

CALIFORNIA HIGH-SPEED TRAIN

Bridges and Elevated Structures Plans

RECORD PEPD SUBMISSION

Bakersfield to Palmdale

Track and Roadway Structures

October 2017



INDEX OF DRAWINGS

GENERAL SHEETS

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ST-B3010	GENERAL - TRACK STRUCTURES - TYPICAL SECTION SHEET 10 OF 10

TRACK STRUCTURES

DRAWING NO.	DRAWING DESCRIPTION
ST-J1001 TO ST-J1016	ALTERNATIVES 1,3,5-TRACK STRUCTURES-VIADUCT STATION 17285+00 TO 17440+12.05-PLAN AND ELEVATION
ST-J1017	ALTERNATIVES 1,3,5 - VINELAND ROAD UNDERPASS - PLAN AND ELEVATION
ST-J1018	ALTERNATIVES 1,3,5 - EDISON ROAD UNDERPASS - PLAN AND ELEVATION
ST-J1019	ALTERNATIVES 1,3,5 - MALAGA ROAD UNDERPASS - PLAN AND ELEVATION
ST-J1020	ALTERNATIVES 1,3,5 - COMANCHE DRIVE UNDERPASS - PLAN AND ELEVATION
ST-J1021	ALTERNATIVES 1,3,5 - TEJON HIGHWAY NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1022	ALTERNATIVES 1,3,5 - TEJON HIGHWAY SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1023	ALTERNATIVES 1,3,5 - TOWERLINE ROAD UNDERPASS - PLAN AND ELEVATION
ST-J1024	ALTERNATIVES 1,3,5 - NEUMARKEL ROAD UNDERPASS - PLAN AND ELEVATION
ST-J1025 TO ST-J1026	ALTERNATIVES 1,3,5 - VIADUCT STATION 17841+15 TO 17856+15 - PLAN AND ELEVATION
ST-J1027 TO ST-J1030	ALTERNATIVES 1,2,3,5 - VIADUCT STATION 18076+21 TO 18107+11 - PLAN AND ELEVATION
ST-J1031	ALTERNATIVES 1,2,3,5 - CALIENTE BODFISH RD UNDERPASS - PLAN AND ELEVATION
ST-J1032	ALTERNATIVES 1,2,3,5 - UNDERPASS STATION 18239+45 TO 18245+25 - PLAN AND ELEVATION
ST-J1033 TO ST-J1034	ALTERNATIVES 1,2,3,5 - VIADUCT STATION 18463+56 TO 18475+16 - PLAN AND ELEVATION
ST-J1035	ALTERNATIVES 1,2,3,5 - UNDERPASS STATION 18494+23 TO 18497+43 - PLAN AND ELEVATION
ST-J1036 TO ST-J1037	ALTERNATIVES 1,2,3,5 - VIADUCT STATION 18561+10 TO 18575+70 - PLAN AND ELEVATION
ST-J1038	ALTERNATIVES 1,2,3,5 - UNDERPASS STATION 18700+32 TO 18703+52 - PLAN AND ELEVATION
ST-J1039 TO ST-J1041	ALTERNATIVES 1,2,3,5 - VIADUCT STATION 18717+05 TO 18746+75 - PLAN AND ELEVATION
ST-J1042 TO ST-J1047	ALTERNATIVES 1,2,3,5 - VIADUCT STATION 18828+25 TO 18874+85 - PLAN AND ELEVATION
ST-J1048	ALTERNATIVES 1,2,3,5 - SR 58 NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1049	ALTERNATIVES 1,2,3,5 - SR 58 SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1050 TO ST-J1050A	ALTERNATIVES 1,2,3,5 - GOODRICK DRIVE-TEHACHAPI BLVD NORTH VIADUCT - PLAN AND ELEVATION
ST-J1051 TO ST-J1051A	ALTERNATIVES 1,2,3,5 - GOODRICK DRIVE-TEHACHAPI BLVD SOUTH VIADUCT - PLAN AND ELEVATION
ST-J1052	ALTERNATIVES 1,2,3,5 - STUBER ROAD NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1053	ALTERNATIVES 1,2,3,5 - STUBER ROAD SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1054	ALTERNATIVES 1,2,3,5 - HIGHLINE ROAD NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1055	ALTERNATIVES 1,2,3,5 - HIGHLINE ROAD SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1056	ALTERNATIVES 1,2,3,5 - TEHACHAPI WILLOW SPRINGS ROAD NORTH UNDERPASS 1 - PLAN AND ELEVATION
ST-J1057	ALTERNATIVES 1,2,3,5 - TEHACHAPI WILLOW SPRINGS ROAD SOUTH UNDERPASS 1 - PLAN AND ELEVATION
ST-J1058	ALTERNATIVES 1,2,3,5 - NORTH UNDERPASS STATION 19272+35 TO 19276+75 - PLAN AND ELEVATION
ST-J1059	ALTERNATIVES 1,2,3,5 - SOUTH UNDERPASS STATION 19271+75 TO 19276+45 - PLAN AND ELEVATION
ST-J1060 TO ST-J1061	ALTERNATIVES 1,2,5 - NORTH VIADUCT STATION 19458+20 TO 19473+80 - PLAN AND ELEVATION
ST-J1062 TO ST-J1063	ALTERNATIVES 1,2,5 - SOUTH VIADUCT STATION 19458+00 TO 19473+50 - PLAN AND ELEVATION
ST-J1064	ALTERNATIVES 1,2,5 - TEHACHAPI WILLOW SPRINGS ROAD NORTH UNDERPASS 2 - PLAN AND ELEVATION

TRACK STRUCTURES (CONTINUED)

DRAWING NO.	DRAWING DESCRIPTION
ST-J1065	ALTERNATIVES 1,2,5 - TEHACHAPI WILLOW SPRINGS ROAD SOUTH UNDERPASS 2 - PLAN AND ELEVATION
ST-J1066	ALTERNATIVES 1,2,5 - ROBERT RANCH ROAD NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1067	ALTERNATIVES 1,2,5 - ROBERT RANCH ROAD SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1068	ALTERNATIVES 1,2,5 - 110TH STREET NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1069	ALTERNATIVES 1,2,5 - 110TH STREET SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1070	ALTERNATIVES 1,2,5 - TROTTER AVENUE NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1071	ALTERNATIVES 1,2,5 - TROTTER AVENUE SOUTH UNDERPASS - PLAN AND ELEVATION
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ST-J1074 TO ST-J1075	ALTERNATIVES 1,2,5 - AQUEDUCT ROAD SOUTH VIADUCT - PLAN AND ELEVATION
ST-J1076	ALTERNATIVES 1,2,5 - BACKUS ROAD NORTH UNDERPASS - PLAN AND ELEVATION
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ST-J1083	ALTERNATIVES 1,2,5 - MONTIVERDE ROAD SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1084	ALTERNATIVES 1,2,5 - HIGHGATE ROAD NORTH UNDERPASS - PLAN AND ELEVATION
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ST-J1086	ALTERNATIVES 1,2,5 - CHAMPANGNE AVENUE UNDERPASS - PLAN AND ELEVATION
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ST-J1089	ALTERNATIVES 1,2,3,5 - FAVORITO AVENUE - 80TH STREE UNDERPASS - PLAN AND ELEVATION
ST-J1090 TO ST-J1090A	ALTERNATIVES 1,2,3,5 - SWEETSER ROAD VIADUCT - PLAN AND ELEVATION
ST-J1091	ALTERNATIVES 1,2,3,5 - ROSAMOND BLVD UNDERPASS - PLAN AND ELEVATION
ST-J1092	ALTERNATIVES 1,2,3,5 - 60TH STREET UNDERPASS - PLAN AND ELEVATION
ST-J1093	ALTERNATIVES 1,2,3,5 - ASTORIA AVENUE UNDERPASS - PLAN AND ELEVATION
ST-J1094	ALTERNATIVES 1,2,3,5 - HOLIDAY AVENUE UNDERPASS - PLAN AND ELEVATION
ST-J1095	ALTERNATIVES 1,2,3,5 - 50TH STREET UNDERPASS - PLAN AND ELEVATION
ST-J1096	ALTERNATIVES 1,2,3,5 - AVENUE A UNDERPASS - PLAN AND ELEVATION
ST-J1096A	ALTERNATIVES 1,2,3,5 - 40TH STREET - AVENUE A8 VIADUCT - PLAN AND ELEVATION
ST-J1097	ALTERNATIVES 1,2,3,5 - AVENUE B EAST UNDERPASS - PLAN AND ELEVATION
ST-J1098	ALTERNATIVES 1,2,3,5 - AVENUE B WEST UNDERPASS - PLAN AND ELEVATION
ST-J1099	ALTERNATIVES 1,2,3,5 - 30TH STREET - AVENUE C UNDERPASS - PLAN AND ELEVATION
ST-J1100	ALTERNATIVES 1,2,3,5 - SR 138 UNDERPASS - PLAN AND ELEVATION
ST-J1101	ALTERNATIVES 1,2,3,5 - SR 14 UNDERPASS - PLAN AND ELEVATION
ST-J1102	ALTERNATIVES 1,2,3,5 - AVENUE E UNDERPASS - PLAN AND ELEVATION
ST-J1103 TO ST-J1103B	ALTERNATIVES 1,2,3 - AVENUE F UNDERPASS - PLAN AND ELEVATION
ST-J1104 TO ST-J1119	ALTERNATIVE 2 - VIADUCT STATION 17285+00 TO 17440+82.05 - PLAN AND ELEVATION
ST-J1120	ALTERNATIVE 2 - VINELAND ROAD UNDERPASS - PLAN AND ELEVATION
ST-J1121 TO ST-J1124	ALTERNATIVE 2 - VIADUCT STATION 17497+70 TO 17530+80 - PLAN AND ELEVATION
ST-J1125	ALTERNATIVE 2 - MALAGA ROAD UNDERPASS - PLAN AND ELEVATION
ST-J1126	ALTERNATIVE 2 - COMANCHE DRIVE UNDERPASS - PLAN AND ELEVATION
ST-J1127	ALTERNATIVE 2 - TEJON HIGHWAY UNDERPASS - PLAN AND ELEVATION
ST-J1128	ALTERNATIVE 2 - TOWERLINE ROAD UNDERPASS - PLAN AND ELEVATION
ST-J1129 TO ST-J1130	ALTERNATIVE 2 - SR 58 VIADUCT - PLAN AND ELEVATION
ST-J1131	ALTERNATIVE 2 - NEUMARKEL ROAD UNDERPASS - PLAN AND ELEVATION
ST-J1132 TO ST-J1133	ALTERNATIVE 2 - VIADUCT STATION 17842+85 TO 17855+65 - PLAN AND ELEVATION
ST-J1134	ALTERNATIVE 3 - TEHACHAPI WILLOW SPRINGS ROAD NORTH UNDERPASS 4 - PLAN AND ELEVATION
ST-J1135	ALTERNATIVE 3 - TEHACHAPI WILLOW SPRINGS ROAD SOUTH UNDERPASS 4 - PLAN AND ELEVATION
ST-J1136	ALTERNATIVE 3 - PACIFIC CREST TRAIL NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1137	ALTERNATIVE 3 - PACIFIC CREST TRAIL SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1138	ALTERNATIVE 3 - TROTTER AVENUE NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1139	ALTERNATIVE 3 - TROTTER AVENUE SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1140	ALTERNATIVE 3 - 110TH STREET NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1141	ALTERNATIVE 3 - 110TH STREET SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1142 TO ST-J1143	ALTERNATIVE 3 - AQUEDUCT ROAD NORTH VIADUCT - PLAN AND ELEVATION
ST-J1144 TO ST-J1145	ALTERNATIVE 3 - AQUEDUCT ROAD SOUTH VIADUCT - PLAN AND ELEVATION
ST-J1146	ALTERNATIVE 3 - BACKUS ROAD NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1147	ALTERNATIVE 3 - BACKUS ROAD SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1148	ALTERNATIVE 3 - 105TH STREET NORTH UNDERPASS - PLAN AND ELEVATION

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DATE
10/31/2017

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
TRACK AND ROADWAY STRUCTURES
INDEX OF DRAWINGS
SHEET 1 OF 2

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-B0001
SCALE
AS SHOWN
SHEET NO.

TRACK STRUCTURES (CONTINUED)

DRAWING NO.	DRAWING DESCRIPTION
ST-J1149	ALTERNATIVE 3 - 105TH STREET SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1150	ALTERNATIVE 3 - CHAMPAGNE ROAD NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1151	ALTERNATIVE 3 - CHAMPAGNE ROAD SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1152	ALTERNATIVE 3 - MONTIVERDE ROAD NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1153	ALTERNATIVE 3 - MONTIVERDE ROAD SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1154	ALTERNATIVE 3 - HIGHGATE ROAD NORTH UNDERPASS - PLAN AND ELEVATION
ST-J1155	ALTERNATIVE 3 - HIGHGATE ROAD SOUTH UNDERPASS - PLAN AND ELEVATION
ST-J1156	ALTERNATIVE 3 - CHAMPAGNE AVENUE UNDERPASS - PLAN AND ELEVATION
ST-J1157	ALTERNATIVE 3 - TEHACHAPI WILLOW SPRINGS ROAD UNDERPASS 5 - PLAN AND ELEVATION
ST-J1158 TO ST-J1160	ALTERNATIVE 5 - AVENUE F UNDERPASS - PLAN AND ELEVATION
ST-J1161 TO ST-J1169	ALTERNATIVE B-3-ALT 1,3,5 TIE IN - VIADUCT STATION 17285+00 TO 17370+41.55 - PLAN AND ELEVATION
ST-J1170 TO ST-J1178	ALTERNATIVE B-3-ALT 2 TIE IN - VIADUCT STATION 17285+00 TO 17370+41.55- PLAN AND ELEVATION

ROADWAY STRUCTURES

DRAWING NO.	DRAWING DESCRIPTION
ST-K1001	ALTERNATIVES 1,2,3,5 - MORNING DRIVE UNDERCROSSING - PLAN AND ELEVATION
ST-K1002	ALTERNATIVES 1,2,3,5 - MORNING DRIVE UNDERPASS - PLAN AND ELEVATION
ST-K1003	ALTERNATIVES 1,3,5 - EDISON ROAD EB UNDERCROSSING - PLAN AND ELEVATION
ST-K1004	ALTERNATIVES 1,3,5 - EDISON ROAD WB UNDERCROSSING - PLAN AND ELEVATION
ST-K1005	ALTERNATIVES 1,3,5 - MAGALA ROAD EB UNDERCROSSING - PLAN AND ELEVATION
ST-K1006	ALTERNATIVES 1,3,5 - MAGALA ROAD WB UNDERCROSSING - PLAN AND ELEVATION
ST-K1007	ALTERNATIVES 1,3,5 - COMANCHE DRIVE EB UNDERCROSSING - PLAN AND ELEVATION
ST-K1008	ALTERNATIVES 1,3,5 - COMANCHE DRIVE WB UNDERCROSSING - PLAN AND ELEVATION
ST-K1009	ALTERNATIVES 1,3,5 - TEJON HIGHWAY EB UNDERCROSSING - PLAN AND ELEVATION
ST-K1010	ALTERNATIVES 1,3,5 - TEJON HIGHWAY WB UNDERCROSSING - PLAN AND ELEVATION
ST-K1011	ALTERNATIVES 1,3,5 - TOWERLINE ROAD EB UNDERCROSSING - PLAN AND ELEVATION
ST-K1012	ALTERNATIVES 1,3,5 - TOWERLINE ROAD WB UNDERCROSSING - PLAN AND ELEVATION
ST-K1013	ALTERNATIVES 1,2,3,5 - GENERAL BEALE ROAD OVERHEAD - PLAN AND ELEVATION
ST-K1014	ALTERNATIVES 1,2,3,5 - BEALVILLE ROAD OVERHEAD - PLAN AND ELEVATION
ST-K1015 TO ST-K1016	ALTERNATIVES 1,2,3,5 - SR 58 EB OVERHEAD - PLAN AND ELEVATION
ST-K1017 TO ST-K1018	ALTERNATIVES 1,2,3,5 - SR 58 WB OVERHEAD - PLAN AND ELEVATION
ST-K1019 TO ST-K1020	ALTERNATIVES 1,2,5 - TEHACHAPI WILLOW SPRINGS ROAD OVERHEAD - PLAN AND ELEVATION
ST-K1021	ALTERNATIVES 1,2,3 - AVENUE G OVERHEAD 1 - PLAN AND ELEVATION
ST-K1022	ALTERNATIVES 1,2,3 - AVENUE G OVERHEAD 2 - PLAN AND ELEVATION
ST-K1023	ALTERNATIVES 1,2,3 - SIERRA HIGHWAY OVERHEAD - PLAN AND ELEVATION
ST-K1024	ALTERNATIVES 1,2,3 - AVENUE H OVERHEAD - PLAN AND ELEVATION
ST-K1025	ALTERNATIVES 1,2,3 - AVENUE I OVERHEAD - PLAN AND ELEVATION
ST-K1026 TO ST-K1027	ALTERNATIVES 1,2,3 - MILLING STREET OVERHEAD - PLAN AND ELEVATION
ST-K1028	ALTERNATIVES 1,2,3 - AVENUE J OVERHEAD - PLAN AND ELEVATION
ST-K1029	ALTERNATIVES 1,2,3 - AVENUE K OVERHEAD - PLAN AND ELEVATION
ST-K1030	ALTERNATIVES 1,2,3 - AVENUE L OVERHEAD - PLAN AND ELEVATION
ST-K1031 TO ST-K1032	ALTERNATIVES 1,2,3 - AVENUE M OVERHEAD - PLAN AND ELEVATION
ST-K1033	ALTERNATIVES 1,2,3 - DRAINAGE AND WILDLIFE CROSSING OVERHEAD - PLAN AND ELEVATION
ST-K1034	ALTERNATIVES 1,2,3 - AVENUE N OVERHEAD - PLAN AND ELEVATION
ST-K1036	ALTERNATIVE 5 - AVENUE G OVERHEAD 1 - PLAN AND ELEVATION
ST-K1037	ALTERNATIVE 5 - AVENUE G OVERHEAD 2 - PLAN AND ELEVATION
ST-K1038	ALTERNATIVE 5 - SIERRA HIGHWAY OVERHEAD - PLAN AND ELEVATION
ST-K1039	ALTERNATIVE 5 - AVENUE H OVERHEAD - PLAN AND ELEVATION
ST-K1040	ALTERNATIVE 5 - AVENUE I OVERHEAD - PLAN AND ELEVATION
ST-K1041 TO ST-K1042	ALTERNATIVE 5 - MILLING STREET OVERHEAD - PLAN AND ELEVATION
ST-K1043	ALTERNATIVE 5 - AVENUE J OVERHEAD - PLAN AND ELEVATION
ST-K1044	ALTERNATIVE 5 - AVENUE K OVERHEAD - PLAN AND ELEVATION
ST-K1045	ALTERNATIVE 5 - AVENUE L OVERHEAD - PLAN AND ELEVATION
ST-K1046 TO ST-K1047	ALTERNATIVE 5 - AVENUE M OVERHEAD - PLAN AND ELEVATION
ST-K1048	ALTERNATIVE 5 - DRAINAGE AND WILDLIFE CROSSING OVERHEAD - PLAN AND ELEVATION
ST-K1049	ALTERNATIVE 5 - AVENUE N OVERHEAD - PLAN AND ELEVATION

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DESIGNED BY ROBERT BARTON
DRAWN BY IVAN MARTIN
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DATE 10/31/2017

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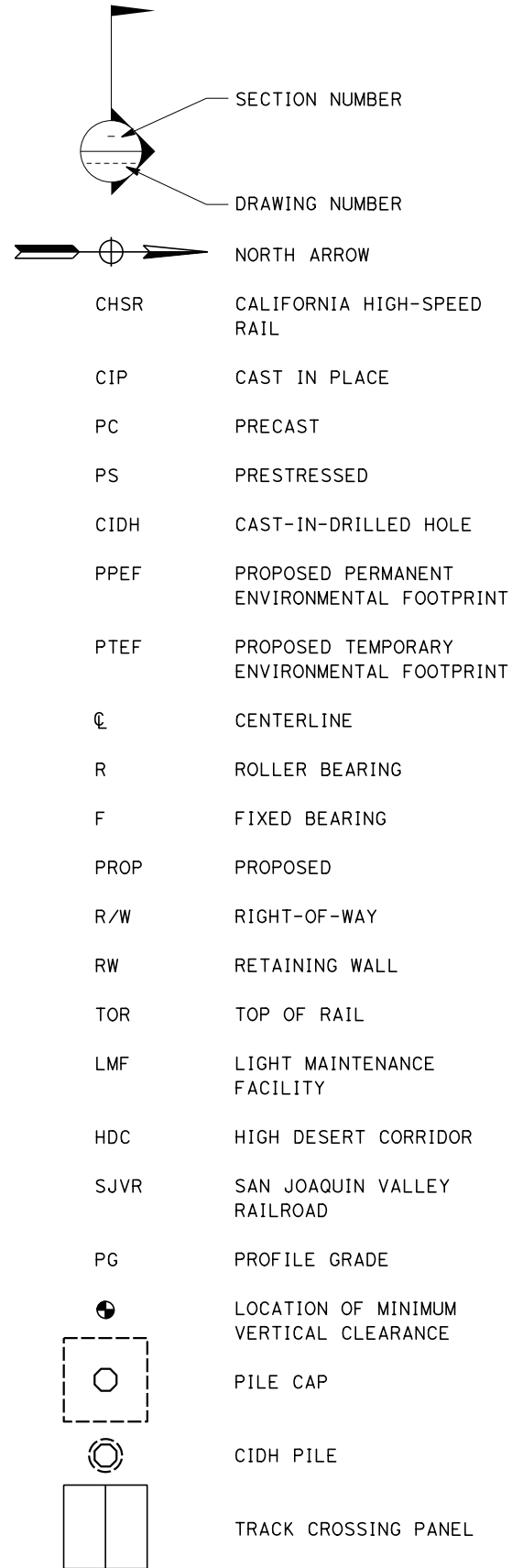
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 TRACK AND ROADWAY STRUCTURES
 INDEX OF DRAWINGS
 SHEET 2 OF 2

CONTRACT NO. HSR13-44
DRAWING NO. ST-B0002
SCALE AS SHOWN
SHEET NO.

LEGEND



1. CONCRETE BARRIER INTRUSION PROTECTION
2. CONCRETE BARRIER TYPE 742
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.

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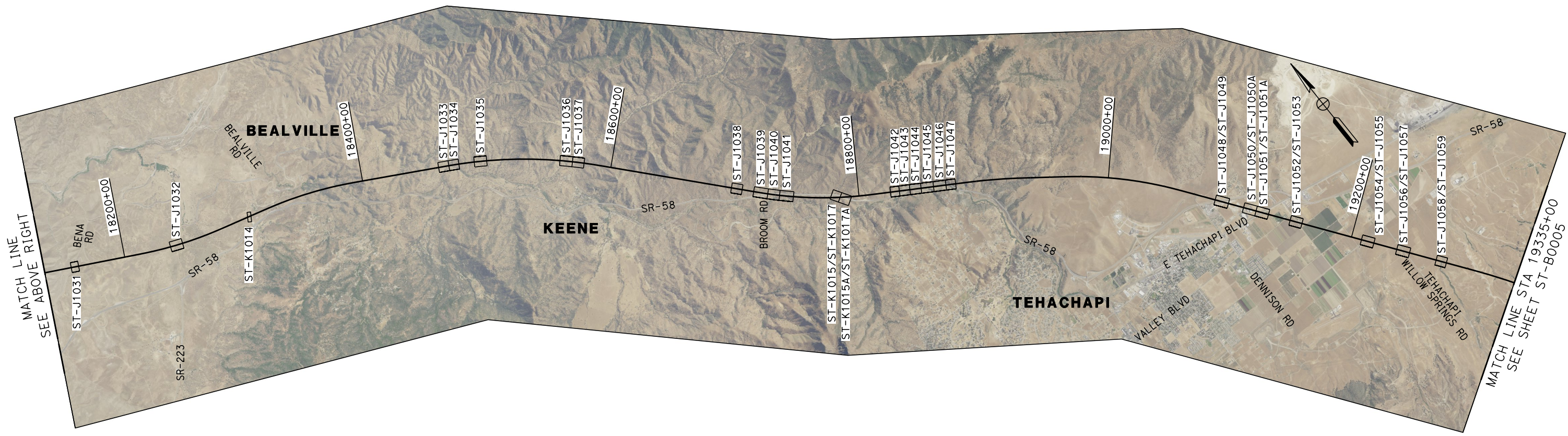
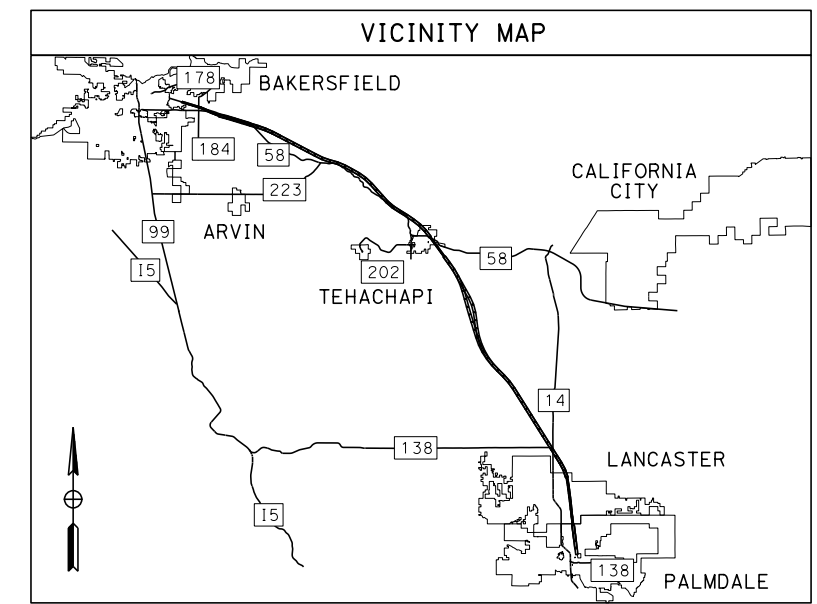
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
TRACK AND ROADWAY STRUCTURES
GENERAL NOTES AND LEGEND

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

ALTERNATIVE 1



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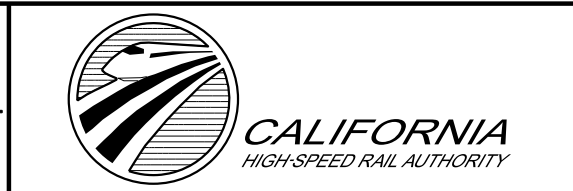
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 ALTERNATIVE 1
 TRACK AND ROADWAY STRUCTURES
 KEY MAP
 SHEET 1 OF 2

CONTRACT NO.
HSR13-44

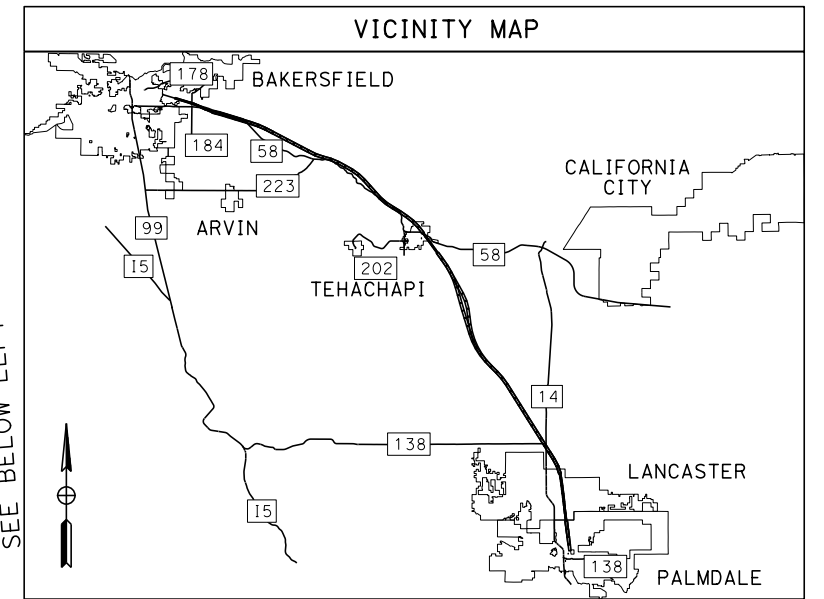
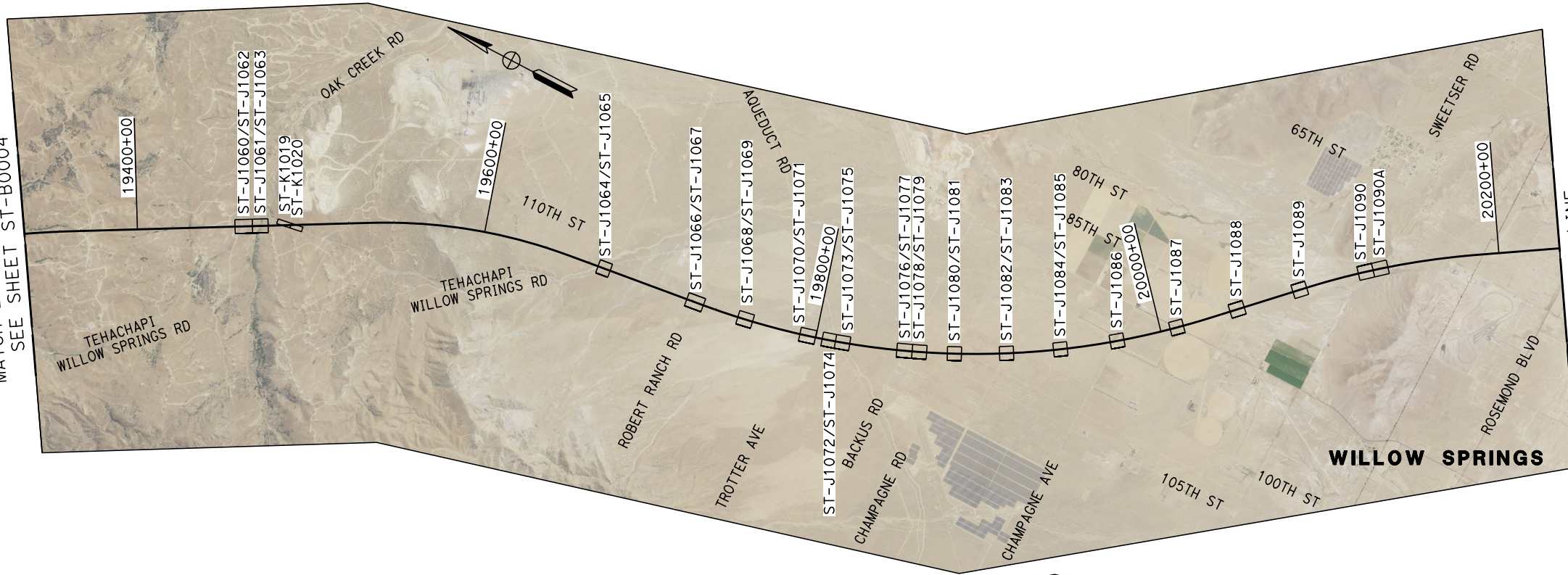
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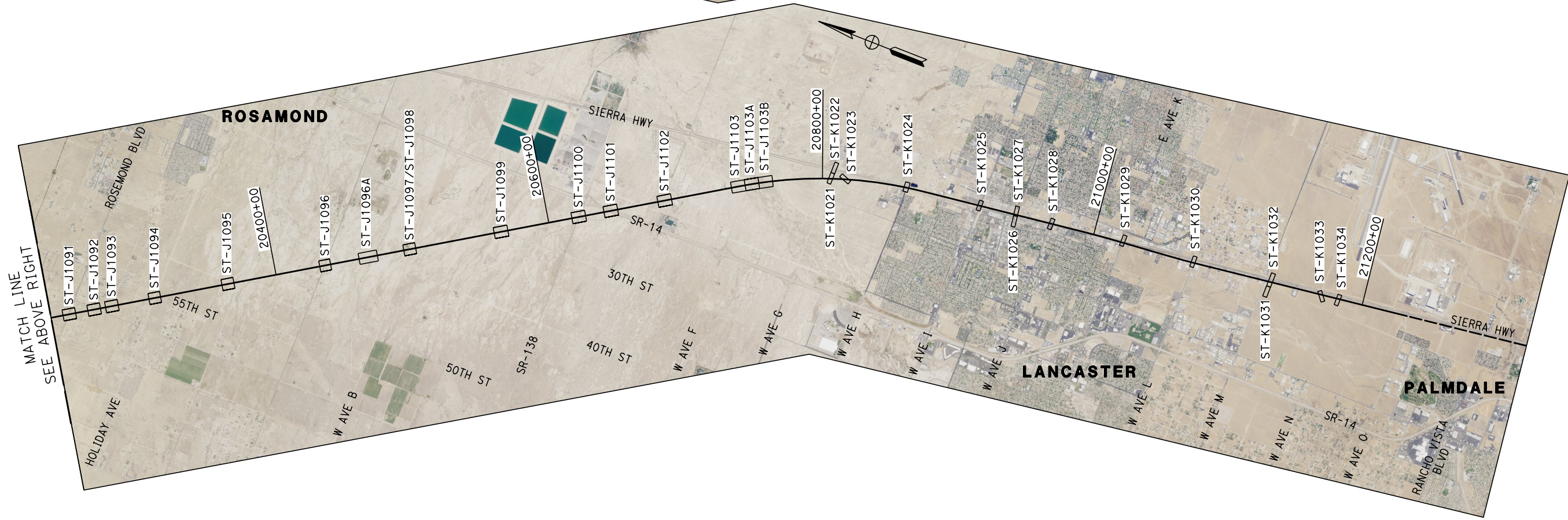
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SEE SHEET ST-B0004



MATCH LINE
SEE BELOW LEFT



MATCH LINE
SEE ABOVE RIGHT

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11:18:19 AM

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TYLWang

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DESIGNED BY
ROBERT BARTON
DRAWN BY
DYLAN WILEY
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

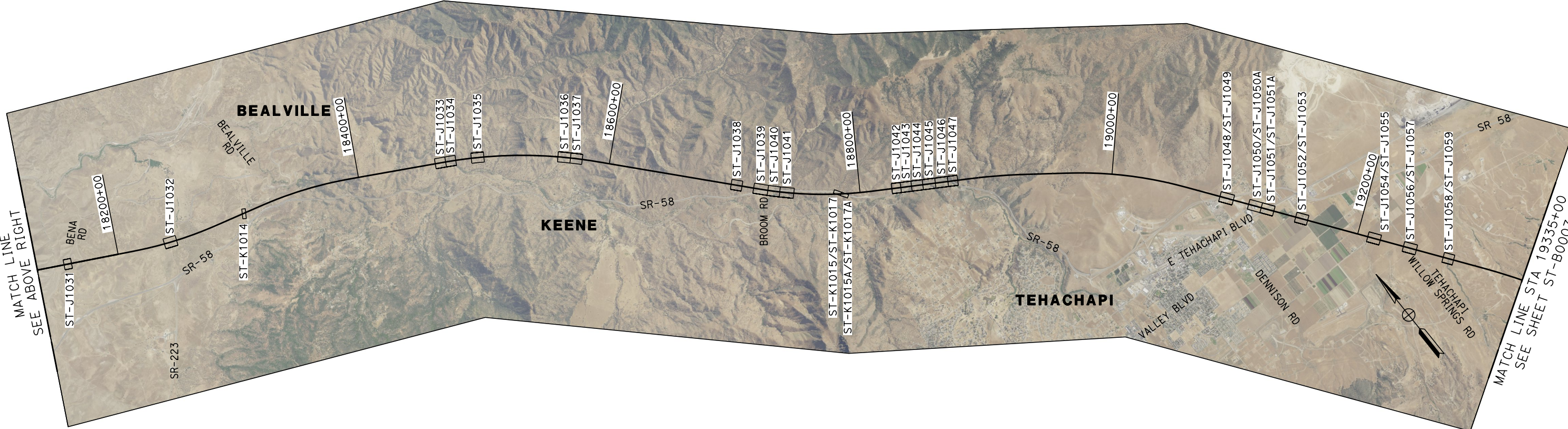
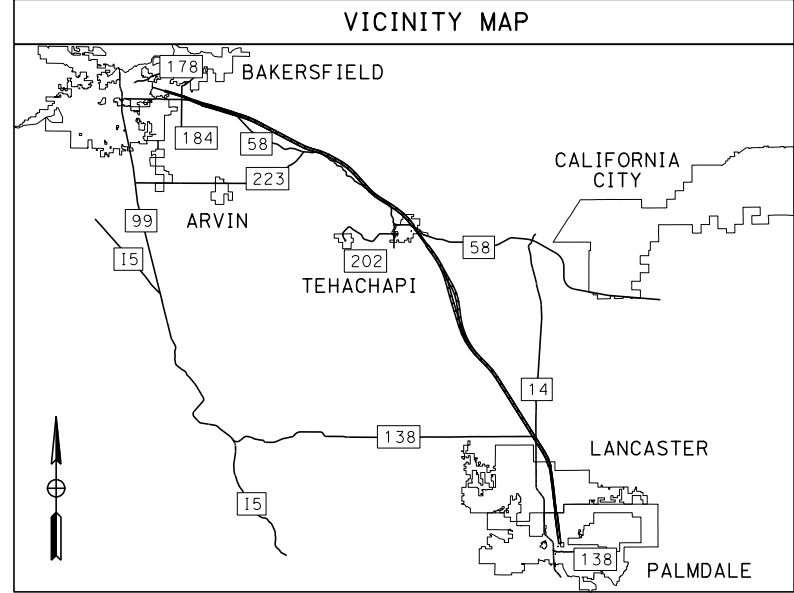
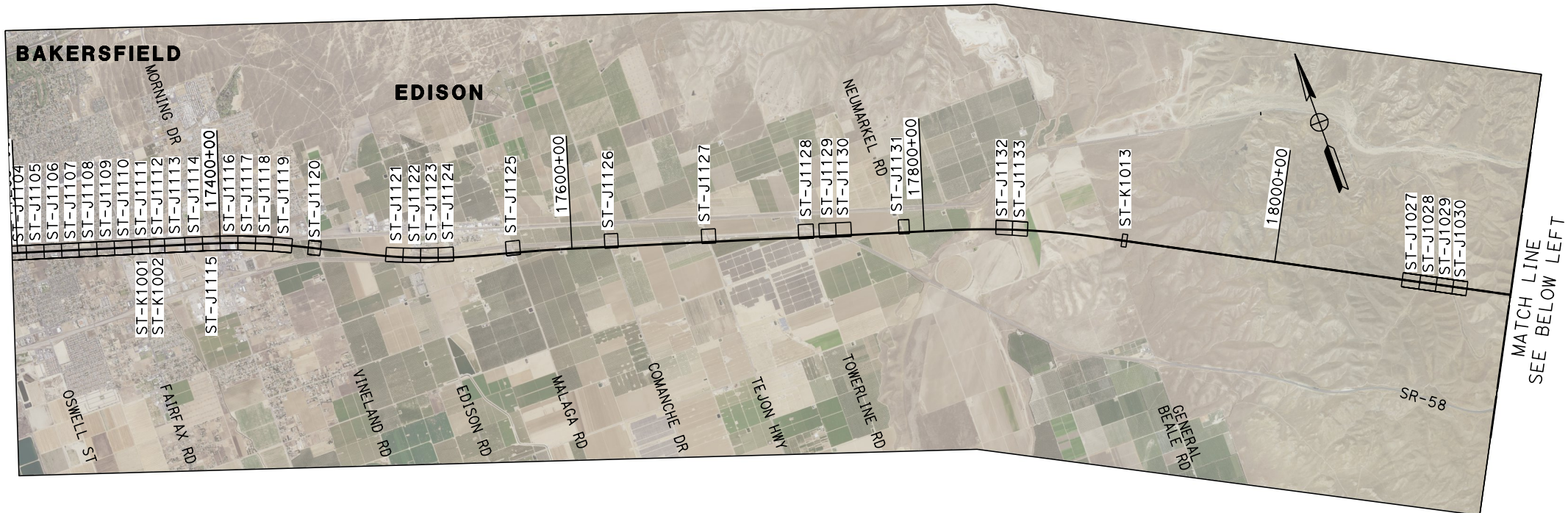


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

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.

