CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

Final EIR/EIS

Fresno to Bakersfield Section

Volume III: Alignments and Other Plans

Section G HST Structure Plans Part 2 of 2

April 2014

CALIFORNIA High-Speed Rail Authority

U.S. Department of Transportation
Federal Railroad Administration

LEGEND

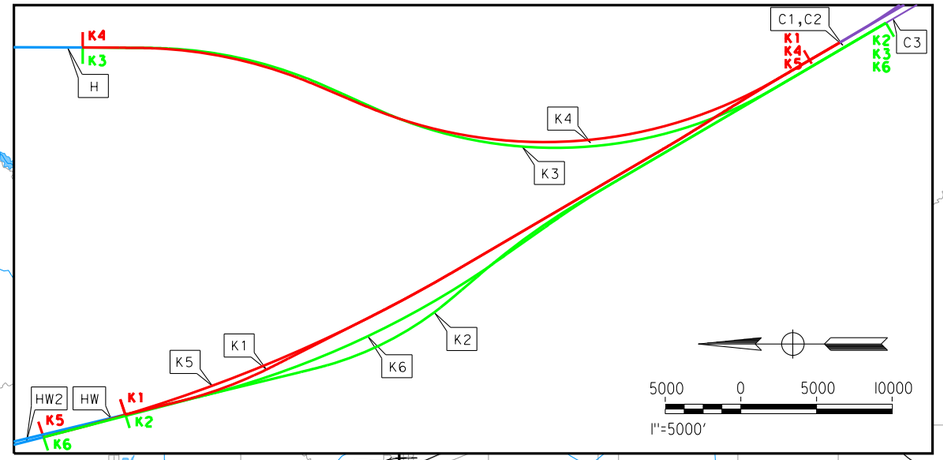
- COUNTY LINES
- STATE PARKS
- USFWS RESERVES
- URBAN AREAS
- B1 CHST ALIGNMENT OPTIONS
- WATERCOURSE
- ROAD
- FREIGHT RAIL

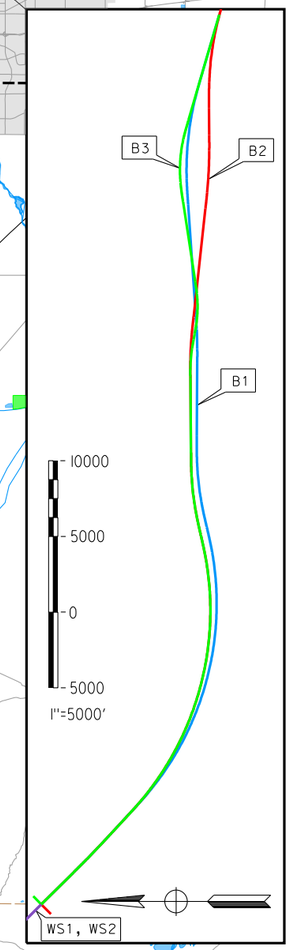
TULARE COUNTY
FRESNO COUNTY
KERN COUNTY
KINGS COUNTY

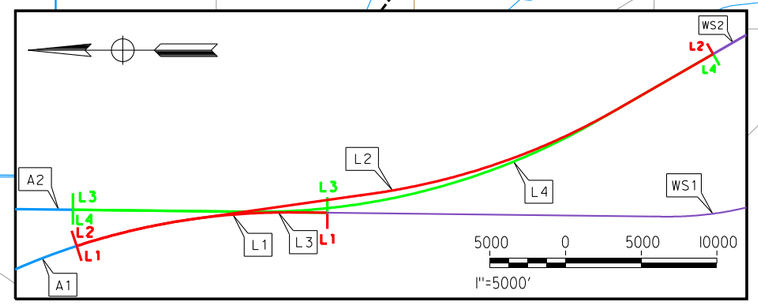
VISALIA
TULARE
HANFORD
CORCORAN
FRESNO
WASCO
SHAFTER
BAKERSFIELD

SR 180
SR 99
SR 198
SR 43
SR 41
SR 58

Kings River
Kaweah River
Tule River
Canal
Poso Creek
Kern River







20000 0 20000 40000
1"=20000'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY D. HUNT
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

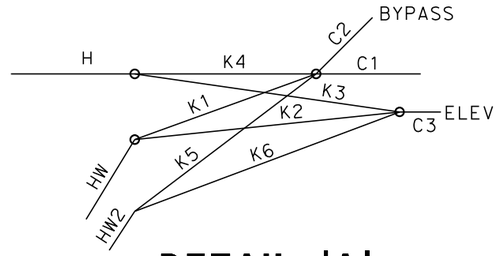
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

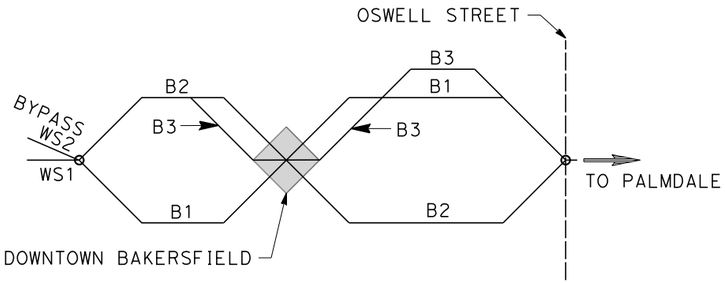
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT
LOCATION MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0001
SCALE AS SHOWN
SHEET NO. 1 OF 12

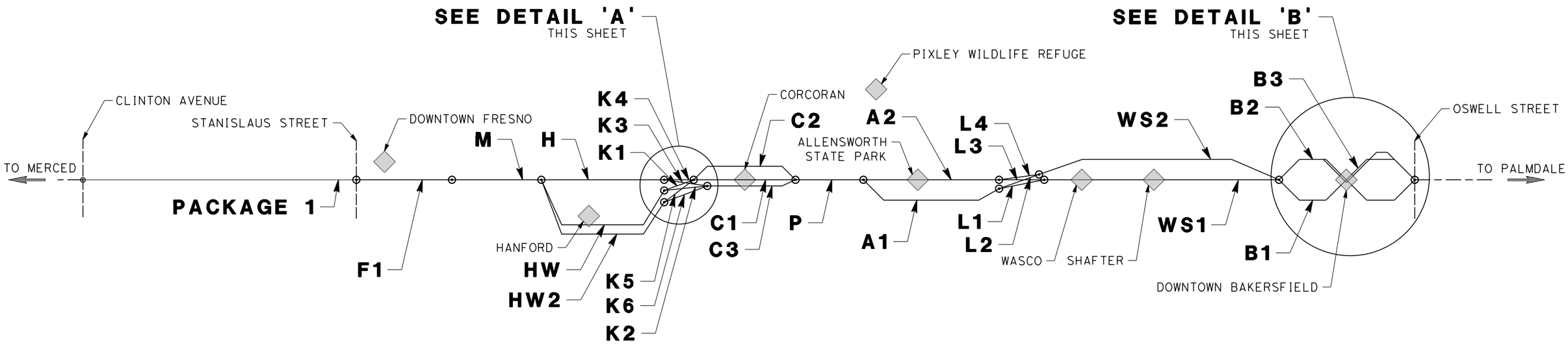
SUBSECTION CODE	NAME	LENGTH (MI)	EIR-EIS ALTERNATIVE
F1	FRESNO SUBSECTION	7.00	BNSF
M	MONMOUTH SUBSECTION	8.24	BNSF
H	HANFORD SUBSECTION	20.45	BNSF (HANFORD EAST)
HW	HANFORD WEST BYPASS SUBSECTION	18.27	HANFORD WEST BYPASS 1 & 2
HW2	HANFORD WEST BYPASS SUBSECTION	17.22	HANFORD WEST BYPASS 1 & 2 MODIFIED
K1	KAWEAH SUBSECTION	10.12	HANFORD WEST BYPASS 2 (AT-GRADE) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K2	KAWEAH SUBSECTION	10.83	HANFORD WEST BYPASS 1 (AT-GRADE) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
K3	KAWEAH SUBSECTION	10.61	BNSF (HANFORD EAST) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
K4	KAWEAH SUBSECTION	9.92	BNSF (HANFORD EAST) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K5	KAWEAH SUBSECTION	11.17	HANFORD WEST BYPASS 2 MODIFIED (BELOW-GRADE) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K6	KAWEAH SUBSECTION	11.84	HANFORD WEST BYPASS 1 MODIFIED (BELOW-GRADE) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
C1	CORCORAN SUBSECTION	9.36	CORCORAN ELEVATED
C2	CORCORAN BYPASS SUBSECTION	9.49	CORCORAN BYPASS
C3	CORCORAN SUBSECTION	8.74	BNSF (THROUGH CORCORAN)
P	PIXLEY SUBSECTION	6.88	BNSF
A1	ALLENSWORTH BYPASS SUBSECTION	19.05	ALLENSWORTH BYPASS
A2	THROUGH ALLENSWORTH SUBSECTION	19.03	BNSF (THROUGH ALLENSWORTH)
L1	POSO CREEK SUBSECTION	3.18	ALLENSWORTH BYPASS (CONNECTS TO BNSF [THROUGH WASCO-SHAFTER])
L2	POSO CREEK SUBSECTION	8.41	ALLENSWORTH BYPASS (CONNECTS TO WASCO-SHAFTER BYPASS)
L3	POSO CREEK SUBSECTION	3.18	BNSF (THROUGH ALLENSWORTH) (CONNECTS TO BNSF [THROUGH WASCO-SHAFTER])
L4	POSO CREEK SUBSECTION	8.43	BNSF (THROUGH ALLENSWORTH) (CONNECTS TO WASCO-SHAFTER BYPASS)
WS1	THROUGH WASCO-SHAFTER SUBSECTION	20.63	BNSF (THROUGH WASCO-SHAFTER)
WS2	WASCO-SHAFTER BYPASS SUBSECTION	14.49	WASCO-SHAFTER BYPASS
B1	BAKERSFIELD URBAN SUBSECTION	11.95	BNSF (BAKERSFIELD NORTH)
B2	BAKERSFIELD URBAN SUBSECTION	11.88	BAKERSFIELD SOUTH
B3	BAKERSFIELD URBAN SUBSECTION	11.95	BAKERSFIELD HYBRID



DETAIL 'A'



DETAIL 'B'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY D. HUNT
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT
ALIGNMENT SUBSECTION DIAGRAM

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0002
SCALE NTS
SHEET NO. 2 OF 12

GENERAL SHEETS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0001	ALIGNMENT - LOCATION MAP	SHEET 1 OF 12	1
CB0002	ALIGNMENT - ALIGNMENT SUBSECTION DIAGRAM	SHEET 2 OF 12	
SB2001	HST STRUCTURES - INDEX OF SHEETS - SHEET 1 OF 8	SHEET 3 OF 12	
SB2002	HST STRUCTURES - INDEX OF SHEETS - SHEET 2 OF 8	SHEET 4 OF 12	
SB2003	HST STRUCTURES - INDEX OF SHEETS - SHEET 3 OF 8	SHEET 5 OF 12	
SB2004	HST STRUCTURES - INDEX OF SHEETS - SHEET 4 OF 8	SHEET 6 OF 12	
SB2005	HST STRUCTURES - INDEX OF SHEETS - SHEET 5 OF 8	SHEET 7 OF 12	
SB2006	HST STRUCTURES - INDEX OF SHEETS - SHEET 6 OF 8	SHEET 8 OF 12	
SB2007	HST STRUCTURES - INDEX OF SHEETS - SHEET 7 OF 8	SHEET 9 OF 12	
SB2008	HST STRUCTURES - INDEX OF SHEETS - SHEET 8 OF 8	SHEET 10 OF 12	
CB0010	GENERAL - ABBREVIATIONS AND LEGENDS - SHEET 1 OF 2	SHEET 11 OF 12	
CB0011	GENERAL - ABBREVIATIONS AND LEGENDS - SHEET 2 OF 2	SHEET 12 OF 12	

ALIGNMENT F1 - FRESNO STREET UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2185	FRESNO SUBSECTION - ALIGNMENT F1 - FRESNO STREET UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2186	FRESNO SUBSECTION - ALIGNMENT F1 - FRESNO STREET UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT F1 - TULARE STREET UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2187	FRESNO SUBSECTION - ALIGNMENT F1 - TULARE STREET UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2188	FRESNO SUBSECTION - ALIGNMENT F1 - TULARE STREET UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT F1 - TULARE STREET UPRR UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2280	FRESNO SUBSECTION - ALIGNMENT F1 - TULARE STREET UPRR UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2281	FRESNO SUBSECTION - ALIGNMENT F1 - TULARE STREET UPRR UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT F1 - VENTURA STREET UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2215	FRESNO SUBSECTION - ALIGNMENT F1 - VENTURA STREET UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2216	FRESNO SUBSECTION - ALIGNMENT F1 - VENTURA STREET UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT F1 - VENTURA STREET UPRR UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2282	FRESNO SUBSECTION - ALIGNMENT F1 - VENTURA STREET UPRR UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2283	FRESNO SUBSECTION - ALIGNMENT F1 - VENTURA STREET UPRR UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT F1 - JENSEN TRENCH

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2190	FRESNO SUBSECTION - ALIGNMENT F1 - JENSEN TRENCH - KEY MAP	SHEET 1 OF 10	1
SV2191	FRESNO SUBSECTION - ALIGNMENT F1 - JENSEN TRENCH - PLAN AND ELEVATION	SHEET 2 OF 10	
SV2192	FRESNO SUBSECTION - ALIGNMENT F1 - JENSEN TRENCH - PLAN AND ELEVATION	SHEET 3 OF 10	
SV2193	FRESNO SUBSECTION - ALIGNMENT F1 - JENSEN TRENCH - PLAN AND ELEVATION	SHEET 4 OF 10	
SV2194	FRESNO SUBSECTION - ALIGNMENT F1 - JENSEN TRENCH - PLAN AND ELEVATION	SHEET 5 OF 10	
SV2195	FRESNO SUBSECTION - ALIGNMENT F1 - JENSEN TRENCH - PLAN AND ELEVATION	SHEET 6 OF 10	
SV2196	FRESNO SUBSECTION - ALIGNMENT F1 - JENSEN TRENCH - PLAN AND ELEVATION	SHEET 7 OF 10	
SV2197	FRESNO SUBSECTION - ALIGNMENT F1 - JENSEN TRENCH - PLAN AND ELEVATION	SHEET 8 OF 10	
SV2198	FRESNO SUBSECTION - ALIGNMENT F1 - JENSEN TRENCH - PLAN AND ELEVATION	SHEET 9 OF 10	
SV2199	FRESNO SUBSECTION - ALIGNMENT F1 - JENSEN TRENCH - TYPICAL SECTIONS	SHEET 10 OF 10	

ALIGNMENT F1 - FRESNO VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2200	FRESNO SUBSECTION - ALIGNMENT F1 - FRESNO VIADUCT - KEY MAP	SHEET 1 OF 10	1
SV2201	FRESNO SUBSECTION - ALIGNMENT F1 - FRESNO VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 10	
SV2202	FRESNO SUBSECTION - ALIGNMENT F1 - FRESNO VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 10	
SV2203	FRESNO SUBSECTION - ALIGNMENT F1 - FRESNO VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 10	
SV2204	FRESNO SUBSECTION - ALIGNMENT F1 - FRESNO VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 10	
SV2205	FRESNO SUBSECTION - ALIGNMENT F1 - FRESNO VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 10	
SV2206	FRESNO SUBSECTION - ALIGNMENT F1 - FRESNO VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 10	
SV2207	FRESNO SUBSECTION - ALIGNMENT F1 - FRESNO VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 10	
SV2208	FRESNO SUBSECTION - ALIGNMENT F1 - FRESNO VIADUCT - TYPICAL SECTIONS	SHEET 9 OF 10	
SV2209	FRESNO SUBSECTION - ALIGNMENT F1 - FRESNO VIADUCT - TYPICAL SECTIONS	SHEET 10 OF 10	

ALIGNMENT H - CONEJO VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2220	HANFORD SUBSECTION - ALIGNMENT H - CONEJO VIADUCT - KEY MAP	1 OF 8	1
SV2221	HANFORD SUBSECTION - ALIGNMENT H - CONEJO VIADUCT - PLAN AND ELEVATION	2 OF 8	
SV2222	HANFORD SUBSECTION - ALIGNMENT H - CONEJO VIADUCT - PLAN AND ELEVATION	3 OF 8	
SV2223	HANFORD SUBSECTION - ALIGNMENT H - CONEJO VIADUCT - PLAN AND ELEVATION	4 OF 8	
SV2224	HANFORD SUBSECTION - ALIGNMENT H - CONEJO VIADUCT - PLAN AND ELEVATION	5 OF 8	
SV2225	HANFORD SUBSECTION - ALIGNMENT H - CONEJO VIADUCT - PLAN AND ELEVATION	6 OF 8	
SV2226	HANFORD SUBSECTION - ALIGNMENT H - CONEJO VIADUCT - PLAN AND ELEVATION	7 OF 8	
SV2227	HANFORD SUBSECTION - ALIGNMENT H - CONEJO VIADUCT - TYPICAL SECTIONS	8 OF 8	

ALIGNMENT H - KINGS RIVER VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2258	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - KEY MAP	SHEET 1 OF 18	1
SV2259	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 18	
SV2260	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 18	
SV2261	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 18	
SV2262	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 18	
SV2263	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 18	
SV2264	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 18	
SV2265	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 18	
SV2266	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 18	
SV2267	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 18	
SV2268	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 18	
SV2269	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 18	
SV2270	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 13 OF 18	
SV2271	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 14 OF 18	
SV2272	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 15 OF 18	
SV2273	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 16 OF 18	
SV2274	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - TYPICAL SECTIONS	SHEET 17 OF 18	
SV2275	HANFORD SUBSECTION - ALIGNMENT H - KINGS RIVER VIADUCT - TYPICAL SECTIONS	SHEET 18 OF 18	

ALIGNMENT H - HANFORD VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2300	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - KEY MAP	SHEET 1 OF 14	1
SV2301	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 14	
SV2302	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 14	
SV2303	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 14	
SV2304	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 14	
SV2305	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 14	
SV2306	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 14	
SV2307	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 14	
SV2308	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 14	
SV2309	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 14	
SV2310	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 14	
SV2311	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 14	
SV2312	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - TYPICAL SECTIONS	SHEET 13 OF 14	
SV2313	HANFORD SUBSECTION - ALIGNMENT H - HANFORD VIADUCT - TYPICAL SECTIONS	SHEET 14 OF 14	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY J. VALENZUELA
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HST STRUCTURES
INDEX OF SHEETS
SHEET 1 OF 8

CONTRACT NO. HSR 06-0003
DRAWING NO. SB2001
SCALE NO SCALE
SHEET NO. 3 OF 12

ALIGNMENT HW - E CONEJO AVE HST UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2010	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - E CONEJO AVE HST UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2011	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - E CONEJO AVE HST UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT HW - E CONEJO AVE BNSF UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2040	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - E CONEJO AVE BNSF UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2041	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - E CONEJO AVE BNSF UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT HW - KINGS RIVER VIADUCT (AT-GRADE)

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1110	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - KINGS RIVER VIADUCT - KEY MAP	SHEET 1 OF 11	1
SV1111	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 11	
SV1112	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 11	
SV1113	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 11	
SV1114	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 11	
SV1115	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 11	
SV1116	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 11	
SV1117	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 11	
SV1118	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 11	
SV1119	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 11	
SV1120	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - KINGS RIVER VIADUCT - TYPICAL SECTIONS	SHEET 11 OF 11	

ALIGNMENT HW - GRANGEVILLE BLVD UNDERPASS (AT-GRADE)

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2025	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRANGEVILLE BLVD UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2026	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - GRANGEVILLE BLVD UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT HW - W LACEY BLVD UNDERPASS (AT-GRADE)

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2030	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - W LACEY BLVD UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2031	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - W LACEY BLVD UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT HW - 13TH AVE UNDERPASS (AT-GRADE)

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2035	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - 13TH AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2036	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - 13TH AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT HW - SJVR OVERPASS (AT-GRADE)

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2045	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - SJVR OVERPASS - KEY MAP	SHEET 1 OF 4	1
SV2046	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - SJVR OVERPASS - PLAN AND ELEVATION	SHEET 2 OF 4	
SV2047	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - SJVR OVERPASS - PLAN AND ELEVATION	SHEET 3 OF 4	
SV2048	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - SJVR OVERPASS - PLAN AND ELEVATION	SHEET 4 OF 4	

ALIGNMENT HW2 - E CONEJO AVE HST UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1000	HANFORD WEST ALTERNATIVE SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - E CONEJO AVE HST UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV1001	HANFORD WEST ALTERNATIVE SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - E CONEJO AVE HST UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT HW2 - E CONEJO AVE BNSF UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1002	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - E CONEJO AVE BNSF UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV1003	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - E CONEJO AVE BNSF UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT HW2 - KINGS RIVER VIADUCT (BELOW-GRADE)

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1010	HANFORD WEST ALTERNATIVE SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - KINGS RIVER VIADUCT - KEY MAP	SHEET 1 OF 11	1
SV1011	HANFORD WEST ALTERNATIVE SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 11	
SV1012	HANFORD WEST ALTERNATIVE SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 11	
SV1013	HANFORD WEST ALTERNATIVE SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 11	
SV1014	HANFORD WEST ALTERNATIVE SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 11	
SV1015	HANFORD WEST ALTERNATIVE SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 11	
SV1016	HANFORD WEST ALTERNATIVE SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 11	
SV1017	HANFORD WEST ALTERNATIVE SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 11	
SV1018	HANFORD WEST ALTERNATIVE SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 11	
SV1019	HANFORD WEST ALTERNATIVE SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - KINGS RIVER VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 11	
SV1020	HANFORD WEST ALTERNATIVE SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - KINGS RIVER VIADUCT - TYPICAL SECTIONS	SHEET 11 OF 11	

ALIGNMENT HW2 - GRANGEVILLE BLVD UNDERPASS (BELOW-GRADE)

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2027	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRANGEVILLE BLVD UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2028	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRANGEVILLE BLVD UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT HW2 - SJVR OVERPASS (BELOW-GRADE)

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2050	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - SJVR OVERPASS - KEY MAP	SHEET 1 OF 2	1
SV2051	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - SJVR OVERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K1 - IDAHO AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2060	KAWEAH SUBSECTION - ALIGNMENT K1 - IDAHO AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2061	KAWEAH SUBSECTION - ALIGNMENT K1 - IDAHO AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K1 - 12TH AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2065	KAWEAH SUBSECTION - ALIGNMENT K1 - 12TH AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2066	KAWEAH SUBSECTION - ALIGNMENT K1 - 12TH AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K1 - S 11TH AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2070	KAWEAH SUBSECTION - ALIGNMENT K1 - S 11TH AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2071	KAWEAH SUBSECTION - ALIGNMENT K1 - S 11TH AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K1 - SOUTH BNSF VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2080	KAWEAH SUBSECTION - ALIGNMENT K1 - SOUTH BNSF VIADUCT - KEY MAP	SHEET 1 OF 9	1
SV2081	KAWEAH SUBSECTION - ALIGNMENT K1 - SOUTH BNSF VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 9	
SV2082	KAWEAH SUBSECTION - ALIGNMENT K1 - SOUTH BNSF VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 9	
SV2083	KAWEAH SUBSECTION - ALIGNMENT K1 - SOUTH BNSF VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 9	
SV2084	KAWEAH SUBSECTION - ALIGNMENT K1 - SOUTH BNSF VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 9	
SV2085	KAWEAH SUBSECTION - ALIGNMENT K1 - SOUTH BNSF VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 9	
SV2086	KAWEAH SUBSECTION - ALIGNMENT K1 - SOUTH BNSF VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 9	
SV2087	KAWEAH SUBSECTION - ALIGNMENT K1 - SOUTH BNSF VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 9	
SV2088	KAWEAH SUBSECTION - ALIGNMENT K1 - SOUTH BNSF VIADUCT - TYPICAL SECTION	SHEET 9 OF 9	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY J. VALENZUELA
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

DRAFT 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HST STRUCTURES
INDEX OF SHEETS
SHEET 2 OF 8

CONTRACT NO. HSR 06-0003
DRAWING NO. SB2002
SCALE NO SCALE
SHEET NO. 4 OF 12

ALIGNMENT K1 - CROSS CREEK VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2100	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - KEY MAP	SHEET 1 OF 14	1
SV2101	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 14	
SV2102	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 14	
SV2103	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 14	
SV2104	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 14	
SV2105	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 14	
SV2106	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 14	
SV2107	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 14	
SV2108	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 14	
SV2109	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 14	
SV2110	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 14	
SV2111	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 14	
SV2112	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - TYPICAL SECTIONS	SHEET 13 OF 14	
SV2113	KAWEAH SUBSECTION - ALIGNMENT K1 - CROSS CREEK VIADUCT - TYPICAL SECTIONS	SHEET 14 OF 14	

ALIGNMENT K2 - IDAHO AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2120	KAWEAH SUBSECTION - ALIGNMENT K2 - IDAHO AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2121	KAWEAH SUBSECTION - ALIGNMENT K2 - IDAHO AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K2 - 12TH AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2125	KAWEAH SUBSECTION - ALIGNMENT K2 - 12TH AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2126	KAWEAH SUBSECTION - ALIGNMENT K2 - 12TH AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K2 - S 11TH AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2130	KAWEAH SUBSECTION - ALIGNMENT K2 - S 11TH AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2131	KAWEAH SUBSECTION - ALIGNMENT K2 - S 11TH AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K2 - KENT AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2135	KAWEAH SUBSECTION - ALIGNMENT K2 - KENT AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2136	KAWEAH SUBSECTION - ALIGNMENT K2 - KENT AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K2 - KANSAS AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2140	KAWEAH SUBSECTION - ALIGNMENT K2 - KANSAS AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV2141	KAWEAH SUBSECTION - ALIGNMENT K2 - KANSAS AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K2 - CROSS CREEK VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2150	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - KEY MAP	SHEET 1 OF 18	1
SV2151	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 18	
SV2152	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 18	
SV2153	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 18	
SV2154	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 18	
SV2155	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 18	
SV2156	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 18	
SV2157	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 18	
SV2158	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 18	
SV2159	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 18	
SV2160	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 18	
SV2161	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 18	
SV2162	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 13 OF 18	
SV2163	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 14 OF 18	
SV2164	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 15 OF 18	
SV2165	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 16 OF 18	
SV2166	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 17 OF 18	
SV2167	KAWEAH SUBSECTION - ALIGNMENT K2 - CROSS CREEK VIADUCT - TYPICAL SECTIONS	SHEET 18 OF 18	

ALIGNMENT K3 - STATE ROUTE 43 UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2540	KAWEAH SUBSECTION - ALIGNMENT K3 - STATE ROUTE 43 UNDERPASS - KEY MAP	SHEET 1 OF 3	1
SV2541	KAWEAH SUBSECTION - ALIGNMENT K3 - STATE ROUTE 43 UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 3	
SV2542	KAWEAH SUBSECTION - ALIGNMENT K3 - STATE ROUTE 43 UNDERPASS - TYPICAL SECTIONS	SHEET 3 OF 3	

ALIGNMENT K3 - CROSS CREEK VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2380	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - KEY MAP	SHEET 1 OF 18	1
SV2381	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 18	
SV2382	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 18	
SV2383	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 18	
SV2384	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 18	
SV2385	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 18	
SV2386	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 18	
SV2387	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 18	
SV2388	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 18	
SV2389	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 18	
SV2390	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 18	
SV2391	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 18	
SV2392	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 13 OF 18	
SV2393	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 14 OF 18	
SV2394	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 15 OF 18	
SV2395	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 16 OF 18	
SV2396	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - TYPICAL SECTIONS	SHEET 17 OF 18	
SV2397	KAWEAH SUBSECTION - ALIGNMENT K3 - CROSS CREEK VIADUCT - TYPICAL SECTIONS	SHEET 18 OF 18	

ALIGNMENT K4 - STATE ROUTE 43 UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2450	KAWEAH SUBSECTION - ALIGNMENT K4 - STATE ROUTE 43 UNDERPASS - KEY MAP	SHEET 1 OF 3	1
SV2451	KAWEAH SUBSECTION - ALIGNMENT K4 - STATE ROUTE 43 UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 3	
SV2452	KAWEAH SUBSECTION - ALIGNMENT K4 - STATE ROUTE 43 UNDERPASS - TYPICAL SECTIONS	SHEET 3 OF 3	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY J. VALENZUELA
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

DRAFT 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
California High-Speed Train

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HST STRUCTURES
INDEX OF SHEETS
SHEET 3 OF 8

CONTRACT NO. HSR 06-0003
DRAWING NO. SB2003
SCALE NO SCALE
SHEET NO. 5 OF 12

ALIGNMENT K4 - CROSS CREEK VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2460	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS CREEK VIADUCT - KEY MAP	SHEET 1 OF 13	1
SV2461	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 13	
SV2462	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 13	
SV2463	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 13	
SV2464	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 13	
SV2465	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 13	
SV2466	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 13	
SV2467	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 13	
SV2468	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 13	
SV2469	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 13	
SV2470	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 13	
SV2471	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS CREEK VIADUCT - TYPICAL SECTIONS	SHEET 12 OF 13	
SV2472	KAWEAH SUBSECTION - ALIGNMENT K4 - CROSS CREEK VIADUCT - TYPICAL SECTIONS	SHEET 13 OF 13	

