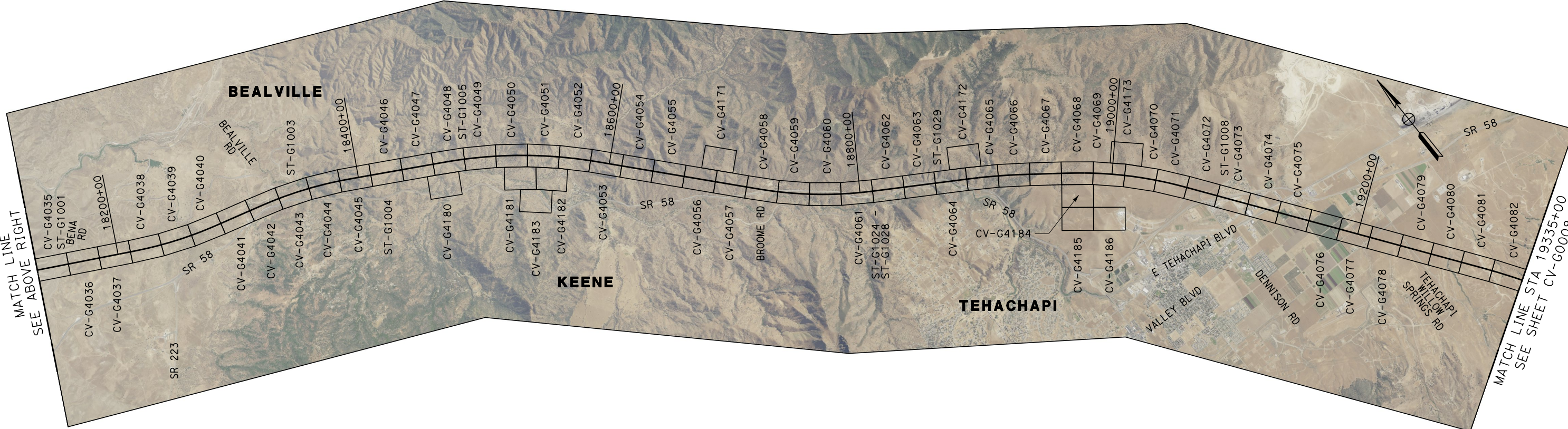
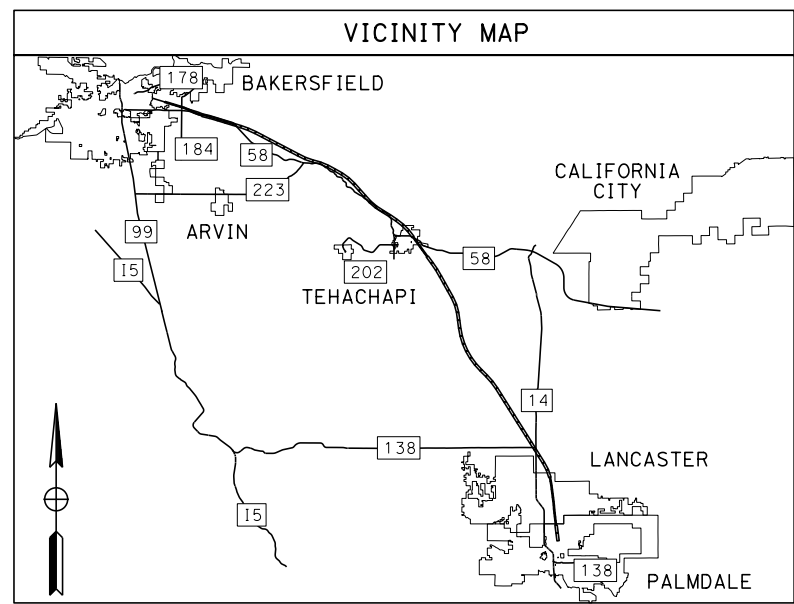


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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
 DRAWN BY
V. CERON
 CHECKED BY
G. CAMPBELL
 IN CHARGE
G. CAMPBELL
 DATE
01/29/2021

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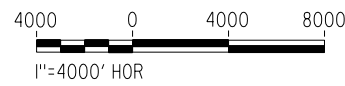
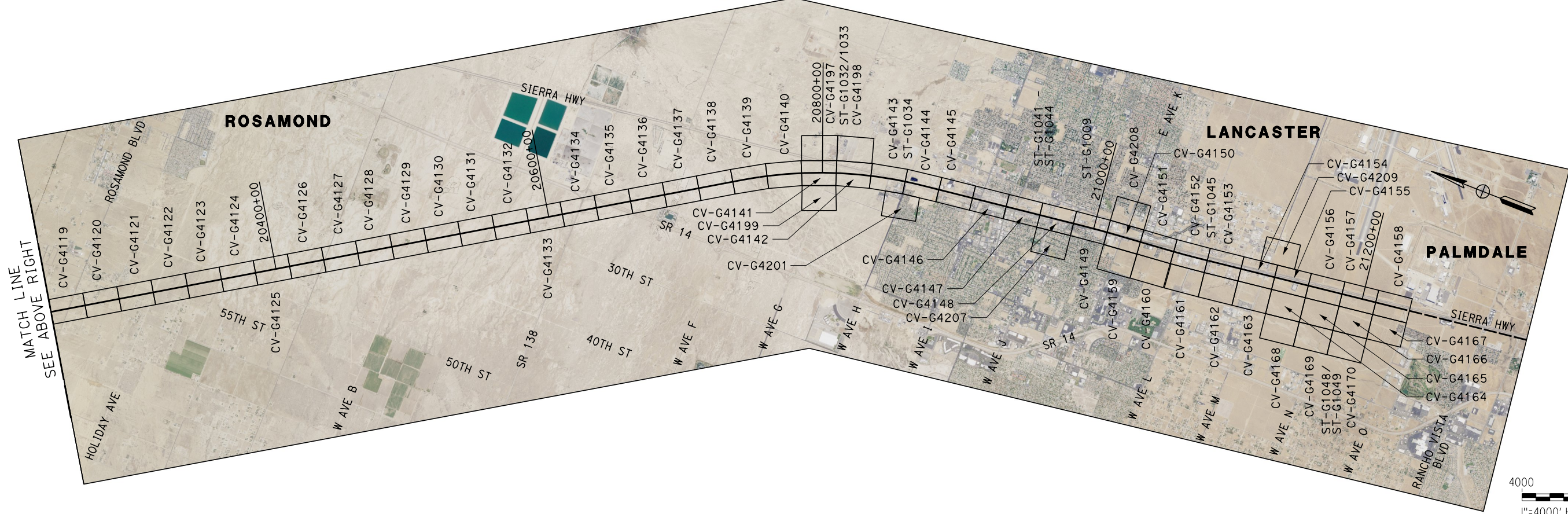
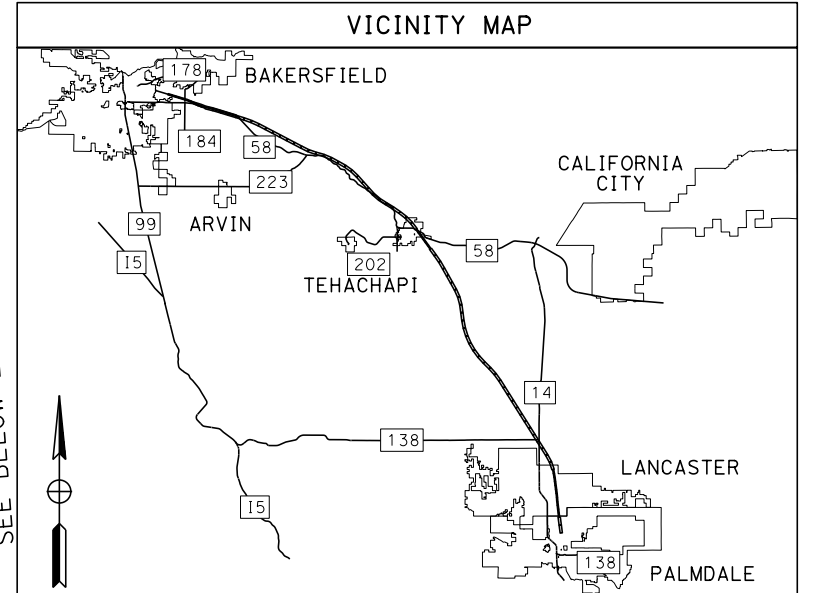
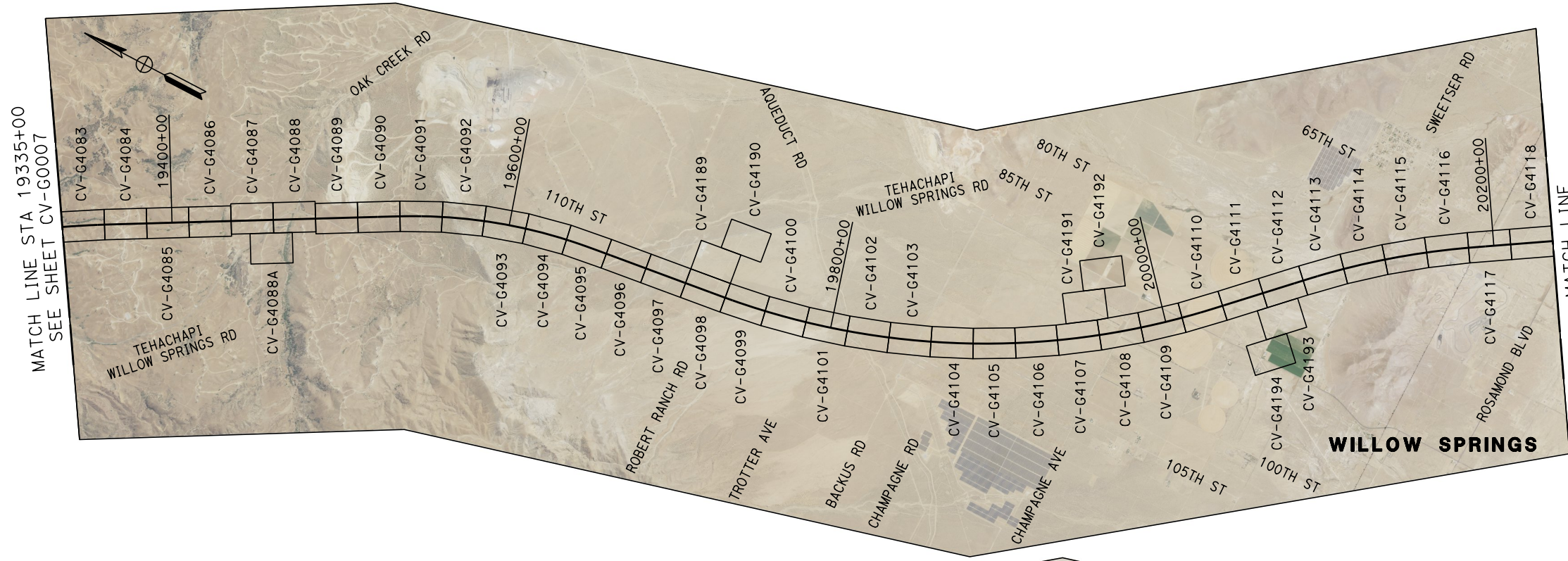
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CONSTRUCTION



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 ALTERNATIVE 1
 GENERAL
 KEY MAP
 SHEET 1 OF 2

CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-G0007
 SCALE
AS SHOWN
 SHEET NO.
398

ALTERNATIVE 1



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DESIGNED BY
G. YAMANAKA

DRAWN BY
V. CERON

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G. CAMPBELL

IN CHARGE
G. CAMPBELL

DATE
01/29/2021

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

ALTERNATIVE 1
GENERAL
KEY MAP
SHEET 2 OF 2

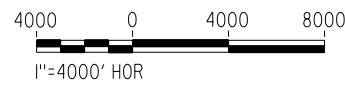
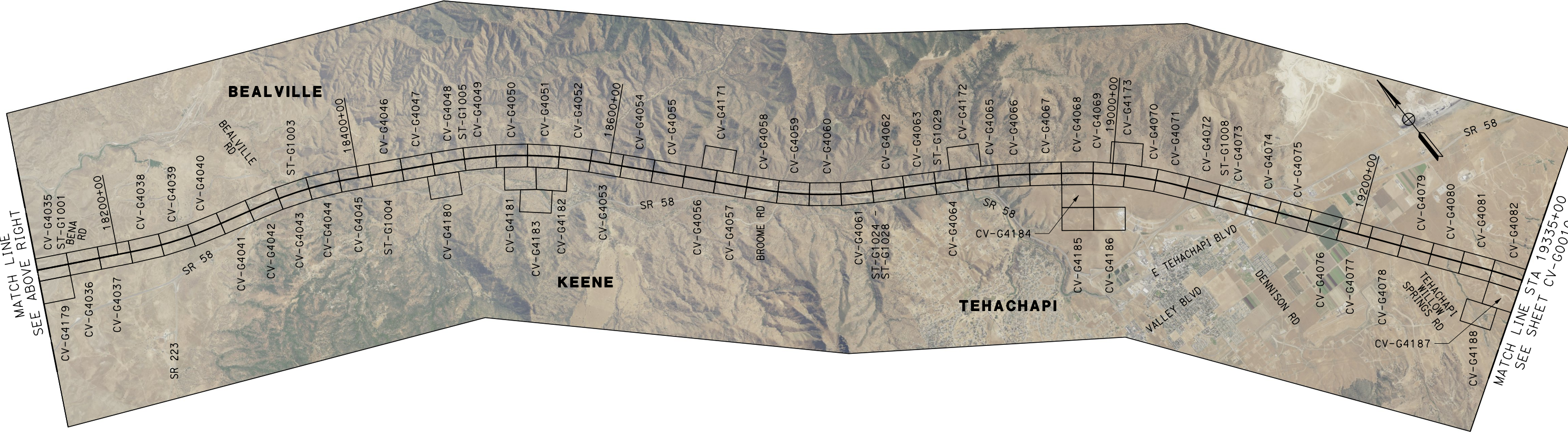
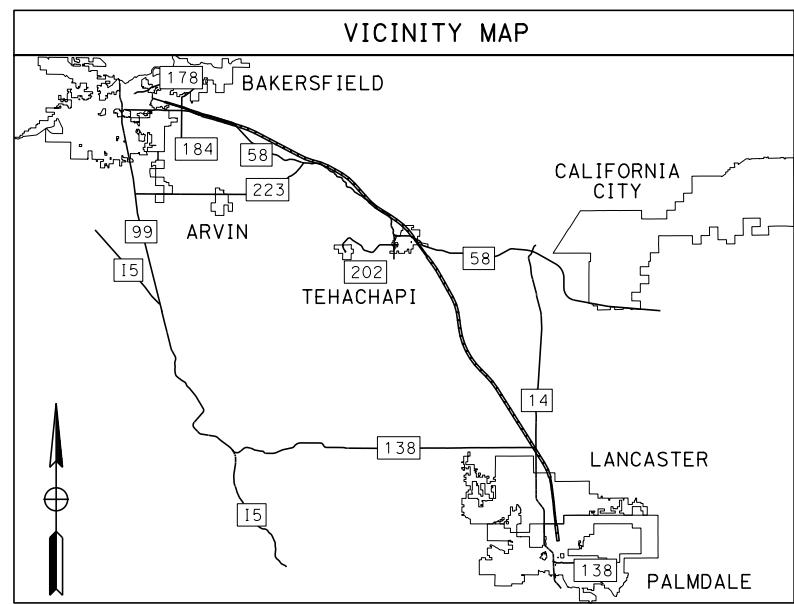
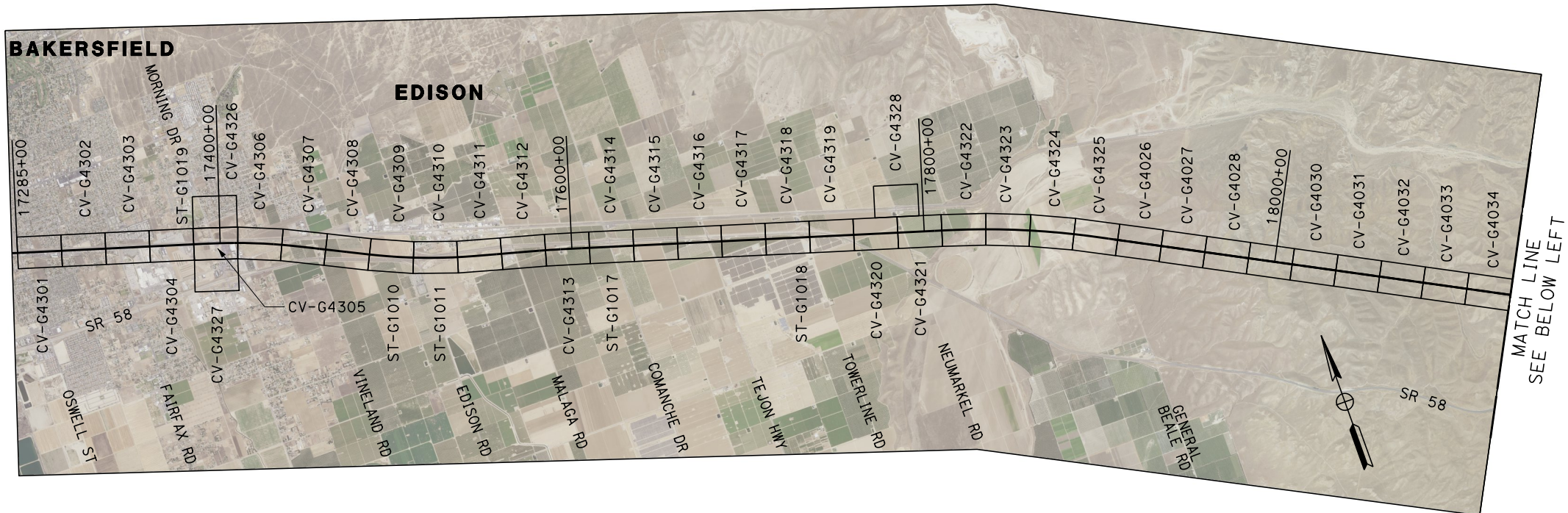
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HSR13-44

DRAWING NO.
CV-G0008

SCALE
AS SHOWN

SHEET NO.
399

ALTERNATIVE 2



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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V. CERON
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G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

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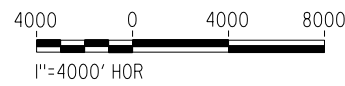
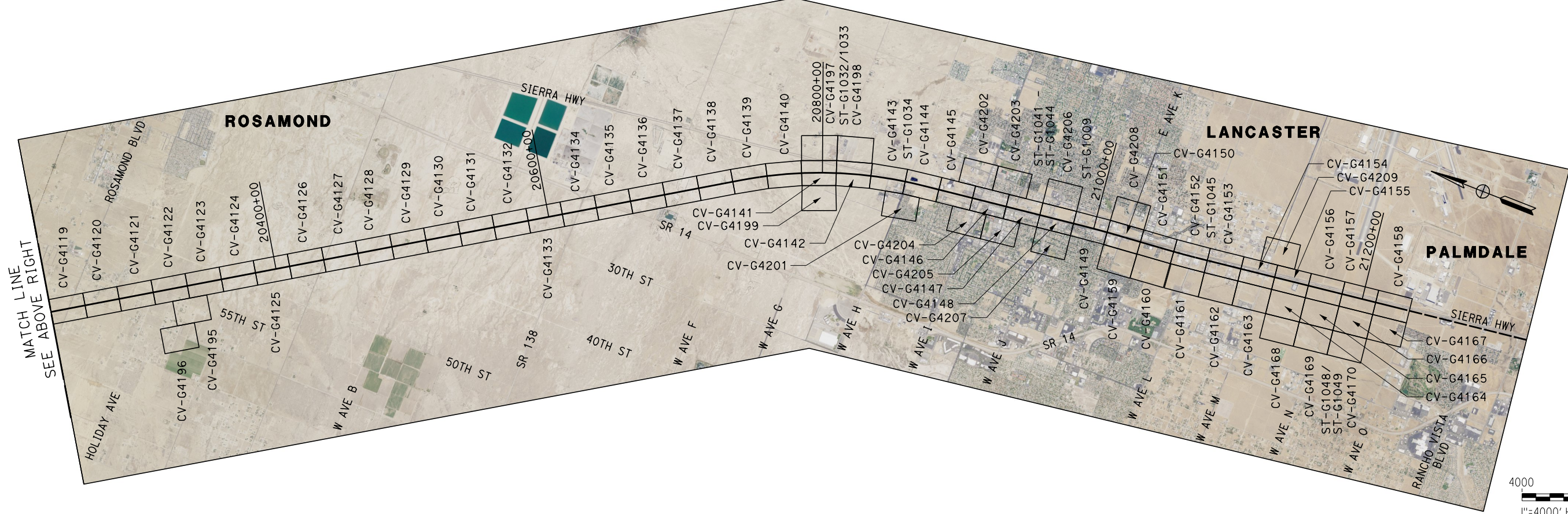
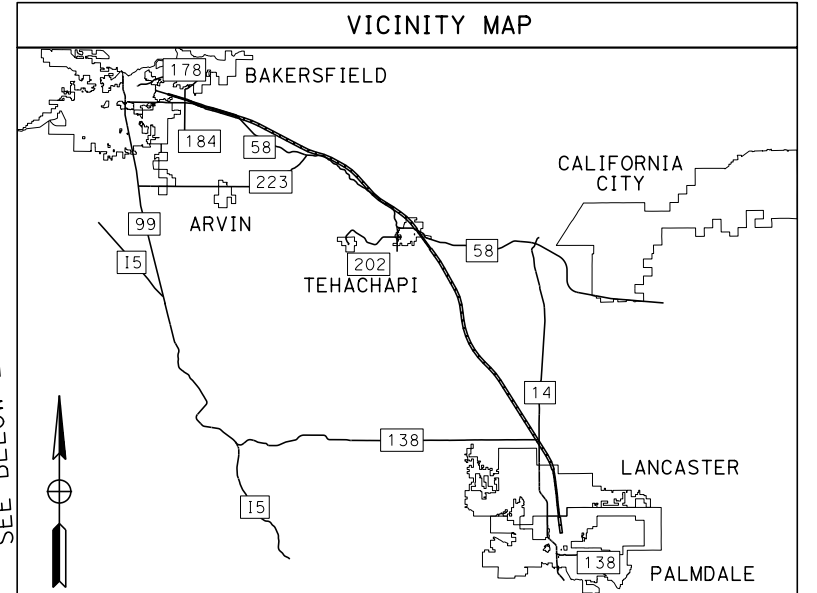
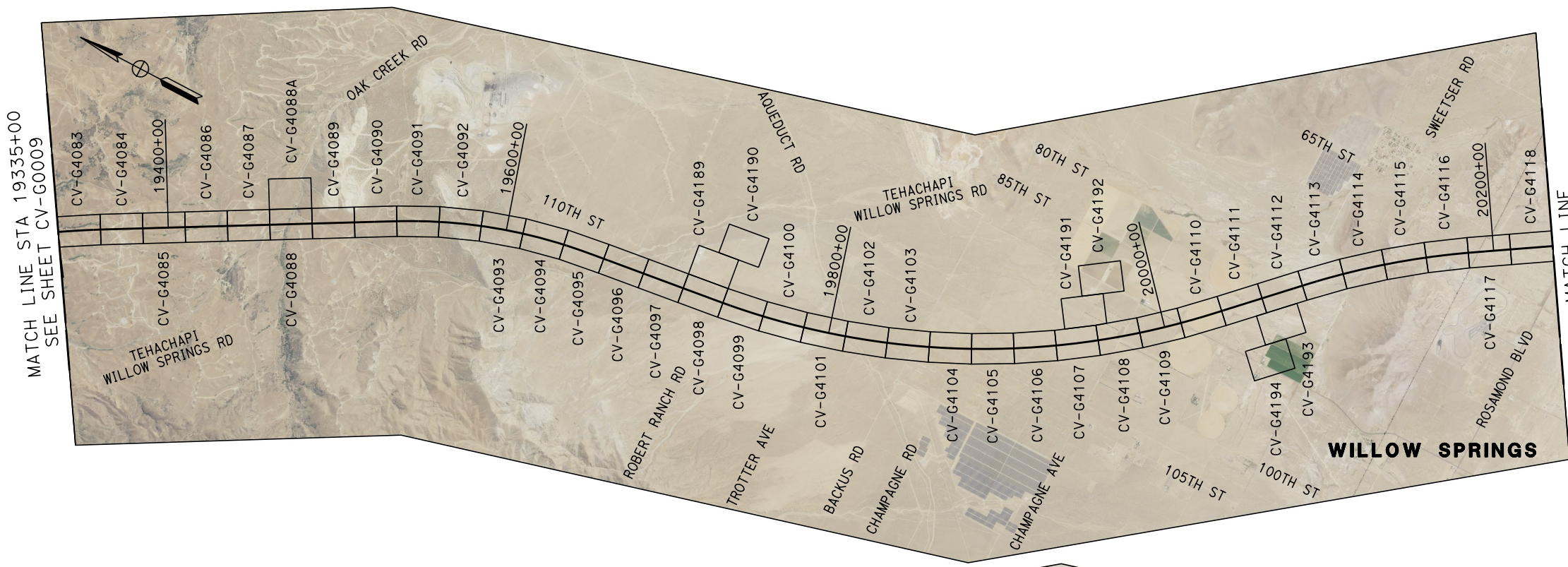


CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

ALTERNATIVE 2
GENERAL
KEY MAP
SHEET 1 OF 2

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G0009
SCALE
AS SHOWN
SHEET NO.
400

ALTERNATIVE 2



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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CHECKED BY
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IN CHARGE
G. CAMPBELL
DATE
01/29/2021

RECORD SET
PEPD
SUBMITTAL

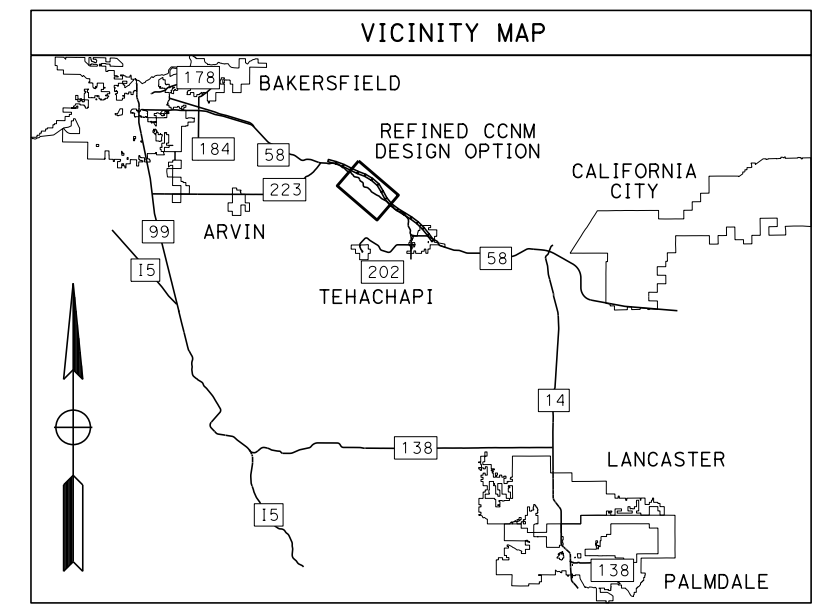
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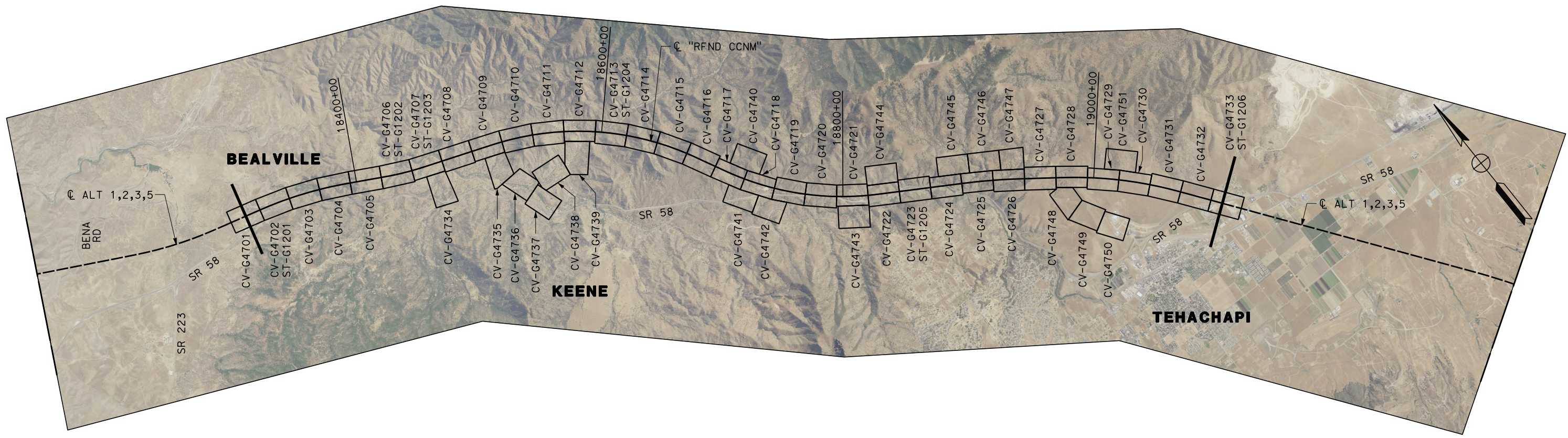
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

ALTERNATIVE 2
GENERAL
KEY MAP
SHEET 2 OF 2

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G0010
SCALE
AS SHOWN
SHEET NO.
401



REFINED CCNM DESIGN OPTION



REV	DATE	BY	CHK	APP	DESCRIPTION

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

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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
REFINED CCNM DESIGN OPTION
GRADING, DRAINAGE, AND RETAINING WALLS
KEY MAP


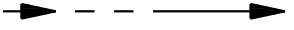
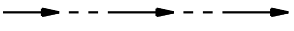
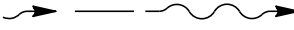


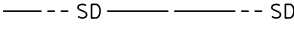
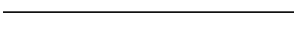




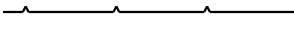
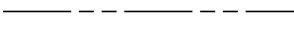
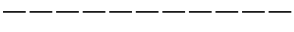
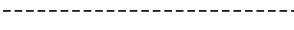


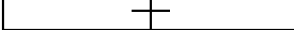


CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G0102
SCALE
AS SHOWN
SHEET NO.
402

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12/22/2020 12:56:24 AM

Glenn.Yamanaka@tylin.com

LEGEND

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

ABBREVIATIONS

- CHSR NB ☉ CALIFORNIA HIGH SPEED RAIL NORTH BOUND CENTERLINE
- CHSR SB ☉ CALIFORNIA HIGH SPEED RAIL SOUTH BOUND CENTERLINE
- FG FINISHED GROUND
- FL FLOW LINE
- HW HEADWALL
- LMF LIGHT MAINTENANCE FACILITY
- MOIF MAINTENANCE OF INFRASTRUCTURE FACILITY
- MOIS MAINTENANCE OF INFRASTRUCTURE SIDING
- OG ORIGINAL GROUND
- PPEF PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
- PTEF PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT
- RCB REINFORCED CONCRETE BOX
- RCP REINFORCED CONCRETE PIPE
- RSP ROCK SLOPE PROTECTION
- R/W RIGHT OF WAY
- RW RETAINING WALL
- S SLOPE
- SD STORM DRAIN
- STA STATION

GENERAL NOTES

NOTES

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

PROFILE NOTES

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

WATER QUALITY NOTES

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

ROADWAY UNDERCROSSING PUMP STATION NOTE

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

UTILITY NOTES

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY G. YAMANAKA
DRAWN BY V. CERON
CHECKED BY G. CAMPBELL
IN CHARGE G. CAMPBELL
DATE 01/29/2021

**RECORD SET
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SUBMITTAL**

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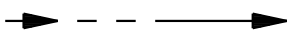
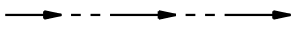
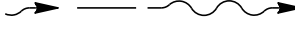

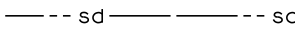
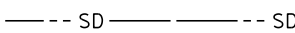

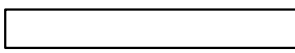
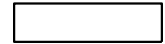


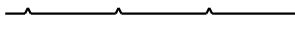
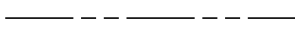
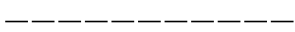
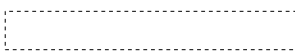
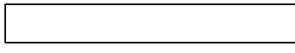
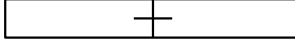

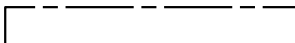


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 1,2,3,5
GENERAL
LEGEND, ABBREVIATIONS, AND GENERAL NOTES

CONTRACT NO. HSR13-44
DRAWING NO. CV-G0015
SCALE NO SCALE
SHEET NO. 403

LEGEND

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

GENERAL NOTES

NOTES

- CULVERT STATION DESIGNATED AT THE INTERSECTION OF THE CHSR SB CONTROL LINE STATION AND THE CULVERT CENTERLINE.
- RSP, BASIN, AND DITCH LOCATIONS ARE SCHEMATIC. GRADING TO BE PROVIDED DURING FINAL ENGINEERING.
- PROPOSED FINISHED GRADING IS NOT REFLECTED NEAR TUNNEL PORTALS, BRIDGE CONES, TRACK FACILITIES, AND ROADS. GRADING TO BE PROVIDED DURING FINAL ENGINEERING.
- SLOPE FILL TO BE USED, AS NEEDED, TO ALLOW FOR POSITIVE ONSITE DITCH DRAINAGE ABOVE THE PROPOSED OFFSITE DRAINAGE CULVERTS.
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- REFER TO ENGINEERING TECHNICAL MEMO 2.6.5 FOR HYDRAULIC AND HYDROLOGY DESIGN GUIDELINES.
- RSP TO BE PLACED ALONG THE EDGE OF ALL ACCESS ROADS WITHIN FLOODPLAIN BOUNDARIES.

PROFILE NOTES

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

WATER QUALITY NOTES

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

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UTILITY NOTES

- IT IS ASSUMED THAT ALL EXISTING DRAINAGE UTILITIES THAT ARE LOCATED WITHIN THE HSR TRACK GRADING LIMITS WILL BE REMOVED AND ALL EXISTING DRAINAGE UTILITIES THAT ARE LOCATED WITHIN ROADWAY OR ACCESS ROAD GRADING LIMITS WILL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED ON PLANS.
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REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

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

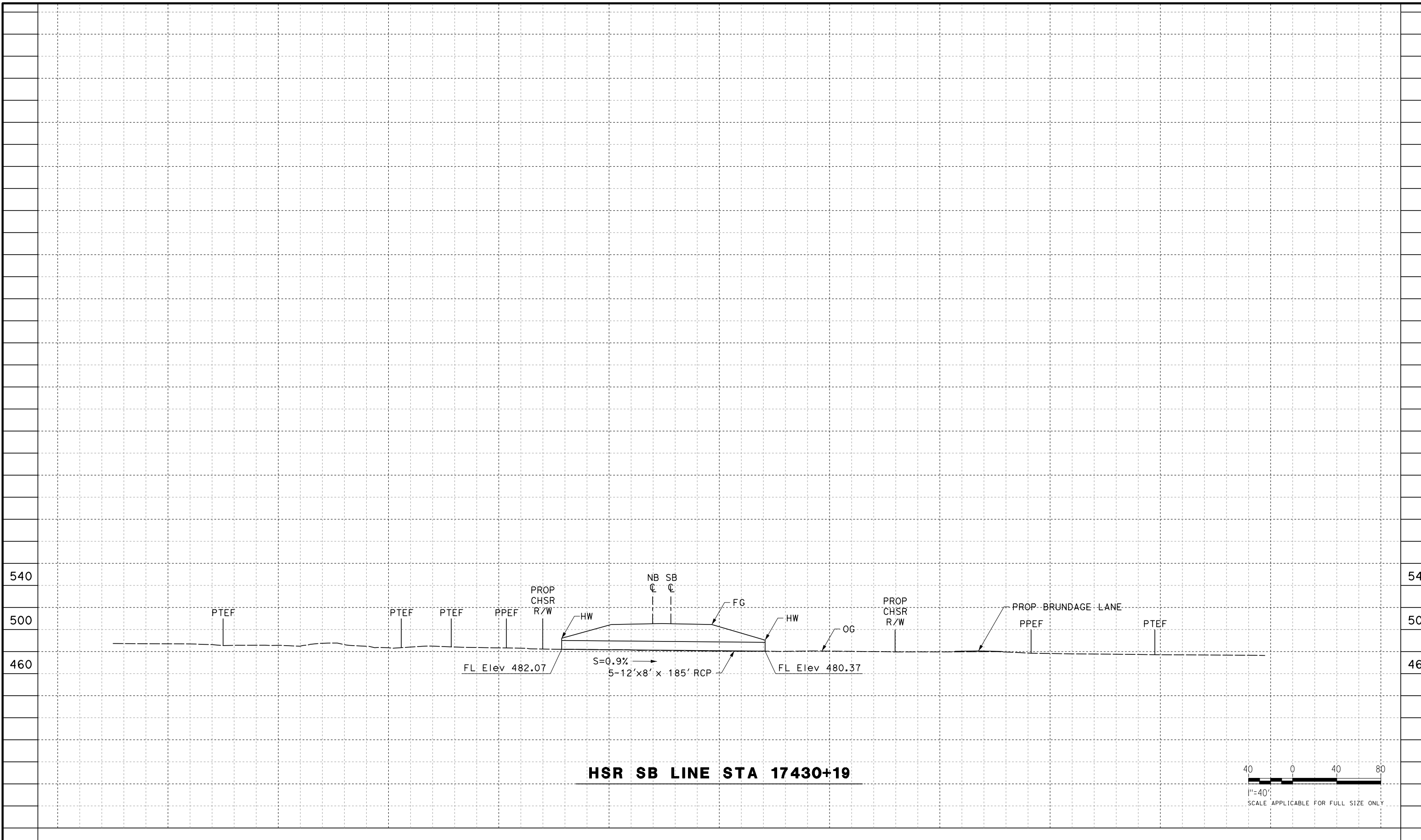
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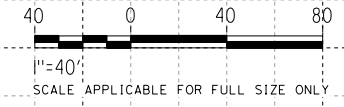
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1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 17430+19



REV	DATE	BY	CHK	APP	DESCRIPTION

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

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

ALTERNATIVE 2
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 17430

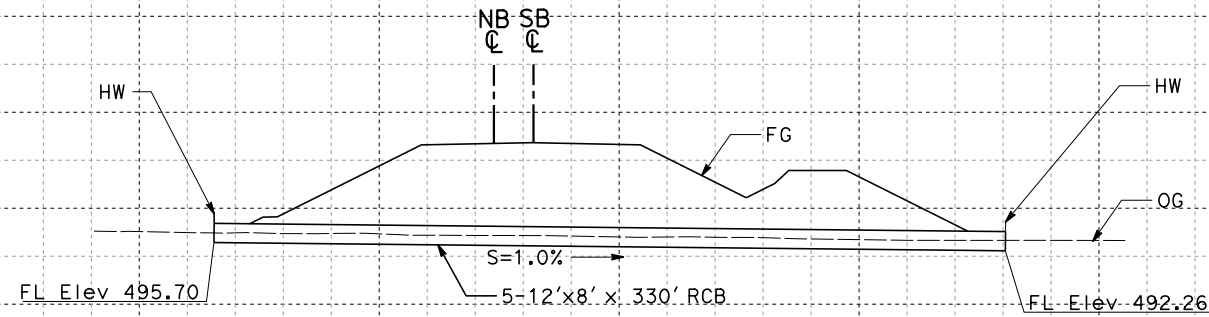
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HSR13-44
DRAWING NO.
CV-G1101
SCALE
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SHEET NO.
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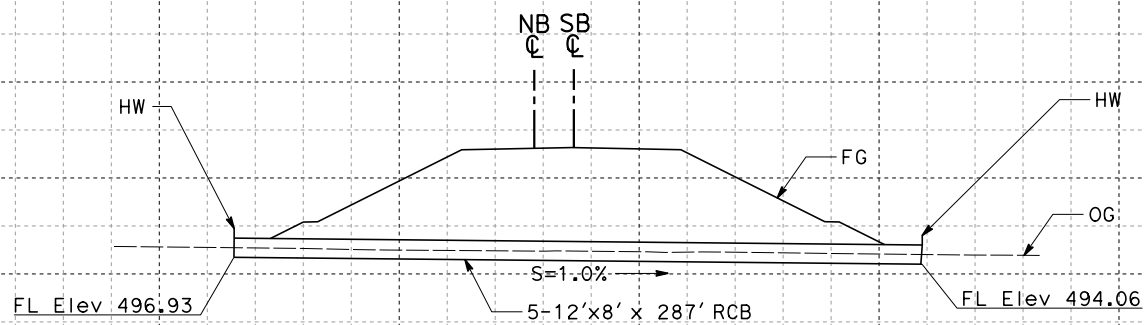
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1/13/2021

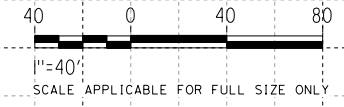
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 17457+85



HSR SB LINE STA 17463+32



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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DATE
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 2
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 17458, 17463

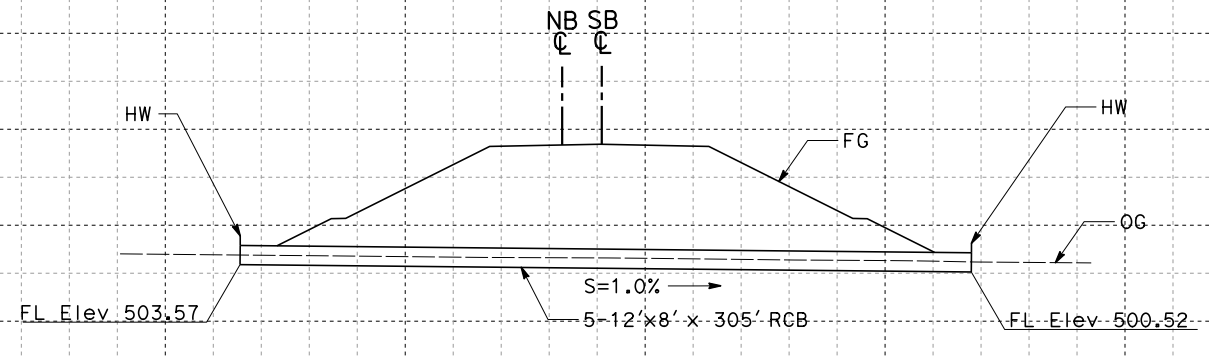
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DRAWING NO.
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SCALE
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SHEET NO.
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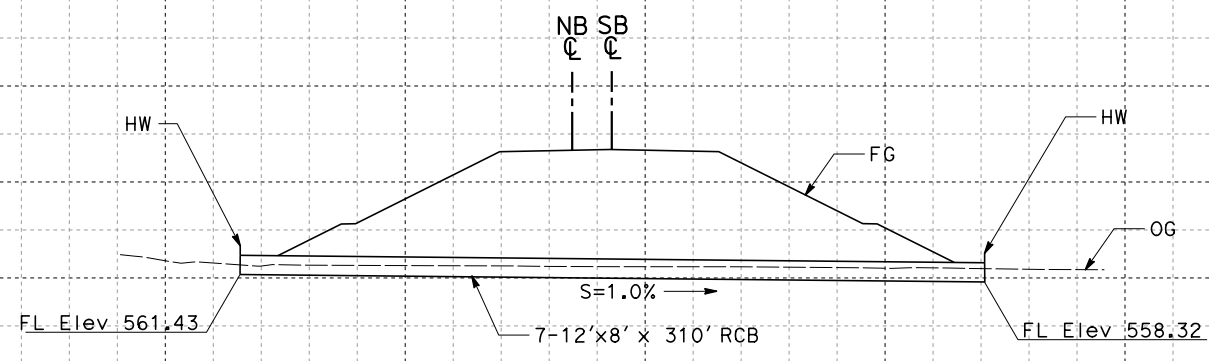
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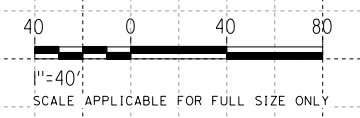
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 17475+94



HSR SB LINE STA 17547+58



REV	DATE	BY	CHK	APP	DESCRIPTION

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

ALTERNATIVE 2
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 17476, 17548

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1102

SCALE
AS SHOWN

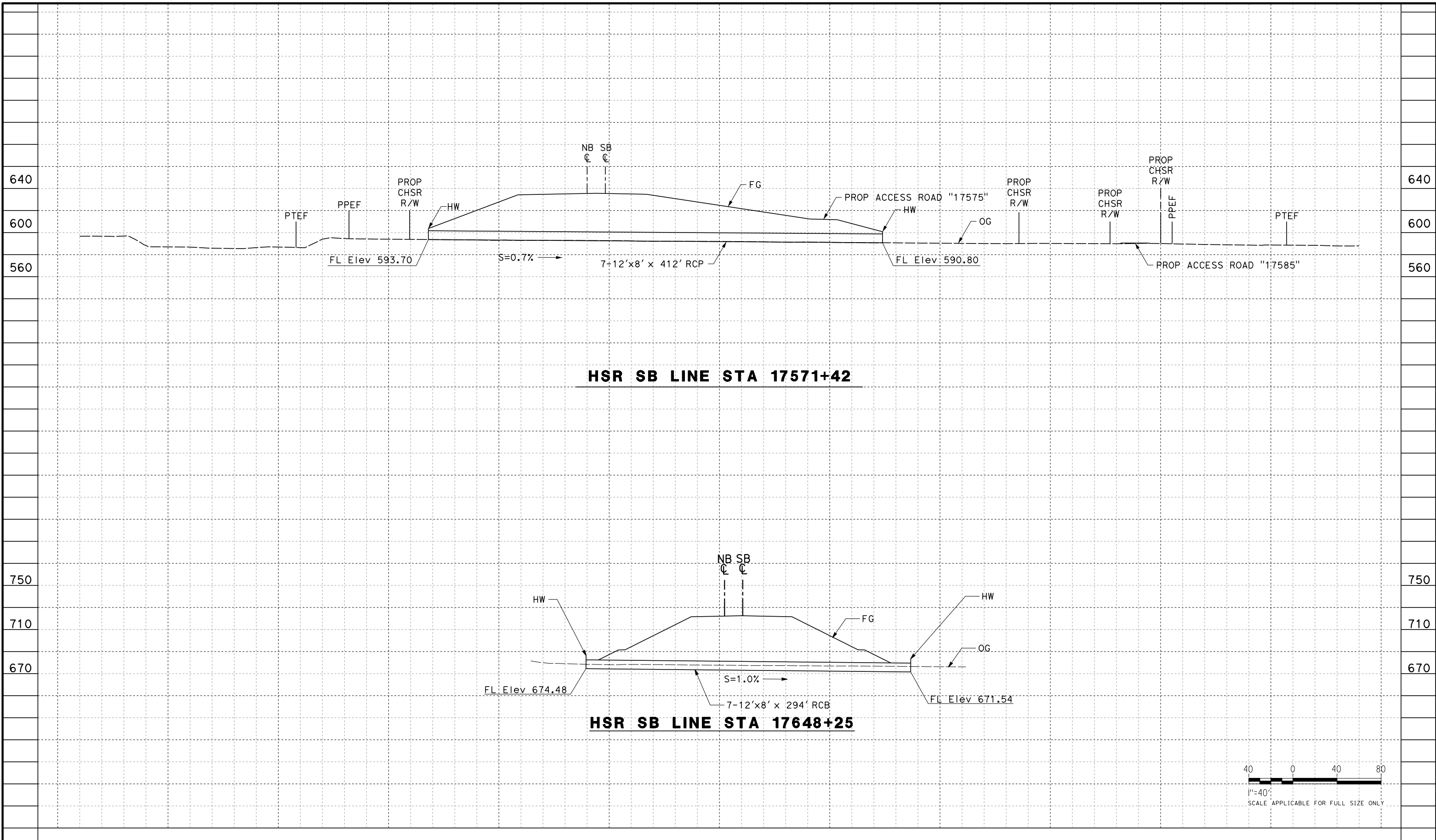
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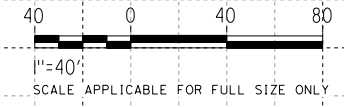
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Glenn.Yamanaka@tylin.com



HSR SB LINE STA 17571+42

HSR SB LINE STA 17648+25



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G. YAMANAKA

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

ALTERNATIVE 2
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 17571, 17648

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1103

SCALE
AS SHOWN

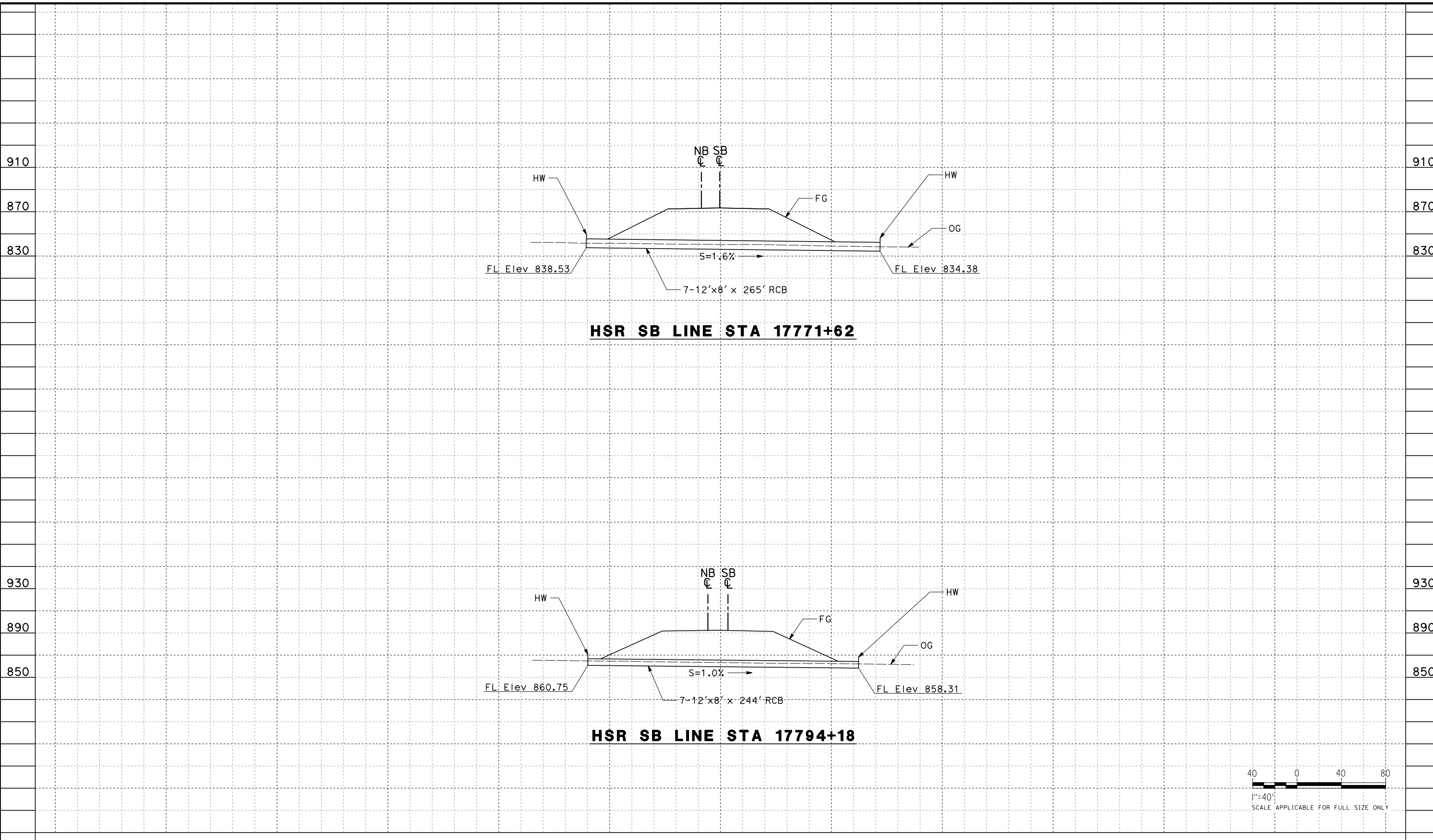
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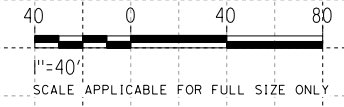
1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 17771+62

HSR SB LINE STA 17794+18



REV	DATE	BY	CHK	APP	DESCRIPTION

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

ALTERNATIVE 2
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 17772, 17794

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1104

SCALE
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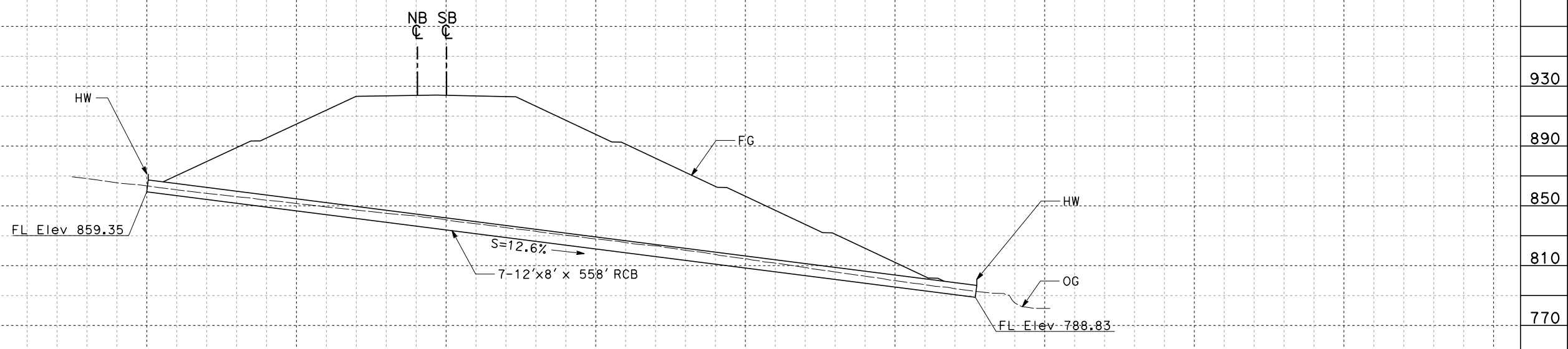
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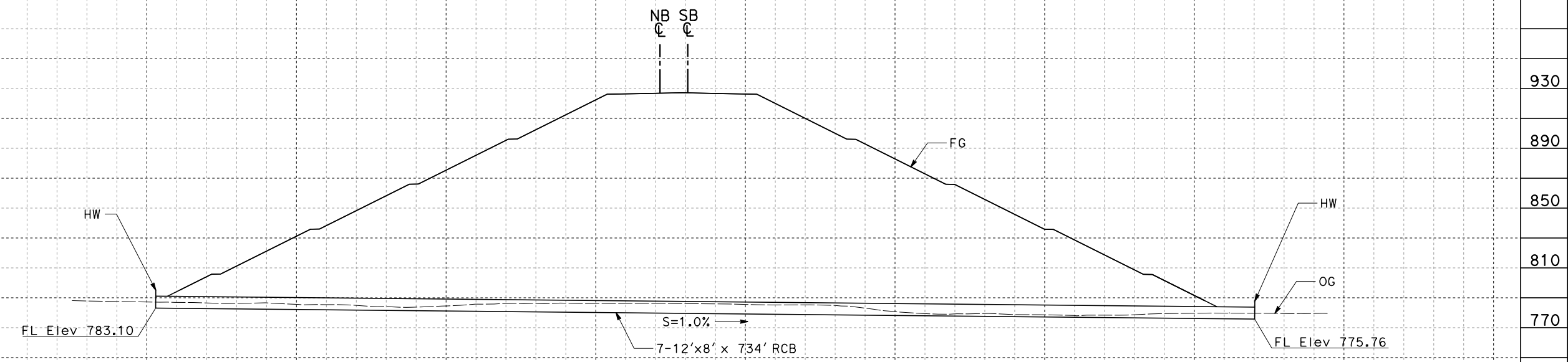
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1/13/2021

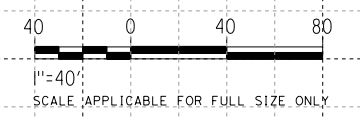
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 17829+12



HSR SB LINE STA 17833+25

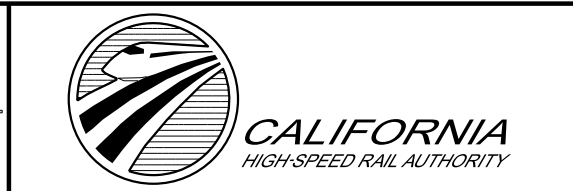


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DESIGNED BY
G. YAMANAKA
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G. CAMPBELL
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 2
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 17829, 17833

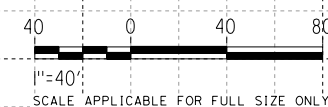
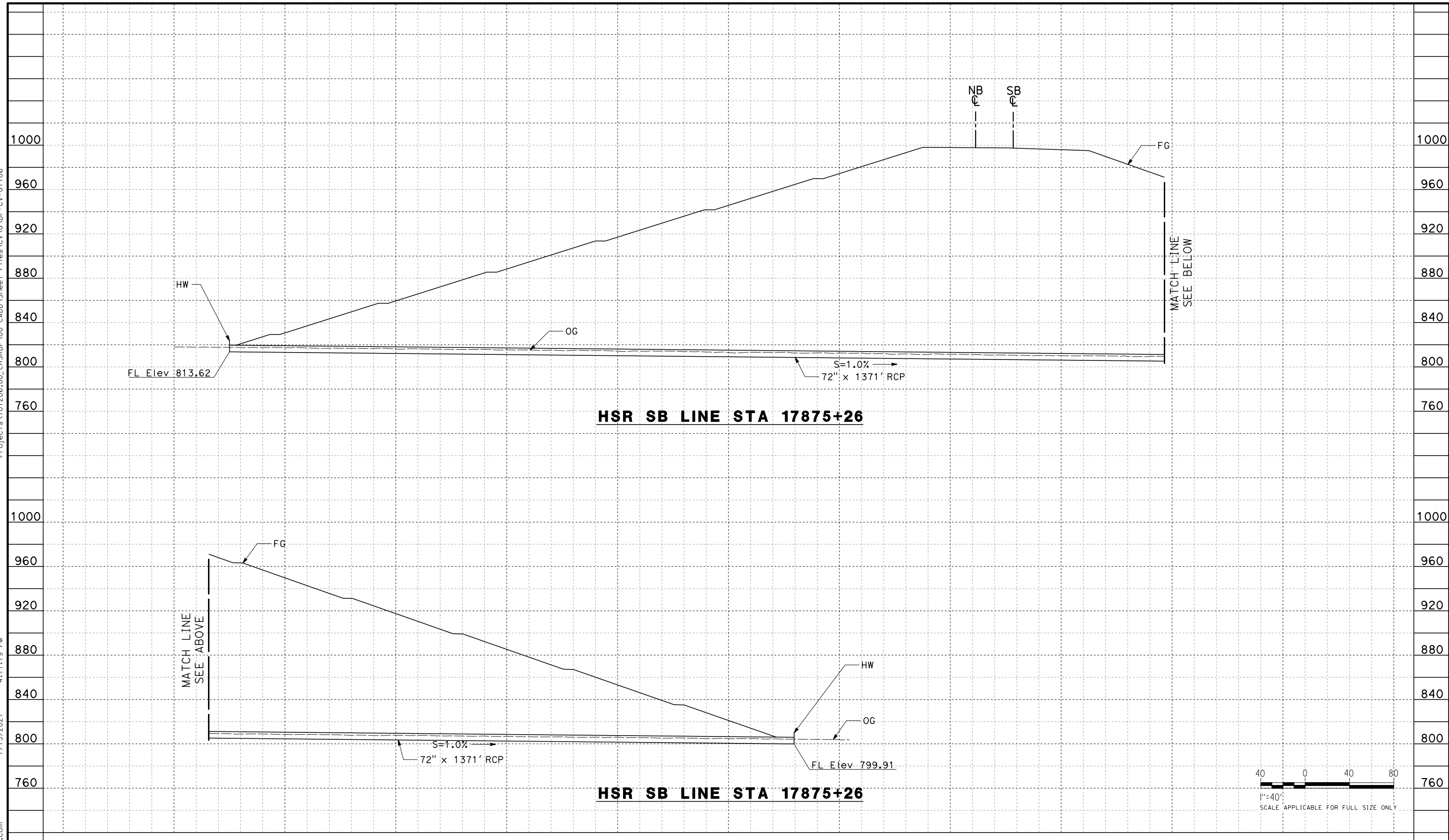
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SHEET NO.
410

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G. YAMANAKA
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 2
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 17875

