

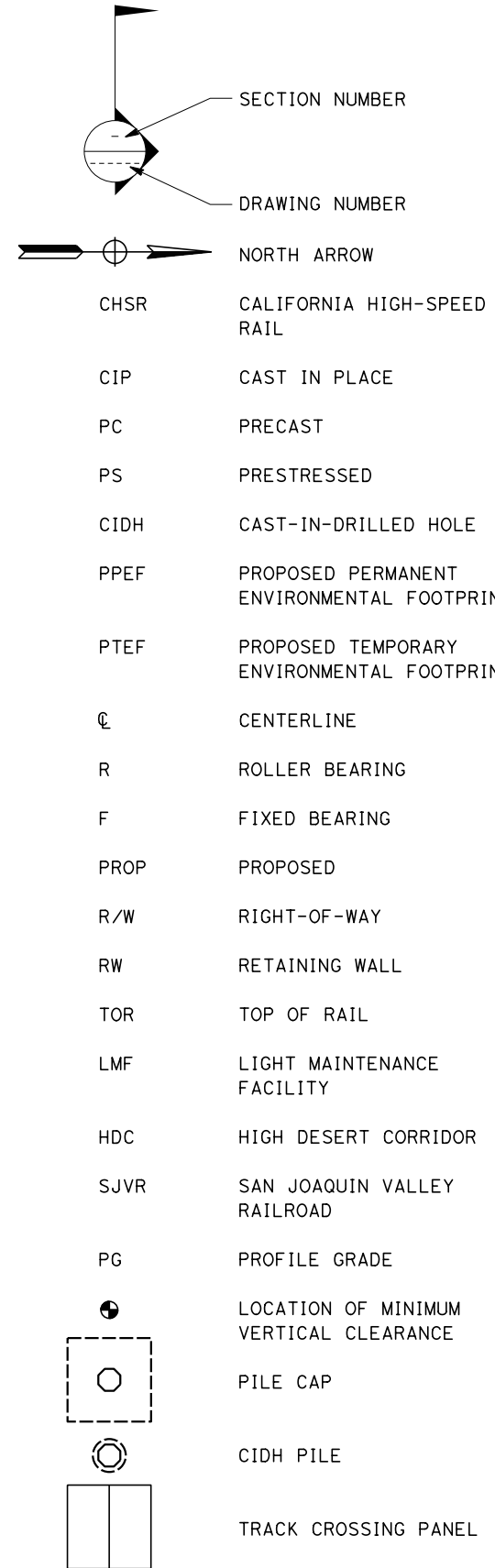
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**LEGEND**



- ① CONCRETE BARRIER INTRUSION PROTECTION
- ② CONCRETE BARRIER TYPE 742 (Mod)
- ③ CONCRETE BARRIER TYPE 732SW
- ④ SOLID METAL FENCE ON CONCRETE BARRIER WITHOUT SIDEWALK. SEE NOTE 11.
- ⑤ STRUCTURE APPROACH SLAB
- ⑥ RETAINING WALL
- ⑦ SOLID METAL FENCE ON CONCRETE BARRIER WITH SIDEWALK
- ⑧ CONCRETE BARRIER TYPE 732
- ⑨ METAL HANDRAILING
- ⑩ CHAIN LINK FENCE

**GENERAL NOTES**

1. UTILITY LOCATIONS TO BE DETERMINED.
2. FOR DETAILS NOT NOTED ON PLAN AND ELEVATION SHEETS, SEE TYPICAL SECTION SHEETS FOR TRACK STRUCTURES.
3. GRADE ELEVATIONS SHOWN ARE AT TOP OF RAIL.
4. ALL COLUMNS ARE NORMAL TO THE STATION LINE UNLESS OTHERWISE SHOWN.
5. REFER TO TRACK ALIGNMENT DRAWINGS FOR CURVE AND TANGENT INFORMATION.
6. NOT ALL PILES ARE SHOWN.
7. PILE SIZES AND LENGTHS TO BE DETERMINED.
8. SUPERSTRUCTURE CONSISTS OF PRECAST CONCRETE GIRDERS UNLESS OTHERWISE NOTED.
9. BEARINGS ARTICULATION FOR PC GIRDER SPANS ARE FIXED-ROLLER AT OPPOSING SPAN ENDS UNLESS OTHERWISE NOTED.
10. REFER TO ROADWAY DRAWINGS FOR GEOMETRIC INFORMATION OF ROADWAY STRUCTURES.
11. EXTEND SOLID FENCE 30 FEET FROM CENTERLINE OF OUTERMOST TRACK OR 10 FEET BEYOND THE OUTERMOST ENERGIZED CONDUCTOR OR COMPONENT, WHICHEVER IS GREATER.
12. PROPOSED 4" CHSR FIRE WATER PIPELINE ROUTES THROUGH STRUCTURES FROM STATION 18035+00 TO STATION 19590+00.
13. PROPOSED CHSR ELECTRIC POWER CONDUIT ROUTES THROUGH STRUCTURES FROM STATION 18035+00 TO STATION 19590+00.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

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 1, 2, 3, 5  
TRACK AND ROADWAY STRUCTURES  
GENERAL NOTES AND LEGEND

CONTRACT NO.  
HSR13-44

DRAWING NO.  
ST-B0003

SCALE  
AS SHOWN

SHEET NO.  
758

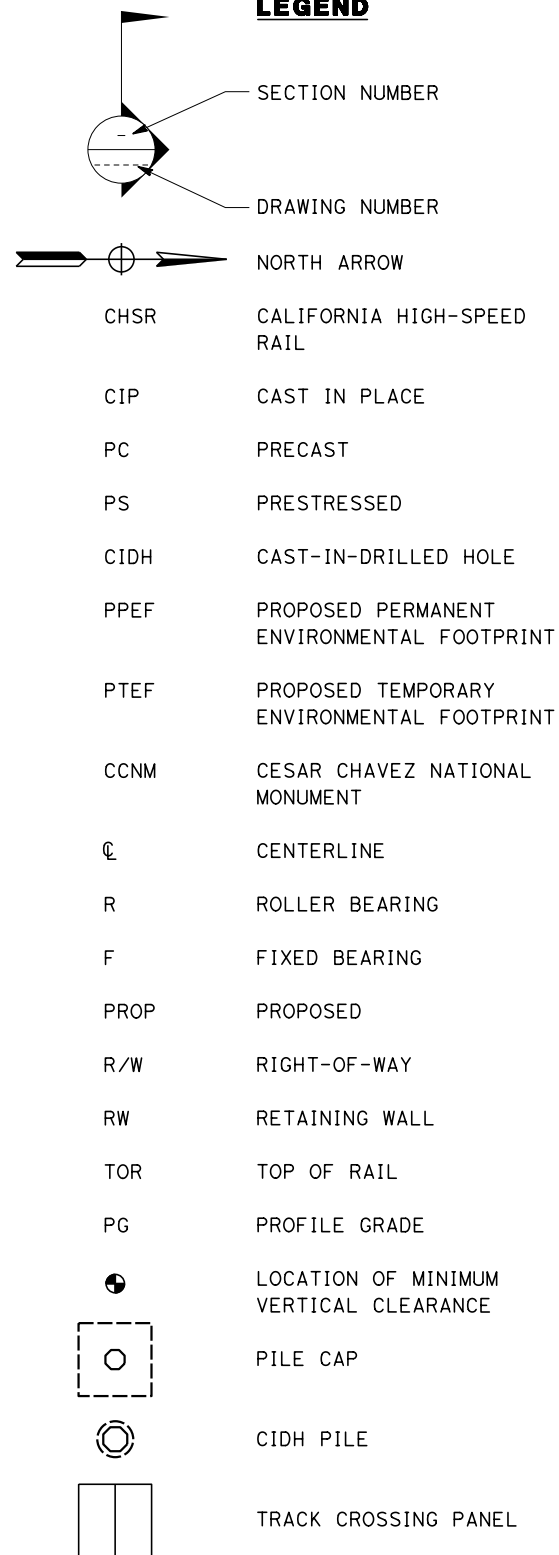
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1/11/2021

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**LEGEND**



- ① CONCRETE BARRIER INTRUSION PROTECTION
- ② PROPOSED RETAINING WALL
- RFND = REFINED
- OG ORIGINAL GROUND
- FG FINISHED GRADE
- ∨ TOP OR TOE OF SLOPE
- ▾ RETAINING WALL
- W-- WATERLINE

**GENERAL NOTES**

- A. UTILITY LOCATIONS TO BE DETERMINED.
- B. FOR DETAILS NOT NOTED ON PLAN AND ELEVATION SHEETS, SEE TYPICAL SECTION SHEETS FOR TRACK STRUCTURES.
- C. GRADE ELEVATIONS SHOWN ARE AT TOP OF RAIL.
- D. ALL COLUMNS ARE NORMAL TO THE STATION LINE UNLESS OTHERWISE SHOWN.
- E. REFER TO TRACK ALIGNMENT DRAWINGS FOR CURVE AND TANGENT INFORMATION.
- F. NOT ALL PILES ARE SHOWN.
- G. PILE SIZES AND LENGTHS TO BE DETERMINED.
- H. SUPERSTRUCTURE CONSISTS OF PRECAST CONCRETE GIRDERS UNLESS OTHERWISE NOTED.
- I. BEARINGS ARTICULATION FOR PC GIRDER SPANS ARE FIXED-ROLLER AT OPPOSING SPAN ENDS UNLESS OTHERWISE NOTED.
- J. REFER TO TRACK ALIGNMENT DRAWINGS FOR LIMITS OF RETAINING WALLS, UNLESS OTHERWISE SHOWN.
- K. PROPOSED 4" CHSR FIRE WATER PIPELINE ROUTES THROUGH STRUCTURES FROM STATION 18035+00 TO STA 19590+00.
- L. PROPOSED CHSR ELECTRIC POWER CONDUIT ROUTES THROUGH STRUCTURES FROM STATION 18035+00 TO STA 19590+00.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOOBIAN**

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**G. CAMPBELL**

DATE  
**01/29/2021**

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

REFINED CCNM DESIGN OPTION  
TRACK STRUCTURES  
GENERAL NOTES AND LEGEND

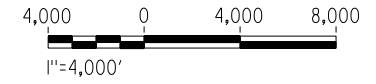
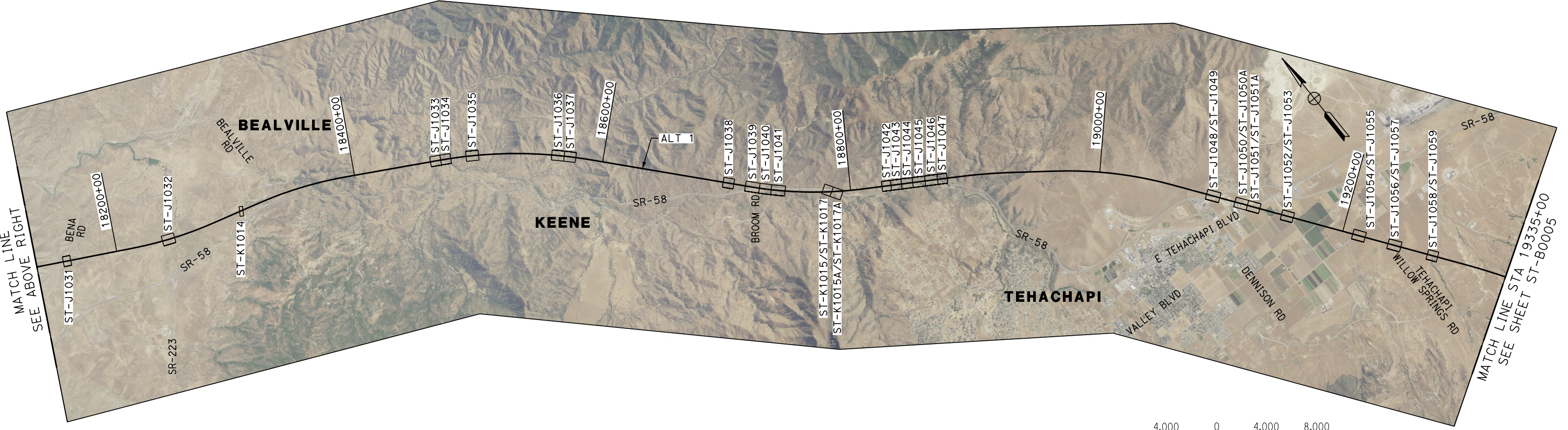
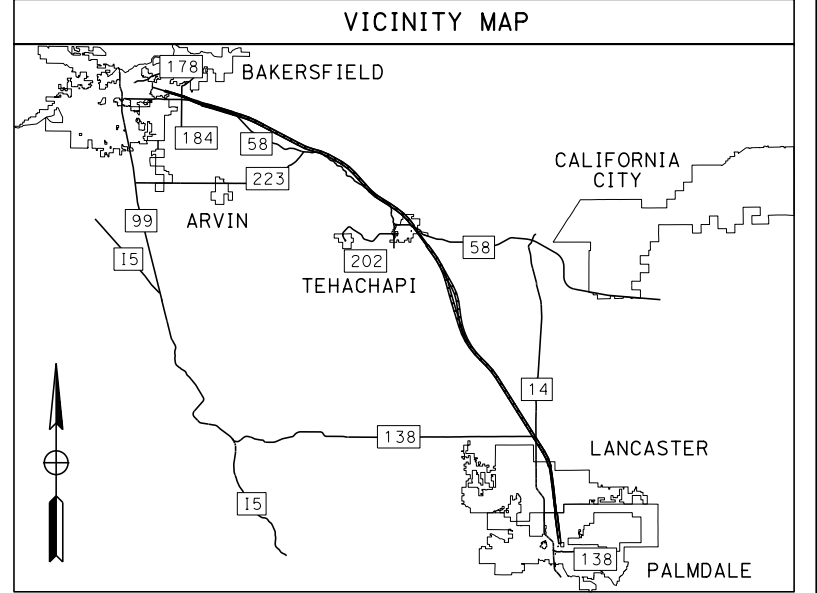
CONTRACT NO.  
HSR13-44

DRAWING NO.  
ST-B0101

SCALE  
NO SCALE

SHEET NO.  
759

# ALTERNATIVE 1



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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  
TRACK AND ROADWAY STRUCTURES  
KEY MAP  
SHEET 1 OF 2

CONTRACT NO.  
HSR13-44

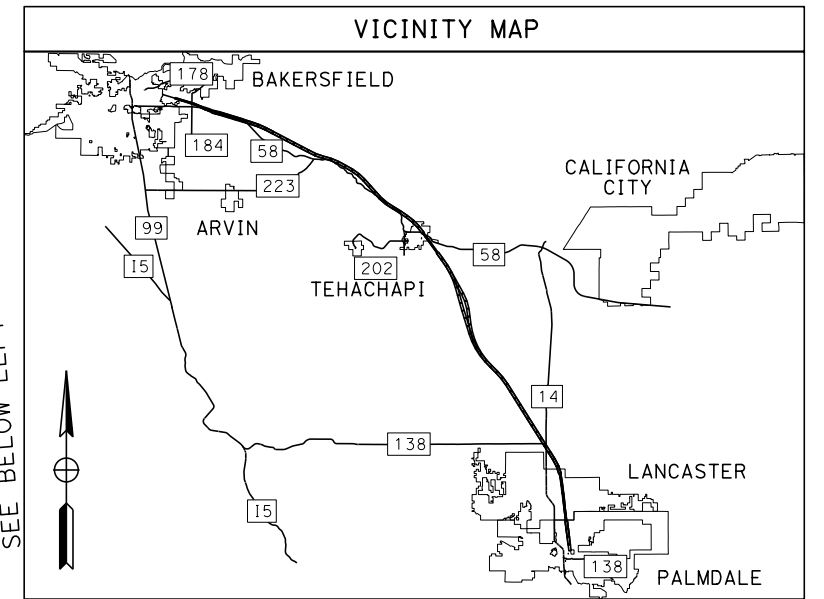
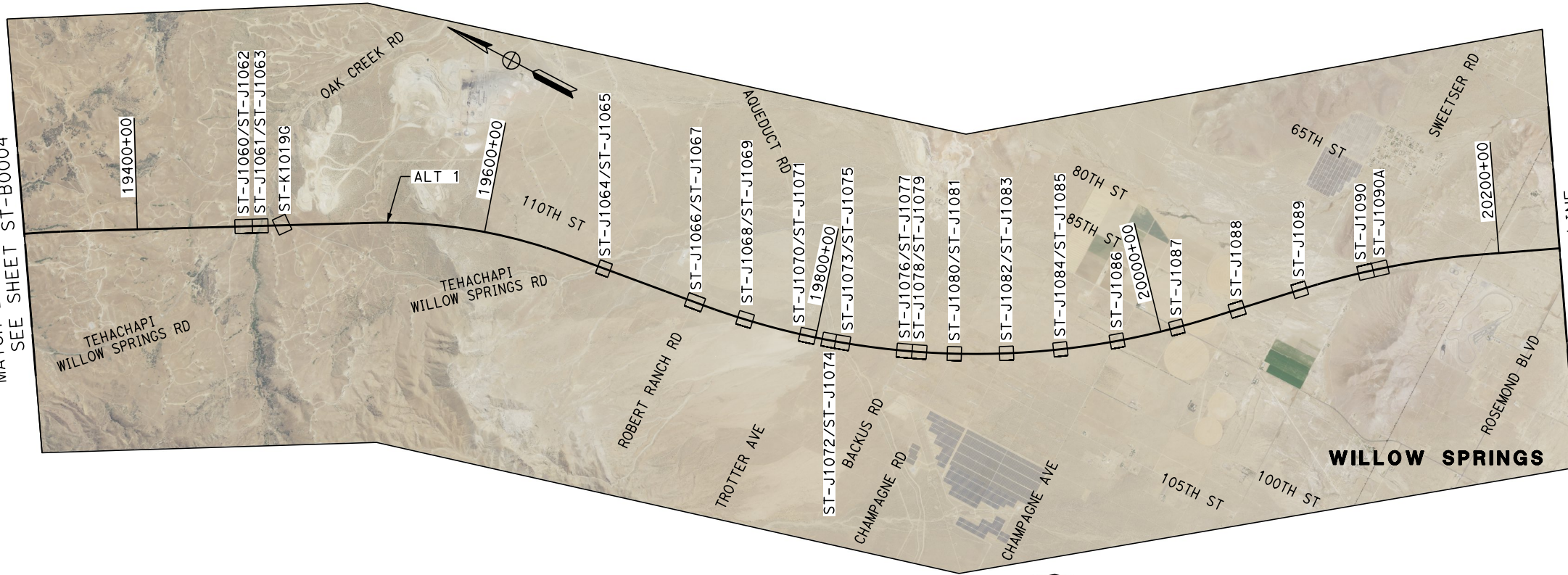
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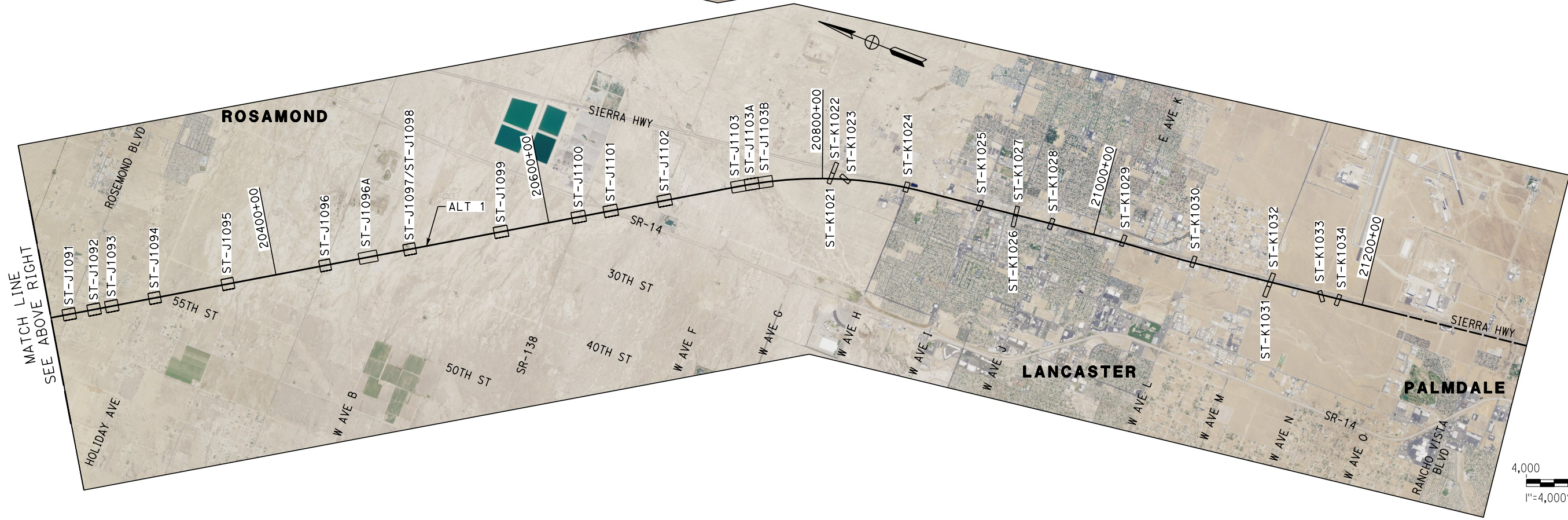
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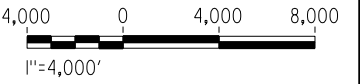
MATCH LINE STA 19335+00  
SEE SHEET ST-B0004



MATCH LINE  
SEE BELOW LEFT



MATCH LINE  
SEE ABOVE RIGHT



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-B0005

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**01/29/2021**

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

ALTERNATIVE 1  
TRACK AND ROADWAY STRUCTURES  
KEY MAP  
SHEET 2 OF 2

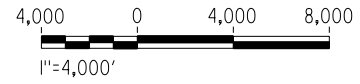
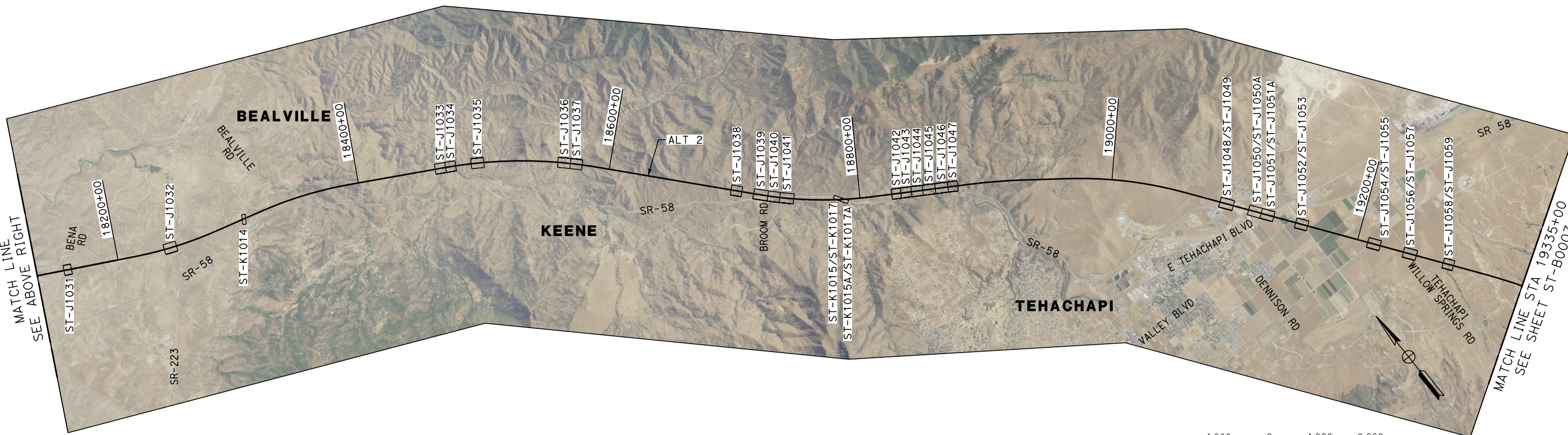
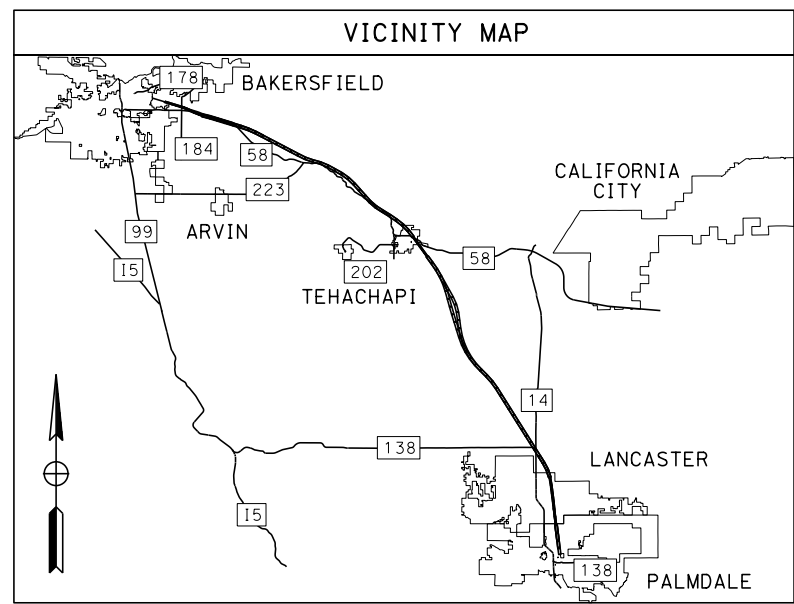
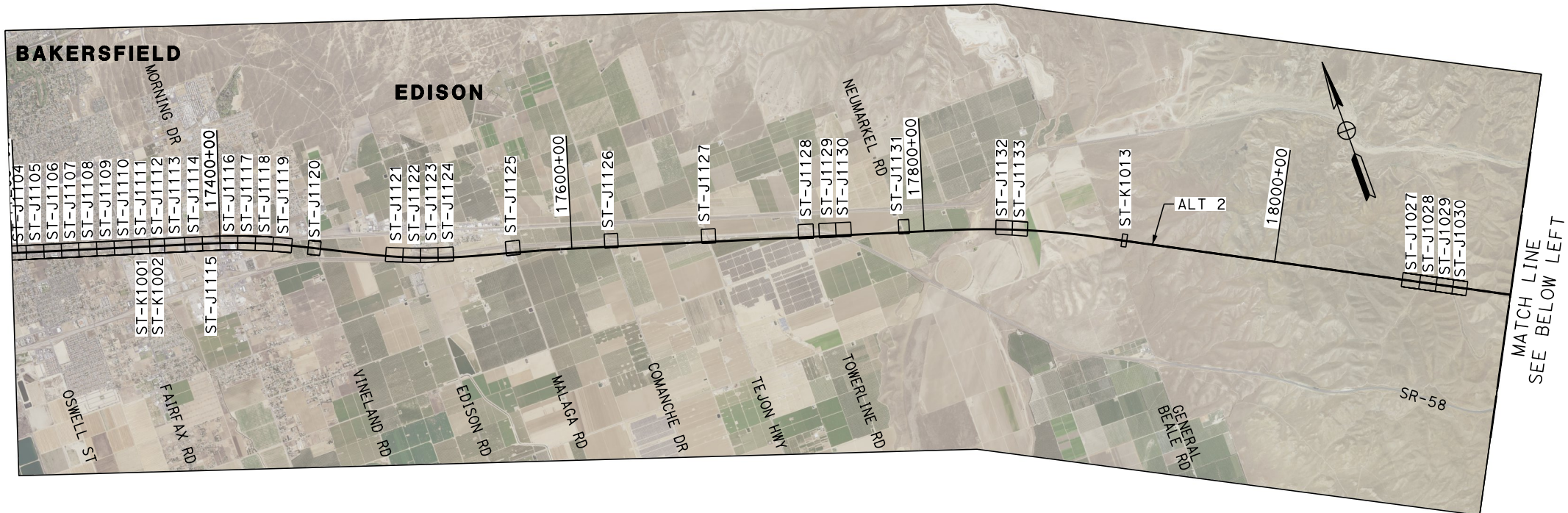
CONTRACT NO.  
HSR13-44

DRAWING NO.  
ST-B0005

SCALE  
AS SHOWN

SHEET NO.  
761

# ALTERNATIVE 2



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**R. GOLCHOBIAN**  
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**R. BARTON**  
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**G. CAMPBELL**  
 DATE  
**01/29/2021**

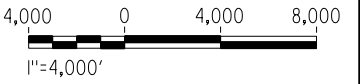
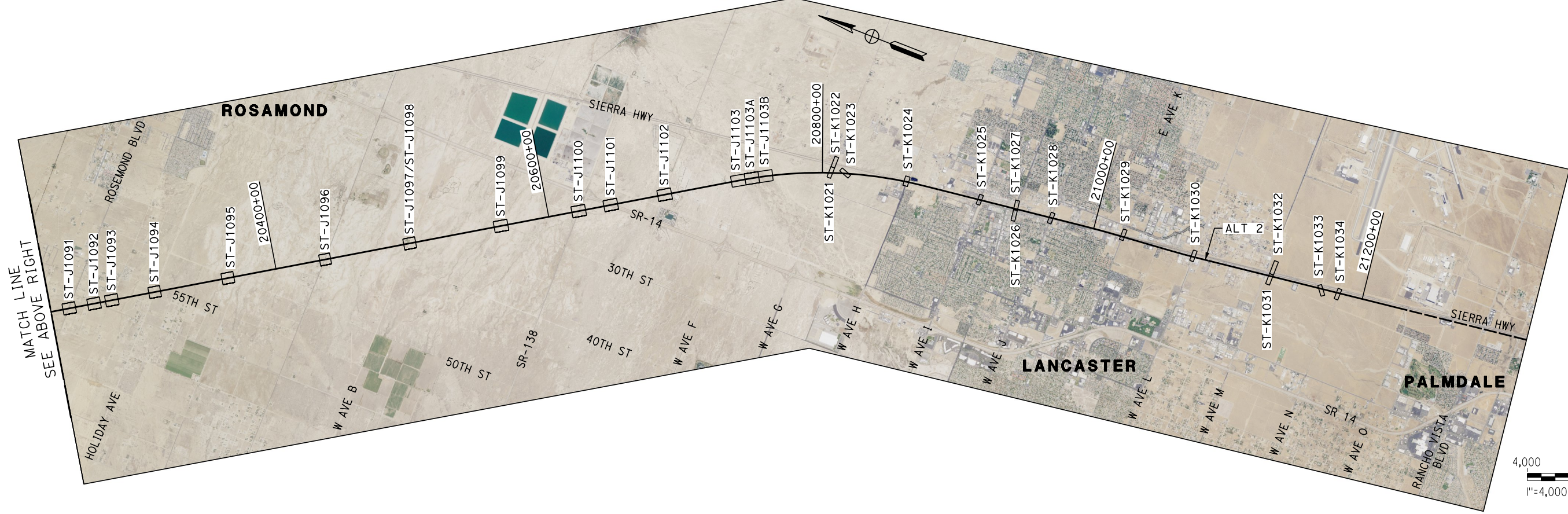
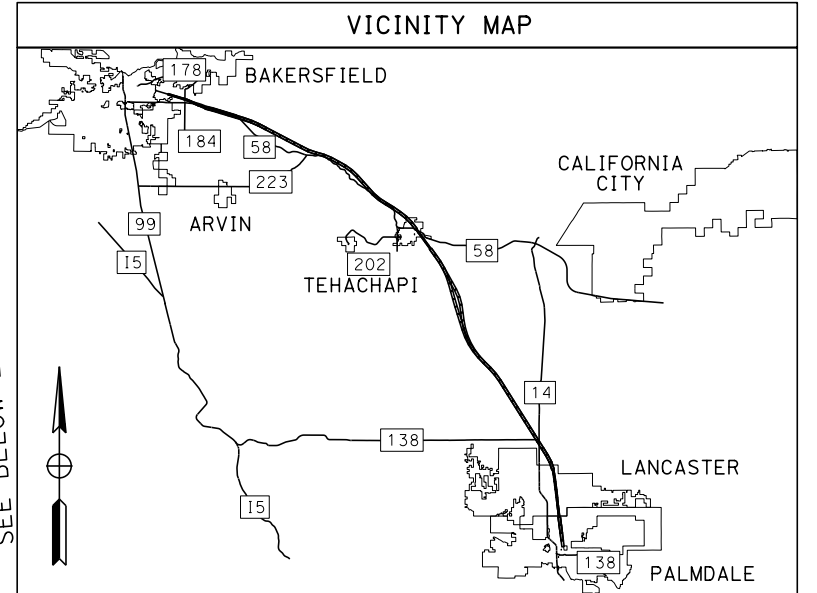
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**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 ALTERNATIVE 2  
 TRACK AND ROADWAY STRUCTURES  
 KEY MAP  
 SHEET 1 OF 2

CONTRACT NO.  
 HSR13-44  
 DRAWING NO.  
 ST-B0006  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 762

# ALTERNATIVE 2



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REV	DATE	BY	CHK	APP	DESCRIPTION

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**G. CAMPBELL**

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**01/29/2021**

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

ALTERNATIVE 2  
TRACK AND ROADWAY STRUCTURES  
KEY MAP  
SHEET 2 OF 2

CONTRACT NO.  
HSR13-44

DRAWING NO.  
ST-B0007

SCALE  
AS SHOWN

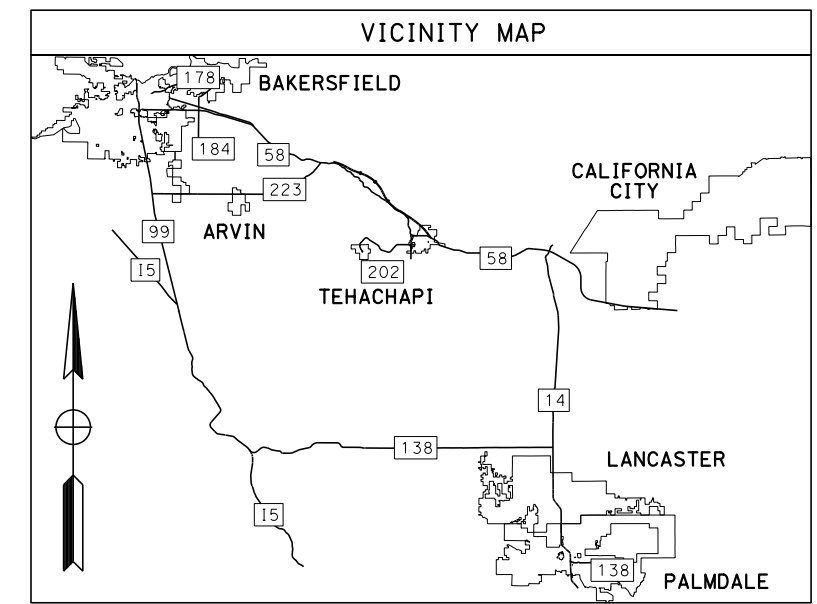
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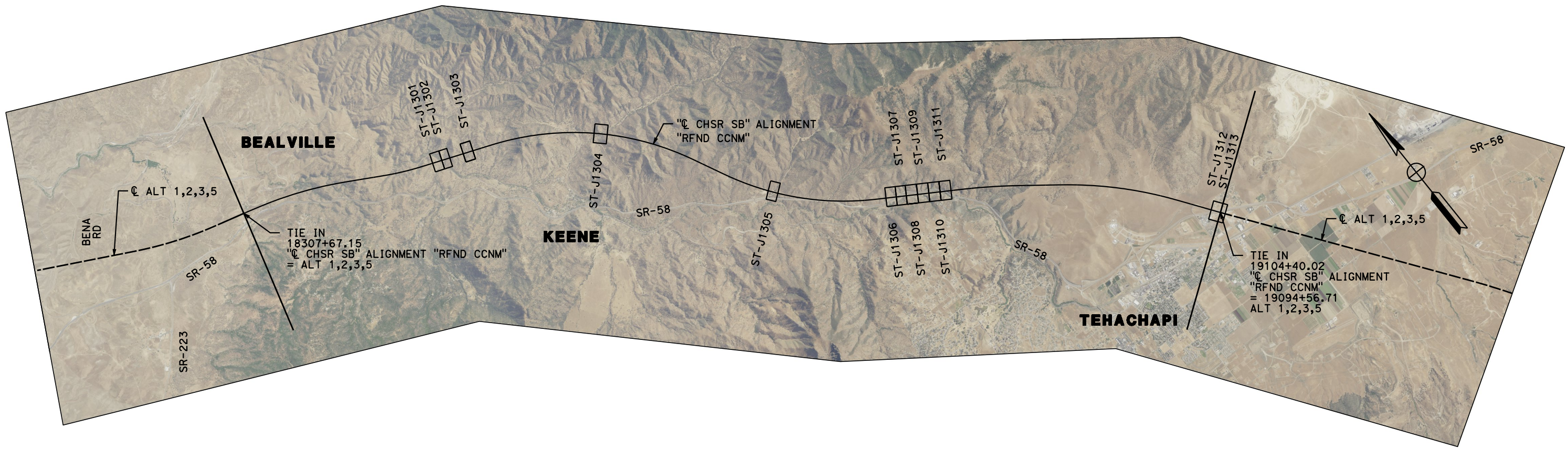
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1/11/2021

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### REFINED CCNM DESIGN OPTION



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**R. BARTON**

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**G. CAMPBELL**

DATE  
**01/29/2021**

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SUBMITTAL**

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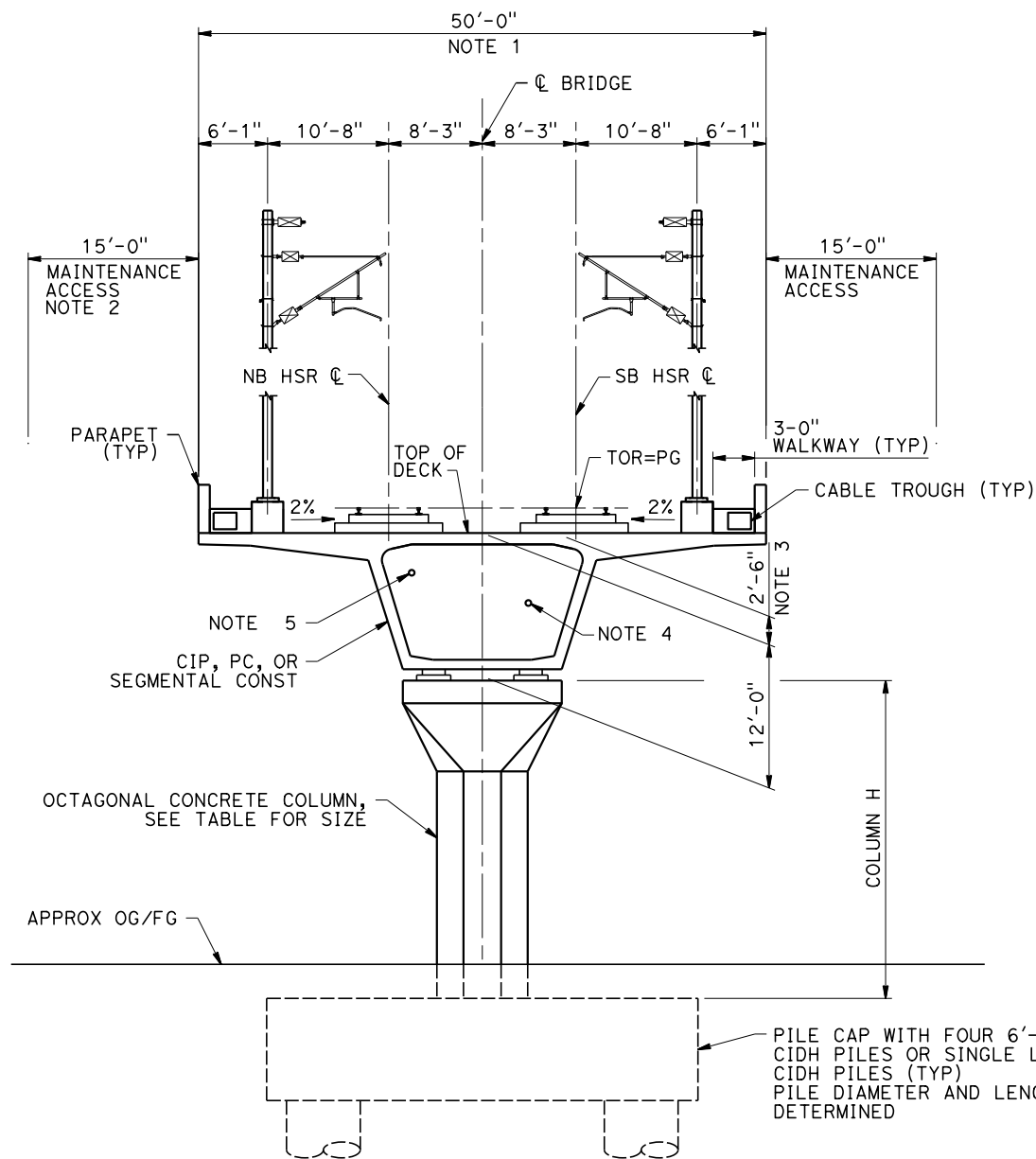
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 REFINED CCNM DESIGN OPTION  
 TRACK STRUCTURES  
 KEY MAP

CONTRACT NO.  
HSR13-44

DRAWING NO.  
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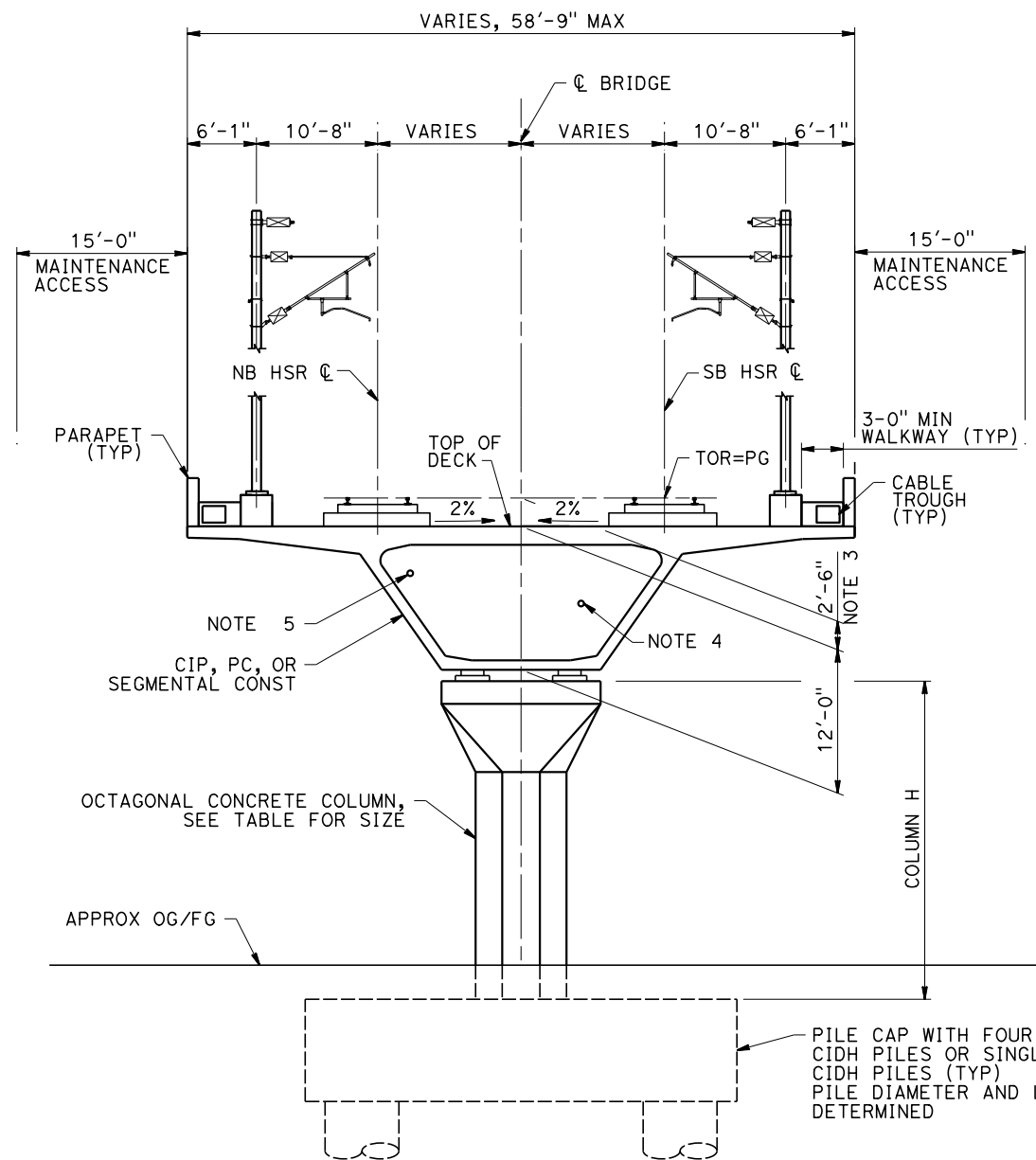
SCALE  
AS SHOWN

SHEET NO.  
764



**SECTION A**

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



**SECTION B**

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

COLUMN SIZE	
COLUMN H	SIZE
0-29'	8'
30-40'	10'
40-60'	12'
60-100'	16'
100-150'	18'
150-220'	20'

STA 17285+00	TO STA 17412+72.05	(ALT 1,3,5)	STA 17285+00	TO STA 17412+52.05	(ALT 2)
STA 17452+00	TO STA 17455+00	(ALT 1,2,3,5)	STA 17452+09	TO STA 17455+09	(ALT 2)
STA 17566+05	TO STA 17567+40	(ALT 1,3,5)	STA 17497+80	TO STA 17530+70	(ALT 2)
STA 20081+30	TO STA 20086+60	(ALT 1,2,3,5)	STA 17565+60	TO STA 17568+60	(ALT 2)
STA 20118+10	TO STA 20133+70	(ALT 1,2,3,5)	STA 17744+35	TO STA 17757+00	(ALT 2)
STA 20278+35	TO STA 20281+35	(ALT 1,2,3,5)	STA 20735+35	TO STA 20761+65	(ALT 5)
STA 20361+73	TO STA 20367+57	(ALT 1,2,3,5)	STA 20934+44.74	TO STA 20935+52.74	(ALT 5)
STA 20462+35	TO STA 20473+00	(ALT 1,2,3,5)			
STA 20496+96	TO STA 20499+36	(ALT 1,2,3,5)			
STA 20558+82	TO STA 20568+62	(ALT 1,2,3,5)			
STA 20619+77	TO STA 20623+77	(ALT 1,2,3,5)			
STA 20641+00	TO STA 20649+80	(ALT 1,2,3,5)			
STA 20682+97	TO STA 20686+37	(ALT 1,2,3,5)			
STA 20735+35	TO STA 20761+65	(ALT 1,2,3)			
STA 20914+80.25	TO STA 20915+85.25	(ALT 1,2,3)			
STA 20934+90.86	TO STA 209935+98.90	(ALT 1,2,3)			

STA 17787+30	TO STA 17788+70	(ALT 1,3,5)
STA 17841+15	TO STA 17856+15	(ALT 1,3,5)
STA 18076+71	TO STA 18106+61	(ALT 1,2,3,5)
STA 18158+34	TO STA 18160+04	(ALT 1,2,3,5)
STA 18239+45	TO STA 18245+25	(ALT 1,2,3,5)
STA 18463+56	TO STA 18475+16	(ALT 1,2,3,5)
STA 18494+23	TO STA 18497+43	(ALT 1,2,3,5)
STA 18561+10	TO STA 18575+70	(ALT 1,2,3,5)
STA 18700+32	TO STA 18703+52	(ALT 1,2,3,5)
STA 18717+05	TO STA 18746+75	(ALT 1,2,3,5)
STA 18828+25	TO STA 18874+85	(ALT 1,2,3,5)
STA 17842+85	TO STA 17855+65	(ALT 2)

- NOTES:
- 50'-8" AT TEHACHAPI WILLOW SPRINGS ROAD OVERHEAD-5 (ALT 3).
  - NOT AVAILABLE ON EDISON HIGHWAY.
  - STRUCTURES SHORTER THAN 1000 FEET SUPPORT BALLASTED TRACKS. THE DISTANCE BETWEEN TOP OF RAIL AND TOP OF DECK IN BALLASTED TRACK STRUCTURES WILL BE SLIGHTLY HIGHER AND BETWEEN 2'-6" AND 3'-0".
  - PROPOSED 4" CHSR WATERLINE FROM STATION 18035+00 TO 19590+00.
  - PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.

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1/7/2021 3:06:30 PM yihong.wang@tylin.com

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**R. GOLCHOBIAN**

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**Y. WANG**

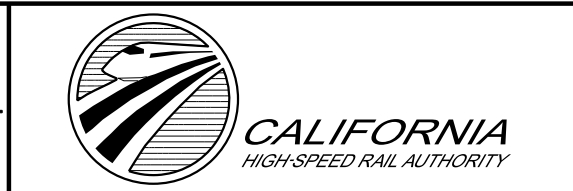
CHECKED BY  
**R. BARTON**

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**G. CAMPBELL**

DATE  
**01/29/2021**

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**PEPD**  
**SUBMITTAL**

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

GENERAL  
TYPICAL SECTIONS  
SHEET 1 OF 11

CONTRACT NO.  
HSR13-44

DRAWING NO.  
ST-B3001

SCALE  
AS SHOWN

SHEET NO.  
765

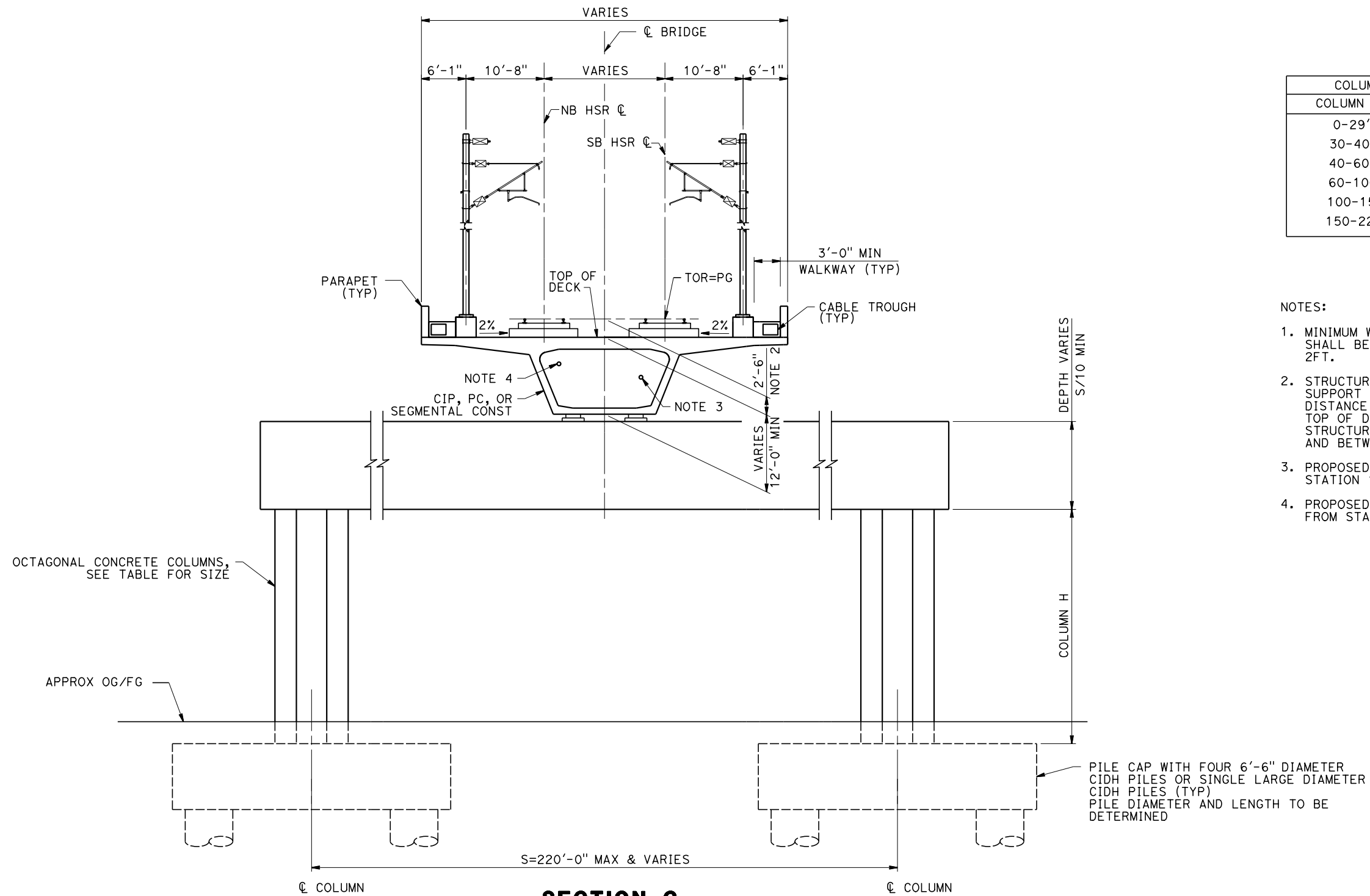


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1/7/2021

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COLUMN SIZE	
COLUMN H	SIZE
0-29'	8'
30-40'	10'
40-60'	12'
60-100'	16'
100-150'	18'
150-220'	20'

- NOTES:
1. MINIMUM WIDTH OF STRADDLE BENT SHALL BE EQUAL TO COLUMN SIZE PLUS 2FT.
  2. STRUCTURES SHORTER THAN 1000 FEET SUPPORT BALLASTED TRACKS. THE DISTANCE BETWEEN TOP OF RAIL AND TOP OF DECK IN BALLASTED TRACK STRUCTURES WILL BE SLIGHTLY HIGHER AND BETWEEN 2'-6" AND 3'-0".
  3. PROPOSED 4" CHSR WATERLINE FROM STATION 18035+00 TO 19590+00.
  4. PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.

**SECTION C**  
 SCALE: 1 1/2"=1'-0"  
 STA 17402+02.05 TO STA 17406+42.05 (ALT 1,3,5)  
 STA 18726+05 TO STA 18734+75 (ALT 1,2,3,5)  
 STA 18831+85 TO STA 18834+85 (ALT 1,2,3,5)  
 STA 18868+85 TO STA 18871+75 (ALT 1,2,3,5)  
 STA 17401+82.05 TO STA 17407+02.05 (ALT 2)  
 STA 17505+80 TO STA 17525+00 (ALT 2)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
 DRAWN BY  
**Y. WANG**  
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**R. BARTON**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

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



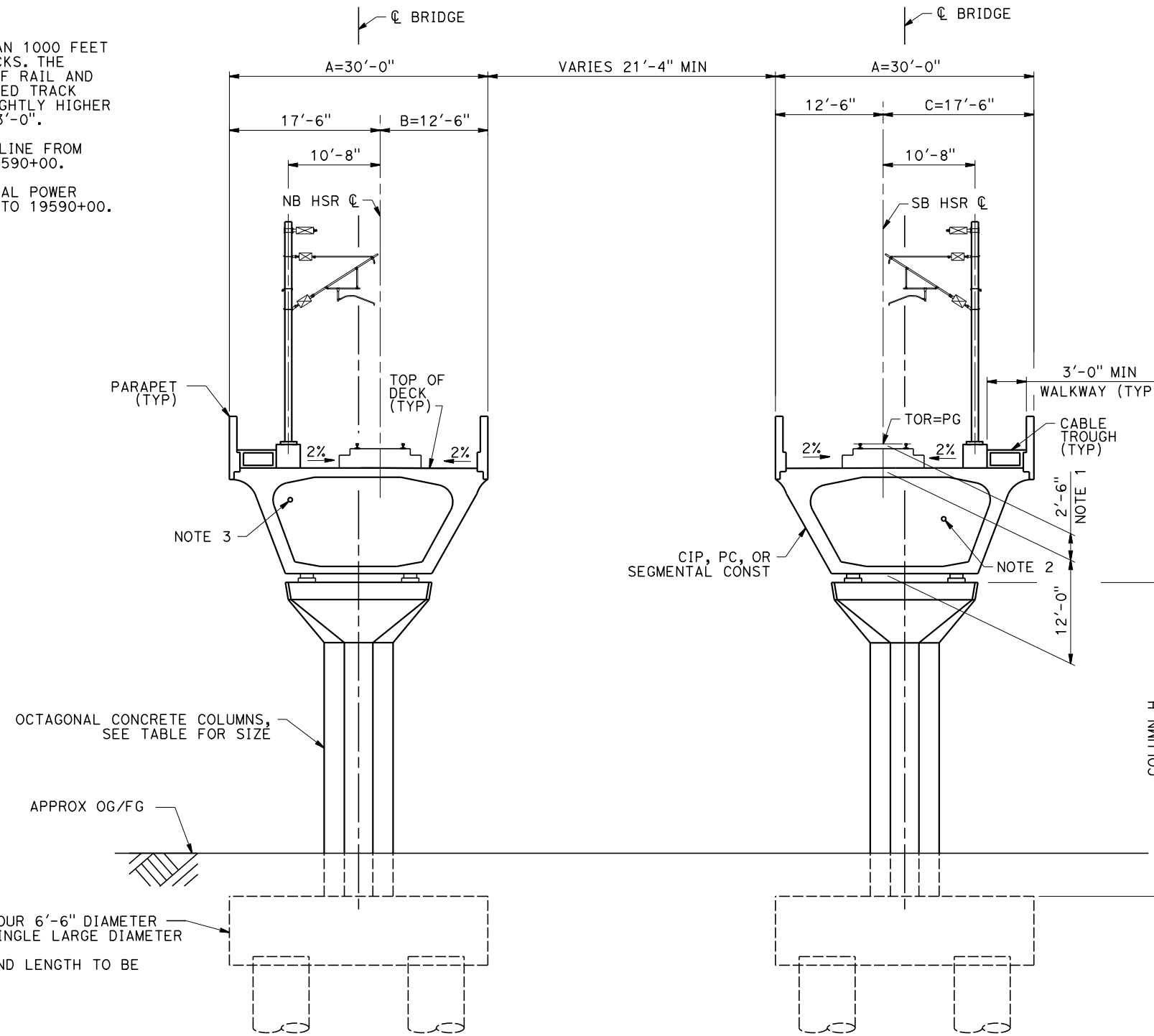
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
 BAKERSFIELD TO PALMDALE**  
 GENERAL  
 TYPICAL SECTIONS  
 SHEET 2 OF 11

CONTRACT NO.  
HSR13-44  
 DRAWING NO.  
ST-B3002  
 SCALE  
AS SHOWN  
 SHEET NO.  
766

NOTES:

- STRUCTURES SHORTER THAN 1000 FEET SUPPORT BALLASTED TRACKS. THE DISTANCE BETWEEN TOP OF RAIL AND TOP OF DECK IN BALLASTED TRACK STRUCTURES WILL BE SLIGHTLY HIGHER AND BETWEEN 2'-6" AND 3'-0".
- PROPOSED 4" CHSR WATERLINE FROM STATION 18035+00 TO 19590+00.
- PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.

COLUMN SIZE	
COLUMN H	SIZE
0-29'	8'
30-40'	10'
40-60'	12'
60-100'	16'
100-150'	18'
150-220'	20'



**SECTION D**  
SCALE: 1/2"=1'-0"

STA 19066+32	TO	STA 19068+32	NB (ALT 1,2,3,5)
STA 19066+05	TO	STA 19068+05	SB (ALT 1,2,3,5)
STA 19089+39	TO	STA 19097+55	NB (ALT 1,2,3,5)
STA 19087+82	TO	STA 19097+24	SB (ALT 1,2,3,5)
STA 19112+37	TO	STA 19129+92	NB (ALT 1,2,3,5)
STA 19111+50	TO	STA 19129+60	SB (ALT 1,2,3,5)
STA 19151+15	TO	STA 19157+55	NB (ALT 1,2,3,5)
STA 19150+86	TO	STA 19157+26	SB (ALT 1,2,3,5)
STA 19458+20	TO	STA 19473+80	NB (ALT 1,2,5)
STA 19458+00	TO	STA 19473+50	SB (ALT 1,2,5)
STA 19727+00	TO	STA 19729+40	NB (ALT 1,2,5)
STA 19726+37	TO	STA 19728+77	SB (ALT 1,2,5)
STA 19758+00	TO	STA 19759+40	NB (ALT 1,2,5)
STA 19757+41	TO	STA 19758+81	SB (ALT 1,2,5)
STA 19806+35	TO	STA 19818+85	NB (ALT 1,2,5)
STA 19805+90	TO	STA 19818+40	SB (ALT 1,2,5)
STA 19858+57	TO	STA 19861+57	NB (ALT 1,2,5)
STA 19858+10	TO	STA 19861+10	SB (ALT 1,2,5)
STA 19879+45	TO	STA 19883+75	NB (ALT 1,2,5)
STA 19878+99	TO	STA 19883+39	SB (ALT 1,2,5)
STA 19798+32	TO	STA 19801+52	NB (ALT 3)
STA 19798+13	TO	STA 19801+33	SB (ALT 3)
STA 19809+65	TO	STA 19820+75	NB (ALT 3)
STA 19809+75	TO	STA 19820+85	SB (ALT 3)
STA 19842+70	TO	STA 19845+70	NB (ALT 3)
STA 19842+55	TO	STA 19845+55	SB (ALT 3)
STA 19862+90	TO	STA 19865+90	NB (ALT 3)
STA 19862+80	TO	STA 19865+80	SB (ALT 3)
STA 19871+67	TO	STA 19877+47	NB (ALT 3)
STA 19871+54	TO	STA 19877+34	SB (ALT 3)

Projects\701206.00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-B3003

3:08:01 PM

1/7/2021

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



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

GENERAL  
TYPICAL SECTIONS  
SHEET 3 OF 11

CONTRACT NO.  
HSR13-44

DRAWING NO.  
ST-B3003

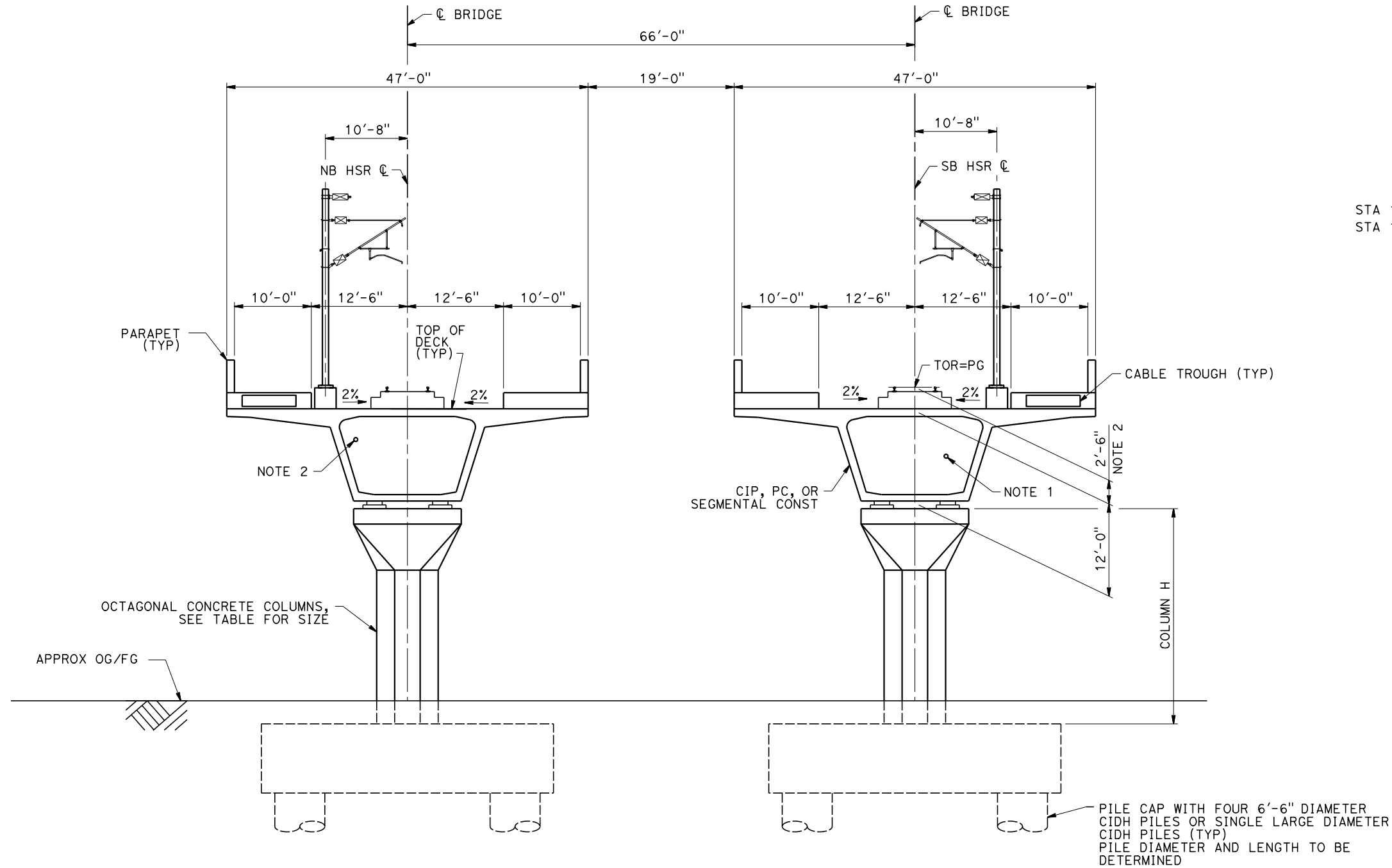
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AS SHOWN

SHEET NO.  
767

NOTES:

1. PROPOSED 4" CHSR WATERLINE FROM STATION 18035+00 TO 19590+00.
2. PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.