ALTERNATIVE 2



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-B0006.dgn

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TYLIN\Wang

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ROBERT BARTON

DRAWN BY
DYLAN WILEY

CHECKED BY
R. GOLCHOBIAN

IN CHARGE
STEVE SMITH

DATE
10/31/2017

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

CONTRACT NO.
HSR13-44

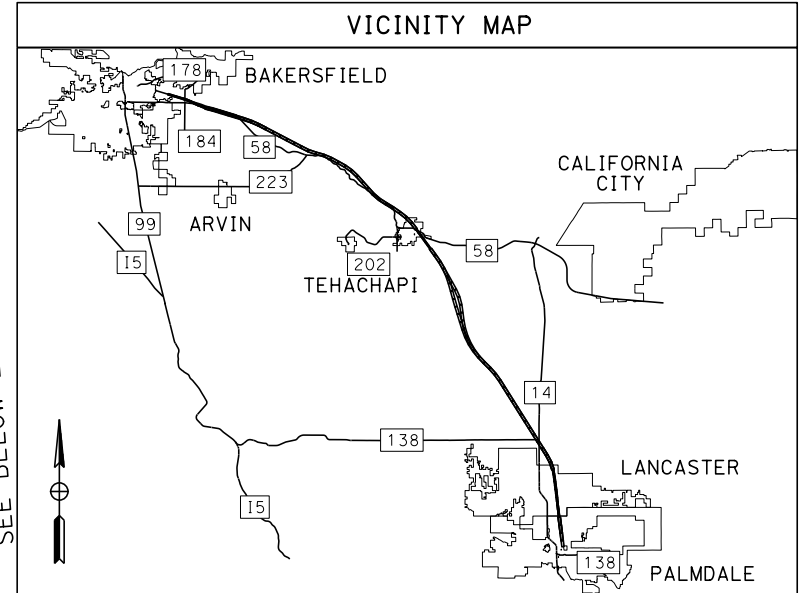
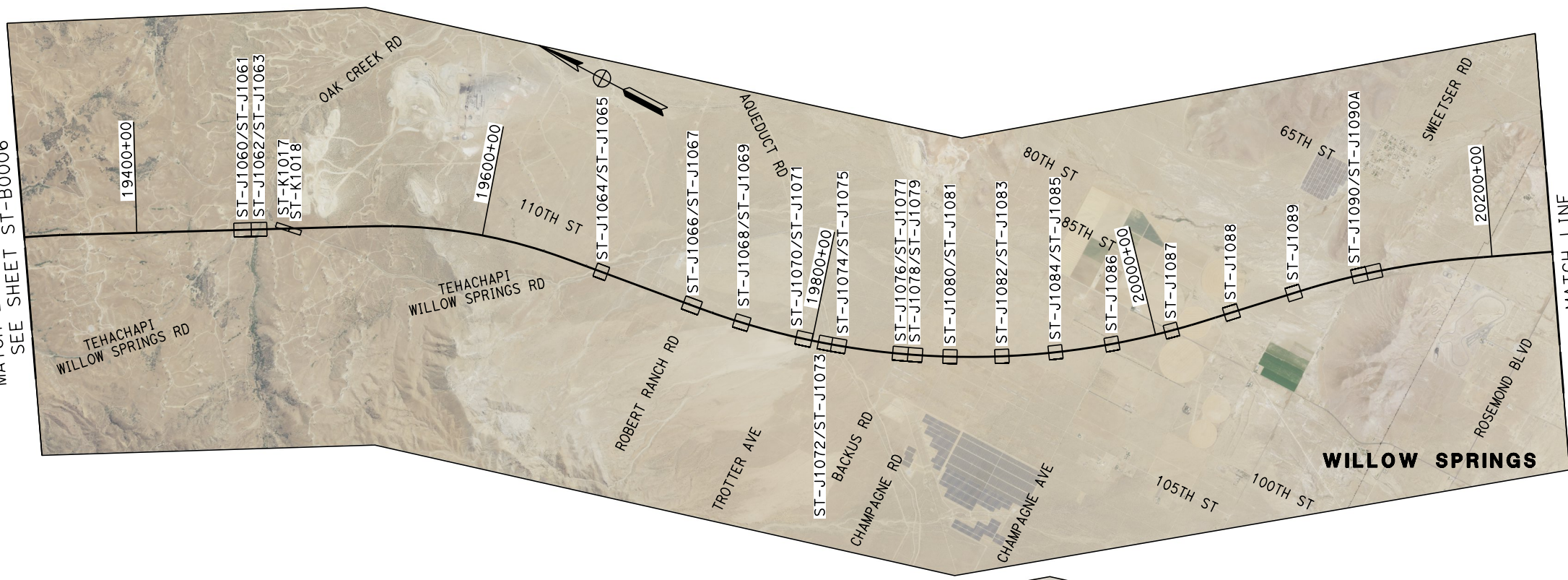
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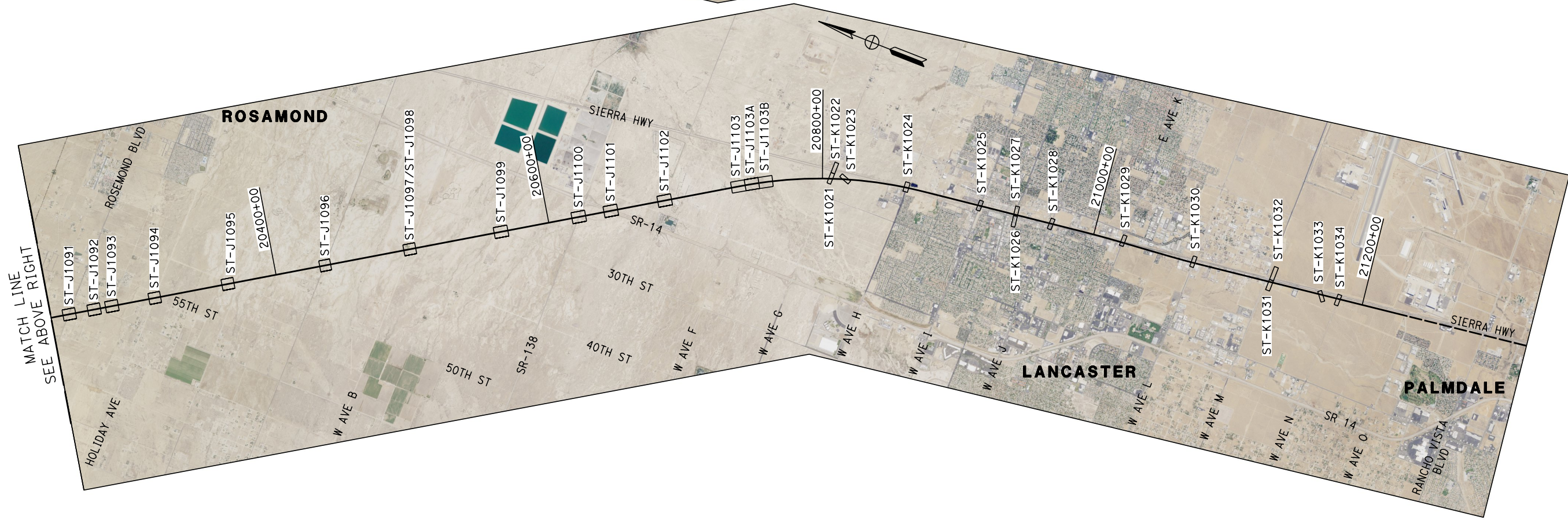
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MATCH LINE
SEE ABOVE RIGHT

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TYL\YWang

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ROBERT BARTON

DRAWN BY
DYLAN WILEY

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R. GOLCHOBIAN

IN CHARGE
STEVE SMITH

DATE
10/31/2017

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

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

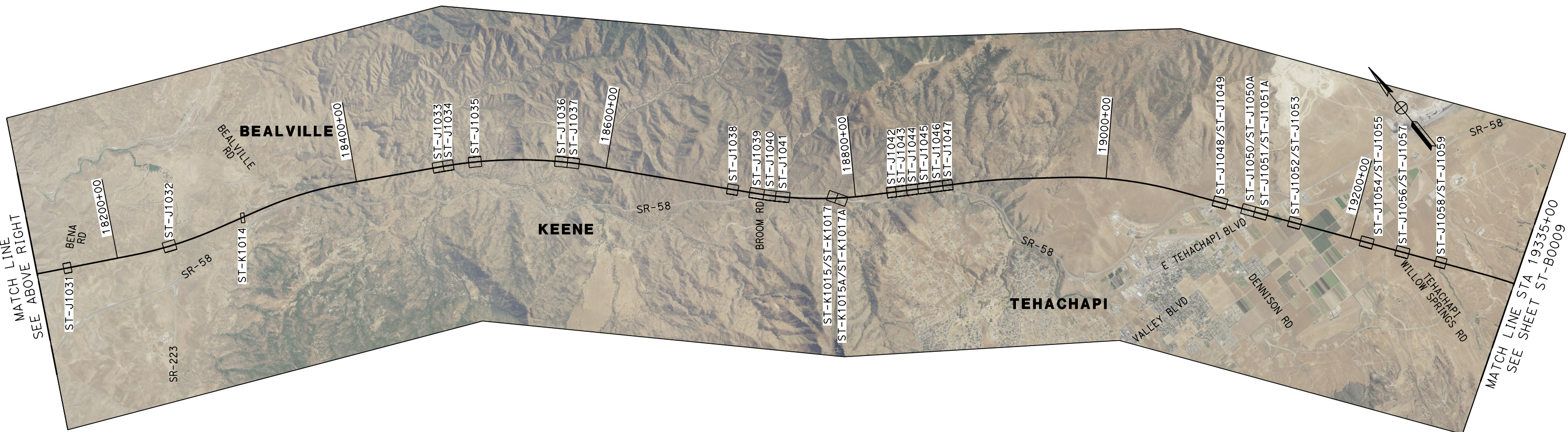
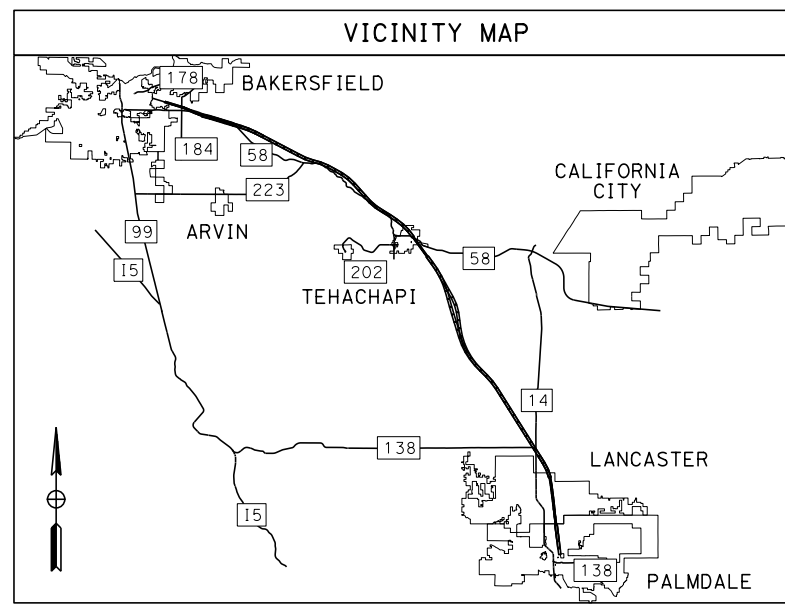
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SCALE
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SHEET NO.

ALTERNATIVE 3



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DESIGNED BY
ROBERT BARTON

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DYLAN WILEY

CHECKED BY
R. GOLCHOBIAN

IN CHARGE
STEVE SMITH

DATE
10/31/2017

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 ALTERNATIVE 3
 TRACK AND ROADWAY STRUCTURES
 KEY MAP
 SHEET 1 OF 2

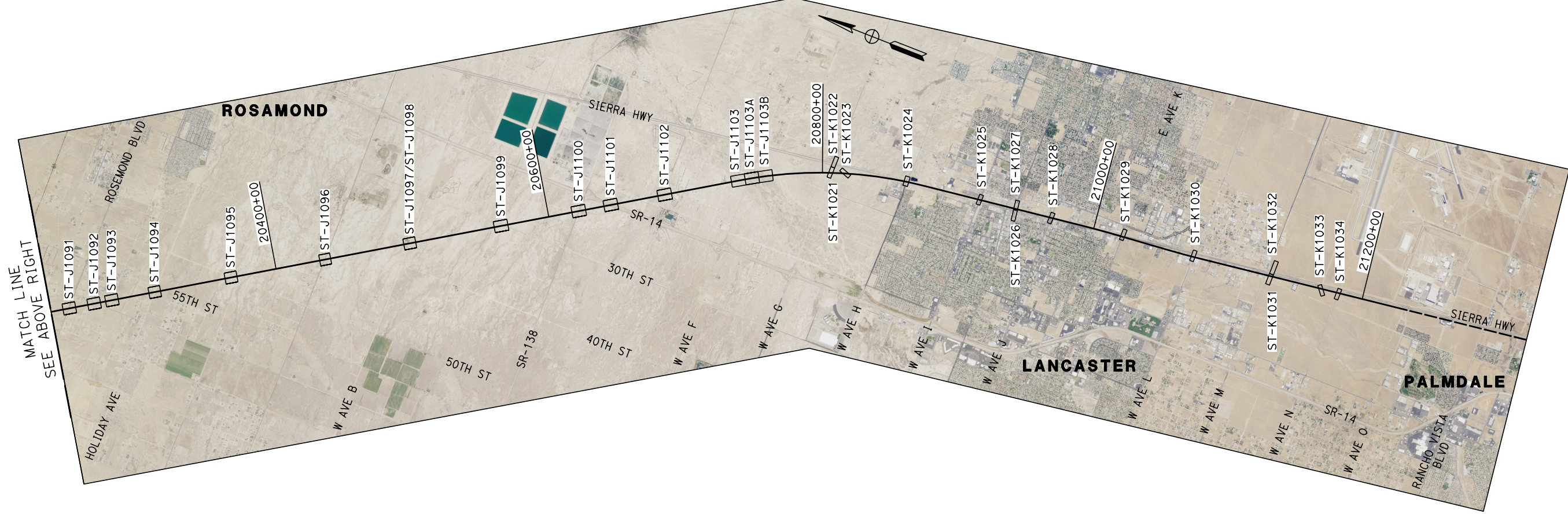
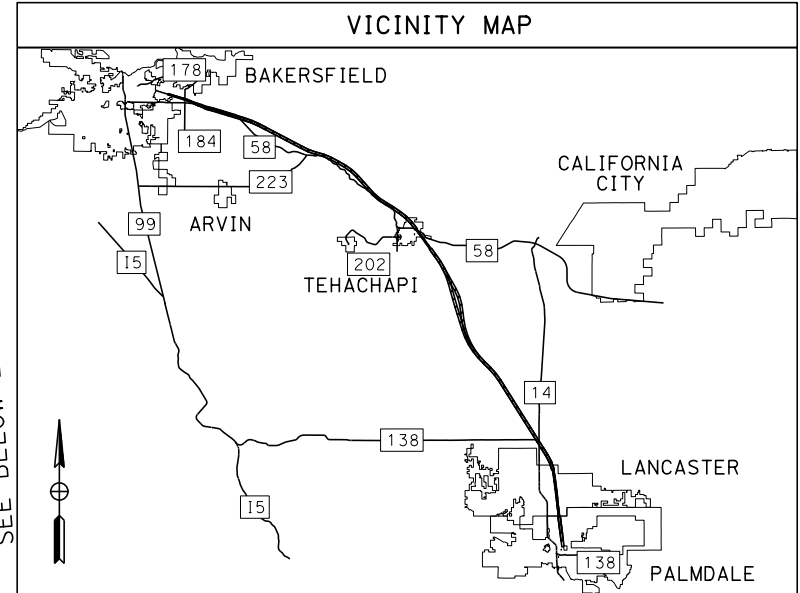
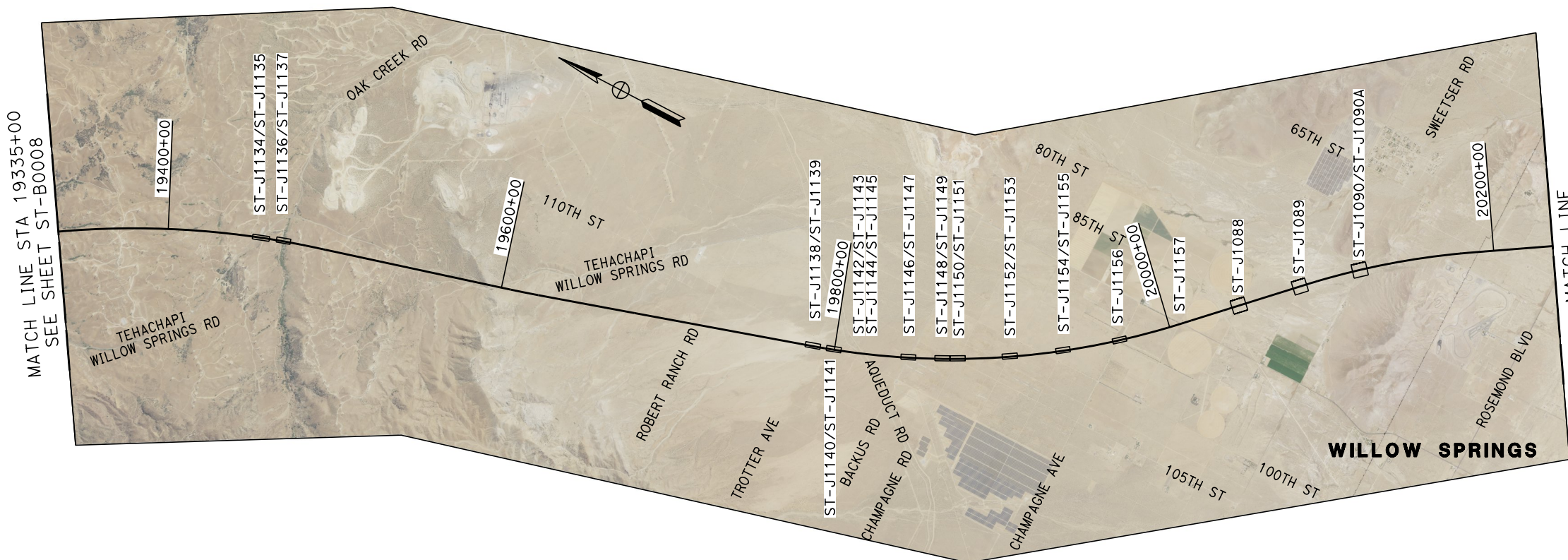
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SCALE
AS SHOWN

SHEET NO.

ALTERNATIVE 3



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11:24:12 AM

10/30/2017

TYLIN\Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
DYLAN WILEY
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

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CONSTRUCTION**

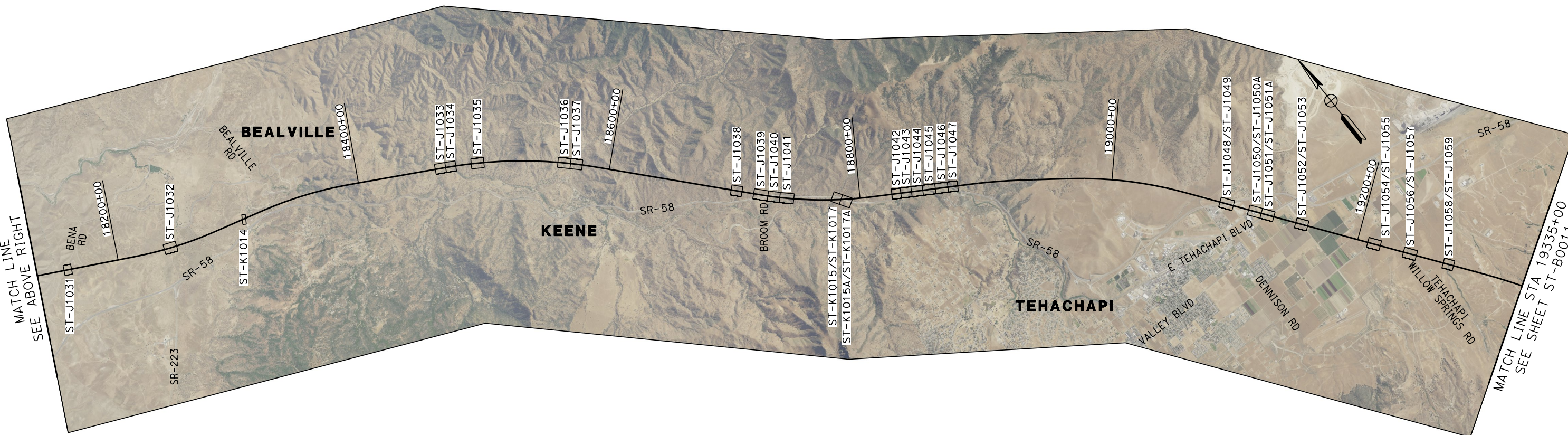
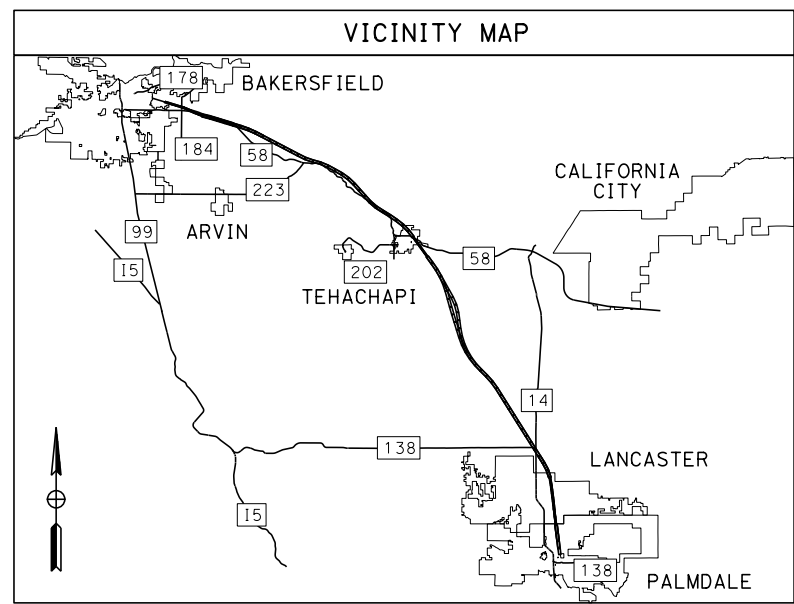


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVE 3
TRACK AND ROADWAY STRUCTURES
KEY MAP
SHEET 2 OF 2

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-B0009
SCALE
AS SHOWN
SHEET NO.

ALTERNATIVE 5



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST_VBP-ST-B0010.dgn

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TYLIN\Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON

DRAWN BY
DYLAN WILEY

CHECKED BY
R. GOLCHOBIAN

IN CHARGE
STEVE SMITH

DATE
10/31/2017

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
 ALTERNATIVE 5
 TRACK AND ROADWAY STRUCTURES
 KEY MAP
 SHEET 1 OF 2

CONTRACT NO.
HSR13-44

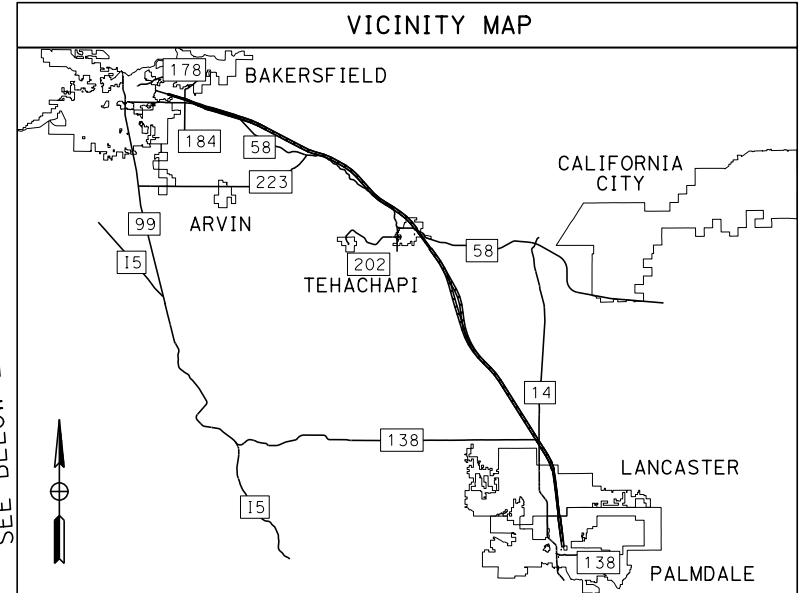
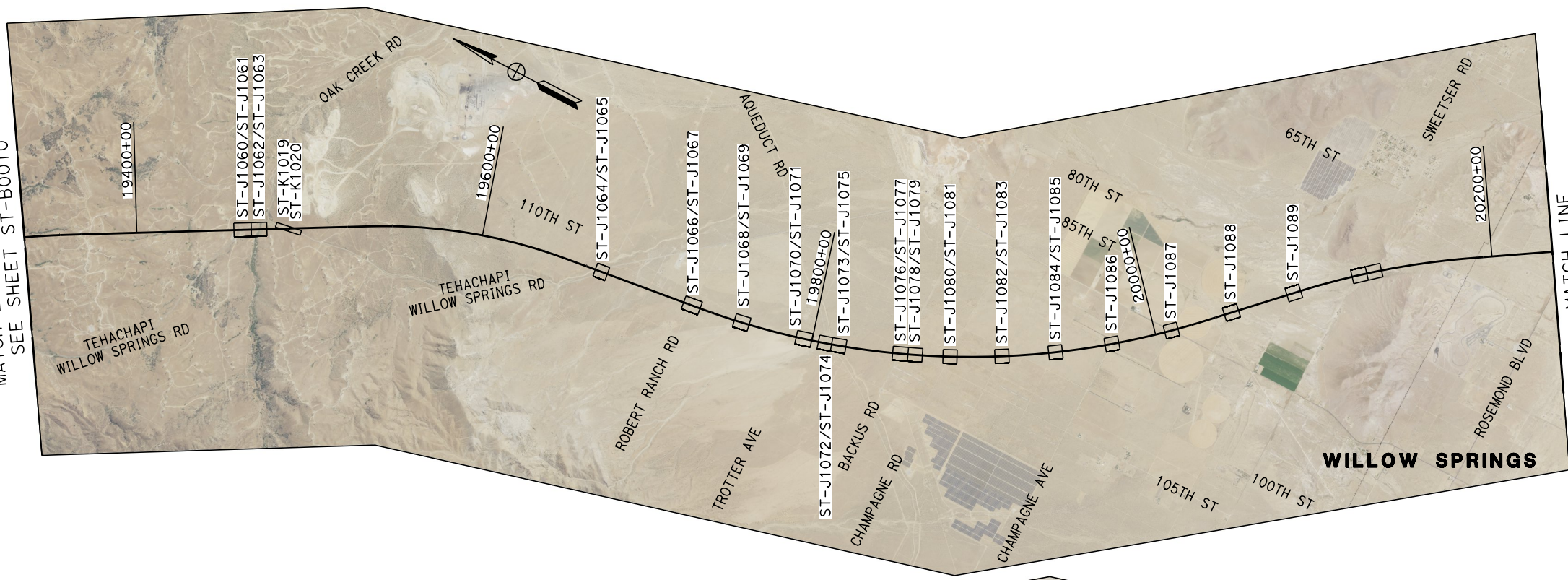
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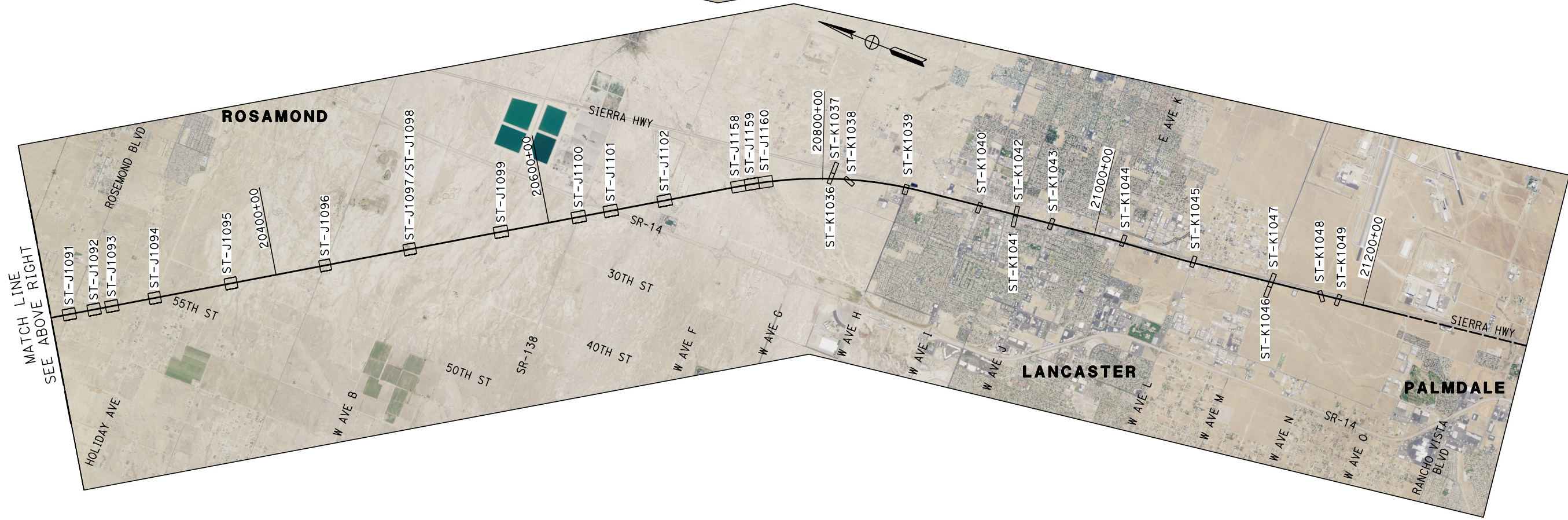
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ALTERNATIVE 5

MATCH LINE STA 19335+00
SEE SHEET ST-B0010



MATCH LINE
SEE BELOW LEFT



MATCH LINE
SEE ABOVE RIGHT

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11:18:08 AM

10/30/2017

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON

DRAWN BY
DYLAN WILEY

CHECKED BY
R. GOLCHOBIAN

IN CHARGE
STEVE SMITH

DATE
10/31/2017

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CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

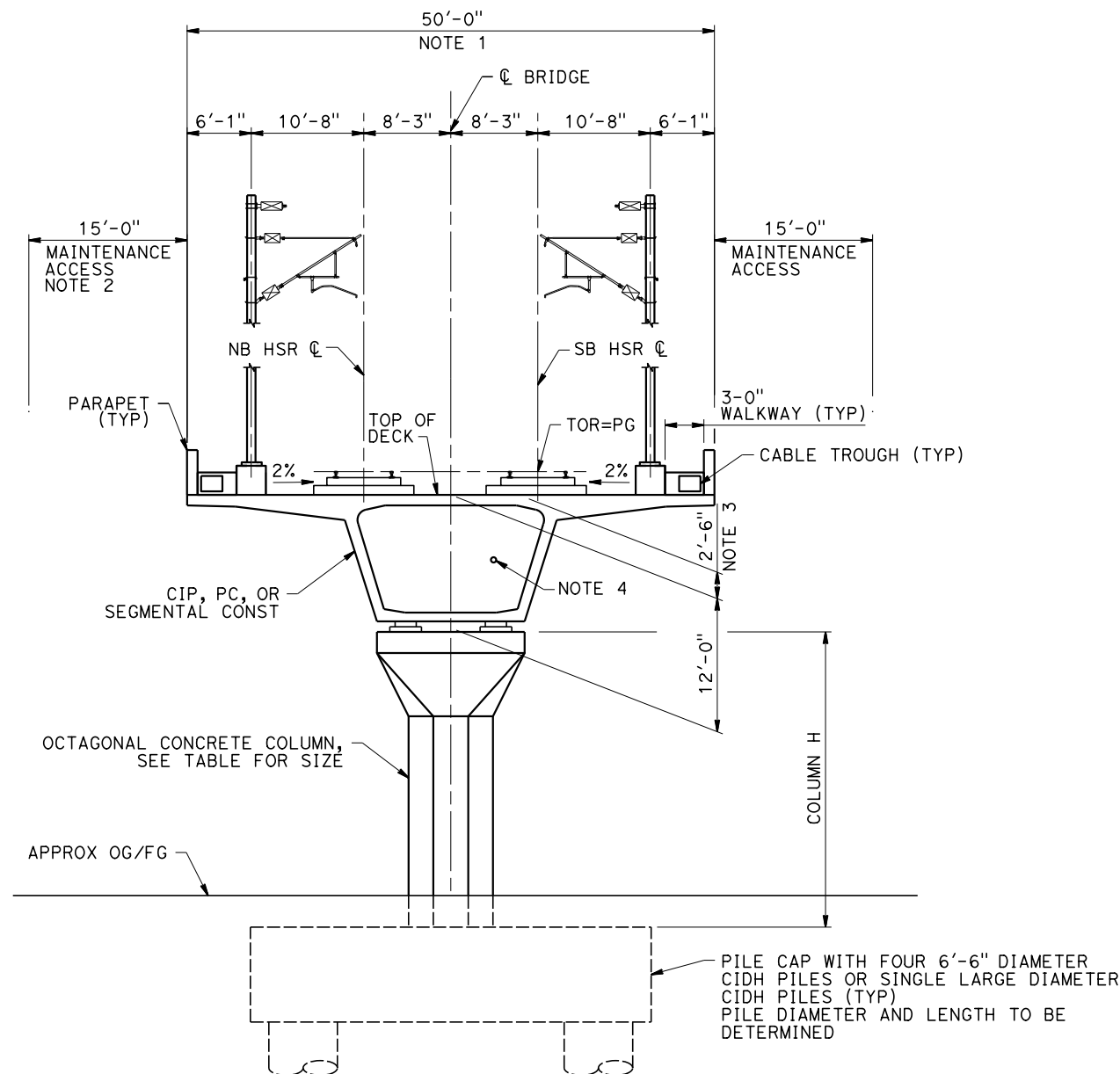
ALTERNATIVE 5
TRACK AND ROADWAY STRUCTURES
KEY MAP
SHEET 2 OF 2

CONTRACT NO.
HSR13-44

DRAWING NO.
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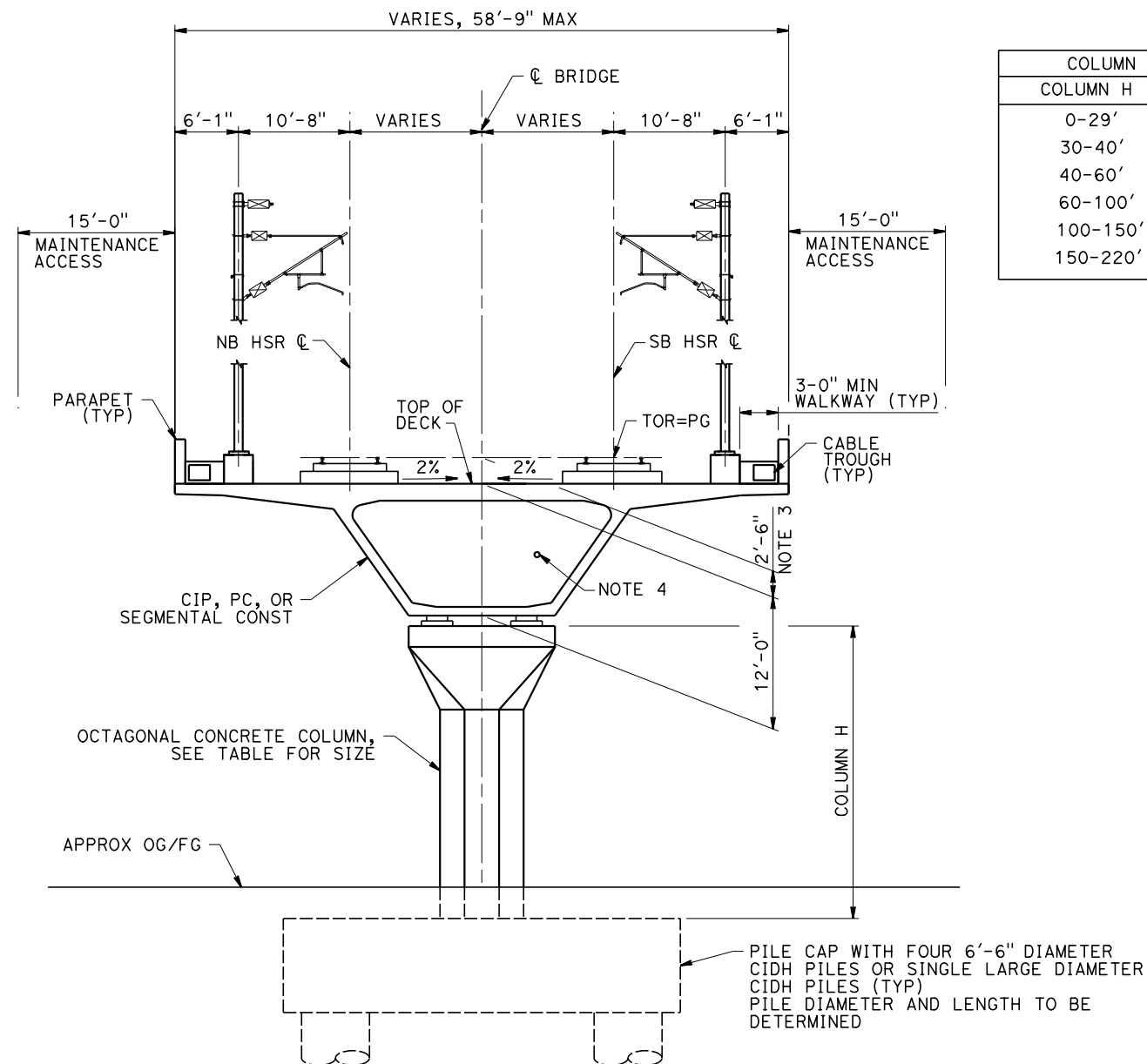
SCALE
AS SHOWN

SHEET NO.



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

STA 17285+00	TO	STA 17440+12.05	(ALT 1,3,5)
STA 17566+05	TO	STA 17567+40	(ALT 1,3,5)
STA 20118+70	TO	STA 20133+70	(ALT 1,2,3,5)
STA 20361+73	TO	STA 20367+57	(ALT 1,2,3,5)
STA 20496+96	TO	STA 20499+36	(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 20735+35	TO	STA 20761+65	(ALT 1,2,3)
STA 17285+00	TO	STA 17440+82.05	(ALT 2)
STA 17497+70	TO	STA 17530+80	(ALT 2)
STA 17744+35	TO	STA 17757+00	(ALT 2)
STA 17788+00	TO	STA 17789+30	(ALT 2)
STA 20735+35	TO	STA 20761+65	(ALT 5)
STA 17285+00	TO	STA 17370+41.55	(ALT B3-1,3,5)
STA 17285+00	TO	STA 17370+41.55	(ALT B3-2)



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

STA 17787+30	TO	STA 17788+70	(ALT 1,3,5)
STA 17841+15	TO	STA 17856+15	(ALT 1,3,5)
STA 18076+21	TO	STA 18108+11	(ALT 1,2,3,5)
STA 18158+15	TO	STA 18159+85	(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)

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

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 18034+00 TO 19591+00.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY ROB BARTON
DRAWN BY YIHONG WANG
CHECKED BY R. GOLCHOBIAN
IN CHARGE STEVE SMITH
DATE 10/31/2017

**RECORD
PEPD
SUBMITTAL**

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CONSTRUCTION**



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

GENERAL
TYPICAL SECTIONS
SHEET 1 OF 10

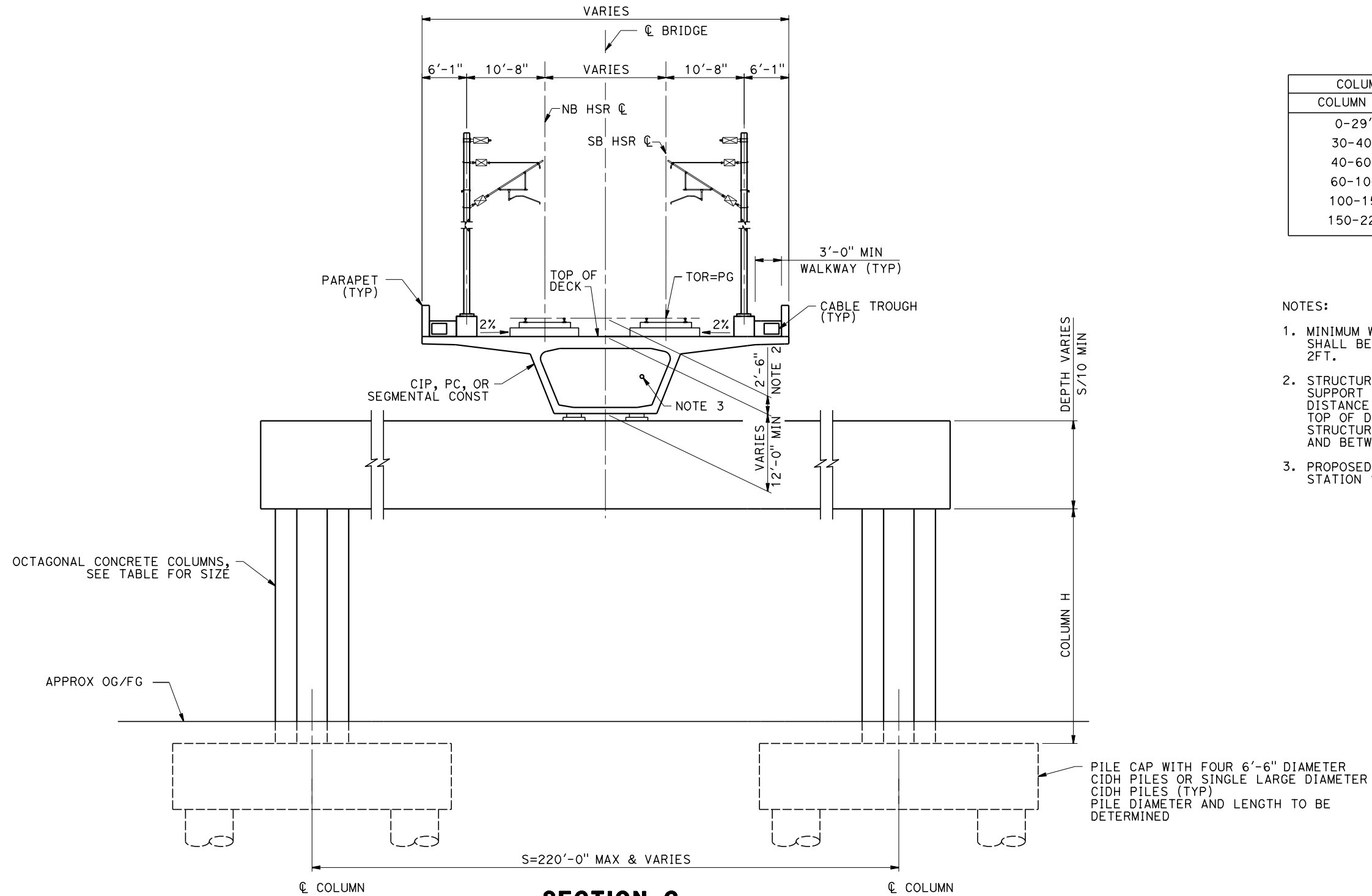
CONTRACT NO. HSR13-44
DRAWING NO. ST-B3001
SCALE AS SHOWN
SHEET NO.