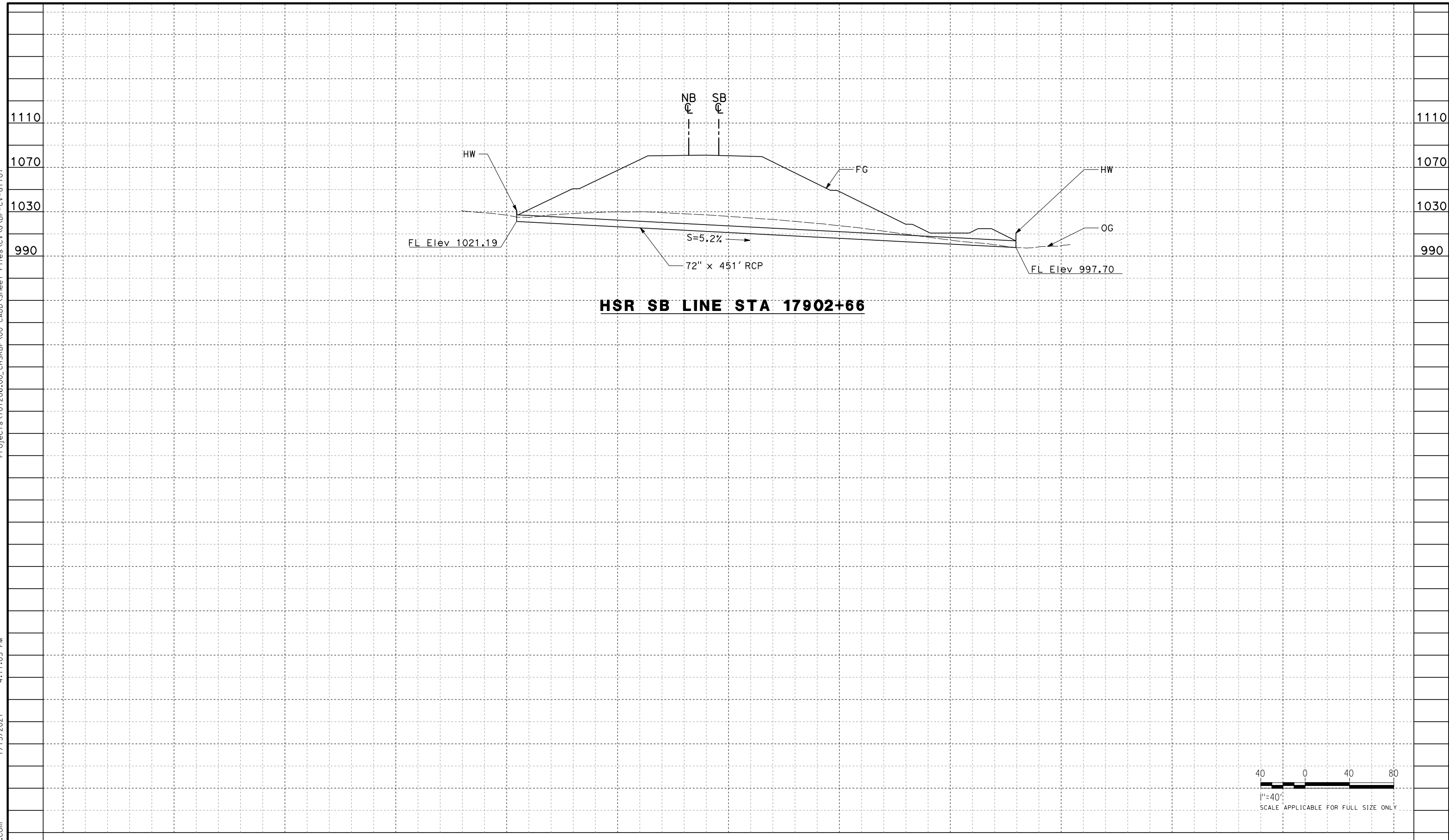
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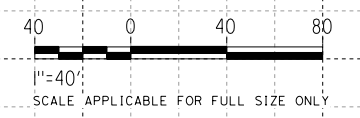
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HSR SB LINE STA 17902+66



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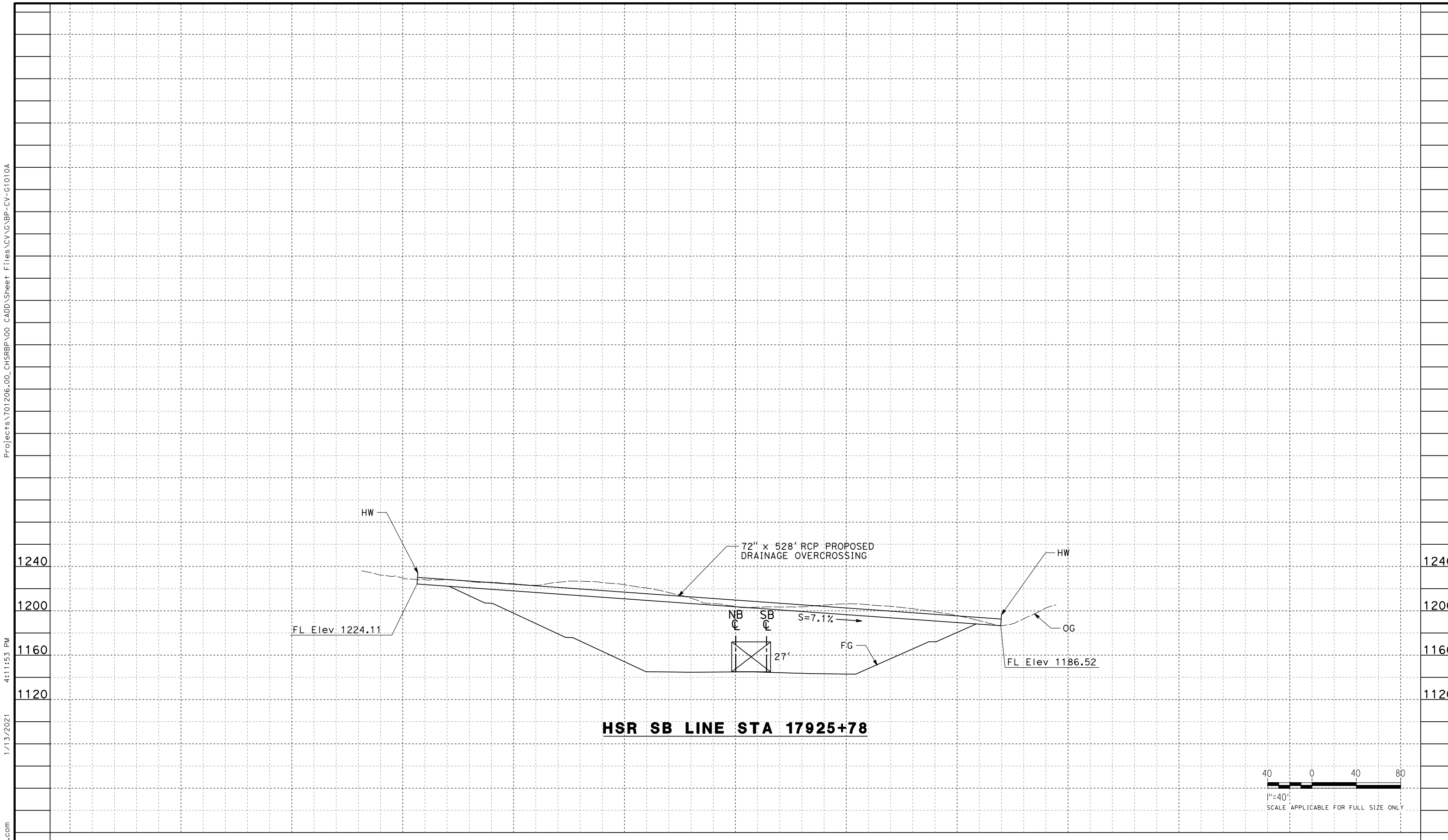
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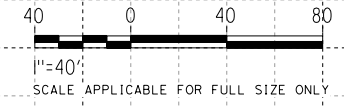
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 2
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 17903

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G1107
SCALE
AS SHOWN
SHEET NO.
412



HSR SB LINE STA 17925+78



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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A. DEL CASTILLO
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G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 17926

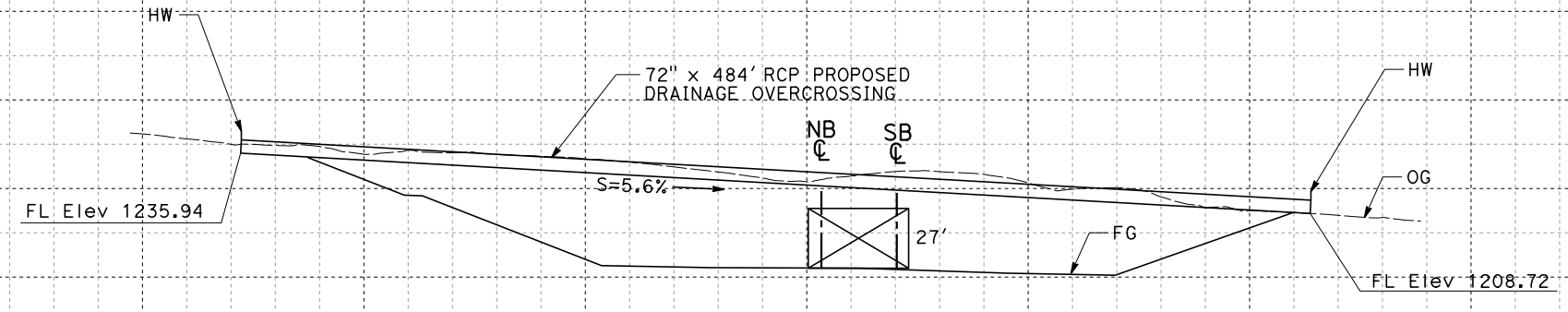
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SCALE
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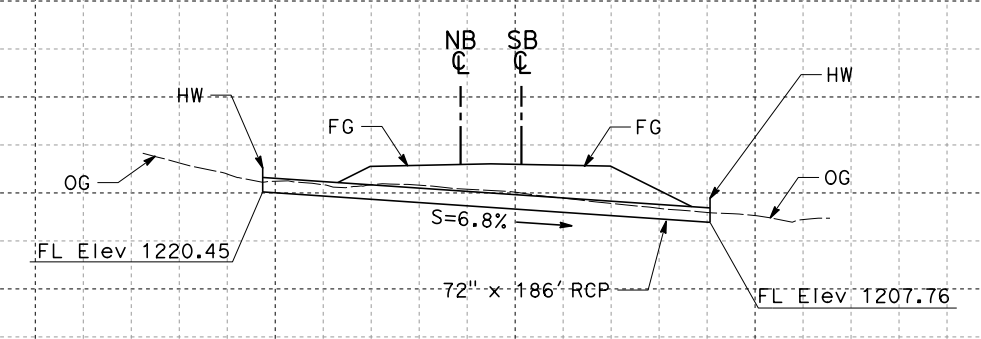
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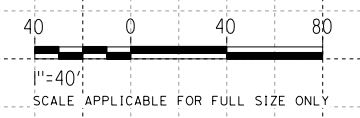
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 17940+07



HSR SB LINE STA 17956+64



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA

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G. CAMPBELL

DATE
01/29/2021

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CONSTRUCTION**



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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 17940, 17957

CONTRACT NO.
HSR13-44

DRAWING NO.
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SCALE
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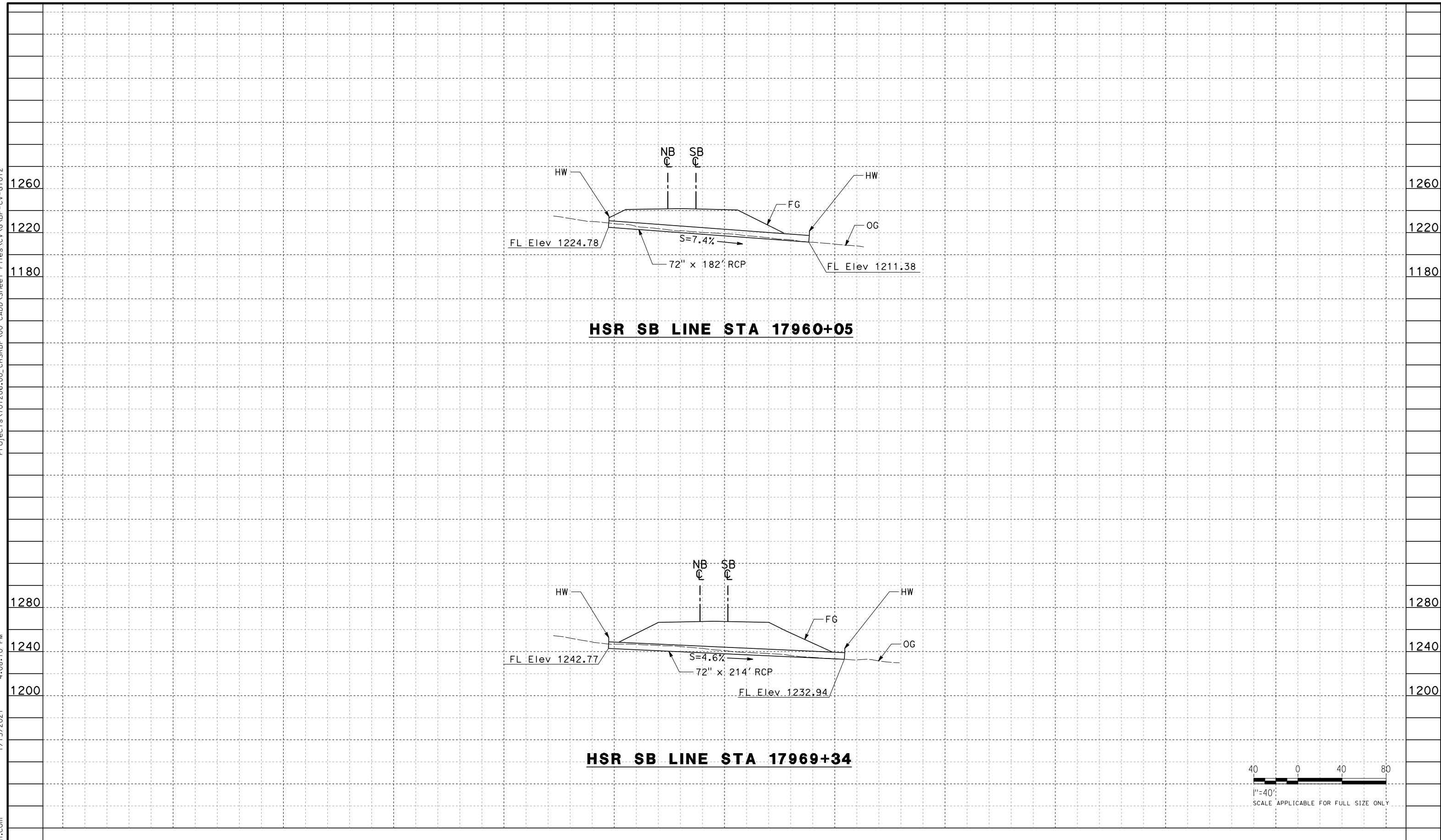
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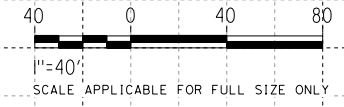
1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 17960+05

HSR SB LINE STA 17969+34



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G. CAMPBELL
DATE
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 17960, 17969

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1012

SCALE
AS SHOWN

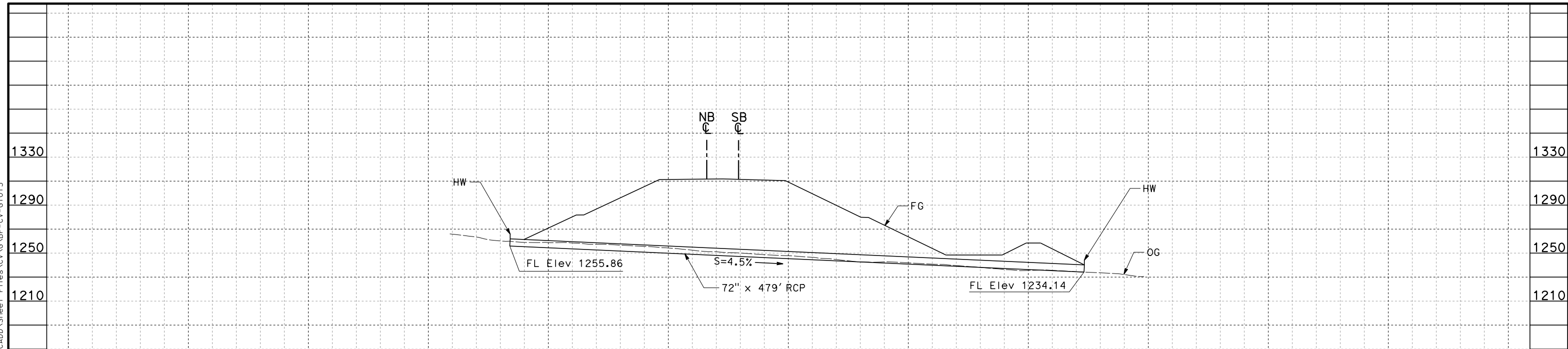
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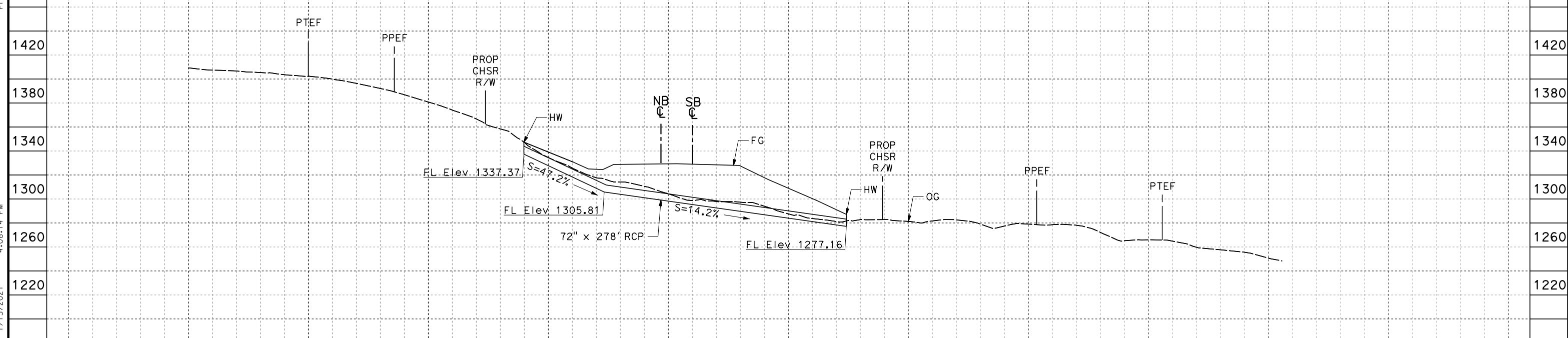
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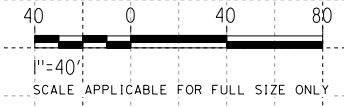
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 17985+15



HSR SB LINE STA 17991+42



REV	DATE	BY	CHK	APP	DESCRIPTION

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G. YAMANAKA
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 17985, 17991

CONTRACT NO.
HSR13-44

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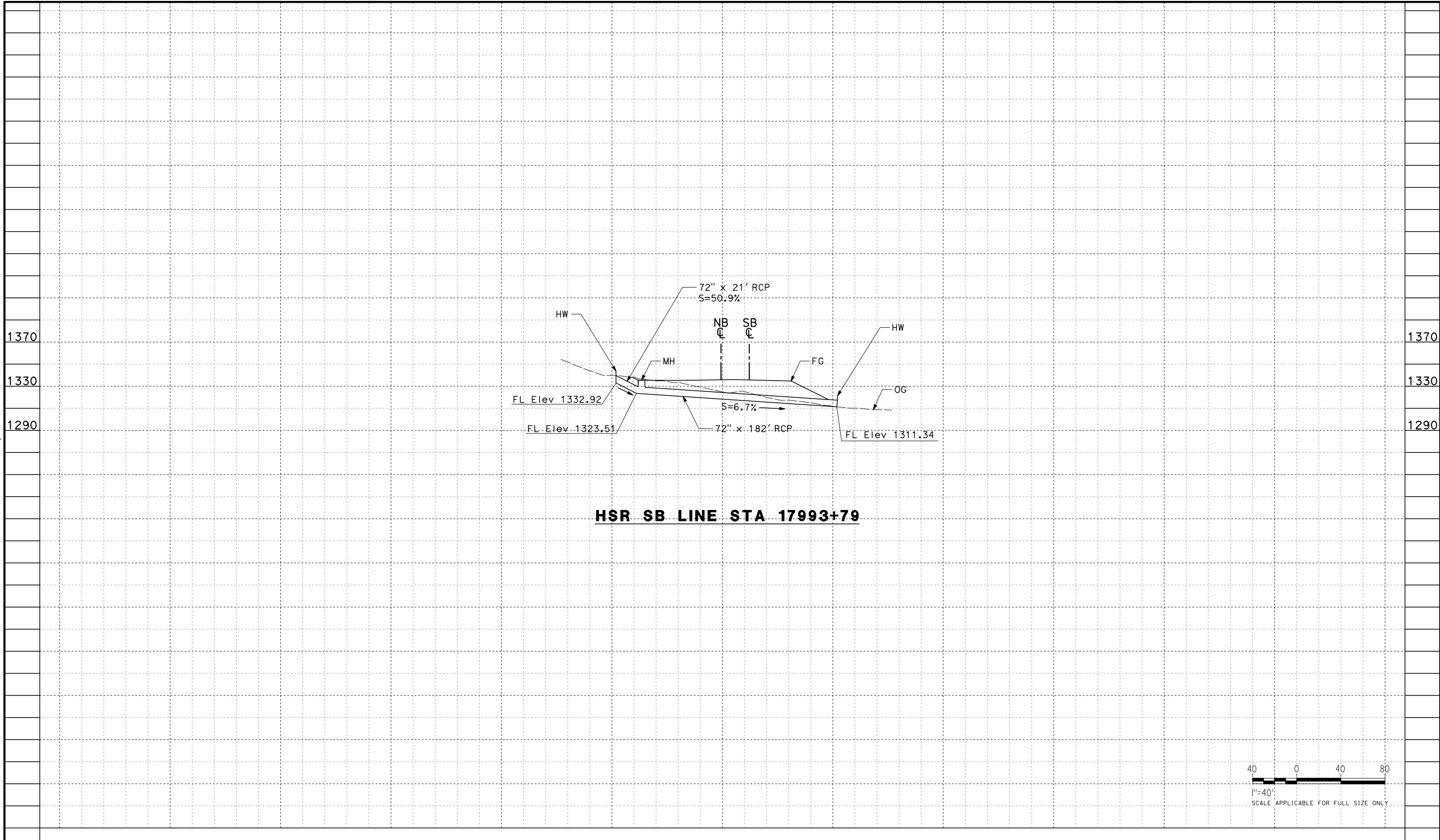
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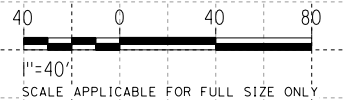
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HSR SB LINE STA 17993+79



REV	DATE	BY	CHK	APP	DESCRIPTION

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G. YAMANAKA
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 17993

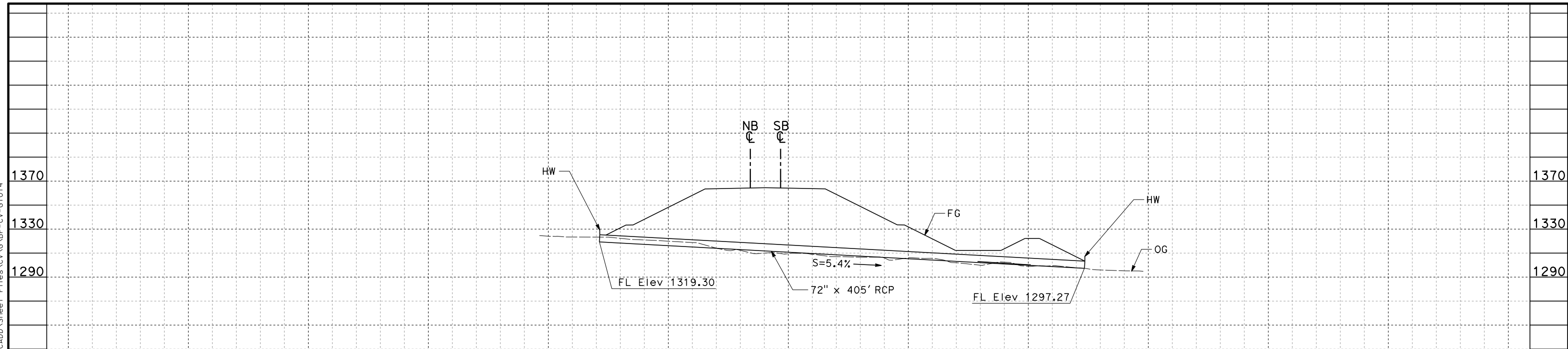
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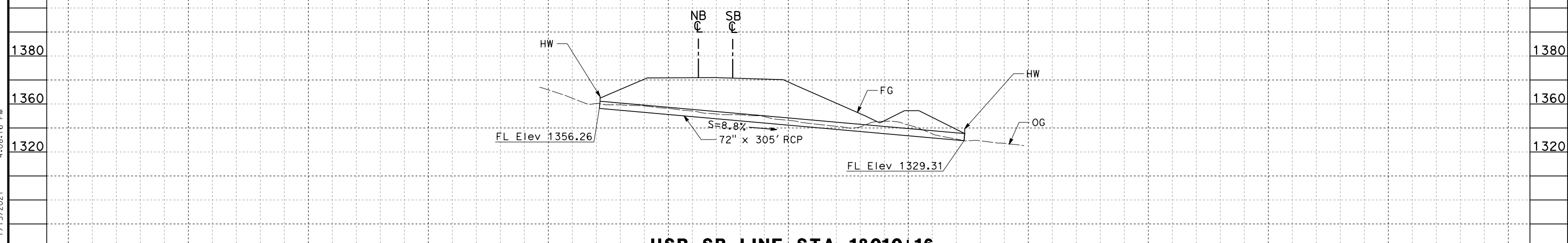
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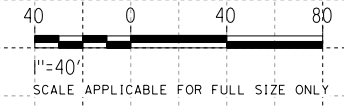
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18004+01



HSR SB LINE STA 18010+16



REV	DATE	BY	CHK	APP	DESCRIPTION

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18004, 18010

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1014

SCALE
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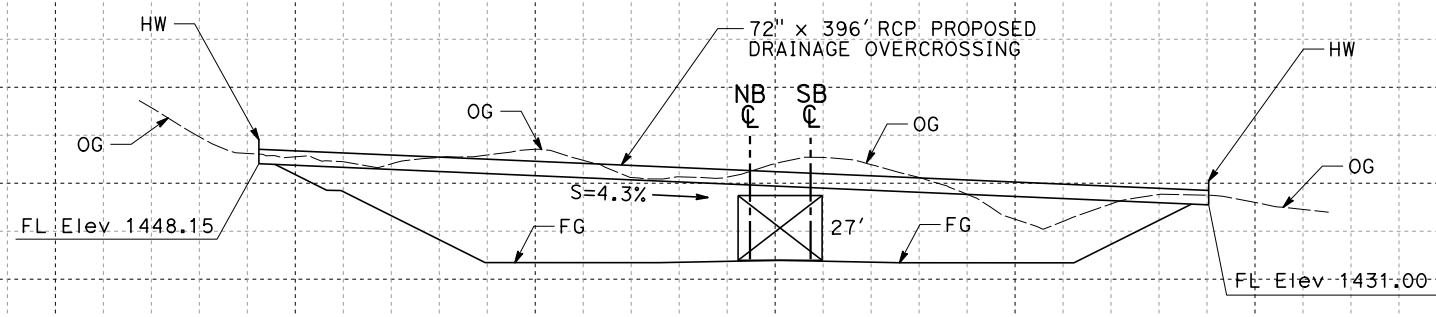
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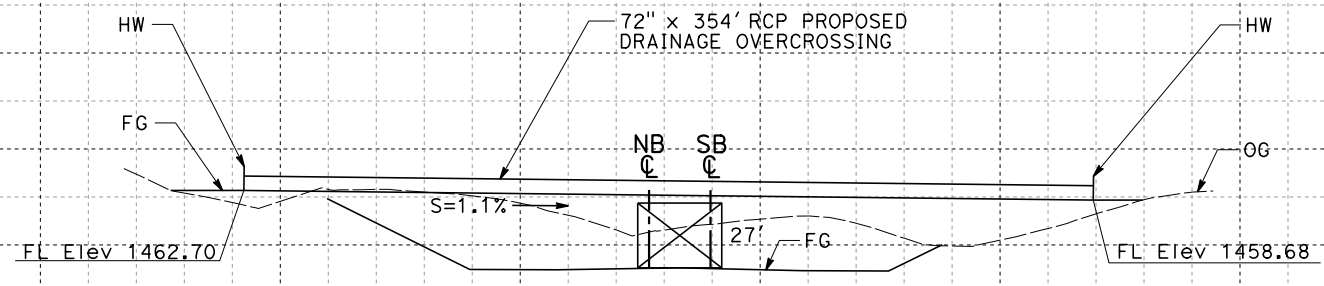
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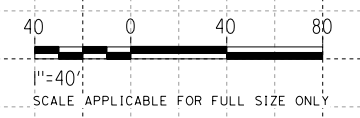
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18019+82



HSR SB LINE STA 18028+21



REV	DATE	BY	CHK	APP	DESCRIPTION

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18020, 18028

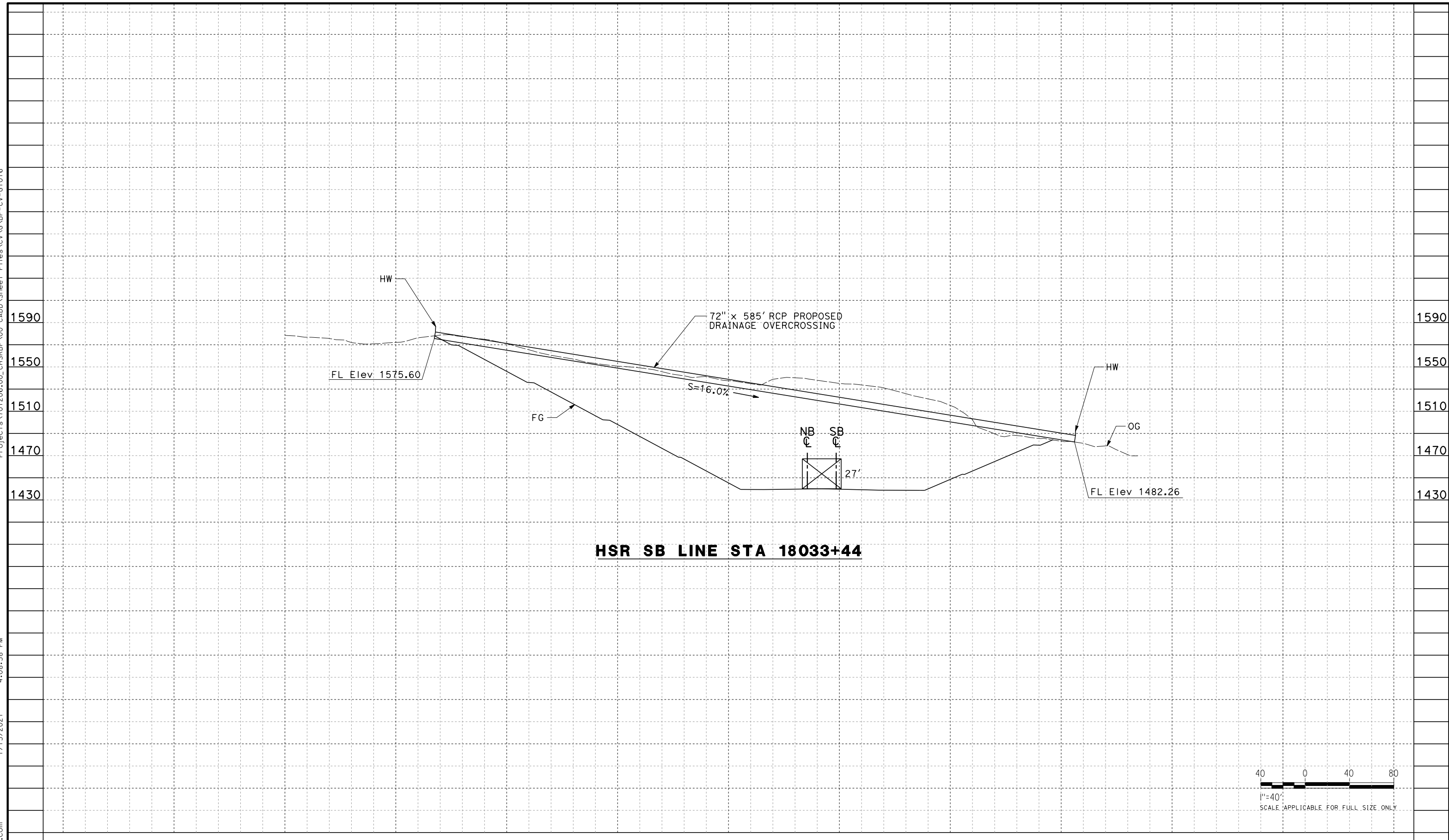
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419

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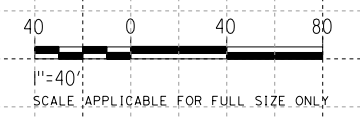
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HSR SB LINE STA 18033+44



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DATE
01/29/2021

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18033

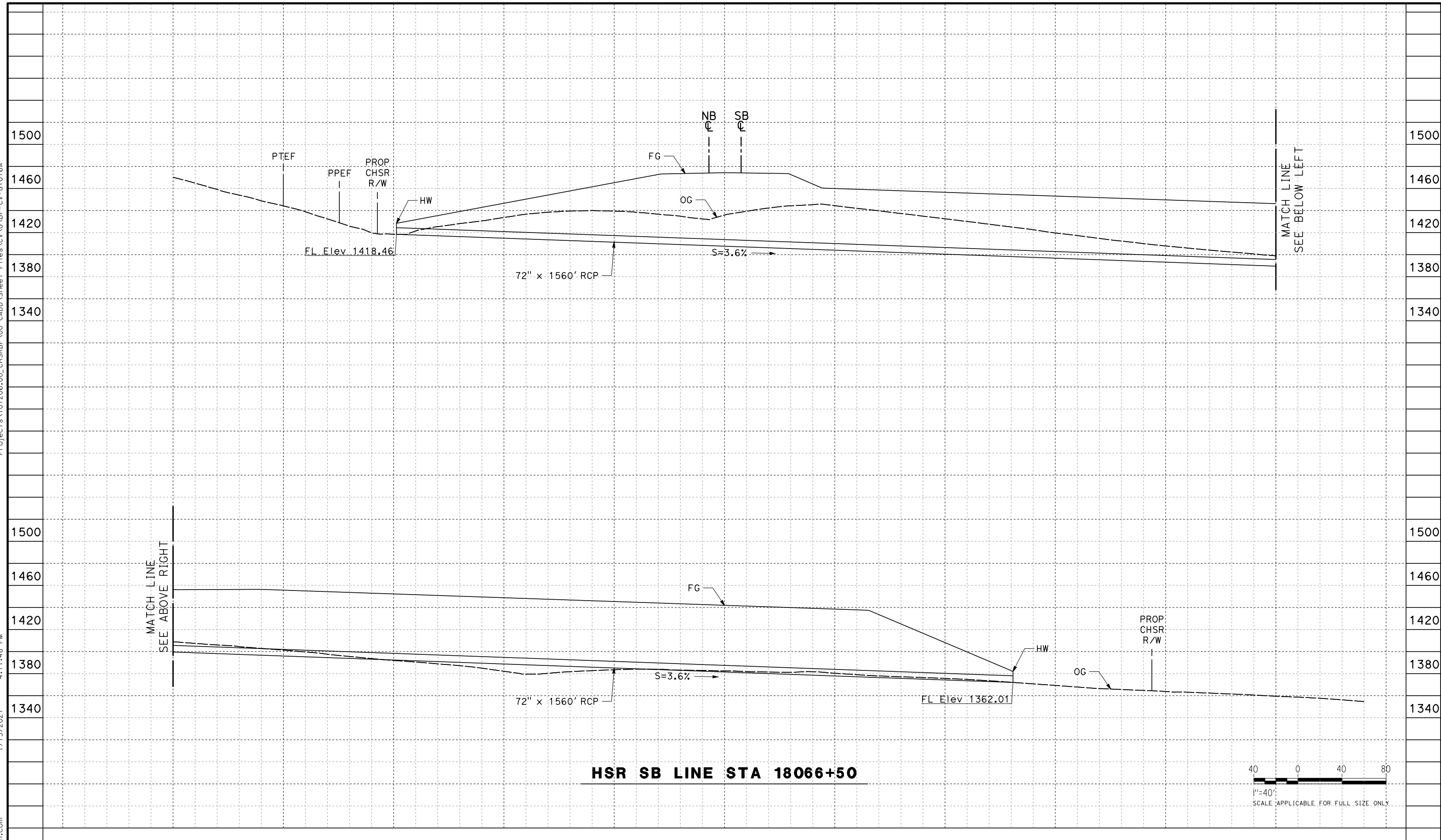
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DRAWING NO.
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SHEET NO.
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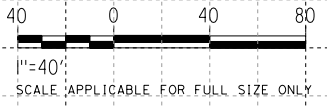
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HSR SB LINE STA 18066+50



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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A. DEL CASTILLO
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G. CAMPBELL
DATE
01/29/2021

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18067

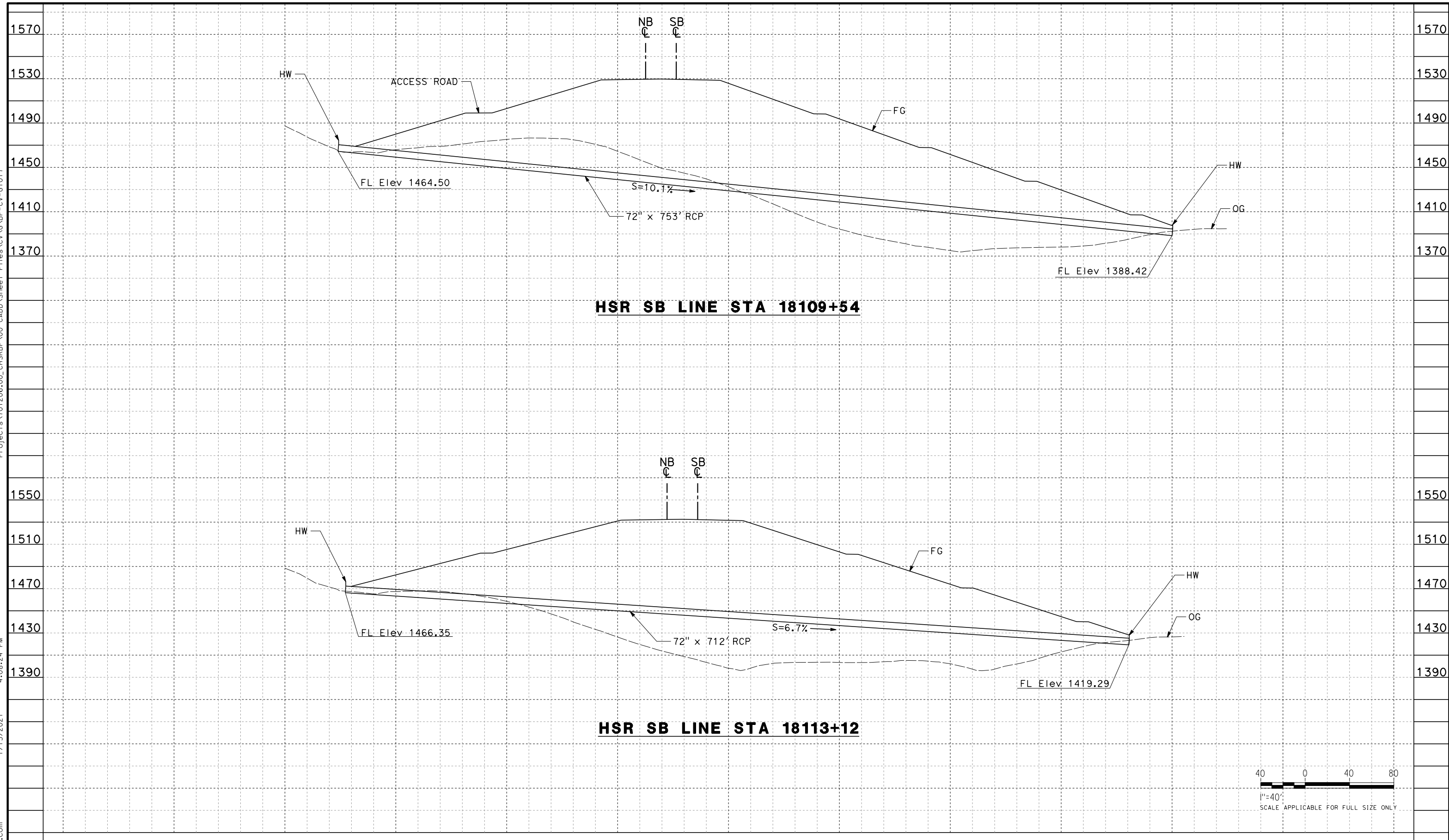
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HSR13-44
DRAWING NO.
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AS SHOWN
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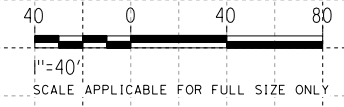
1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18109+54

HSR SB LINE STA 18113+12



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

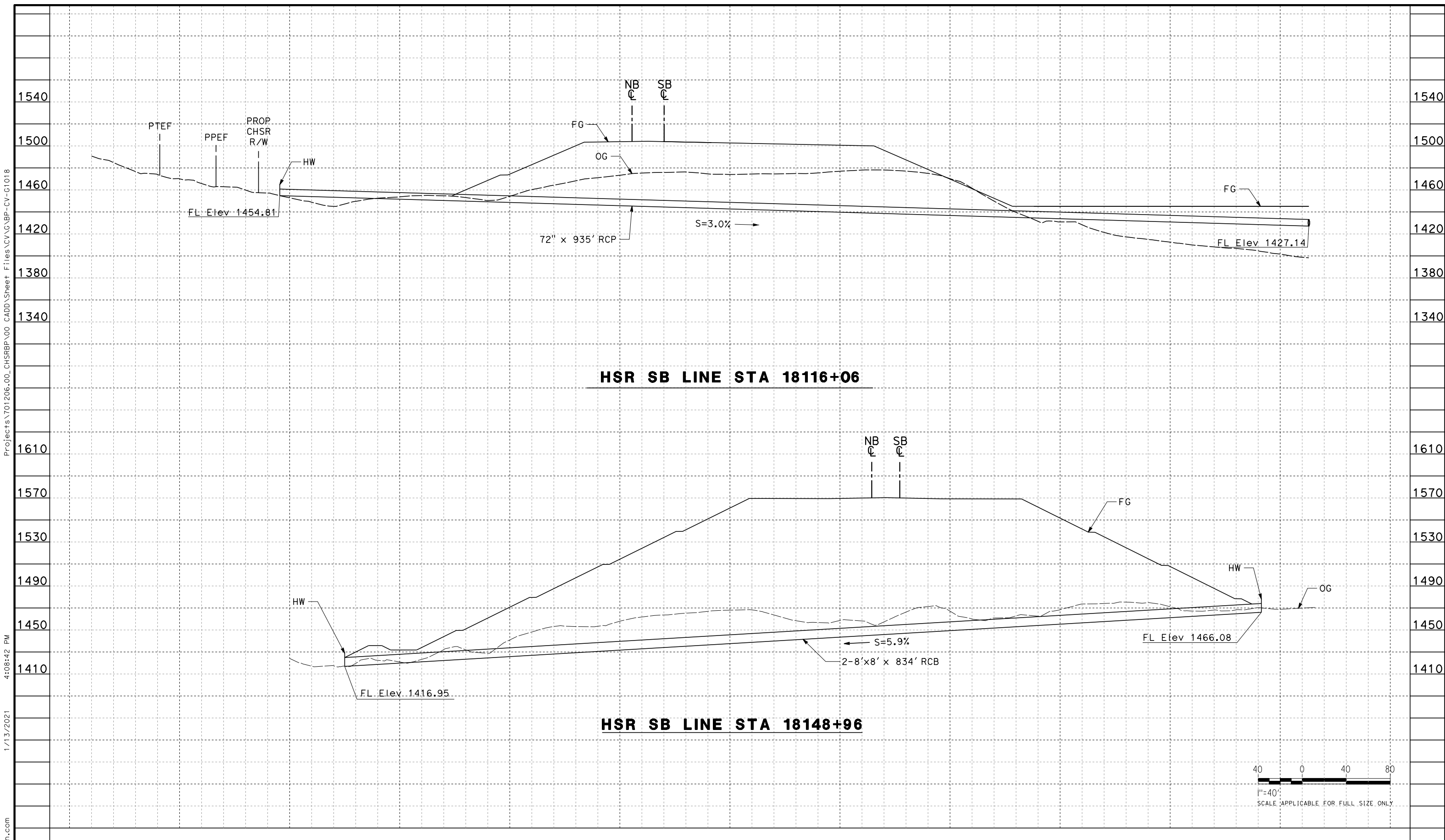
**NOT FOR
CONSTRUCTION**



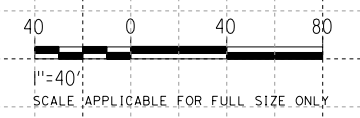
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18110, 18113

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G1017
SCALE
AS SHOWN
SHEET NO.
422



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 1/13/2021
 Glenn.Yamanaka@tylin.com



REV	DATE	BY	CHK	APP	DESCRIPTION

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

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 ALTERNATIVE 1,2,3,5
 GRADING AND DRAINAGE
 OFFSITE CULVERT PROFILE
 STA 18116, 18149

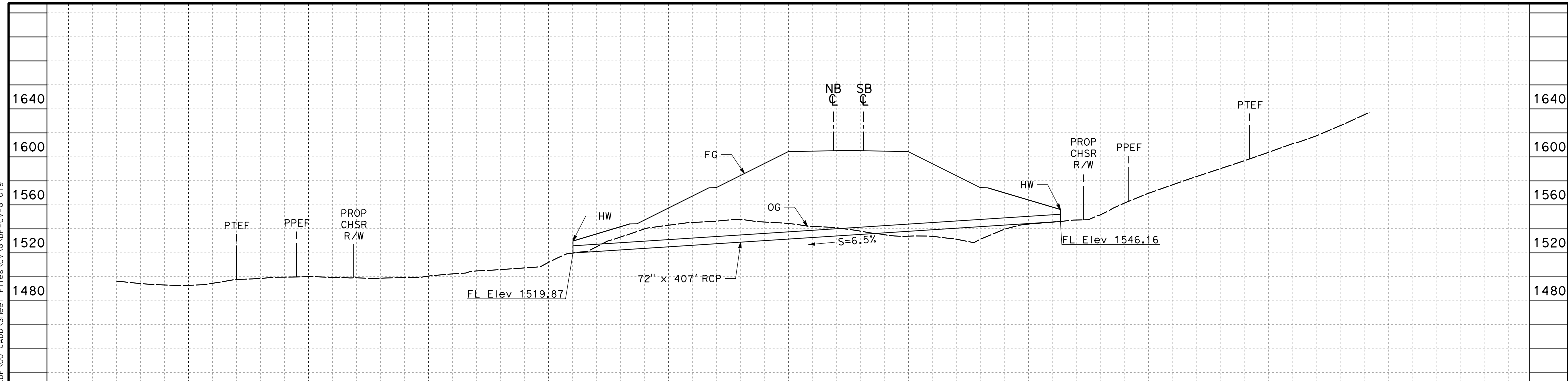
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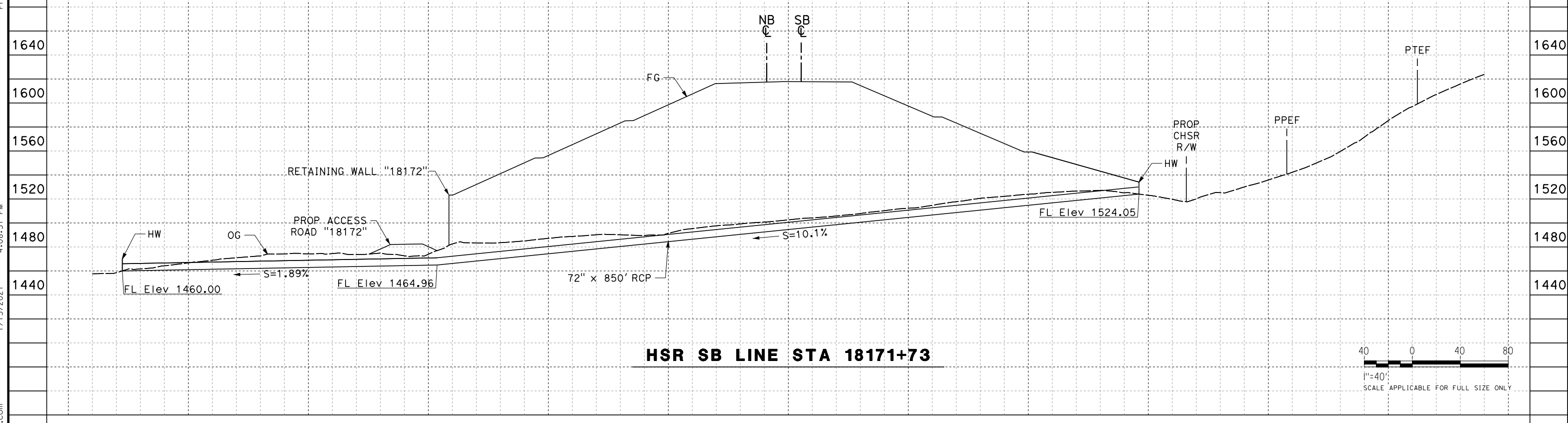
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1/13/2021

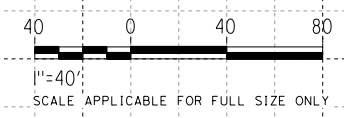
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18166+52



HSR SB LINE STA 18171+73

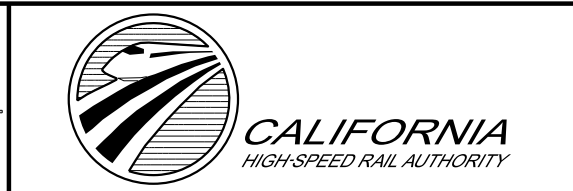


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
A. DEL CASTILLO
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G. CAMPBELL
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G. CAMPBELL
DATE
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18167, 18172

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1019

SCALE
AS SHOWN

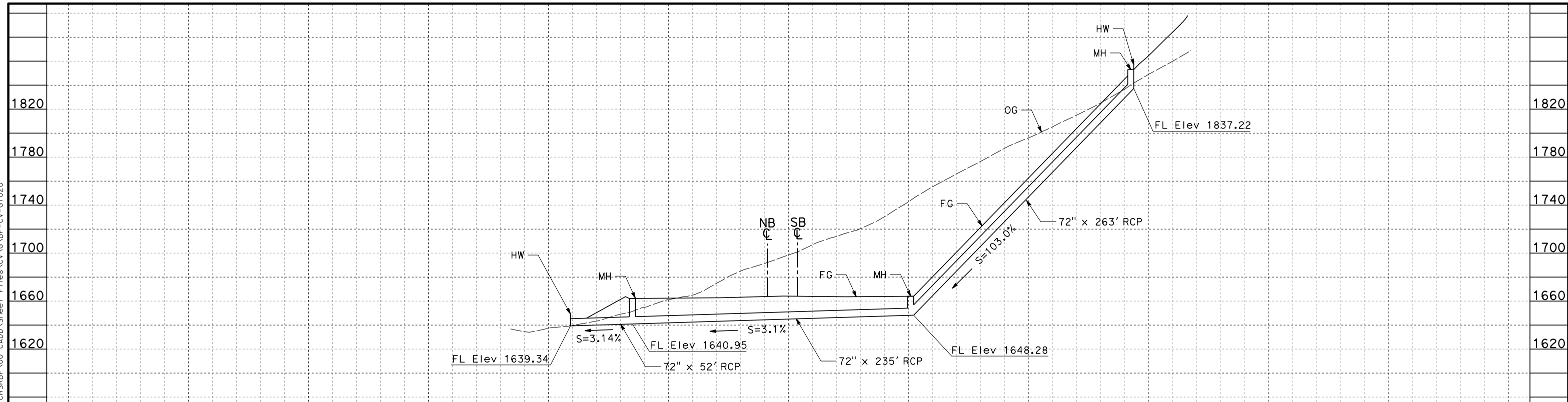
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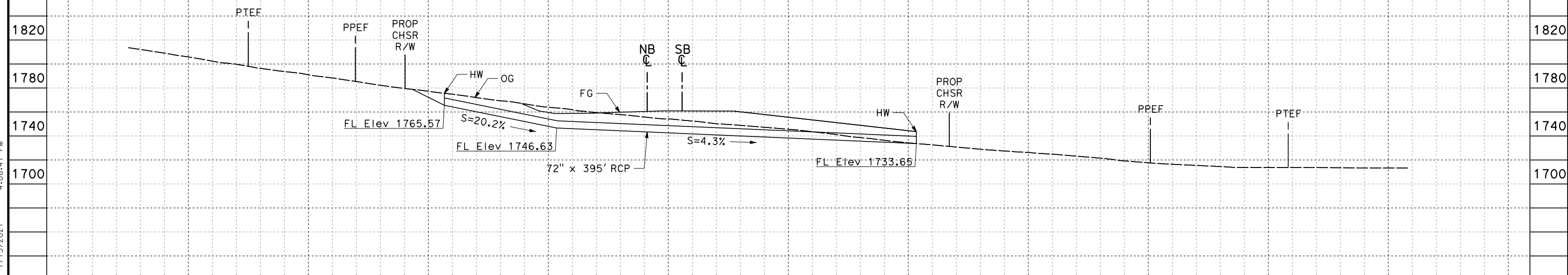
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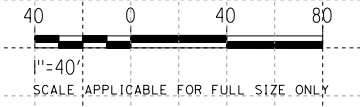
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18188+54



HSR SB LINE STA 18223+15



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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G. CAMPBELL
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DATE
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18189, 18223

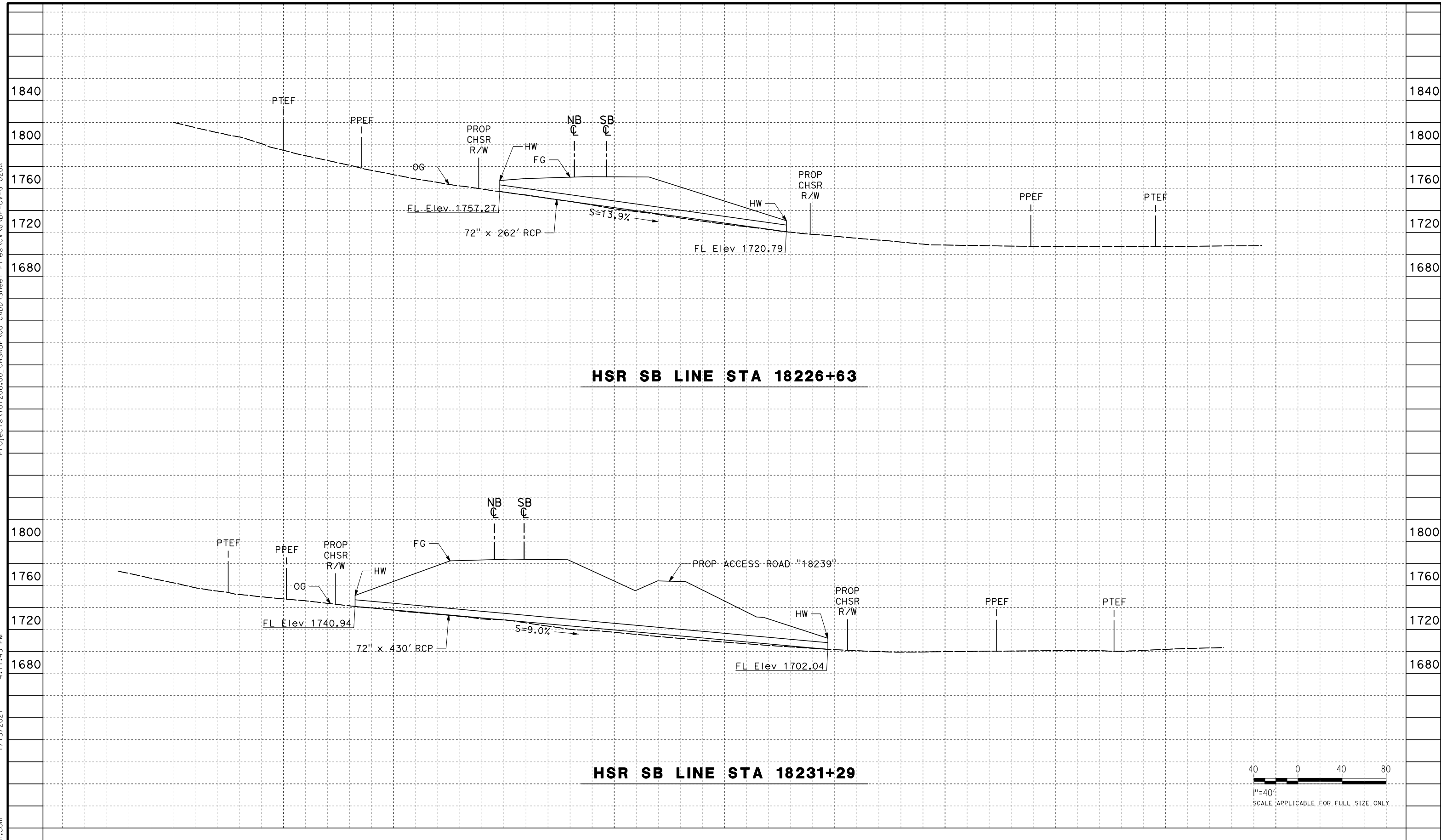
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DRAWING NO.
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SCALE
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SHEET NO.
425

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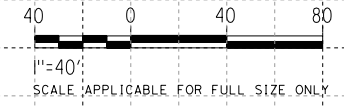
1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18226+63

HSR SB LINE STA 18231+29



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA

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A. DEL CASTILLO

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G. CAMPBELL

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G. CAMPBELL

DATE
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18227, 18231

CONTRACT NO.
HSR13-44

DRAWING NO.
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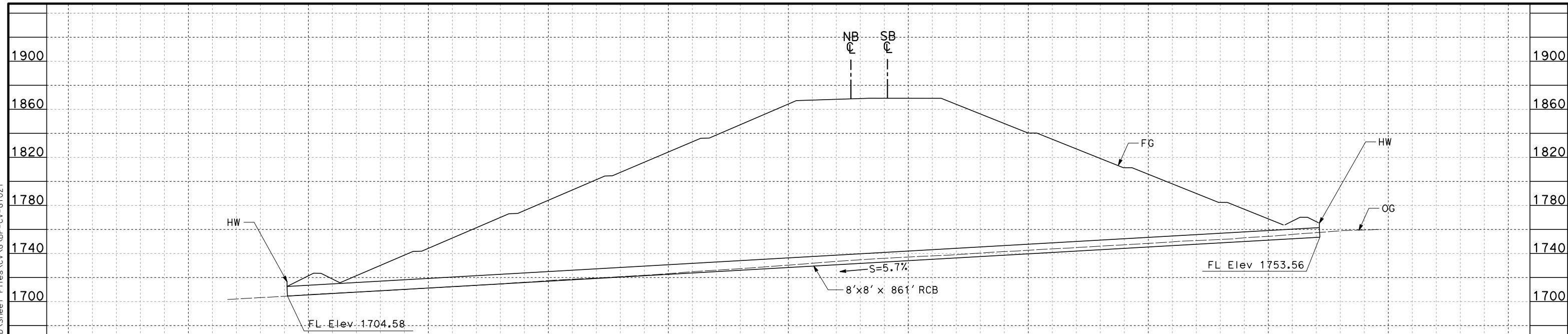
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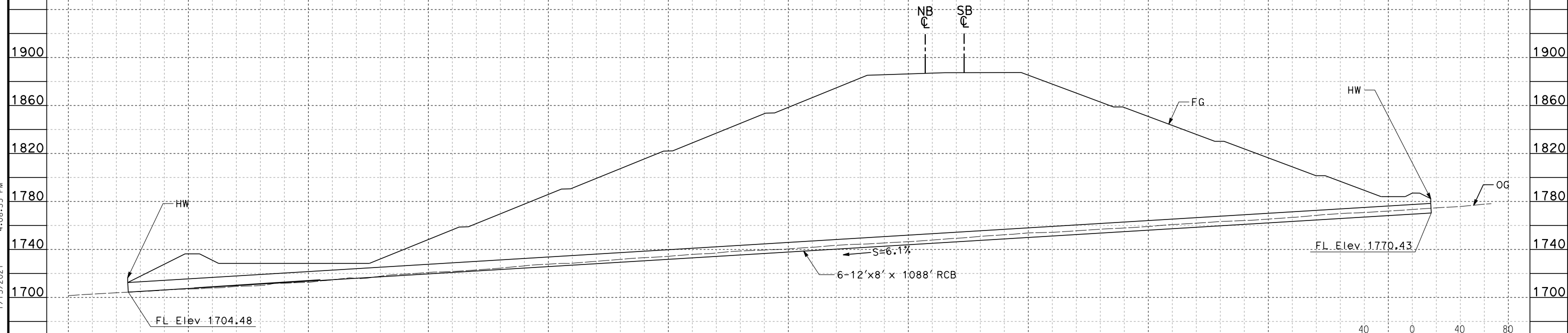
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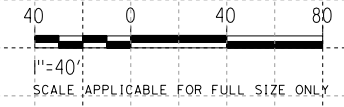
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18261+78