COLUMN SIZE	
COLUMN H	SIZE
0-29'	8'
30-40'	10'
40-60'	12'
60-100'	16'
100-150'	18'
150-220'	20'



STA 19271+95 TO STA 19276+25 NB (ALT 1,2,3,5)  
 STA 19271+45 TO STA 19275+85 SB (ALT 1,2,3,5)

**SECTION DA**

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

Projects\701206.00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-B3003A

3:17:28 PM

1/7/2021

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
 DRAWN BY  
**Y. WANG**  
 CHECKED BY  
**R. BARTON**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**

**TYLIN INTERNATIONAL**



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

GENERAL  
 TYPICAL SECTIONS  
 SHEET 4 OF 11

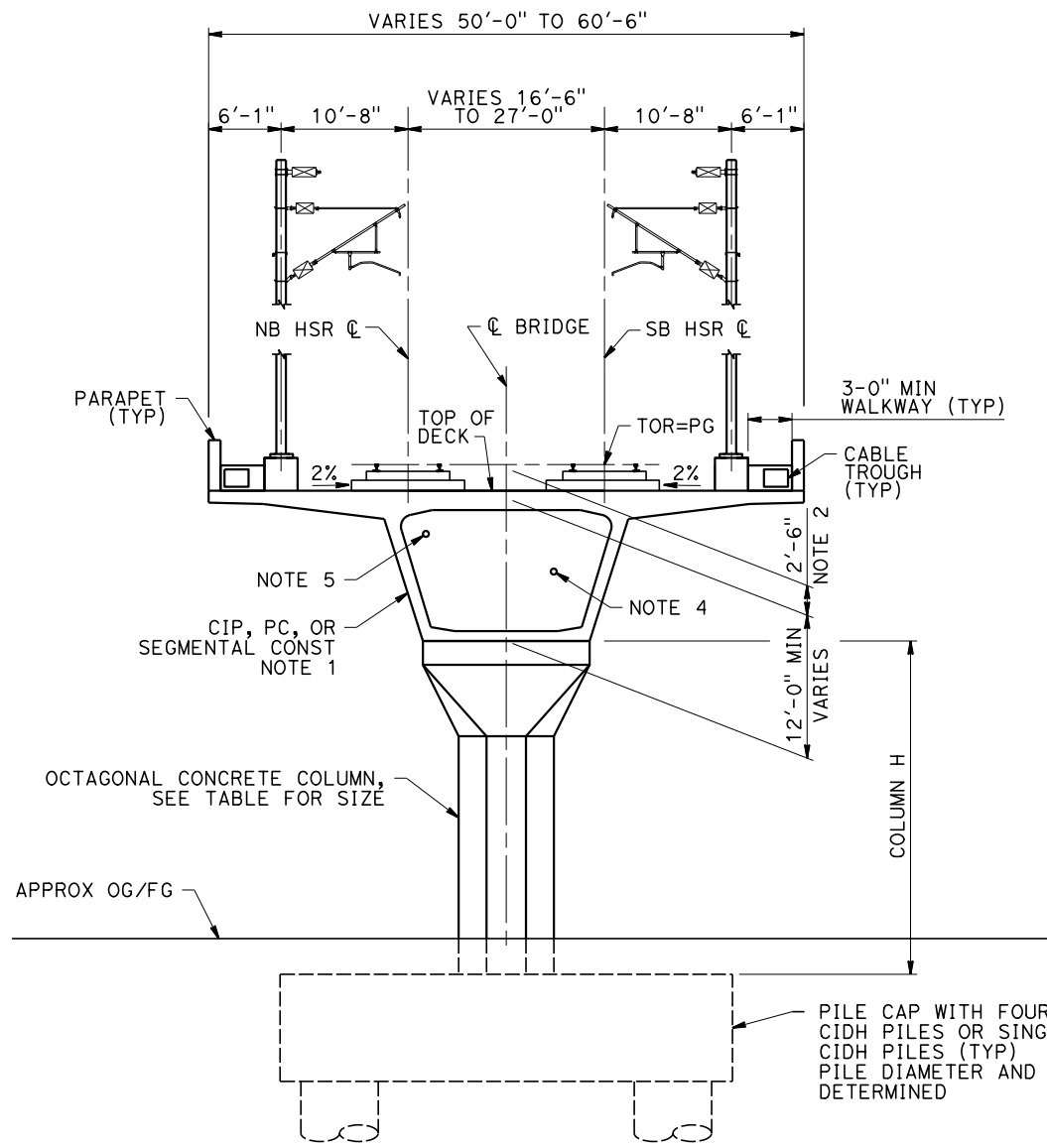
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 DRAWING NO.  
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 SCALE  
AS SHOWN  
 SHEET NO.  
768

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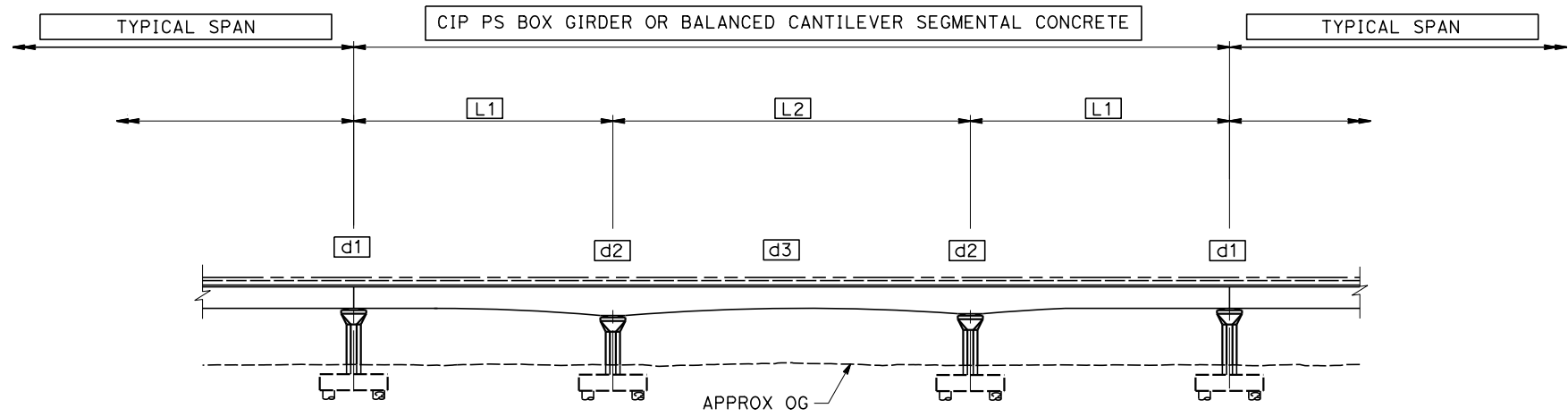
**SECTION E**  
SCALE: 1/2"=1'-0"

STA 17509+50 TO STA 17512+50 (ALT 1,3,5)	STA 20434+20 TO STA 20437+80 (ALT 1,2,3,5)
STA 17619+92 TO STA 17622+92 (ALT 1,3,5)	STA 20462+35 TO STA 20473+00 (ALT 1,2,3,5)
STA 17674+29 TO STA 17677+29 (ALT 1,3,5)	STA 20558+82 TO STA 20568+62 (ALT 1,2,3,5)
STA 17674+45 TO STA 17677+45 (ALT 1,3,5)	STA 20641+00 TO STA 20649+80 (ALT 1,2,3,5)
STA 17729+75 TO STA 17732+75 (ALT 1,3,5)	STA 17285+00 TO STA 17412+52.05 (ALT 2)
STA 18076+71 TO STA 18106+61 (ALT 1,2,3,5)	STA 17497+80 TO STA 17530+70 (ALT 2)
STA 18463+56 TO STA 18475+16 (ALT 1,2,3,5)	STA 17620+00 TO STA 17624+20 (ALT 2)
STA 18561+10 TO STA 18575+70 (ALT 1,2,3,5)	STA 17730+77 TO STA 17734+97 (ALT 2)
STA 18828+25 TO STA 18874+85 (ALT 1,2,3,5)	STA 17787+86 TO STA 17789+36 (ALT 2)
STA 20007+03 TO STA 20011+88 (ALT 1,2,3,5)	STA 17842+85 TO STA 17855+65 (ALT 2)
STA 20042+95 TO STA 20048+75 (ALT 1,2,3,5)	STA 20004+65 TO STA 20008+90 (ALT 3)
STA 20118+10 TO STA 20133+70 (ALT 1,2,3,5)	STA 20735+35 TO STA 20761+65 (ALT 5)
STA 20246+35 TO STA 20249+95 (ALT 1,2,3,5)	
STA 20264+90 TO STA 20269+60 (ALT 1,2,3,5)	
STA 20309+31 TO STA 20312+91 (ALT 1,2,3,5)	

COLUMN SIZE	
COLUMN H	SIZE
0-29'	8'
30-40'	10'
40-60'	12'
60-100'	16'
100-150'	18'
150-220'	20'

**NOTES:**

- GIRDER SIDE SLOPE VARIES DEPENDING ON STRUCTURE DEPTH AT SUPPORT.
- STRUCTURES SHORTER THAN 1000 FEET SUPPORT BALLASTED TRACKS. THE DISTANCE BETWEEN TOP OF RAIL AND TOP OF DECK IN BALLASTED TRACK STRUCTURES WILL BE SLIGHTLY HIGHER AND BETWEEN 2'-6" AND 3'-0".
- WHERE 4-SPAN ARRANGEMENTS ARE SHOWN, THERE ARE 2 CENTER SPANS AND 3 CENTER COLUMNS WITH STRUCTURE DEPTH EQUAL TO d2 ABOVE THE COLUMNS.
- PROPOSED 4" CHSR WATERLINE FROM STATION 18035+00 TO 19590+00.
- PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.



**BALANCED CANTILEVER SEGMENTAL**  
SCALE: 1/4"=1'-0"

- d1 = 12'-0"
- d2 = L2/12
- d3 = L2/20

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



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

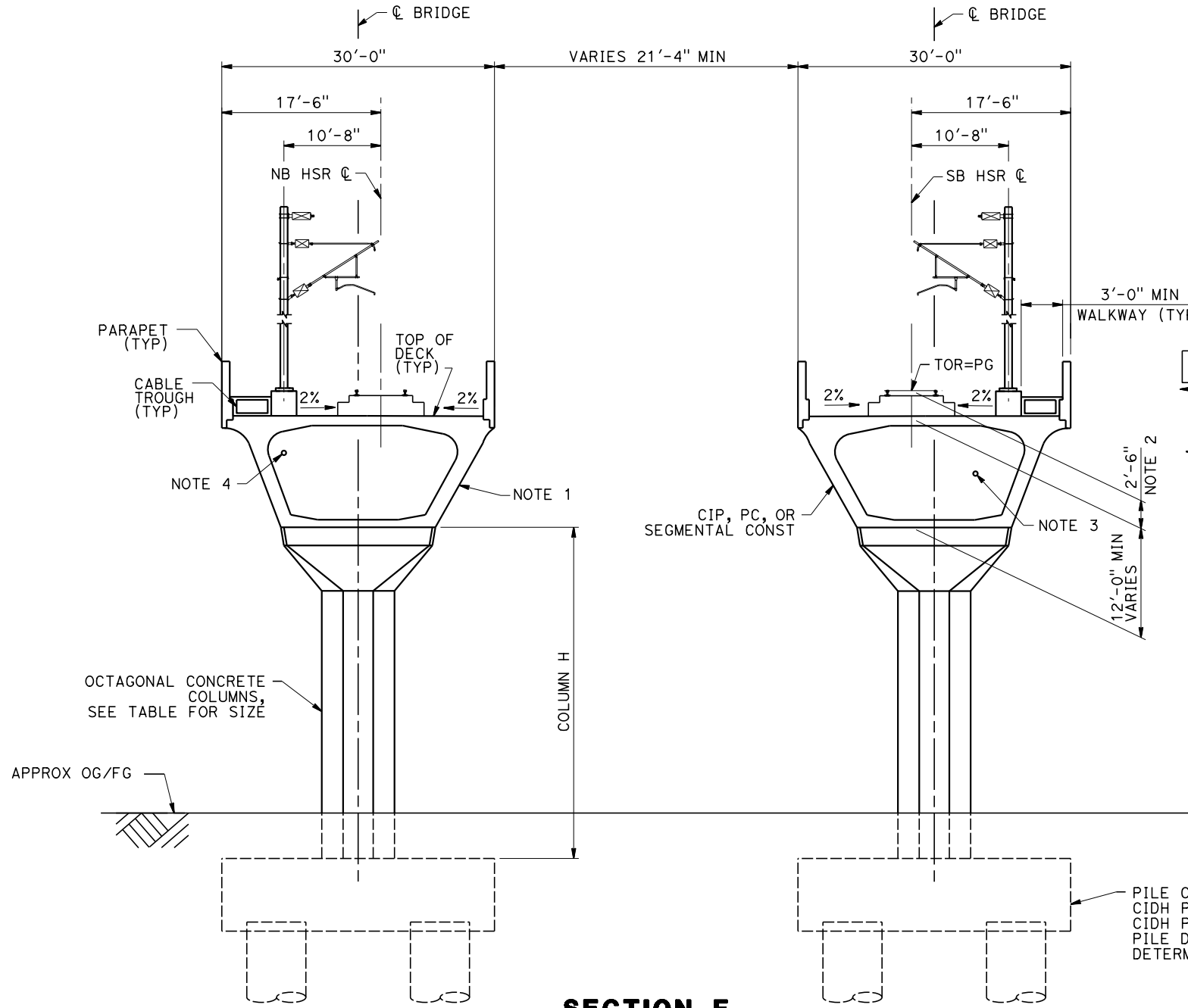
GENERAL  
TYPICAL SECTIONS  
SHEET 5 OF 11

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-B3004  
SCALE  
AS SHOWN  
SHEET NO.  
769

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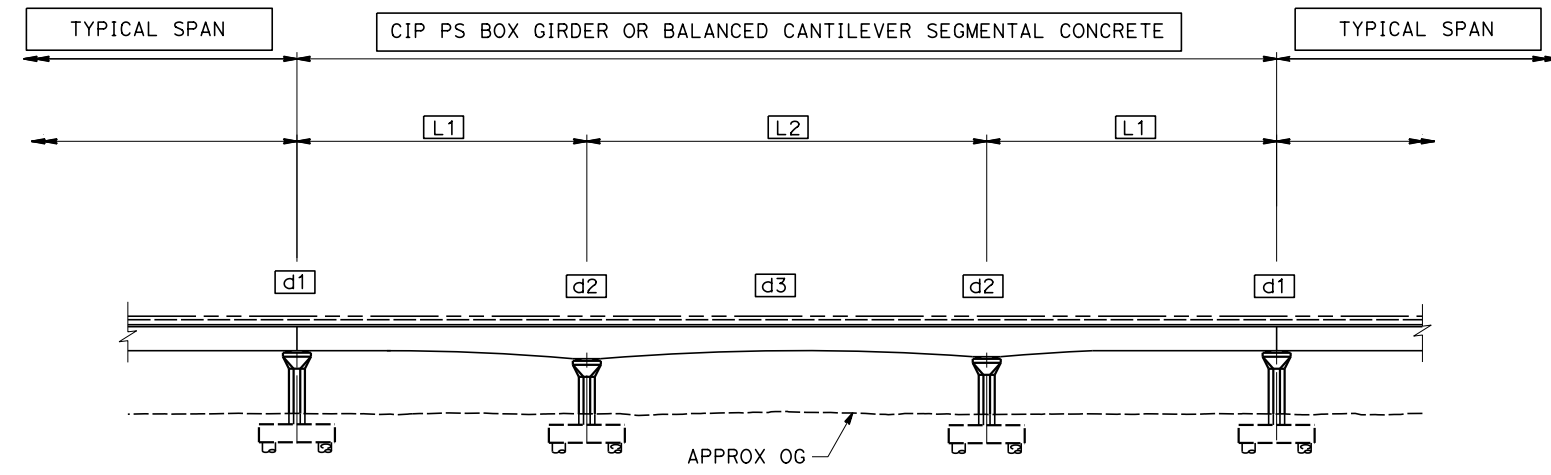
yihong.wang@tylin.com



**SECTION F**  
SCALE: 1/4"=1'-0"

COLUMN SIZE	
COLUMN H	SIZE
0-29'	8'
30-40'	10'
40-60'	12'
60-100'	16'
100-150'	18'
150-220'	20'

- NOTES:
- GIRDER SIDE SLOPE VARIES DEPENDING ON STRUCTURE DEPTH AT SUPPORT.
  - STRUCTURES SHORTER THAN 1000 FEET SUPPORT BALLASTED TRACKS. THE DISTANCE BETWEEN TOP OF RAIL AND TOP OF DECK IN BALLASTED TRACK STRUCTURES WILL BE SLIGHTLY HIGHER AND BETWEEN 2'-6" AND 3'-0".
  - PROPOSED 4" CHSR WATERLINE FROM STATION 18035+00 TO 19590+00.
  - PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.



**BALANCED CANTILEVER SEGMENTAL**  
SCALE: 1/4"=1'-0"

- d1 = 12'-0"
- d2 = L2/12
- d3 = L2/20

STA 19089+39 TO STA 19097+55 NB (ALT 1,2,3,5)	STA 19793+93 TO STA 19797+53 NB (ALT 1,2,5)
STA 19087+82 TO STA 19097+24 SB (ALT 1,2,3,5)	STA 19793+39 TO STA 19796+99 SB (ALT 1,2,5)
STA 19112+37 TO STA 19129+92 NB (ALT 1,2,3,5)	STA 19806+35 TO STA 19818+85 NB (ALT 1,2,5)
STA 19111+50 TO STA 19129+60 SB (ALT 1,2,3,5)	STA 19805+90 TO STA 19818+40 SB (ALT 1,2,5)
STA 19151+15 TO STA 19157+55 NB (ALT 1,2,3,5)	STA 19453+40 TO STA 19456+80 NB (ALT 3)
STA 19150+86 TO STA 19157+26 SB (ALT 1,2,3,5)	STA 19452+65 TO STA 19456+05 SB (ALT 3)
STA 19458+20 TO STA 19473+80 NB (ALT 1,2,5)	STA 19785+50 TO STA 19789+10 NB (ALT 3)
STA 19458+00 TO STA 19473+50 SB (ALT 1,2,5)	STA 19785+30 TO STA 19788+90 SB (ALT 3)
STA 19670+80 TO STA 19674+50 NB (ALT 1,2,5)	STA 19809+65 TO STA 19820+75 NB (ALT 3)
STA 19669+54 TO STA 19673+24 SB (ALT 1,2,5)	STA 19809+75 TO STA 19820+65 SB (ALT 3)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



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

GENERAL  
TYPICAL SECTIONS  
SHEET 6 OF 11

CONTRACT NO.  
HSR13-44

DRAWING NO.  
ST-B3005

SCALE  
AS SHOWN

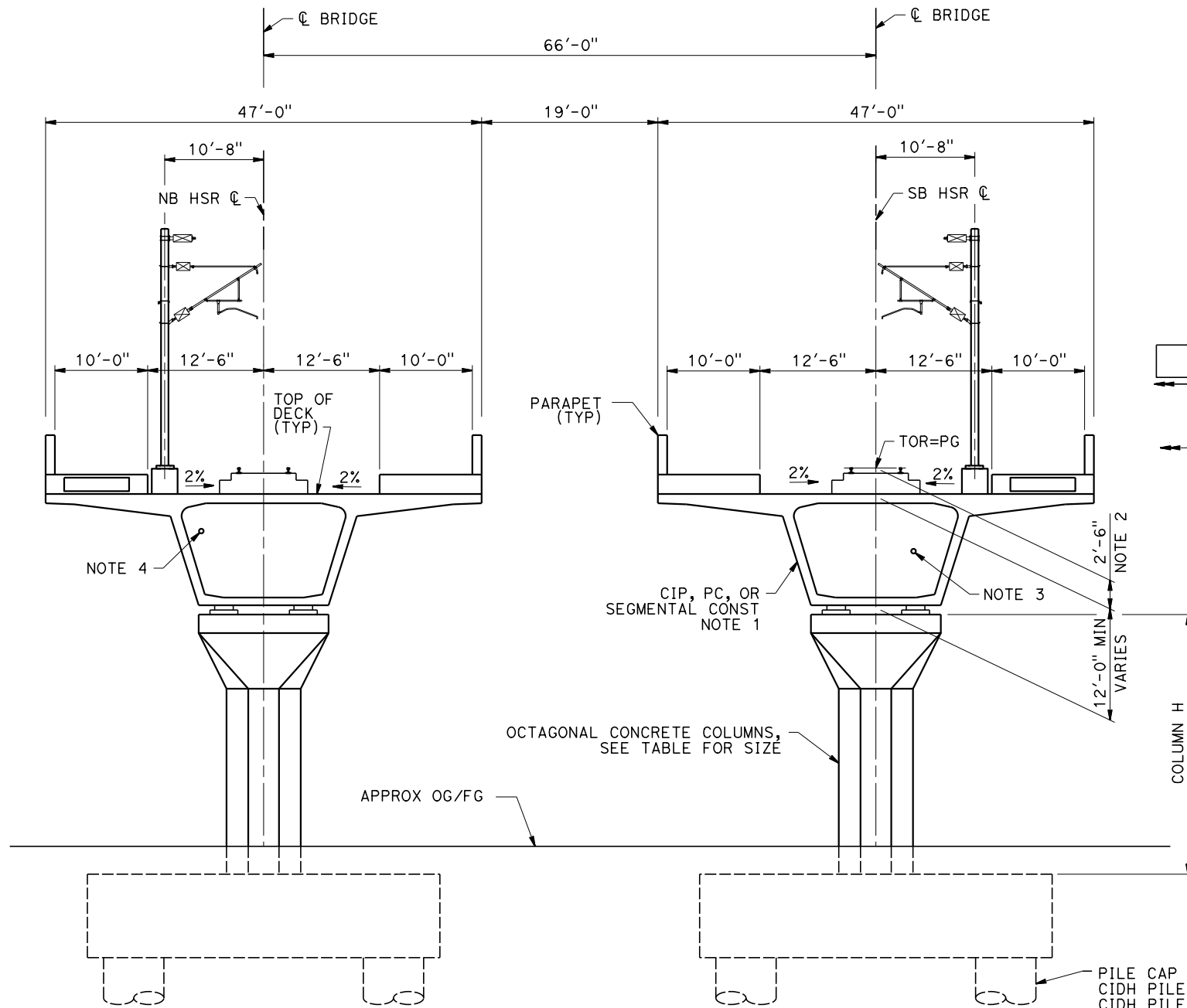
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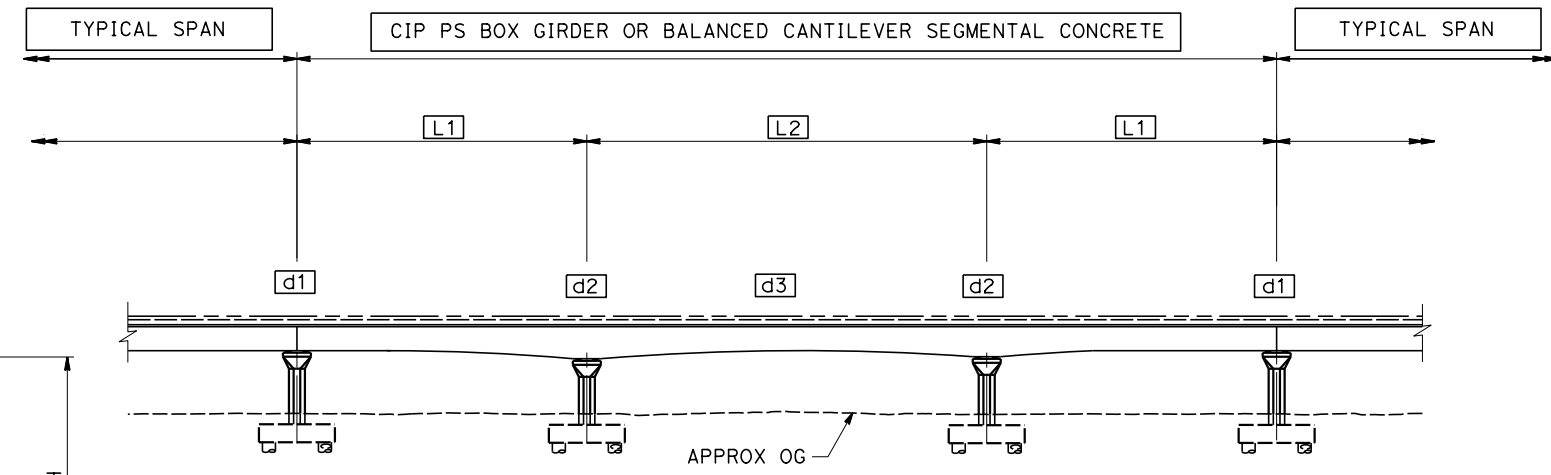
1/7/2021

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COLUMN SIZE	
COLUMN H	SIZE
0-29'	8'
30-40'	10'
40-60'	12'
60-100'	16'
100-150'	18'
150-220'	20'

- NOTES:
- GIRDER SIDE SLOPE VARIES DEPENDING ON STRUCTURE DEPTH AT SUPPORT.
  - STRUCTURES SHORTER THAN 1000 FEET SUPPORT BALLASTED TRACKS. THE DISTANCE BETWEEN TOP OF RAIL AND TOP OF DECK IN BALLASTED TRACK STRUCTURES WILL BE SLIGHTLY HIGHER AND BETWEEN 2'-6" AND 3'-0".
  - PROPOSED 4" CHSR WATERLINE FROM STATION 18035+00 TO 19590+00.
  - PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.



**BALANCED CANTILEVER SEGMENTAL**  
SCALE: 1/4"=1'-0"

- d1 = 12'-0"
- d2 = L2/12
- d3 = L2/20

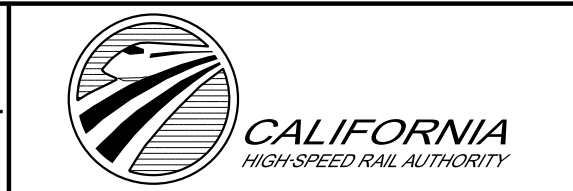
**SECTION FA**  
SCALE: 1/4"=1'-0"

STA 19466+10 TO STA 19471+05 NB (ALT 3)  
 STA 19465+95 TO STA 19470+80 SB (ALT 3)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
 DRAWN BY  
**Y. WANG**  
 CHECKED BY  
**R. BARTON**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

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



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 GENERAL  
 TYPICAL SECTIONS  
 SHEET 7 OF 11

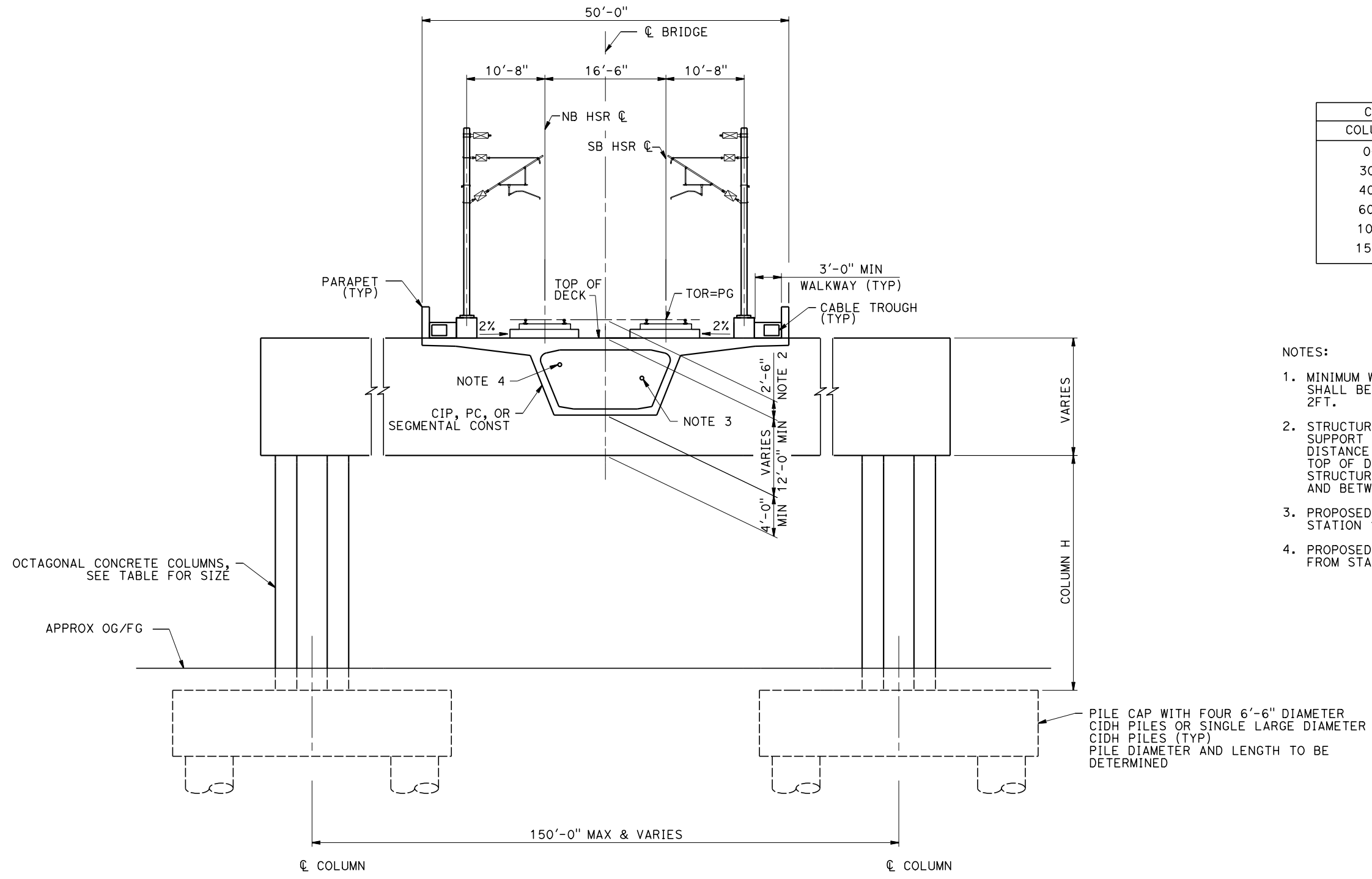
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HSR13-44  
 DRAWING NO.  
ST-B3005A  
 SCALE  
AS SHOWN  
 SHEET NO.  
771

Projects\701206.00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-B3006

3:07:42 PM

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COLUMN SIZE	
COLUMN H	SIZE
0-29'	8'
30-40'	10'
40-60'	12'
60-100'	16'
100-150'	18'
150-220'	20'

- NOTES:
1. MINIMUM WIDTH OF STRADDLE BENT SHALL BE EQUAL TO COLUMN SIZE PLUS 2FT.
  2. STRUCTURES SHORTER THAN 1000 FEET SUPPORT BALLASTED TRACKS. THE DISTANCE BETWEEN TOP OF RAIL AND TOP OF DECK IN BALLASTED TRACK STRUCTURES WILL BE SLIGHTLY HIGHER AND BETWEEN 2'-6" AND 3'-0".
  3. PROPOSED 4" CHSR WATERLINE FROM STATION 18035+00 TO 19590+00.
  4. PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.

**SECTION G**

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

STA 17748+80 TO STA 17753+60 (ALT 2)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

GENERAL  
TYPICAL SECTIONS  
SHEET 8 OF 11

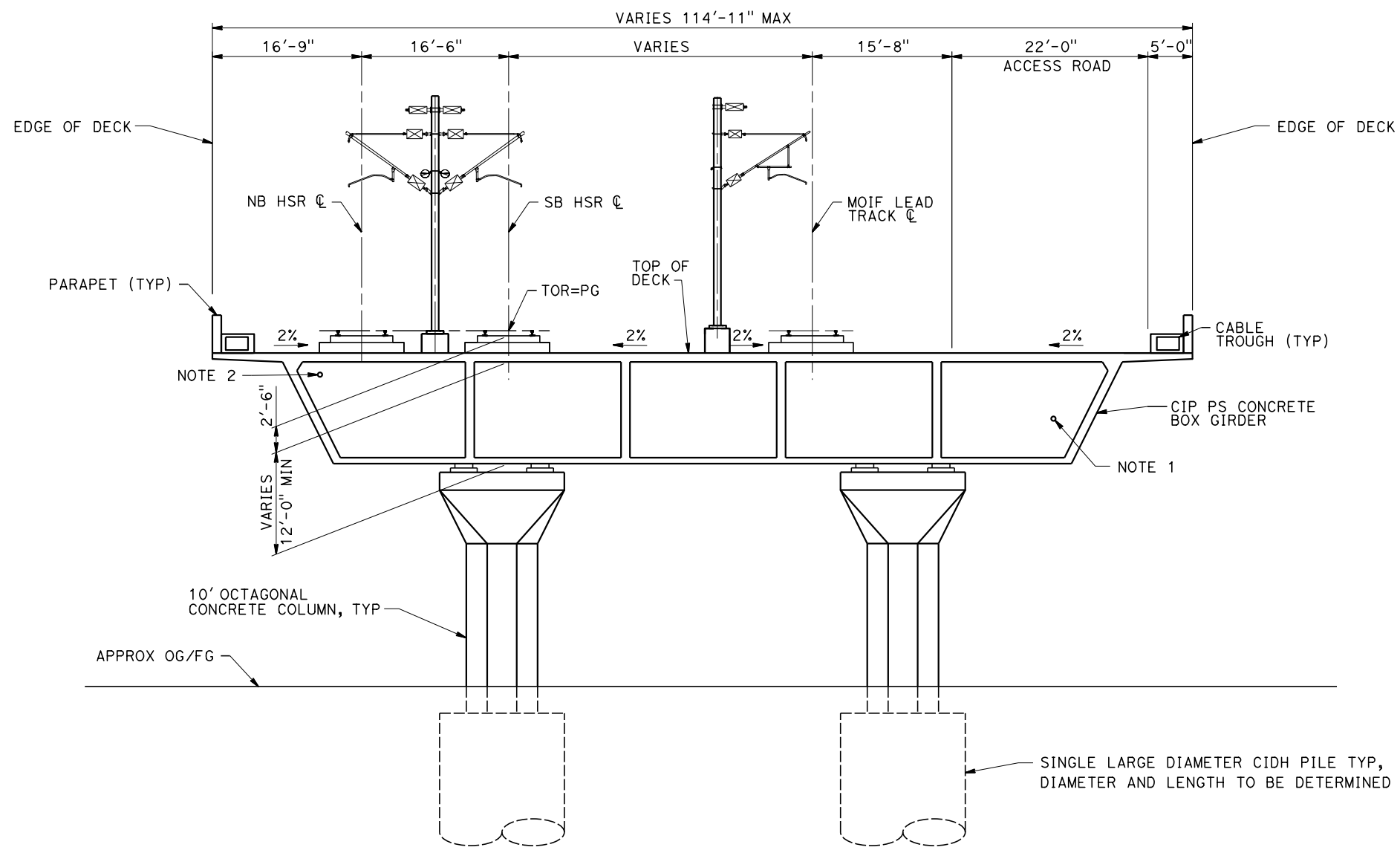
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SHEET NO.  
772

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1/7/2021

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- NOTES:
1. PROPOSED 4" CHSR WATERLINE FROM STATION 18035+00 TO 19590+00.
  2. PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.

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

STA 17675+79 TO STA 17679+49 (ALT 2)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

GENERAL  
TYPICAL SECTIONS  
SHEET 9 OF 11

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-B3008  
SCALE  
AS SHOWN  
SHEET NO.  
773

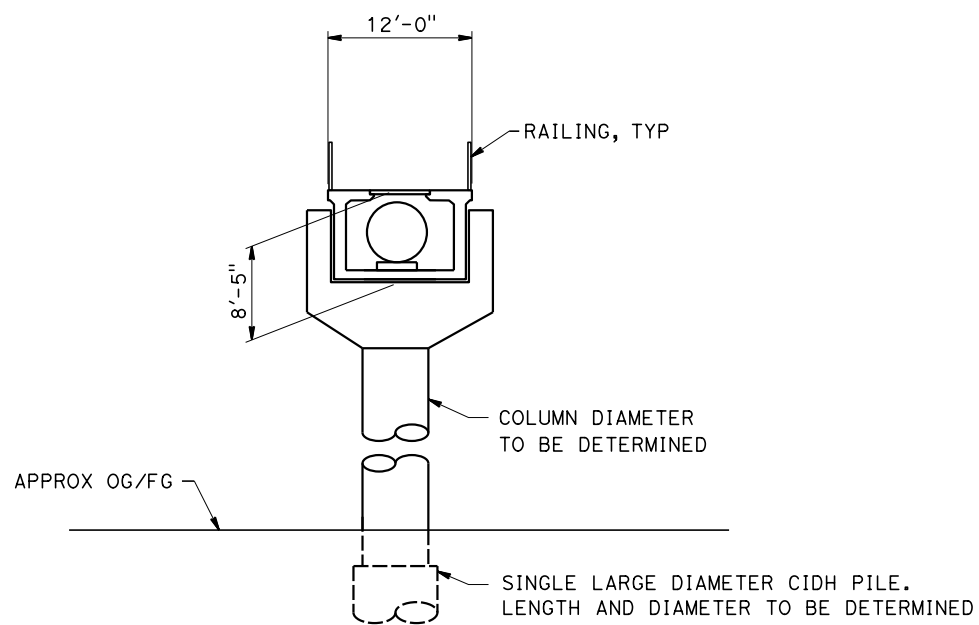


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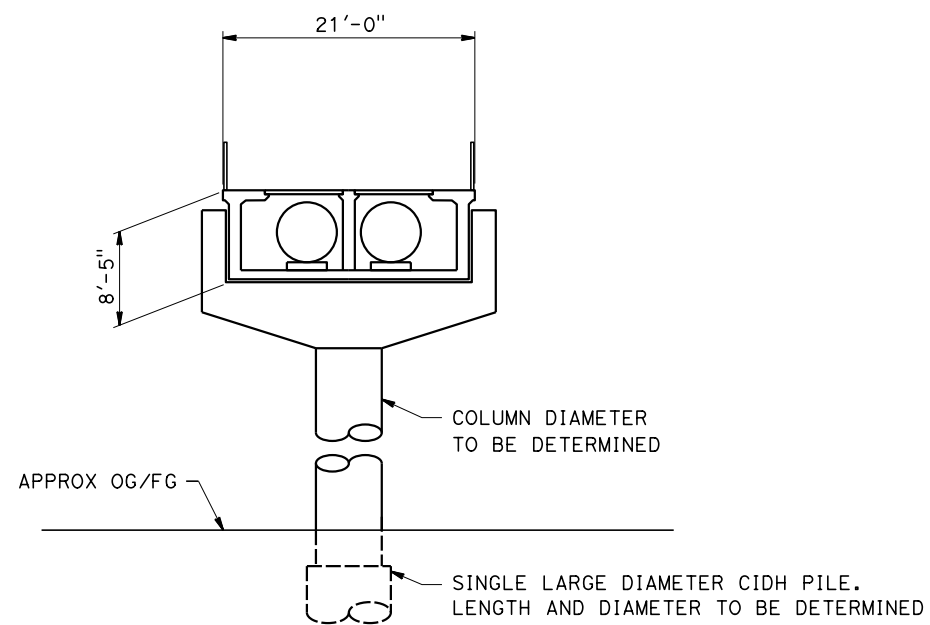
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**SECTION J**  
SCALE: 1 1/2"=1'-0"



**SECTION K**  
SCALE: 1 1/2"=1'-0"

**ELEVATED UTILITY CROSSINGS**

NOTE:  
FOR LOCATIONS OF CROSSINGS  
SEE GRADING AND DRAINAGE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

GENERAL  
TYPICAL SECTIONS  
SHEET 10 OF 11

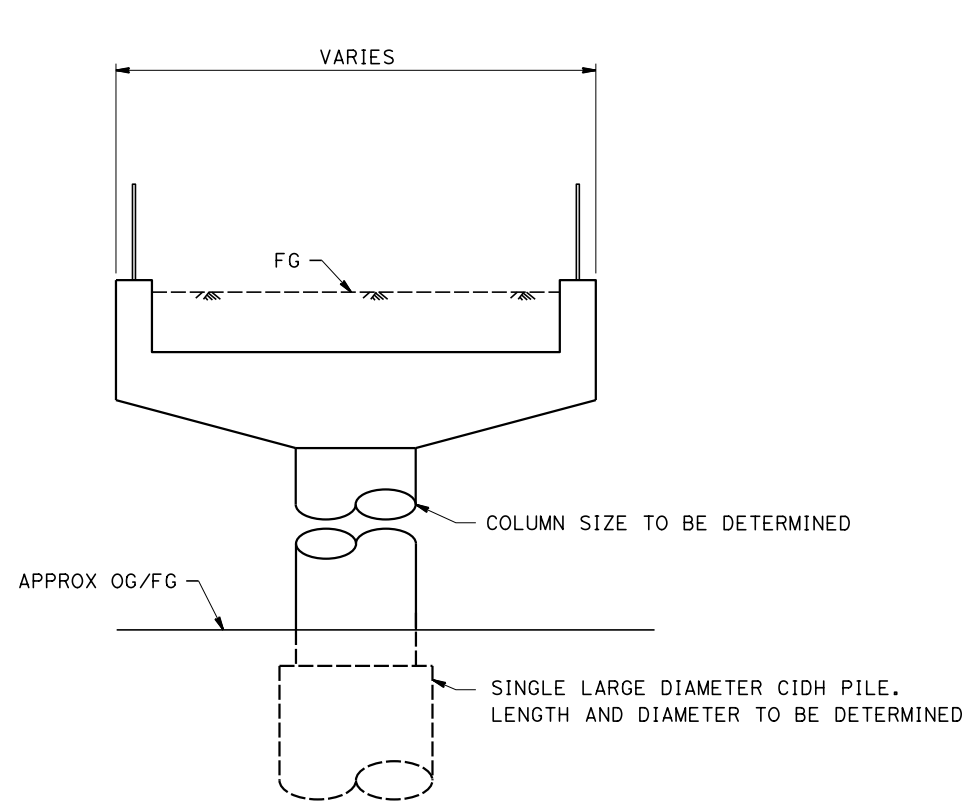
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DRAWING NO.  
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SHEET NO.  
774

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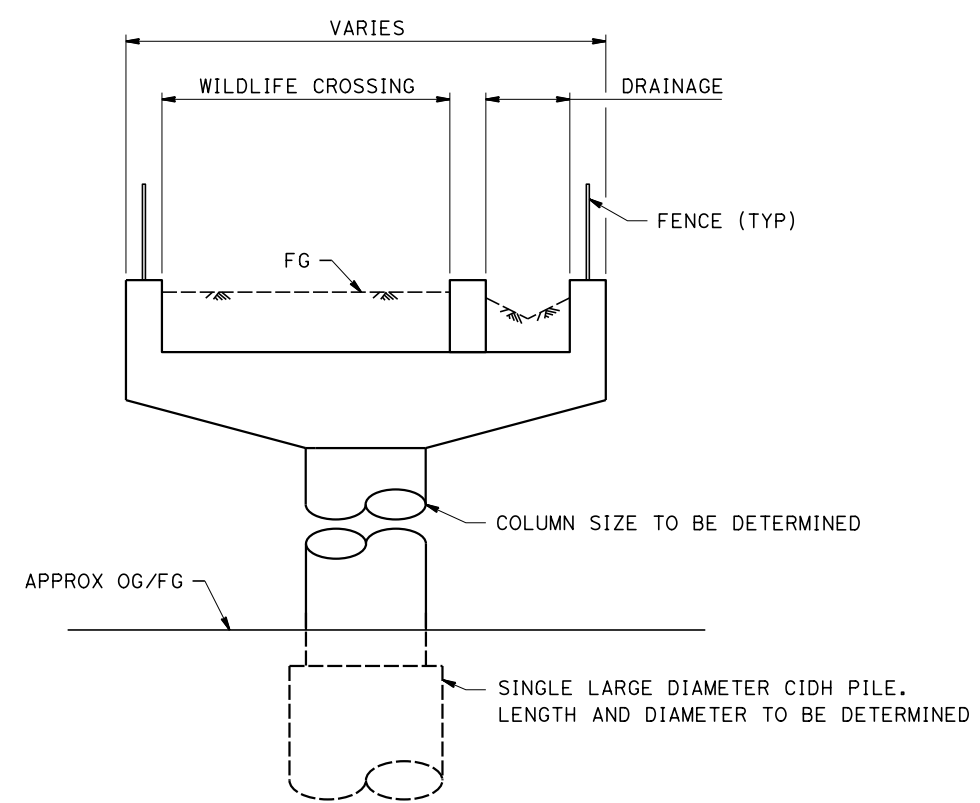
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1/7/2021

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**SECTION L**  
SCALE: 1/2"=1'-0"



**SECTION M**  
SCALE: 1/2"=1'-0"

**ELEVATED WILDLIFE CROSSINGS**

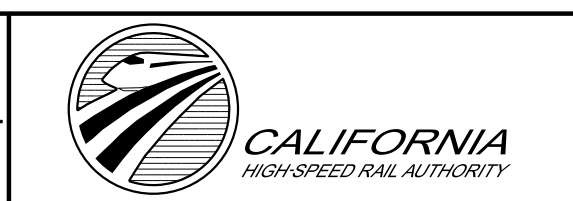
NOTE:  
FOR LOCATIONS OF CROSSINGS  
SEE "GRADING AND DRAINAGE" SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

GENERAL  
TYPICAL SECTIONS  
SHEET 11 OF 11

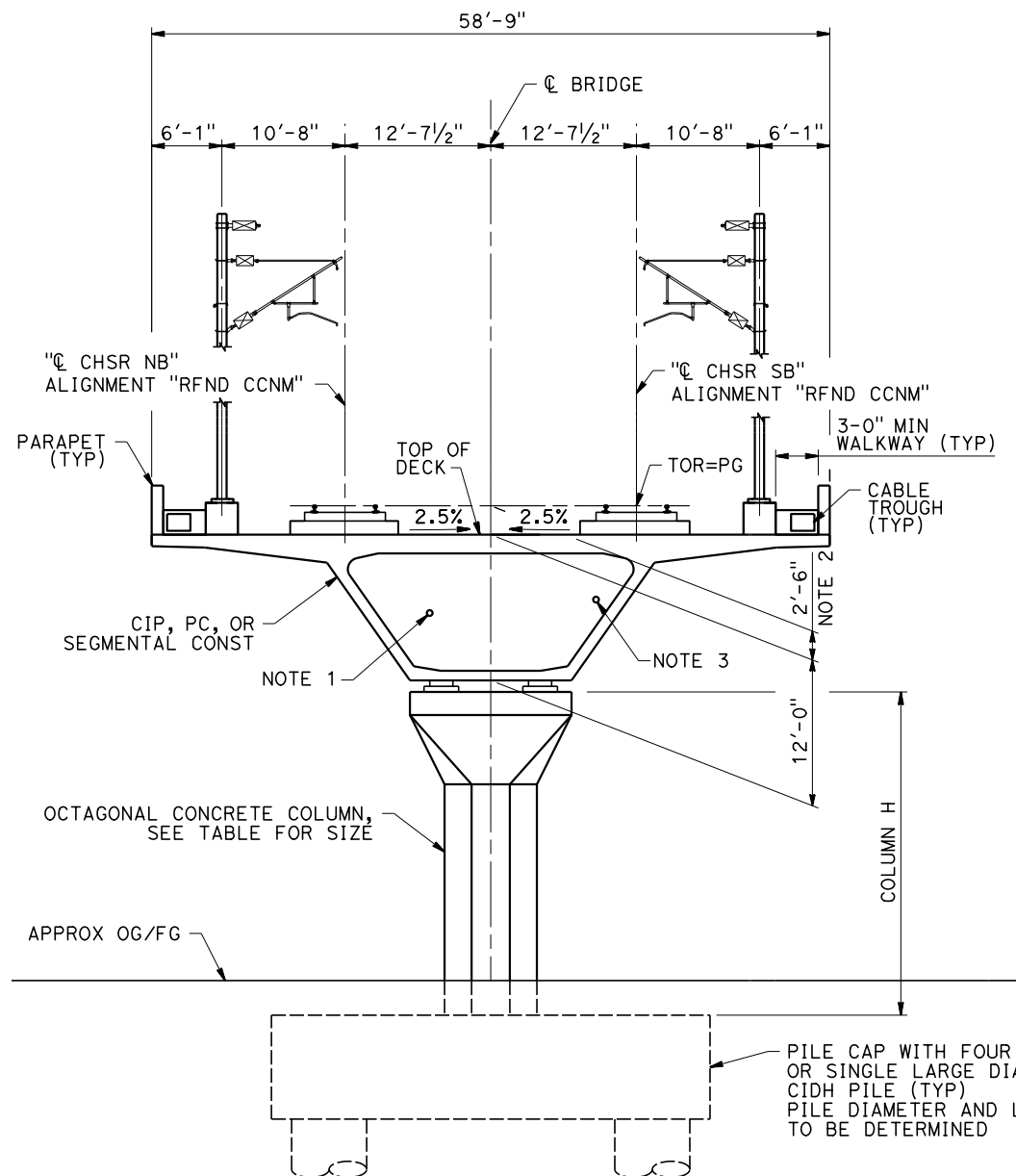
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HSR13-44  
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775

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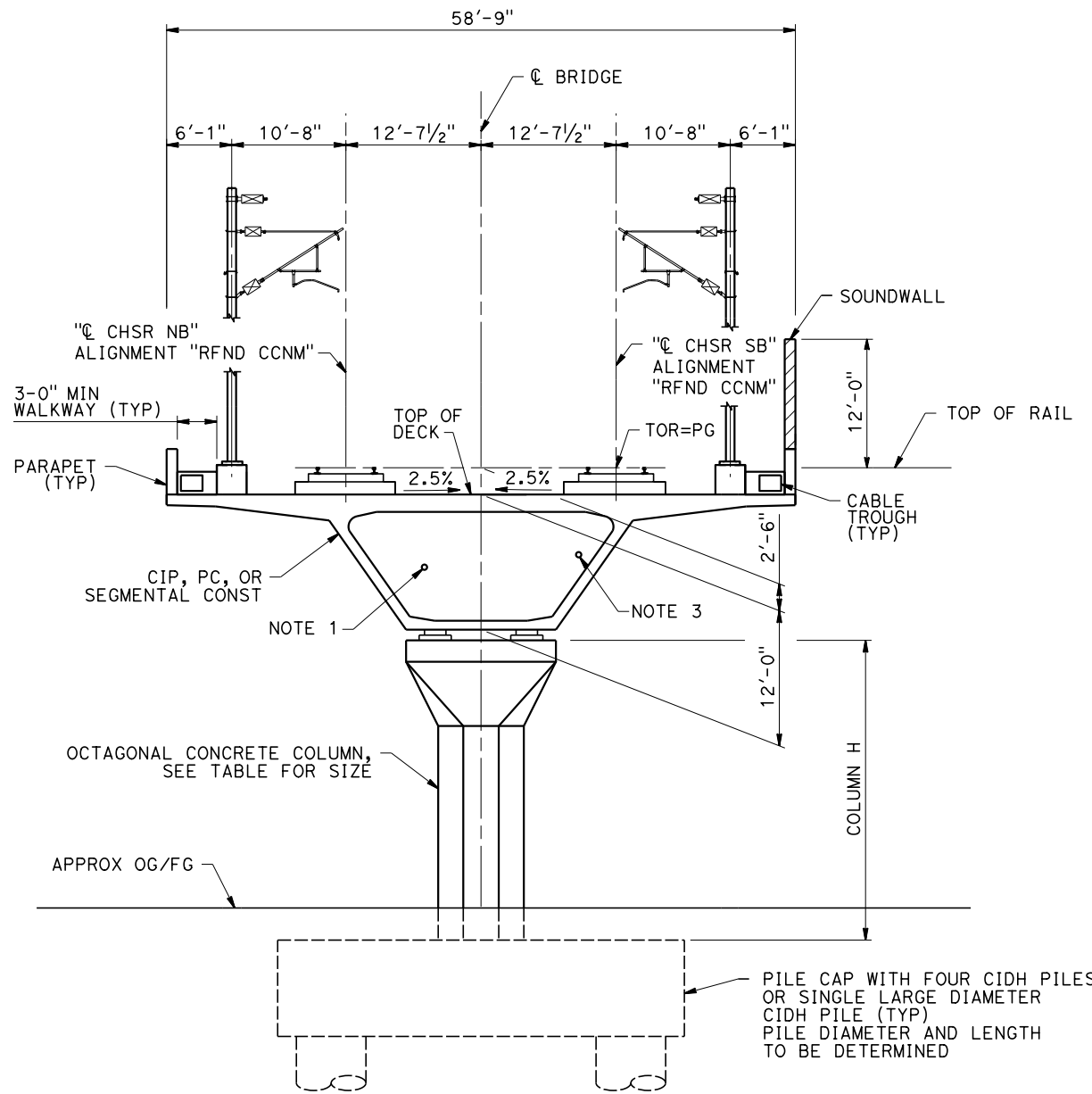
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1/11/2021

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COLUMN SIZE	
COLUMN H	SIZE
0-29'	8'
30-40'	10'
40-60'	12'
60-100'	16'
100-150'	18'



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

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

STA 18465+50	TO	STA 18467+45	(REFINED CCNM DESIGN OPTION)
STA 18491+62	TO	STA 18493+45	(REFINED CCNM DESIGN OPTION)
STA 18744+33	TO	STA 18746+98	(REFINED CCNM DESIGN OPTION)
STA 18838+59	TO	STA 18842+19	(REFINED CCNM DESIGN OPTION)
STA 18845+79	TO	STA 18870+19	(REFINED CCNM DESIGN OPTION)
STA 18871+39	TO	STA 18877+29	(REFINED CCNM DESIGN OPTION)
STA 18883+29	TO	STA 18884+25	(REFINED CCNM DESIGN OPTION)

STA 18597+24 TO STA 18603+56 (REFINED CCNM DESIGN OPTION)

- NOTES:
- PROPOSED 4" CHSR WATERLINE. FROM STATION 18035+00 TO 19590+00.
  - STRUCTURES SHORTER THAN 1000 FEET SUPPORT BALLASTED TRACKS. THE DISTANCE BETWEEN TOP OF RAIL AND TOP OF DECK IN BALLASTED TRACK STRUCTURES WILL BE SLIGHTLY HIGHER AND BETWEEN 2'-6" AND 3'-0".
  - PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**

**TYLIN INTERNATIONAL**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
TRACK STRUCTURES  
TYPICAL SECTIONS  
SHEET 1 OF 7

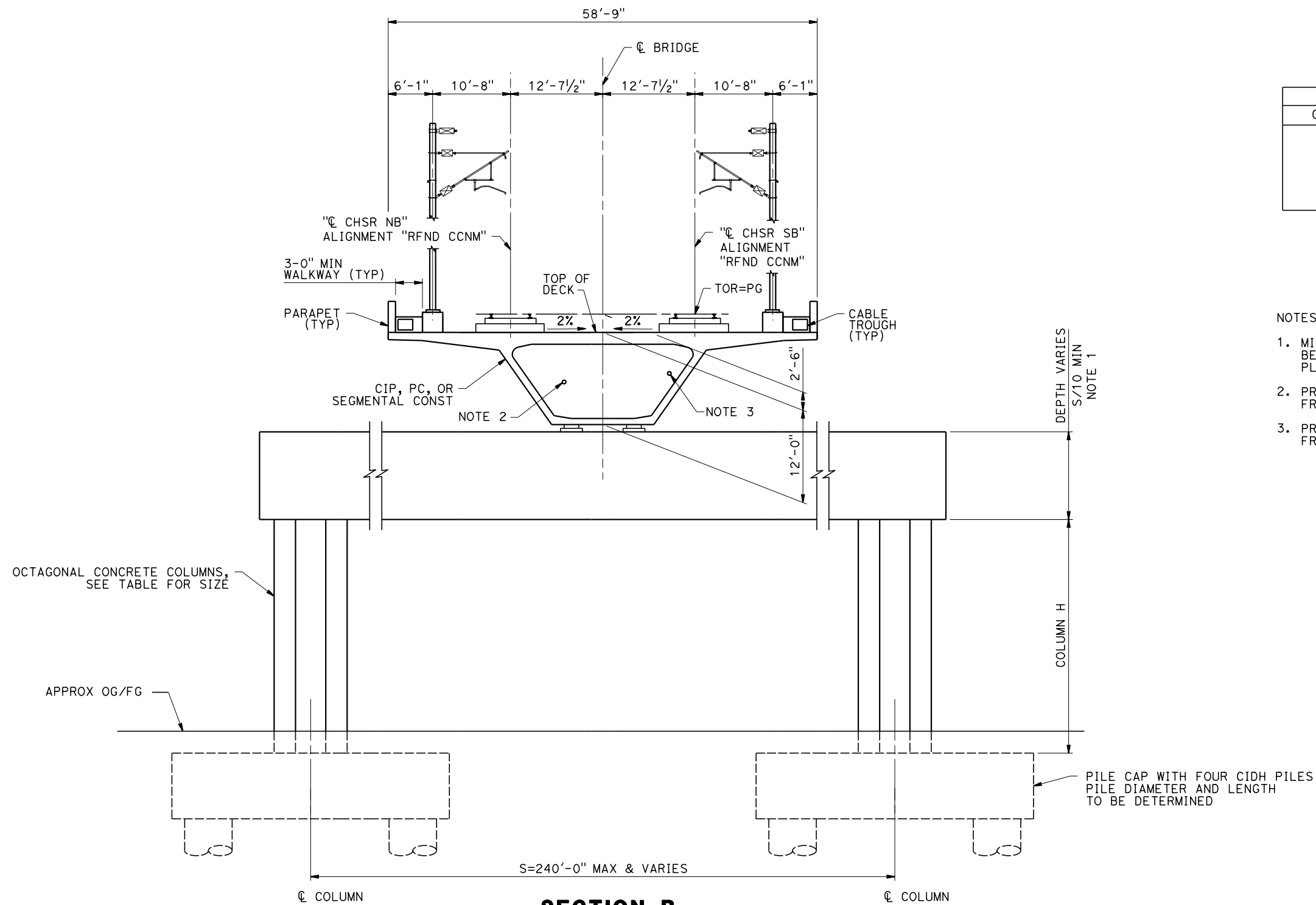
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DRAWING NO.  
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SCALE  
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SHEET NO.  
776

Projects\701206.00\_CADD\CCNM Option D\Sheets\ST\BP-ST-B3102

10:44:43 PM

1/11/2021

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COLUMN SIZE	
COLUMN H	SIZE
0-29'	8'
30-40'	10'
40-60'	12'
60-100'	16'

- NOTES:
1. MINIMUM SEAT WIDTH OF STRADDLE BENT SHALL BE EQUAL TO COLUMN SIZE PLUS 2 FT.
  2. PROPOSED 4" CHSR WATERLINE, FROM STATION 18035+00 TO 19590+00.
  3. PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.

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

STA 18842+19 TO STA 18845+79 (REFINED CCNM DESIGN OPTION)  
 STA 18870+19 (REFINED CCNM DESIGN OPTION)  
 STA 18877+29 (REFINED CCNM DESIGN OPTION)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
 DRAWN BY  
**Y. WANG**  
 CHECKED BY  
**R. BARTON**  
 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  
 TRACK STRUCTURES  
 TYPICAL SECTIONS  
 SHEET 2 OF 7

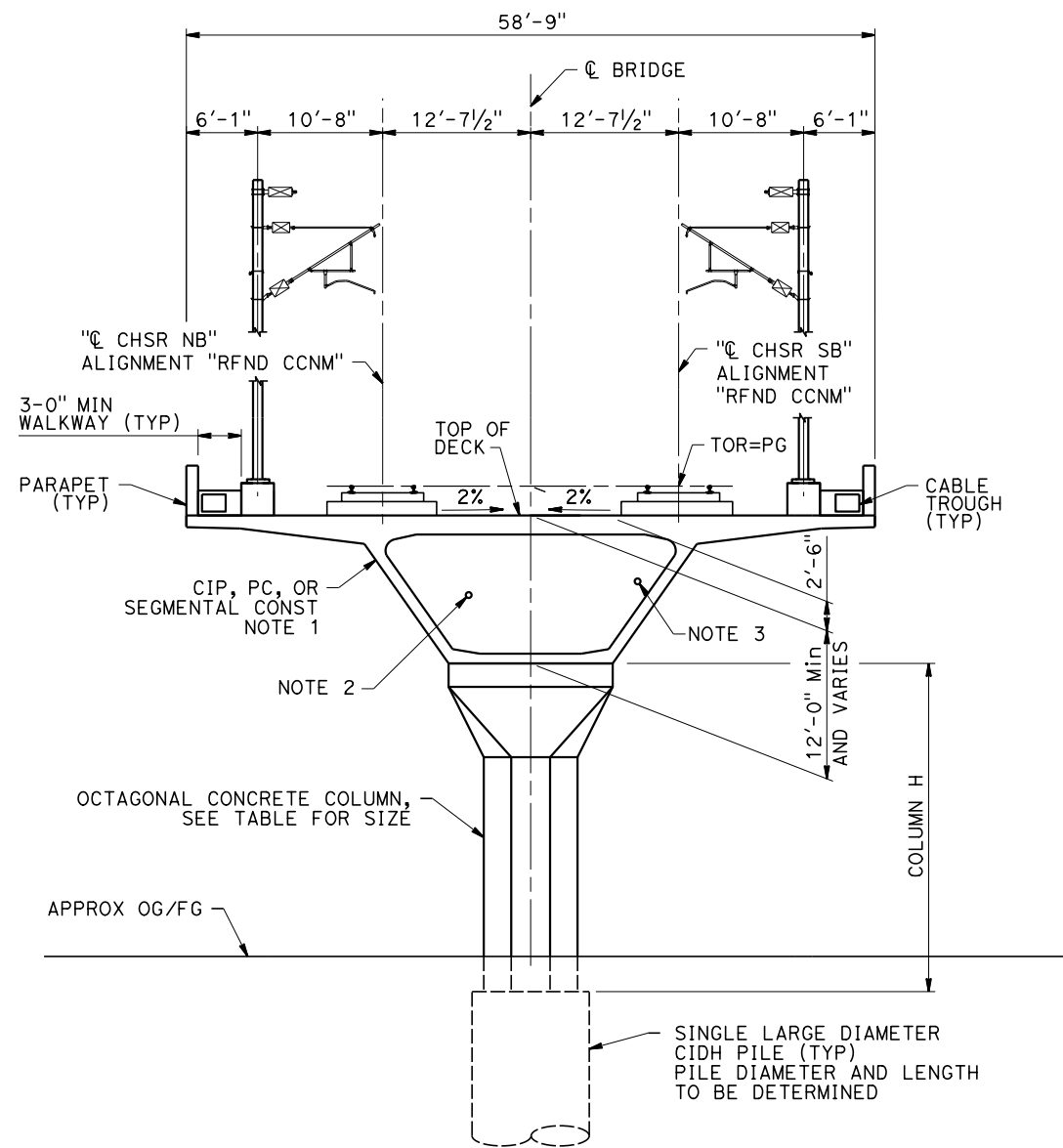
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HSR13-44  
 DRAWING NO.  
ST-B3102  
 SCALE  
AS SHOWN  
 SHEET NO.  
777

Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-B3103

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1/11/2021

yihong.wang@tylin.com



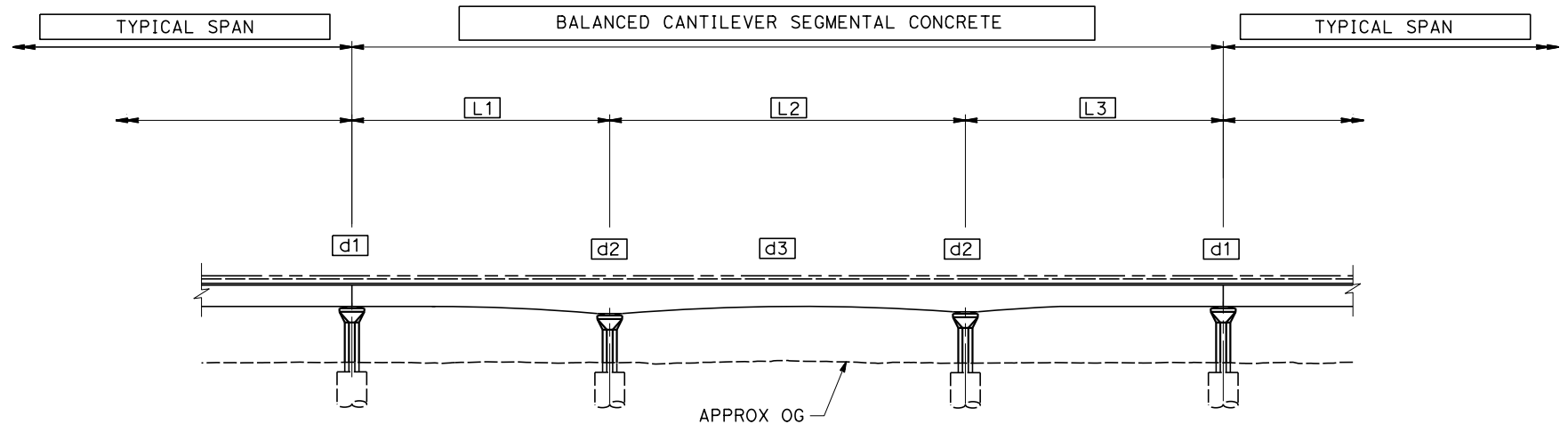
**SECTION C**  
SCALE: 1/2"=1'-0"

STA 18878+29 TO STA 18883+29 (REFINED CCNM DESIGN OPTION)

COLUMN SIZE	
COLUMN H	SIZE
0-29'	8'
30-40'	10'
40-60'	12'
60-100'	16'
100-150'	18'

**NOTES:**

- GIRDER SIDE SLOPE VARIES DEPENDING ON STRUCTURE DEPTH AT SUPPORT.
- PROPOSED 4" CHSR WATERLINE. FROM STATION 18035+00 TO 19590+00.
- PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.