Projects\701206.00_CADD\Sheet_Files\ST\BP-ST-B3002.dgn

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10/30/2017

TYLIN\Wang



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 18034+00 TO 19591+00.

SECTION C
SCALE: 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 18834+70	(ALT 1,2,3,5)
STA 18871+60	(ALT 1,2,3,5)
STA 17401+82.05 TO STA 17407+02.05	(ALT 2)
STA 17497+70 TO STA 17530+80	(ALT 2)
STA 17317+52.05 TO STA 17355+32.05	(ALT B3-1,3,5)
STA 17319+92.05 TO STA 17355+32.05	(ALT B3-2)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROB BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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

GENERAL
TYPICAL SECTIONS
SHEET 2 OF 10

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

NOTES:

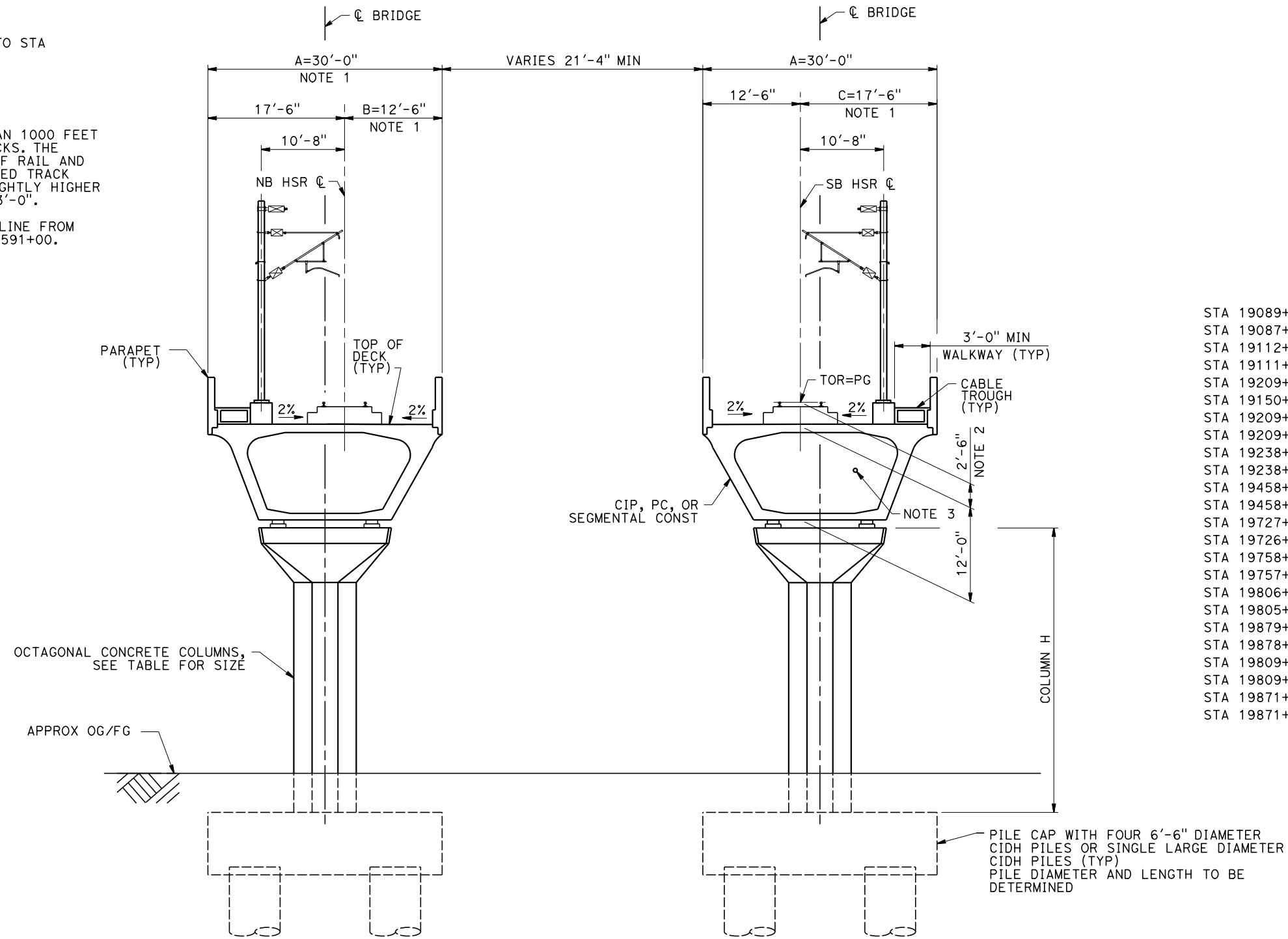
1. BETWEEN STA 19458+00 TO STA 19473+80 ALT 1,2,5:

A=38'-3"
B=20'-9"
C=25'-3"

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 18034+00 TO 19591+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 19089+39	TO	STA 19097+69	NB (ALT 1,2,3,5)
STA 19087+70	TO	STA 19097+40	SB (ALT 1,2,3,5)
STA 19112+17	TO	STA 19130+17	NB (ALT 1,2,3,5)
STA 19111+30	TO	STA 19129+80	SB (ALT 1,2,3,5)
STA 19209+65	TO	STA 19217+65	NB (ALT 1,2,3,5)
STA 19150+60	TO	STA 19157+10	SB (ALT 1,2,3,5)
STA 19209+65	TO	STA 19217+65	NB (ALT 1,2,3,5)
STA 19209+30	TO	STA 19217+30	SB (ALT 1,2,3,5)
STA 19238+95	TO	STA 19245+65	NB (ALT 1,2,3,5)
STA 19238+85	TO	STA 19245+55	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+38	TO	STA 19729+03	NB (ALT 1,2,5)
STA 19726+75.35	TO	STA 19728+40.35	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 19879+15	TO	STA 19884+65	NB (ALT 1,2,5)
STA 19878+69	TO	STA 19884+19	SB (ALT 1,2,5)
STA 19809+65	TO	STA 19820+75	NB (ALT 3)
STA 19809+75	TO	STA 19820+65	SB (ALT 3)
STA 19871+67	TO	STA 19877+47	NB (ALT 3)
STA 19871+54	TO	STA 19877+34	SB (ALT 3)

SEE NOTE 1
SEE NOTE 1

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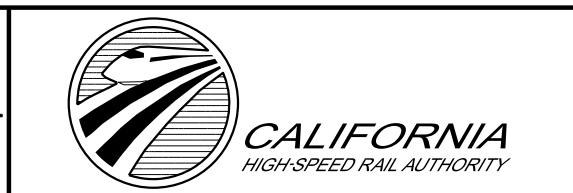
TYLIN\Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROB BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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SUBMITTAL**

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CONSTRUCTION**



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

GENERAL
TYPICAL SECTIONS
SHEET 3 OF 10

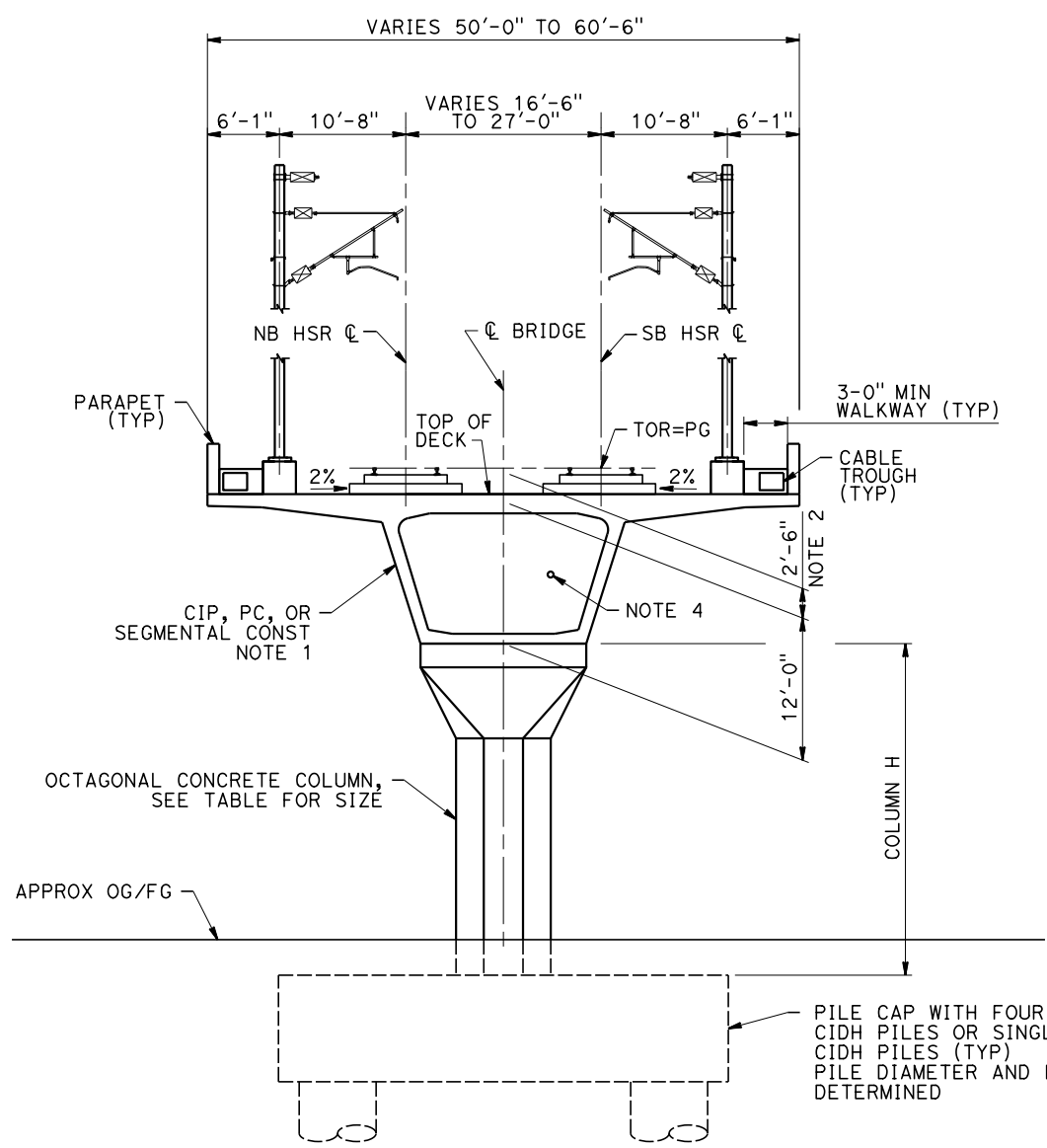
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HSR13-44
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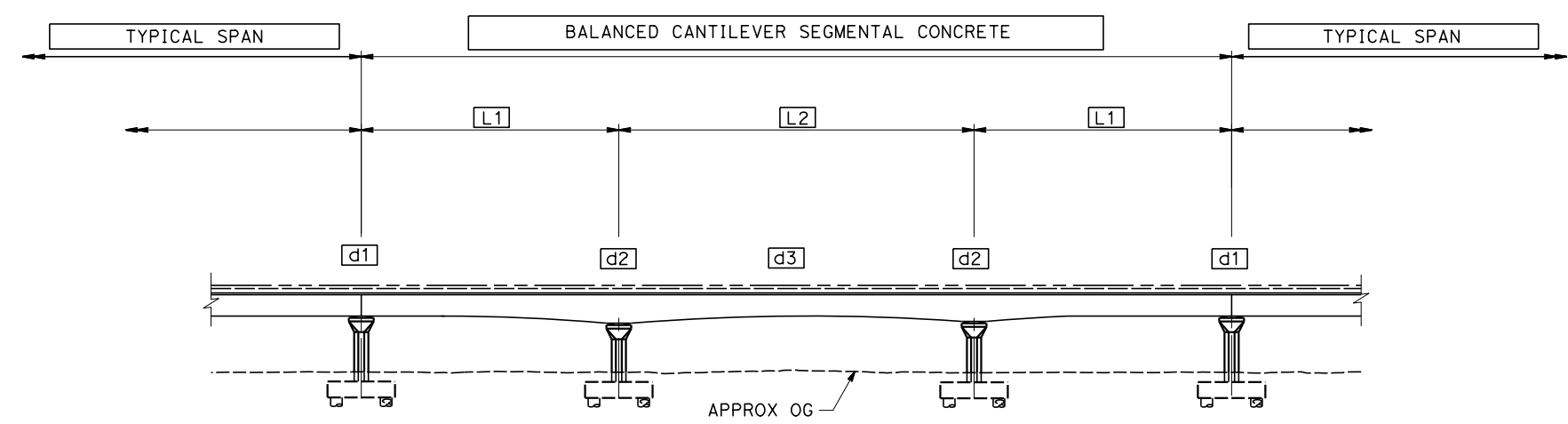
TYLIN\Wang



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 18034+00 TO 19591+00.



BALANCED CANTILEVER SEGMENTAL

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

SECTION E

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

STA 17282+42.05 TO STA 17287+12.05 (ALT 1,3,5)	STA 20361+73 TO STA 20367+57 (ALT 1,2,3,5)
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 20641+00 TO STA 20649+80 (ALT 1,2,3,5)
STA 17674+45 TO STA 17677+45 (ALT 1,3,5)	STA 20682+97 TO STA 20686+37 (ALT 1,2,3,5)
STA 17729+75 TO STA 17732+75 (ALT 1,3,5)	STA 20735+35 TO STA 20761+65 (ALT 1,2,3)
STA 18076+21 TO STA 18108+11 (ALT 1,2,3,5)	STA 19972+75 TO STA 19975+75 (ALT 1,2,5)
STA 18463+56 TO STA 18475+16 (ALT 1,2,3,5)	STA 17285+00 TO STA 17440+82.05 (ALT 2)
STA 18561+10 TO STA 18575+70 (ALT 1,2,3,5)	STA 17451+89 TO STA 17455+29 (ALT 2)
STA 18828+25 TO STA 18874+85 (ALT 1,2,3,5)	STA 17497+70 TO STA 17530+80 (ALT 2)
STA 20006+70 TO STA 20011+55 (ALT 1,2,3,5)	STA 17565+40 TO STA 17568+80 (ALT 2)
STA 20044+25 TO STA 20048+15 (ALT 1,2,3,5)	STA 17620+00 TO STA 17624+20 (ALT 2)
STA 20082+20 TO STA 20085+80 (ALT 1,2,3,5)	STA 17730+77 TO STA 17734+97 (ALT 2)
STA 20118+70 TO STA 20133+70 (ALT 1,2,3,5)	STA 17842+85 TO STA 17855+65 (ALT 2)
STA 20246+35 TO STA 20249+95 (ALT 1,2,3,5)	STA 19968+17 TO STA 19971+17 (ALT 3)
STA 20264+90 TO STA 20269+60 (ALT 1,2,3,5)	STA 20004+65 TO STA 20008+90 (ALT 3)
STA 20278+35 TO STA 20281+35 (ALT 1,2,3,5)	STA 20735+35 TO STA 20761+65 (ALT 5)
STA 20309+31 TO STA 20312+91 (ALT 1,2,3,5)	STA 17285+00 TO STA 17370+41.55 (ALT B3-1,3,5)
	STA 17285+00 TO STA 17370+41.55 (ALT B3-2)
	STA 25+74 TO STA 28+74 (MOIS-ED)

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROB BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOUBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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PEPD
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CONSTRUCTION**



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

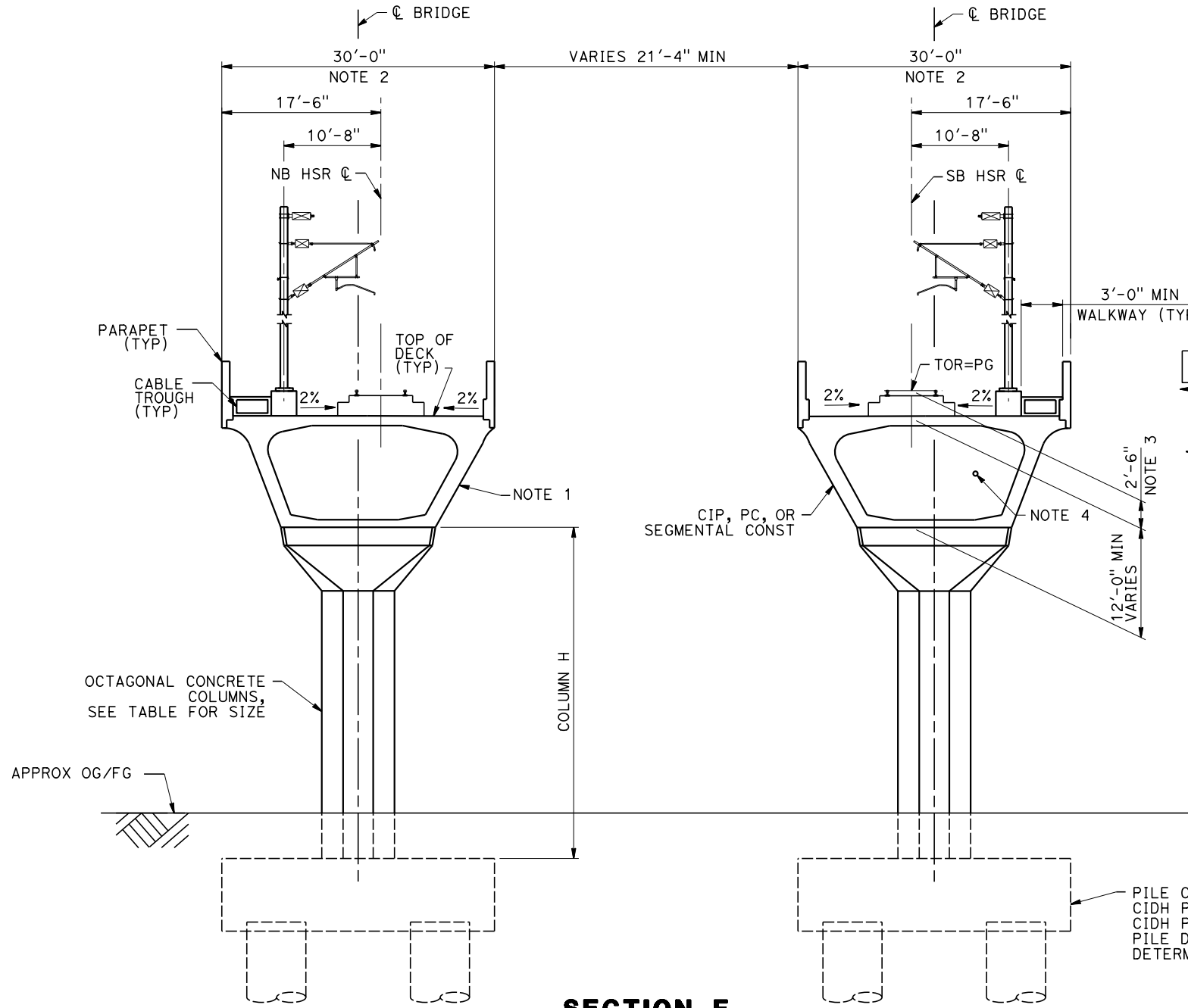
GENERAL
TYPICAL SECTIONS
SHEET 4 OF 10

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

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\ST-BP-ST-B3005.dgn

10/30/2017 11:13:16 AM

TYLIN Wang

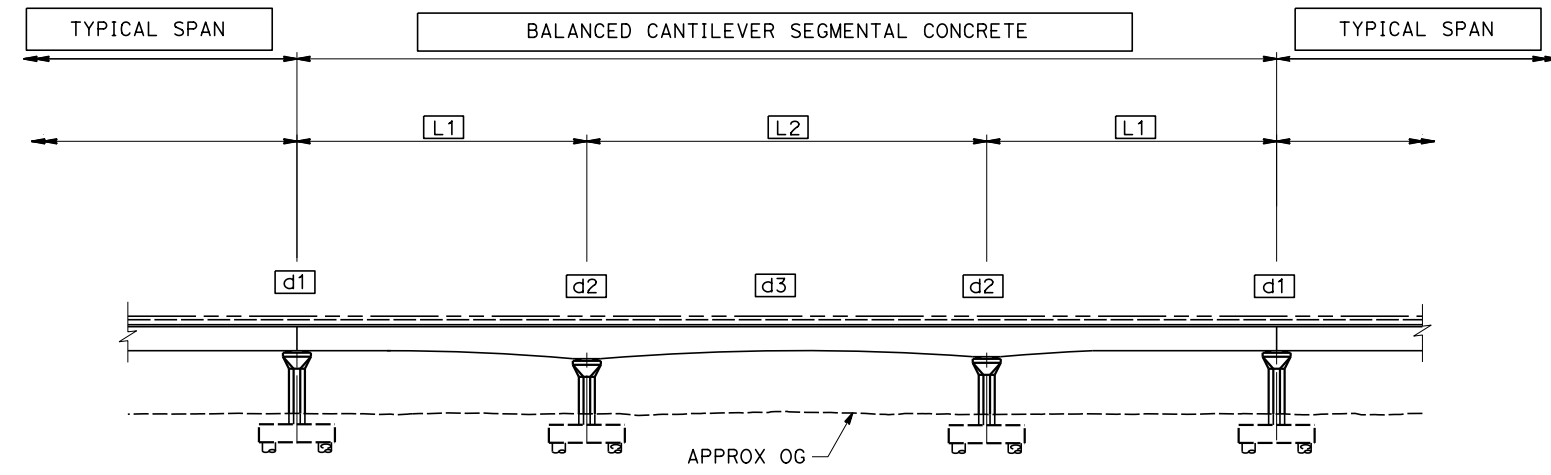


SECTION F
SCALE: 1/4"=1'-0"

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.
- 40'-0" BETWEEN STA 19465+95 TO STA 19471+05 (ALT 3)
38'-3" BETWEEN STA 19458+00 TO STA 19473+80 (ALT 1,2,5)
- 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 18034+00 TO 19591+00.



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

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

STA 19089+39 TO STA 19097+69 NB (ALT 1,2,3,5)	STA 19793+93 TO STA 19797+53 NB (ALT 1,2,5)	STA 19453+40 TO STA 19456+80 NB (ALT 3)	STA 19861+67 TO STA 19877+47 NB (ALT 3)
STA 19087+70 TO STA 19097+40 SB (ALT 1,2,3,5)	STA 19793+39 TO STA 19796+99 SB (ALT 1,2,5)	STA 19452+65 TO STA 19456+05 SB (ALT 3)	STA 19871+54 TO STA 19877+34 SB (ALT 3)
STA 19122+17 TO STA 19130+17 NB (ALT 1,2,3,5)	STA 19806+35 TO STA 19818+85 NB (ALT 1,2,5)	STA 19466+10 TO STA 19471+05 NB (ALT 3)	STA 19902+49 TO STA 19905+49 NB (ALT 3)
STA 19111+30 TO STA 19129+80 SB (ALT 1,2,3,5)	STA 19805+90 TO STA 19818+40 SB (ALT 1,2,5)	STA 19465+95 TO STA 19470+80 SB (ALT 3)	STA 19902+40 TO STA 19905+40 SB (ALT 3)
STA 19150+95 TO STA 19157+45 NB (ALT 1,2,3,5)	STA 198150+48 TO STA 19853+48 NB (ALT 1,2,5)	STA 19785+50 TO STA 19789+10 NB (ALT 3)	STA 19934+36 TO STA 19937+36 NB (ALT 3)
STA 19150+60 TO STA 19157+10 SB (ALT 1,2,3,5)	STA 19850+00 TO STA 19853+00 SB (ALT 1,2,5)	STA 19785+30 TO STA 19788+90 SB (ALT 3)	STA 19934+30 TO STA 19937+30 SB (ALT 3)
STA 19272+35 TO STA 19276+75 NB (ALT 1,2,3,5)	STA 19858+57 TO STA 19861+57 NB (ALT 1,2,5)	STA 19798+32 TO STA 19801+52 NB (ALT 3)	
STA 19271+75 TO STA 19276+45 SB (ALT 1,2,3,5)	STA 19858+10 TO STA 19861+10 SB (ALT 1,2,5)	STA 19798+13 TO STA 19801+33 SB (ALT 3)	
STA 19238+95 TO STA 19245+65 NB (ALT 1,2,3,5)	STA 19879+15 TO STA 19884+65 NB (ALT 1,2,5)	STA 19809+65 TO STA 19820+75 NB (ALT 3)	
STA 19238+85 TO STA 19245+55 SB (ALT 1,2,3,5)	STA 19878+69 TO STA 19884+19 SB (ALT 1,2,5)	STA 19809+75 TO STA 19820+65 SB (ALT 3)	
STA 19458+20 TO STA 19473+80 NB (ALT 1,2,5) SEE NOTES	STA 19909+11 TO STA 19912+11 NB (ALT 1,2,5)	STA 19842+70 TO STA 19845+70 NB (ALT 3)	
STA 19458+00 TO STA 19473+50 SB (ALT 1,2,5) SEE NOTES	STA 19908+69 TO STA 19911+69 SB (ALT 1,2,5)	STA 19842+55 TO STA 19845+55 SB (ALT 3)	
STA 19670+80 TO STA 19674+50 NB (ALT 1,2,5)	STA 19940+37 TO STA 19943+37 NB (ALT 1,2,5)	STA 19862+90 TO STA 19865+90 NB (ALT 3)	
STA 19669+54 TO STA 19673+24 SB (ALT 1,2,5)	STA 19939+97 TO STA 19942+97 SB (ALT 1,2,5)	STA 19862+80 TO STA 19865+80 SB (ALT 3)	

DESIGNED BY
ROB BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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

GENERAL
TYPICAL SECTIONS
SHEET 5 OF 10

CONTRACT NO.
HSR13-44

DRAWING NO.
ST-B3005

SCALE
AS SHOWN

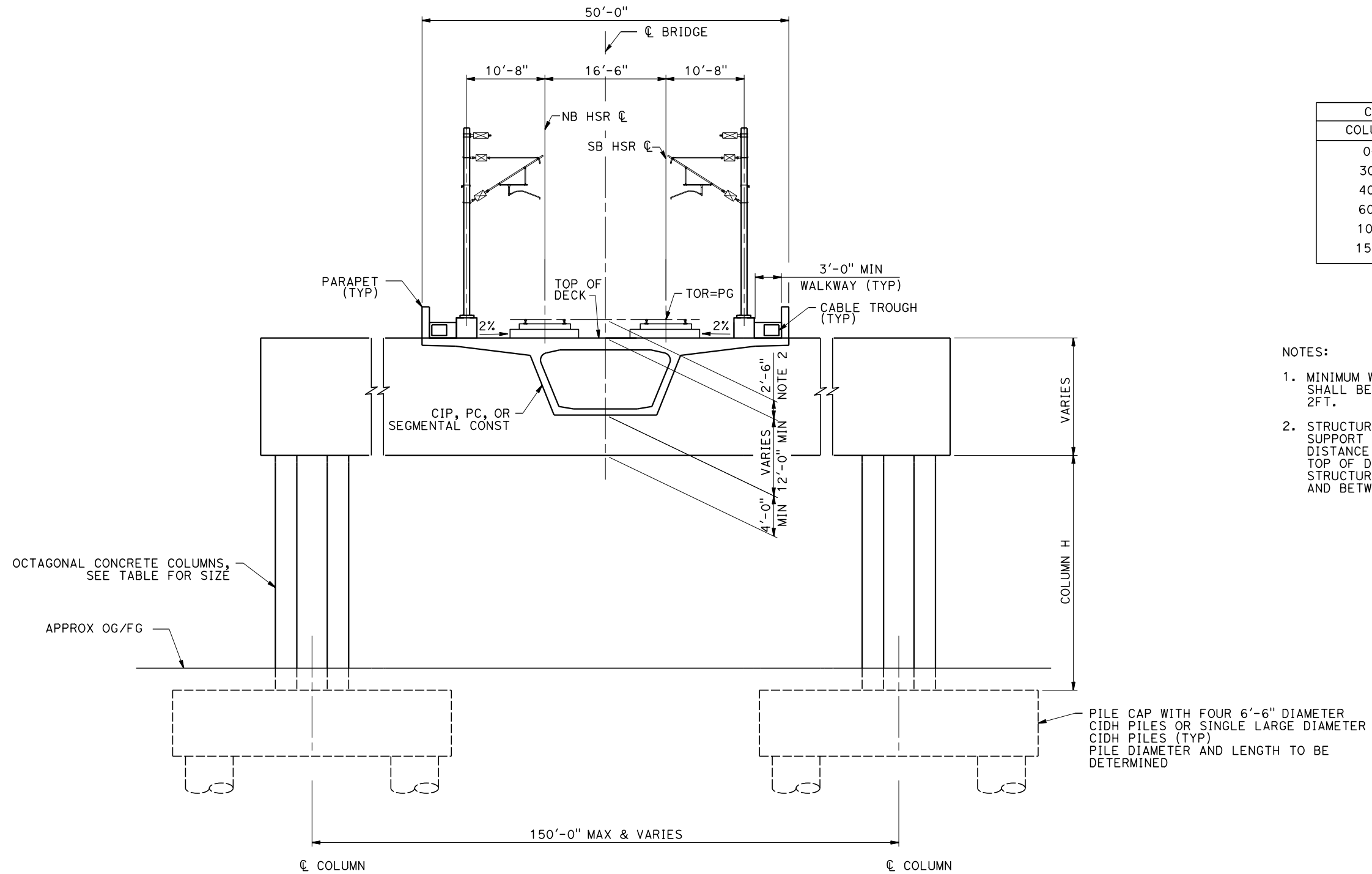
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REV	DATE	BY	CHK	APP	DESCRIPTION

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11:13:00 AM

TYLIN\Y.Wang



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".

SECTION G
 SCALE: 1/2"=1'-0"
 STA 17744+35 TO STA 17757+00 (ALT 2)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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 DRAWN BY
YIHONG WANG
 CHECKED BY
R. GOLCHOBIAN
 IN CHARGE
STEVE SMITH
 DATE
10/31/2017

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

GENERAL
 TYPICAL SECTIONS
 SHEET 6 OF 10

CONTRACT NO.
HSR13-44

DRAWING NO.
ST-B3006

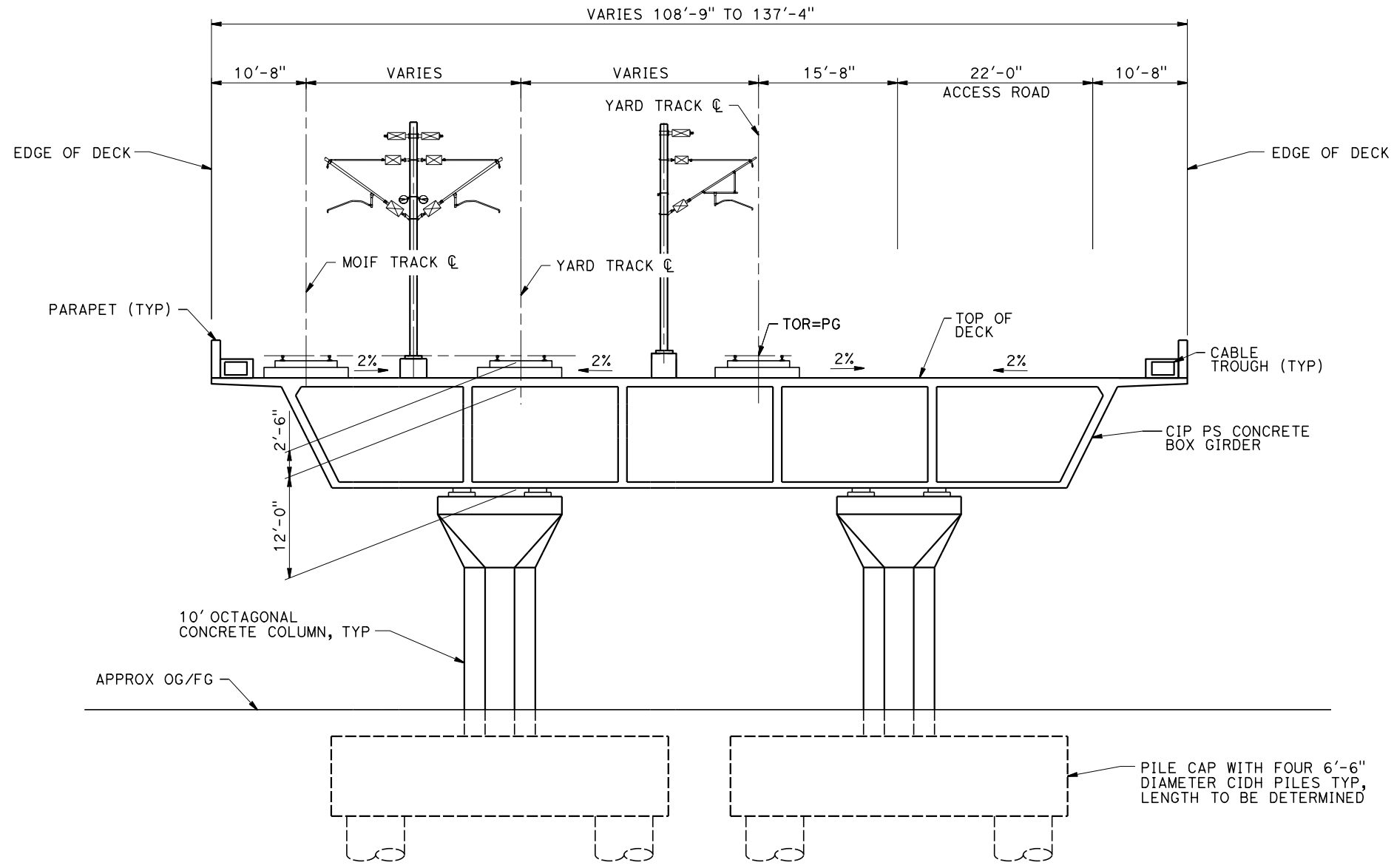
SCALE
AS SHOWN

SHEET NO.

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\ST\BP-ST-B3007.dgn

10/30/2017 11:17:08 AM

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SECTION H

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

STATION 126+74.36 TO 129+14.36 "MOIF LEAD" (ALT 1,2,3,5)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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

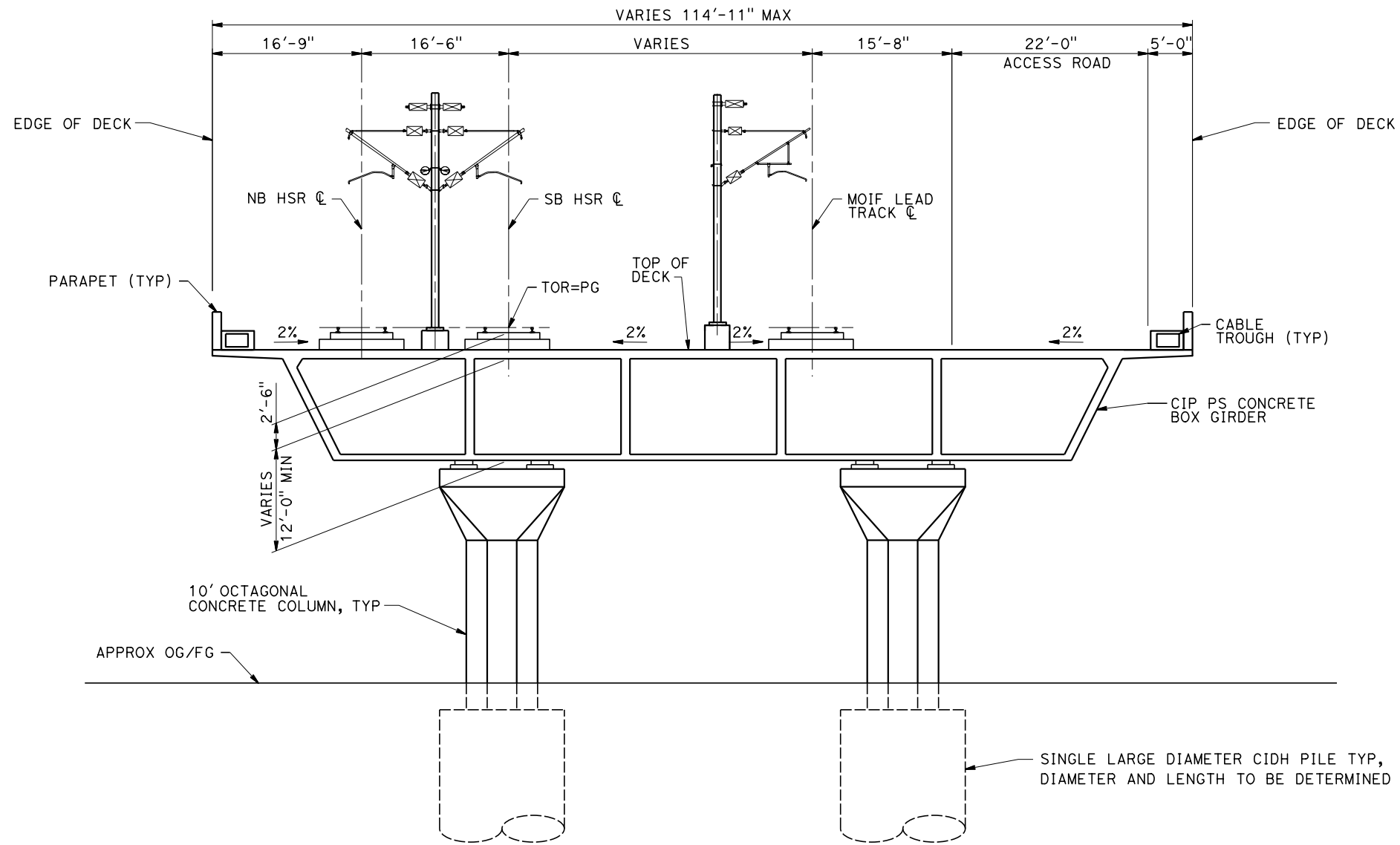
GENERAL
TYPICAL SECTIONS
SHEET 7 OF 10

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-B3007
SCALE
AS SHOWN
SHEET NO.

Projects\701206.00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-B3008.dgn

10/30/2017 11:23:50 AM

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SECTION I

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

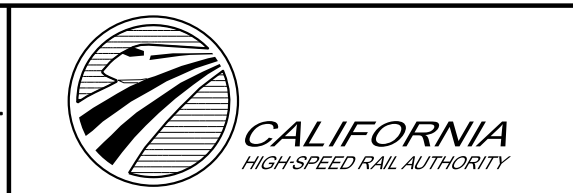
STA 20462+30 TO STA 20473+00 (ALT 1,2,3,5)
 STA 20558+82 TO STA 20568+62 (ALT 1,2,3,5)
 STA 17675+79 TO STA 17679+49 (ALT 2)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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 DRAWN BY
YIHONG WANG
 CHECKED BY
R. GOLCHOBIAN
 IN CHARGE
STEVE SMITH
 DATE
10/31/2017

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

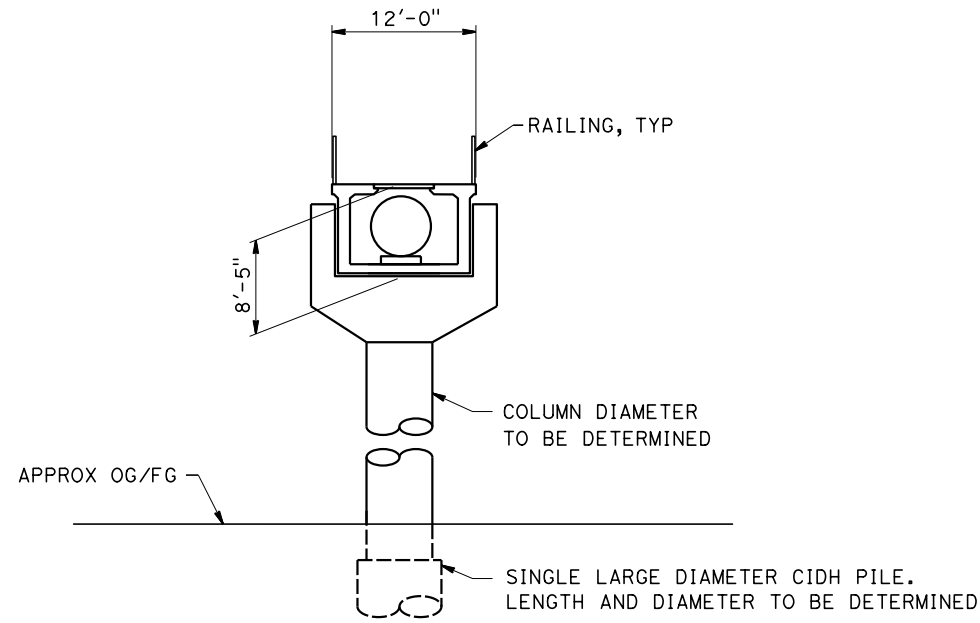
GENERAL
 TYPICAL SECTIONS
 SHEET 8 OF 10

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

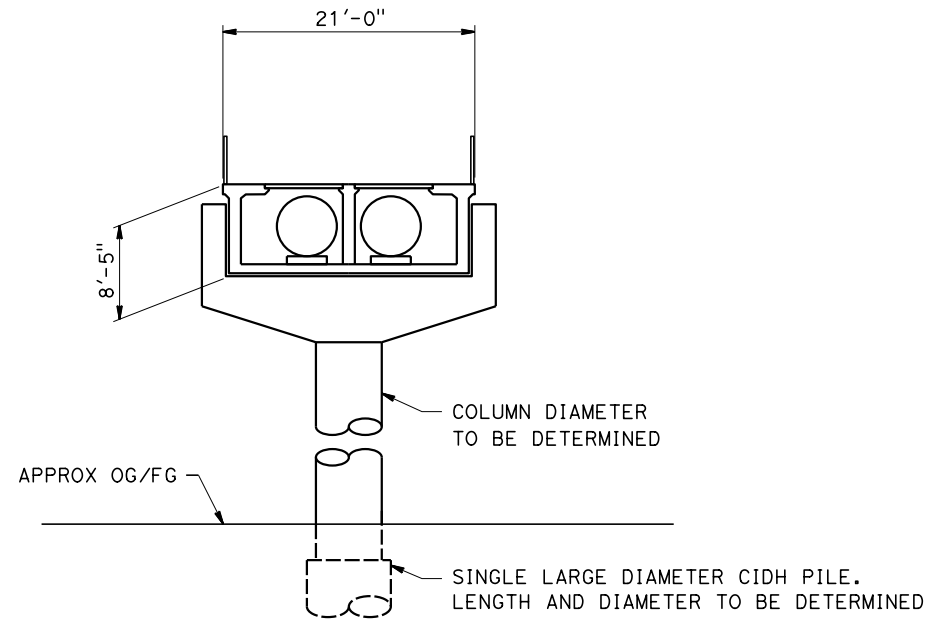
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10/30/2017 11:17:21 AM

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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 CV-G SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

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YIHONG WANG
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IN CHARGE
STEVE SMITH
DATE
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

GENERAL
TYPICAL SECTIONS
SHEET 9 OF 10

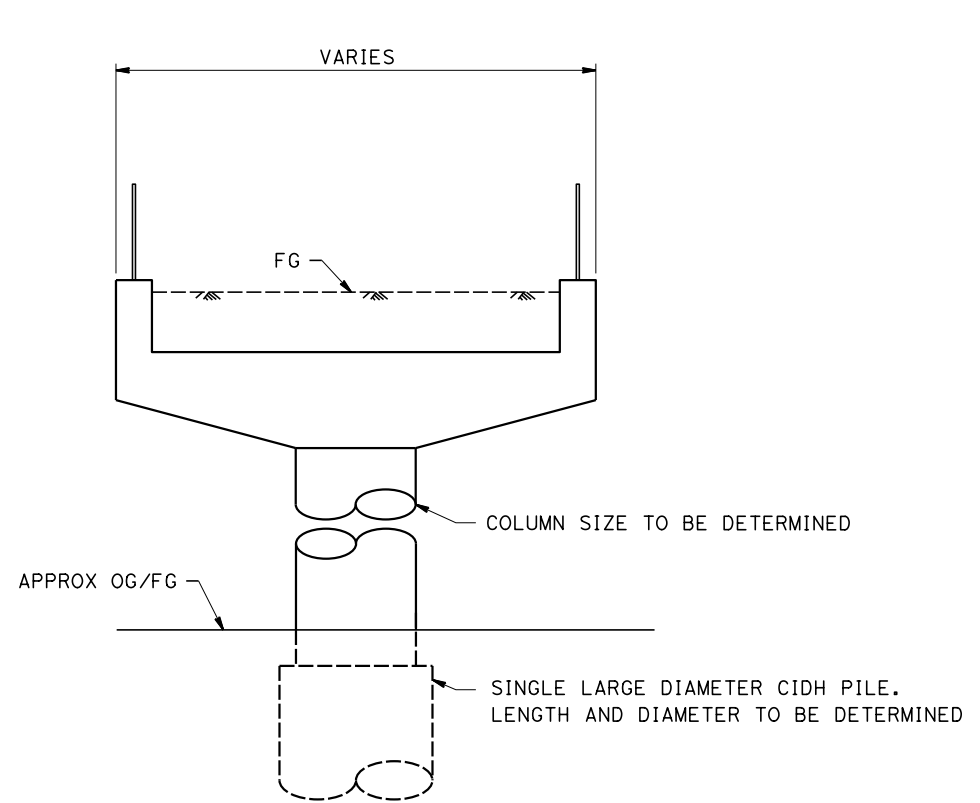
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HSR13-44
DRAWING NO.
ST-B3009
SCALE
AS SHOWN
SHEET NO.

Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-B3010.dgn

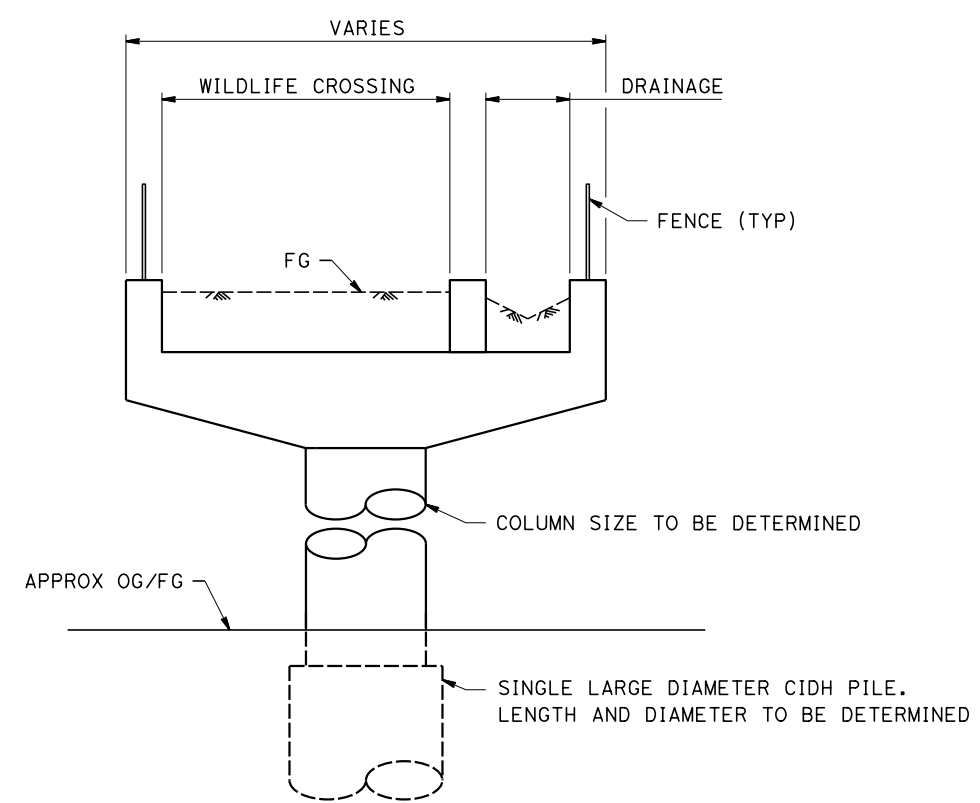
11:15:25 AM

10/30/2017

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



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

ELEVATED WILDLIFE CROSSINGS

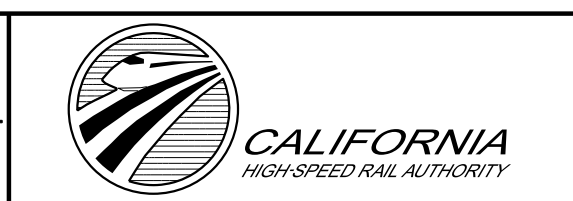
NOTE:
FOR LOCATIONS OF CROSSINGS
SEE CV-G SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROB BARTON
DRAWN BY
YIHONG WANG
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R. GOLCHOOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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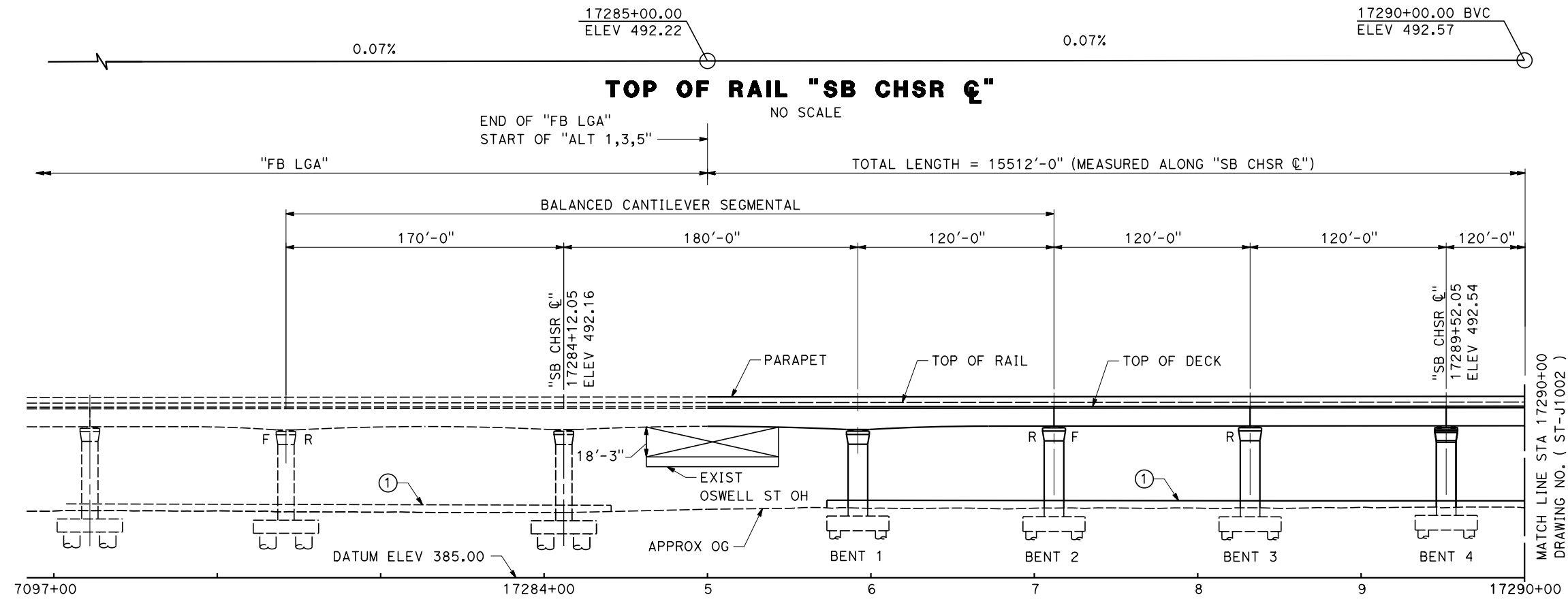
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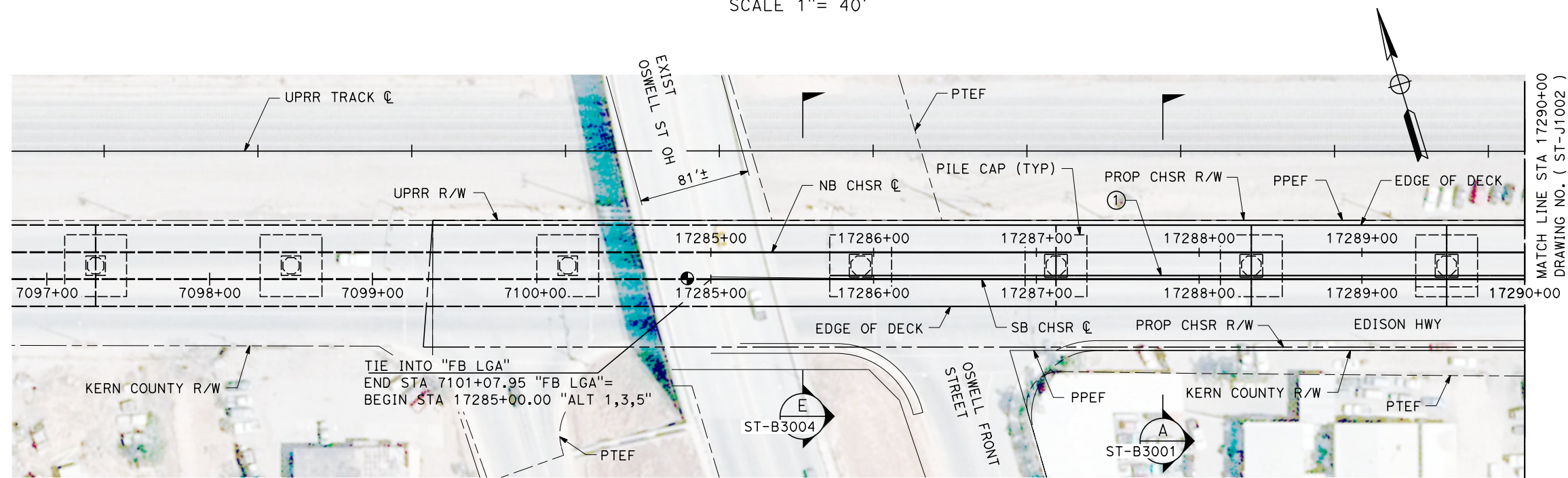
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

GENERAL
TYPICAL SECTIONS
SHEET 10 OF 10

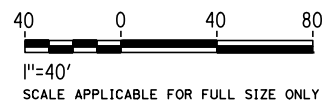
CONTRACT NO.
HSR13-44
DRAWING NO.
ST-B3010
SCALE
AS SHOWN
SHEET NO.



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



MATCH LINE STA 17290+00
DRAWING NO. (ST-J1002)

MATCH LINE STA 17290+00
DRAWING NO. (ST-J1002)

Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1001.dgn

10/30/2017 11:10:34 AM

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ROBERT BARTON

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YIHONG WANG

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R. GOLCHOBIAN

IN CHARGE
STEVE SMITH

DATE
10/31/2017

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44

DRAWING NO.
ST-J1001

SCALE
AS SHOWN

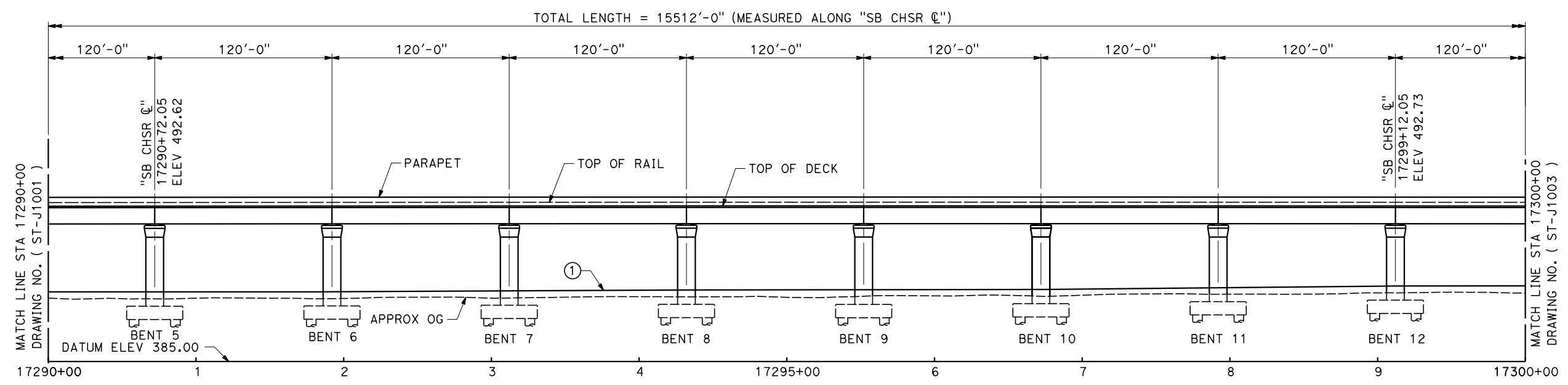
SHEET NO.

17290+00.00 BVC
ELEV 492.57

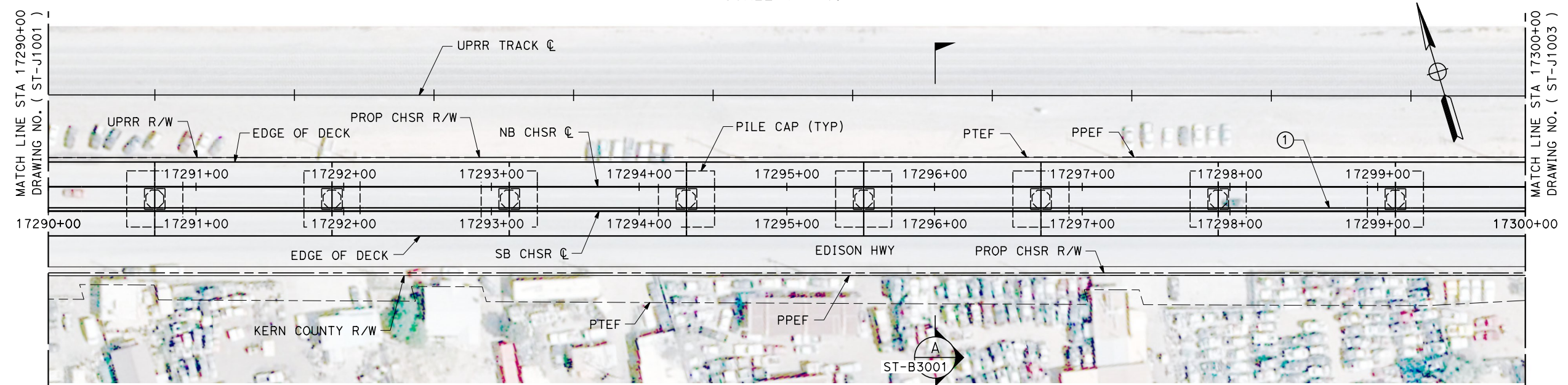
1200' VC
RC = -0.01/STA

17302+00.00 EVC
ELEV 492.58

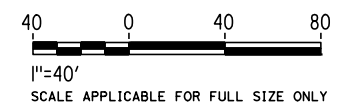
TOP OF RAIL "SB CHSR C"
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1002.dgn

11:17:37 AM

10/30/2017

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44

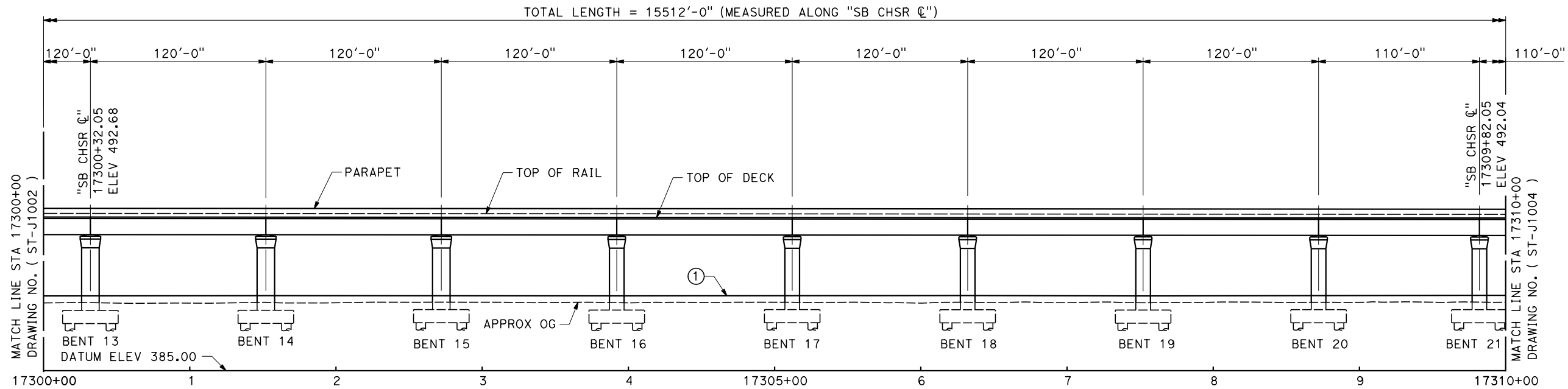
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ST-J1002

SCALE
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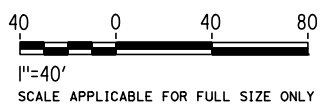
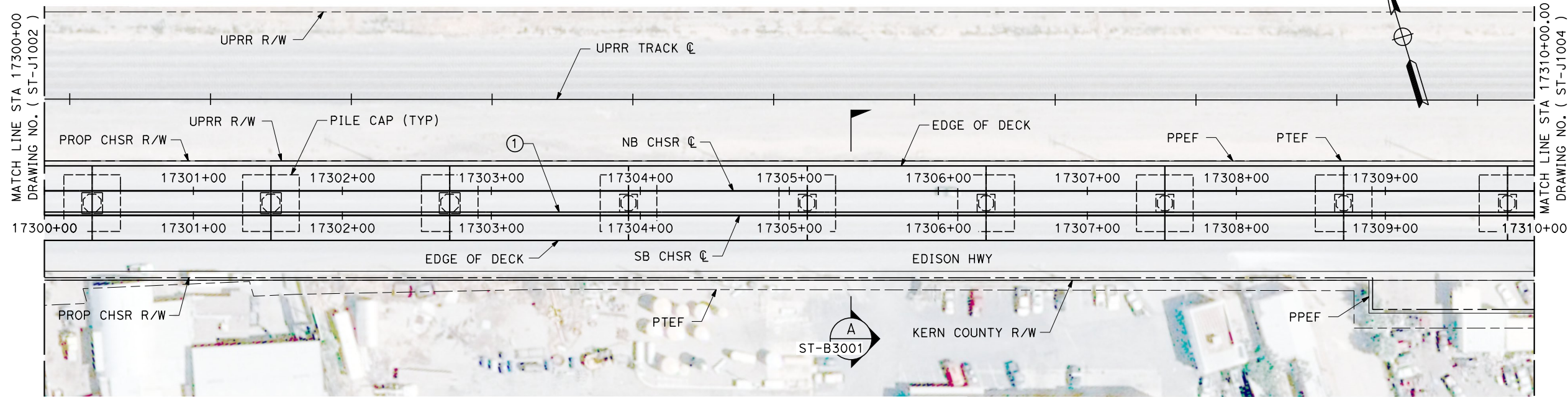
SHEET NO.



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-J1003.dgn

10/30/2017 11:10:17 AM

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ROBERT BARTON
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YIHONG WANG
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IN CHARGE
STEVE SMITH
DATE
10/31/2017

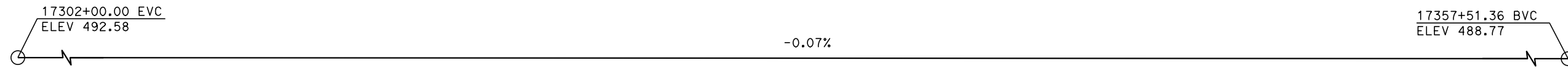
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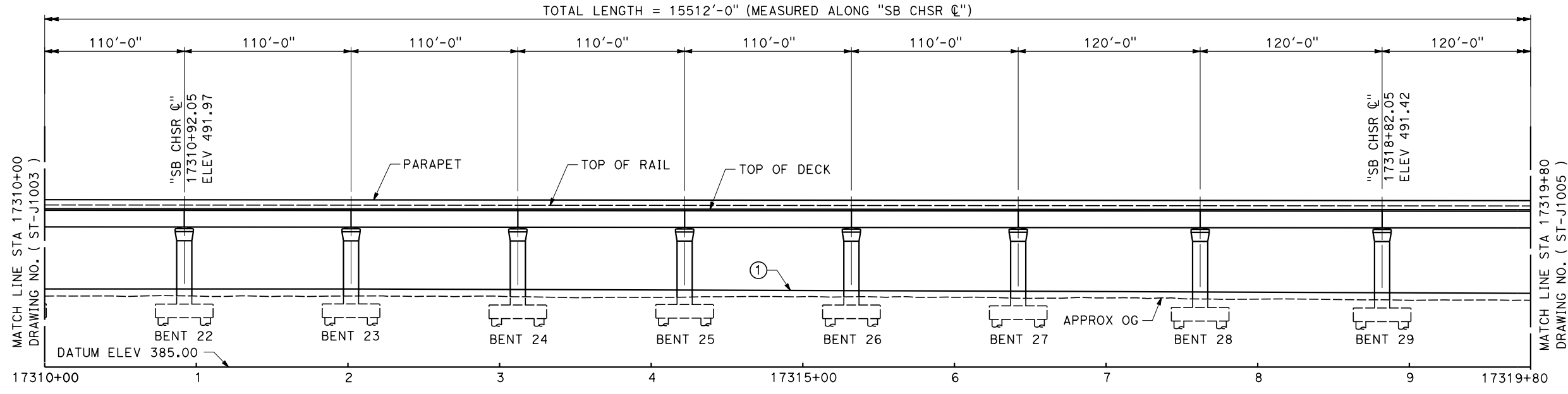


CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

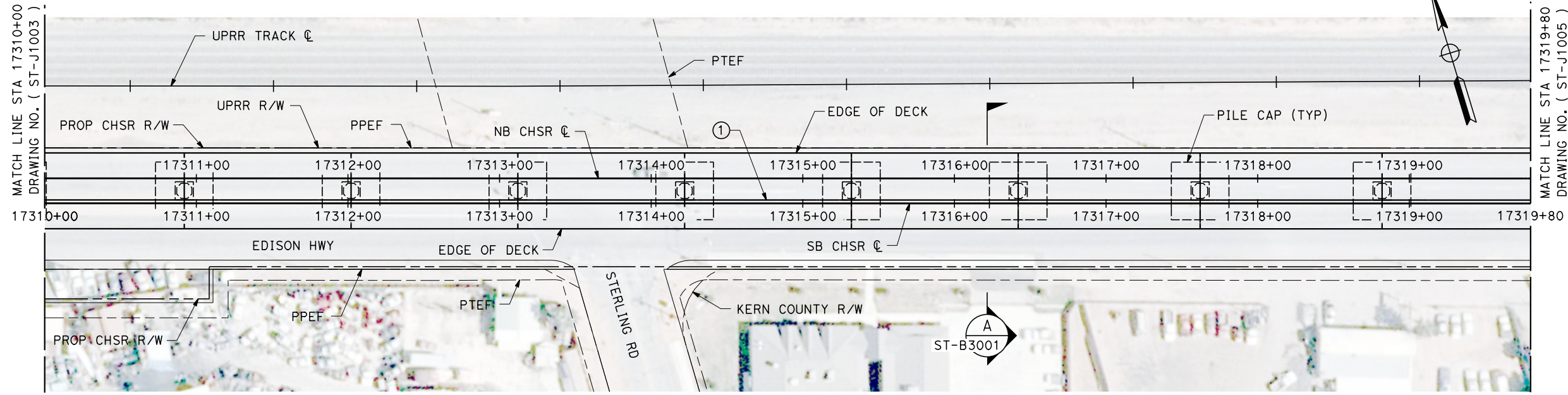
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DRAWING NO.
ST-J1003
SCALE
AS SHOWN
SHEET NO.



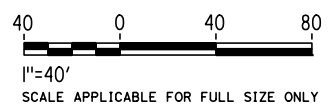
TOP OF RAIL "SB CHSR C"
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1004.dgn
11:10:37 AM
10/30/2017
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CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

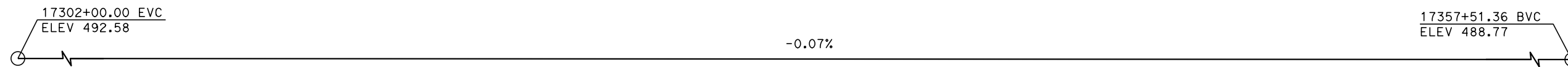
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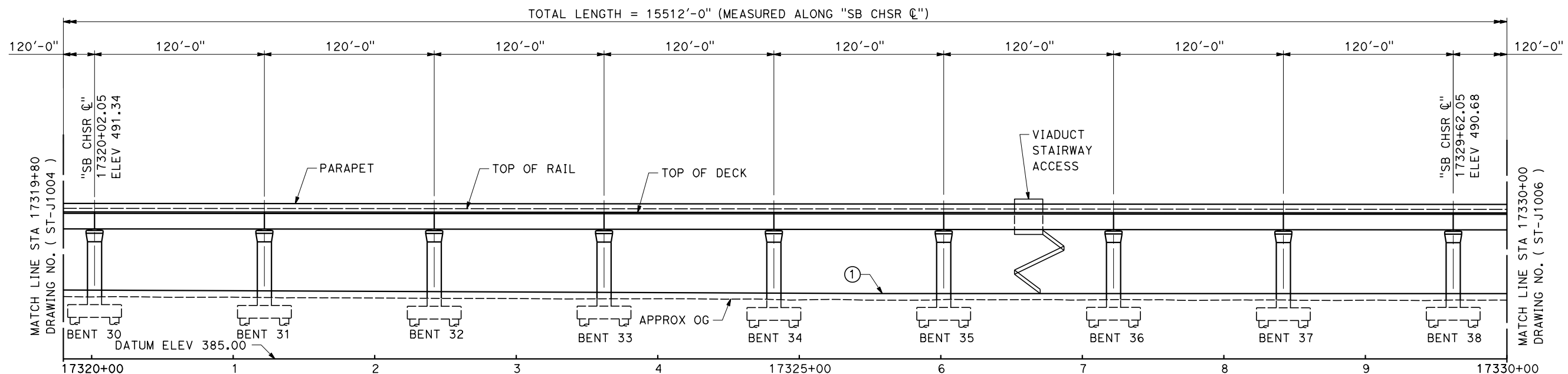


CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

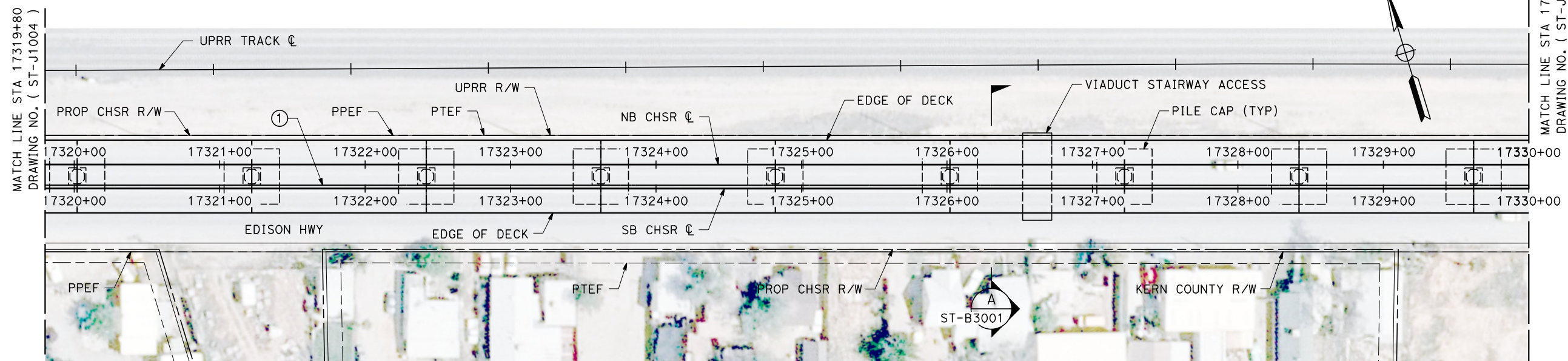
CONTRACT NO.
HSR 13-44
DRAWING NO.
ST-J1004
SCALE
AS SHOWN
SHEET NO.



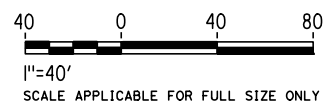
TOP OF RAIL "SB CHSR C"
NO SCALE



ELEVATION
SCALE 1"= 40'



PLAN
SCALE 1"= 40'



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1005.dgn

10/30/2017 11:21:33 AM

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CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

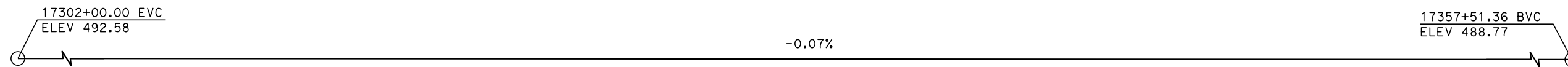
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CONSTRUCTION**



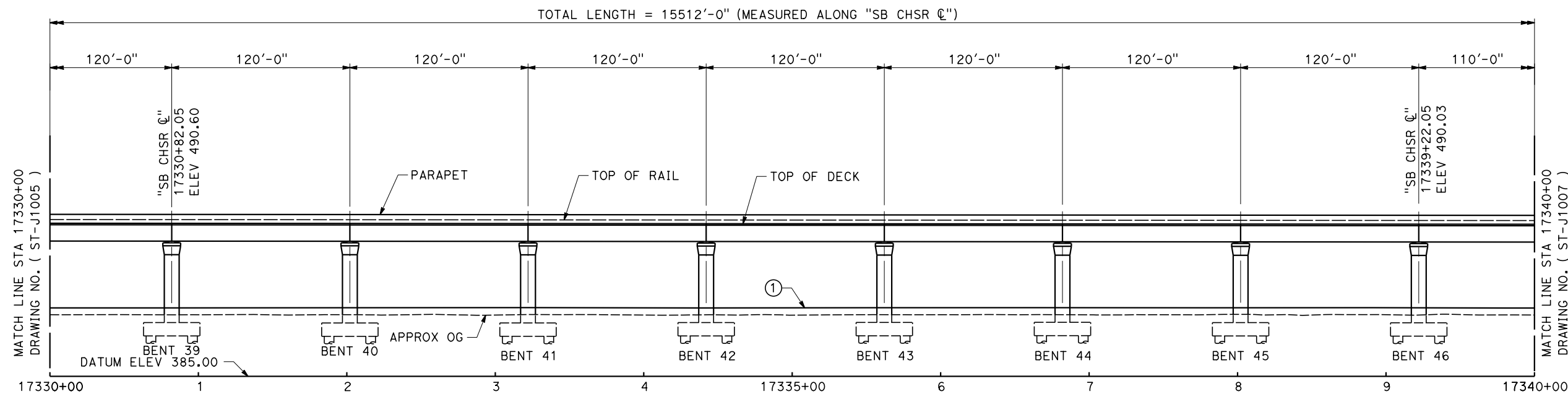
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44
DRAWING NO.
ST-J1005
SCALE
AS SHOWN
SHEET NO.



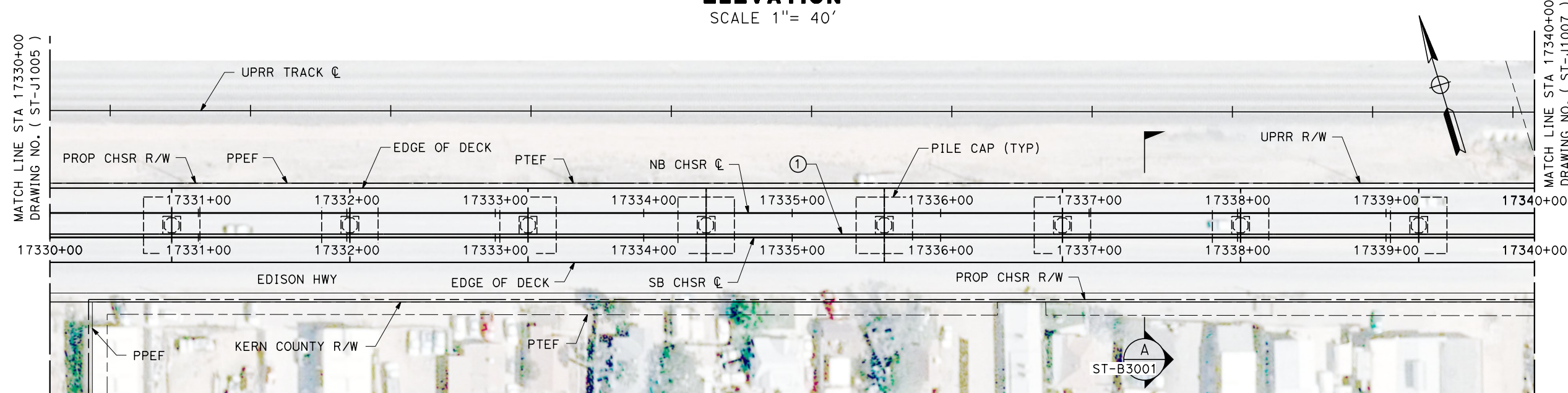
TOP OF RAIL "SB CHSR C"

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-J1006.dgn

10/30/2017 11:11:33 AM

TYLIN\YWang

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

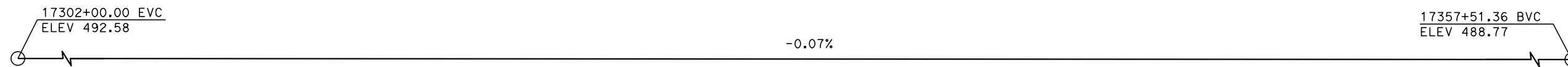
**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

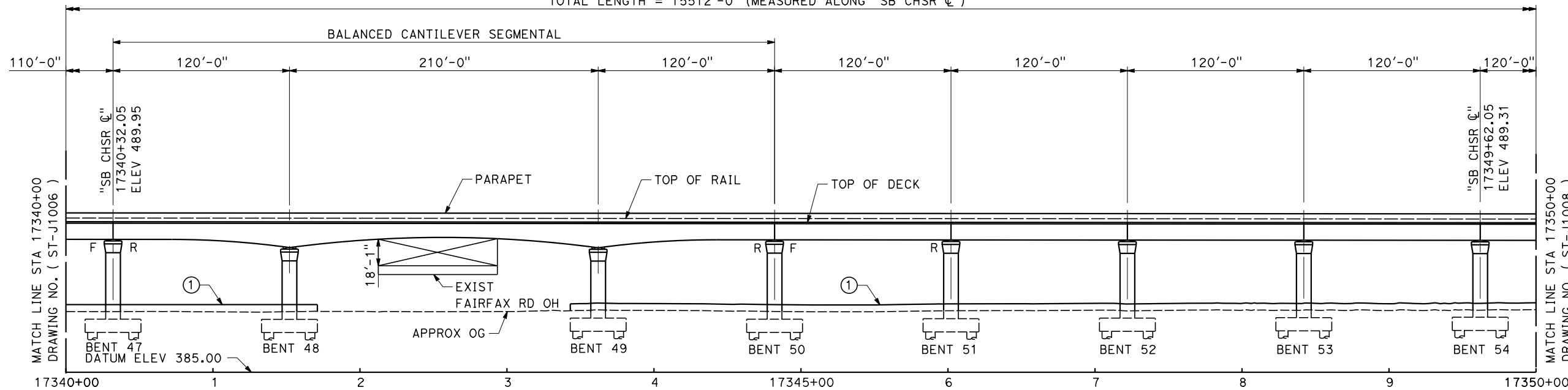
CONTRACT NO.
HSR 13-44
DRAWING NO.
ST-J1006
SCALE
AS SHOWN
SHEET NO.



TOP OF RAIL "SB CHSR C"

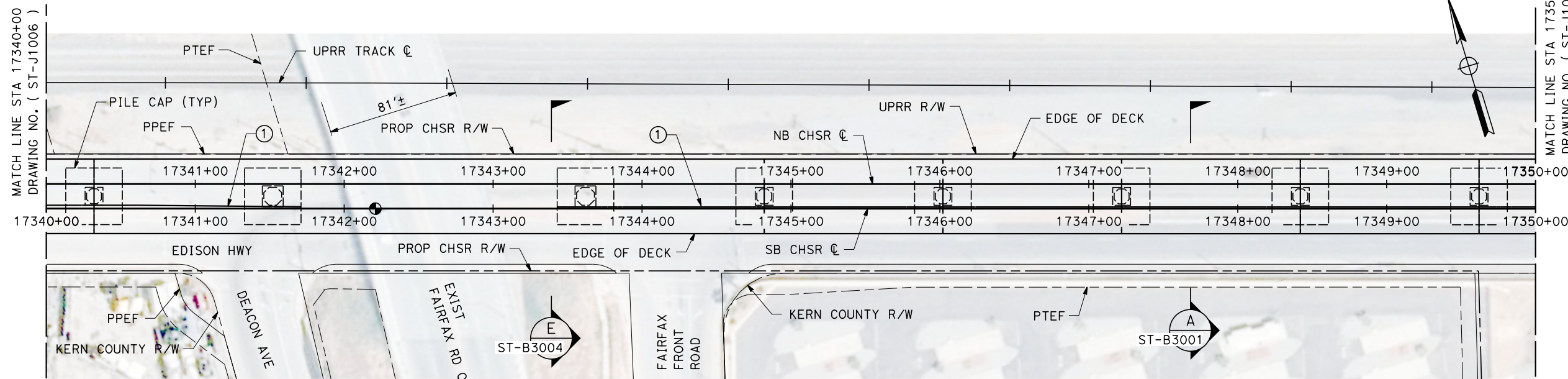
NO SCALE

TOTAL LENGTH = 15512'-0" (MEASURED ALONG "SB CHSR C")



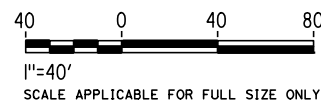
ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1007.dgn

10/30/2017 11:10:26 AM

TYLIN\Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

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CONSTRUCTION**



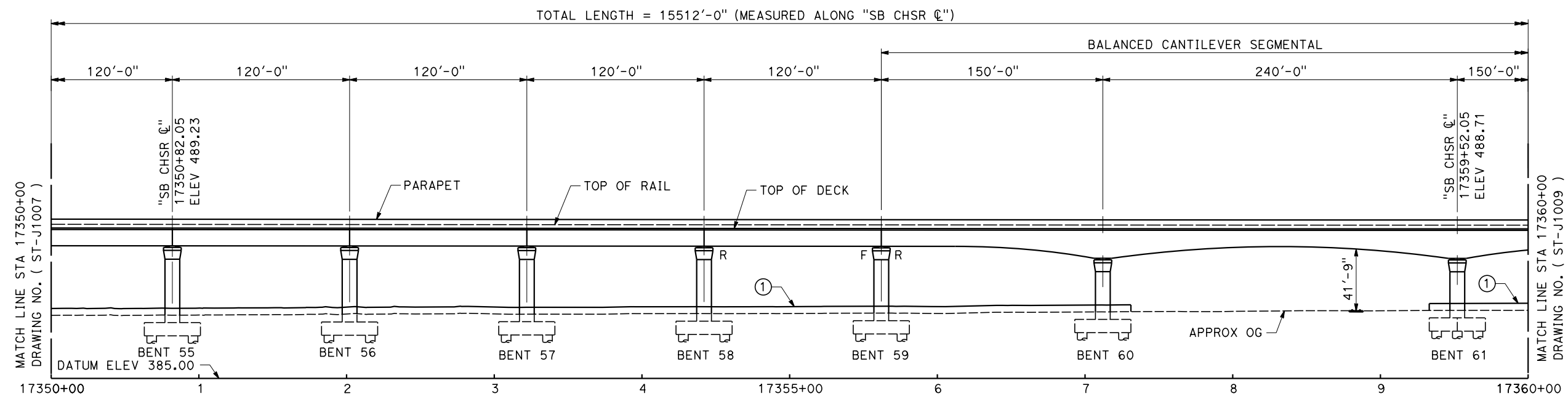
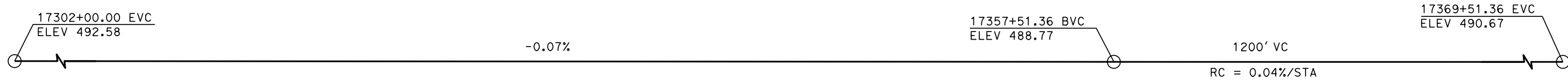
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44

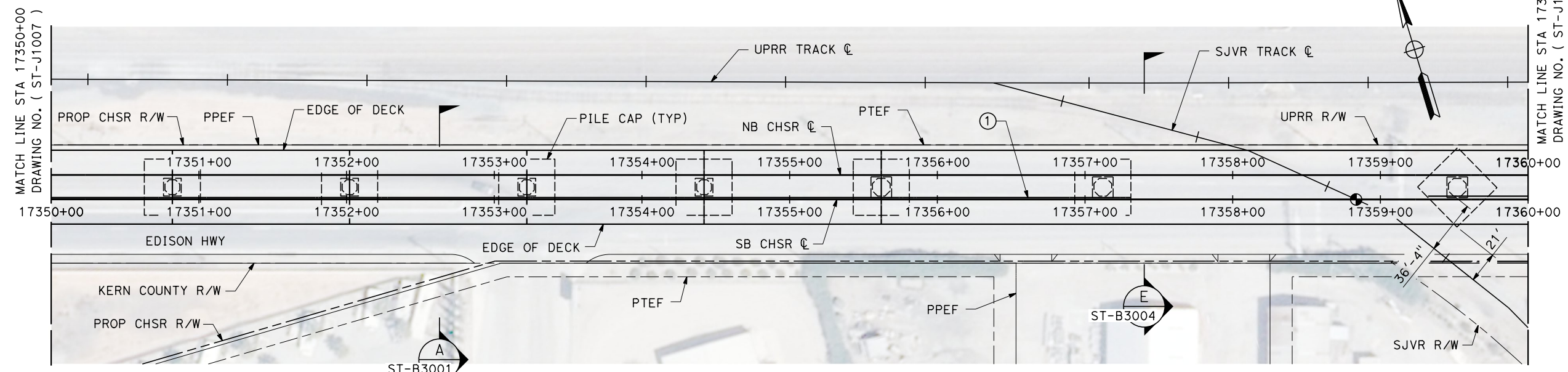
DRAWING NO.
ST-J1007

SCALE
AS SHOWN

SHEET NO.



