OPTION - GRADING AND DRAINAGE - ACCESS ROAD STA 18560+00 - PLAN
CV-G4618	CCNM DESIGN OPTION - GRADING AND DRAINAGE - ACCESS ROAD STA 18519+00 - PLAN
ST-G1101	CCNM DESIGN OPTION - RETAINING WALL - 18473 - PLAN AND PROFILE
ST-G1102	CCNM DESIGN OPTION - RETAINING WALL - 18474 - PLAN AND PROFILE
ST-G1103	CCNM DESIGN OPTION - RETAINING WALL - 18769 (STATE ROUTE 58) - PLAN AND PROFILE
ST-G1104	CCNM DESIGN OPTION - RETAINING WALL - 18781 AND 18783 (STATE ROUTE 58) - PLAN AND PROFILE
ST-G1105	CCNM DESIGN OPTION - RETAINING WALL - 18789 AND 18790 (STATE ROUTE 58) - PLAN AND PROFILE
ST-G1106	CCNM DESIGN OPTION - RETAINING WALL - 18792 (STATE ROUTE 58) - PLAN AND PROFILE
ST-G1107	CCNM DESIGN OPTION - RETAINING WALL - STATE ROUTE 58 - PLAN AND PROFILE

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IN CHARGE G. CAMPBELL
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**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.

**VOLUME 3
TRACK AND ROADWAY STRUCTURES**

DRAWING No.	DRAWING DESCRIPTION
ST-J0001	CCNM DESIGN OPTION - TRACK AND ROADWAY STRUCTURES - GENERAL NOTES AND LEGEND
ST-J0002	CCNM DESIGN OPTION - TRACK AND ROADWAY STRUCTURES - KEY MAP
ST-J0003	CCNM DESIGN OPTION - GENERAL - TYPICAL SECTIONS - SHEET 1 OF 3
ST-J0004	CCNM DESIGN OPTION - GENERAL - TYPICAL SECTIONS - SHEET 2 OF 3
ST-J0005	CCNM DESIGN OPTION - GENERAL - TYPICAL SECTIONS - SHEET 3 OF 3
ST-J1201	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18463+56 TO 18475+16 - PLAN AND ELEVATION
ST-J1202	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18463+56 TO 18475+16 - PLAN AND ELEVATION
ST-J1203	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18564+23 TO 18585+67 - PLAN AND ELEVATION
ST-J1204	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18564+23 TO 18585+67 - PLAN AND ELEVATION
ST-J1205	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18564+23 TO 18585+67 - PLAN AND ELEVATION
ST-J1206	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18718+57 TO 18747+94 - PLAN AND ELEVATION
ST-J1207	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18718+57 TO 18747+94 - PLAN AND ELEVATION
ST-J1208	CCNM DESIGN OPTION - TRACK STRUCTURES - VIADUCT STATION 18718+57 TO 18747+94 - PLAN AND ELEVATION
ST-K1101	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 EB OVERHEAD - PLAN AND ELEVATION
ST-K1102	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 EB OVERHEAD - PLAN AND ELEVATION
ST-K1103	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 EB OVERHEAD - TYPICAL SECTION
ST-K1104	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 WB OVERHEAD - PLAN AND ELEVATION
ST-K1105	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 WB OVERHEAD - PLAN AND ELEVATION
ST-K1106	CCNM DESIGN OPTION - ROADWAY STRUCTURES - SR 58 WB OVERHEAD - TYPICAL SECTION

TRACTION POWER

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

AUTOMATIC TRAIN CONTROL

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

TUNNEL

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

**VOLUME 4
UTILITIES**

DRAWING No.	DRAWING DESCRIPTION
UT-B0001	CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - ABBREVIATIONS AND LEGEND
UT-B0002	CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - GENERAL NOTES AND UTILITY OWNERS
UT-B0003	CCNM DESIGN OPTION - COMPOSITE UTILITY GENERAL - KEY MAP - SHEET 1 OF 1
UT-C4601	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18458+80 TO 18485+00 - PLAN
UT-C4602	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18485+00 TO 18510+00 - PLAN
UT-C4603	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18510+00 TO 18535+00 - PLAN
UT-C4604	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18535+00 TO 18560+00 - PLAN
UT-C4605	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18560+00 TO 18585+00 - PLAN
UT-C4606	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18585+00 TO 18610+00 - PLAN
UT-C4607	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18610+00 TO 18635+00 - PLAN
UT-C4608	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18635+00 TO 18660+00 - PLAN
UT-C4609	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18660+00 TO 18685+00 - PLAN
UT-C4610	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18685+00 TO 18710+00 - PLAN
UT-C4611	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18710+00 TO 18735+00 - PLAN
UT-C4612	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18735+00 TO 18760+00 - PLAN
UT-C4613	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18760+00 TO 18785+00 - PLAN
UT-C4614	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18785+00 TO 18810+00 - PLAN
UT-C4615	CCNM DESIGN OPTION - COMPOSITE UTILITY PLAN - STA 18810+00 TO 18822+99 - PLAN

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TYLIN\jmeredith

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DRAWN BY A. RIVERA
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IN CHARGE G. CAMPBELL
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CONSTRUCTION**



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

CCNM DESIGN OPTION
GENERAL
INDEX OF DRAWING
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CONTRACT NO. HSR13-44
DRAWING NO. GE-B0003
SCALE NO SCALE
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OJC:ARivera

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 BENCHMARK
 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

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,C-I-P 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
 CT COURT
 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
 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
 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 & 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 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
 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
 HOR, 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
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**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.

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
 KV KILOVOLT

L

L LENGTH
 LAT LATITUDE
 LCB LEAN CONCRETE BASE
 LGA LOCALLY GENERATED ALTERNATIVE
 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
 MSS MOVING SCAFFOLDING SYSTEM
 MTL MATERIAL
 MVP MAINTENANCE VEHICLE PULLOUT

N

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

O

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

P

P PAGE
 PAP PERFORATED ALUMINUM PIPE
 PB PULL BOX, 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
 PL,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

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
 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
 S STATION LINE
 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
 SSRP STEEL SPIRAL RIB PIPE
 SR STATE ROUTE
 ST STREET, SPIRAL TO TANGENT
 STA STATION
 STBB SINGLE THRIE BEAM BARRIER
 STD STANDARD
 STR STRUCTURE
 SRS STAND ALONE RADIO SITE
 SURF SURFACING
 SW SIDEWALK, SOUND WALL
 SWR SEWER
 SWS SWITCHING STATION
 SYM SYMMETRICAL
 S4S SURFACE 4 SIDES
 SJVR SAN JOAQUIN VALLEY RAILROAD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
S. LANDOLT
 DRAWN BY
J. MEREDITH
 CHECKED BY
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

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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.

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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
 TOT TOTAL
 TP TRACTION POWER, TUNNEL PORTAL
 TPB TREATED PERMEABLE BASE
 TPF TRACTION POWER FACILITY
 TPM TREATED PERMEABLE MATERIAL
 TRANS TRANSITION, TRANSVERSE
 TS TRAFFIC SIGNAL, TUBULAR STEEL,
 TANGENT TO SPIRAL
 TOR TOP OF RAIL
 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
 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
 DRAWN BY
J. MEREDITH
 CHECKED BY
S. LANDOLT
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

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

CCNM DESIGN OPTION
 GENERAL
 ABBREVIATIONS
 SHEET 3 OF 3

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

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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. DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS. UTILITY RELOCATIONS ARE NOT SHOWN.
2. TRAFFIC DETOURS ARE NOT SHOWN IN THIS SET OF PLANS.
3. LAYDOWN AREAS, STAGING AREAS AND OTHER CONTRACTOR'S FACILITIES ARE INCLUDED IN THIS SET OF PLANS.
4. DETAILED PHASING OF LONG CHSR VIADUCTS ARE NOT SHOWN.
5. LMF (LIGHT MAINTENANCE FACILITY), MOIF (MAINTENANCE OF INFRASTRUCTURE FACILITY), MOIS (MAINTENANCE OF INFRASTRUCTURE SIDING), TPF (TRACTION POWER FACILITY), TPS (TRACTION POWER SUBSTATION) ARE SHOWN, BUT NOT INCLUDED IN THE SEQUENCING.
6. CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION DURATIONS.
7. 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
MOIF	MAINTENANCE OF INFRASTRUCTURE FACILITY
OH	OVERHEAD
RS-WA	RAIL STORAGE & WELDING AREA
SEM	SEQUENTIAL EXCAVATION METHOD
STA	STATION
TPF	TRACTION POWER FACILITY
TPS	TRACTION POWER SUBSTATION
TBM	TUNNEL BORING MACHINE
UP/UC	UNDERPASS / UNDERCROSSING
UPRR	UNION PACIFIC RAILROAD

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TURRELL
 DRAWN BY
A. RIVERA
 CHECKED BY
G. CAMPBELL
 IN CHARGE
S. SMITH
 DATE
11/19/2018

DRAFT
PEPD SUBMITTAL

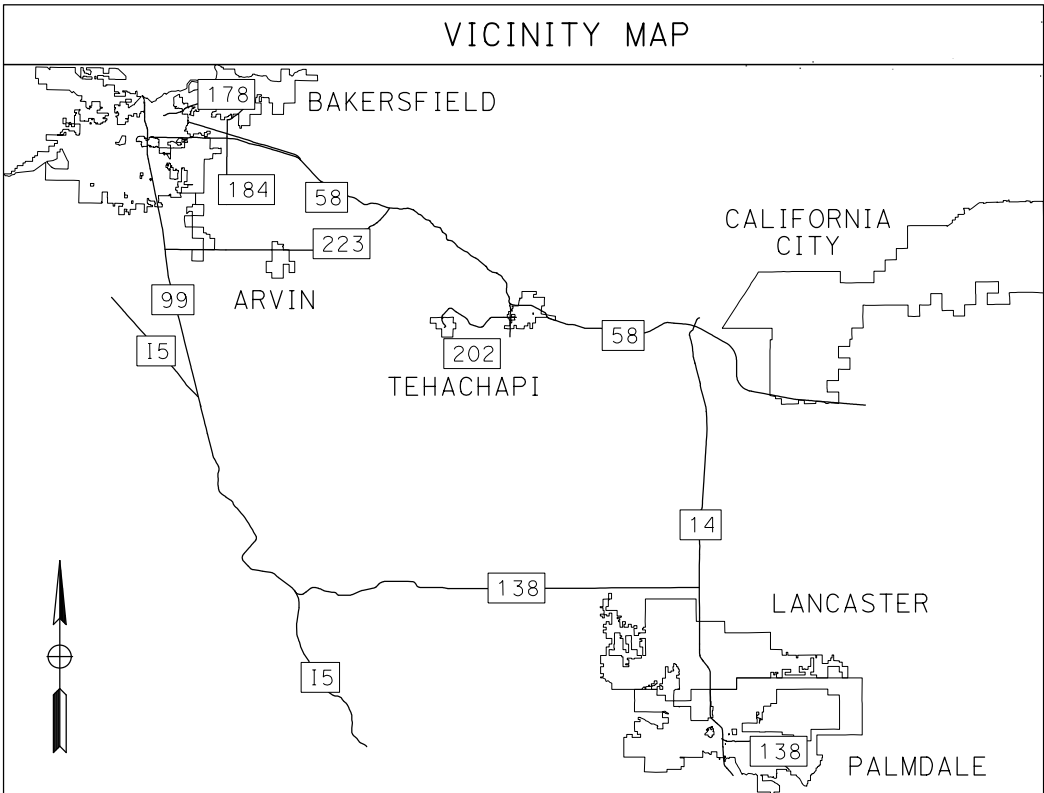
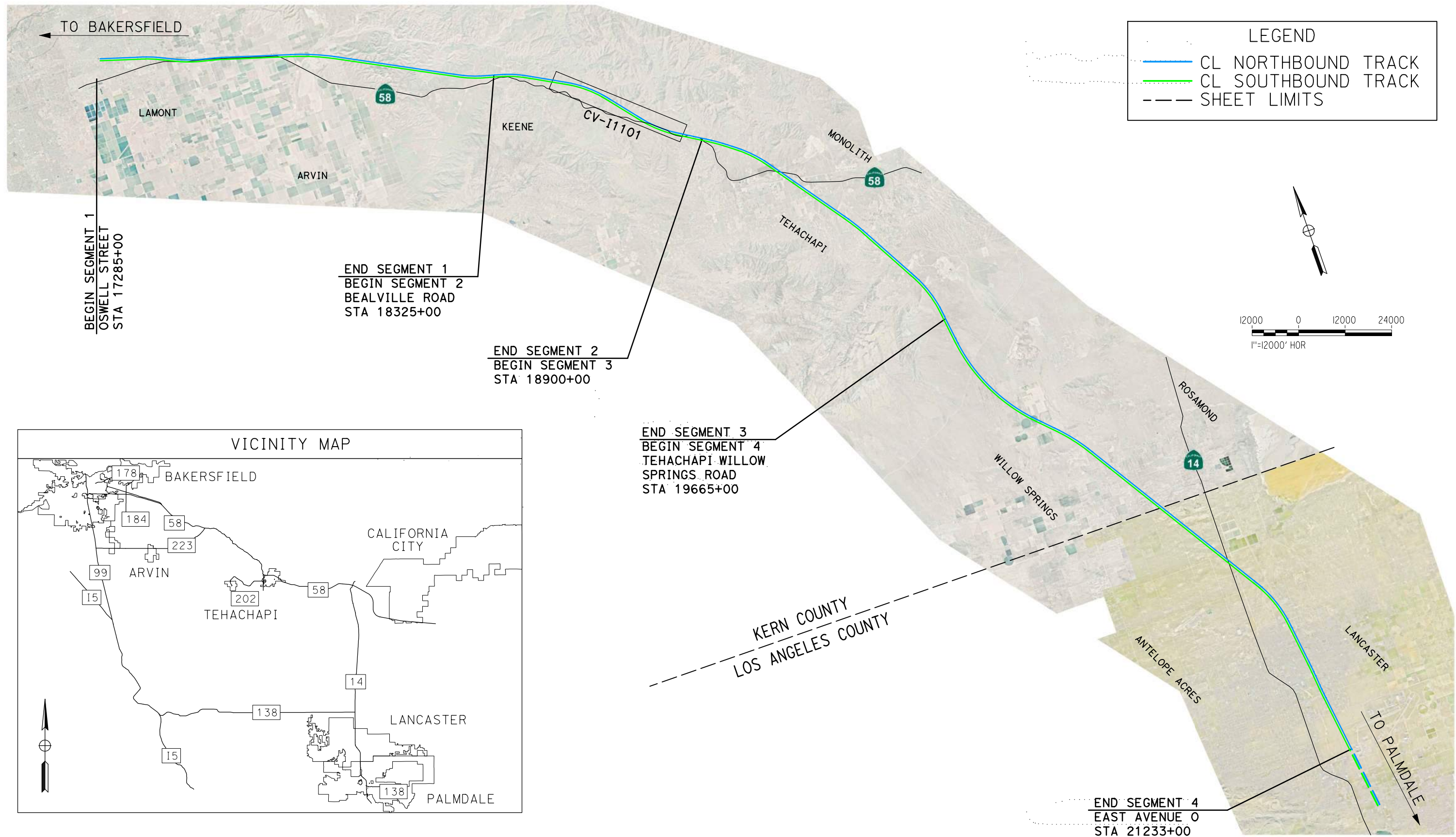
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 CCNM DESIGN OPTION
 CONSTRUCTION SEQUENCING GENERAL
 NOTES & LEGEND

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

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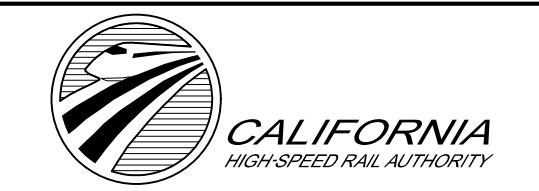


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
J. TURRELL
 DRAWN BY
A. RIVERA
 CHECKED BY
G. CAMPBELL
 IN CHARGE
S. SMITH
 DATE
11/19/2018

DRAFT
PEPD SUBMITTAL

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

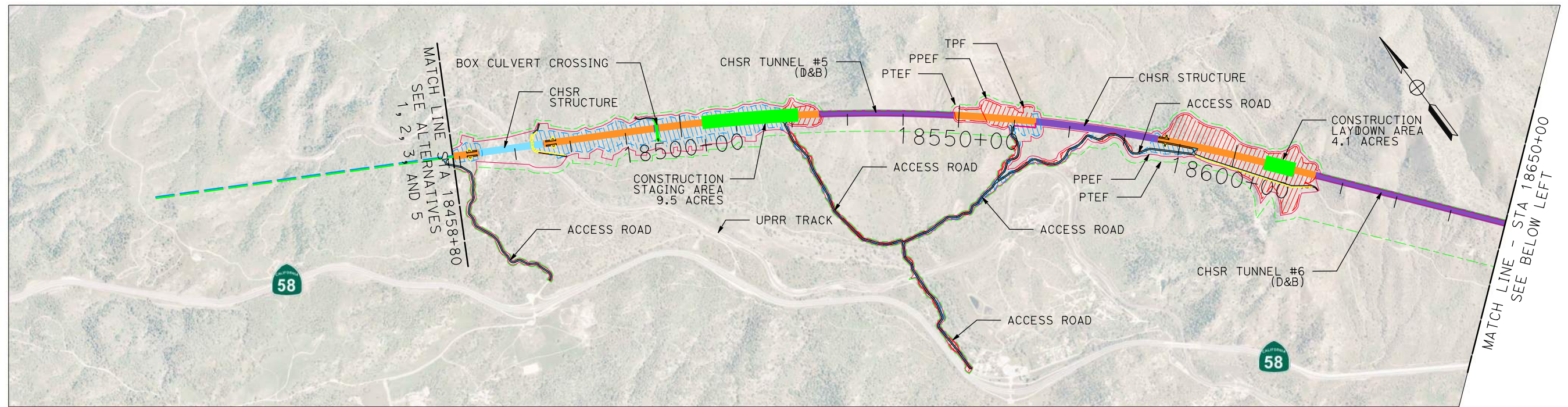
CONTRACT NO.
 HSR13-44
 DRAWING NO.
 CV-10002
 SCALE
 AS SHOWN
 SHEET NO.

SEGMENT 2

PHASE 1
"ALL PHASING AT CONTRACTOR'S DISCRETION"

PHASE 2

PHASE 3

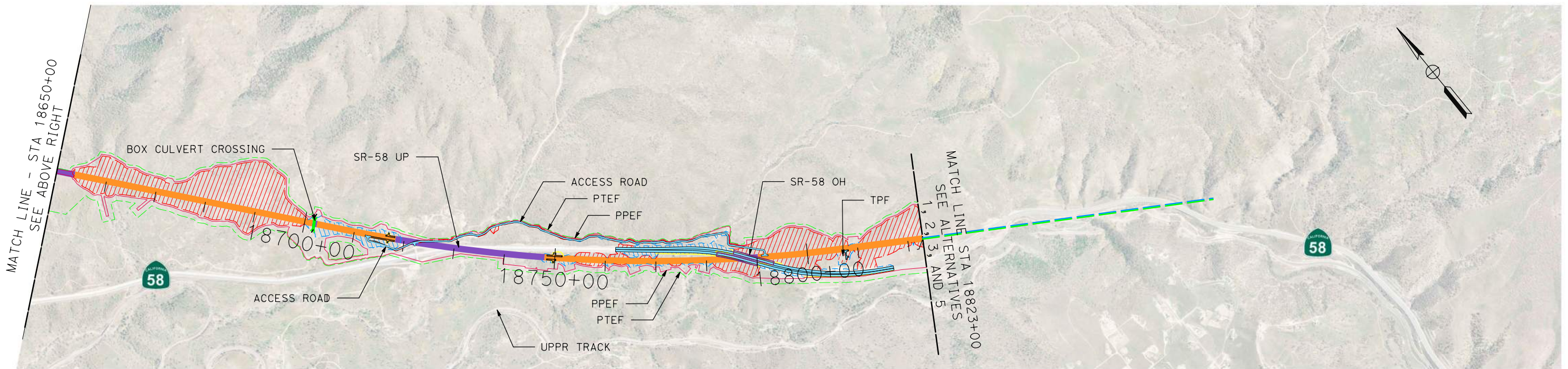


SEGMENT 2

PHASE 1
"ALL PHASING AT CONTRACTOR'S DISCRETION"

PHASE 2

PHASE 3



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J. TURRELL
DRAWN BY
A. RIVERA
CHECKED BY
G. CAMPBELL
IN CHARGE
S. SMITH
DATE
11/19/2018

DRAFT
PEPD SUBMITTAL


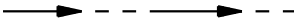
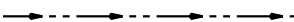



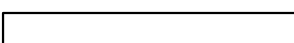





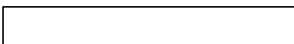
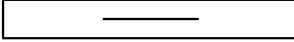


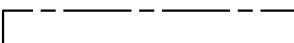
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
CCNM DESIGN OPTION
CONSTRUCTION SEQUENCING
SHEET 1 OF 1

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

LEGEND

	NORTH ARROW
	OFFSITE DRAINAGE DITCH
	ONSITE DRAINAGE DITCH
	COMBINED DRAINAGE DITCH
	EXISTING STORM DRAIN
	PROPOSED STORM DRAIN
	PROPOSED DRAINAGE BASIN
	DRAINAGE INLETS/OUTLETS
	RETAINING WALL
	CUT GRADING LIMIT
	FILL GRADING LIMIT
	TUNNEL
	VIADUCT
	WILDLIFE CROSSING
	ACCESS ROAD CROSSING PANEL
C	CUT
F	FILL
	REMOVAL OR ABANDONMENT
	100-YEAR FLOODPLAIN BOUNDARY

ABBREVIATIONS

APC	ALTERNATIVE PIPE CULVERT
CIP, C-I-P	CAST-IN-PLACE, CAST IRON PIPE
CIPCP	CAST-IN-PLACE CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
FES	FLARED END SECTION
FG	FINISHED GRADE
FL	FLOW LINE
HSR NB ☉	HIGH SPEED RAIL NORTH BOUND CENTERLINE
HSR SB ☉	HIGH SPEED RAIL SOUTH BOUND CENTERLINE
HW	HEADWALL
LID BMP	LOW IMPACT DEVELOPMENT BEST MANAGEMENT PRACTICE
MH	MANHOLE
MOIF	MAINTENANCE OF INFRASTRUCTURE FACILITY
MOIS	MAINTENANCE OF INFRASTRUCTURE SIDING
PPEF	PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
PTEF	PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT
OG	ORIGINAL GRADE
OSD	ONSITE STORMWATER DETENTION
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RW	RETAINING WALL
RSP	ROCK SLOPE PROTECTION
S	SLOPE
SD	STORM DRAIN
STA	STATION
LMF	LIGHT MAINTENANCE FACILITY

GENERAL NOTES

NOTES

- CULVERT STATION DESIGNATION IDENTIFIED AS HSR SB CONTROL LINE STATION AT CULVERT INTERSECTION.
- ONSITE BASIN LOCATIONS ARE SCHEMATIC. GRADING TO BE COMPLETED DURING FINAL ENGINEERING.
- PROPOSED FINISHED GRADING IS NOT REFLECTED NEAR TUNNELS, BRIDGE CONES, AND SOME MAINTENANCE FACILITIES/ROADS. GRADED PADS WILL BE PROVIDED DURING FINAL ENGINEERING.
- SLOPE FILL WILL BE USED, AS NEEDED, TO ALLOW FOR POSITIVE ONSITE DITCH DRAINAGE ABOVE THE OFFSITE PROPOSED DRAINAGE CULVERTS. THESE LOCATIONS ARE LABELED "ONSITE DITCH IN FILL."
- SUBSTANTIAL NATURAL WATERCOURSES THAT HAVE BEEN ENCLOSED INTO BY ACCESS ROAD OR TRACK FILL MAY NEED TO BE REALIGNED. THE LATTER ARE LABELED "WATERCOURSE IMPROVEMENTS REQUIRED." THESE LOCATIONS WILL BE FINALIZED DURING FINAL ENGINEERING.
- TRACTION POWER FACILITY GRADING TO BE PROVIDED DURING FINAL ENGINEERING.
- ACCESS ROAD DITCH IMPROVEMENTS TO BE DURING FINAL ENGINEERING.

PROFILE NOTES

- PROFILE CUT ALONG CULVERT ALIGNMENT.
- CULVERT PROFILES, IN SOME CASES, DO NOT REFLECT THE PROPOSED GRADING NEAR A TUNNEL, BRIDGE, AND SOME ACCESS ROADS. PLAN GRADING AND PROFILE TO BE COMPLETED DURING FINAL ENGINEERING.
- CULVERT PROFILES REFLECT PRELIMINARY ONSITE BASIN, DITCH AND/OR LID BMP GRADING TO BE COMPLETED DURING FINAL ENGINEERING.
- WALLS REQUIRED AT THE UPSTREAM ENDS OF CULVERTS TO PREVENT OFFSITE DRAINAGE FROM ENTERING A CUT SECTION OR OVERTOPPING A LOW FILL SECTION. ARE NOTED AS WALL. WALL DESIGN TO BE COMPLETED DURING FINAL ENGINEERING.

STORMWATER NOTES

- TRACK AND ACCESS ROAD LID BMP DESIGNS SHALL 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 LID BMP. SUPERELEVATE ACCESS ROAD, AS NEEDED TO DIRECT STORMWATER TO LID BMP. BMP DESIGNS TO BE ADDRESSED DURING FINAL ENGINEERING.
- THE ONSITE DITCHES WITHIN TRACK CUT SLOPE SEGMENTS ARE LABELED WITH THE FOLLOWING GLOBAL CALL OUT - "LID BMP."

ROADWAY UNDERCROSSING PUMP STATION NOTES

- ROADWAY UNDERCROSSING PUMP STATION LOCATIONS ARE SCHEMATIC. DESIGNS TO BE COMPLETED DURING FINAL ENGINEERING.
- ROADWAY UNDERCROSSING LID BMP MAY BE USED TO TREAT STORMWATER PRIOR TO DISCHARGING INTO WET-WELL. DESIGNED TO BE COMPLETED DURING FINAL ENGINEERING.