HSR SB LINE STA 18267+46



REV	DATE	BY	CHK	APP	DESCRIPTION

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

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18262, 18267

CONTRACT NO.
HSR13-44

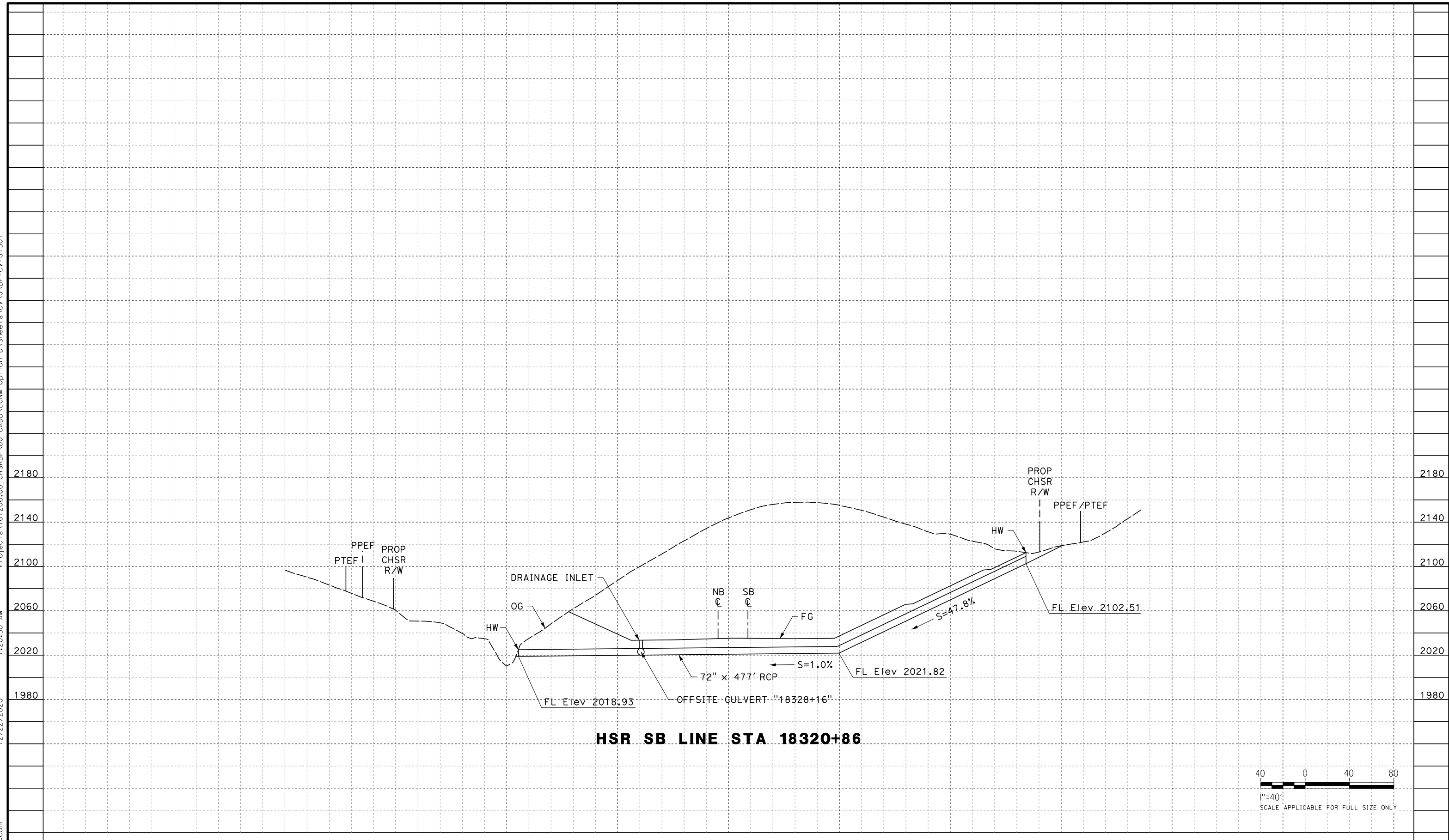
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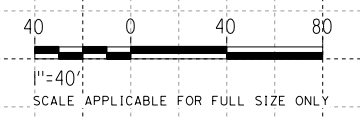
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427

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12/22/2020 1:20:50 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18320+86



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

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CONSTRUCTION**



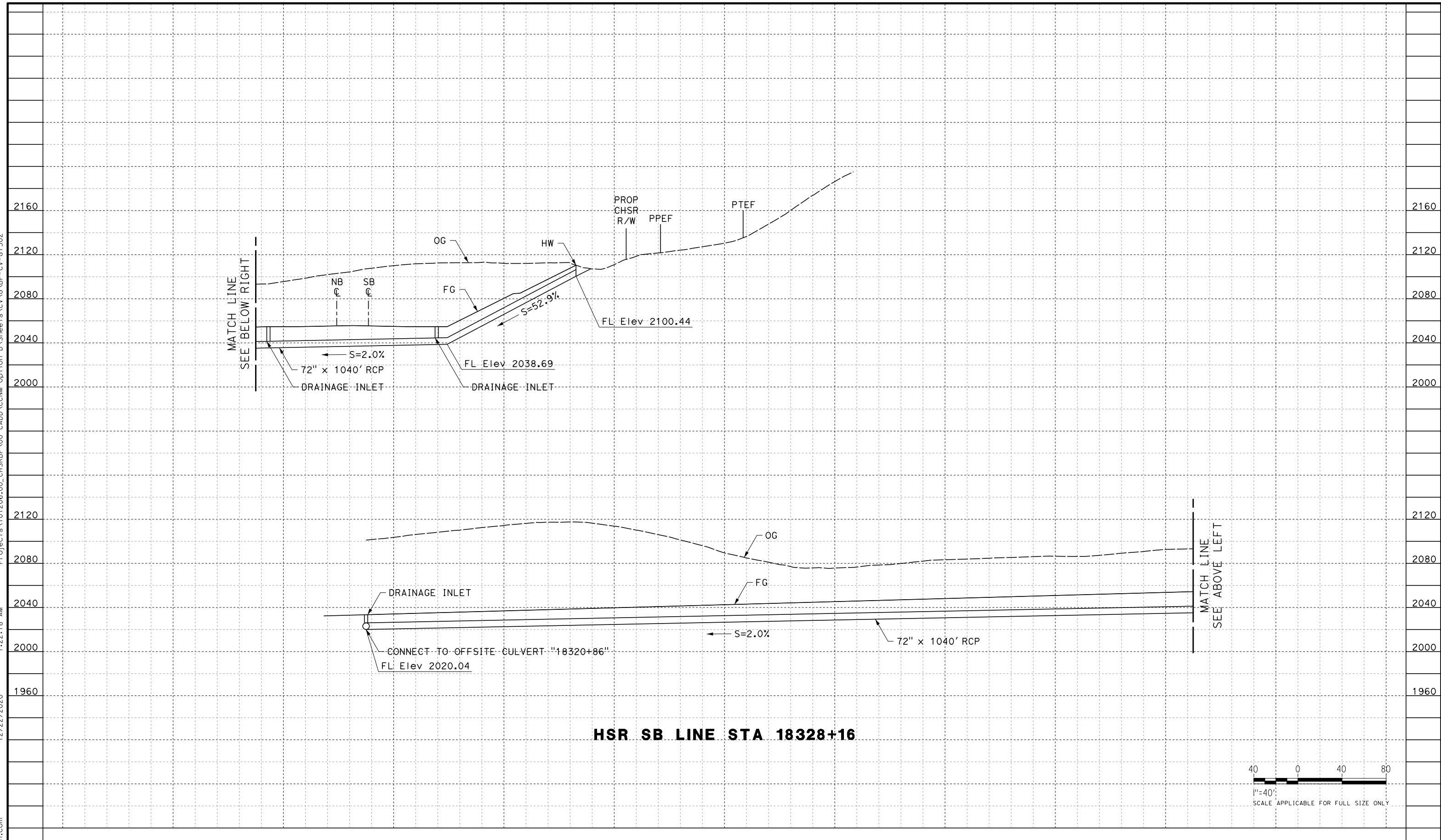
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18320+86

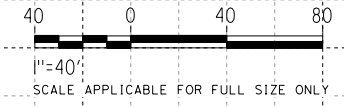
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428

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12/22/2020 1:22:18 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18328+16



REV	DATE	BY	CHK	APP	DESCRIPTION

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

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

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18328+16

CONTRACT NO.
HSR13-44

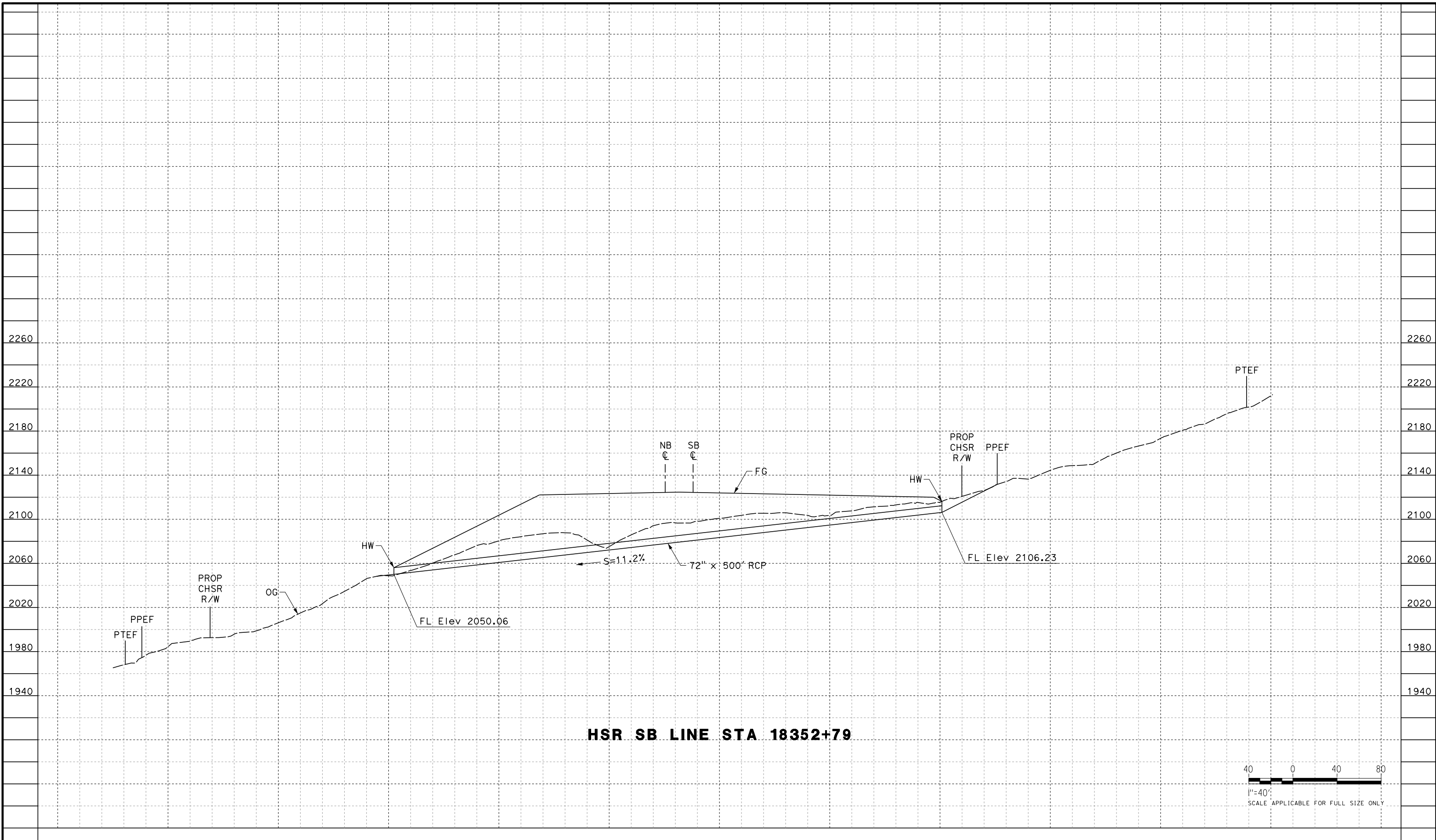
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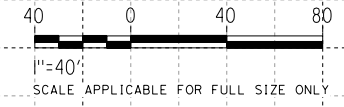
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12/22/2020 1:20:21 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18352+79



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

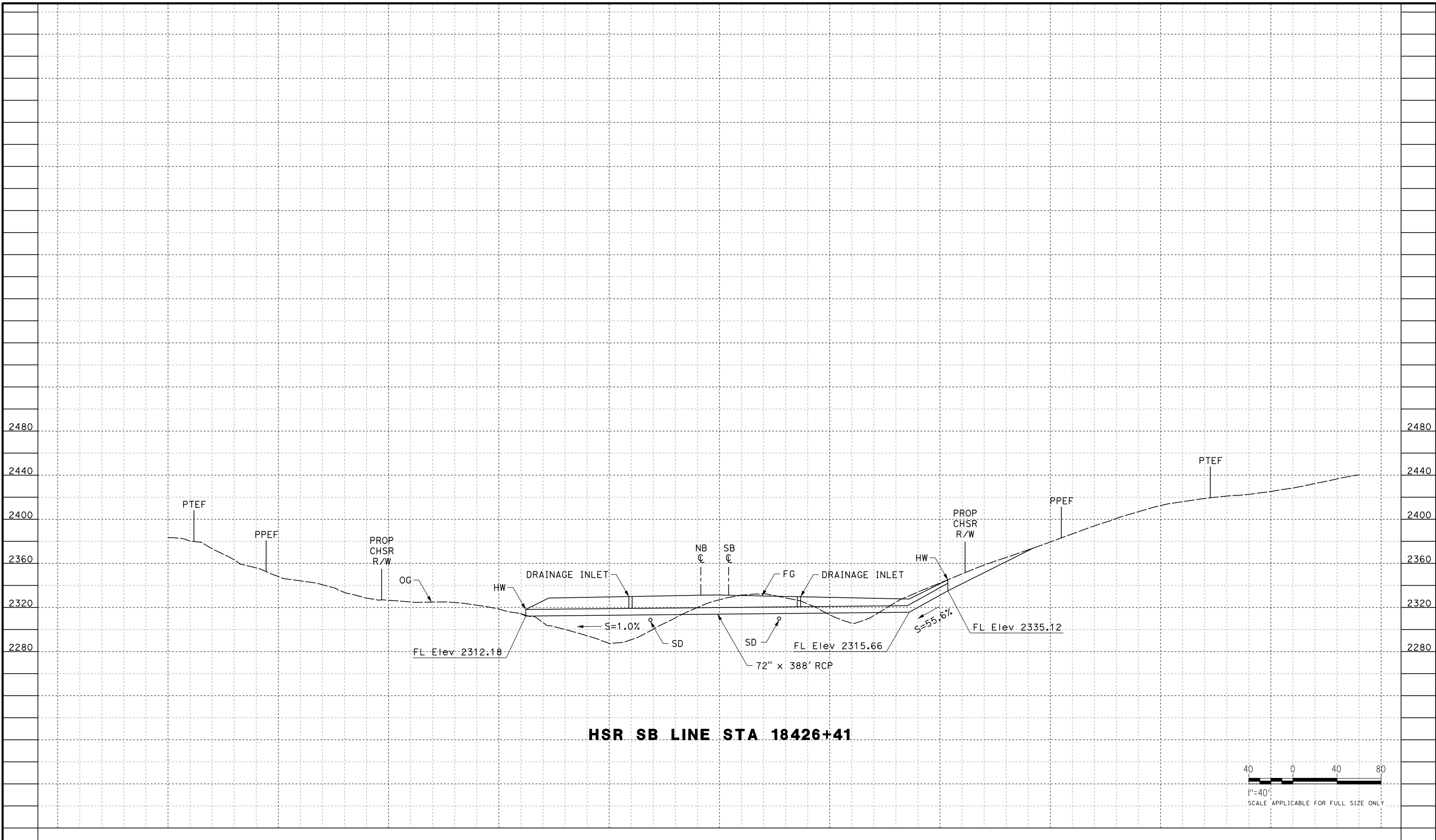


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18352+79

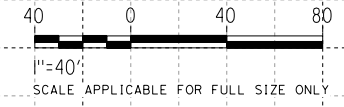
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430

Projects\701206.00_CHSRBP\00_CADD\CCNM_Op\10n D\Sheets\CV\G\BP-CV-G1504

12/22/2020 1:22:25 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18426+41



REV	DATE	BY	CHK	APP	DESCRIPTION

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

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

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18426+41

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1504

SCALE
AS SHOWN

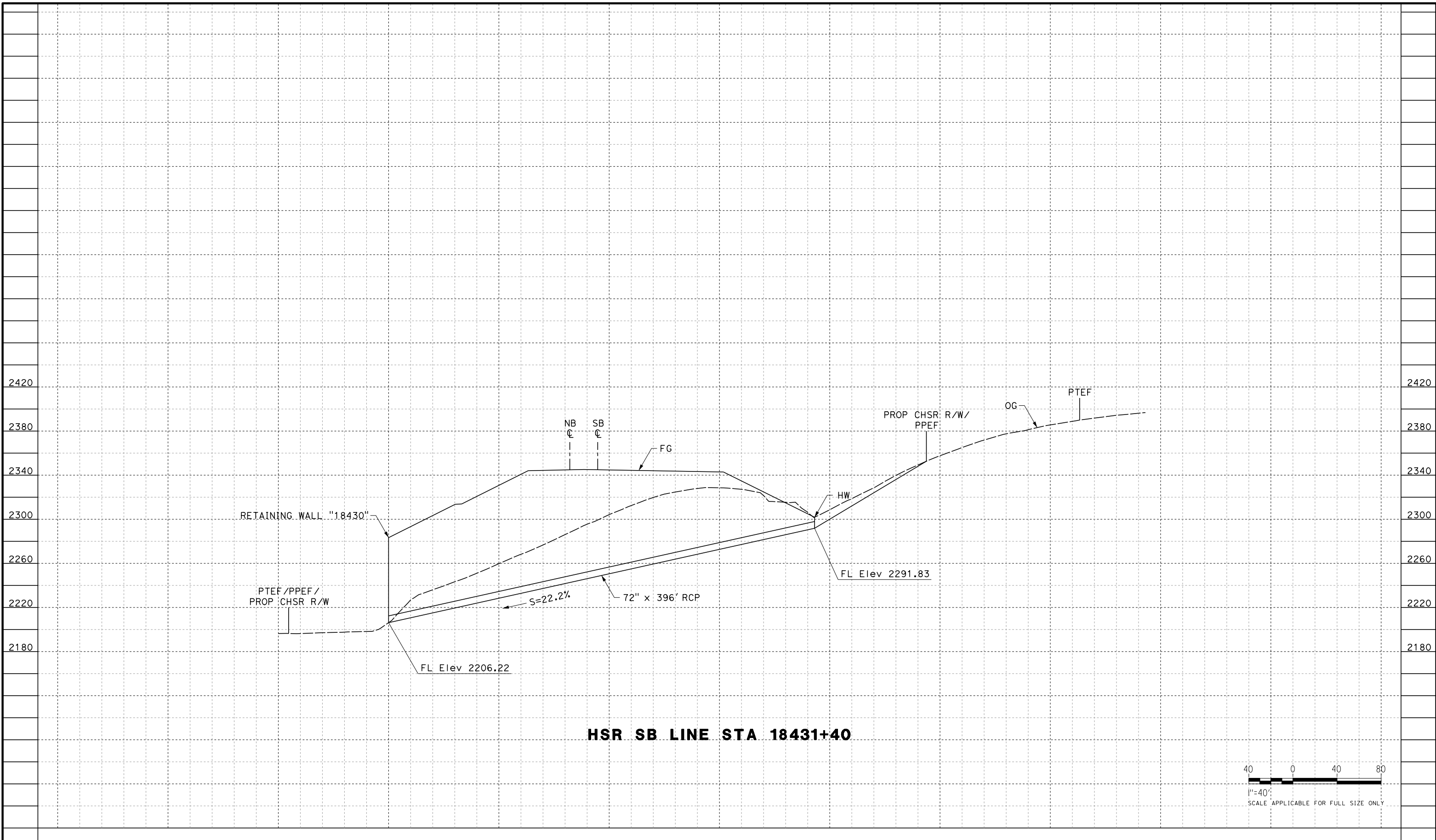
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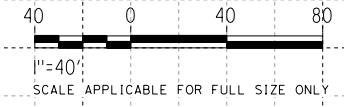
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HSR SB LINE STA 18431+40



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 REFINED CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 OFFSITE CULVERT PROFILE
 STA 18431+40

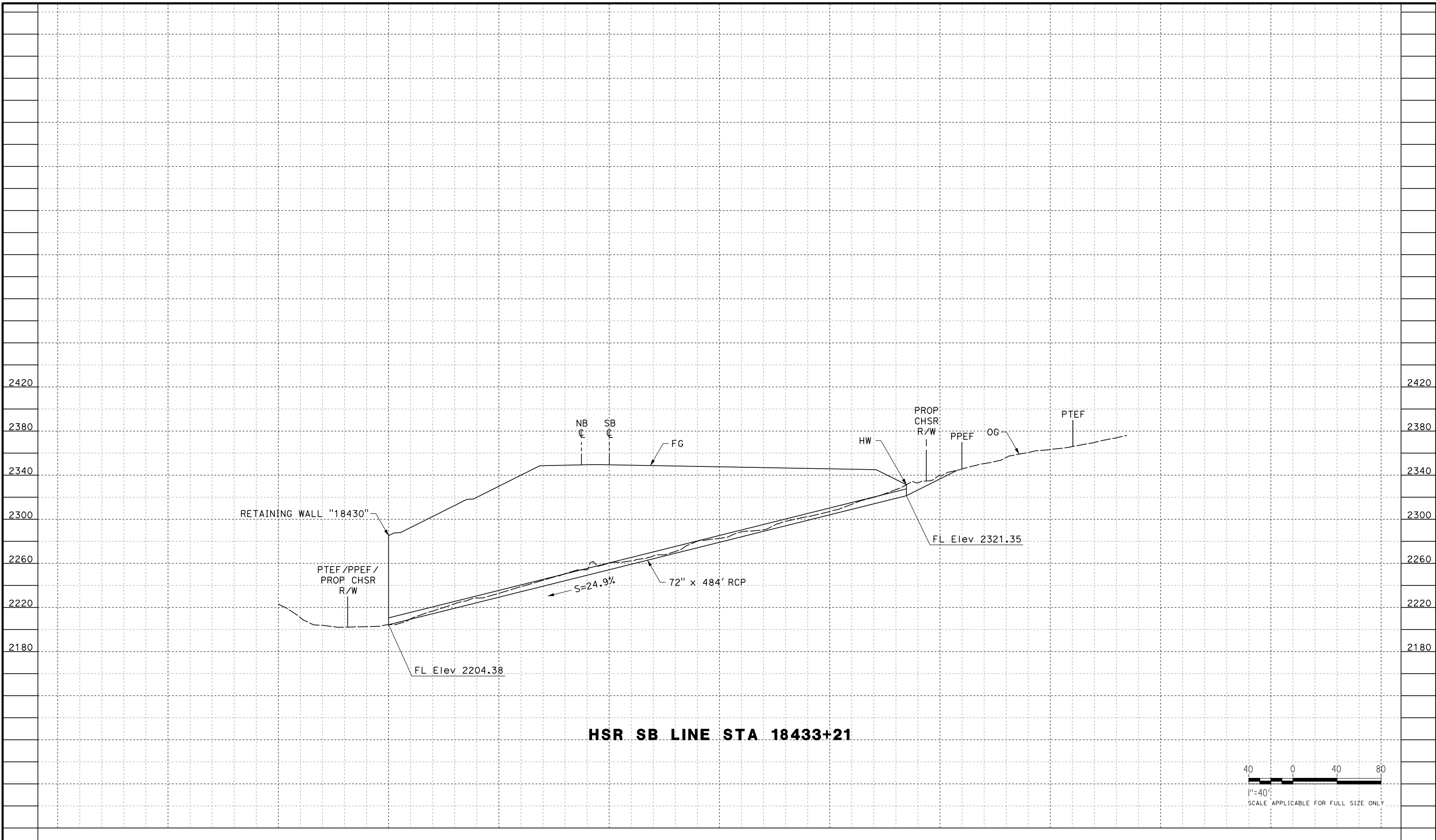
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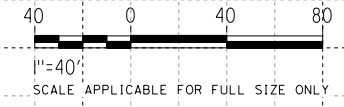
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Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18433+21



REV	DATE	BY	CHK	APP	DESCRIPTION

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

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

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18433+21

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1506

SCALE
AS SHOWN

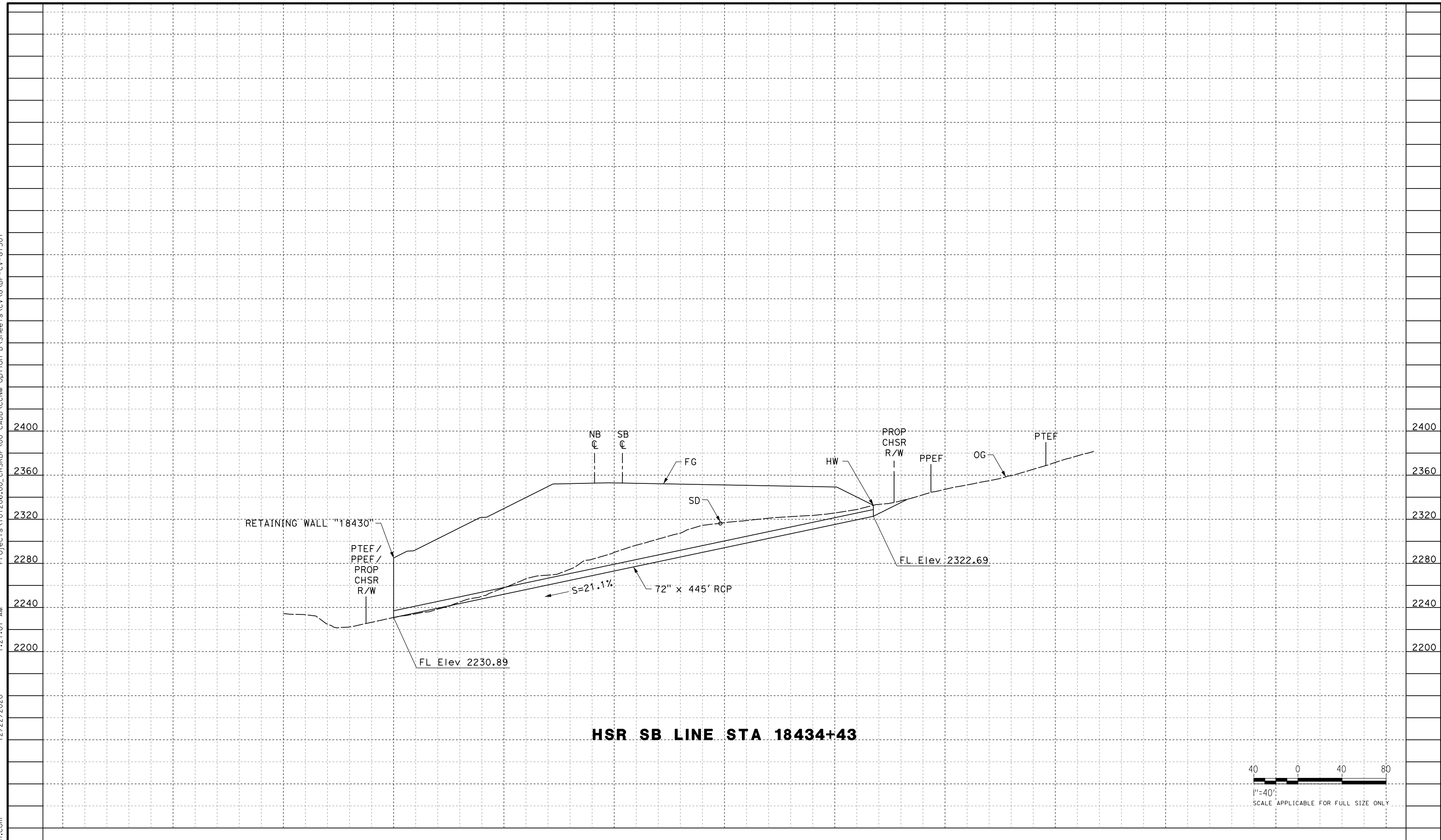
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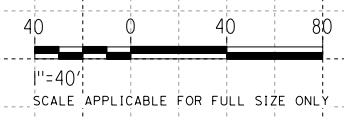
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12/22/2020

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HSR SB LINE STA 18434+43



REV	DATE	BY	CHK	APP	DESCRIPTION

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

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PEPD
SUBMITTAL**

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CONSTRUCTION**



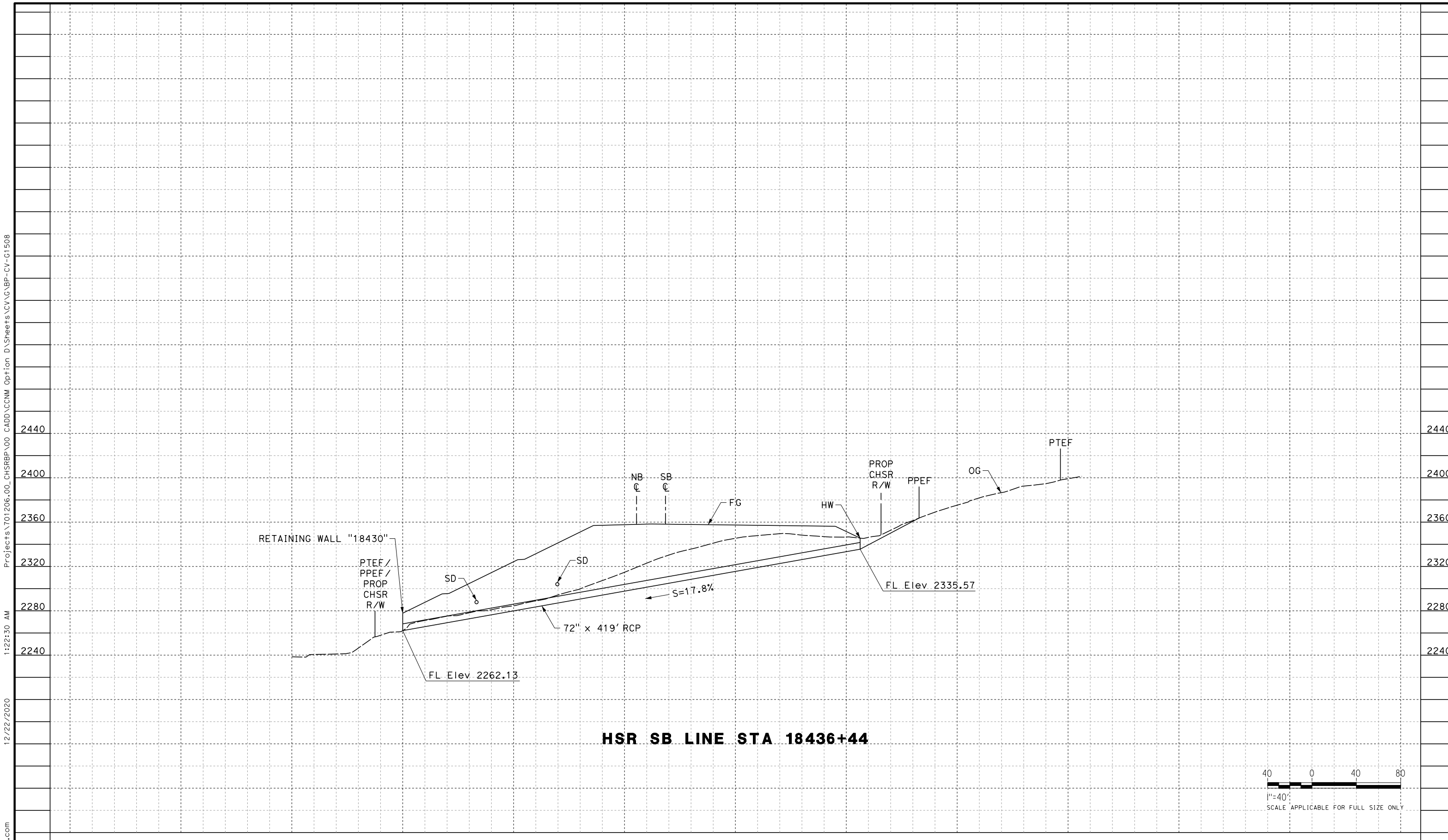
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18434+43

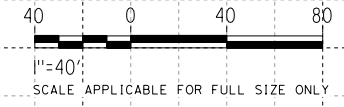
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434

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 12/22/2020

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HSR SB LINE STA 18436+44

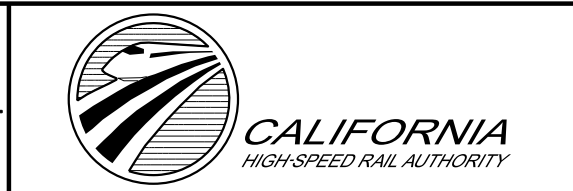


REV	DATE	BY	CHK	APP	DESCRIPTION

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

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**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 REFINED CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 OFFSITE CULVERT PROFILE
 STA 18436+44

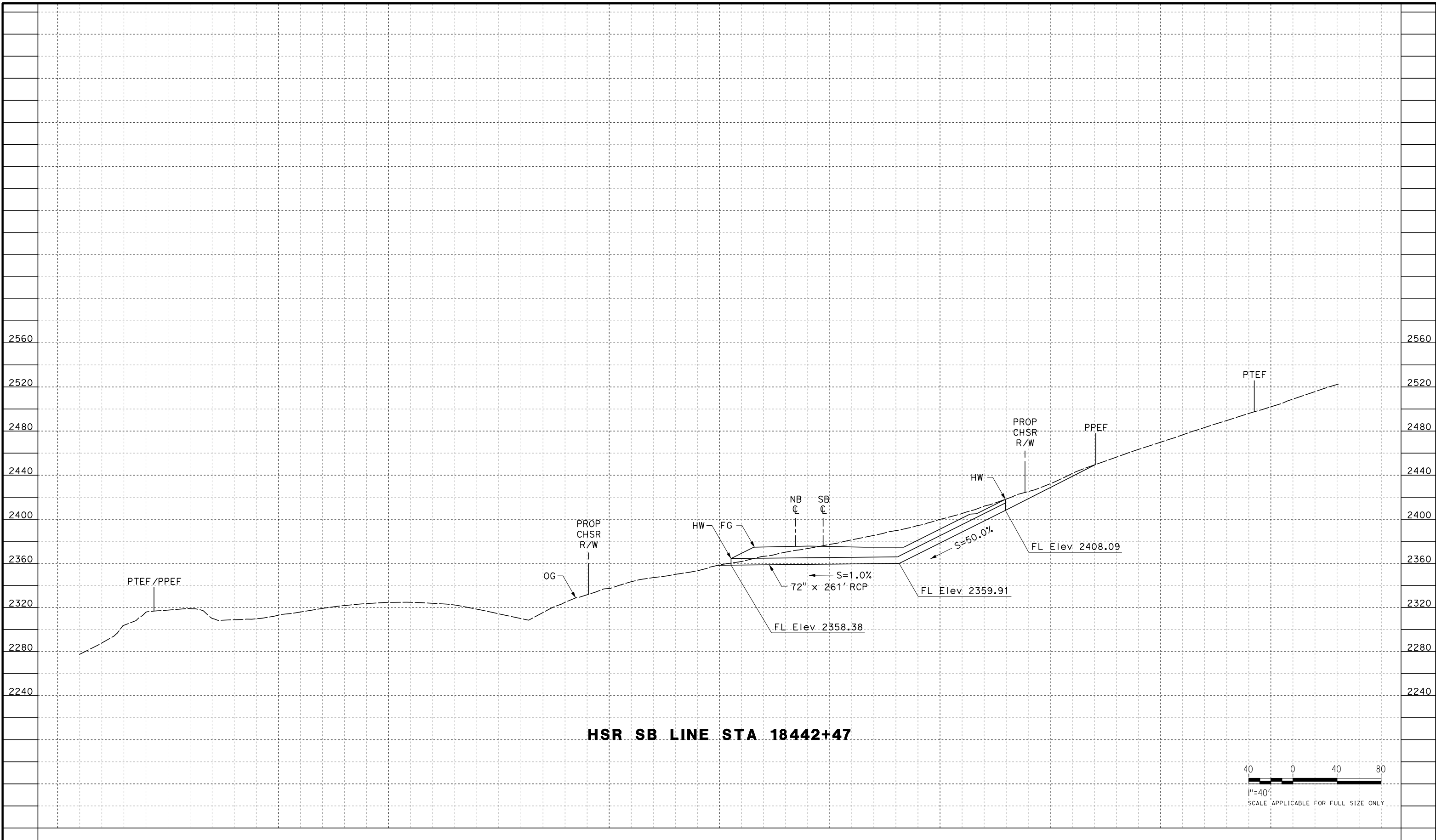
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HSR13-44
 DRAWING NO.
CV-G1508
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AS SHOWN
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435

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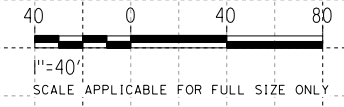
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12/22/2020

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HSR SB LINE STA 18442+47



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

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CONSTRUCTION**

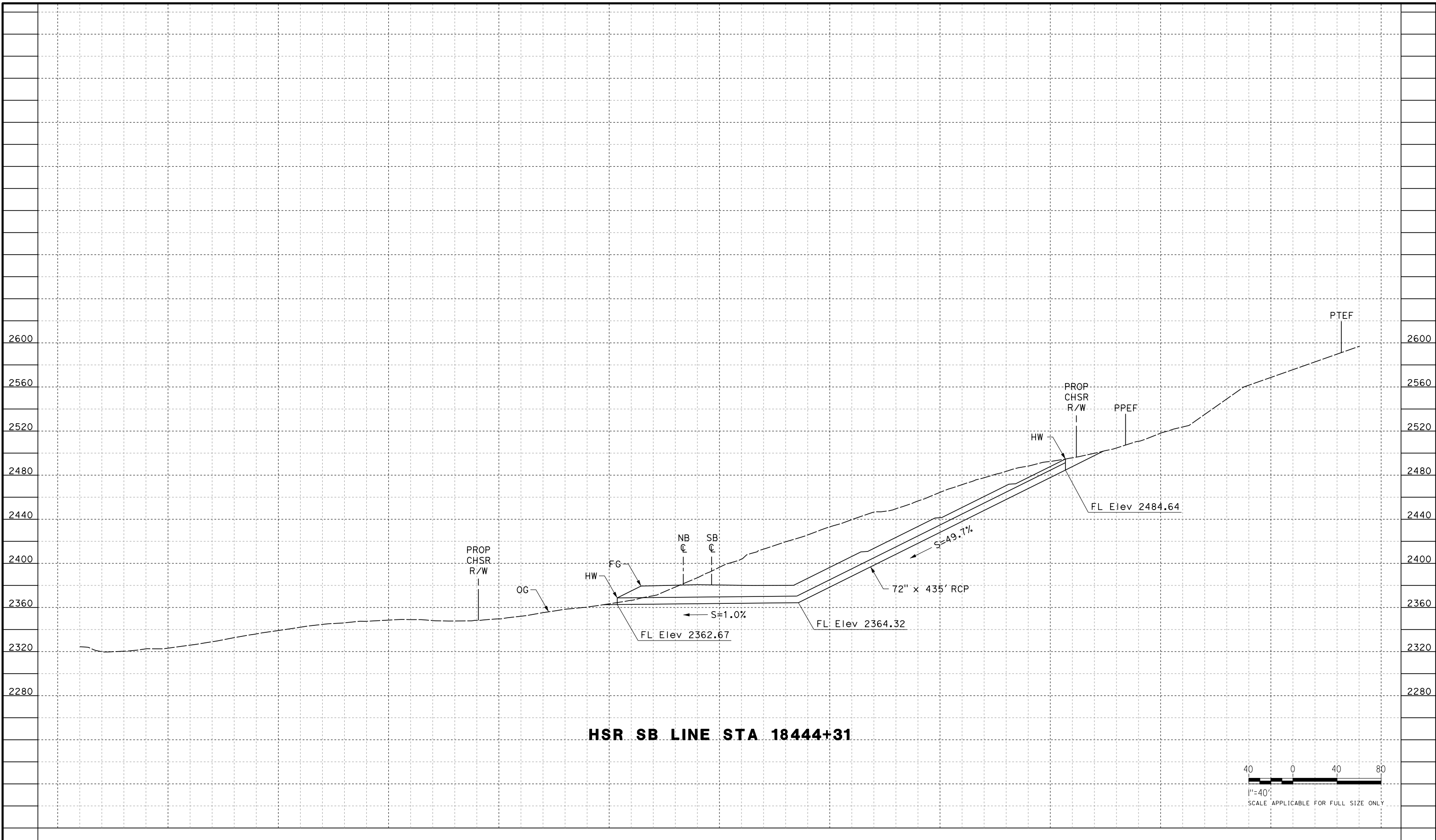


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18442+47

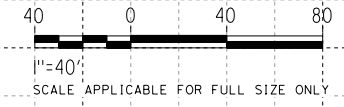
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DRAWING NO.
CV-G1509
SCALE
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436

Projects\701206.00_CHSRBP\00_CADD\CCNM_Option_D\Sheets\CV\G\BP-CV-G1510
 12/22/2020 1:21:32 AM

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18444+31



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
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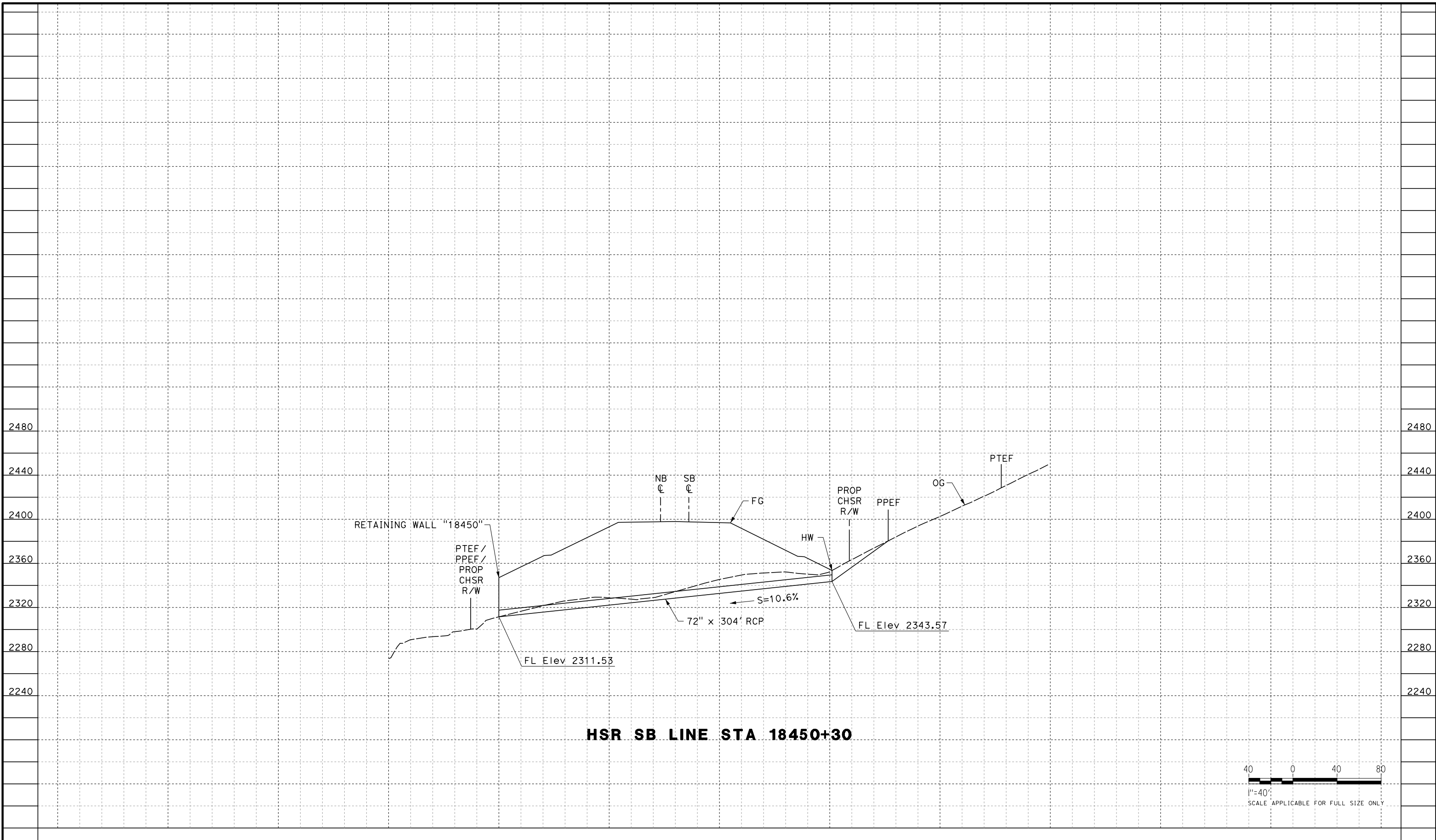


**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 REFINED CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 OFFSITE CULVERT PROFILE
 STA 18444+31

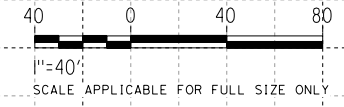
CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-G1510
 SCALE
AS SHOWN
 SHEET NO.
437

Projects\701206.00_CHSRBP\00_CADD\CCNM_Option_D\Sheets\CV\GABP-CV-G1511

12/22/2020 1:21:25 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18450+30



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18450+30

CONTRACT NO.
HSR13-44

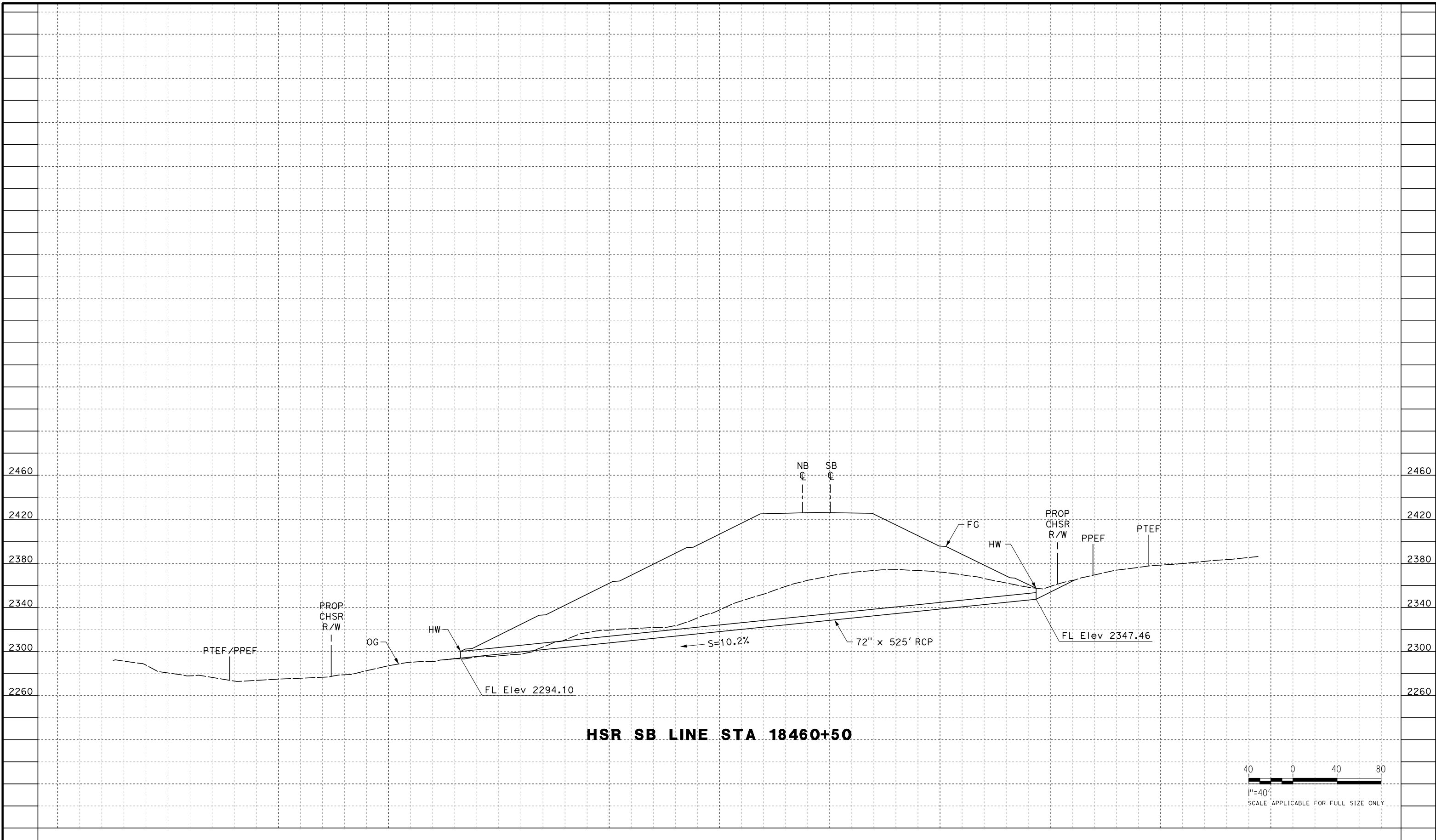
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CV-G1511

SCALE
AS SHOWN

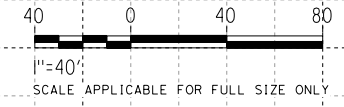
SHEET NO.
438

Projects\701206.00_CHSRBP\00_CADD\CCNM_OpHion_D\Sheets\CV\G\BP-CV-G1512
 12/22/2020 1:23:20 AM

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18460+50

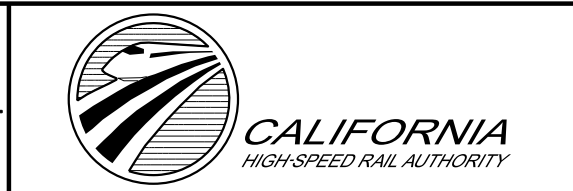


REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
 PEPD
 SUBMITTAL**

**NOT FOR
 CONSTRUCTION**

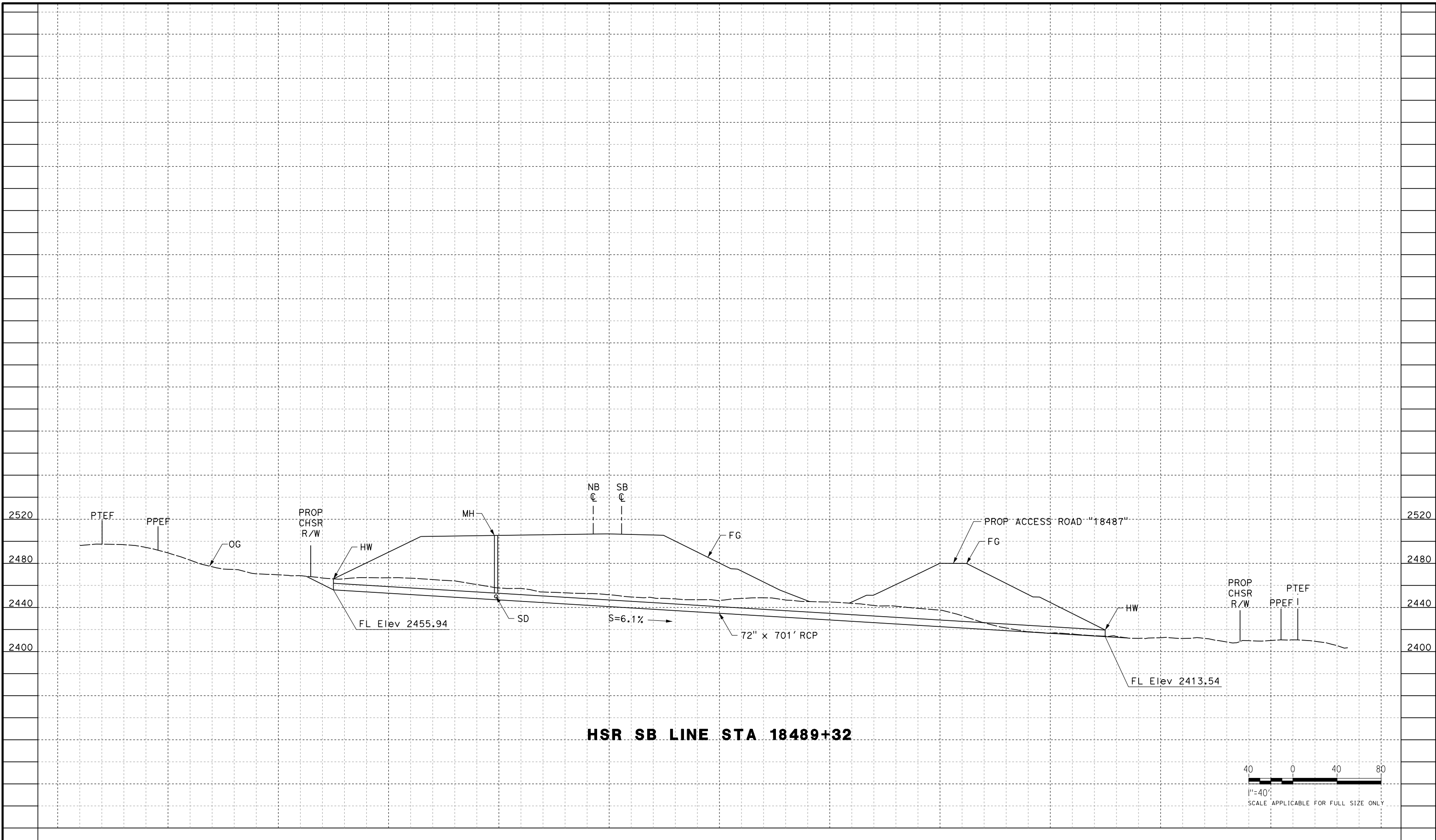


**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 REFINED CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 OFFSITE CULVERT PROFILE
 STA 18460+50

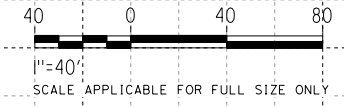
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 SCALE
AS SHOWN
 SHEET NO.
439

Projects\701206.00_CHSRBP\00_CADD\CCNM_OpHion_D\Sheets\CV\G\BP-CV-G1513

12/22/2020 1:20:58 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18489+32



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



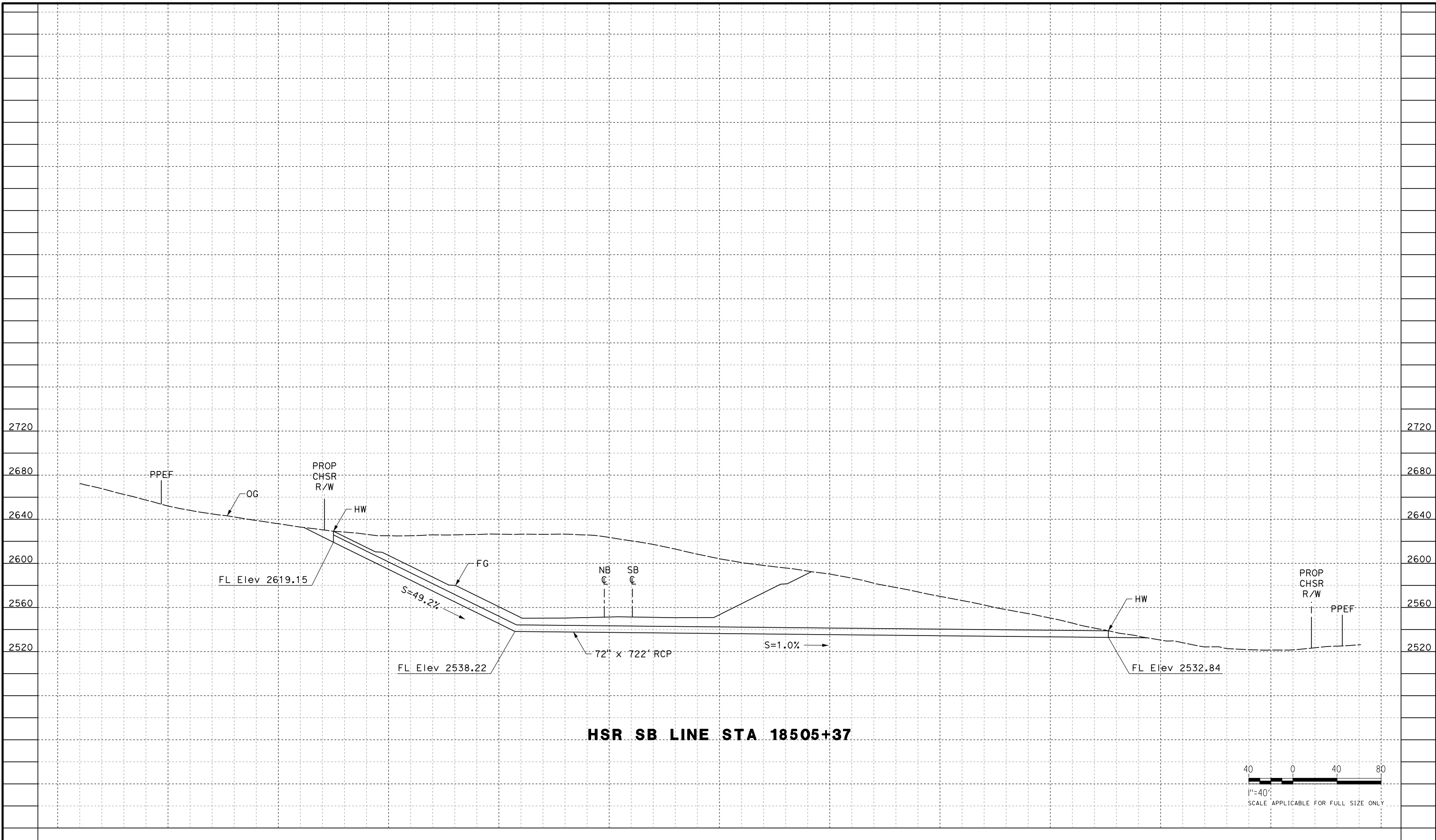
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18489+32

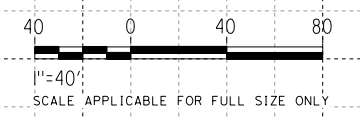
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HSR13-44
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SCALE
AS SHOWN
SHEET NO.
440

Projects\701206.00_CHSRBP\00_CADD\CCNM_OpHion_D\Sheets\CV\G\BP-CV-G1514

12/22/2020 1:22:31 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18505+37



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18505+37

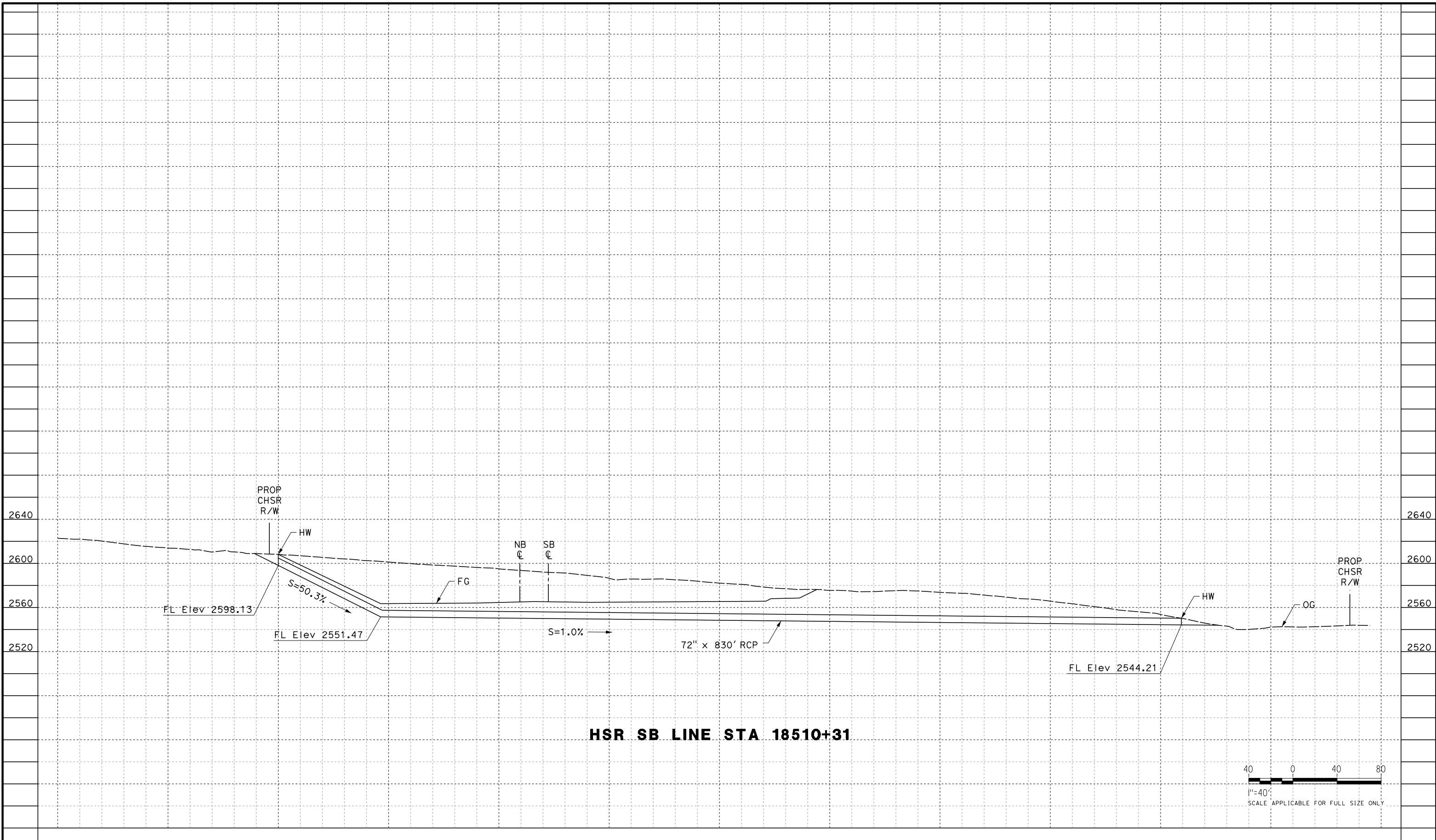
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HSR13-44

DRAWING NO.
CV-G1514

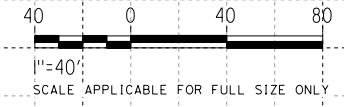
SCALE
AS SHOWN

SHEET NO.
441

Projects\701206.00_CHSRBP\00_CADD\CCNM_Op\1ion D\Sheets\CV\G\BP-CV-G1515
 1:20:29 AM
 12/22/2020