**BALANCED CANTILEVER SEGMENTAL**  
SCALE: 1/4"=1'-0"

- d1 = 12'-0"
- d2 = L2/12
- d3 = L2/20

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY <b>R. GOLCHOBIAN</b>
DRAWN BY <b>Y. WANG</b>
CHECKED BY <b>R. BARTON</b>
IN CHARGE <b>G. CAMPBELL</b>
DATE <b>01/29/2021</b>

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

REFINED CCNM DESIGN OPTION  
TRACK STRUCTURES  
TYPICAL SECTIONS  
SHEET 3 OF 7

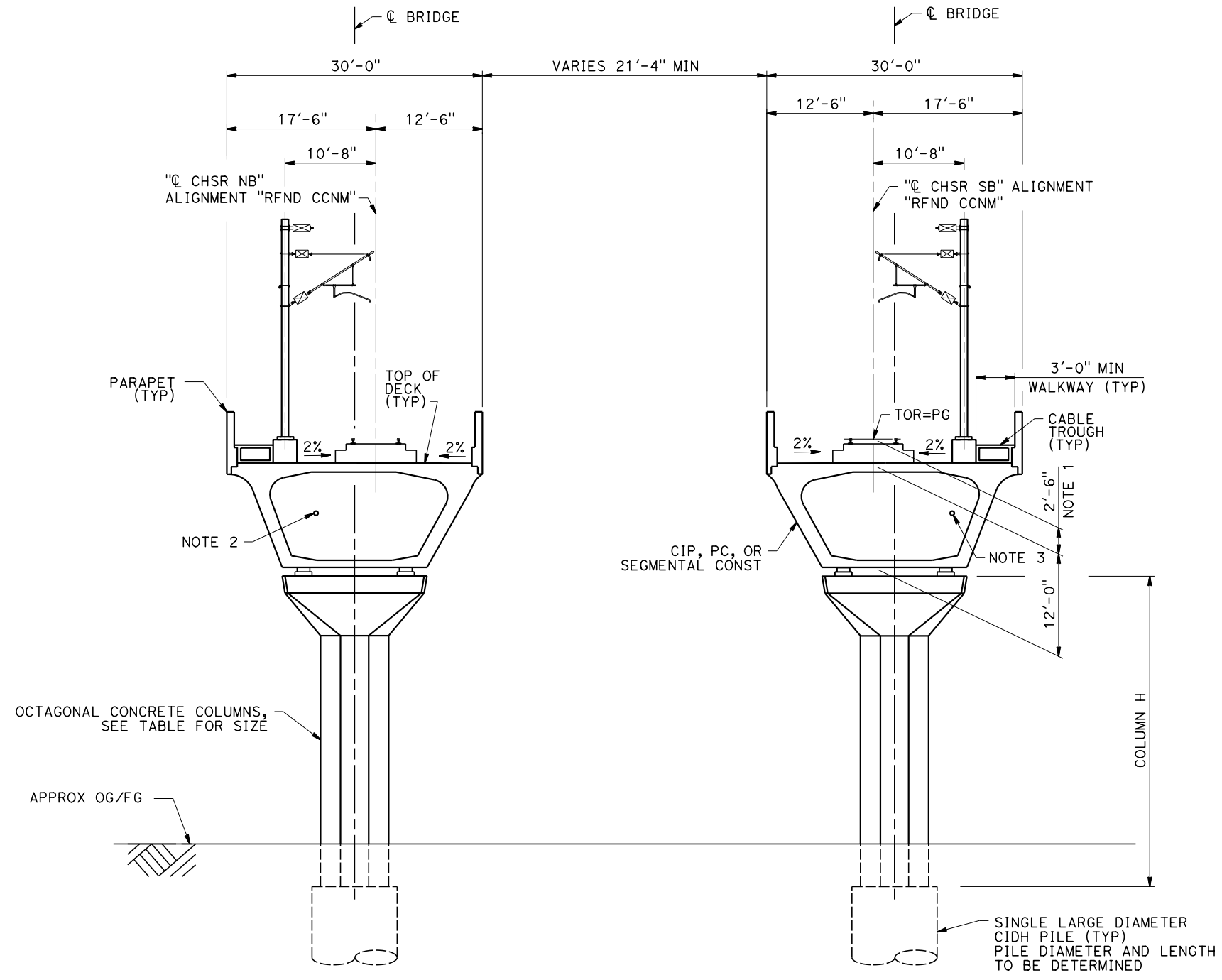
CONTRACT NO. <b>HSR13-44</b>
DRAWING NO. <b>ST-B3103</b>
SCALE <b>AS SHOWN</b>
SHEET NO. <b>778</b>

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y.hong.wang@tylin.com



COLUMN SIZE	
COLUMN H	SIZE
0-29'	8'
30-40'	10'
40-60'	12'

NOTES:

- STRUCTURES SHORTER THAN 1000 FEET SUPPORT BALLASTED TRACKS. THE DISTANCE BETWEEN TOP OF RAIL AND TOP OF DECK IN BALLASTED TRACK STRUCTURES WILL BE SLIGHTLY HIGHER AND BETWEEN 2'-6" AND 3'-0".
- PROPOSED 4" CHSR WATERLINE, FROM STATION 18035+00 TO 19590+00.
- PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.

**SECTION D**

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

STA 19075+84 TO STA 19077+84 (REFINED CCNM DESIGN OPTION)  
 STA 19076+14 TO STA 19078+14 (REFINED CCNM DESIGN OPTION)  
 STA 19102+97 SB (REFINED CCNM DESIGN OPTION) TO STA 19097+23.69 SB (ALT 1,2,3,5)  
 STA 19104+73 NB (REFINED CCNM DESIGN OPTION) TO STA 19097+54.69 NB (ALT 1,2,3,5)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
 DRAWN BY  
**Y. WANG**  
 CHECKED BY  
**R. BARTON**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**

**TYLIN INTERNATIONAL**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
 REFINED CCNM DESIGN OPTION  
 TRACK STRUCTURES  
 TYPICAL SECTIONS  
 SHEET 4 OF 7

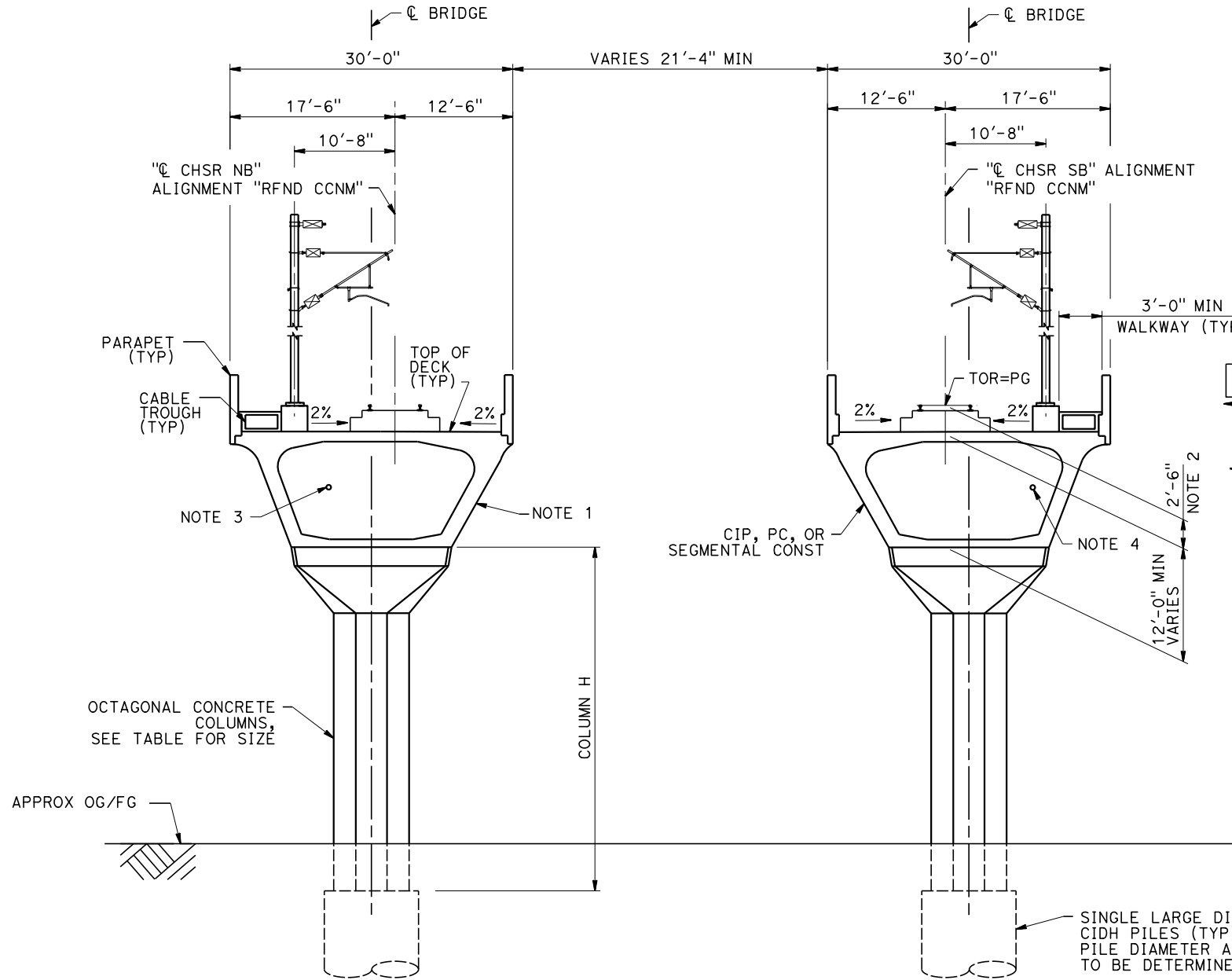
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**HSR13-44**  
 DRAWING NO.  
**ST-B3104**  
 SCALE  
**AS SHOWN**  
 SHEET NO.  
**779**

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yihong.wang@tylin.com

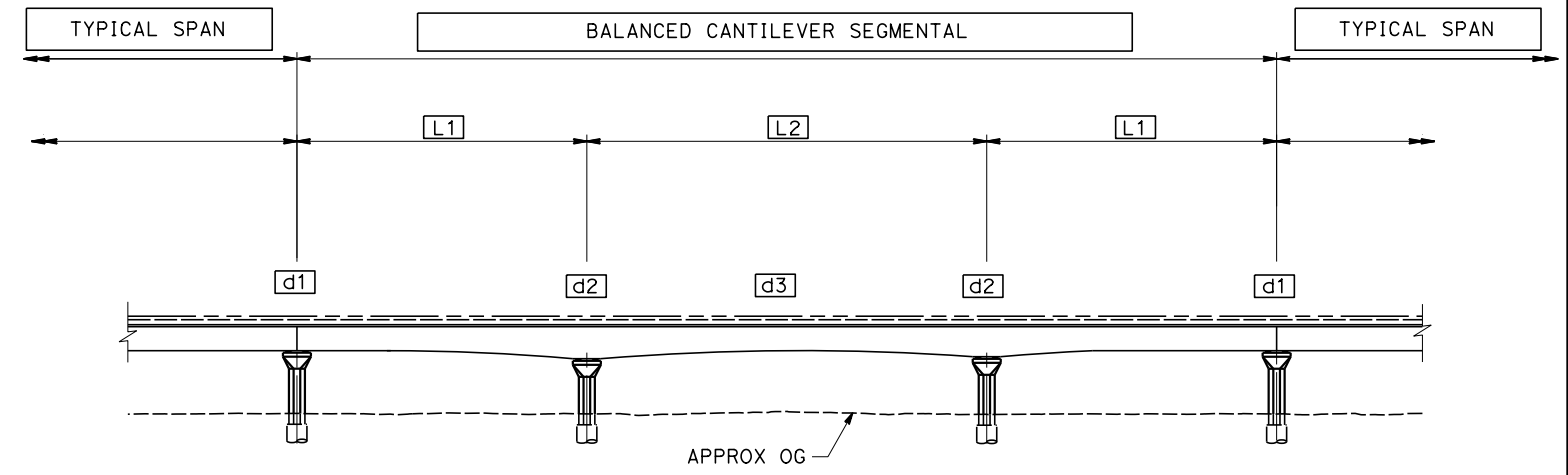


**SECTION E**  
SCALE: 1/4"=1'-0"

STA 19097+53 TO STA 19102+97 SB (REFINED CCNM DESIGN OPTION)  
STA 19099+32 TO STA 19104+73.61 NB (REFINED CCNM DESIGN OPTION)

COLUMN SIZE	
COLUMN H	SIZE
0-29'	8'
30-40'	10'
40-60'	12'

- NOTES:
- GIRDER SIDE SLOPE VARIES DEPENDING ON STRUCTURE DEPTH AT SUPPORT.
  - STRUCTURES SHORTER THAN 1000 FEET SUPPORT BALLASTED TRACKS. THE DISTANCE BETWEEN TOP OF RAIL AND TOP OF DECK IN BALLASTED TRACK STRUCTURES WILL BE SLIGHTLY HIGHER AND BETWEEN 2'-6" AND 3'-0".
  - PROPOSED 4" CHSR WATERLINE. FROM STATION 18035+00 TO 19590+00.
  - PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.



**BALANCED CANTILEVER SEGMENTAL**  
SCALE: 1/4"=1'-0"

- d1 = 12'-0"
- d2 = L2/12
- d3 = L2/20

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
TYPICAL SECTIONS  
SHEET 5 OF 7

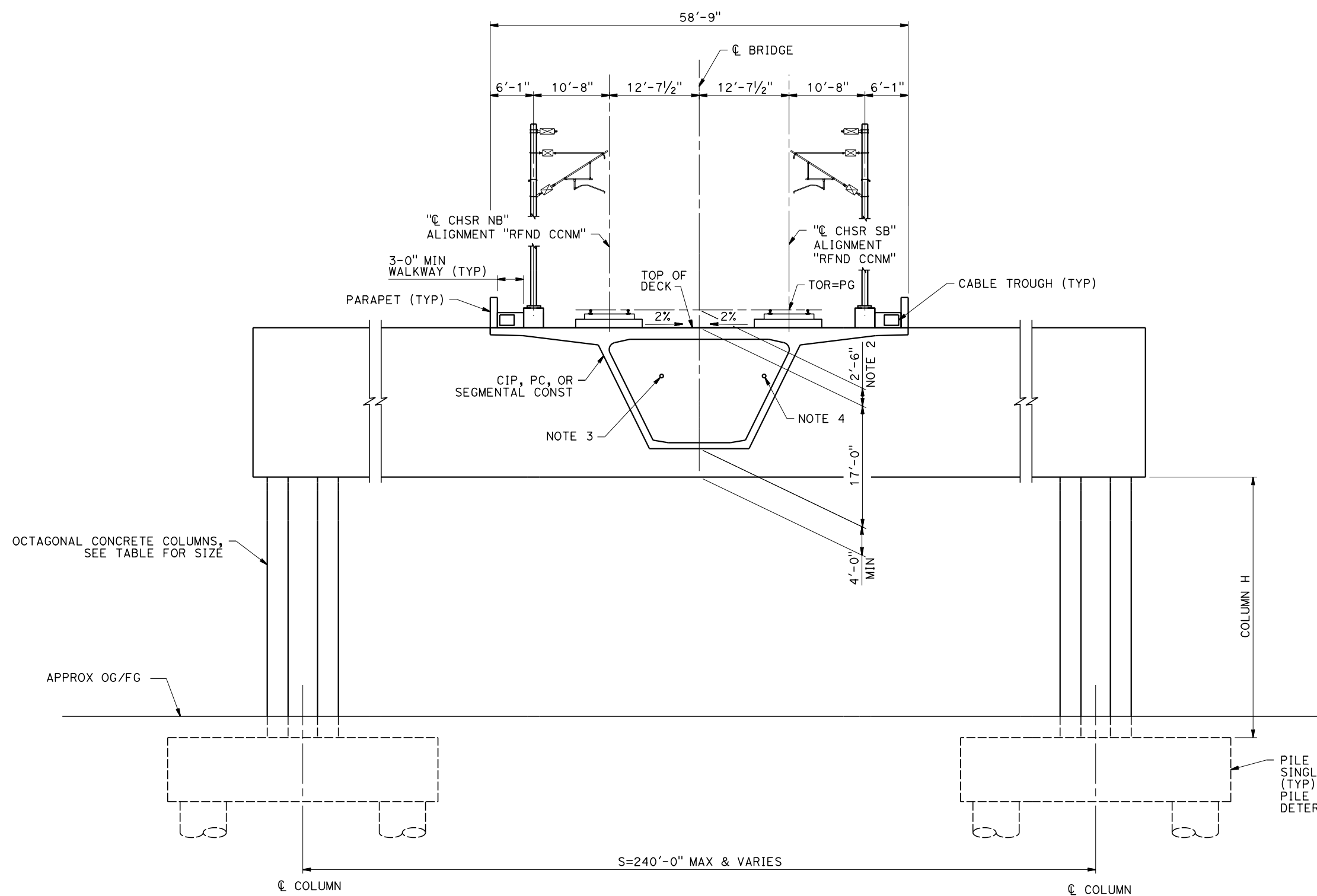
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DRAWING NO.  
ST-B3105  
SCALE  
AS SHOWN  
SHEET NO.  
780

Projects\701206.00\_CADD\CCNM Option D\Sheets\ST\BP-ST-B3106

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1/11/2021

yihong.wang@tylin.com



- NOTES:
1. MINIMUM WIDTH OF STRADDLE BENT SHALL BE EQUAL TO COLUMN SIZE PLUS 2FT.
  2. STRUCTURES SHORTER THAN 1000 FEET SUPPORT BALLASTED TRACKS. THE DISTANCE BETWEEN TOP OF RAIL AND TOP OF DECK IN BALLASTED TRACK STRUCTURES WILL BE SLIGHTLY HIGHER AND BETWEEN 2'-6" AND 3'-0".
  3. PROPOSED 4" CHSR WATERLINE. FROM STATION 18035+00 TO 19590+00.
  4. PROPOSED CHSR ELECTRICAL POWER FROM STATION 18035+00 TO 19590+00.

**SECTION F**  
SCALE: 1/2"=1'-0"

STA 18880+49 (REFINED CCNM DESIGN OPTION)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**

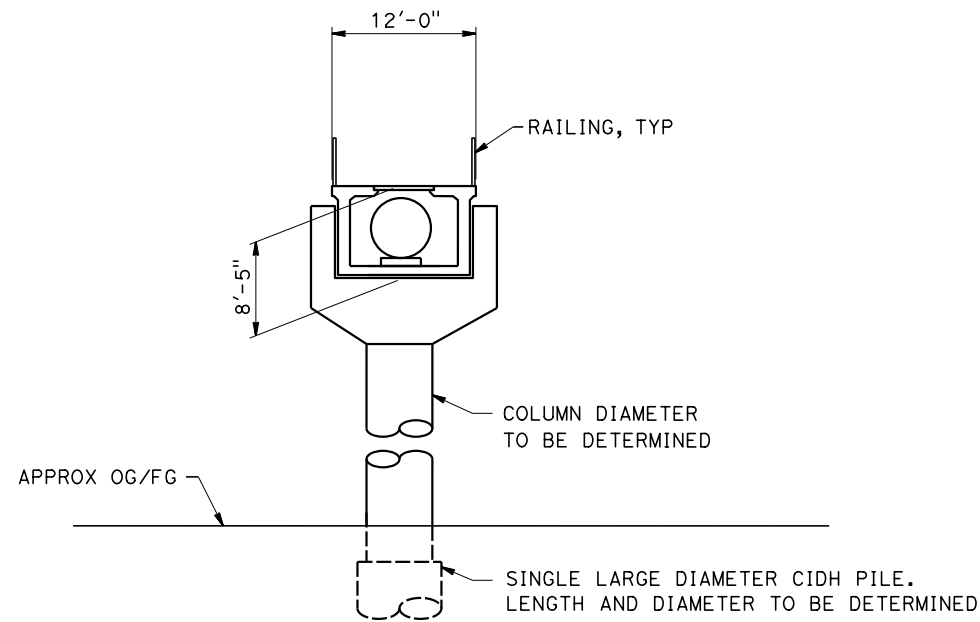


**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
TRACK STRUCTURES  
TYPICAL SECTIONS  
SHEET 6 OF 7

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-B3106  
SCALE  
AS SHOWN  
SHEET NO.  
781





**SECTION G**

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

**ELEVATED UTILITY CROSSINGS**

**NOTE:**

FOR LOCATIONS OF CROSSINGS  
SEE CV-G SHEETS.

Projects\701206.00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-B3107

1/11/2021 10:44:56 PM

y.hong.wang@tylin.com

y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**

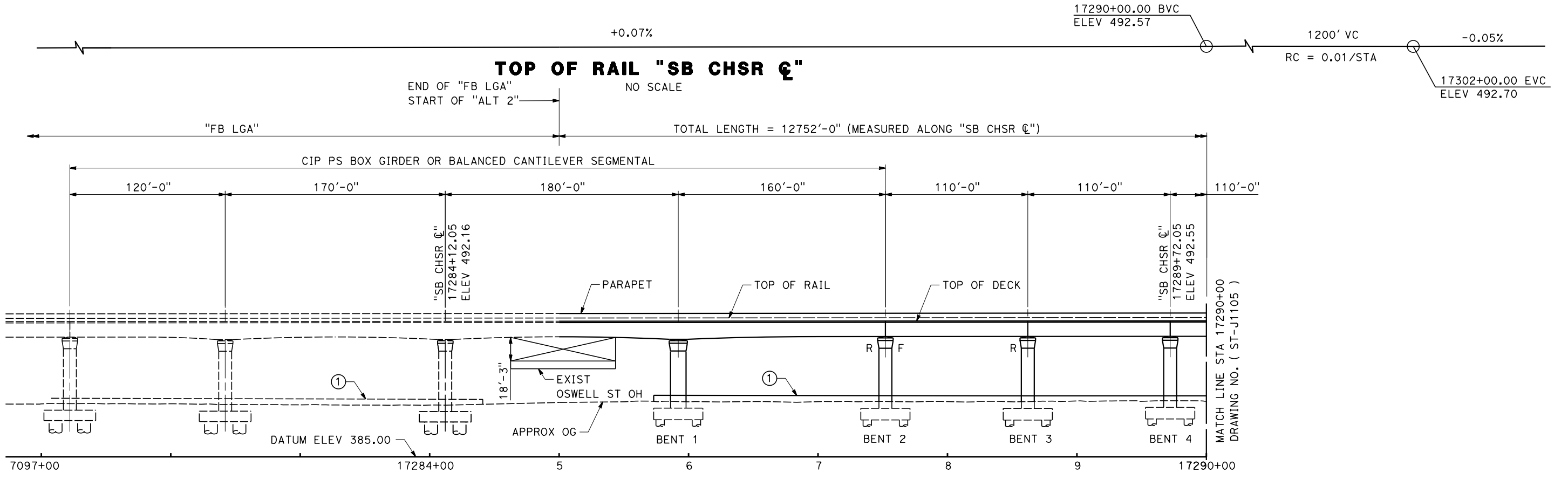


**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

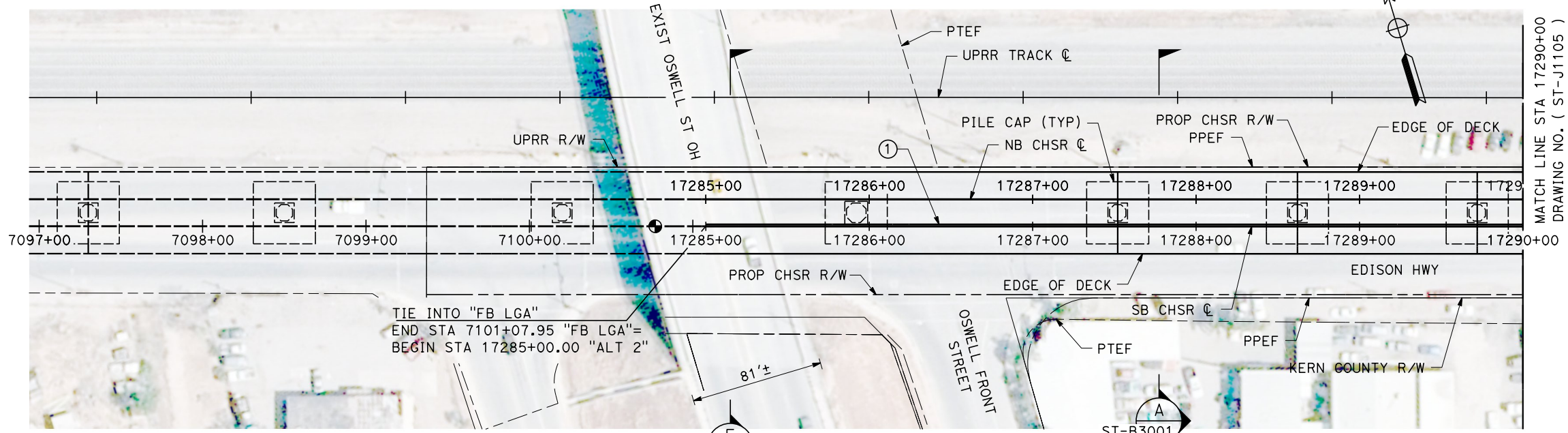
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TRACK STRUCTURES  
TYPICAL SECTIONS  
SHEET 7 OF 7

CONTRACT NO.  
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DRAWING NO.  
ST-B3107  
SCALE  
AS SHOWN  
SHEET NO.  
782

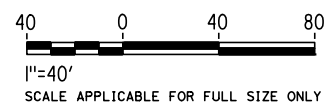
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**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



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

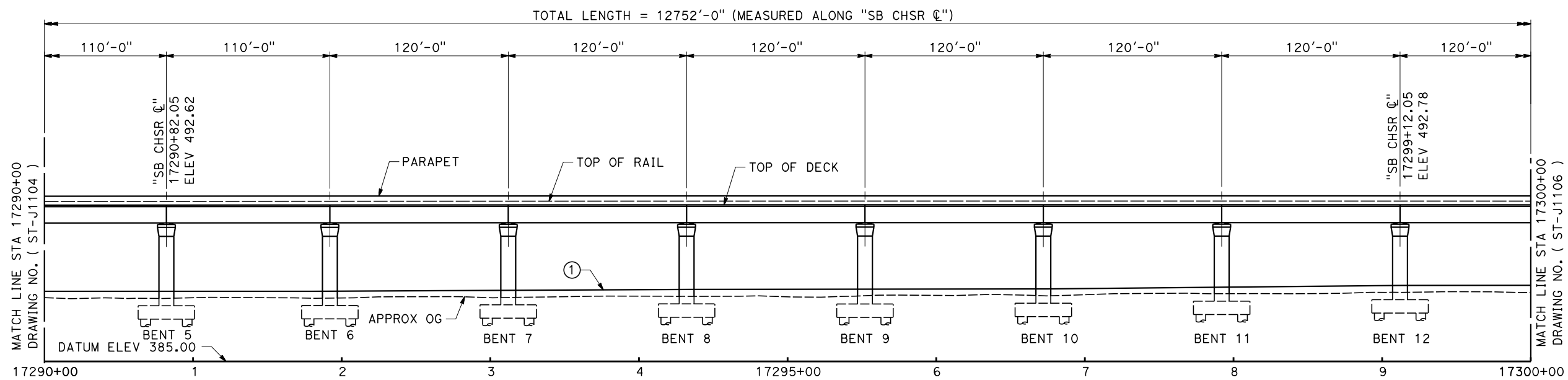
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TRACK STRUCTURES  
VIADUCT STATION 17285+00 TO 17412+52.05  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44

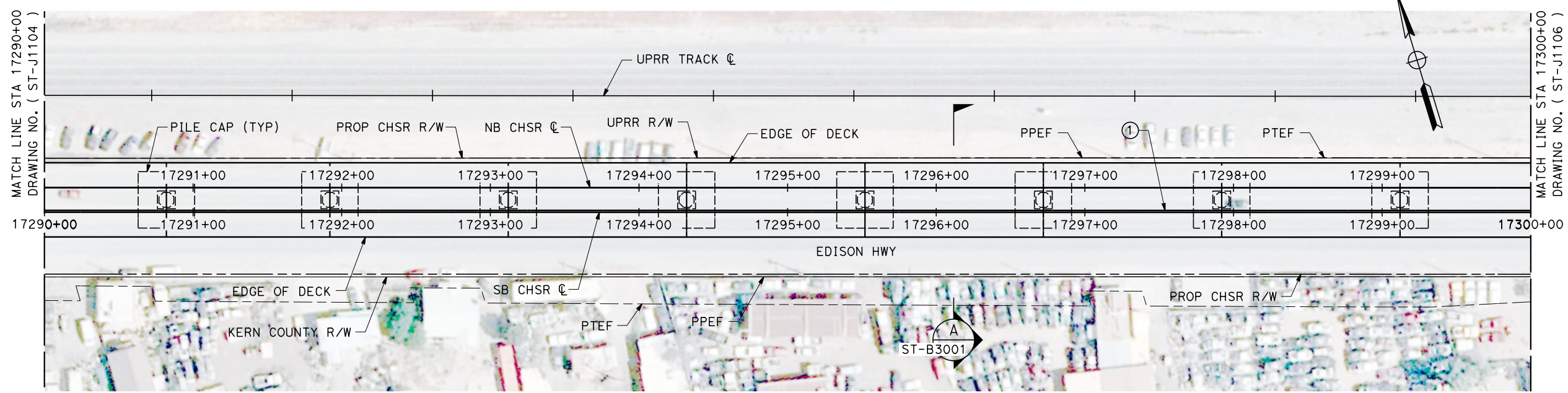
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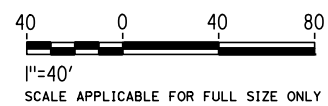
SHEET NO.  
783



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1105  
3:08:12 PM  
1/7/2021  
y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
VIADUCT STATION 17285+00 TO 17412+52.05  
PLAN AND ELEVATION

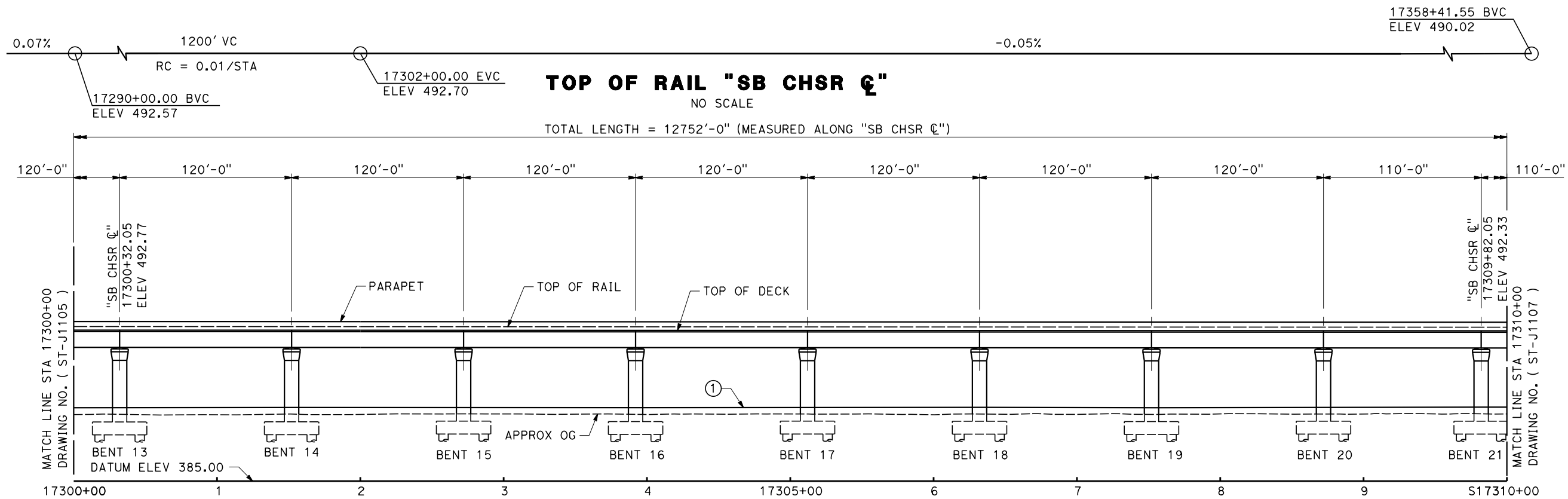
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AS SHOWN  
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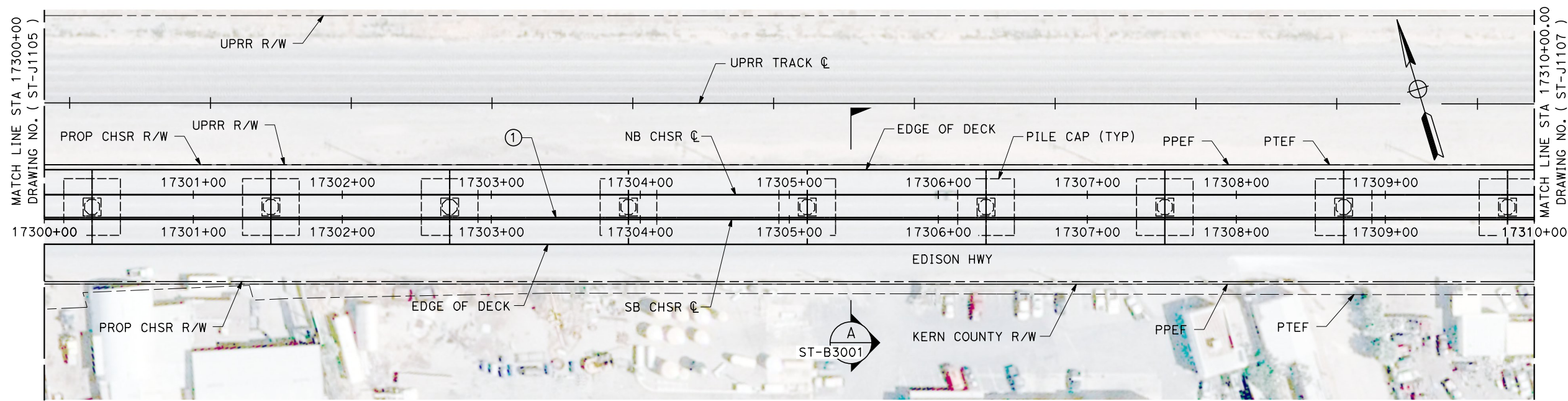
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1/7/2021

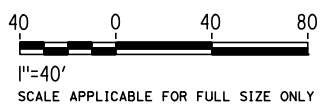
yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

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  
TRACK STRUCTURES  
VIADUCT STATION 17285+00 TO 17412+52.05  
PLAN AND ELEVATION

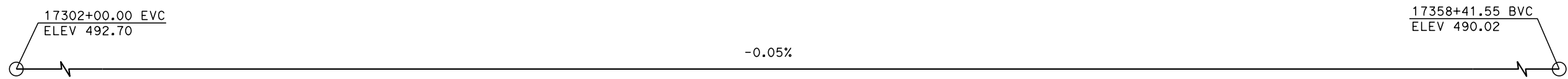
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DRAWING NO.  
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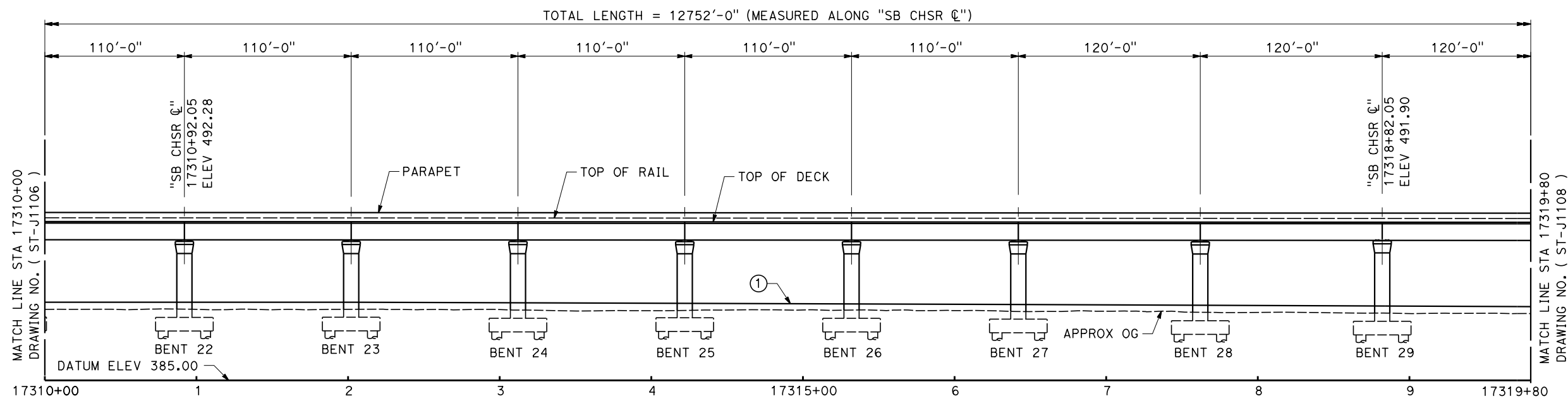
SCALE  
AS SHOWN

SHEET NO.  
785

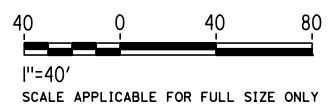
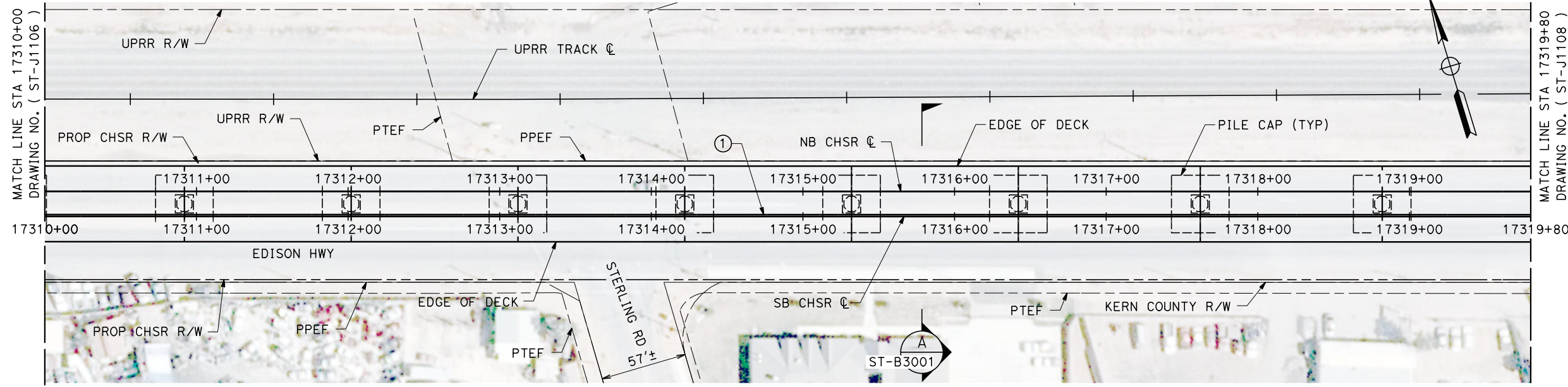
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**TOP OF RAIL "SB CHSR C"**  
NO SCALE



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

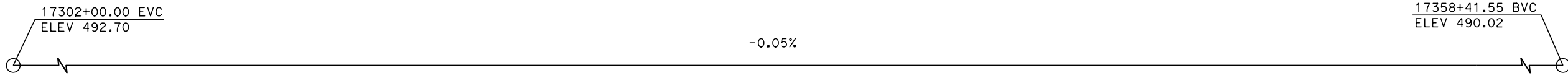
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVE 2  
TRACK STRUCTURES  
VIADUCT STATION 17285+00 TO 17412+52.05  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44  
DRAWING NO.  
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SCALE  
AS SHOWN  
SHEET NO.  
786

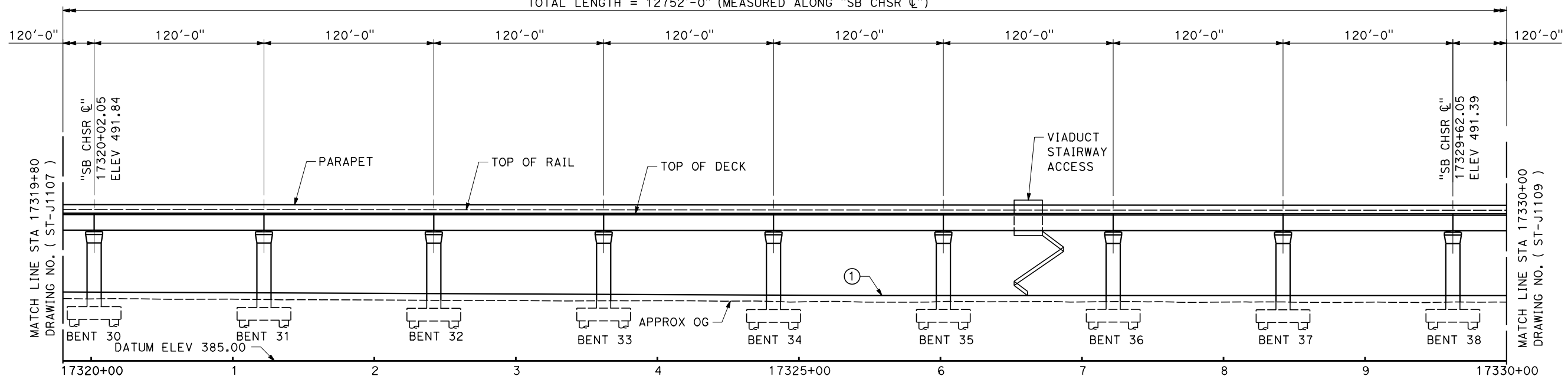
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 1/7/2021  
 y.hong.wang@tylin.com



**TOP OF RAIL "SB CHSR ☉"**

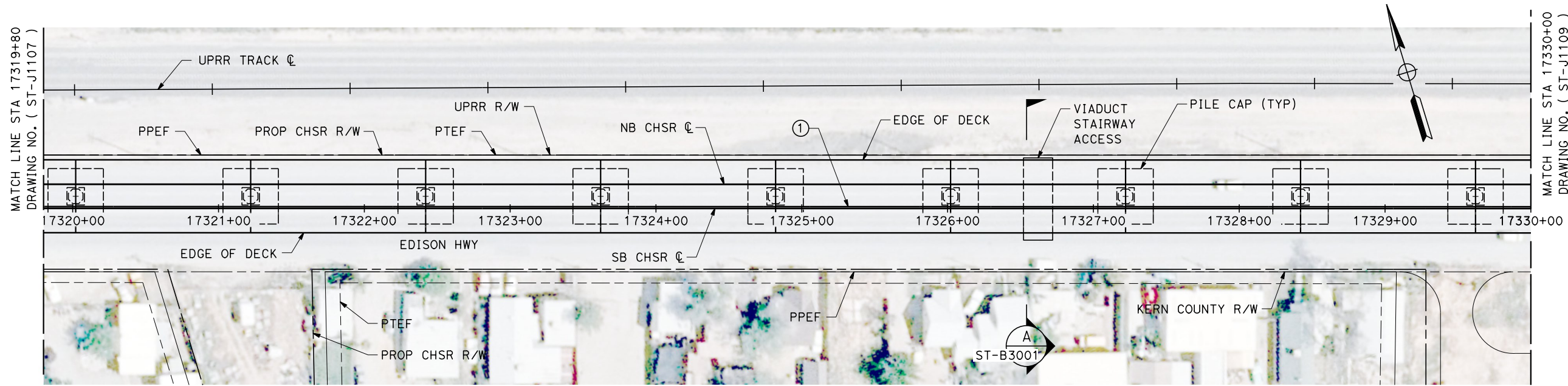
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TOTAL LENGTH = 12752'-0" (MEASURED ALONG "SB CHSR ☉")



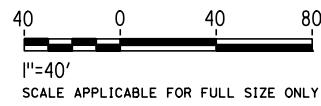
**ELEVATION**

SCALE 1" = 40'



**PLAN**

SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
 DRAWN BY  
**Y. WANG**  
 CHECKED BY  
**R. BARTON**  
 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  
 TRACK STRUCTURES  
 VIADUCT STATION 17285+00 TO 17412+52.05  
 PLAN AND ELEVATION

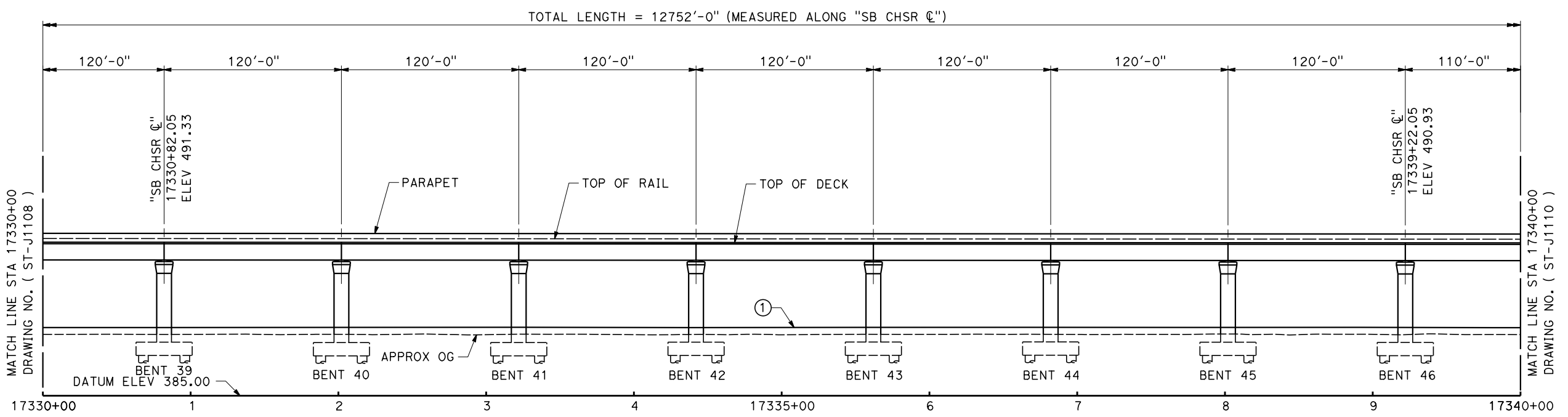
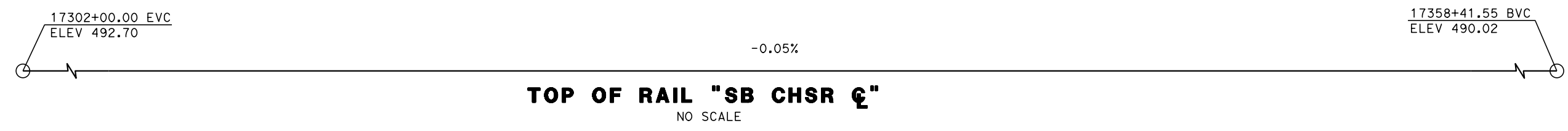
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**ST-J1108**  
 SCALE  
**AS SHOWN**  
 SHEET NO.  
**787**

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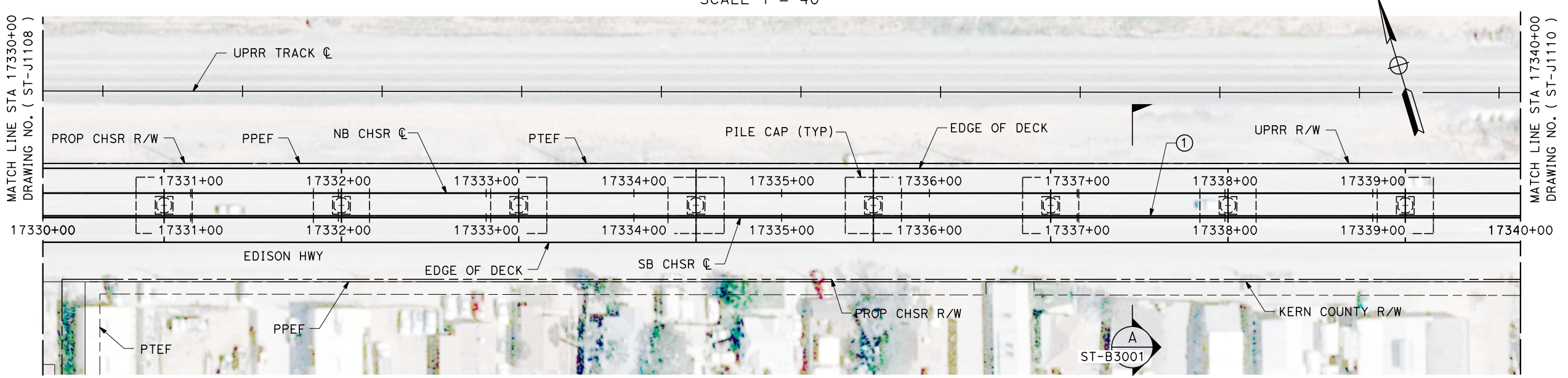
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1/7/2021

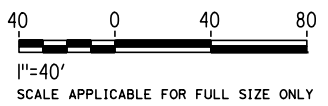
yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
VIADUCT STATION 17285+00 TO 17412+52.05  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44  
DRAWING NO.  
ST-J1109  
SCALE  
AS SHOWN  
SHEET NO.  
788

17302+00.00 EVC  
ELEV 492.70

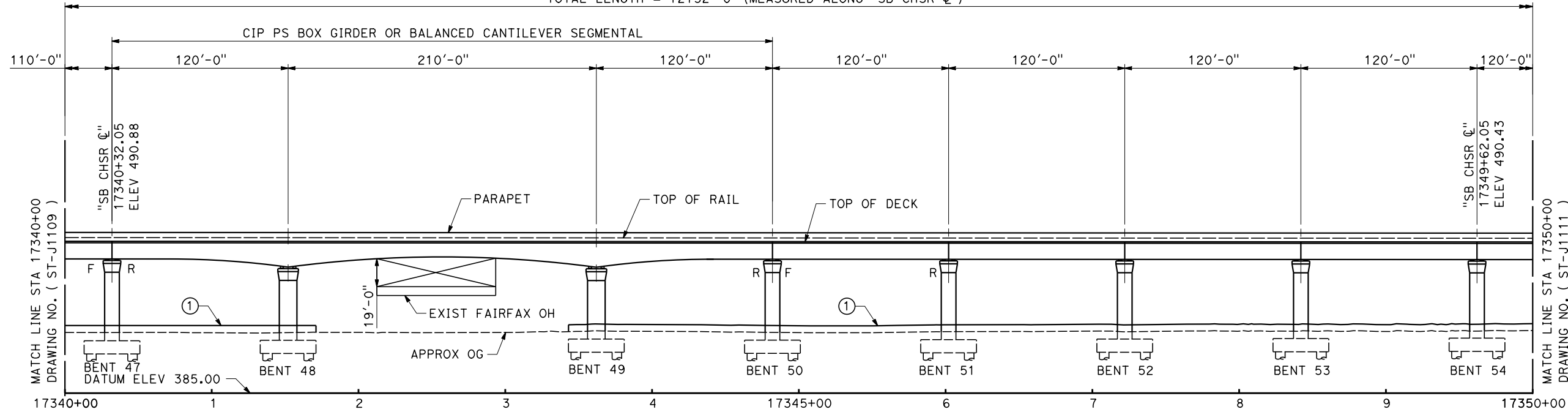
17358+41.55 BVC  
ELEV 490.02

-0.05%

**TOP OF RAIL "SB CHSR C"**

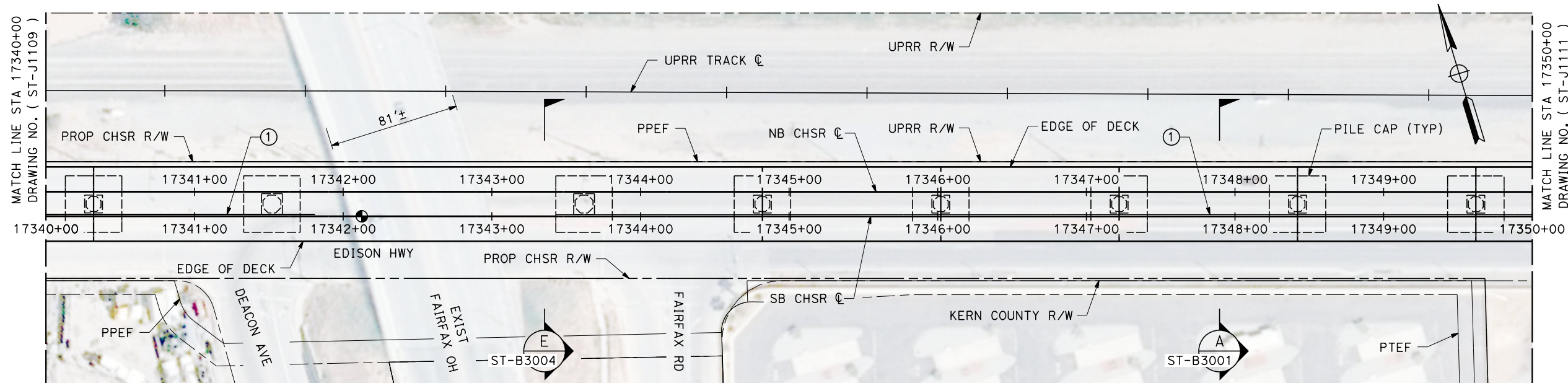
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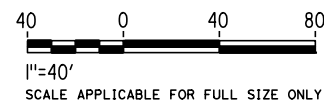
**ELEVATION**

SCALE 1" = 40'



**PLAN**

SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1110

3:07:40 PM

1/7/2021

y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

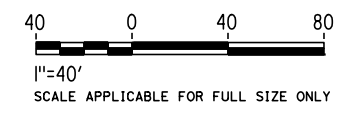
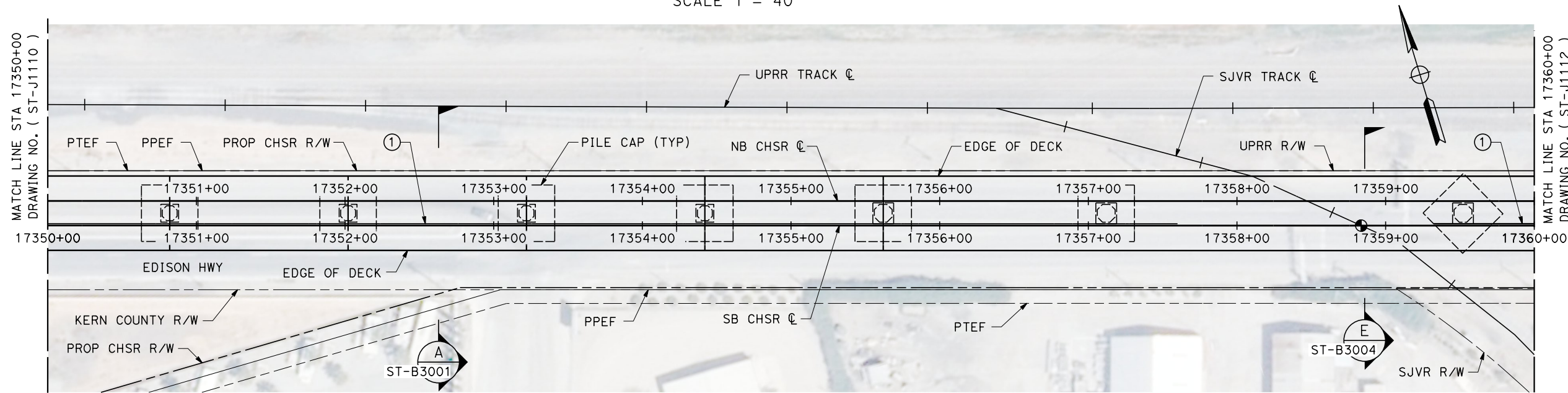
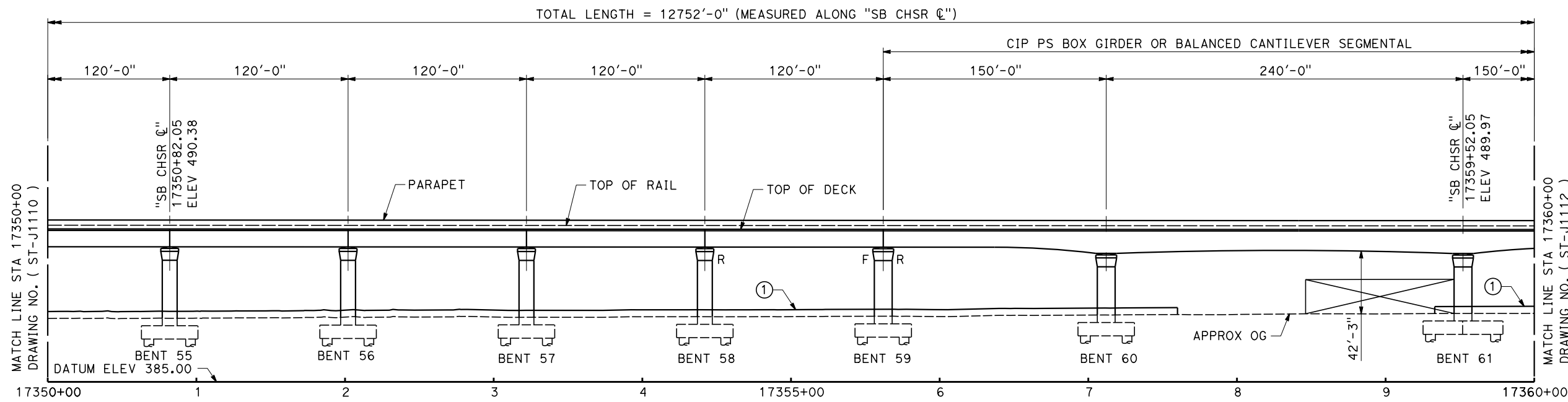
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVE 2  
TRACK STRUCTURES  
VIADUCT STATION 17285+00 TO 17412+52.05  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44  
DRAWING NO.  
ST-J1110  
SCALE  
AS SHOWN  
SHEET NO.  
789





Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1111  
11:36:55 PM  
1/7/2021  
y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



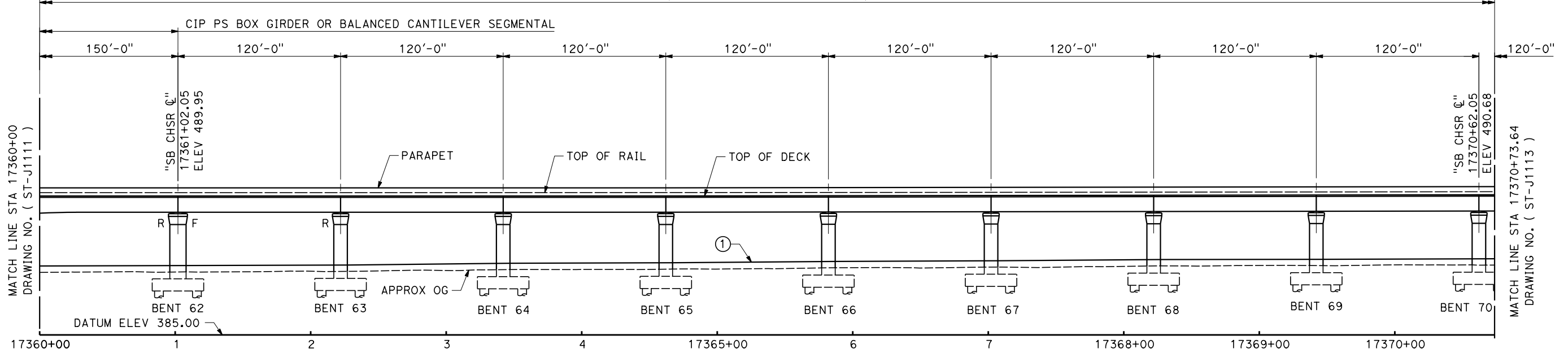
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVE 2  
TRACK STRUCTURES  
VIADUCT STATION 17285+00 TO 17412+52.05  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44  
DRAWING NO.  
ST-J1111  
SCALE  
AS SHOWN  
SHEET NO.  
790

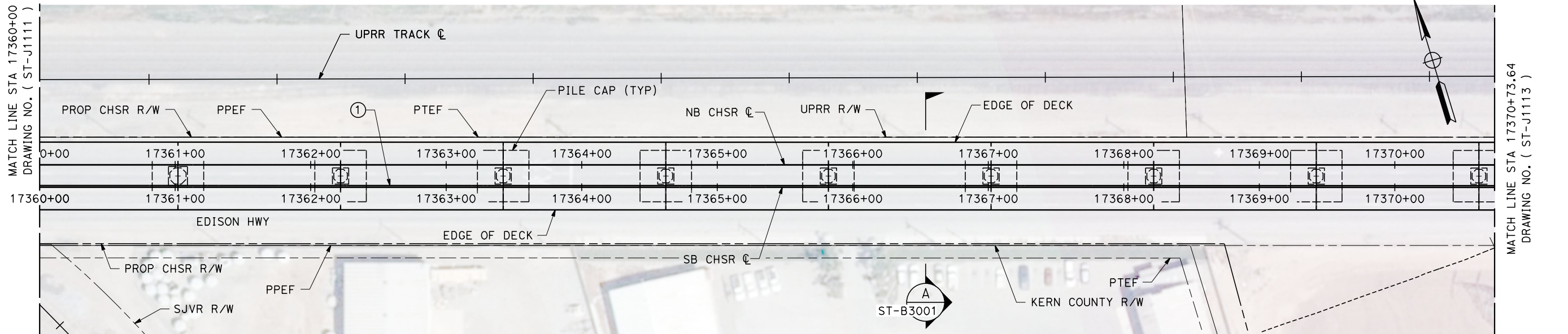


**TOP OF RAIL "SB CHSR C"**  
NO SCALE

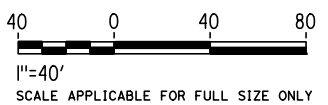
TOTAL LENGTH = 12752'-0" (MEASURED ALONG "SB CHSR C")



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1112  
11:36:48 PM  
1/7/2021  
y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
VIADUCT STATION 17285+00 TO 17412+52.05  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44  
DRAWING NO.  
ST-J1112  
SCALE  
AS SHOWN  
SHEET NO.  
791

17407+81.55 BVC  
ELEV 496.38

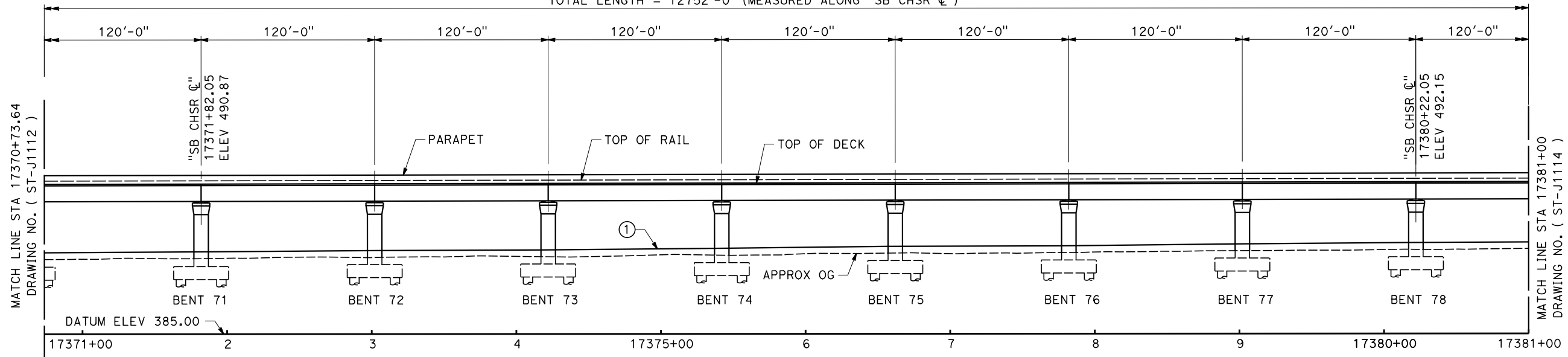
0.15%

17370+41.55 EVC  
ELEV 490.65

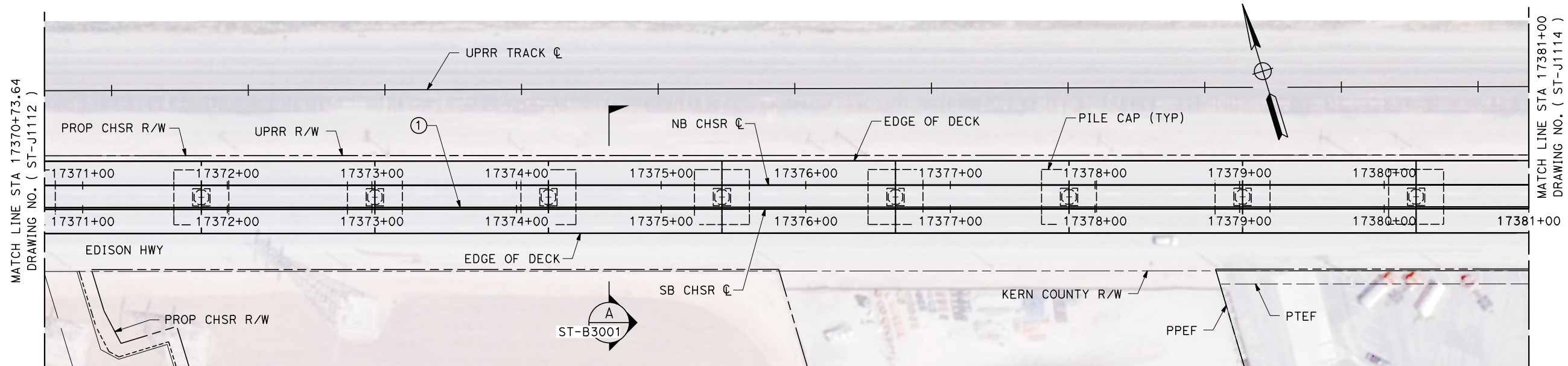
**TOP OF RAIL "SB CHSR ☉"**

NO SCALE

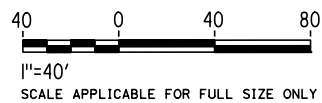
TOTAL LENGTH = 12752'-0" (MEASURED ALONG "SB CHSR ☉")



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1113  
11:36:56 PM  
1/7/2021  
yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

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  
TRACK STRUCTURES  
VIADUCT STATION 17285+00 TO 17412+52.05  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44