UTILITY NOTES

- IT IS ASSUMED THAT ALL EXISTING DRAINAGE UTILITIES THAT ARE LOCATED WITHIN THE HSR TRACK FOOTPRINT WILL BE REMOVED AND ALL EXISTING DRAINAGE UTILITIES THAT ARE LOCATED WITHIN ROADWAY OR ACCESS ROAD FOOTPRINT WILL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED ON PLANS.
- THE OFFSITE DISPOSITION/RECONNECTION OF THE 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 THOSE EXISTING DRAINAGE FACILITIES THAT ARE LOCATED ALONGSIDE, BUT WITHIN THE PROJECT FOOTPRINT, WILL BE DETERMINED DURING FINAL ENGINEERING, OR AS NOTED ON THE GRADING PLANS.

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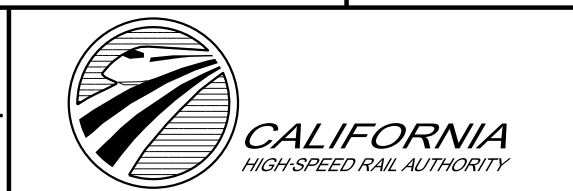
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY A. RIVERA
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 03/06/2019

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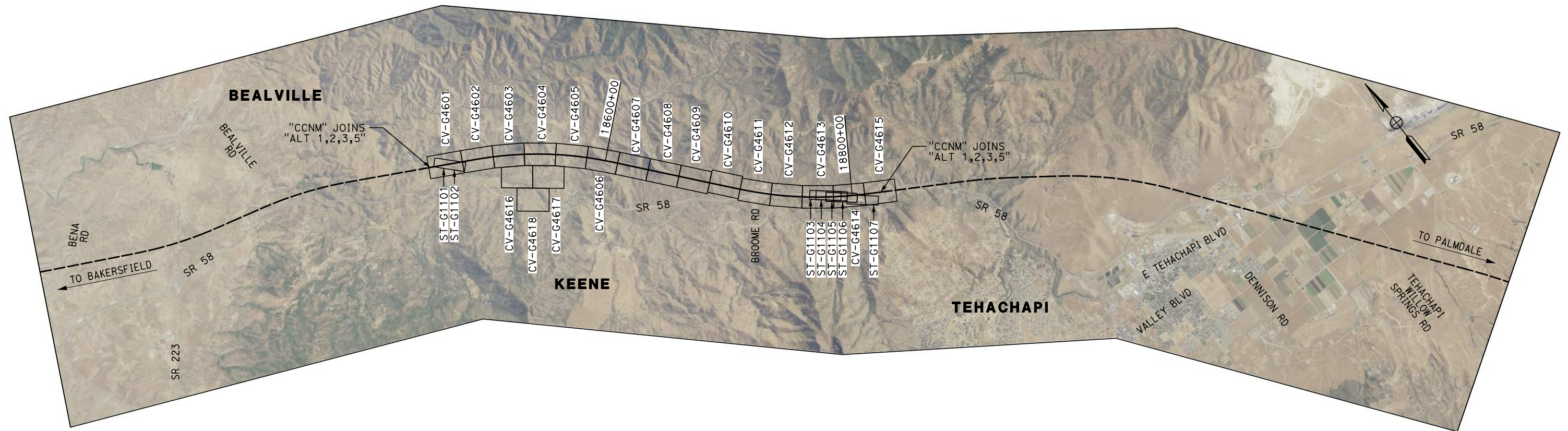
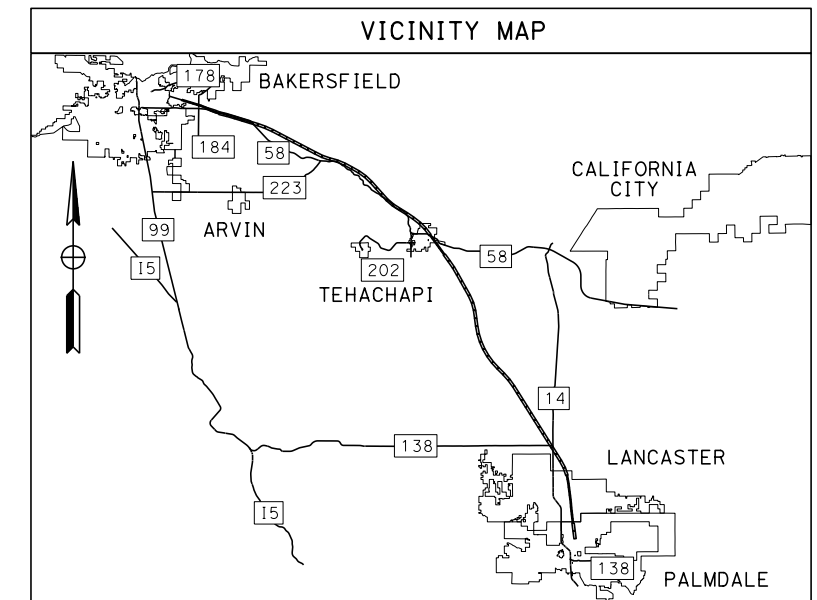
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION

GRADING, DRAINAGE AND RETAINING WALLS GENERAL
LEGEND, ABBREVIATIONS, AND GENERAL NOTES

CONTRACT NO. HSR13-44
DRAWING NO. CV-G0101
SCALE NO SCALE
SHEET NO.

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DESIGNED BY
G. YAMANAKA

DRAWN BY
A. RIVERA

CHECKED BY
G. CAMPBELL

IN CHARGE
G. CAMPBELL

DATE
03/06/2019

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 CCNM DESIGN OPTION
 GRADING, DRAINAGE AND RETAINING WALLS GENERAL
 KEY MAP
 SHEET 1 OF 1

CONTRACT NO.
HSR13-44

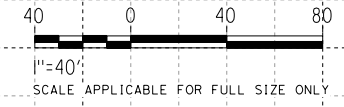
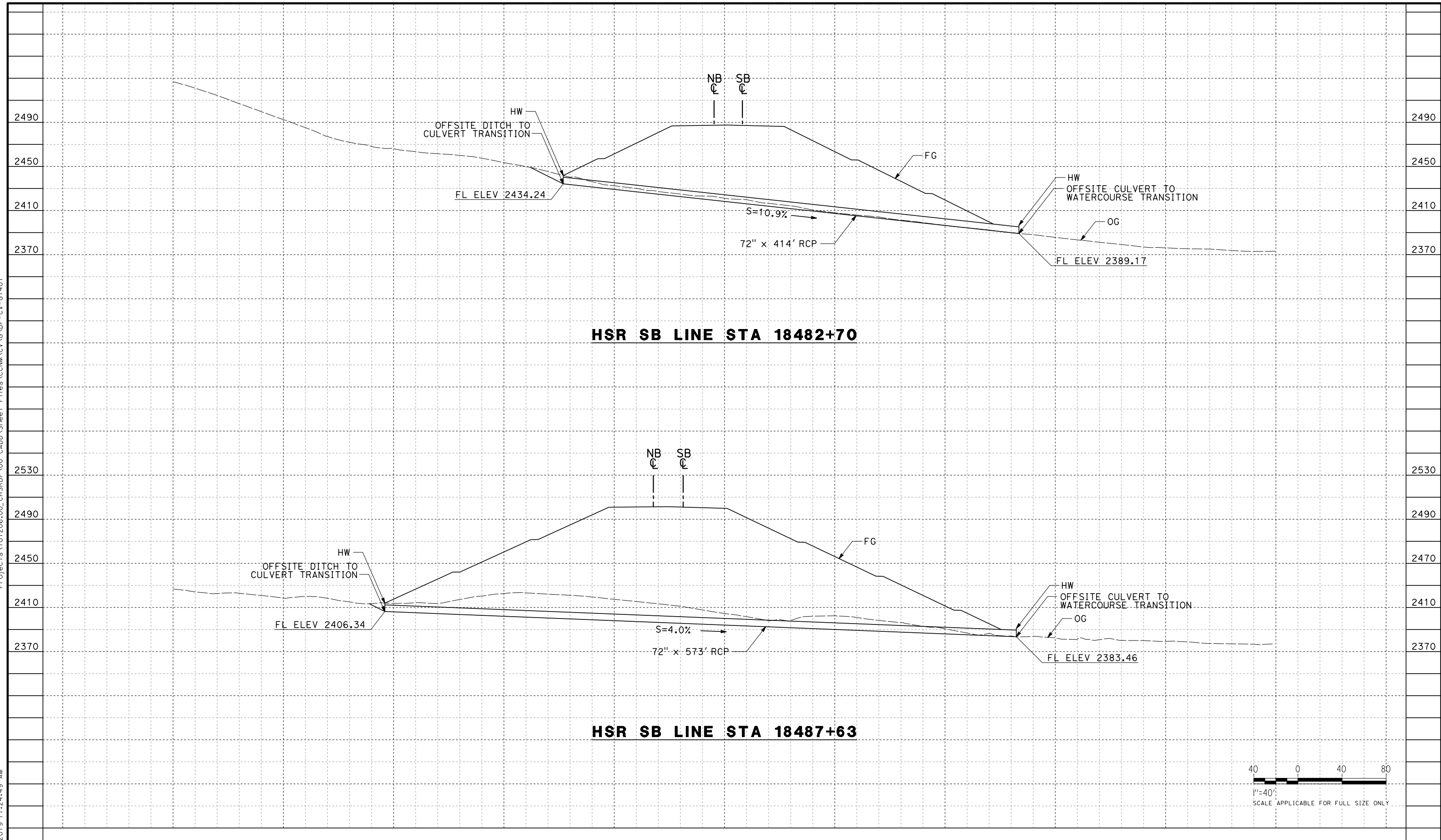
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G. YAMANAKA
DRAWN BY
G. YAMANAKA
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

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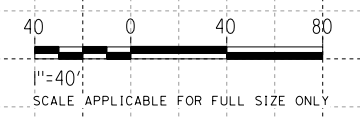
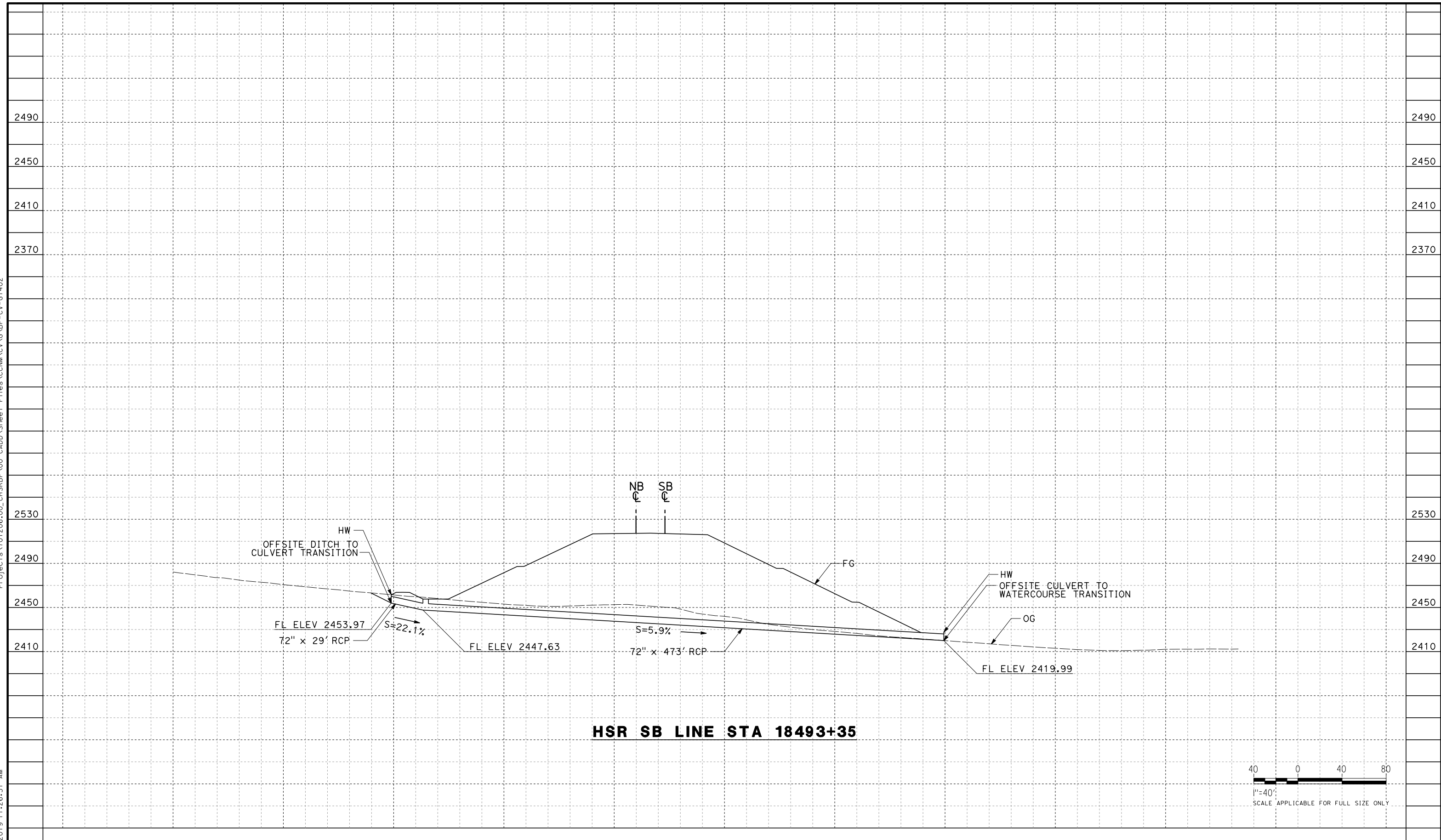
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

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

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G1401
SCALE
AS SHOWN
SHEET NO.

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G. YAMANAKA
DRAWN BY
G. YAMANAKA
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

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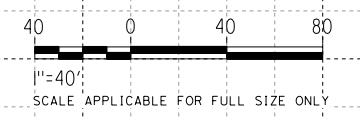
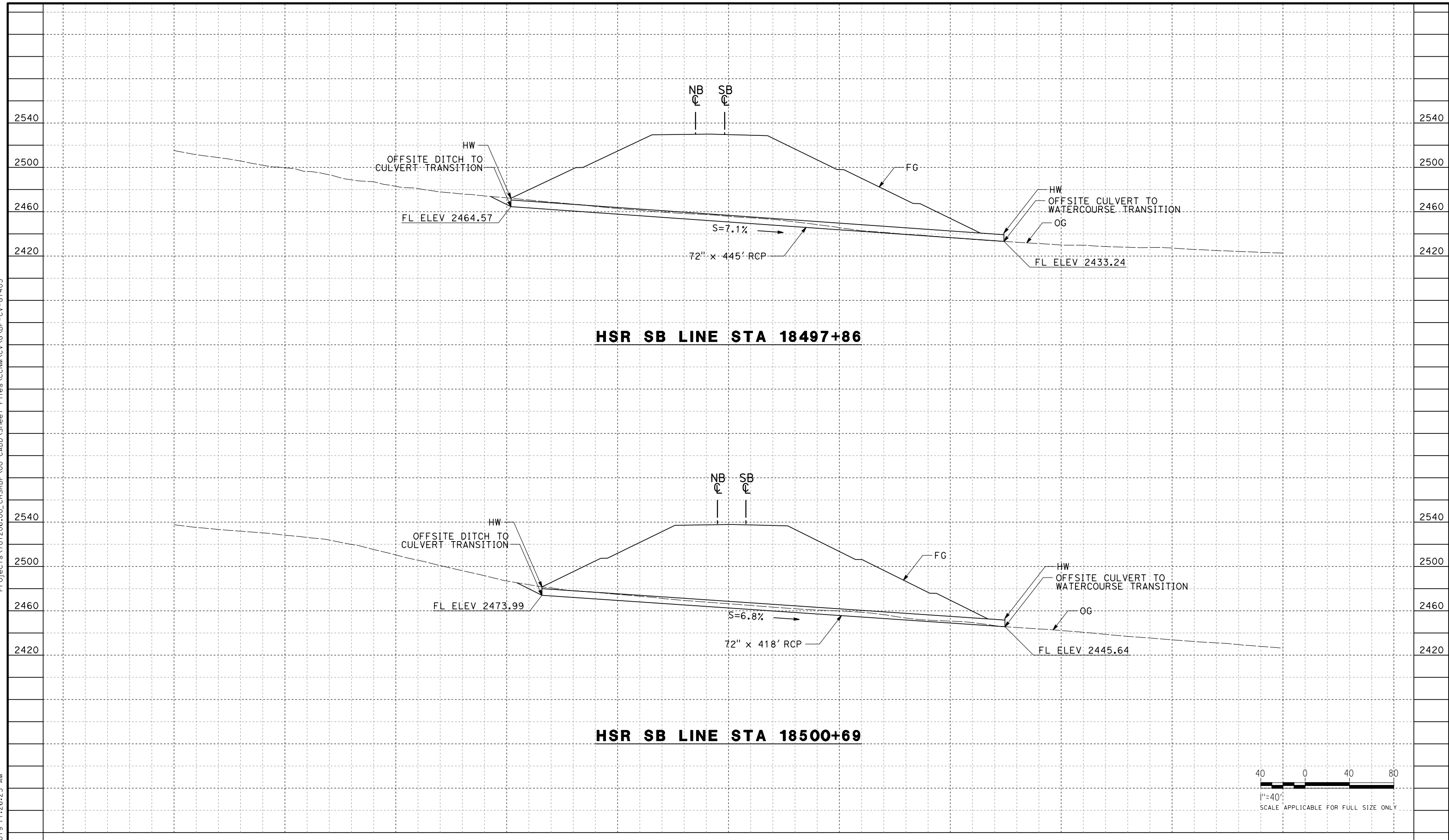


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

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

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G1402
SCALE
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SHEET NO.

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G. YAMANAKA
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G. YAMANAKA
 CHECKED BY
G. CAMPBELL
 IN CHARGE
G. CAMPBELL
 DATE
03/06/2019

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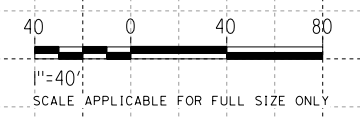
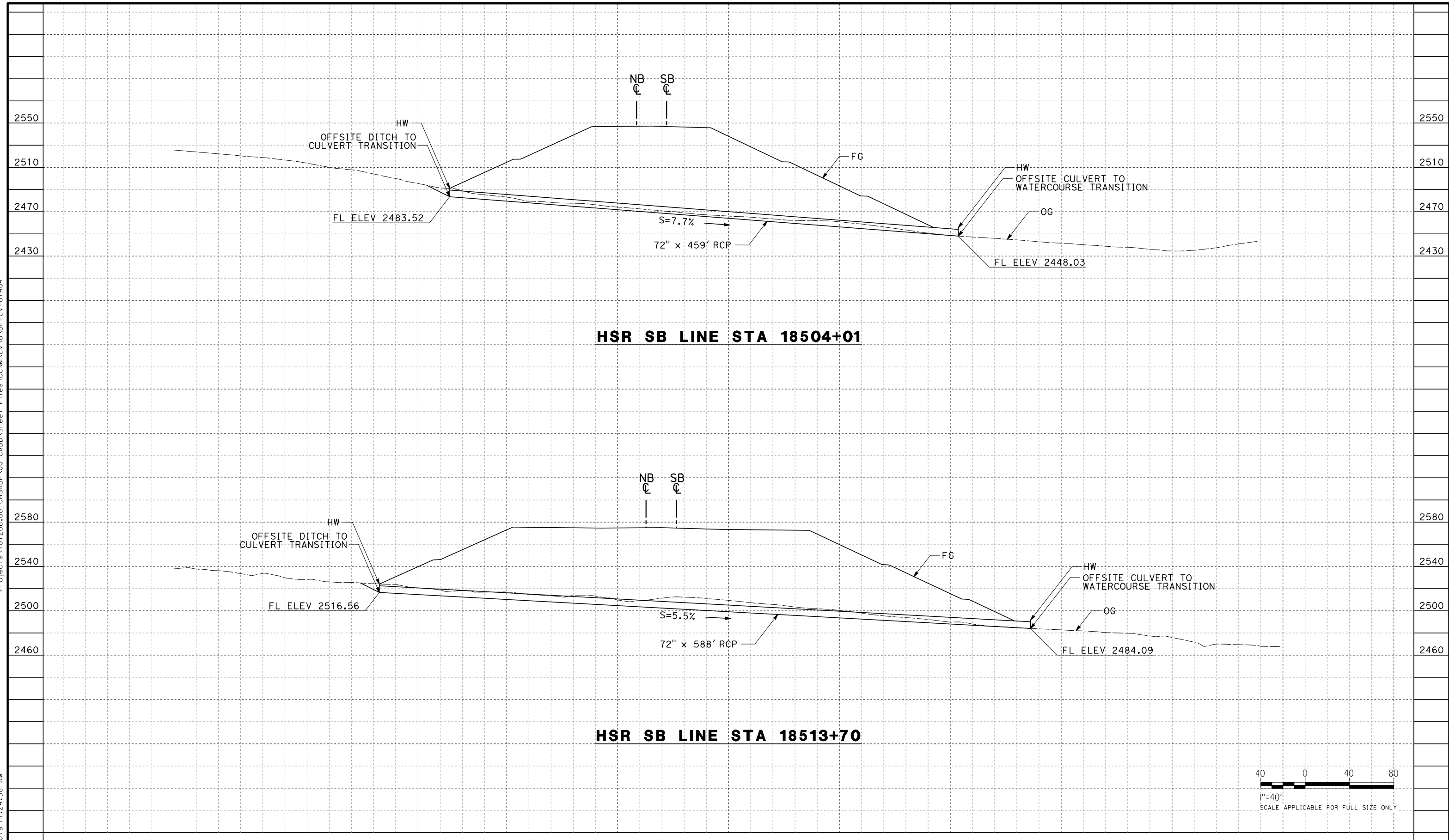
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 STA 18497+86, 18500+69
 OFFSITE CULVERT PROFILE

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

Projects\701206.00_CHSRBP\00_CADD\Sheet_Files\CCNM\CV\NBP-CV-G1404
 TYLI\G.Yamanaka\28/2019 11:24:58 AM



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G. YAMANAKA
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G. YAMANAKA
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G. CAMPBELL
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G. CAMPBELL
 DATE
03/06/2019

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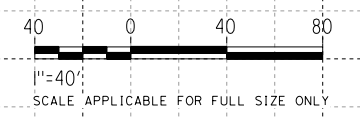
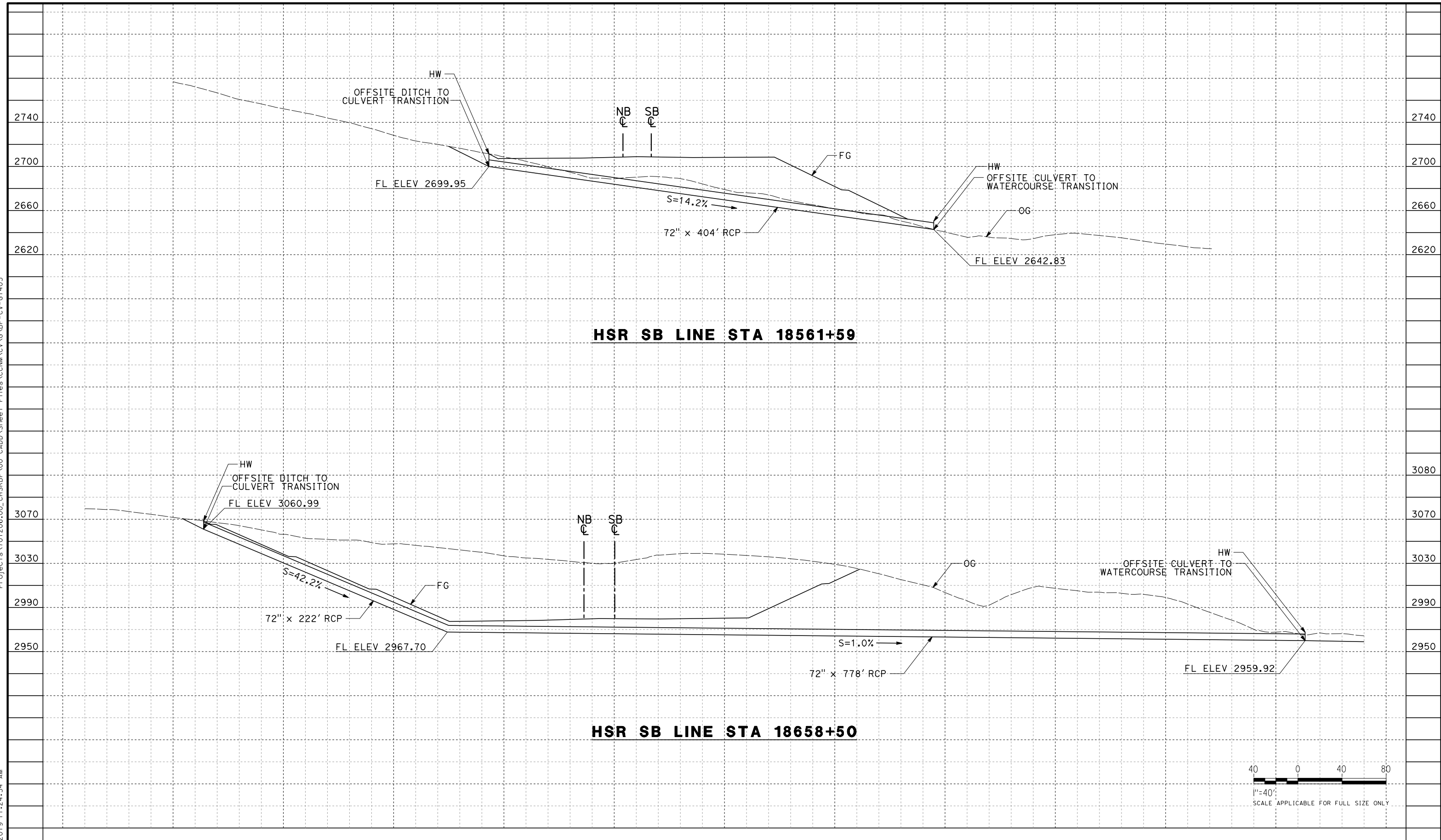
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 CCNM DESIGN OPTION
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 OFFSITE CULVERT PROFILE

CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-G1404
 SCALE
AS SHOWN
 SHEET NO.