ALIGNMENT K5 - IDAHO AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1150	KAWEAH SUBSECTION - ALIGNMENT K5 - IDAHO AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV1151	KAWEAH SUBSECTION - ALIGNMENT K5 - IDAHO AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K5 - 12TH AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1155	KAWEAH SUBSECTION - ALIGNMENT K5 - 12TH AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV1156	KAWEAH SUBSECTION - ALIGNMENT K5 - 12TH AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K5 - 11TH AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1160	KAWEAH SUBSECTION - ALIGNMENT K5 - 11TH AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV1161	KAWEAH SUBSECTION - ALIGNMENT K5 - 11TH AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K5 - BNSF VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1050	KAWEAH SUBSECTION - ALIGNMENT K5 - BNSF VIADUCT - KEY MAP	SHEET 1 OF 8	1
SV1052	KAWEAH SUBSECTION - ALIGNMENT K5 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 8	
SV1053	KAWEAH SUBSECTION - ALIGNMENT K5 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 8	
SV1054	KAWEAH SUBSECTION - ALIGNMENT K5 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 8	
SV1055	KAWEAH SUBSECTION - ALIGNMENT K5 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 8	
SV1056	KAWEAH SUBSECTION - ALIGNMENT K5 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 8	
SV1057	KAWEAH SUBSECTION - ALIGNMENT K5 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 8	
SV1058	KAWEAH SUBSECTION - ALIGNMENT K5 - BNSF VIADUCT - TYPICAL SECTIONS	SHEET 8 OF 8	

ALIGNMENT K5 - CROSS CREEK VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1070	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - KEY MAP	SHEET 1 OF 14	1
SV1071	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 14	
SV1072	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 14	
SV1073	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 14	
SV1074	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 14	
SV1075	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 14	
SV1076	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 14	
SV1077	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 14	
SV1078	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 14	
SV1079	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 14	
SV1080	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 14	
SV1081	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 14	
SV1082	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - TYPICAL SECTIONS	SHEET 13 OF 14	
SV1083	KAWEAH SUBSECTION - ALIGNMENT K5 - CROSS CREEK VIADUCT - TYPICAL SECTIONS	SHEET 14 OF 14	

ALIGNMENT K6 - IDAHO AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1165	KAWEAH SUBSECTION - ALIGNMENT K6 - IDAHO AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV1166	KAWEAH SUBSECTION - ALIGNMENT K6 - IDAHO AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K6 - 12TH AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1170	KAWEAH SUBSECTION - ALIGNMENT K6 - 12TH AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV1171	KAWEAH SUBSECTION - ALIGNMENT K6 - 12TH AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K6 - KENT AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1175	KAWEAH SUBSECTION - ALIGNMENT K6 - KENT AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV1176	KAWEAH SUBSECTION - ALIGNMENT K6 - KENT AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K6 - 11TH AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1180	KAWEAH SUBSECTION - ALIGNMENT K6 - 11TH AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV1181	KAWEAH SUBSECTION - ALIGNMENT K6 - 11TH AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K6 - KANSAS AVE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1185	KAWEAH SUBSECTION - ALIGNMENT K6 - KANAS AVE UNDERPASS - KEY MAP	SHEET 1 OF 2	1
SV1186	KAWEAH SUBSECTION - ALIGNMENT K6 - KANAS AVE UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT K6 - CROSS CREEK VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1080	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - KEY MAP	SHEET 1 OF 18	1
SV1081	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 18	
SV1082	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 18	
SV1083	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 18	
SV1084	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 18	
SV1085	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 18	
SV1086	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 18	
SV1087	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 18	
SV1088	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 18	
SV1089	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 18	
SV1090	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 18	
SV1091	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 18	
SV1092	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 13 OF 18	
SV1093	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 14 OF 18	
SV1094	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 15 OF 18	
SV1095	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 16 OF 18	
SV1096	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - PLAN AND ELEVATION	SHEET 17 OF 18	
SV1097	KAWEAH SUBSECTION - ALIGNMENT K6 - CROSS CREEK VIADUCT - TYPICAL SECTIONS	SHEET 18 OF 18	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY J. VALENZUELA
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HST STRUCTURES
INDEX OF SHEETS
SHEET 4 OF 8

CONTRACT NO. HSR 06-0003
DRAWING NO. SB2004
SCALE NO SCALE
SHEET NO. 6 OF 12

ALIGNMENT C1 - CORCORAN VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1370	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - KEY MAP	SHEET 1 OF 28	2
SV1371	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 28	
SV1372	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 28	
SV1373	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 28	
SV1374	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 28	
SV1375	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 28	
SV1376	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 28	
SV1377	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 28	
SV1378	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 28	
SV1379	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 28	
SV1380	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 28	
SV1381	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 28	
SV1382	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 13 OF 28	
SV1383	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 14 OF 28	
SV1384	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 15 OF 28	
SV1385	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 16 OF 28	
SV1386	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 17 OF 28	
SV1387	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 18 OF 28	
SV1388	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 19 OF 28	
SV1389	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 20 OF 28	
SV1390	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 21 OF 28	
SV1391	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 22 OF 28	
SV1392	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 23 OF 28	
SV1393	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 24 OF 28	
SV1394	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - PLAN AND ELEVATION	SHEET 25 OF 28	
SV1395	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - TYPICAL SECTIONS	SHEET 26 OF 28	
SV1396	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - TYPICAL SECTIONS	SHEET 27 OF 28	
SV1397	CORCORAN SUBSECTION - ALIGNMENT C1 - CORCORAN VIADUCT - TYPICAL SECTIONS	SHEET 28 OF 28	

ALIGNMENT C1 - TULE RIVER BRIDGE

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2350	CORCORAN SUBSECTION - ALIGNMENT C1 - TULE RIVER BRIDGE - KEY MAP	SHEET 1 OF 2	2
SV2355	CORCORAN SUBSECTION - ALIGNMENT C1 - TULE RIVER BRIDGE - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT C2 - WHITLEY AVENUE UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2445	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - WHITLEY AVENUE/SR137 UNDERPASS - KEY MAP	SHEET 1 OF 2	2
SV2446	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - WHITLEY AVENUE/SR137 UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT C2 - STATE ROUTE 43 BNSF VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2490	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STATE ROUTE 43 BNSF VIADUCT - KEY MAP	SHEET 1 OF 11	2
SV2491	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STATE ROUTE 43 BNSF VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 11	
SV2492	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STATE ROUTE 43 BNSF VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 11	
SV2493	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STATE ROUTE 43 BNSF VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 11	
SV2494	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STATE ROUTE 43 BNSF VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 11	
SV2495	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STATE ROUTE 43 BNSF VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 11	
SV2496	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STATE ROUTE 43 BNSF VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 11	
SV2497	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STATE ROUTE 43 BNSF VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 11	
SV2499	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STATE ROUTE 43 BNSF VIADUCT - TYPICAL SECTIONS	SHEET 9 OF 11	
SV2500	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STATE ROUTE 43 BNSF VIADUCT - TYPICAL SECTIONS	SHEET 10 OF 11	
SV2501	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STATE ROUTE 43 BNSF VIADUCT - TYPICAL SECTIONS	SHEET 11 OF 11	

ALIGNMENT C3 - BOSWELL SPUR VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2580	CORCORAN SUBSECTION - ALIGNMENT C3 - BOSWELL SPUR VIADUCT - KEY MAP	SHEET 1 OF 11	2
SV2581	CORCORAN SUBSECTION - ALIGNMENT C3 - BOSWELL SPUR VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 11	
SV2582	CORCORAN SUBSECTION - ALIGNMENT C3 - BOSWELL SPUR VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 11	

ALIGNMENT C3 - BOSWELL SPUR VIADUCT CONT'D.

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2583	CORCORAN SUBSECTION - ALIGNMENT C3 - BOSWELL SPUR VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 11	2
SV2584	CORCORAN SUBSECTION - ALIGNMENT C3 - BOSWELL SPUR VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 11	
SV2585	CORCORAN SUBSECTION - ALIGNMENT C3 - BOSWELL SPUR VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 11	
SV2586	CORCORAN SUBSECTION - ALIGNMENT C3 - BOSWELL SPUR VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 11	
SV2587	CORCORAN SUBSECTION - ALIGNMENT C3 - BOSWELL SPUR VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 11	
SV2588	CORCORAN SUBSECTION - ALIGNMENT C3 - BOSWELL SPUR VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 11	
SV2589	CORCORAN SUBSECTION - ALIGNMENT C3 - BOSWELL SPUR VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 11	
SV2590	CORCORAN SUBSECTION - ALIGNMENT C3 - BOSWELL SPUR VIADUCT - TYPICAL SECTIONS	SHEET 11 OF 11	

ALIGNMENT C3 - SWEET CANAL BRIDGE

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2595	CORCORAN SUBSECTION - ALIGNMENT C3 - SWEET CANAL BRIDGE - KEY MAP	SHEET 1 OF 2	2
SV2596	CORCORAN SUBSECTION - ALIGNMENT C3 - SWEET CANAL BRIDGE - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT C3 - TULE RIVER BRIDGE

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2598	CORCORAN SUBSECTION - ALIGNMENT C3 - TULE RIVER BRIDGE - KEY MAP	SHEET 1 OF 2	2
SV2599	CORCORAN SUBSECTION - ALIGNMENT C3 - TULE RIVER BRIDGE - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT A1 - DEER CREEK VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1500	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - DEER CREEK VIADUCT - KEY MAP	SHEET 1 OF 9	2
SV1501	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 9	
SV1502	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 9	
SV1503	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 9	
SV1504	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 9	
SV1505	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 9	
SV1506	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 9	
SV1507	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 9	
SV1508	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - DEER CREEK VIADUCT - TYPICAL SECTIONS	SHEET 9 OF 9	

ALIGNMENT A2 - DEER CREEK VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1530	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - DEER CREEK VIADUCT - KEY MAP	SHEET 1 OF 10	2
SV1531	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 10	
SV1532	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 10	
SV1533	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 10	
SV1534	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 10	
SV1535	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 10	
SV1536	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 10	
SV1537	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 10	
SV1538	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - DEER CREEK VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 10	
SV1539	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - DEER CREEK VIADUCT - TYPICAL SECTIONS	SHEET 10 OF 10	

ALIGNMENT A2 - NORTH COUNTY LINE CREEK BRIDGE

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1560	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - NORTH COUNTY LINE CREEK BRIDGE - KEY MAP	SHEET 1 OF 2	2
SV1561	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - NORTH COUNTY LINE CREEK BRIDGE - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT A2 - SOUTH COUNTY LINE CREEK BRIDGE

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1562	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - SOUTH COUNTY LINE CREEK BRIDGE - KEY MAP	SHEET 1 OF 2	
SV1563	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - SOUTH COUNTY LINE CREEK BRIDGE - PLAN AND ELEVATION	SHEET 2 OF 2	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY J. VALENZUELA
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HST STRUCTURES
INDEX OF SHEETS
SHEET 5 OF 8

CONTRACT NO. HSR 06-0003
DRAWING NO. SB2005
SCALE NO SCALE
SHEET NO. 7 OF 12

ALIGNMENT L1 - POSO CREEK BRIDGE

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1600	POSO CREEK SUBSECTION - ALIGNMENT L1 - POSO CREEK BRIDGE - KEY MAP	SHEET 1 OF 2	2
SV1601	POSO CREEK SUBSECTION - ALIGNMENT L1 - POSO CREEK BRIDGE - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT L2 - POSO CREEK VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1620	POSO CREEK SUBSECTION - ALIGNMENT L2 - POSO CREEK VIADUCT - KEY MAP	SHEET 1 OF 12	2
SV1622	POSO CREEK SUBSECTION - ALIGNMENT L2 - POSO CREEK VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 12	
SV1623	POSO CREEK SUBSECTION - ALIGNMENT L2 - POSO CREEK VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 12	
SV1624	POSO CREEK SUBSECTION - ALIGNMENT L2 - POSO CREEK VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 12	
SV1625	POSO CREEK SUBSECTION - ALIGNMENT L2 - POSO CREEK VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 12	
SV1626	POSO CREEK SUBSECTION - ALIGNMENT L2 - POSO CREEK VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 12	
SV1627	POSO CREEK SUBSECTION - ALIGNMENT L2 - POSO CREEK VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 12	
SV1628	POSO CREEK SUBSECTION - ALIGNMENT L2 - POSO CREEK VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 12	
SV1629	POSO CREEK SUBSECTION - ALIGNMENT L2 - POSO CREEK VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 12	
SV1630	POSO CREEK SUBSECTION - ALIGNMENT L2 - POSO CREEK VIADUCT - TYPICAL SECTIONS	SHEET 10 OF 12	
SV1631	POSO CREEK SUBSECTION - ALIGNMENT L2 - POSO CREEK VIADUCT - TYPICAL SECTIONS	SHEET 11 OF 12	
SV1632	POSO CREEK SUBSECTION - ALIGNMENT L2 - POSO CREEK VIADUCT - TYPICAL SECTIONS	SHEET 12 OF 12	

ALIGNMENT L2 - WHISLER ROAD UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1635	POSO CREEK SUBSECTION - ALIGNMENT L2 - WHISLER ROAD UNDERPASS - KEY MAP	SHEET 1 OF 2	2
SV1636	POSO CREEK SUBSECTION - ALIGNMENT L2 - WHISLER ROAD UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT L3 - POSO CREEK BRIDGE

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1640	POSO CREEK SUBSECTION - ALIGNMENT L3 - POSO CREEK BRIDGE - KEY MAP	SHEET 1 OF 2	2
SV1641	POSO CREEK SUBSECTION - ALIGNMENT L3 - POSO CREEK BRIDGE - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT L4 - POSO CREEK BRIDGE

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1675	POSO CREEK SUBSECTION - ALIGNMENT L4 - POSO CREEK BRIDGE - KEY MAP	SHEET 1 OF 2	2
SV1676	POSO CREEK SUBSECTION - ALIGNMENT L4 - POSO CREEK BRIDGE - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT L4 - BNSF VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1660	POSO CREEK SUBSECTION - ALIGNMENT L4 - BNSF VIADUCT - KEY MAP	SHEET 1 OF 12	2
SV1661	POSO CREEK SUBSECTION - ALIGNMENT L4 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 12	
SV1662	POSO CREEK SUBSECTION - ALIGNMENT L4 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 12	
SV1663	POSO CREEK SUBSECTION - ALIGNMENT L4 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 12	
SV1664	POSO CREEK SUBSECTION - ALIGNMENT L4 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 12	
SV1665	POSO CREEK SUBSECTION - ALIGNMENT L4 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 12	
SV1666	POSO CREEK SUBSECTION - ALIGNMENT L4 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 12	
SV1667	POSO CREEK SUBSECTION - ALIGNMENT L4 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 12	
SV1668	POSO CREEK SUBSECTION - ALIGNMENT L4 - BNSF VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 12	
SV1669	POSO CREEK SUBSECTION - ALIGNMENT L4 - BNSF VIADUCT - TYPICAL SECTIONS	SHEET 10 OF 12	
SV1670	POSO CREEK SUBSECTION - ALIGNMENT L4 - BNSF VIADUCT - TYPICAL SECTIONS	SHEET 11 OF 12	
SV1671	POSO CREEK SUBSECTION - ALIGNMENT L4 - BNSF VIADUCT - TYPICAL SECTIONS	SHEET 12 OF 12	

ALIGNMENT WS1 - STATE ROUTE 46 UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1698	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STATE ROUTE 46 UNDERPASS - KEY MAP	SHEET 1 OF 2	2
SV1699	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STATE ROUTE 46 UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT WS1 - WASCO VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1700	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - KEY MAP	SHEET 1 OF 15	2
SV1703	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 15	
SV1704	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 15	
SV1705	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 15	
SV1706	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 15	
SV1707	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 15	
SV1708	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 15	
SV1709	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 15	
SV1710	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 15	
SV1711	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 15	
SV1712	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 15	
SV1713	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 15	
SV1714	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 13 OF 15	
SV1715	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 14 OF 15	
SV1716	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - TYPICAL SECTIONS	SHEET 15 OF 15	

ALIGNMENT WS1 - KIMBERLINA ROAD UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1720	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - KIMBERLINA ROAD UNDERPASS - KEY MAP	SHEET 1 OF 3	2
SV1721	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - KIMBERLINA ROAD UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 3	
SV1722	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - KIMBERLINA ROAD BNSF UNDERPASS - PLAN AND ELEVATION	SHEET 3 OF 3	

ALIGNMENT WS1 - SHAFTER VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1750	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - KEY MAP	SHEET 1 OF 20	2
SV1756	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 20	
SV1757	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 20	
SV1758	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 20	
SV1759	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 20	
SV1760	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 20	
SV1761	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 20	
SV1762	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 20	
SV1763	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 20	
SV1764	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 20	
SV1765	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 20	
SV1766	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 20	
SV1767	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 13 OF 20	
SV1768	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 14 OF 20	
SV1769	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 15 OF 20	
SV1770	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 16 OF 20	
SV1771	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 17 OF 20	
SV1772	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - PLAN AND ELEVATION	SHEET 18 OF 20	
SV1773	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - TYPICAL SECTIONS	SHEET 19 OF 20	
SV1774	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - SHAFTER VIADUCT - TYPICAL SECTIONS	SHEET 20 OF 20	

ALIGNMENT WS2 - WASCO VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1870	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - KEY MAP	SHEET 1 OF 15	2
SV1873	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 15	
SV1874	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 15	
SV1875	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 15	
SV1876	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 15	
SV1877	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 15	
SV1878	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 15	
SV1879	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 15	
SV1880	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 15	
SV1881	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 15	
SV1882	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 15	
SV1883	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 15	
SV1884	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - TYPICAL SECTIONS	SHEET 13 OF 15	
SV1885	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - TYPICAL SECTIONS	SHEET 14 OF 15	
SV1886	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - WASCO VIADUCT - TYPICAL SECTIONS	SHEET 15 OF 15	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY J. VALENZUELA
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HST STRUCTURES
INDEX OF SHEETS
SHEET 6 OF 8

CONTRACT NO. HSR 06-0003
DRAWING NO. SB2006
SCALE NO SCALE
SHEET NO. 8 OF 12

ALIGNMENT B1 - HAGEMAN ROAD UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1810	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - HAGEMAN ROAD UNDERPASS - KEY MAP	SHEET 1 OF 2	2
SV1811	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - HAGEMAN ROAD UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT B1 - ALLEN ROAD UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1812	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ALLEN ROAD UNDERPASS - KEY MAP	SHEET 1 OF 2	2
SV1813	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ALLEN ROAD UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT B1 - BAKERSFIELD VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2600	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - KEY MAP	SHEET 1 OF 57	2
SV2601	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 57	
SV2602	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 57	
SV2603	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 57	
SV2604	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 57	
SV2605	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 57	
SV2606	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 57	
SV2607	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 57	
SV2608	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 57	
SV2609	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 57	
SV2610	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 57	
SV2611	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 57	
SV2612	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 13 OF 57	
SV2613	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 14 OF 57	
SV2614	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 15 OF 57	
SV2615	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 16 OF 57	
SV2616	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 17 OF 57	
SV2617	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 18 OF 57	
SV2618	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 19 OF 57	
SV2619	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 20 OF 57	
SV2620	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 21 OF 57	
SV2621	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 22 OF 57	
SV2622	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 23 OF 57	
SV2623	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 24 OF 57	
SV2624	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 25 OF 57	
SV2625	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 26 OF 57	
SV2626	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 27 OF 57	
SV2627	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 28 OF 57	
SV2628	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 29 OF 57	
SV2629	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 30 OF 57	
SV2630	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 31 OF 57	
SV2631	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 32 OF 57	
SV2632	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 33 OF 57	
SV2633	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 34 OF 57	
SV2634	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 35 OF 57	
SV2635	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 36 OF 57	
SV2636	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 37 OF 57	
SV2637	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 38 OF 57	
SV2638	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 39 OF 57	
SV2639	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 40 OF 57	
SV2640	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 41 OF 57	
SV2641	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 42 OF 57	
SV2642	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 43 OF 57	
SV2643	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 44 OF 57	
SV2644	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 45 OF 57	
SV2645	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 46 OF 57	
SV2646	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 47 OF 57	
SV2647	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 48 OF 57	
SV2648	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 49 OF 57	
SV2649	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 50 OF 57	
SV2650	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 51 OF 57	

ALIGNMENT B1 - HAGEMAN ROAD UNDERPASS CONT'D.

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2651	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 52 OF 57	2
SV2652	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 53 OF 57	
SV2653	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 54 OF 57	
SV2654	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 55 OF 57	
SV2655	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 56 OF 57	
SV2656	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 57 OF 57	

ALIGNMENT B2 - HAGEMAN ROAD UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1890	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - HAGEMAN ROAD UNDERPASS - KEY MAP	SHEET 1 OF 2	2
SV1891	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - HAGEMAN ROAD UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT B2 - ALLEN ROAD UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV1892	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ALLEN ROAD UNDERPASS - KEY MAP	SHEET 1 OF 2	2
SV1893	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ALLEN ROAD UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT B2 - BAKERSFIELD VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2700	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - KEY MAP	SHEET 1 OF 57	2
SV2701	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 57	
SV2702	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 57	
SV2703	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 57	
SV2704	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 57	
SV2705	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 57	
SV2706	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 57	
SV2707	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 57	
SV2708	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 57	
SV2709	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 57	
SV2710	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 57	
SV2711	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 57	
SV2712	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 13 OF 57	
SV2713	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 14 OF 57	
SV2714	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 15 OF 57	
SV2715	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 16 OF 57	
SV2716	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 17 OF 57	
SV2717	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 18 OF 57	
SV2718	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 19 OF 57	
SV2719	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 20 OF 57	
SV2720	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 21 OF 57	
SV2721	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 22 OF 57	
SV2722	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 23 OF 57	
SV2723	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 24 OF 57	
SV2724	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 25 OF 57	
SV2725	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 26 OF 57	
SV2726	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 27 OF 57	
SV2727	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 28 OF 57	
SV2728	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 29 OF 57	
SV2729	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 30 OF 57	
SV2730	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 31 OF 57	
SV2731	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 32 OF 57	
SV2732	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 33 OF 57	
SV2733	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 34 OF 57	
SV2734	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 35 OF 57	
SV2735	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 36 OF 57	
SV2736	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 37 OF 57	
SV2737	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 38 OF 57	
SV2738	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 39 OF 57	
SV2739	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 40 OF 57	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY J. VALENZUELA
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

DRAFT 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HST STRUCTURES
INDEX OF SHEETS
SHEET 7 OF 8

CONTRACT NO. HSR 06-0003
DRAWING NO. SB2007
SCALE NO SCALE
SHEET NO. 9 OF 12

ALIGNMENT B2 - BAKERSFIELD VIADUCT CONT'D.

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2740	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 41 OF 57	2
SV2741	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 42 OF 57	
SV2742	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 43 OF 57	
SV2743	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 44 OF 57	
SV2744	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 45 OF 57	
SV2745	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 46 OF 57	
SV2746	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 47 OF 57	
SV2747	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 48 OF 57	
SV2748	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 49 OF 57	
SV2749	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 50 OF 57	
SV2750	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 51 OF 57	
SV2751	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 52 OF 57	
SV2752	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 53 OF 57	
SV2753	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 54 OF 57	
SV2754	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 55 OF 57	
SV2755	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 56 OF 57	
SV2756	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 57 OF 57	

ALIGNMENT B3 - HAGEMAN ROAD UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2790	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - HAGEMAN ROAD UNDERPASS - KEY MAP	SHEET 1 OF 2	2
SV2791	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - HAGEMAN ROAD UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT B3 - ALLEN ROAD UNDERPASS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2792	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ALLEN ROAD UNDERPASS - KEY MAP	SHEET 1 OF 2	2
SV2793	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ALLEN ROAD UNDERPASS - PLAN AND ELEVATION	SHEET 2 OF 2	

ALIGNMENT B3 - BAKERSFIELD VIADUCT

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SV2800	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - KEY MAP	SHEET 1 OF 57	2
SV2801	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 2 OF 57	
SV2802	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 3 OF 57	
SV2803	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 4 OF 57	
SV2804	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 5 OF 57	
SV2805	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 6 OF 57	
SV2806	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 7 OF 57	
SV2807	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 8 OF 57	
SV2808	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 9 OF 57	
SV2809	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 10 OF 57	
SV2810	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 11 OF 57	
SV2811	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 12 OF 57	
SV2812	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 13 OF 57	
SV2813	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 14 OF 57	
SV2814	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 15 OF 57	
SV2815	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 16 OF 57	
SV2816	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 17 OF 57	
SV2817	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 18 OF 57	
SV2818	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 19 OF 57	
SV2819	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 20 OF 57	
SV2820	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 21 OF 57	
SV2821	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 22 OF 57	
SV2822	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 23 OF 57	
SV2823	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 24 OF 57	
SV2824	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 25 OF 57	
SV2825	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 26 OF 57	
SV2826	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 27 OF 57	
SV2827	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 28 OF 57	
SV2828	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 29 OF 57	
SV2829	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 30 OF 57	
SV2830	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 31 OF 57	
SV2831	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 32 OF 57	
SV2832	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 33 OF 57	
SV2833	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 34 OF 57	
SV2834	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 35 OF 57	
SV2835	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 36 OF 57	
SV2836	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 37 OF 57	
SV2837	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 38 OF 57	
SV2838	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 39 OF 57	
SV2839	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 40 OF 57	
SV2840	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 41 OF 57	
SV2841	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 42 OF 57	
SV2842	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 43 OF 57	
SV2843	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 44 OF 57	
SV2844	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 45 OF 57	
SV2845	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 46 OF 57	
SV2846	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 47 OF 57	
SV2847	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 48 OF 57	
SV2848	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 49 OF 57	
SV2849	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 50 OF 57	
SV2850	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 51 OF 57	
SV2851	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - PLAN AND ELEVATION	SHEET 52 OF 57	
SV2852	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 53 OF 57	
SV2853	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 54 OF 57	
SV2854	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 55 OF 57	
SV2855	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 56 OF 57	
SV2856	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - BAKERSFIELD VIADUCT - TYPICAL SECTIONS	SHEET 57 OF 57	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY J. VALENZUELA
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

DRAFT 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HST STRUCTURES
INDEX OF SHEETS
SHEET 8 OF 8

CONTRACT NO. HSR 06-0003
DRAWING NO. SB2008
SCALE NO SCALE
SHEET NO. 10 OF 12

A

AB	AGGREGATE BASE
ABBC	ASBESTOS BONDED BITUMINOUS COATED
ABM	AIR-BLOWN MORTAR
ABN	ABANDON
ABUT	ABUTMENT
AC	ASPHALT CONCRETE
ACB	ASPHALT CONCRETE BASE
ACP	ASBESTOS CEMENT PIPE
ADL	ADDED DEAD LOAD
ADJ	ADJUST
AFES	ALTERNATIVE FLARED END SECTION
AHD	AHEAD
ALT	ALTERNATE
AM	TIME FROM MIDNIGHT TO NOON
AP	ALTERNATIVE PIPE
APC	ALTERNATIVE PIPE CULVERT
APPROX	APPROXIMATE
APU	ALTERNATIVE PIPE UNDERDRAIN
ARS	ACCELERATION RESPONSE SPECTRUM
AR	ACCESS RESTRICTION
AS	AGGREGATE SUBBASE
ASRP	ALUMINUM SPIRAL RIB PIPE
ASSY	ASSEMBLY
ATPB	ASPHALT TREATED PERMEABLE BASE
ATPM	ASPHALT TREATED PERMEABLE MATERIAL
AVE	AVENUE
AVG	AVERAGE
@	AT

B

BAGR	BRIDGE APPROACH GUARD RAILING
BB	BEGINNING OF BRIDGE
BC	BEGIN HORIZONTAL CURVE
BCC	BALANCED CANTILEVER CONSTRUCTION
BCR	BEGIN CURB RETURN
BEG	BEGIN
BIT CTD	BITUMINOUS COATED
BK	BACK
BKF	BACKFILL
BLDG	BUILDING
BLM	BRIDGE-LOG MILE
BLVD	BOULEVARD
BM	BENCH MARK
BND	BOUND
BNSF	BURLINGTON NORTH & SANTA FE
BOT	BOTTOM
BR	BRIDGE
BRG	BEARING
BTU	BRITISH THERMAL UNIT
BVC	BEGIN VERTICAL CURVE
BW	BARBED WIRE

C

CAA	CABLE ANCHOR ASSEMBLY
CAP	CORRUGATED ALUMINUM PIPE
CAPA	CORRUGATED ALUMINUM PIPE ARCH
CAS	CONSTRUCTION AREA SIGN
CB	CONCRETE BARRIER
CBW	CONCRETE BLOCK WALL
C-C	CENTER TO CENTER

C CONTINUED

CHSRA	CALIFORNIA HIGH SPEED RAIL AUTHORITY
CHST	CALIFORNIA HIGH SPEED TRAIN
CHSR	CALIFORNIA HIGH SPEED RAIL
CG	CENTER OF GRAVITY
CHNL	CHANNEL
CI	CAST IRON
CIDH	CAST-IN-DRILLED-HOLE
CIP,C-I-P	CAST-IN-PLACE, CAST IRON PIPE
CIPCP	CAST IN PLACE CONCRETE PIPE
CISS	CAST-IN-STEEL-SHELL
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE, CLASS
CL2	CLASS 2
CL-6	CHAIN LINK FENCE (6 FT)
CLR	CLEAR, CLEARANCE
CM	CORRUGATED METAL
CMP	CORRUGATED METAL PIPE
CO	COUNTY
COL	COLUMN
CONC	CONCRETE
COND	CONDUIT
CONN	CONNECTOR
CONST	CONSTRUCT, CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CP	CLEARANCE POINT
CR	CREEK
CRCP	CONTINUOUS REINFORCED CONCRETE PAVEMENT
CRSP	CONCRETED ROCK SLOPE PROTECTION
CS	CURVE TO SPIRAL
CSP	CORRUGATED STEEL PIPE
CSPA	CORRUGATED STEEL PIPE ARCH
CTB	CEMENT TREATED BASE
CTPB	CEMENT TREATED PERMEABLE BASE
CTPM	CEMENT TREATED PERMEABLE MATERIAL
CTRS	CENTERS
CVFPB	CENTRAL VALLEY FLOOD PROTECTION BOARD
CULV	CULVERT
℄	CENTERLINE

D

D	DEPTH
DD	DOWNDRAIN, DIRECTIVE DRILLING
DBL	DOUBLE
DEG	DEGREE
DEL	DELINEATOR
DET	DETAIL, DETOUR
DF	DOUGLAS FIR
DI	DRAINAGE INLET, DROP INLET
DIA	DIAMETER
DIAPH	DIAPHRAGM
DIST	DISTANCE, DISTRICT
DMBB	DOUBLE METAL BEAM BARRIER
DR	DRIVE
DTBB	DOUBLE THRIE BEAM BARRIER
DWY	DRIVEWAY