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1008.dgn

11/22/2017 11:22:32 AM

10/30/2017

TYLIN\Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

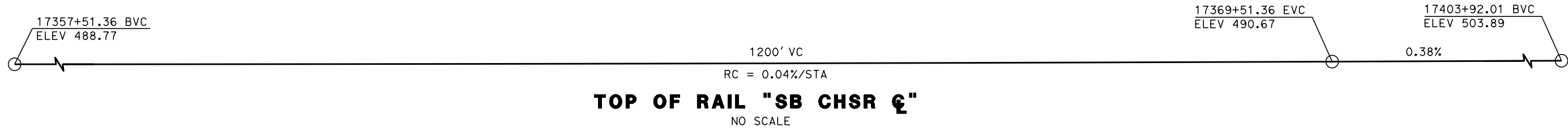
**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

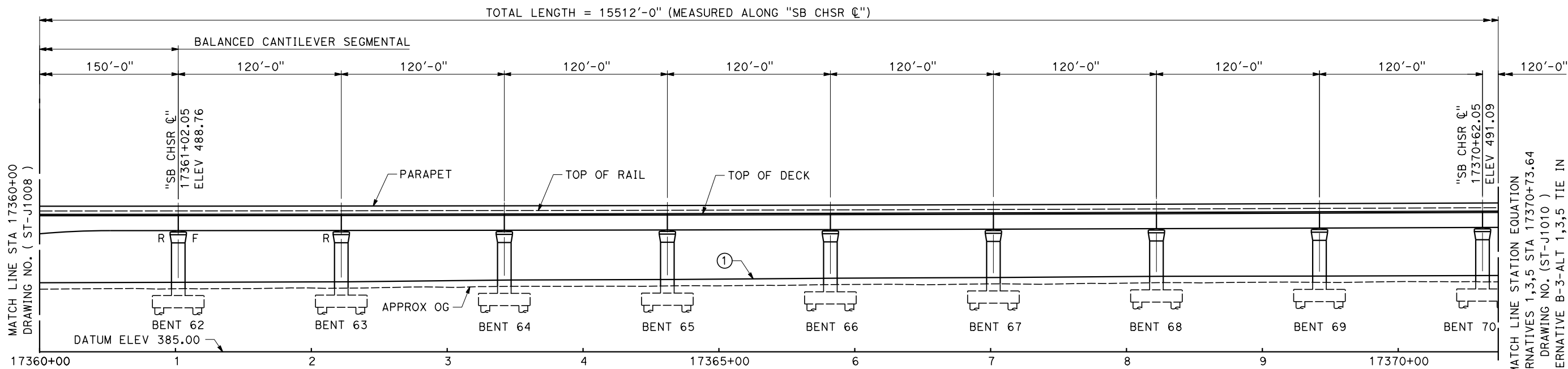


CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

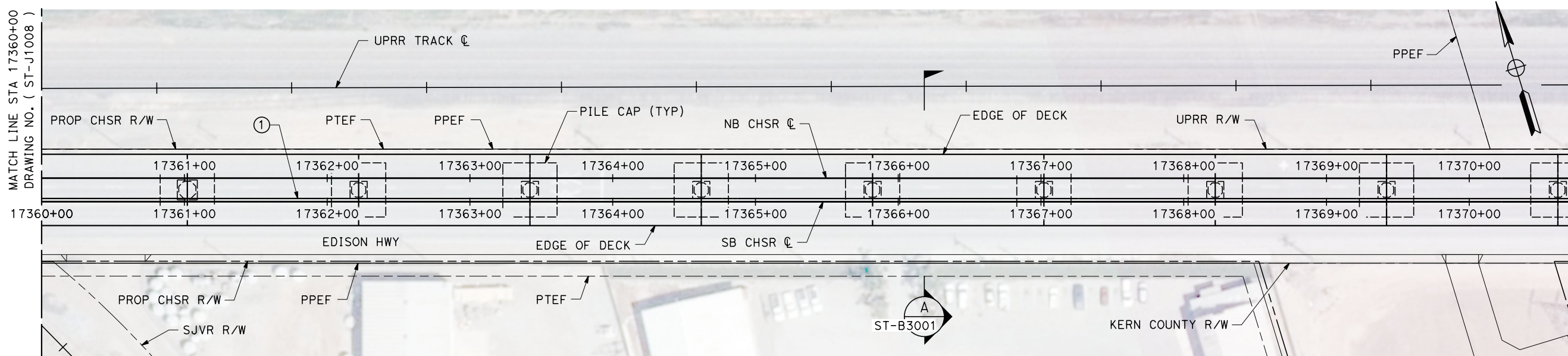
CONTRACT NO.
HSR 13-44
DRAWING NO.
ST-J1008
SCALE
AS SHOWN
SHEET NO.



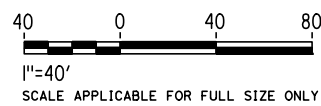
TOP OF RAIL "SB CHSR ☐"
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



MATCH LINE STA 17360+00
DRAWING NO. (ST-J1008)

"SB CHSR ☐"
17361+02.05
ELEV 488.76

DATUM ELEV 385.00

BENT 62
BENT 63
APPROX OG
BENT 64
BENT 65
BENT 66
BENT 67
BENT 68
BENT 69
BENT 70

MATCH LINE STA 17370+00
DRAWING NO. (ST-J1169)

MATCH LINE STATION EQUATION
ALTERNATIVES 1,3,5 STA 17370+73.64
DRAWING NO. (ST-J1010)
ALTERNATIVE B-3-ALT 1,3,5 TIE IN
STA 17370+41.55

MATCH LINE STA 17360+00
DRAWING NO. (ST-J1008)

UPRR TRACK ☐

PROP CHSR R/W

PTEF

PPEF

PILE CAP (TYP)

NB CHSR ☐

EDGE OF DECK

UPRR R/W

MATCH LINE STATION EQUATION
ALTERNATIVES 1,3,5 STA 17370+73.64
DRAWING NO. (ST-J1010)
ALTERNATIVE B-3-ALT 1,3,5 TIE IN
STA 17370+41.55

Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1009.dgn

10/30/2017 11:11:44 AM

TYLIN\Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON

DRAWN BY
YIHONG WANG

CHECKED BY
R. GOLCHOBIAN

IN CHARGE
STEVE SMITH

DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

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CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44

DRAWING NO.
ST-J1009

SCALE
AS SHOWN

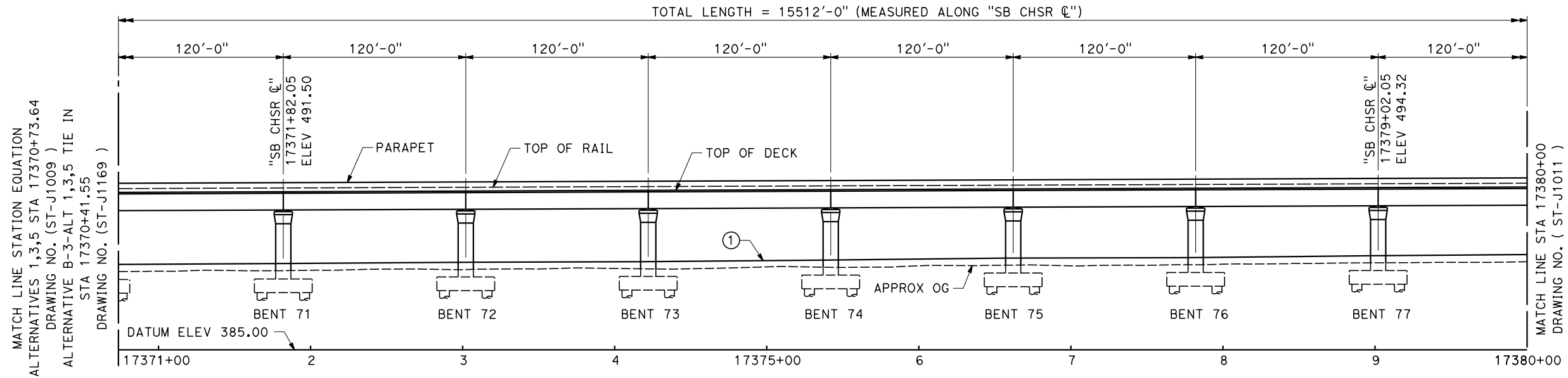
SHEET NO.

17369+51.36 EVC
ELEV 490.67

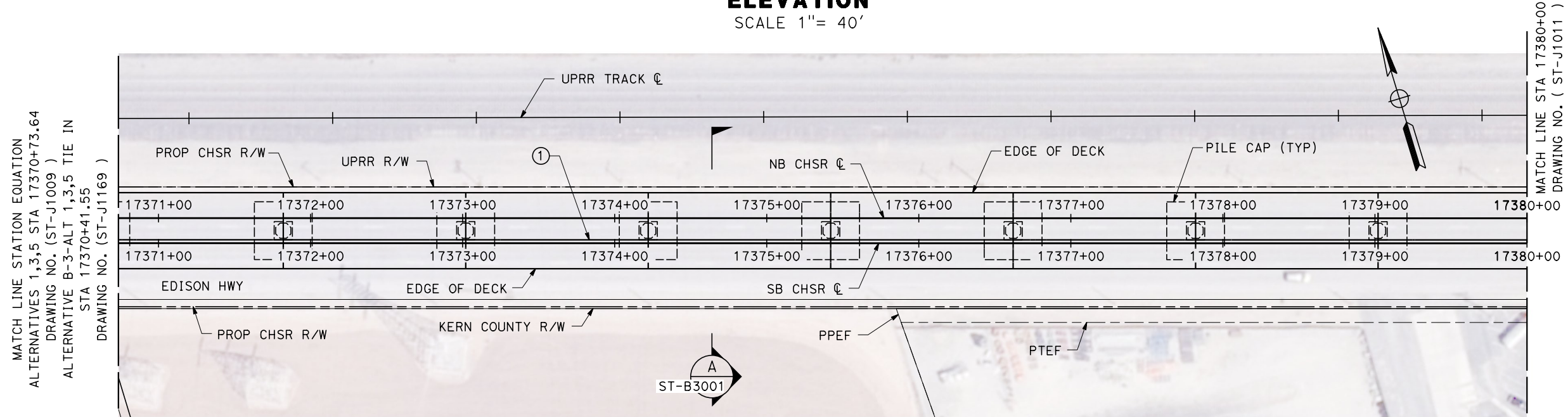
17403+92.01 BVC
ELEV 503.89

0.38%

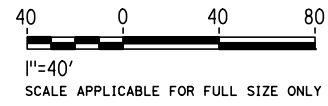
TOP OF RAIL "SB CHSR ☐"
NO SCALE



ELEVATION
SCALE 1"= 40'



PLAN
SCALE 1"= 40'



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1010.dgn 10/30/2017 11:11:51 AM TYLIN\Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON

DRAWN BY
YIHONG WANG

CHECKED BY
R. GOLCHOBIAN

IN CHARGE
STEVE SMITH

DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

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CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

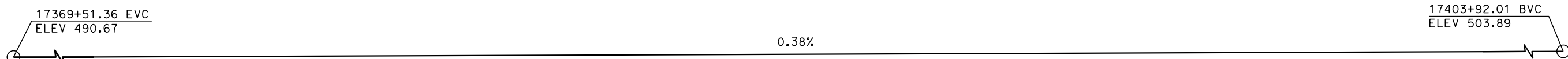
CONTRACT NO.
HSR 13-44

DRAWING NO.
ST-J1010

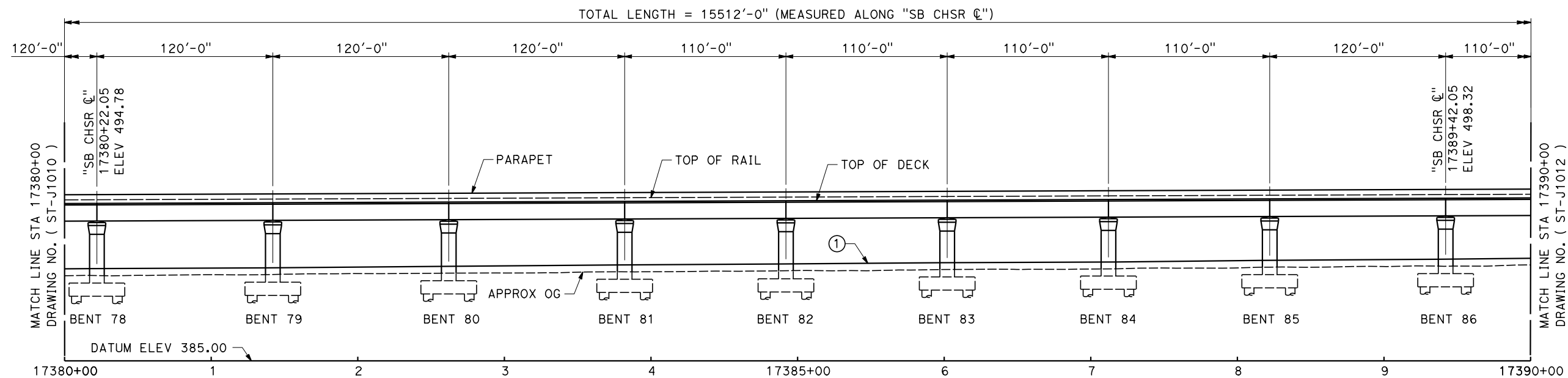
SCALE
AS SHOWN

SHEET NO.

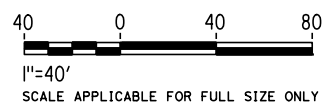
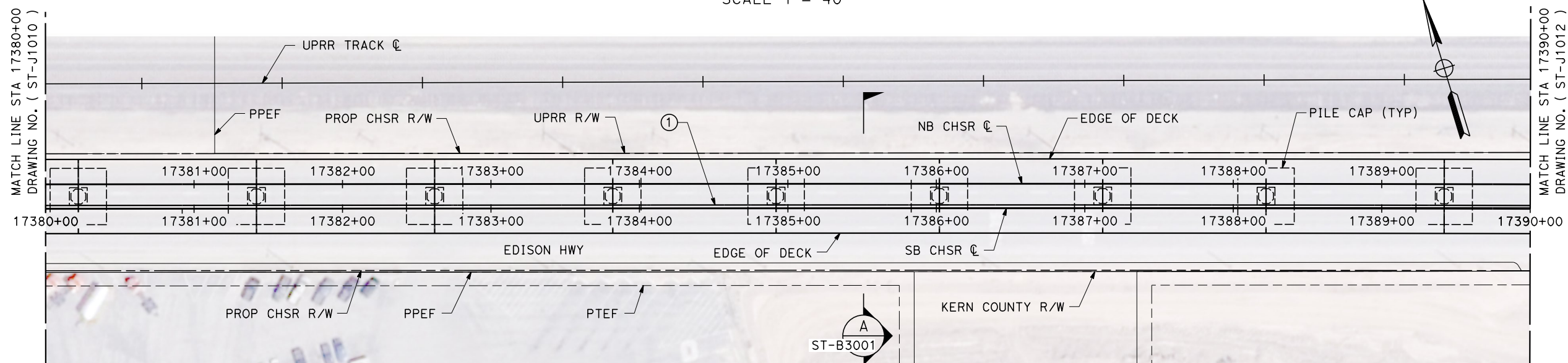
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11:21:16 AM
10/30/2017
TYLIN\YWang



TOP OF RAIL "SB CHSR C"
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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PEPD
SUBMITTAL**

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CONSTRUCTION**



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

ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44

DRAWING NO.
ST-J1011

SCALE
AS SHOWN

SHEET NO.

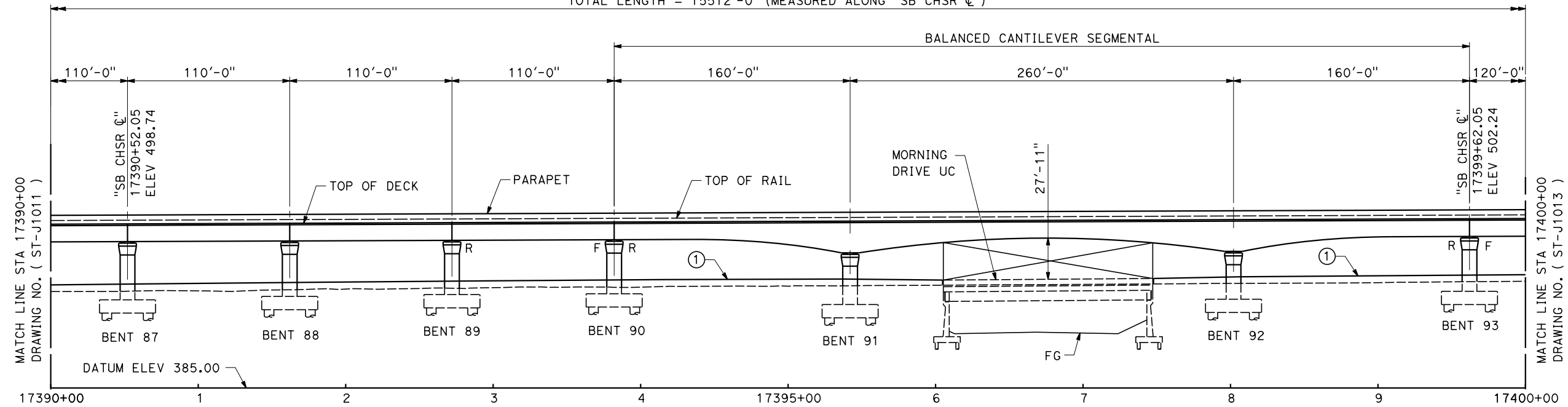
17369+51.36 EVC
ELEV 490.67

17403+92.01 BVC
ELEV 503.89

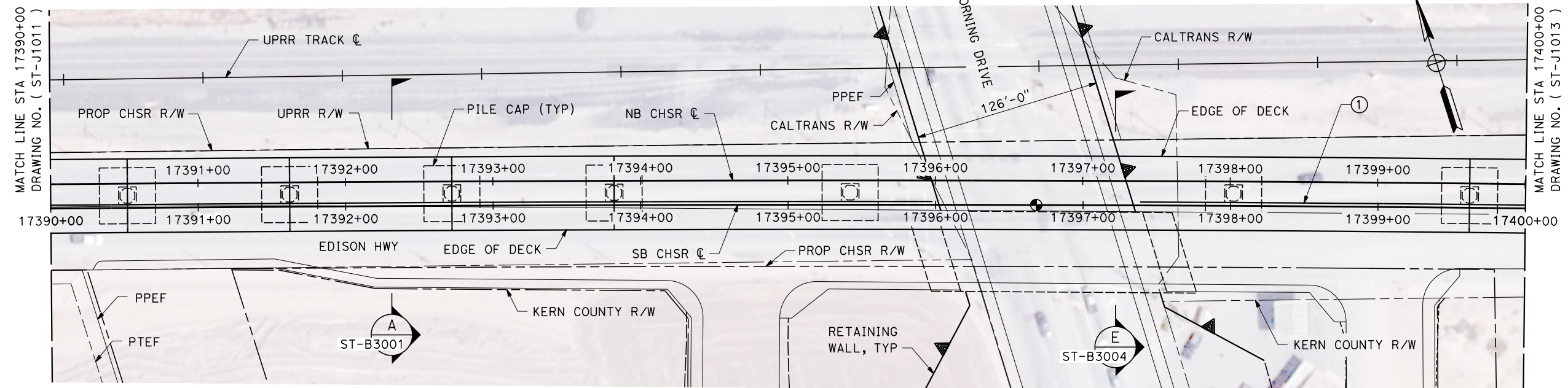
0.38%

TOP OF RAIL "SB CHSR C"
NO SCALE

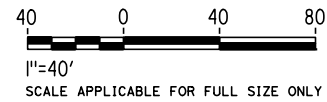
TOTAL LENGTH = 15512'-0" (MEASURED ALONG "SB CHSR C")



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1012.dgn

10/30/2017 11:11:37 AM

TYLIN\Wang

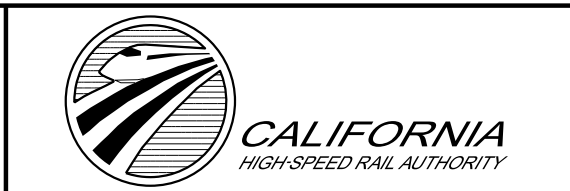
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

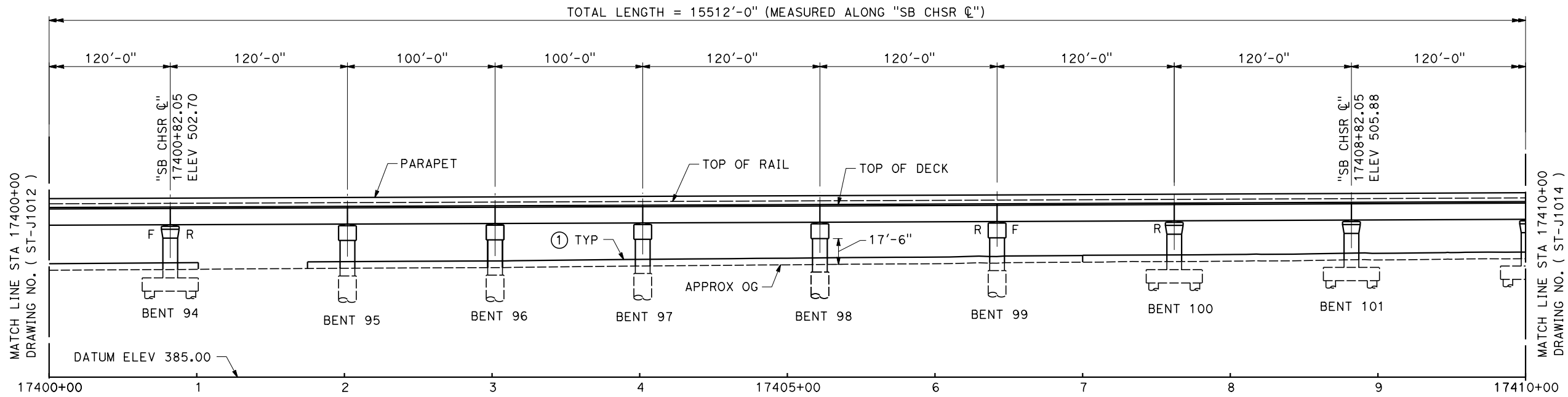
**NOT FOR
CONSTRUCTION**

TYLIN INTERNATIONAL

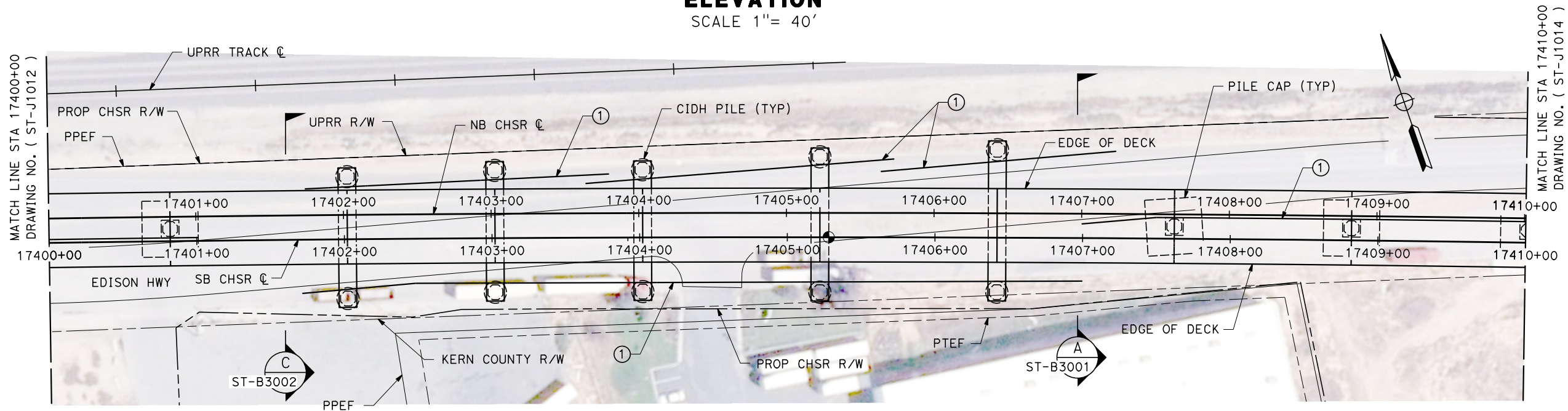


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

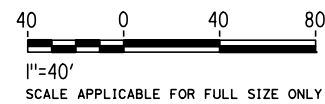
CONTRACT NO.
HSR 13-44
DRAWING NO.
ST-J1012
SCALE
AS SHOWN
SHEET NO.



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1013.dgn
11:11:19 AM
10/30/2017
TYLIN\YWang

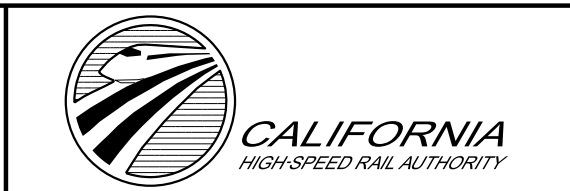
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

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CONSTRUCTION**

TYLIN INTERNATIONAL



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

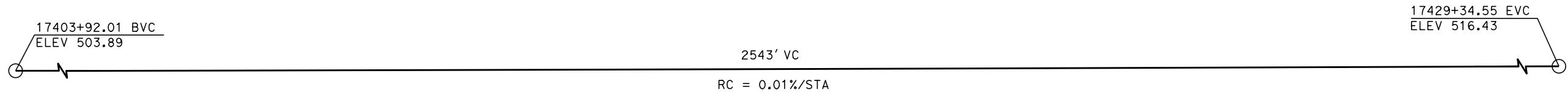
ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44

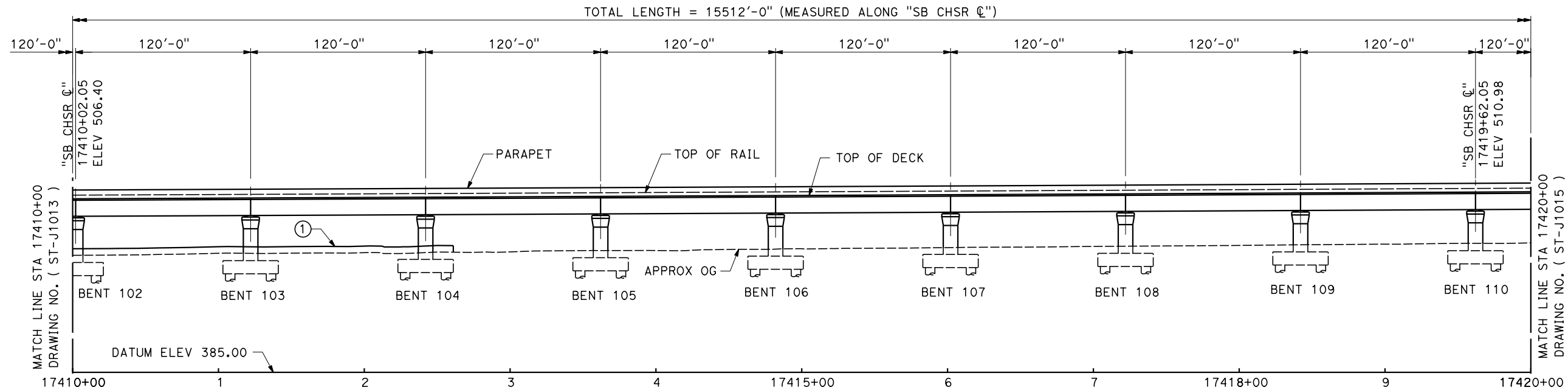
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ST-J1013

SCALE
AS SHOWN

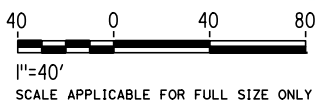
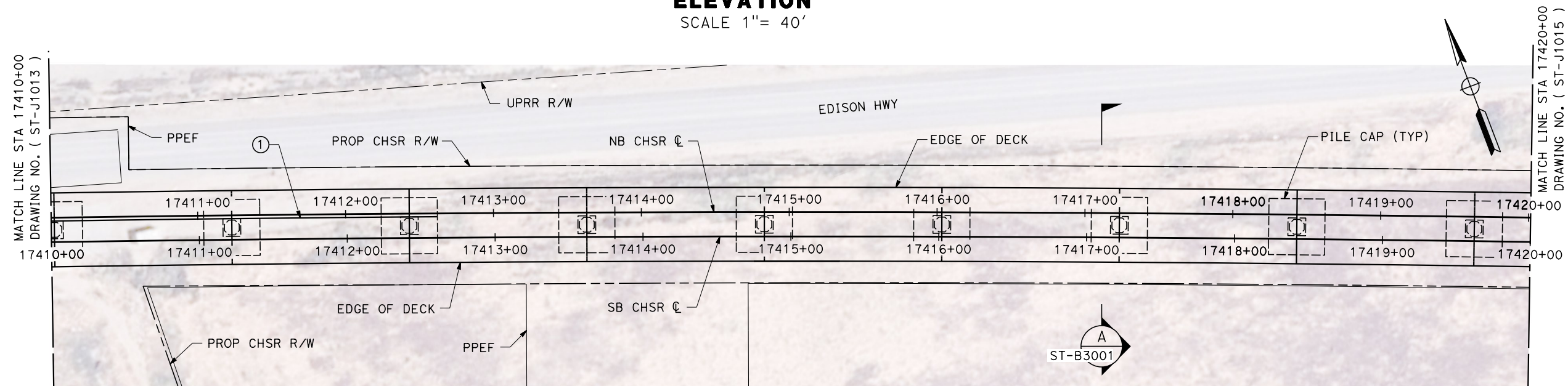
SHEET NO.



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-J1014.dgn
11:20:36 AM
10/30/2017
TYLIN\Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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CONSTRUCTION**



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

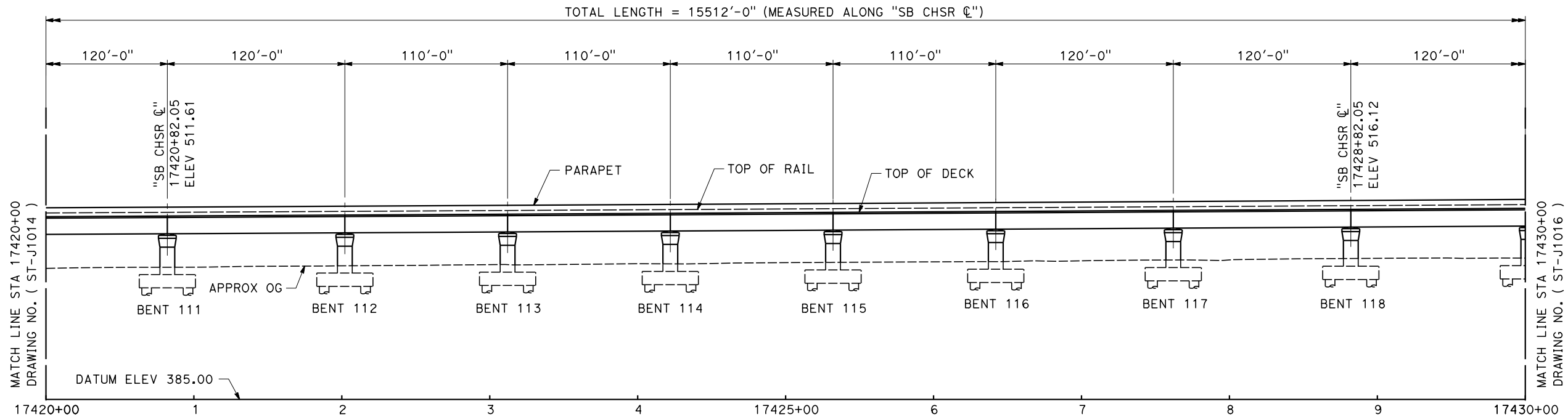
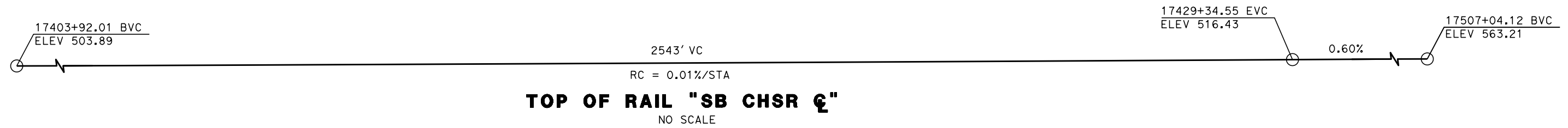
ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44

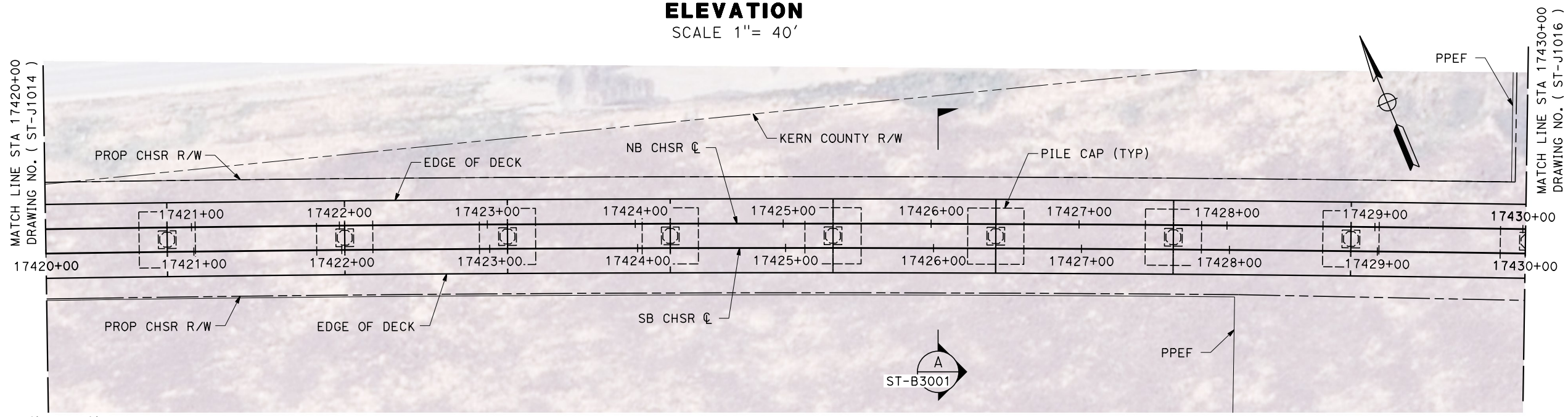
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ST-J1014

SCALE
AS SHOWN

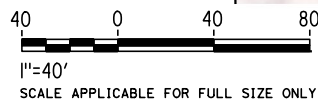
SHEET NO.



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1015.dgn

11:11:41 AM

10/30/2017

TYLIN\Y.Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON

DRAWN BY
YIHONG WANG

CHECKED BY
R. GOLCHOBIAN

IN CHARGE
STEVE SMITH

DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44

DRAWING NO.
ST-J1015

SCALE
AS SHOWN

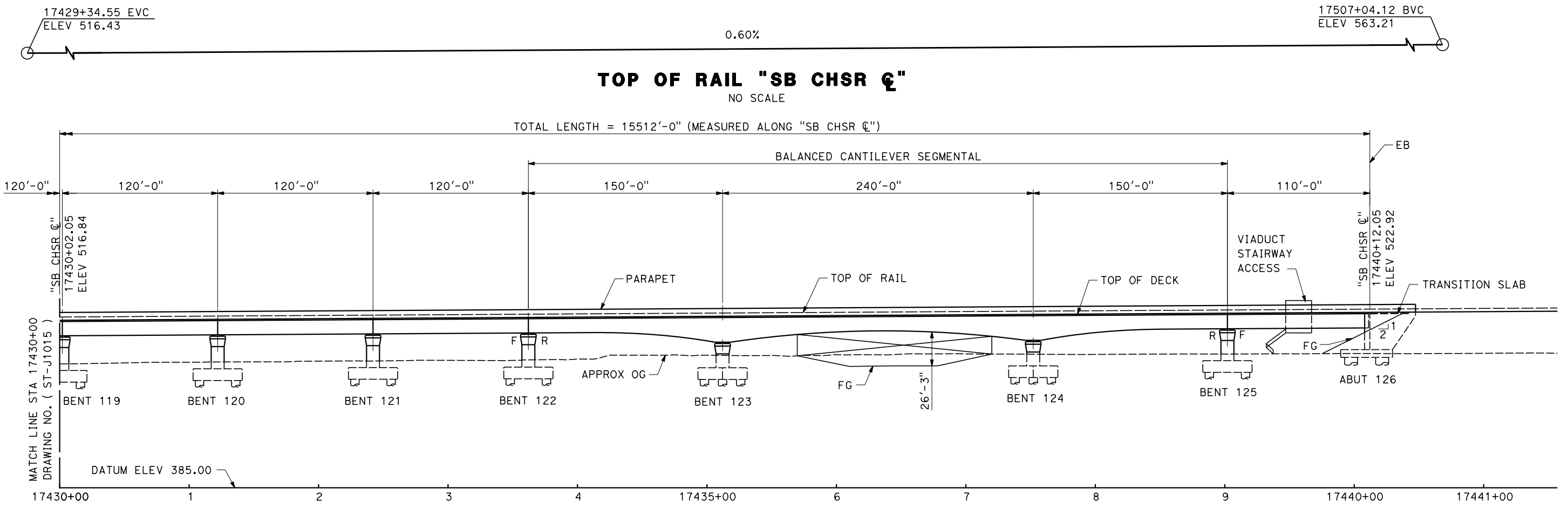
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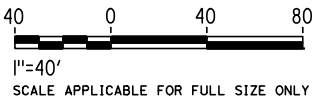
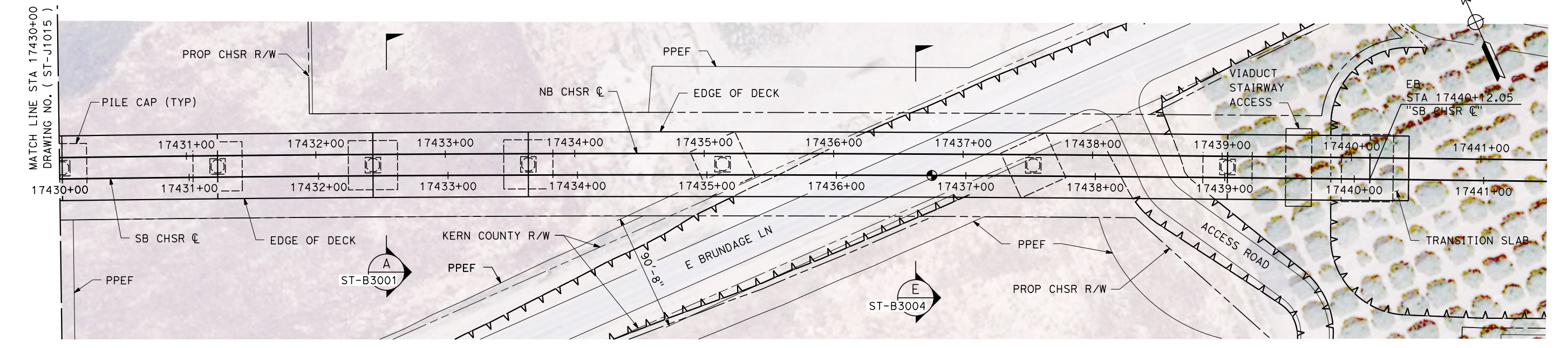
11:11:25 AM

10/30/2017

TYLIN\Wang



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON

DRAWN BY
YIHONG WANG

CHECKED BY
R. GOLCHOBIAN

IN CHARGE
STEVE SMITH

DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17285+00 TO 17440+12.05
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44

DRAWING NO.
ST-J1016

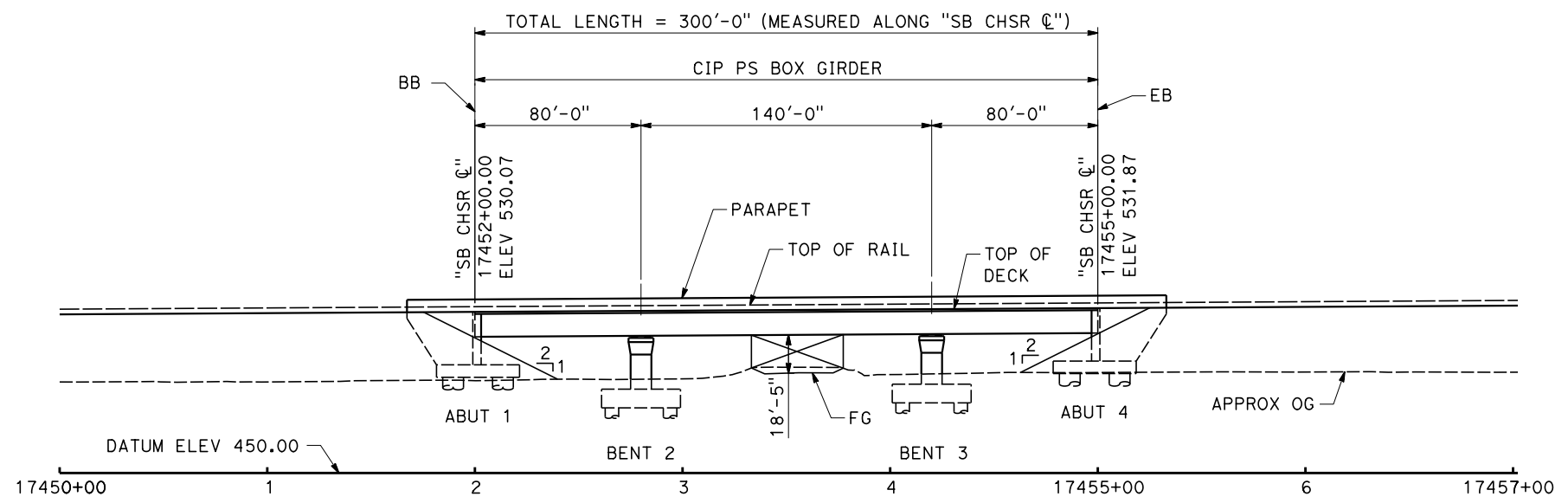
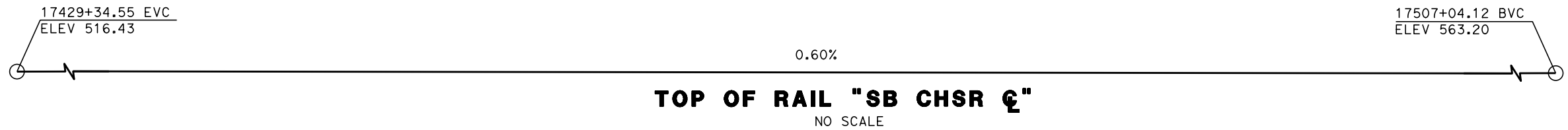
SCALE
AS SHOWN

SHEET NO.