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 TYLI\G.Yamanaka\28/2019 11:24:54 AM



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G. CAMPBELL
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G. CAMPBELL
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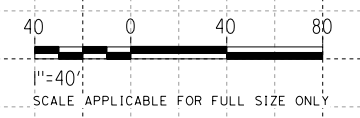
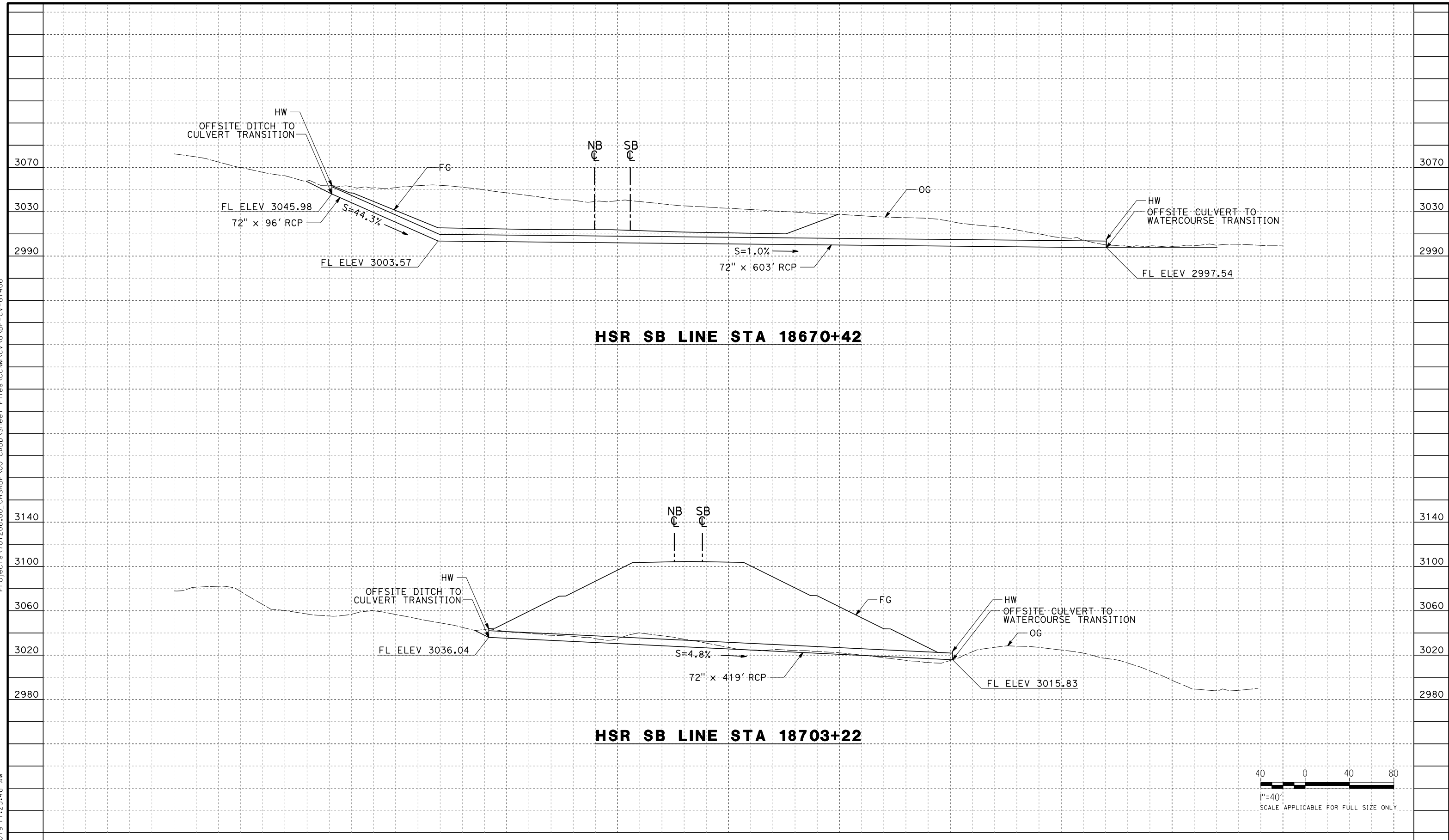
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 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 STA 18561+59, 18658+50
 OFFSITE CULVERT PROFILE

CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-G1405
 SCALE
AS SHOWN
 SHEET NO.

Projects\T01206.00_CHSRBP\00_CADD\Sheet Files\CCNM\CV\NBP-CV-G1406
 TYL\G.Yamanaka\28/2019 11:25:46 AM



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G. YAMANAKA
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G. CAMPBELL
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G. CAMPBELL
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03/06/2019

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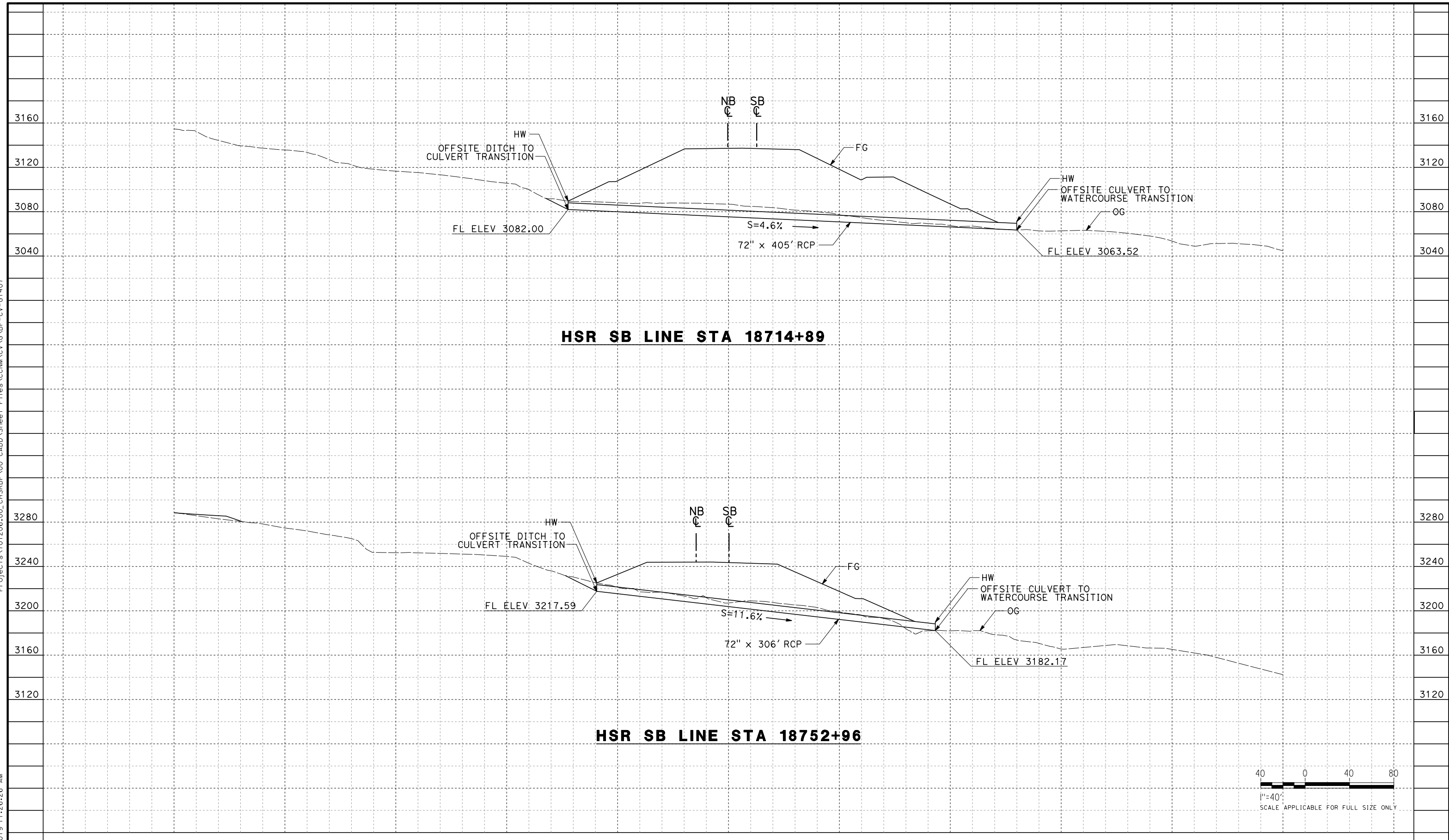
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 CCNM DESIGN OPTION
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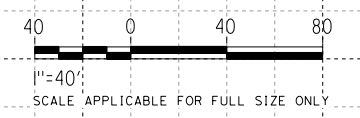
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HSR SB LINE STA 18714+89

HSR SB LINE STA 18752+96



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DESIGNED BY
G. YAMANAKA
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G. YAMANAKA
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G. CAMPBELL
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G. CAMPBELL
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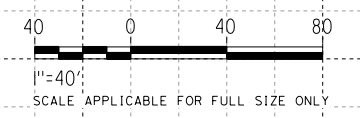
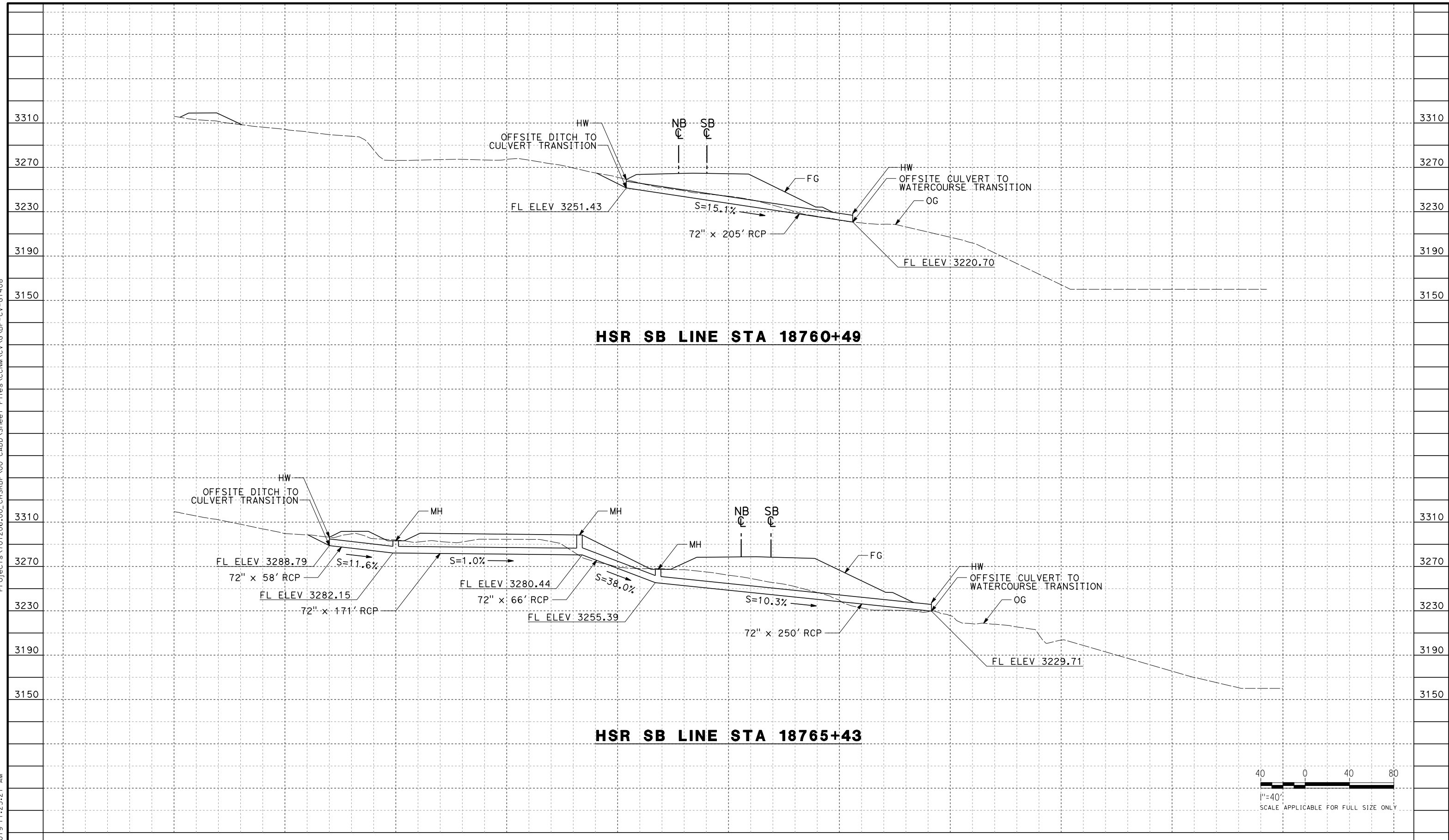
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 CCNM DESIGN OPTION
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 STA 18714+89, 18752+96
 OFFSITE CULVERT PROFILE

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

Projects\701206.00_CHSRBP\00_CADD\Sheet_Files\CCNM\CV\G\BP-CV-G1408
 TYLIN\G.Yamanaka\28/2019 11:25:21 AM



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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G. YAMANAKA
 CHECKED BY
G. CAMPBELL
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G. CAMPBELL
 DATE
03/06/2019

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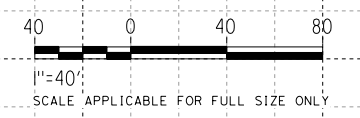
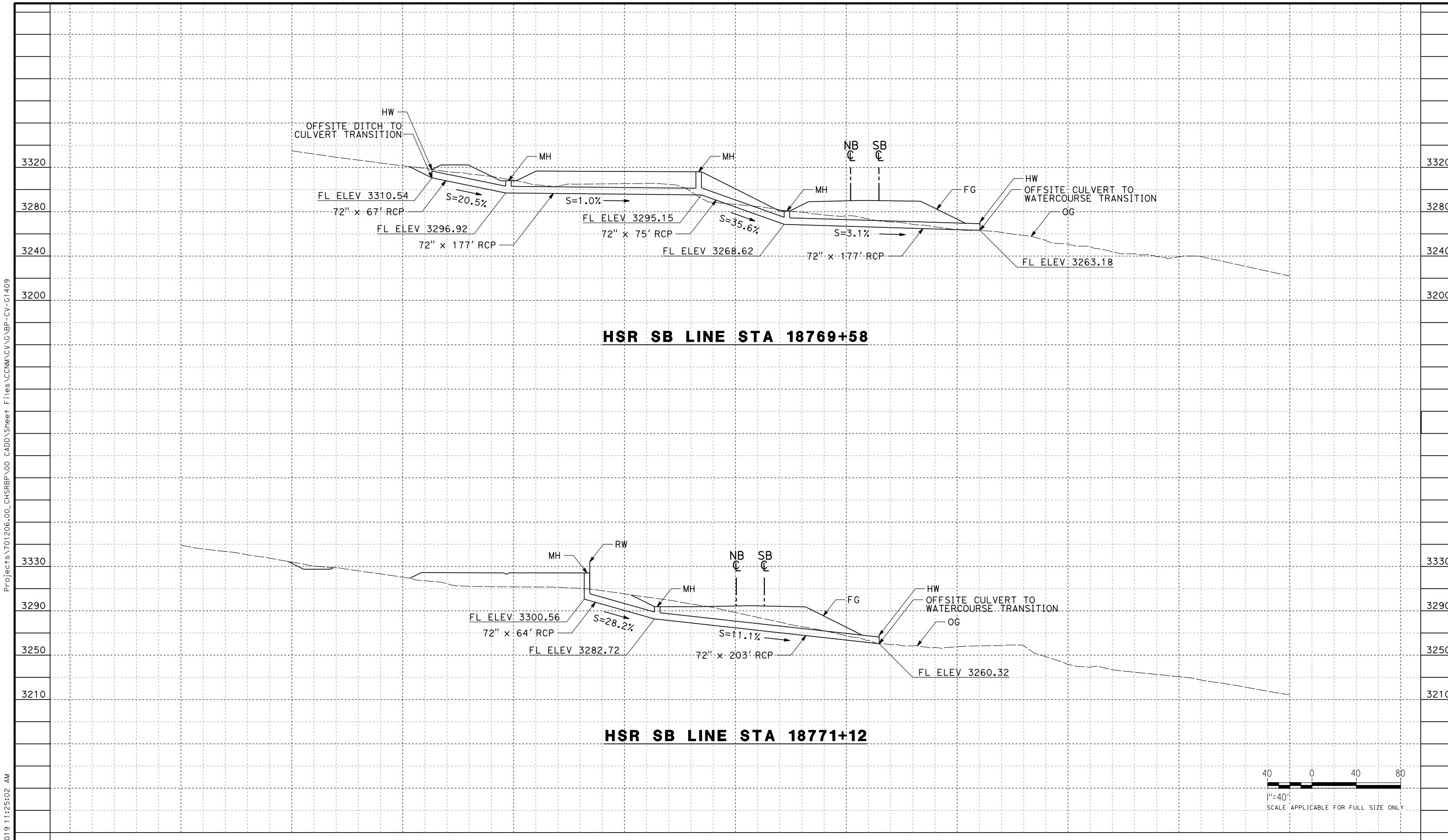
**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 STA 18760+49, 18765+43
 OFFSITE CULVERT PROFILE

CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-G1408
 SCALE
AS SHOWN
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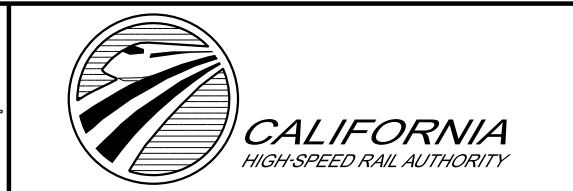


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DESIGNED BY
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G. CAMPBELL
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G. CAMPBELL
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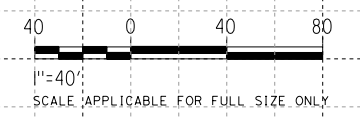
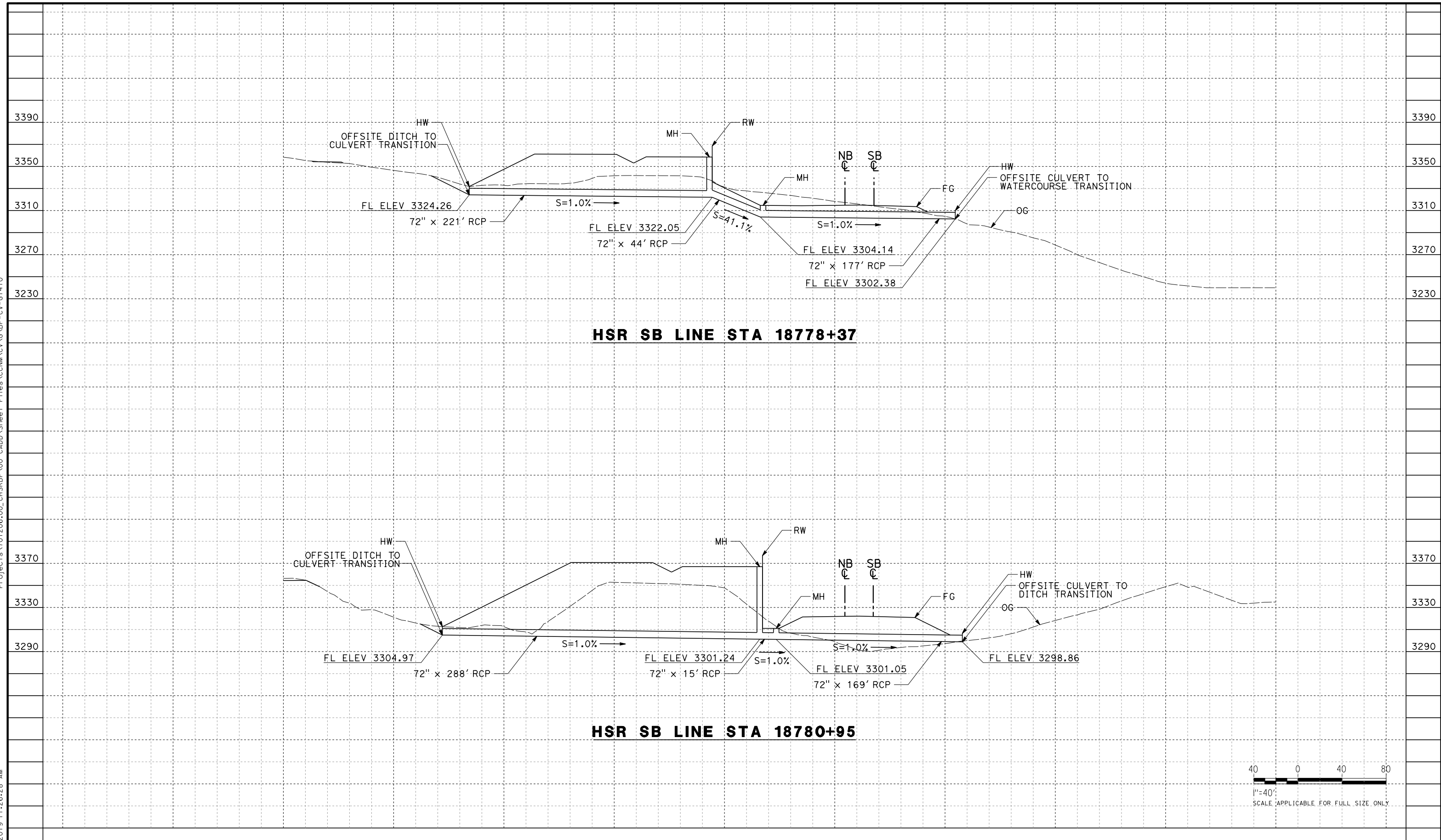
**NOT FOR
 CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 STA 18769+58, 18771+12
 OFFSITE CULVERT PROFILE

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

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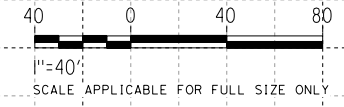
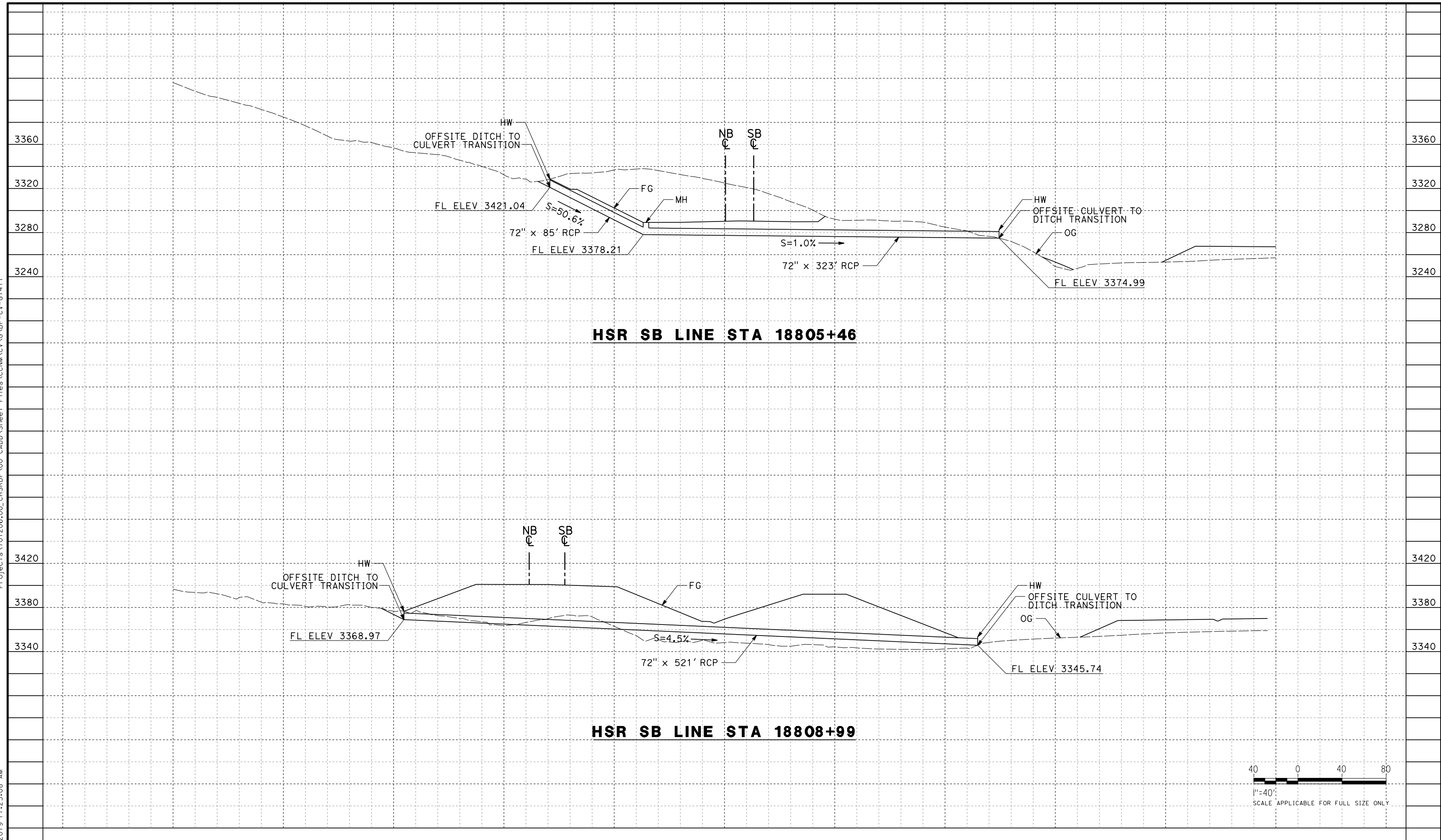
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
GRADING AND DRAINAGE
STA 18778+37, 18780+95
OFFSITE CULVERT PROFILE