DRAWING NO.  
ST-J1113

SCALE  
AS SHOWN

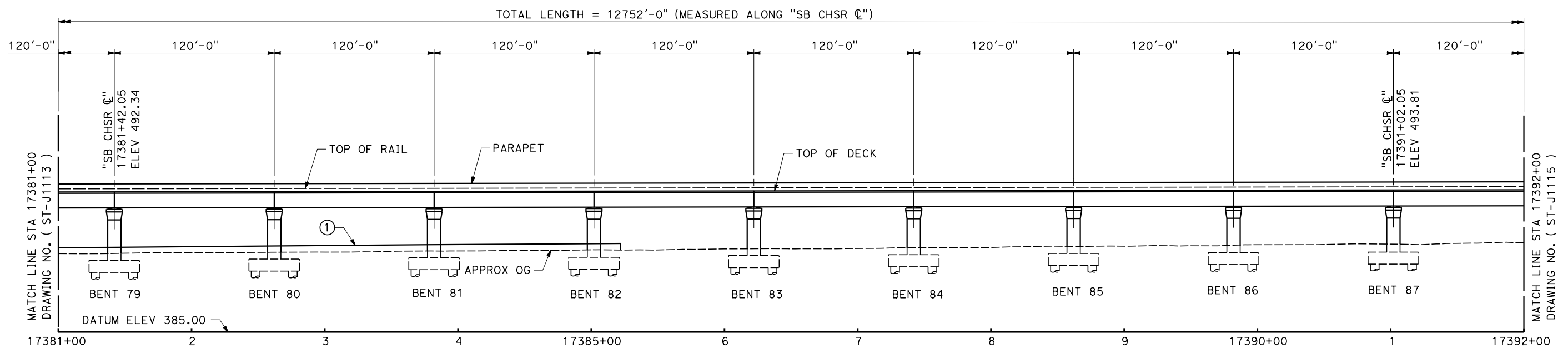
SHEET NO.  
792

17370+41.55 EVC  
ELEV 491.68

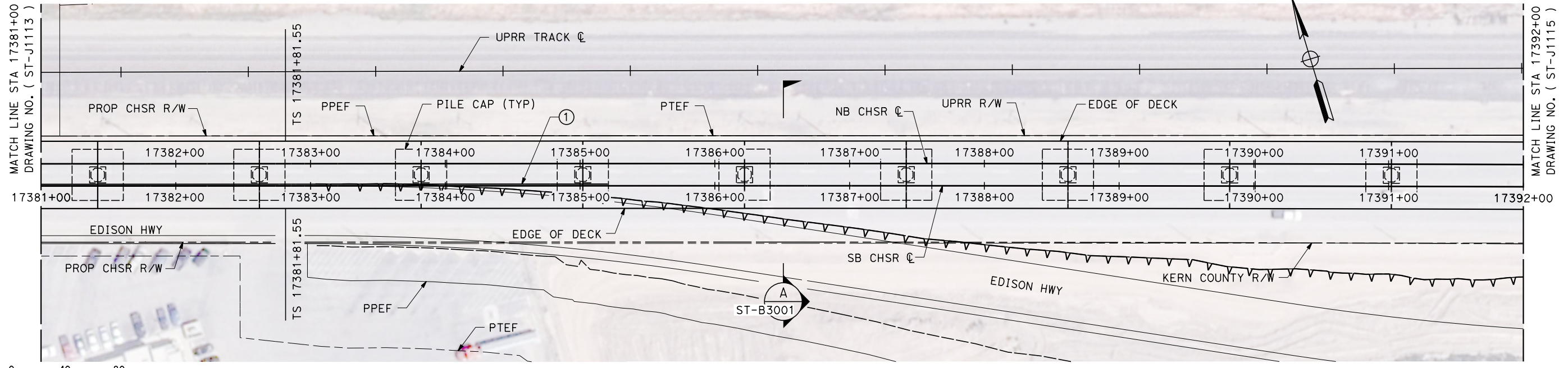
17407+81.55 BVC  
ELEV 496.38

0.15%

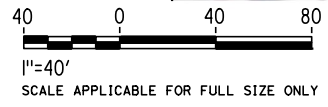
**TOP OF RAIL "SB CHSR C"**  
NO SCALE



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1114  
11:48:41 PM  
1/7/2021  
y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

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  
TRACK STRUCTURES  
VIADUCT STATION 17285+00 TO 17412+52.05  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44

DRAWING NO.  
ST-J1114

SCALE  
AS SHOWN

SHEET NO.  
793

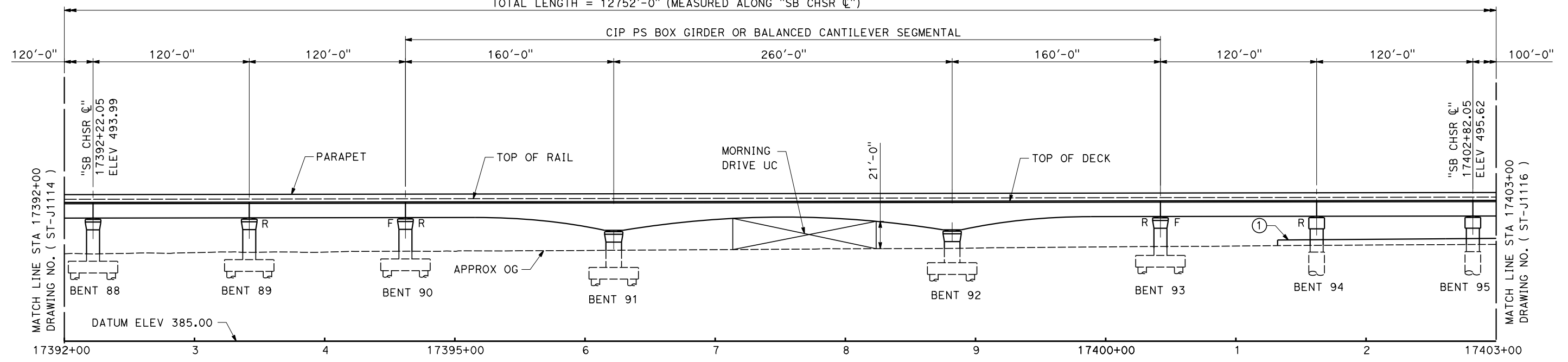
17370+41.55 EVC  
ELEV 491.68

17407+81.55 BVC  
ELEV 496.38

0.15%

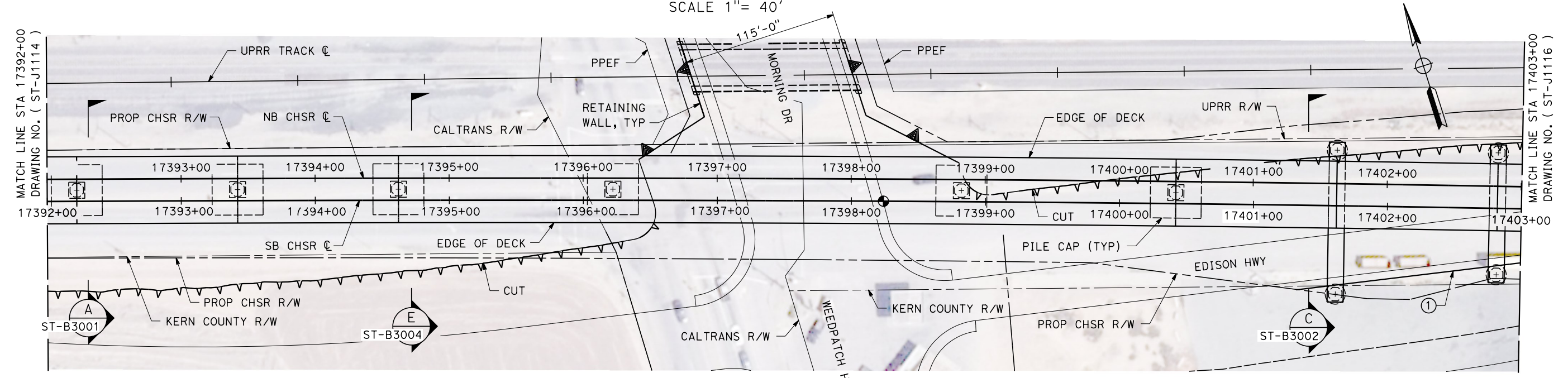
**TOP OF RAIL "SB CHSR ☺"**  
NO SCALE

TOTAL LENGTH = 12752'-0" (MEASURED ALONG "SB CHSR ☺")



**ELEVATION**

SCALE 1" = 40'



**PLAN**

SCALE 1" = 40'



1"=40'  
SCALE APPLICABLE FOR FULL SIZE ONLY

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1115

4:20:41 PM

1/8/2021

y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

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  
TRACK STRUCTURES  
VIADUCT STATION 17285+00 TO 17412+52.05  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44

DRAWING NO.  
ST-J1115

SCALE  
AS SHOWN

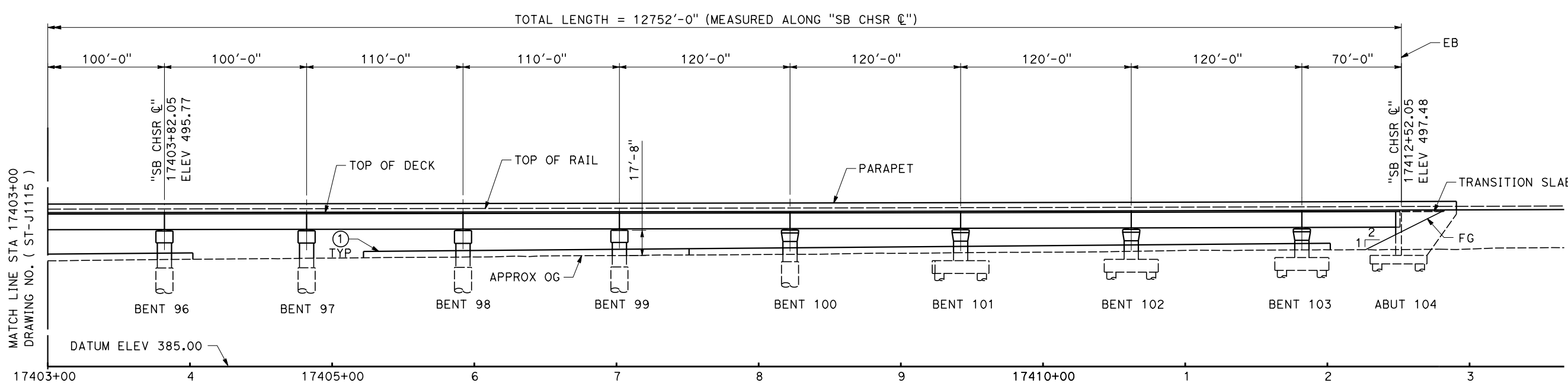
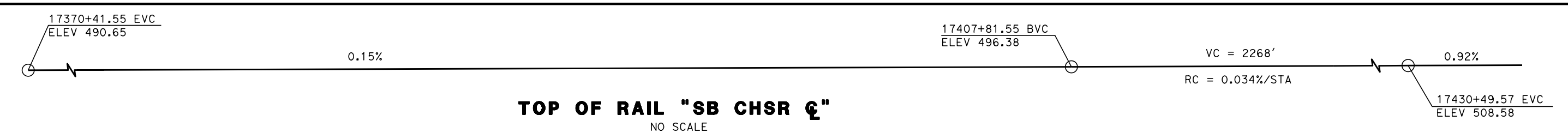
SHEET NO.  
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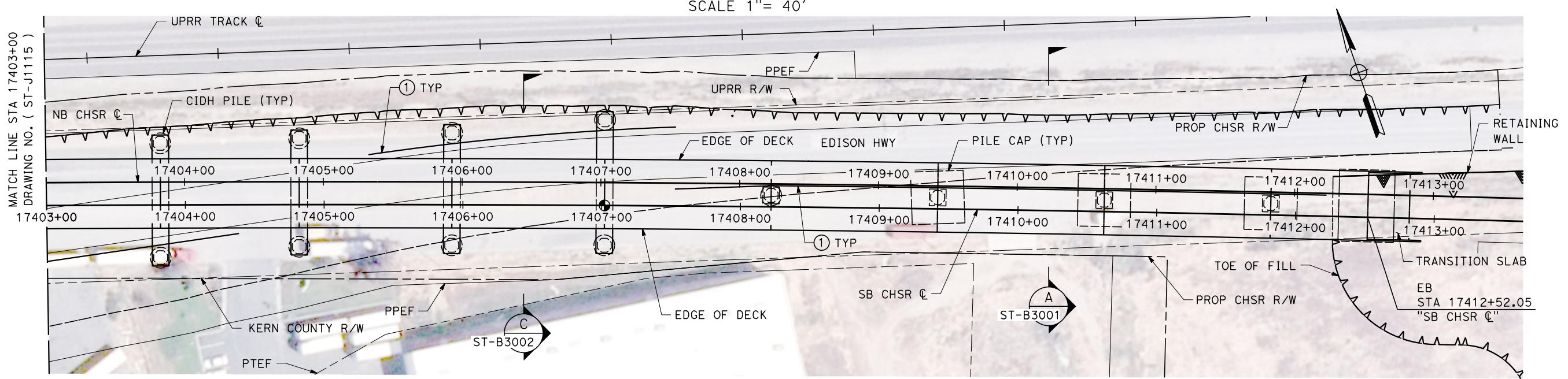
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1/7/2021

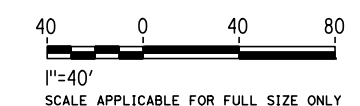
yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
VIADUCT STATION 17285+00 TO 17412+52.05  
PLAN AND ELEVATION

CONTRACT NO.  
**HSR 13-44**  
DRAWING NO.  
**ST-J1116**  
SCALE  
**AS SHOWN**  
SHEET NO.  
**795**

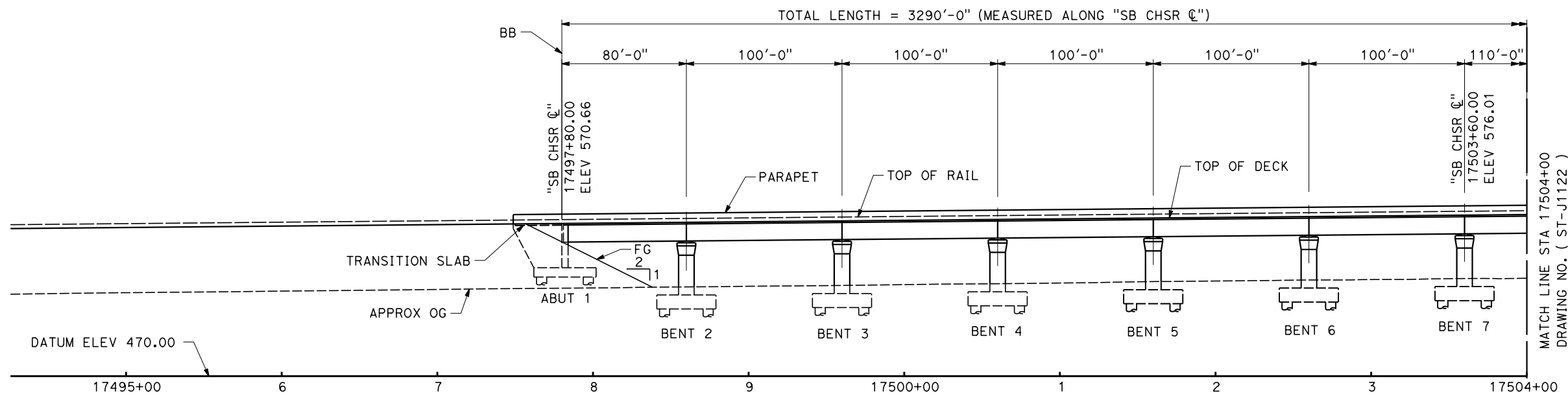


17430+49.57 EVC  
ELEV 508.58

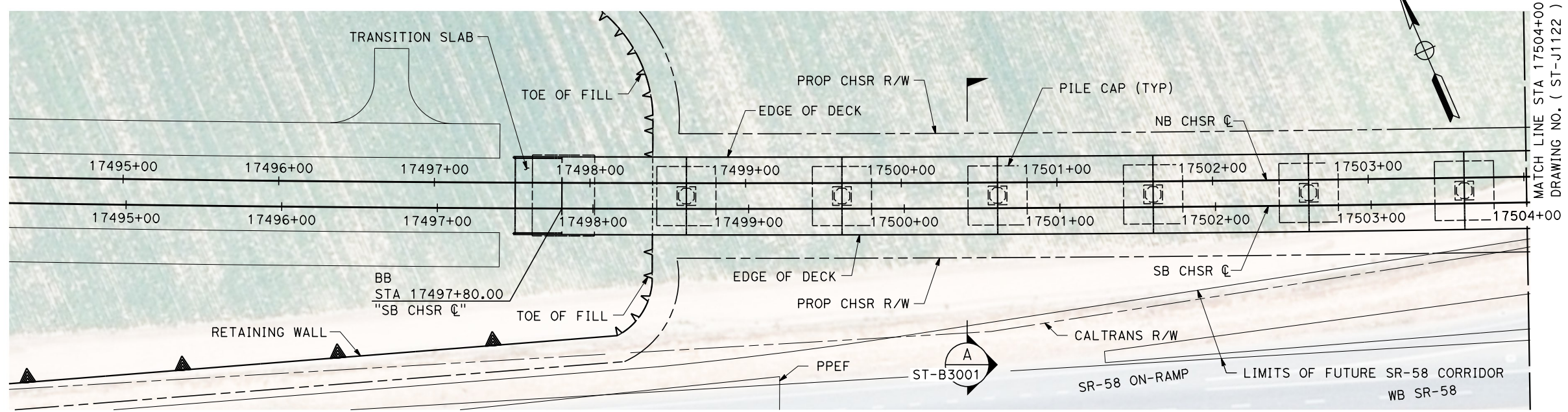
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17616+98.46 BVC  
ELEV 680.59

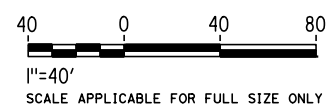
**TOP OF RAIL "SB CHSR C"**  
NO SCALE



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1121

11:48:47 PM

1/7/2021

y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

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  
TRACK STRUCTURES  
VIADUCT STATION 17497+80 TO 17530+70  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44

DRAWING NO.  
ST-J1121

SCALE  
AS SHOWN

SHEET NO.  
797





17430+49.57 EVC  
ELEV 508.58

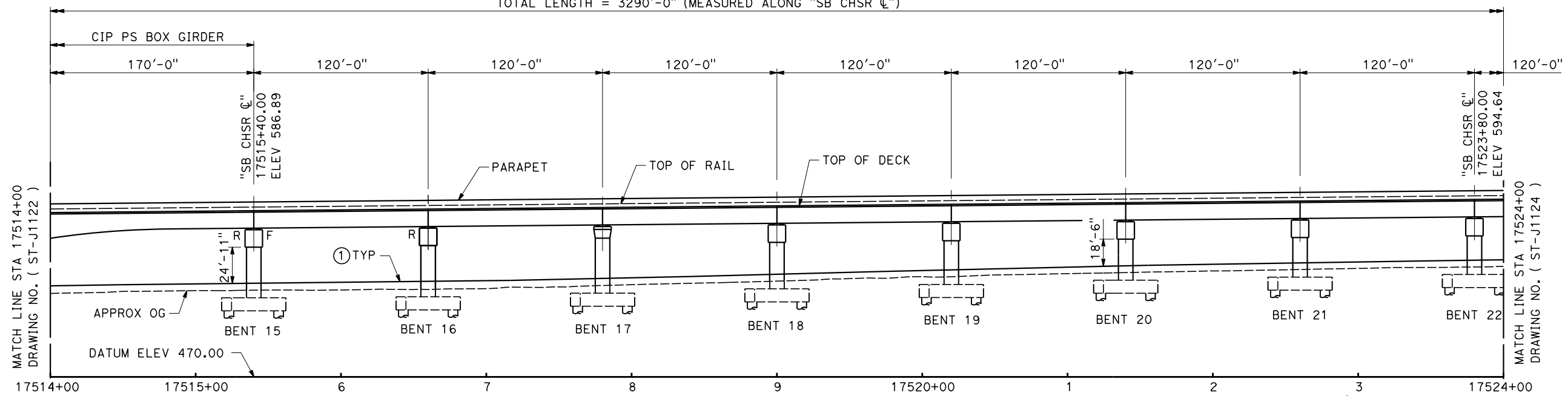
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17616+98.46 BVC  
ELEV 680.59

**TOP OF RAIL "SB CHSR ☉"**

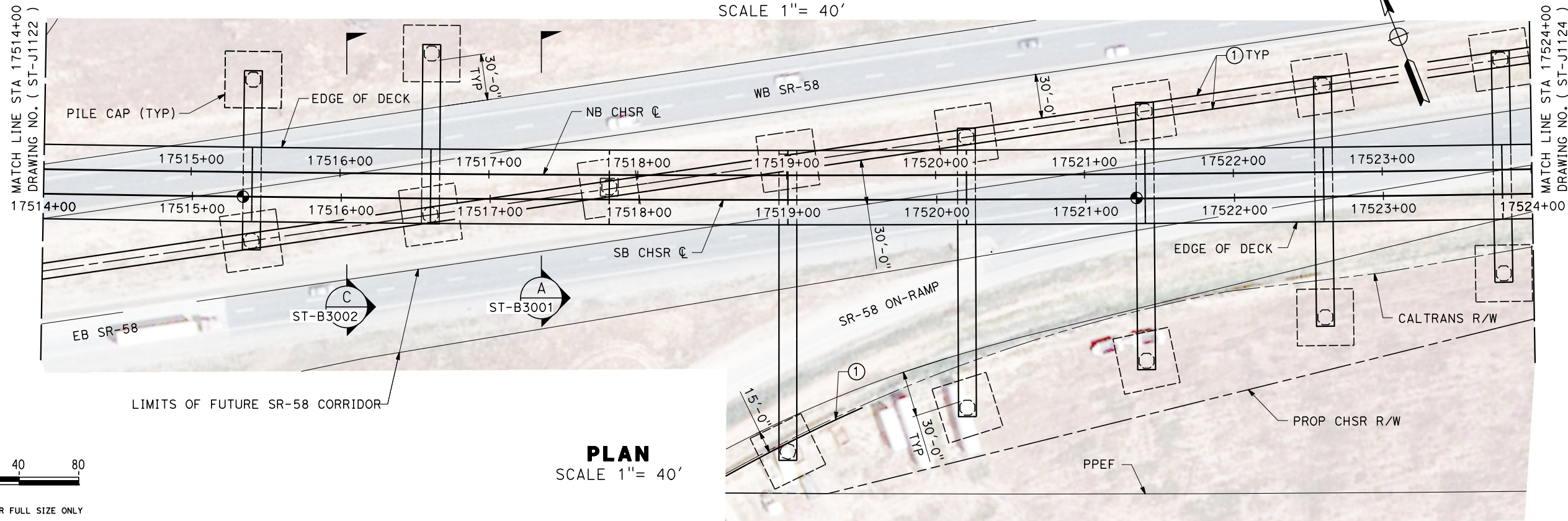
NO SCALE

TOTAL LENGTH = 3290'-0" (MEASURED ALONG "SB CHSR ☉")



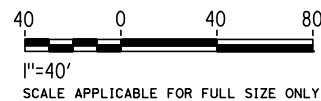
**ELEVATION**

SCALE 1" = 40'



**PLAN**

SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1123

11:48:44 PM

1/7/2021

yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

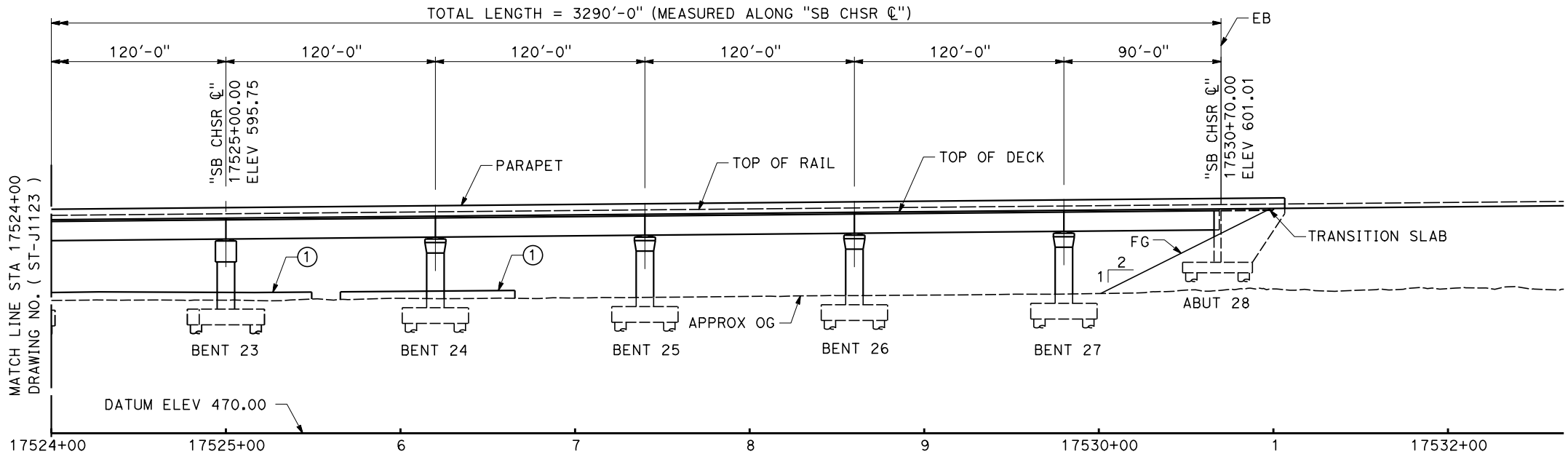
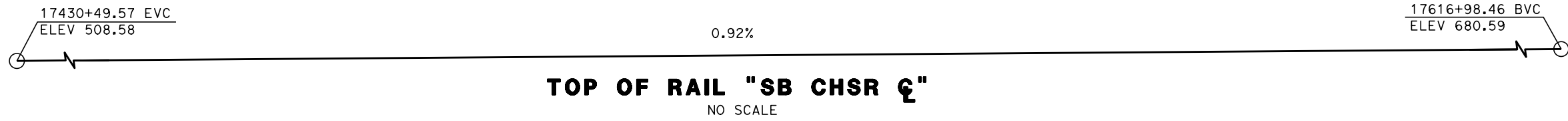
**RECORD SET**  
**PEPD**  
**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**



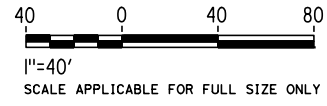
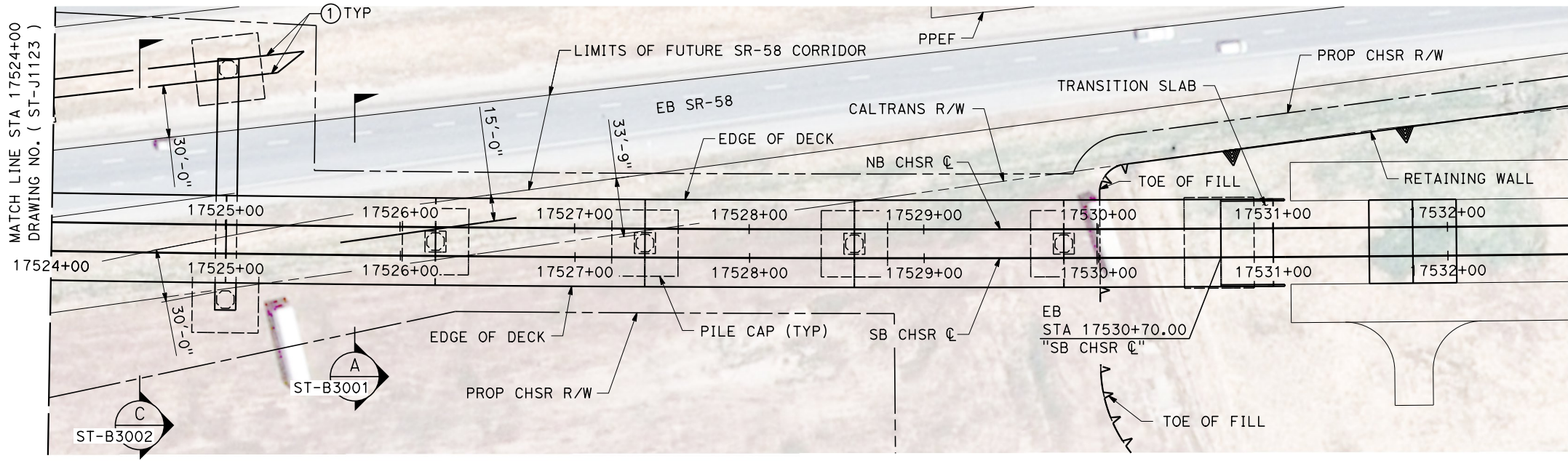
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVE 2  
TRACK STRUCTURES  
VIADUCT STATION 17497+80 TO 17530+70  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44  
DRAWING NO.  
ST-J1123  
SCALE  
AS SHOWN  
SHEET NO.  
799

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1124 11:40:51 PM 1/7/2021 yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
VIADUCT STATION 17497+80 TO 17530+70  
PLAN AND ELEVATION

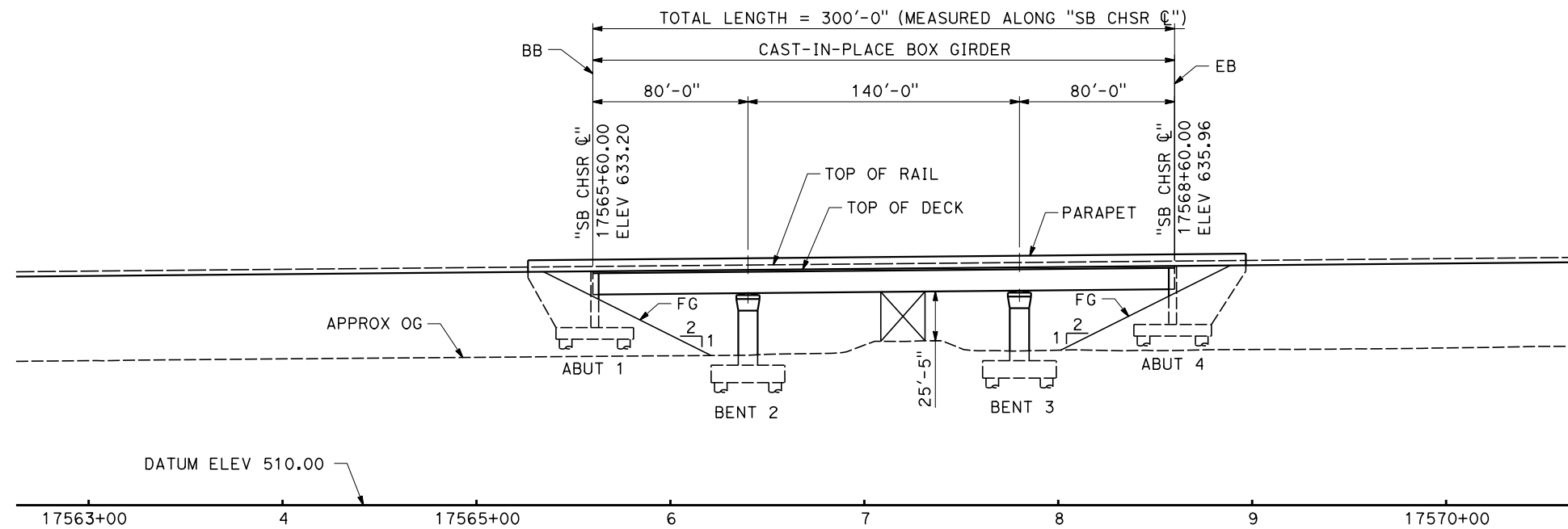
CONTRACT NO.  
HSR 13-44  
DRAWING NO.  
ST-J1124  
SCALE  
AS SHOWN  
SHEET NO.  
800

17430+49.57 EVC  
ELEV 508.58

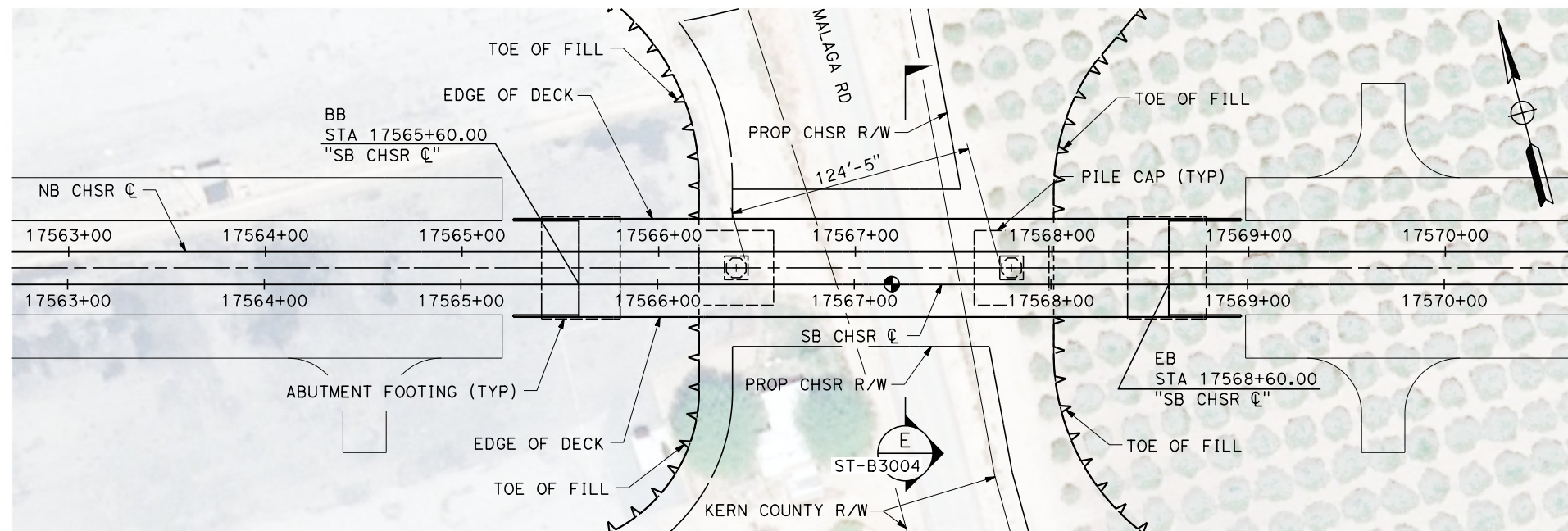
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17616+98.46 BVC  
ELEV 680.59

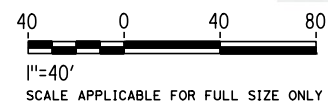
**TOP OF RAIL "SB CHSR C"**  
NO SCALE



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



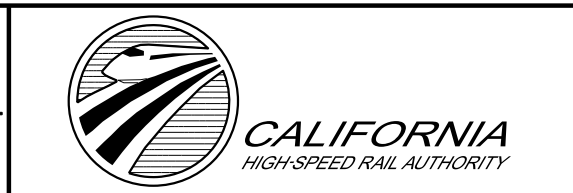
Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1125 11:48:48 PM 1/7/2021 yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

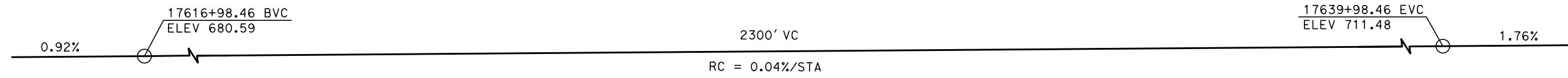
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**CONSTRUCTION**



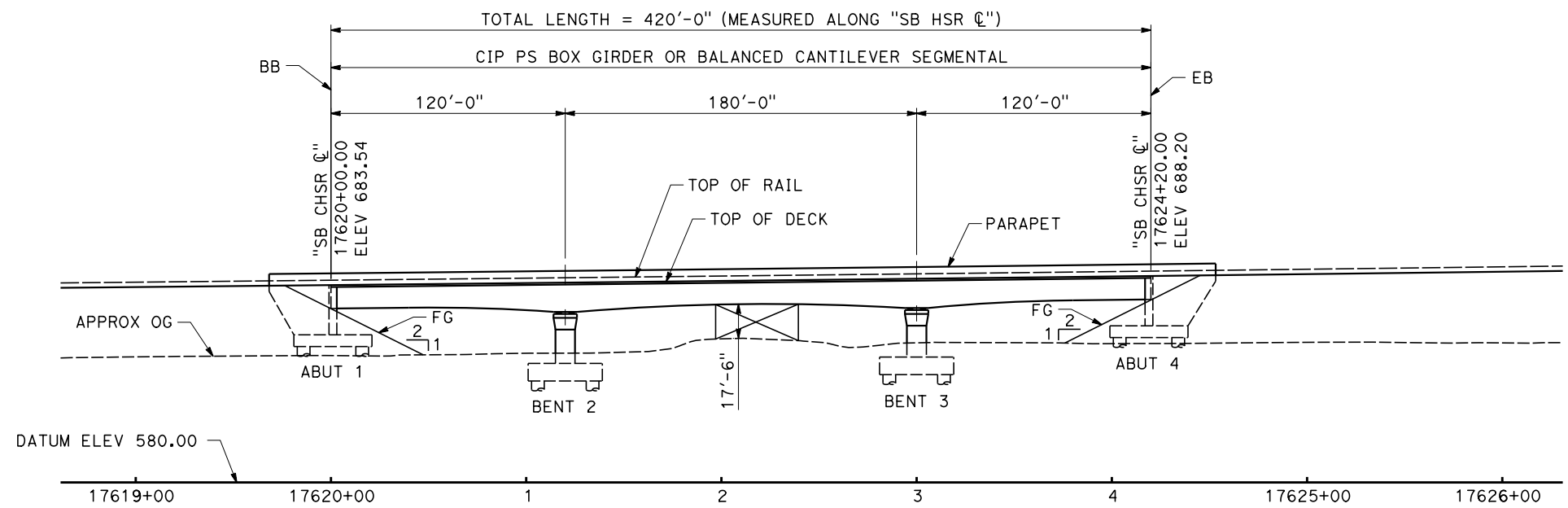
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVE 2  
TRACK STRUCTURES  
MALAGA ROAD UNDERPASS  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44  
DRAWING NO.  
ST-J1125  
SCALE  
AS SHOWN  
SHEET NO.  
801

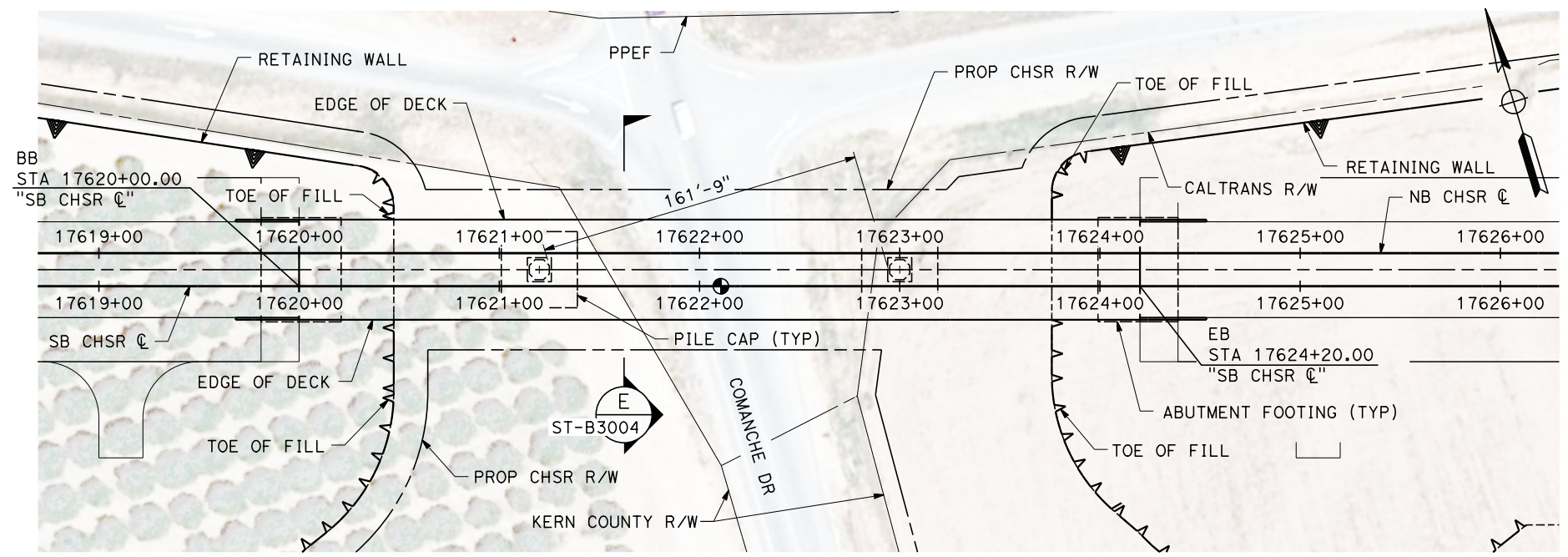
Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1126 11:40:40 PM 1/7/2021 yihong.wang@tylin.com



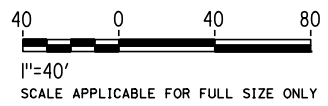
**TOP OF RAIL "SB CHSR C"**  
NO SCALE



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

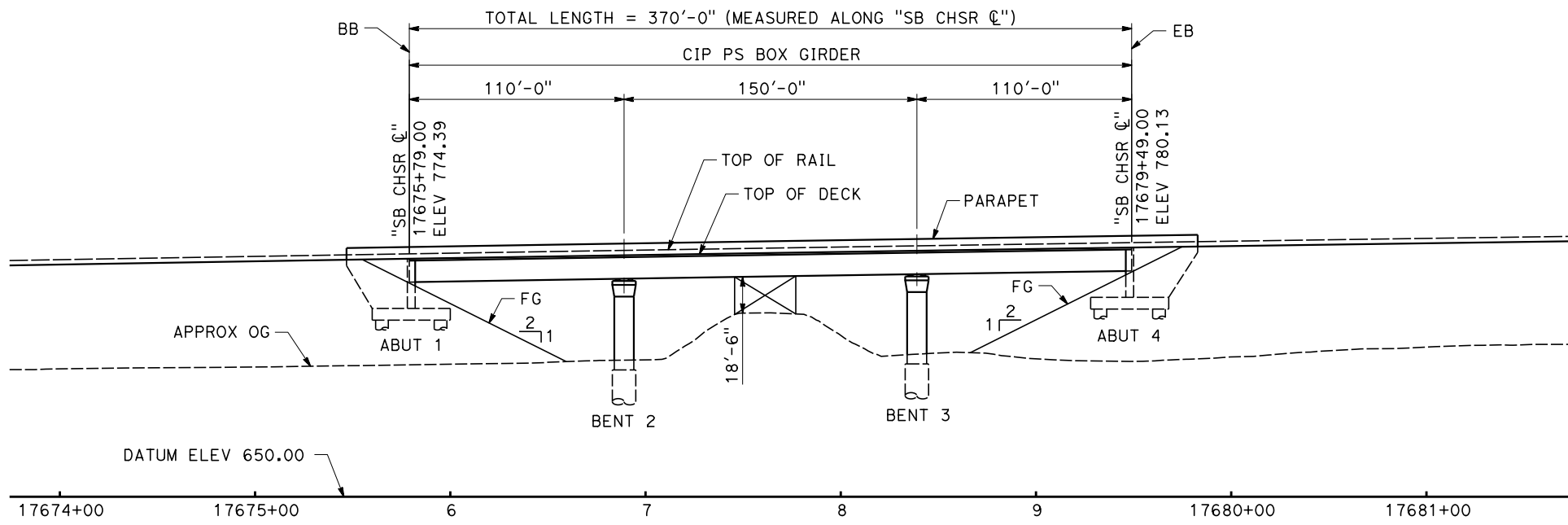
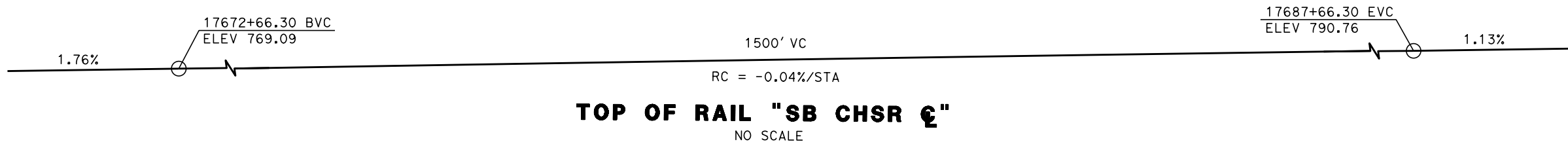
DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

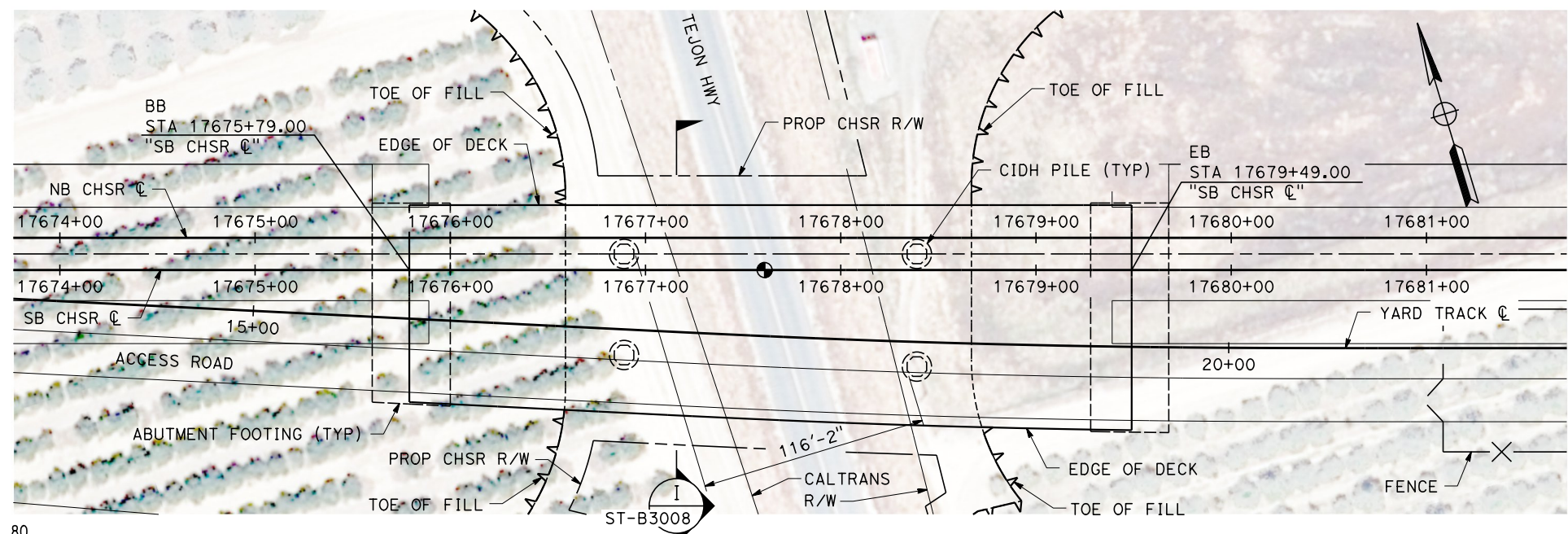


**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVE 2  
TRACK STRUCTURES  
COMANCHE DRIVE UNDERPASS  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44  
DRAWING NO.  
ST-J1126  
SCALE  
AS SHOWN  
SHEET NO.  
802



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1127  
11:49:12 PM  
1/7/2021  
yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

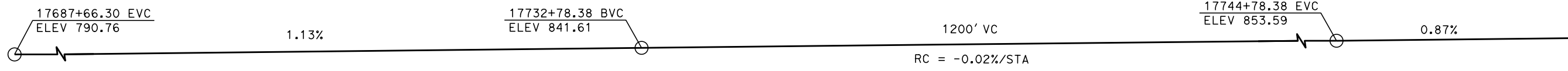
**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**

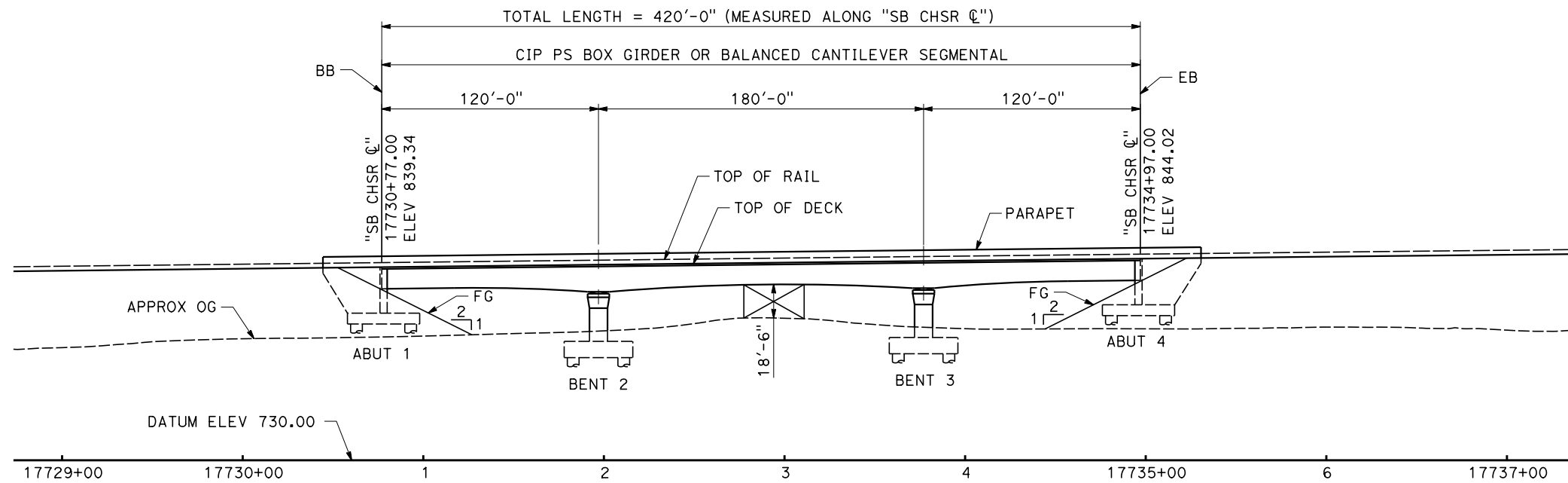


**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVE 2  
TRACK STRUCTURES  
TEJON HIGHWAY UNDERPASS  
PLAN AND ELEVATION

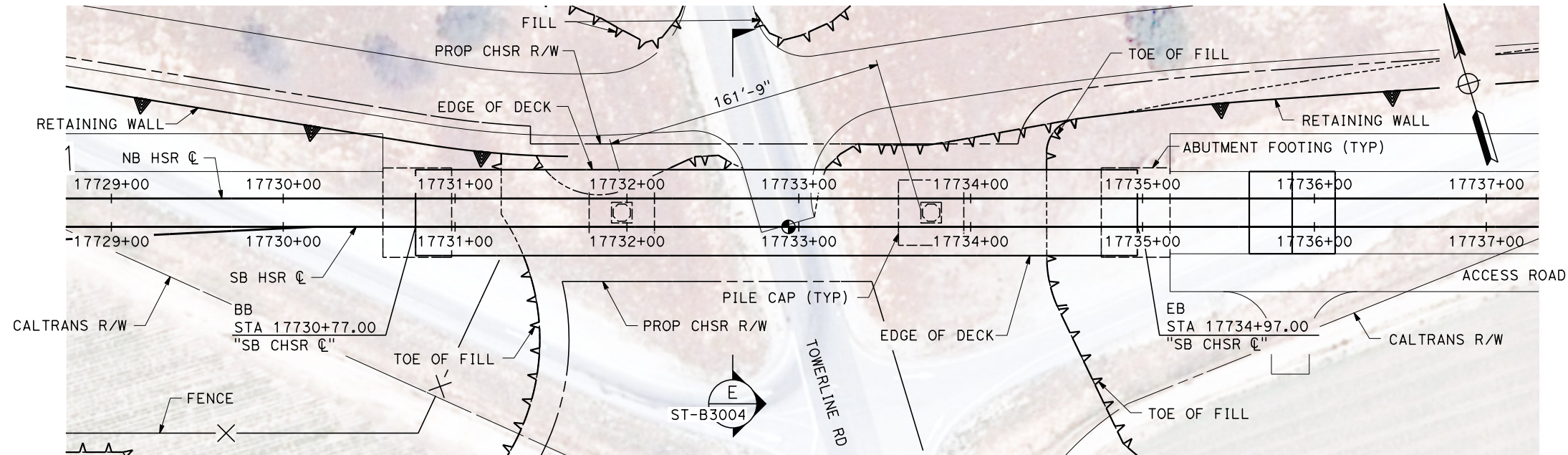
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HSR 13-44  
DRAWING NO.  
ST-J1127  
SCALE  
AS SHOWN  
SHEET NO.  
803



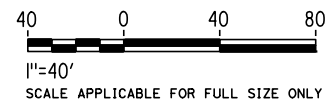
**TOP OF RAIL "SB CHSR ☉"**  
NO SCALE



**ELEVATION**  
SCALE 1"= 40'



**PLAN**  
SCALE 1"= 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1128  
1/7/2021 11:40:47 PM  
yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

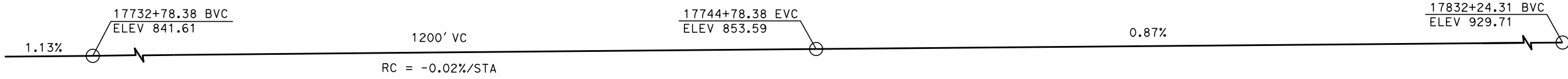
**NOT FOR**  
**CONSTRUCTION**



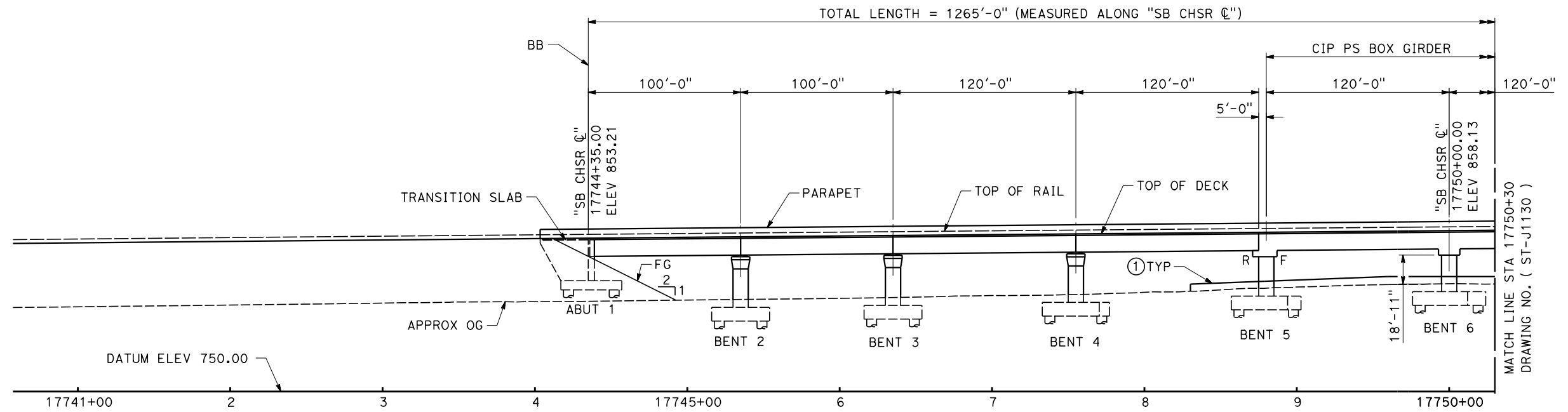
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVE 2  
TRACK STRUCTURES  
TOWERLINE ROAD UNDERPASS  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44  
DRAWING NO.  
ST-J1128  
SCALE  
AS SHOWN  
SHEET NO.  
804

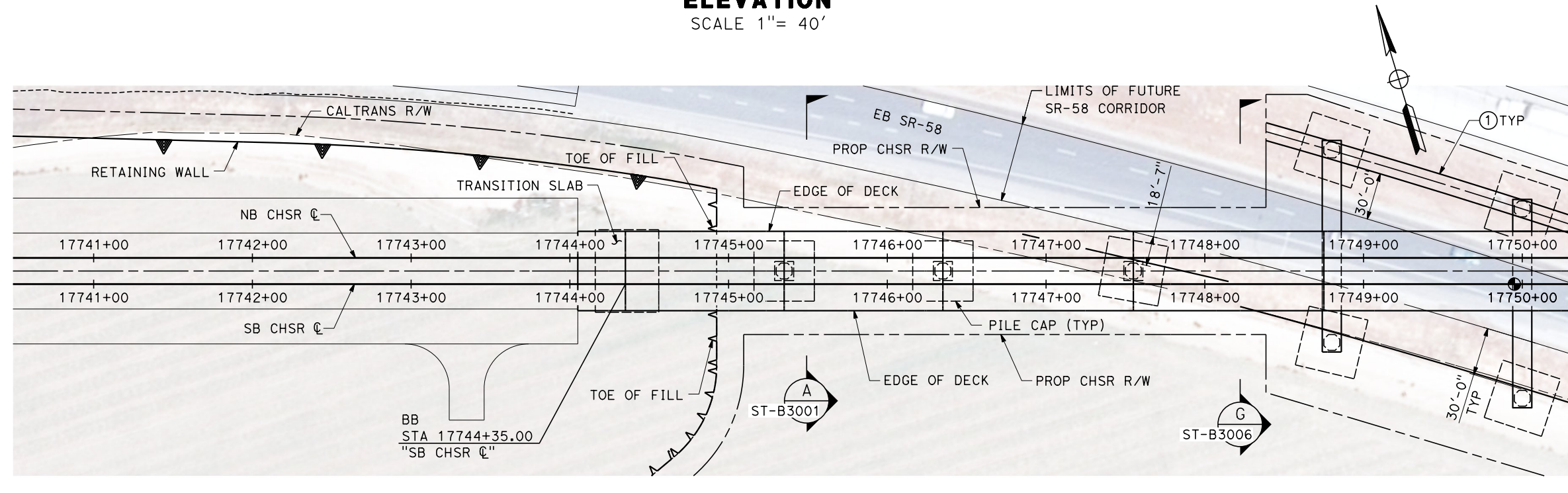
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 11:36:52 PM  
 1/7/2021  
 yihong.wang@tylin.com



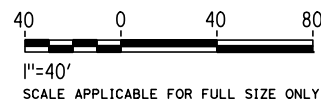
**TOP OF RAIL "SB CHSR C"**  
NO SCALE



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
 DRAWN BY  
**Y. WANG**  
 CHECKED BY  
**R. BARTON**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/29/2021**

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

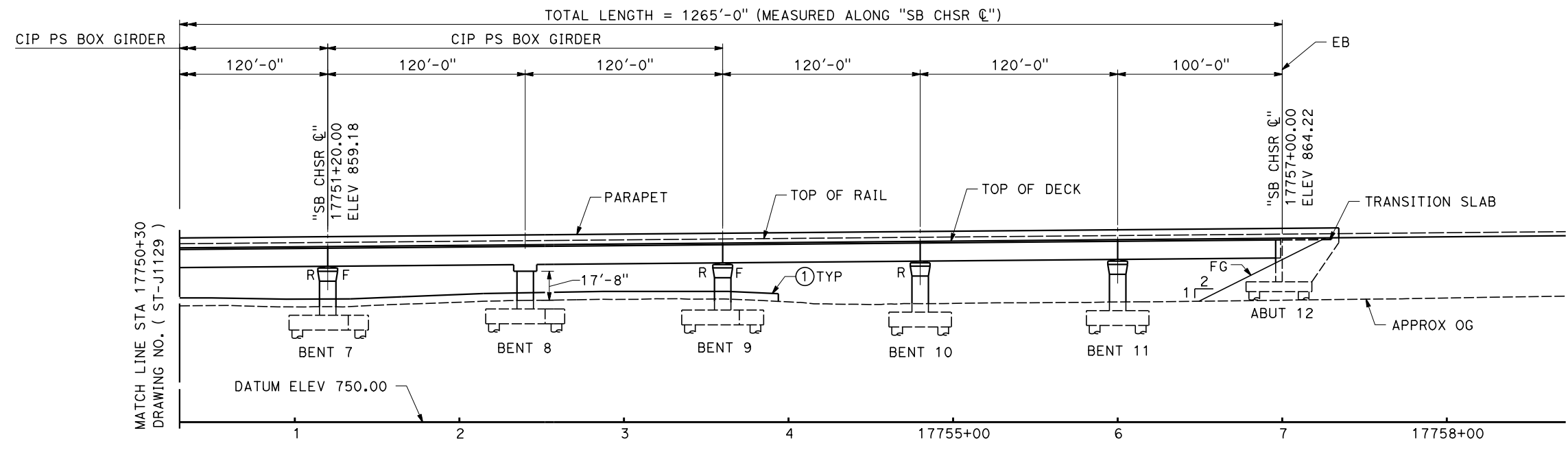
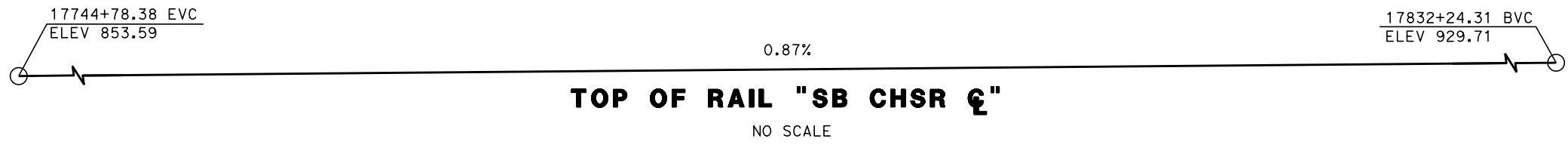
**TYLIN INTERNATIONAL**



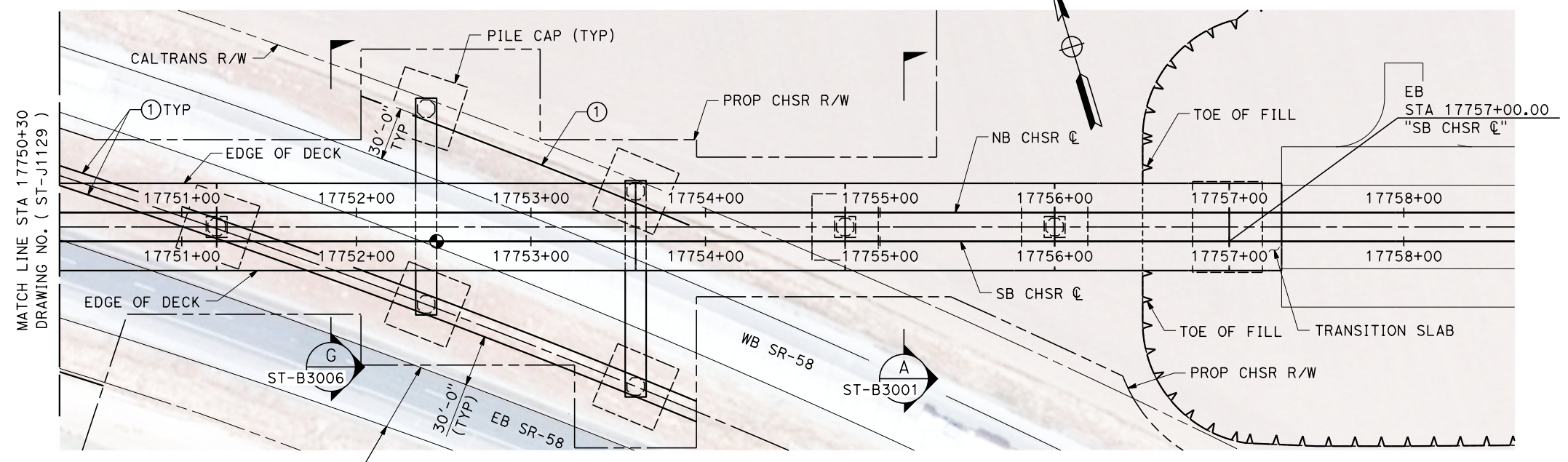
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
 ALTERNATIVE 2  
 TRACK STRUCTURES  
 SR 58 VIADUCT  
 PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44  
 DRAWING NO.  
ST-J1129  
 SCALE  
AS SHOWN  
 SHEET NO.  
805

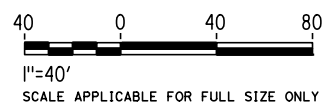




**ELEVATION**  
SCALE 1"= 40'



**PLAN**  
SCALE 1"= 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1130  
11:37:03 PM  
1/7/2021  
yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
SR 58 VIADUCT  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44