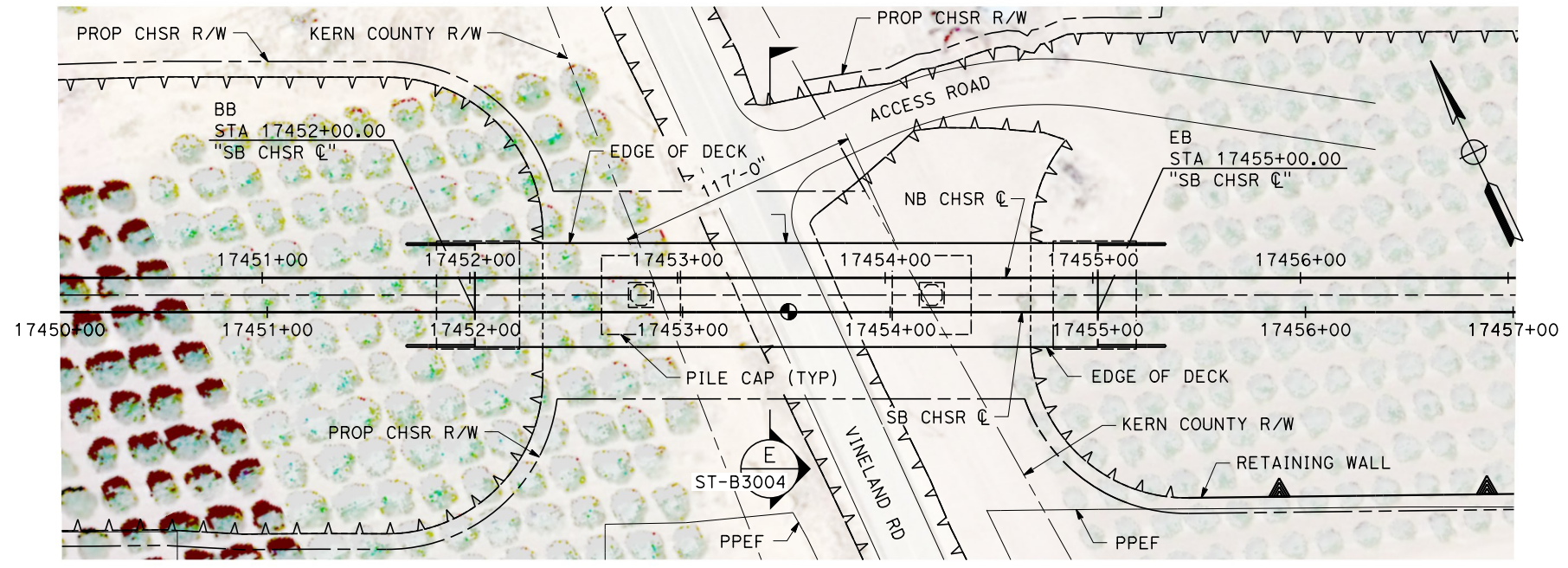
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10/30/2017 11:20:53 AM

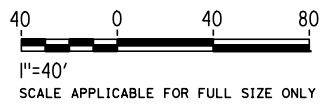
TYLIN\Wang



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

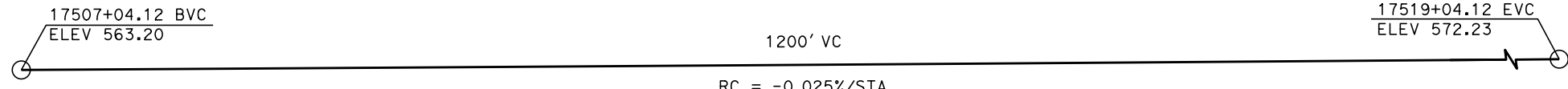
**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

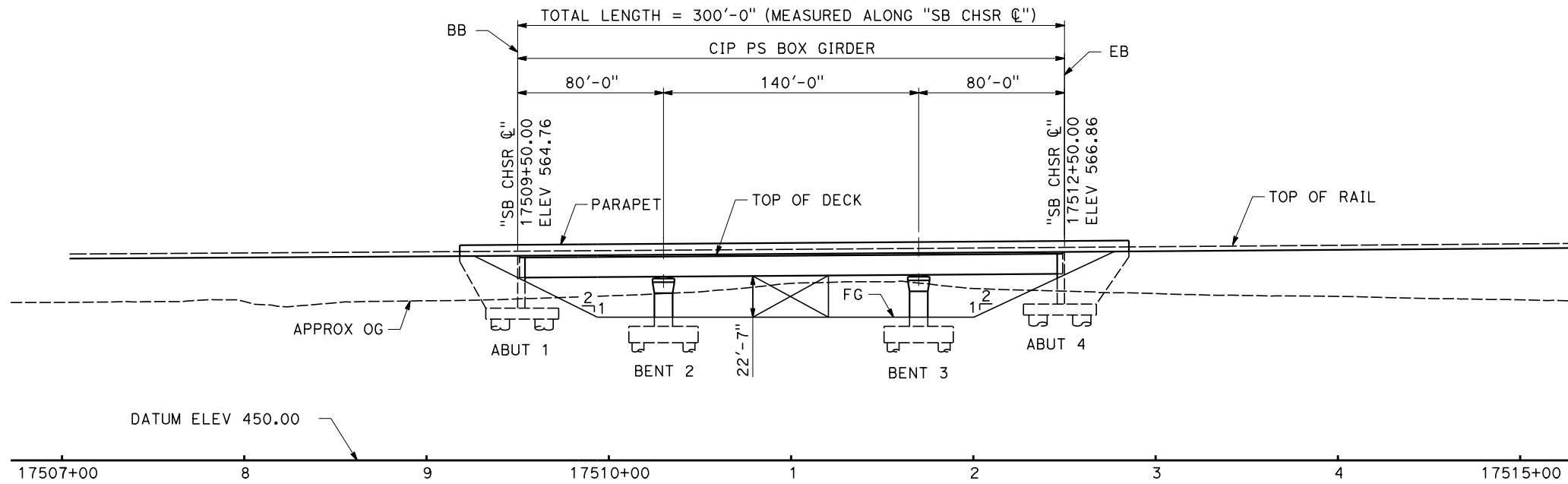


CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,3,5
TRACK STRUCTURES
VINELAND ROAD UNDERPASS
PLAN AND ELEVATION

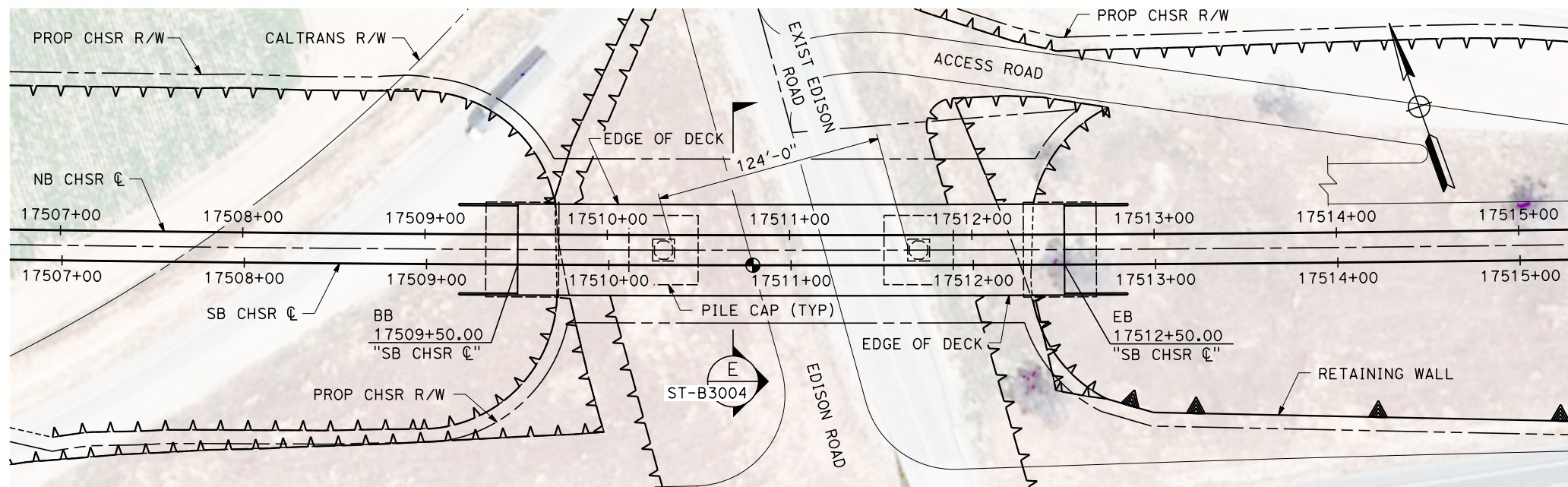
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HSR 13-44
DRAWING NO.
ST-J1017
SCALE
AS SHOWN
SHEET NO.



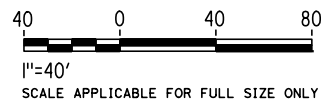
TOP OF RAIL "SB CHSR ☐"
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1018.dgn 11:21:09 AM 10/30/2017 TYLIN\Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



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

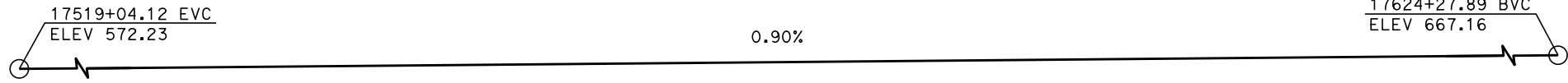
ALTERNATIVES 1,3,5
TRACK STRUCTURES
EDISON ROAD UNDERPASS
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44

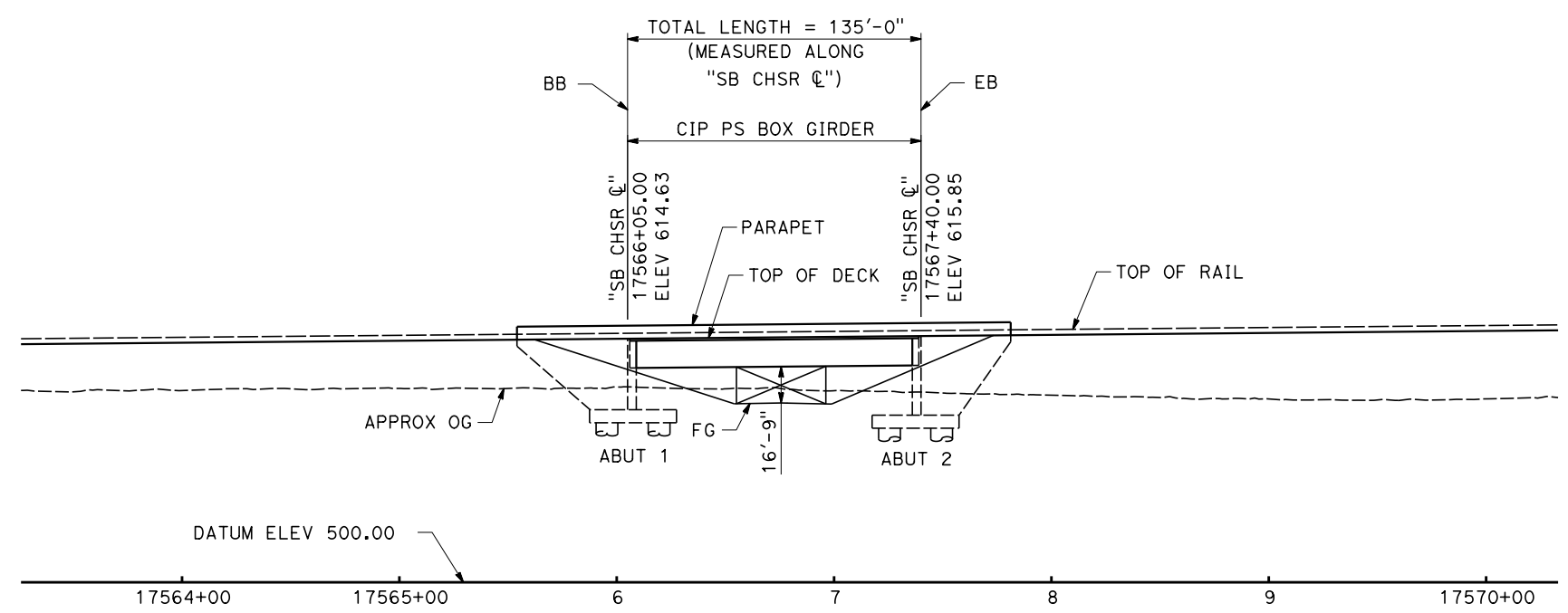
DRAWING NO.
ST-J1018

SCALE
AS SHOWN

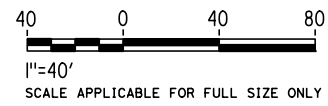
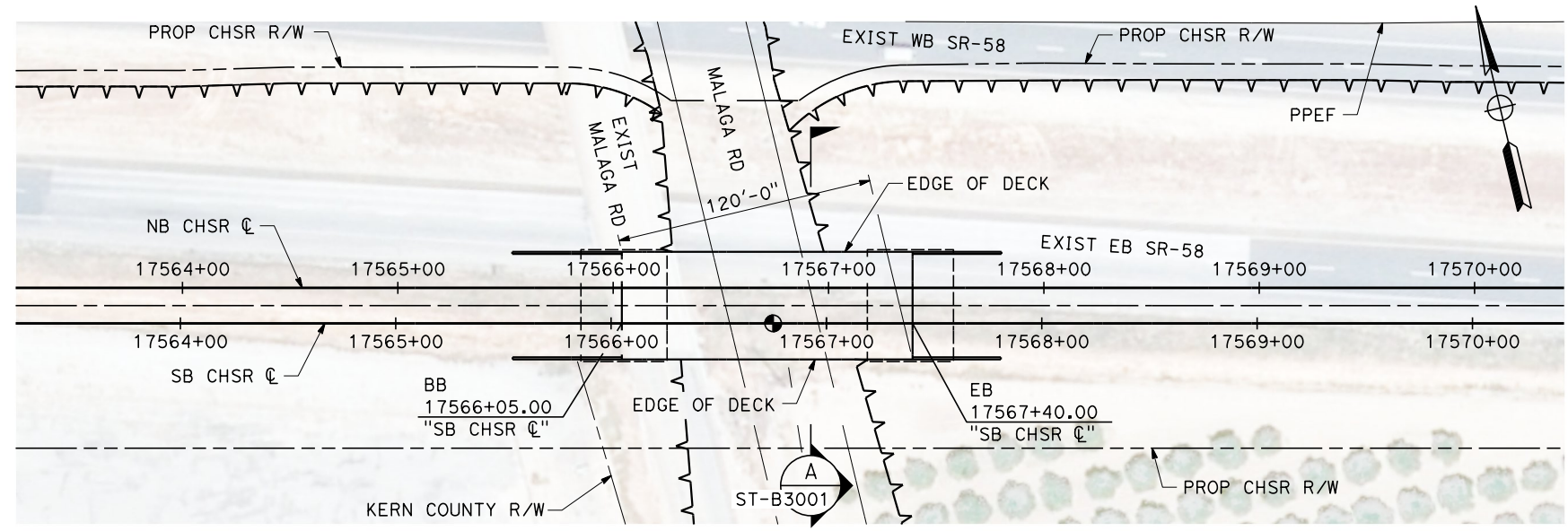
SHEET NO.



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-J1019.dgn
11:21:55 AM
10/30/2017
TYLIN\Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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CONSTRUCTION**



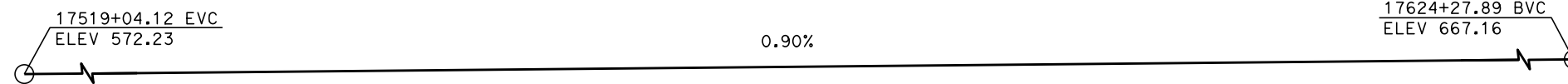
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,3,5
TRACK STRUCTURES
MALAGA ROAD UNDERPASS
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44
DRAWING NO.
ST-J1019
SCALE
AS SHOWN
SHEET NO.

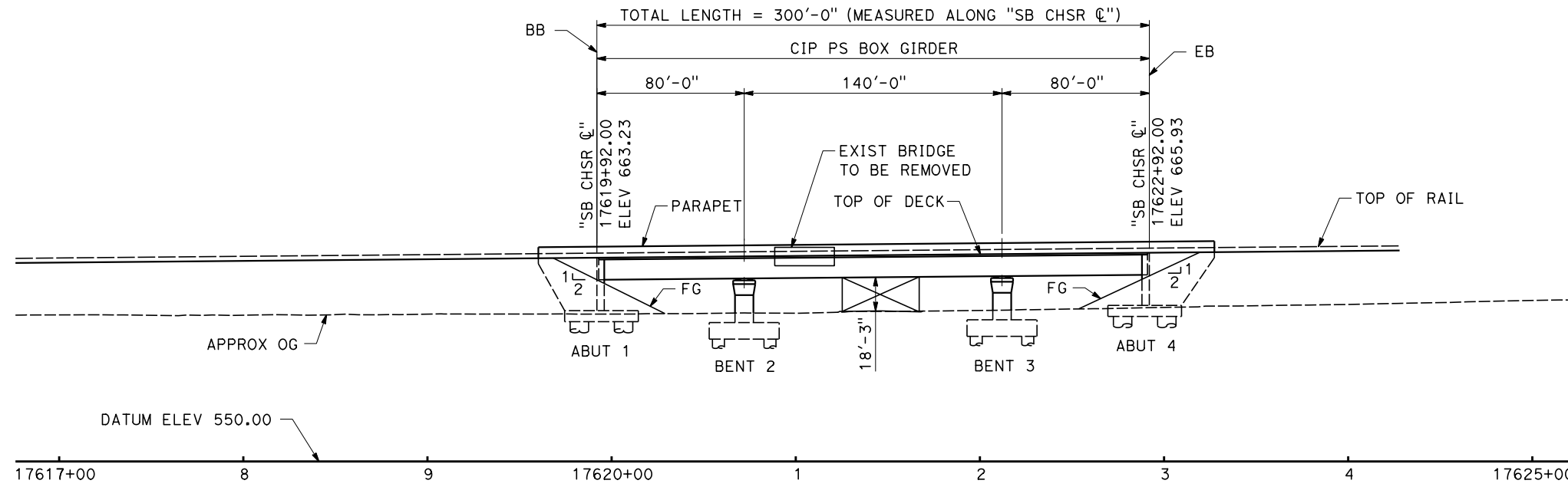
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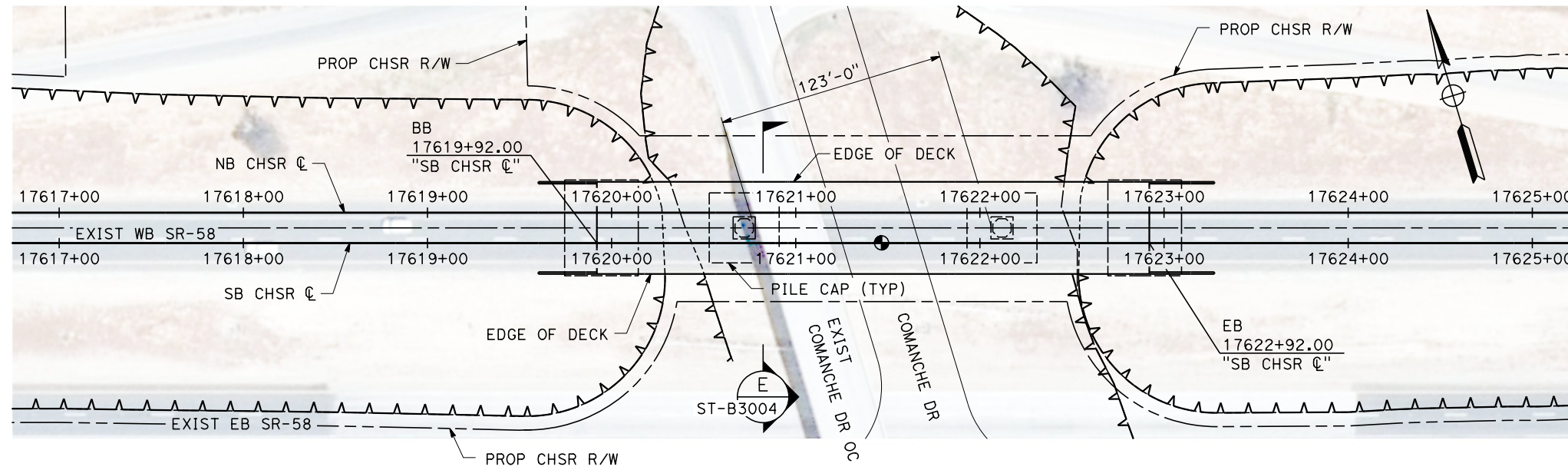
TYLIN\YWang



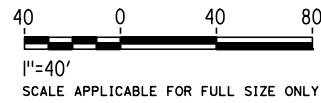
TOP OF RAIL "SB CHSR ☐"
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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

ALTERNATIVES 1,3,5
TRACK STRUCTURES
COMANCHE DRIVE UNDERPASS
PLAN AND ELEVATION

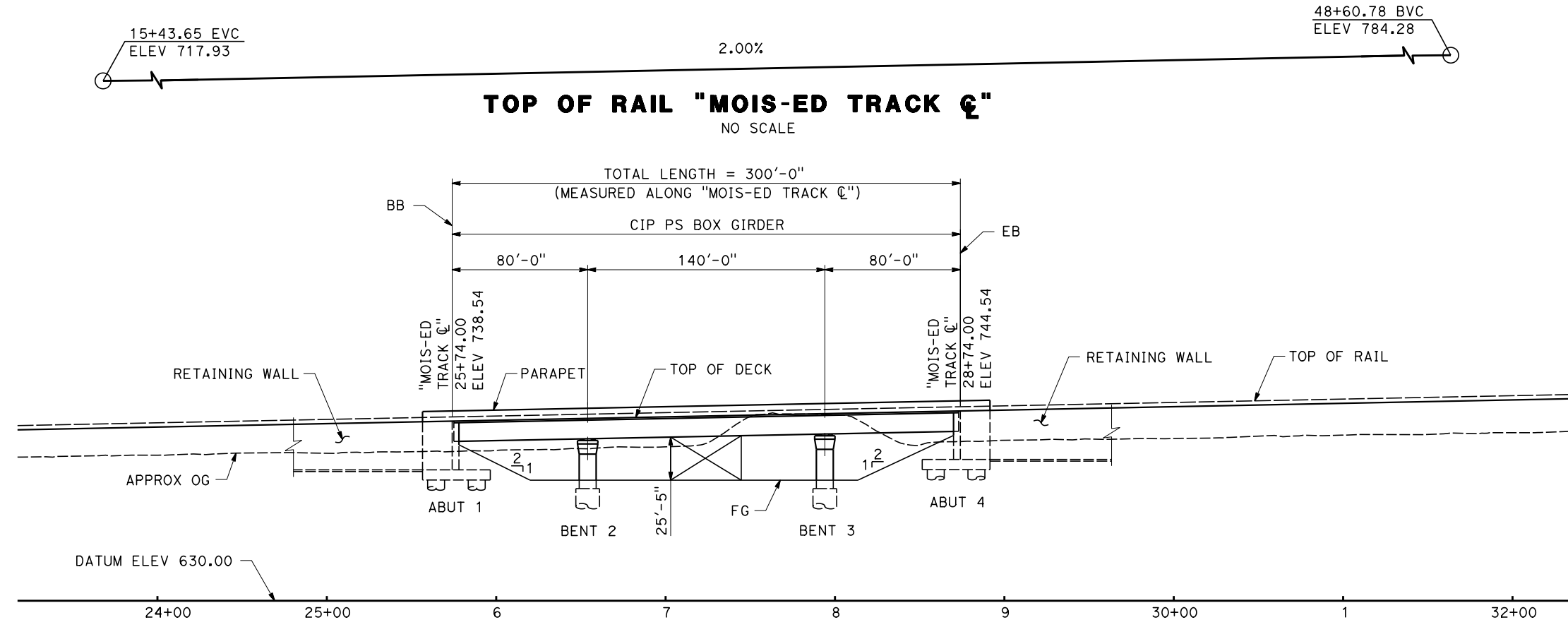
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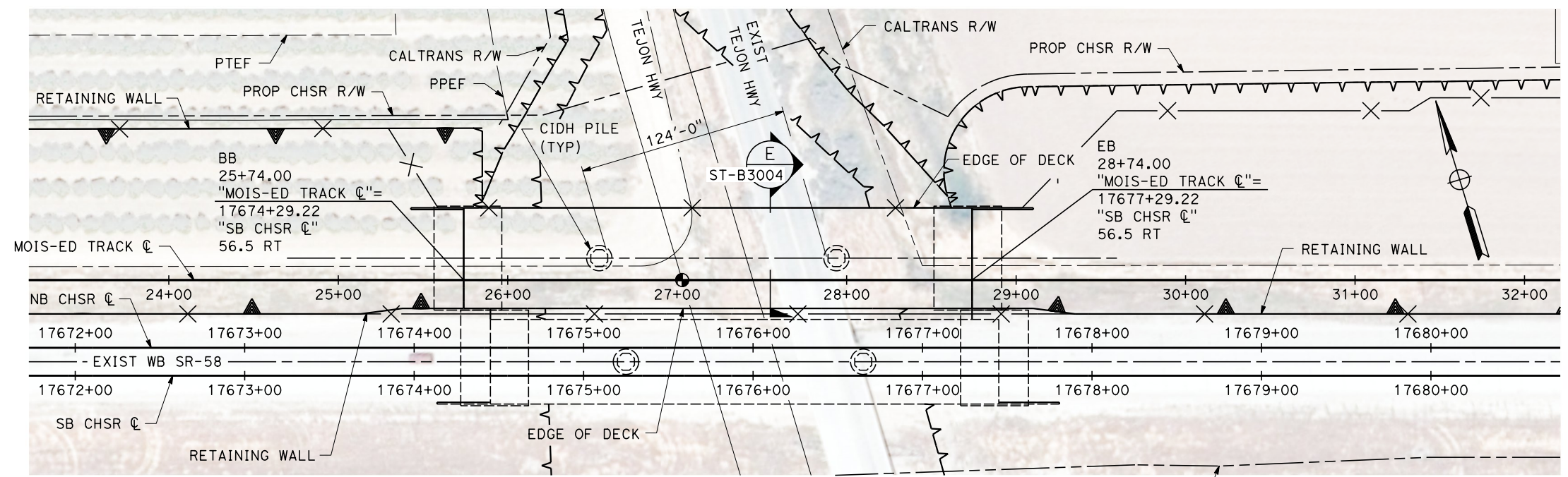
SCALE
AS SHOWN

SHEET NO.

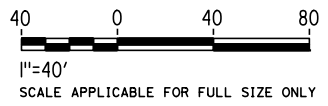
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11:23:15 AM
10/30/2017
TYLIN\Wang



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



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IN CHARGE
STEVE SMITH
DATE
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,3,5
TRACK STRUCTURES
TEJON HIGHWAY NORTH UNDERPASS
PLAN AND ELEVATION

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

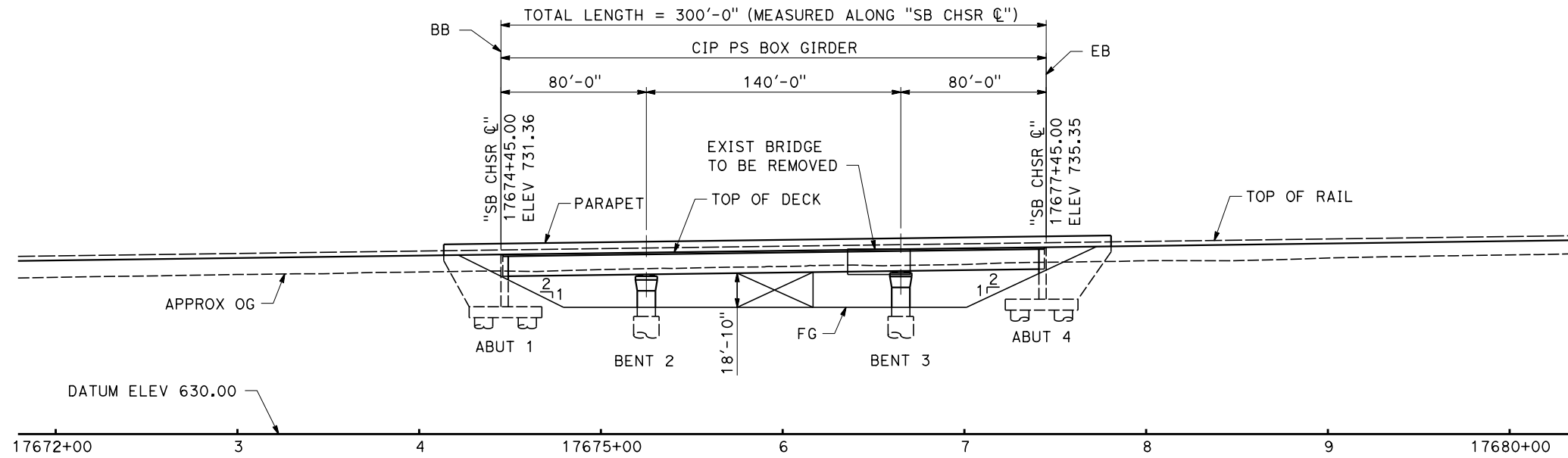
17636+27.89 EVC
ELEV 680.56

17726+09.36 BVC
ELEV 800.09

1.33%

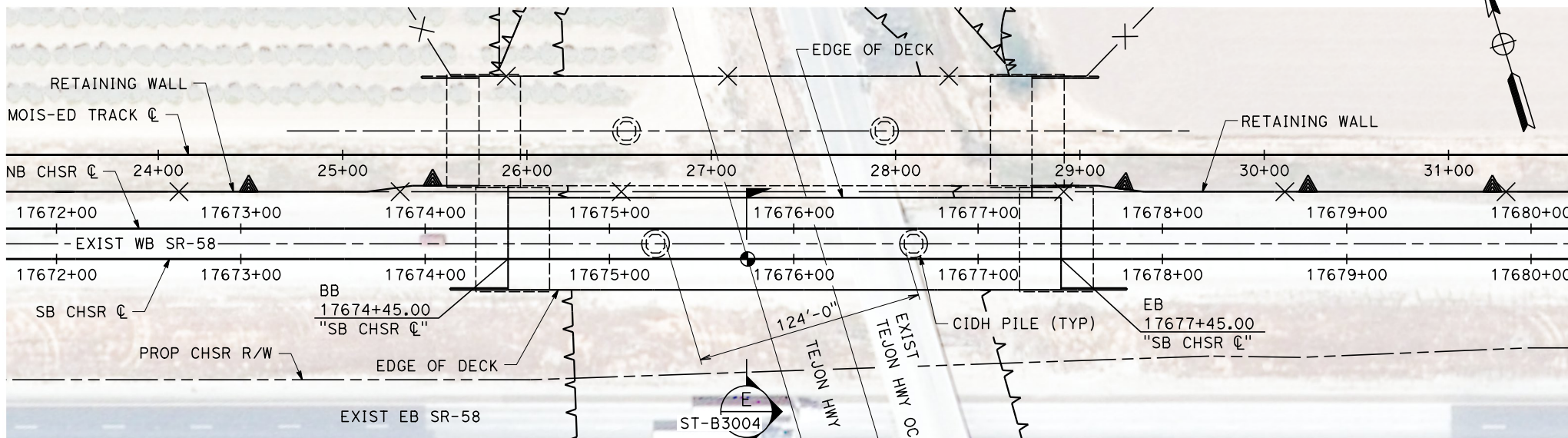
TOP OF RAIL "SB CHSR ☉"

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-J1022.dgn

10/30/2017 11:26:55 AM

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R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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PEPD
SUBMITTAL**

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CONSTRUCTION**

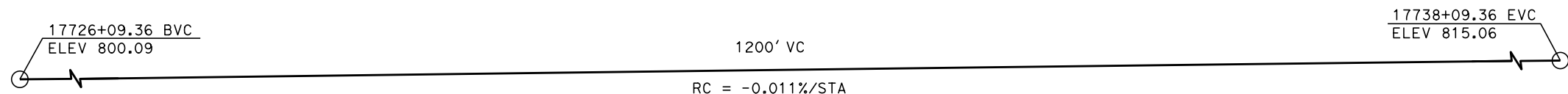
TYLIN INTERNATIONAL



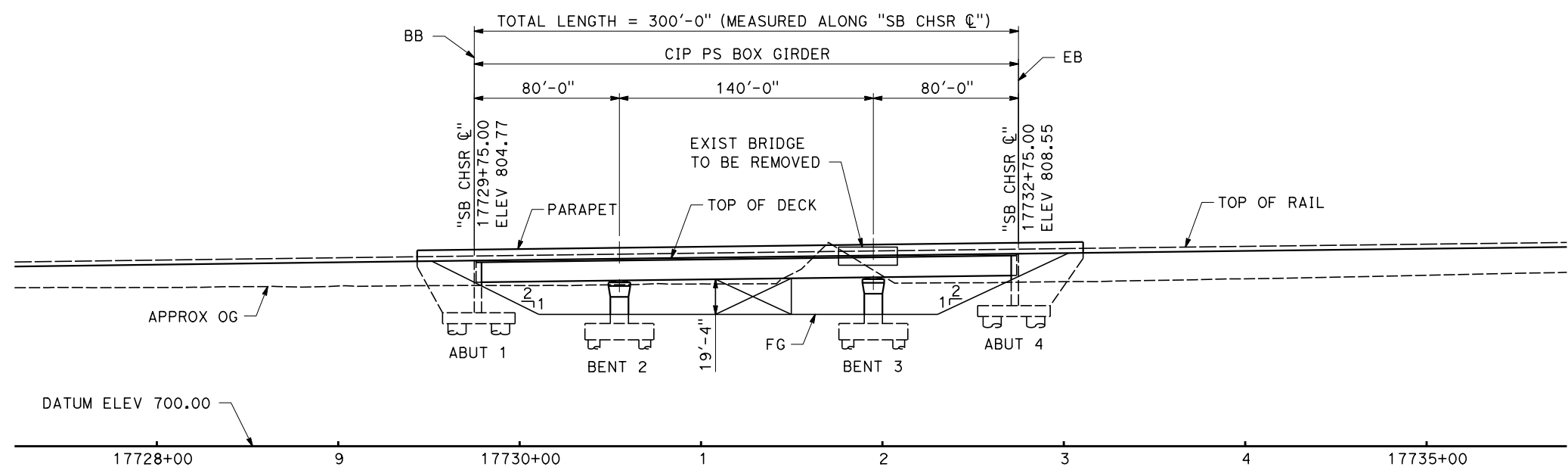
**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVES 1,3,5
TRACK STRUCTURES
TEJON HIGHWAY SOUTH UNDERPASS
PLAN AND ELEVATION

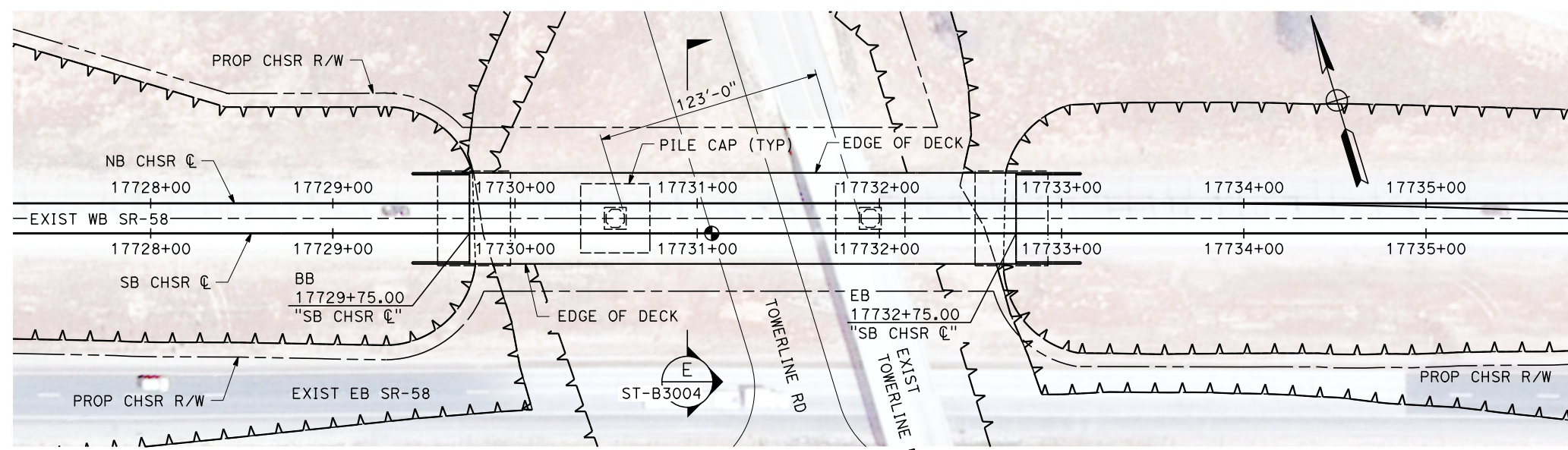
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DRAWING NO.
ST-J1022
SCALE
AS SHOWN
SHEET NO.



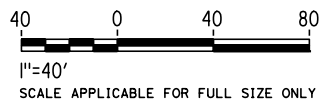
TOP OF RAIL "SB CHSR C"
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1023.dgn 10/30/2017 11:17:23 AM TYLIN\Wang

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IN CHARGE
STEVE SMITH
DATE
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

ALTERNATIVES 1,3,5
TRACK STRUCTURES
TOWERLINE ROAD UNDERPASS
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44

DRAWING NO.
ST-J1023

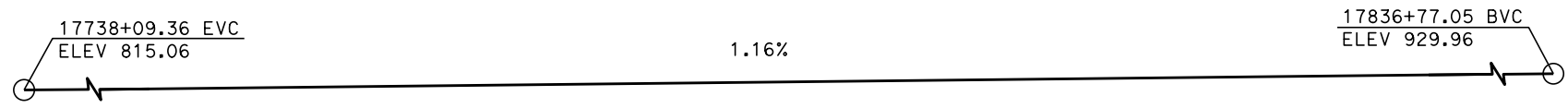
SCALE
AS SHOWN

SHEET NO.