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

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G. CAMPBELL
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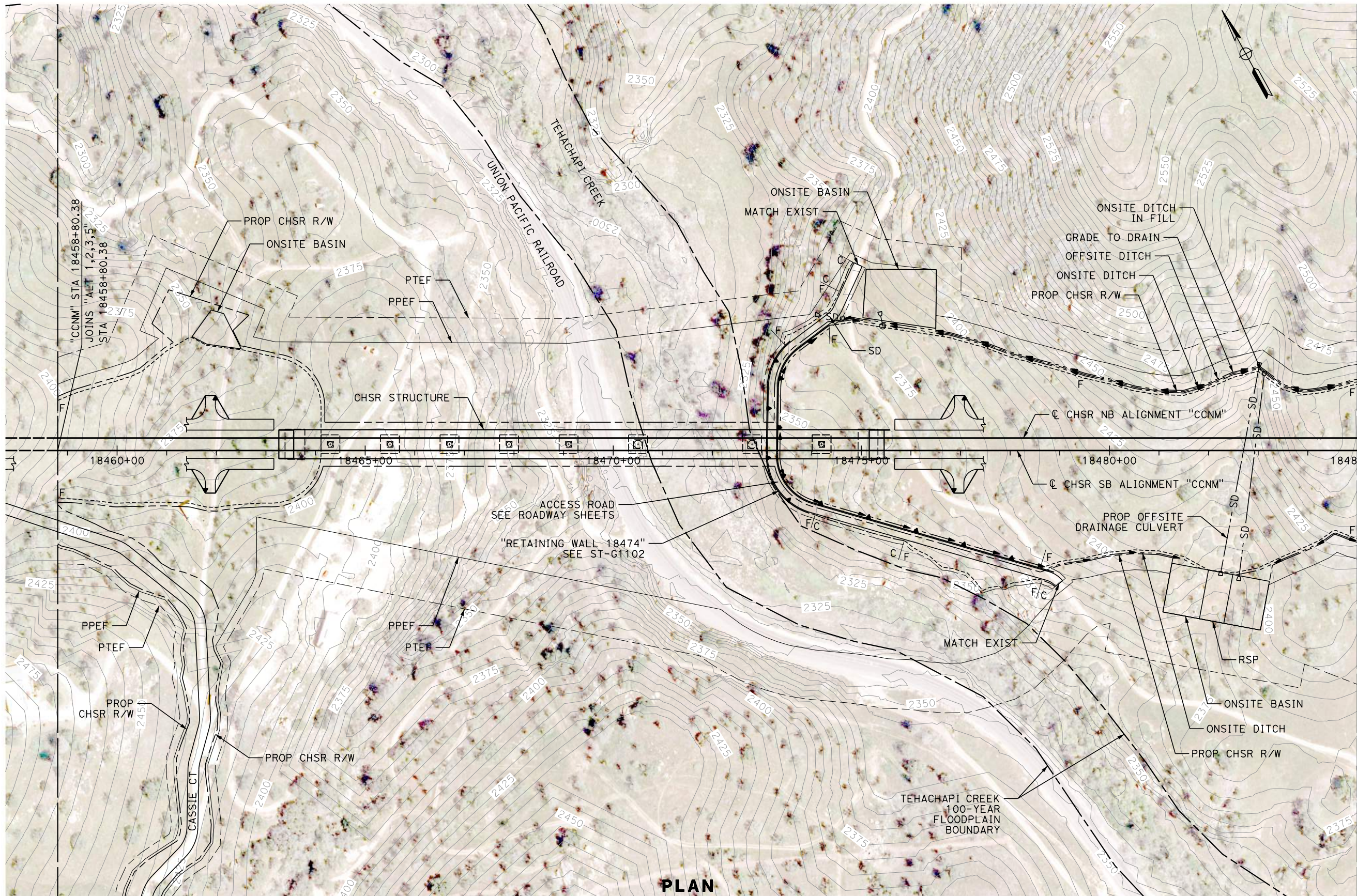
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BAKERSFIELD TO PALMDALE**

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GRADING AND DRAINAGE
STA 18805+46, 18808+99
OFFSITE CULVERT PROFILE

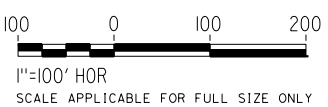
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SCALE
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SHEET NO.

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\CCNM\CV\G\BP-CV-G4601

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MATCH LINE (G4602)



PLAN

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

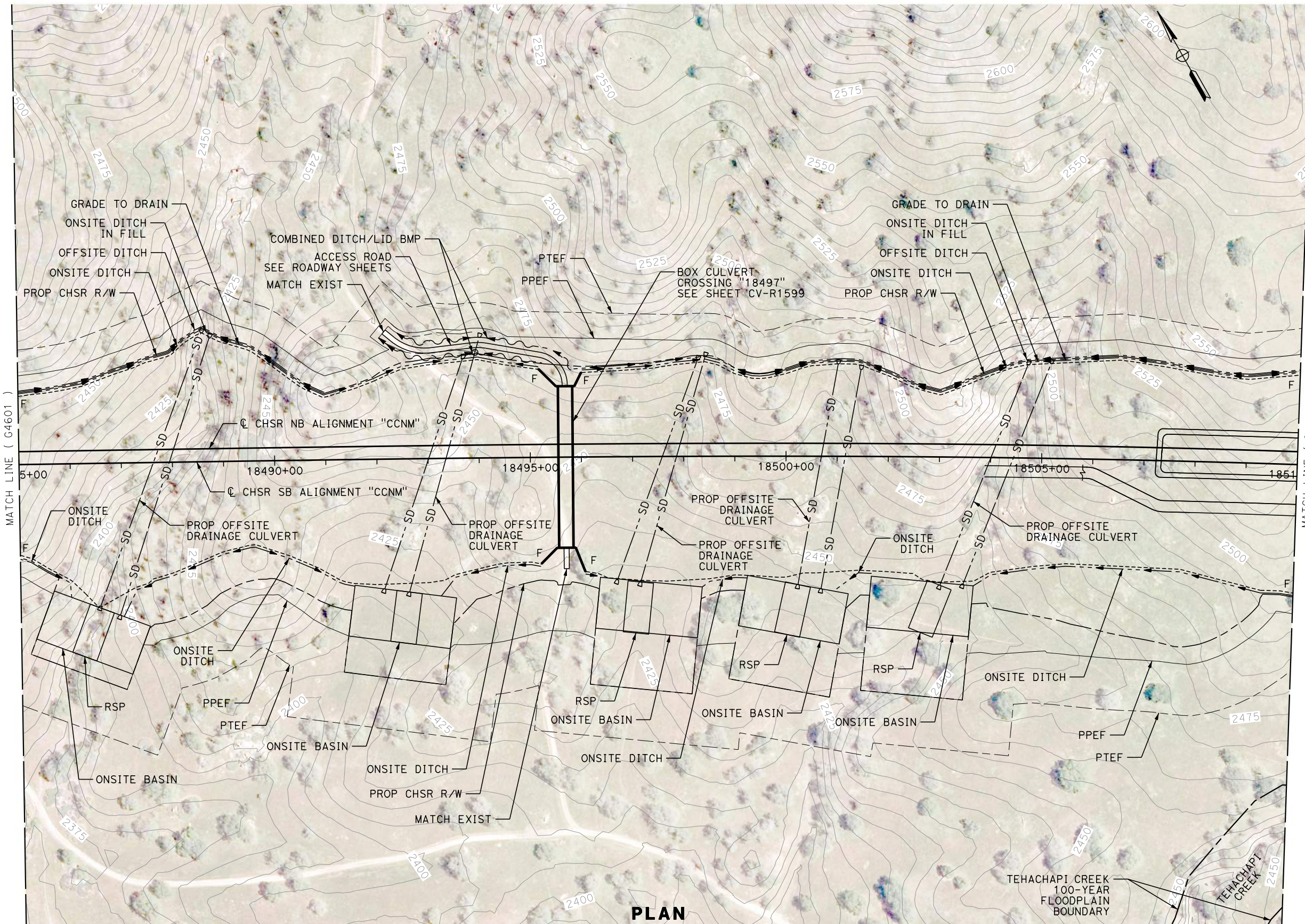
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STA 18458+80 TO 18485+00
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CONTRACT NO.
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DRAWING NO.
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SCALE
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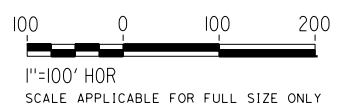
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MATCH LINE (G4601)

MATCH LINE (G4603)

PLAN



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

CCNM DESIGN OPTION
GRADING AND DRAINAGE
STA 18485+00 TO 18510+00
PLAN

CONTRACT NO.
HSR13-44

DRAWING NO.
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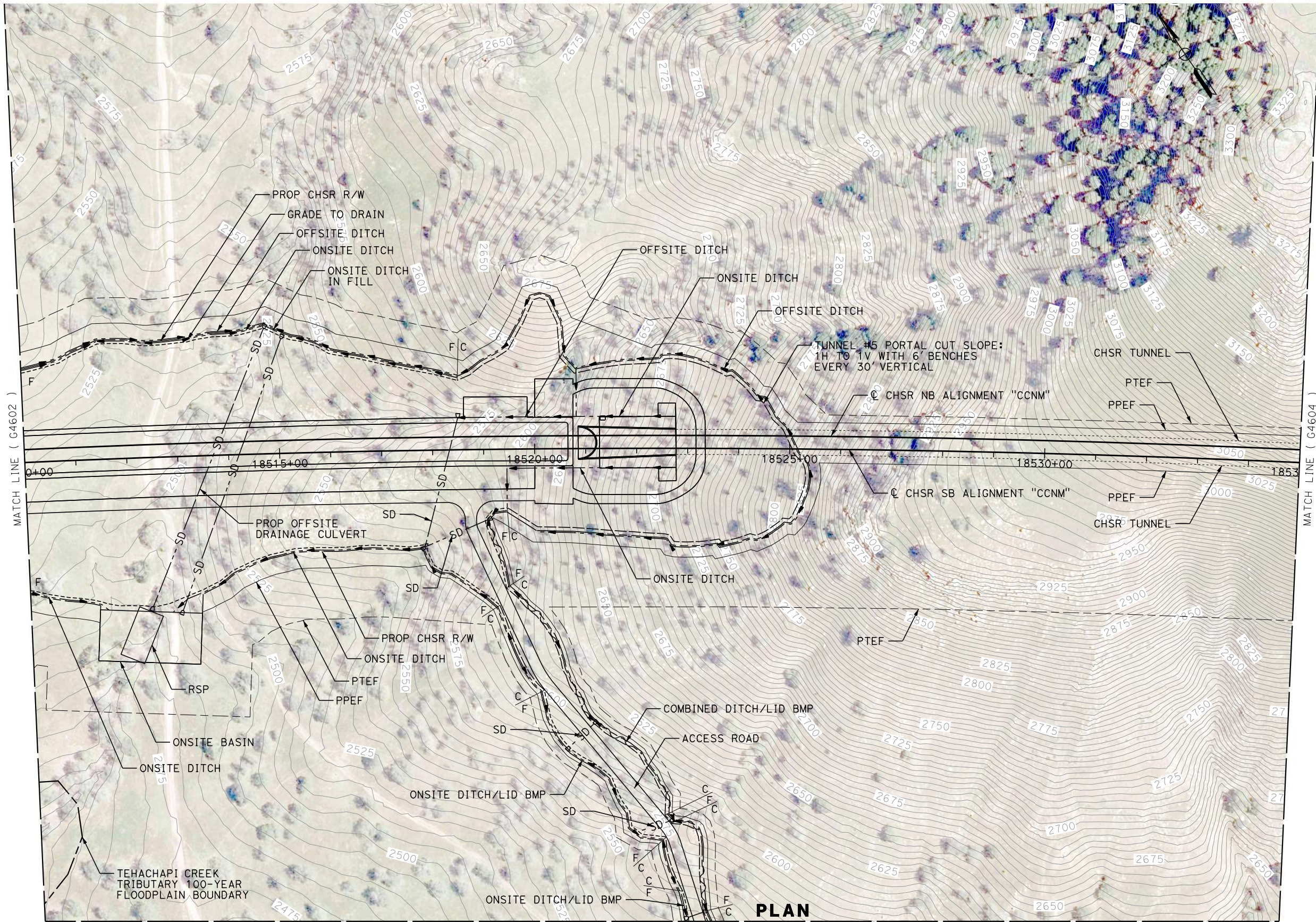
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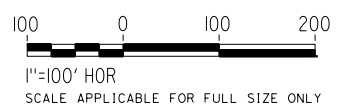


MATCH LINE (G4602)

MATCH LINE (G4604)

MATCH LINE (G4616)

PLAN



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G. CAMPBELL
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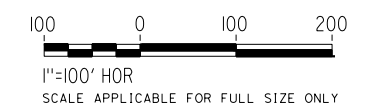
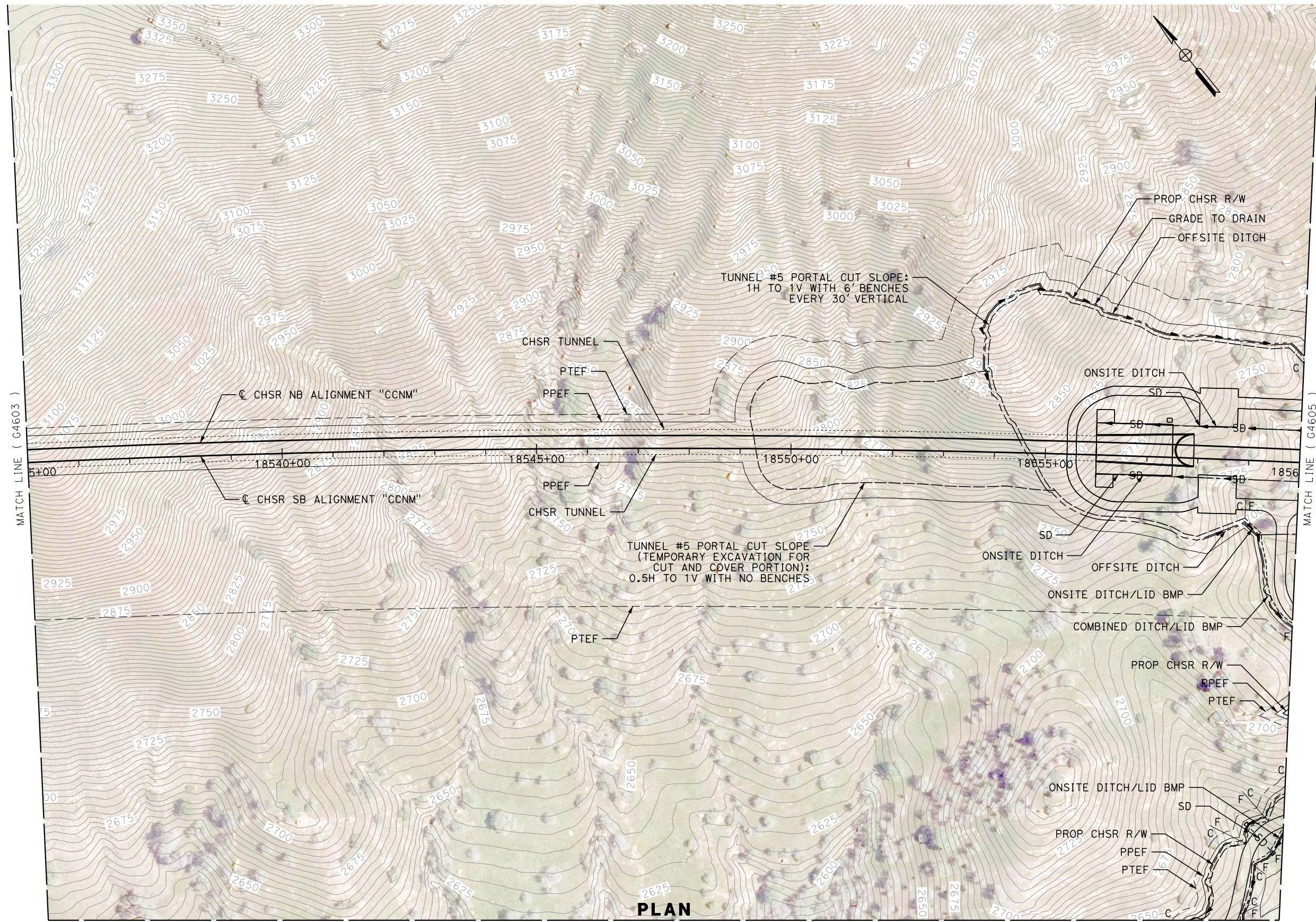
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BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
GRADING AND DRAINAGE
STA 18510+00 TO 18535+00
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CONTRACT NO.
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DRAWING NO.
CV-G4603
SCALE
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PLAN

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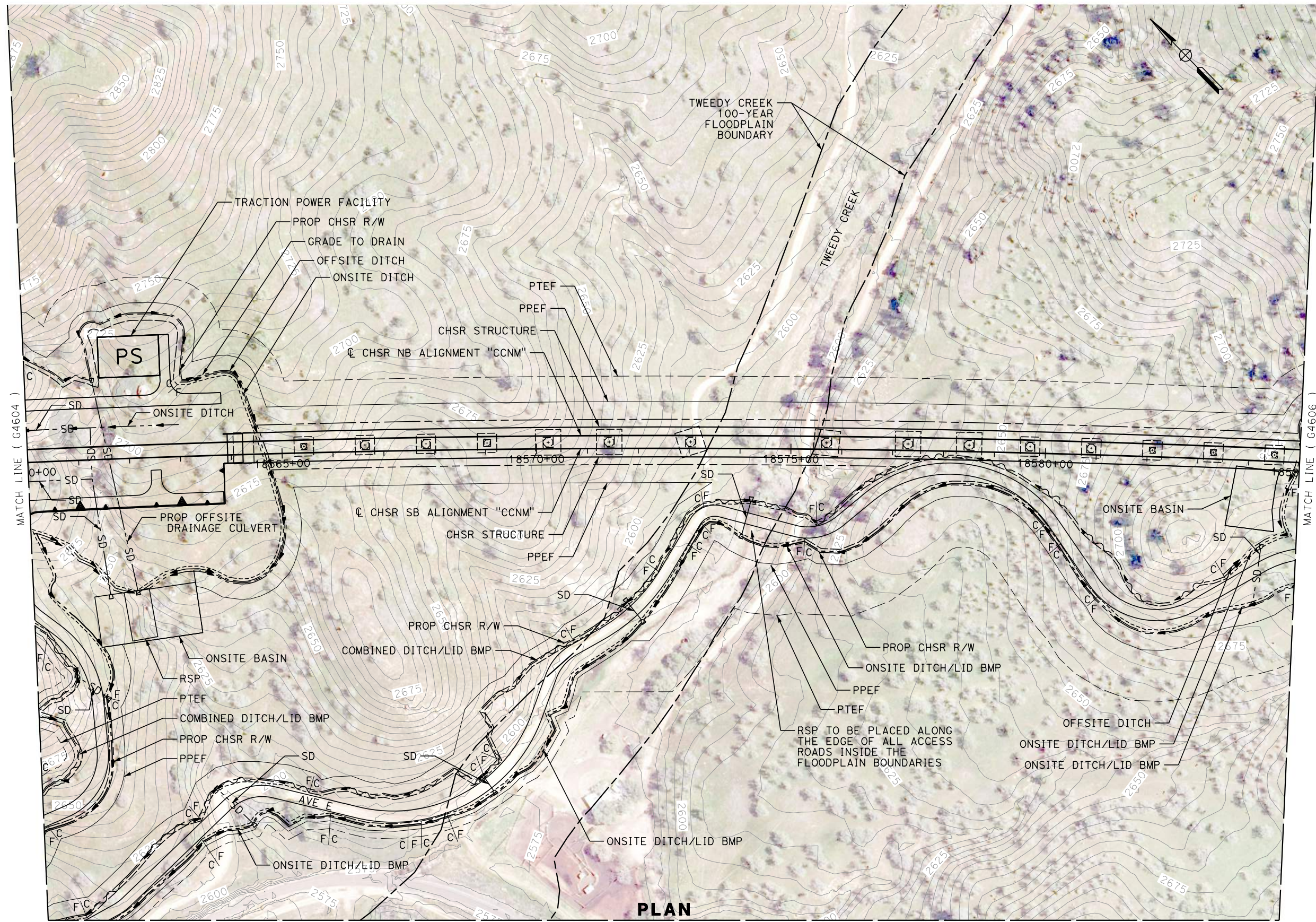
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BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
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STA 18535+00 TO 18560+00
PLAN

CONTRACT NO.
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DRAWING NO.
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SCALE
AS SHOWN
SHEET NO.

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TYL\G.Yamanaka\28/2019 4:56:03 PM



PLAN

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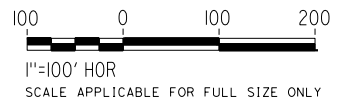
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BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
GRADING AND DRAINAGE
STA 18560+00 TO 18585+00
PLAN

CONTRACT NO.
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SCALE
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PLAN

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CHECKED BY
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IN CHARGE
G. CAMPBELL
DATE
03/06/2019

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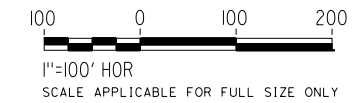
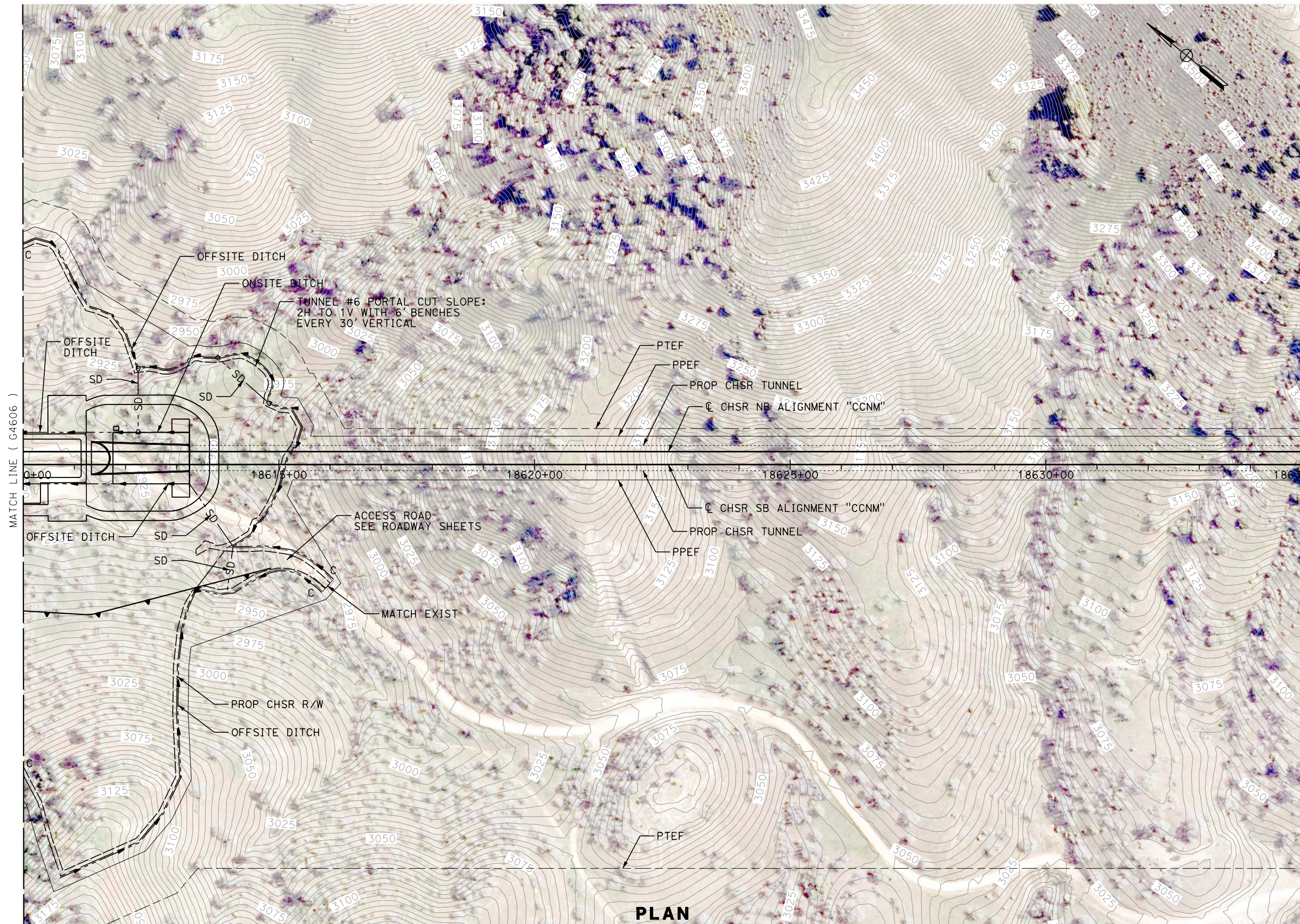
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
GRADING AND DRAINAGE
STA 18585+00 TO 18610+00
PLAN

CONTRACT NO.
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AS SHOWN
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G. CAMPBELL
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03/06/2019