E

E	EAST, EASTING
EA	ACTUAL SUPERELEVATION
EU	UNBALANCED SUPERELEVATION

E CONTINUED

EASE	EASEMENT
EB	END OF BRIDGE, EASTBOUND
EC	END HORIZONTAL CURVE
ECR	END CURB RETURN
ED	EDGE DRAIN
EDC	EDGE DRAIN CLEANOUT
EDO	EDGE DRAIN OUTLET
EDV	EDGE DRAIN VENT
ELEC	ELECTROLIER
ELECT	ELECTRIC
ELEV	ELEVATION
EMB	EMBANKMENT
ENGR	ENGINEER
EOD	EDGE OF DECK
EP	EDGE OF PAVEMENT
EQ	EQUATION, EQUAL
ES	EDGE OF SHOULDER
ETW	EDGE OF TRAVELED WAY
EVC	END VERTICAL CURVE
EW	ENDWALL
EXC	EXCAVATION
EXIST, EX.	EXISTING
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXWY	EXPRESSWAY
EXT	EXTERIOR

F

F & C	FRAME AND COVER
F & G	FRAME AND GRATE
FB	FLOOR BEAM
F-B	FRESNO TO BAKERSFIELD
FDN	FOUNDATION
FEBT	FACING EASTBOUND TRAFFIC
FES	FLARED END SECTION
FF	FILTER FABRIC
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIG	FIGURE
FL	FLOW LINE
FNBT	FACING NORTHBOUND TRAFFIC
FOC	FACE OF CONCRETE
FR RD	FRONTAGE ROAD
FS	FAR SIDE, FINISHED SURFACE
FSBT	FACING SOUTHBOUND TRAFFIC
FT	FOOT, FEET
FTG	FOOTING
FWBT	FACING WESTBOUND TRAFFIC
FWY	FREEWAY
FPLM	FULL SPAN PRECAST LAUNCHING METHOD

G

G	ACCELERATION DUE TO GRAVITY
GA	GAGE
GALV	GALVANIZED
GP	GRADING PLANE
GR	GUARD RAILING
GSP	GALVANIZED STEEL PIPE
GTR	GUTTER

H

H	HEIGHT
HR	HOUR
HD	HORIZONTAL DRAIN
HDWL	HEADWALL
HEX HD	HEXAGONAL HEAD
HMA	HOT MIXED ASPHALT
HORIZ	HORIZONTAL
HP	HINGE POINT, HORSEPOWER
HPS	HIGH PERFORMANCE STEEL
HS	HIGH STRENGTH
HST	HIGH SPEED TRAIN
HSR	HIGH SPEED RAIL
HW	HEADWALL, HIGH WATER
HWM	HIGH WATER MARK
HWY	HIGHWAY

I

IB	IMPORTED BORROW
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH, INCHES
INT	INTERIOR
INV	INVERT
IRR	IRRIGATION

J

JCT	JUNCTION
JP	JOINT POLE
JPCP	JOINTED PLAIN CONCRETE PAVEMENT
JS	JUNCTION STRUCTURE
JT	JOINT

K

K	DISTANCE TO ACHIEVE 1% GRADE CHANGE

L

L	LENGTH
LAT	LATITUDE
LCB	LEAN CONCRETE BASE
LN	LANE
LOC	LOCATION
LOL	LAYOUT LINE
LONG	LONGITUDE
LONGIT	LONGITUDINAL
LS	LENGTH OF SPIRAL
LC	LENGTH OF CURVE
LT	LEFT

M

MAINT	MAINTENANCE
MAX	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
MED	MEDIAN
M-F	MERCED TO FRESNO
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MISC I & S	MISCELLANEOUS IRON AND STEEL
MKR	MARKER
M/L	MAIN LINE (RAILWAY)

M CONTINUED

MOD	MODIFIED, MODIFY
MON	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MPH	MILES PER HOUR
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EARTH
MTL	MATERIAL
MSS	MOVING SCAFFOLDING SYSTEM

N

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

O

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

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PED	PEDESTRIAN
PED OC	PEDESTRIAN OVERCROSSING
PED UC	PEDESTRIAN UNDERCROSSING
PERM MTL	PERMEABLE MATERIAL
PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
ℙ,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POB	POINT OF BEGINNING
POC	POINT OF HORIZONTAL CURVE
POE	POINT OF ENDING
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY D. HUNT
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
GENERAL
ABBREVIATIONS AND LEGENDS
SHEET 1 OF 2

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0010
SCALE NO SCALE
SHEET NO. 11 OF 12

P CONTINUED

PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED, PARALLEL STATION
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVP	MAINTENANCE VEHICLE PULLOUT

Q

QTY	QUANTITY

R

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

S

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

S CONTINUED

SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
SR	STATE ROUTE
ST	STREET, SPIRAL TO TANGENT
STA	STATION
STBB	SINGLE THRIE BEAM BARRIER
STD	STANDARD
STR	STRUCTURE
SRS	STAND ALONE RADIO SITE
SURF	SURFACING
SW	SIDEWALK, SOUND WALL
SWR	SEWER
SWS	SWITCHING STATION
SYM	SYMMETRICAL
S4S	SURFACE 4 SIDES
SJVR	SAN JOAQUIN VALLEY RAILROAD

T

T	SEMI-TANGENT
TAB	TABLET
TAN	TANGENT
TBB	THRIE BEAM BARRIER
TBR	TIMBER
TC	TOP OF CURB, TANGENT TO CURVE
TCB	TRAFFIC CONTROL BOX
TEL	TELEPHONE
TEMP	TEMPORARY
TG	TOP OF GRADE
TOT	TOTAL
TM	TECHNICAL MEMORANDUM
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
TPSS	TRACTION POWER SUPPLY STATION
TRANS	TRANSITION, TRANSVERSE
TS	TRAFFIC SIGNAL, TUBULAR STEEL, TANGET TO SPIRAL
TYP	TYPICAL
TOR	TOP OF RAIL

U

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

V

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

W

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

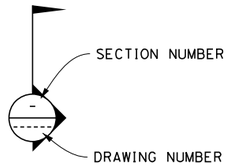
X

X SEC	CROSS SECTION
XING	CROSSING

Y

YR	YEAR
YRS	YEARS

LEGEND



—— -E —— PROPOSED ELECTRICITY LINE

—— -e —— EXISTING ELECTRICITY LINE

—— -e—(oh)— EXISTING OVERHEAD ELECTRICITY LINE

—— -E—(OH)— PROPOSED OVERHEAD ELECTRICTY LINE

——— — — — PROPOSED HST RIGHT OF WAY

— — — — — PROPOSED HST TRACK CENTERLINE

RETAINING WALL

TOE OF SLOPE / TOP OF CUT

CONTROL LINE EXAMPLE "A" LINE

255+00 260+00 265+00

OR TRACK (PLAN AND ELEVATION)

REL TRACK TO BE REMOVED AND RELOCATED PER BNSF

REMOVE BASE & SURFACING

SOUND BARRIER (POTENTIAL)

DIRECTION OF FLOW

WATER SURFACE

GENERAL NOTES

1. TRACK PROFILE IS DESIGNED AS TOP OF THE LOW RAIL. VERTICAL CLEARANCE REQUIREMENTS ARE MEASURED FROM THE TOP OF THE HIGH RAIL ON SUPERELEVATED TRACK. THE CLEARANCE ENVELOPES SHOWN DEMONSTRATE THE MINIMUM CLEARANCE REQUIREMENTS.

2. MINIMUM VERTICAL CLEARANCE REQUIREMENTS TO CANALS AND DITCHES ARE NOT KNOWN. FURTHER CONSULTATION WITH THE WATERCOURSE OWNERS WILL BE REQUIRED TO DETERMINE NECESSARY CLEARANCES.

3. THE FOLLOWING ARE ROADWAY DESIGN STANDARDS AND GUIDELINES:
   A. CALTRANS HIGHWAY DESIGN MANUAL (2012)
   B. AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (2011)
   C. AASHTO ROADSIDE DESIGN GUIDE (2011)
   D. APPLICABLE LOCAL DESIGN STANDARD AND GUIDELINES (I.E., CITY OF FRESNO)

4. THE FEMA FLOODPLAIN BOUNDARIES ARE CALLED OUT AS "LIMIT OF 100YR FEMA FLOODPLAIN". THE LIMITS OF THE MODELED 100 YEAR WATER SURFACE ELEVATIONS (WSE) ARE APPROXIMATE AND ARE MARKED WITH THE NAME OF THE WATERBODY ASSOCIATED WITH THE MODELED FLOODING, E.G. "LIMIT OF POSO CREEK FLOODPLAIN".

5. THE STRUCTURE DESIGN ASSUMES THAT THE DEPTH FROM TOR TO TOP OF DECK IS 2'-6" THROUGHOUT. HOWEVER, WHERE BALLASTED TRACK FORM IS USED, THE HEIGHT FROM TOR TO DECK SHALL BE 2'-9" PLUS AN ALLOWANCE FOR WATERPROOF MEMBRANE, AND PROTECTION LAYER IF REQUIRED. FOR SLAB TRACKFORM, THE HEIGHT FROM TOR TO DECK SHALL BE 2'-6" PLUS AN ALLOWANCE FOR WATERPROOF MEMBRANE AND PROTECTION LAYER IF REQUIRED.

6. WHERE THE VERTICAL ALIGNMENT GRADE IS LESS THAN 0.5% THE UPPER SURFACE OF THE VIADUCT STRUCTURE SHALL BE PROFILED TO GIVE A MINIMUM LONGITUDINAL FALL OF 0.5%. TYPICALLY FOR A SPAN OF 120'-00" ON A 0% GRADE SECTION OF VIADUCT THIS COULD BE ACHIEVED BY MODIFYING THE CROSS SLOPE OF THE GIRDER LINEARLY BETWEEN 0.8% AT MID-SPAN TO 2% AT EACH END.

7. WHEN LATERAL SEPARATION BETWEEN THE CONVENTIONAL RAILROAD AND HST SYSTEM IS LESS THAN 102', A SITE SPECIFIC HAZARD ANALYSIS WILL BE CONDUCTED TO DETERMINE WHAT SPECIFIC COLLISION PROTECTION MEASURES MAY NEED TO BE IMPLEMENTED.

8. RIP-RAP PROTECTION IS REQUIRED FOR EMBANKMENTS WITHIN FEMA SPECIAL FLOOD HAZARD ZONES, IN ACCORDANCE WITH DESIGN CRITERIA.

9. HST ALIGNMENT CONTROL LINE IS DESIGNED AS THE CENTERLINE BETWEEN THE TWO MAINLINE TRACKS.

10. TRACK FORM USED IN TYPICAL SECTIONS IS INDICATIVE.

DIRECTION OF TRAFFIC

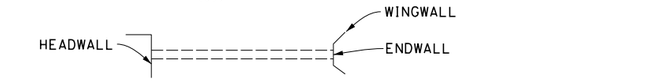
POINT OF MINIMUM VERTICAL CLEARANCE
ROAD CLOSURE (ROADWAYS)

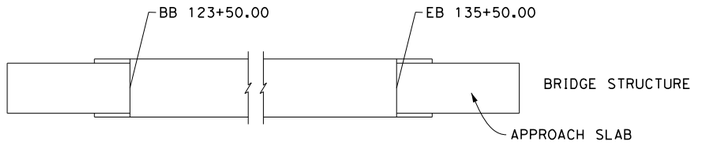
1 LINE DATA

1 3 CURVE DATA (ALIGNMENTS)
CURVE DATA (STRUCTURES)

EXISTING HIGH VOLTAGE TOWER FOOTPRINT

OG / ORIGINAL GROUND





REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY D. HUNT
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
GENERAL
ABBREVIATIONS AND LEGENDS
SHEET 2 OF 2

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0011
SCALE NO SCALE
SHEET NO. 12 OF 12

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

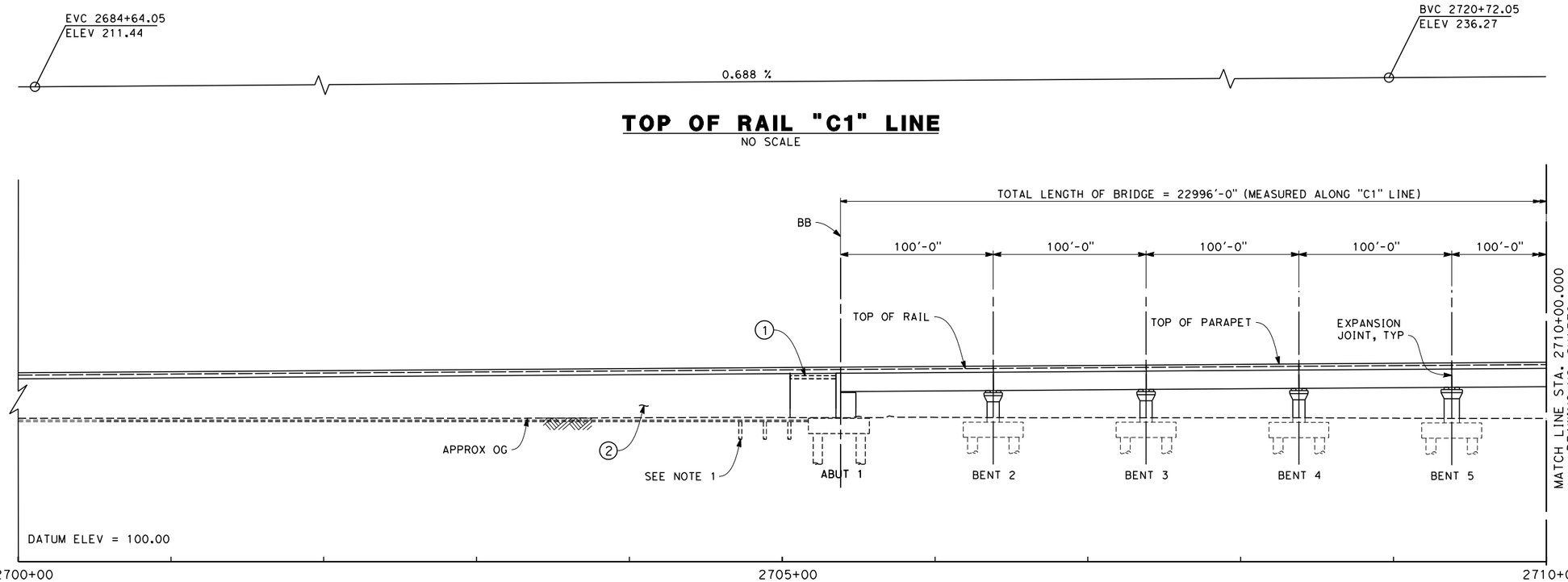
URS | HMM | ARUP
California High-Speed Train

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1370
SCALE AS SHOWN
SHEET NO. 1 OF 28

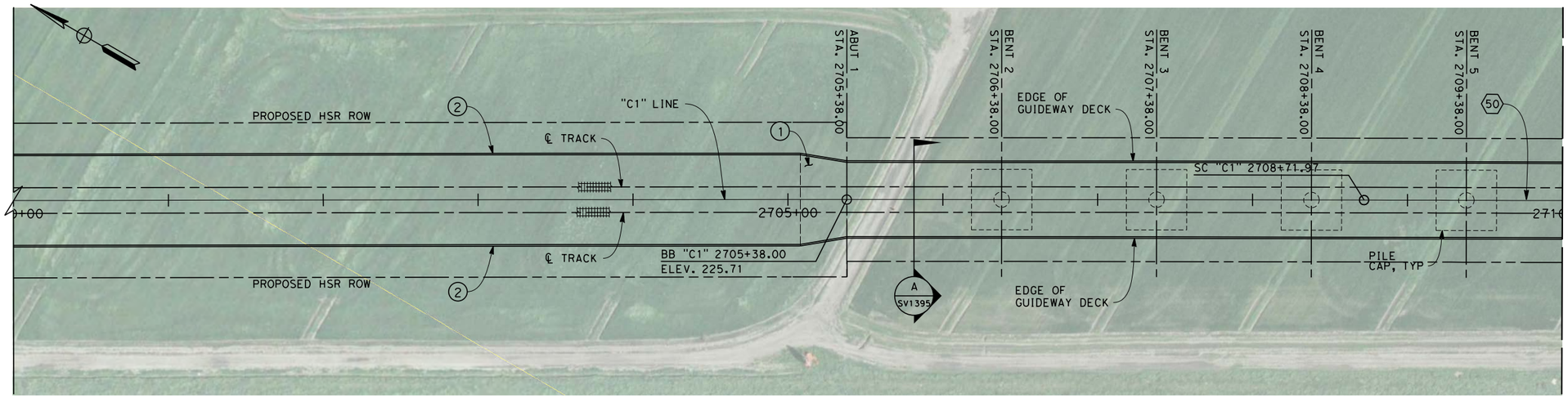


TOP OF RAIL "C1" LINE

NO SCALE

ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   - SIMPLE SPANS - MSS OR FLPM
   - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   - STEEL TRUSS - INSITU, SLID OR LAUNCHED
   - ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(50)

R = 140000.00'
Δ = 01° 33' 28.8"
T = 1903.6'
L = 3806.9'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

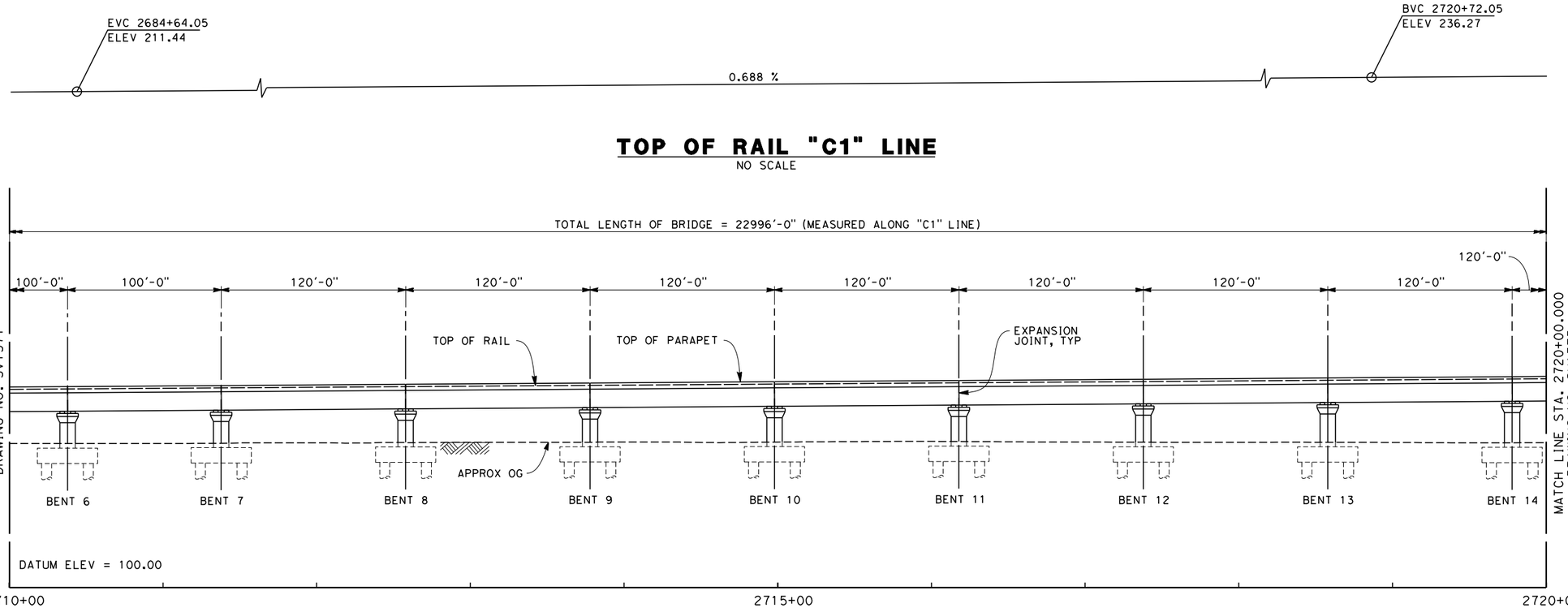
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

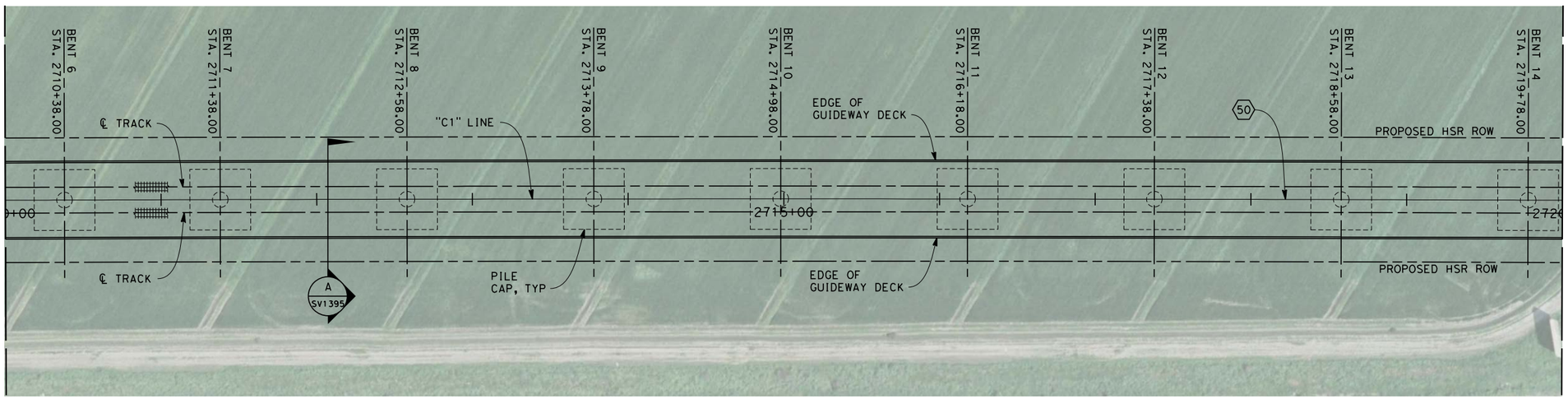
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1371
SCALE AS SHOWN
SHEET NO. 2 OF 28



TOP OF RAIL "C1" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(50)

R = 140000.00'
Δ = 01° 33' 28.8"
T = 1903.6'
L = 3806.9'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

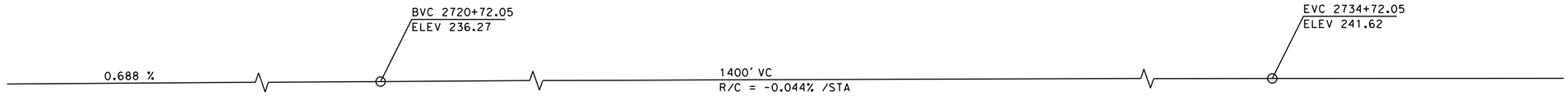
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

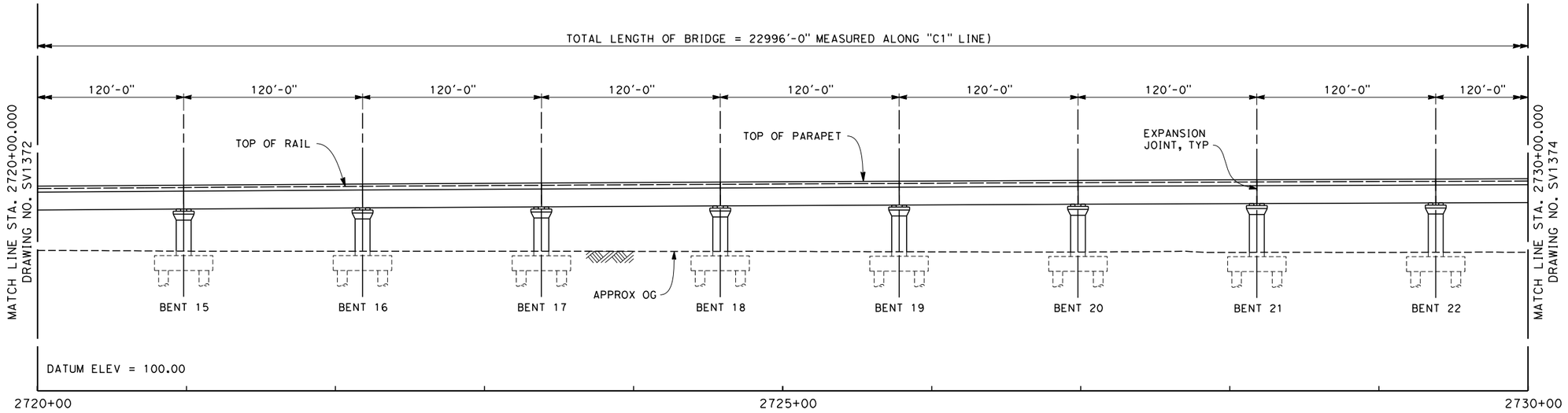
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

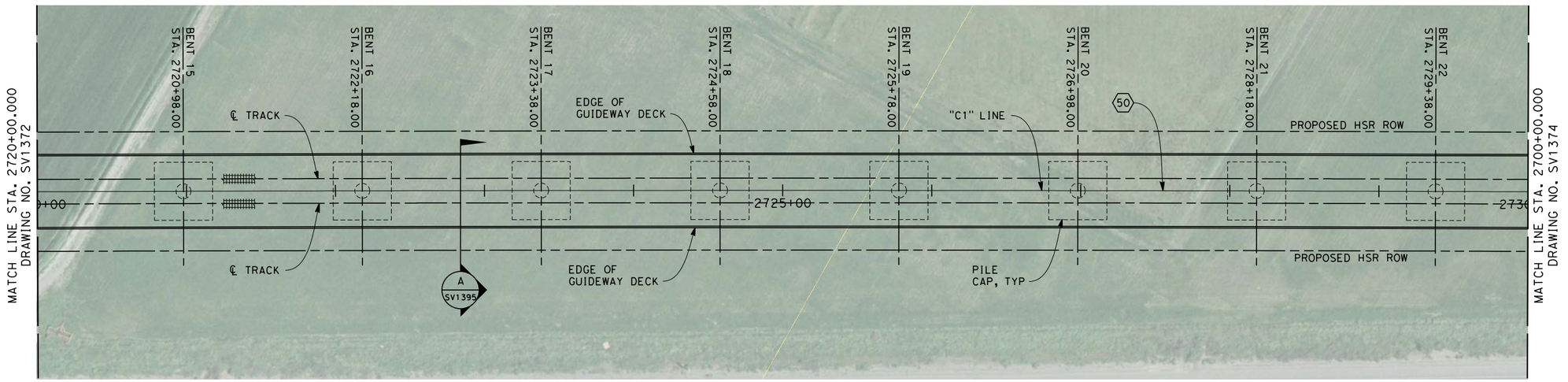
CONTRACT NO. HSR 06-0003
DRAWING NO. SV1372
SCALE AS SHOWN
SHEET NO. 3 OF 28



TOP OF RAIL "C1" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
1. STRUCTURE APPROACH SLAB
2. RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA
50
R = 140000.00'
Δ = 01° 33' 28.8"
T = 1903.6'
L = 3806.9'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

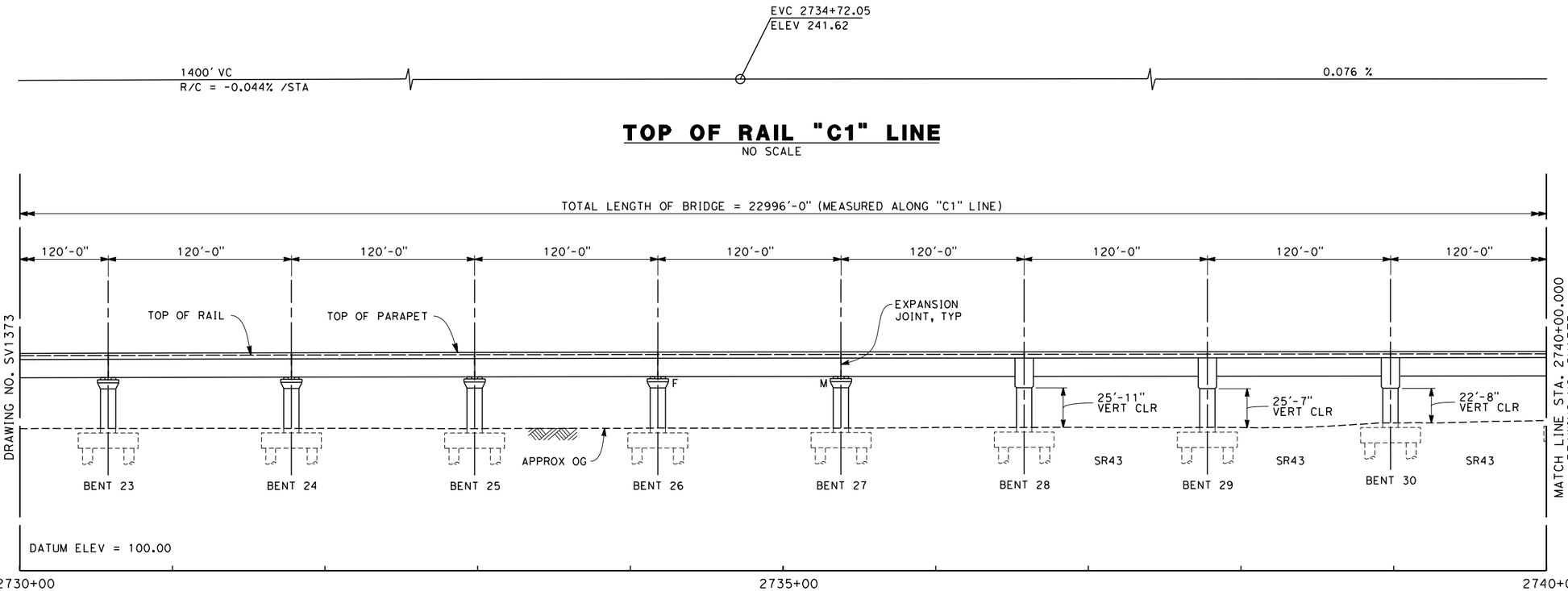
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1373
SCALE AS SHOWN
SHEET NO. 4 OF 28



NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(50)

R = 140000.00'
Δ = 01° 33' 28.8"
T = 1903.6'
L = 3806.9'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

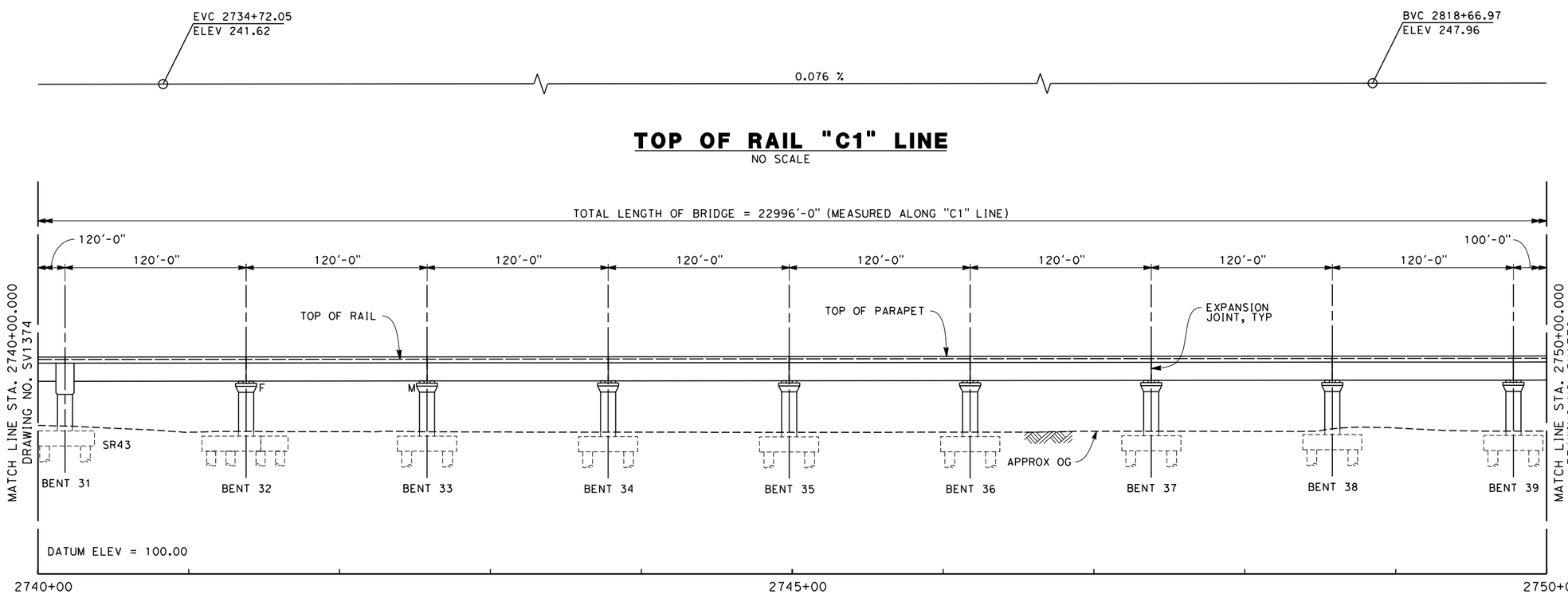
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

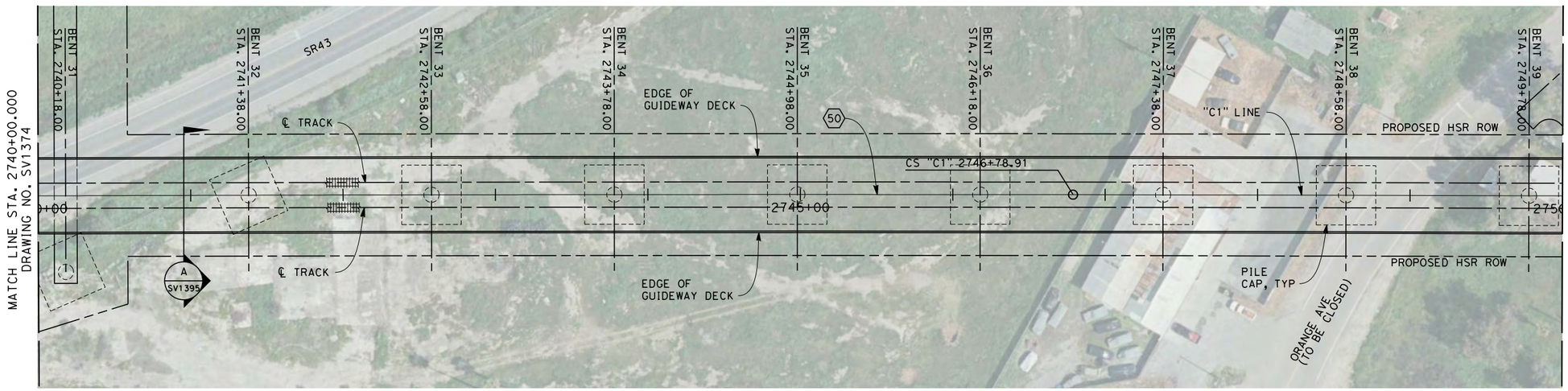
CONTRACT NO. HSR 06-0003
DRAWING NO. SV1374
SCALE AS SHOWN
SHEET NO. 5 OF 28

frank.palermo 12/28/2013 2:43:47 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\d0125261\FB-SV-1374-C1.dgn



TOP OF RAIL "C1" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
1. STRUCTURE APPROACH SLAB
2. RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA
(50)
R = 140000.00'
Δ = 01° 33' 28.8"
T = 1903.6'
L = 3806.9'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

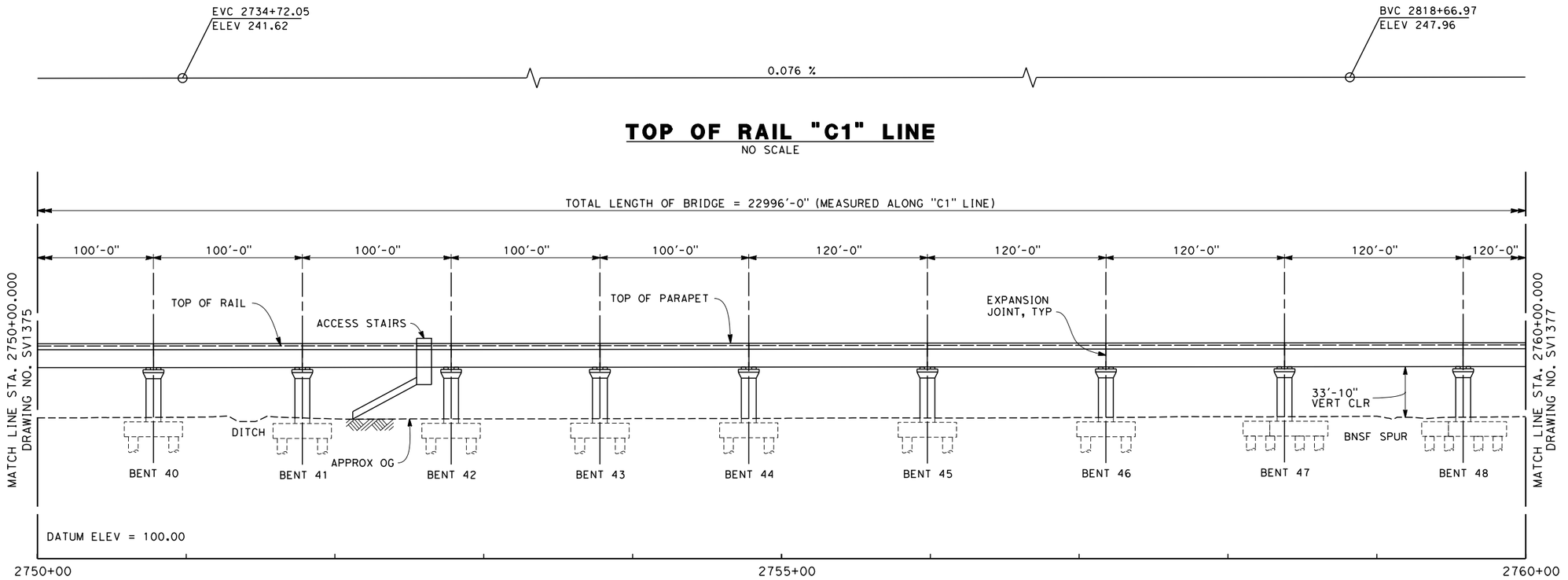
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

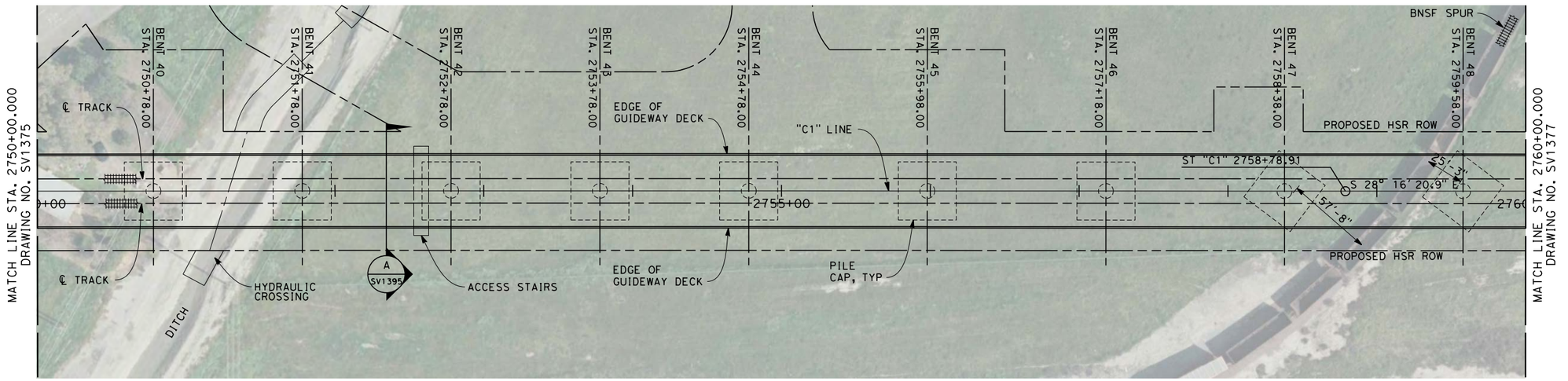
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1375
SCALE AS SHOWN
SHEET NO. 6 OF 28



TOP OF RAIL "C1" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

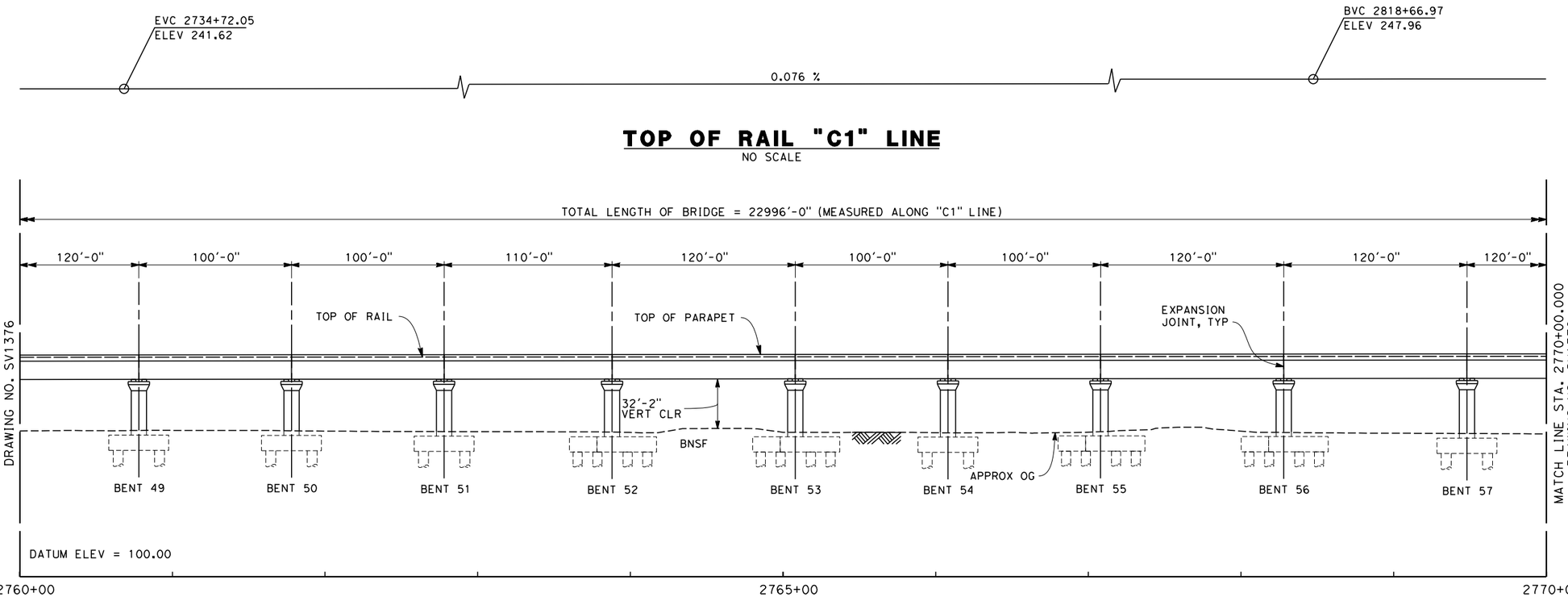
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

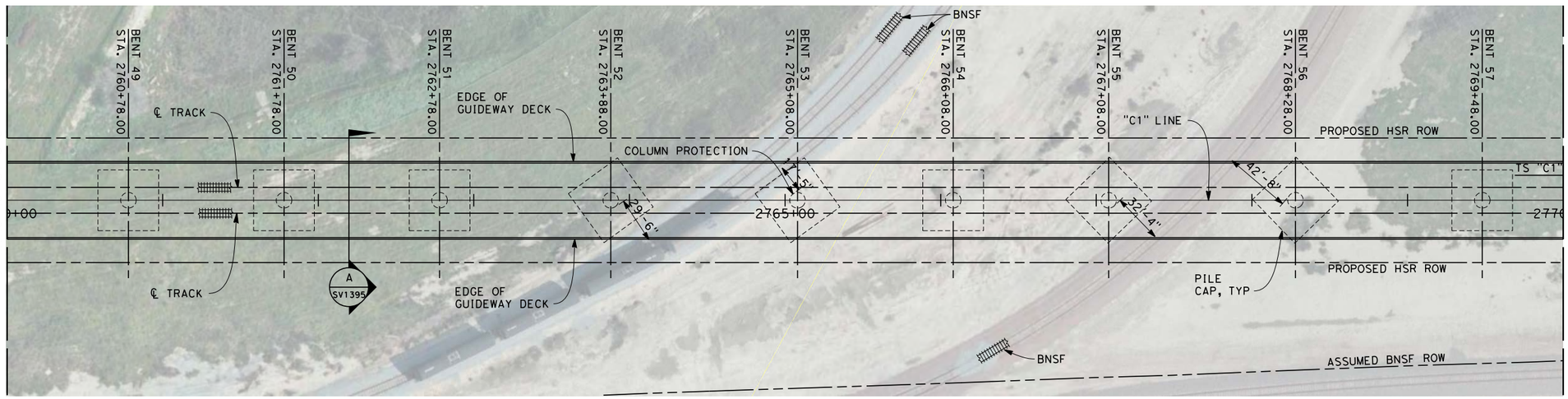
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1376
SCALE AS SHOWN
SHEET NO. 7 OF 28



TOP OF RAIL "C1" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
(1) STRUCTURE APPROACH SLAB
(2) RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

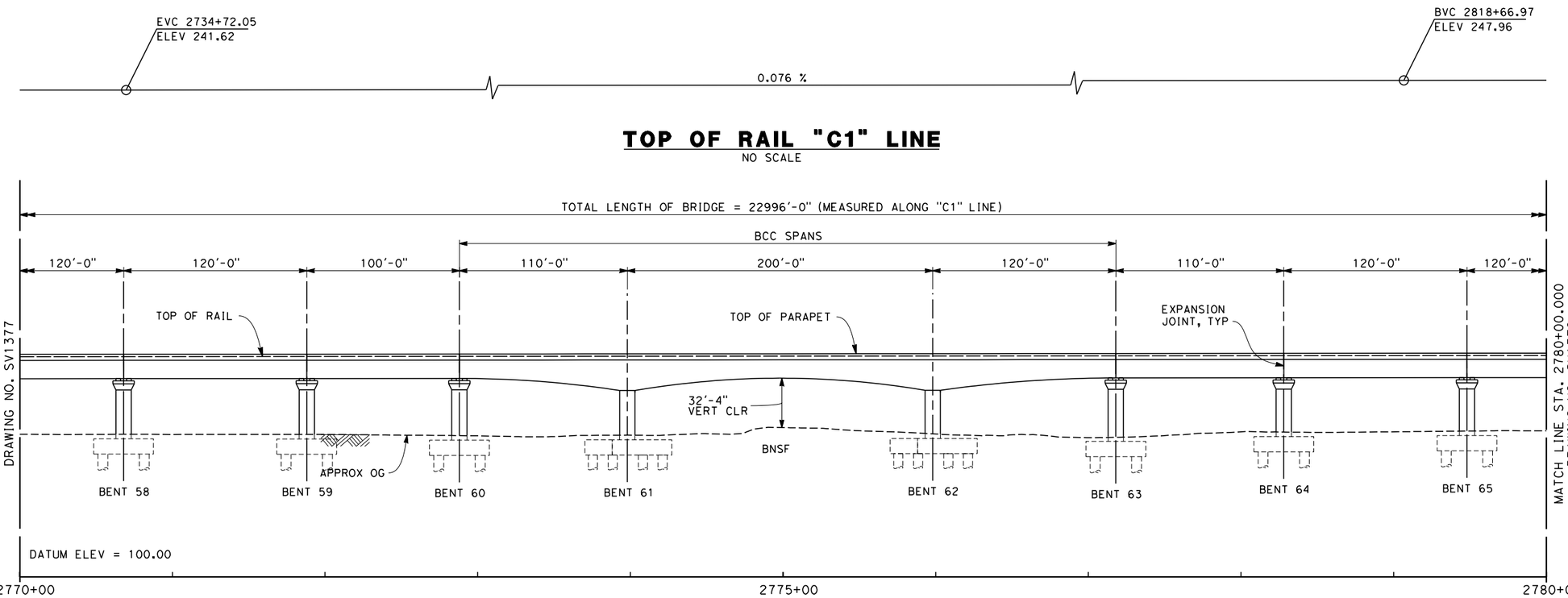
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

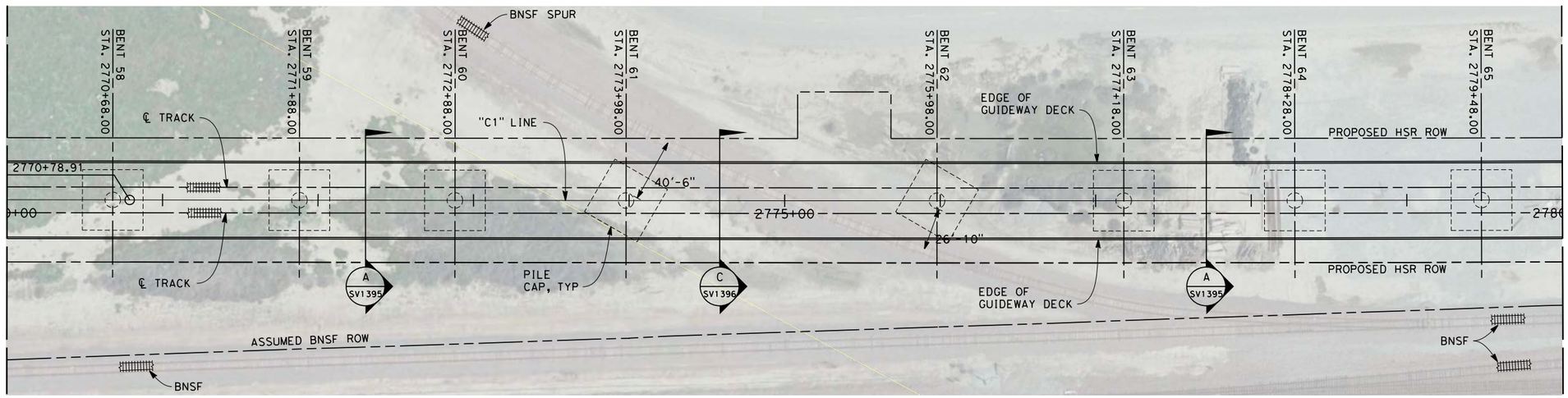
CONTRACT NO. HSR 06-0003
DRAWING NO. SV1377
SCALE AS SHOWN
SHEET NO. 8 OF 28

frank.palermo 12/28/2013 2:45:08 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\d0125261\FB-SV-1377-C1.dgn



TOP OF RAIL "C1" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

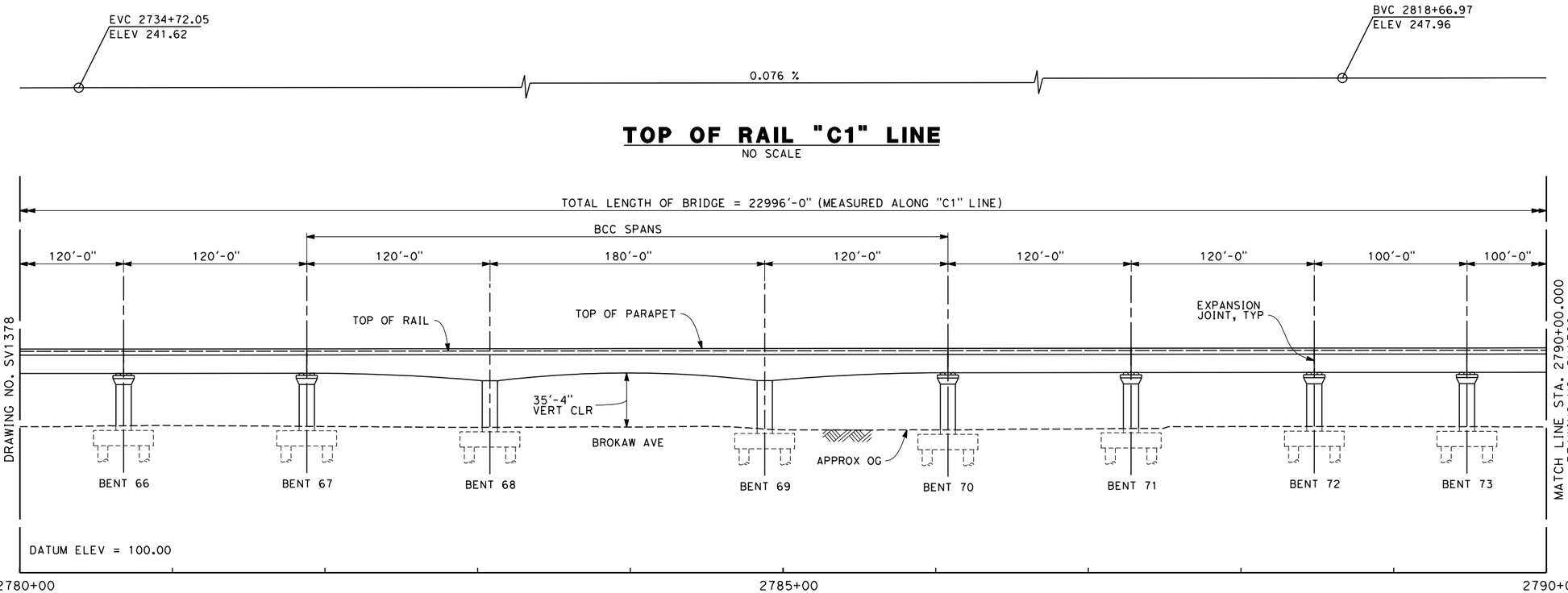
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

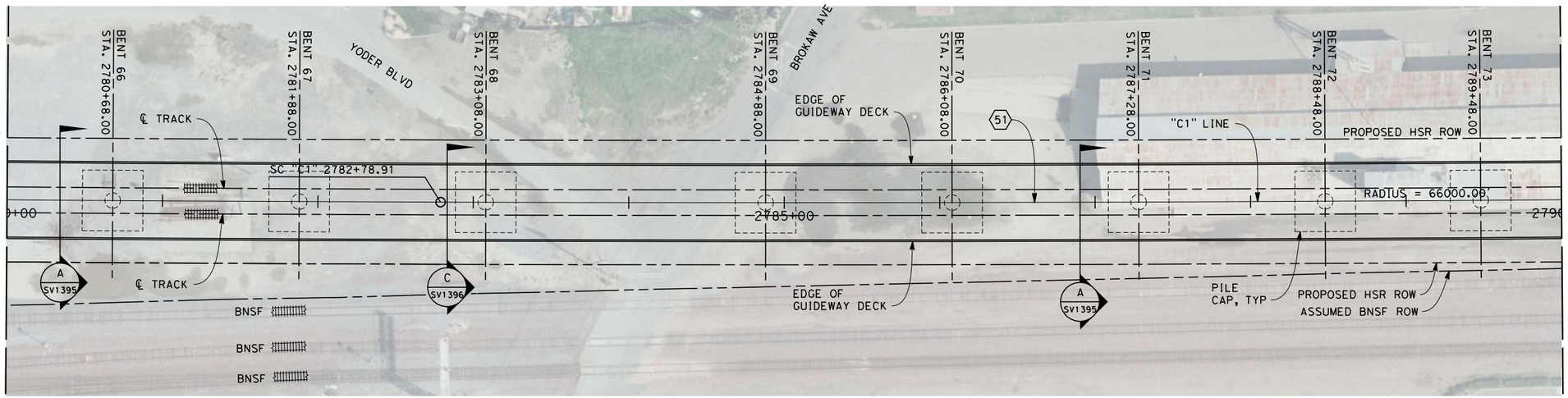
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1378
SCALE AS SHOWN
SHEET NO. 9 OF 28



TOP OF RAIL "C1" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
1. STRUCTURE APPROACH SLAB
2. RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA
(51)
R = 66000.00'
Δ = 01° 01' 53.0"
T = 594.0'
L = 1188.1'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

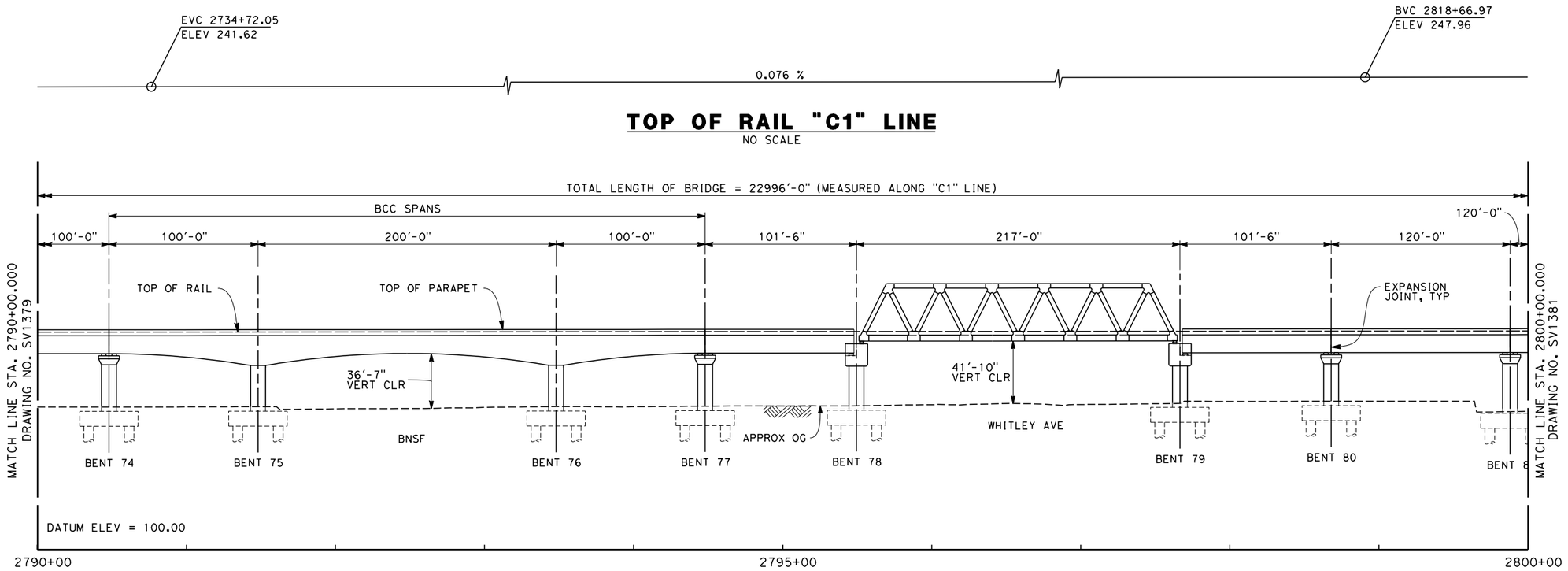
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