HSR SB LINE STA 18510+31



Glen.Yamanaka@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
 PEPD
 SUBMITTAL**

**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 REFINED CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 OFFSITE CULVERT PROFILE
 STA 18510+31

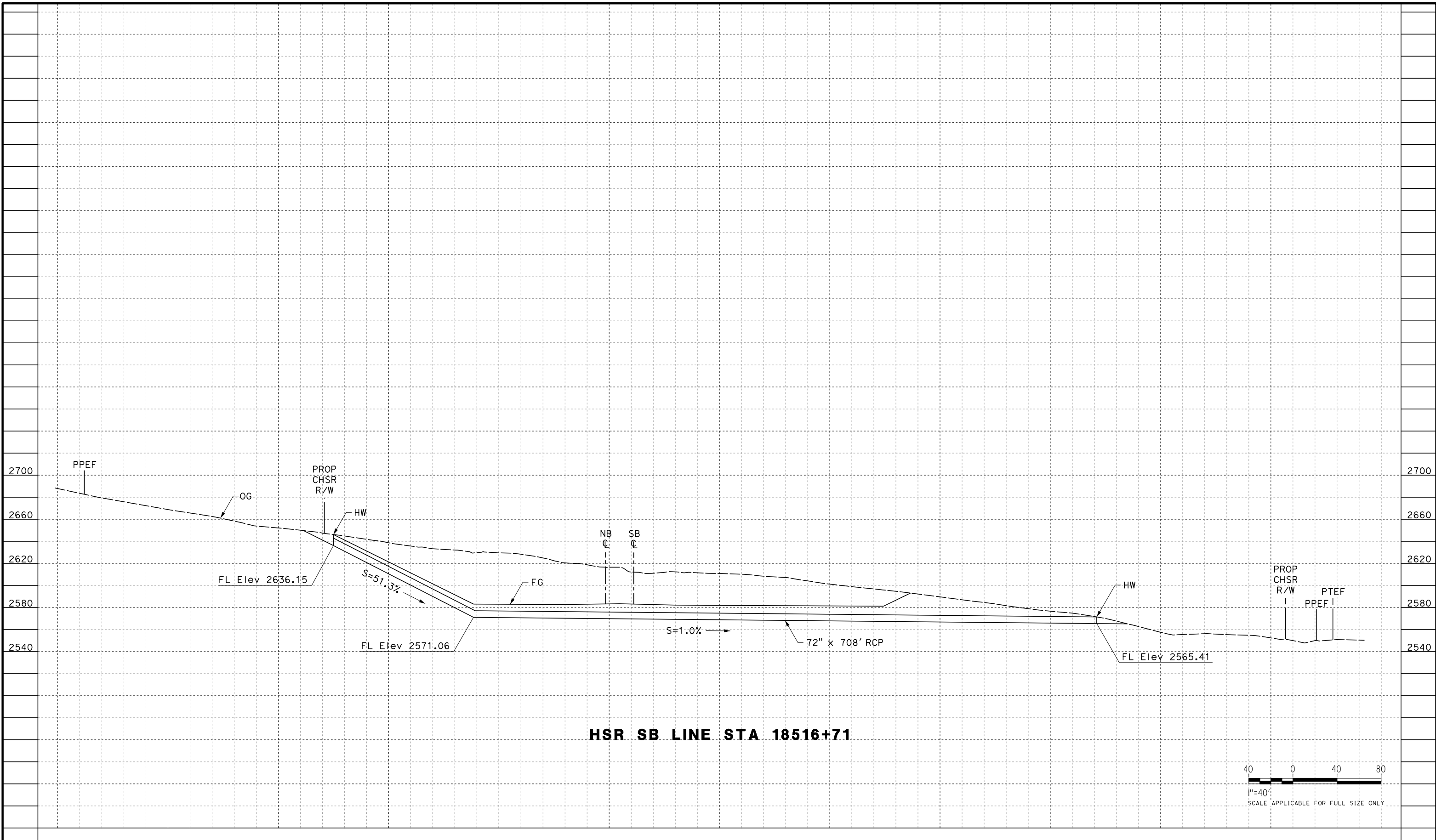
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HSR13-44
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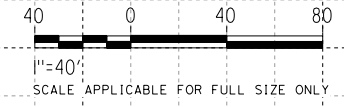
1:22:36 AM

12/22/2020

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18516+71



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18516+71

CONTRACT NO.
HSR13-44

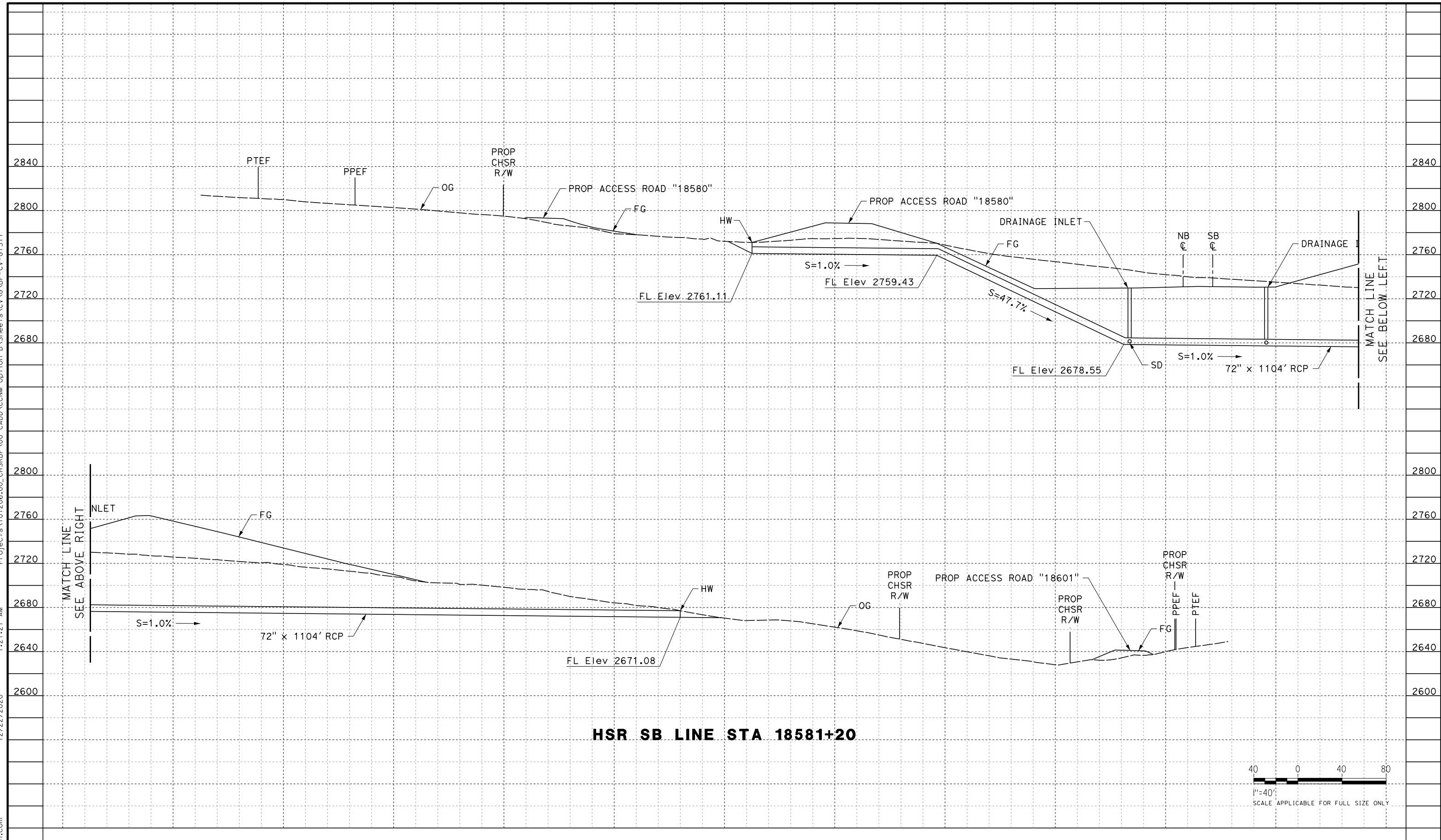
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CV-G1516

SCALE
AS SHOWN

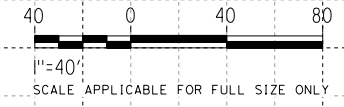
SHEET NO.
443

12/22/2020 1:21:21 AM Projects\701206.00_CHSRBP\00_CADD\CCNM_OpHion D:\Sheets\CV\G\BP-CV-G1517

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18581+20



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

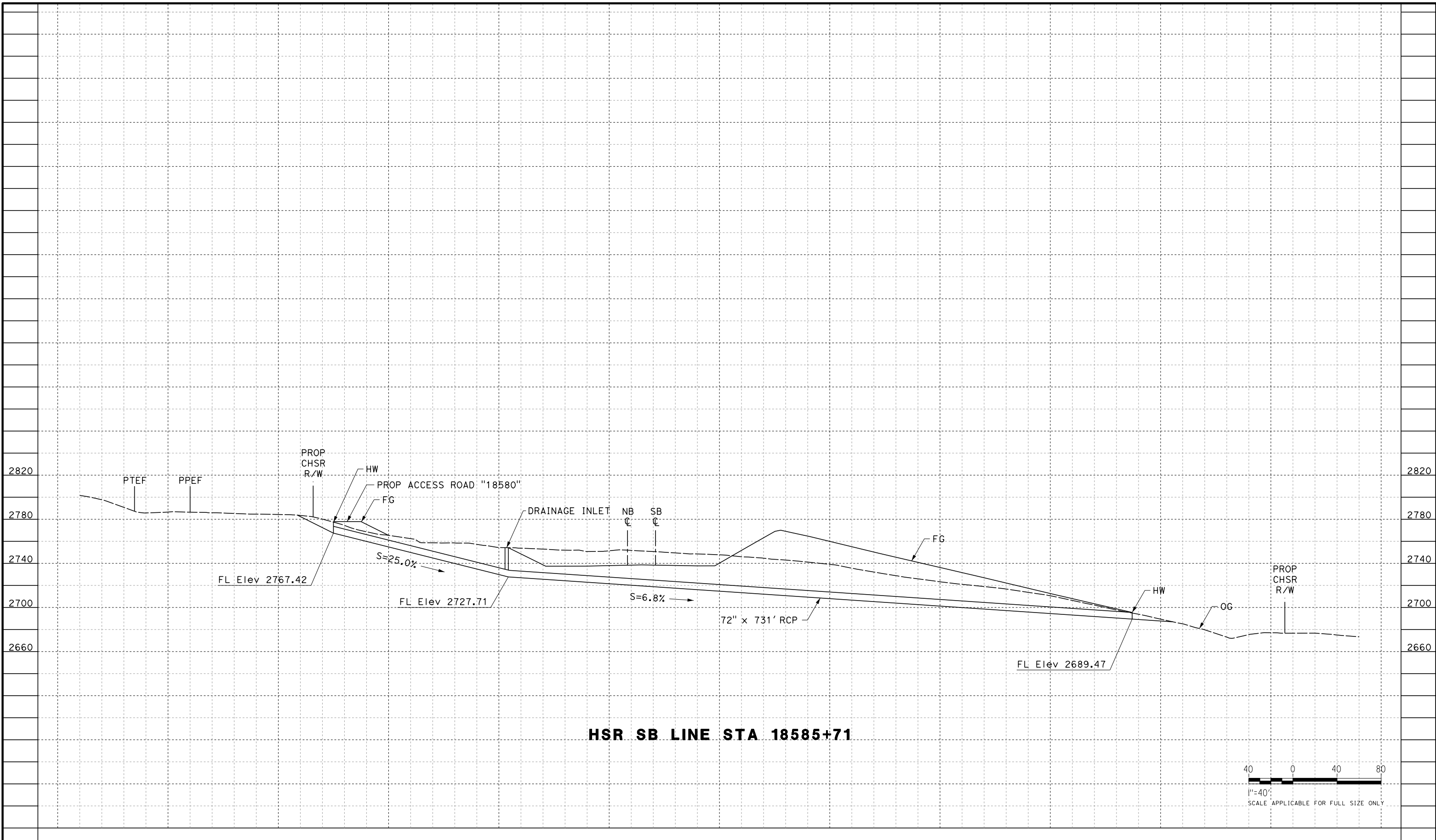


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18581+20

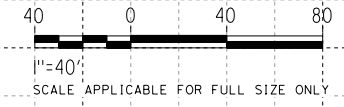
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HSR13-44
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444

Projects\701206.00_CHSRBP\00_CADD\CCNM_Op\1ion D\Sheets\CV\G\BP-CV-G1518

12/22/2020 1:22:38 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18585+71



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
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18585+71

CONTRACT NO.
HSR13-44

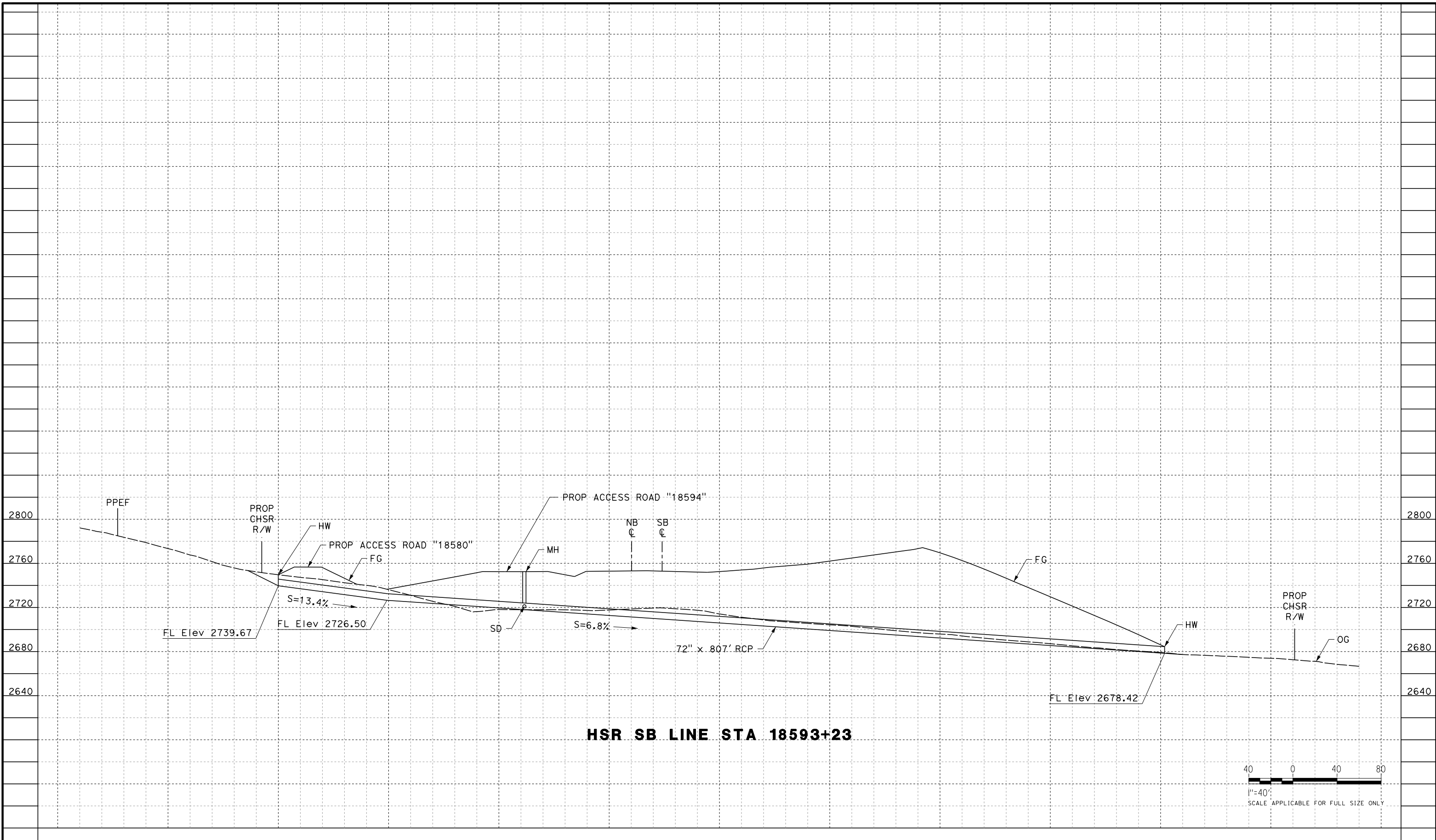
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SCALE
AS SHOWN

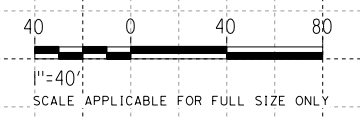
SHEET NO.
445

Projects\701206.00_CHSRBP\00_CADD\CCNM_Option_D\Sheets\CV\G\BP-CV-G1519

12/22/2020 1:21:29 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18593+23



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18593+23

CONTRACT NO.
HSR13-44

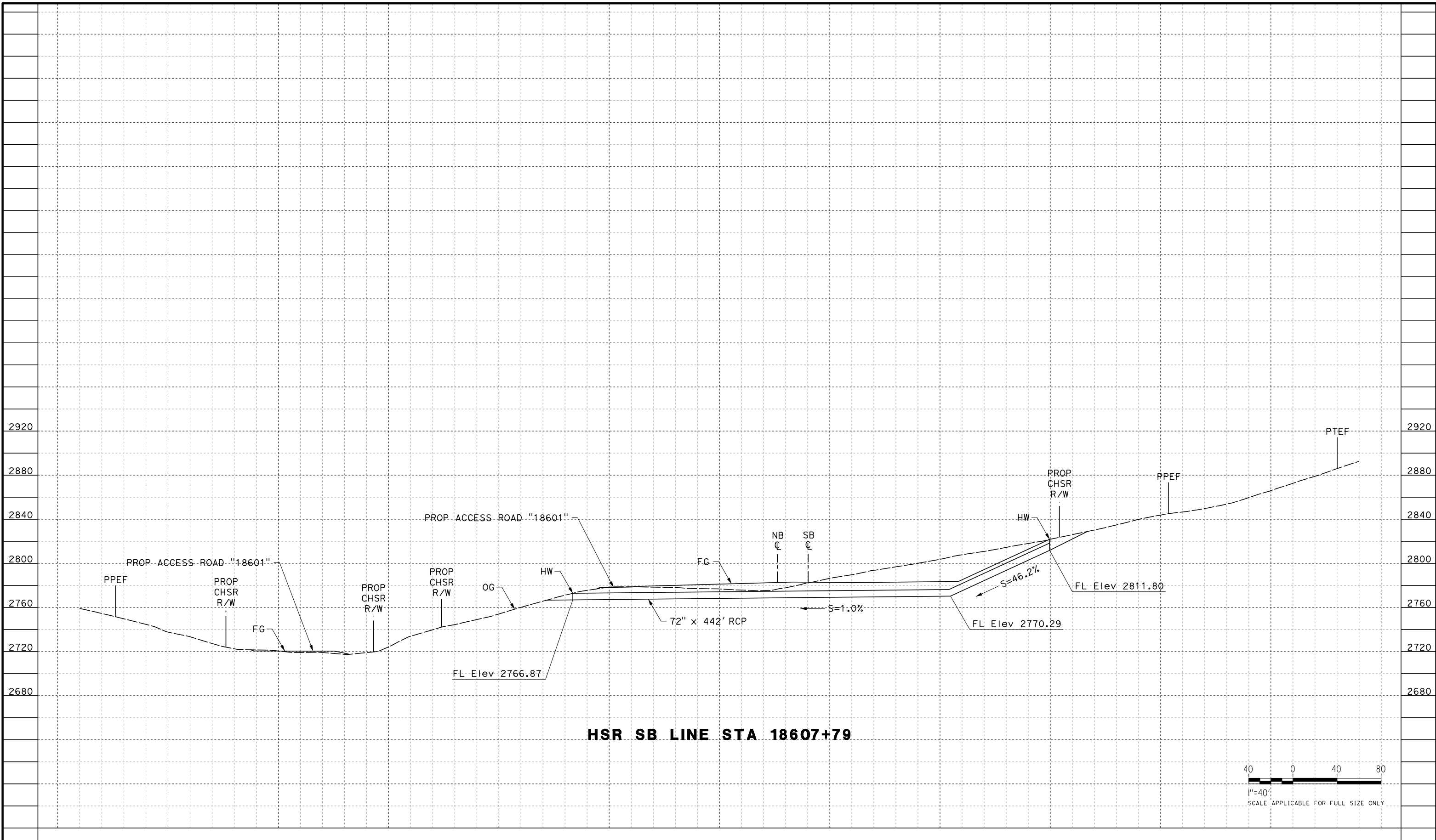
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CV-G1519

SCALE
AS SHOWN

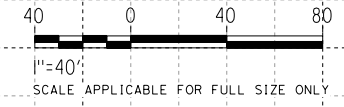
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12/22/2020 1:22:44 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18607+79

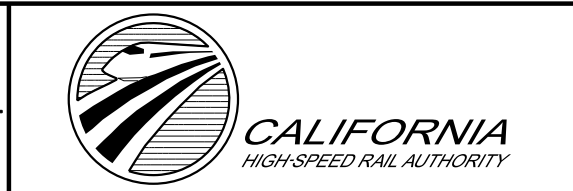


REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

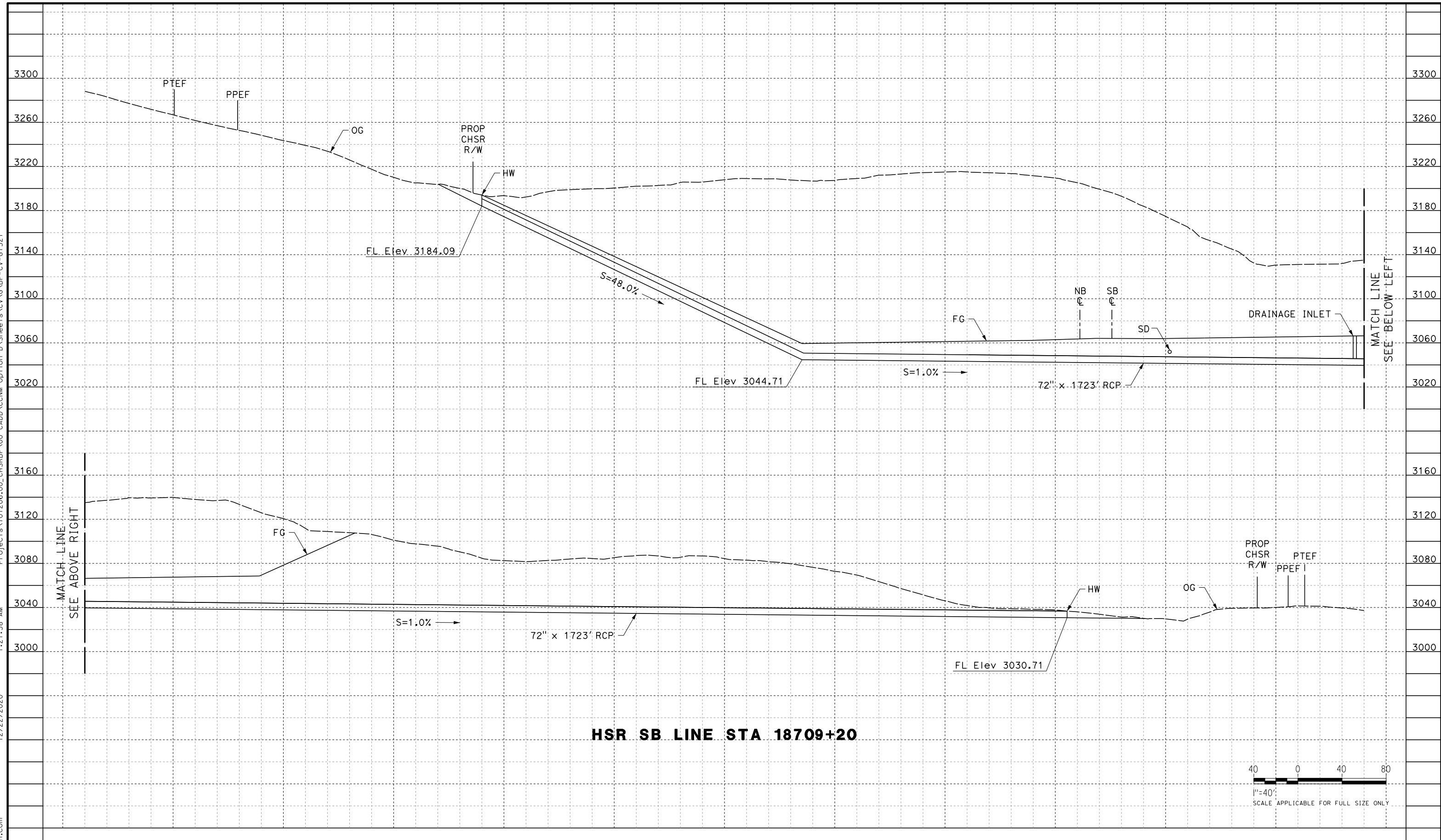


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18607+79

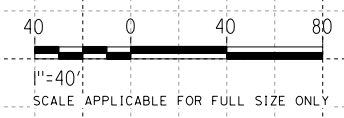
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447

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 1:21:38 AM
 12/22/2020

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18709+20



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
 PEPD
 SUBMITTAL**

**NOT FOR
 CONSTRUCTION**

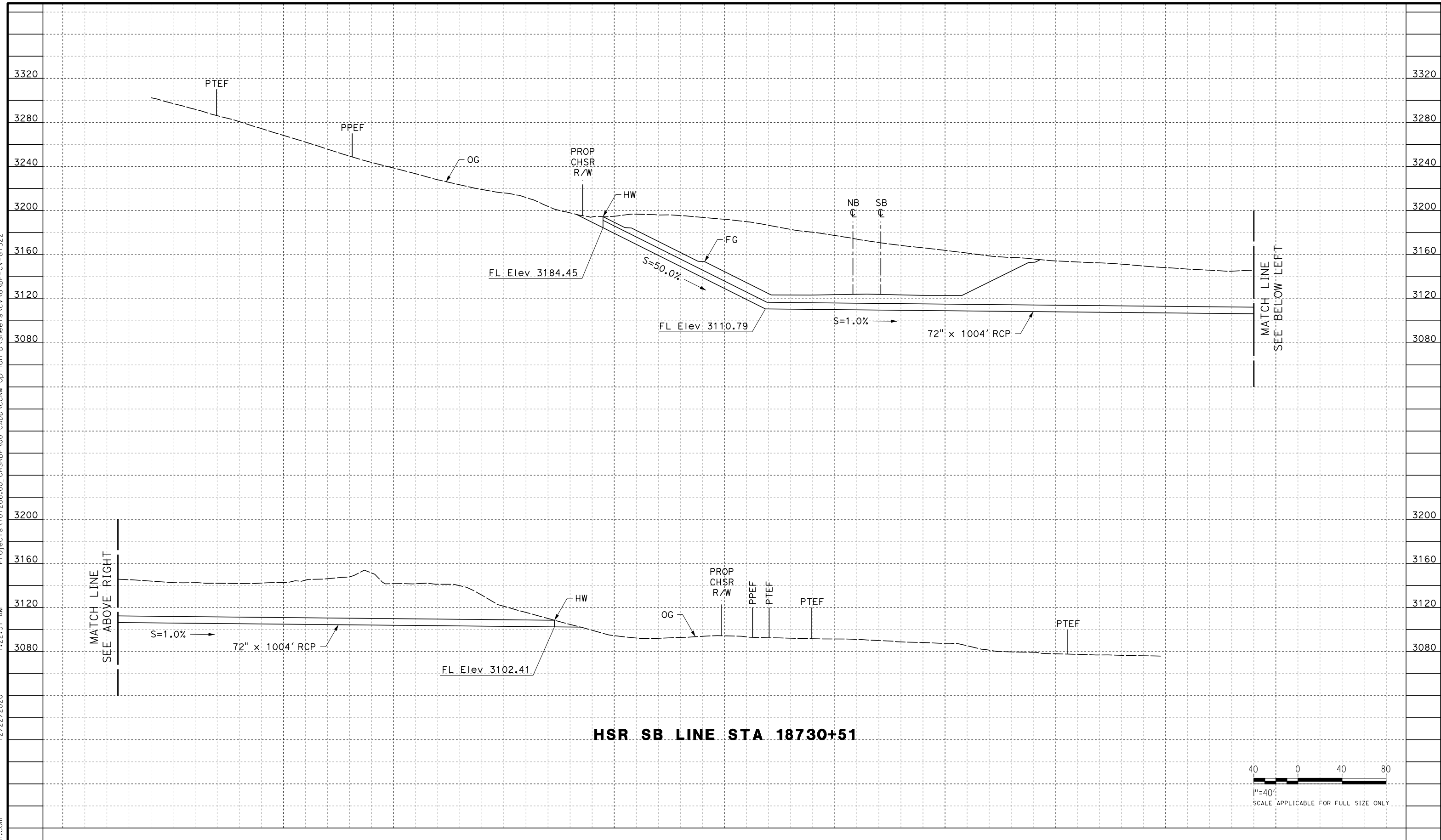


**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 REFINED CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 OFFSITE CULVERT PROFILE
 STA 18709+20

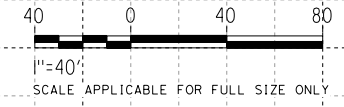
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AS SHOWN
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448

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 1:22:51 AM
 12/22/2020

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18730+51



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
 PEPD
 SUBMITTAL**

**NOT FOR
 CONSTRUCTION**

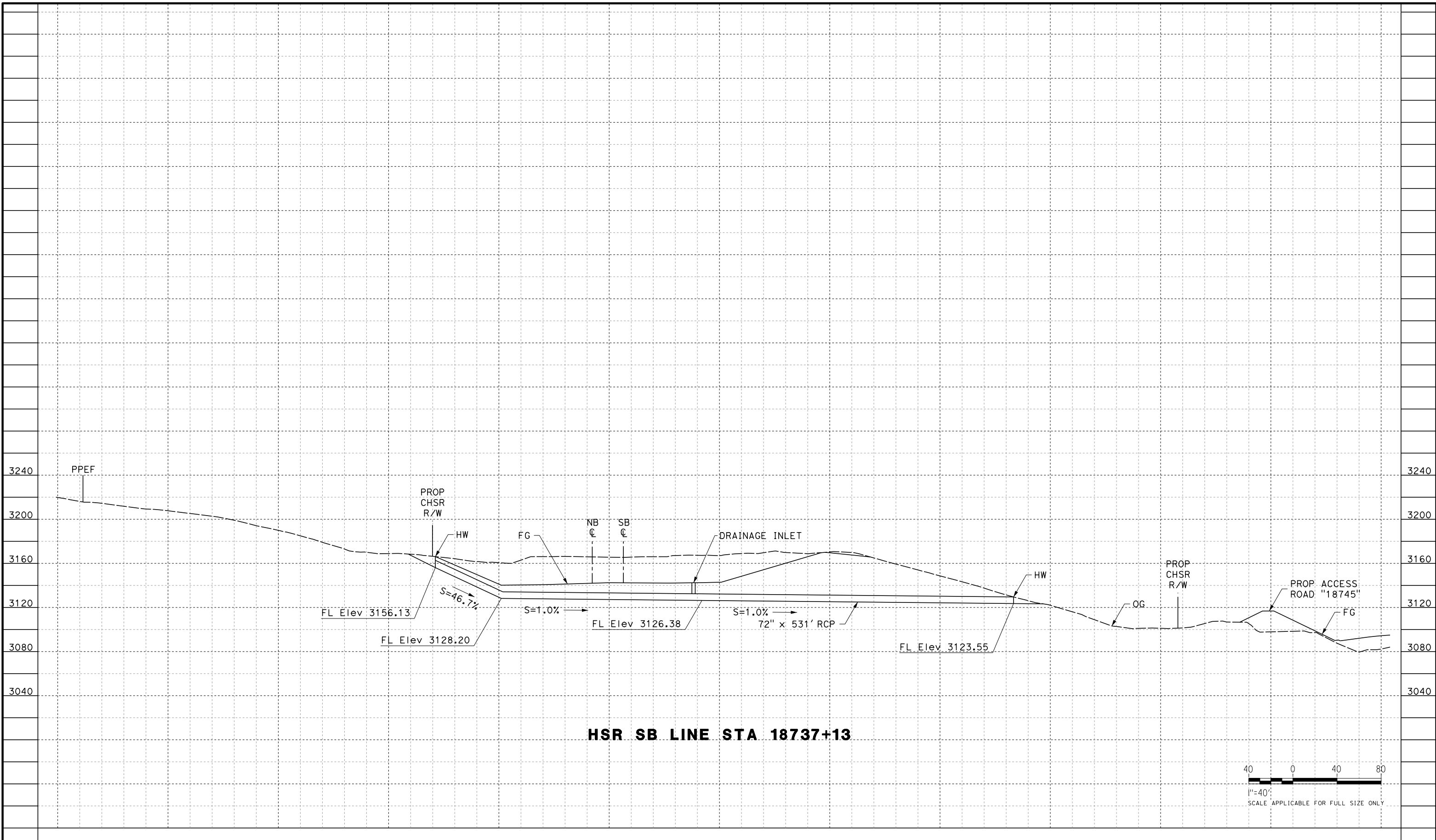


**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 REFINED CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 OFFSITE CULVERT PROFILE
 STA 18730+51

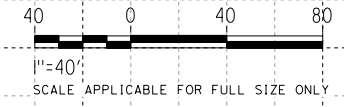
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449

Projects\701206.00_CHSRBP\00_CADD\CCNM_OpHion_D\Sheets\CV\G\BP-CV-G1523

12/22/2020 1:20:37 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18737+13



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



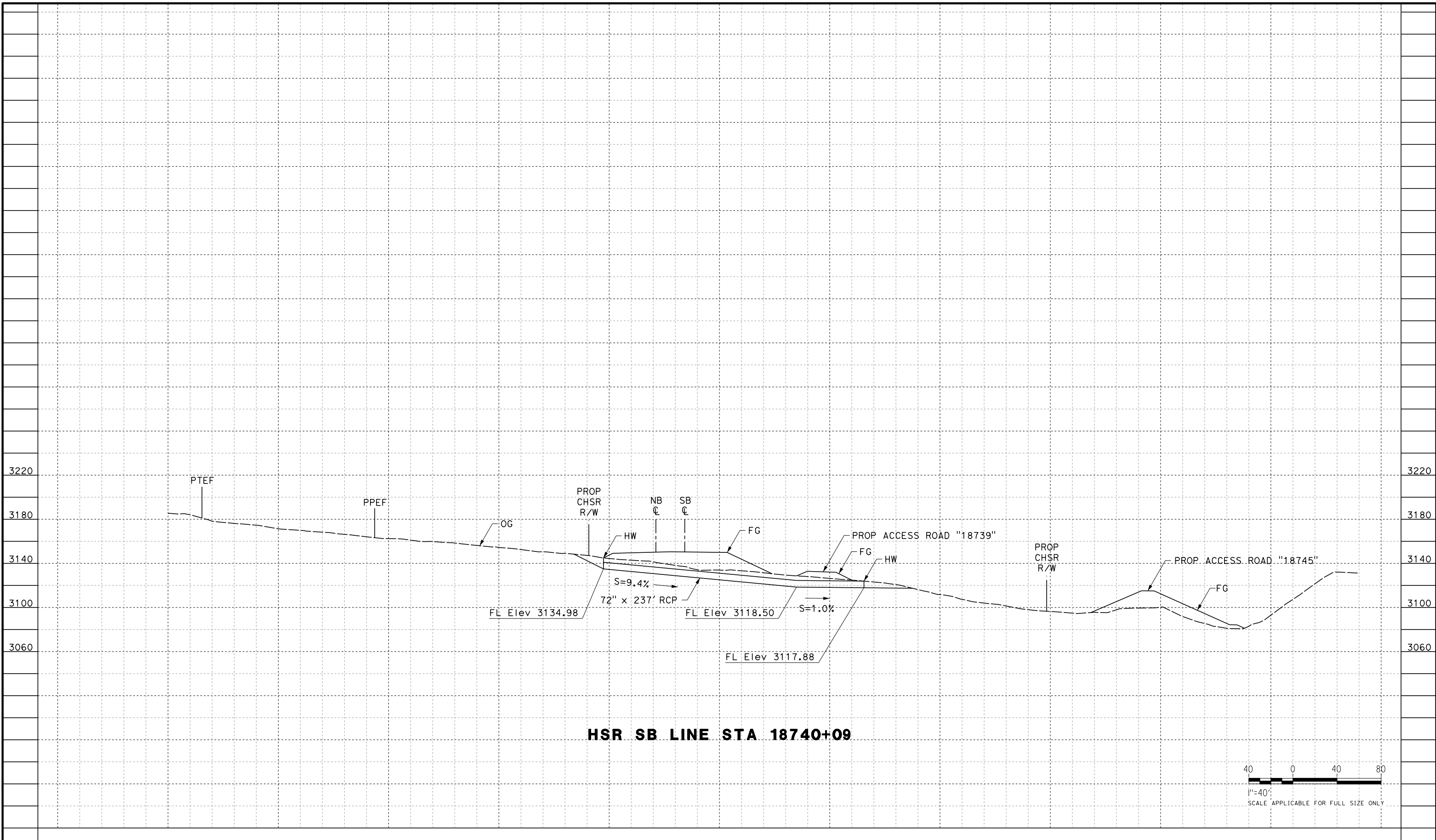
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18737+13

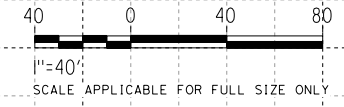
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SCALE
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450

Projects\701206.00_CHSRBP\00_CADD\CCNM_Op\1ion D\Sheets\CV\G\BP-CV-G1524
1:21:47 AM
12/22/2020

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18740+09

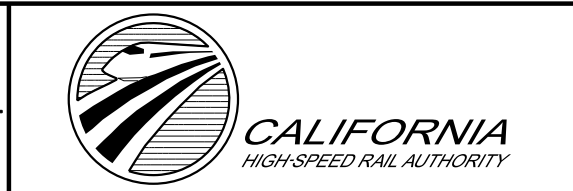


REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

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CONSTRUCTION**



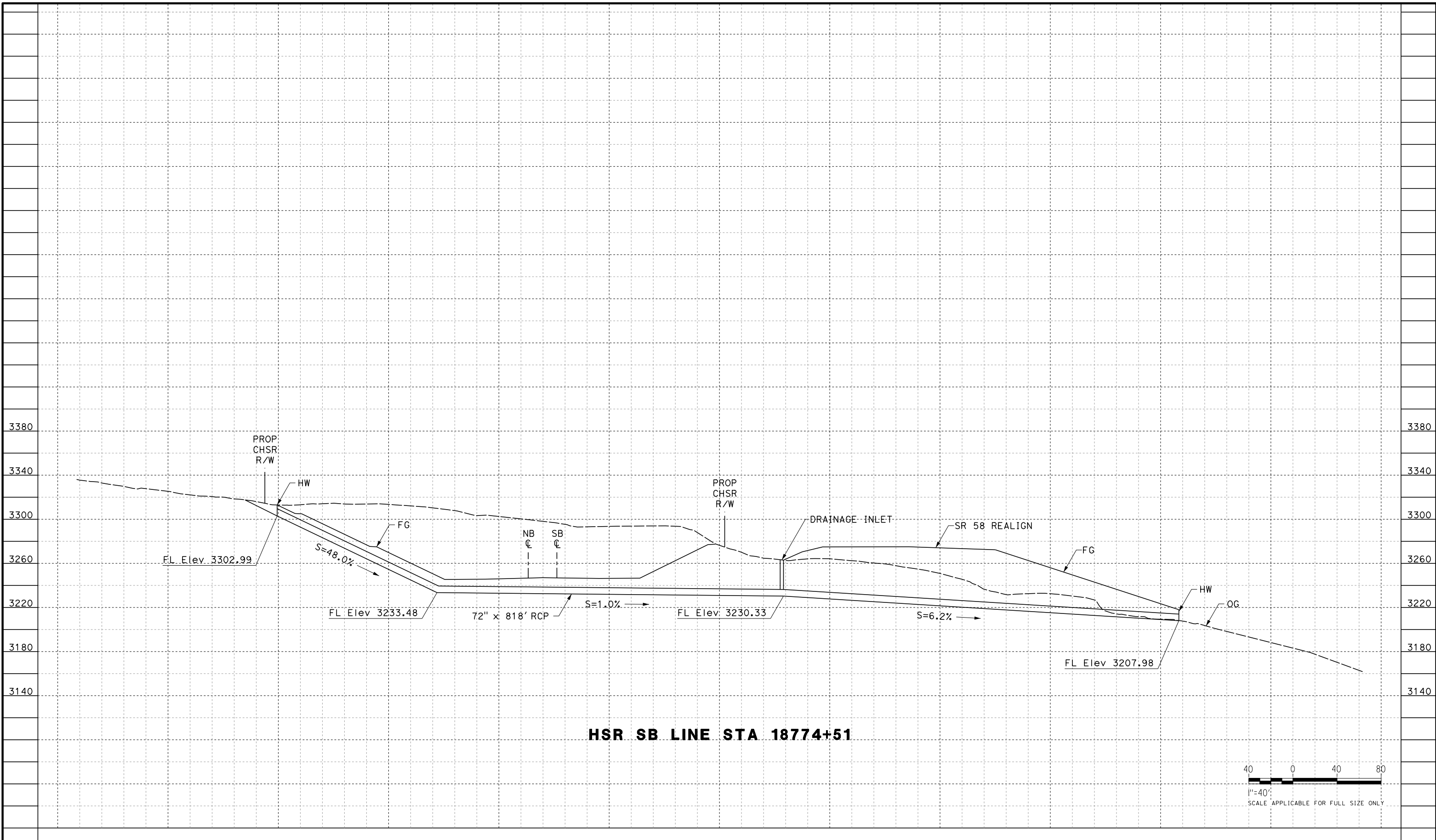
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18740+09

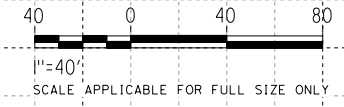
CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G1524
SCALE
AS SHOWN
SHEET NO.
451

Projects\701206.00_CHSRBP\00_CADD\CCNM_OpHion_D\Sheets\CV\G\BP-CV-G1526

12/22/2020 1:22:01 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18774+51



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

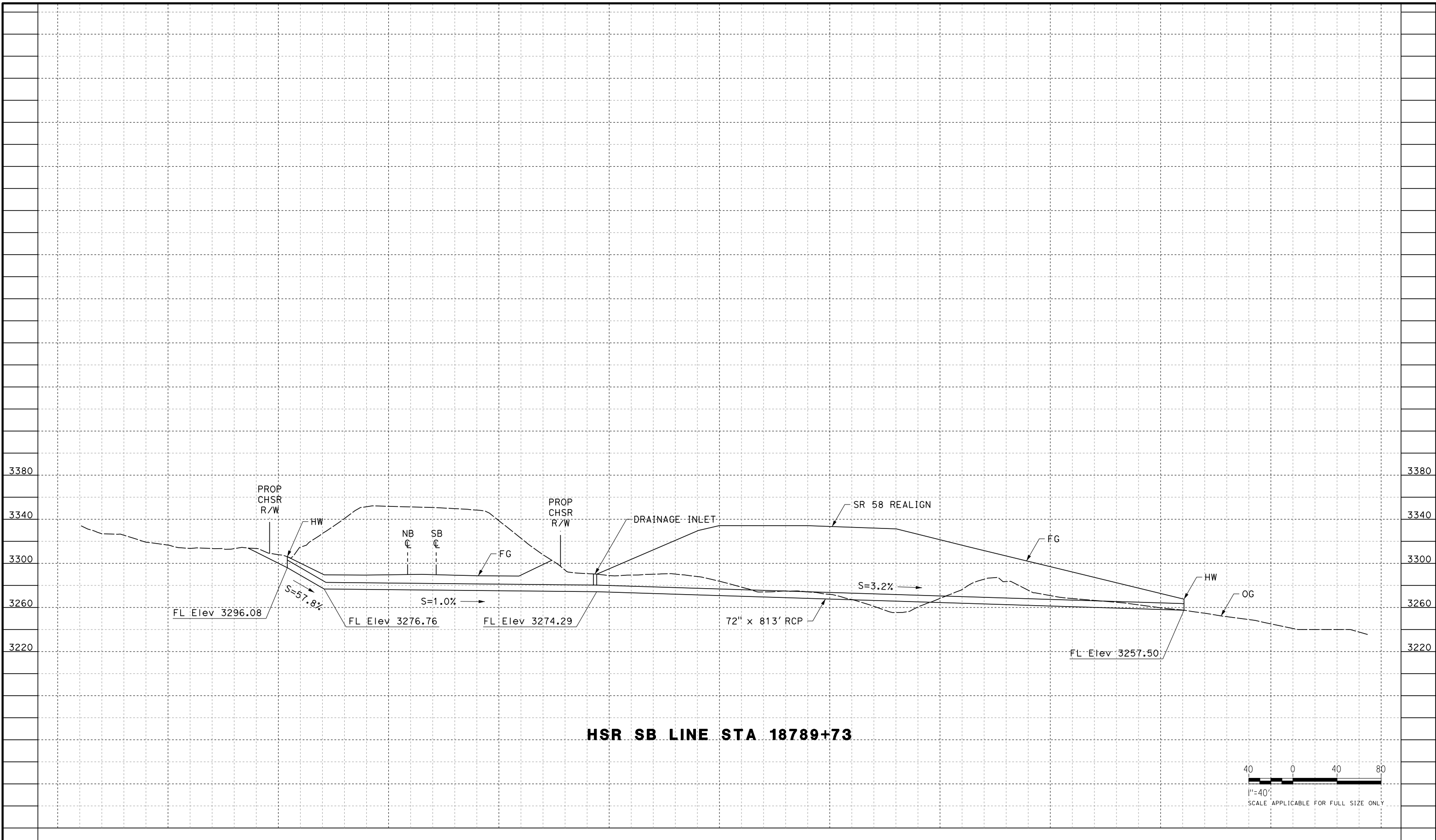


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18774+51

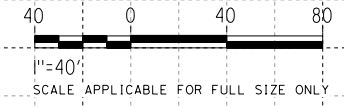
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HSR13-44
DRAWING NO.
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SCALE
AS SHOWN
SHEET NO.
452

Projects\701206.00_CHSRBP\00_CADD\CCNM_Op\1ion D\Sheets\CV\G\BP-CV-G1527
 1:23:28 AM
 12/22/2020

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18789+73



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
 PEPD
 SUBMITTAL**

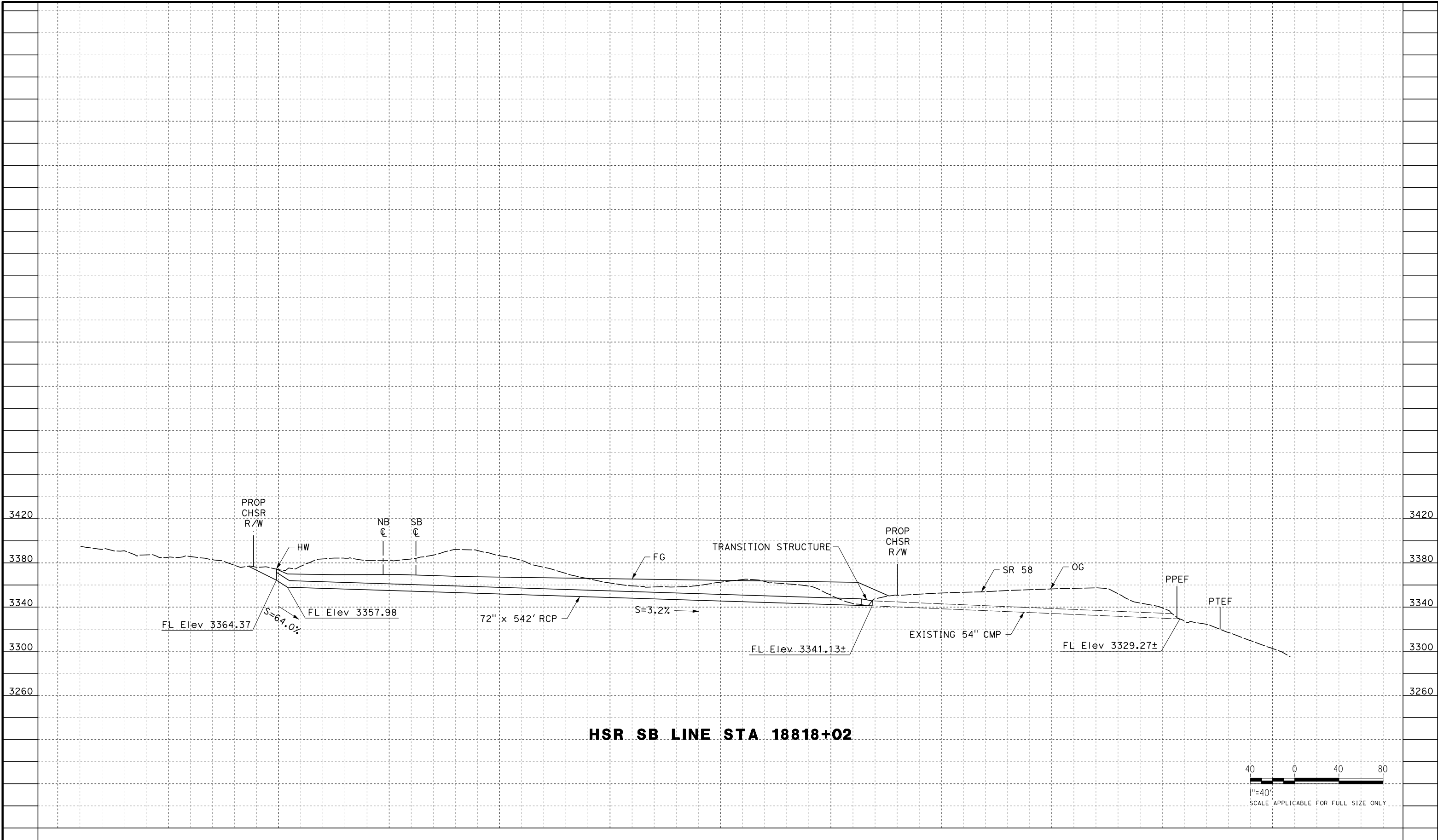
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 CONSTRUCTION**



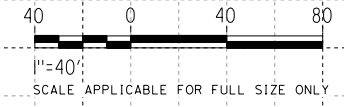
**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 REFINED CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 OFFSITE CULVERT PROFILE
 STA 18789+73

CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-G1527
 SCALE
AS SHOWN
 SHEET NO.
453

Projects\701206.00_CHSRBP\00_CADD\CCNM_Op\1ion D\Sheets\CV\G\BP-CV-G1528
 12/22/2020 1:21:40 AM



HSR SB LINE STA 18818+02



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
 PEPD
 SUBMITTAL**

**NOT FOR
 CONSTRUCTION**



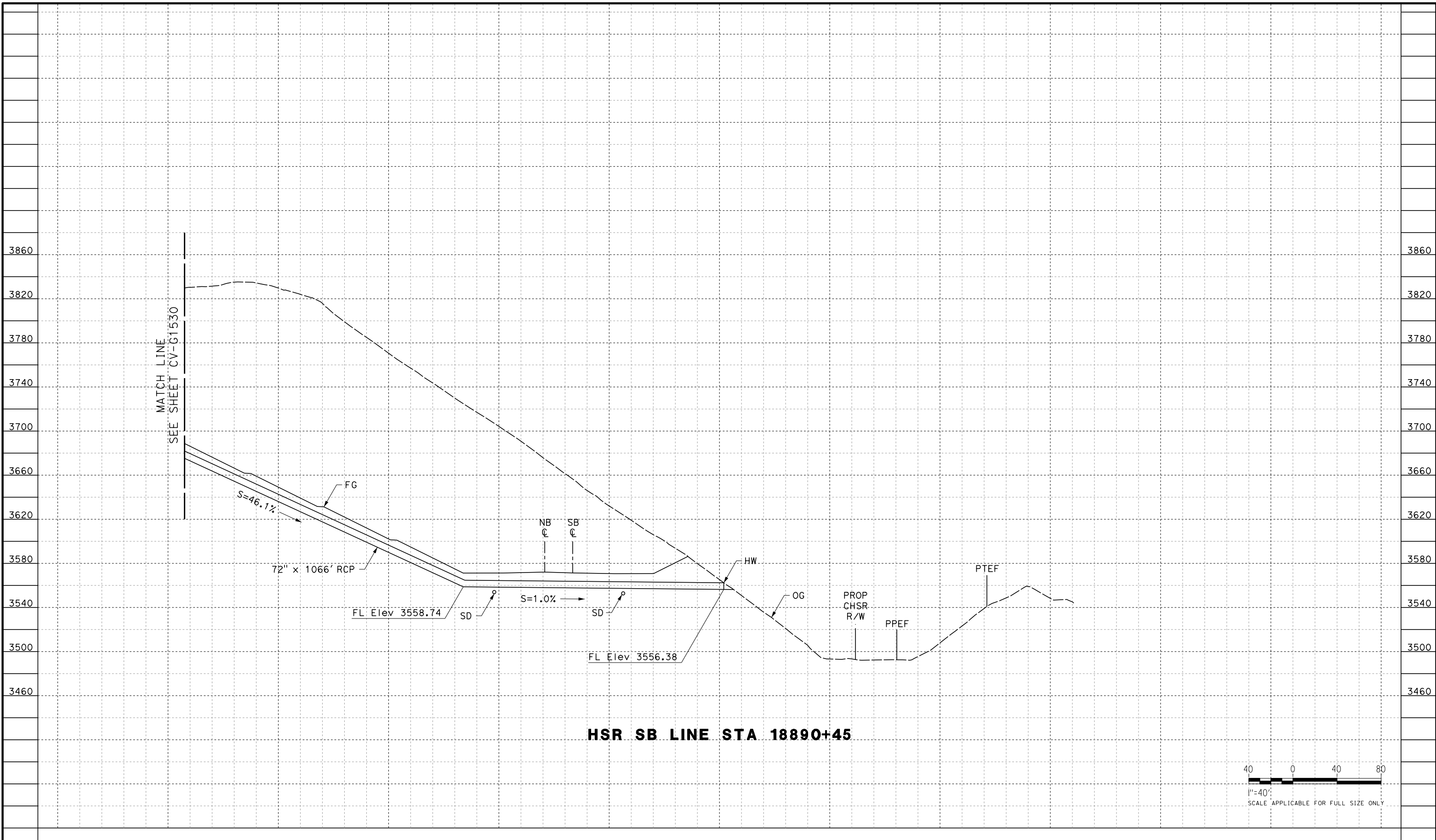
**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 REFINED CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 OFFSITE CULVERT PROFILE
 STA 18818+02

CONTRACT NO.
HSR13-44
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CV-G1528
 SCALE
AS SHOWN
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454

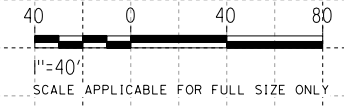
Glenn.Yamanaka@tylin.com

Projects\701206.00_CHSRBP\00_CADD\CCNM_OpHion D\Sheets\CV\G\BP-CV-G1529

12/22/2020 1:22:42 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18890+45



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18890+45

CONTRACT NO.
HSR13-44

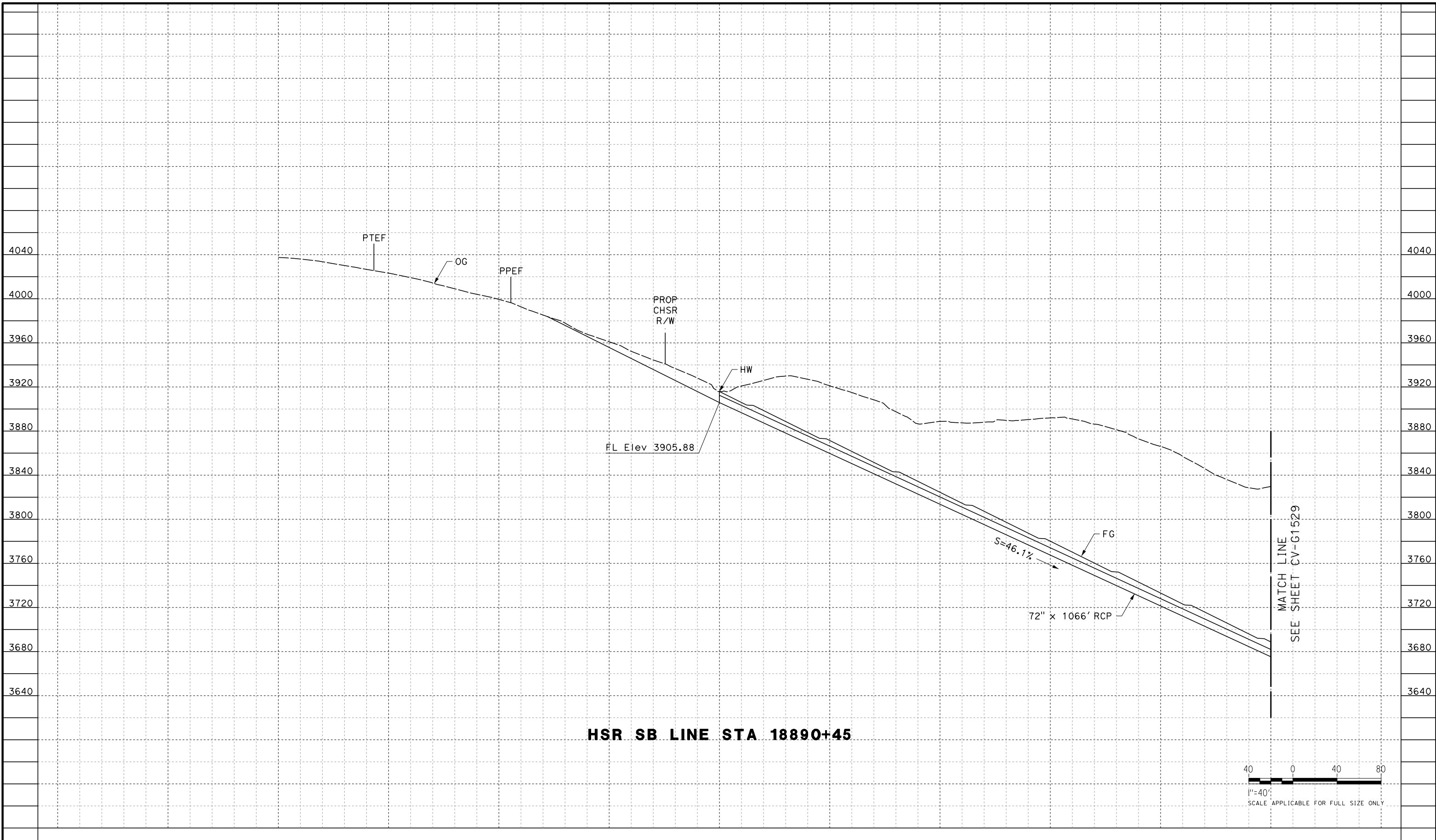
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SCALE
AS SHOWN

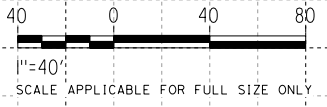
SHEET NO.
455

12/22/2020 1:21:45 AM Projects\701206.00_CHSRBP\00_CADD\CCNM_Op\Hion D\Sheets\CV\G\BP-CV-G1530

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18890+45



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18890+45

CONTRACT NO.
HSR13-44

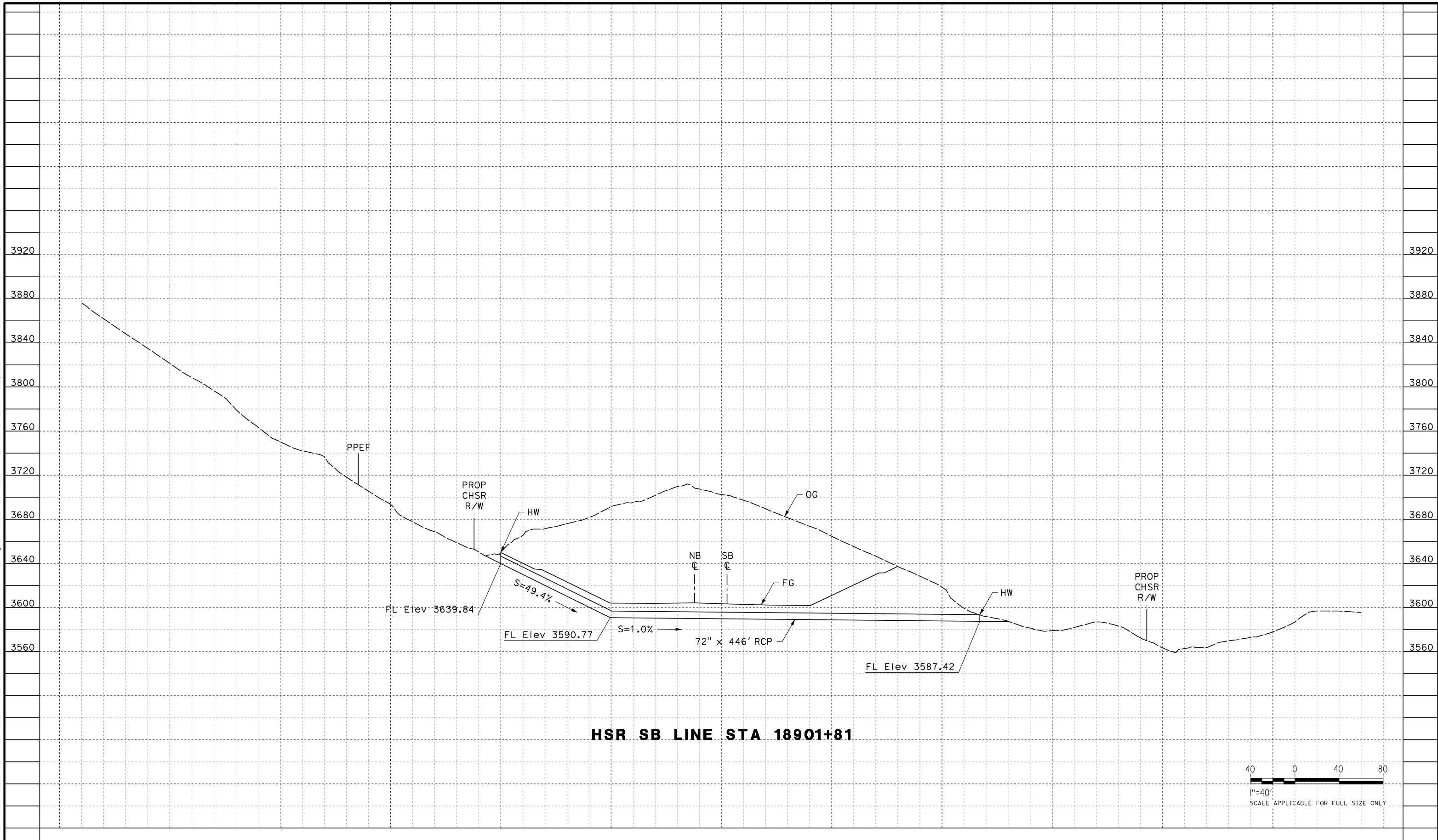
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SCALE
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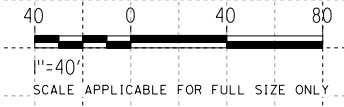
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Projects\701206.00_CHSRBP\00_CADD\CCNM_OpHion_D\Sheets\CV\GABP-CV-G1531