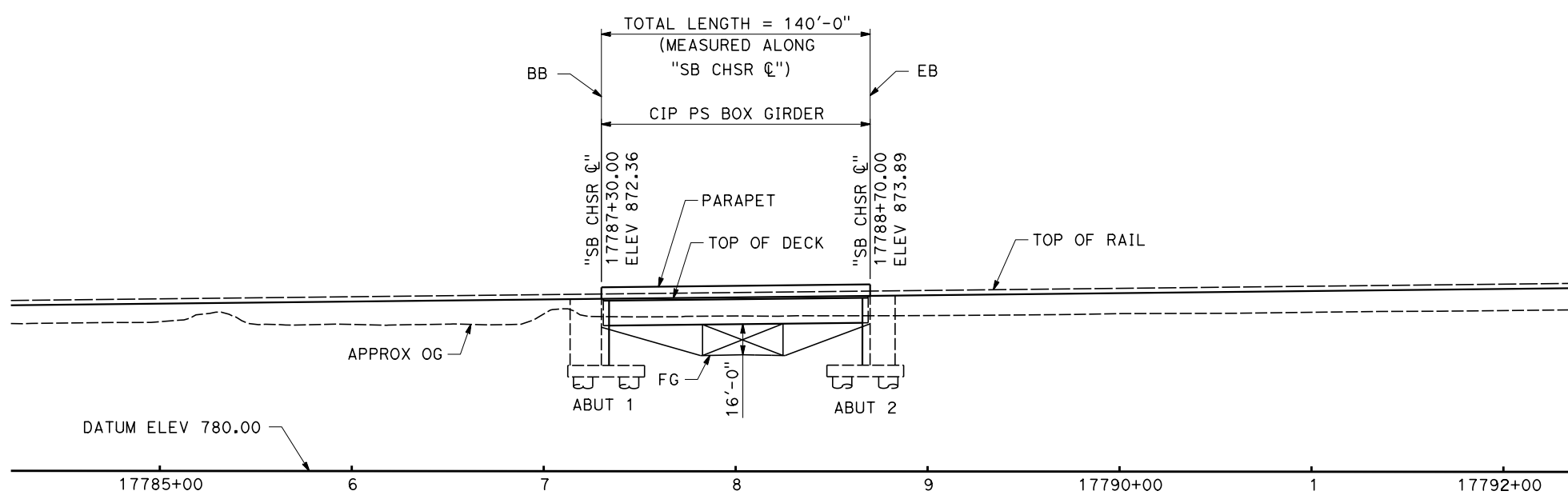
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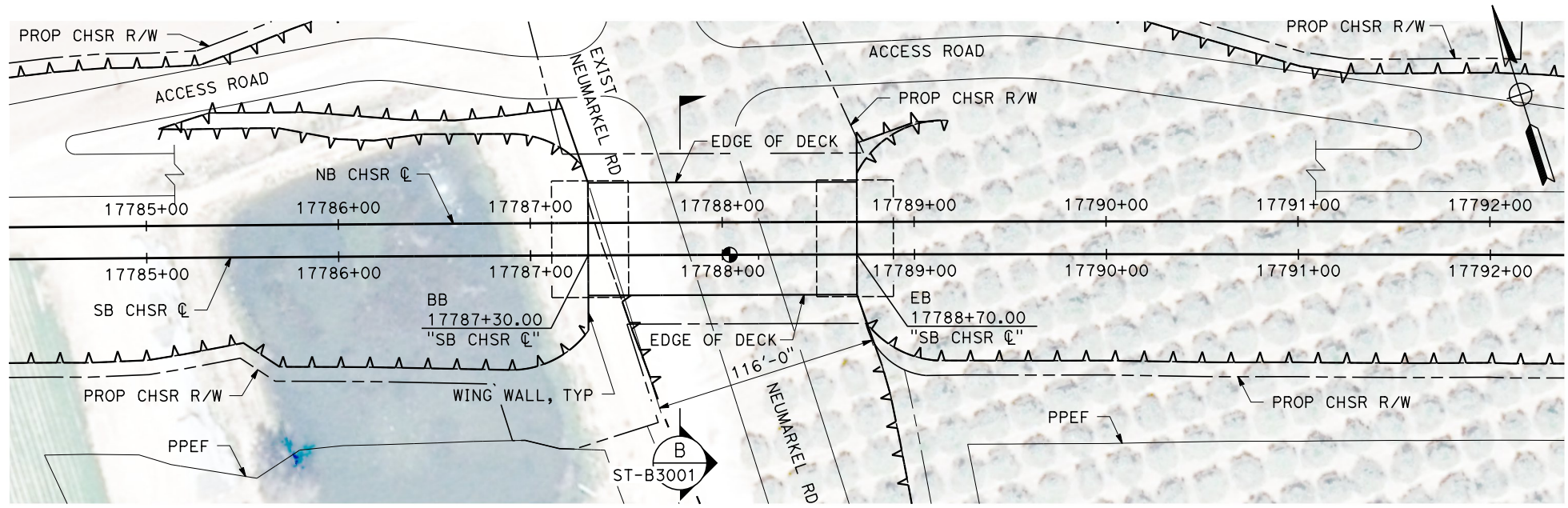
TYLIN\Y.Wang



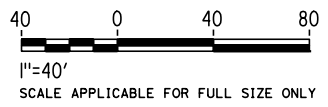
TOP OF RAIL "SB CHSR ☉"
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

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STEVE SMITH
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10/31/2017

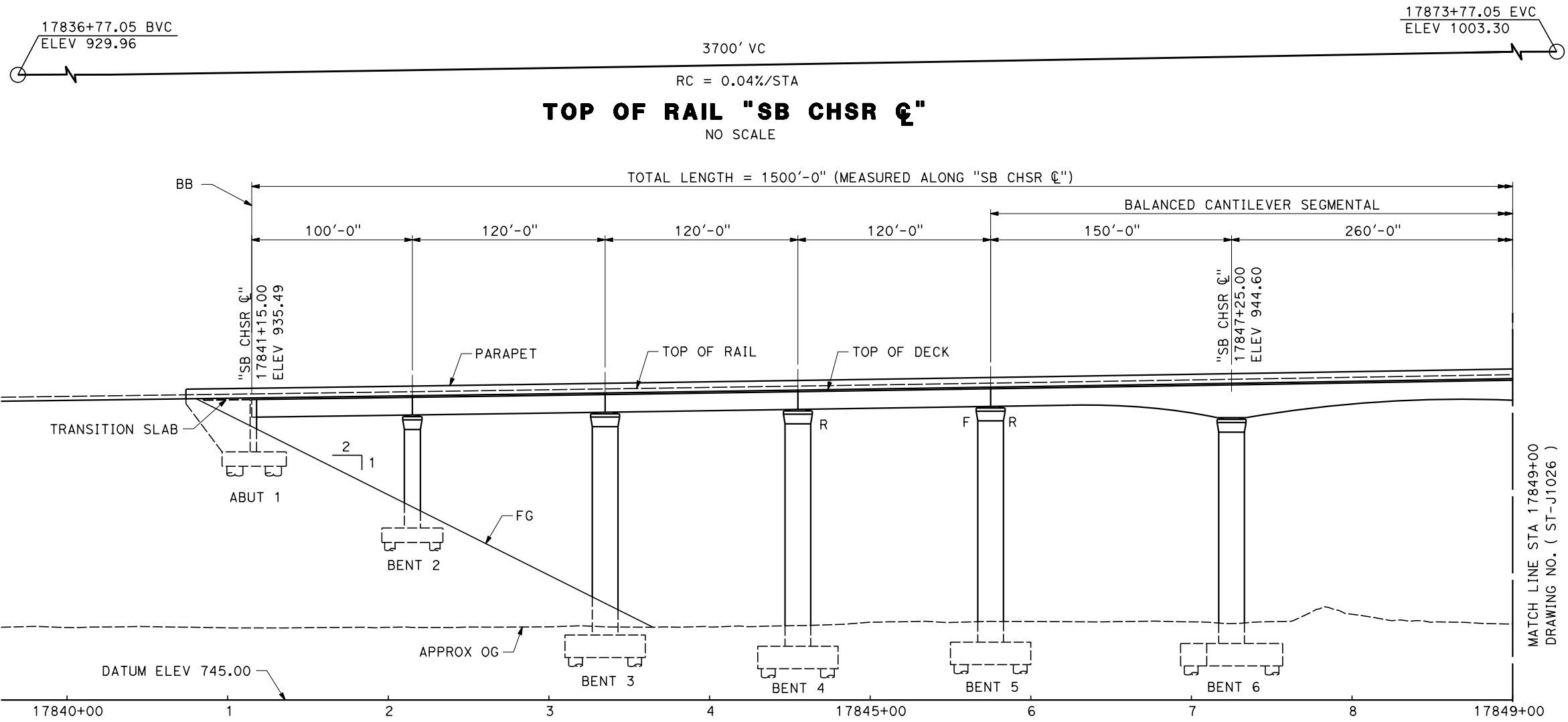
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SUBMITTAL**

**NOT FOR
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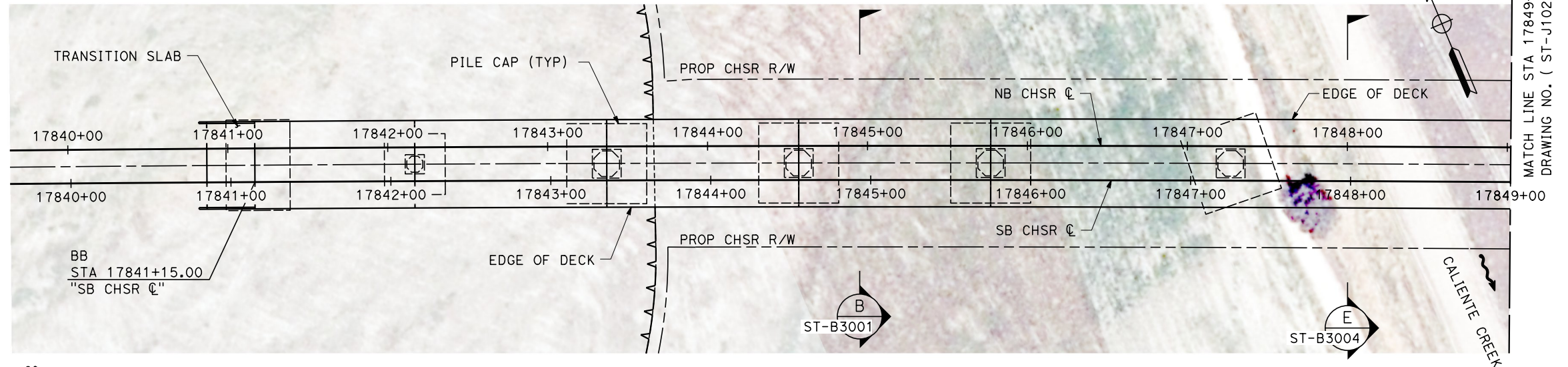


CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,3,5
TRACK STRUCTURES
NEUMARKEL ROAD UNDERPASS
PLAN AND ELEVATION

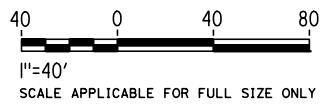
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HSR 13-44
DRAWING NO.
ST-J1024
SCALE
AS SHOWN
SHEET NO.



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



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11:21:05 AM
10/30/2017
TYLIN\Wang

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R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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CONSTRUCTION**

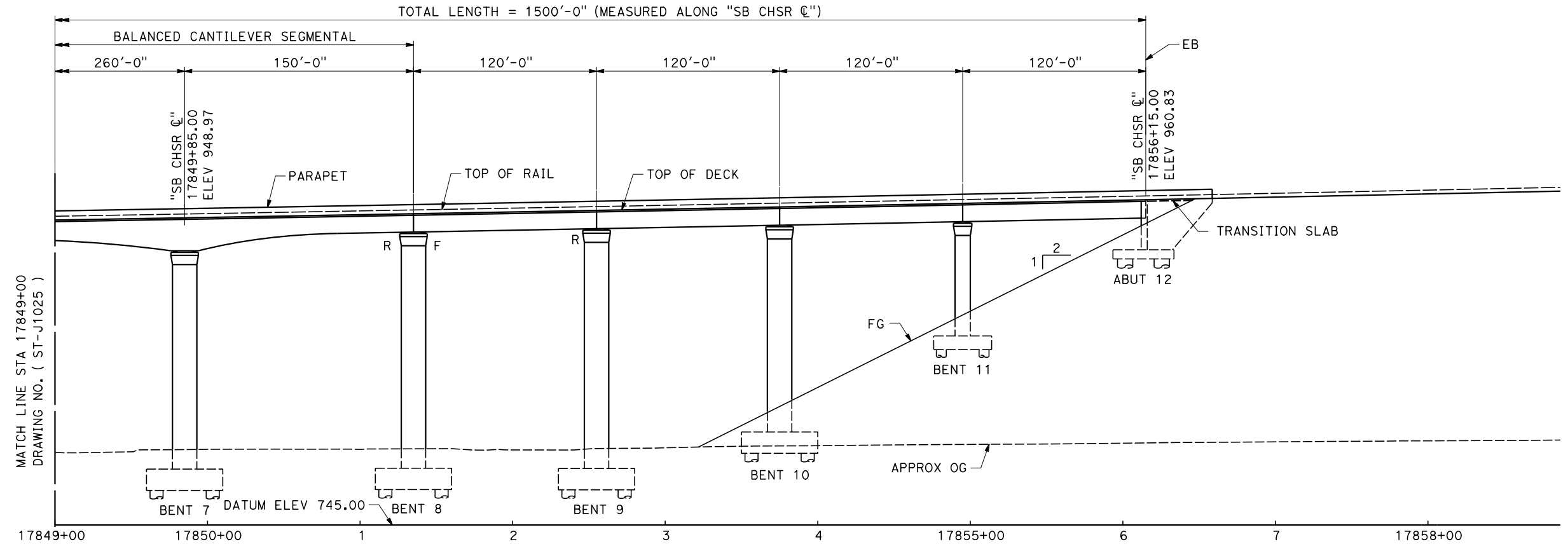
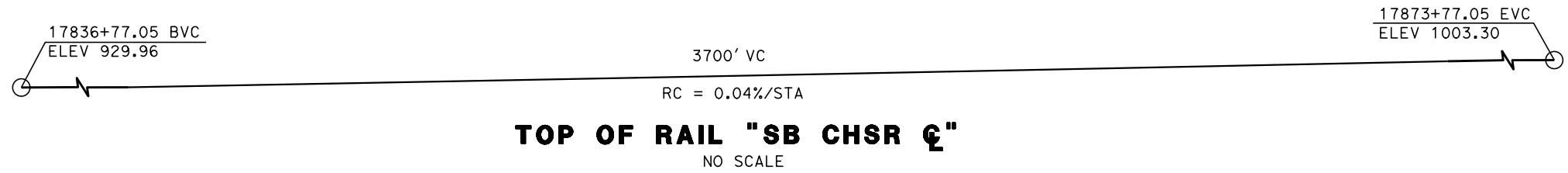


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**

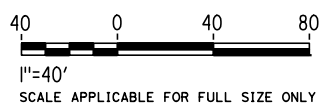
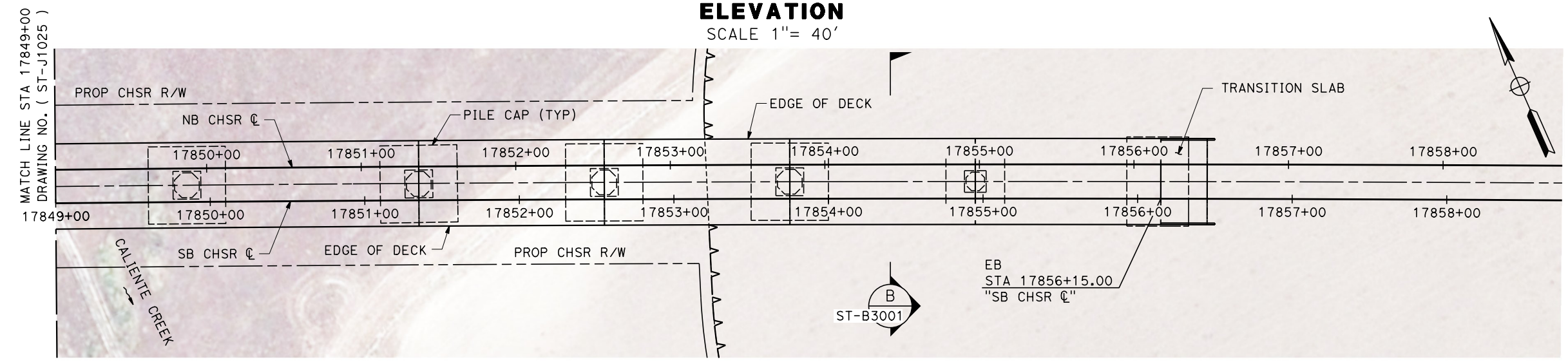
ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17841+15 TO 17856+15
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44
DRAWING NO.
ST-J1025
SCALE
AS SHOWN
SHEET NO.

Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1026.dgn
11:11:57 AM
10/30/2017
TYLIN\Wang



ELEVATION
SCALE 1"= 40'



PLAN
SCALE 1"= 40'

REV	DATE	BY	CHK	APP	DESCRIPTION

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ROBERT BARTON
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R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,3,5
TRACK STRUCTURES
VIADUCT STATION 17841+15 TO 17856+15
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44
DRAWING NO.
ST-J1026
SCALE
AS SHOWN
SHEET NO.

Projects\701206_00_CHSRBP\00_CADD\Sheet Files\ST\BP-ST-J1027.dgn

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10/30/2017

TYLIN\Wang

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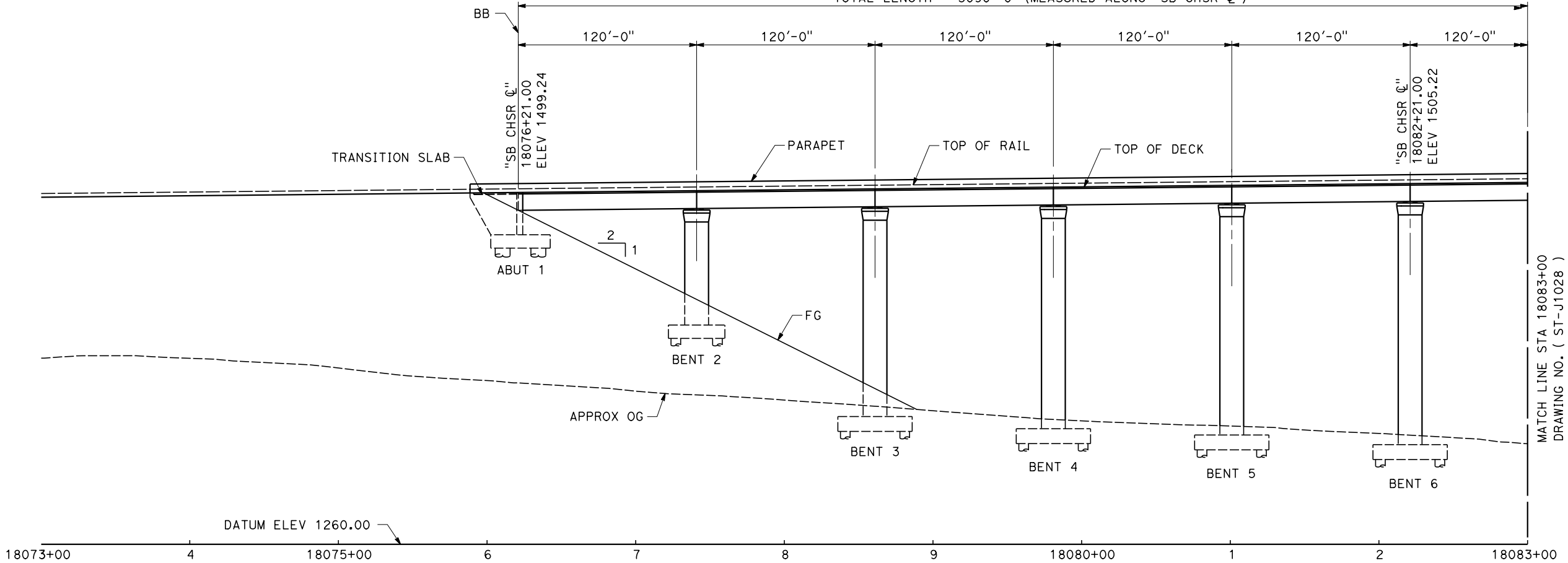
TOP OF RAIL "SB CHSR ☉"

NO SCALE

18136+60.72 BVC
ELEV 1559.39

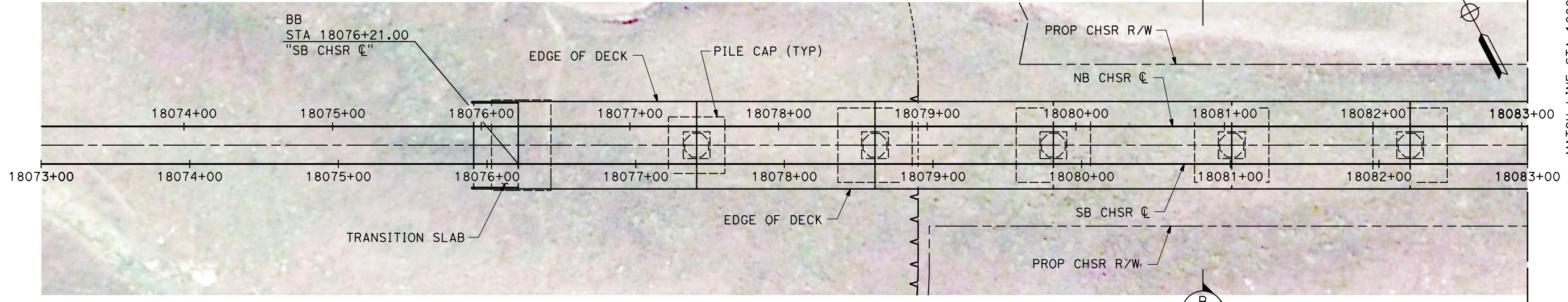
18057+41.80 EVC
ELEV 1480.53

TOTAL LENGTH = 3090'-0" (MEASURED ALONG "SB CHSR ☉")



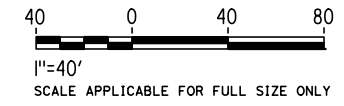
PROFILE

SCALE 1" = 40'



PLAN

SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
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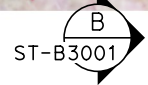


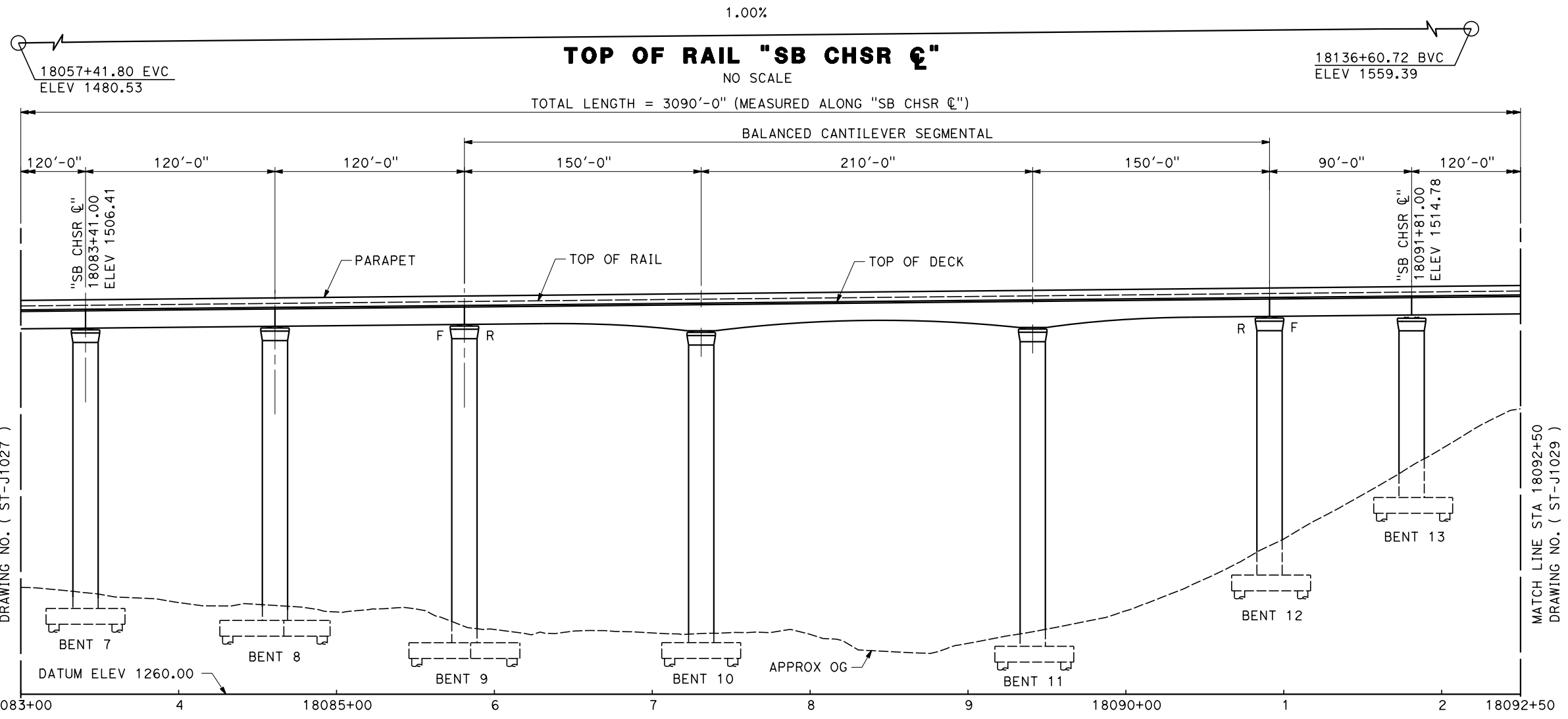
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,2,3,5
TRACK STRUCTURES
VIADUCT STATION 18076+21 TO 18107+11
PLAN AND ELEVATION

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

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

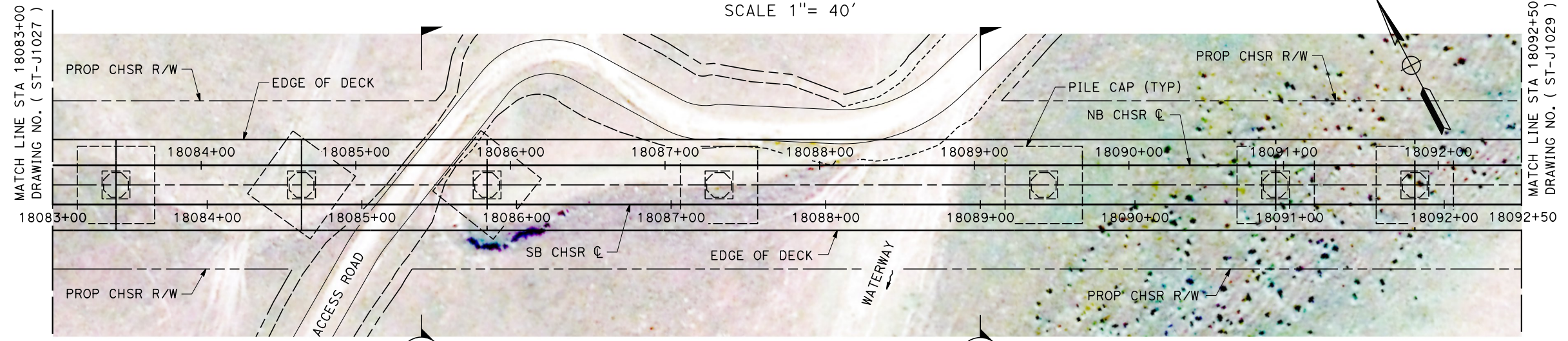
MATCH LINE STA 18083+00
DRAWING NO. (ST-J1028)





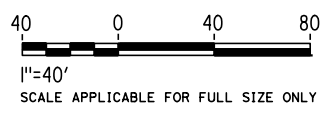
PROFILE

SCALE 1" = 40'



PLAN

SCALE 1" = 40'



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11:18:18 AM
10/30/2017
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ROBERT BARTON
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CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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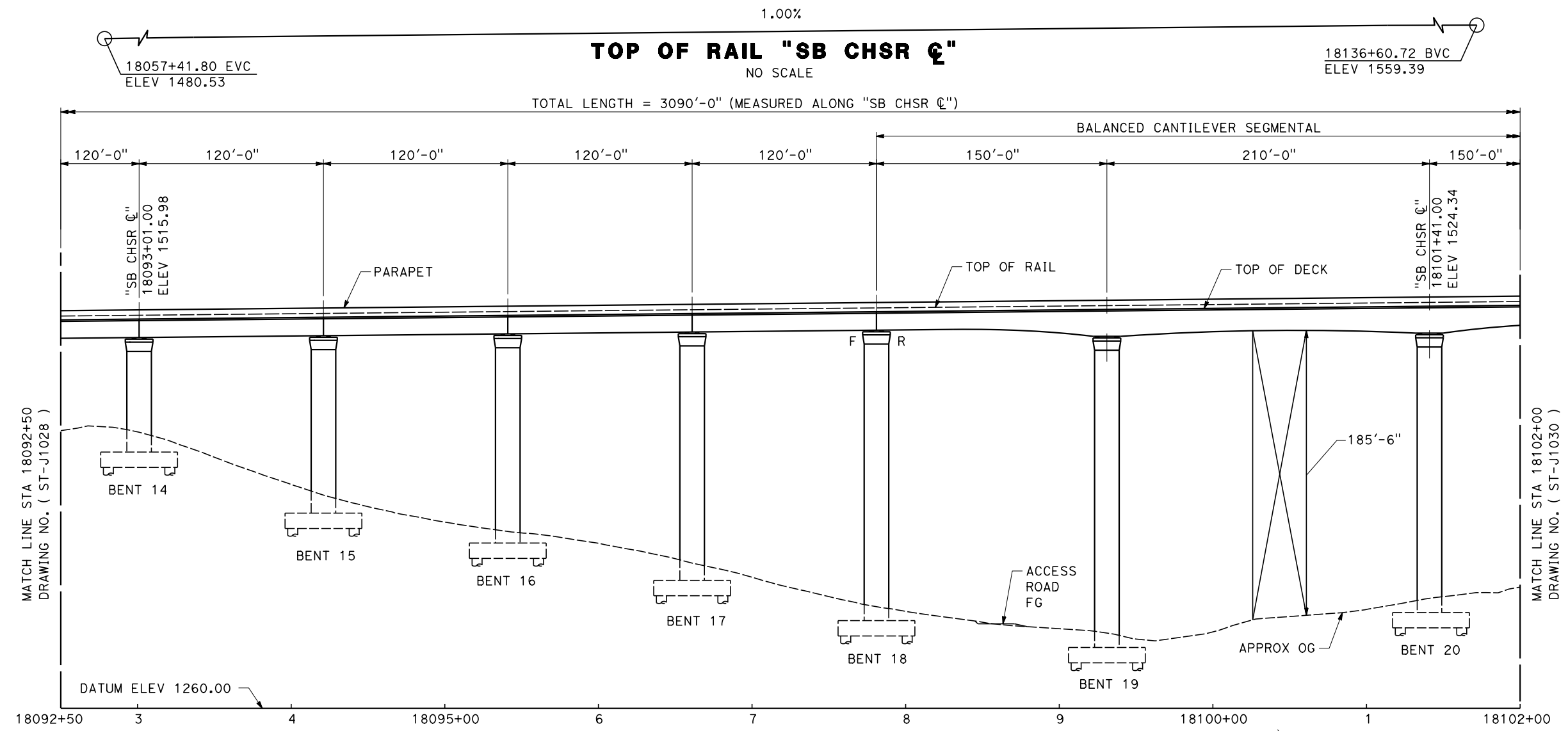
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
ALTERNATIVES 1,2,3,5
TRACK STRUCTURES
VIADUCT STATION 18076+21 TO 18107+11
PLAN AND ELEVATION

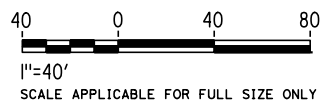
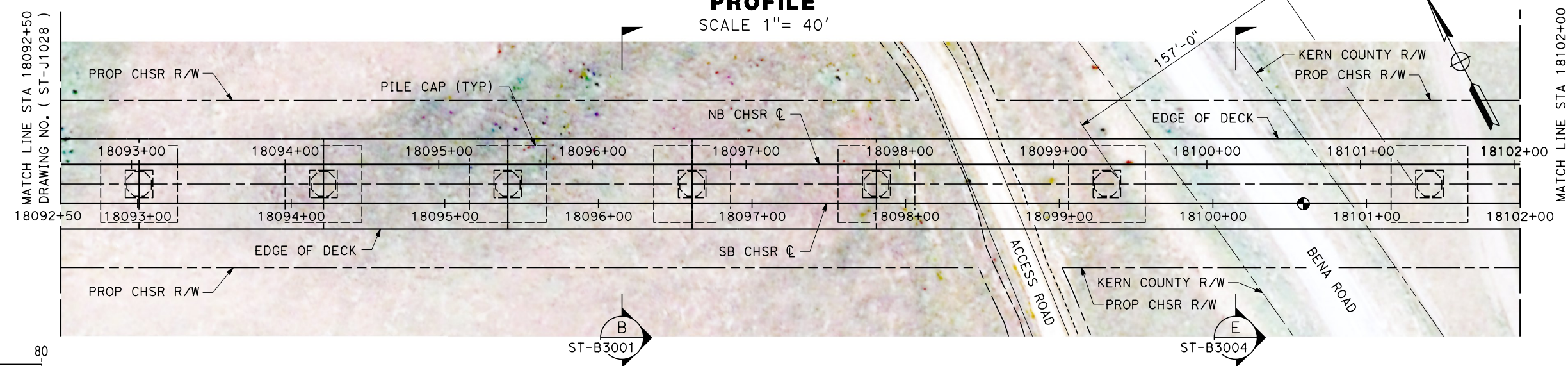
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HSR13-44
DRAWING NO.
ST-J1028
SCALE
AS SHOWN
SHEET NO.

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10/30/2017 11:11:52 AM TYLIN\Wang



PROFILE

SCALE 1" = 40'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
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STEVE SMITH
DATE
10/31/2017

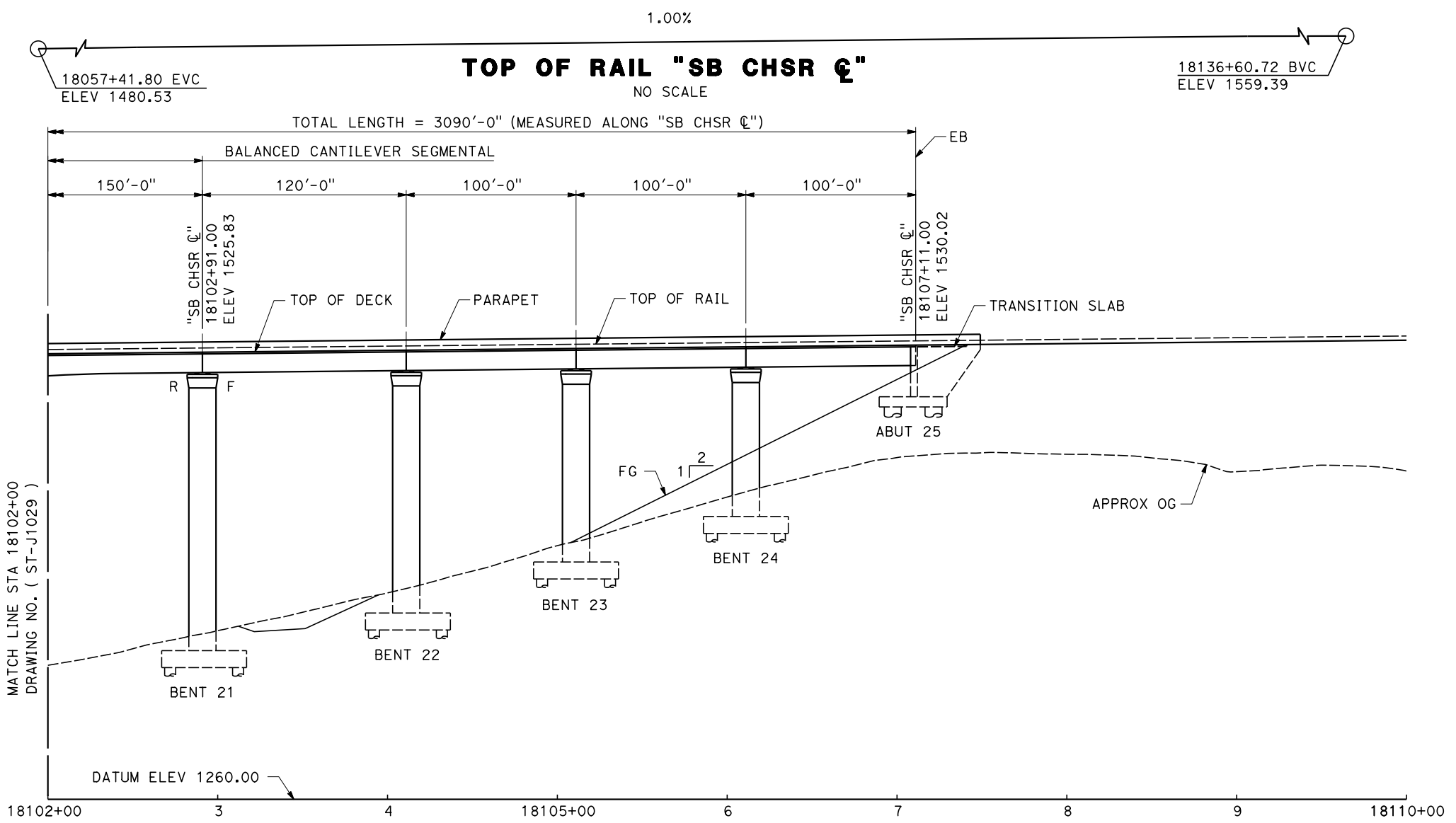
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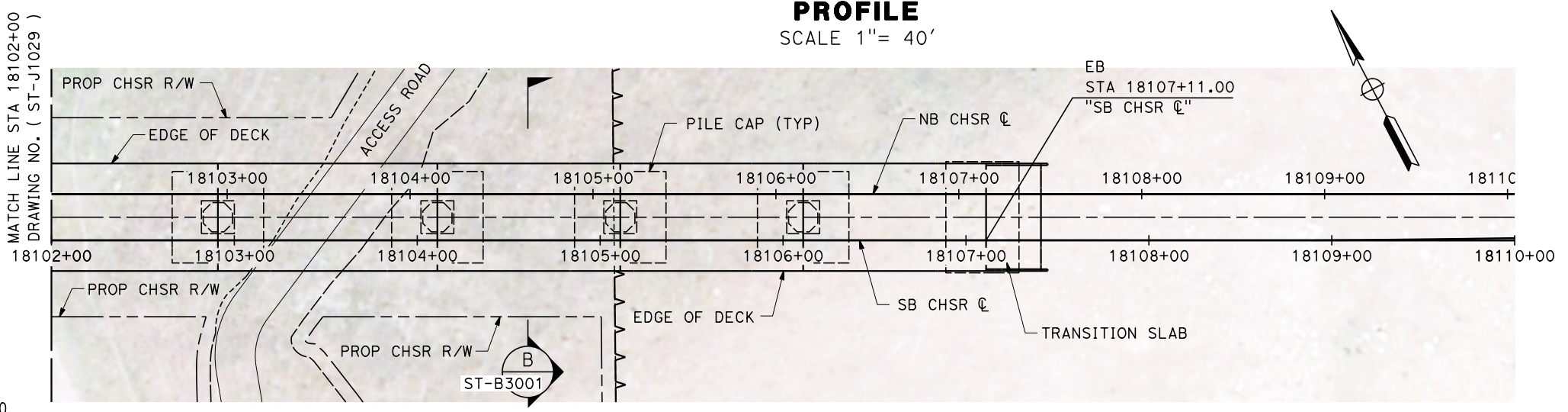


CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,2,3,5
TRACK STRUCTURES
VIADUCT STATION 18076+21 TO 18107+11
PLAN AND ELEVATION

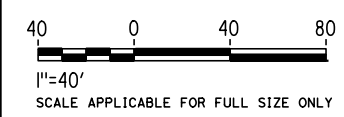
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HSR13-44
DRAWING NO.
ST-J1029
SCALE
AS SHOWN
SHEET NO.