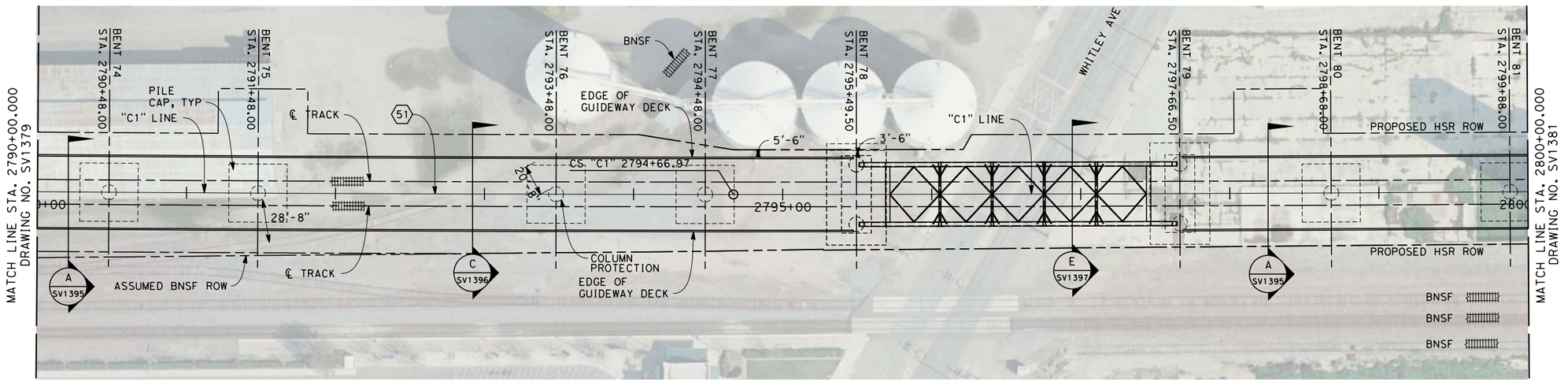
CONTRACT NO. HSR 06-0003
DRAWING NO. SV1379
SCALE AS SHOWN
SHEET NO. 10 OF 28

frank.palermo 12/28/2013 2:46:08 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\d0125261\FB-SV-1379-C1.dgn



TOP OF RAIL "C1" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
1. STRUCTURE APPROACH SLAB
2. RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA
(51)
R = 66000.00'
Δ = 01° 01' 53.0"
T = 594.0'
L = 1188.1'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

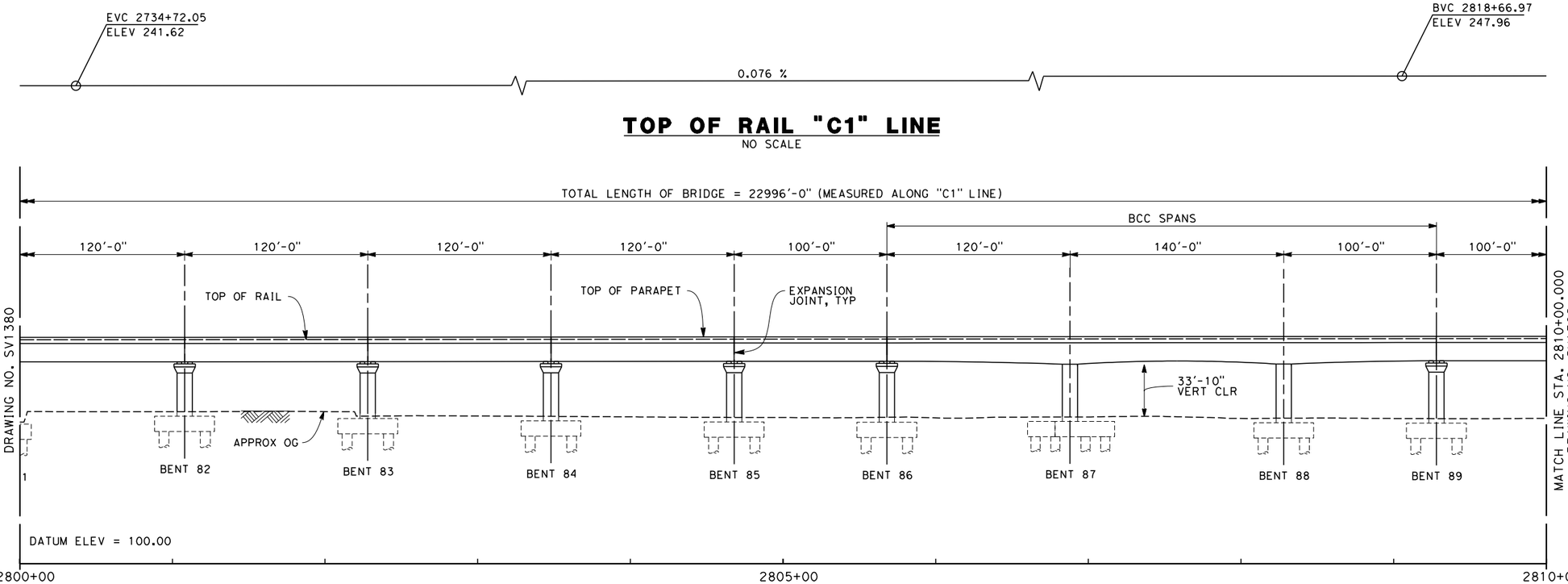
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

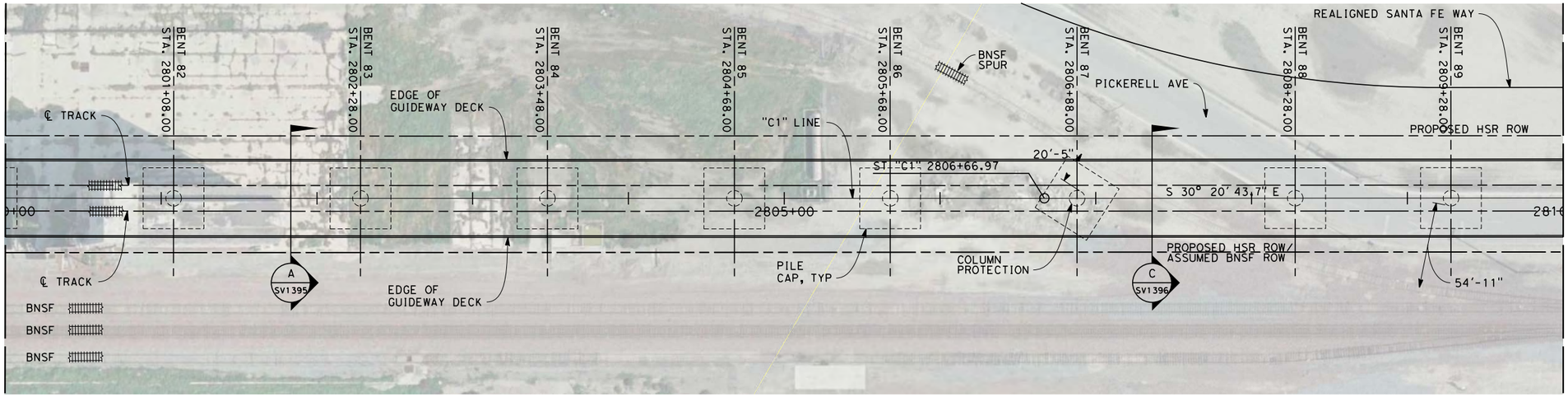
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1380
SCALE AS SHOWN
SHEET NO. 11 OF 28

frank.palermo 12/28/2013 2:46:33 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\d0125261\FB-SV-1380-C1.dgn



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

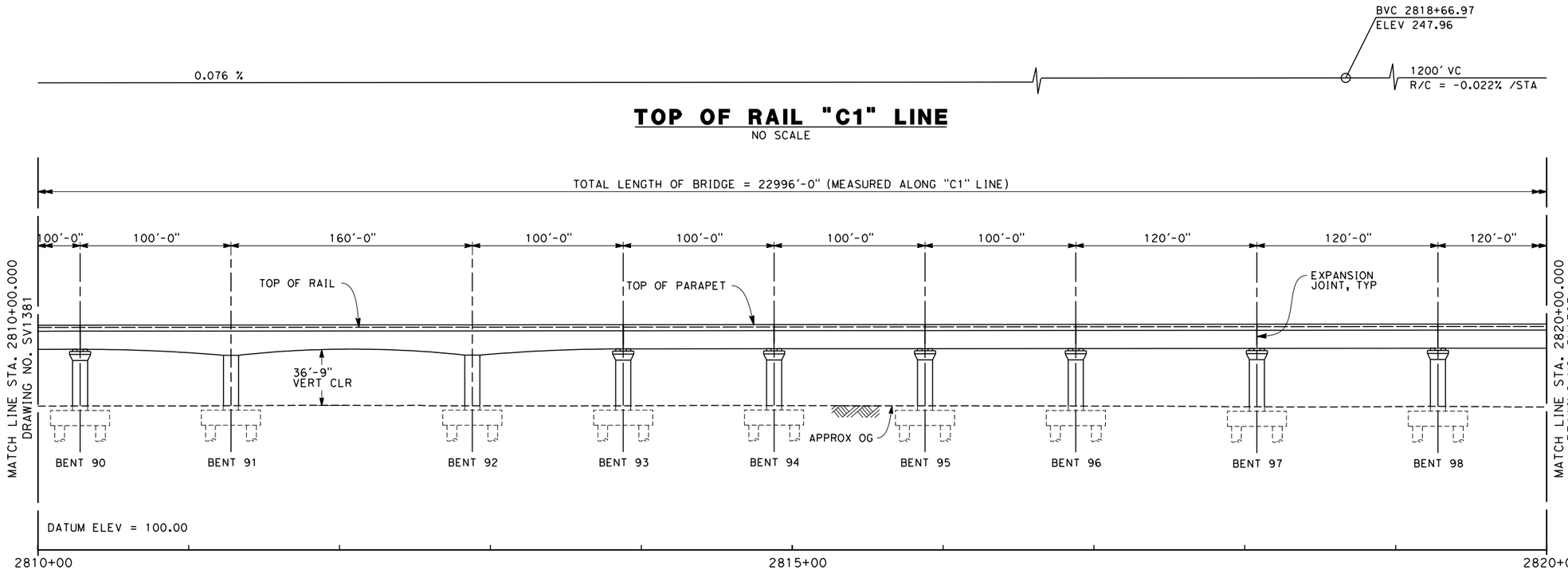
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

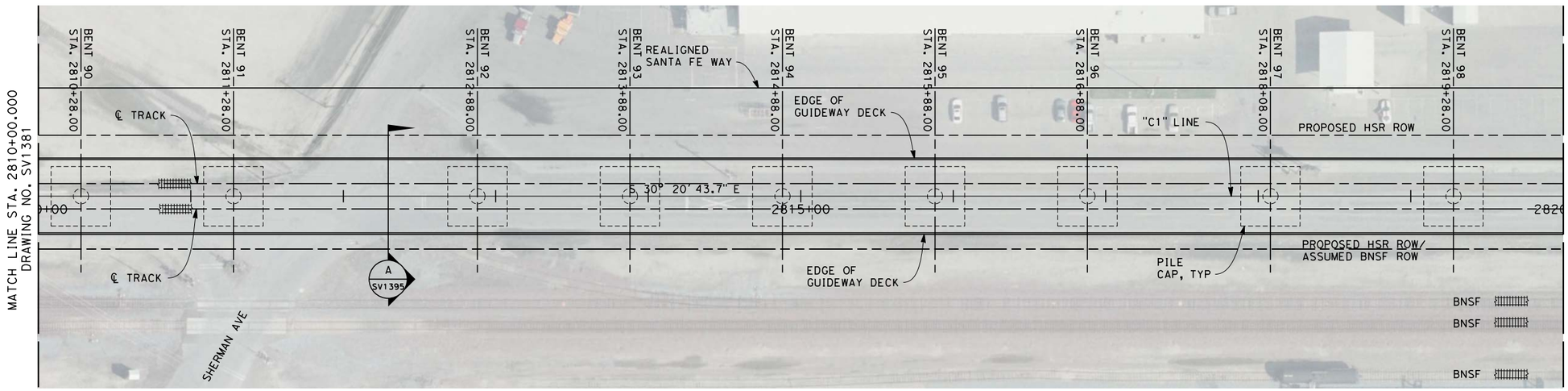
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1381
SCALE AS SHOWN
SHEET NO. 12 OF 28



TOP OF RAIL "C1" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
(1) STRUCTURE APPROACH SLAB
(2) RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

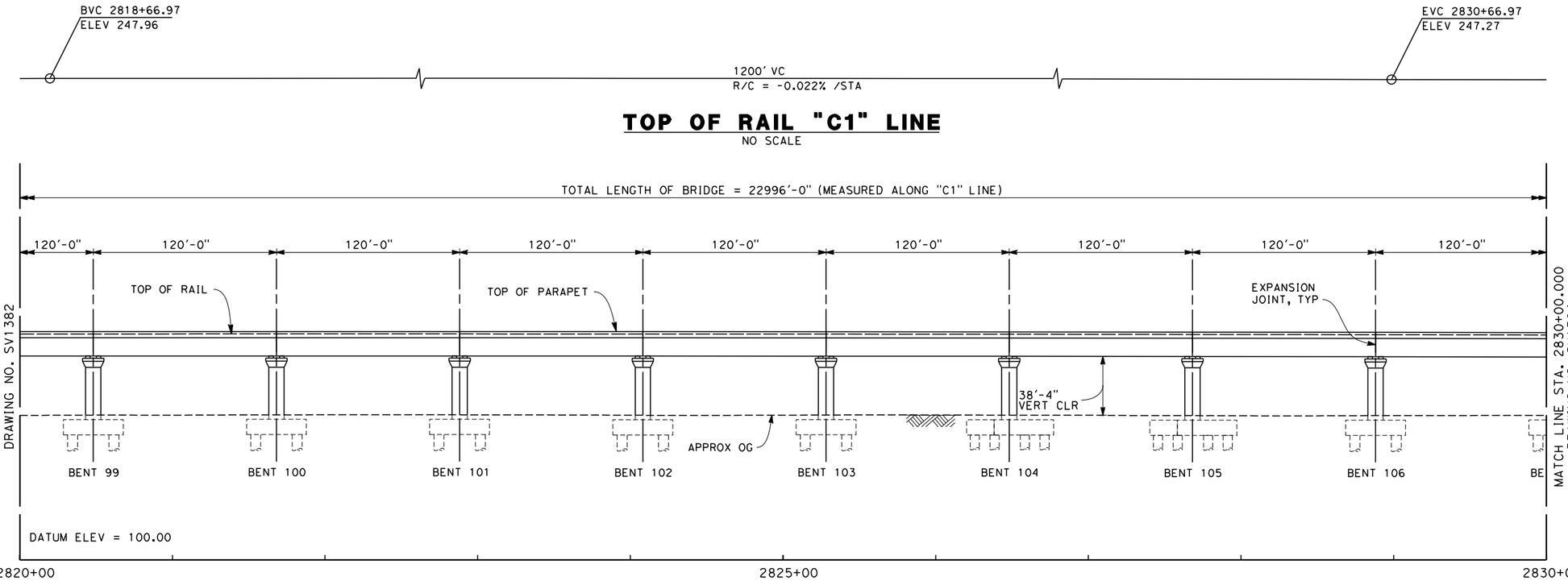
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

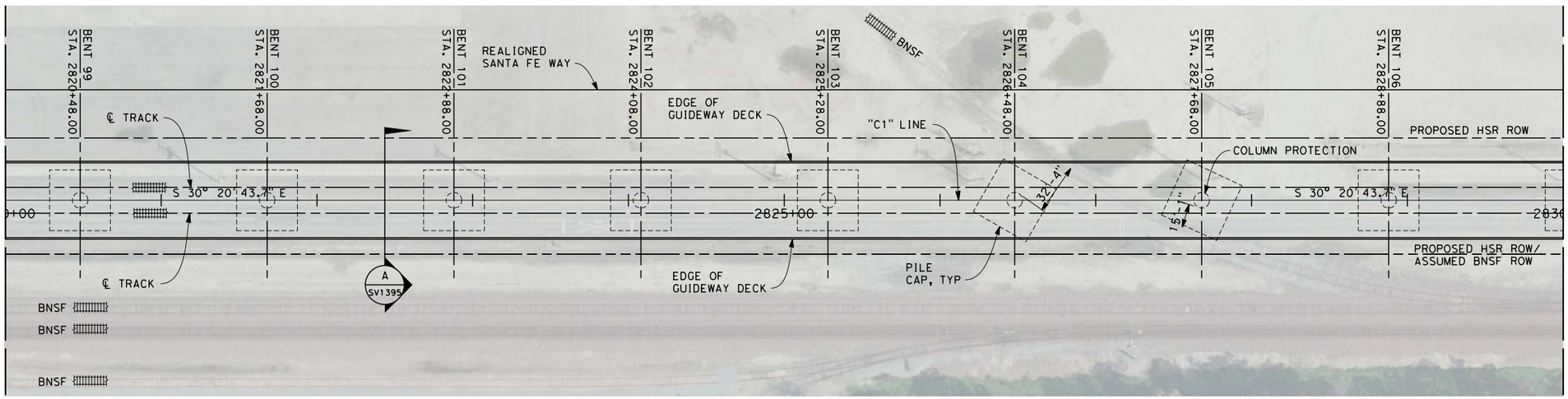
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1382
SCALE AS SHOWN
SHEET NO. 13 OF 28



TOP OF RAIL "C1" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

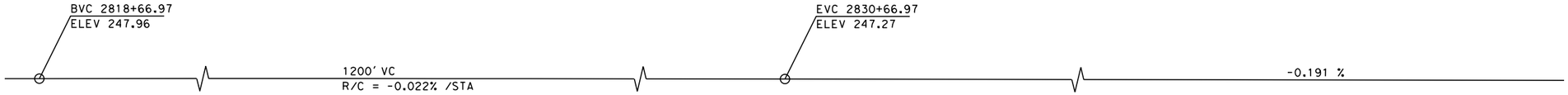
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

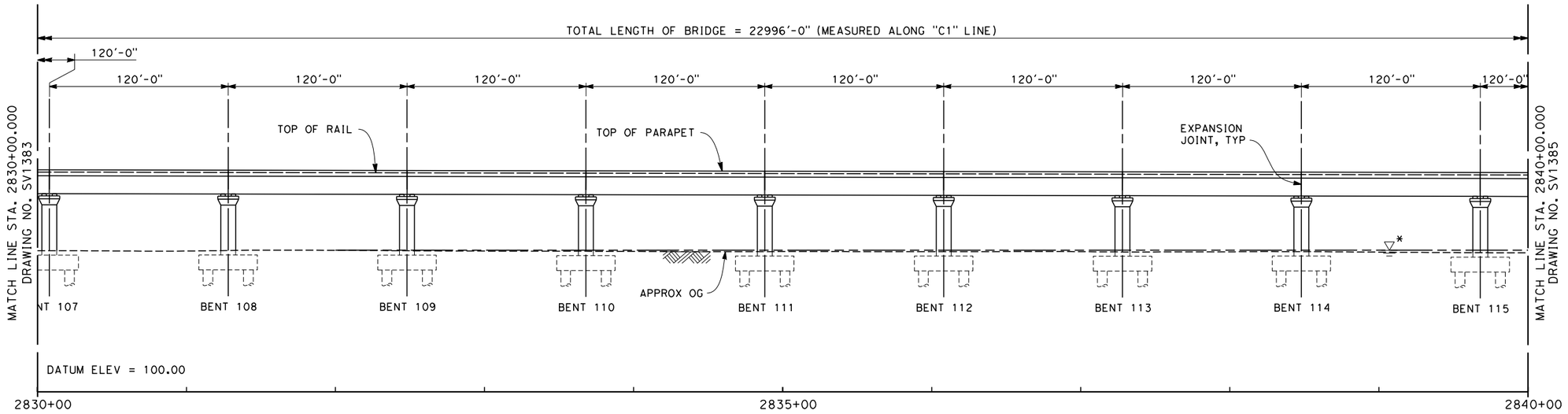
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

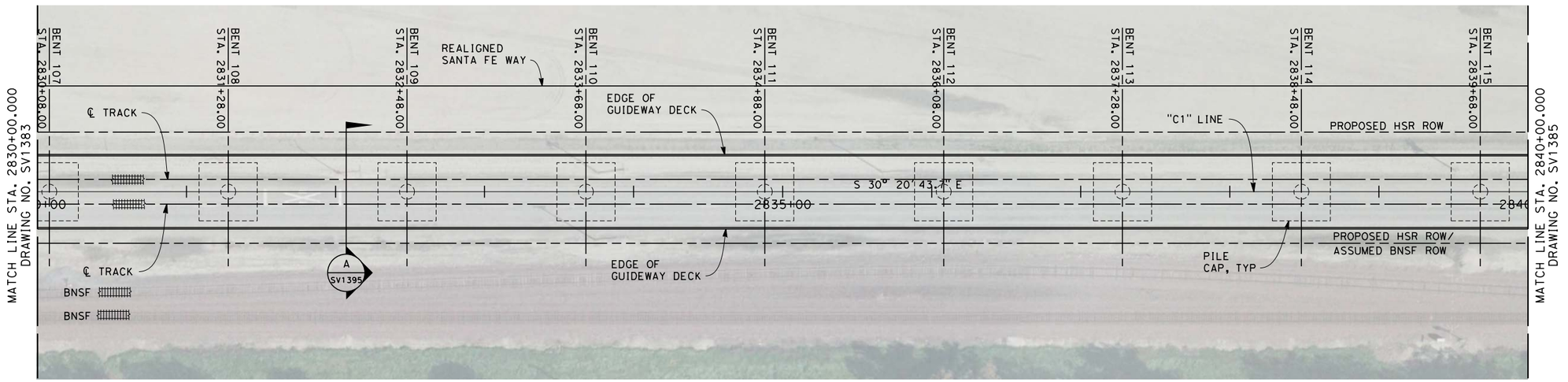
CONTRACT NO. HSR 06-0003
DRAWING NO. SV1383
SCALE AS SHOWN
SHEET NO. 14 OF 28



TOP OF RAIL "C1" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
1. STRUCTURE APPROACH SLAB
2. RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

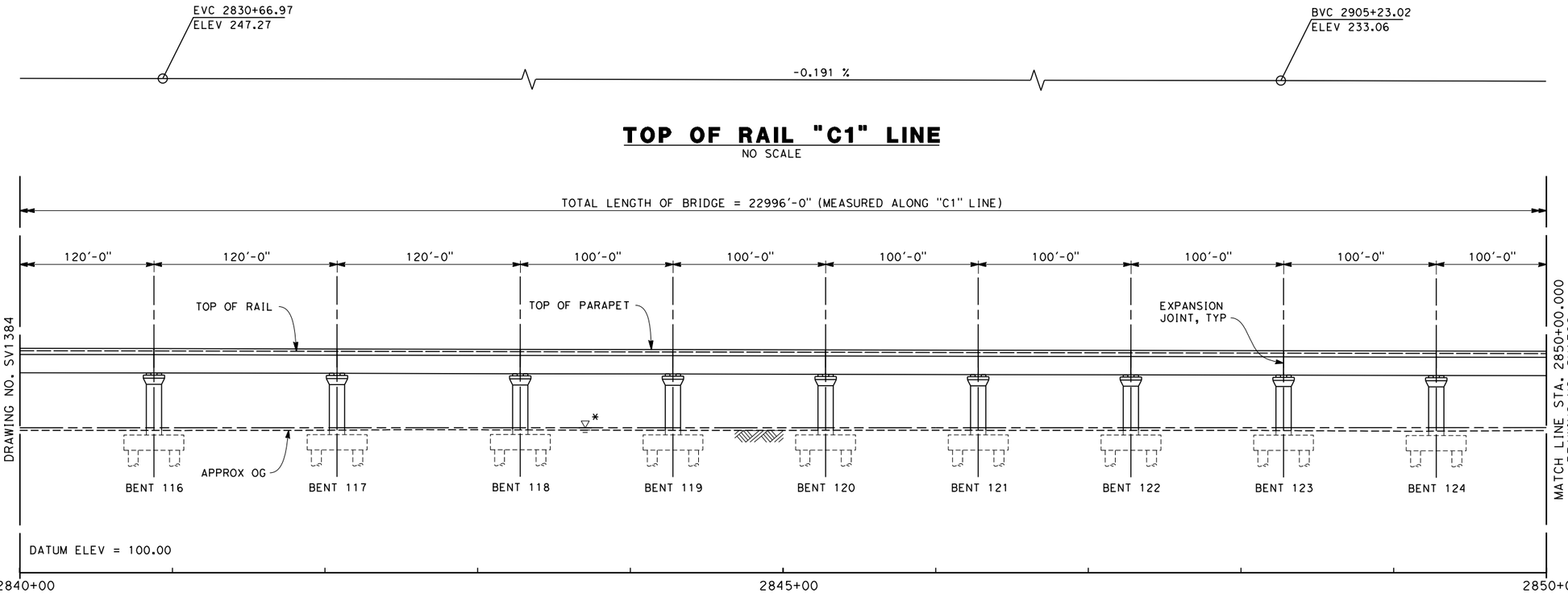
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

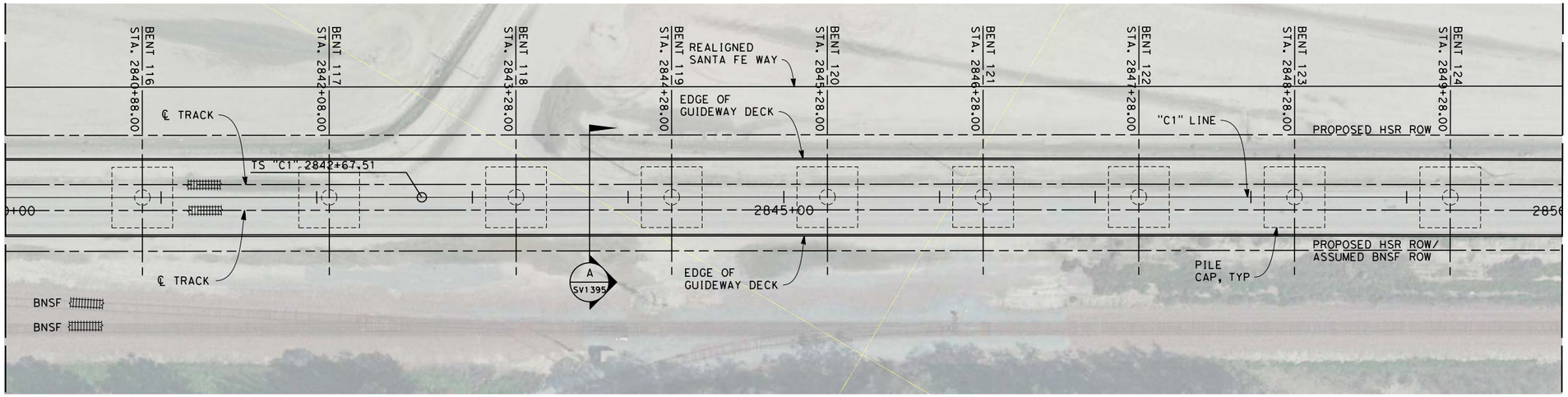
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1384
SCALE AS SHOWN
SHEET NO. 15 OF 28



TOP OF RAIL "C1" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
(1) STRUCTURE APPROACH SLAB
(2) RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

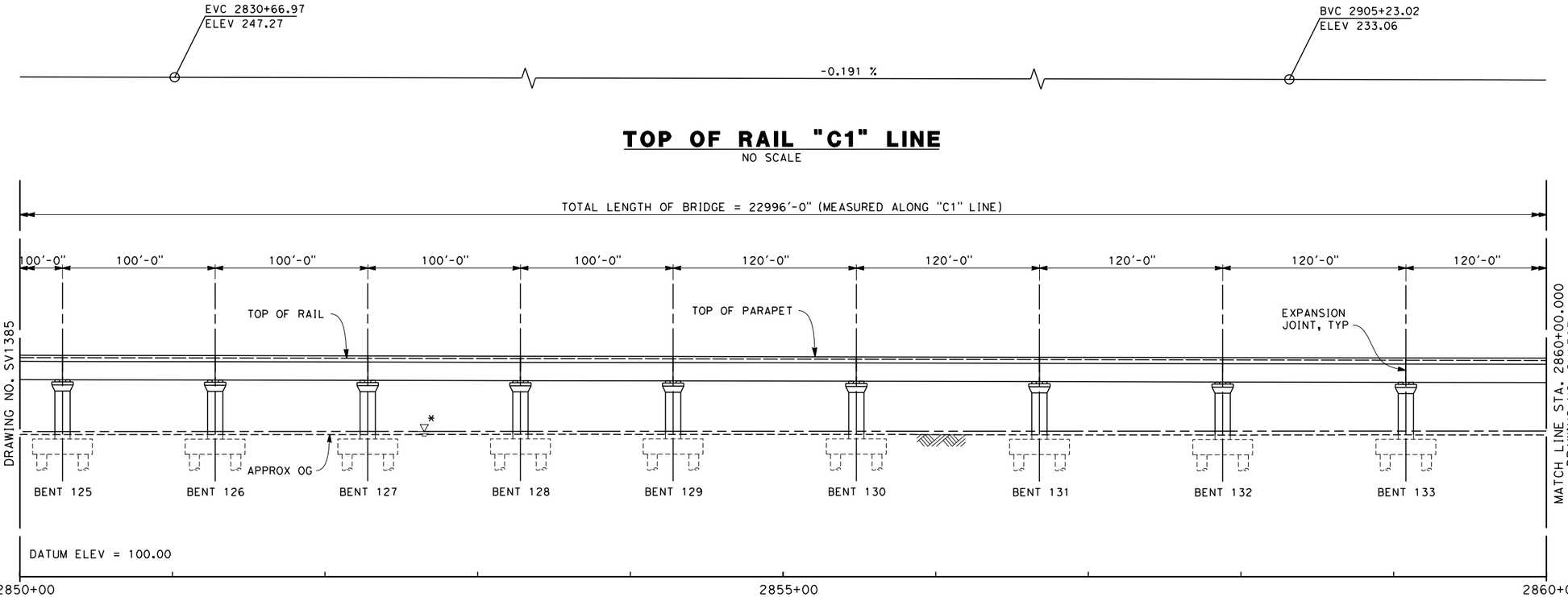
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1385
SCALE AS SHOWN
SHEET NO. 16 OF 28