12/22/2020 1:22:49 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18901+81

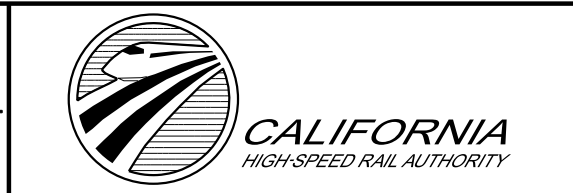


REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

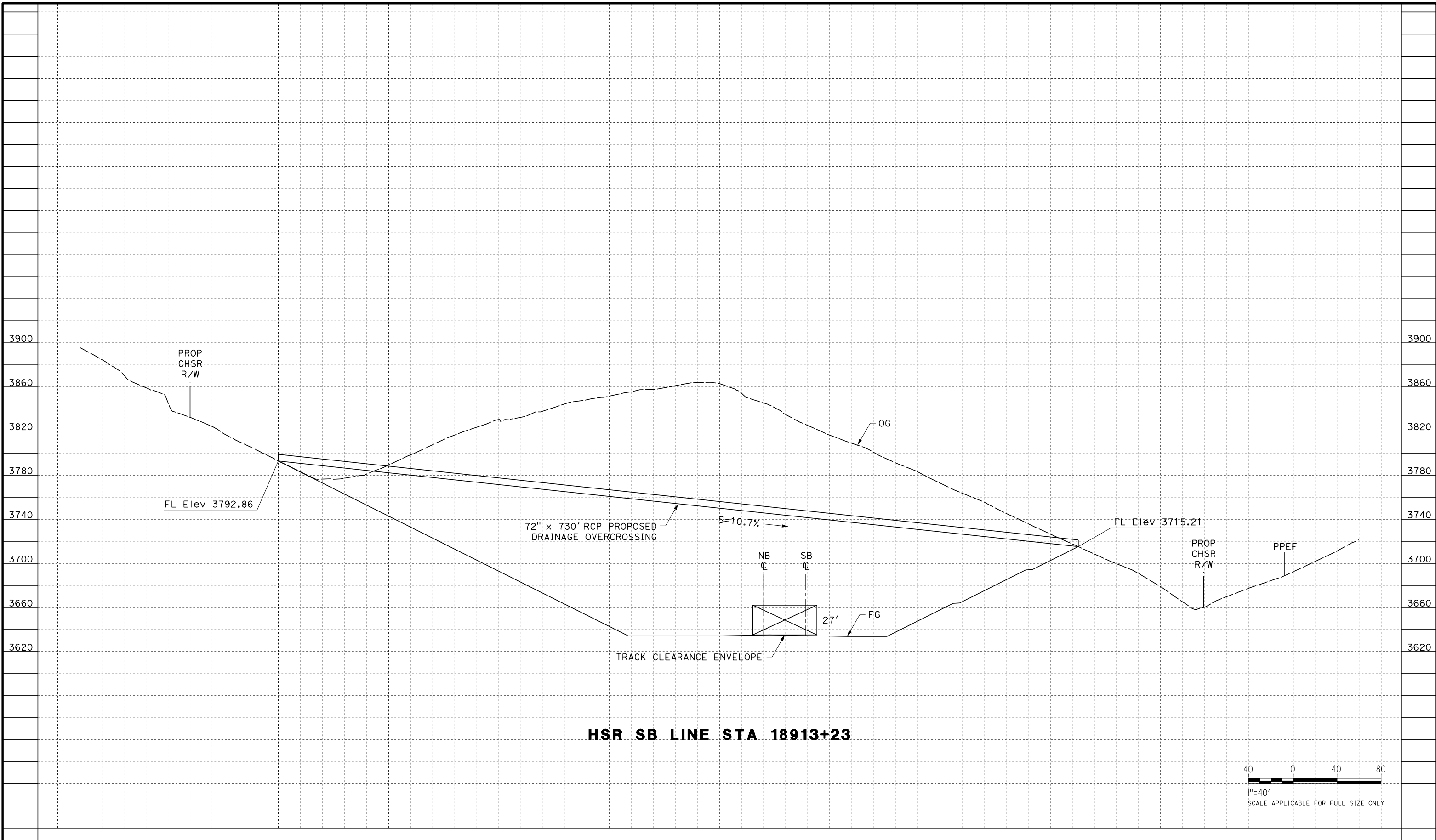


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18901+81

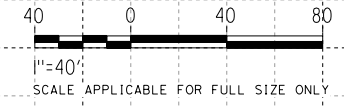
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SCALE
AS SHOWN
SHEET NO.
457

Projects\701206.00_CHSRBP\00_CADD\CCNM_OpHion D\Sheets\CV\G\BP-CV-G1532
 1:20:46 AM
 12/22/2020

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18913+23



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
 PEPD
 SUBMITTAL**

**NOT FOR
 CONSTRUCTION**

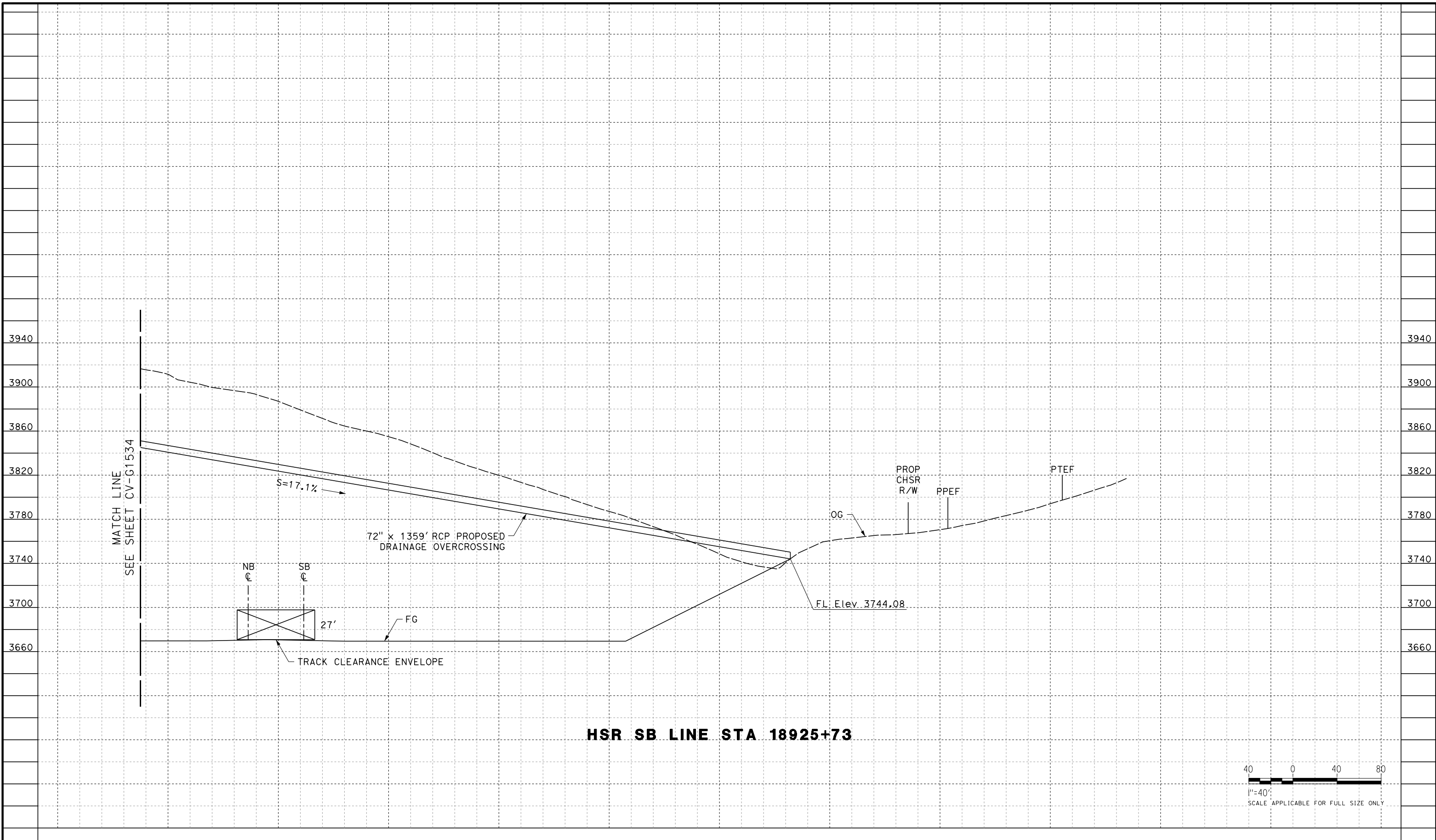


**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 REFINED CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 OFFSITE CULVERT PROFILE
 STA 18913+23

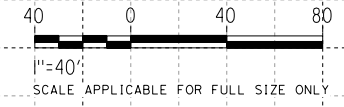
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HSR13-44
 DRAWING NO.
CV-G1532
 SCALE
AS SHOWN
 SHEET NO.
458

Projects\701206.00_CHSRBP\00_CADD\CCNM_Option D\Sheets\CV\G\BP-CV-G1533

12/22/2020 1:22:55 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18925+73



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18925+73

CONTRACT NO.
HSR13-44

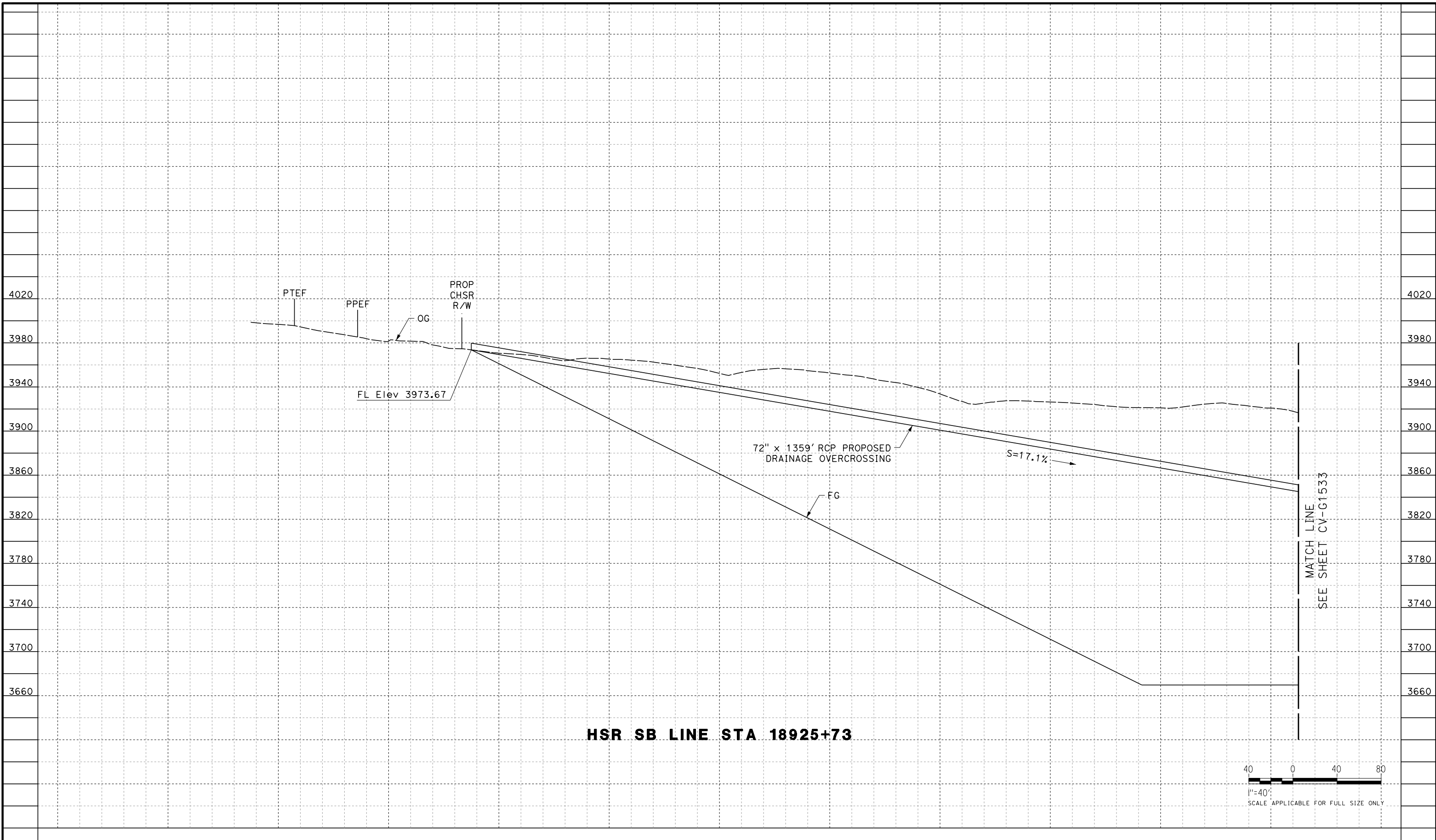
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SCALE
AS SHOWN

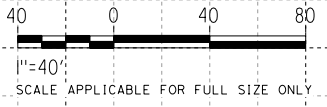
SHEET NO.
459

Projects\701206.00_CHSRBP\00_CADD\CCNM_OpHion D\Sheets\CV\G\BP-CV-G1534

12/22/2020 1:22:10 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18925+73



MATCH LINE
SEE SHEET CV-G1533

REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18925+73

CONTRACT NO.
HSR13-44

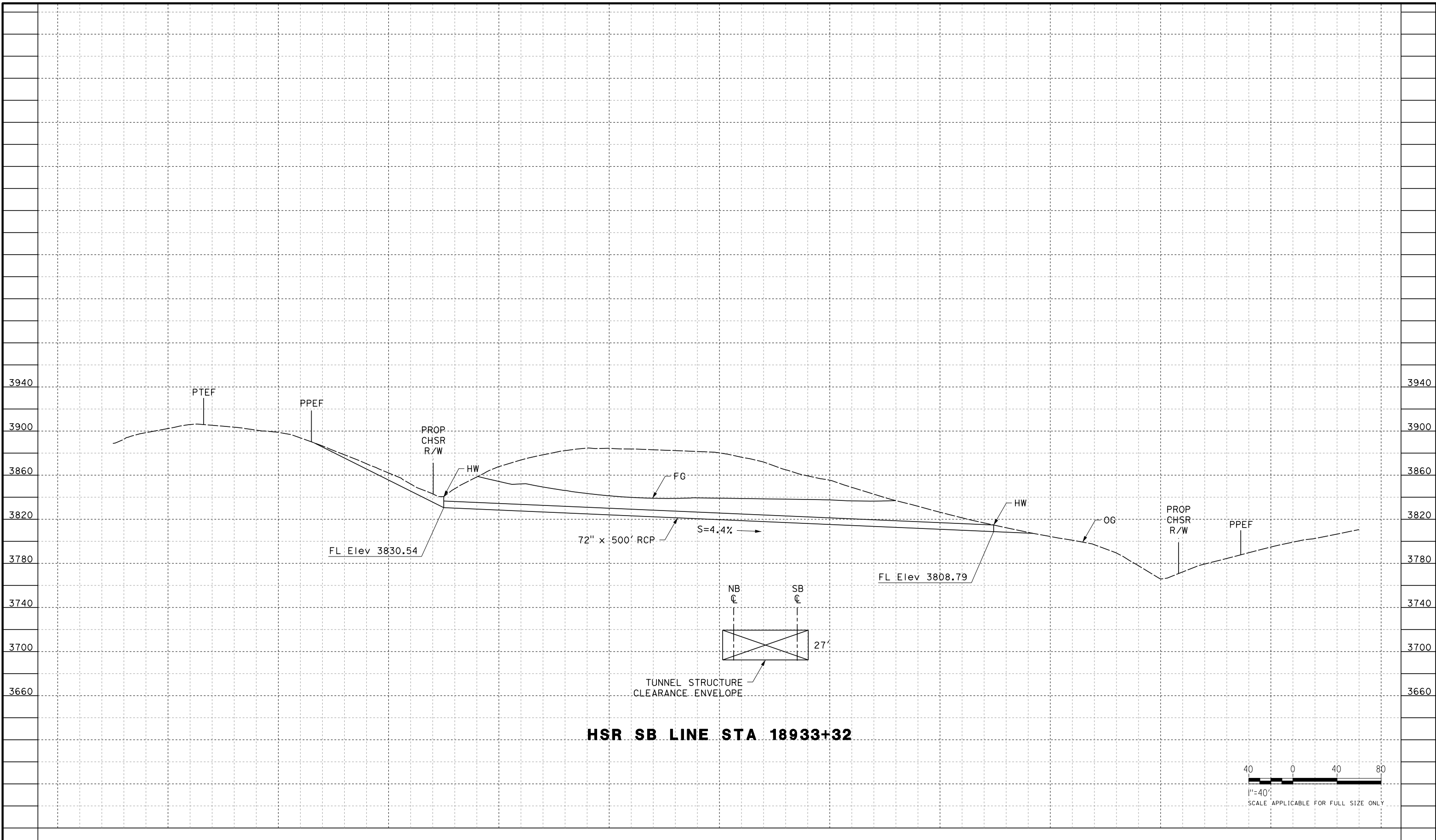
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CV-G1534

SCALE
AS SHOWN

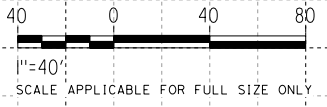
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Projects\701206.00_CHSRBP\00_CADD\CCNM_OpHion_D\Sheets\CV\G\BP-CV-G1535

12/22/2020 1:22:59 AM Glenn.Yamanaka@tylin.com



HSR SB LINE STA 18933+32

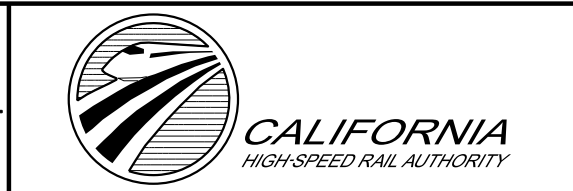


REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

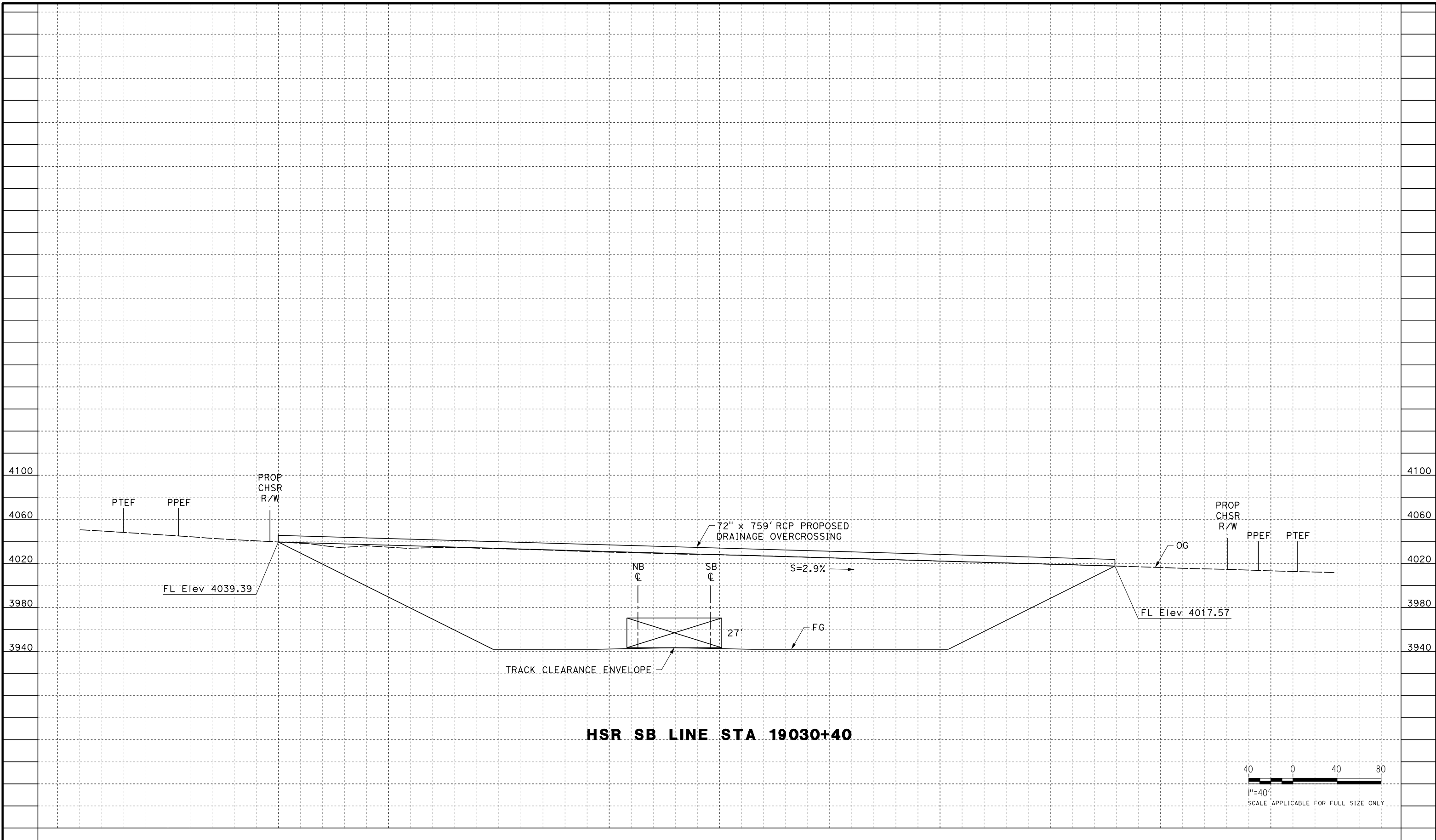


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18933+32

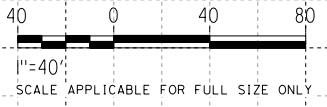
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DRAWING NO.
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SCALE
AS SHOWN
SHEET NO.
461

Projects\701206.00_CHSRBP\00_CADD\CCNM_OpHion_D\Sheets\CV\G\BP-CV-G1536
 12/22/2020 1:22:20 AM

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 19030+40



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
 PEPD
 SUBMITTAL**

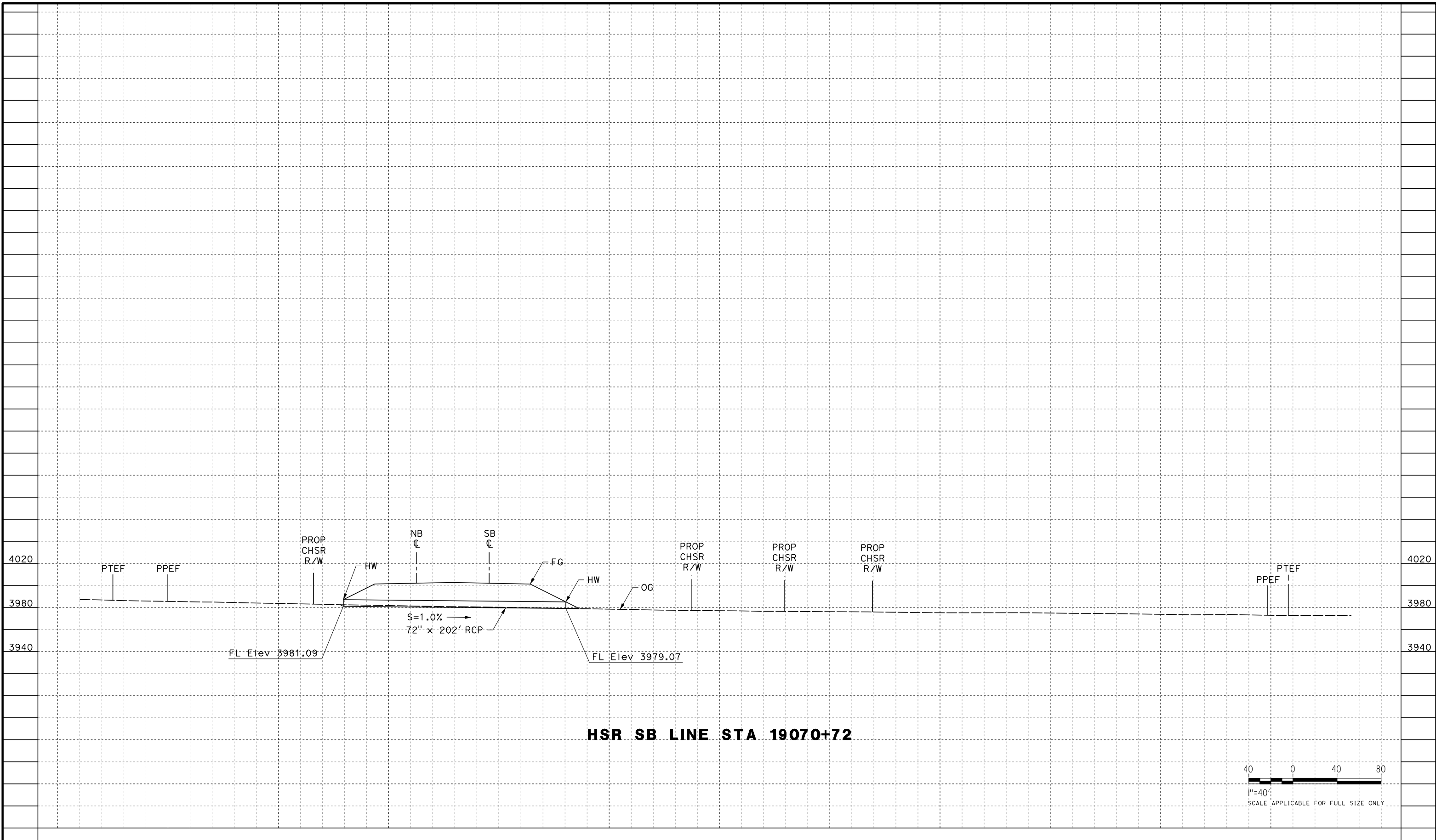
**NOT FOR
 CONSTRUCTION**



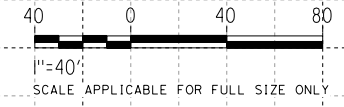
**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 REFINED CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 OFFSITE CULVERT PROFILE
 STA 19030+40

CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-G1536
 SCALE
AS SHOWN
 SHEET NO.
462

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 1:21:57 AM
 12/22/2020



HSR SB LINE STA 19070+72



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
 PEPD
 SUBMITTAL**

**NOT FOR
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 BAKERSFIELD TO PALMDALE**
 REFINED CCNM DESIGN OPTION
 GRADING AND DRAINAGE
 OFFSITE CULVERT PROFILE
 STA 19070+72

CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-G1537
 SCALE
AS SHOWN
 SHEET NO.
463

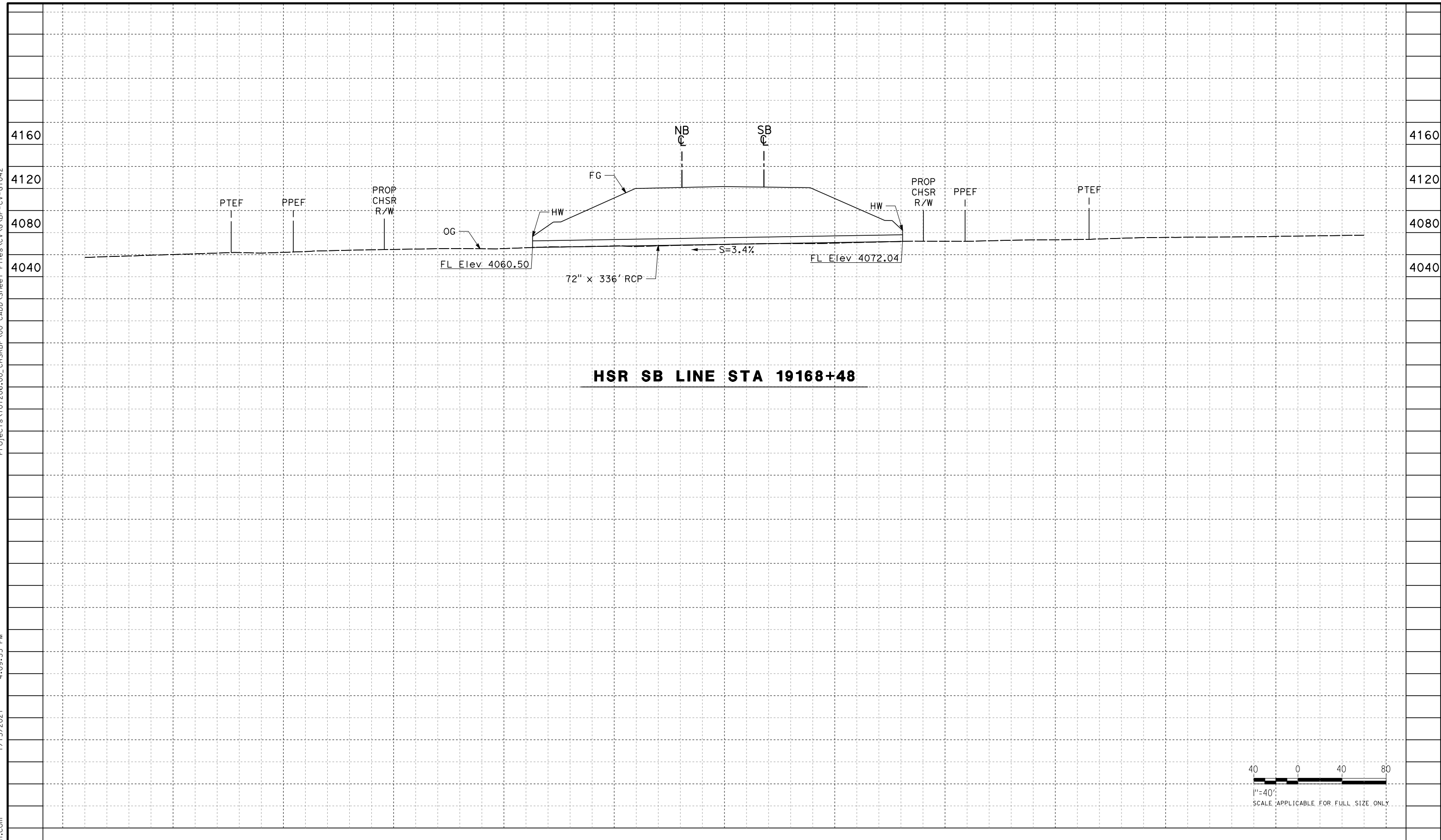
Glenn.Yamanaka@tylin.com

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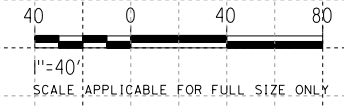
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1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 19168+48



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 19168

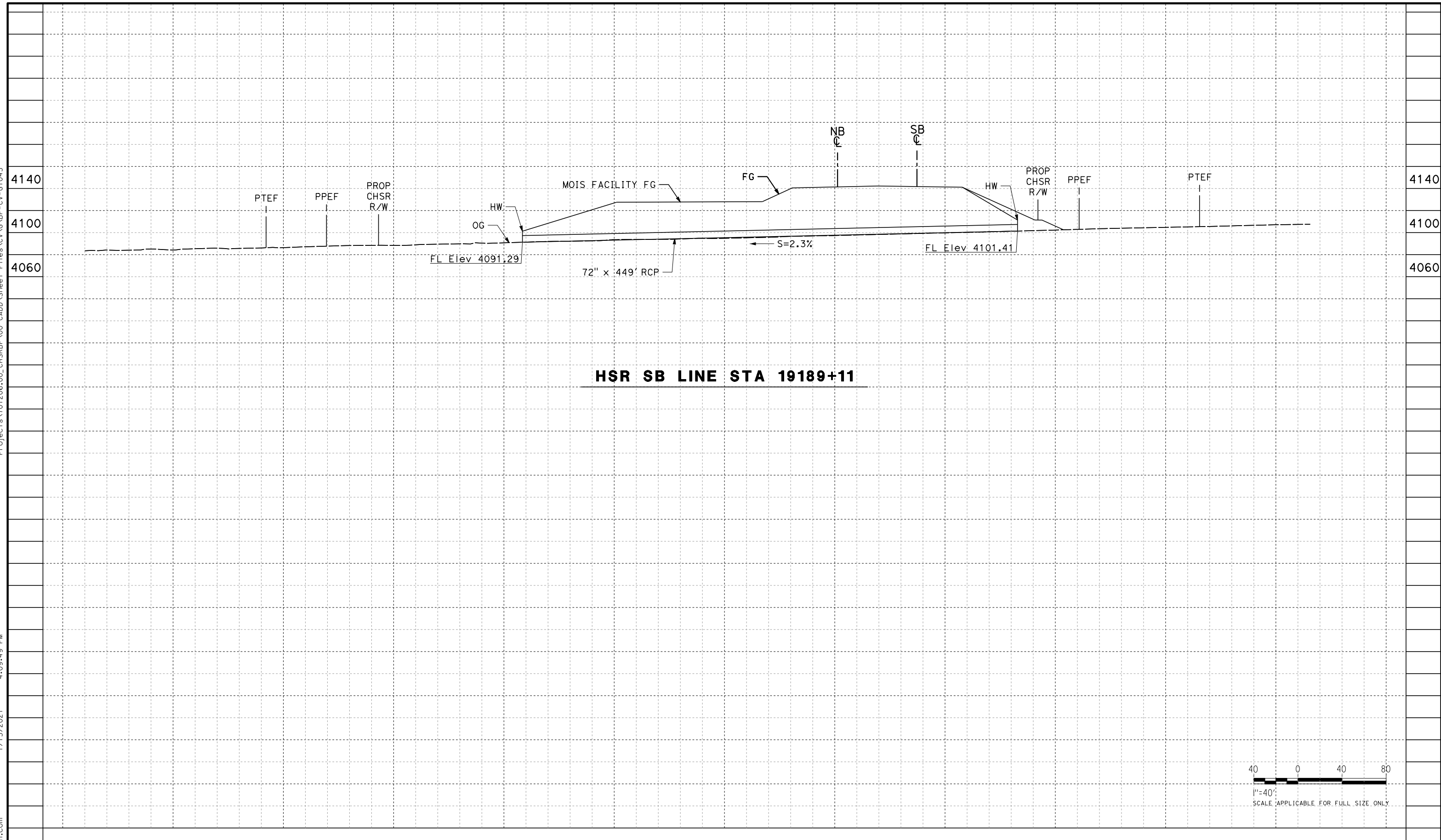
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DRAWING NO.
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SCALE
AS SHOWN
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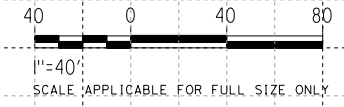
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1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 19189+11



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA

DRAWN BY
A. DEL CASTILLO

CHECKED BY
G. CAMPBELL

IN CHARGE
G. CAMPBELL

DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 19189

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1043

SCALE
AS SHOWN

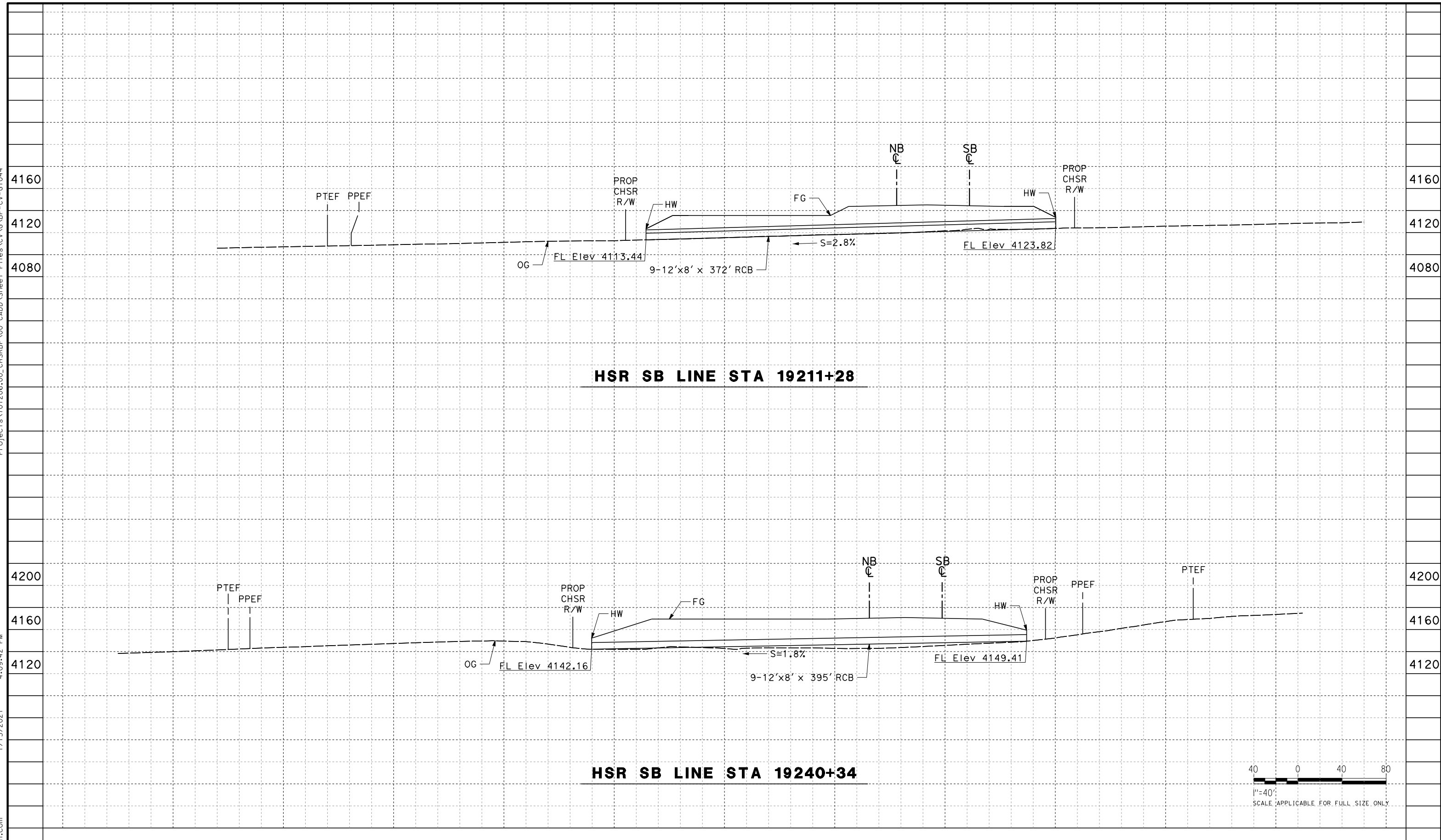
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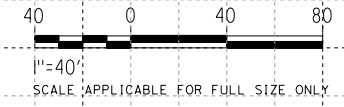
1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 19211+28

HSR SB LINE STA 19240+34



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 19211, 19240

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1044

SCALE
AS SHOWN

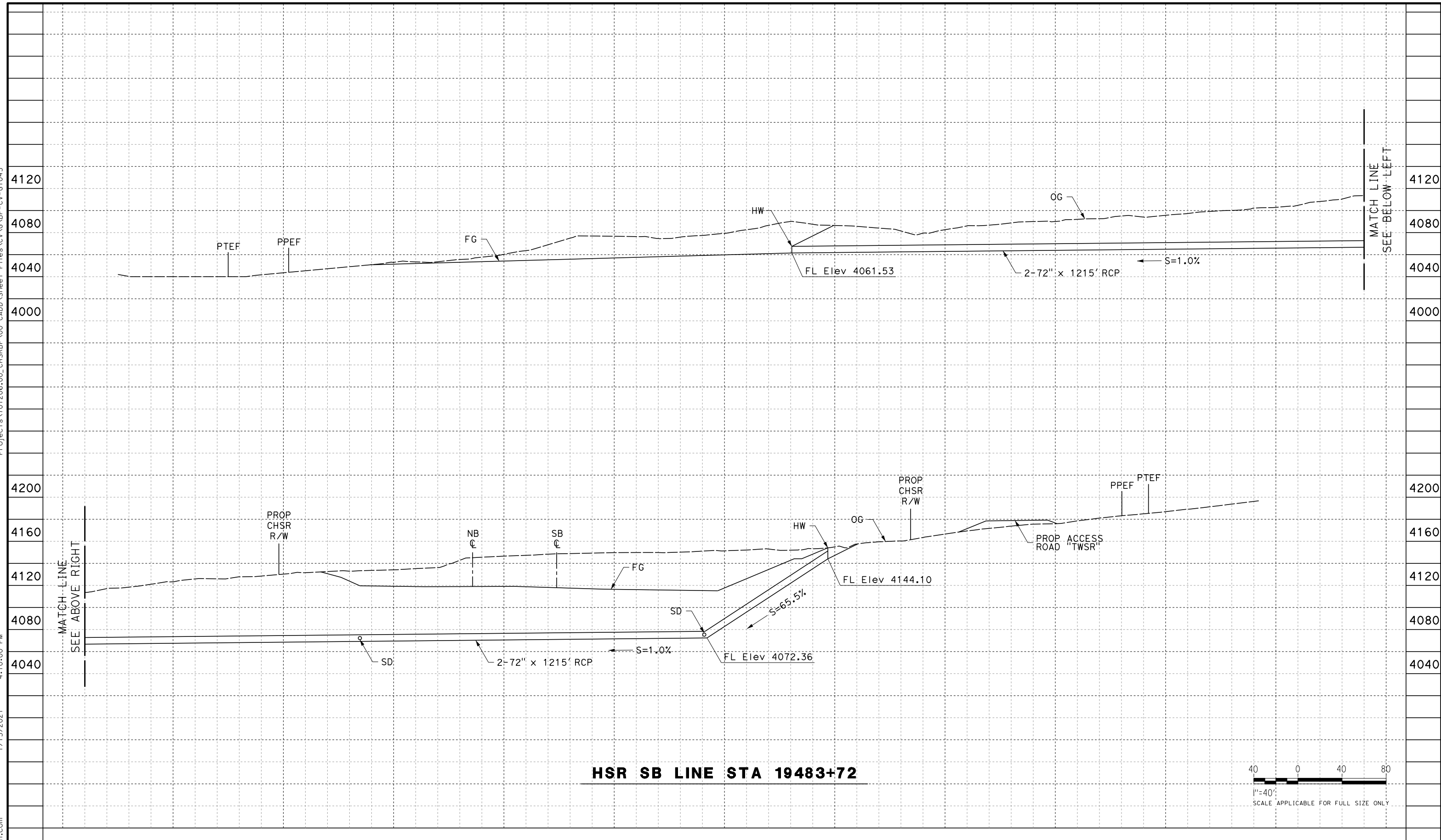
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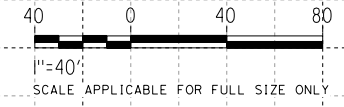
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1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 19483+72

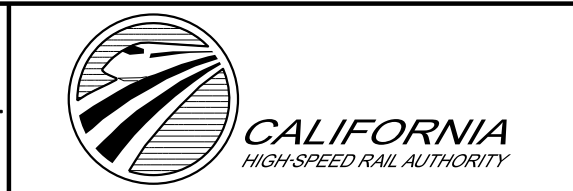


REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 19484

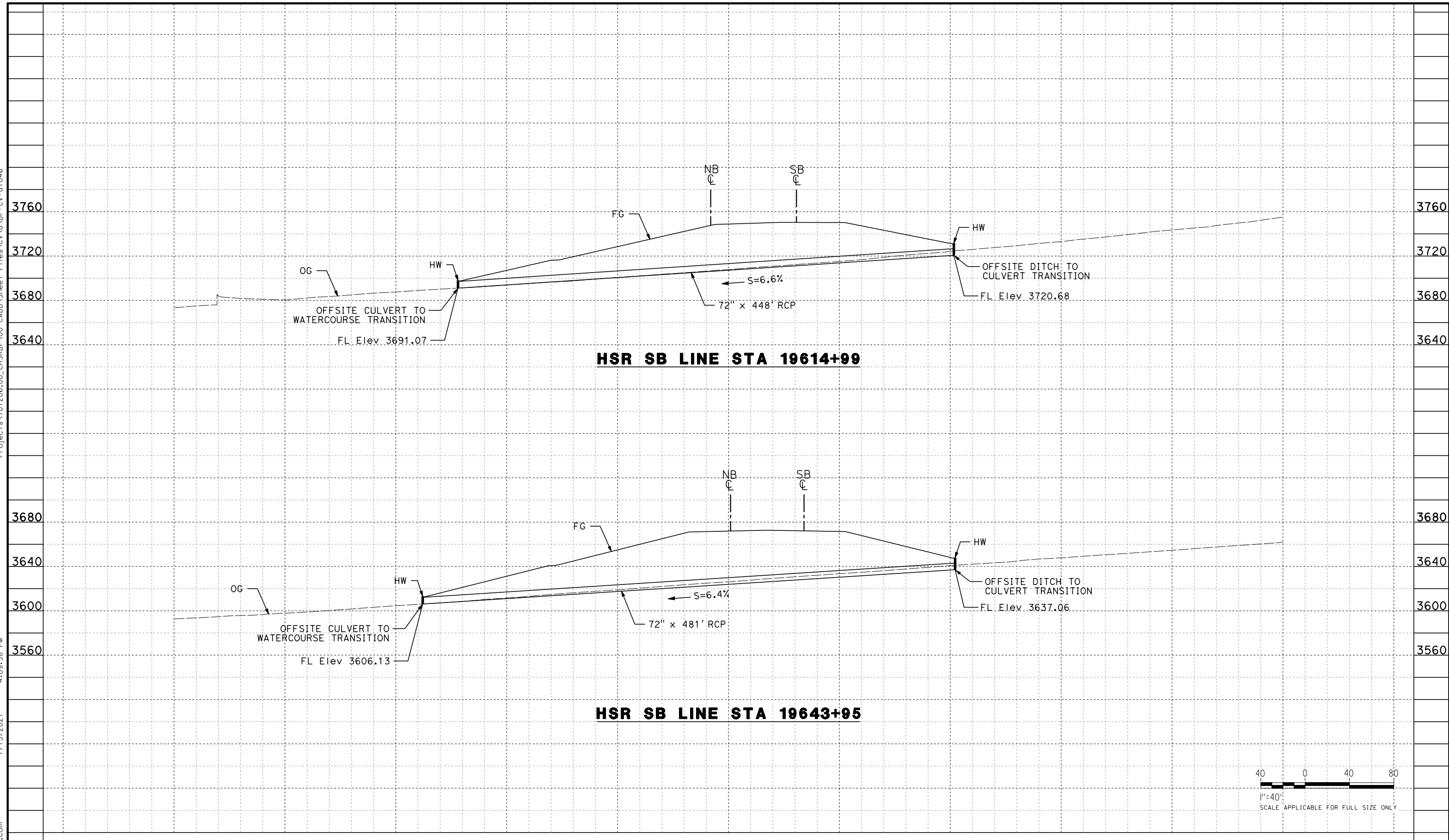
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AS SHOWN
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467

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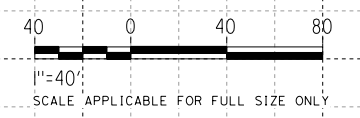
1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 19614+99

HSR SB LINE STA 19643+95



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 1,2,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 19615, 19644

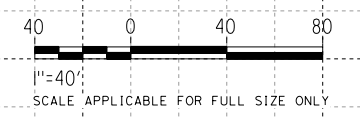
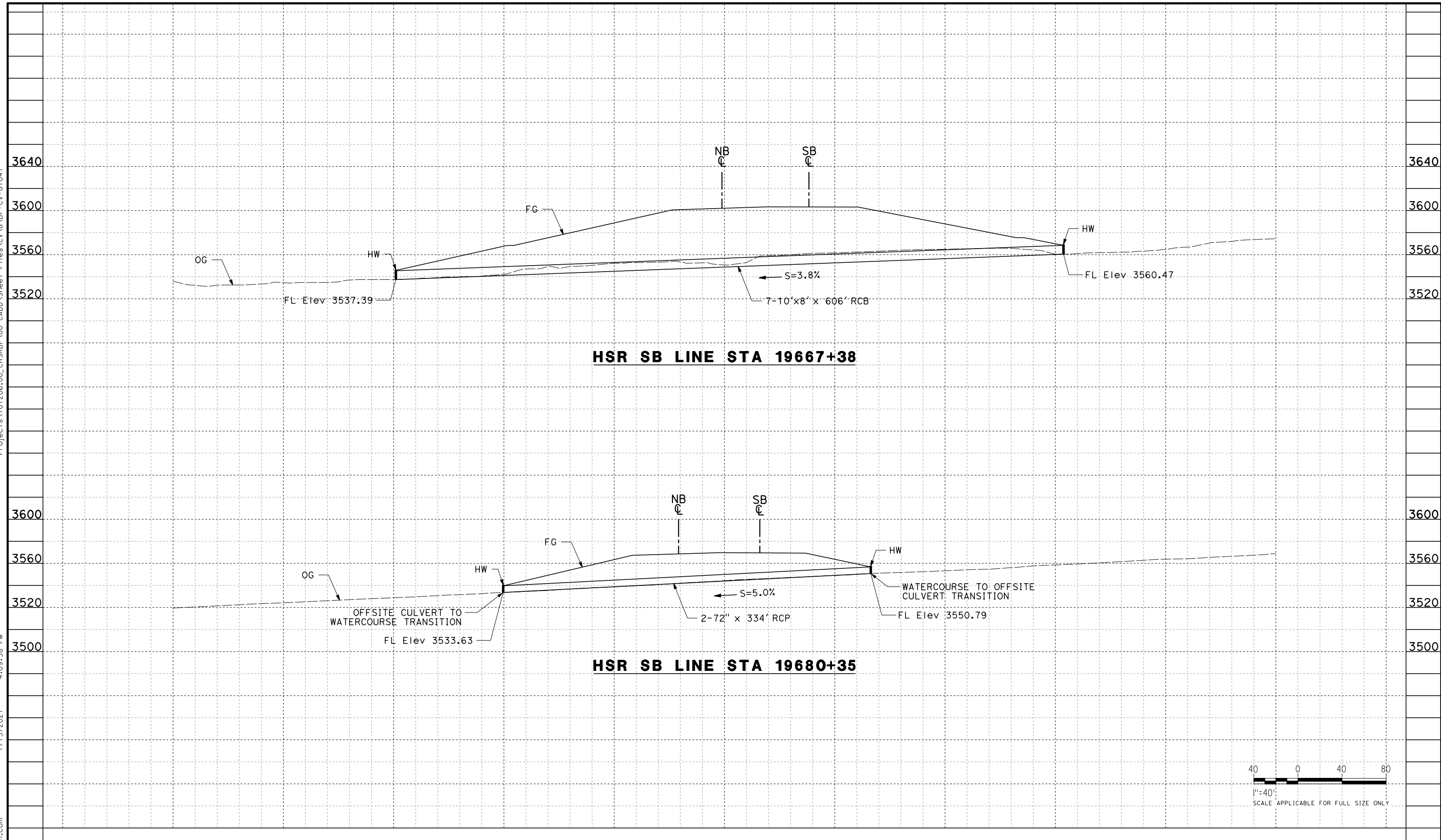
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DRAWING NO.
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SCALE
AS SHOWN
SHEET NO.
468

Projects\701206_00_CHSRBP\00_CADD\Sheet Files\CV\G\BP-CV-G1047

4:09:58 PM

1/13/2021

Glenn.Yamanaka@tylin.com



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA

DRAWN BY
A. DEL CASTILLO

CHECKED BY
G. CAMPBELL

IN CHARGE
G. CAMPBELL

DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 1,2,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 19667, 19680

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1047

SCALE
AS SHOWN

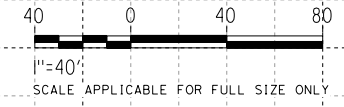
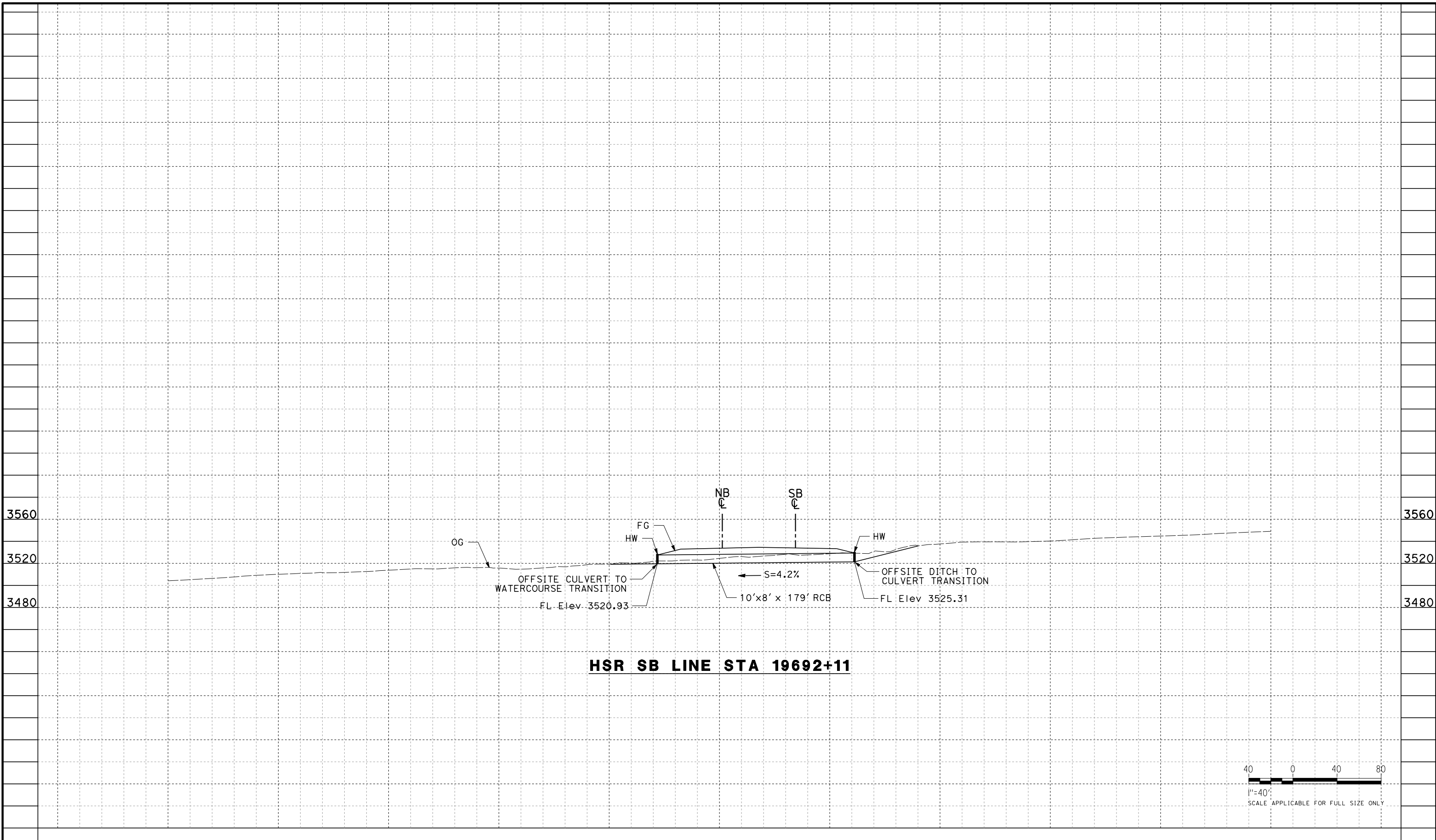
SHEET NO.
469

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\CV\G\BP-CV-G1048

4:09:46 PM

1/13/2021

Glenn.Yamanaka@tylin.com



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 1,2,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 19692

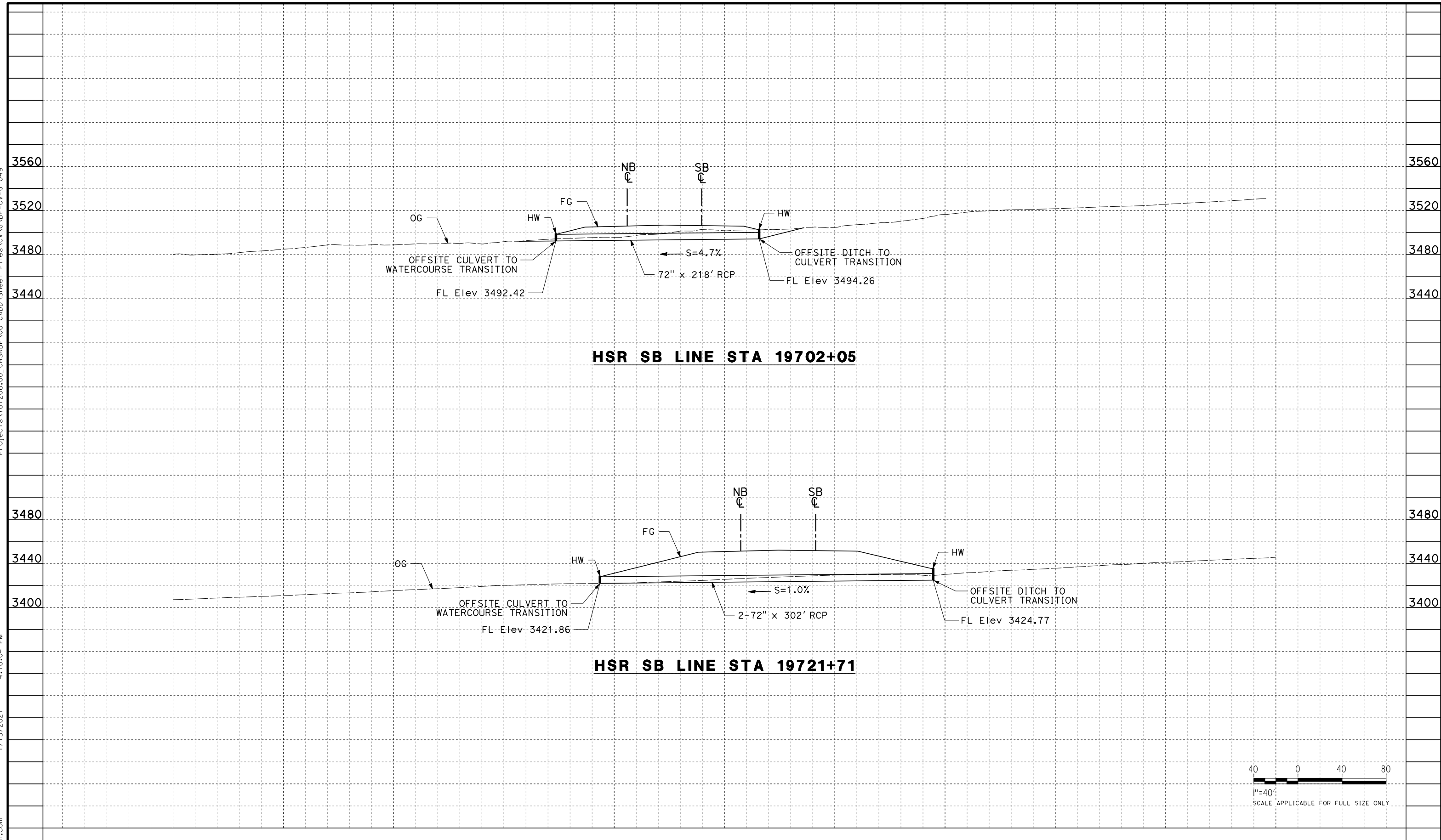
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DRAWING NO.
CV-G1048
SCALE
AS SHOWN
SHEET NO.
470

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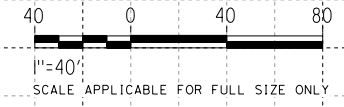
1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 19702+05

HSR SB LINE STA 19721+71



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 1,2,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 19702, 19721