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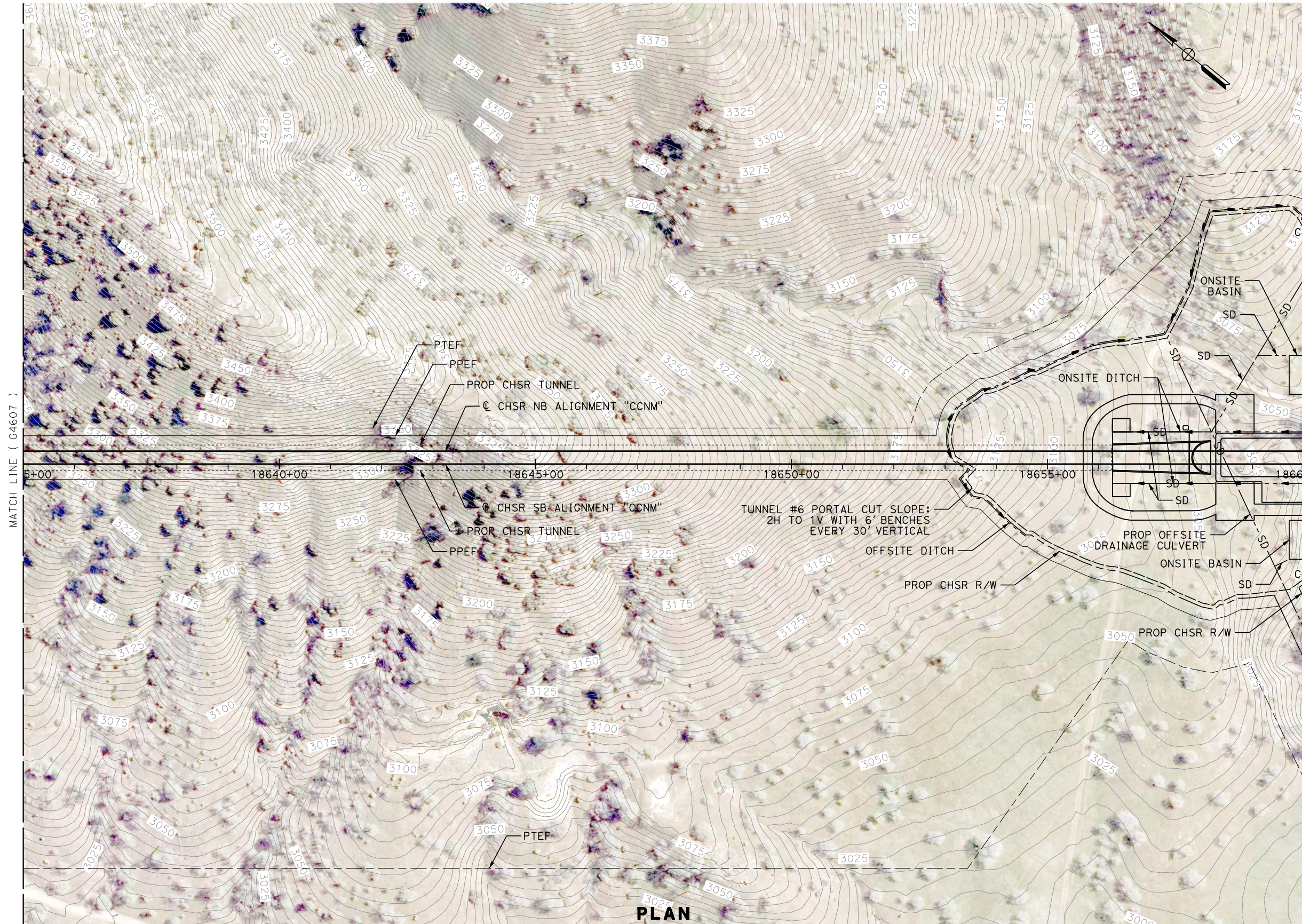
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
GRADING AND DRAINAGE
STA 18610+00 TO 18635+00
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CONTRACT NO.
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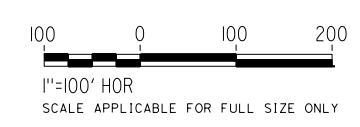
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MATCH LINE (G4607)

MATCH LINE (G4609)



PLAN

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A. RIVERA
CHECKED BY
G. CAMPBELL
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G. CAMPBELL
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03/06/2019

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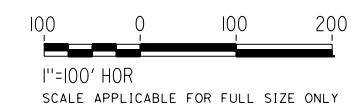
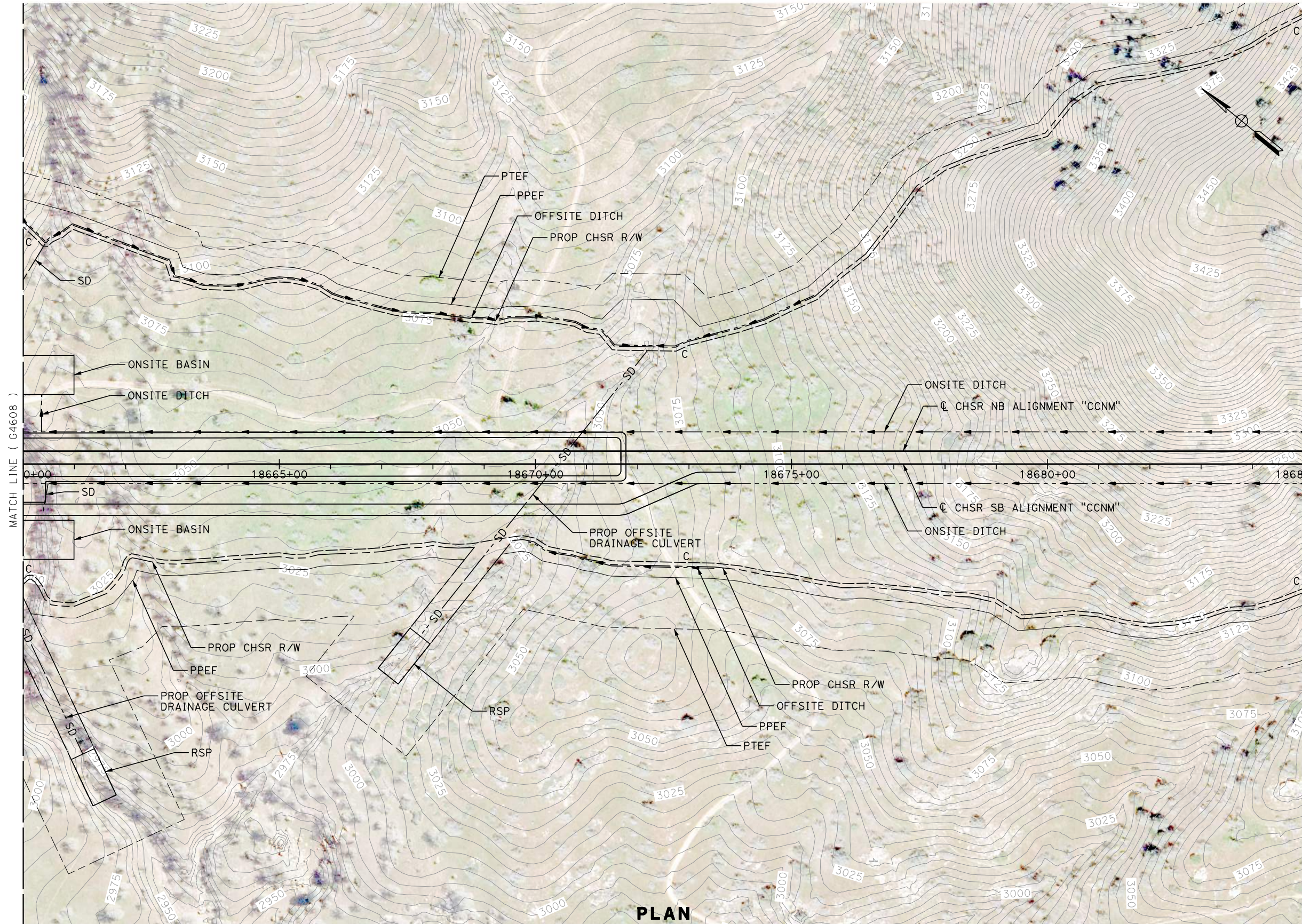
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
GRADING AND DRAINAGE
STA 18635+00 TO 18660+00
PLAN

CONTRACT NO.
HSR13-44
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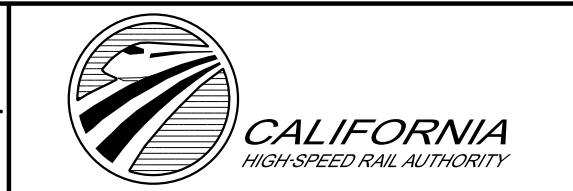
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DESIGNED BY
G. YAMANAKA
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G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

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

CCNM DESIGN OPTION
GRADING AND DRAINAGE
STA 18660+00 TO 18685+00
PLAN

CONTRACT NO.
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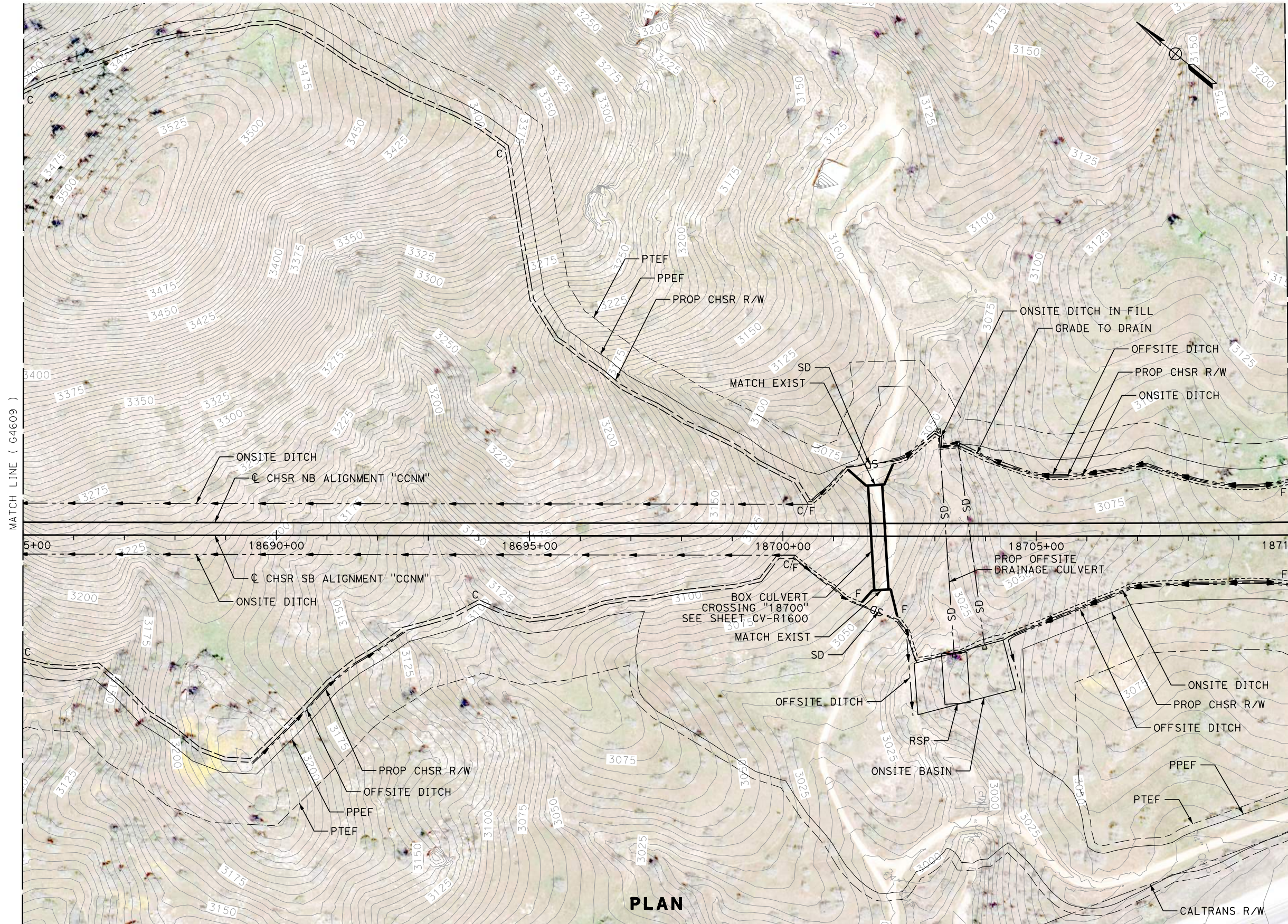
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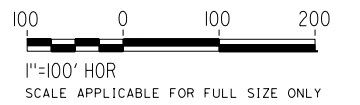
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TYL\G.Yamanaka\28/2019 11:24:11 AM



PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
A. RIVERA
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

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CONSTRUCTION**



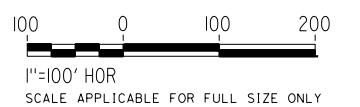
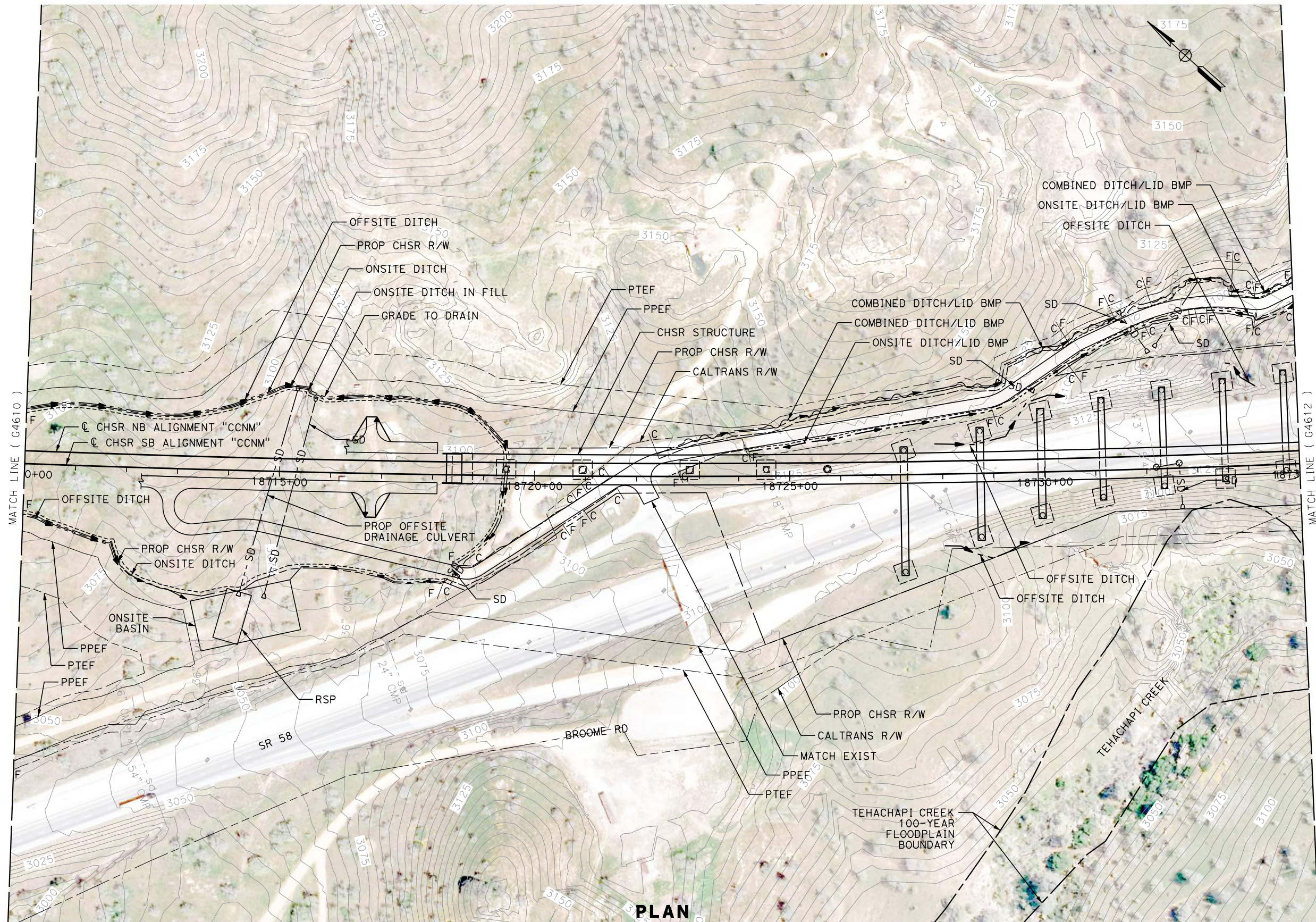
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
GRADING AND DRAINAGE
STA 18685+00 TO 18710+00
PLAN

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4610
SCALE
AS SHOWN
SHEET NO.

Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\CCNM\CV\BP-CV-G4611

TYL\G.Yamanaka\28/2019 11:24:25 AM



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
A. RIVERA
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



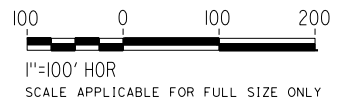
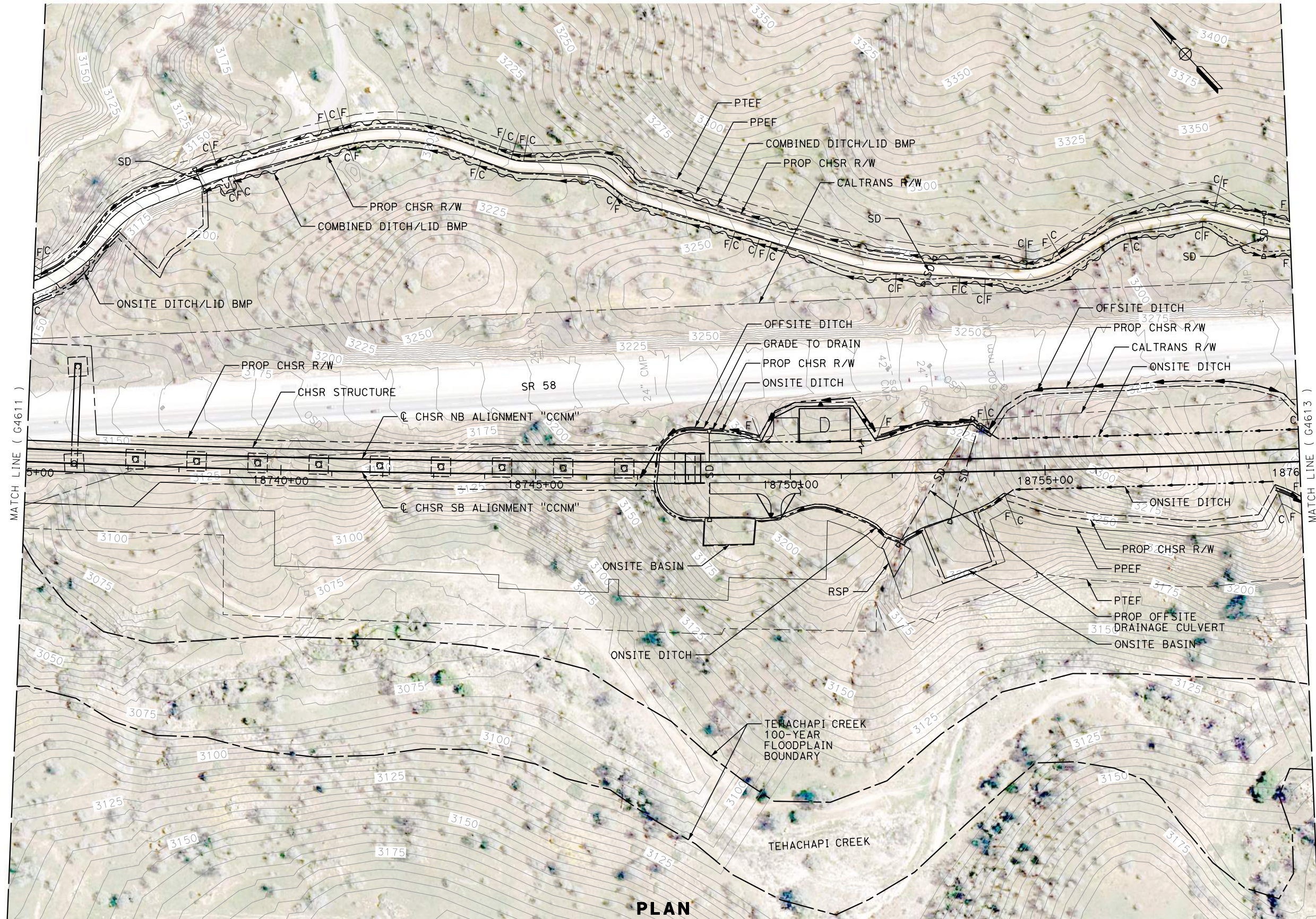
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
GRADING AND DRAINAGE
STA 18710+00 TO 18735+00
PLAN

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4611
SCALE
AS SHOWN
SHEET NO.

Projects\701206.00_CHSRBP\00_CADD_Sheet_Files\CCNM\CV\G\BP-CV-G4612

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PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
A. RIVERA
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
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SUBMITTAL**

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CONSTRUCTION**



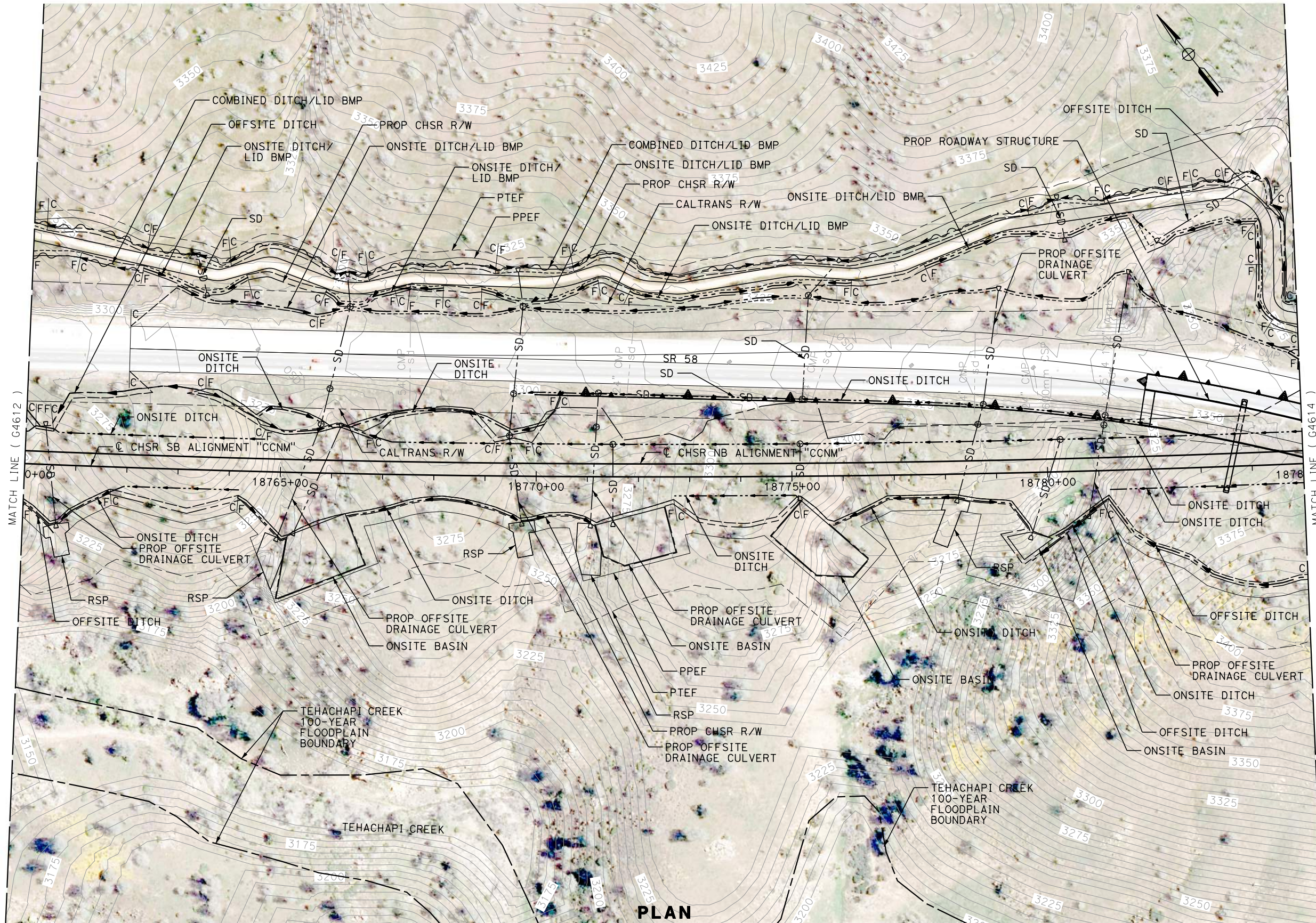
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
GRADING AND DRAINAGE
STA 18735+00 TO 18760+00
PLAN

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4612
SCALE
AS SHOWN
SHEET NO.