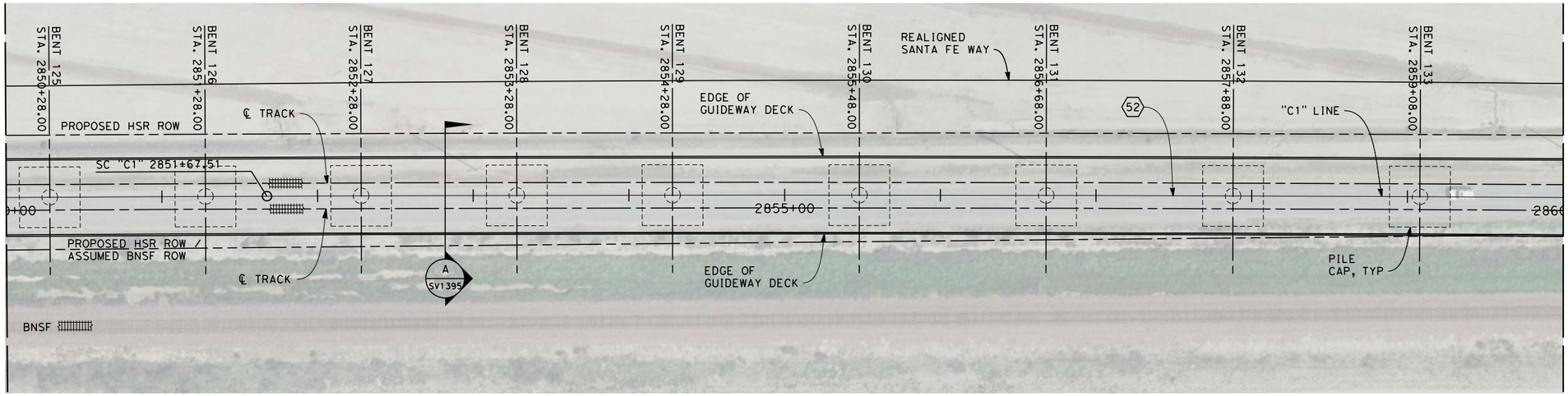


TOP OF RAIL "C1" LINE

NO SCALE

ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(52)

R = 80000.00'
Δ = 01° 54' 06.7"
T = 1327.9'
L = 2655.5'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

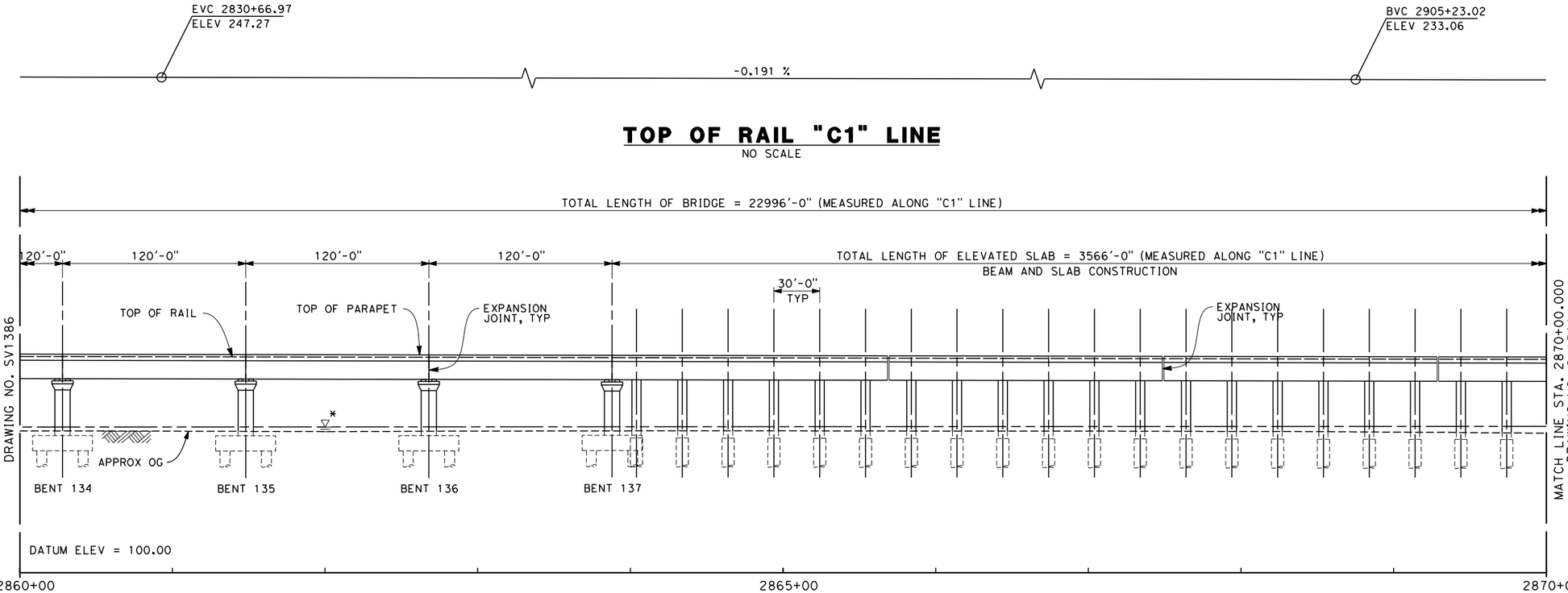
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1386
SCALE AS SHOWN
SHEET NO. 17 OF 28

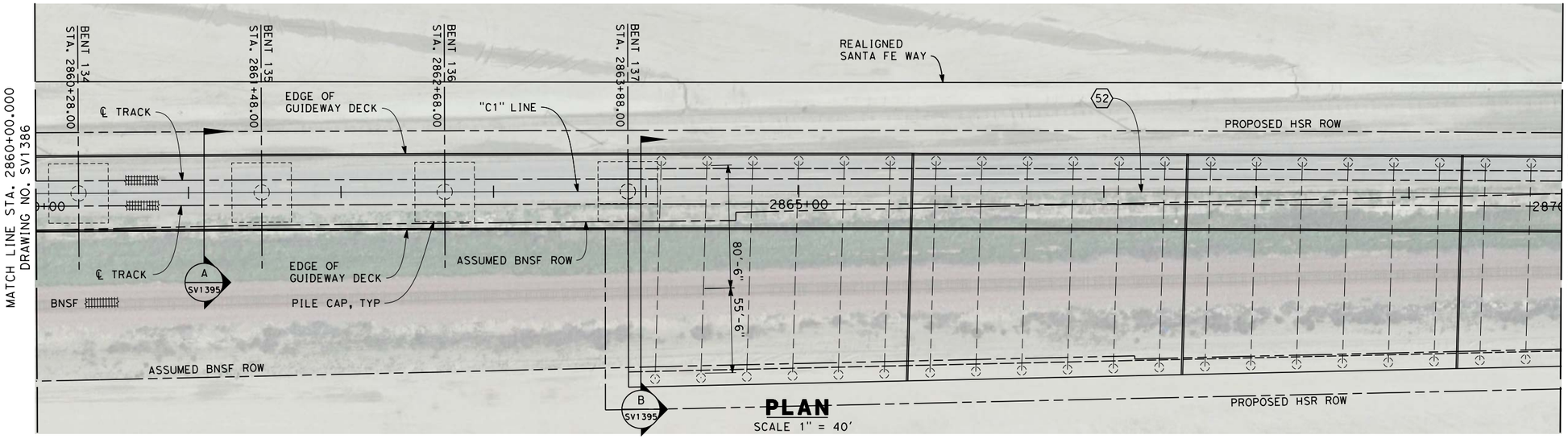


TOP OF RAIL "C1" LINE

NO SCALE

ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(52)

R = 80000.00'
Δ = 01° 54' 06.7"
T = 1327.9'
L = 2655.5'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

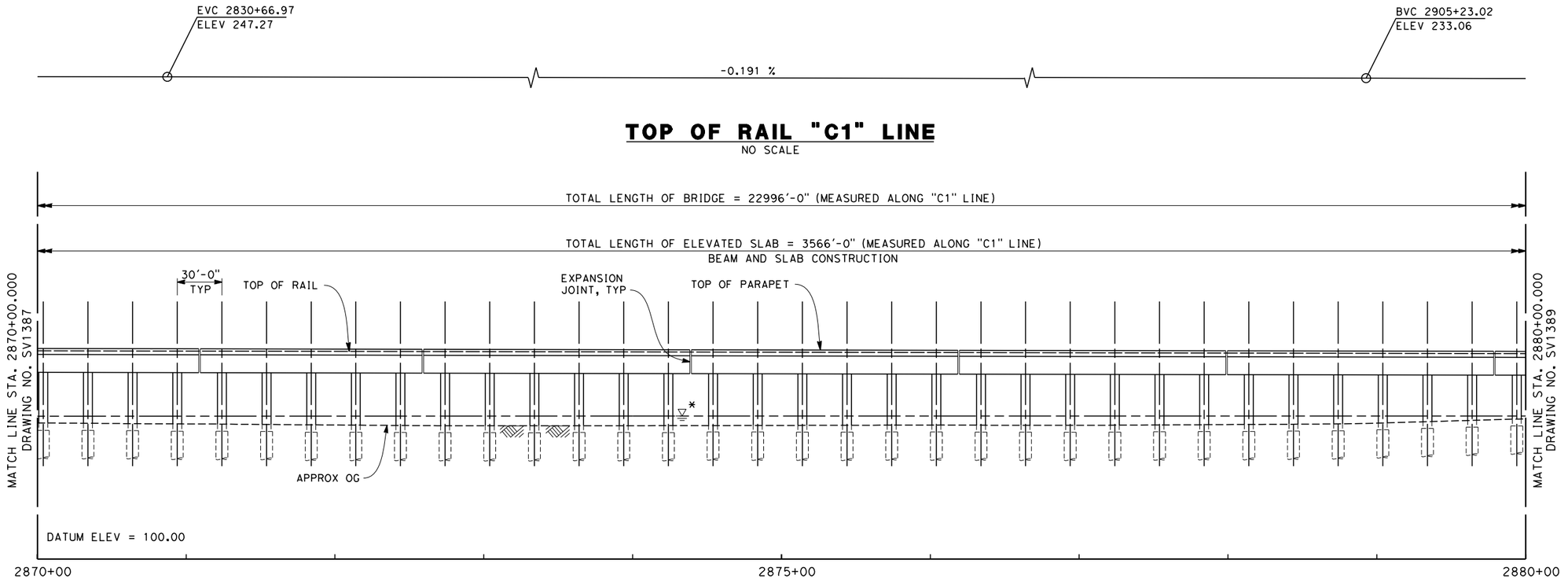
URS | HMM | ARUP

CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

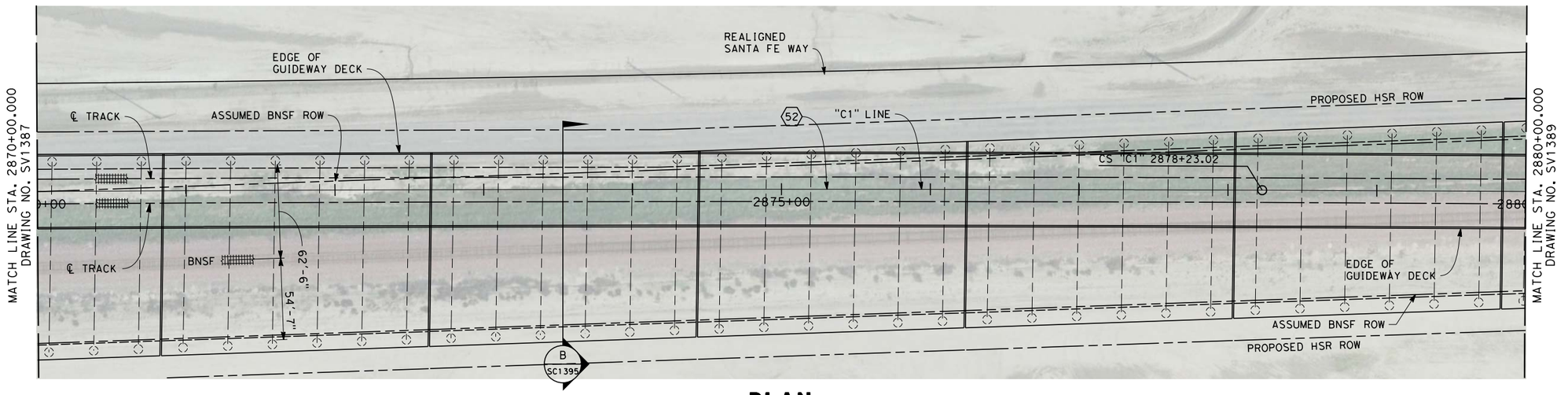
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1387
SCALE AS SHOWN
SHEET NO. 18 OF 28



TOP OF RAIL "C1" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
(1) STRUCTURE APPROACH SLAB
(2) RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA
(52)
R = 80000.00'
Δ = 01° 54' 06.7"
T = 1327.9'
L = 2655.5'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

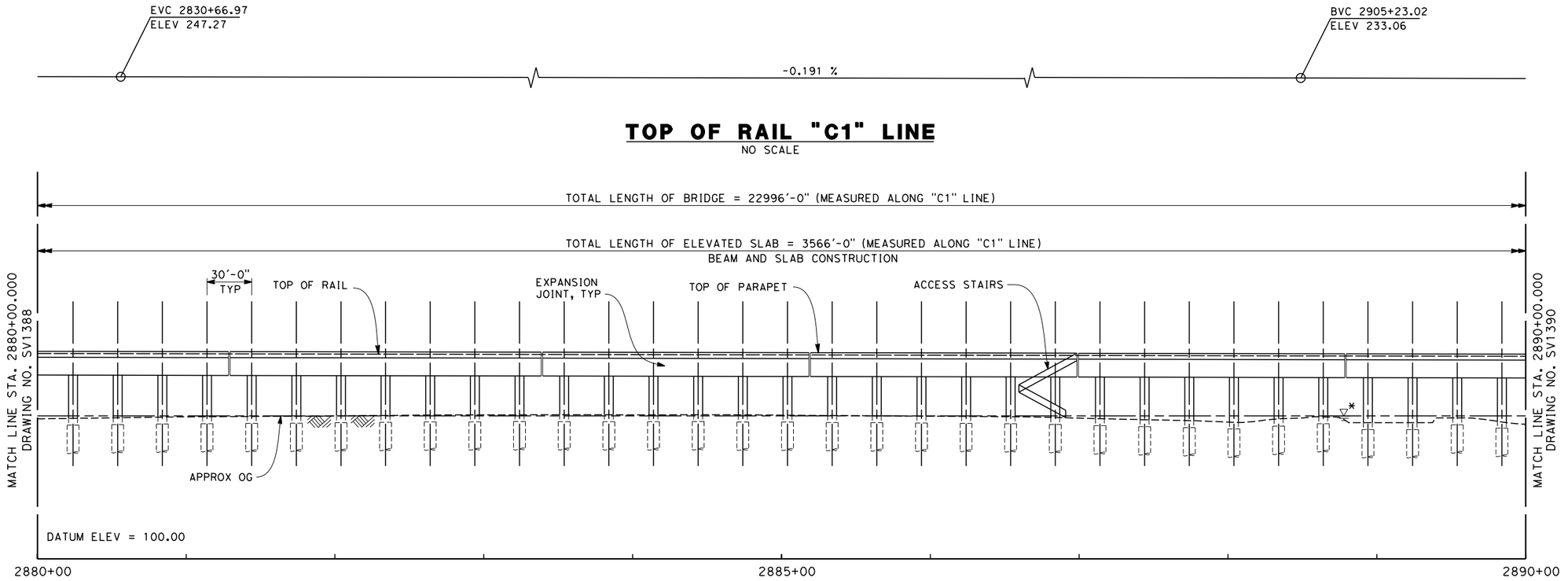
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1388
SCALE AS SHOWN
SHEET NO. 19 OF 28

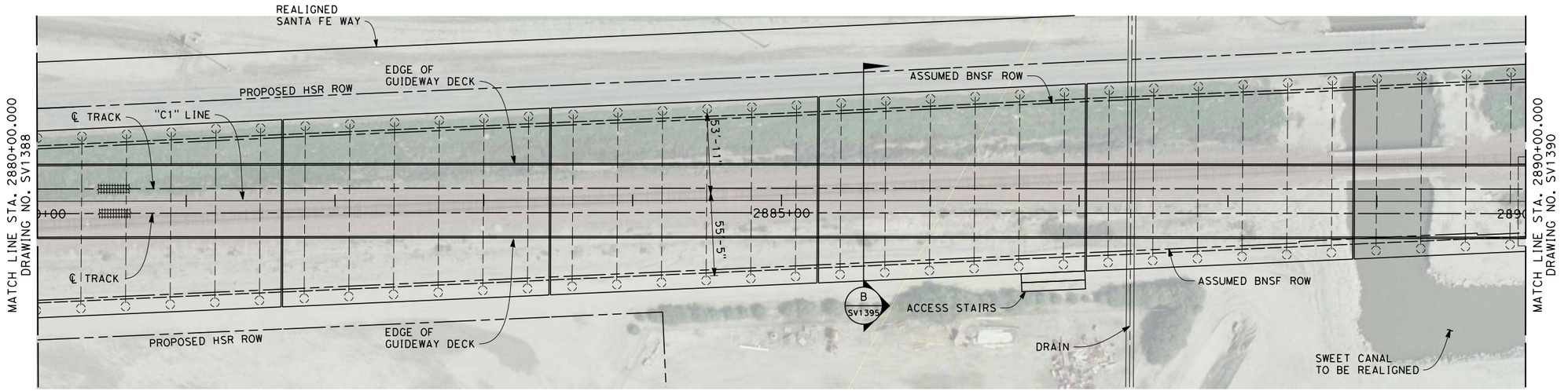


TOP OF RAIL "C1" LINE

NO SCALE

ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

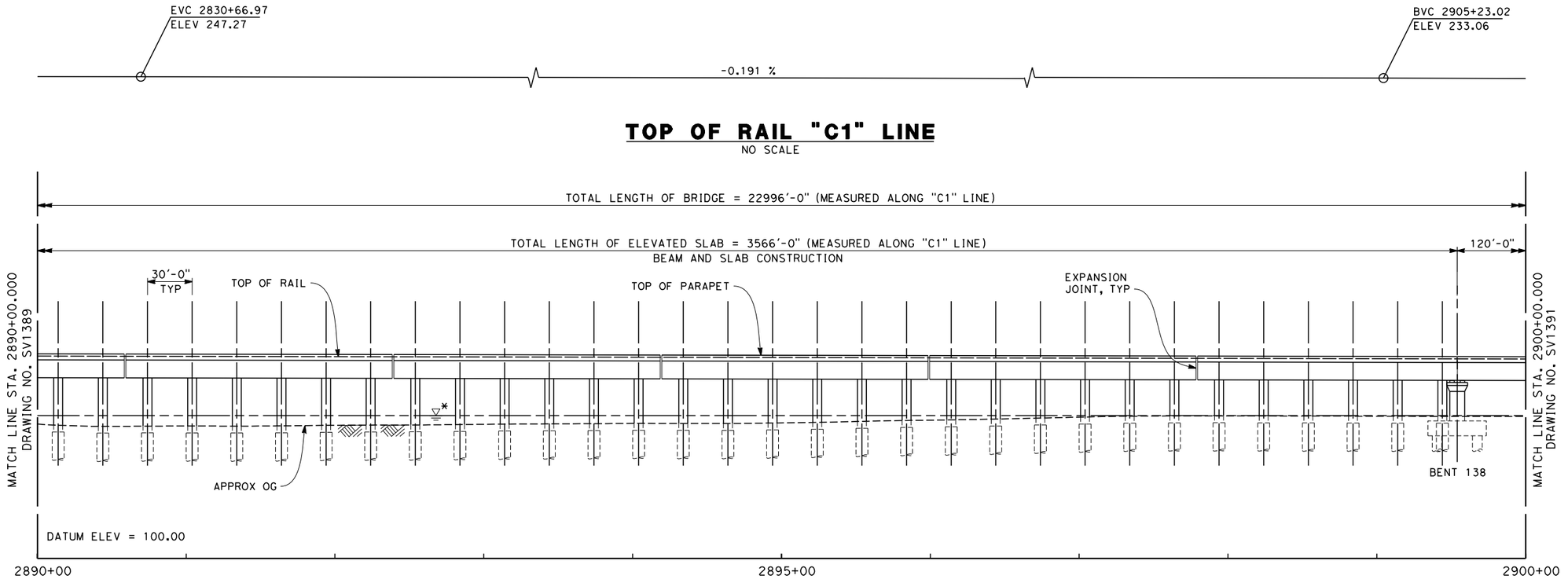
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

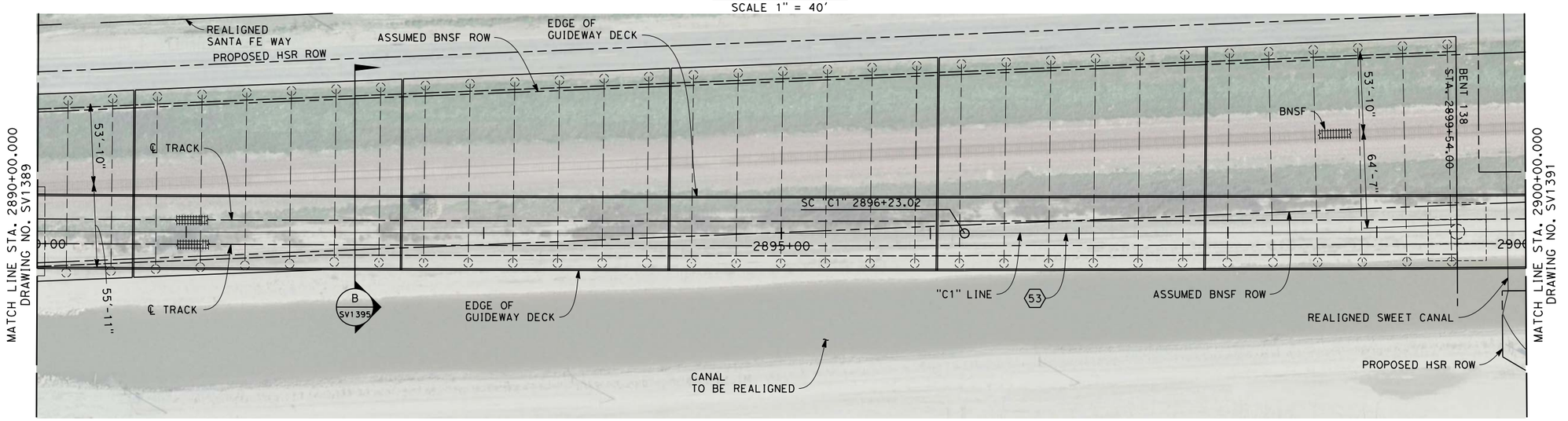
CONTRACT NO. HSR 06-0003
DRAWING NO. SV1389
SCALE AS SHOWN
SHEET NO. 20 OF 28

frank.palermo 12/28/2013 2:50:49 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\d0125261\FB-SV-1389-C1.dgn



TOP OF RAIL "C1" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(53)

R = 80000.00'
Δ = 01° 56' 22.1"
T = 1354.1'
L = 2708.0'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

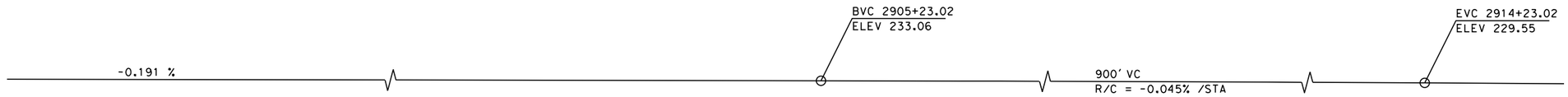
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

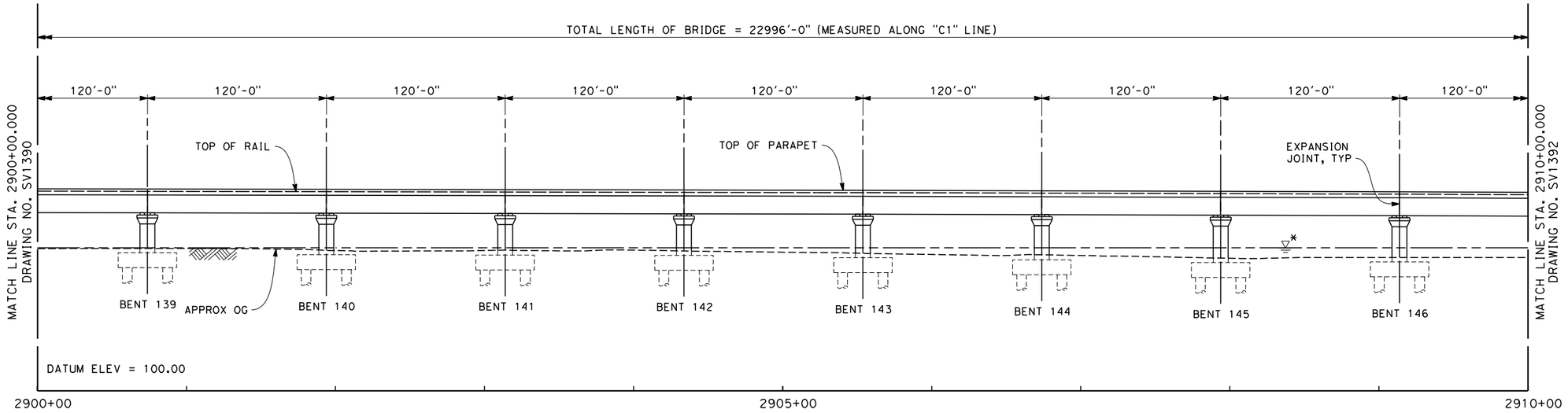
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

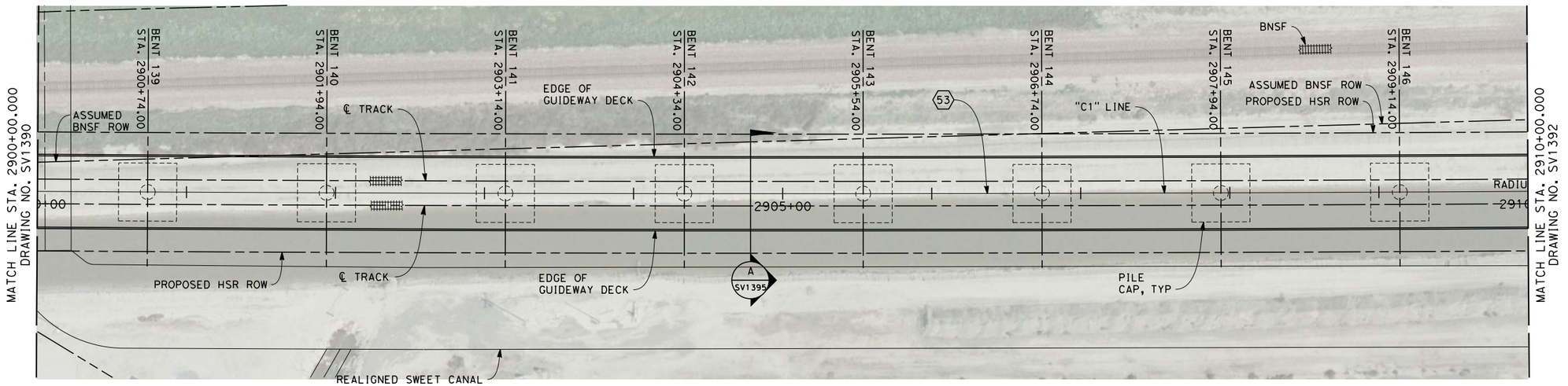
CONTRACT NO. HSR 06-0003
DRAWING NO. SV1390
SCALE AS SHOWN
SHEET NO. 21 OF 28



TOP OF RAIL "C1" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(53)

R = 80000.00'
Δ = 01° 56' 22.1"
T = 1354.1'
L = 2708.0'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

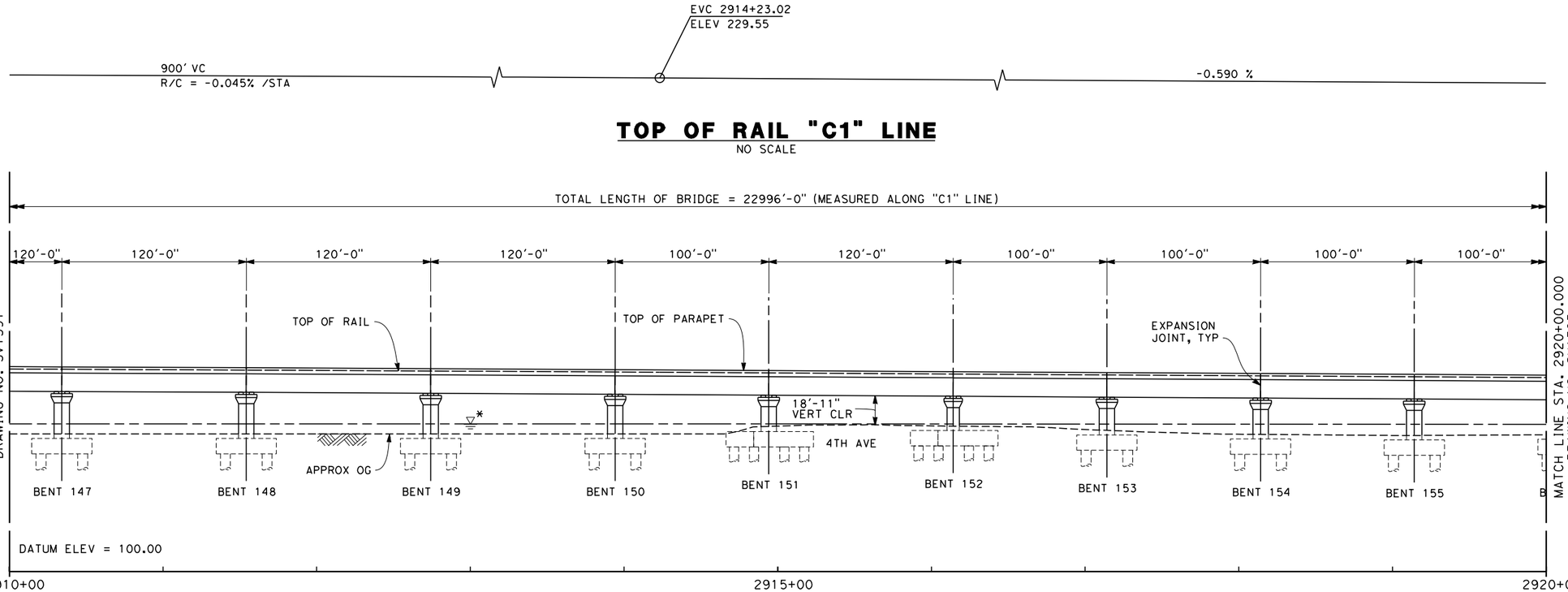
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1391
SCALE AS SHOWN
SHEET NO. 22 OF 28

frank.palermo 12/28/2013 2:51:59 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\d0125261\FB-SV-1391-C1.dgn