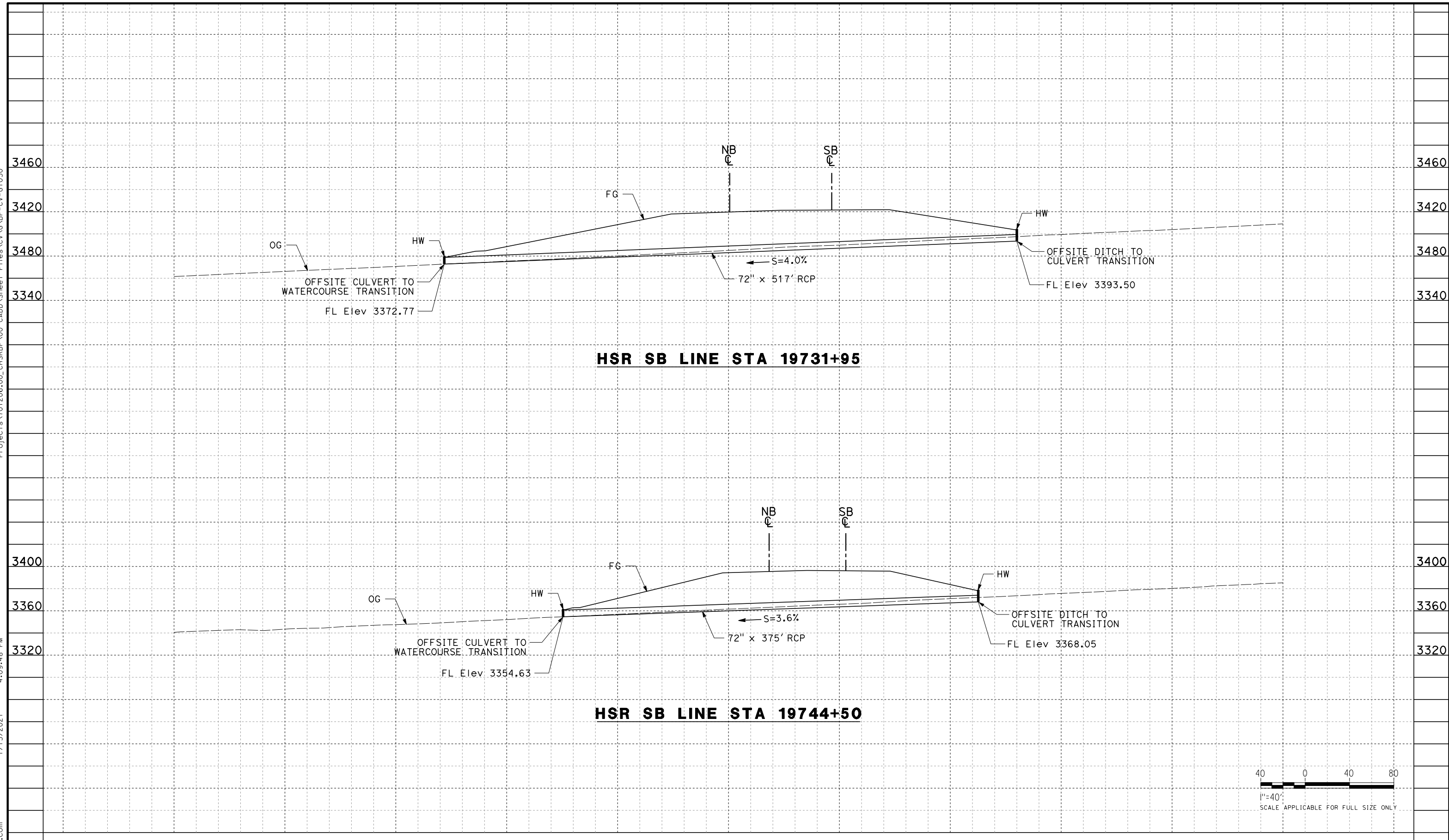
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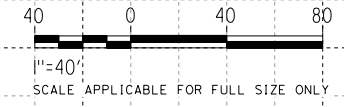
1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 19731+95

HSR SB LINE STA 19744+50



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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A. DEL CASTILLO
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
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**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 1,2,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 19732, 19745

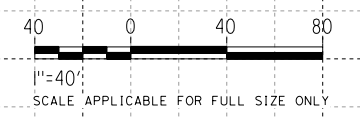
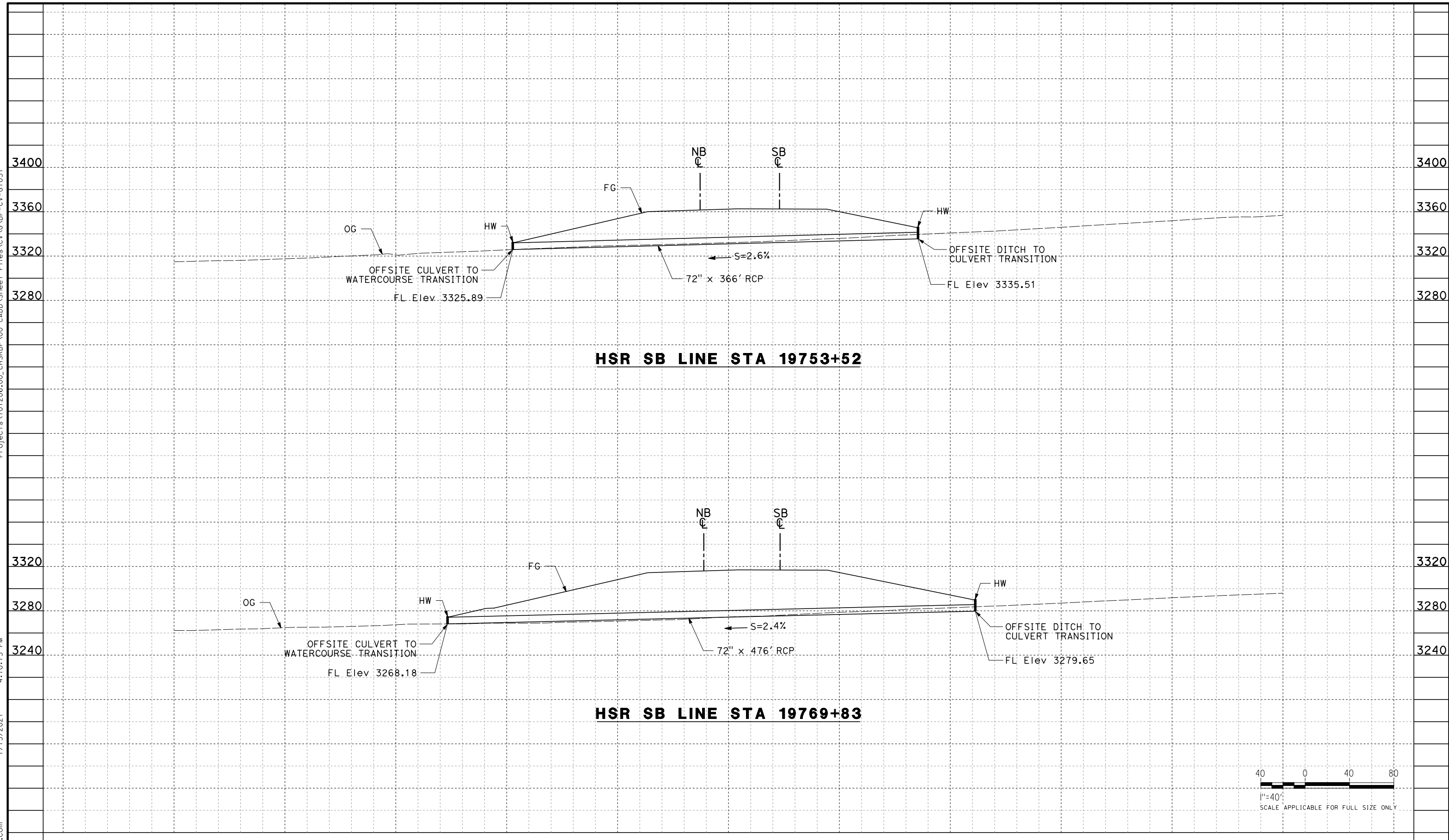
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472

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1/13/2021

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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G. CAMPBELL
DATE
01/29/2021

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

ALTERNATIVE 1,2,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 19753, 19769

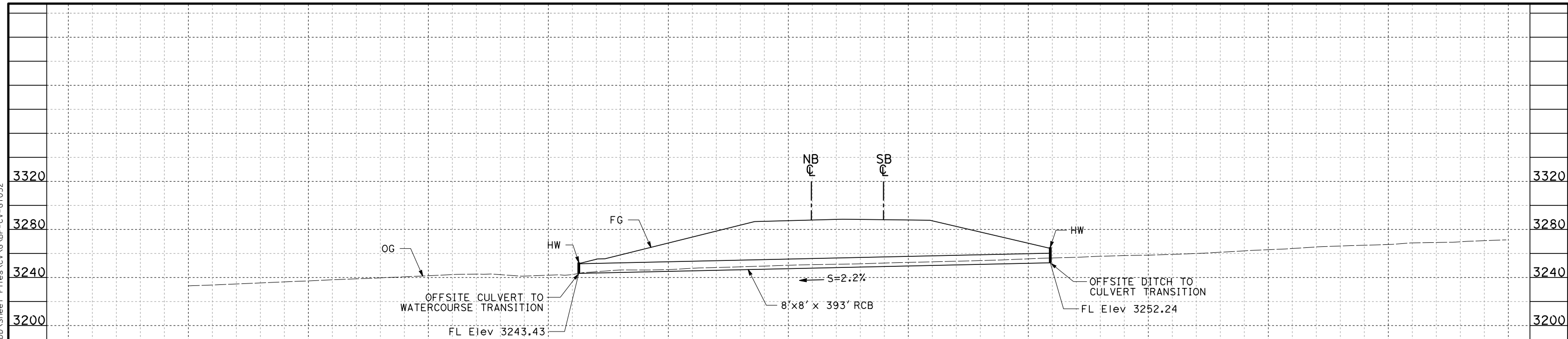
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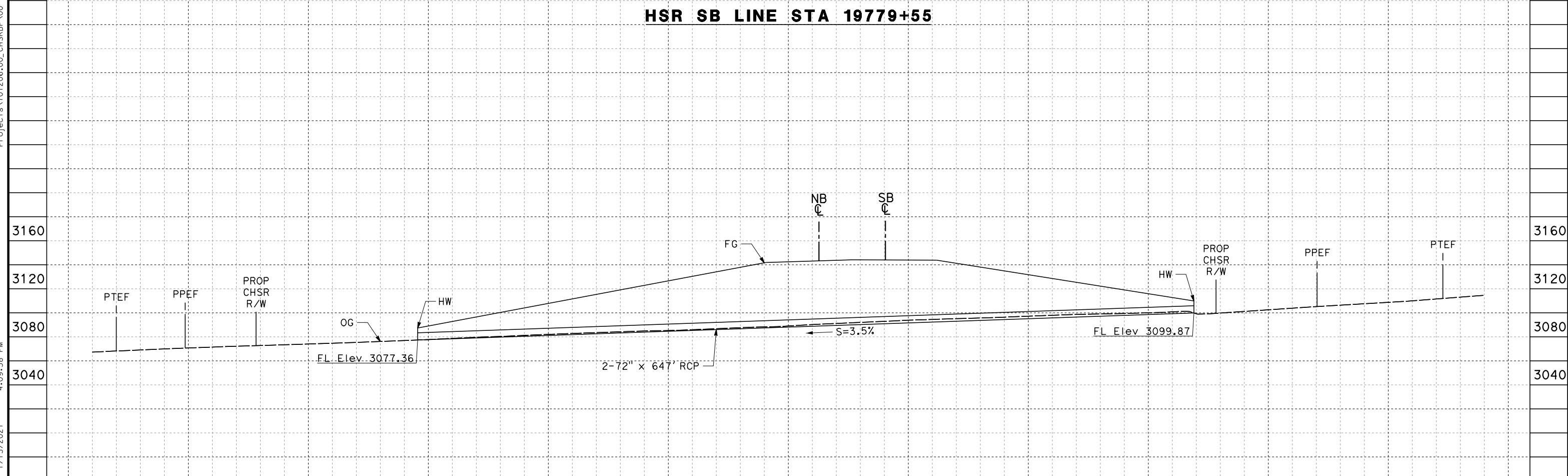
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1/13/2021

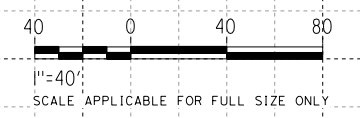
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 19779+55



HSR SB LINE STA 19831+54



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

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

ALTERNATIVE 1,2,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 19780, 19832

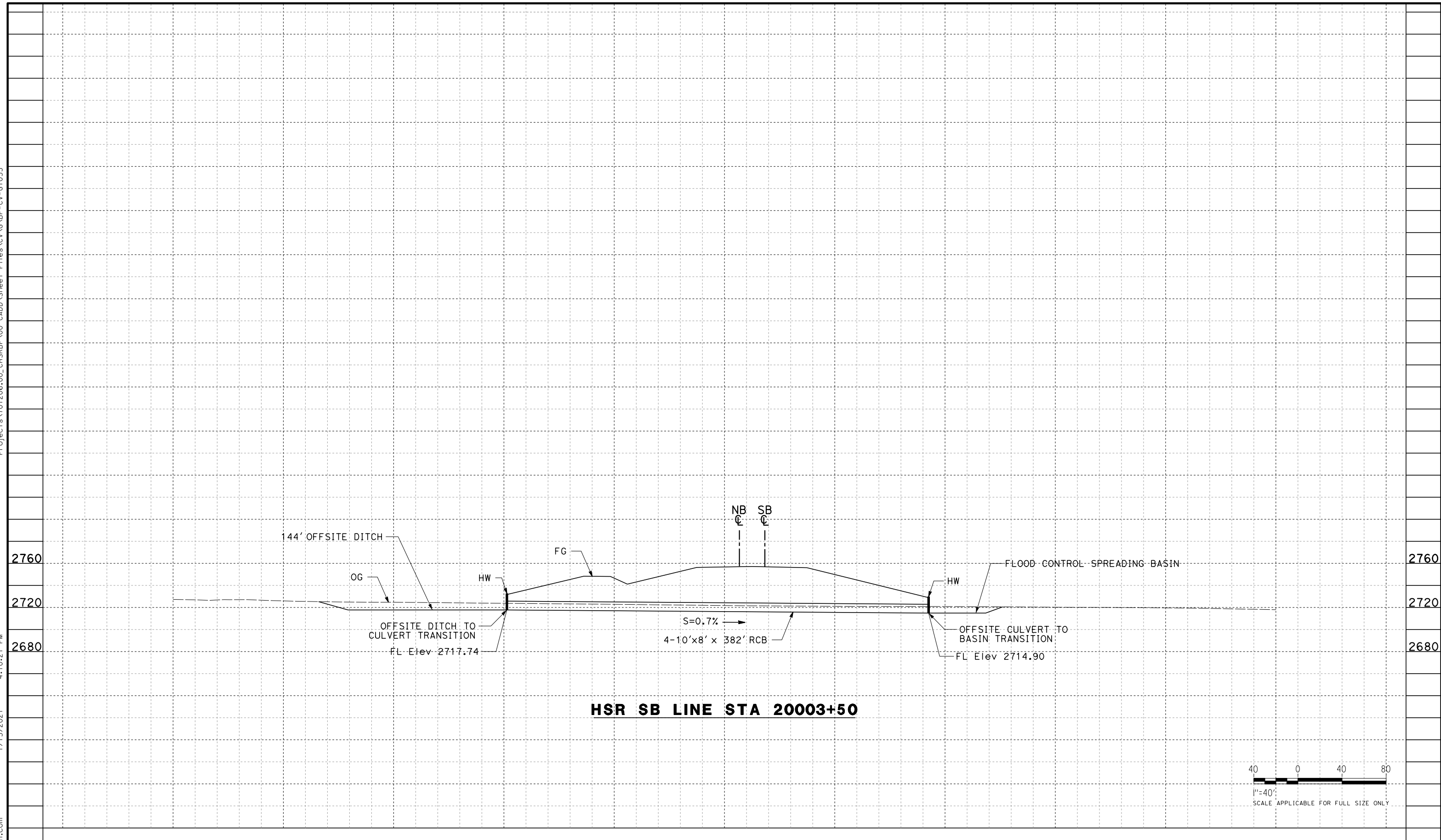
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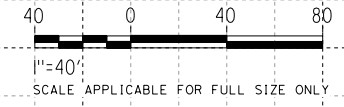
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HSR SB LINE STA 20003+50



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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G. CAMPBELL
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G. CAMPBELL
DATE
01/29/2021

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PEPD
SUBMITTAL**

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CONSTRUCTION**



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

ALTERNATIVE 1,2,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20004

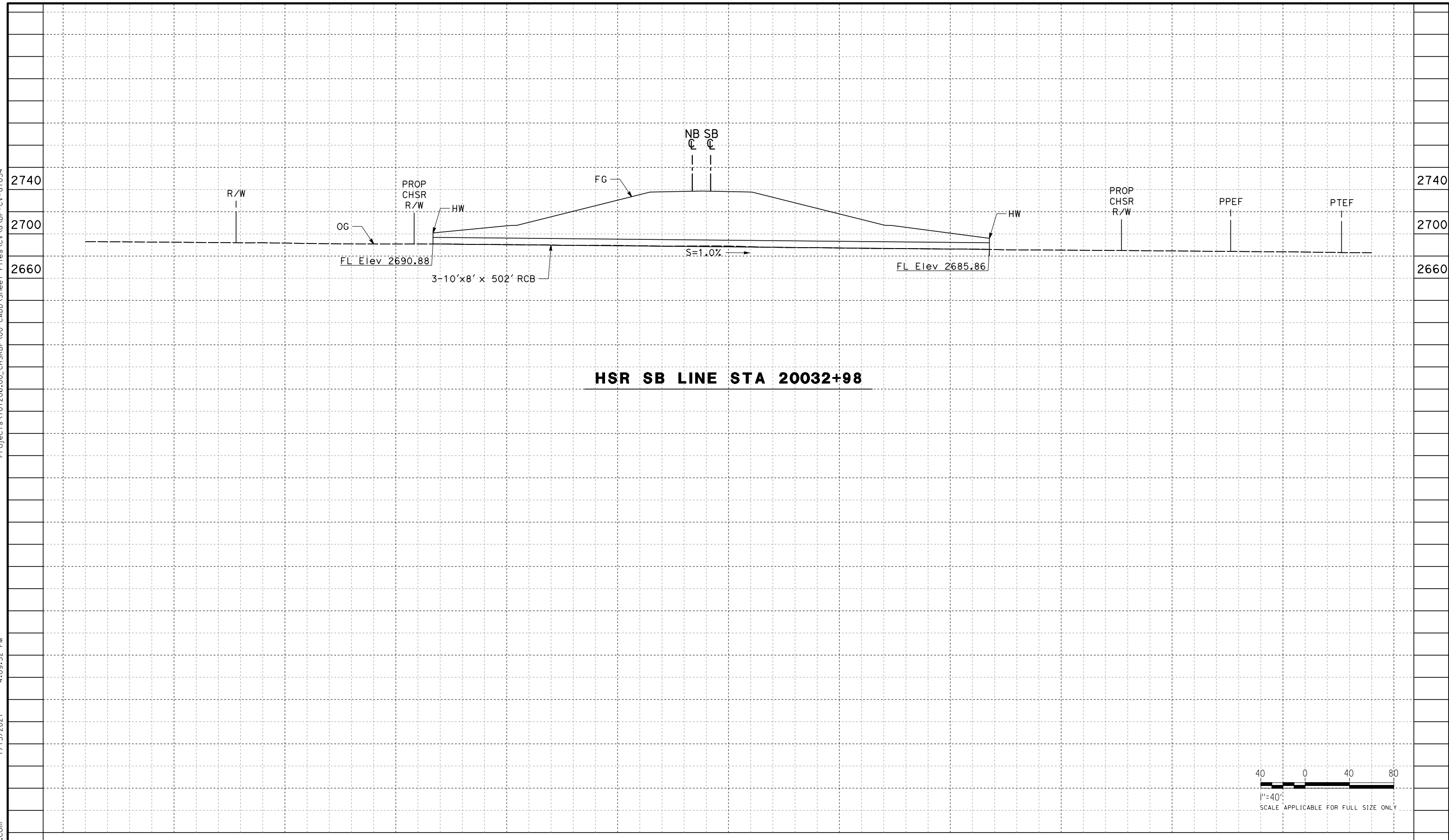
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SCALE
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SHEET NO.
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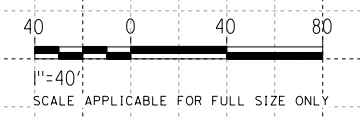
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1/13/2021

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HSR SB LINE STA 20032+98



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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G. CAMPBELL
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G. CAMPBELL
DATE
01/29/2021

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

ALTERNATIVE 1,2,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20033

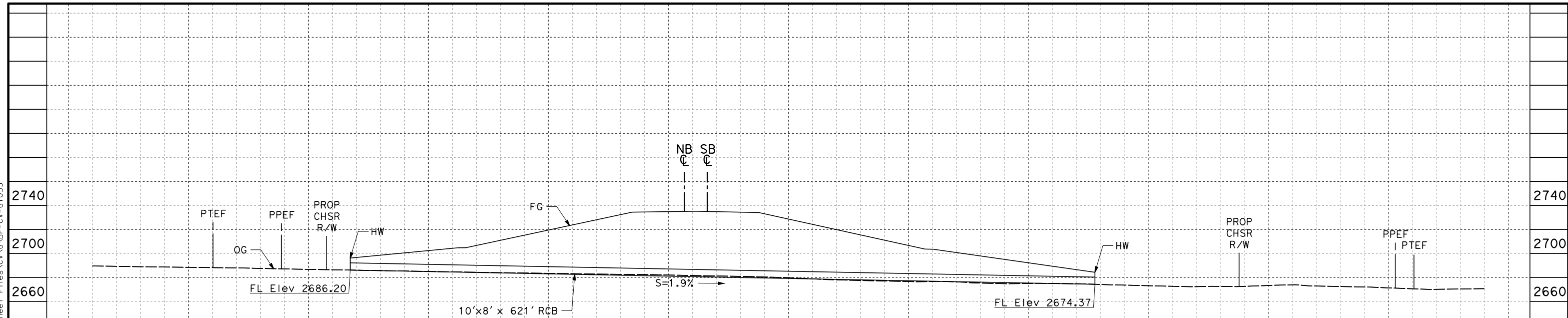
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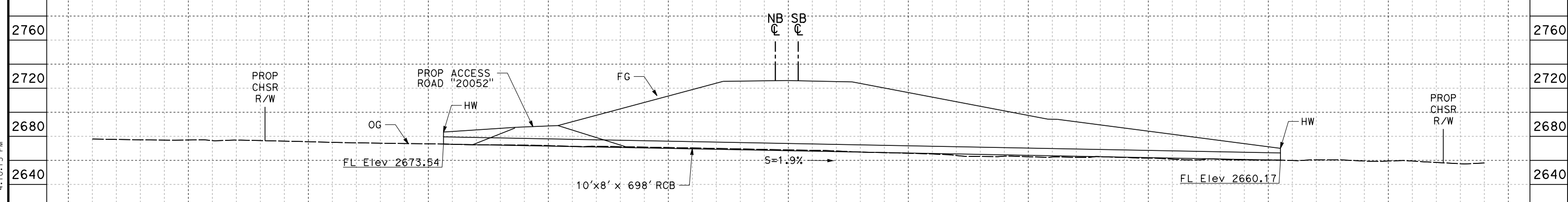
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1/13/2021

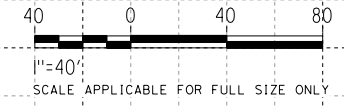
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HSR SB LINE STA 20038+86



HSR SB LINE STA 20052+46



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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A. DEL CASTILLO
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G. CAMPBELL
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G. CAMPBELL
DATE
01/29/2021

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20039, 20052

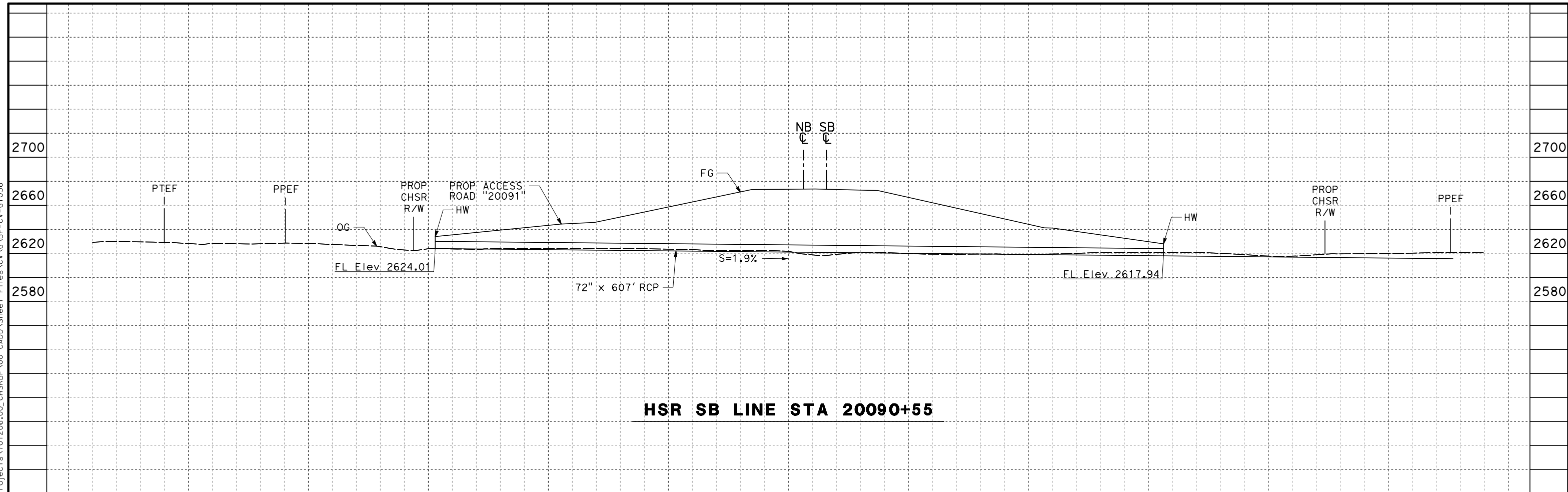
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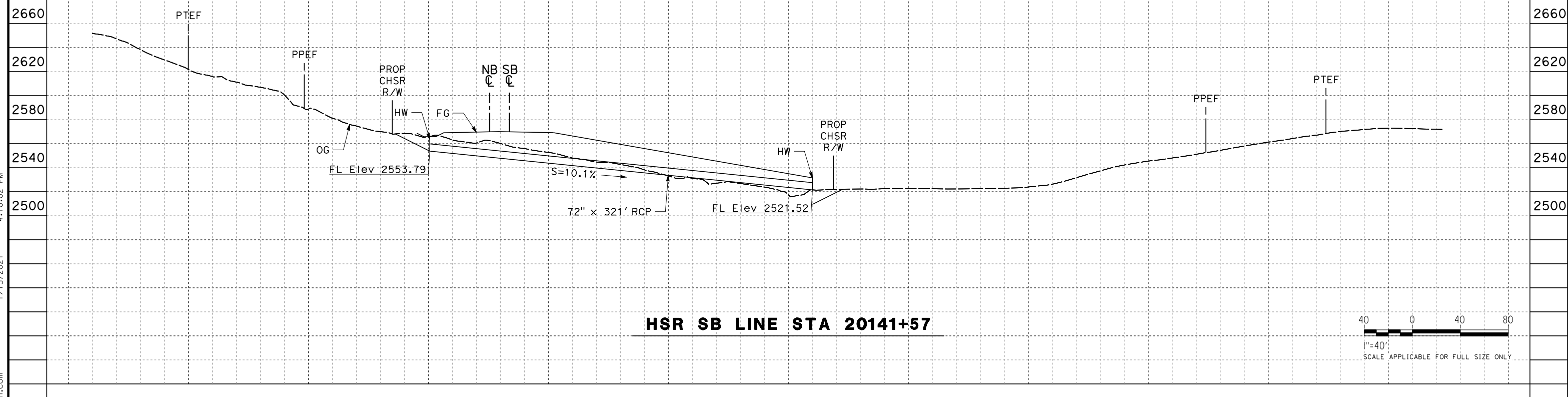
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1/13/2021

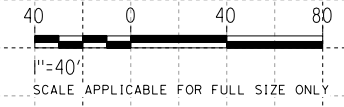
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 20090+55



HSR SB LINE STA 20141+57



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DESIGNED BY
G. YAMANAKA
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G. CAMPBELL
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G. CAMPBELL
DATE
01/29/2021

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20091, 20142

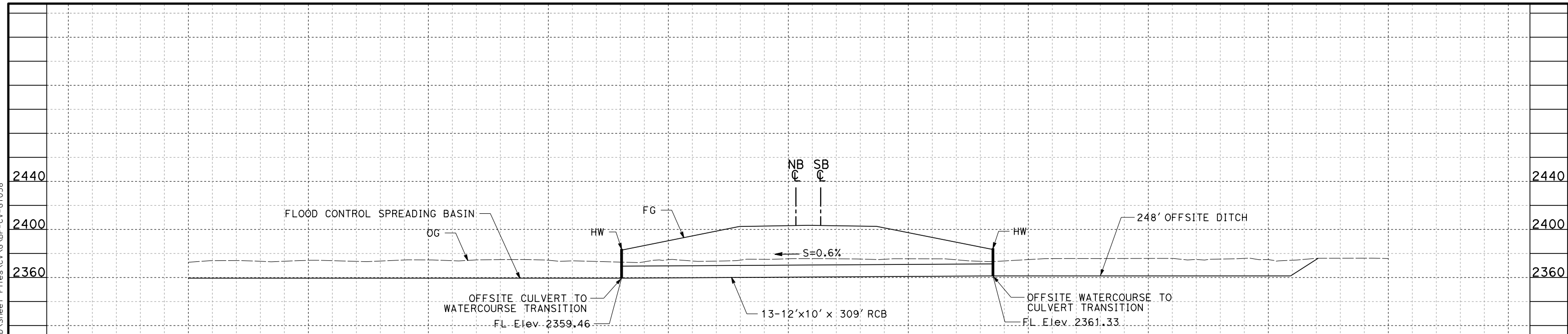
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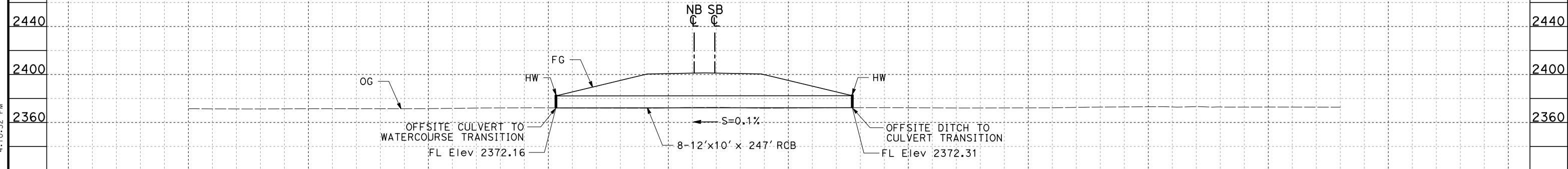
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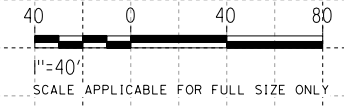
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 20294+41



HSR SB LINE STA 20306+21



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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G. CAMPBELL
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G. CAMPBELL
DATE
01/29/2021

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20294, 20306

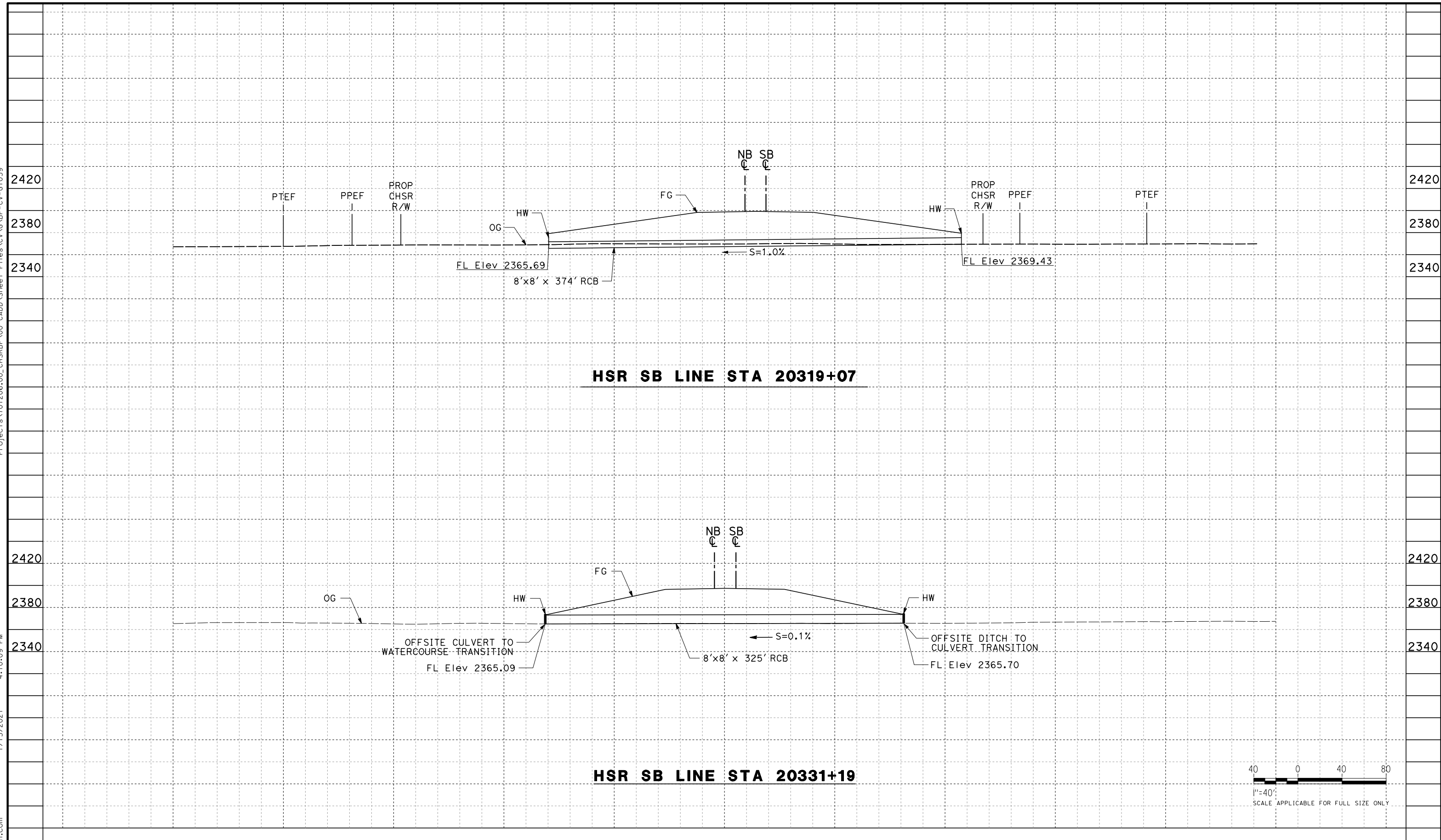
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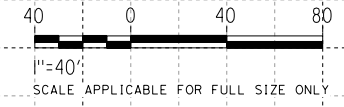
1/13/2021

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HSR SB LINE STA 20319+07

HSR SB LINE STA 20331+19



REV	DATE	BY	CHK	APP	DESCRIPTION

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G. CAMPBELL
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G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20319, 20331

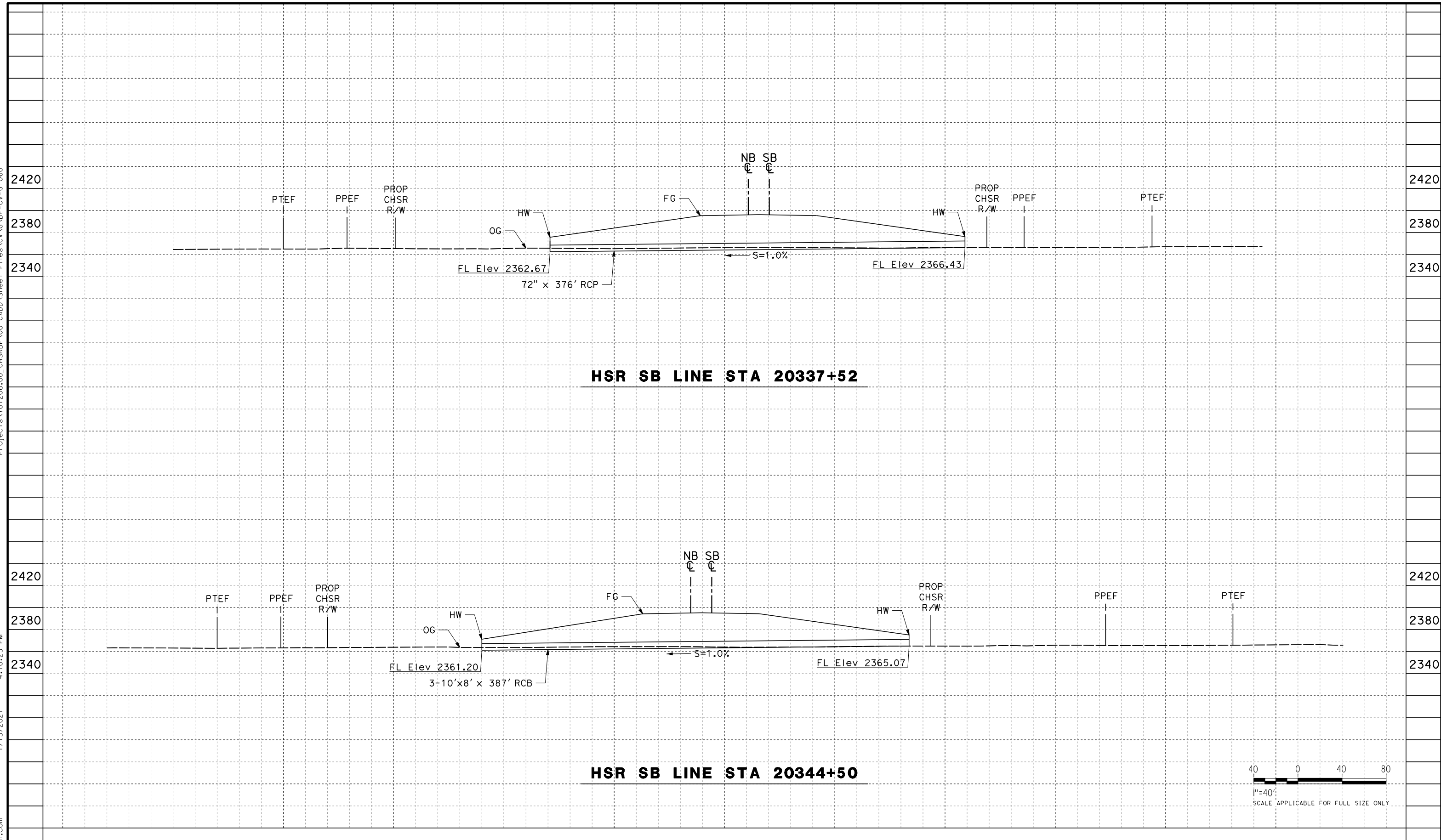
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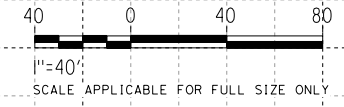
1/13/2021

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HSR SB LINE STA 20337+52

HSR SB LINE STA 20344+50

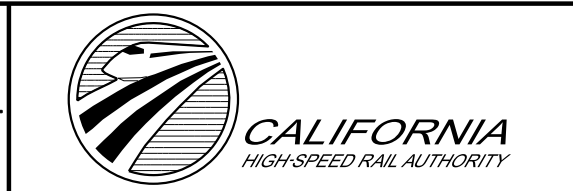


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
A. DEL CASTILLO
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G. CAMPBELL
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G. CAMPBELL
DATE
01/29/2021

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CONSTRUCTION**



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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20338, 20345

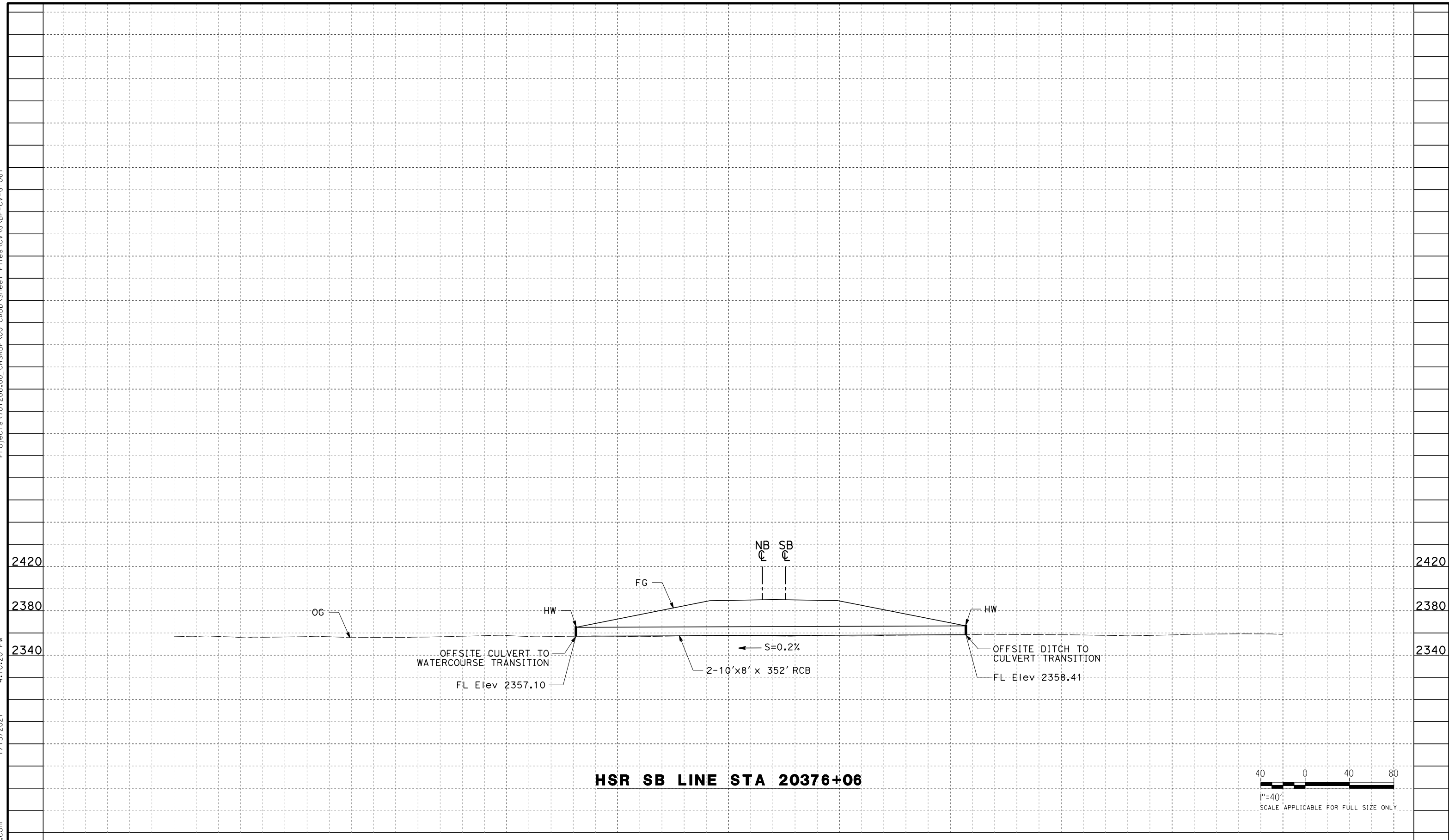
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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G. CAMPBELL
DATE
01/29/2021

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CONSTRUCTION**



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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20376

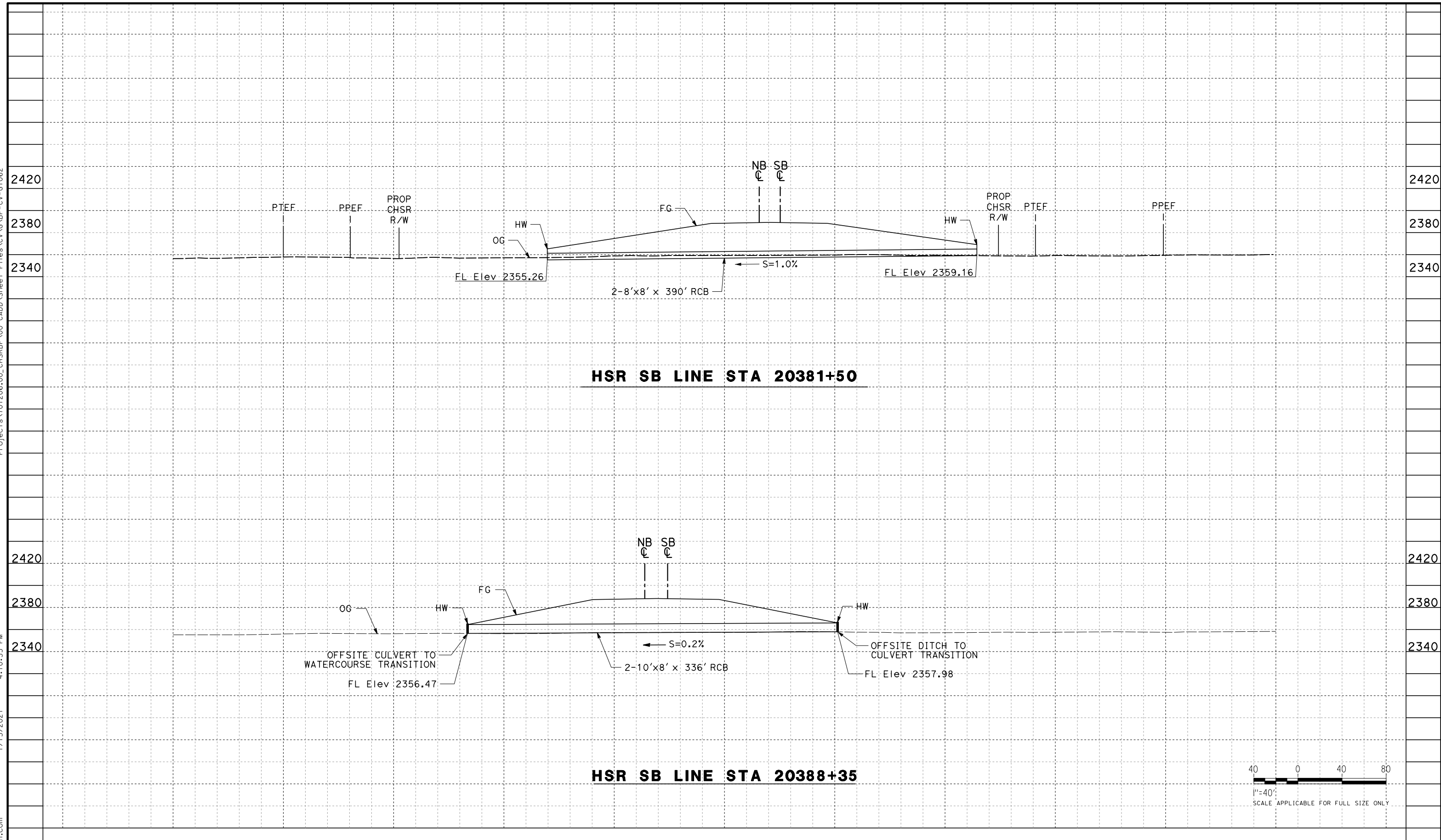
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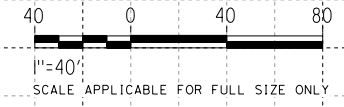
1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 20381+50

HSR SB LINE STA 20388+35



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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A. DEL CASTILLO
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G. CAMPBELL
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G. CAMPBELL
DATE
01/29/2021

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20382, 20388

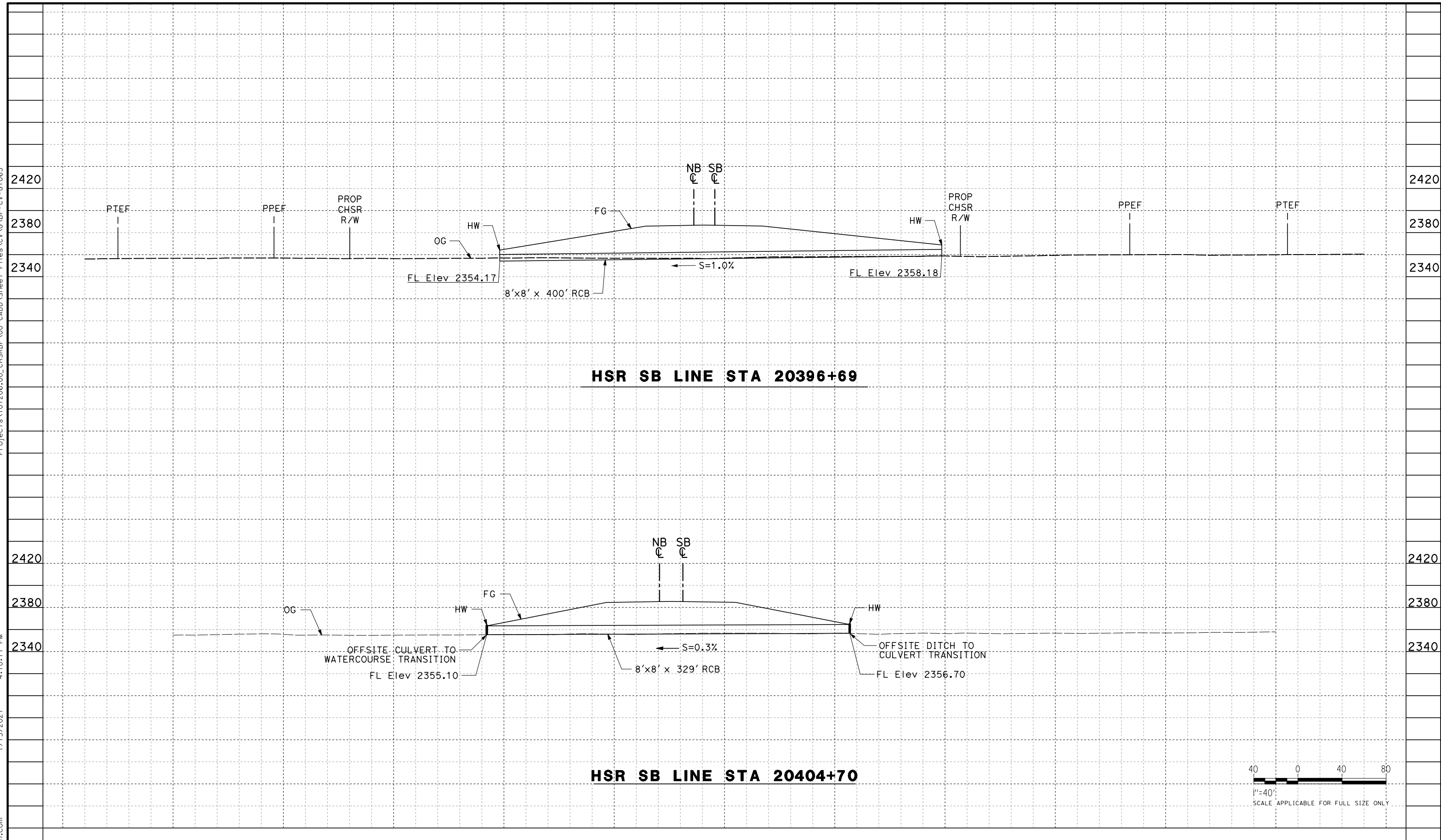
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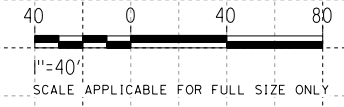
1/13/2021

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HSR SB LINE STA 20396+69

HSR SB LINE STA 20404+70



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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G. CAMPBELL
DATE
01/29/2021

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20397, 20405

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1063

SCALE
AS SHOWN

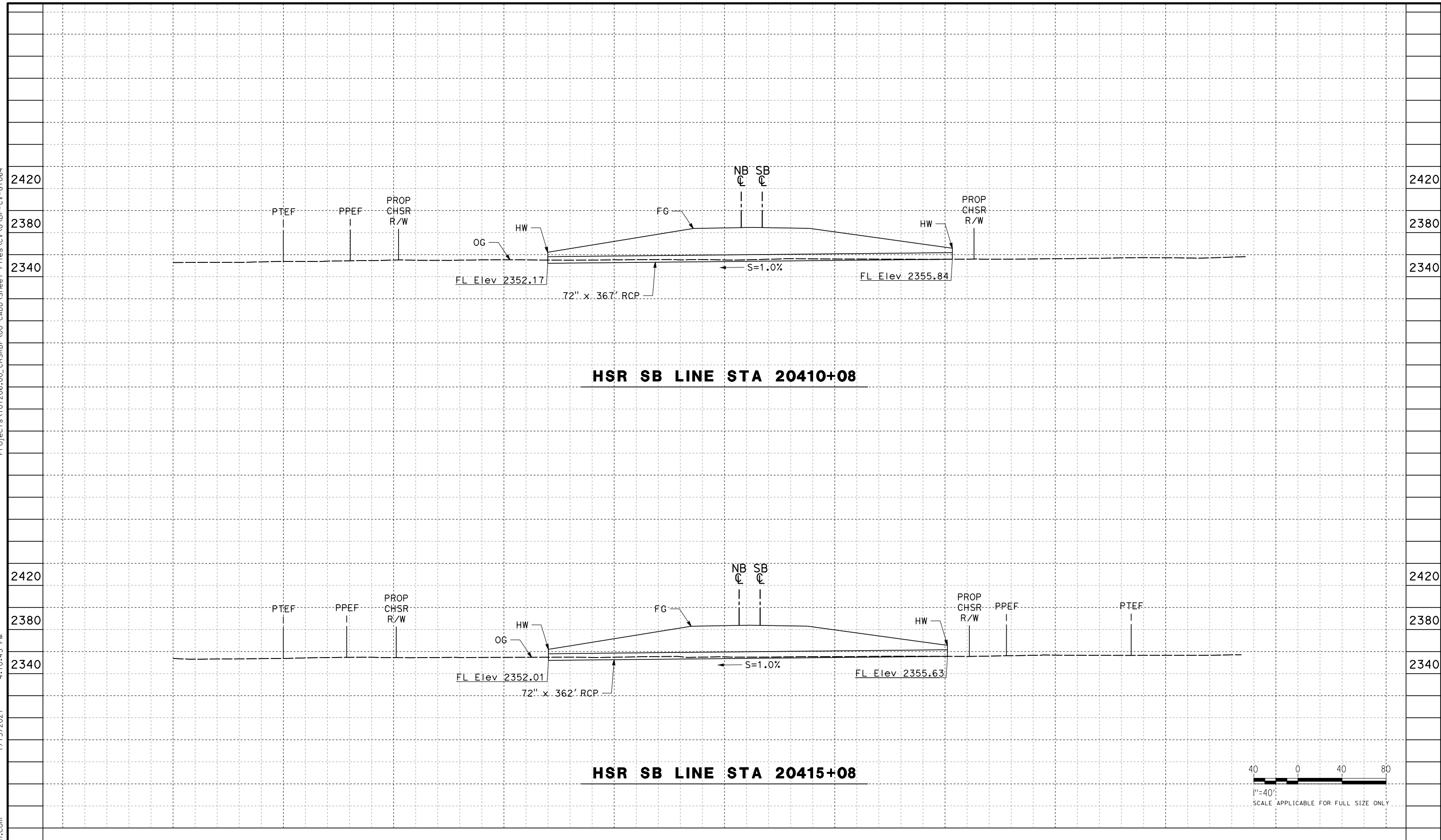
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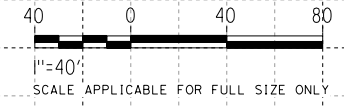
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HSR SB LINE STA 20410+08

HSR SB LINE STA 20415+08

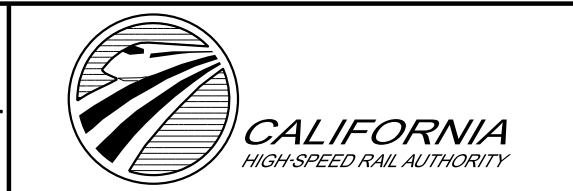


REV	DATE	BY	CHK	APP	DESCRIPTION

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

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20410, 20415

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1064

SCALE
AS SHOWN

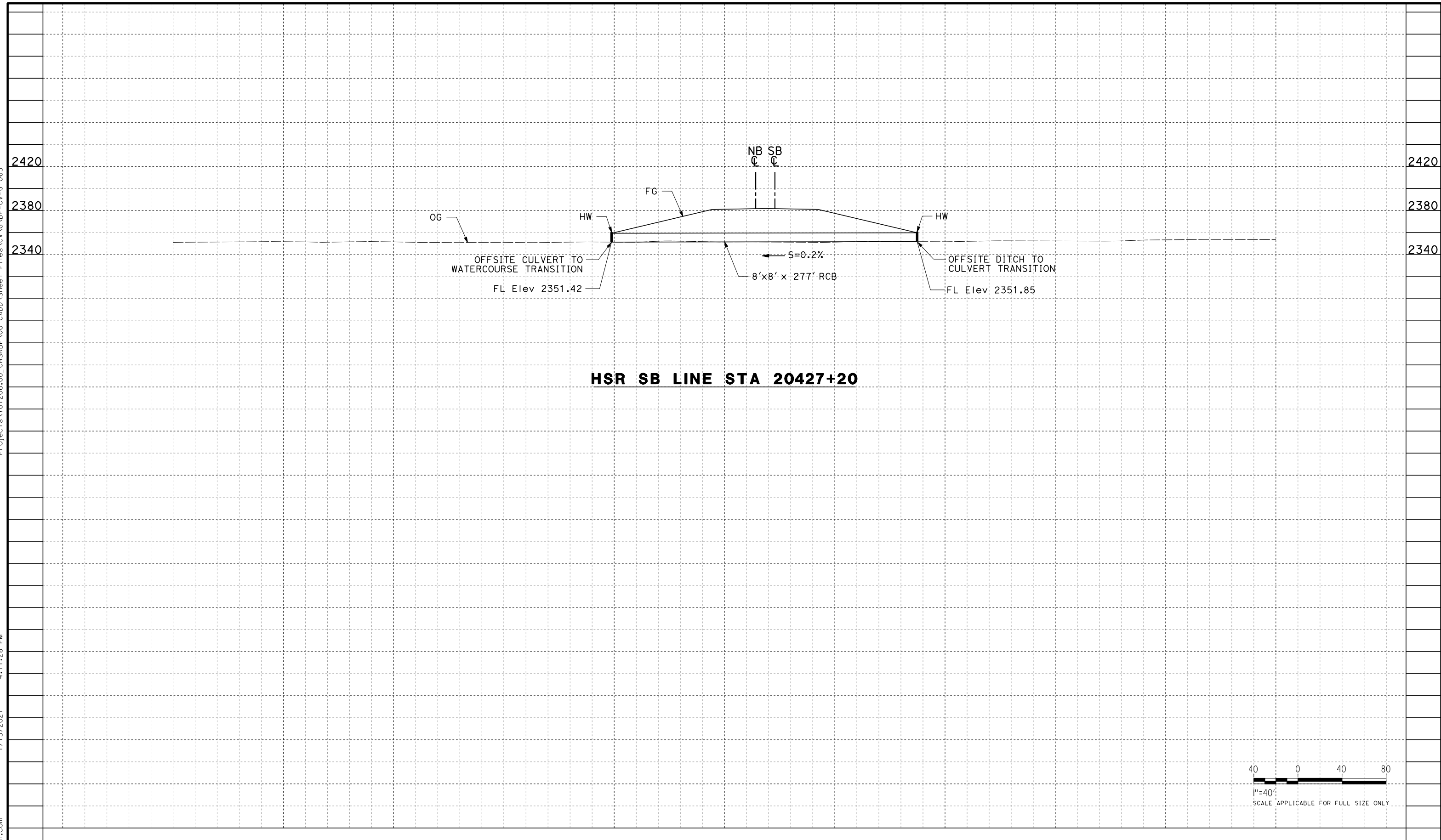
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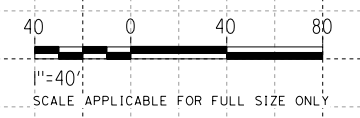
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1/13/2021

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HSR SB LINE STA 20427+20



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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A. DEL CASTILLO
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G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20427

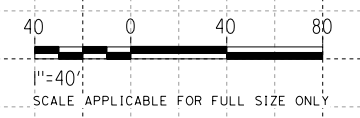
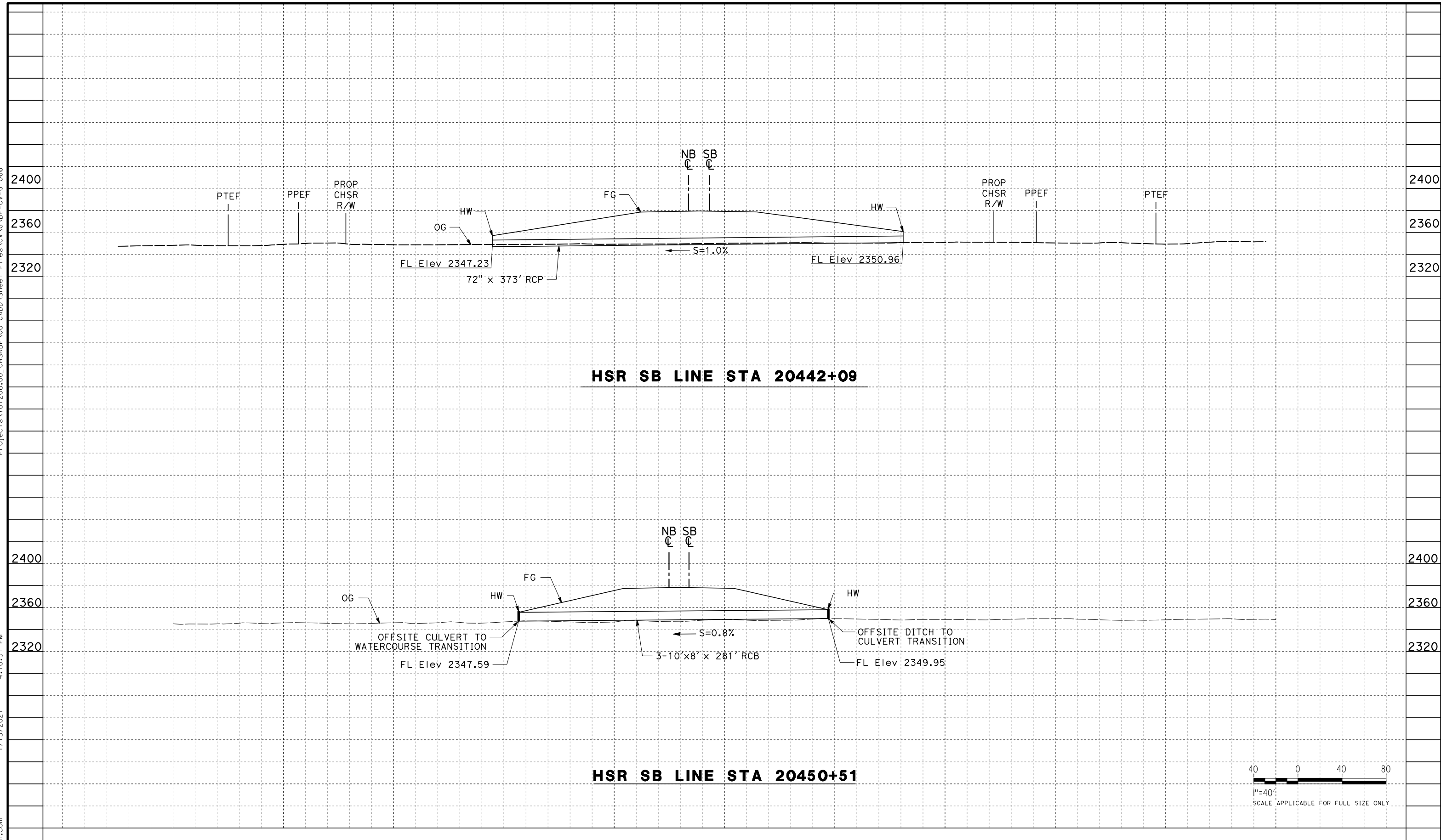
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486