Projects\701206.00_CHSRBP\00_CADD\Sheet_Files\CCNM\CV\BP-CV-G4613

TYL\G.Yamanaka\28/2019 11:24:19 AM



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
A. RIVERA
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

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

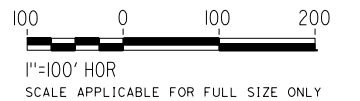
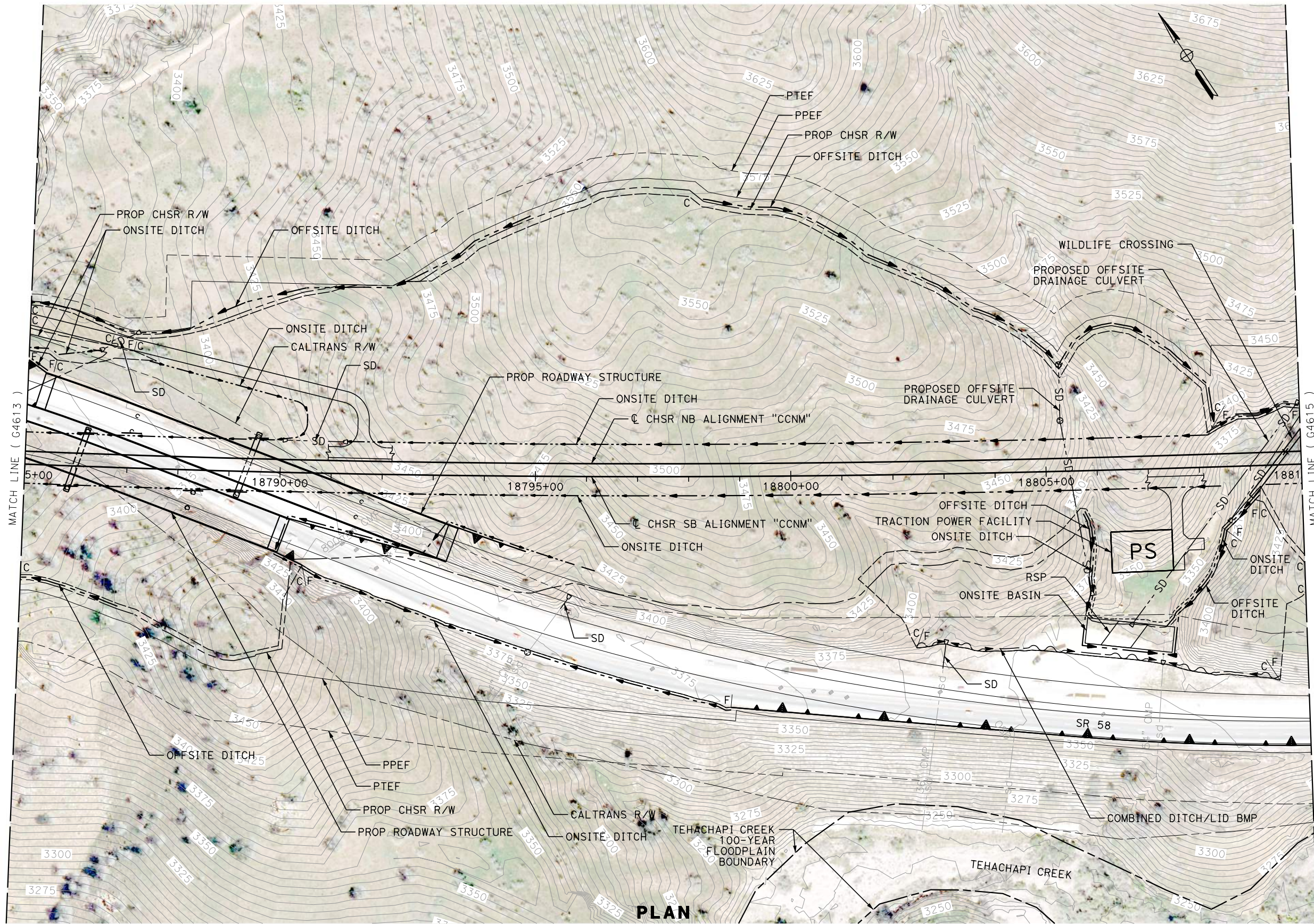
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GRADING AND DRAINAGE
STA 18760+00 TO 18785+00
PLAN

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4613
SCALE
AS SHOWN
SHEET NO.

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\CCNM\CV\G\BP-CV-G4614

11:24:04 AM

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REV	DATE	BY	CHK	APP.	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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A. RIVERA
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

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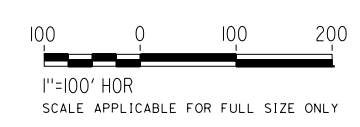
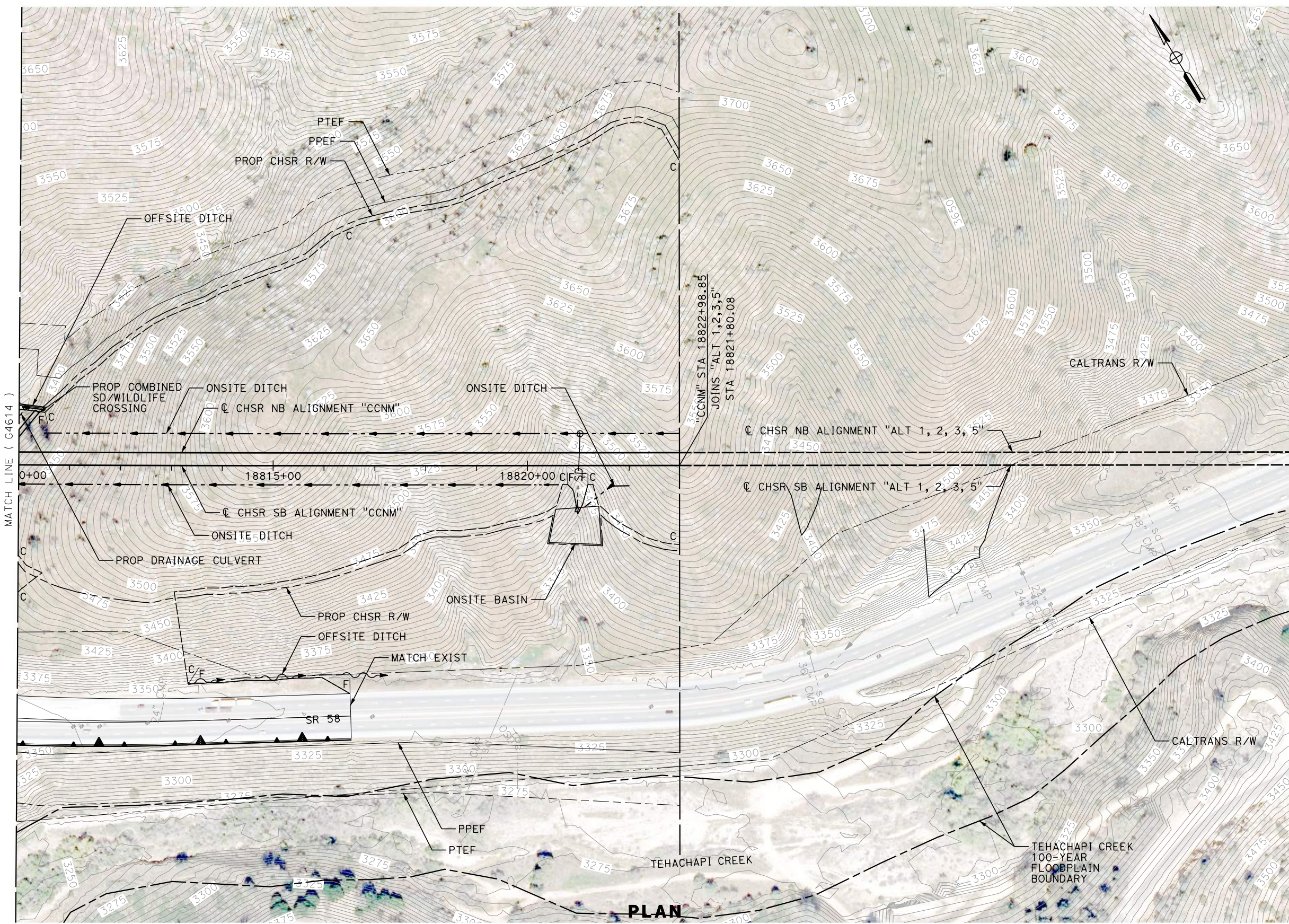
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
GRADING AND DRAINAGE
STA 18785+00 TO 18810+00
PLAN

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4614
SCALE
AS SHOWN
SHEET NO.

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\CCNM\CV\BP-CV-G4615

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PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
A. RIVERA
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



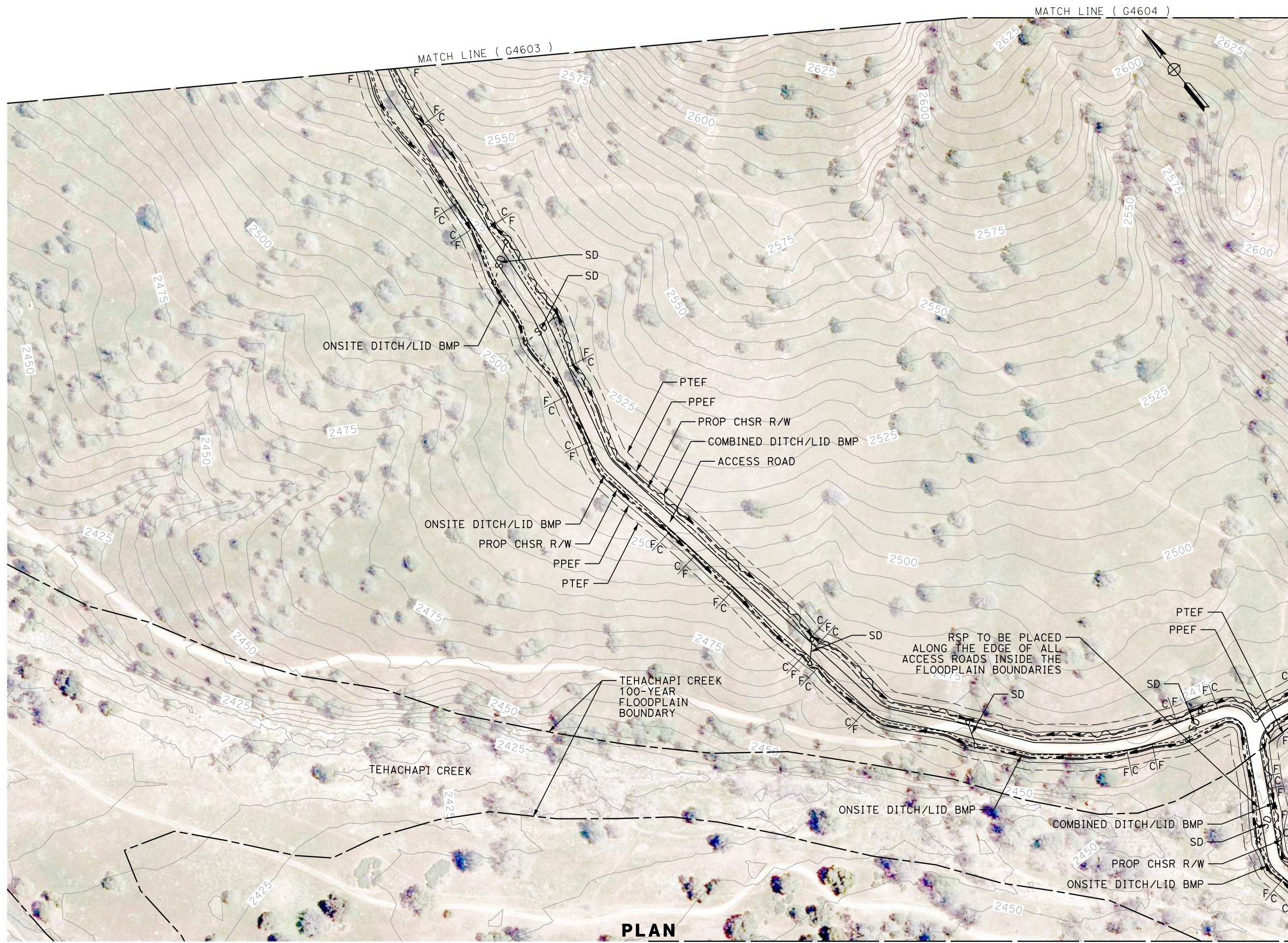
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
GRADING AND DRAINAGE
STA 18810+00 TO 18822+99
PLAN

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4615
SCALE
AS SHOWN
SHEET NO.

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\CCNM\CV\G\BP-CV-G4616

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PLAN

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DESIGNED BY
G. YAMANAKA
DRAWN BY
A. RIVERA
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

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

CCNM DESIGN OPTION
GRADING AND DRAINAGE
ACCESS ROAD STA 18519+00
PLAN

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G4616

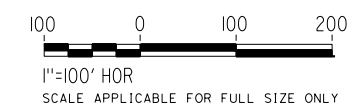
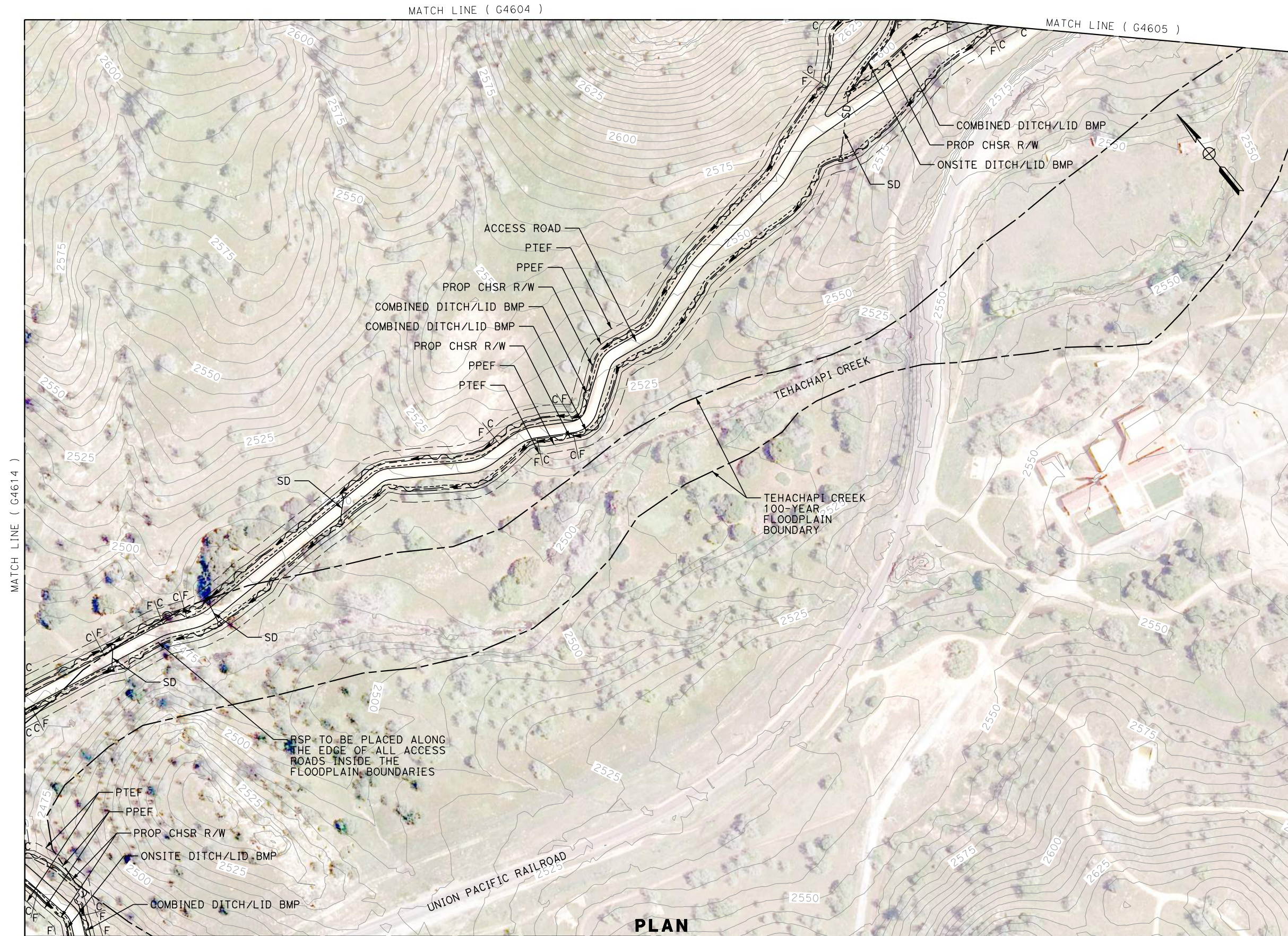
SCALE
AS SHOWN

SHEET NO.

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\CCNM\CV\BP-CV-G4617

4:56:05 PM

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PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
A. RIVERA
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
03/06/2019

**RECORD
PEPD
SUBMITTAL**

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CONSTRUCTION**



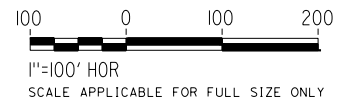
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

CCNM DESIGN OPTION
GRADING AND DRAINAGE
ACCESS ROAD STA 18560+00
PLAN

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4617
SCALE
AS SHOWN
SHEET NO.

MATCH LINE (G4616)

MATCH LINE (G4617)



PLAN

Projects\701206_00_CHSRBP\00_CADD\Sheet Files\CCNM\CV\BP-CV-G4618
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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
03/06/2019

**RECORD
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SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

CCNM DESIGN OPTION
GRADING AND DRAINAGE
ACCESS ROAD STA 18519+00
PLAN

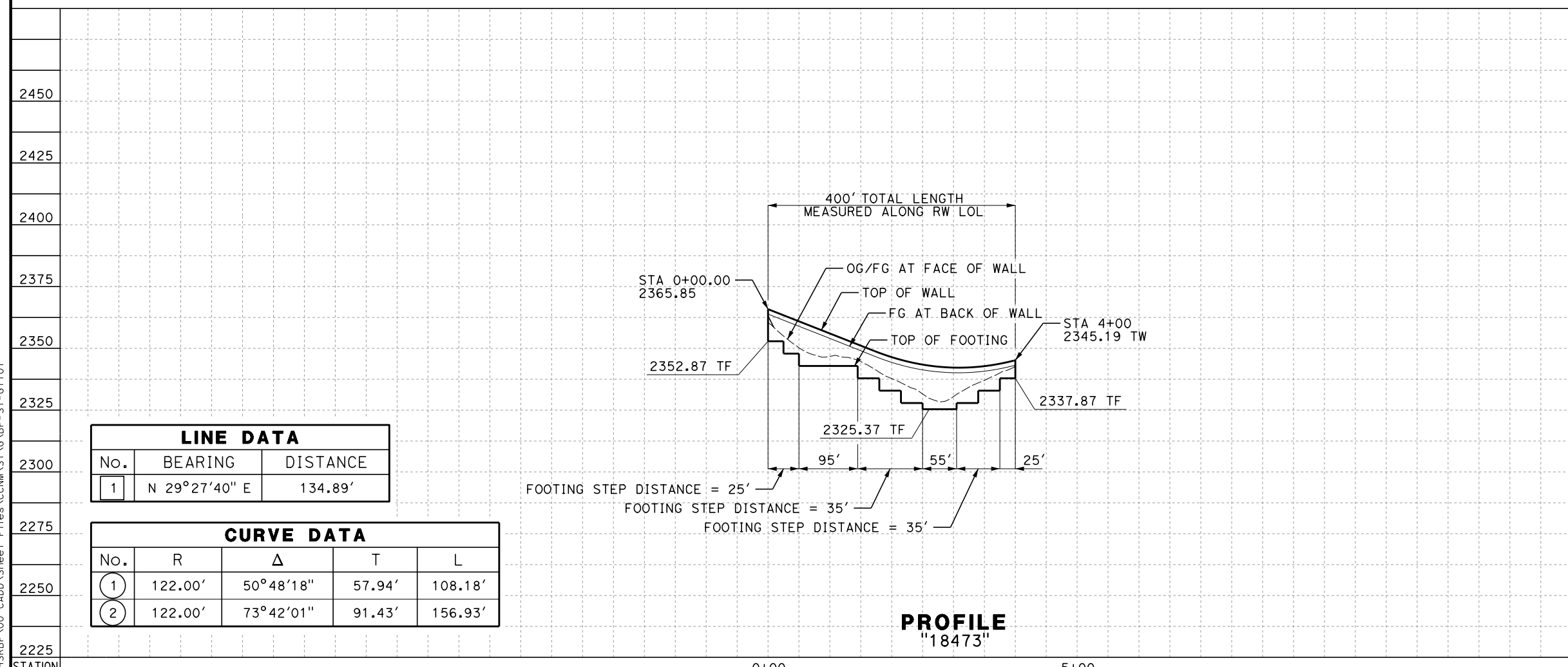
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HSR13-44

DRAWING NO.
CV-G4618

SCALE
AS SHOWN

SHEET NO.

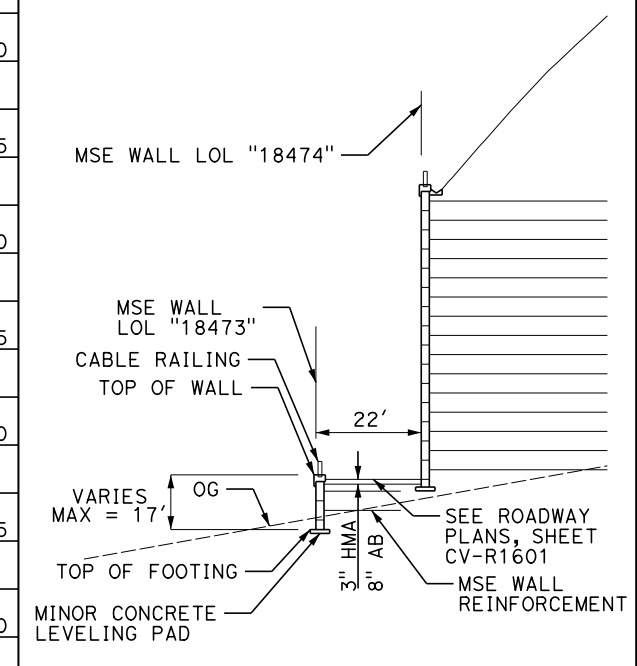
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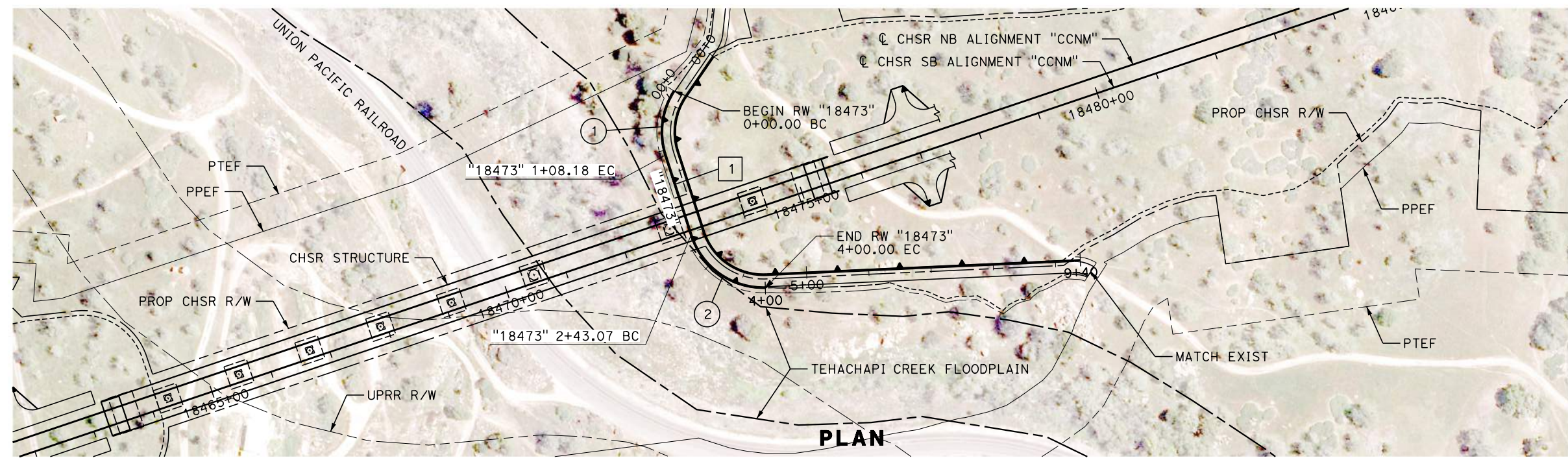
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No.	BEARING	DISTANCE
1	N 29°27'40" E	134.89'

CURVE DATA				
No.	R	Δ	T	L
1	122.00'	50°48'18"	57.94'	108.18'
2	122.00'	73°42'01"	91.43'	156.93'

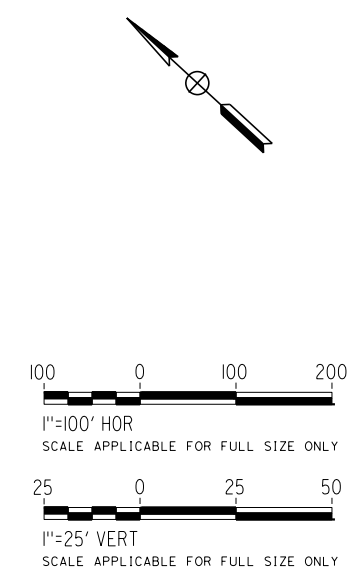
PROFILE
"18473"



TYPICAL WALL SECTION



PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
DRAWN BY
A. RIVERA
CHECKED BY
S. SMITH
IN CHARGE
G. CAMPBELL
DATE
11/19/2018

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PEPD
SUBMITTAL

NOT FOR
CONSTRUCTION

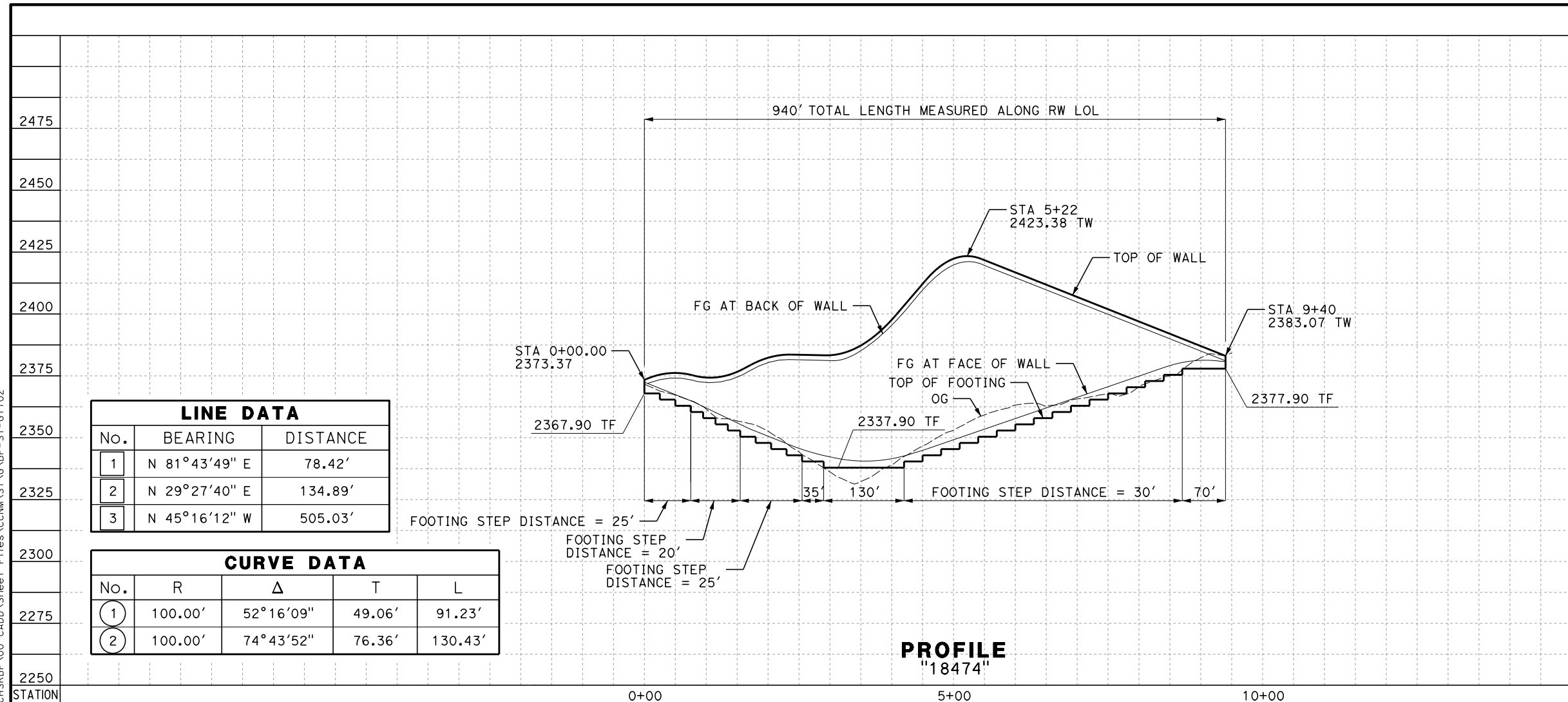


CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
CCNM DESIGN OPTION
RETAINING WALL
18473
PLAN AND PROFILE

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-G1101
SCALE
AS SHOWN
SHEET NO.