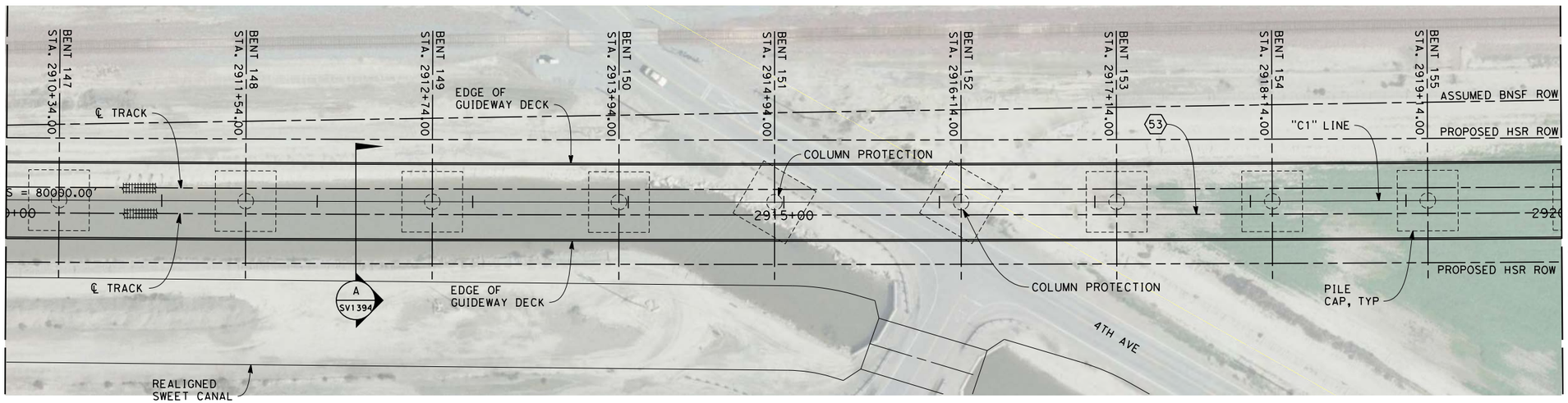


TOP OF RAIL "C1" LINE

NO SCALE

ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(53)

R = 80000.00'
Δ = 01° 56' 22.1"
T = 1354.1'
L = 2708.0'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

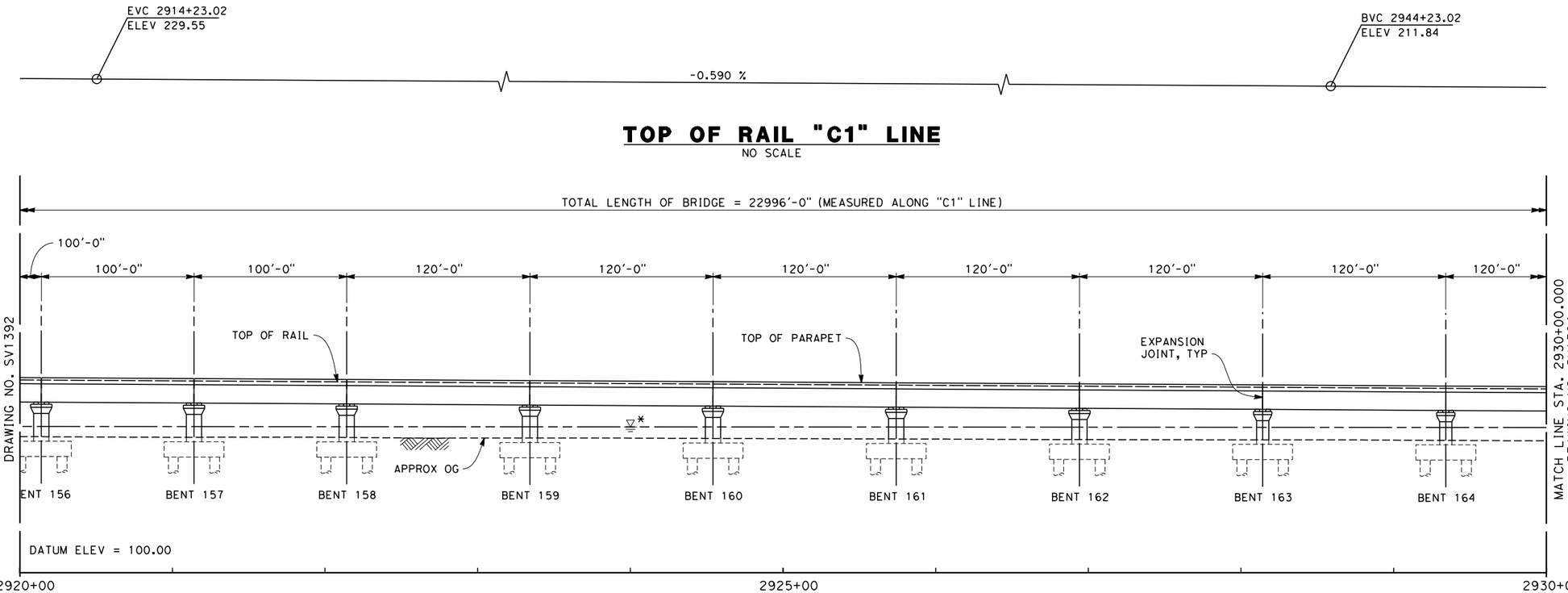
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

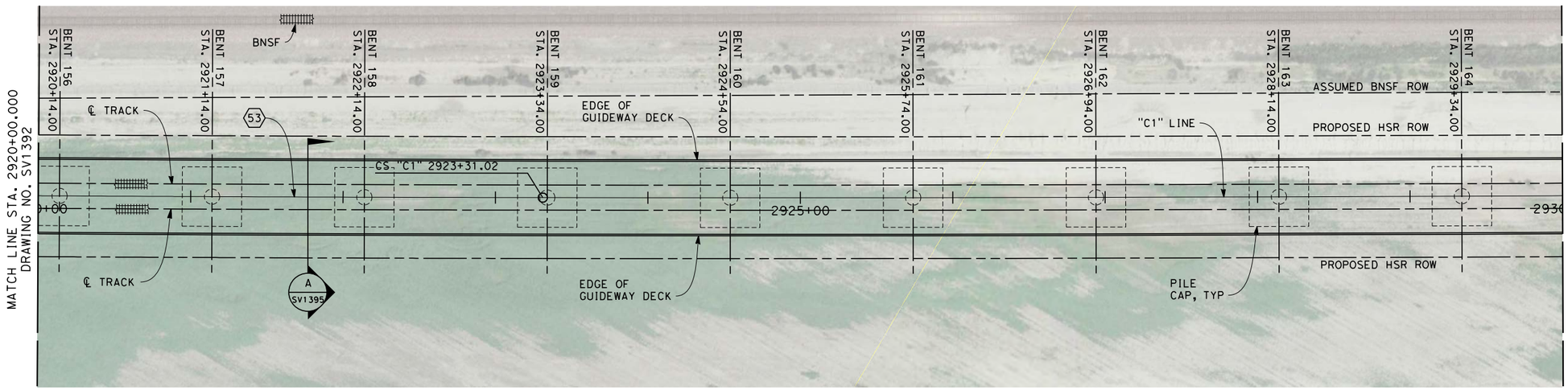
CONTRACT NO. HSR 06-0003
DRAWING NO. SV1392
SCALE AS SHOWN
SHEET NO. 23 OF 28

frank.palermo 12/28/2013 2:52:52 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\d0125261\FB-SV-1392-C1.dgn



TOP OF RAIL "C1" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
1. STRUCTURE APPROACH SLAB
2. RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA
(53)
R = 80000.00'
Δ = 01° 56' 22.1"
T = 1354.1'
L = 2708.0'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

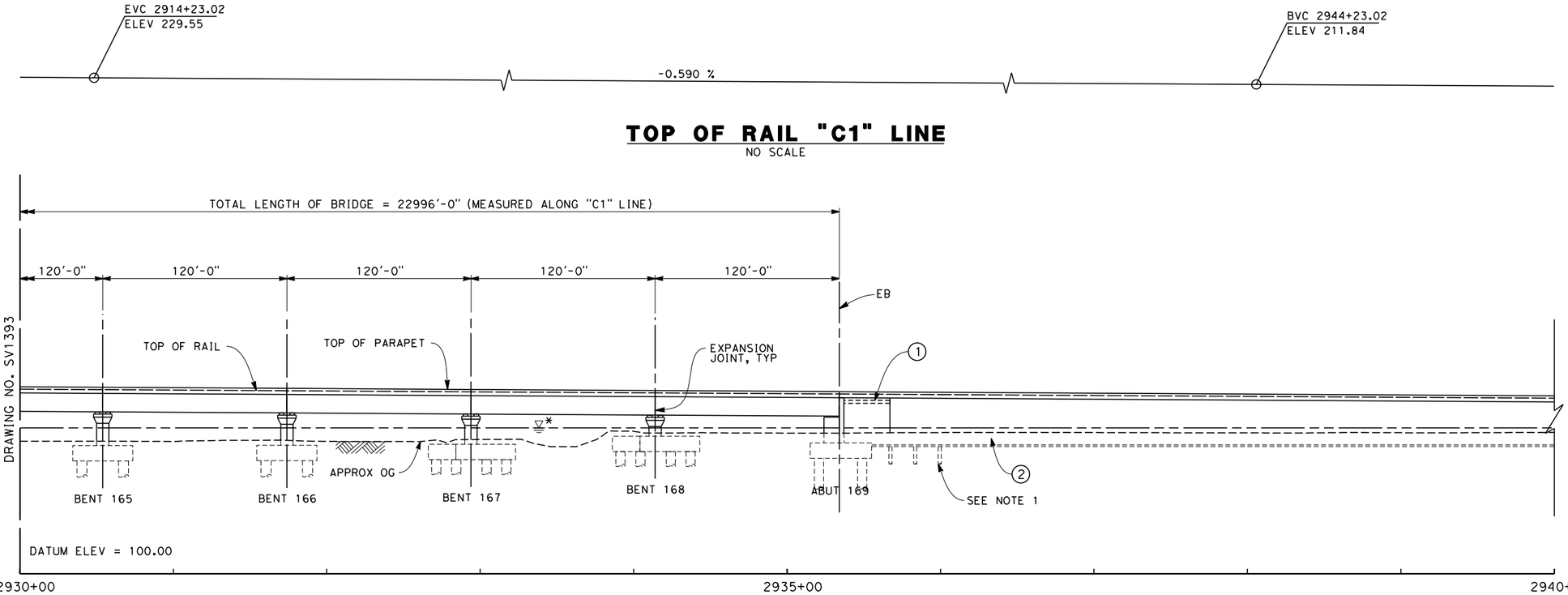
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1393
SCALE AS SHOWN
SHEET NO. 24 OF 28

frank.palermo 12/28/2013 2:53:33 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\d0125261\FB-SV-1393-C1.dgn

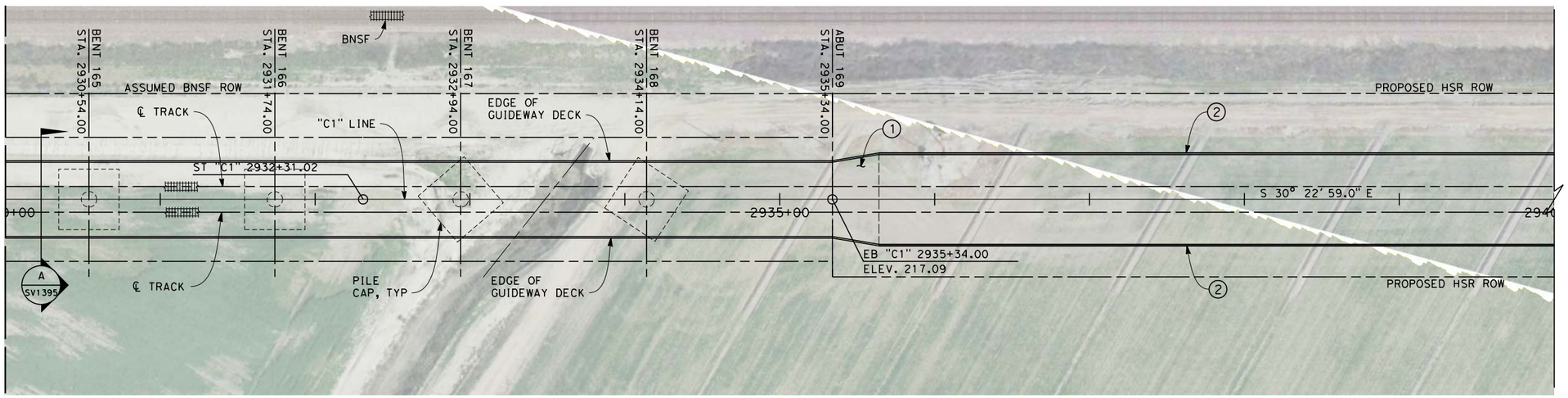


TOP OF RAIL "C1" LINE

NO SCALE

ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

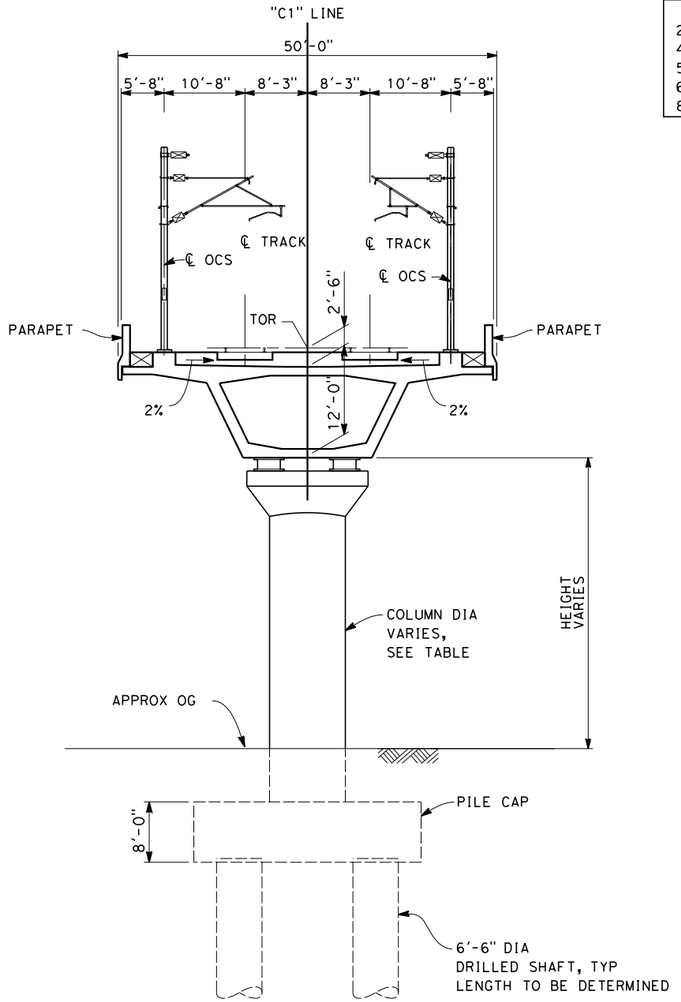
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1394
SCALE AS SHOWN
SHEET NO. 25 OF 28

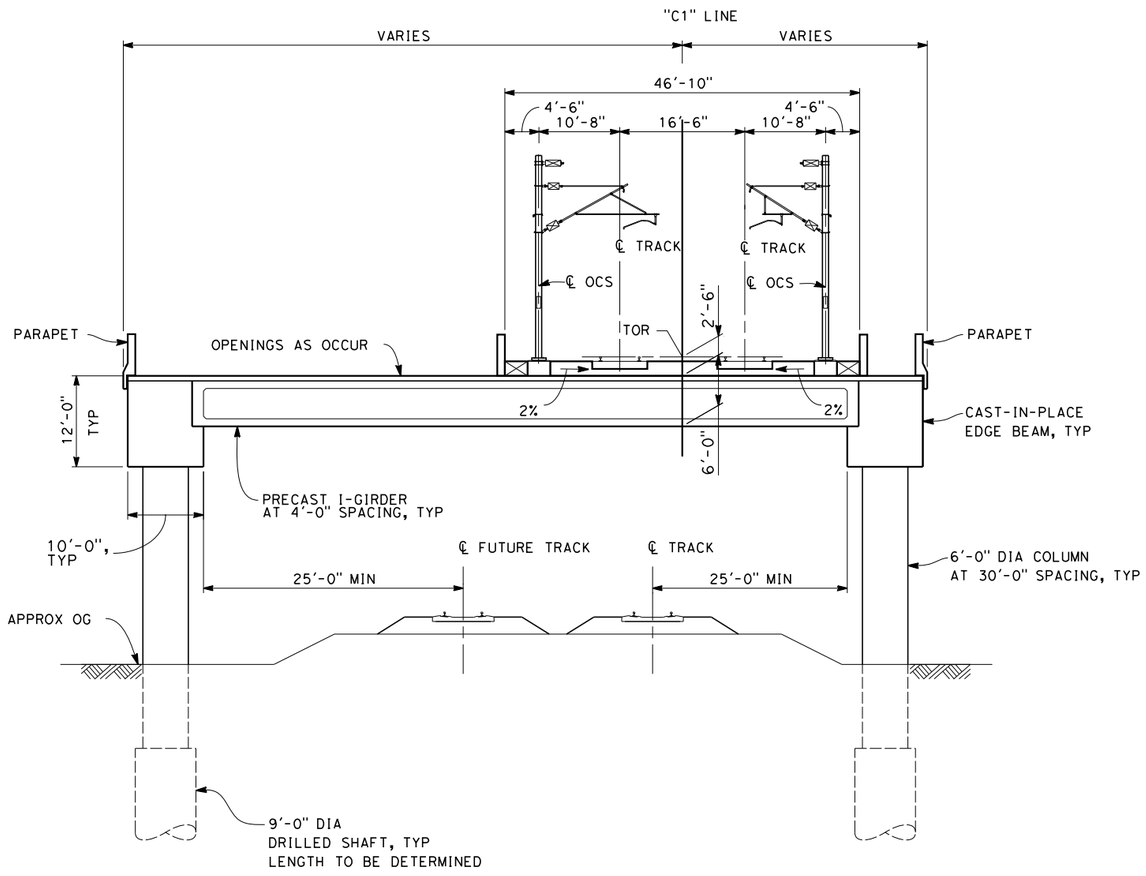
COLUMN DIAMETERS	
COLUMN HEIGHT	DIAMETER
0-20 FT	8 FT
20-40 FT	10 FT
40-50 FT	12 FT
50-60 FT	15 FT
60-80 FT	20 FT
80-100 FT	25 FT



SECTION A

SCALE: 1" = 10'

STA 2705+38 THROUGH 2735+38
STA 2740+18 THROUGH 2772+88
STA 2777+18 THROUGH 2781+88
STA 2786+08 THROUGH 2790+48
STA 2794+48 THROUGH 2795+50
STA 2797+67 THROUGH 2805+68
STA 2809+88 THROUGH 2863+88
STA 2899+54 THROUGH 2935+34



SECTION B

SCALE: 1" = 10'

STA 2863+88 THROUGH 2899+54

10 0 10 20
1"-10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S.T. MAK
DRAWN BY E. SUDHAUSEN
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

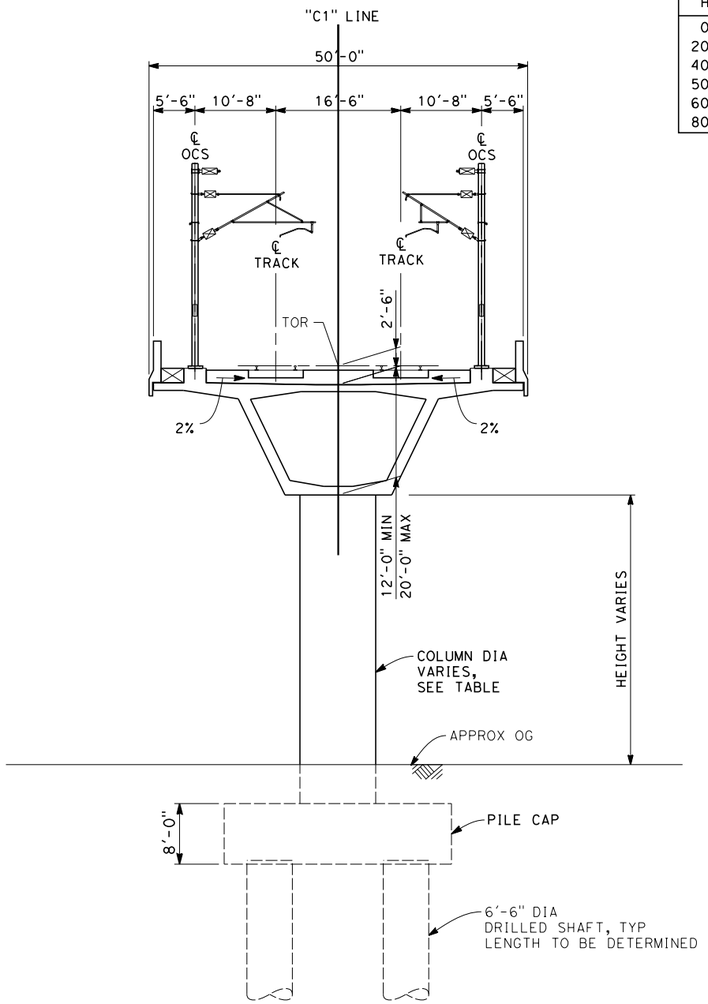
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
TYPICAL SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1395
SCALE AS SHOWN
SHEET NO. 26 OF 28

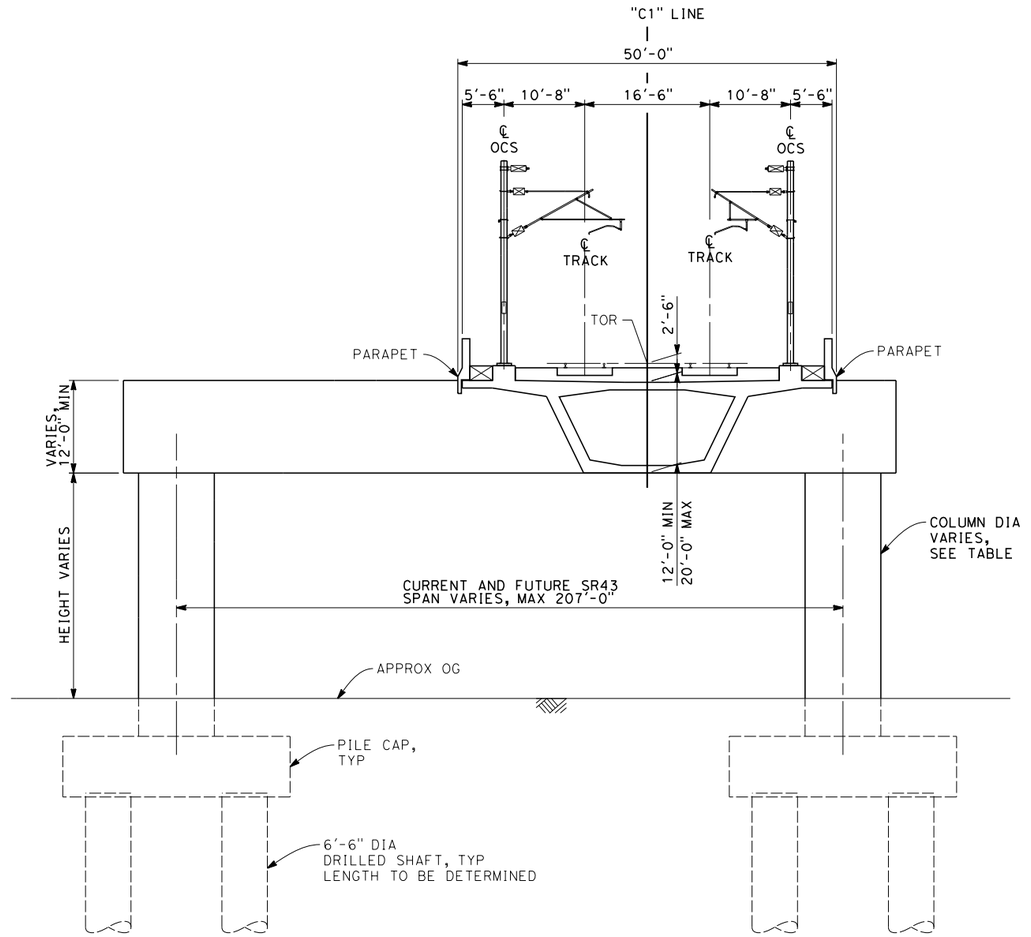
COLUMN DIAMETERS	
COLUMN HEIGHT	DIAMETER
0-20 FT	8 FT
20-40 FT	10 FT
40-50 FT	12 FT
50-60 FT	15 FT
60-80 FT	20 FT
80-100 FT	25 FT



SECTION C

SCALE: 1" = 10'

STA 2772+88 THROUGH 2777+18
STA 2781+88 THROUGH 2786+08
STA 2790+48 THROUGH 2794+48
STA 2805+68 THROUGH 2809+88



SECTION D

SCALE: 1" = 10'

STA 2736+58 THROUGH 2740+18

10 0 10 20
1"-10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

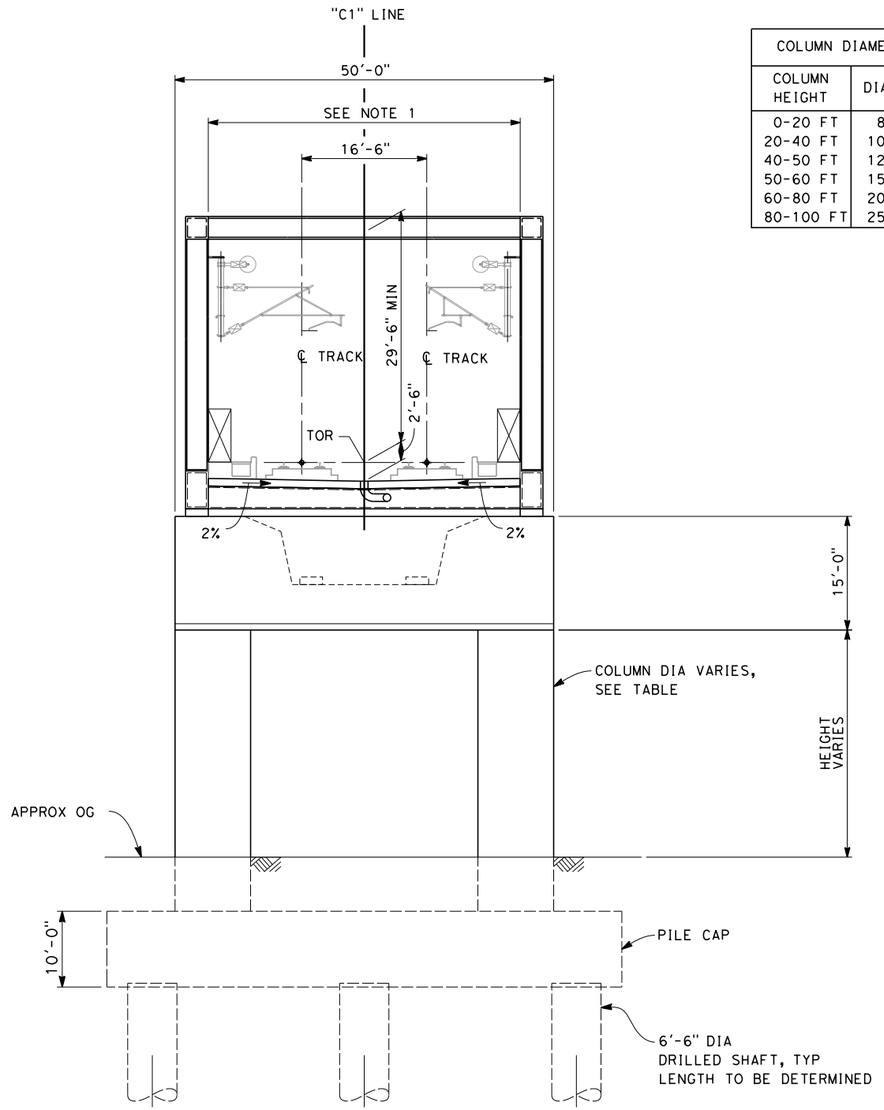
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
TYPICAL SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1396
SCALE AS SHOWN
SHEET NO. 27 OF 28



COLUMN DIAMETERS	
COLUMN HEIGHT	DIAMETER
0-20 FT	8 FT
20-40 FT	10 FT
40-50 FT	12 FT
50-60 FT	15 FT
60-80 FT	20 FT
80-100 FT	25 FT

NOTES

1. TRUSS INTERNAL WIDTH SHALL BE 44'-4" MIN.
   ADDITIONAL WIDTH MAY BE NECESSARY TO ALLOW FOR TRACK SUPERELEVATION.

SECTION E

SCALE: 1" = 10'

STA 2795+50 THROUGH 2797+67

10 0 10 20
1"-10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
CORCORAN VIADUCT
TYPICAL SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV1397
SCALE AS SHOWN
SHEET NO. 28 OF 28