DRAWING NO.  
ST-J1130

SCALE  
AS SHOWN

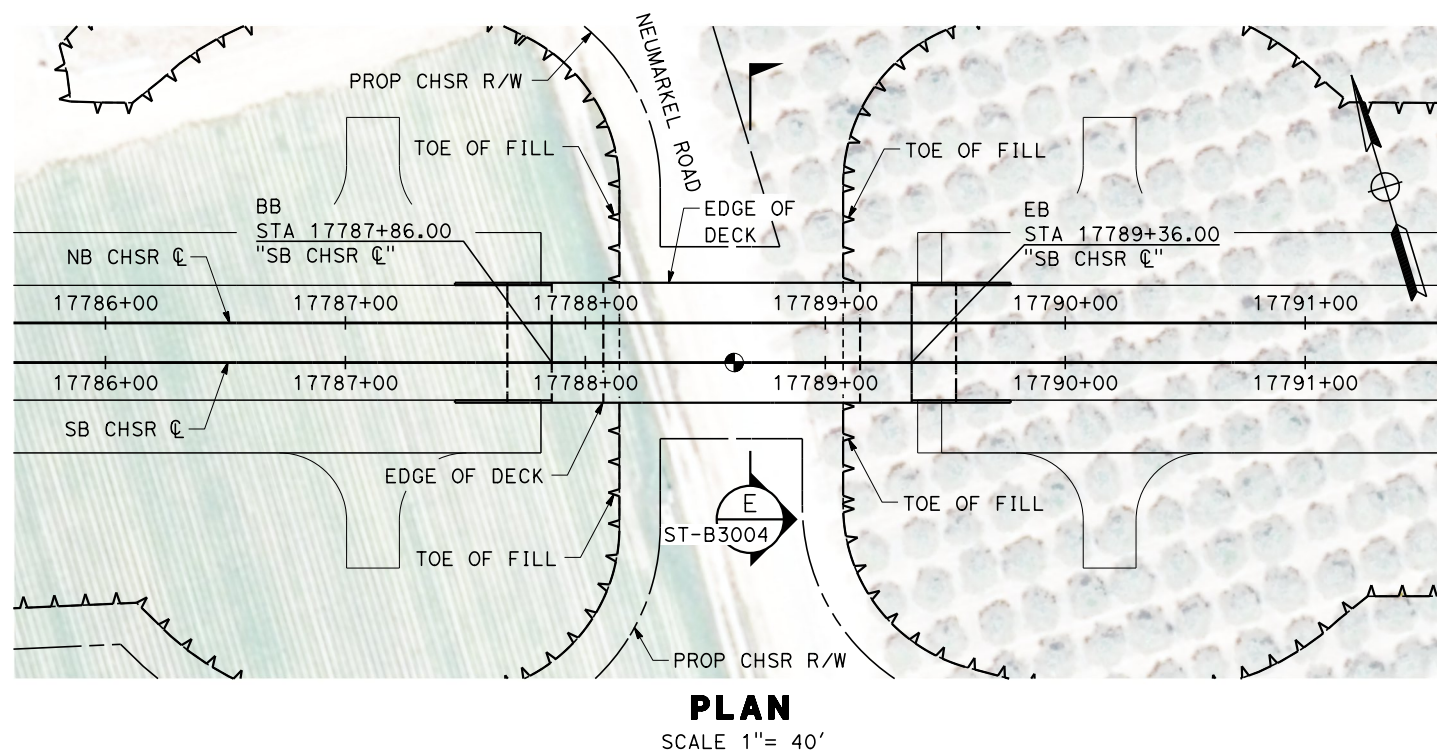
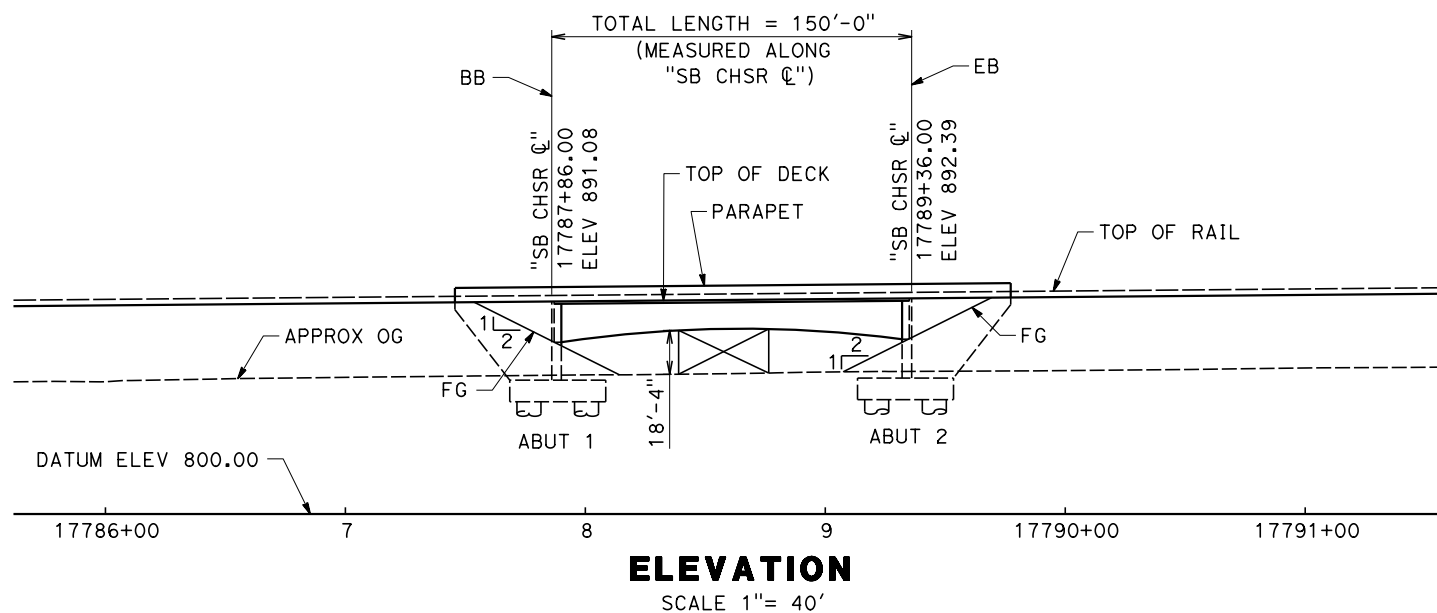
SHEET NO.  
806

17744+78.38 EVC  
ELEV 853.59

0.87%

17832+24.31 BVC  
ELEV 929.71

**TOP OF RAIL "SB CHSR ☉"**  
NO SCALE



40 0 40 80

1"=40'  
SCALE APPLICABLE FOR FULL SIZE ONLY

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1131 11:39:03 PM 1/7/2021 y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**

**TYLIN INTERNATIONAL**



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

ALTERNATIVE 2  
TRACK STRUCTURES  
NEUMARKEL ROAD UNDERPASS  
PLAN AND ELEVATION

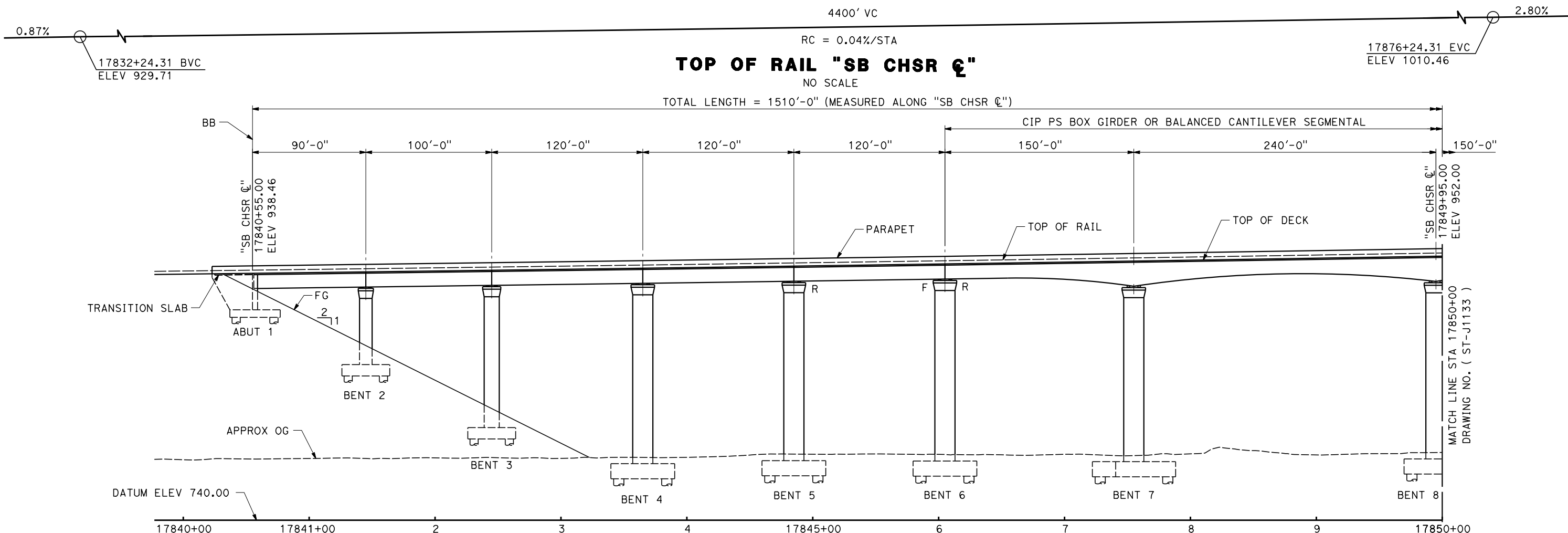
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HSR13-44

DRAWING NO.  
ST-J1131

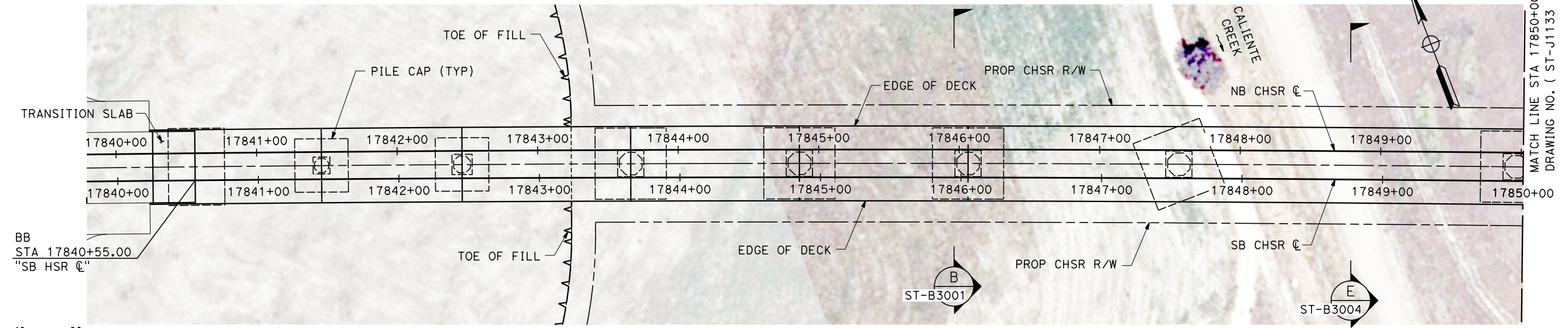
SCALE  
AS SHOWN

SHEET NO.  
807

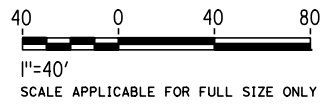
Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1132 11:36:53 PM 1/7/2021 yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

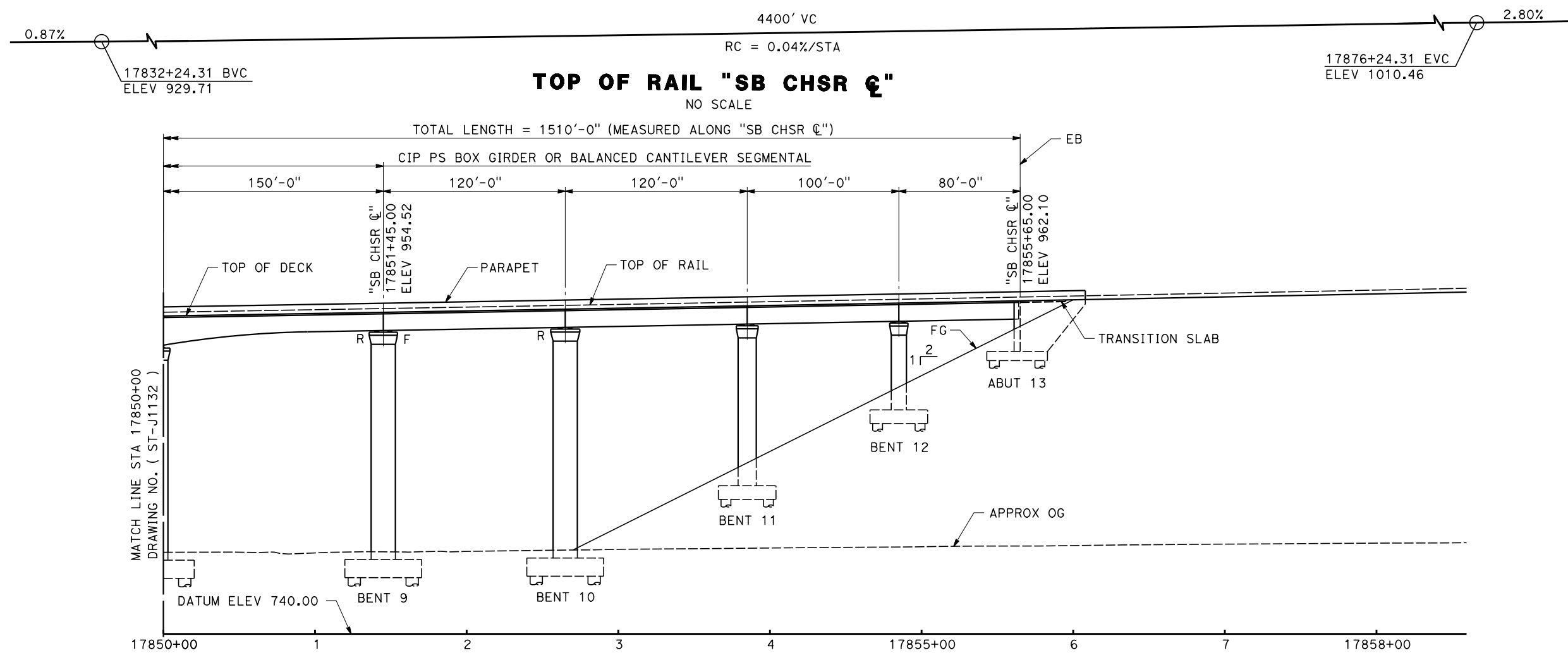
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CONSTRUCTION**



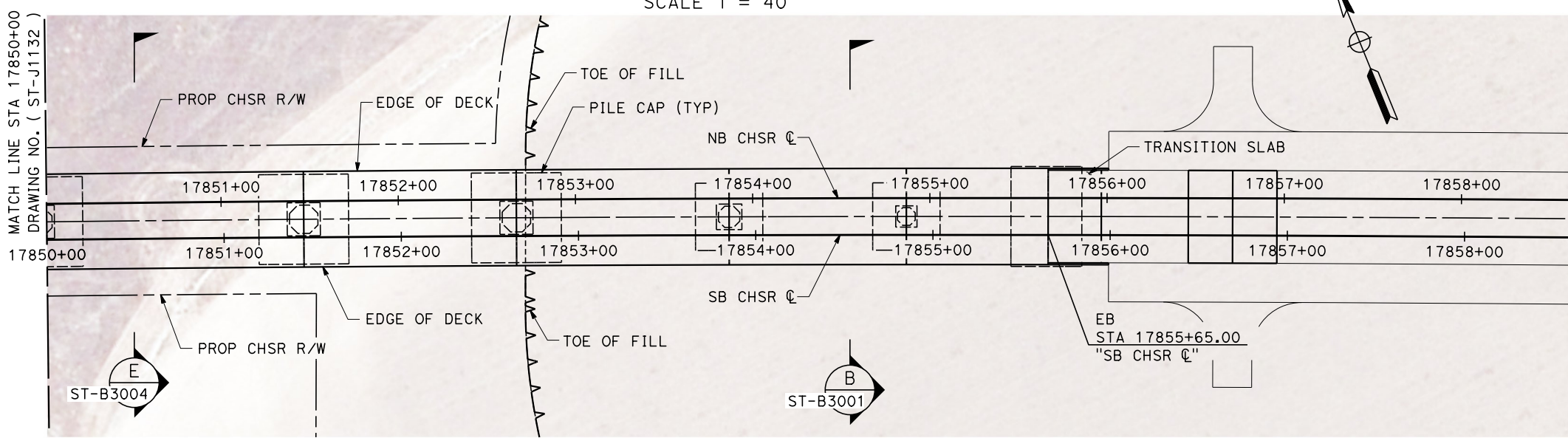
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 2  
TRACK STRUCTURES  
VIADUCT STATION 17840+55 TO 17855+65  
PLAN AND ELEVATION

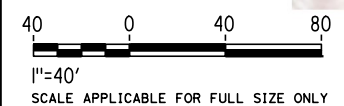
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HSR 13-44  
DRAWING NO.  
ST-J1132  
SCALE  
AS SHOWN  
SHEET NO.  
808



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1133

11:40:36 PM

1/7/2021

yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

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  
TRACK STRUCTURES  
VIADUCT STATION 17840+55 TO 17855+65  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 13-44

DRAWING NO.  
ST-J1133

SCALE  
AS SHOWN

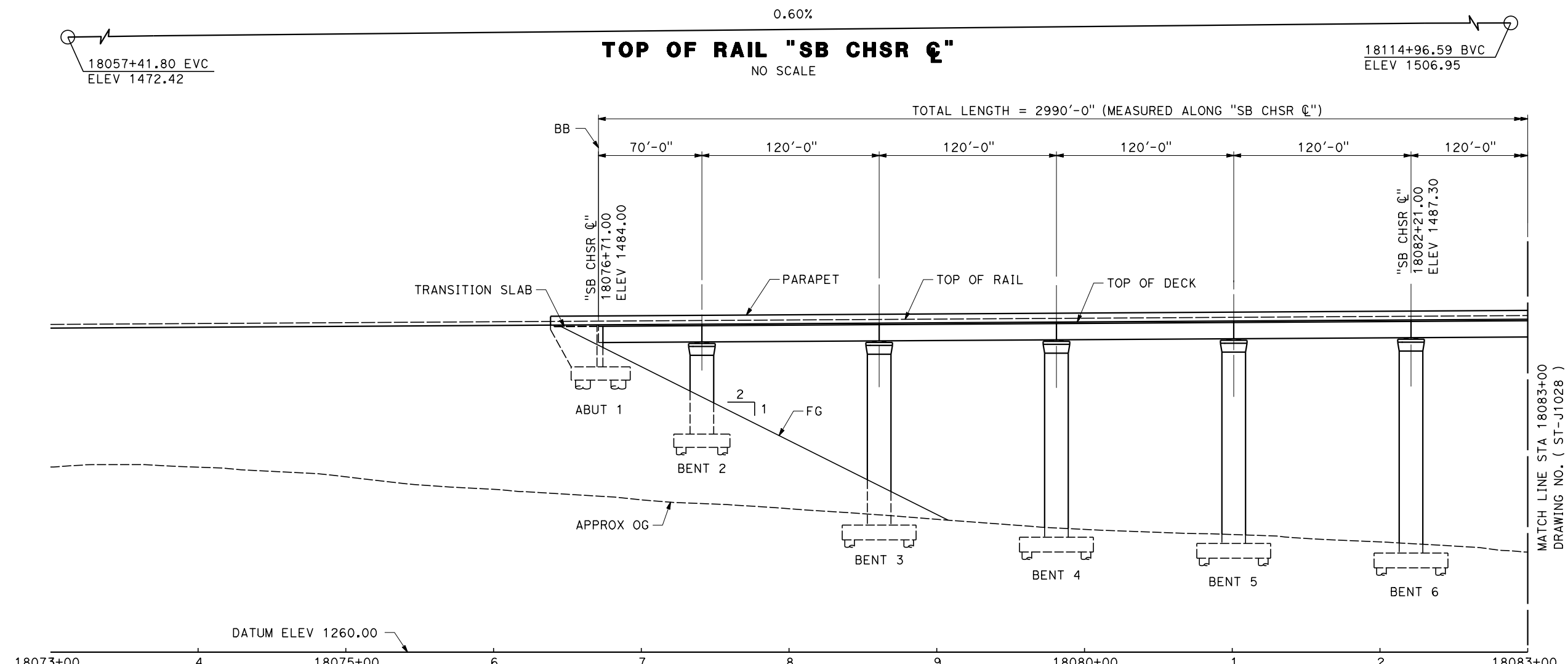
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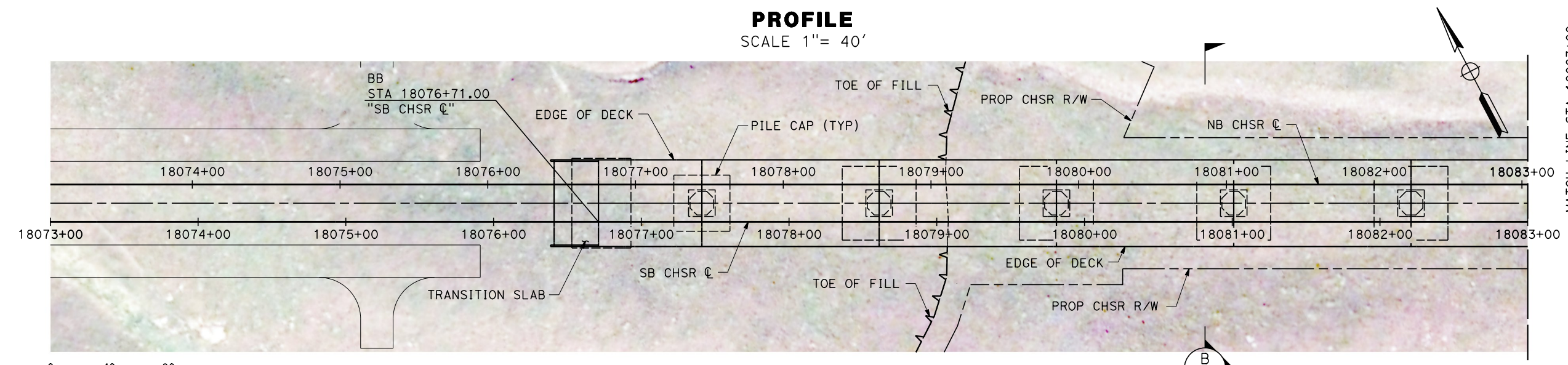
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1/7/2021

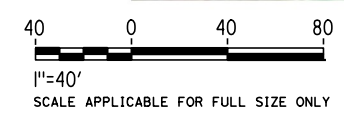
yihong.wang@tylin.com



**PROFILE**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**

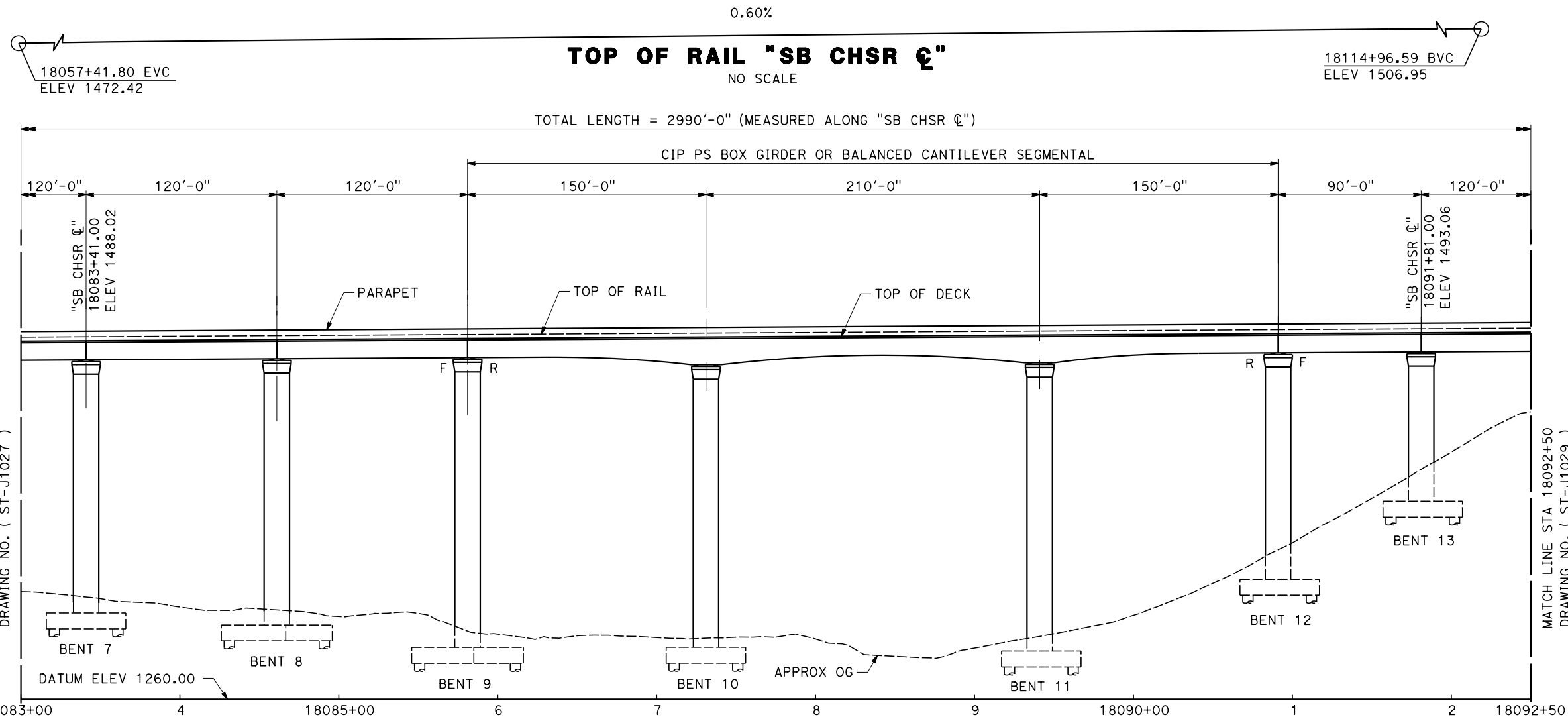


**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,3,5  
TRACK STRUCTURES  
VIADUCT STATION 18076+71 TO 18106+61  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1027  
SCALE  
AS SHOWN  
SHEET NO.  
810

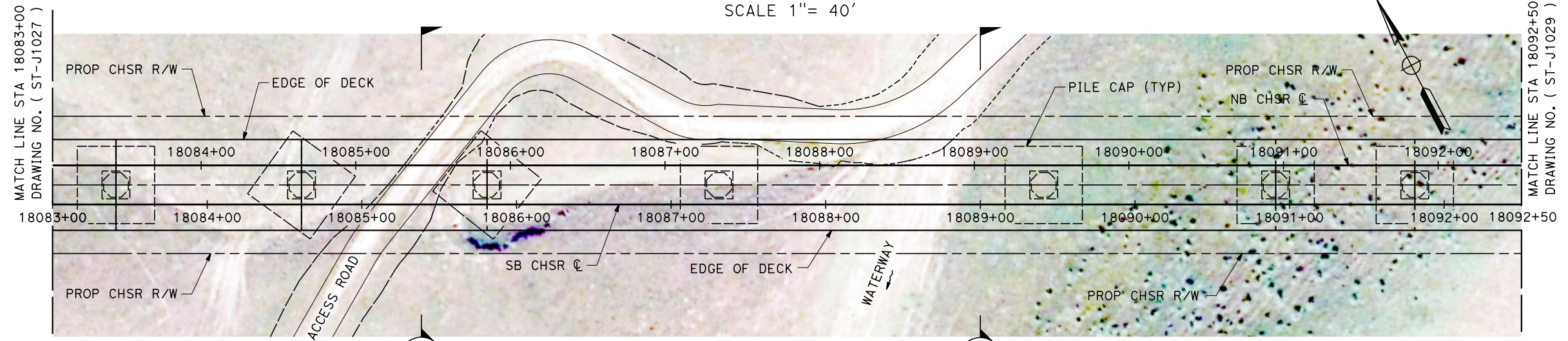
MATCH LINE STA 18083+00  
DRAWING NO. ( ST-J1028 )

MATCH LINE STA 18083+00  
DRAWING NO. ( ST-J1028 )



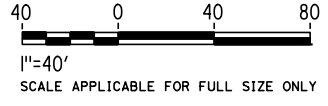
**PROFILE**

SCALE 1" = 40'



**PLAN**

SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1028

3:01:22 PM

1/7/2021

y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

**RECORD SET**

**PEPD**

**SUBMITTAL**

**NOT FOR**

**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**

**BAKERSFIELD TO PALMDALE**

ALTERNATIVES 1,2,3,5

TRACK STRUCTURES

VIADUCT STATION 18076+71 TO 18106+61

PLAN AND ELEVATION

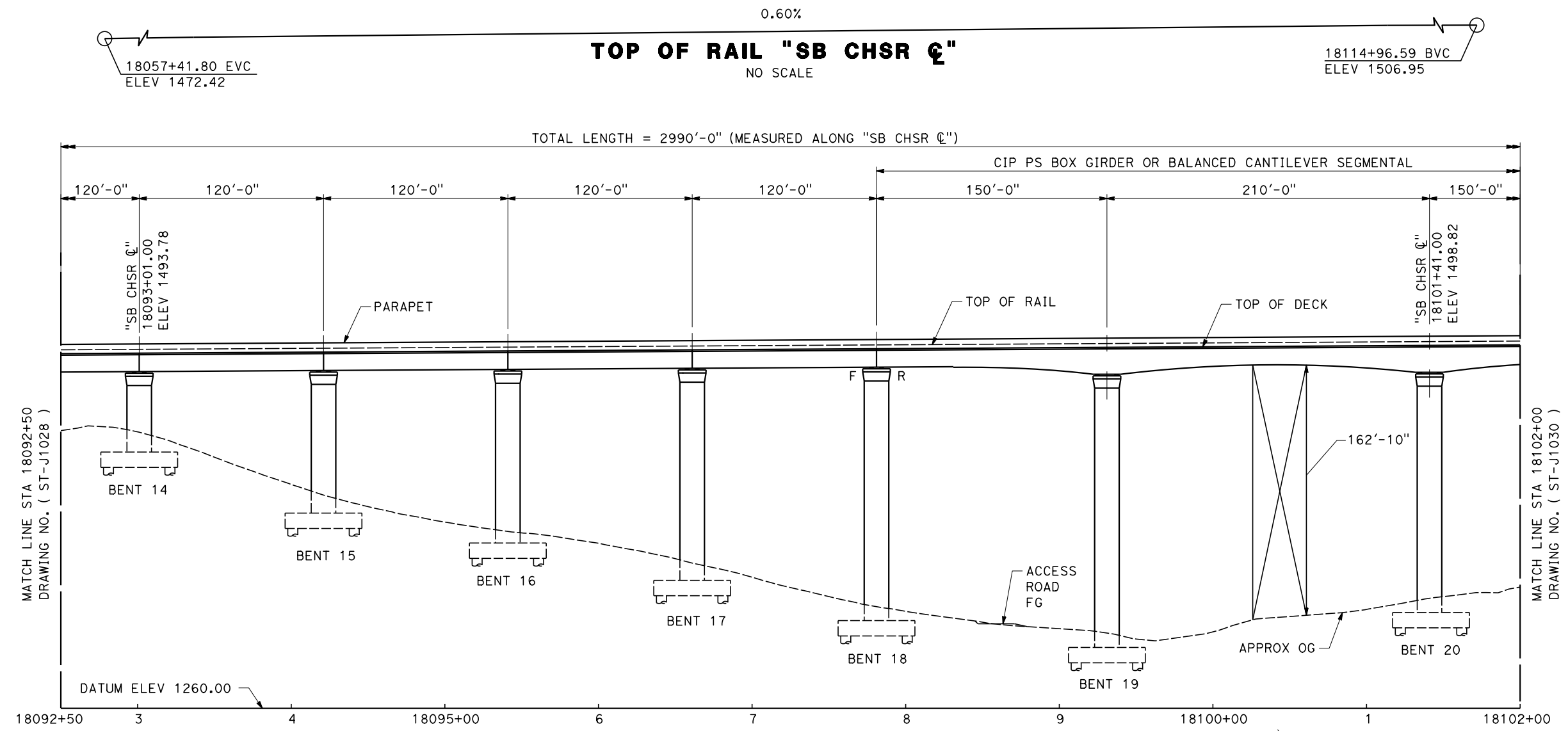
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DRAWING NO.  
ST-J1028

SCALE  
AS SHOWN

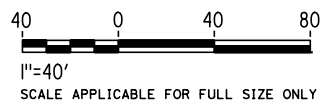
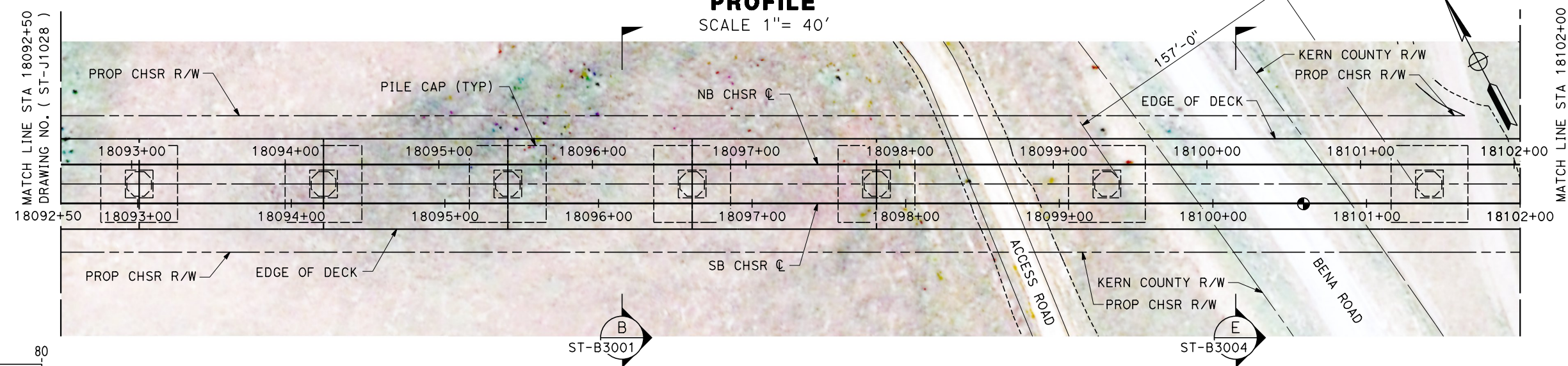
SHEET NO.  
811

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1029 3:01:19 PM 1/7/2021 yihong.wang@tylin.com



**PROFILE**

SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

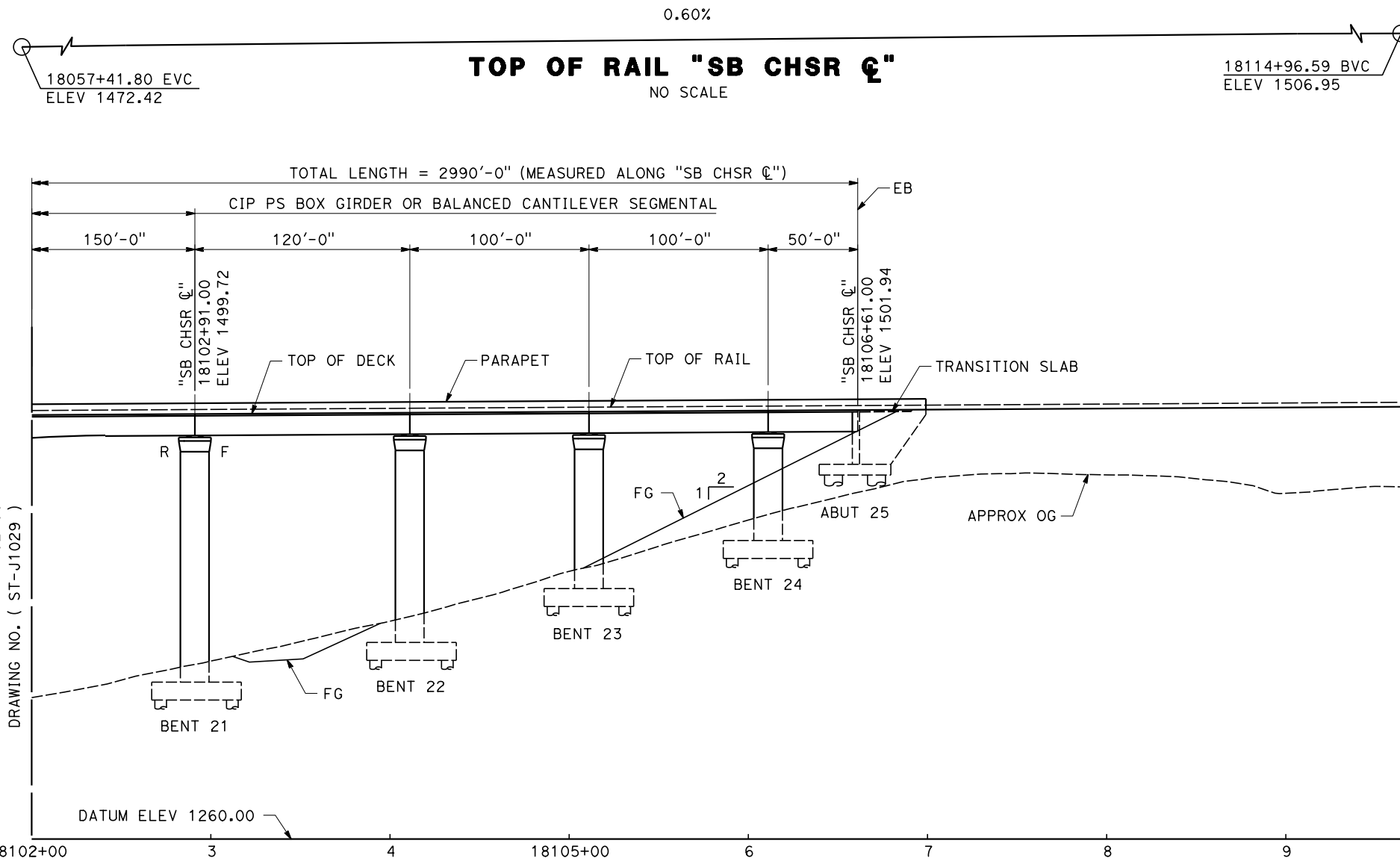
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**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**

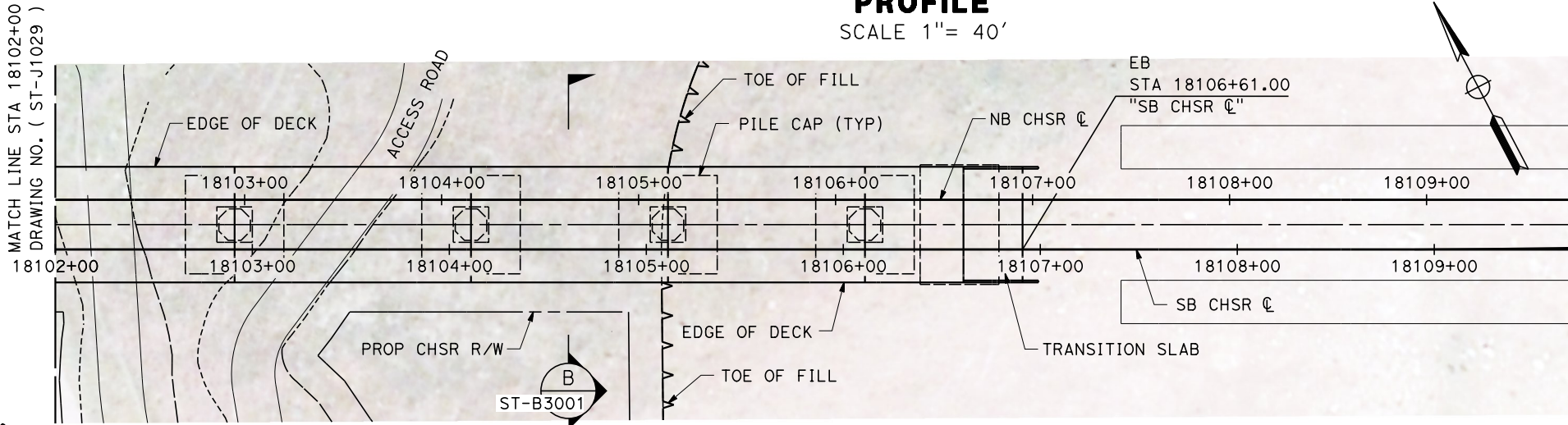


**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,3,5  
TRACK STRUCTURES  
VIADUCT STATION 18076+71 TO 18106+61  
PLAN AND ELEVATION

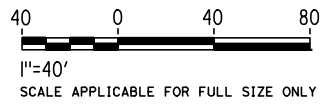
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HSR13-44  
DRAWING NO.  
ST-J1029  
SCALE  
AS SHOWN  
SHEET NO.  
812



**PROFILE**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206.00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1030  
3:01:31 PM  
1/7/2021  
y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,3,5  
TRACK STRUCTURES  
VIADUCT STATION 18076+71 TO 18106+61  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1030  
SCALE  
AS SHOWN  
SHEET NO.  
813

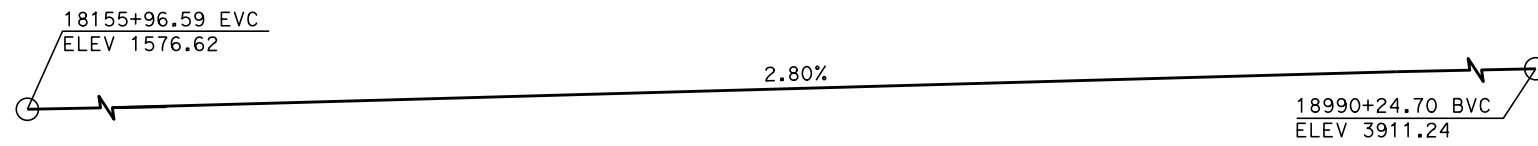


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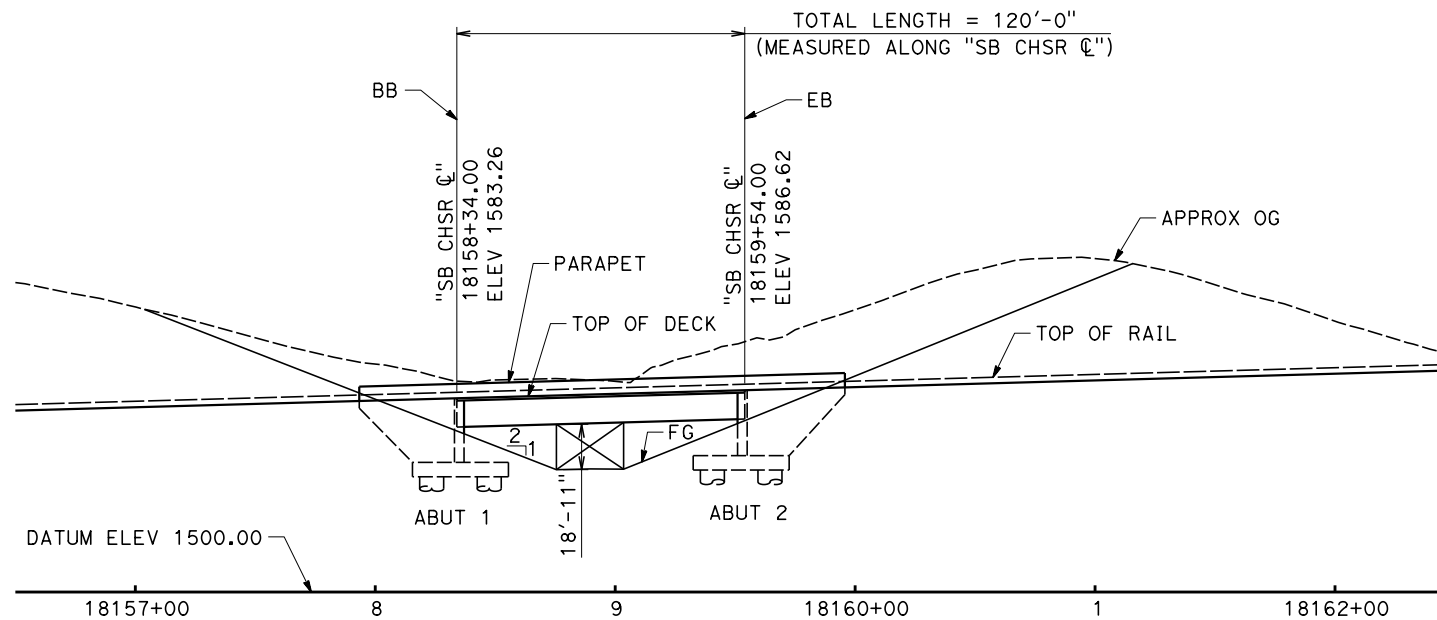
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1/7/2021

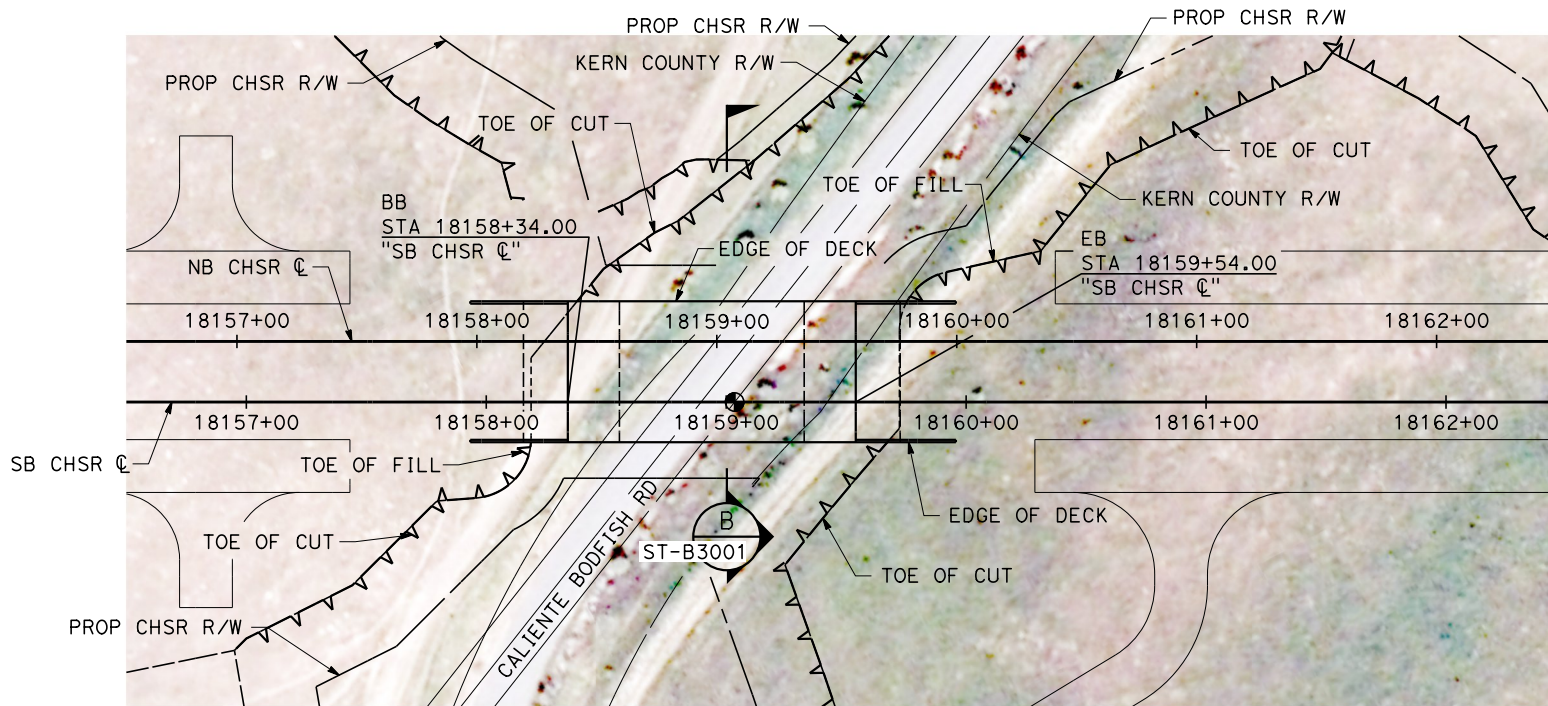
yihong.wang@tylin.com



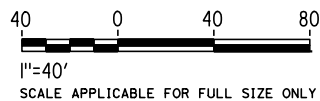
**TOP OF RAIL "SB CHSR ☐"**  
NO SCALE



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,3,5  
TRACK STRUCTURES  
CALIENTE BODFISH ROAD UNDERPASS  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1031  
SCALE  
AS SHOWN  
SHEET NO.  
814

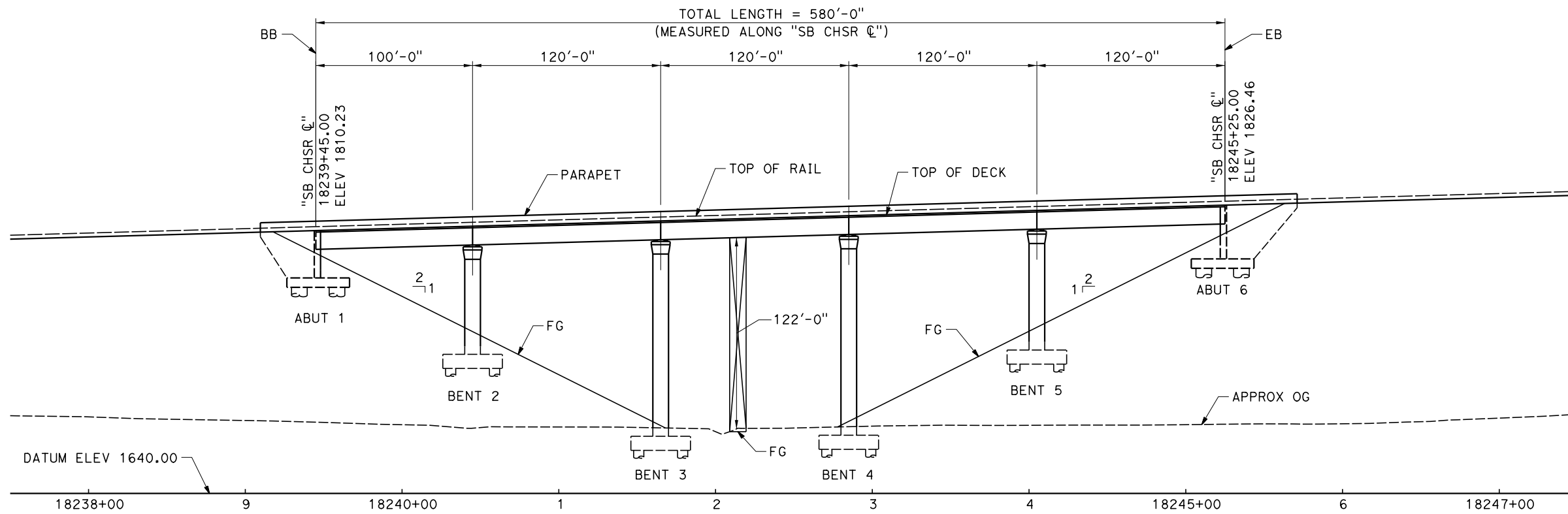
18155+96.59 EVC  
ELEV 1576.62

+2.80%

18990+24.70 BVC  
ELEV 3911.24

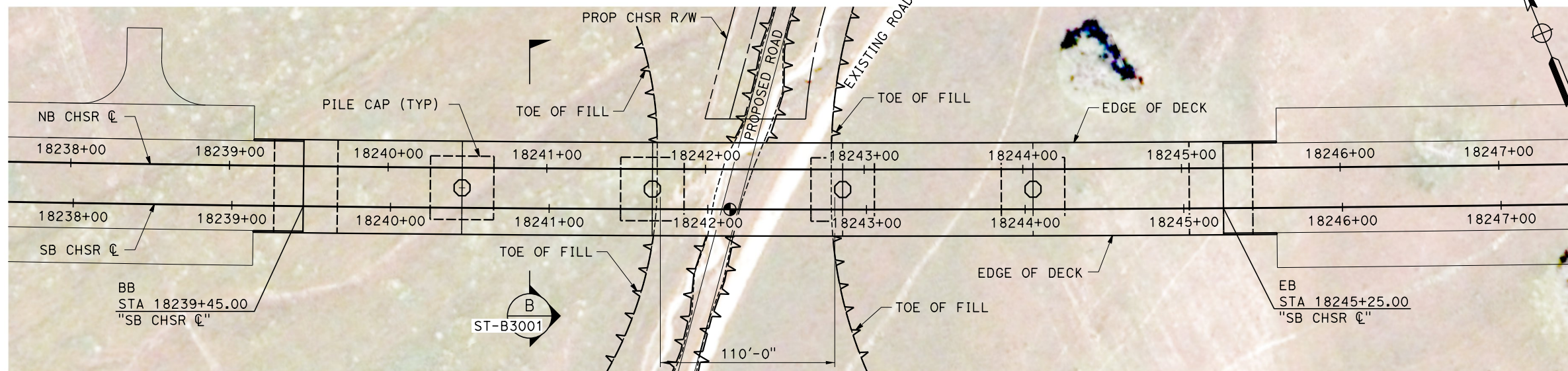
**TOP OF RAIL "SB CHSR C"**

NO SCALE



**ELEVATION**

SCALE 1" = 40'



**PLAN**

SCALE 1" = 40'



1" = 40'  
SCALE APPLICABLE FOR FULL SIZE ONLY

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1032

3:08:45 PM

1/7/2021

y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

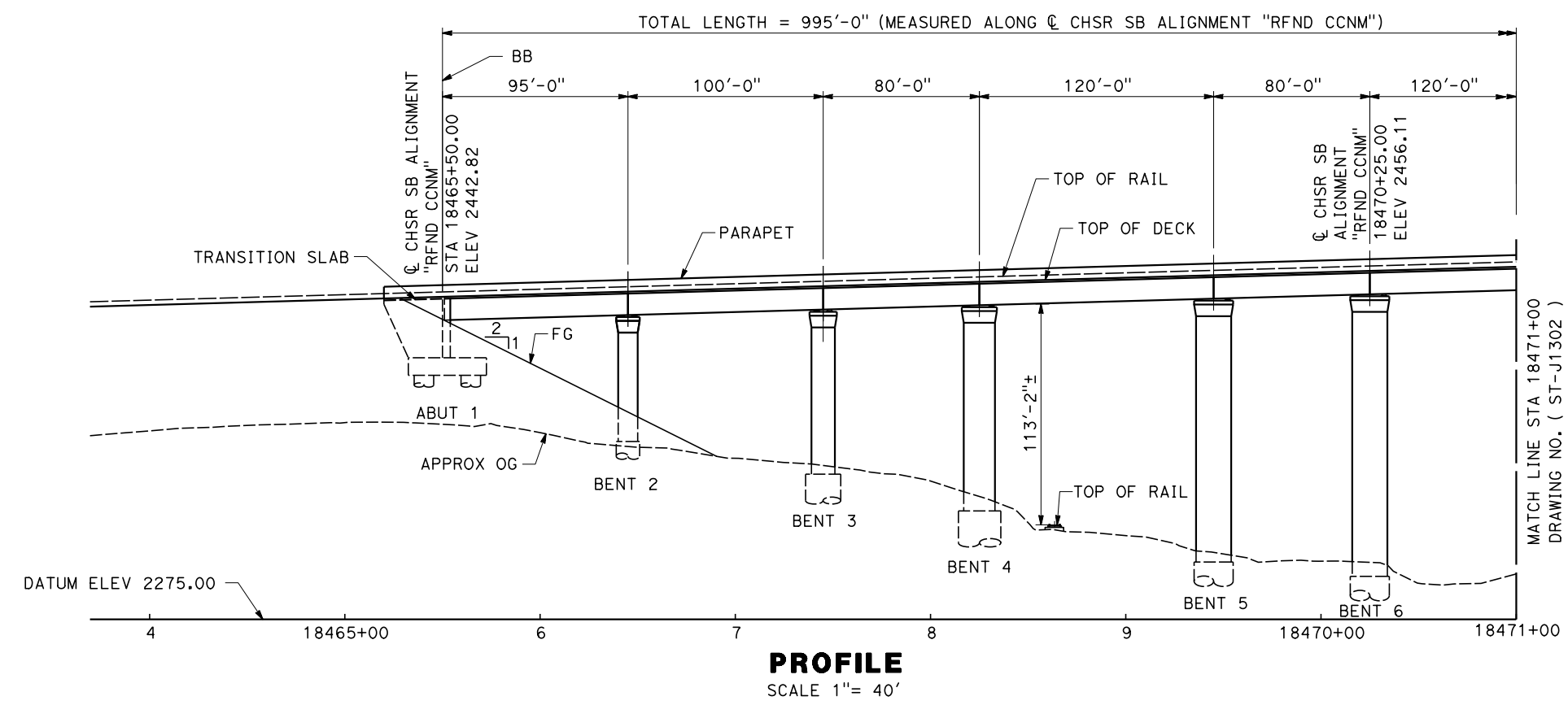
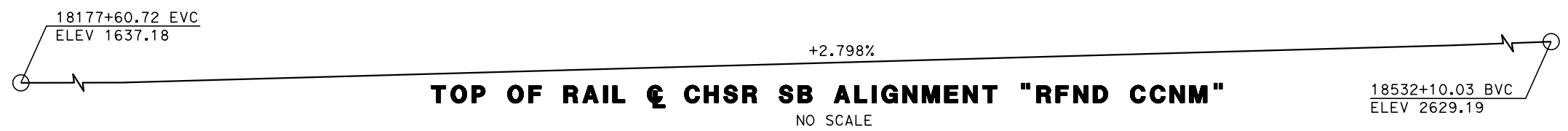
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**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**

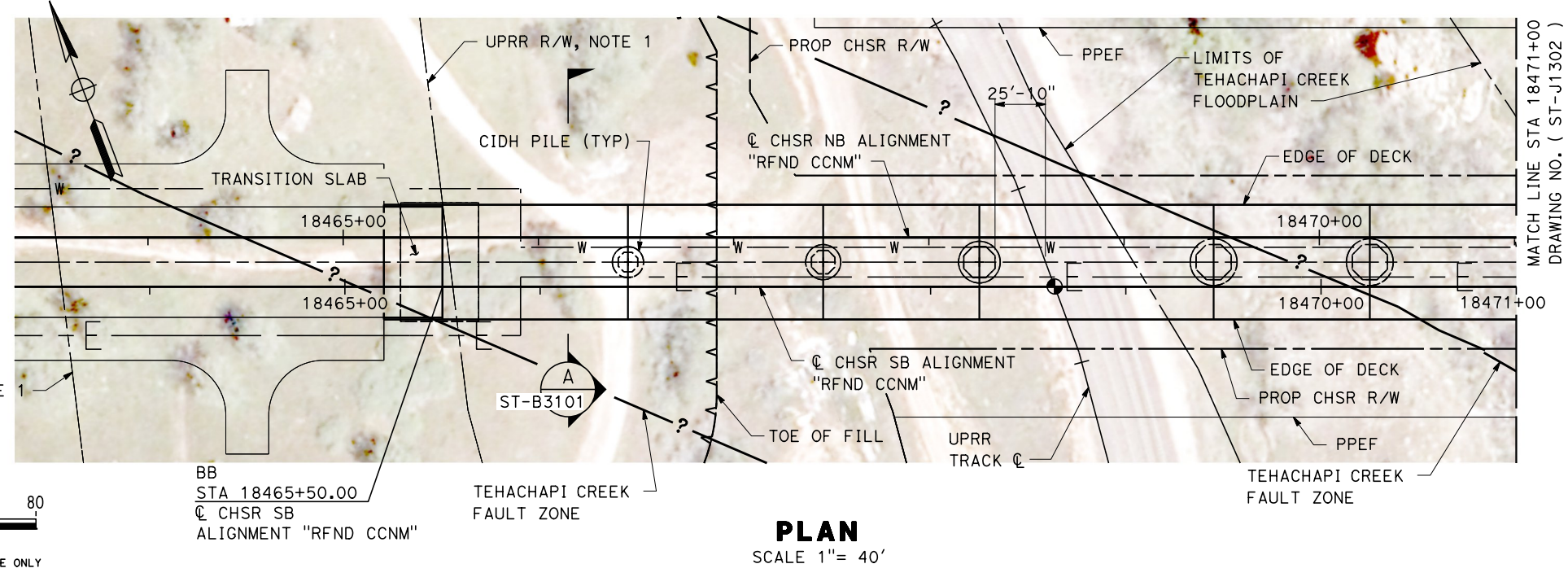


**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,3,5  
TRACK STRUCTURES  
UNDERPASS STATION 18239+45 TO 18245+25  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1032  
SCALE  
AS SHOWN  
SHEET NO.  
815



NOTE:  
1. RECORD RIGHT-OF-WAY IS NOT CORRECT IN RELATION TO THE LOCATION OF RAILROAD TRACKS.