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\CCNM\ST-G\BP-ST-G1102

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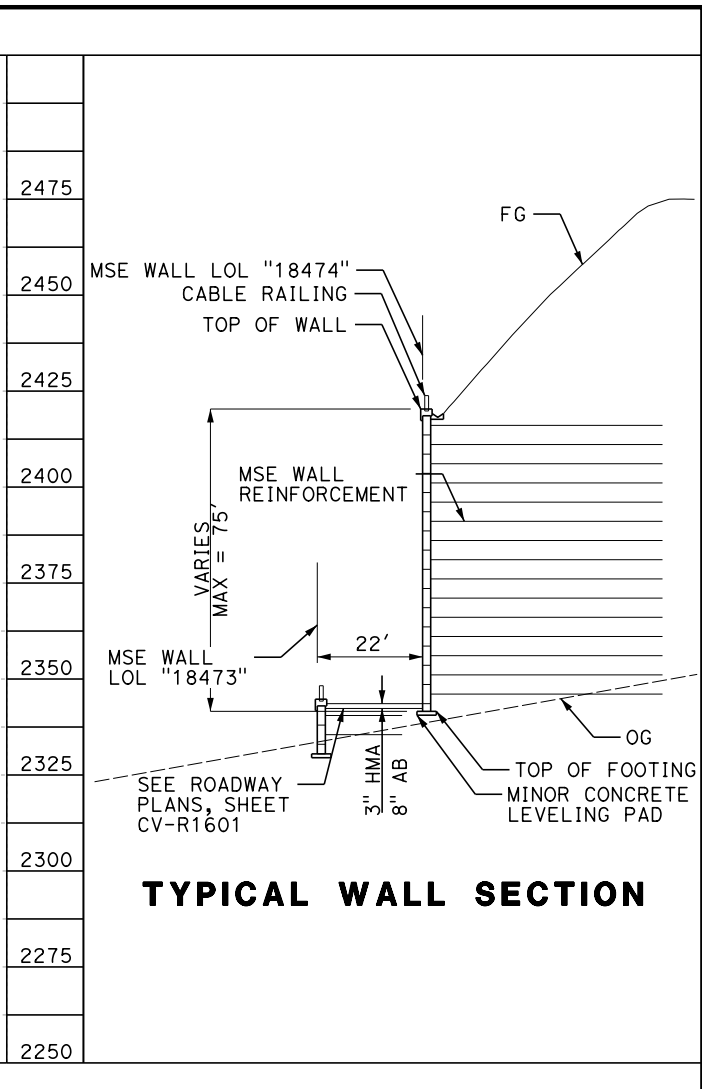


LINE DATA		
No.	BEARING	DISTANCE
1	N 81°43'49" E	78.42'
2	N 29°27'40" E	134.89'
3	N 45°16'12" W	505.03'

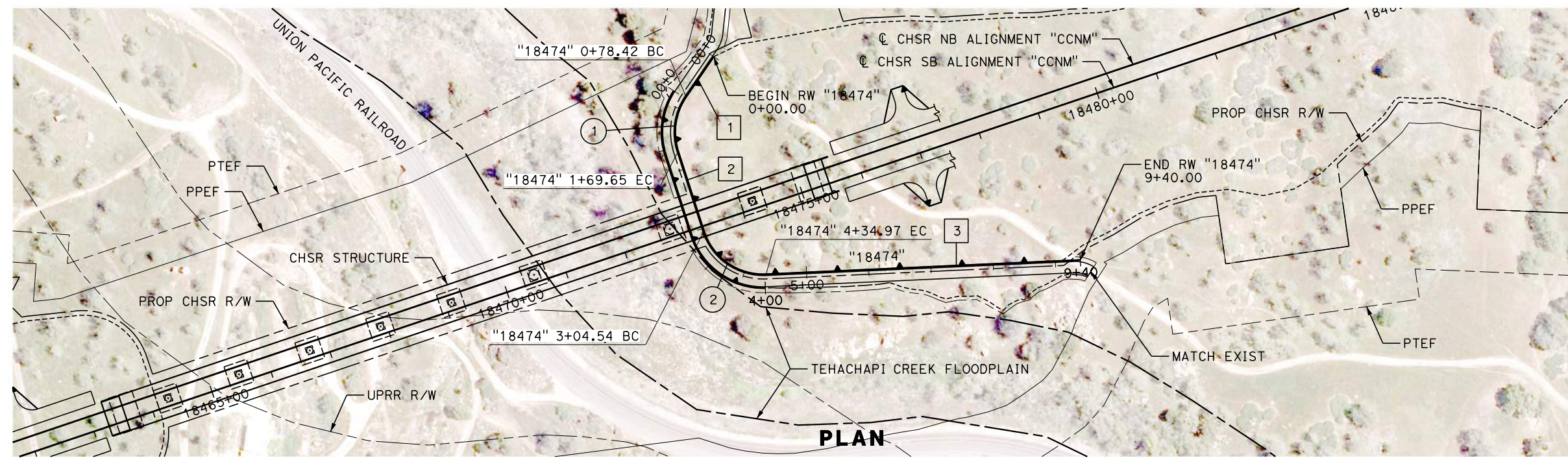
CURVE DATA				
No.	R	Δ	T	L
1	100.00'	52°16'09"	49.06'	91.23'
2	100.00'	74°43'52"	76.36'	130.43'

FOOTING STEP DISTANCE = 25'
 FOOTING STEP DISTANCE = 20'
 FOOTING STEP DISTANCE = 25'

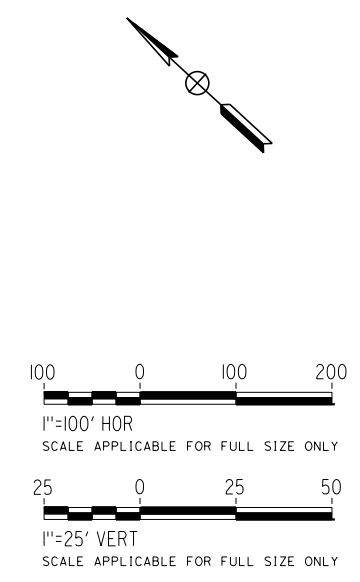
PROFILE
"18474"



TYPICAL WALL SECTION



PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
 DRAWN BY
A. RIVERA
 CHECKED BY
S. SMITH
 IN CHARGE
G. CAMPBELL
 DATE
11/19/2018

DRAFT
PEPD
SUBMITTAL

NOT FOR
CONSTRUCTION

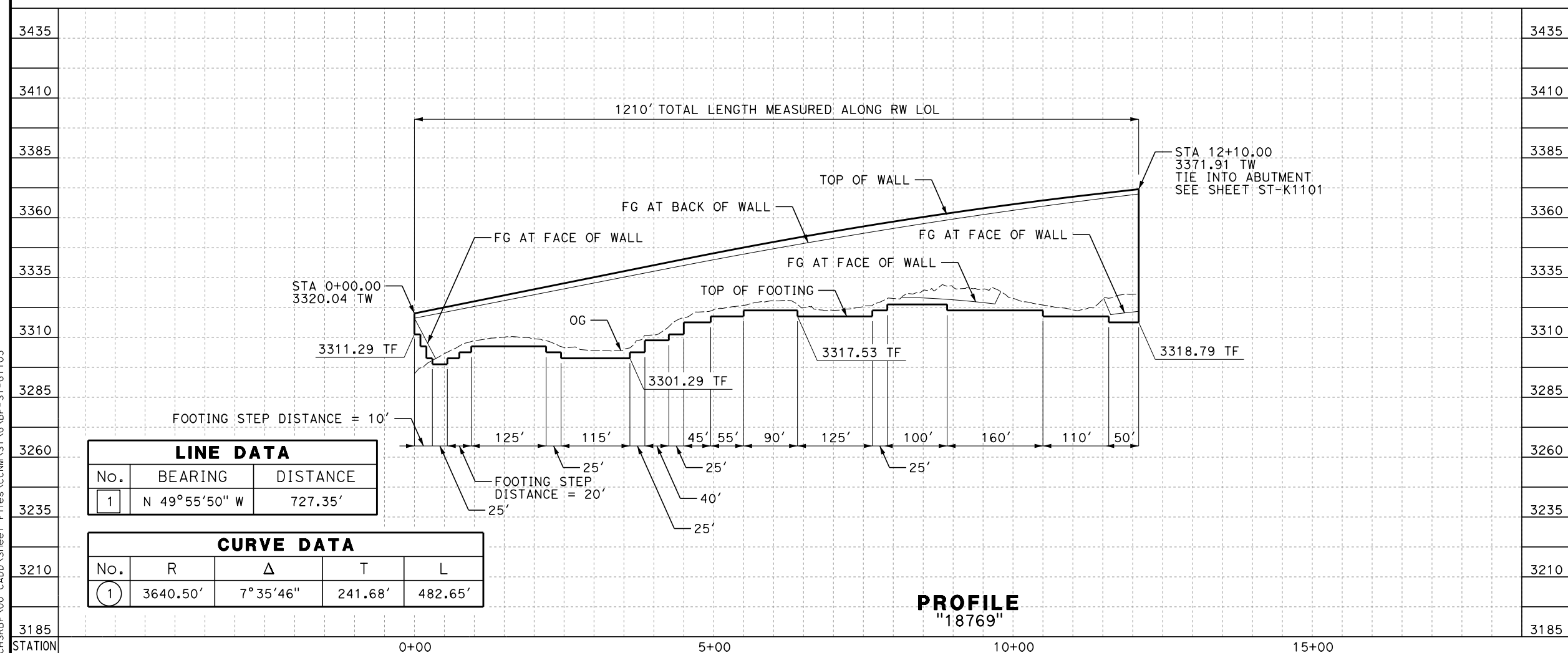


CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 CCNM DESIGN OPTION
 RETAINING WALL
 18474
 PLAN AND PROFILE

CONTRACT NO.
HSR13-44
 DRAWING NO.
ST-G1102
 SCALE
AS SHOWN
 SHEET NO.

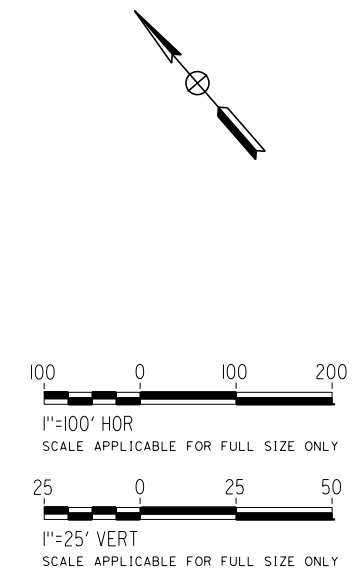
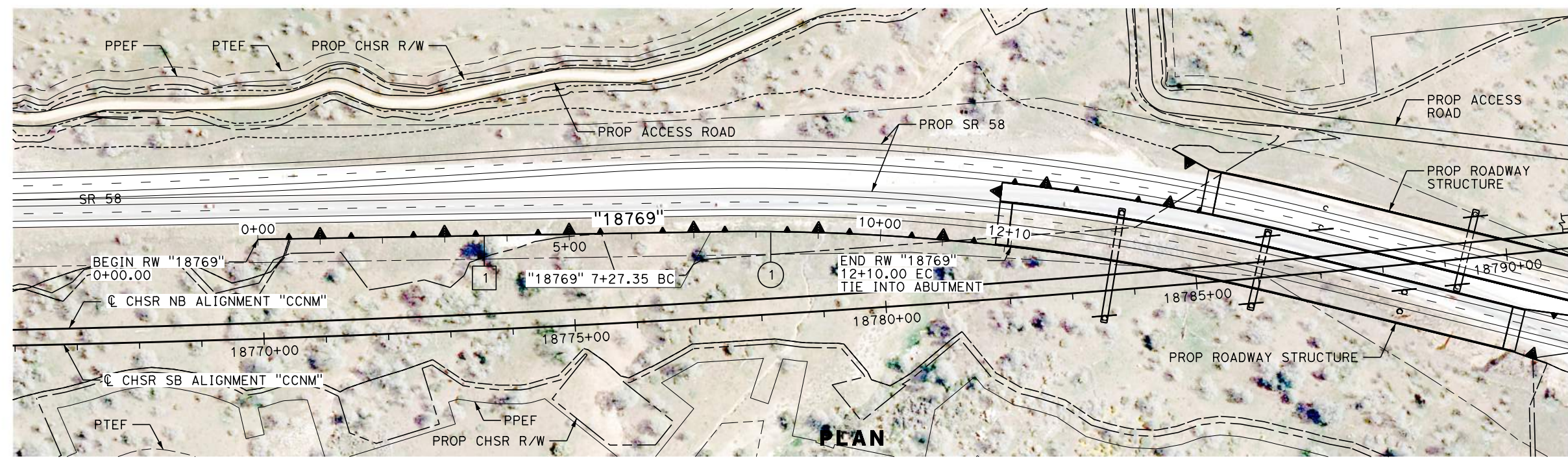
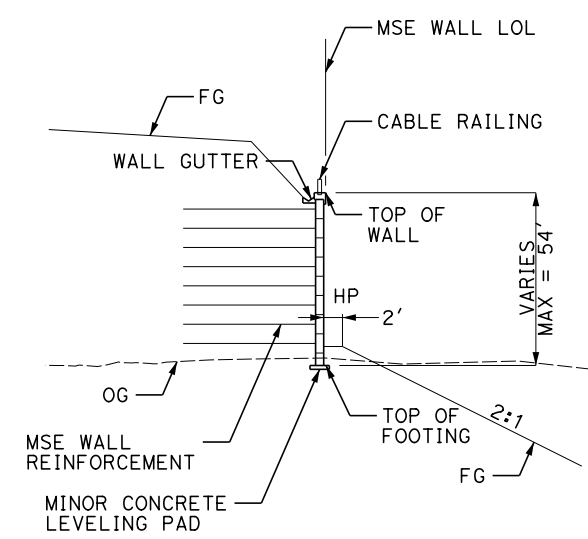
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LINE DATA		
No.	BEARING	DISTANCE
1	N 49°55'50" W	727.35'

CURVE DATA				
No.	R	Δ	T	L
1	3640.50'	7°35'46"	241.68'	482.65'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA

DRAWN BY
A. RIVERA

CHECKED BY
S. SMITH

IN CHARGE
G. CAMPBELL

DATE
11/19/2018

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
CCNM DESIGN OPTION
RETAINING WALL
18769 (STATE ROUTE 58)
PLAN AND PROFILE

CONTRACT NO.
HSR13-44

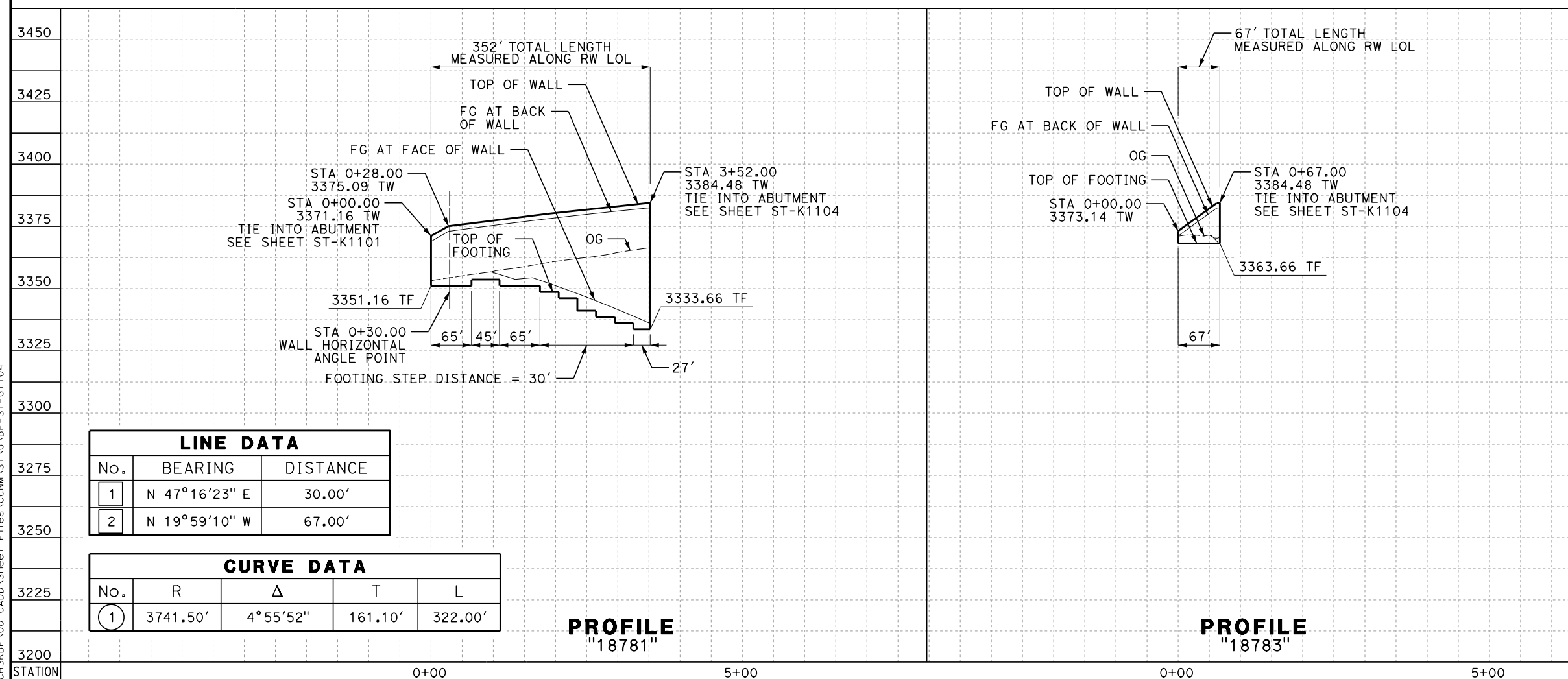
DRAWING NO.
ST-G1103

SCALE
AS SHOWN

SHEET NO.

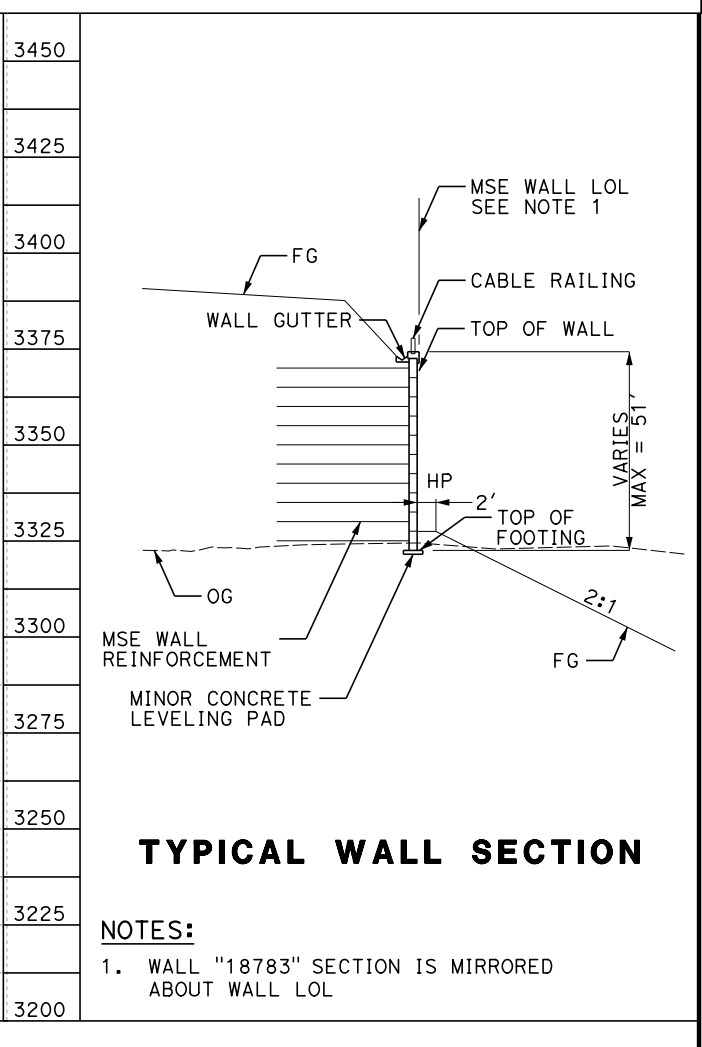
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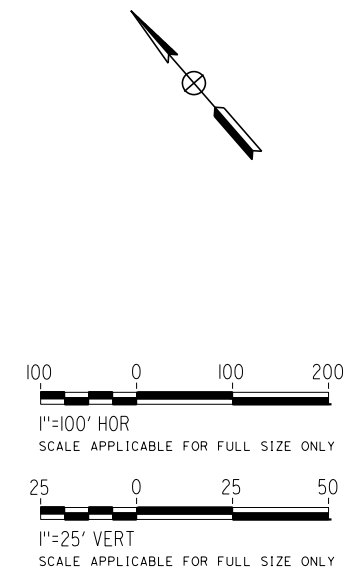
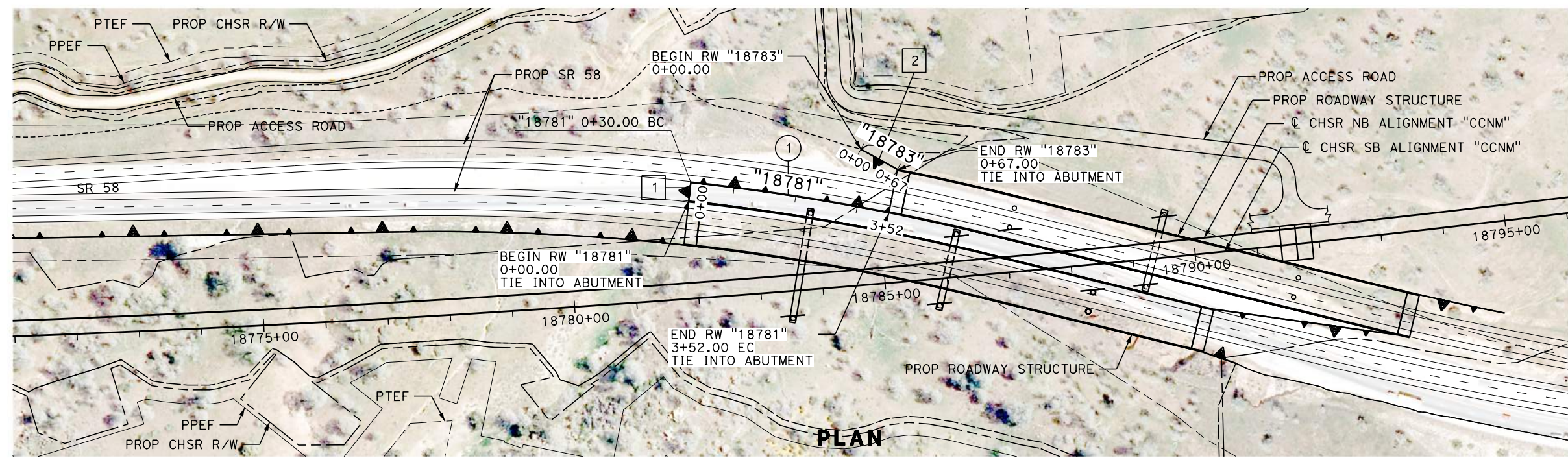
LINE DATA		
No.	BEARING	DISTANCE
1	N 47°16'23" E	30.00'
2	N 19°59'10" W	67.00'

CURVE DATA				
No.	R	Δ	T	L
1	3741.50'	4°55'52"	161.10'	322.00'



TYPICAL WALL SECTION

- NOTES:**
- WALL "18783" SECTION IS MIRRORED ABOUT WALL LOL



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
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A. RIVERA
CHECKED BY
S. SMITH
IN CHARGE
G. CAMPBELL
DATE
11/19/2018