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\CV\G\BP-CV-G1066

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DESIGNED BY
G. YAMANAKA
DRAWN BY
A. DEL CASTILLO
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G. CAMPBELL
DATE
01/29/2021

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20442, 20451

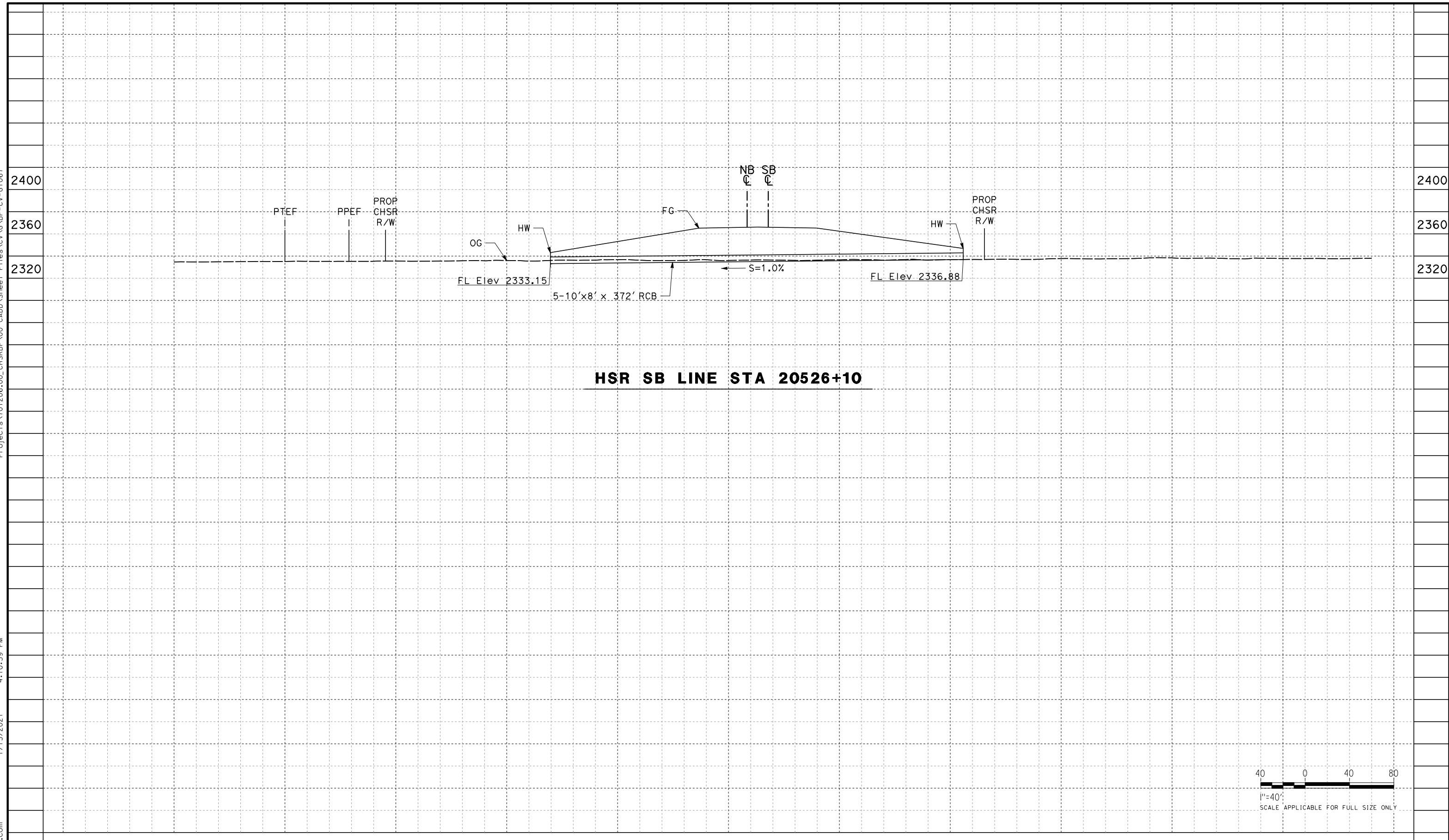
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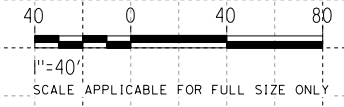
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1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 20526+10



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20526

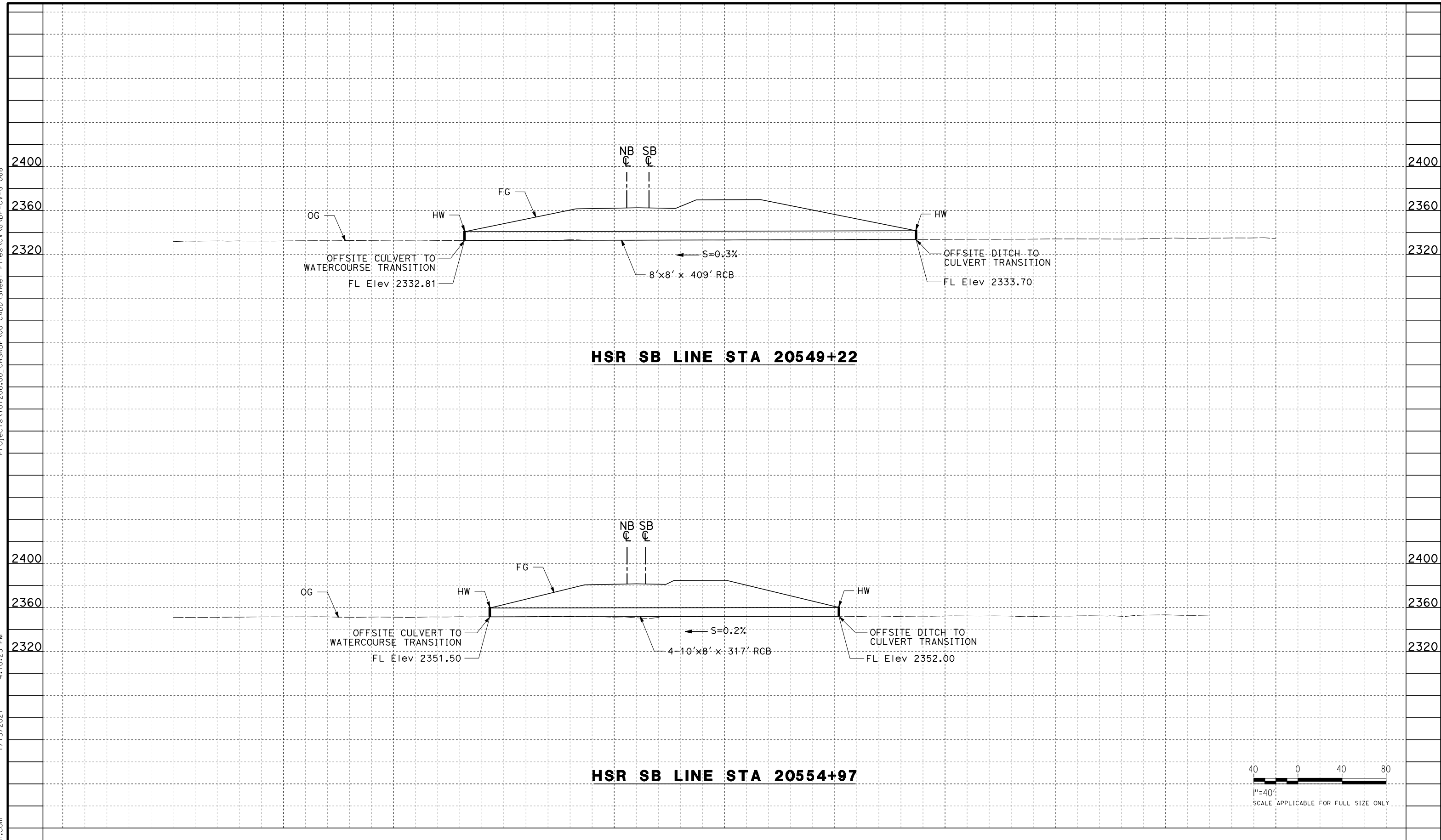
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HSR13-44
DRAWING NO.
CV-G1067
SCALE
AS SHOWN
SHEET NO.
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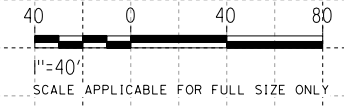
1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 20549+22

HSR SB LINE STA 20554+97



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20549, 20555

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1068

SCALE
AS SHOWN

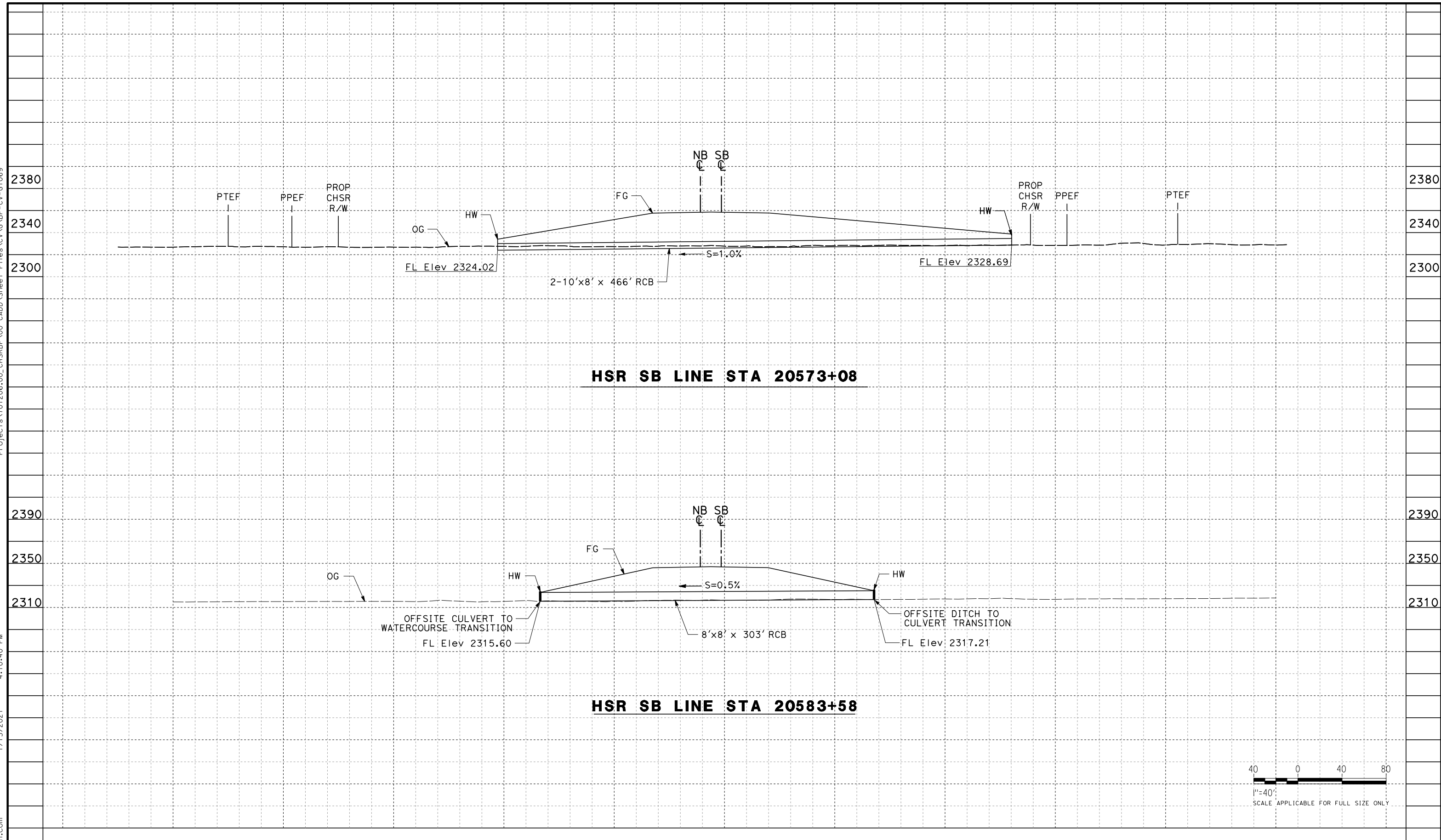
SHEET NO.
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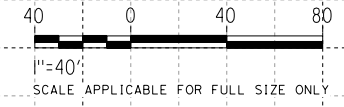
1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 20573+08

HSR SB LINE STA 20583+58



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20573, 20584

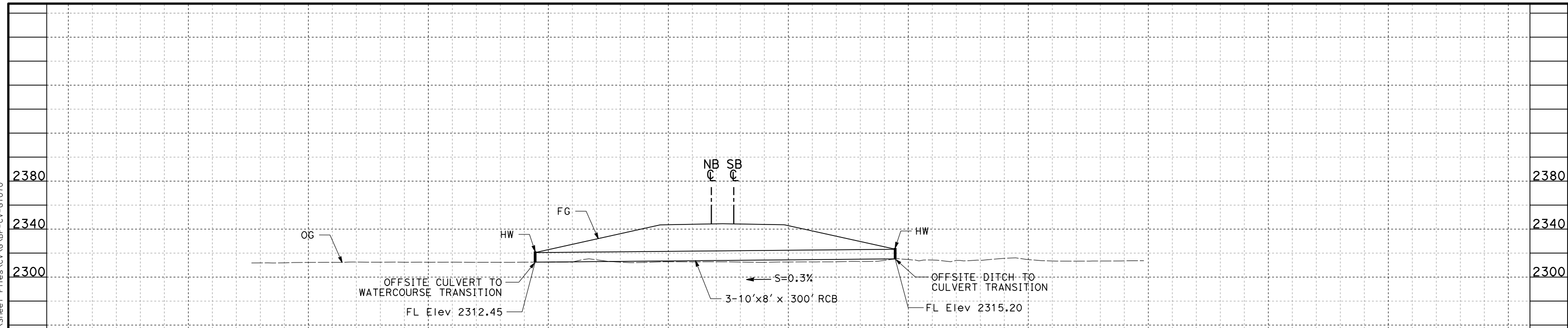
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HSR13-44
DRAWING NO.
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SCALE
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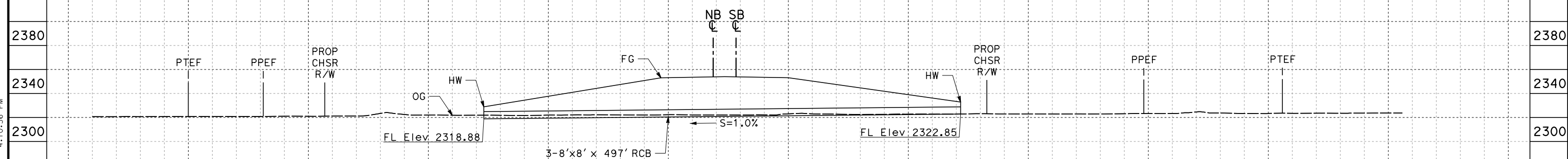
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1/13/2021

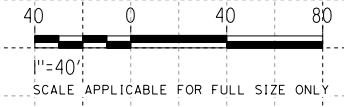
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 20599+03



HSR SB LINE STA 20602+03



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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A. DEL CASTILLO
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20599, 20602

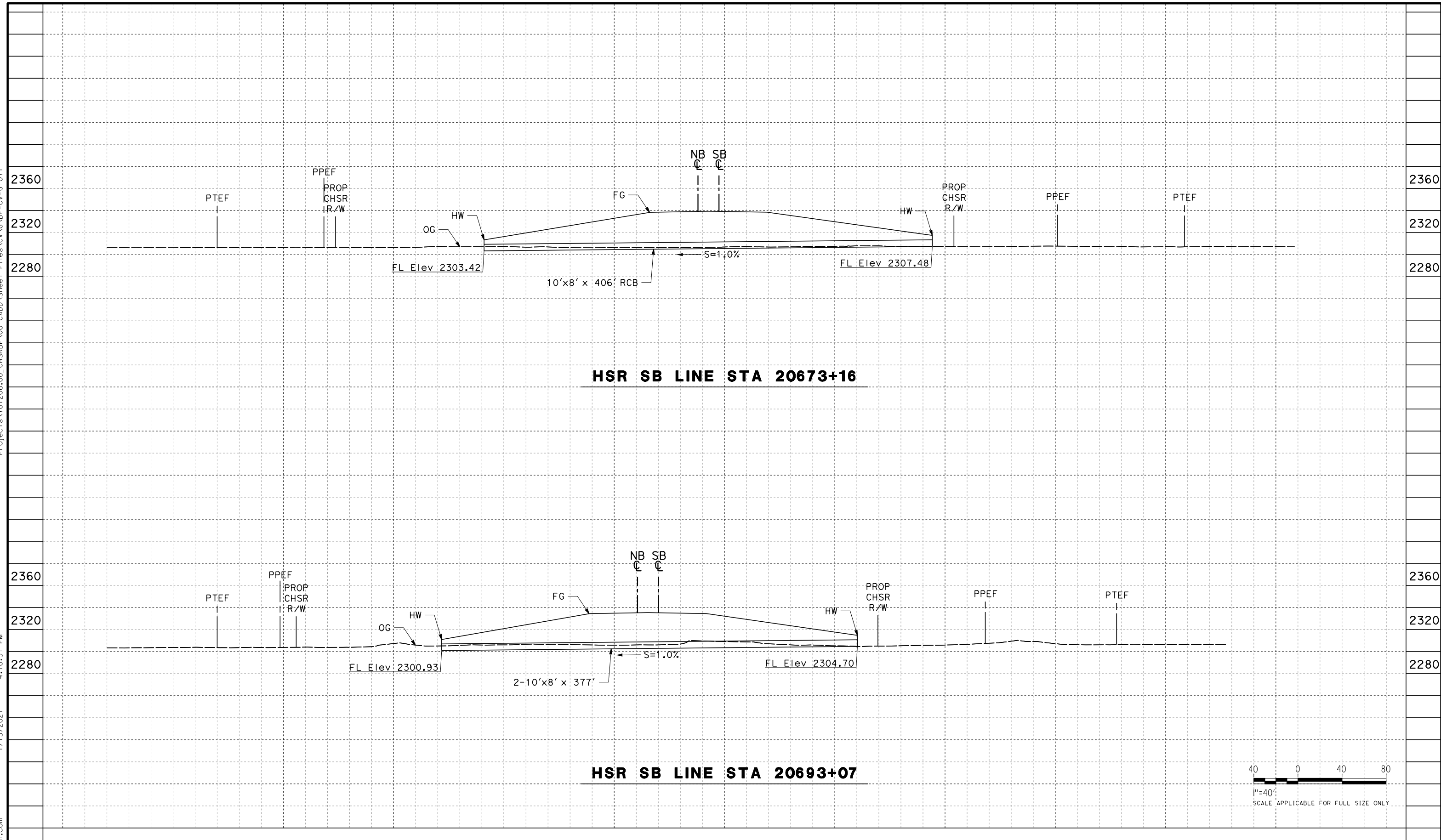
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HSR13-44
DRAWING NO.
CV-G1070
SCALE
AS SHOWN
SHEET NO.
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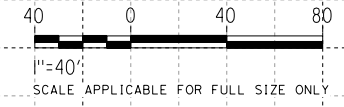
1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 20673+16

HSR SB LINE STA 20693+07



REV	DATE	BY	CHK	APP	DESCRIPTION

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

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SUBMITTAL**

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CONSTRUCTION**



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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20673, 20693

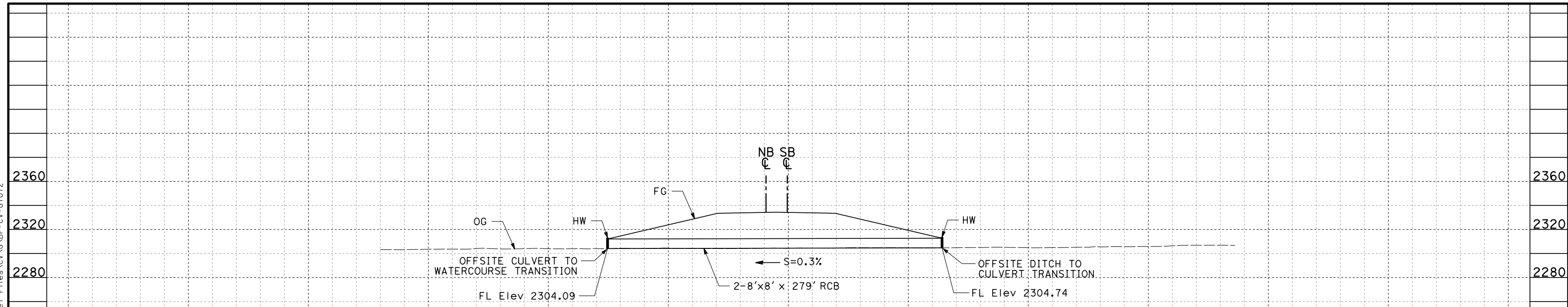
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HSR13-44
DRAWING NO.
CV-G1071
SCALE
AS SHOWN
SHEET NO.
492

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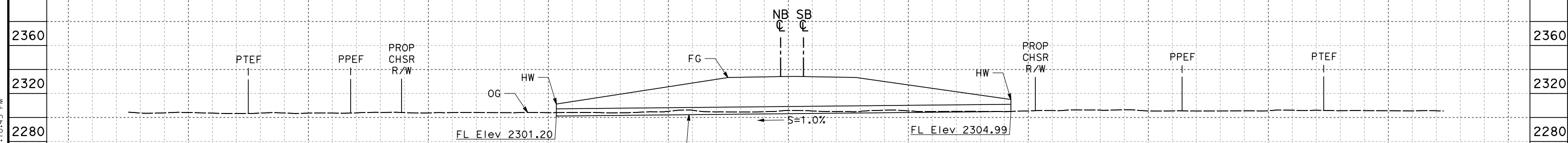
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1/13/2021

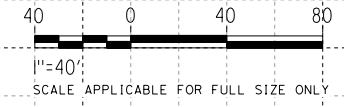
Glenn.Yamanaka@tylin.com



HSR SB LINE STA 20715+82



HSR SB LINE STA 20719+56



REV	DATE	BY	CHK	APP	DESCRIPTION

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

**RECORD SET
PEPD
SUBMITTAL**

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CONSTRUCTION**



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

ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 20716, 20720

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1072

SCALE
AS SHOWN

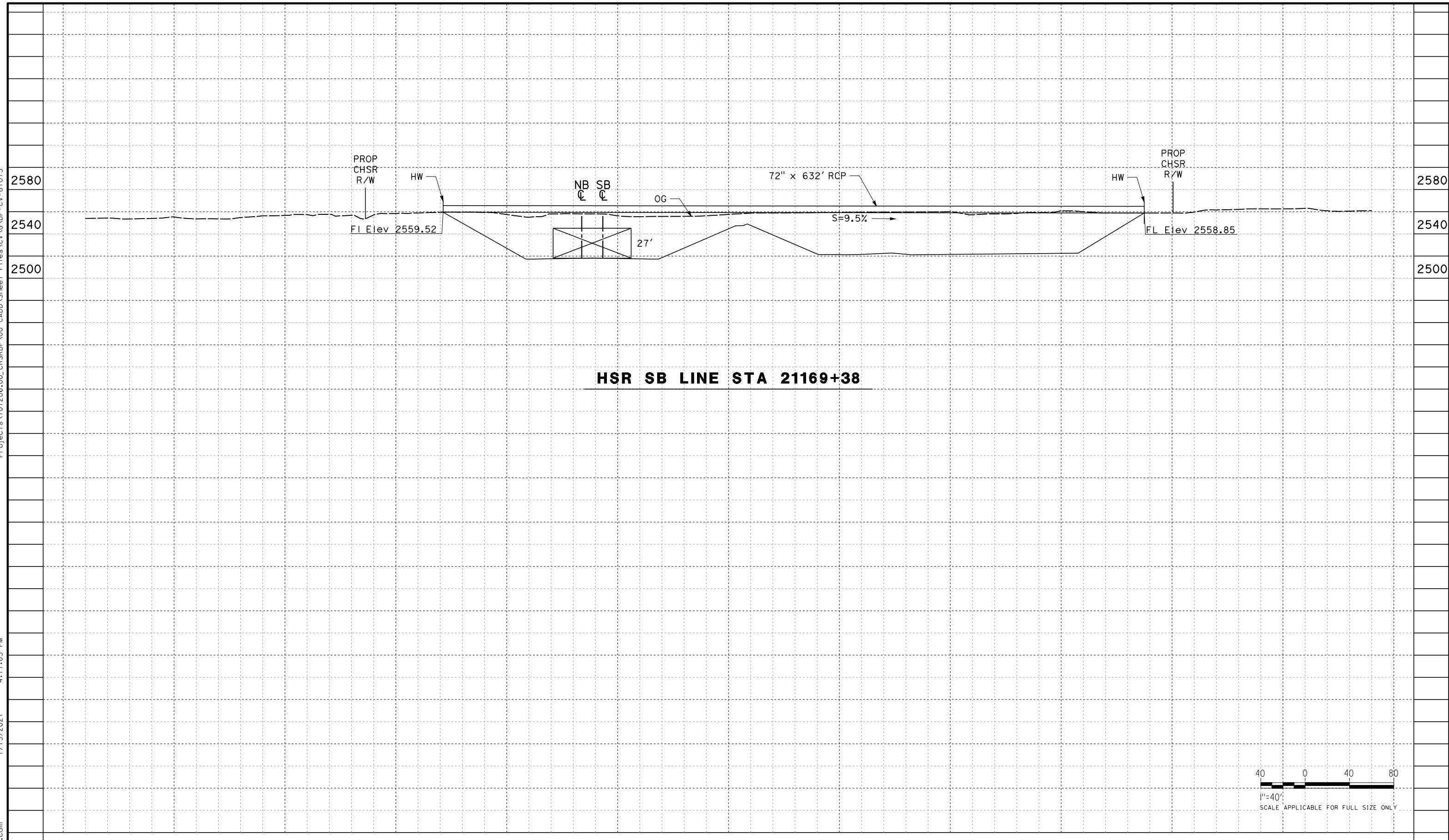
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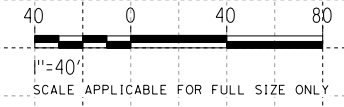
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1/13/2021

Glenn.Yamanaka@tylin.com



HSR SB LINE STA 21169+38



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA

DRAWN BY
A. DEL CASTILLO

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G. CAMPBELL

IN CHARGE
G. CAMPBELL

DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

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CONSTRUCTION**



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

ALTERNATIVE 1,2,3
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 21169

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G1073

SCALE
AS SHOWN

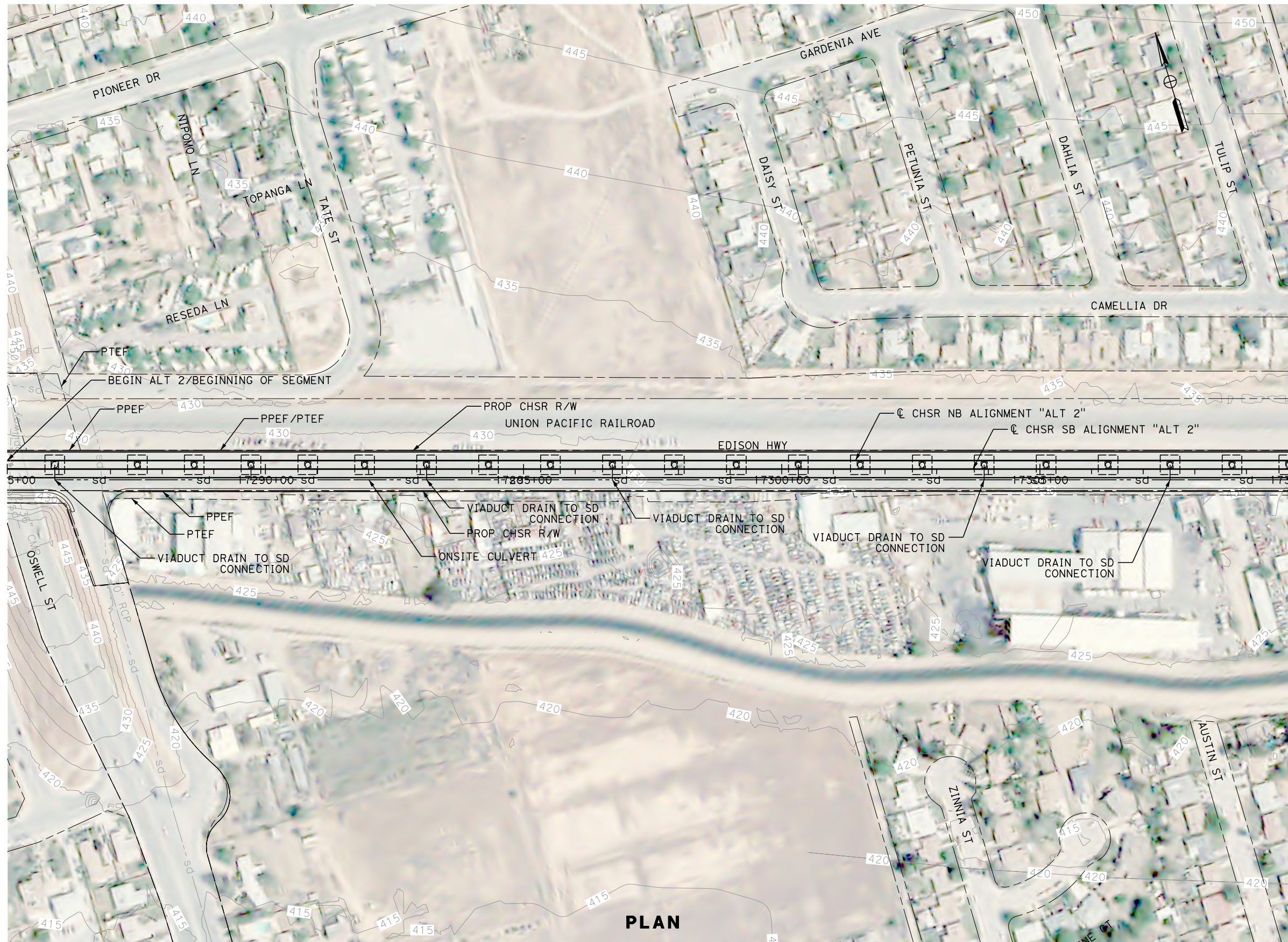
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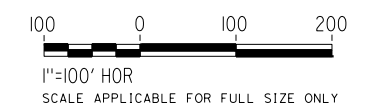
1/13/2021 4:54:55 PM

1/13/2021

Glenn.Yamanaka@tylin.com



MATCH LINE (CV-G4302)



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

RECORD SET
PEPD
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CONSTRUCTION



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17285+00 TO 17310+00

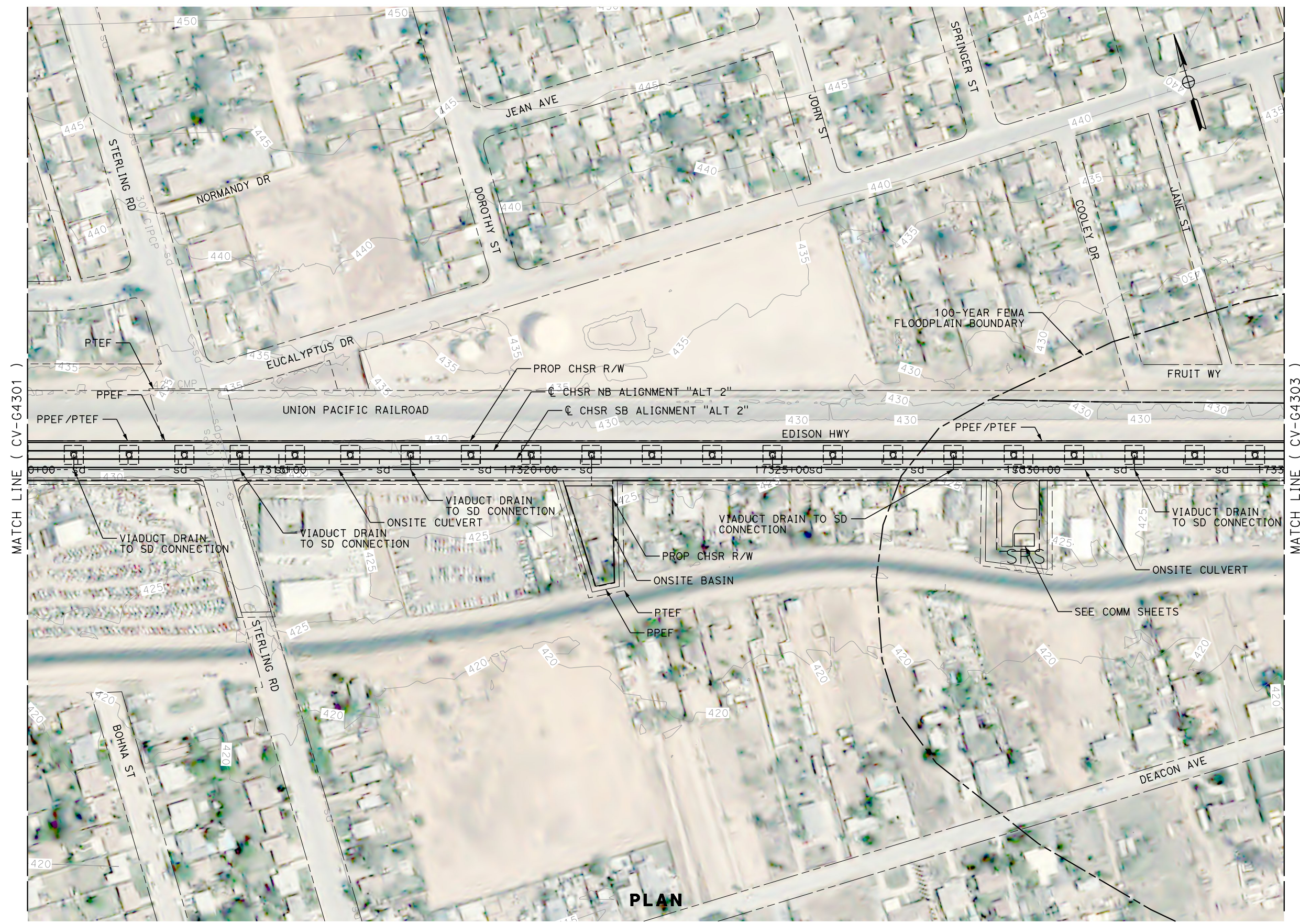
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HSR13-44
DRAWING NO.
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SCALE
AS SHOWN
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495

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1/13/2021

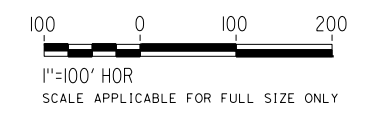
Glenn.Yamanaka@tylin.com



MATCH LINE (CV-G4301)

MATCH LINE (CV-G4303)

PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
12/21/2020

**RECORD SET
PEPD
SUBMITTAL**

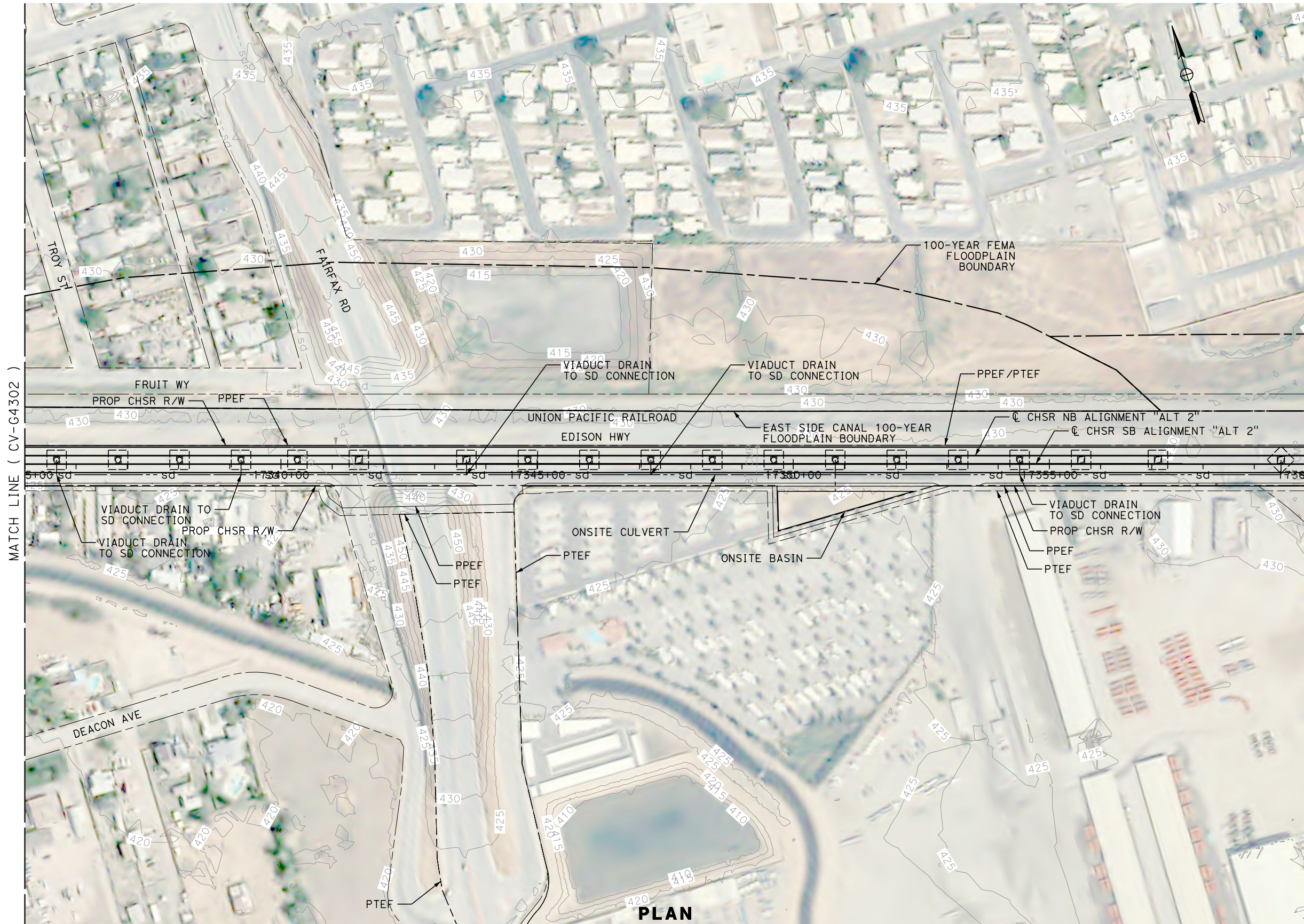
**NOT FOR
CONSTRUCTION**



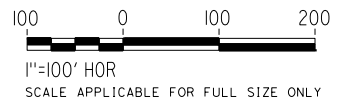
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17310+00 TO 17335+00

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4302
SCALE
AS SHOWN
SHEET NO.
496



PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
12/21/2020

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17335+00 TO 17360+00

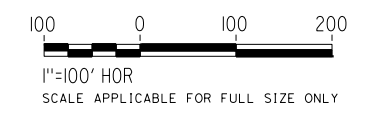
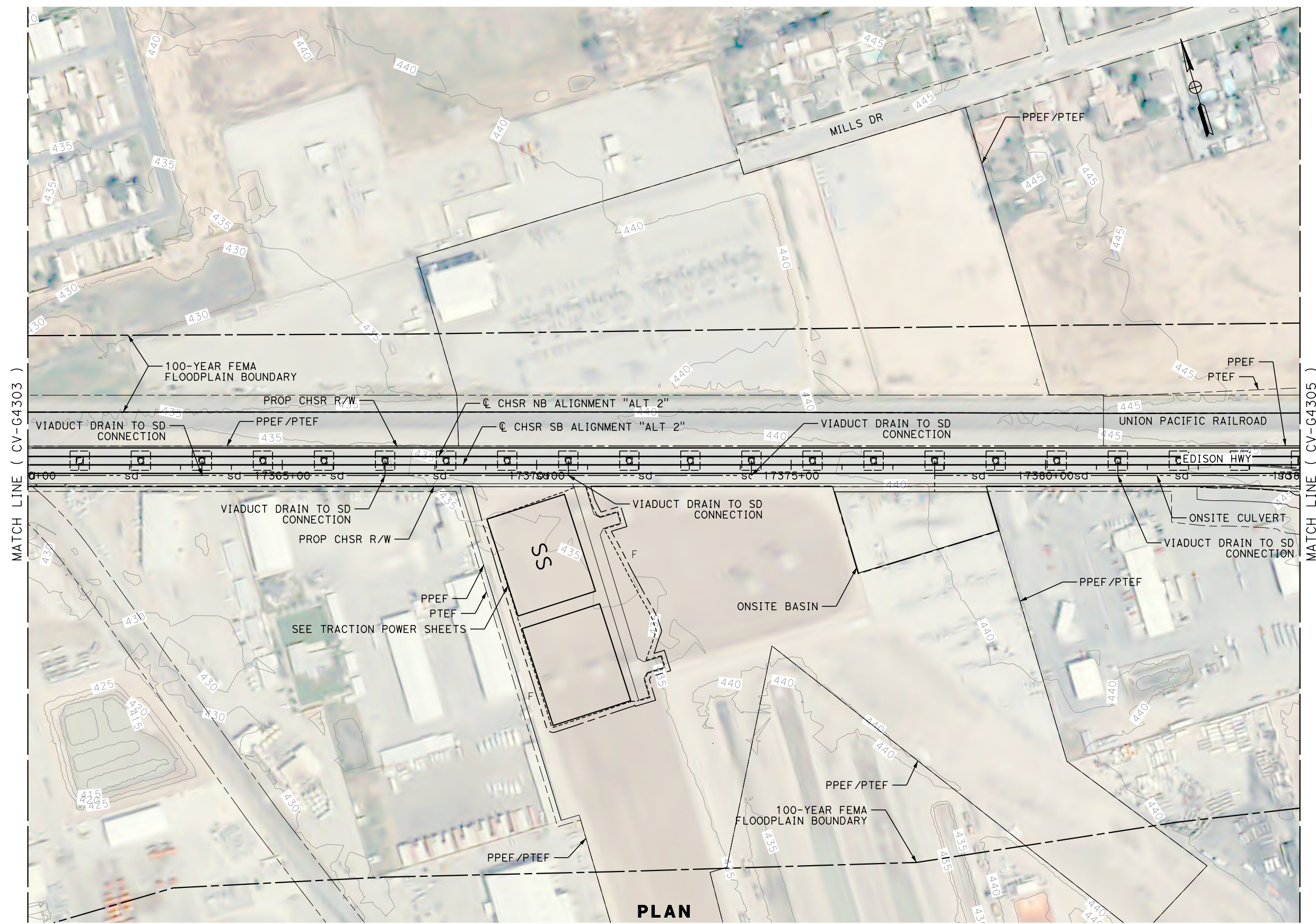
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HSR13-44
DRAWING NO.
CV-G4303
SCALE
AS SHOWN
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497

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4:56:47 PM

1/13/2021

Glenn.Yamanaka@tylin.com



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
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CONSTRUCTION**



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

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17360+00 TO 17385+00

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4304
SCALE
AS SHOWN
SHEET NO.
498

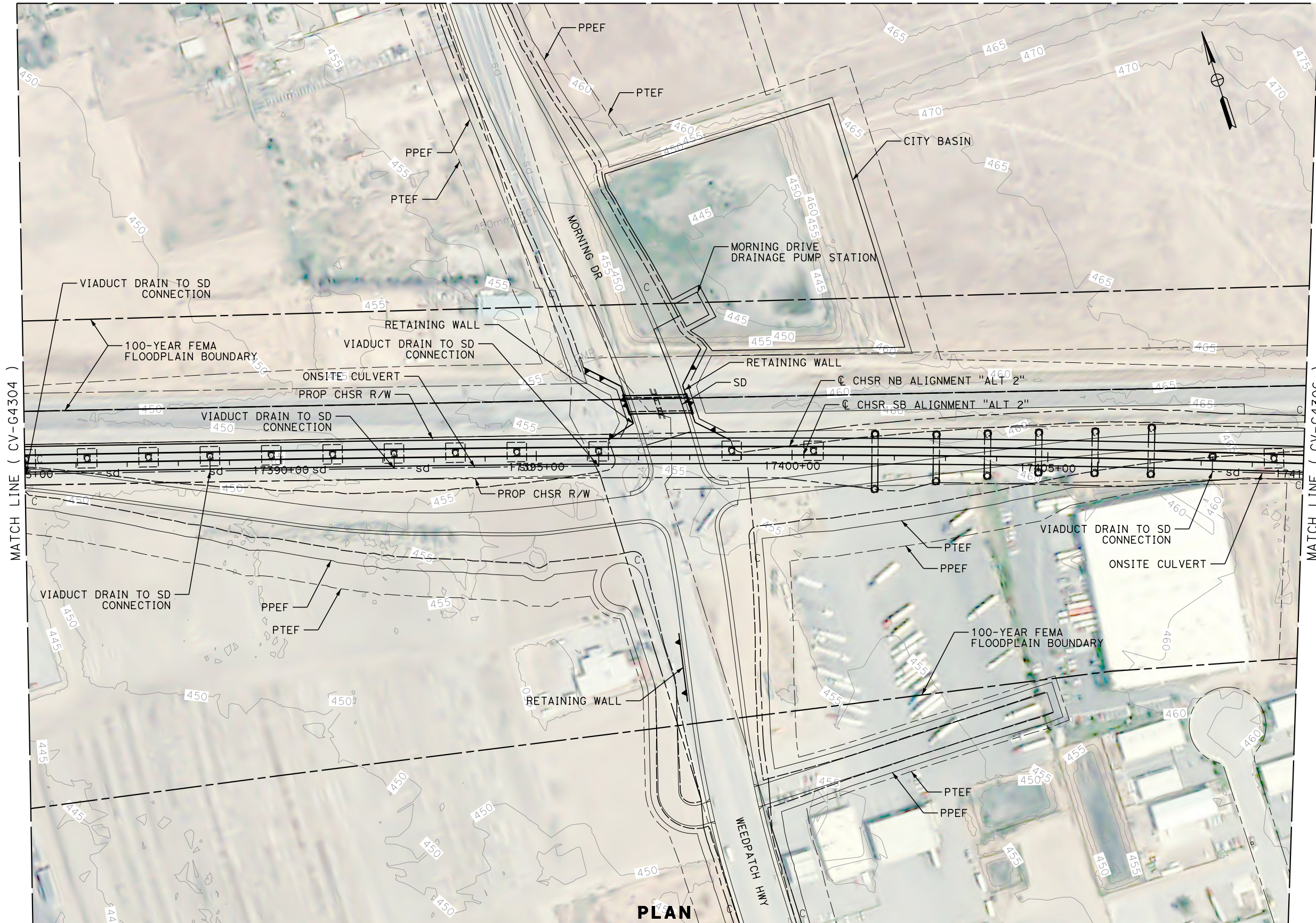
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1/13/2021

Glenn.Yamanaka@tylin.com

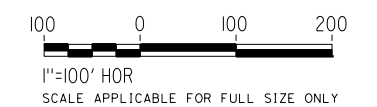
MATCH LINE (CV-G4326)



MATCH LINE (CV-G4304)

MATCH LINE (CV-G4306)

MATCH LINE (CV-G4327)



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
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CONSTRUCTION**



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

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17385+00 TO 17410+00

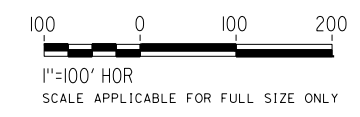
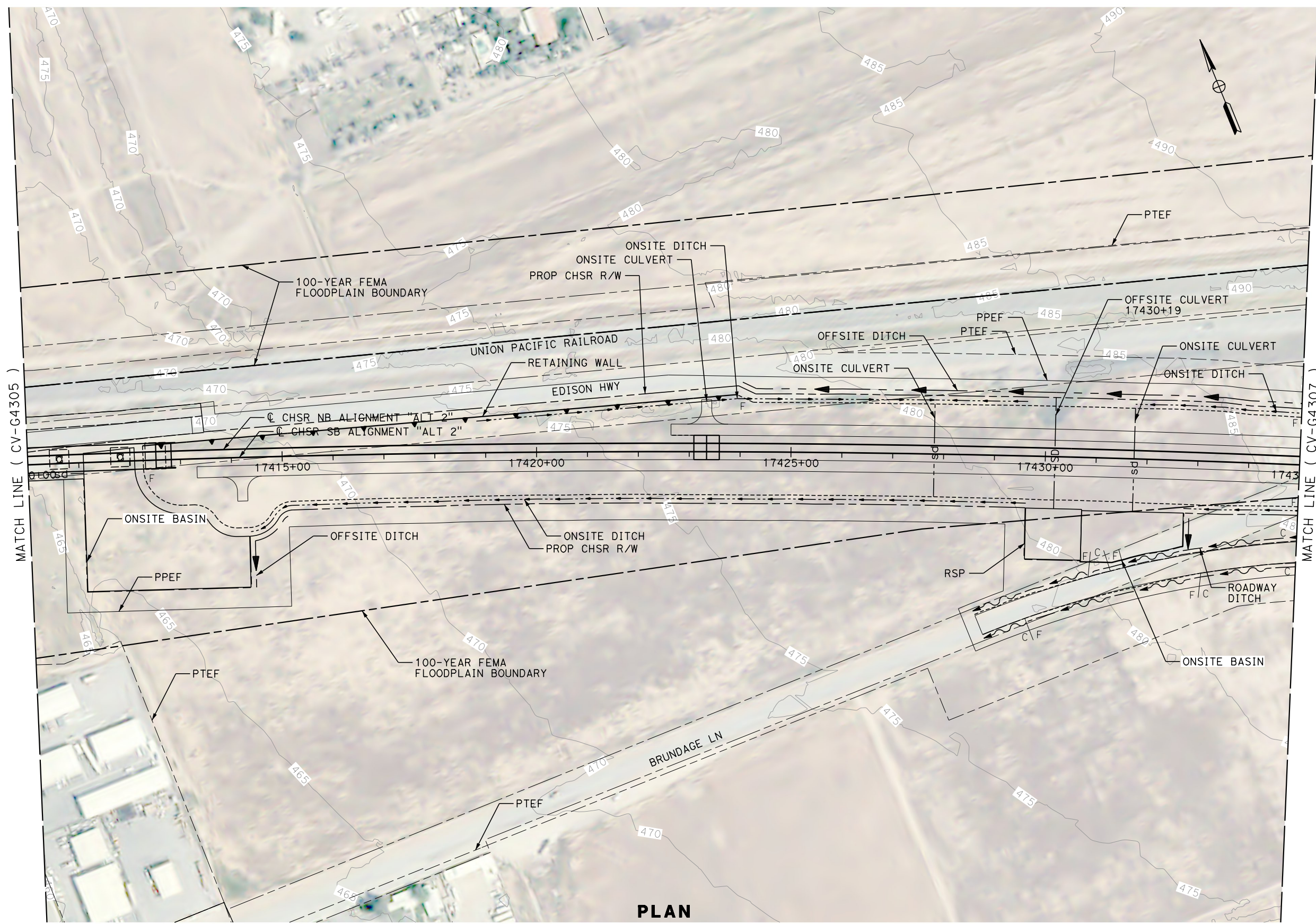
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DRAWING NO.
CV-G4305
SCALE
AS SHOWN
SHEET NO.
499

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1/13/2021

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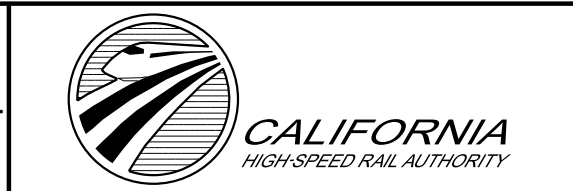
PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
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CONSTRUCTION**



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

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17410+00 TO 17435+00

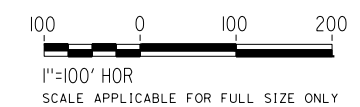
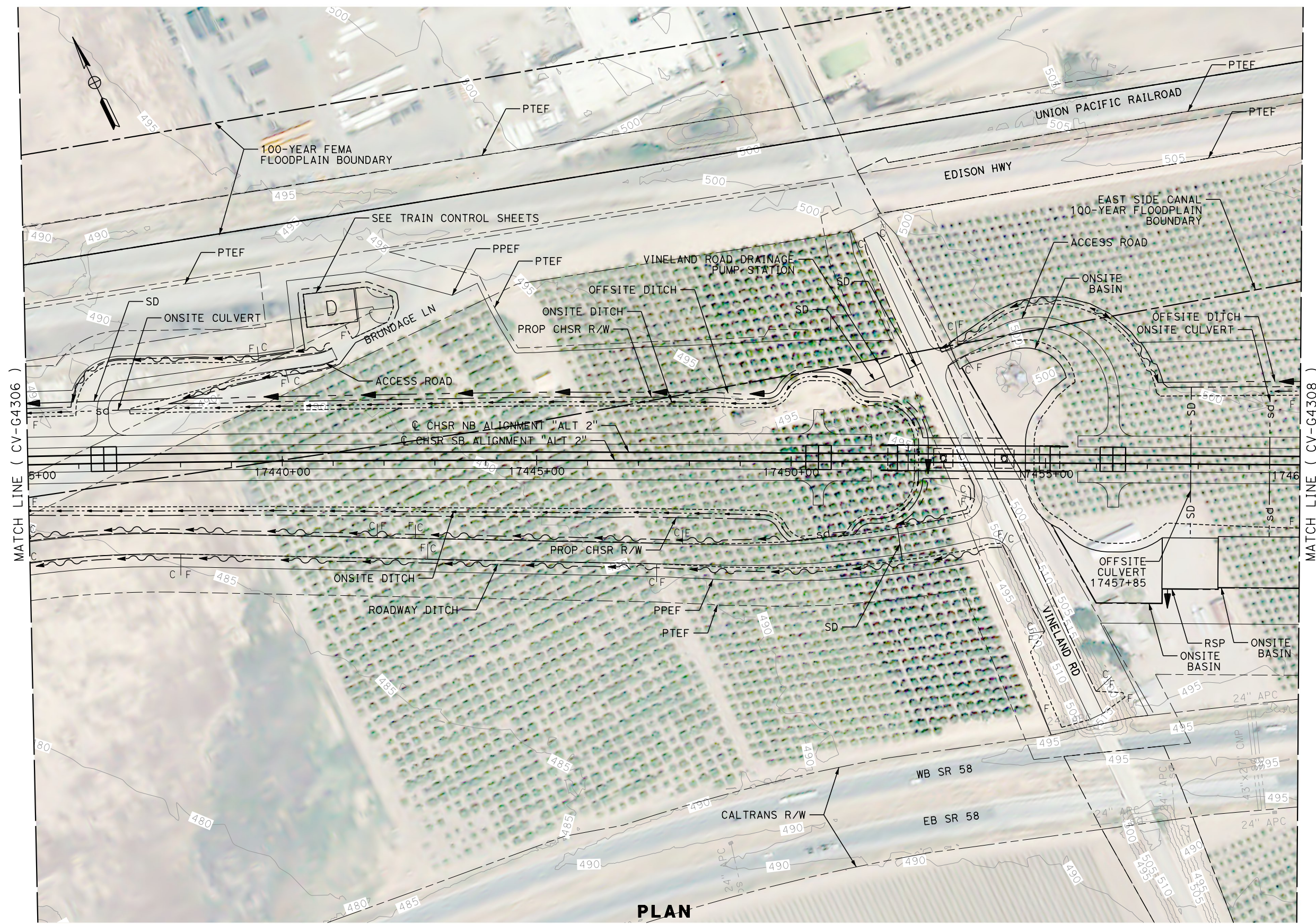
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DRAWING NO.
CV-G4306
SCALE
AS SHOWN
SHEET NO.
500

Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\CV\G\BP-CV-G4307

4:56:07 PM

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Glenn.Yamanaka@tylin.com



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

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

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17435+00 TO 17460+00

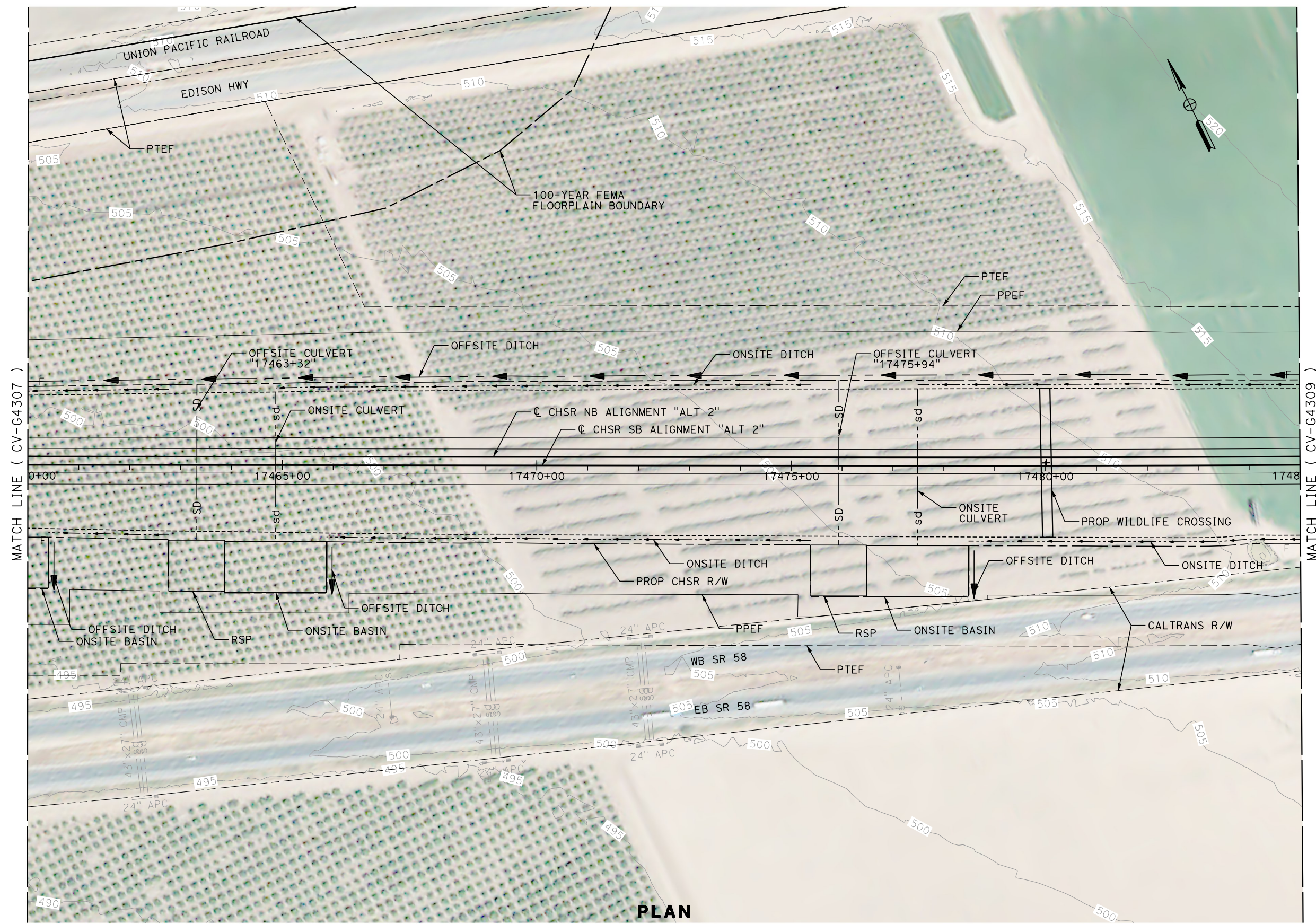
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HSR13-44
DRAWING NO.
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501

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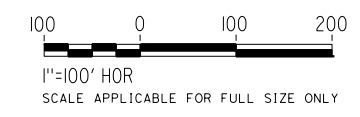
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1/13/2021