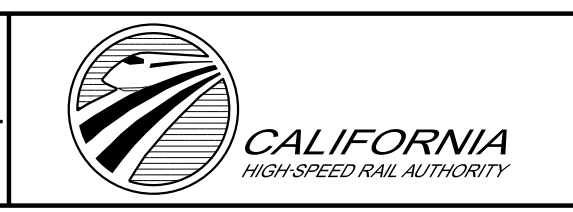
Projects\701206.00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-J1301 1/11/2021 10:34:35 PM yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
VIADUCT STATION 18465+50 TO 18475+65  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1301  
SCALE  
AS SHOWN  
SHEET NO.  
816

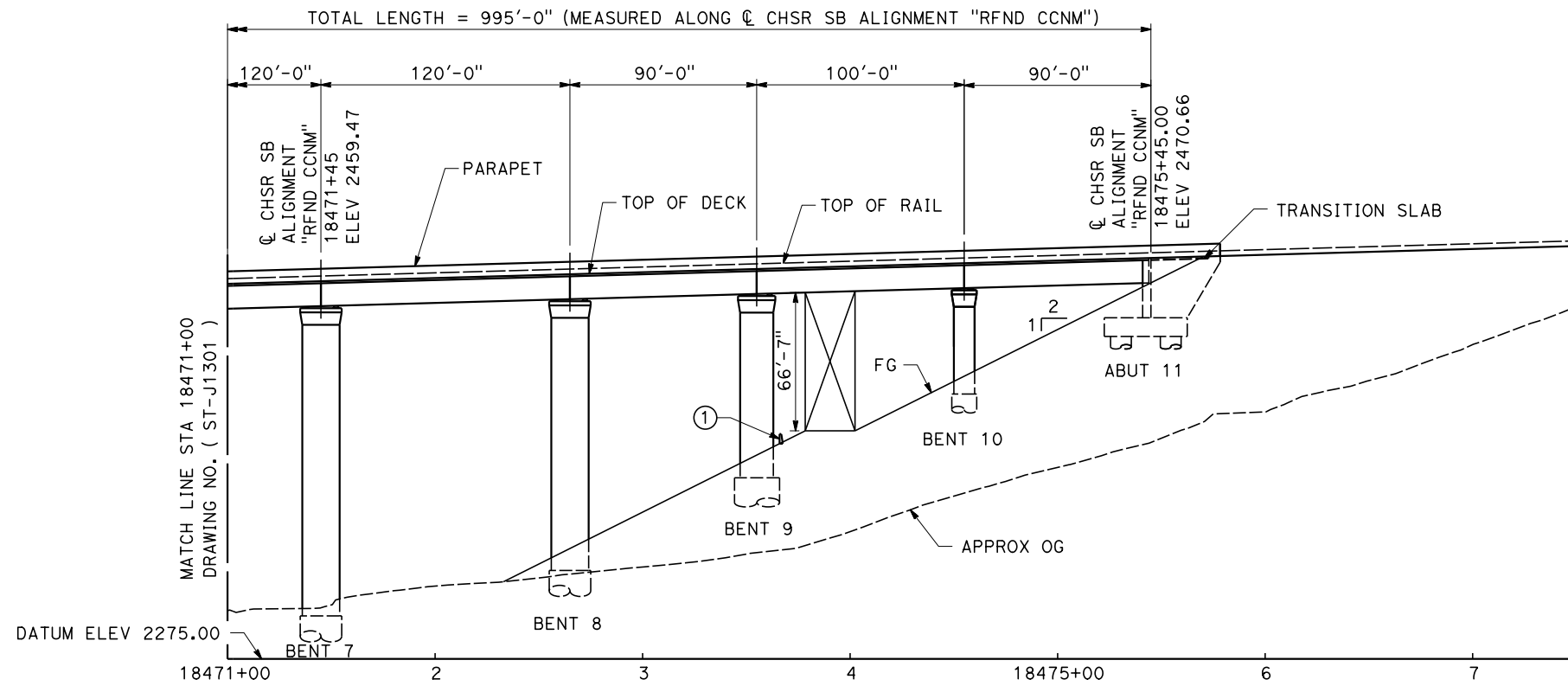
18177+60.72 EVC  
ELEV 1637.18

+2.798%

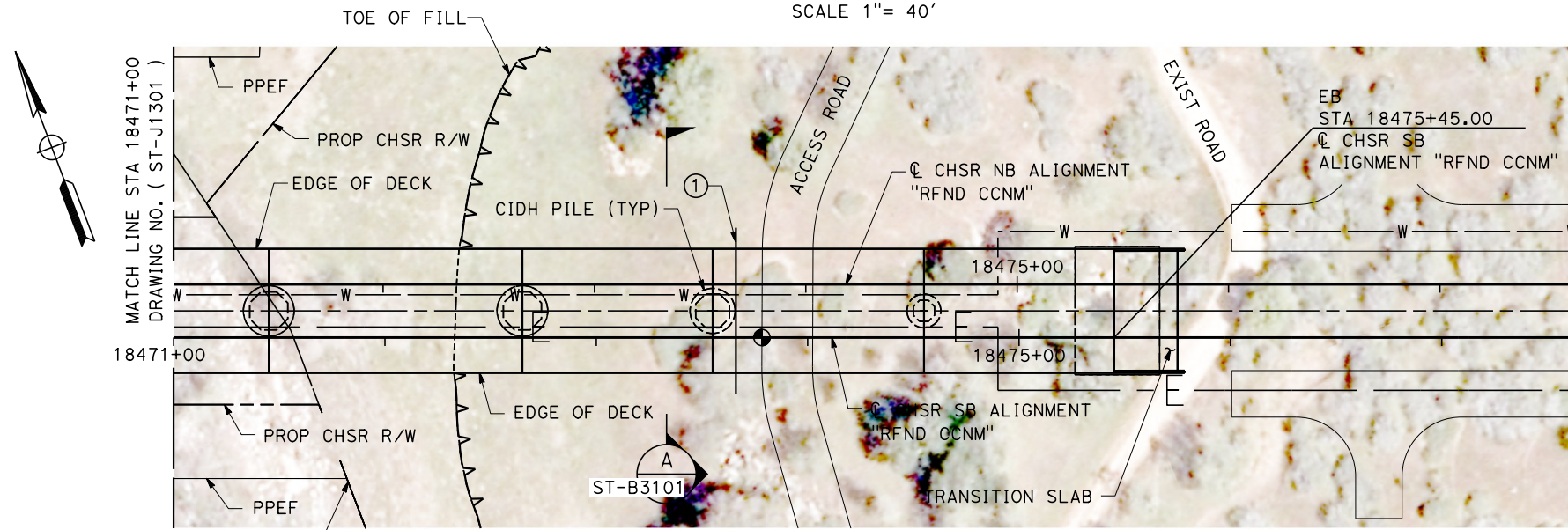
**TOP OF RAIL @ CHSR SB ALIGNMENT "RFND CCNM"**

NO SCALE

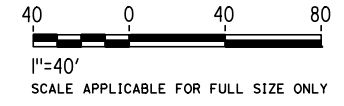
18532+10.03 BVC  
ELEV 2629.19



**PROFILE**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206.00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\_NBP-ST-J1302

10:34:35 PM

1/11/2021

y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

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  
TRACK STRUCTURES  
VIADUCT STATION 18465+50 TO 18475+65  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44

DRAWING NO.  
ST-J1302

SCALE  
AS SHOWN

SHEET NO.  
817

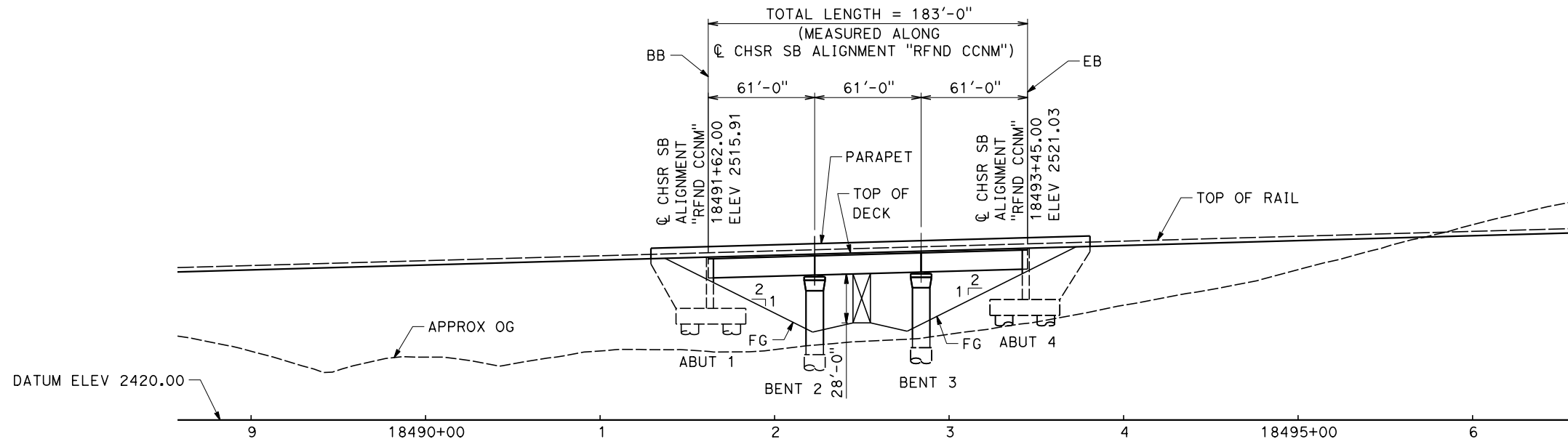
18177+60.72 EVC  
ELEV 1637.18

+2.798%

18532+10.03 BVC  
ELEV 2629.19

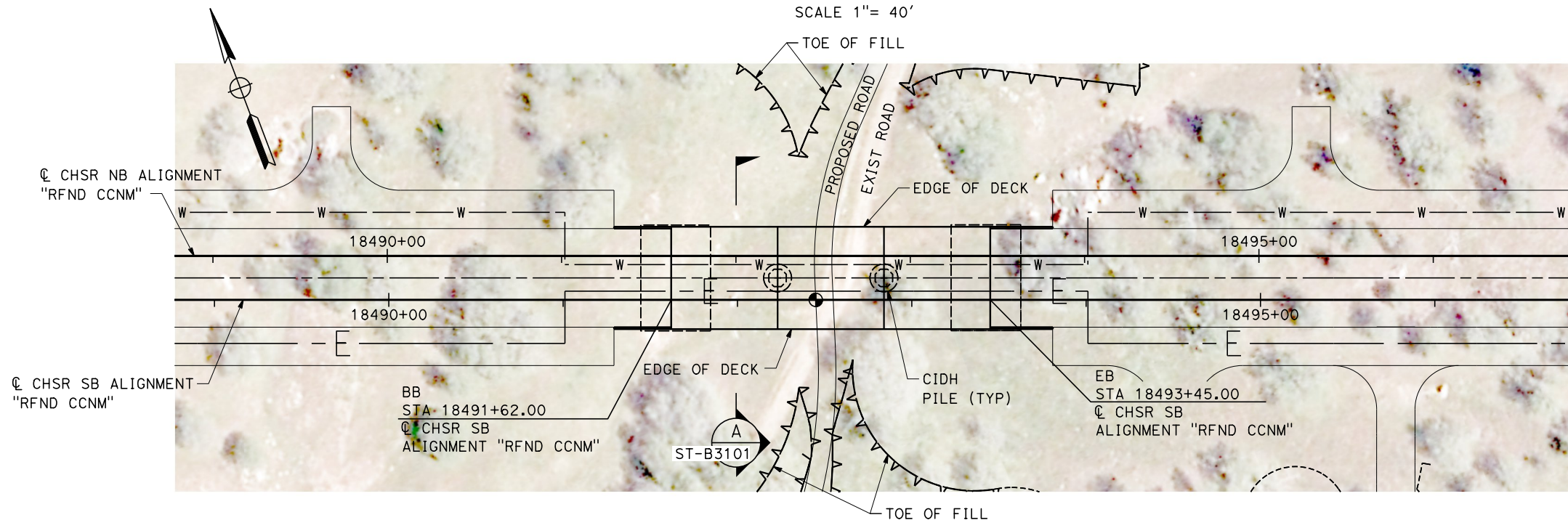
**TOP OF RAIL @ CHSR SB ALIGNMENT "RFND CCNM"**

NO SCALE



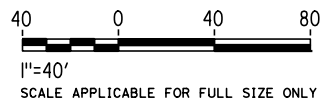
**ELEVATION**

SCALE 1" = 40'



**PLAN**

SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-J1303

10:34:35 PM

1/11/2021

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
VIADUCT STATION 18491+62 TO 18493+45  
PLAN AND ELEVATION

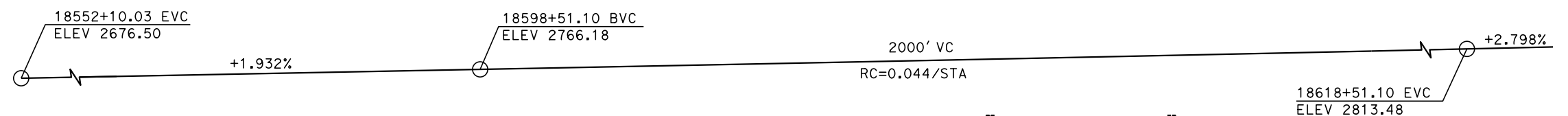
CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1303  
SCALE  
AS SHOWN  
SHEET NO.  
818

Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-J1304

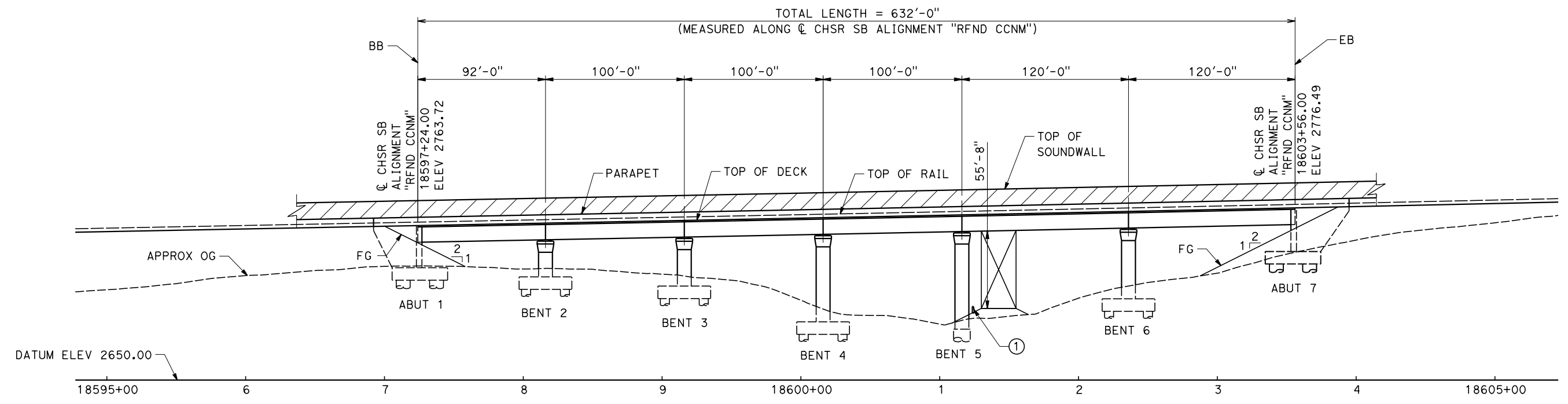
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1/11/2021

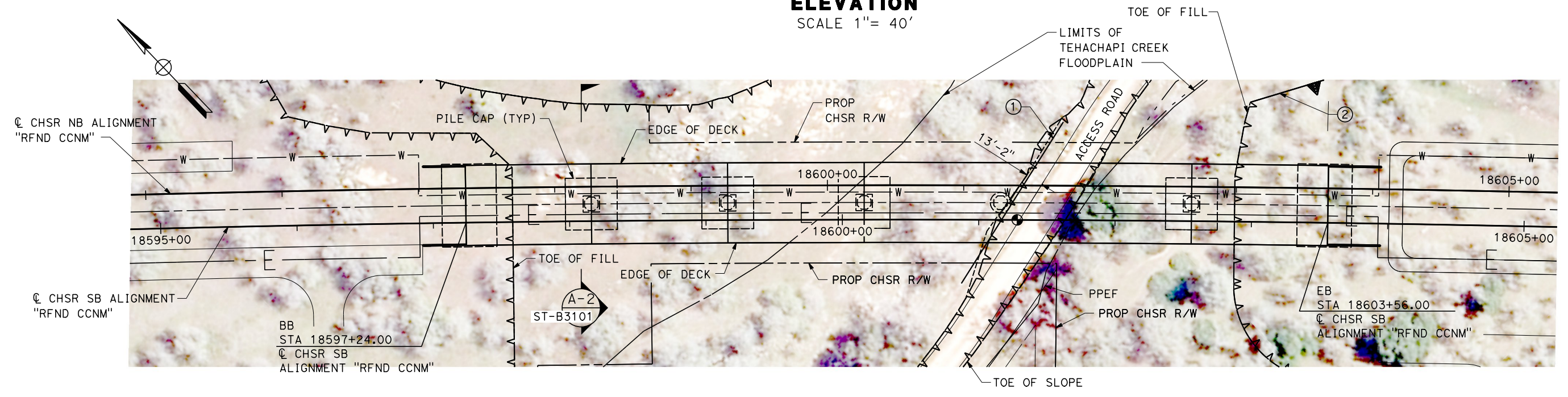
yihong.wang@tylin.com



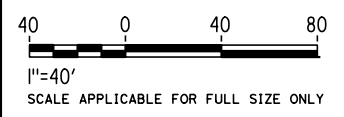
**TOP OF RAIL & CHSR SB ALIGNMENT "RFND CCNM"**  
NO SCALE



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
VIADUCT STATION 18597+24 TO 18603+56  
PLAN AND ELEVATION

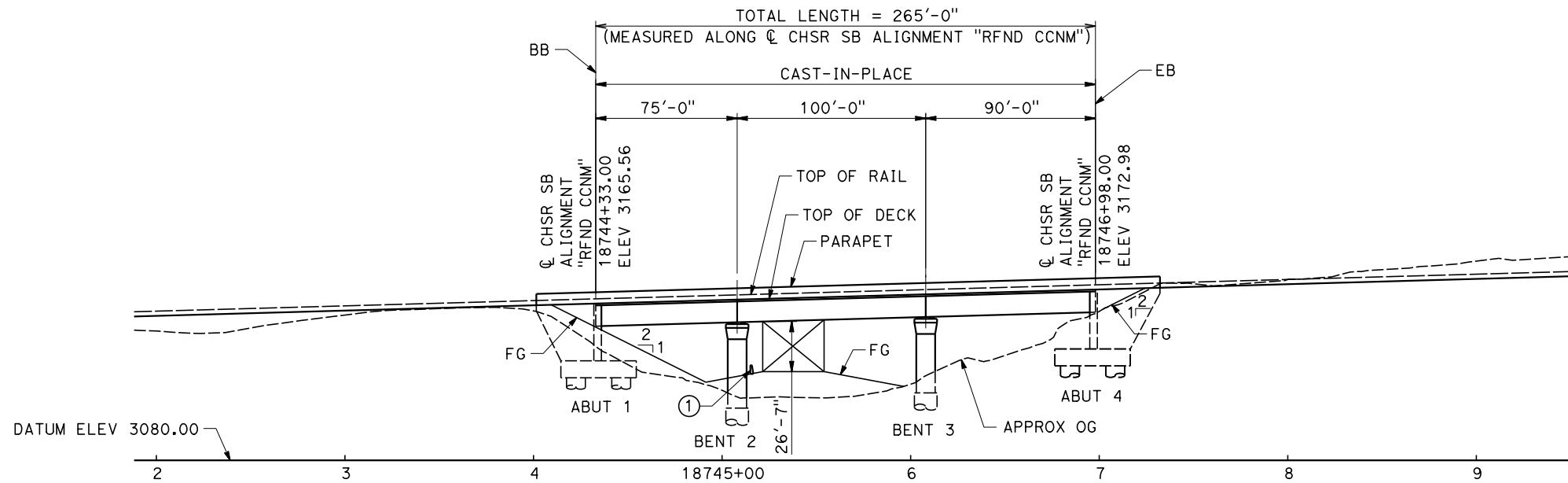
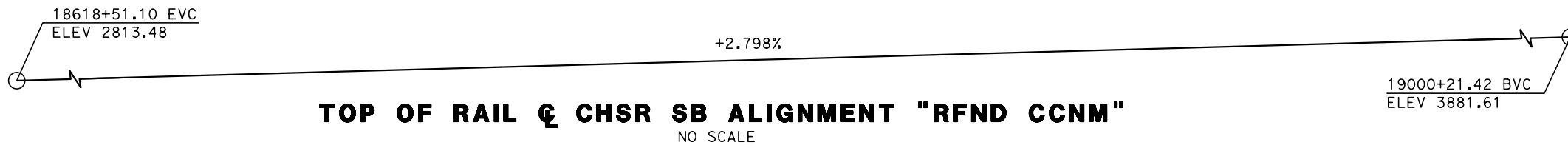
CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1304  
SCALE  
AS SHOWN  
SHEET NO.  
819

Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-J1305

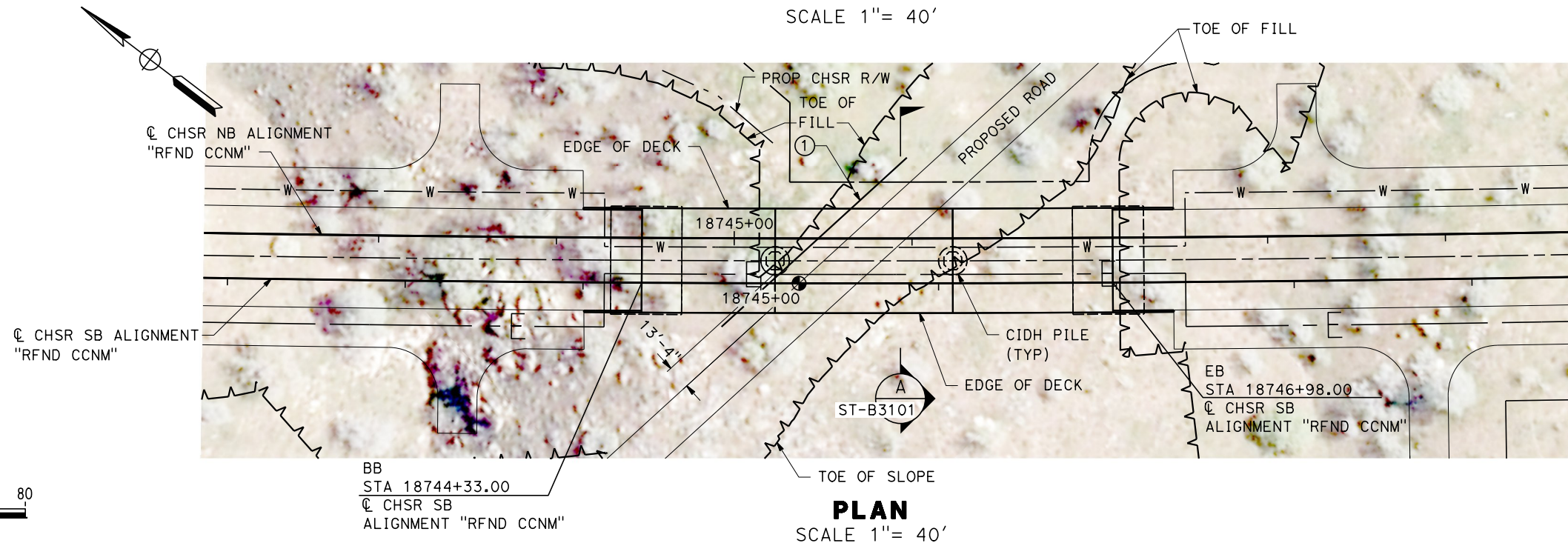
10:34:38 PM

1/11/2021

yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
VIADUCT STATION 18744+33 TO 18746+98  
PLAN AND ELEVATION

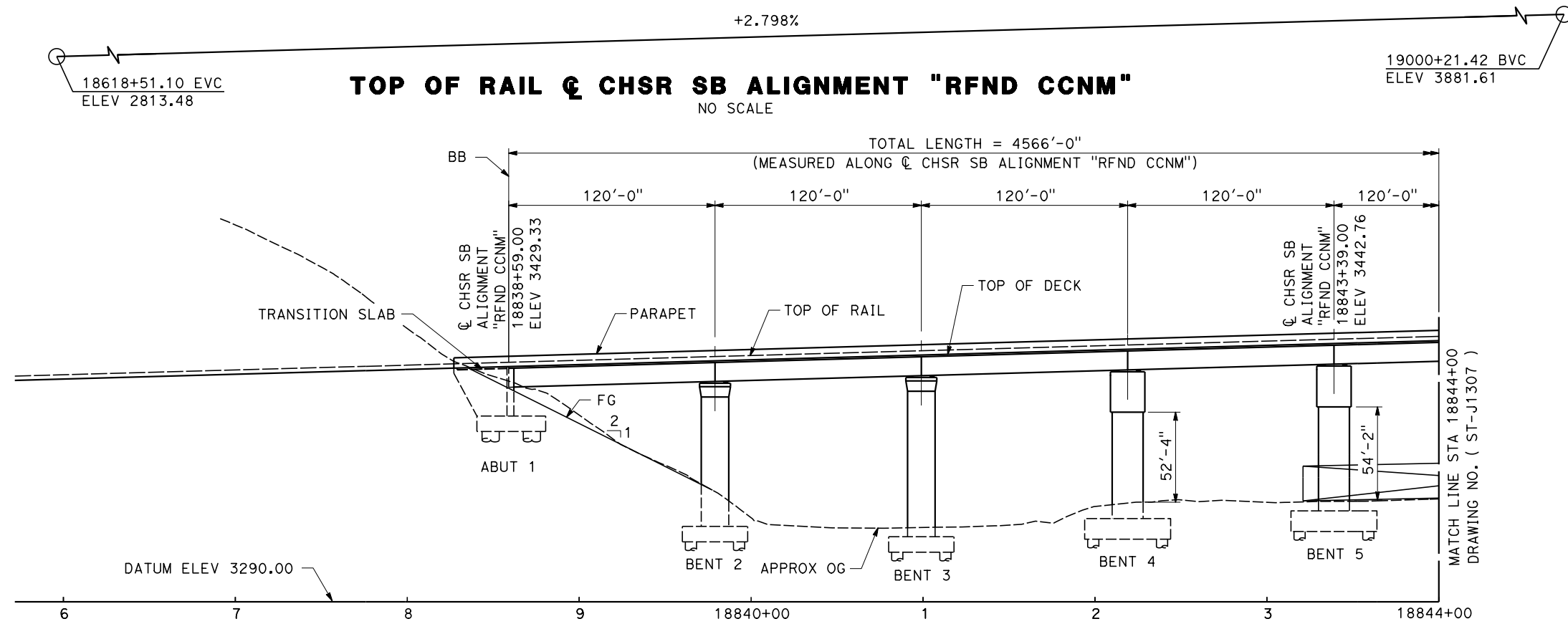
CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1305  
SCALE  
AS SHOWN  
SHEET NO.  
820

Projects\701206.00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-J1306

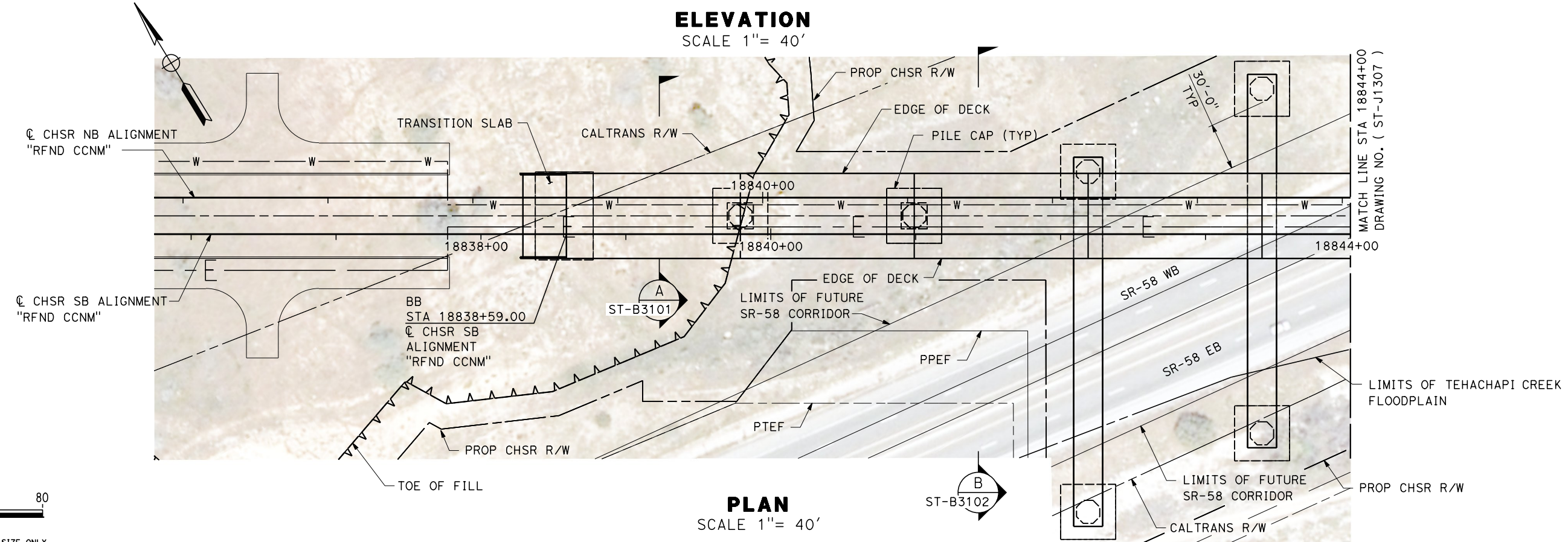
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1/11/2021

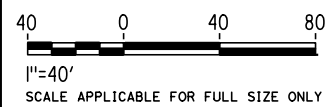
yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

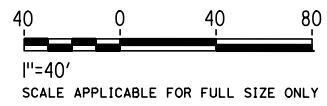
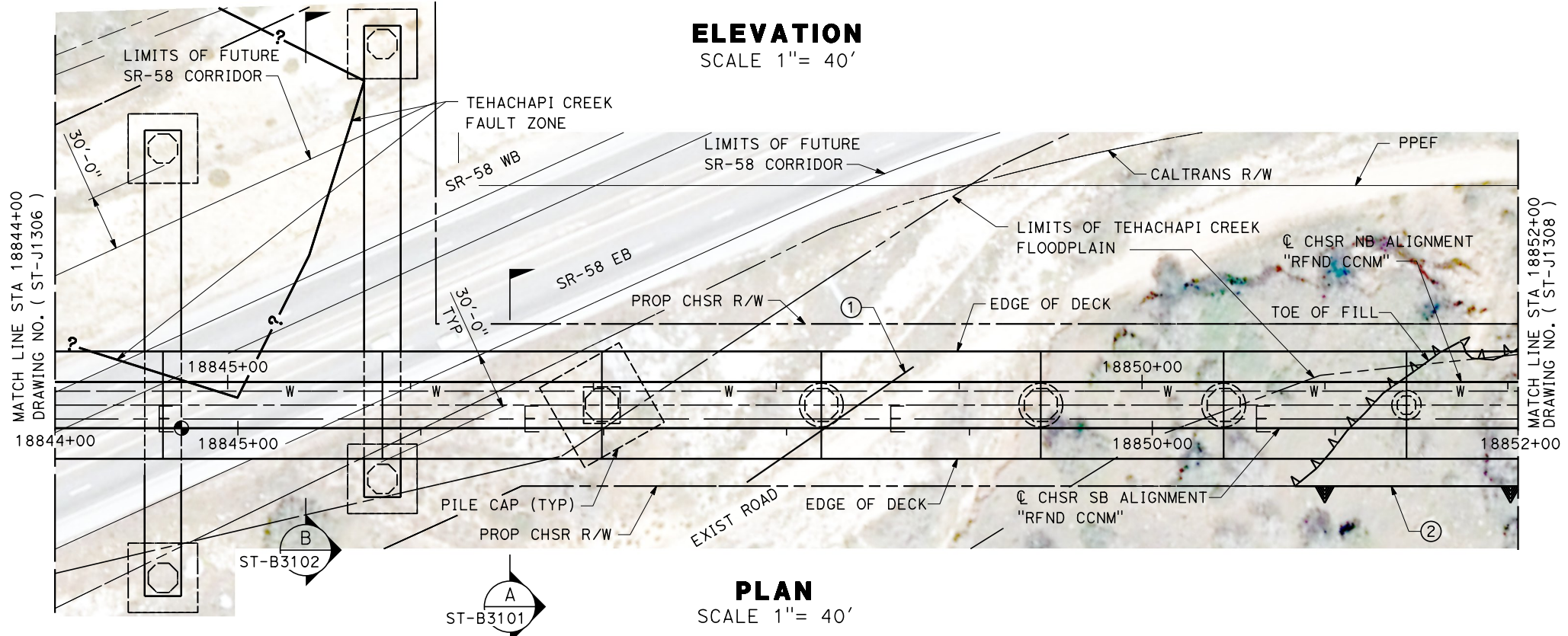
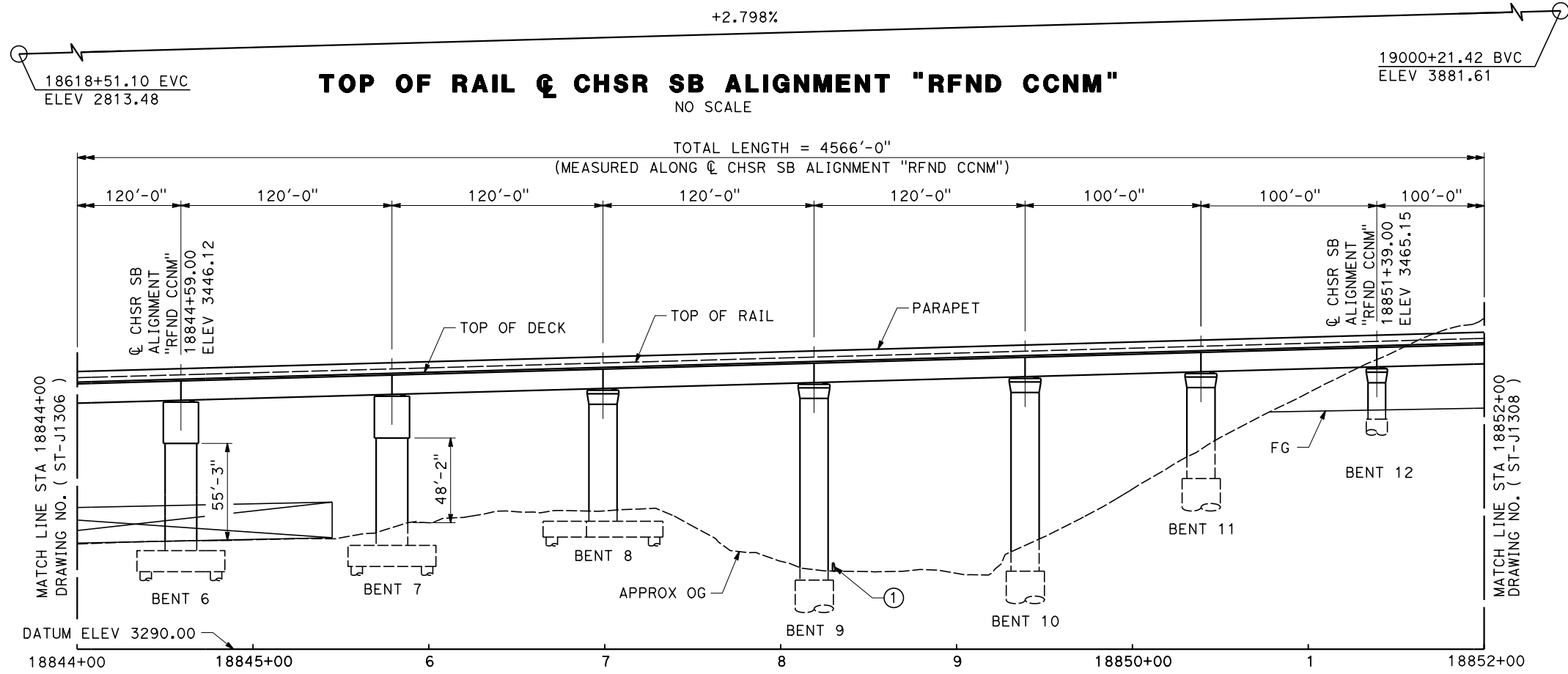
**RECORD SET**  
**PEPD**  
**SUBMITTAL**  
  
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
TRACK STRUCTURES  
VIADUCT STATION 18838+59 TO 18884+25  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1306  
SCALE  
AS SHOWN  
SHEET NO.  
821





Projects\701206.00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-J1307

1/11/2021 10:35:35 PM

y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

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  
TRACK STRUCTURES  
VIADUCT STATION 18838+59 TO 18884+25  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44

DRAWING NO.  
ST-J1307

SCALE  
AS SHOWN

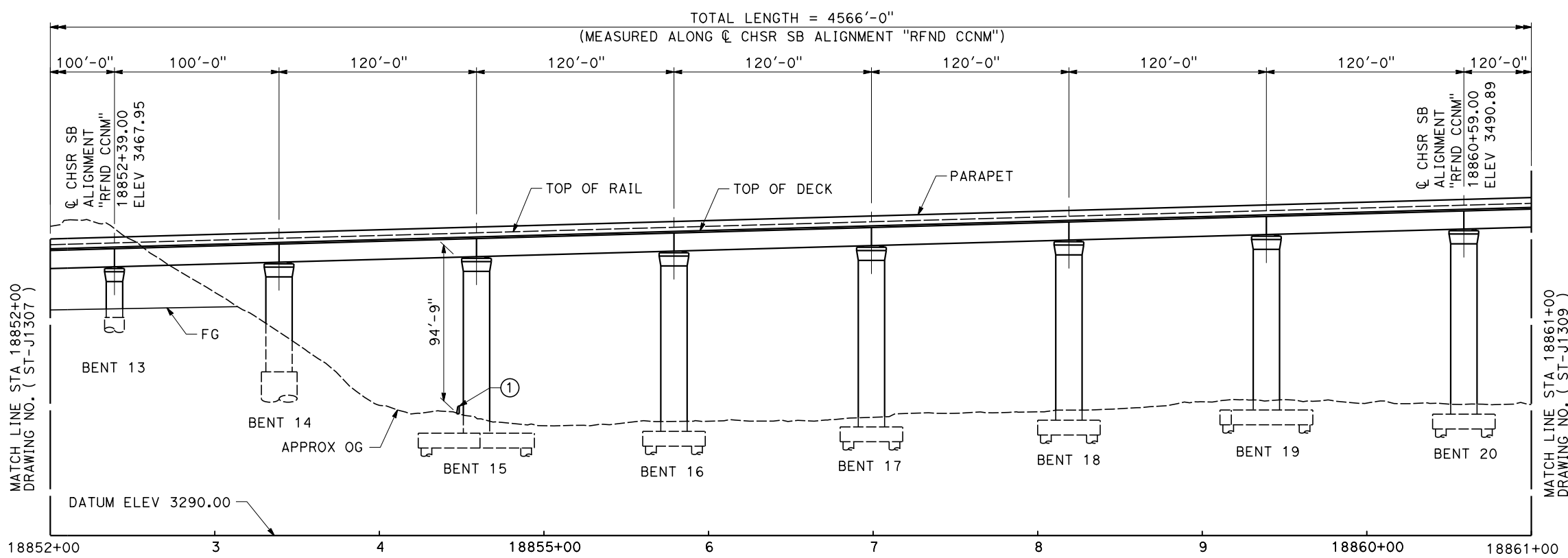
SHEET NO.  
822

Projects\701206.00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-J1308

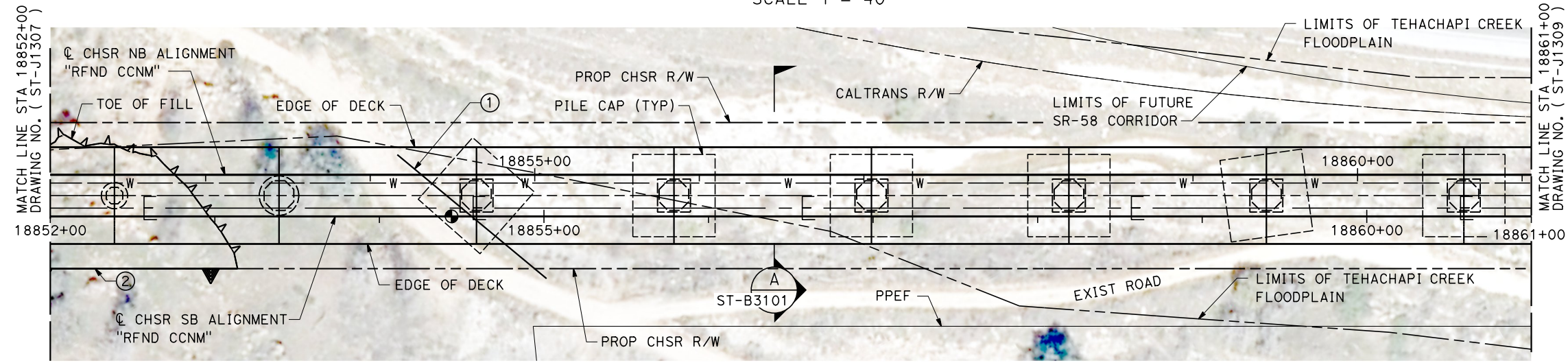
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1/11/2021

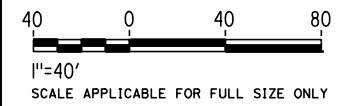
yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
VIADUCT STATION 18838+59 TO 18884+25  
PLAN AND ELEVATION

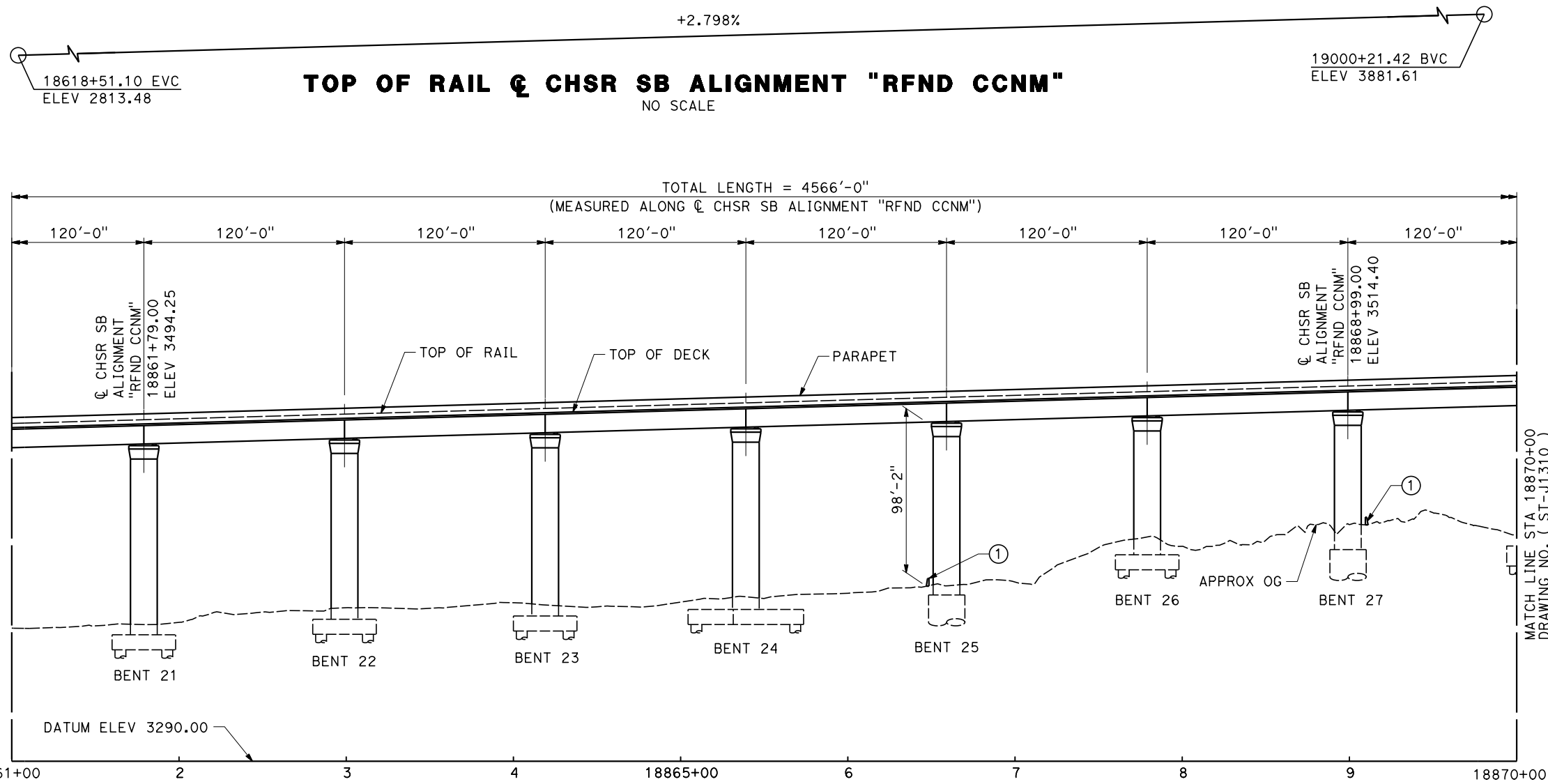
CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1308  
SCALE  
AS SHOWN  
SHEET NO.  
823

Projects\701206.00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-J1309

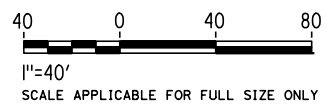
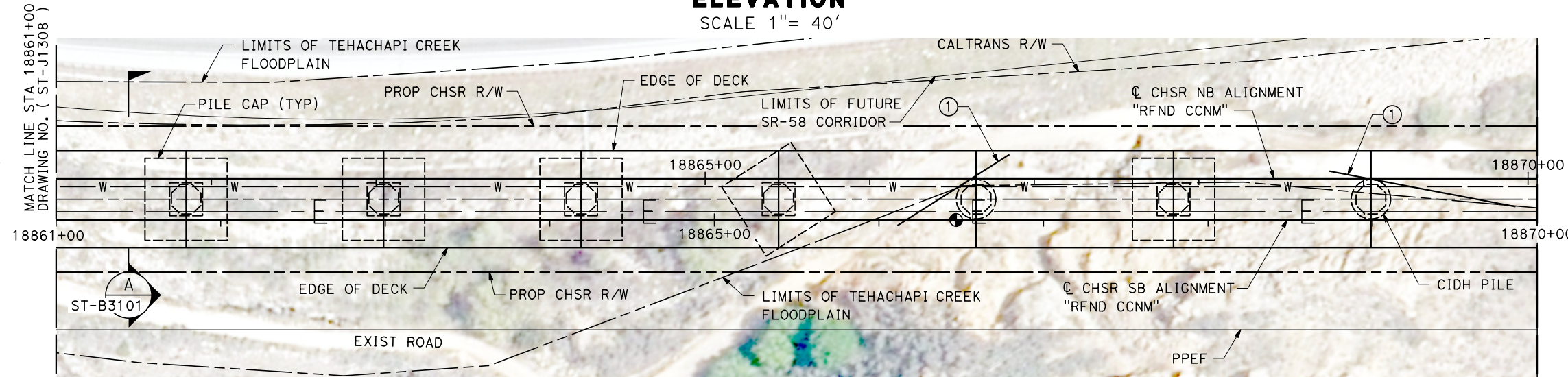
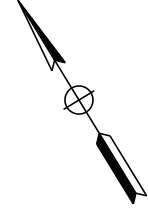
10:35:22 PM

1/11/2021

yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

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  
TRACK STRUCTURES  
VIADUCT STATION 18838+59 TO 18884+25  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44

DRAWING NO.  
ST-J1309

SCALE  
AS SHOWN

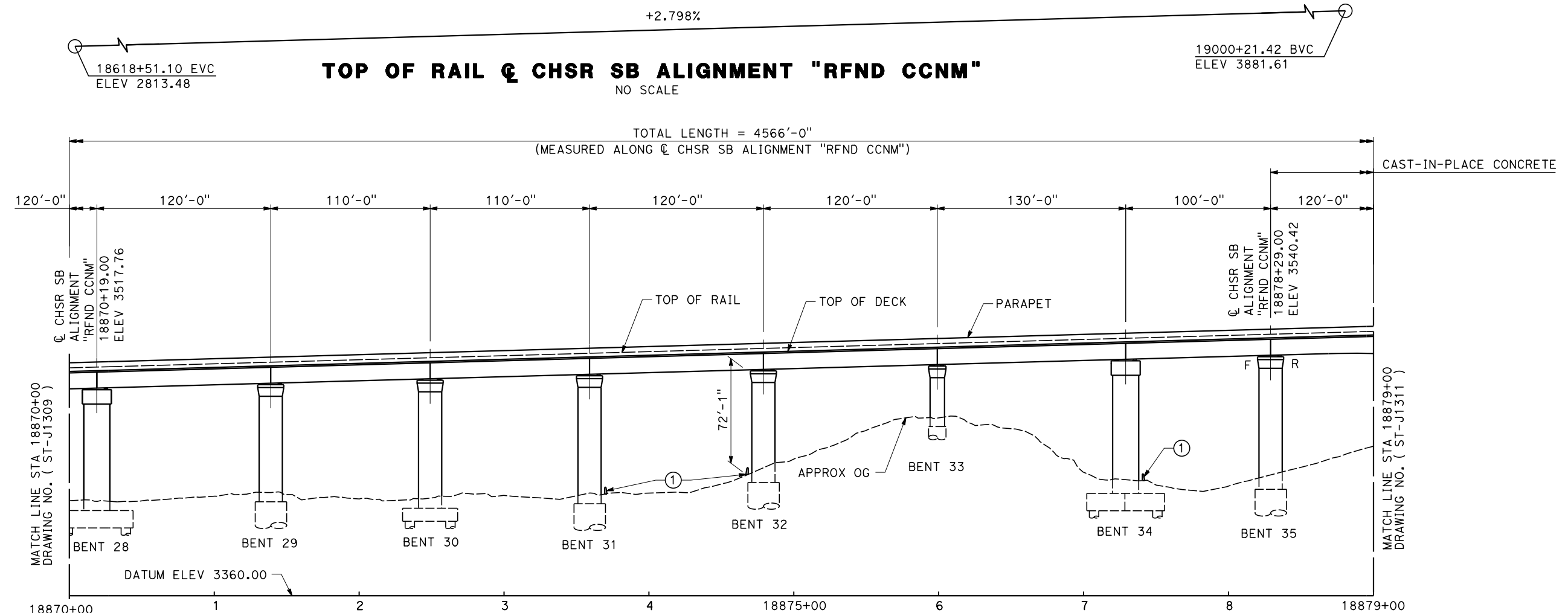
SHEET NO.  
824

Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-J1310

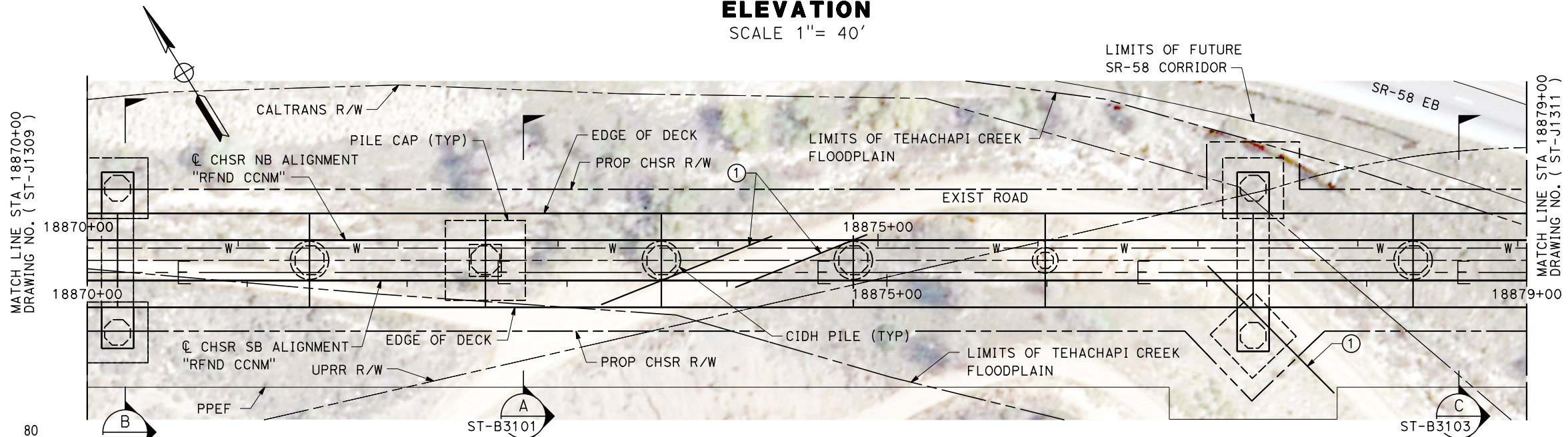
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1/11/2021

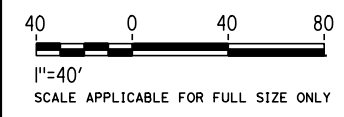
yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
VIADUCT STATION 18838+59 TO 18884+25  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1310  
SCALE  
AS SHOWN  
SHEET NO.  
825



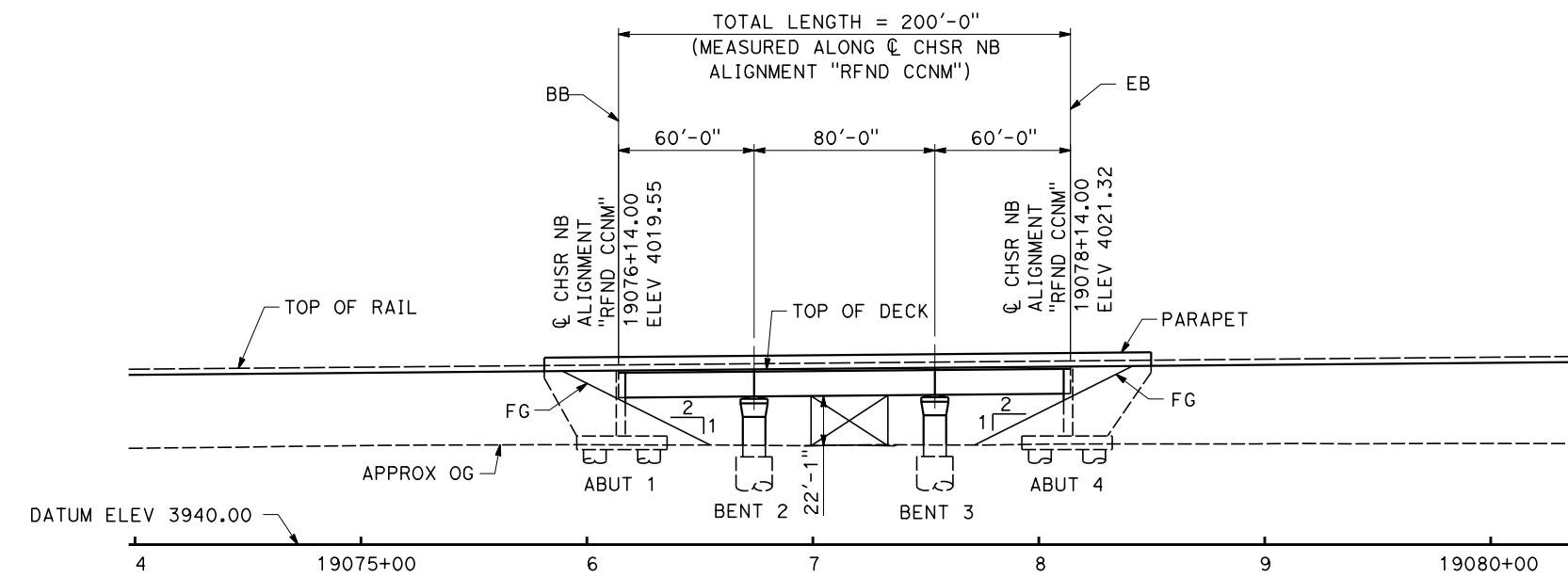
19055+34.38 EVC  
ELEV 4001.14

0.886%

19104+69.61 REFINED CCNM =  
19094+86.31 ALT 1,2,3,5  
ELEV 4044.88

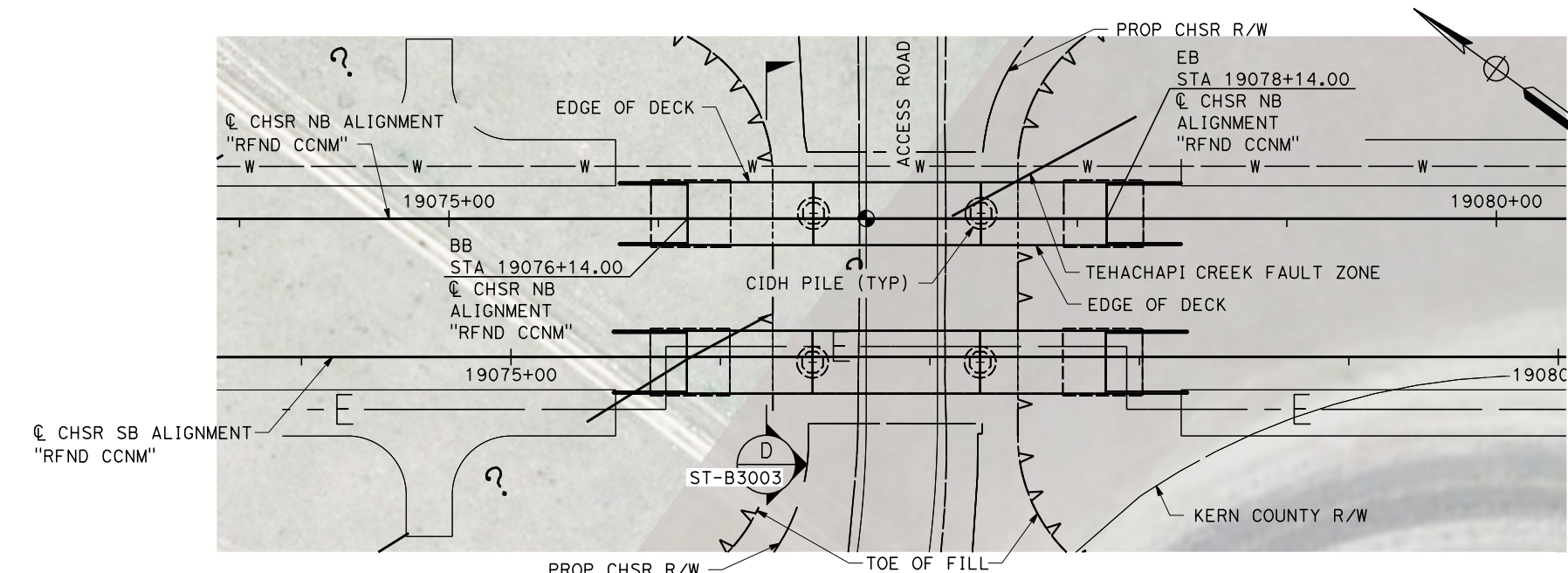
**TOP OF RAIL  $\phi$  CHSR NB ALIGNMENT "RFND CCNM"**

NO SCALE



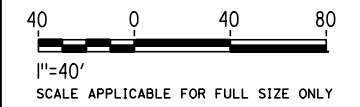
**ELEVATION**

SCALE 1" = 40'



**PLAN**

SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-J1311A 1/11/2021 10:45:07 PM yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
NORTH VIADUCT STA 19076+14.00 TO 19078+14.00  
PLAN AND ELEVATION

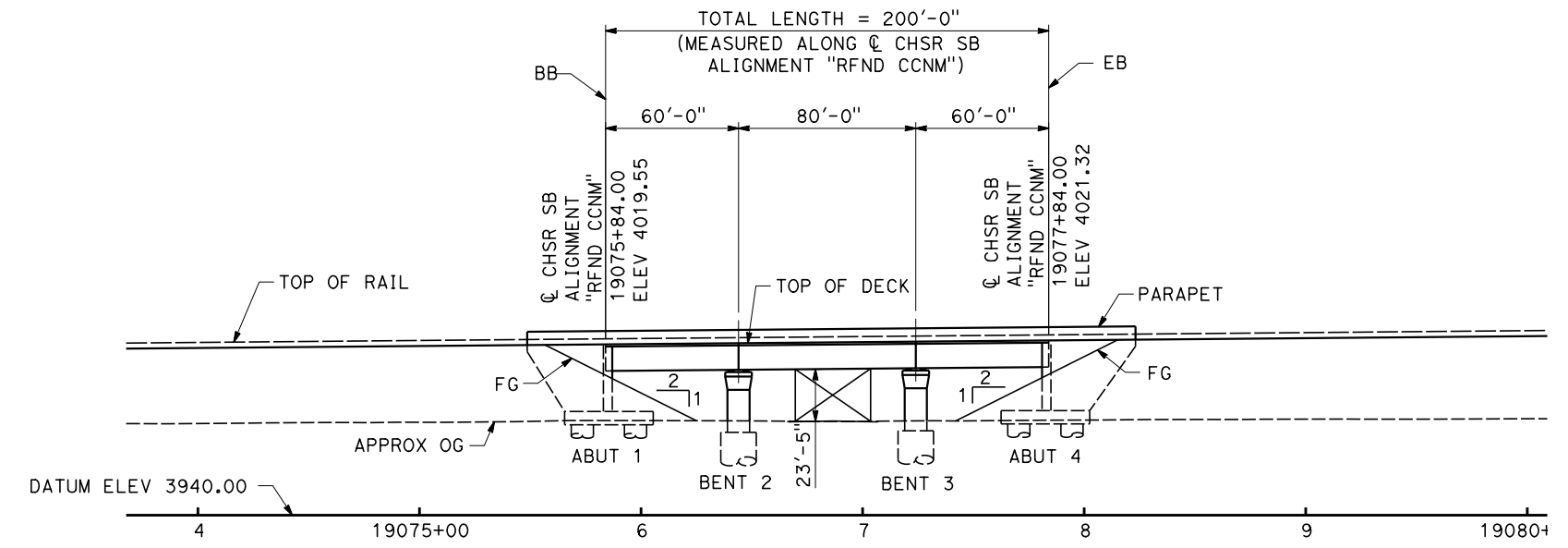
CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1311A  
SCALE  
AS SHOWN  
SHEET NO.  
827

19055+04.79 EVC  
ELEV 4001.14

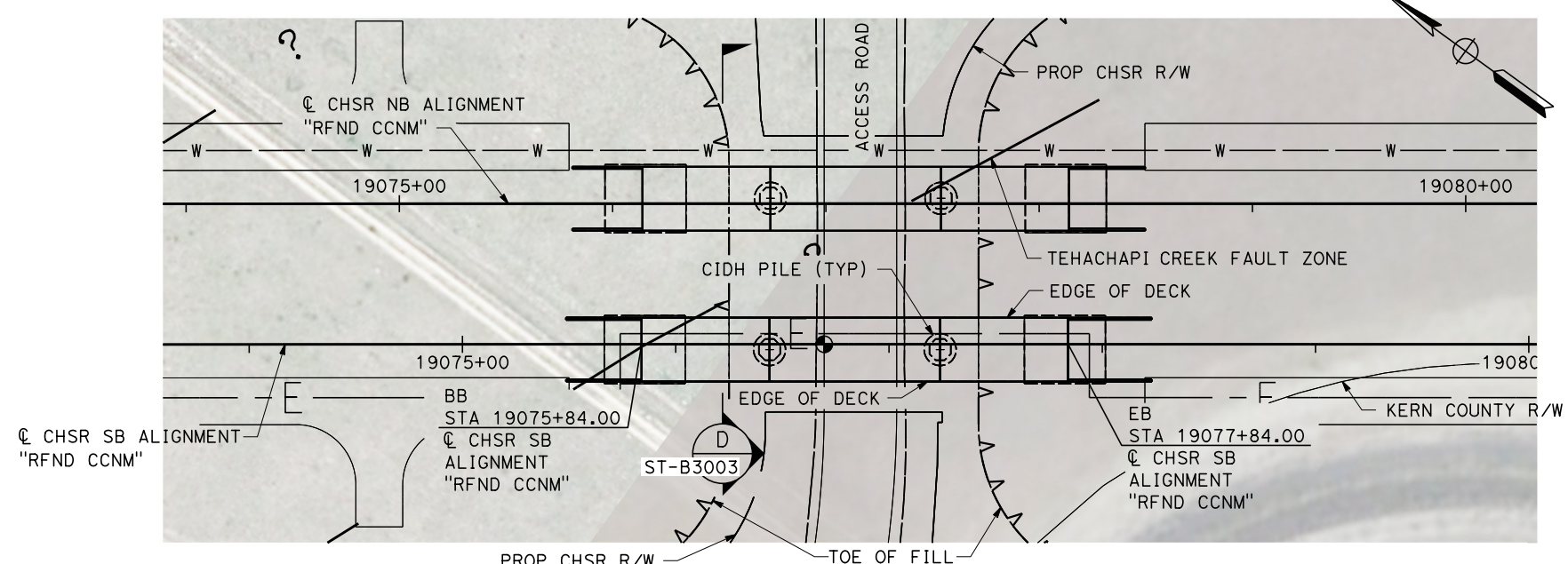
0.886%

19104+40.02 REFINED CCNM =  
19094+56.71 ALT 1,2,3,5  
ELEV 4044.84

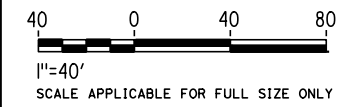
**TOP OF RAIL & CHSR SB ALIGNMENT "RFND CCNM"**  
NO SCALE



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-J1311B  
1/11/2021 10:36:29 PM  
y.hong.wang@tylin.com

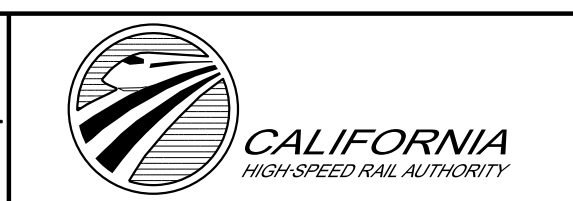
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**

**TYLIN INTERNATIONAL**

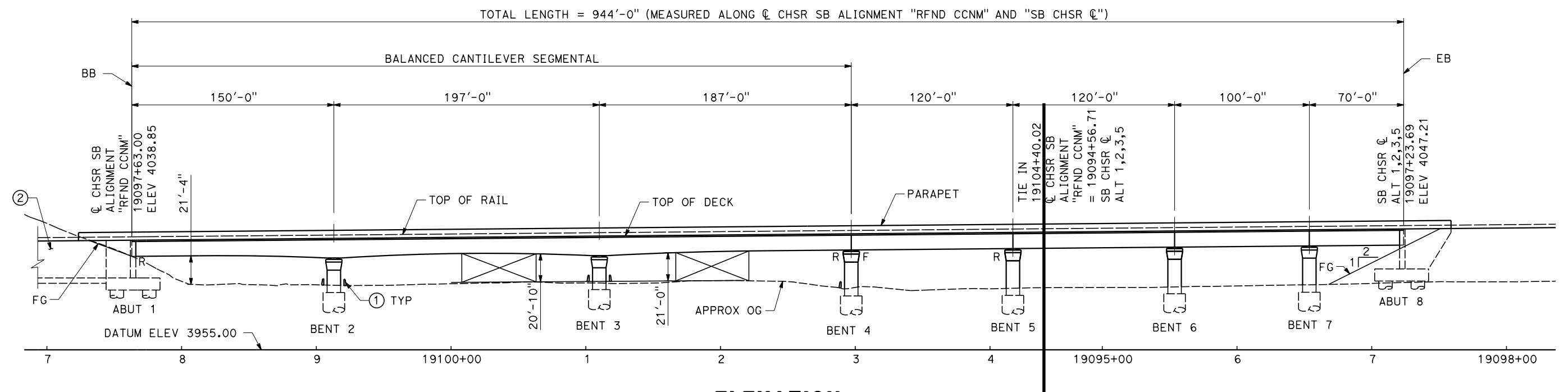


**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
TRACK STRUCTURES  
SOUTH VIADUCT STA 19075+84.00 TO 19077+84.00  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1311B  
SCALE  
AS SHOWN  
SHEET NO.  
828

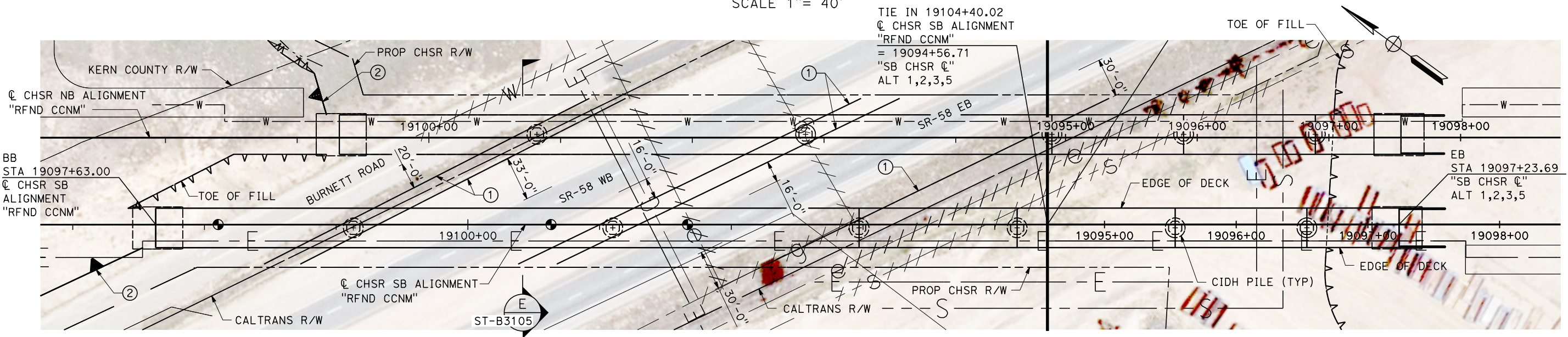
19055+04.79 EVC ELEV 4001.14      0.886%      19104+40.02 EVC ELEV 4044.84      0.886%      19380+04.90 BVC ELEV 4297.66

**TOP OF RAIL & CHSR SB ALIGNMENT "RFND CCNM"**  
NO SCALE

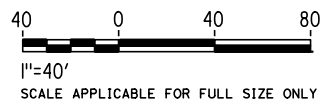


**ELEVATION**  
SCALE 1" = 40'

TIE IN 19104+40.02  
& CHSR SB ALIGNMENT "RFND CCNM" = 19094+56.71 "SB CHSR &" ALT 1,2,3,5



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-J1312

1/11/2021 10:35:56 PM yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

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  
TRACK STRUCTURES  
SOUTH VIADUCT STA 19097+53 TO 19097+39.69 ALT 1,2,3,5  
PLAN AND ELEVATION

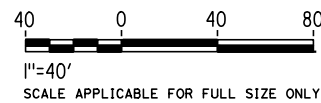
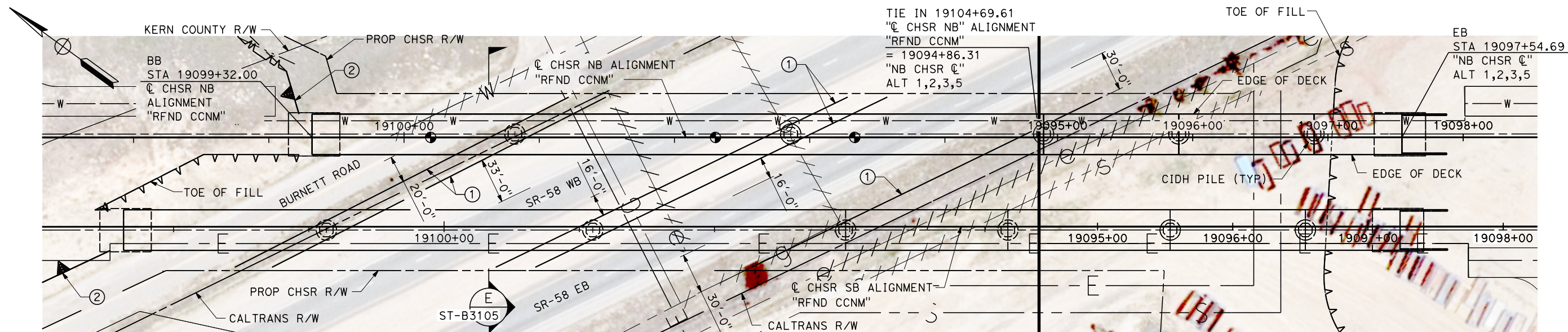
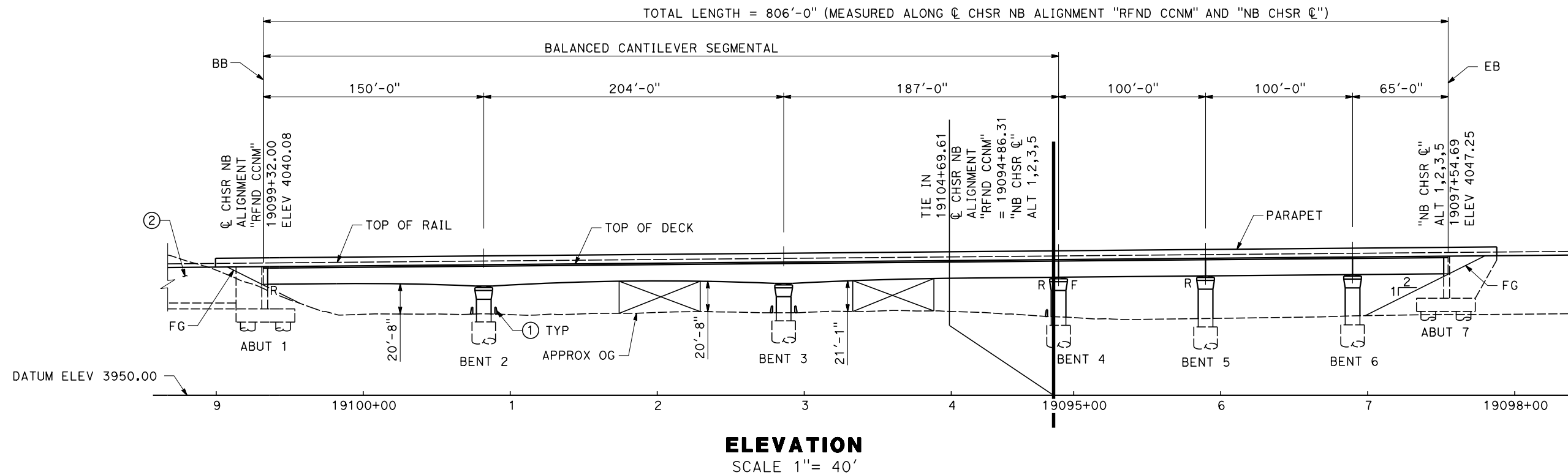
CONTRACT NO.  
HSR13-44