PROFILE
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



Projects\701206_00_CHSRBP\00_CADD\Sheet Files\ST\BP-ST-J1030.dgn
10/30/2017 11:12:21 AM
TYLIN\Wang

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IN CHARGE
STEVE SMITH
DATE
10/31/2017

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CONSTRUCTION**



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

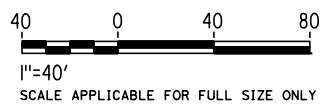
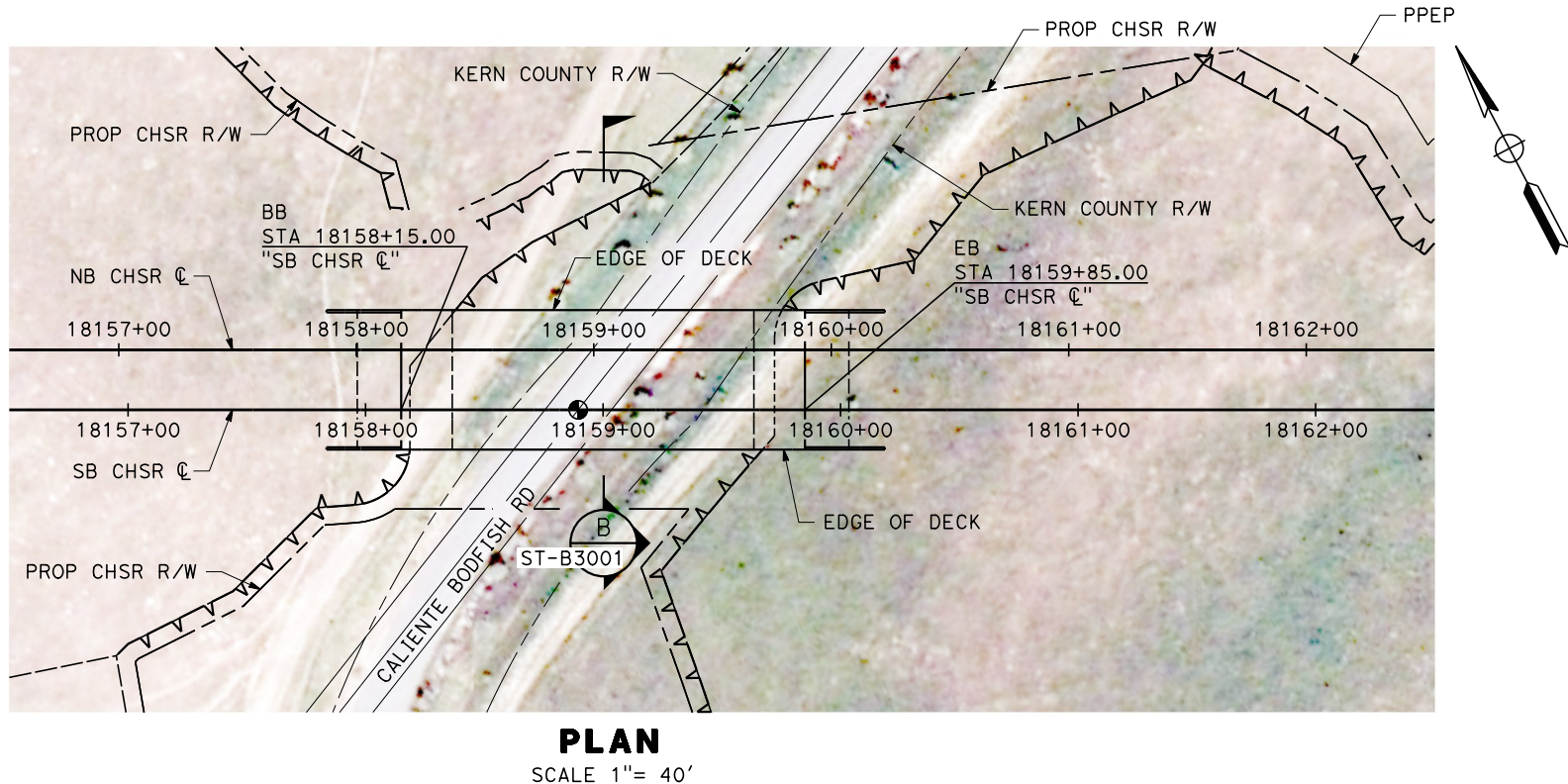
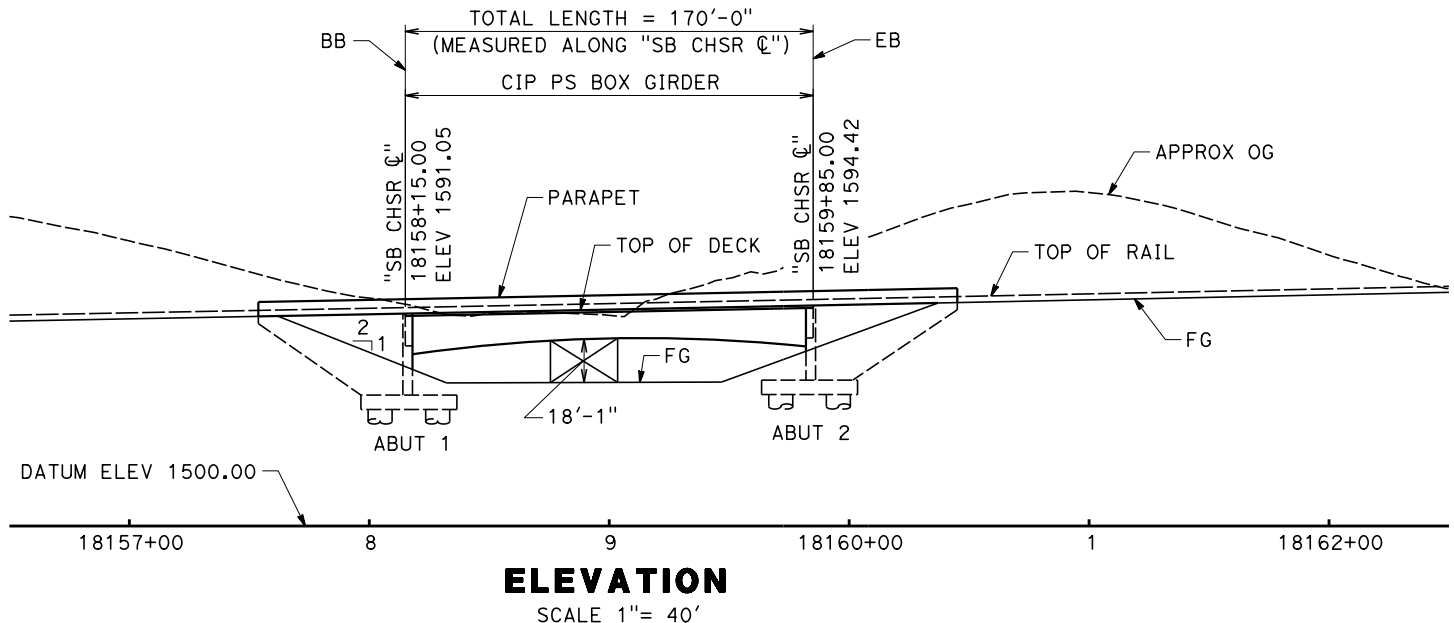
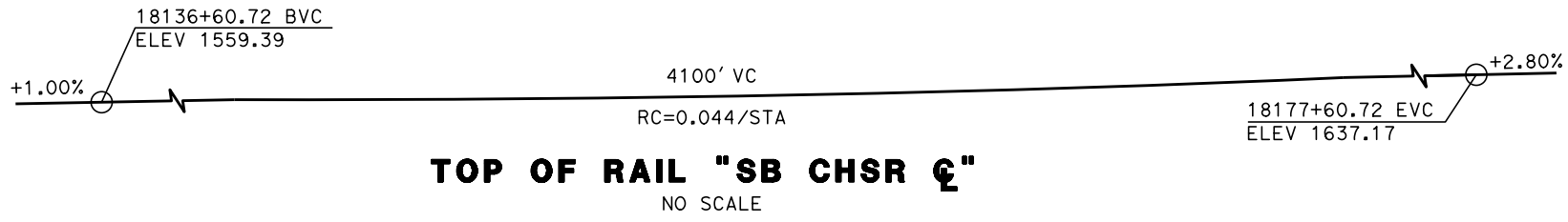
ALTERNATIVES 1,2,3,5
TRACK STRUCTURES
VIADUCT STATION 18076+21 TO 18107+11
PLAN AND ELEVATION

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

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10/30/2017 11:13:15 AM

TYLIN\Wang



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IVAN MARTIN
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R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

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CONSTRUCTION**



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

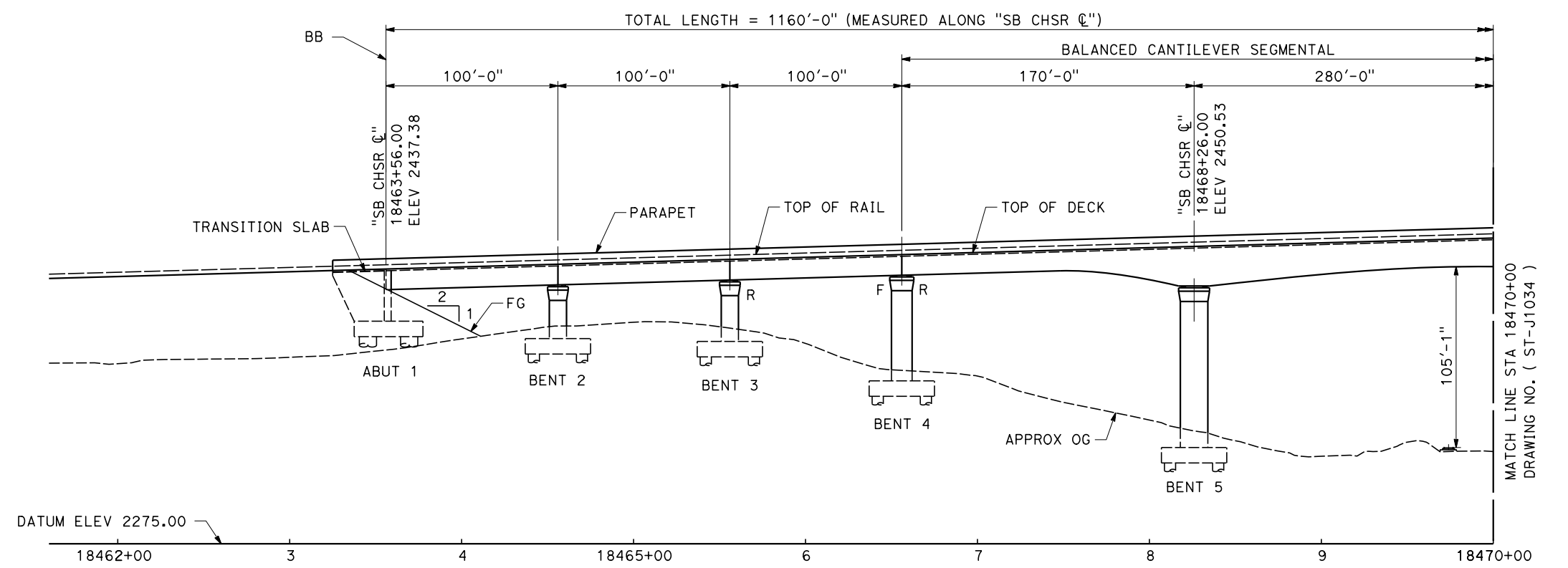
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HSR13-44
DRAWING NO.
ST-J1031
SCALE
AS SHOWN
SHEET NO.

18177+60.72 EVC
ELEV 1637.17

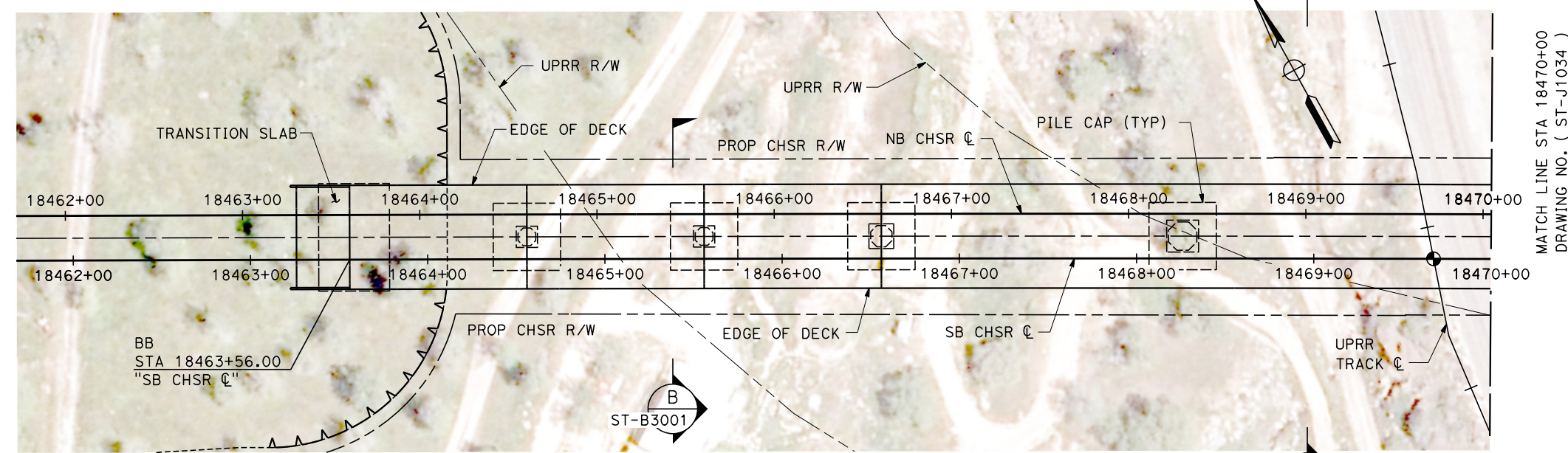
2.80%

TOP OF RAIL "SB CHSR ☉"
NO SCALE

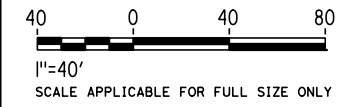
18990+16.70 BVC
ELEV 3911.02



PROFILE
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



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11:20:59 AM

10/30/2017

TYLIN\Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON

DRAWN BY
YIHONG WANG

CHECKED BY
R. GOLCHOBIAN

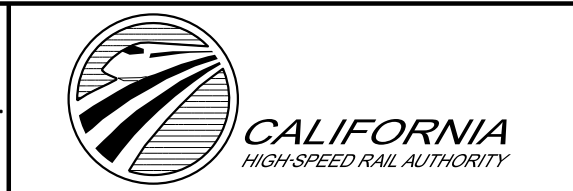
IN CHARGE
STEVE SMITH

DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

TYLIN INTERNATIONAL



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

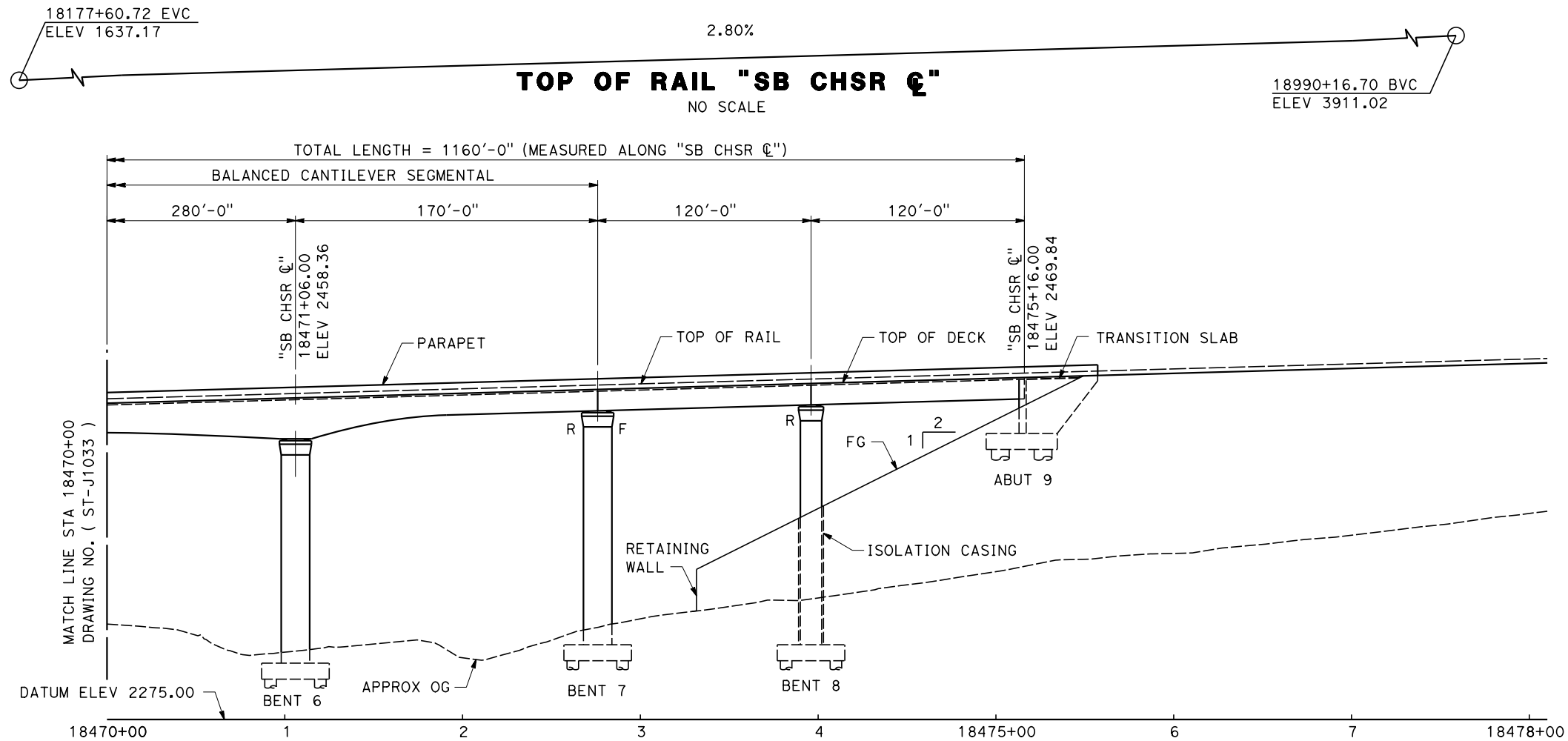
ALTERNATIVES 1,2,3,5
TRACK STRUCTURES
VIADUCT STATION 18463+56 TO 18475+16
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44

DRAWING NO.
ST-J1033

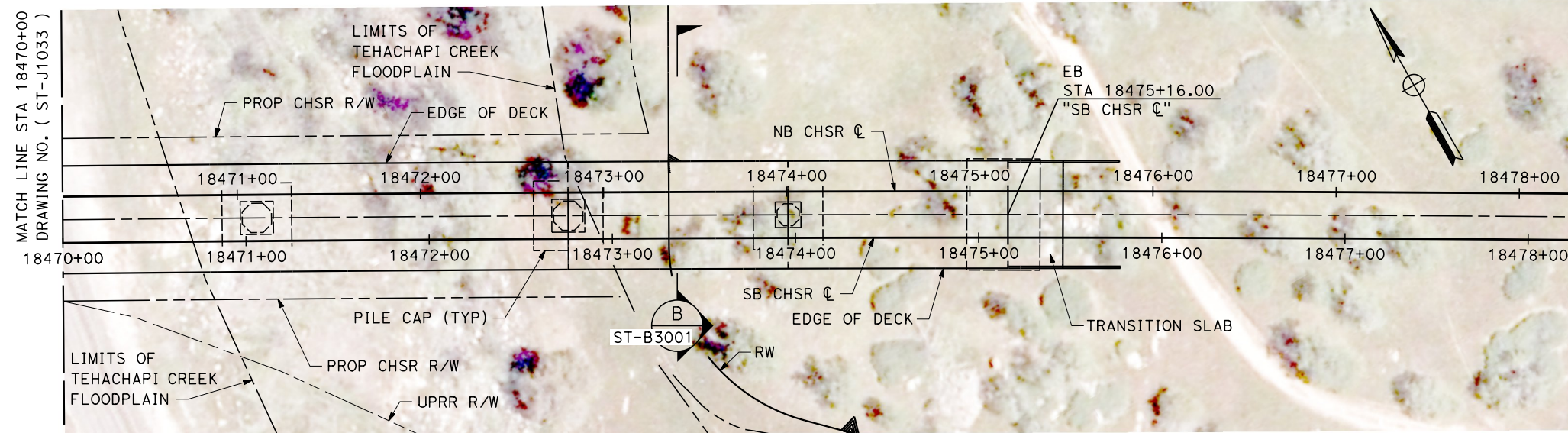
SCALE
AS SHOWN

SHEET NO.



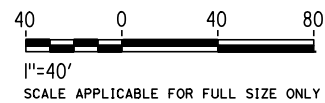
PROFILE

SCALE 1" = 40'



PLAN

SCALE 1" = 40'



DESIGNED BY
ROBERT BARTON

DRAWN BY
YIHONG WANG

CHECKED BY
R. GOLCHOBIAN

IN CHARGE
STEVE SMITH

DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

TYLIN INTERNATIONAL



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,2,3,5
TRACK STRUCTURES
VIADUCT STATION 18463+56 TO 18475+16
PLAN AND ELEVATION

CONTRACT NO.
HSR 13-44

DRAWING NO.
ST-J1034

SCALE
AS SHOWN

SHEET NO.

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\ST\BP-ST-J1034.dgn

11:11:59 AM

10/30/2017

TYLIN\Wang

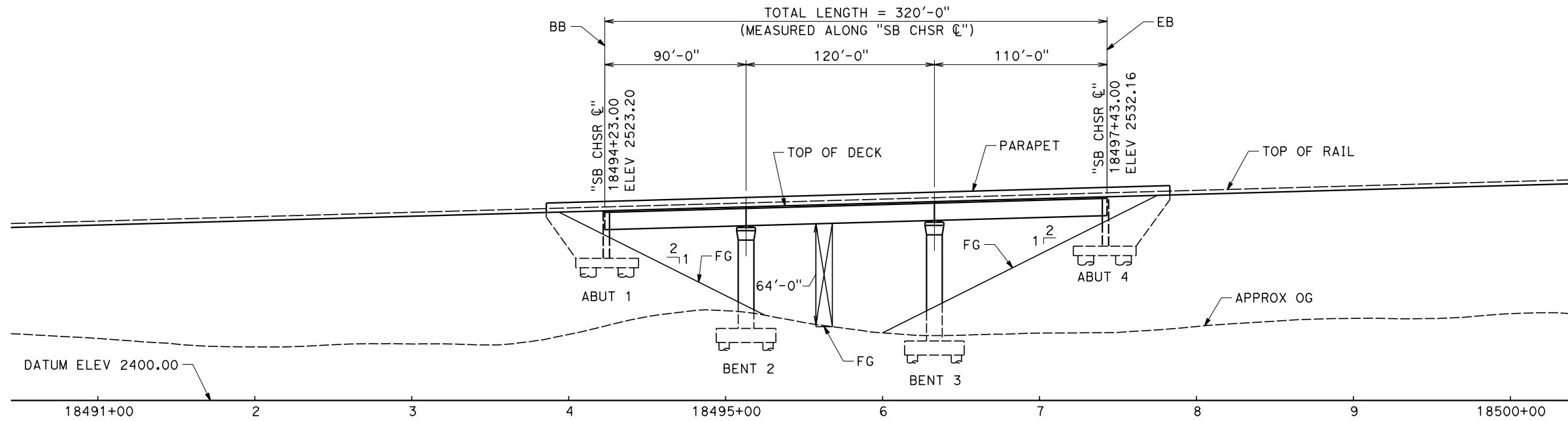
REV	DATE	BY	CHK	APP	DESCRIPTION

18177+60.72 EVC
ELEV 1637.17

+2.80%

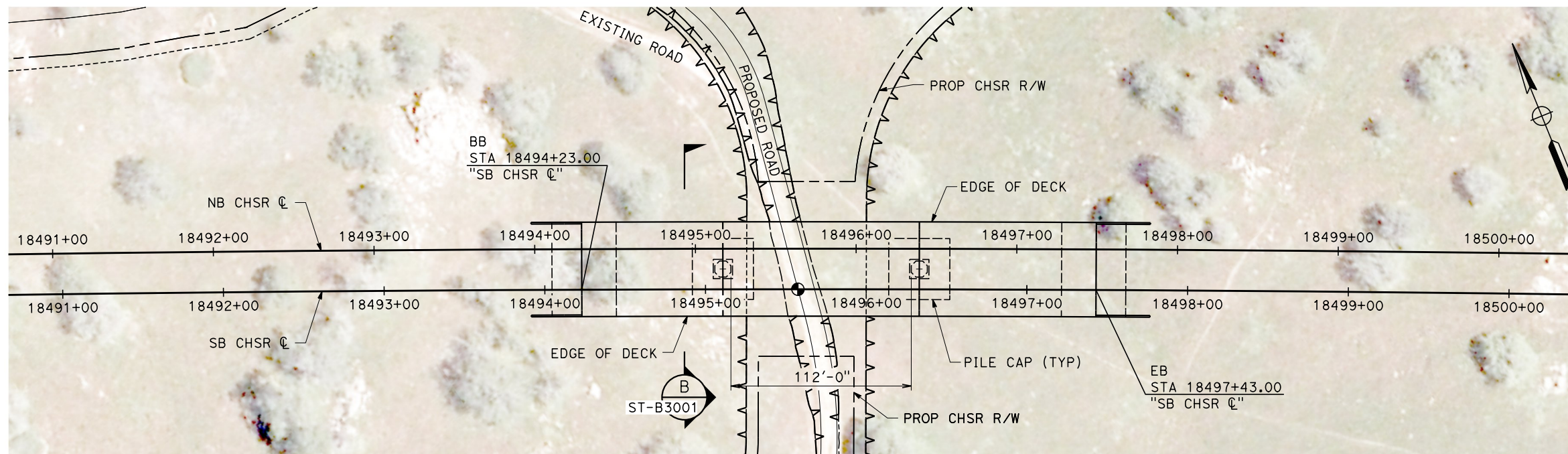
18990+16.70 BVC
ELEV 3911.02

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-J1035.dgn

11/13/10 AM

10/30/2017

TYLIN\Wang

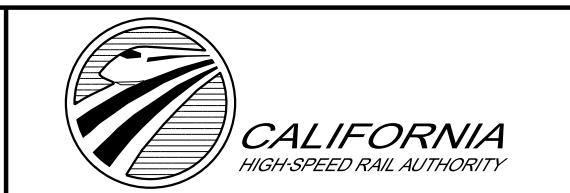
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
IVAN MARTIN
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

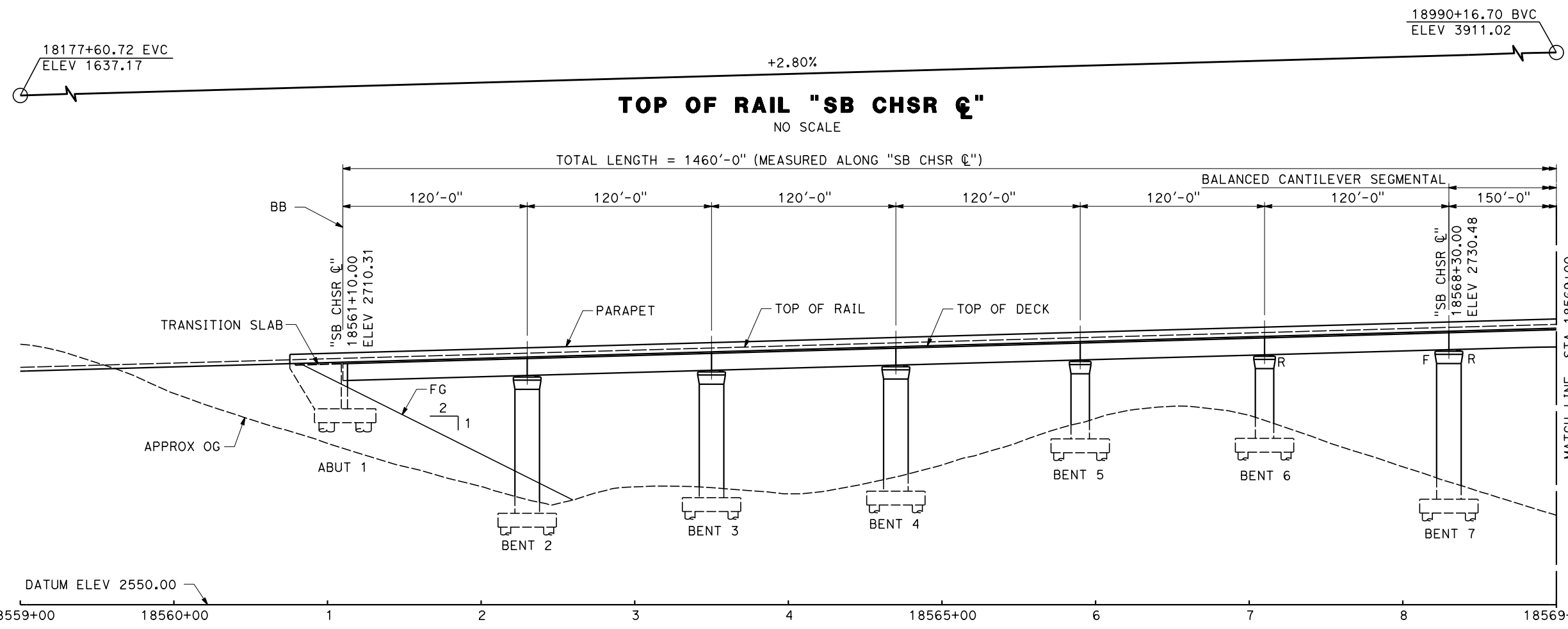
**NOT FOR
CONSTRUCTION**

TYLIN INTERNATIONAL

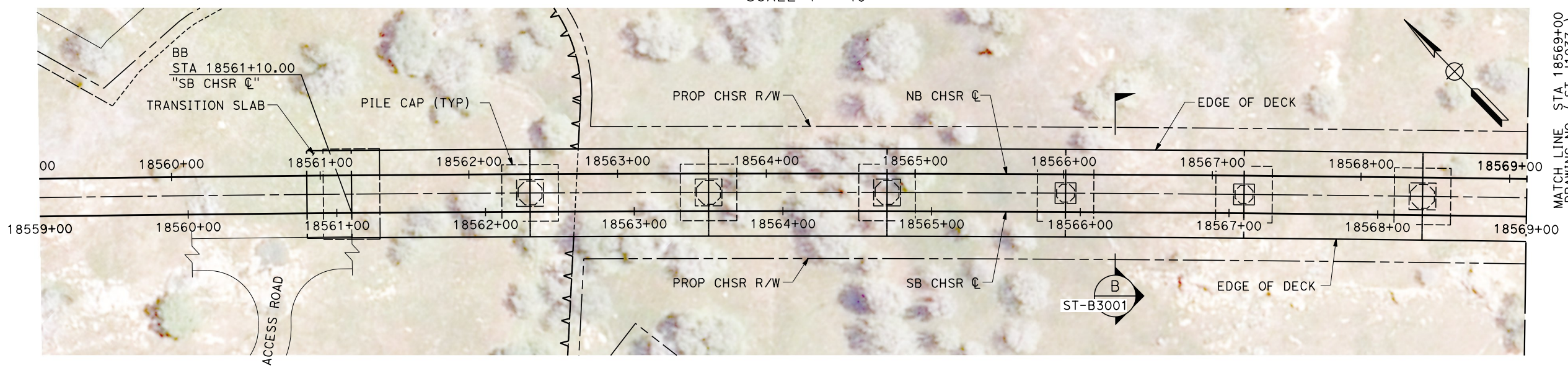


**CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE**
ALTERNATIVES 1,2,3,5
TRACK STRUCTURES
UNDERPASS STATION 18494+23 TO 18497+43
PLAN AND ELEVATION

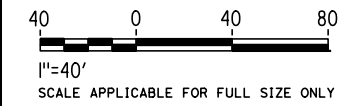
CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1035
SCALE
AS SHOWN
SHEET NO.



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'



Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1036.dgn
11:12:09 AM
10/30/2017
TYLIN\Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

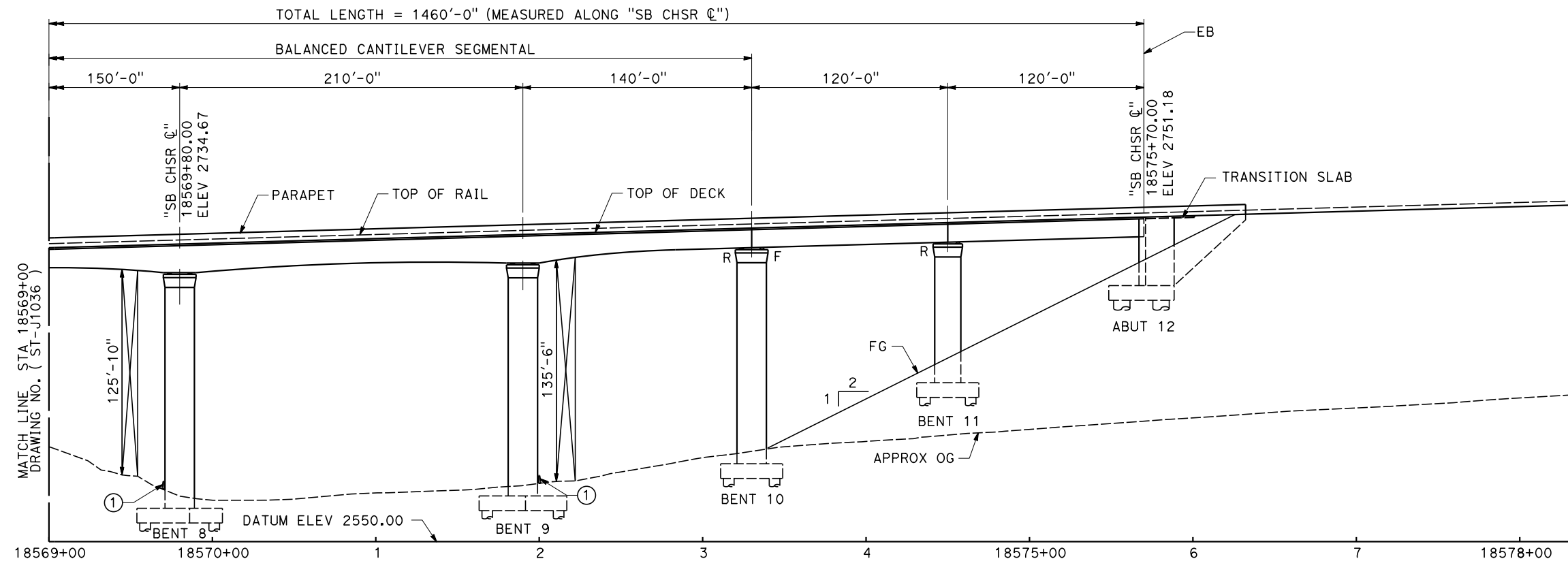
**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

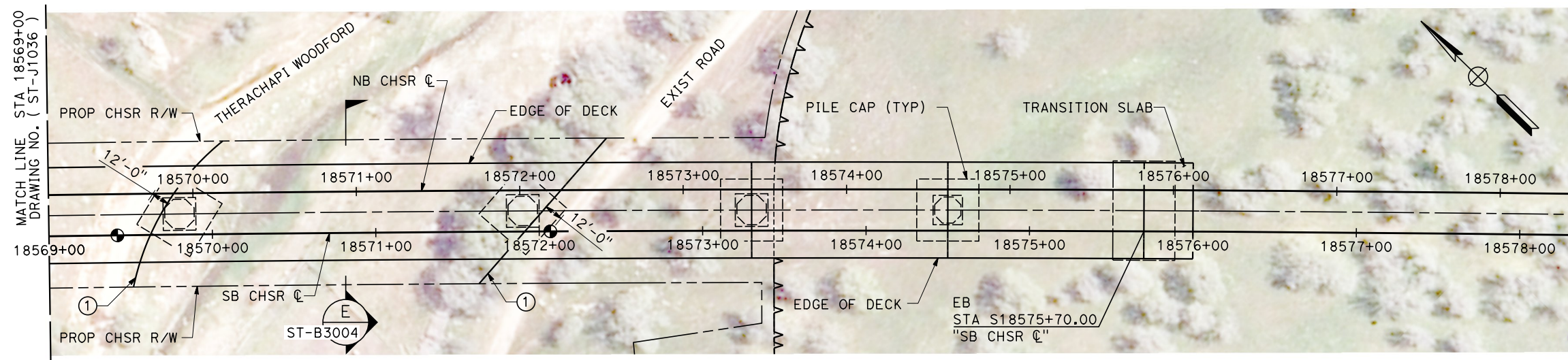


CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,2,3,5
TRACK STRUCTURES
VIADUCT STATION 18561+10 TO 18575+70
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1036
SCALE
AS SHOWN
SHEET NO.

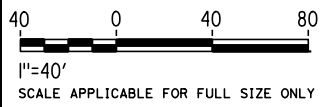


ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

Projects\701206.00_CHSRBP\00_CADD\Sheet Files\ST\BP-ST-J1037.dgn
10/30/2017 11:23:24 AM
TYLIN\Wang



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON
DRAWN BY
YIHONG WANG
CHECKED BY
R. GOLCHOBIAN
IN CHARGE
STEVE SMITH
DATE
10/31/2017

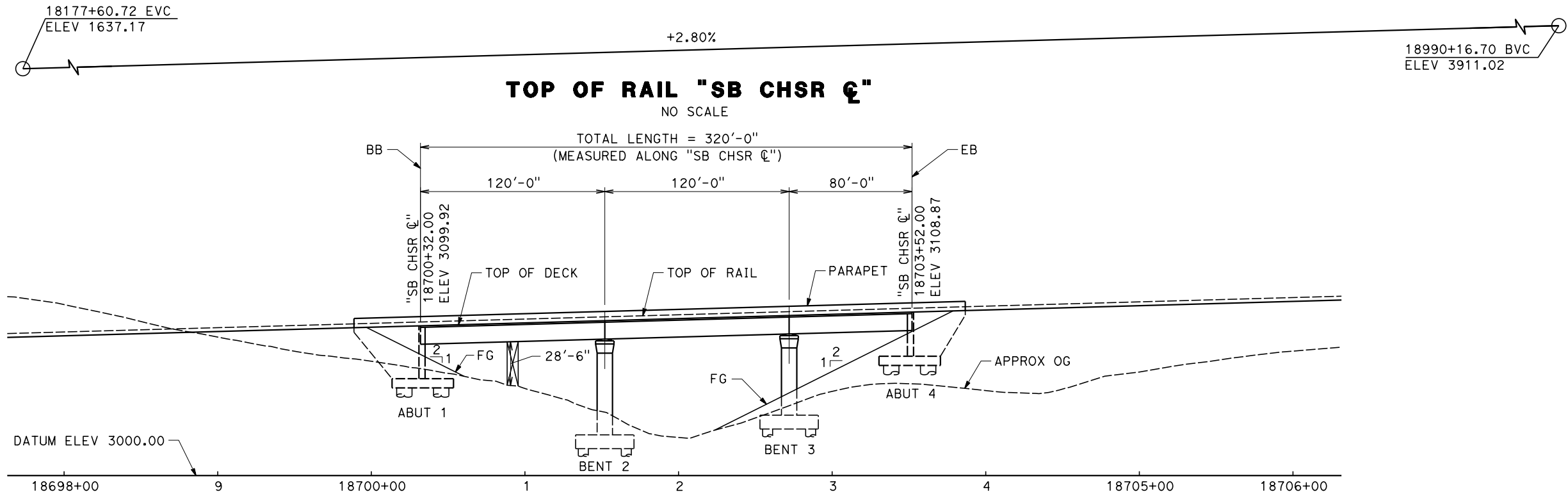
**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

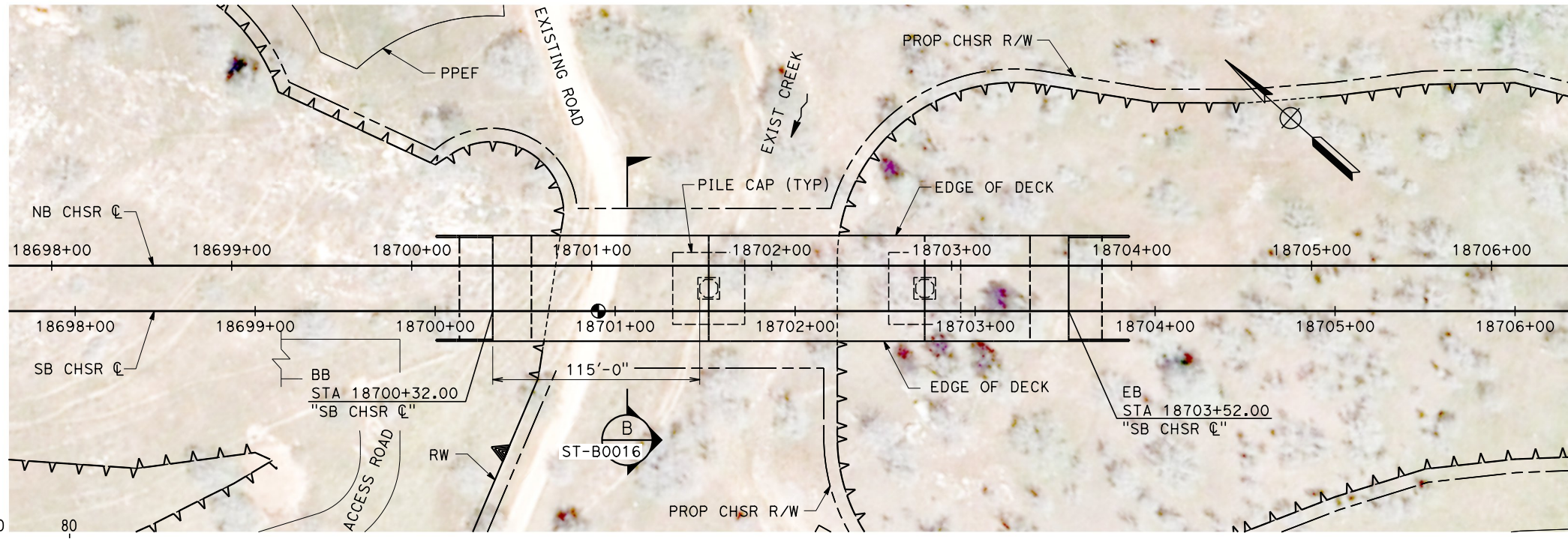


CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,2,3,5
TRACK STRUCTURES
VIADUCT STATION 18561+10 TO 18575+70
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44
DRAWING NO.
ST-J1037
SCALE
AS SHOWN
SHEET NO.



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

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

Projects\701206_00_CHSRBP\00_CADD\Sheet_Files\ST\BP-ST-J1038.dgn
10/30/2017 11:13:12 AM
TYLIN\Wang

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
ROBERT BARTON

DRAWN BY
IVAN MARTIN

CHECKED BY
R. GOLCHOBIAN

IN CHARGE
STEVE SMITH

DATE
10/31/2017

**RECORD
PEPD
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

TYLIN INTERNATIONAL



CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVES 1,2,3,5
TRACK STRUCTURES
UNDERPASS STATION 18700+32 TO 18703+52
PLAN AND ELEVATION

CONTRACT NO.
HSR13-44

DRAWING NO.
ST-J1038

SCALE
AS SHOWN

SHEET NO.