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SUBMITTAL**

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CONSTRUCTION**

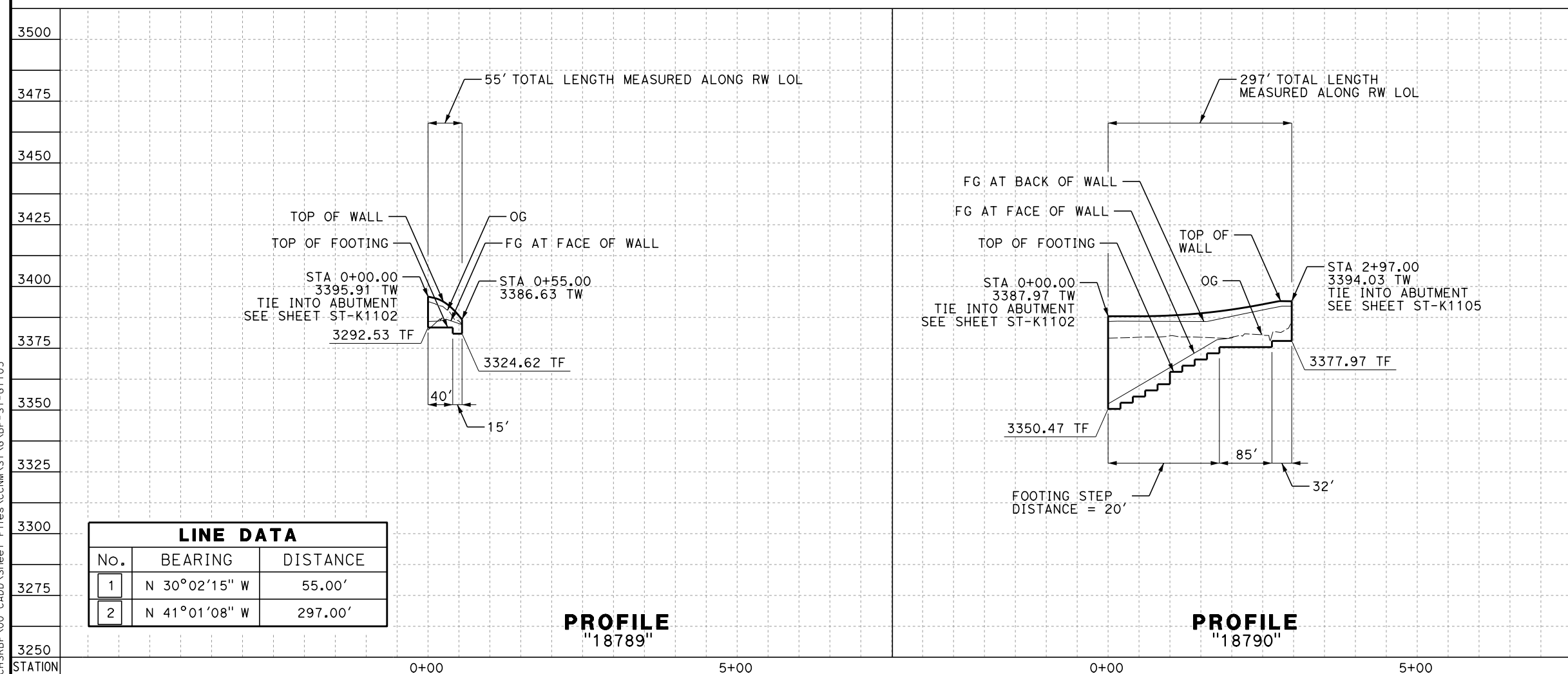


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
CCNM DESIGN OPTION
RETAINING WALL
18781 AND 18783 (STATE ROUTE 58)
PLAN AND PROFILE

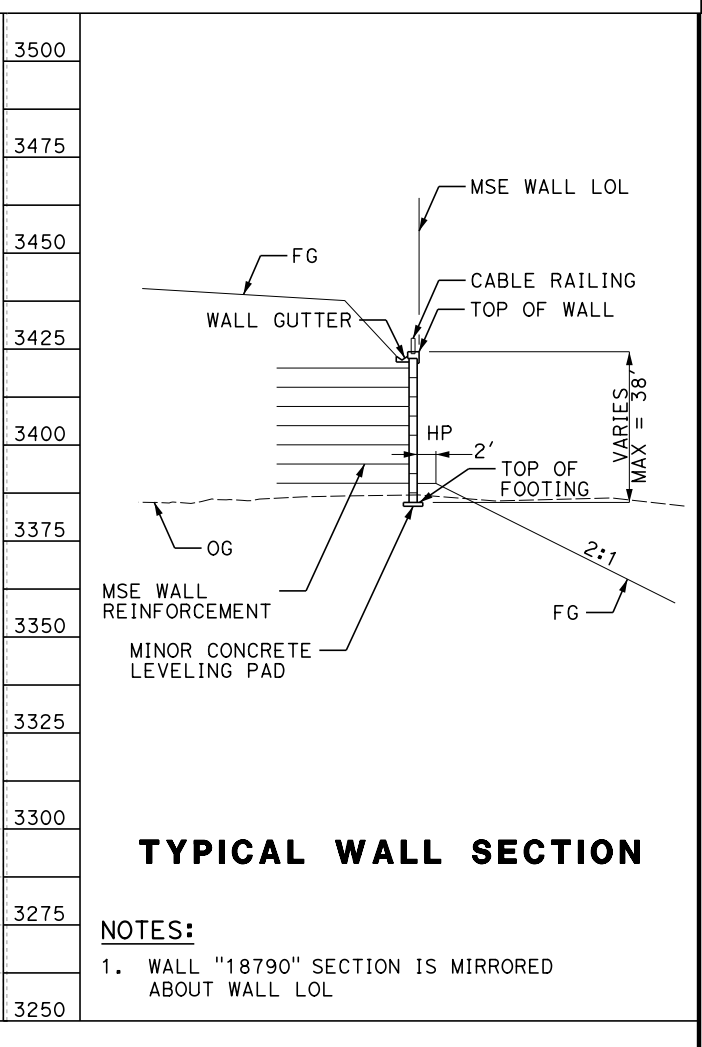
CONTRACT NO.
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DRAWING NO.
ST-G1104
SCALE
AS SHOWN
SHEET NO.

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\CCNM\ST\G\BP-ST-G1105

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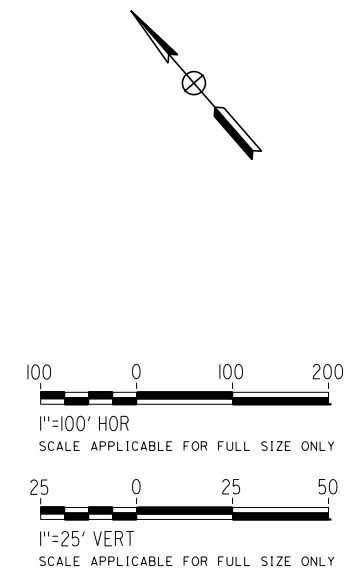
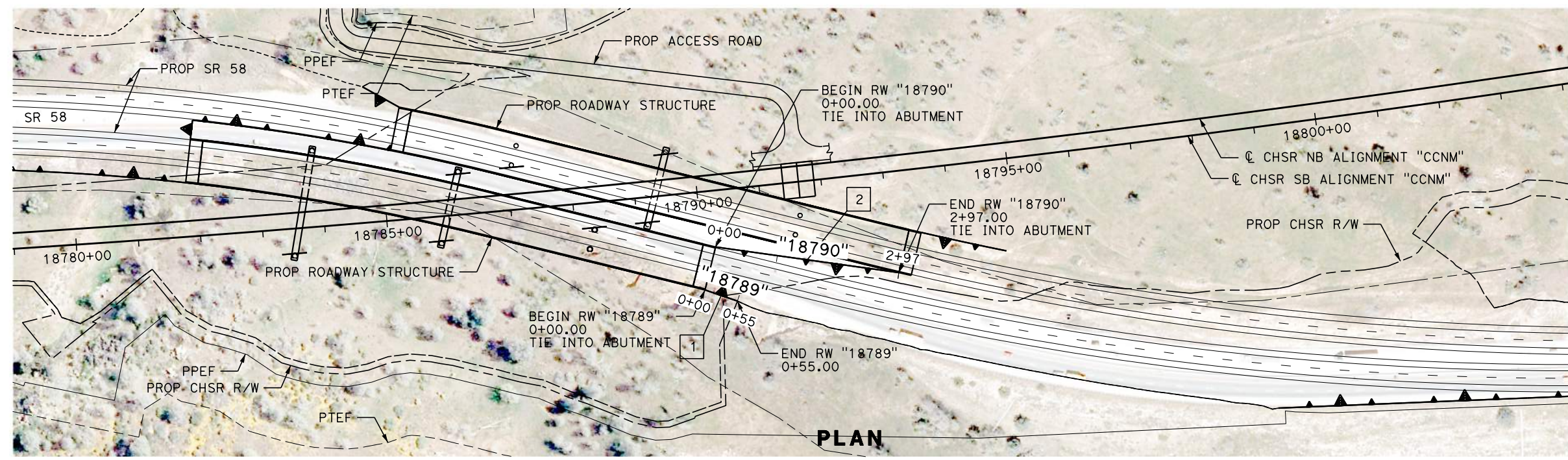


LINE DATA		
No.	BEARING	DISTANCE
1	N 30°02'15" W	55.00'
2	N 41°01'08" W	297.00'



TYPICAL WALL SECTION

- NOTES:**
- WALL "18790" SECTION IS MIRRORED ABOUT WALL LOL



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
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A. RIVERA
CHECKED BY
S. SMITH
IN CHARGE
G. CAMPBELL
DATE
11/19/2018

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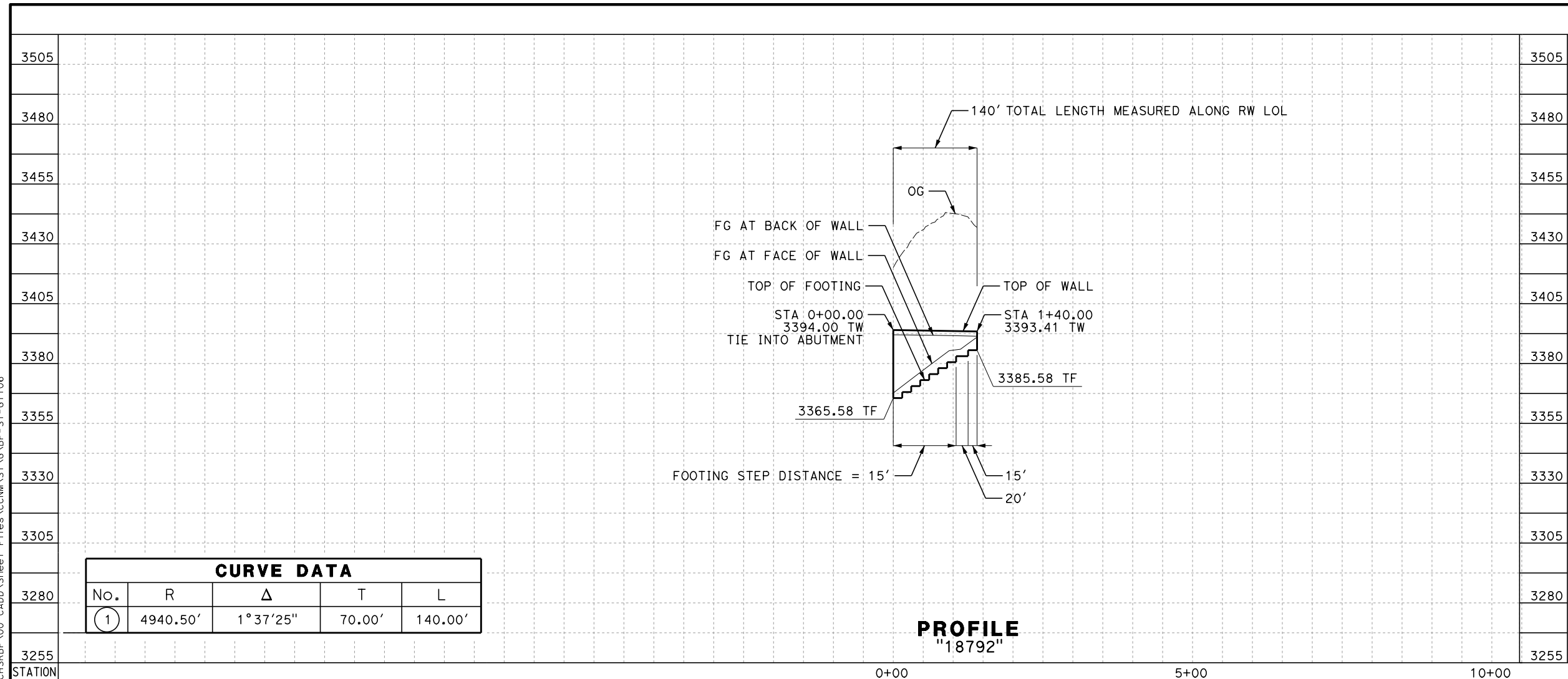
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
CCNM DESIGN OPTION
RETAINING WALL
18789 AND 18790 (STATE ROUTE 58)
PLAN AND PROFILE

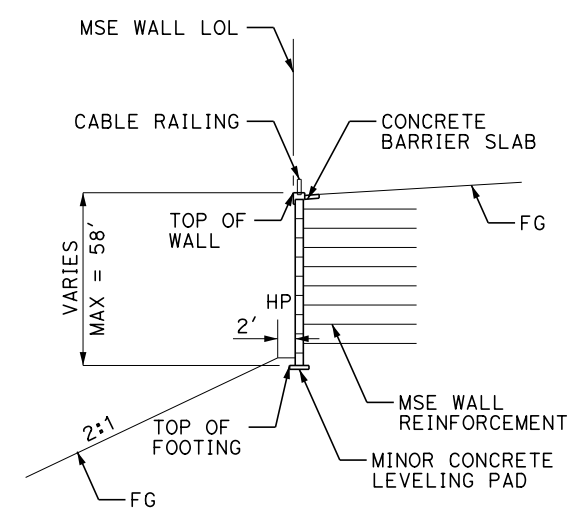
CONTRACT NO.
HSR13-44
DRAWING NO.
ST-G1105
SCALE
AS SHOWN
SHEET NO.

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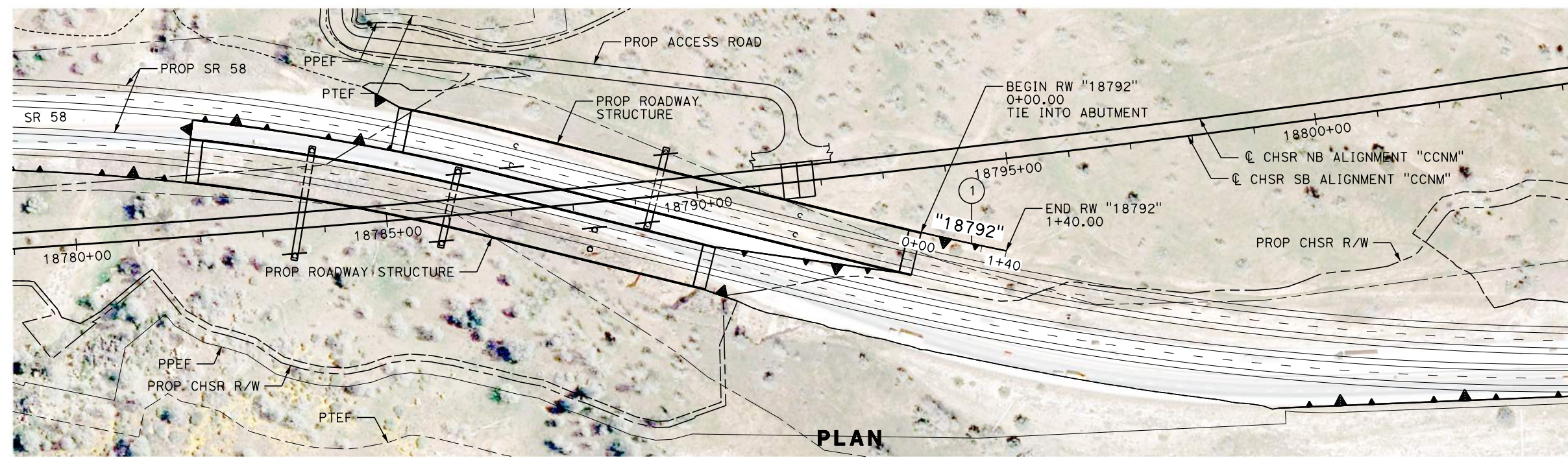


CURVE DATA				
No.	R	Δ	T	L
1	4940.50'	1°37'25"	70.00'	140.00'

PROFILE
"18792"



TYPICAL WALL SECTION



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
DRAWN BY
A. RIVERA
CHECKED BY
S. SMITH
IN CHARGE
G. CAMPBELL
DATE
11/19/2018

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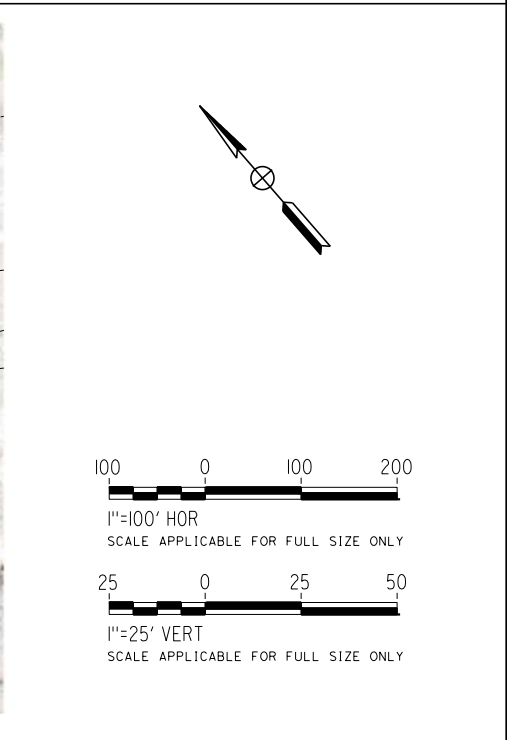
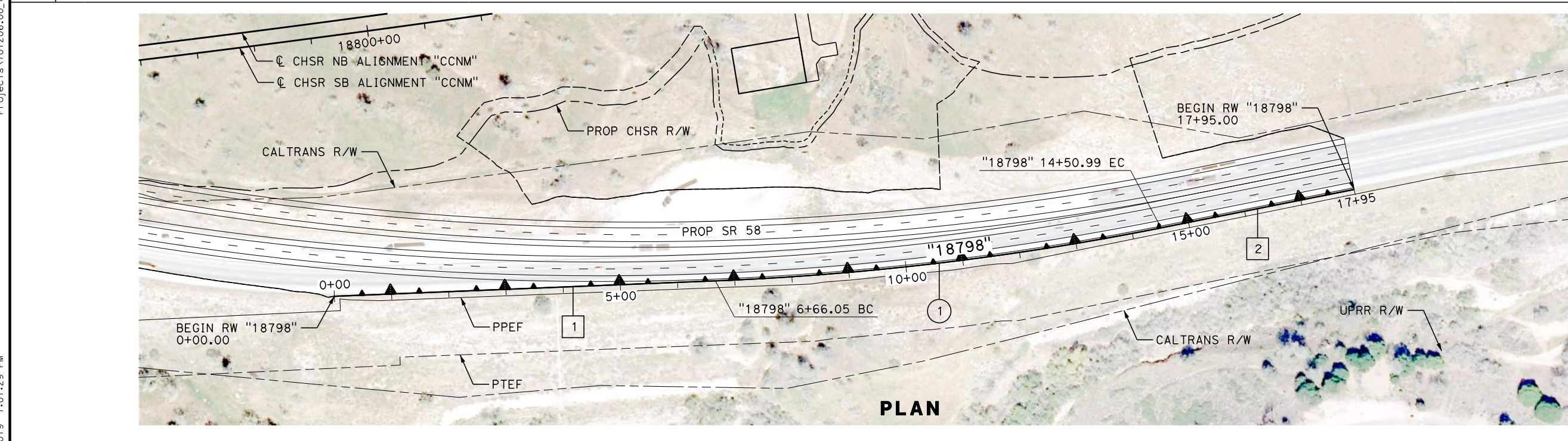
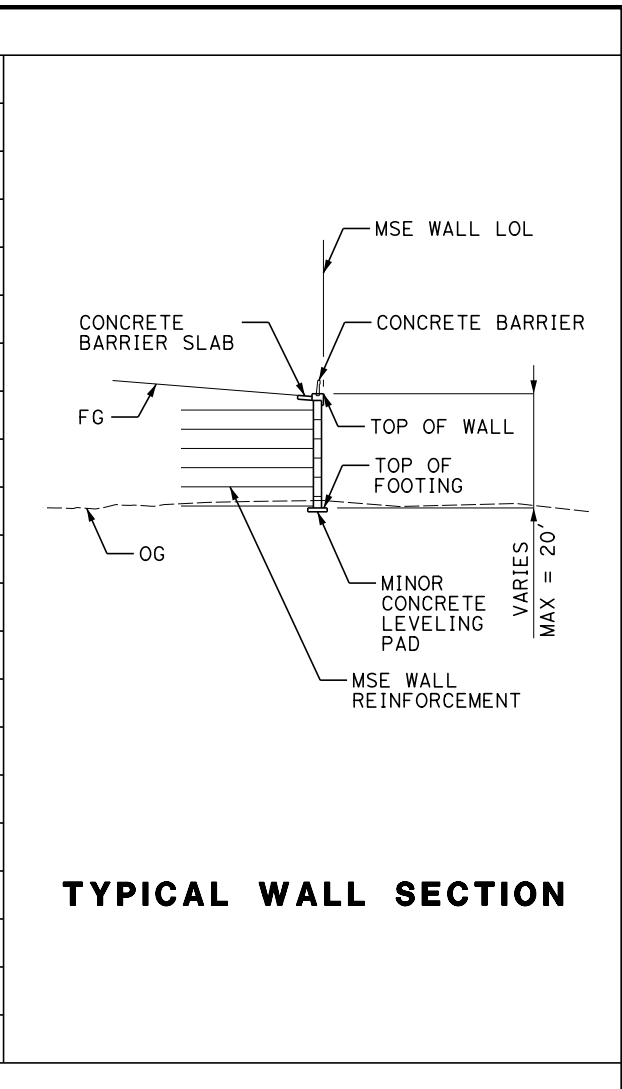
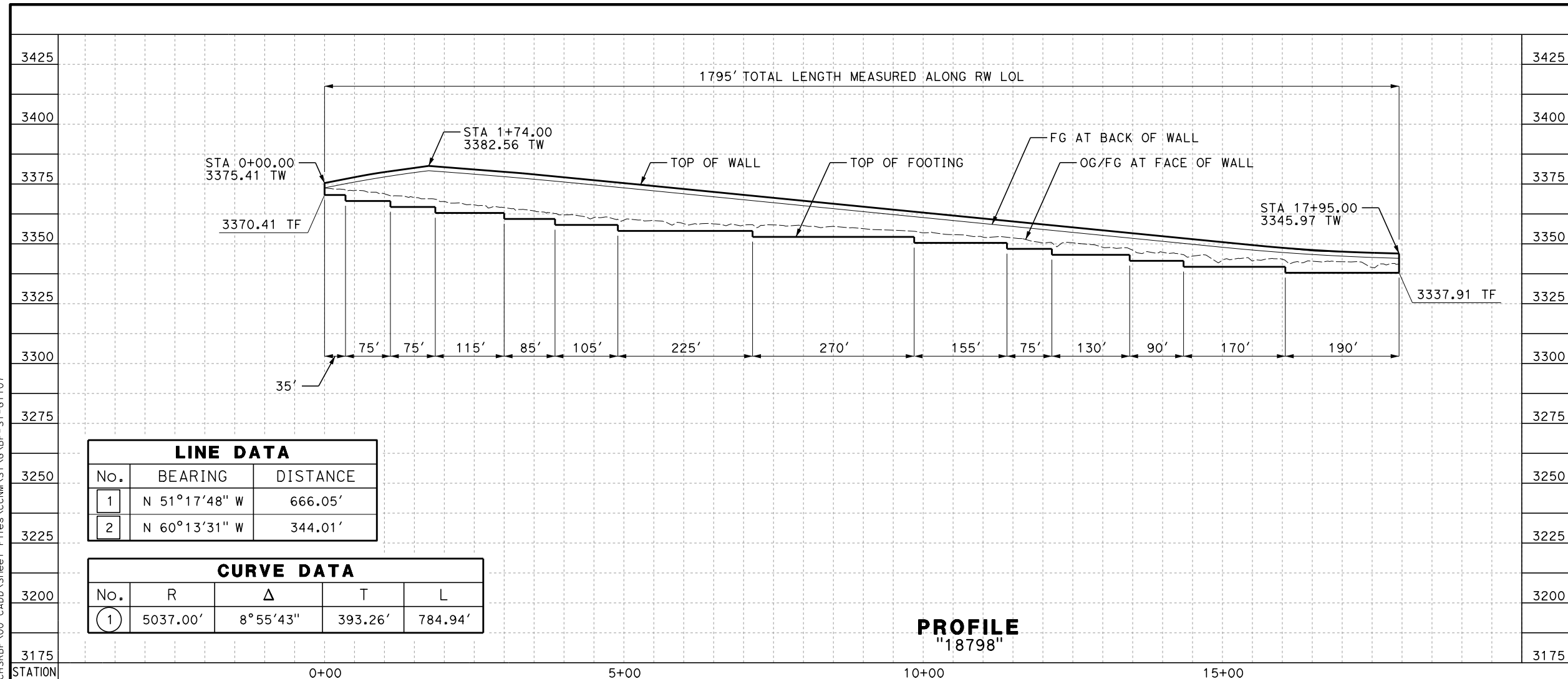


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
CCNM DESIGN OPTION
RETAINING WALL
18792 (STATE ROUTE 58)
PLAN AND PROFILE

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-G1106
SCALE
AS SHOWN
SHEET NO.

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\CCNM\ST\G\BP-ST-G1107

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. RIVERA
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A. RIVERA
CHECKED BY
S. SMITH
IN CHARGE
G. CAMPBELL
DATE
11/19/2018

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
CCNM DESIGN OPTION
RETAINING WALL
STATE ROUTE 58
PLAN AND PROFILE

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-G1107
SCALE
AS SHOWN
SHEET NO.