DRAWING NO.  
ST-J1312

SCALE  
AS SHOWN

SHEET NO.  
829





**PLAN**  
SCALE 1"= 40'

Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\ST\BP-ST-J1313

10:35:56 PM

1/11/2021

y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
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  
TRACK STRUCTURES  
NORTH VIADUCT STA 19099+22 TO 19097+68.69 ALT 1,2,3,5  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1313  
SCALE  
AS SHOWN  
SHEET NO.  
830

19033+16.98 EVC  
Elev 3990.18

0.89%

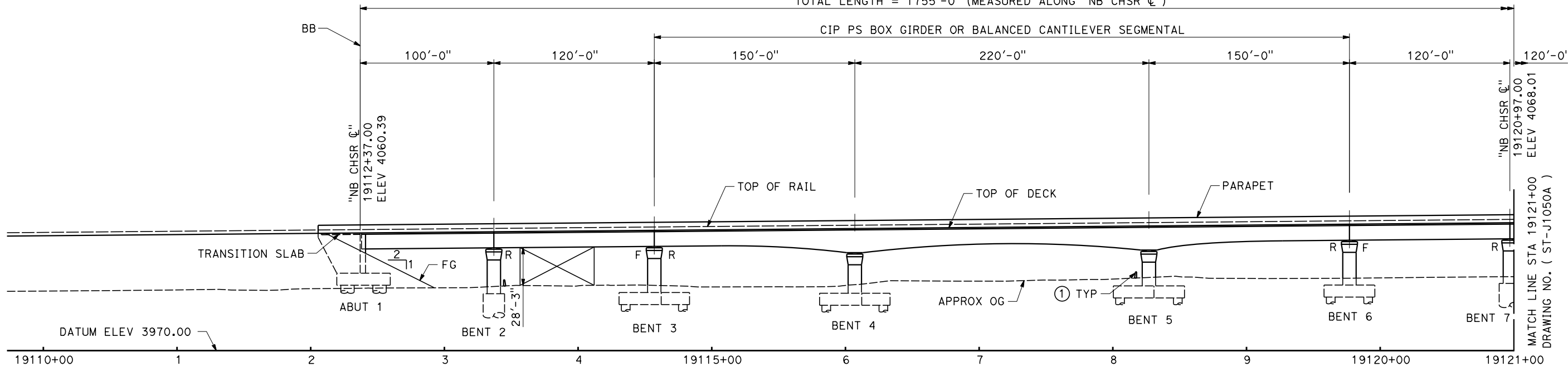
19380+15.91 BVC  
Elev 4297.62

**TOP OF RAIL "NB CHSR ☐"**

NO SCALE

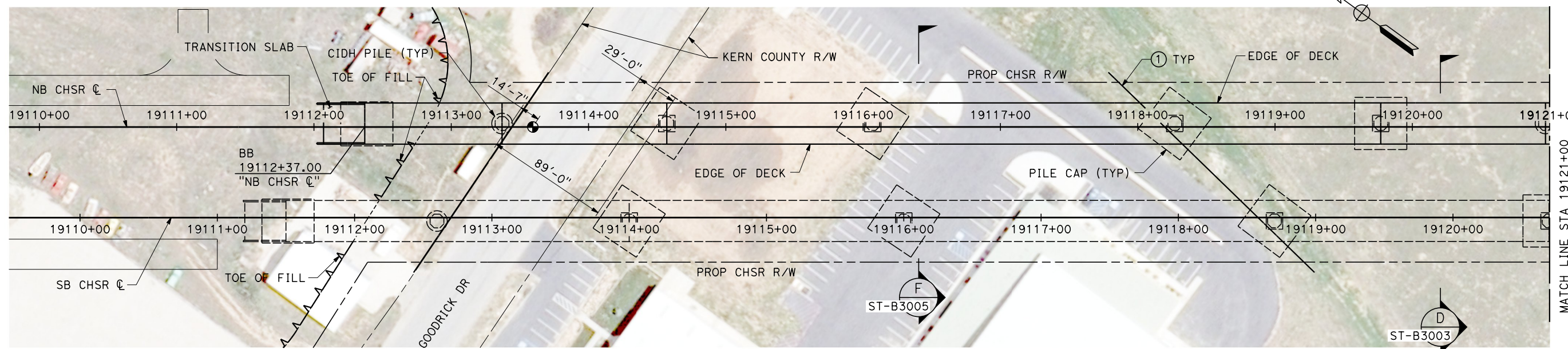
TOTAL LENGTH = 1755'-0" (MEASURED ALONG "NB CHSR ☐")

CIP PS BOX GIRDER OR BALANCED CANTILEVER SEGMENTAL



**ELEVATION**

SCALE 1" = 40'



**PLAN**

SCALE 1" = 40'



1"=40'  
SCALE APPLICABLE FOR FULL SIZE ONLY

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1050 1/7/2021 3:06:34 PM yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,3,5  
TRACK STRUCTURES  
GOODRICK DRIVE-TEHACHAPI BLVD NORTH VIADUCT  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1050  
SCALE  
AS SHOWN  
SHEET NO.  
831

MATCH LINE STA 19121+00  
DRAWING NO. ( ST-J1050A )

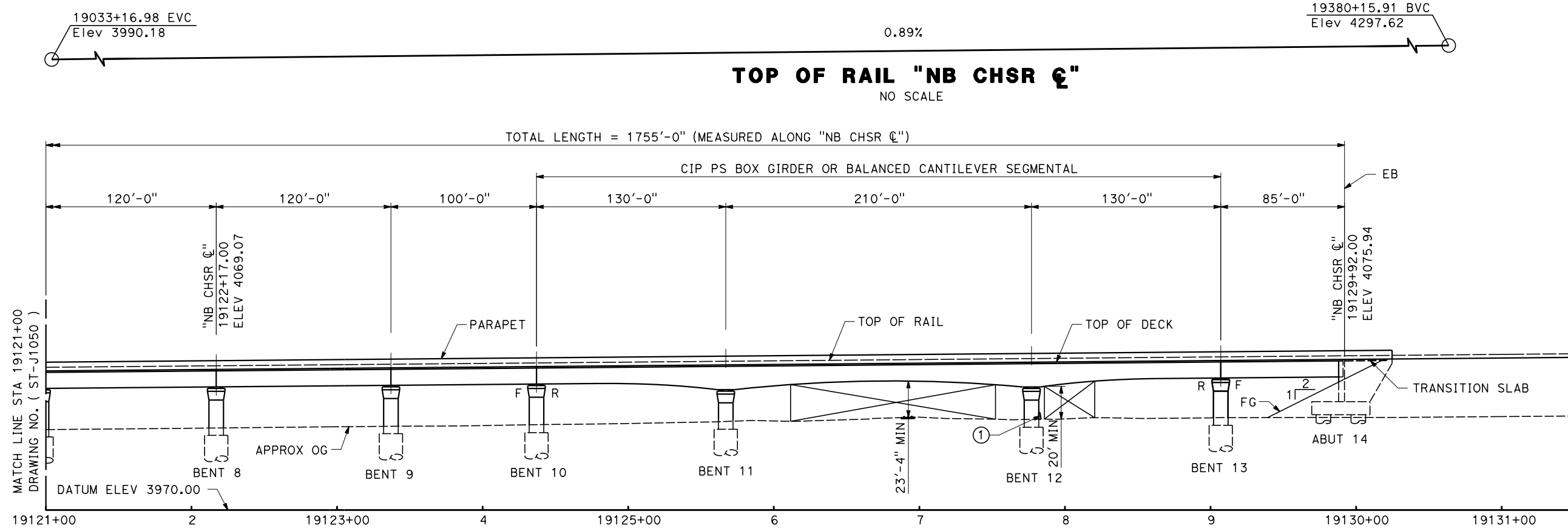
MATCH LINE STA 19121+00  
DRAWING NO. ( ST-J1050A )

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1050A

3:19:16 PM

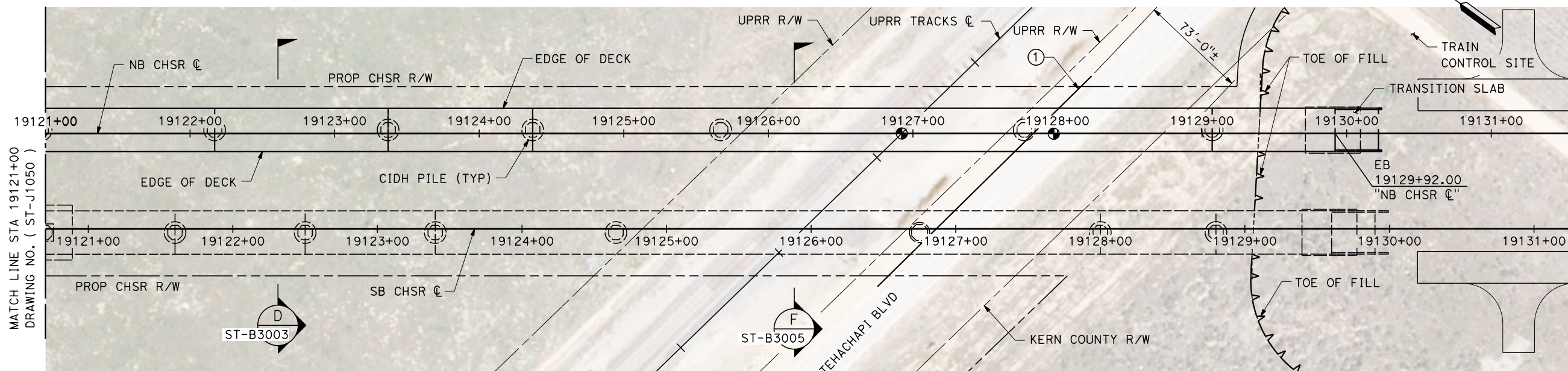
1/7/2021

yihong.wang@tylin.com



**ELEVATION**

SCALE 1" = 40'



**PLAN**

SCALE 1" = 40'



1"=40'  
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



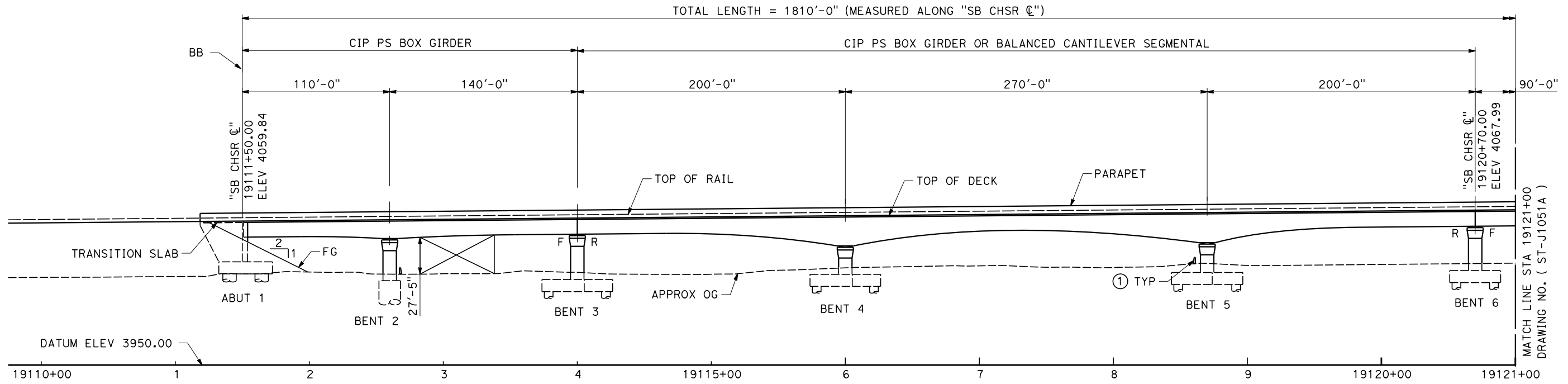
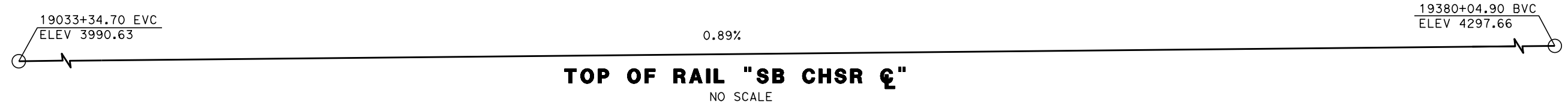
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,3,5  
TRACK STRUCTURES  
GOODRICK DRIVE-TEHACHAPI BLVD NORTH VIADUCT  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44

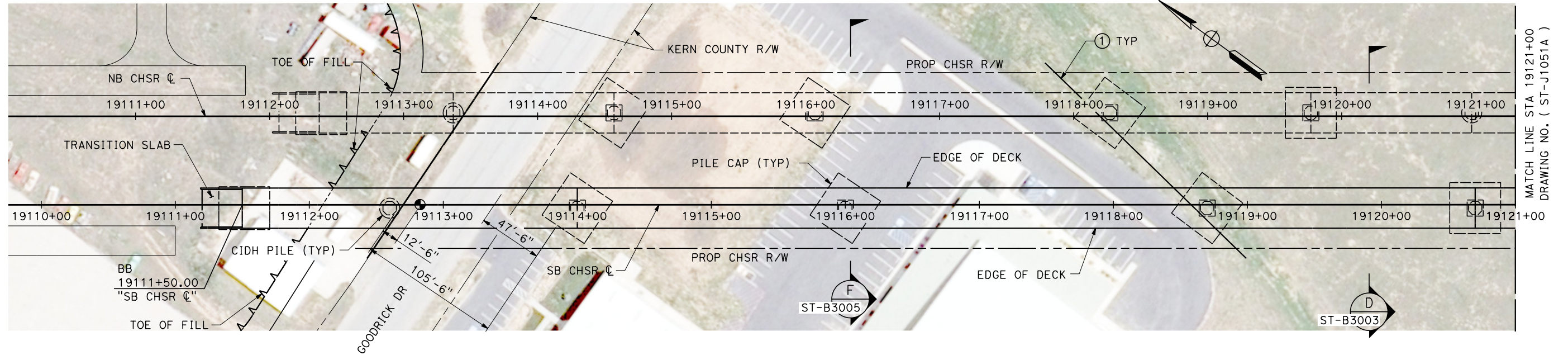
DRAWING NO.  
ST-J1050A

SCALE  
AS SHOWN

SHEET NO.  
832

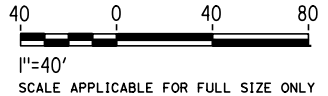


**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1051  
3:03:44 PM  
1/7/2021  
y.hong.wang@tylin.com



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,3,5  
TRACK STRUCTURES  
GOODRICK DRIVE-TEHACHAPI BLVD SOUTH VIADUCT  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1051  
SCALE  
AS SHOWN  
SHEET NO.  
833

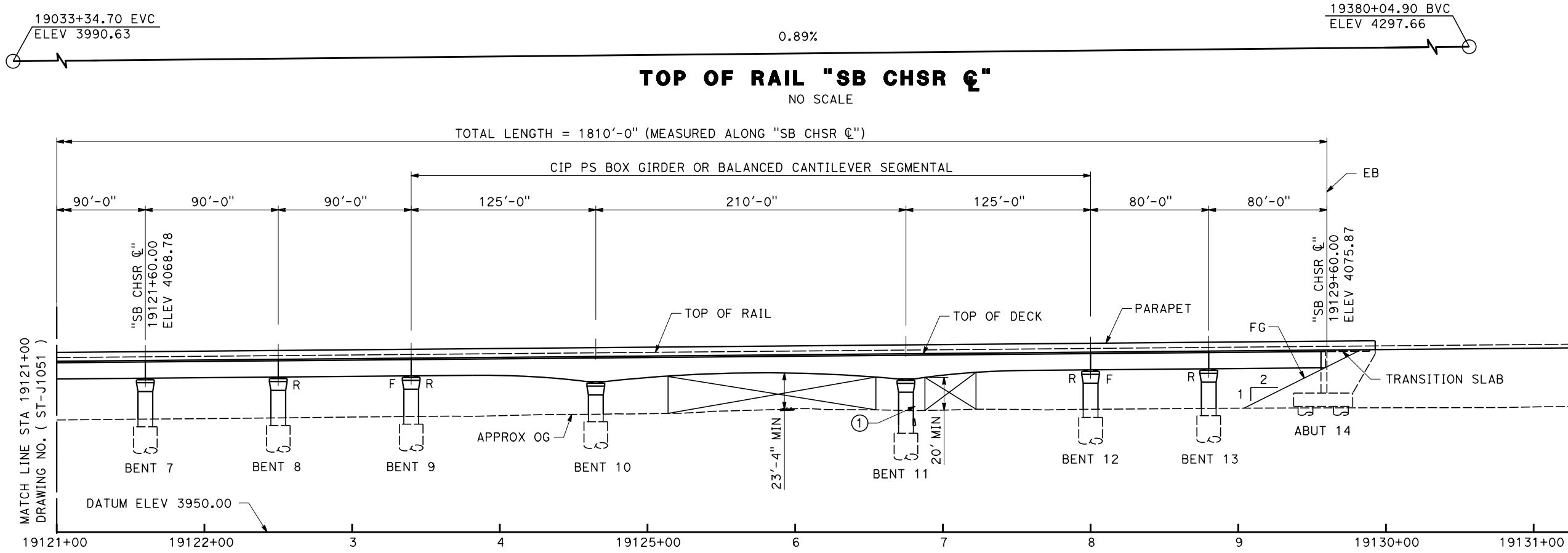
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DRAWING NO. ( ST-J1051A )

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1051A

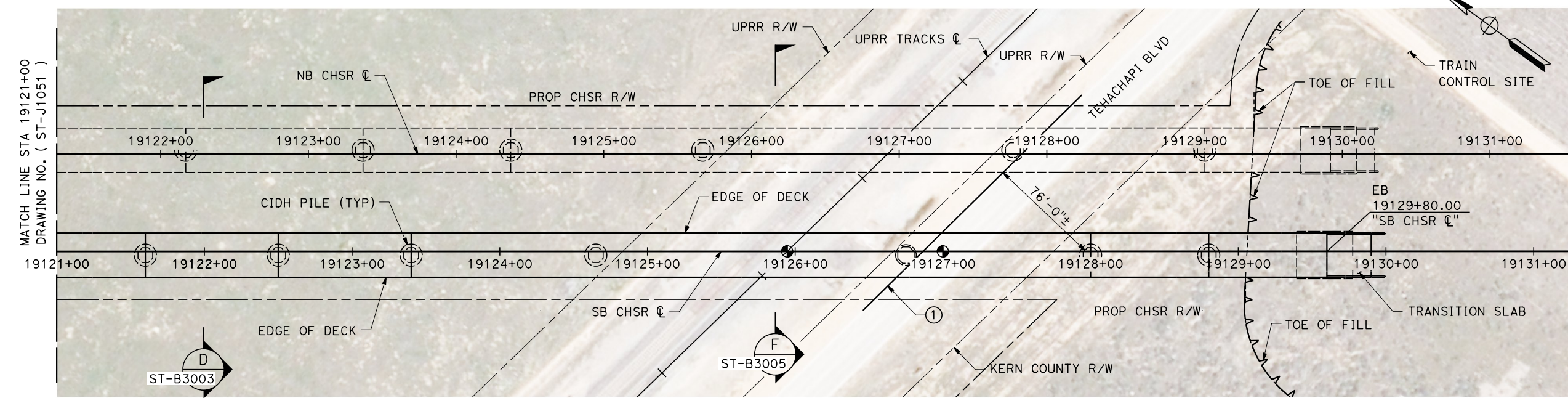
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1/7/2021

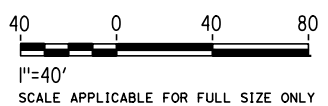
yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



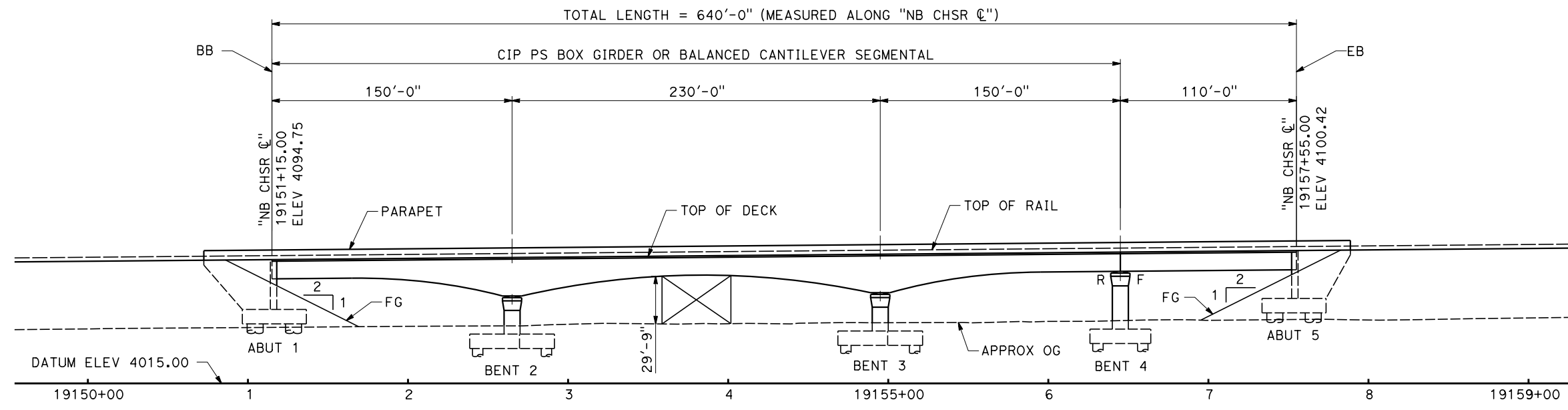
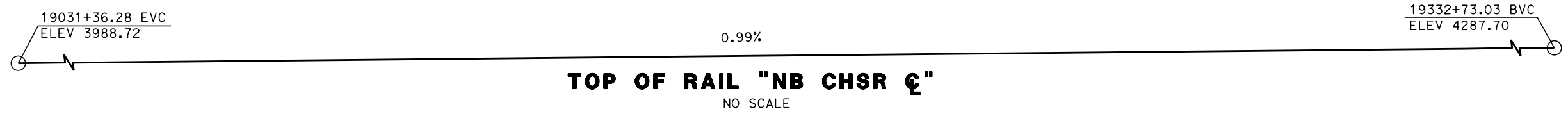
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,3,5  
TRACK STRUCTURES  
GOODRICK DRIVE-TEHACHAPI BLVD SOUTH VIADUCT  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44

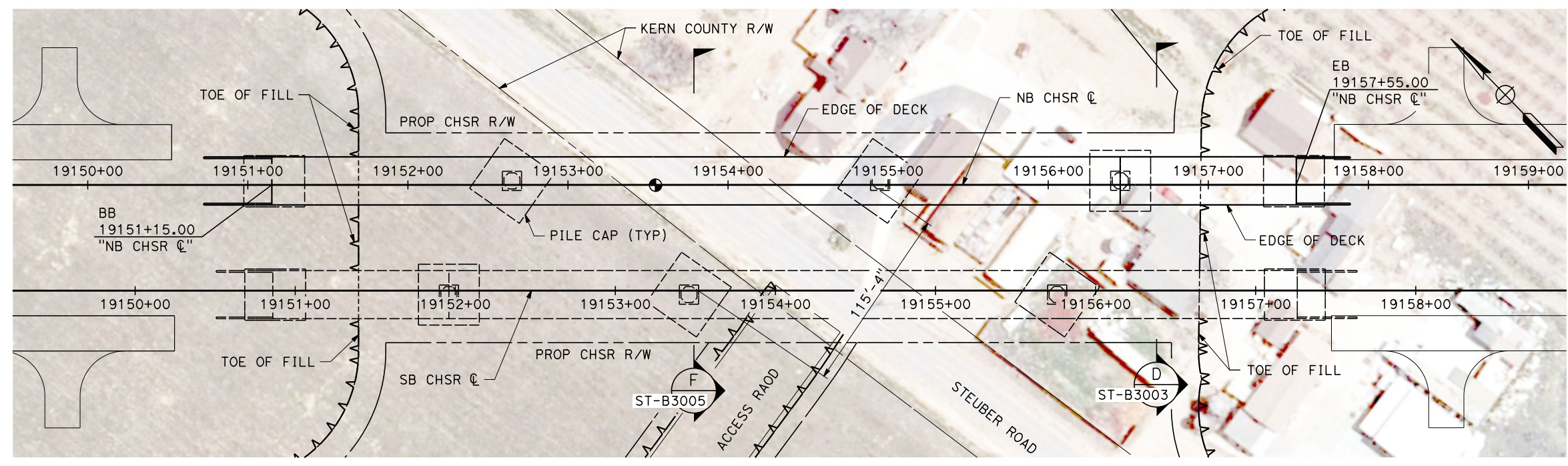
DRAWING NO.  
ST-J1051A

SCALE  
AS SHOWN

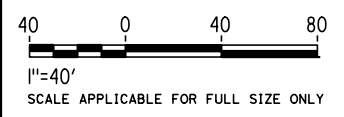
SHEET NO.  
834



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206.00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1052  
3:06:34 PM  
1/7/2021  
yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

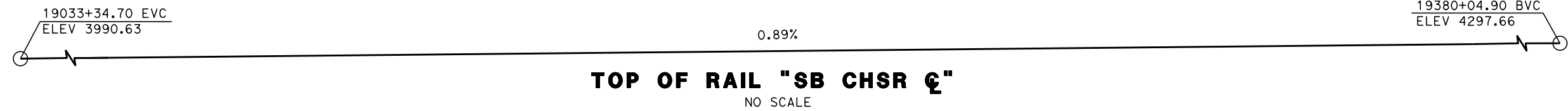
**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**

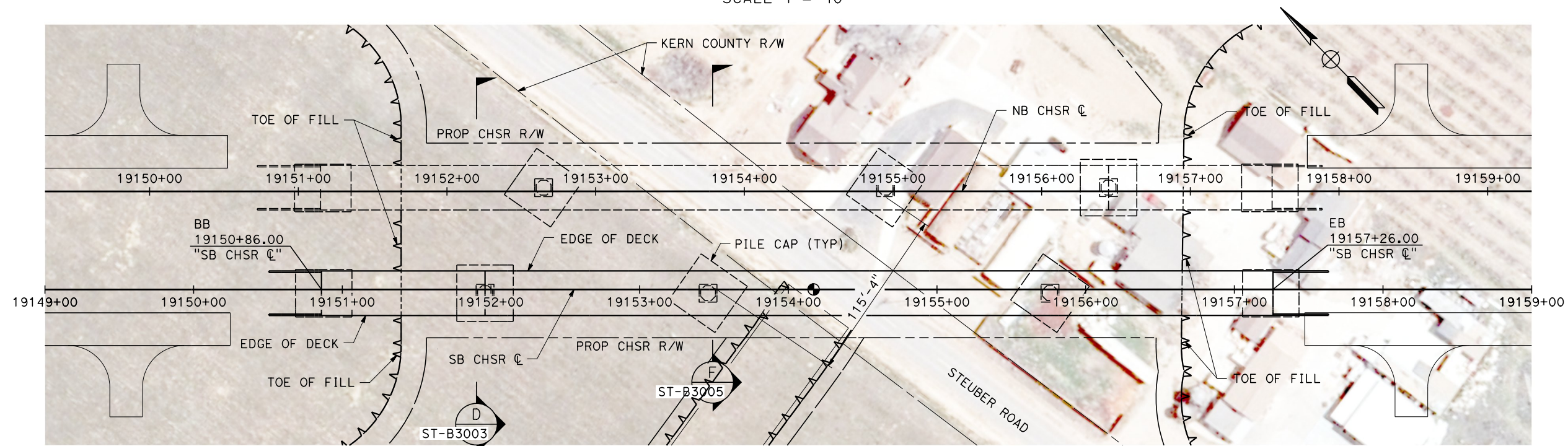


**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,3,5  
TRACK STRUCTURES  
STUBER ROAD NORTH UNDERPASS  
PLAN AND ELEVATION

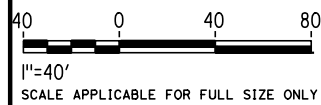
CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1052  
SCALE  
AS SHOWN  
SHEET NO.  
835



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

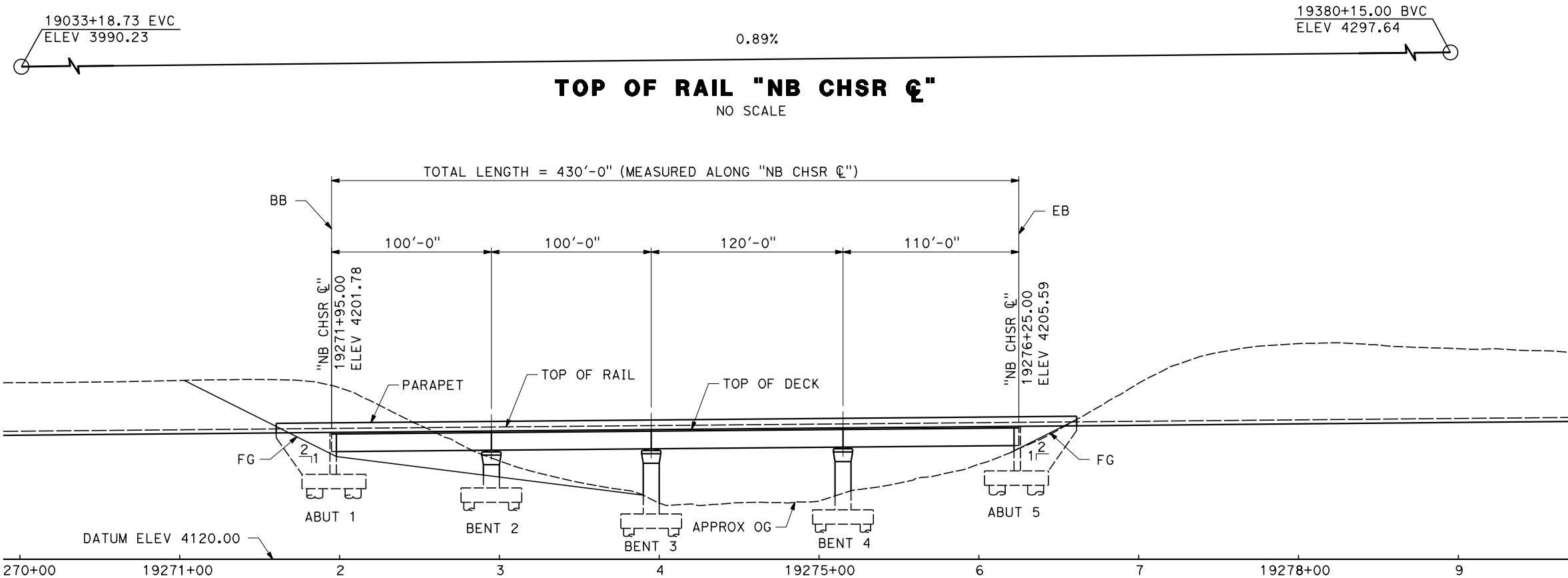
**NOT FOR**  
**CONSTRUCTION**



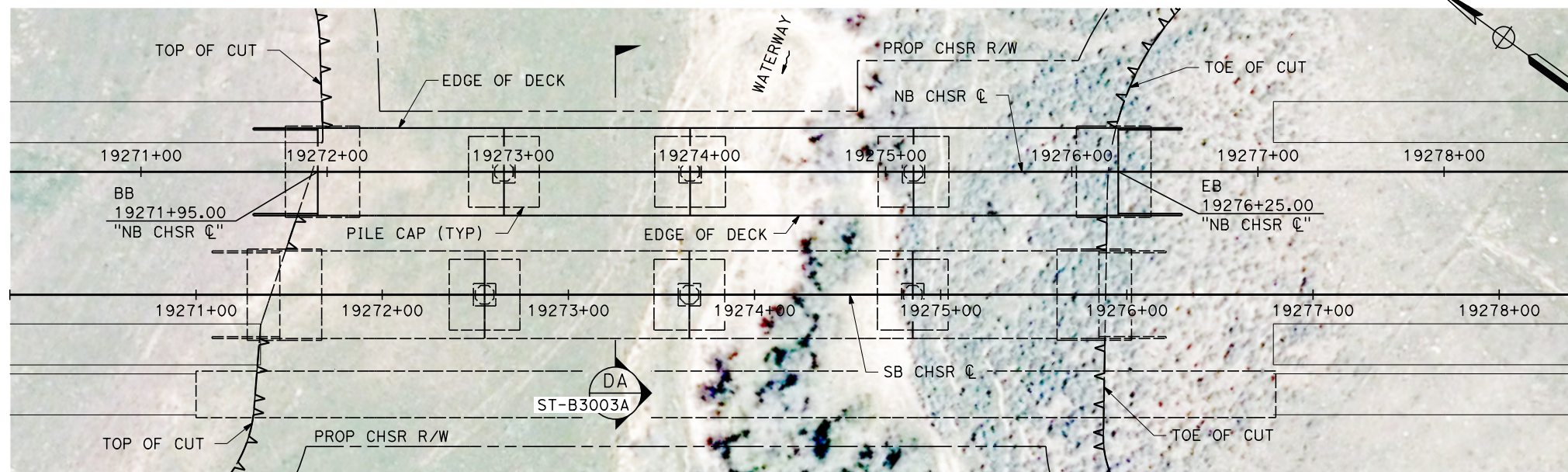
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,3,5  
TRACK STRUCTURES  
STUBER ROAD SOUTH UNDERPASS  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1053  
SCALE  
AS SHOWN  
SHEET NO.  
836

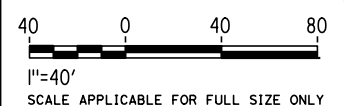
Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1053 3:03:55 PM 1/7/2021 yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206.00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1058  
3:05:56 PM  
1/7/2021  
yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,3,5  
TRACK STRUCTURES  
NORTH UNDERPASS STATION 19271+95 TO 19276+25  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1058  
SCALE  
AS SHOWN  
SHEET NO.  
837

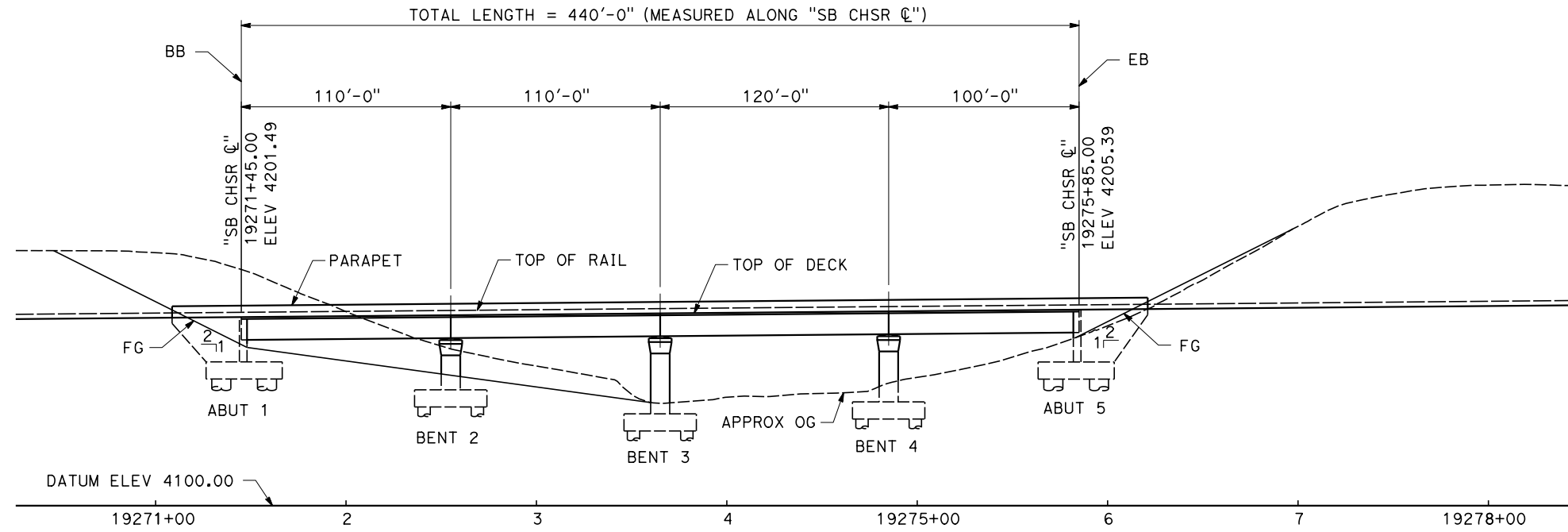


19033+34.70 EVC  
ELEV 3990.63

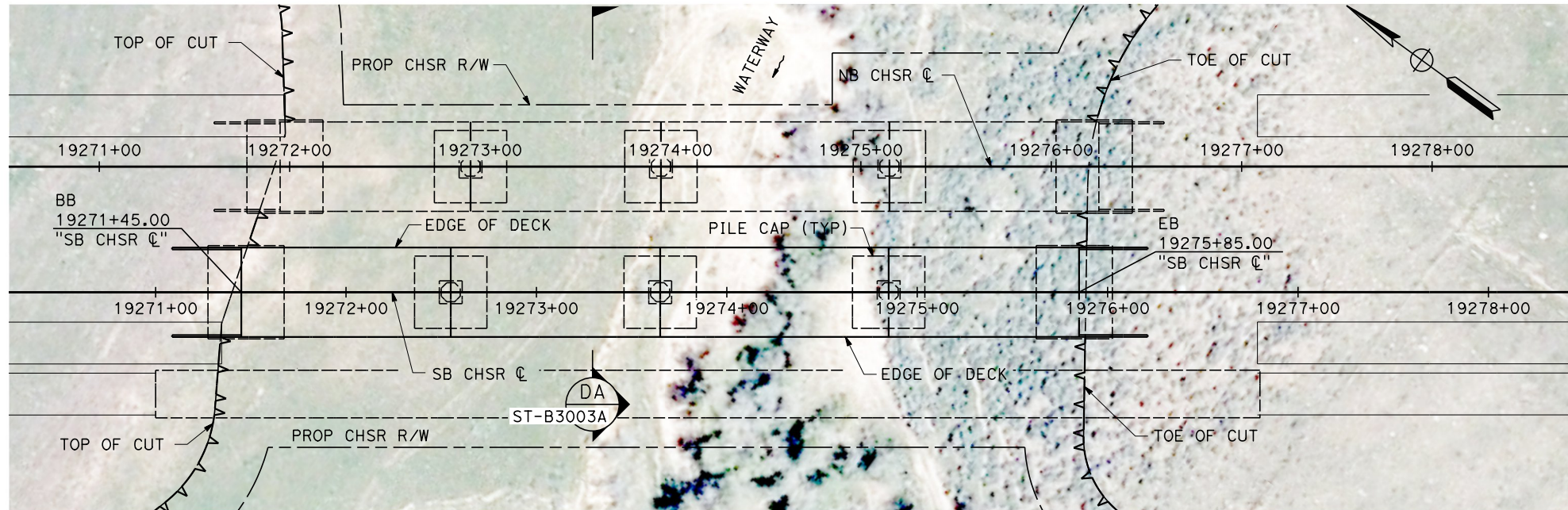
0.89%

19380+04.90 BVC  
ELEV 4297.66

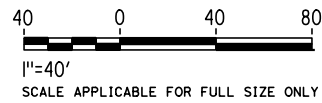
**TOP OF RAIL "SB CHSR C"**  
NO SCALE



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1059 3:03:53 PM 1/7/2021 y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

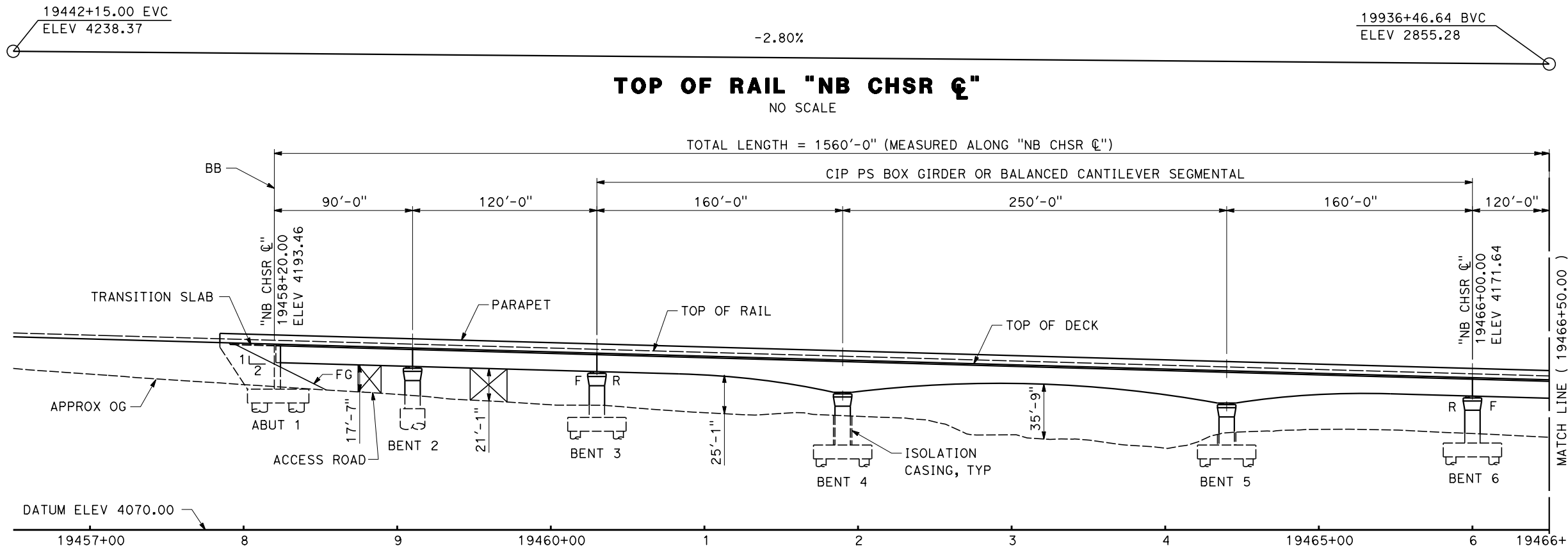
**RECORD SET**  
**PEPD**  
**SUBMITTAL**

**NOT FOR**  
**CONSTRUCTION**

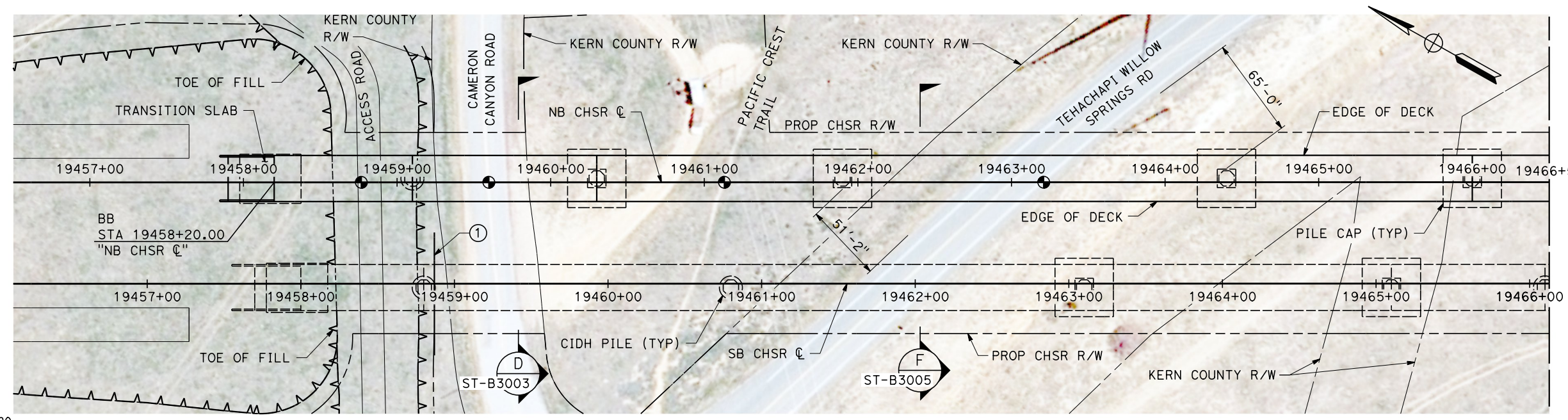


**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,3,5  
TRACK STRUCTURES  
SOUTH UNDERPASS STATION 19271+45 TO 19275+85  
PLAN AND ELEVATION

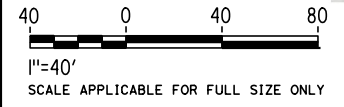
CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1059  
SCALE  
AS SHOWN  
SHEET NO.  
838



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1060

3:07:04 PM

1/7/2021

y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
NORTH VIADUCT STATION 19458+20 TO 19473+80  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44

DRAWING NO.  
ST-J1060

SCALE  
AS SHOWN

SHEET NO.  
839

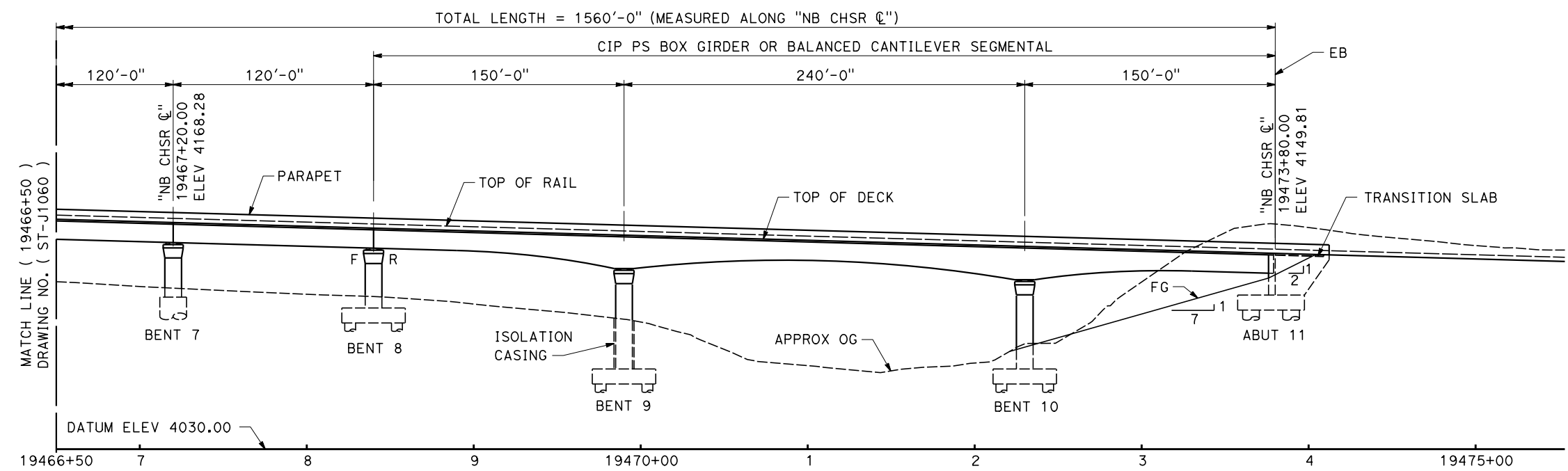
19442+15.00 EVC  
ELEV 4238.37

-2.80%

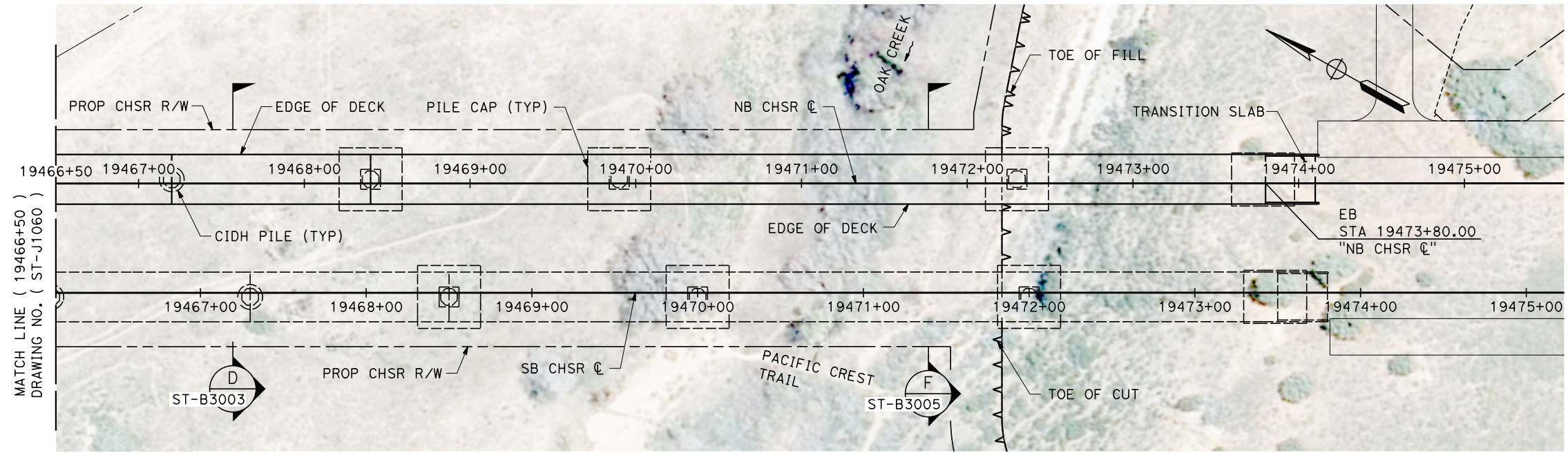
19936+46.64 BVC  
ELEV 2855.28

## TOP OF RAIL "NB CHSR ☐"

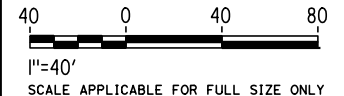
NO SCALE



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1061

3:06:31 PM

1/7/2021

y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
NORTH VIADUCT STATION 19458+20 TO 19473+80  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44

DRAWING NO.  
ST-J1061

SCALE  
AS SHOWN

SHEET NO.  
840

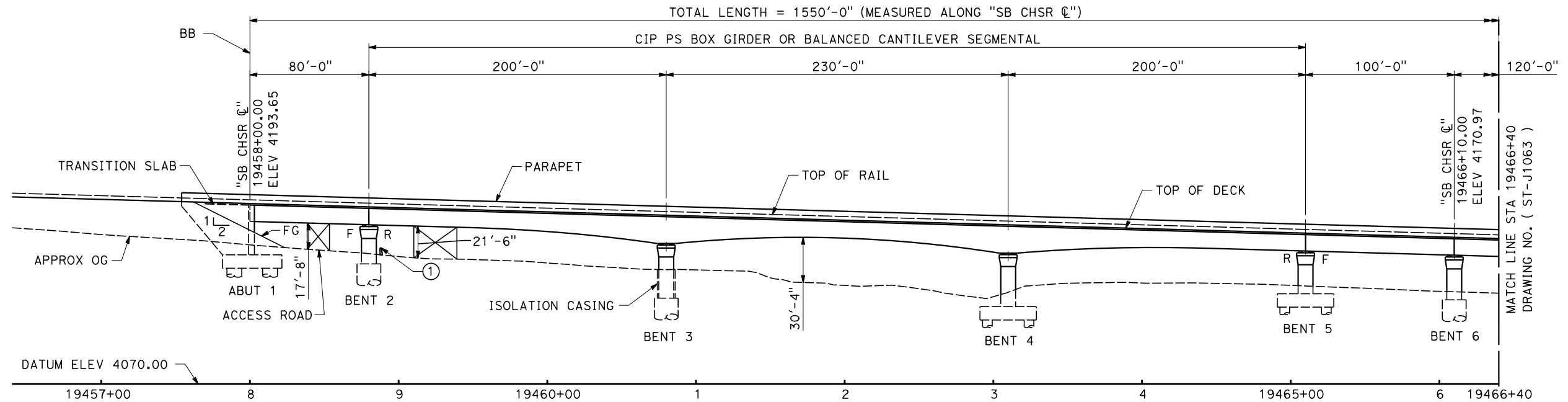
19442+04.90 EVC  
ELEV 4238.32

-2.80%

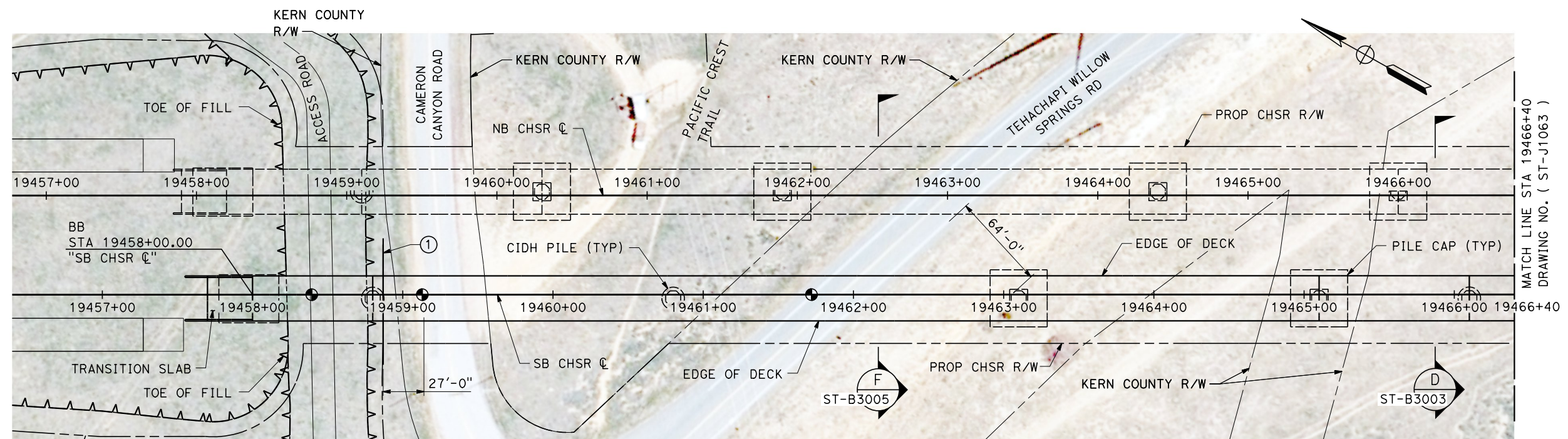
19935+93.65 BVC  
ELEV 2855.43

### TOP OF RAIL "SB CHSR ☐"

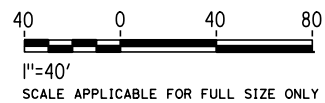
NO SCALE



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1062  
3:03:48 PM  
1/7/2021  
y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
SOUTH VIADUCT STATION 19458+00 TO 19473+50  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1062  
SCALE  
AS SHOWN  
SHEET NO.  
841

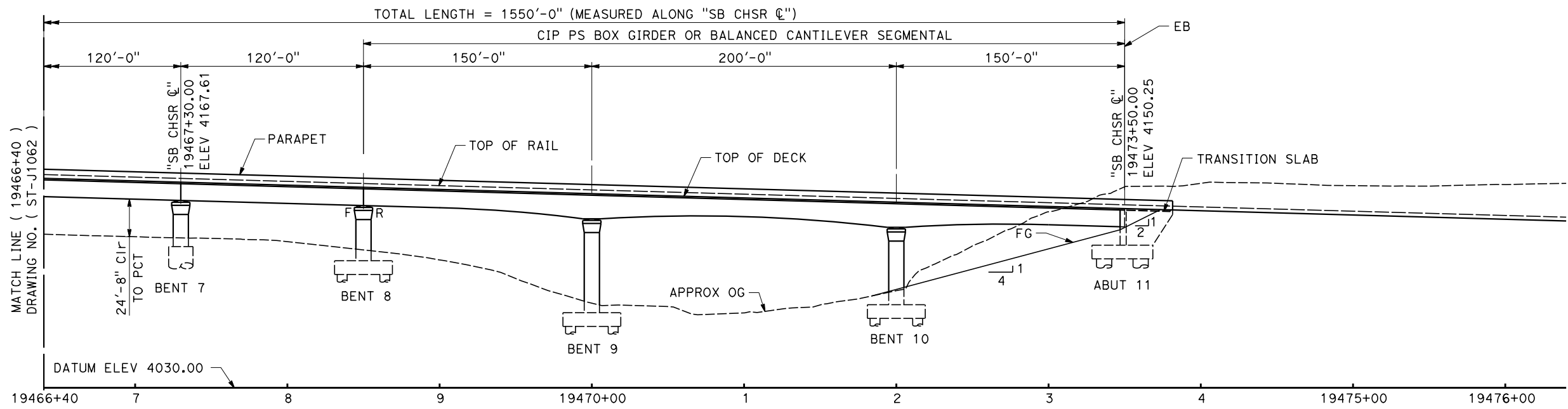
19442+04.90 EVC  
ELEV 4238.32

-2.80%

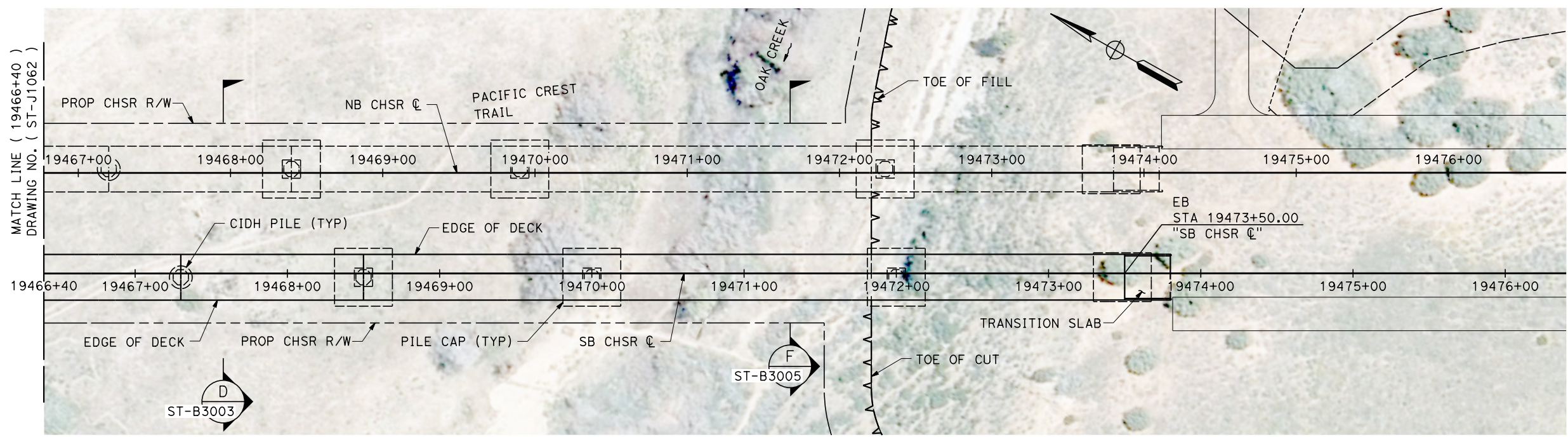
19935+93.65 BVC  
ELEV 2855.43

**TOP OF RAIL "SB CHSR ☐"**

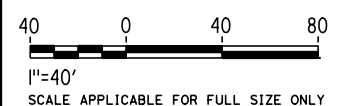
NO SCALE



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1063  
3:04:41 PM  
1/7/2021  
y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

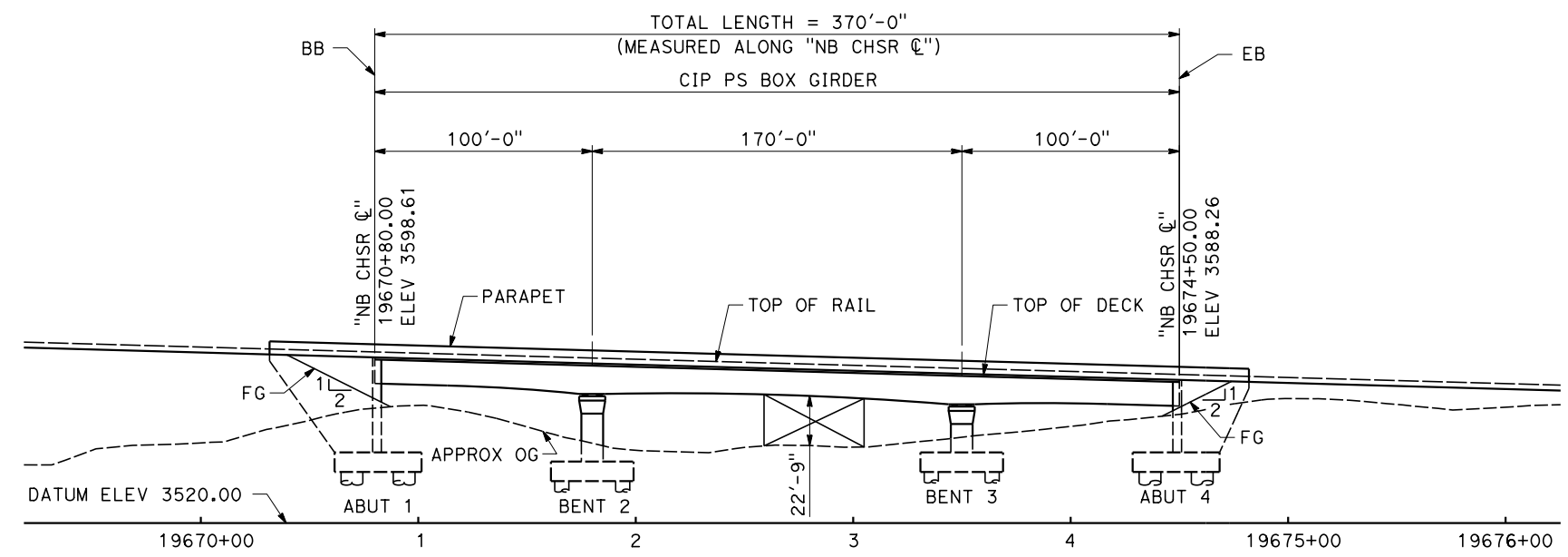
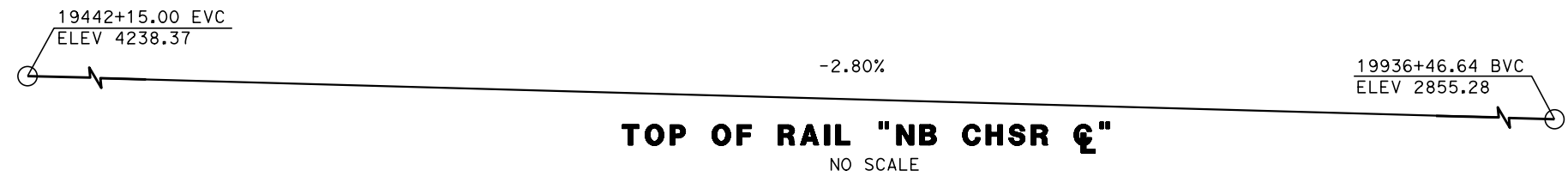
**NOT FOR**  
**CONSTRUCTION**

**TYLIN INTERNATIONAL**

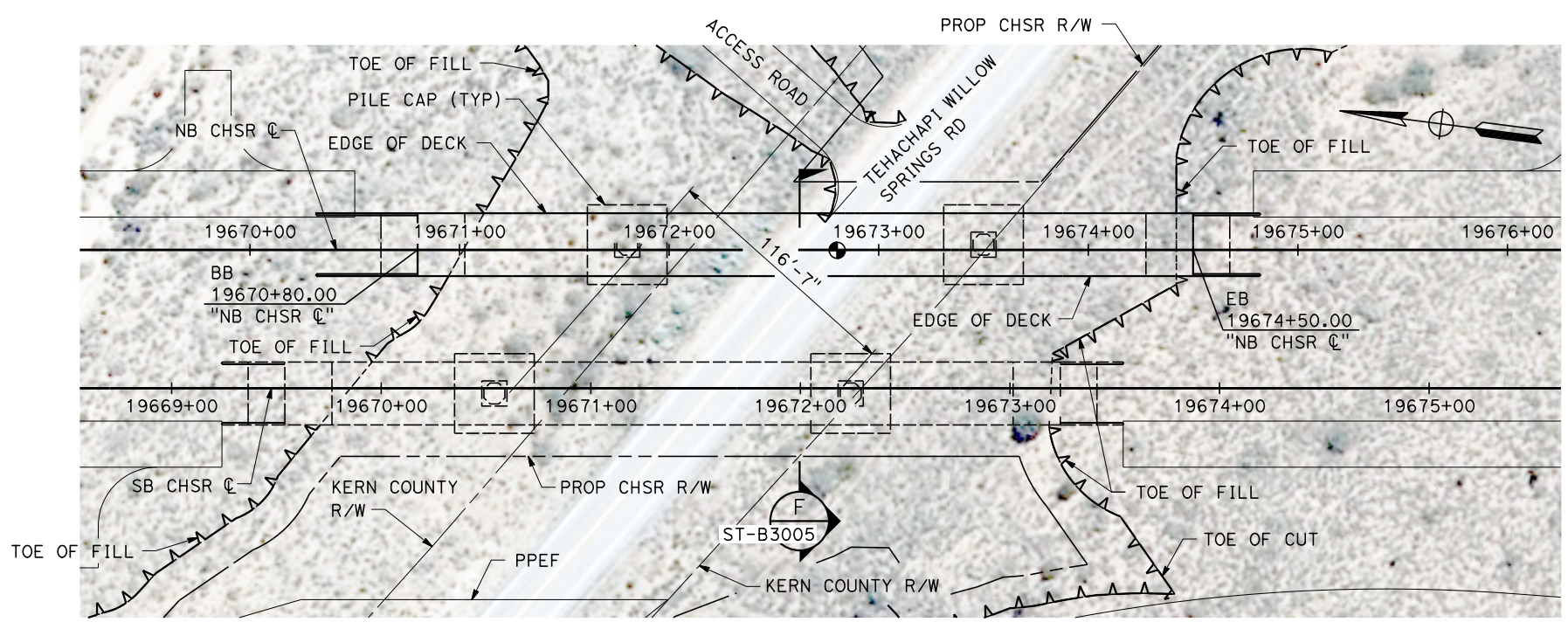


**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
SOUTH VIADUCT STATION 19458+00 TO 19473+50  
PLAN AND ELEVATION

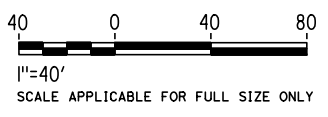
CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1063  
SCALE  
AS SHOWN  
SHEET NO.  
842