Glenn.Yamanaka@tylin.com



PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

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PEPD
SUBMITTAL**

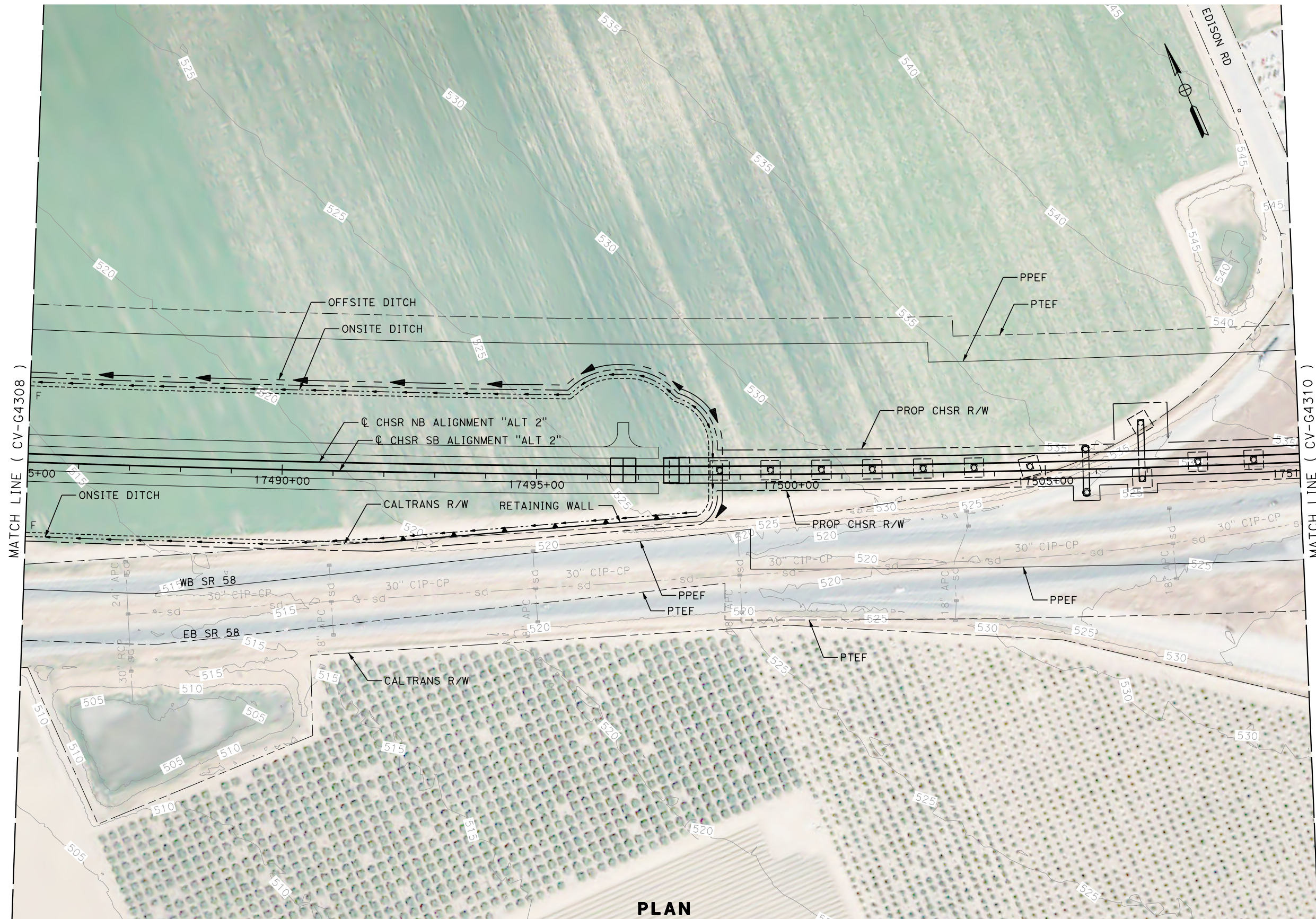
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CONSTRUCTION**



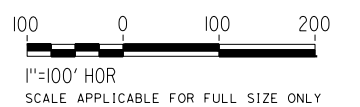
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17460+00 TO 17485+00

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4308
SCALE
AS SHOWN
SHEET NO.
502



PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

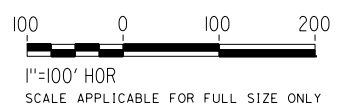
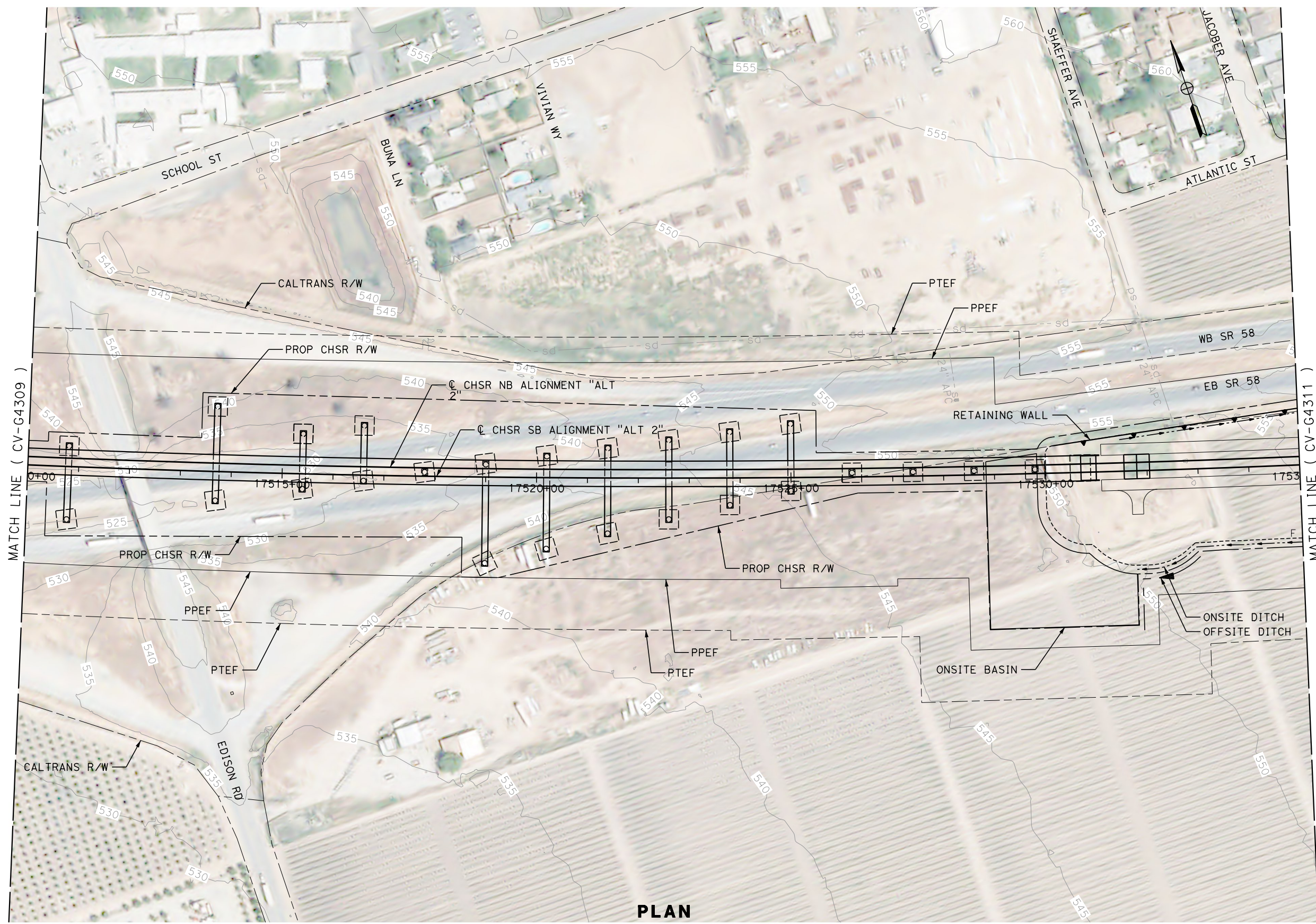
ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17485+00 TO 17510+00

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4309
SCALE
AS SHOWN
SHEET NO.
503

Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\CV\G\BP-CV-G4310

1/13/2021 4:57:43 PM

Glenn.Yamanaka@tylin.com



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

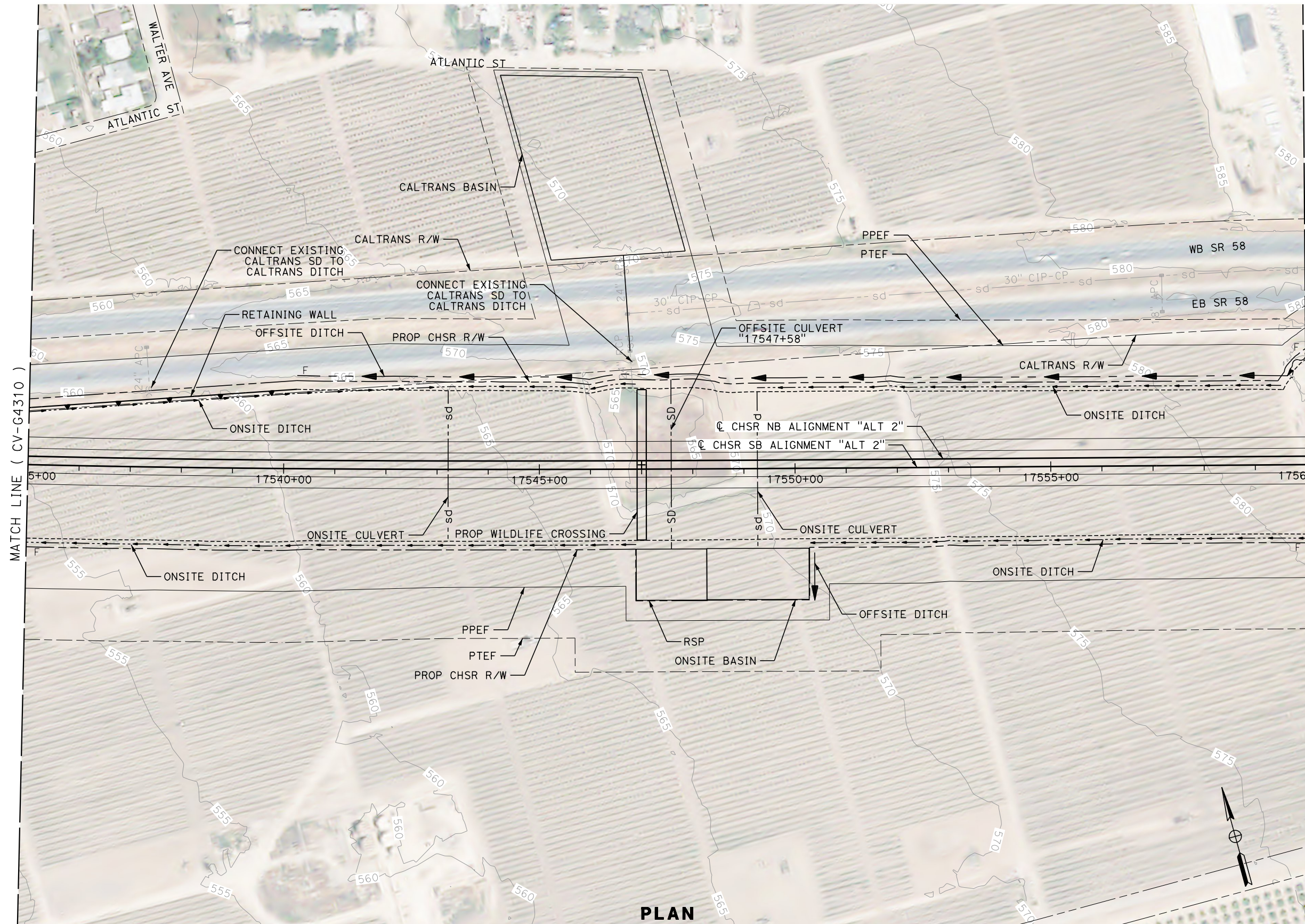
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CONSTRUCTION**



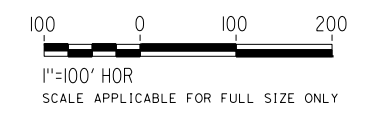
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17510+00 TO 17535+00

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4310
SCALE
AS SHOWN
SHEET NO.
504



PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
 DRAWN BY
V. CERON
 CHECKED BY
G. CAMPBELL
 IN CHARGE
G. CAMPBELL
 DATE
01/29/2021

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PEPD
SUBMITTAL**

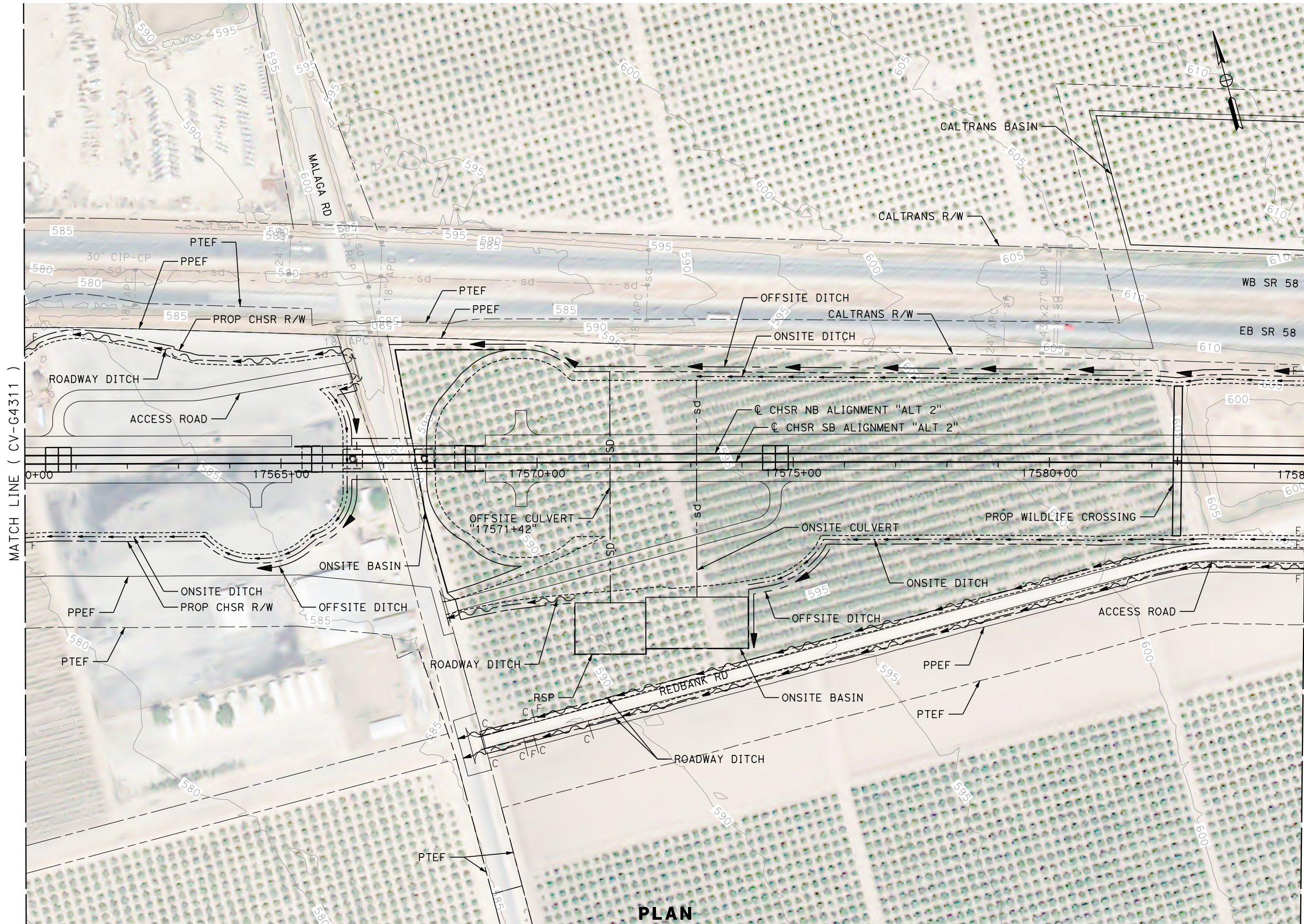
**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 2
 GRADING AND DRAINAGE
 PLAN
 STA 17535+00 TO 17560+00

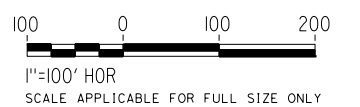
CONTRACT NO.
HSR13-44
 DRAWING NO.
CV-G4311
 SCALE
AS SHOWN
 SHEET NO.
505



MATCH LINE (CV-G4311)

MATCH LINE (CV-G4313)

PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

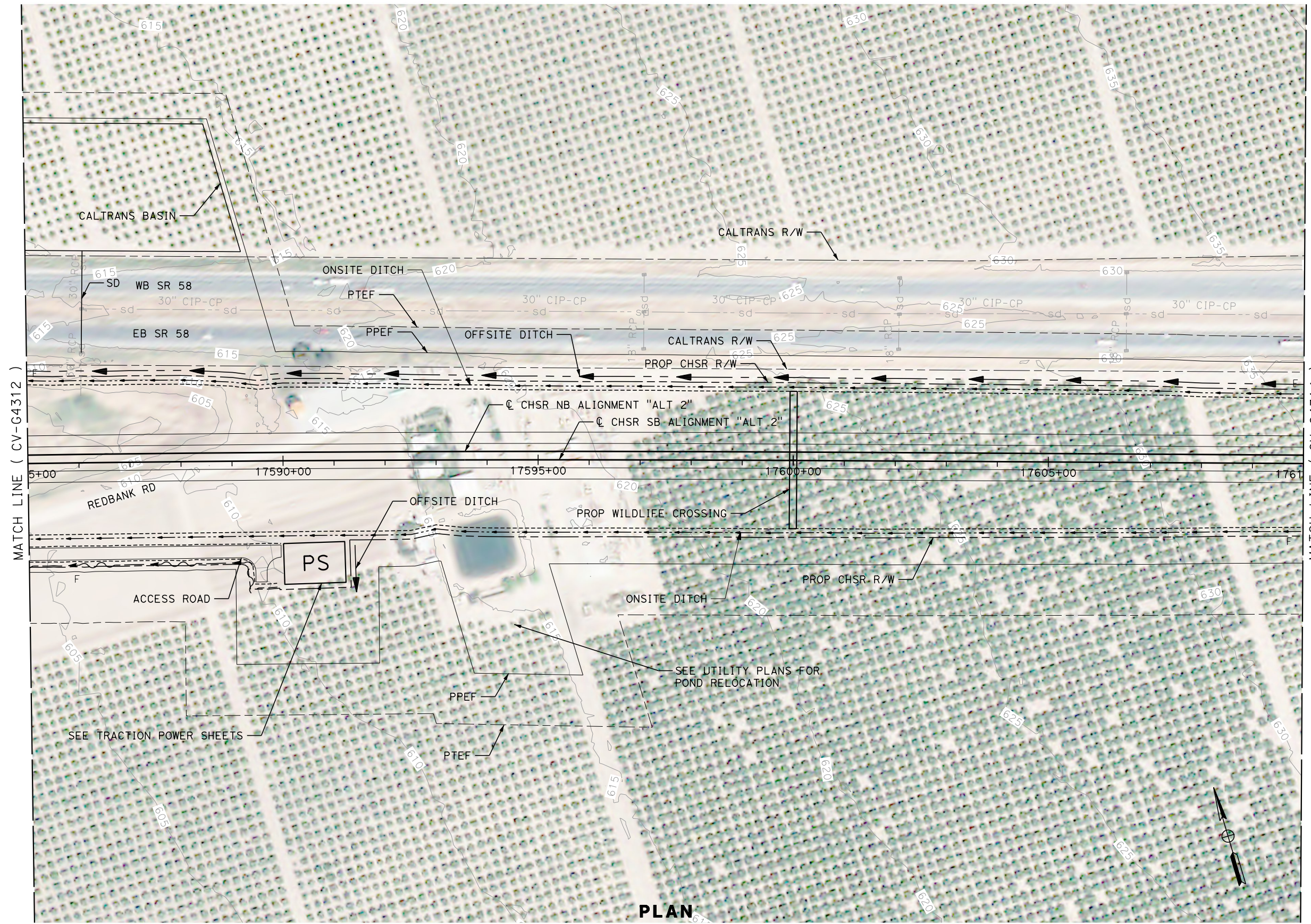
ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17560+00 TO 17585+00

CONTRACT NO.
HSR13-44

DRAWING NO.
CV-G4312

SCALE
AS SHOWN

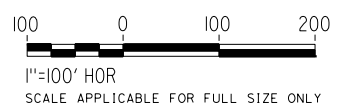
SHEET NO.
506



MATCH LINE (CV-G4312)

MATCH LINE (CV-G4314)

PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17585+00 TO 17610+00

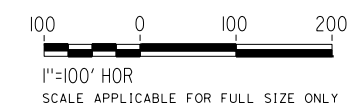
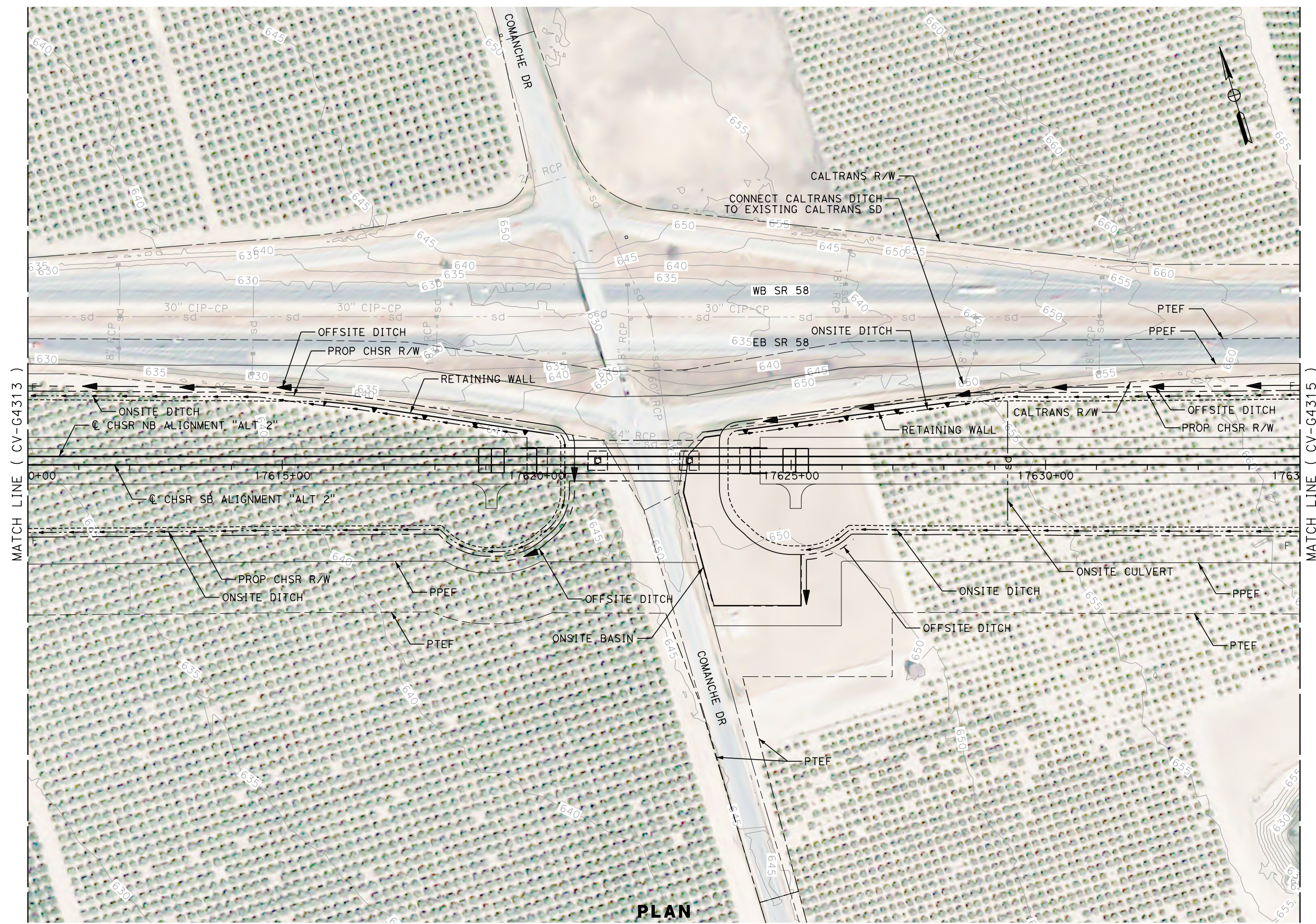
CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4313
SCALE
AS SHOWN
SHEET NO.
507

Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\CV\G\BP-CV-G4314

4:58:02 PM

1/13/2021

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PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

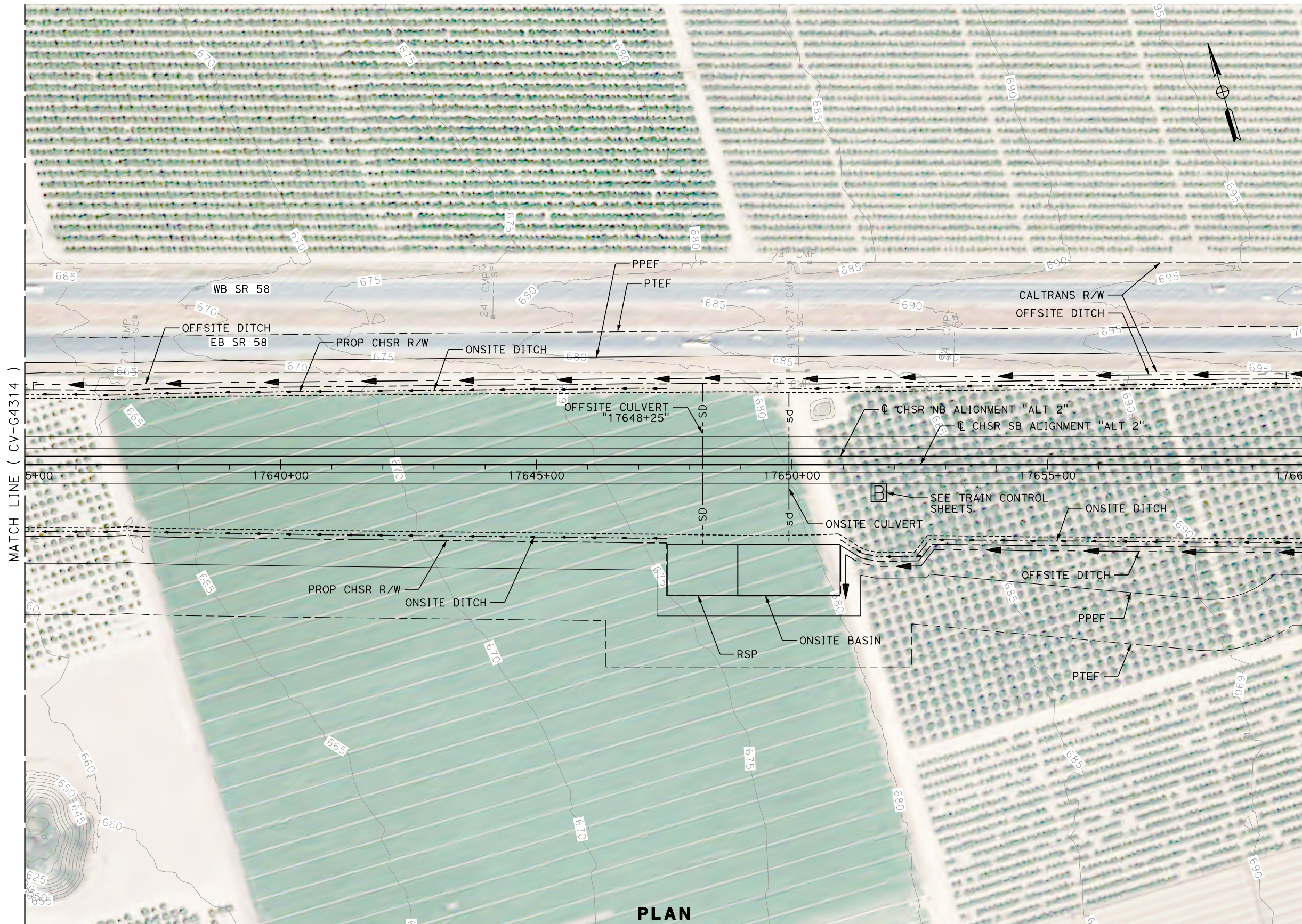
**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17610+00 TO 17635+00

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4314
SCALE
AS SHOWN
SHEET NO.
508



PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

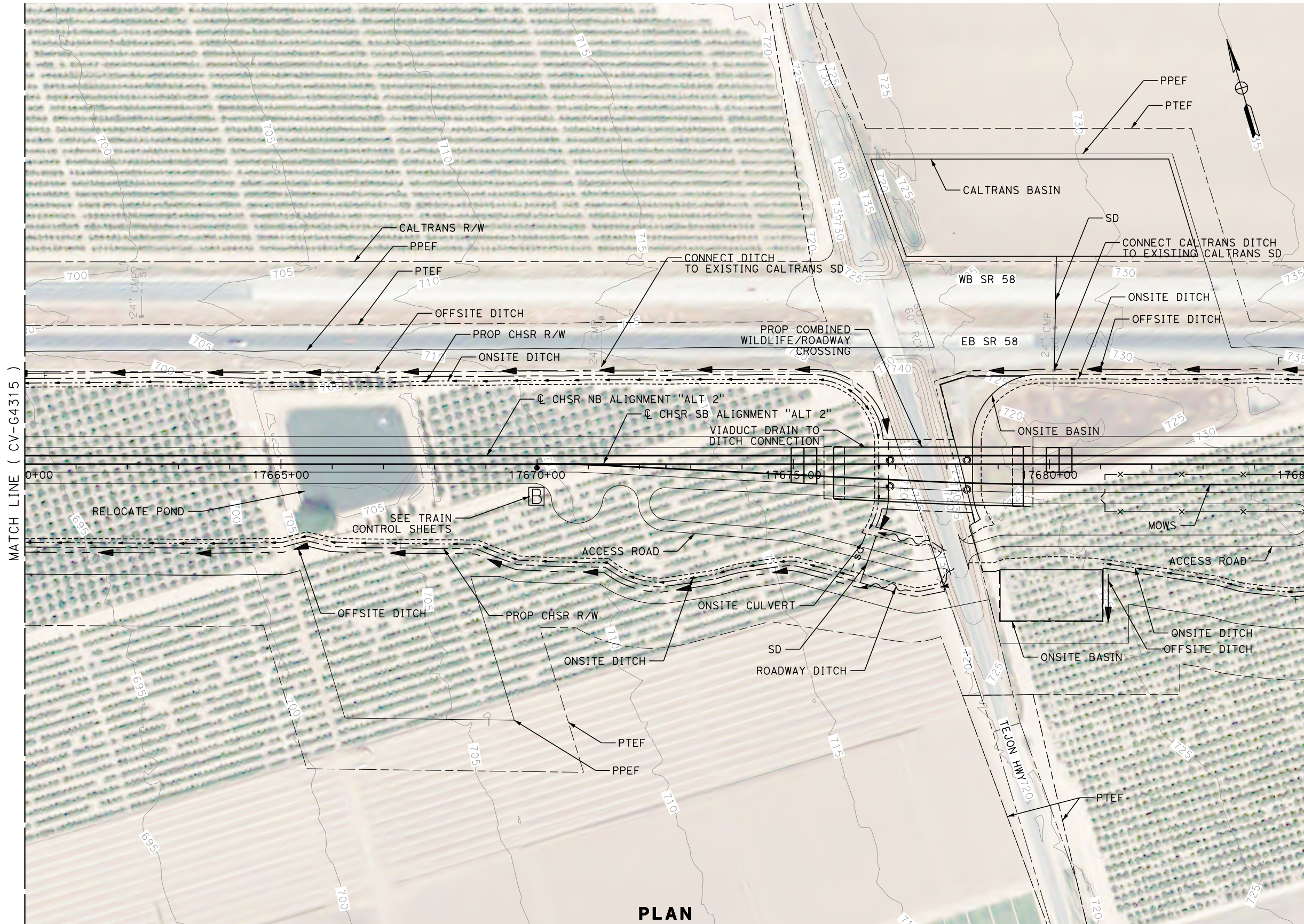
**NOT FOR
CONSTRUCTION**



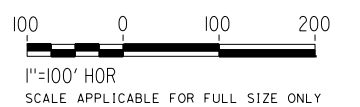
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17635+00 TO 17660+00

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4315
SCALE
AS SHOWN
SHEET NO.
509



PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

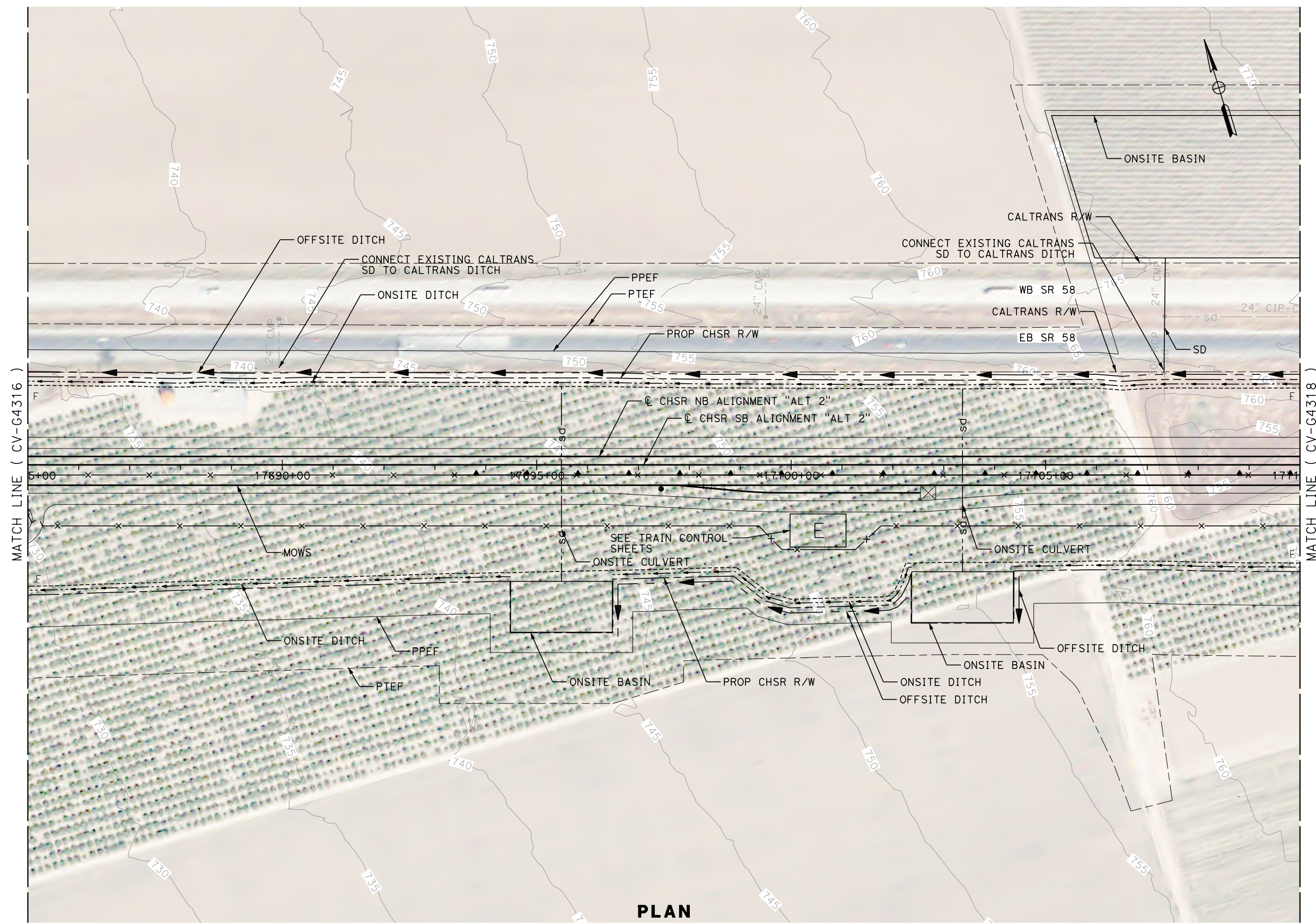
**NOT FOR
CONSTRUCTION**



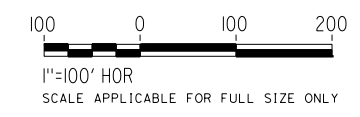
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17660+00 TO 17685+00

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4316
SCALE
AS SHOWN
SHEET NO.
510



PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
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SUBMITTAL**

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CONSTRUCTION**



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

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17685+00 TO 17710+00

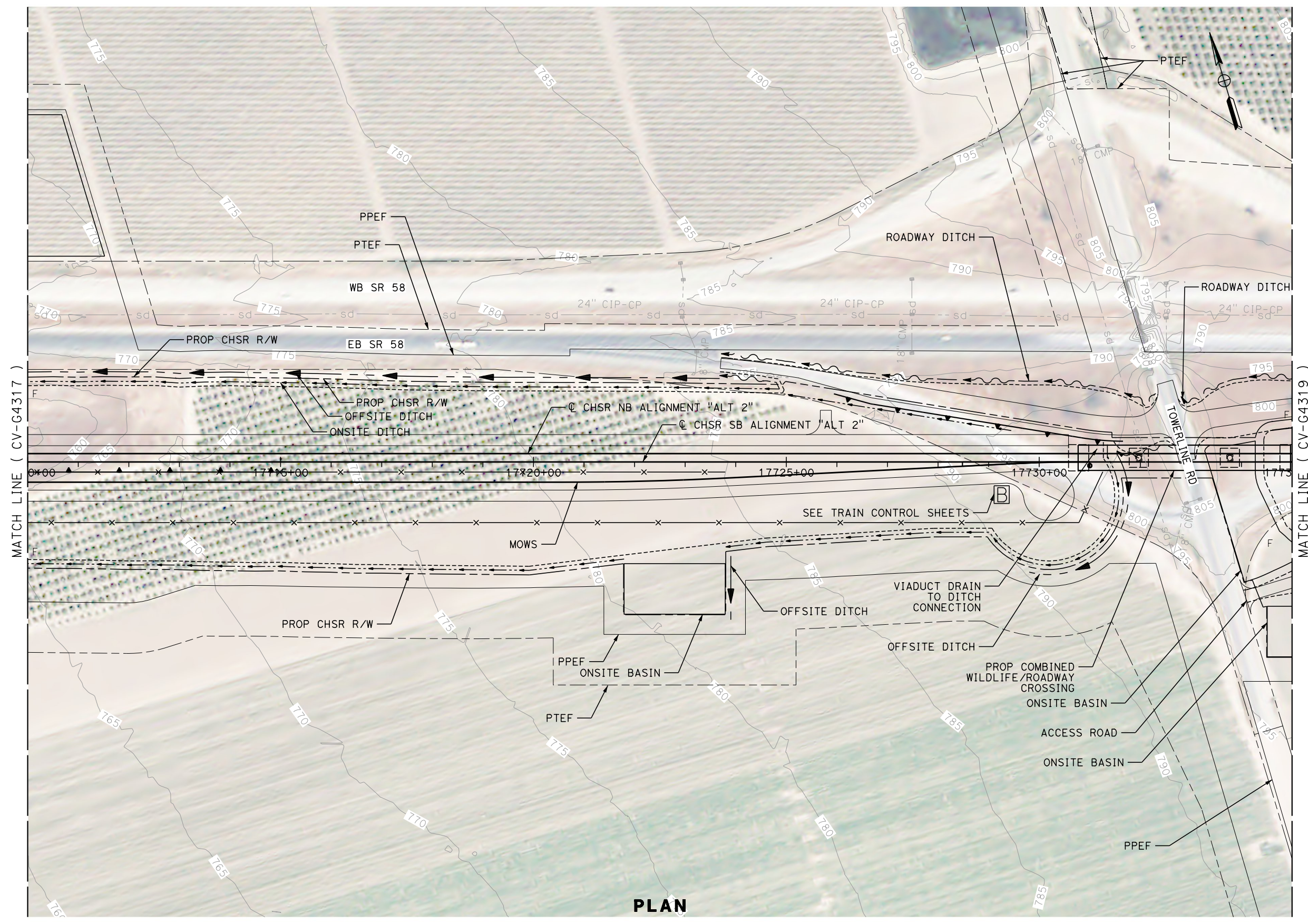
CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4317
SCALE
AS SHOWN
SHEET NO.
511

Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\CV\G\BP-CV-G4318

4:58:52 PM

1/13/2021

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PLAN

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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V. CERON
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IN CHARGE
G. CAMPBELL
DATE
01/29/2021

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CONSTRUCTION**



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

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17710+00 TO 17735+00

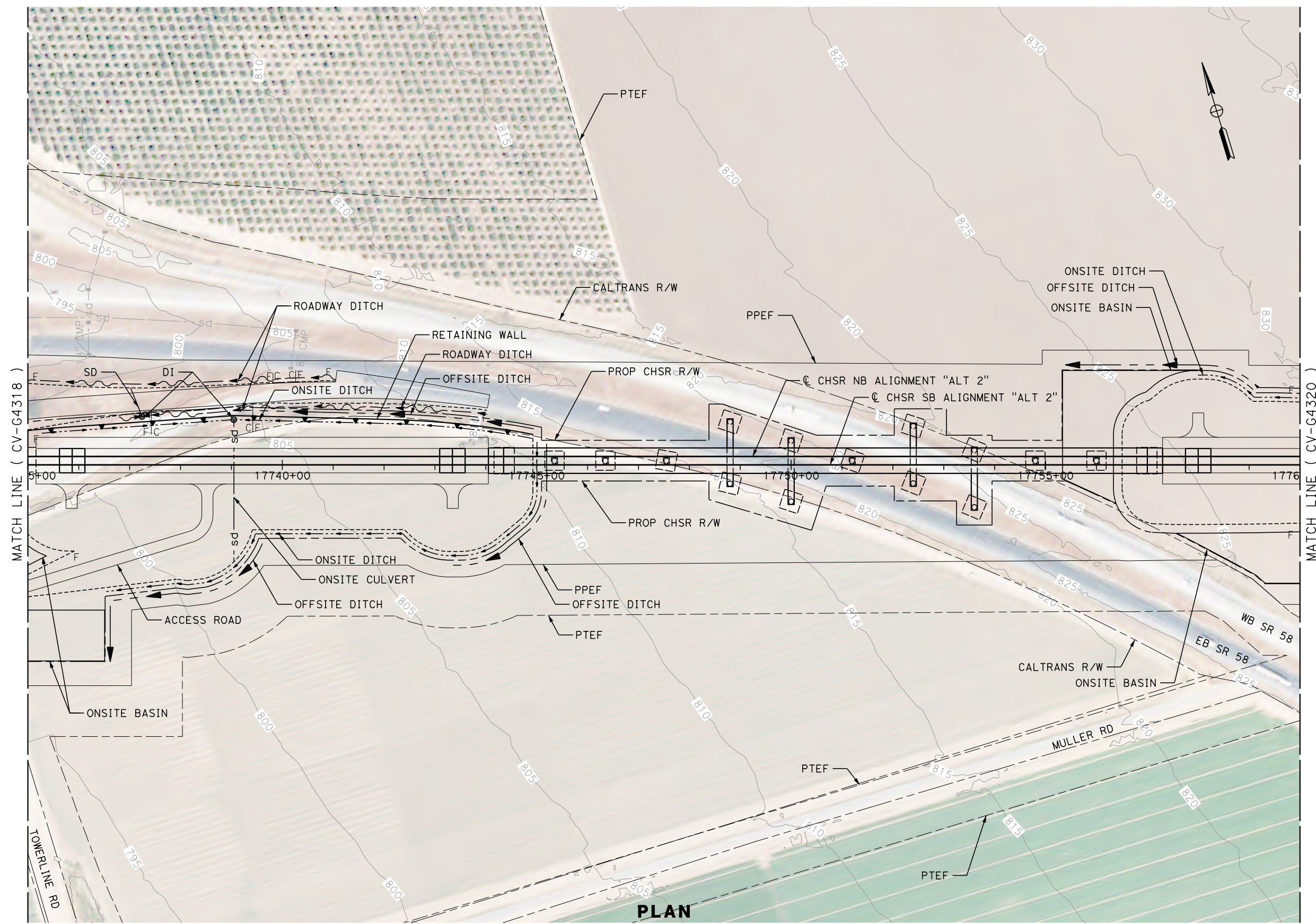
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SCALE
AS SHOWN
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512

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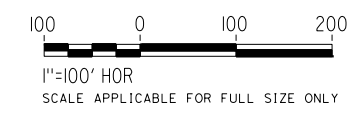
4:58:42 PM

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PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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V. CERON
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IN CHARGE
G. CAMPBELL
DATE
01/29/2021

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PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

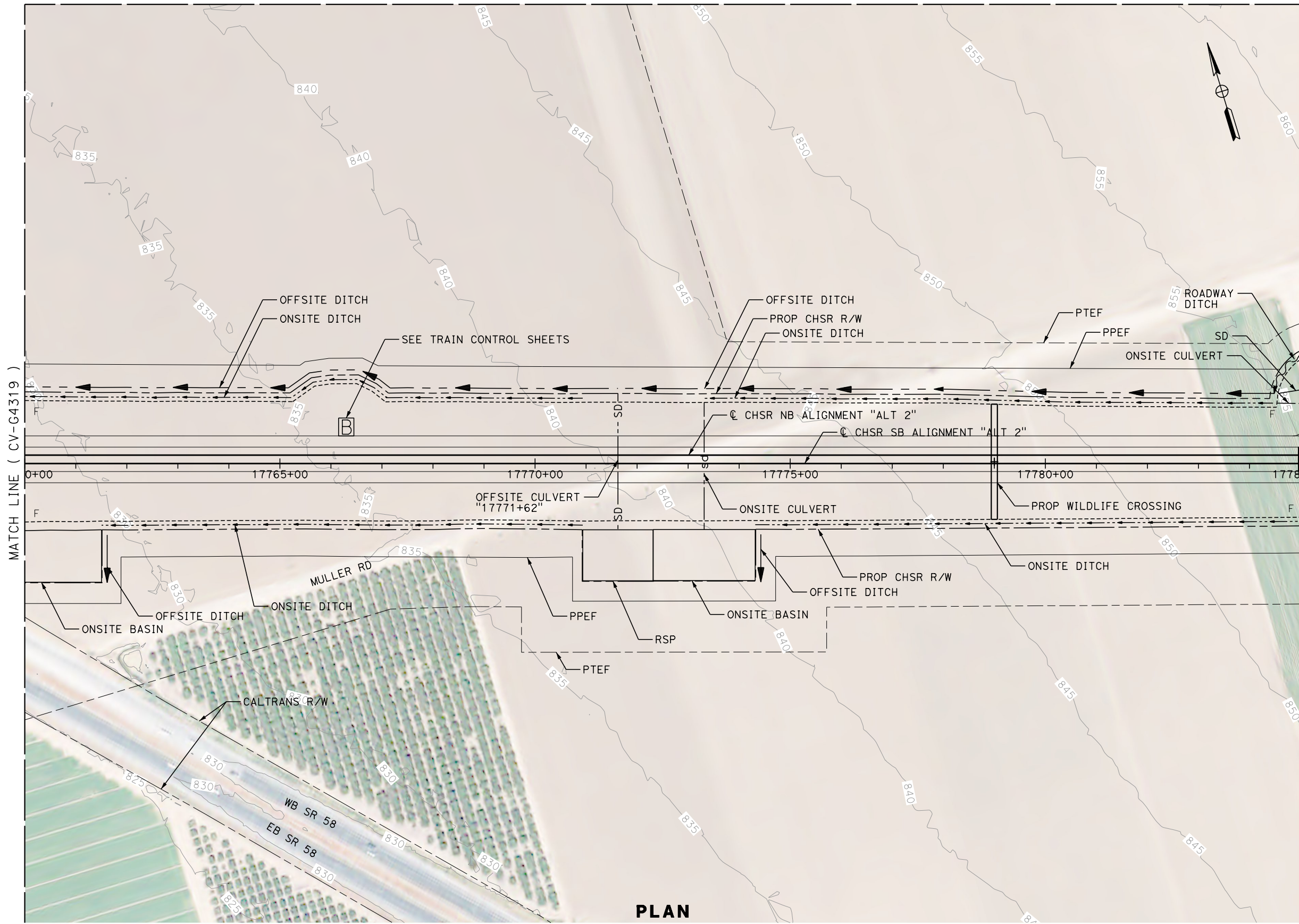


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17735+00 TO 17760+00

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4319
SCALE
AS SHOWN
SHEET NO.
513

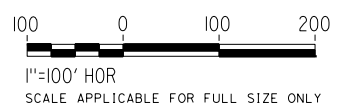
MATCH LINE (CV-G4328)



MATCH LINE (CV-G4319)

MATCH LINE (CV-G4321)

PLAN



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\CV\G\BP-CV-G4320

4:59:00 PM

1/13/2021

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
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V. CERON
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G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

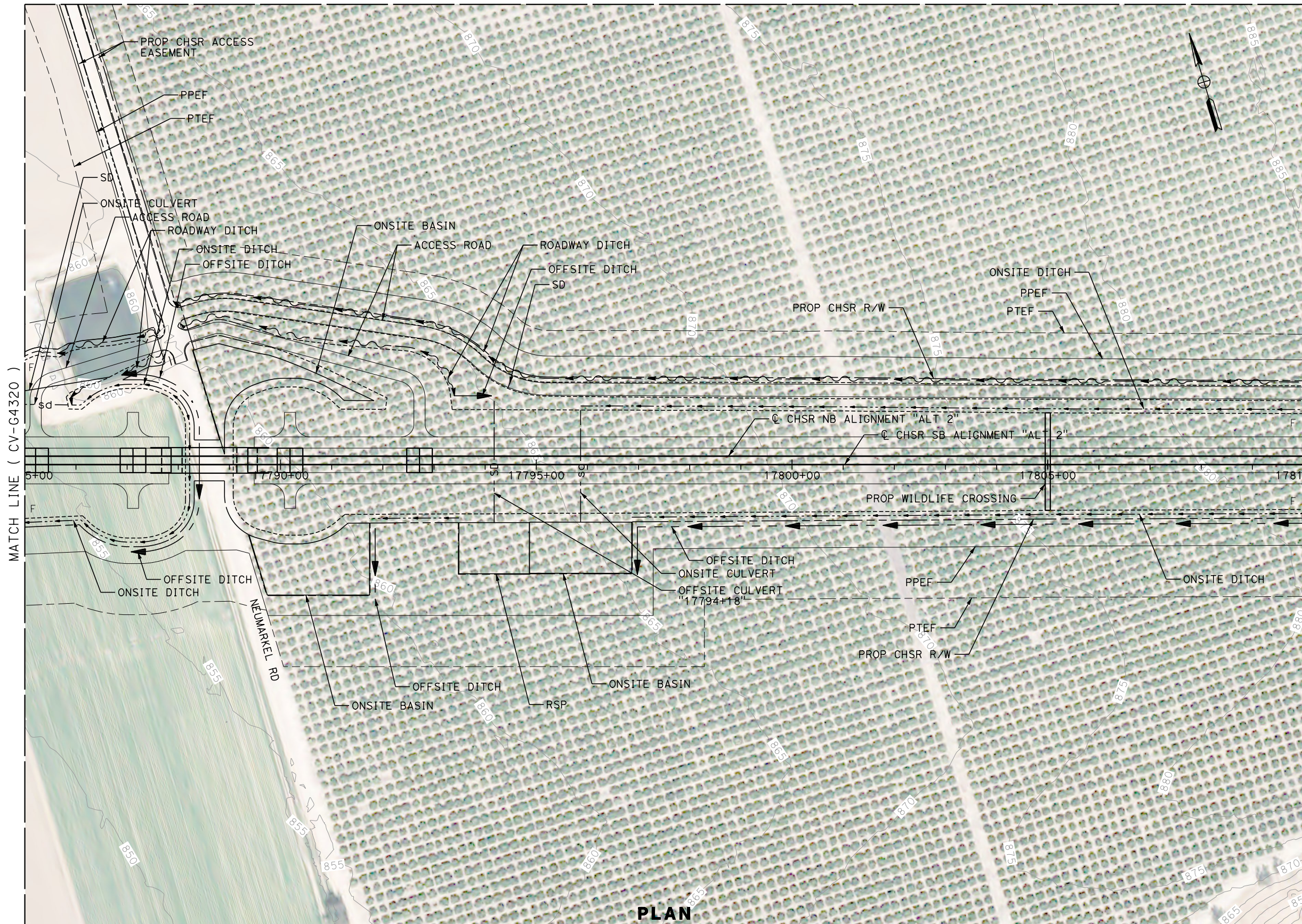


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17760+00 TO 17785+00

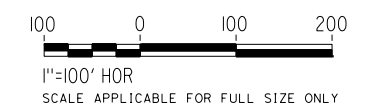
CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4320
SCALE
AS SHOWN
SHEET NO.
514

MATCH LINE (CV-G4328)



MATCH LINE (CV-G4320)

MATCH LINE (CV-G4322)



PLAN

Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\CV\G\BP-CV-G4321

1/13/2021 4:41:42 PM

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

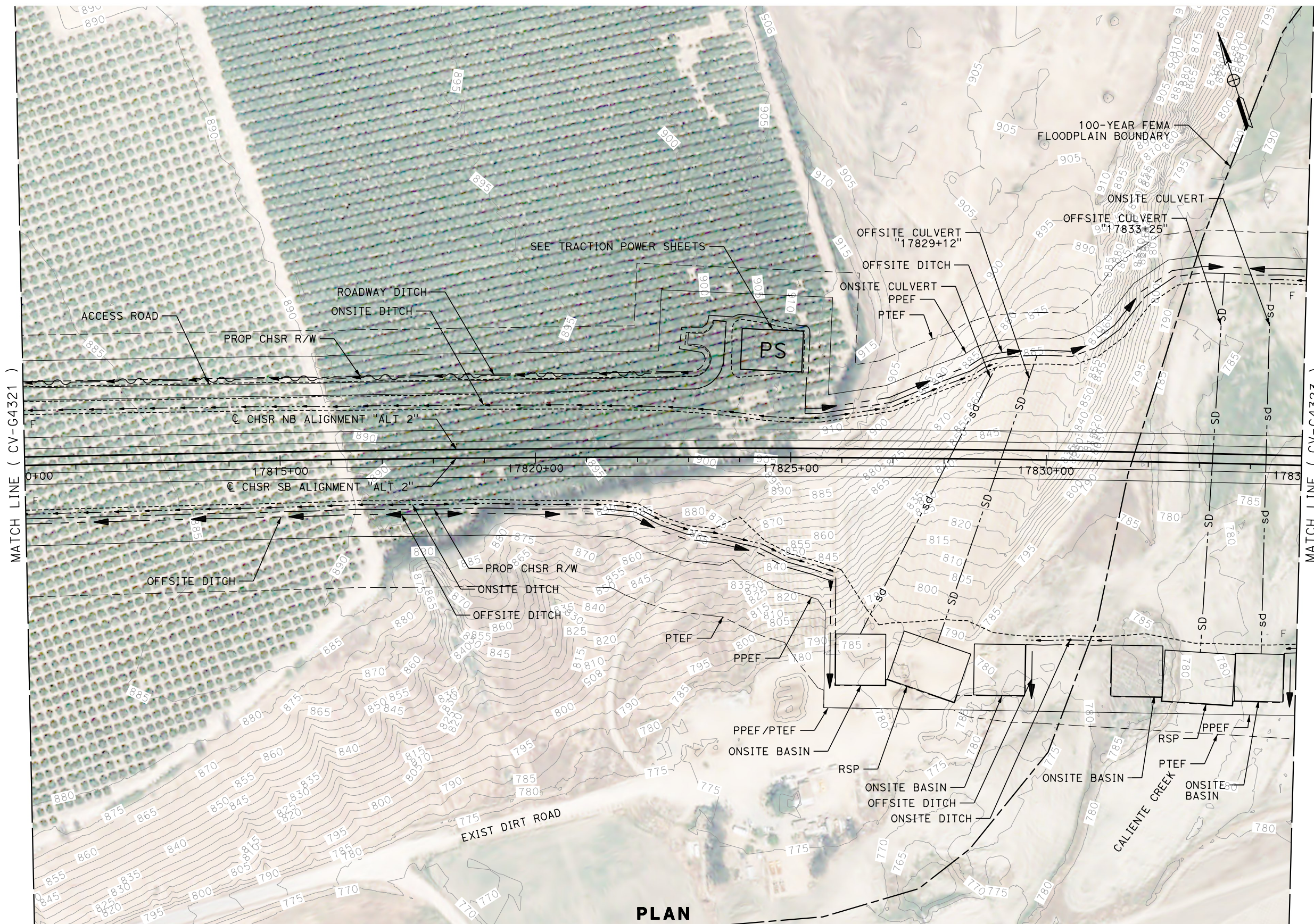
**NOT FOR
CONSTRUCTION**



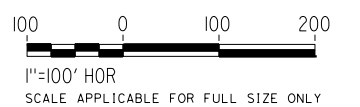
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17785+00 TO 17810+00

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4321
SCALE
AS SHOWN
SHEET NO.
515



PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17810+00 TO 17835+00

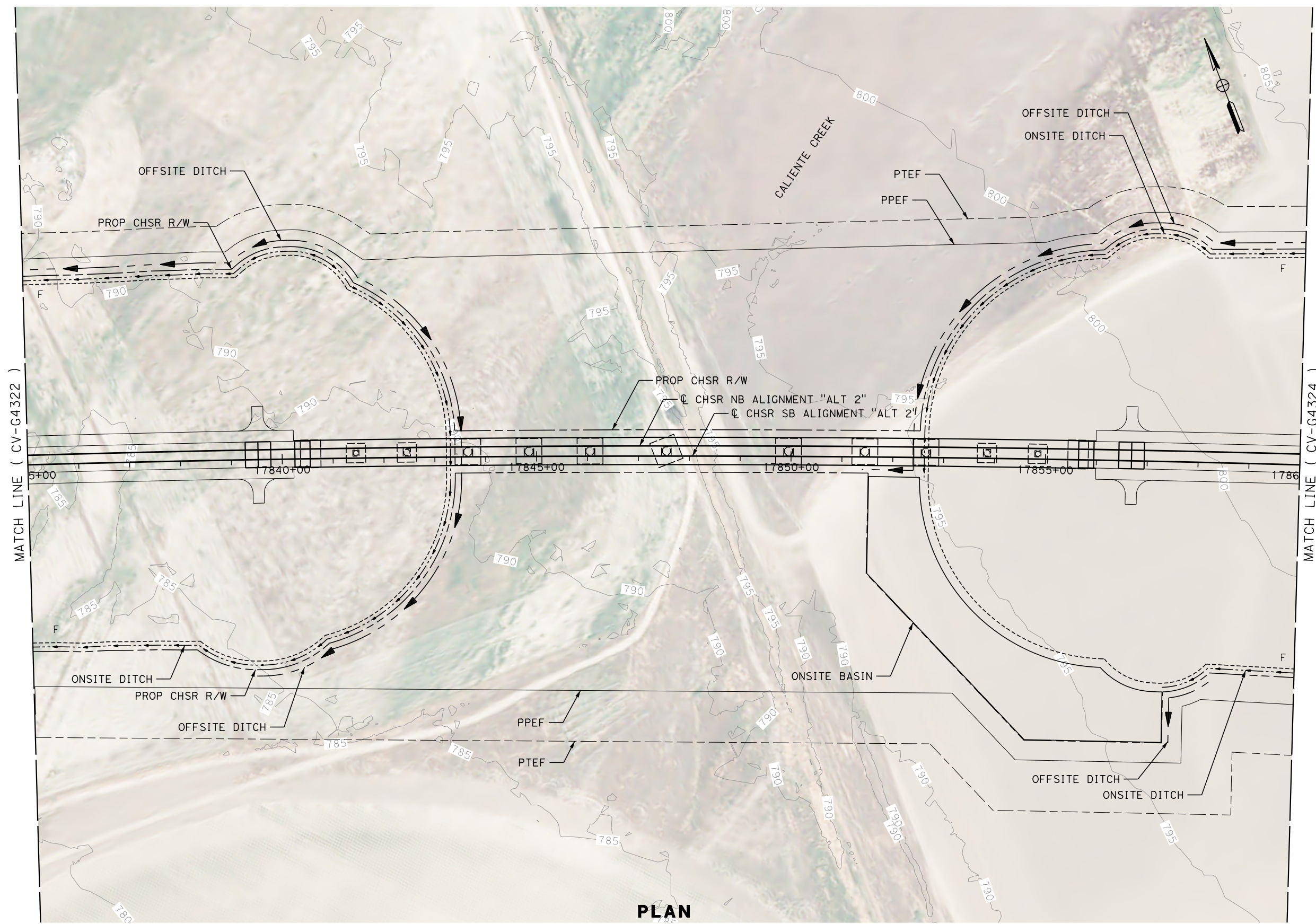
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HSR13-44
DRAWING NO.
CV-G4322
SCALE
AS SHOWN
SHEET NO.
516

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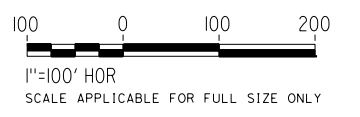
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1/13/2021

Glenn.Yamanaka@tylin.com



PLAN

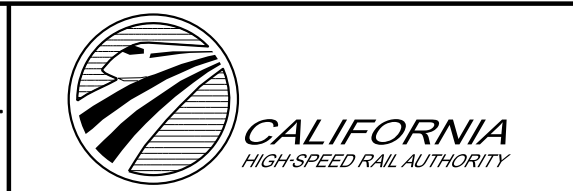


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
G. YAMANAKA
DRAWN BY
V. CERON
CHECKED BY
G. CAMPBELL
IN CHARGE
G. CAMPBELL
DATE
01/29/2021

**RECORD SET
PEPD
SUBMITTAL**

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CONSTRUCTION**



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

ALTERNATIVE 2
GRADING AND DRAINAGE
PLAN
STA 17835+00 TO 17860+00

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4323
SCALE
AS SHOWN
SHEET NO.
517