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1064  
3:06:10 PM  
1/7/2021  
y.hong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
TEHACHAPI WILLOW SPRINGS ROAD NORTH UNDERPASS - 2  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1064  
SCALE  
AS SHOWN  
SHEET NO.  
843

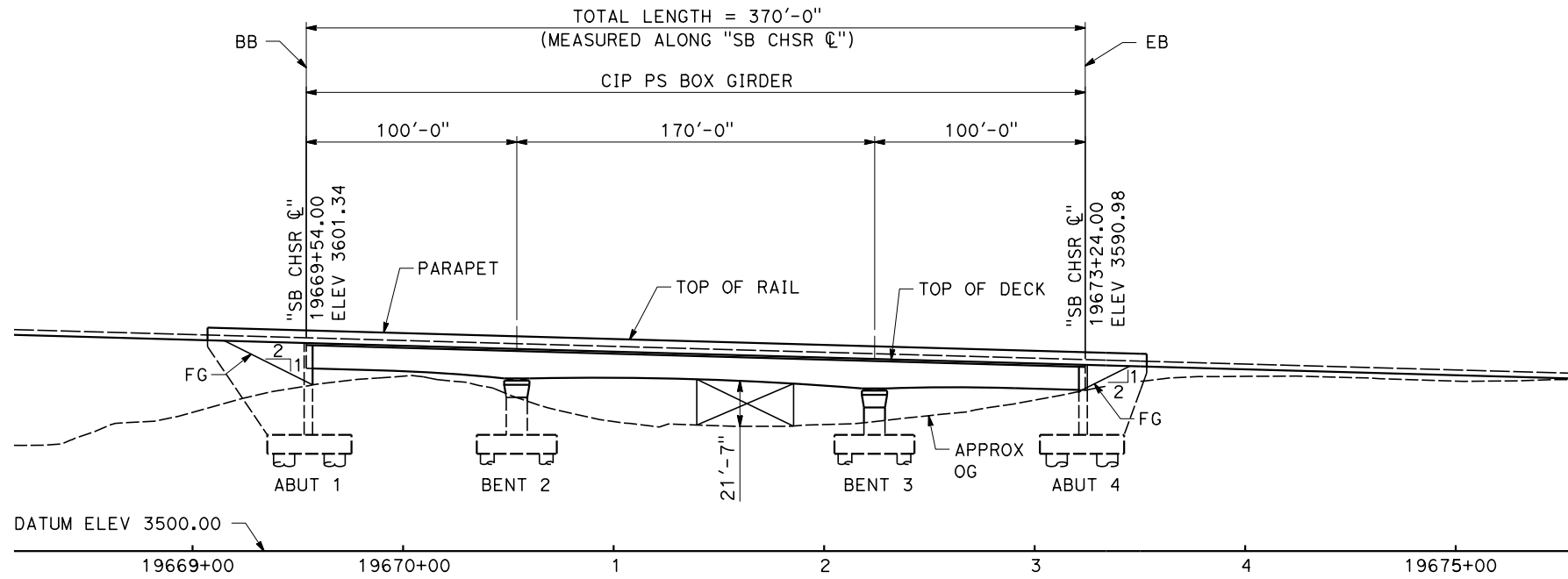
19442+04.90 EVC  
ELEV 4238.32

-2.80%

19935+93.65 BVC  
ELEV 2855.43

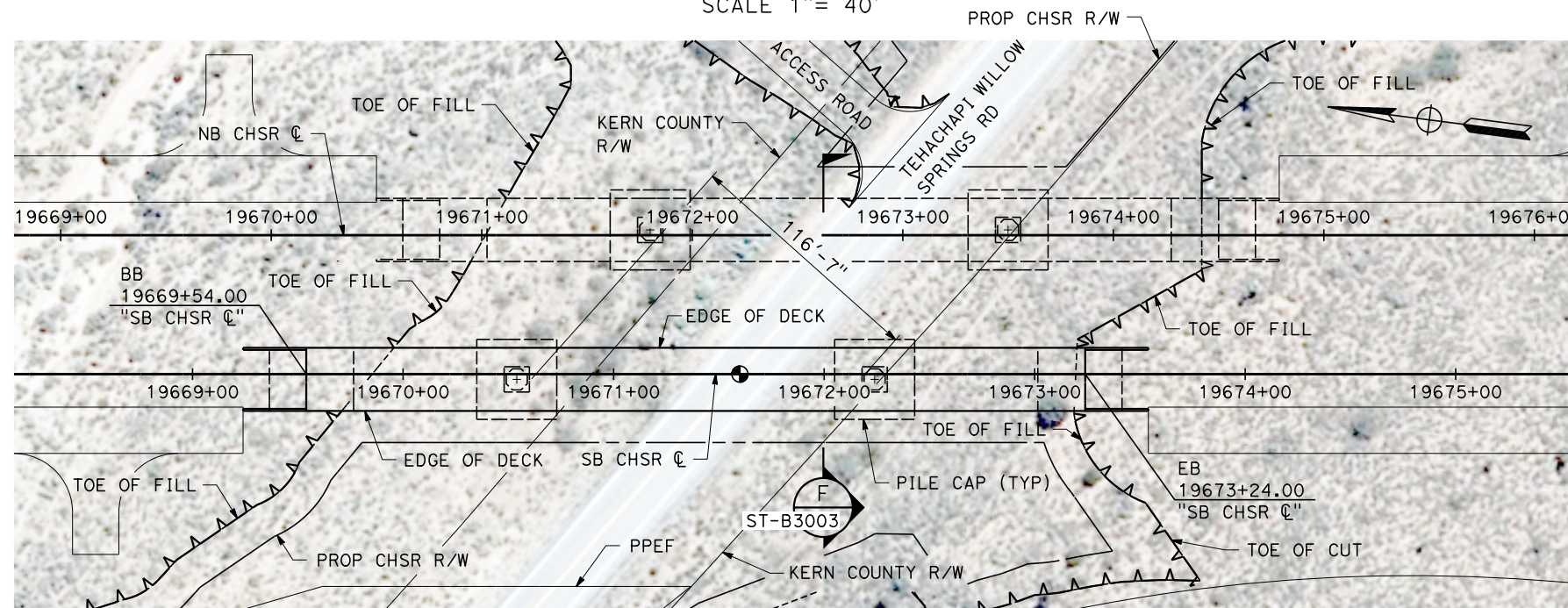
**TOP OF RAIL "SB CHSR ☉"**

NO SCALE



**ELEVATION**

SCALE 1" = 40'



**PLAN**

SCALE 1" = 40'



1"=40'  
SCALE APPLICABLE FOR FULL SIZE ONLY

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1065

3:04:43 PM

1/7/2021

yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

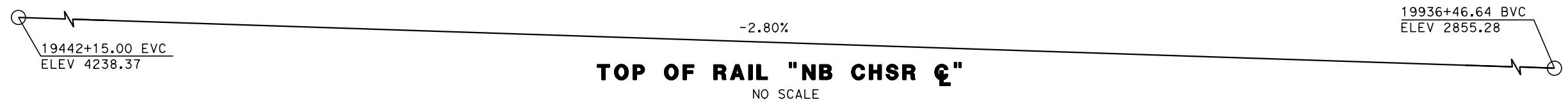
**NOT FOR  
CONSTRUCTION**



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

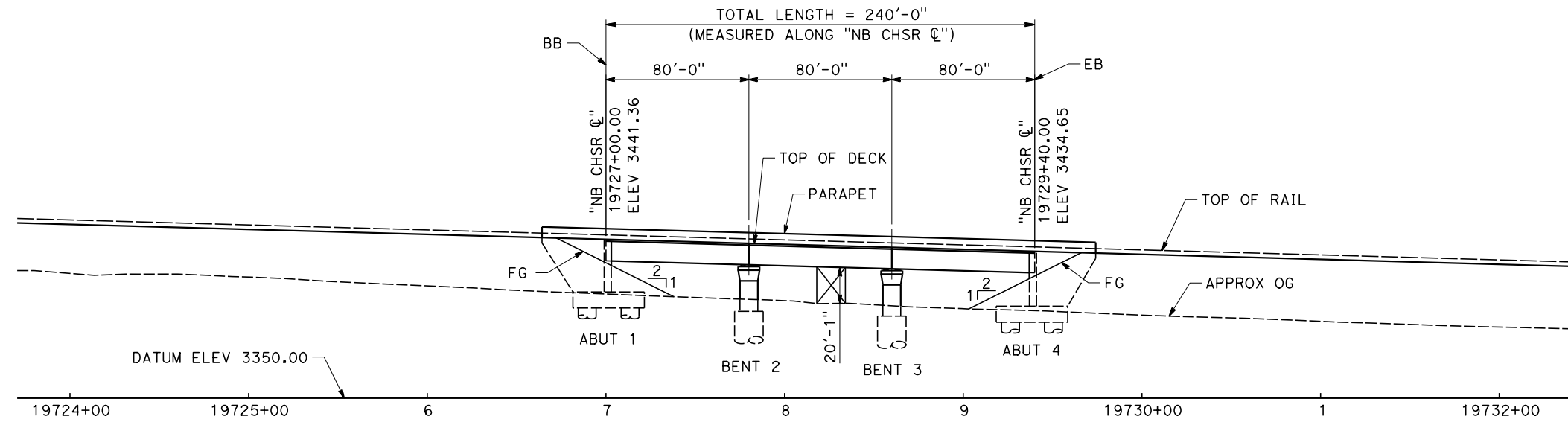
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
TEHACHAPI WILLOW SPRINGS ROAD SOUTH UNDERPASS - 2  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1065  
SCALE  
AS SHOWN  
SHEET NO.  
844



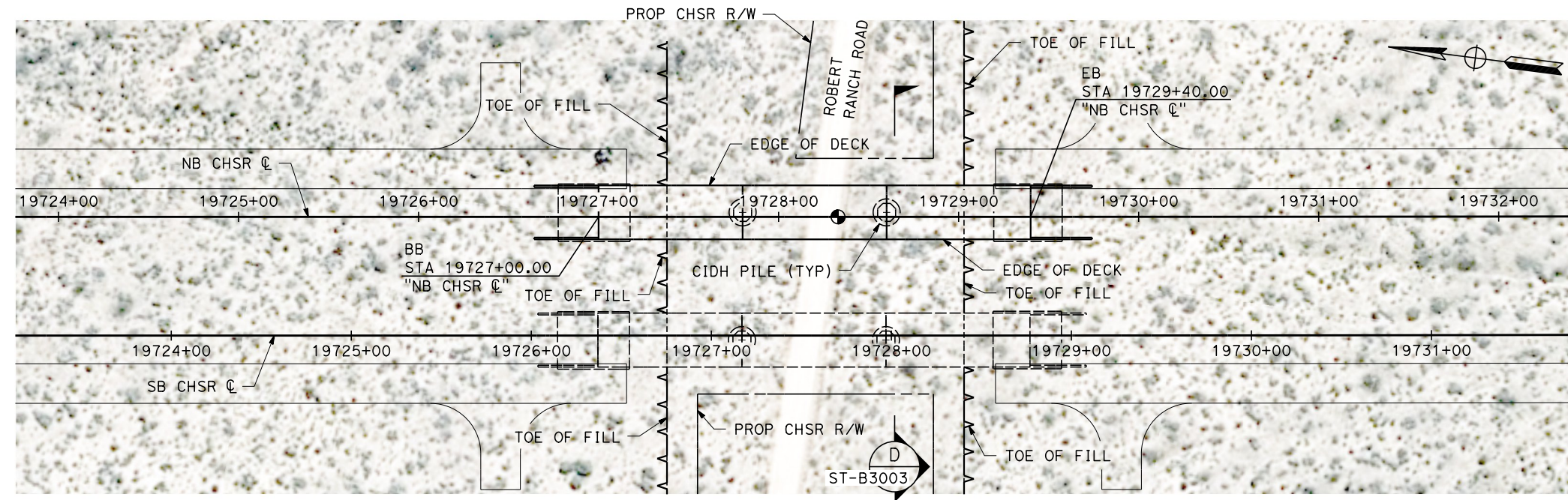
**TOP OF RAIL "NB CHSR C"**

NO SCALE



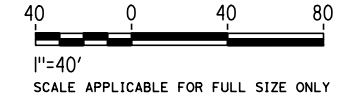
**ELEVATION**

SCALE 1" = 40'



**PLAN**

SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1066 3:09:40 PM 1/7/2021 yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

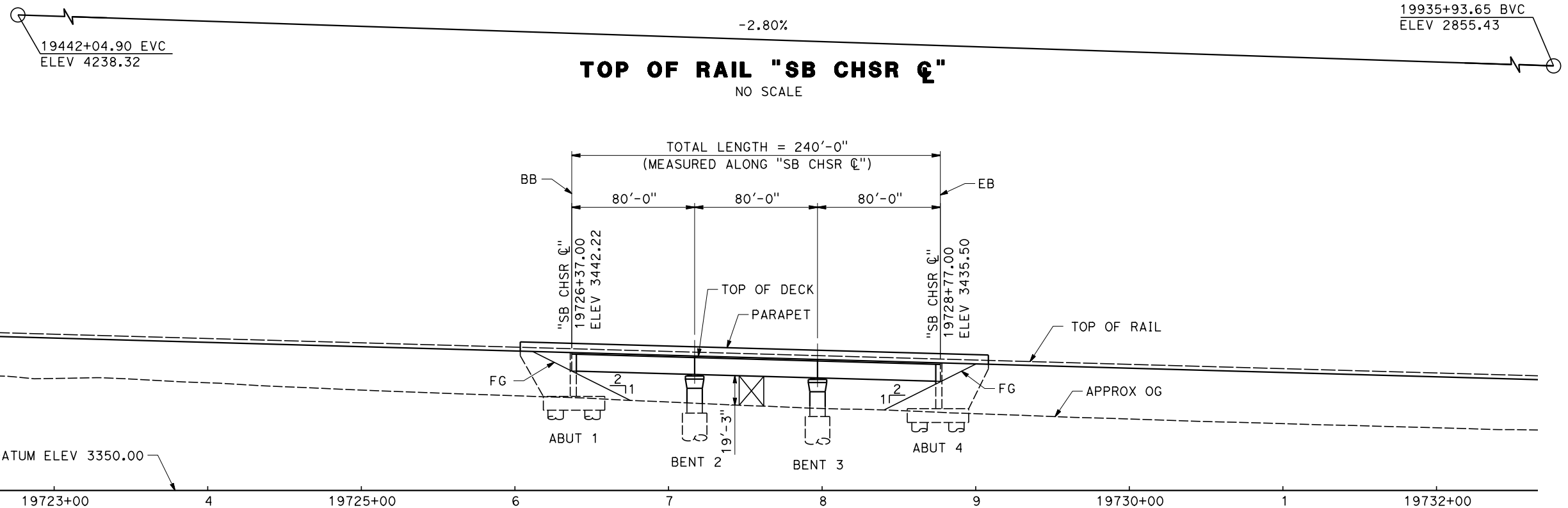
**NOT FOR  
CONSTRUCTION**



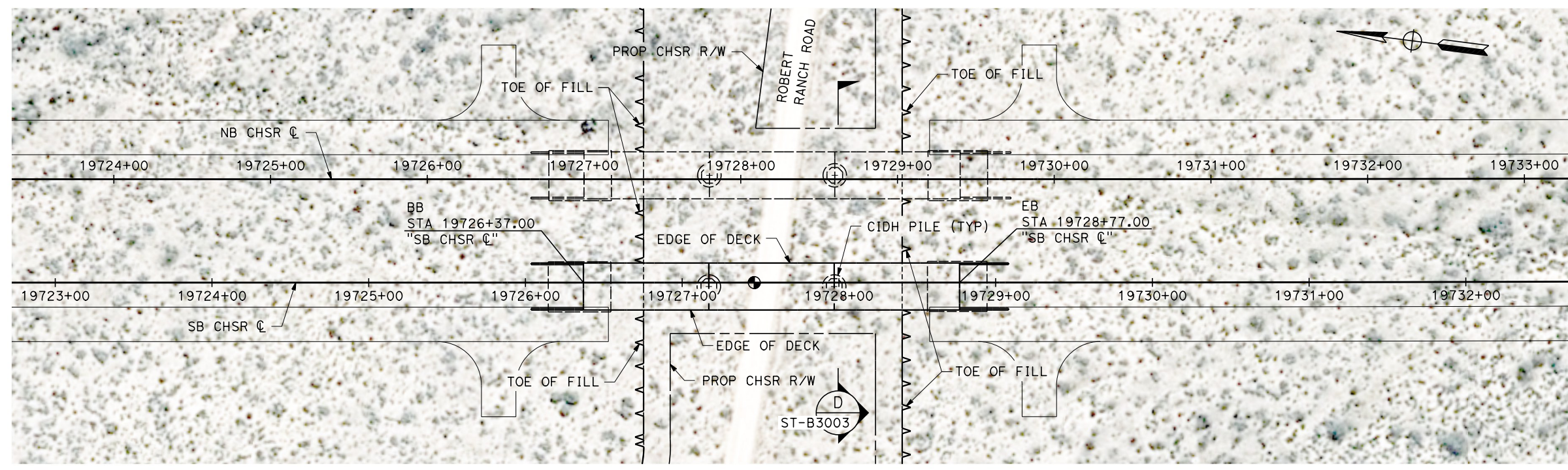
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
ROBERT RANCH RD NORTH UNDERPASS  
PLAN AND ELEVATION

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**ST-J1066**  
SCALE  
**AS SHOWN**  
SHEET NO.  
**845**

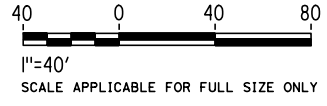




**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1067  
3:08:24 PM  
1/7/2021  
yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

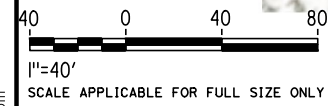
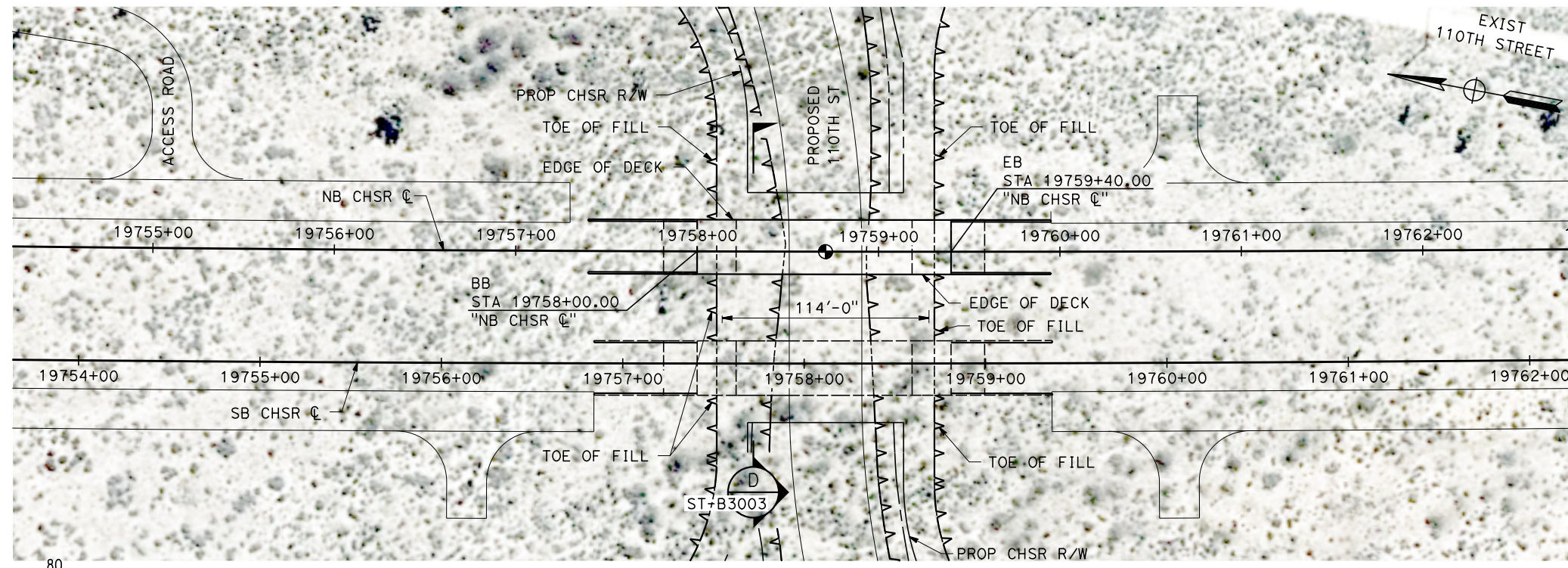
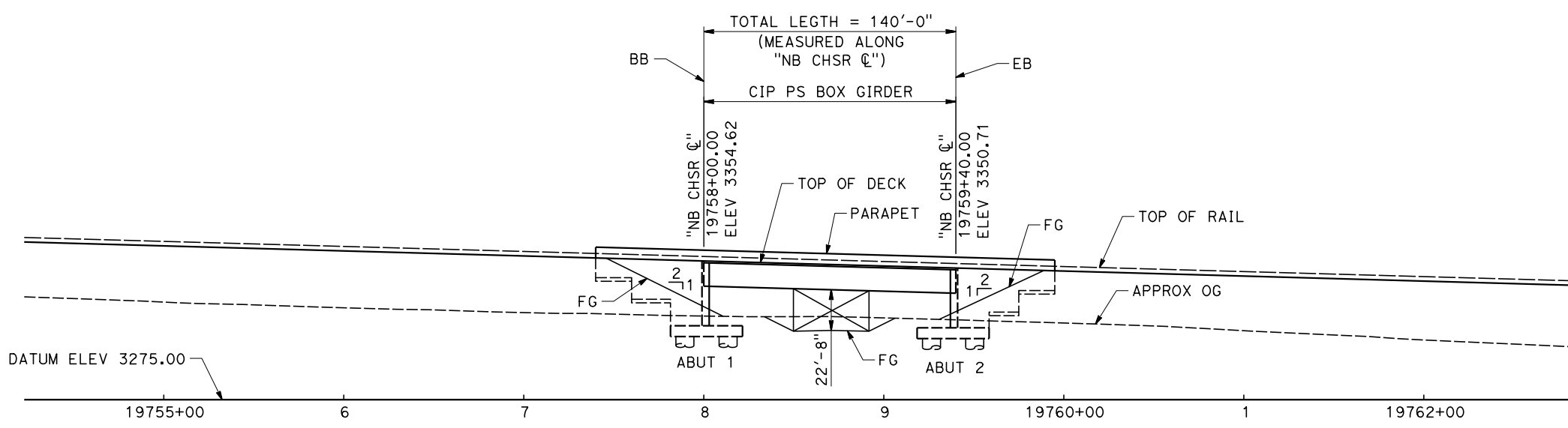
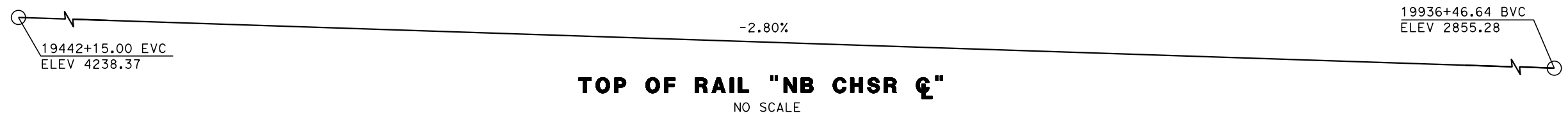
**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
ROBERT RANCH RD SOUTH UNDERPASS  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1067  
SCALE  
AS SHOWN  
SHEET NO.  
846

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1068  
3:09:37 PM  
1/7/2021  
yihong.wang@tylin.com



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



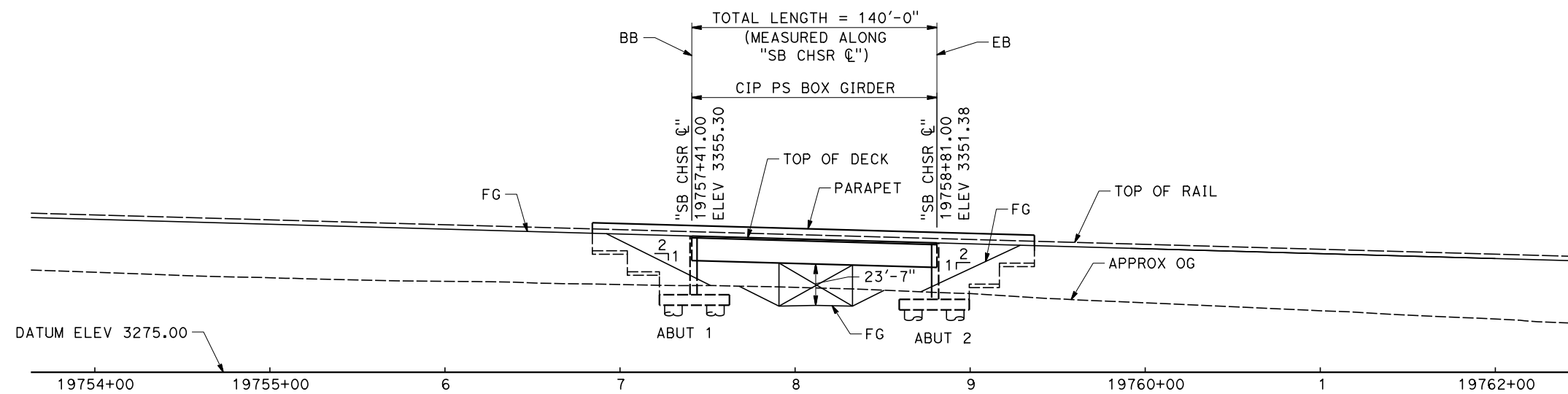
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
110TH STREET NORTH UNDERPASS  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1068  
SCALE  
AS SHOWN  
SHEET NO.  
847

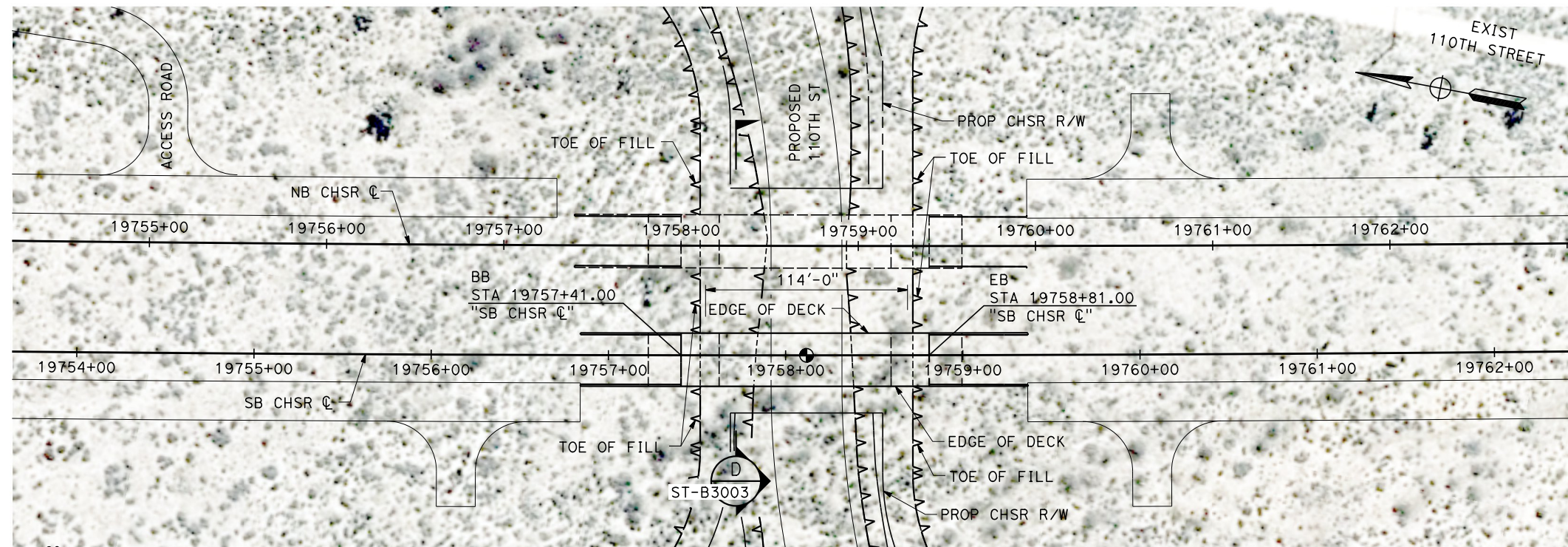
Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1069 3:08:51 PM 1/7/2021 yihong.wang@tylin.com



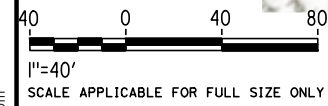
**TOP OF RAIL "SB CHSR C"**  
NO SCALE



**ELEVATION**  
SCALE 1"= 40'



**PLAN**  
SCALE 1"= 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

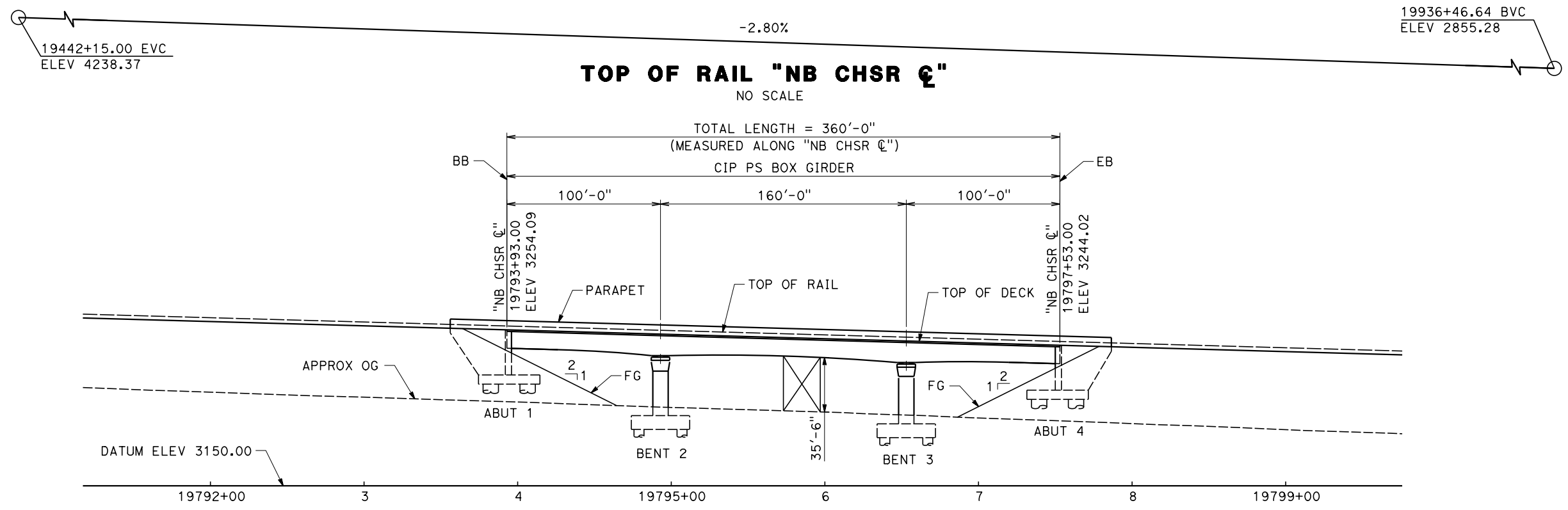
**NOT FOR**  
**CONSTRUCTION**



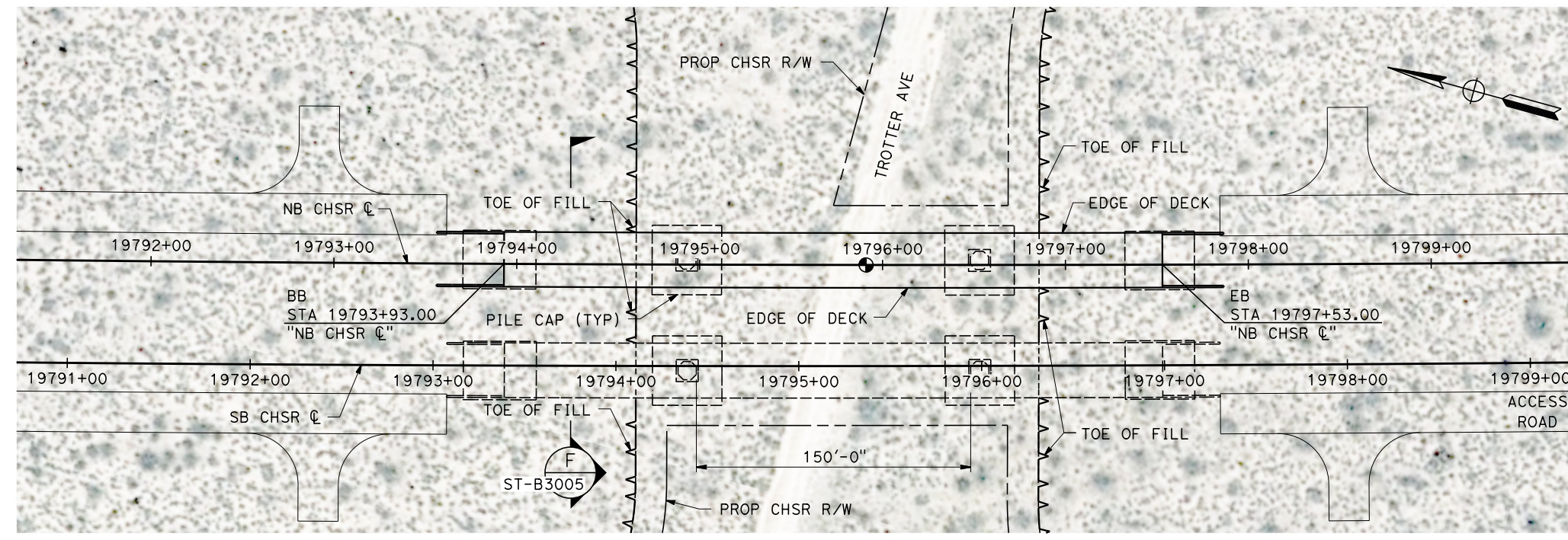
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
110TH STREET SOUTH UNDERPASS  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1069  
SCALE  
AS SHOWN  
SHEET NO.  
848

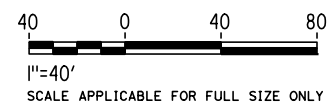
Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1070 3:09:48 PM 1/7/2021 yihong.wang@tylin.com



**ELEVATION**  
SCALE 1"= 40'



**PLAN**  
SCALE 1"= 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

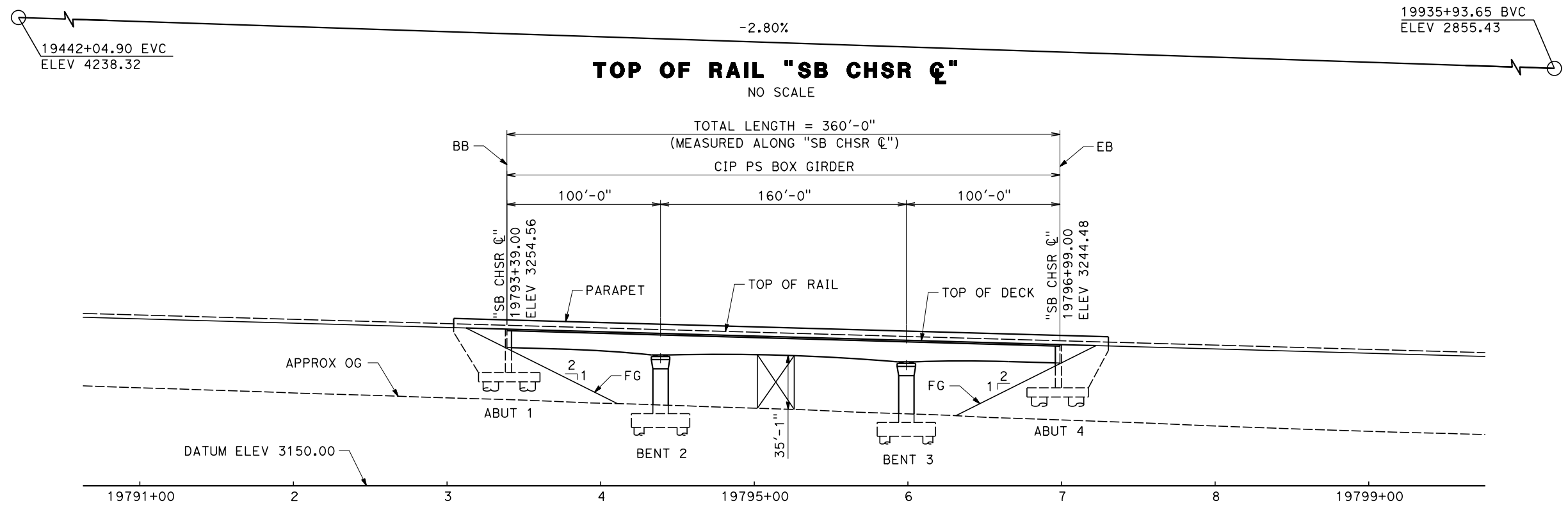
**NOT FOR**  
**CONSTRUCTION**



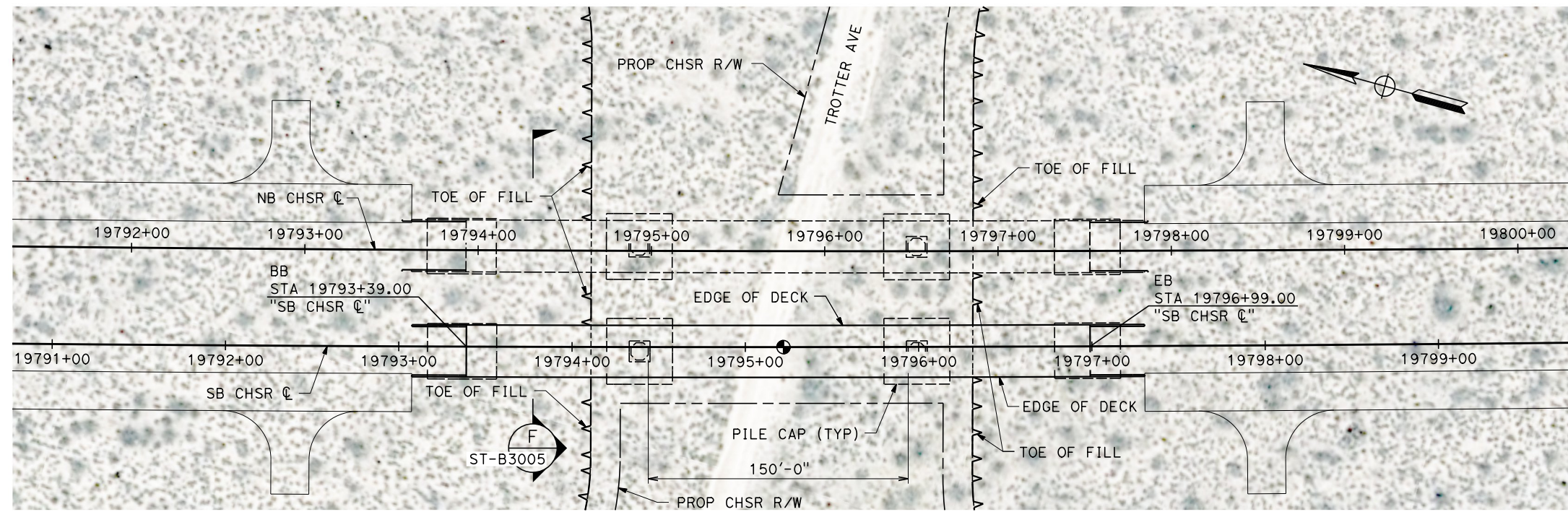
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
TROTTER AVENUE NORTH UNDERPASS  
PLAN AND ELEVATION

CONTRACT NO.  
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AS SHOWN  
SHEET NO.  
849

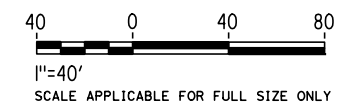
Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1071 3:08:35 PM 1/7/2021 y.hong.wang@tylin.com



**ELEVATION**  
SCALE 1"= 40'



**PLAN**  
SCALE 1"= 40'

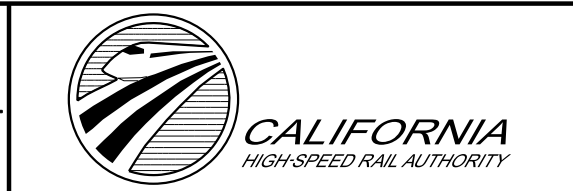


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
TROTTER AVENUE SOUTH UNDERPASS  
PLAN AND ELEVATION

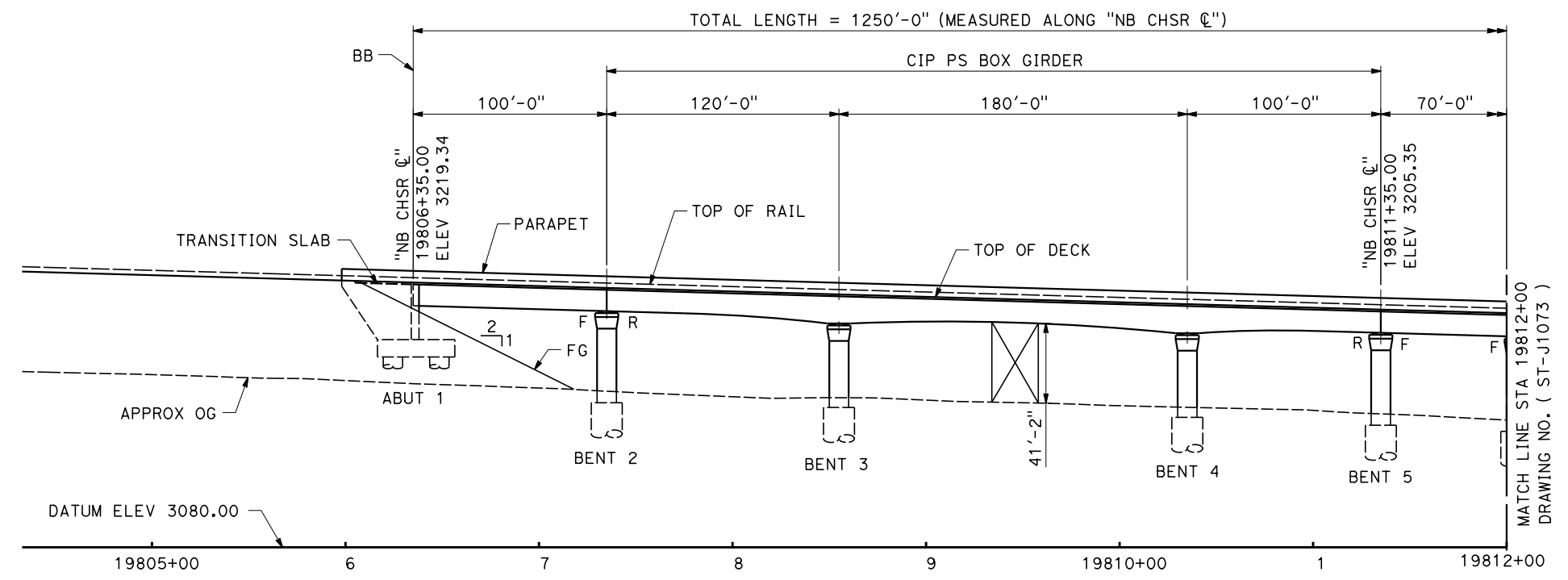
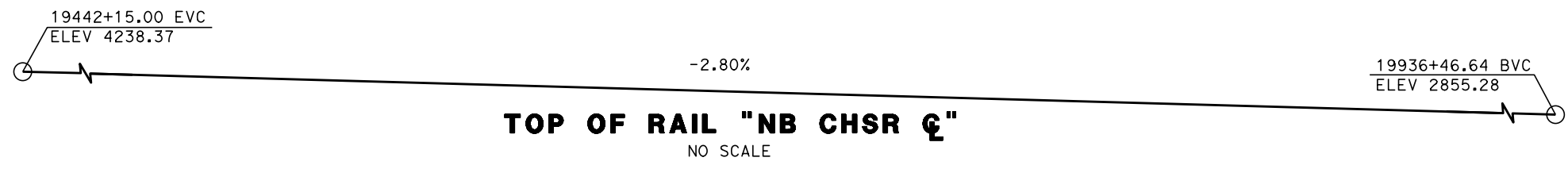
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HSR13-44  
DRAWING NO.  
ST-J1071  
SCALE  
AS SHOWN  
SHEET NO.  
850

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet Files\ST\BP-ST-J1072

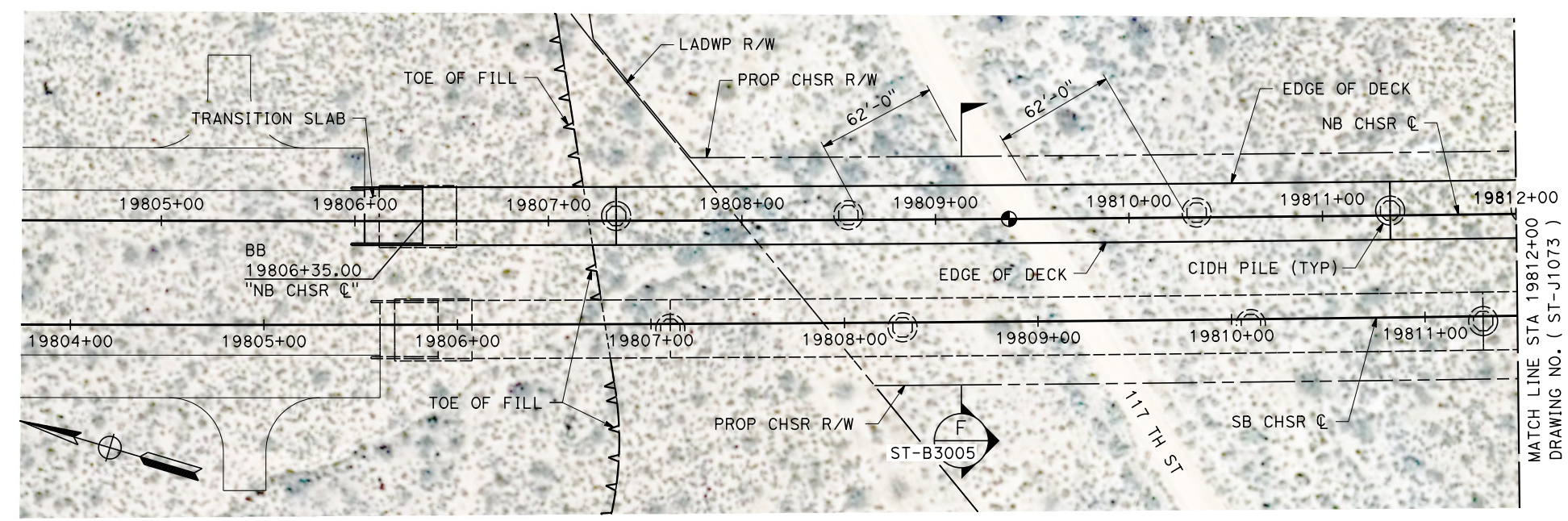
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1/7/2021

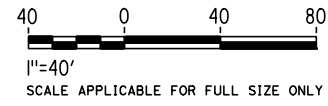
yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**

DRAWN BY  
**Y. WANG**

CHECKED BY  
**R. BARTON**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



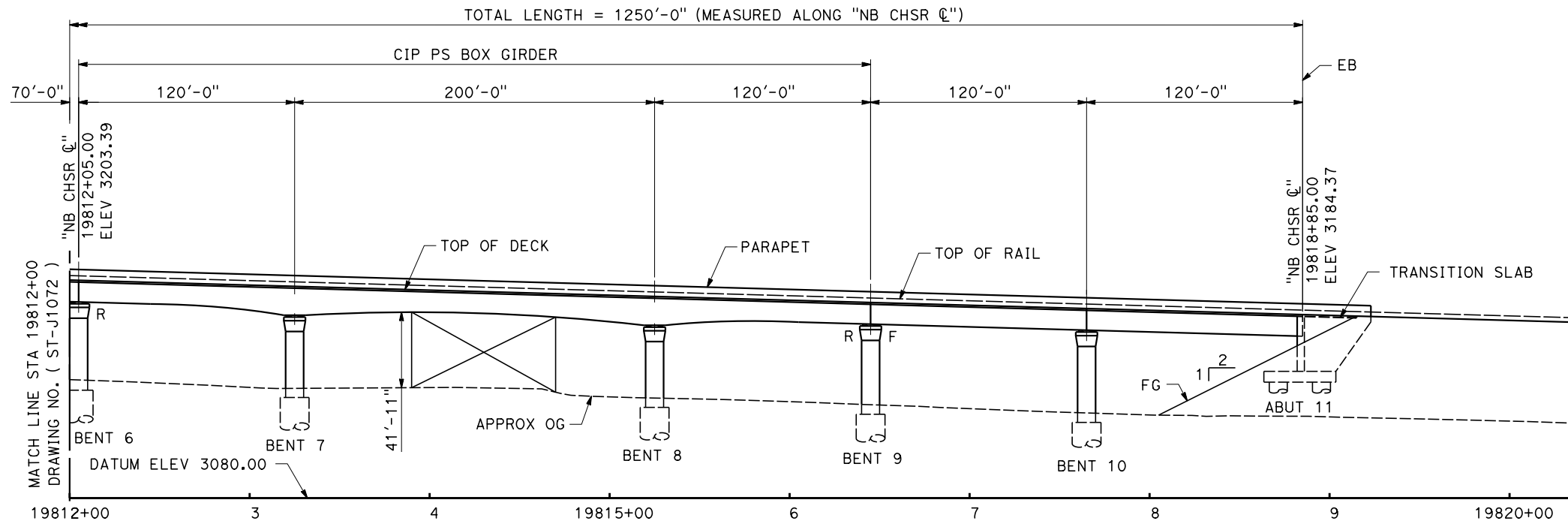
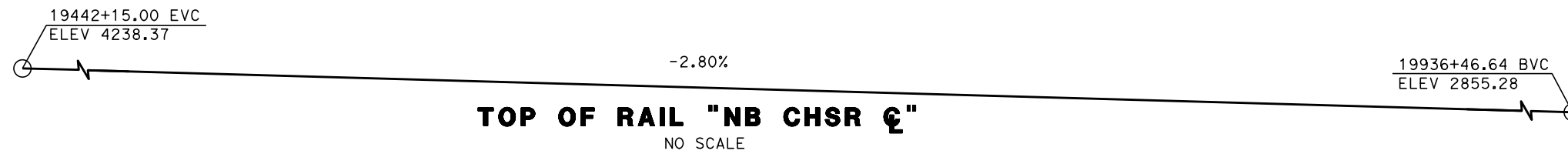
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
AQUEDUCT ROAD NORTH VIADUCT  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44

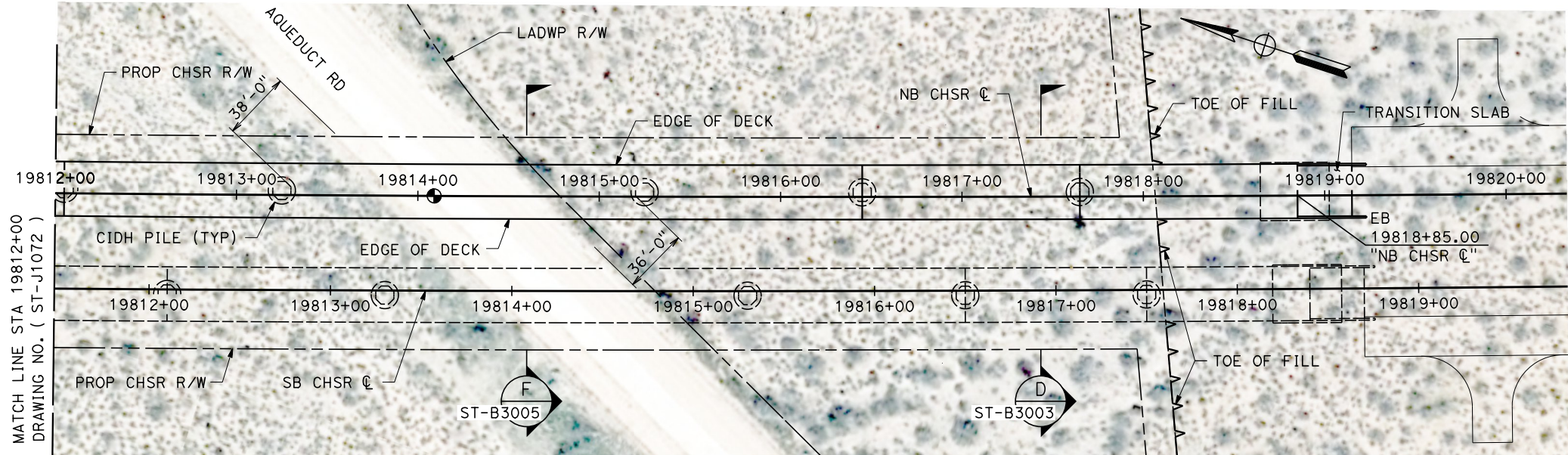
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ST-J1072

SCALE  
AS SHOWN

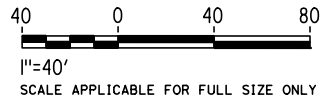
SHEET NO.  
851



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



Projects\701206.00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1073 3:06:53 PM 1/7/2021 yihong.wang@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**

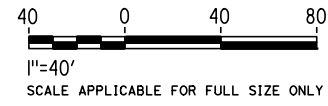
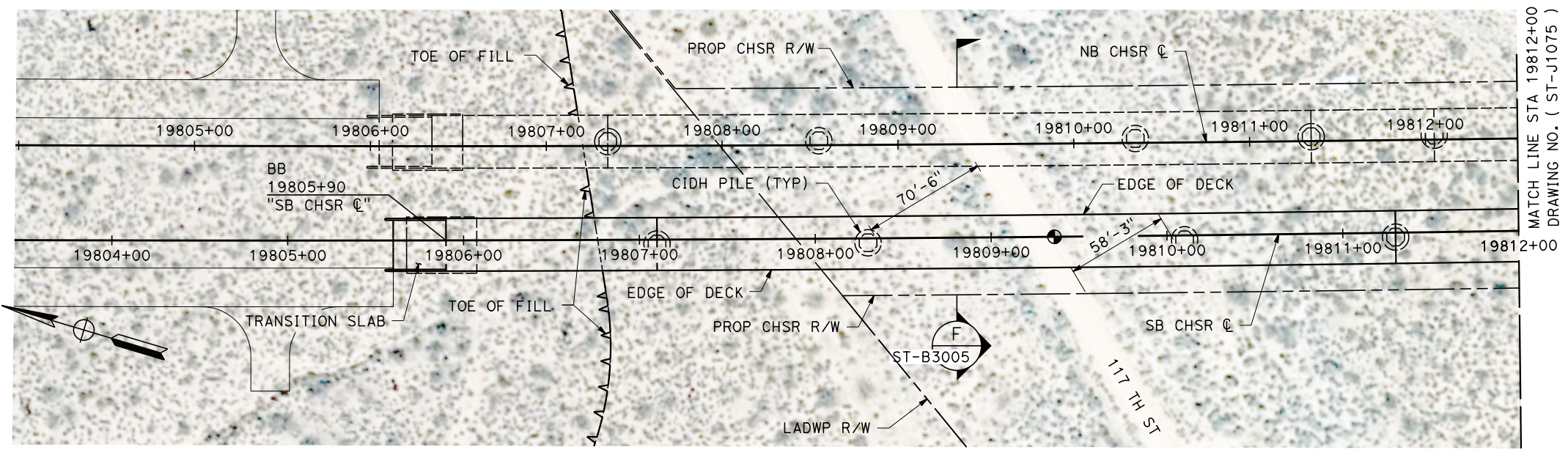
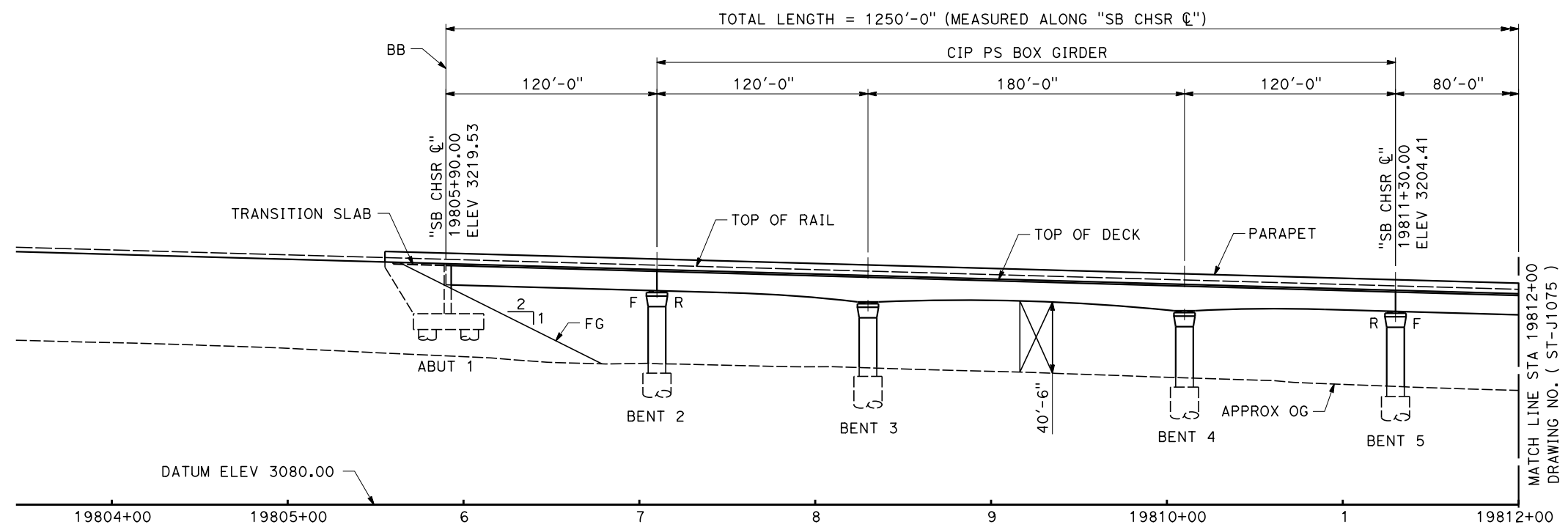
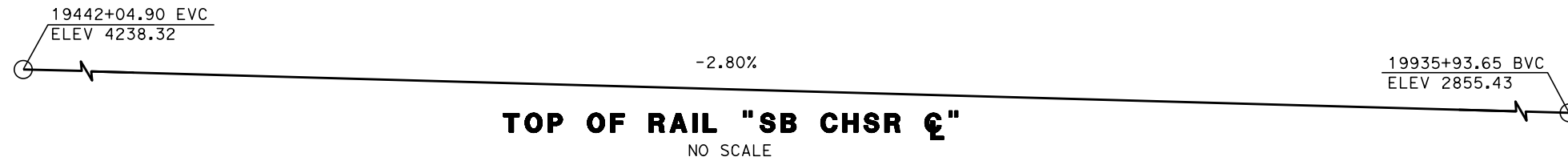
**TYLIN INTERNATIONAL**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
AQUEDUCT ROAD NORTH VIADUCT  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1073  
SCALE  
AS SHOWN  
SHEET NO.  
852

Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1074  
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1/7/2021  
y.hong.wang@tylin.com



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

**RECORD SET  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



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

ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
AQUEDUCT ROAD SOUTH VIADUCT  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1074  
SCALE  
AS SHOWN  
SHEET NO.  
853

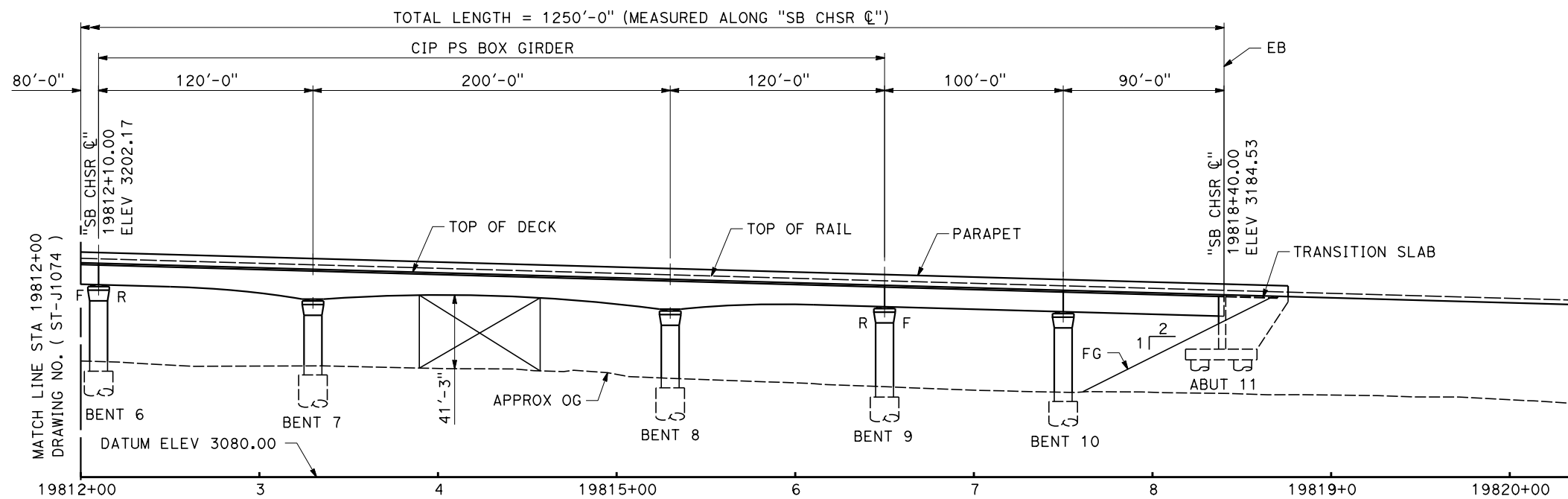
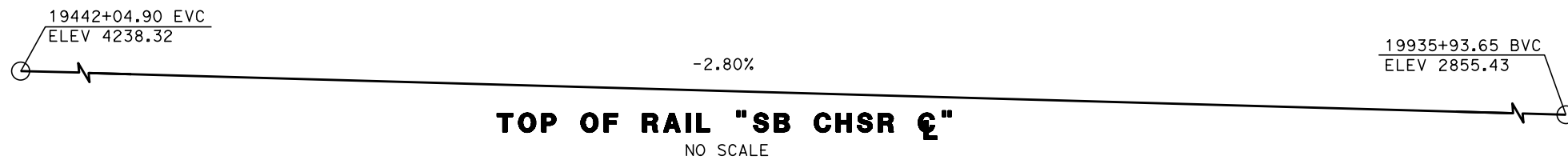


Projects\701206\_00\_CHSRBP\00\_CADD\Sheet\_Files\ST\BP-ST-J1075

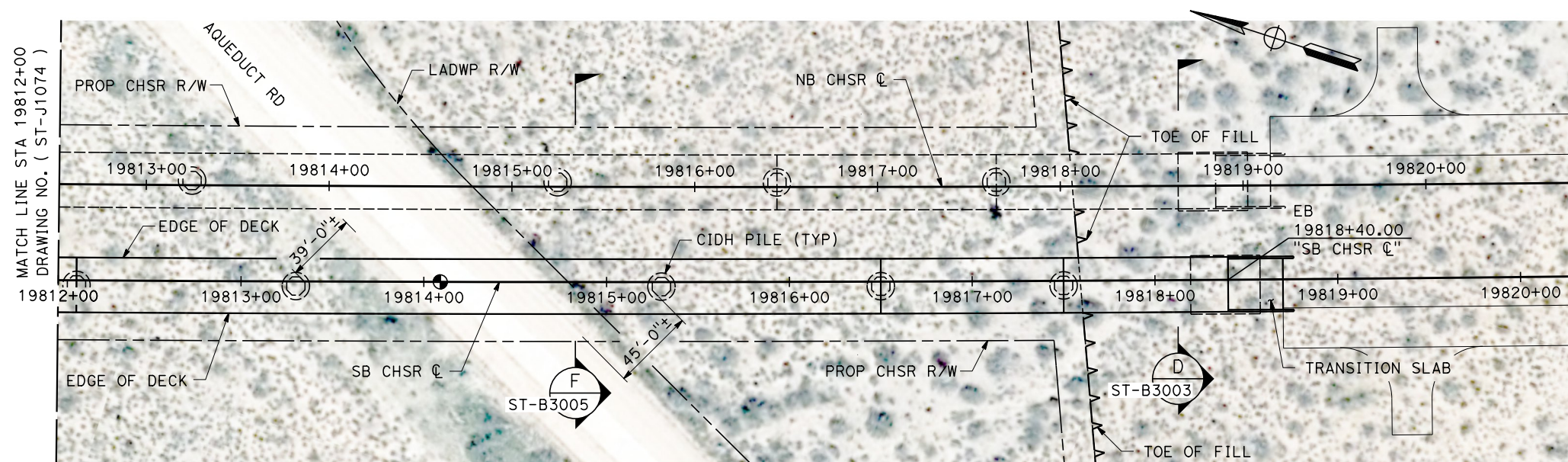
3:04:51 PM

1/7/2021

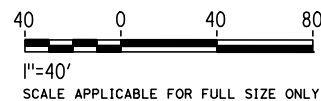
yihong.wang@tylin.com



**ELEVATION**  
SCALE 1" = 40'



**PLAN**  
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. GOLCHOBIAN**  
DRAWN BY  
**Y. WANG**  
CHECKED BY  
**R. BARTON**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/29/2021**

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

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
ALTERNATIVES 1,2,5  
TRACK STRUCTURES  
AQUEDUCT ROAD SOUTH VIADUCT  
PLAN AND ELEVATION

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
ST-J1075  
SCALE  
AS SHOWN  
SHEET NO.  
854