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

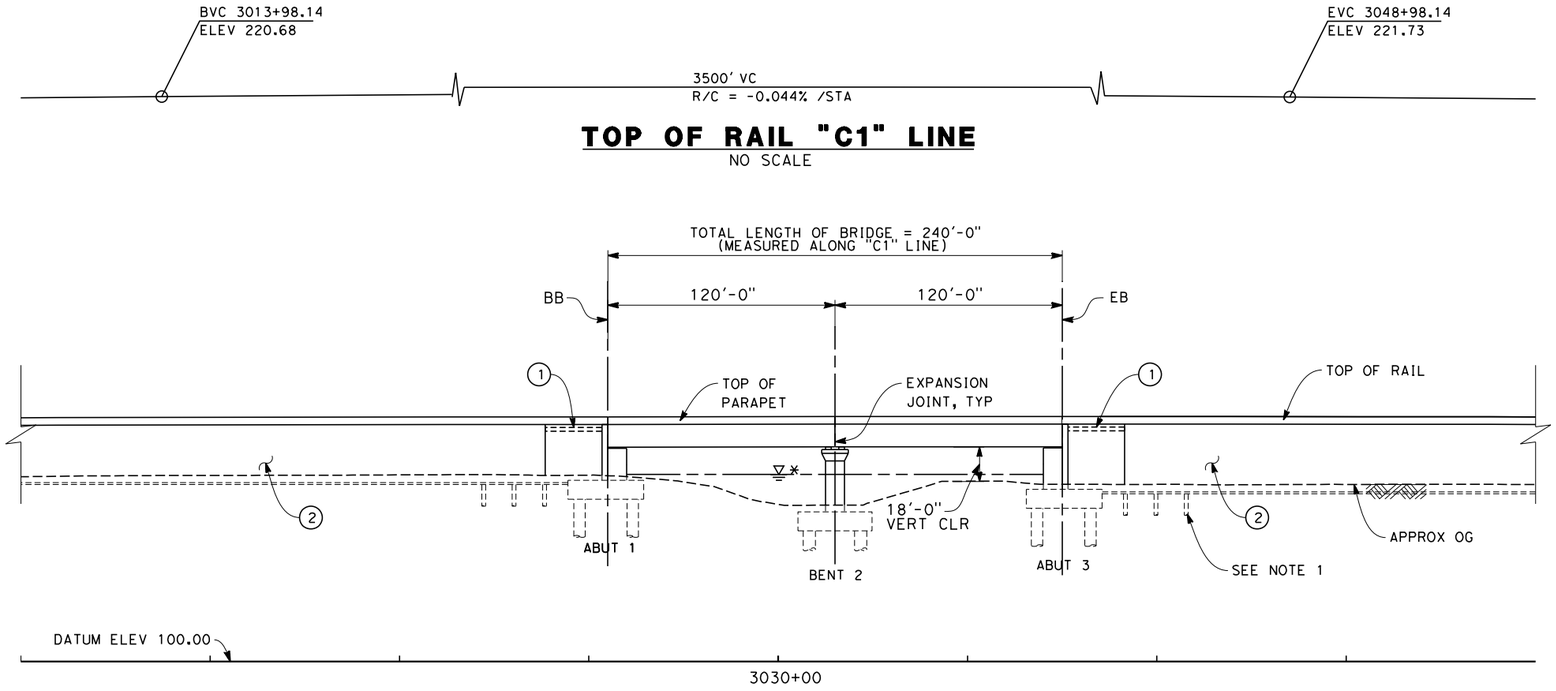
URS | HMM | ARUP
California High-Speed Train

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

CORCORAN SUBSECTION
ALIGNMENT C1
TULE RIVER BRIDGE
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2350
SCALE AS SHOWN
SHEET NO. 1 OF 2

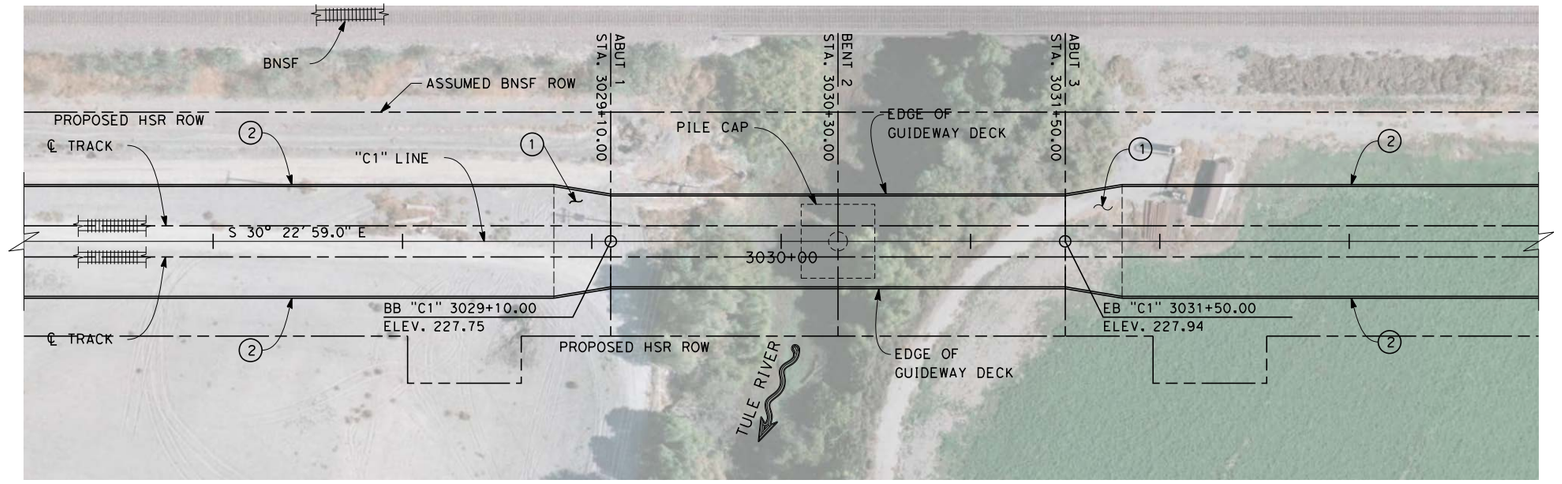


TOP OF RAIL "C1" LINE

NO SCALE

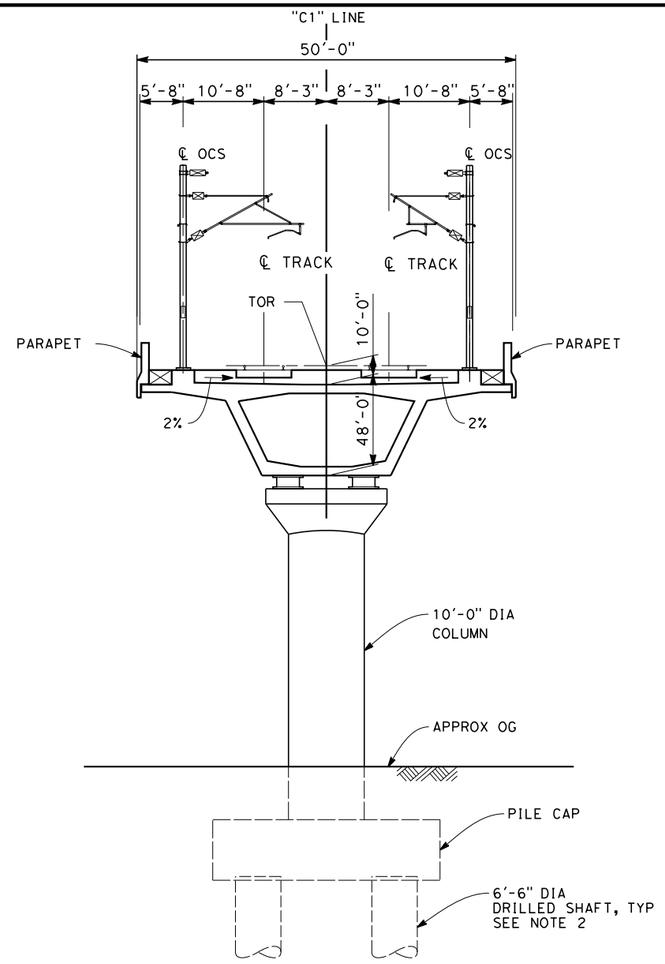
ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'



TYPICAL SECTION

SCALE: 1" = 10'

NOTES:

1. ALL PILES NOT SHOWN
2. PILE LENGTH TO BE DETERMINED

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT"

10 0 10 20 — 1"=10'

40 0 40 80 — 1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. SHEIKH
DRAWN BY J. REILLY
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
TULE RIVER BRIDGE
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2355
SCALE AS SHOWN
SHEET NO. 2 OF 2

frank.palermo 12/28/2013 2:54:52 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\d0125261\FB-SV-2355-C1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY Y. REN
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

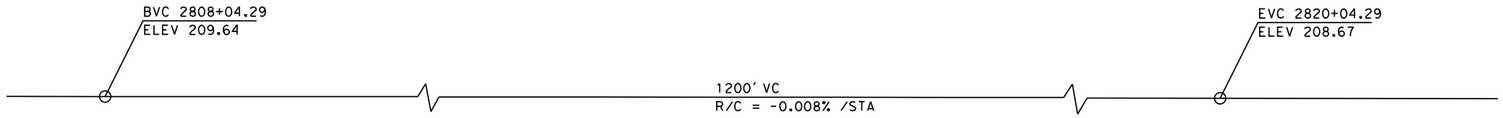
LIRS | HMM | ARUP
California High-Speed Train

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

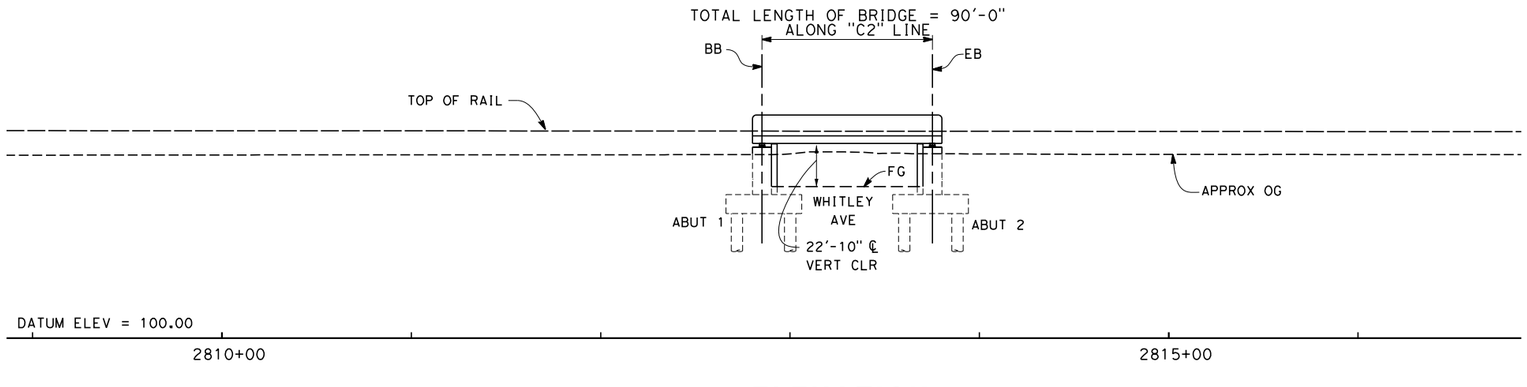
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
WHITLEY AVE/SR137 UNDERPASS
KEY MAP

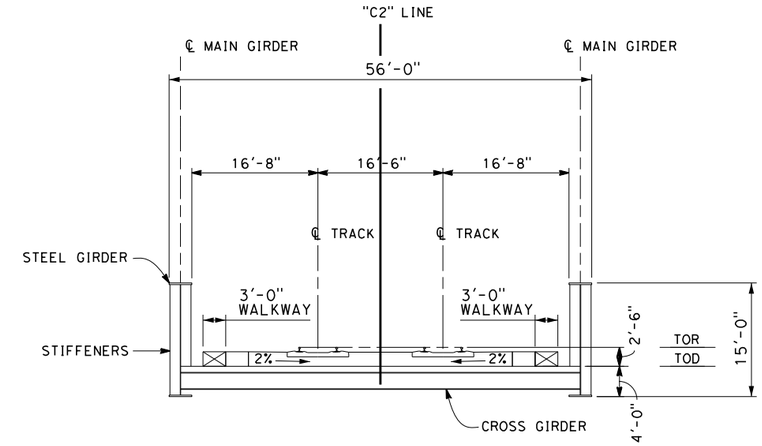
CONTRACT NO. HSR 06-0003
DRAWING NO. SV2445
SCALE AS SHOWN
SHEET NO. 1 OF 2



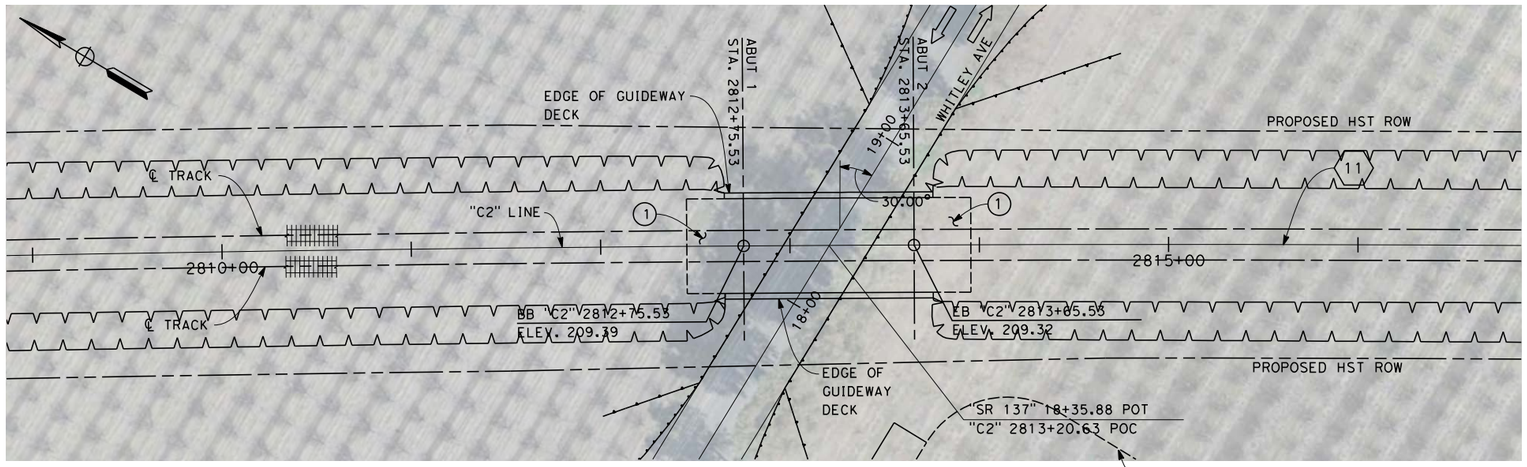
TOP OF RAIL "C2" LINE
NO SCALE



ELEVATION
SCALE 1" = 40'



TYPICAL SECTION
SCALE 1" = 10'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. UTILITY LOCATIONS TO BE DETERMINED

LEGEND:
- (1) STRUCTURE APPROACH SLAB
- (2) RETAINING WALL
- * ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".
- INDICATES RAILROAD AND HIGH-SPEED TRAIN TRACK

CURVE DATA

(11)

R = 32000.00'
Δ = 0° 50' 01.6"
T = 618.5'
L = 15313.7'

10 0 10 20
1"=10'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
WHITLEY AVE/SR137 UNDERPASS
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2446
SCALE AS SHOWN
SHEET NO. 2 OF 2

andrew.armstrong 12/2/2013 11:16:52 AM c:\pwworking\hmm\external\andrew.armstrong-arup.com\d0125238\FB-SV-2446-C2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

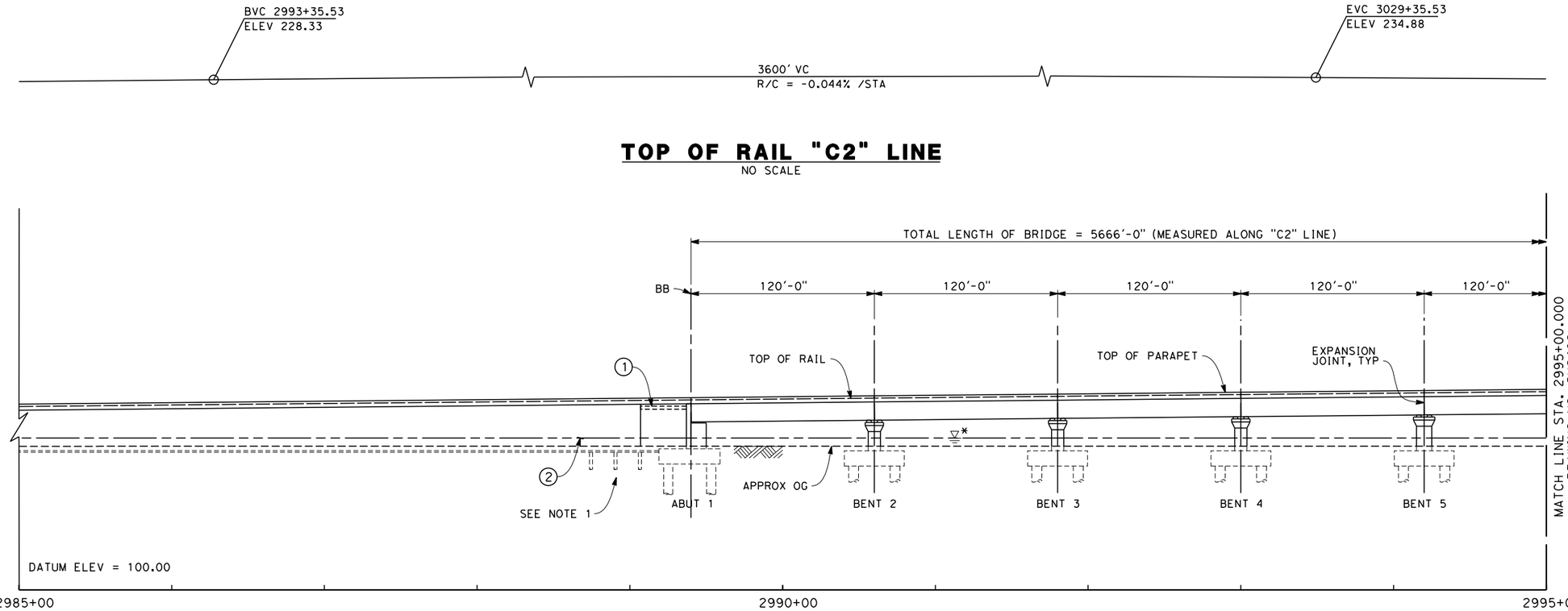
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

LIRS | HMM | ARUP
California High-Speed Train

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
STATE ROUTE 43 BNSF VIADUCT
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2490
SCALE AS SHOWN
SHEET NO. 1 OF 11



NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   - SIMPLE SPANS - MSS OR FLPM
   - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   - STEEL TRUSS - INSITU, SLID OR LAUNCHED
   - ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(12)

R = 41000.00'
Δ = 01° 14' 39.4"
T = 1846.0'
L = 9734.5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

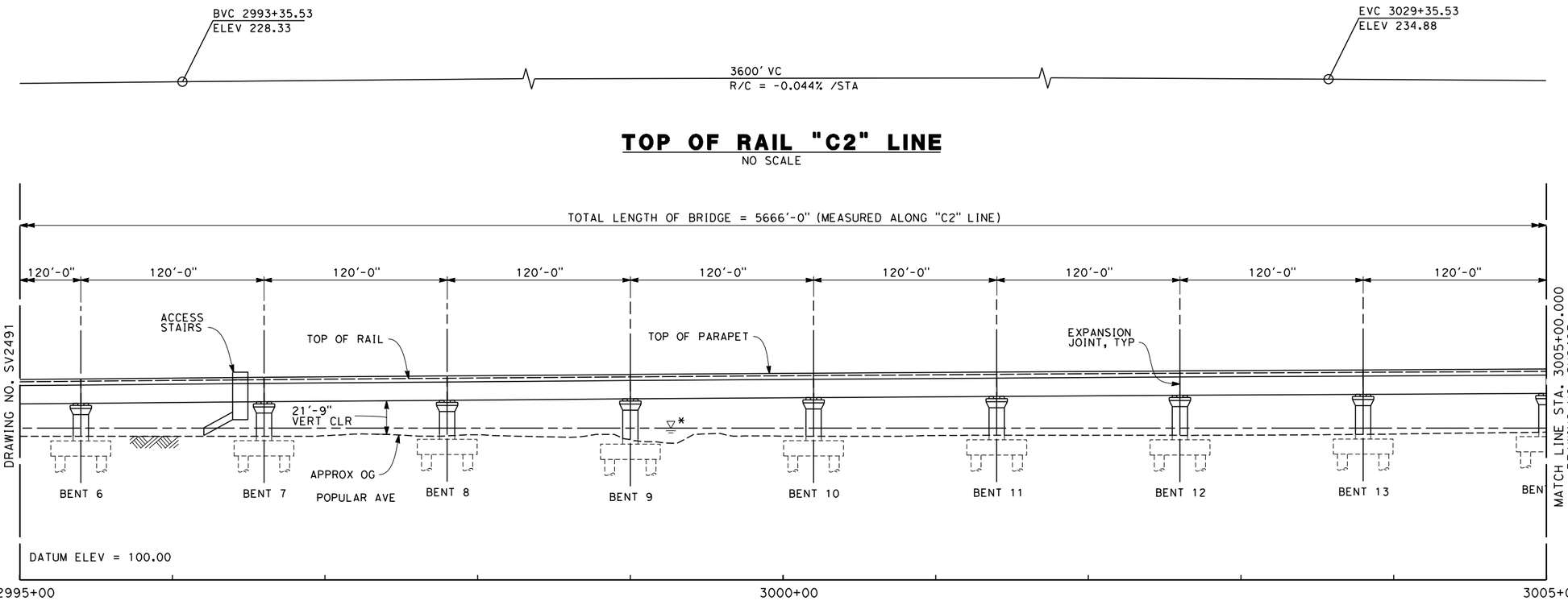
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
STATE ROUTE 43 BNSF VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2491
SCALE AS SHOWN
SHEET NO. 2 OF 11

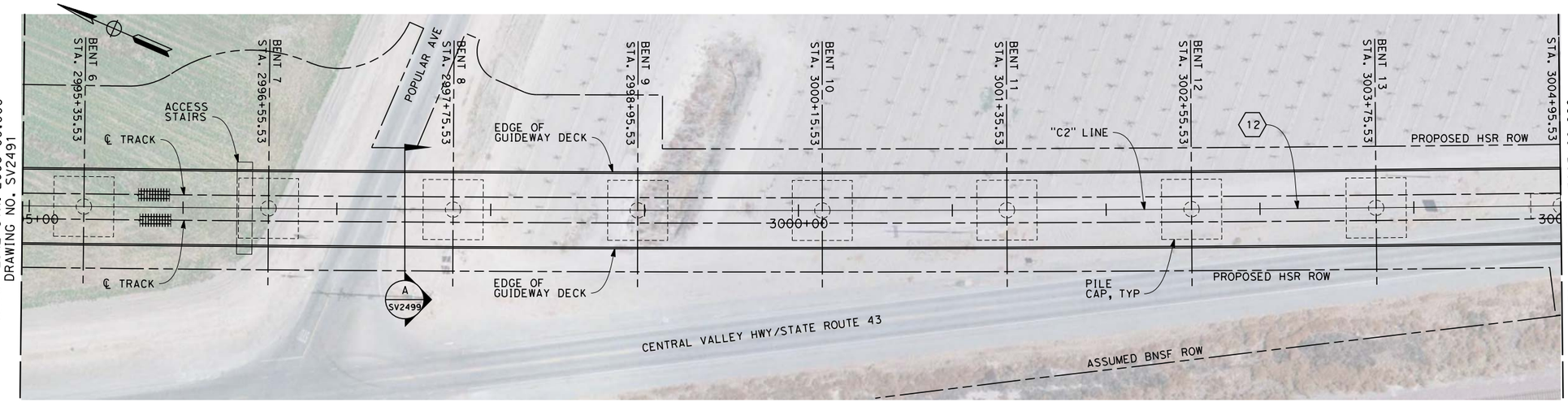


TOP OF RAIL "C2" LINE

NO SCALE

ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(12)

R = 41000.00'
Δ = 01° 14' 39.4"
T = 1846.0'
L = 9734.5'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

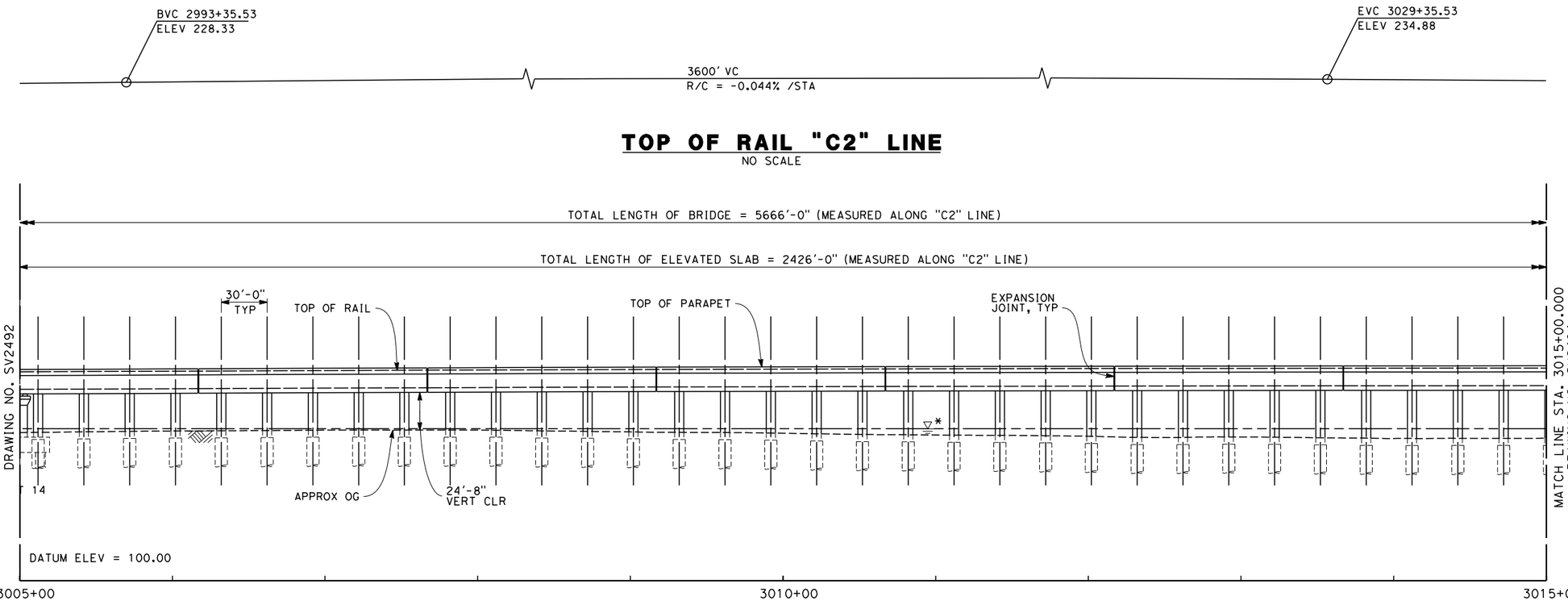
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

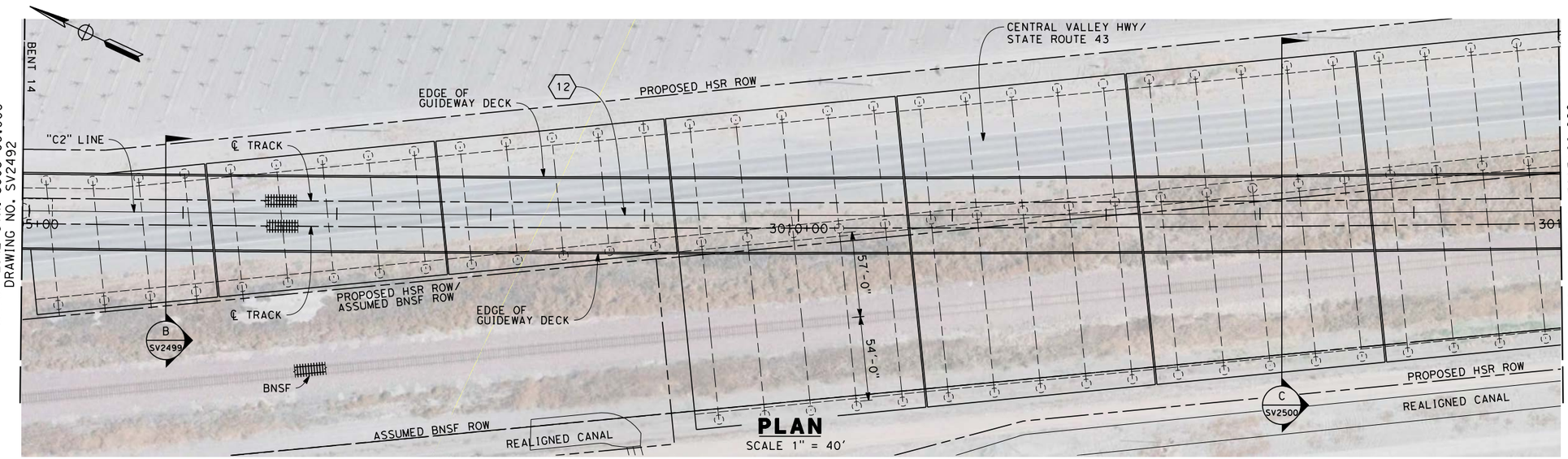
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
STATE ROUTE 43 BNSF VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2492
SCALE AS SHOWN
SHEET NO. 3 OF 11



TOP OF RAIL "C2" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
(1) STRUCTURE APPROACH SLAB
(2) RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA
(12)
R = 41000.00'
Δ = 01° 14' 39.4"
T = 1846.0'
L = 9734.5'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

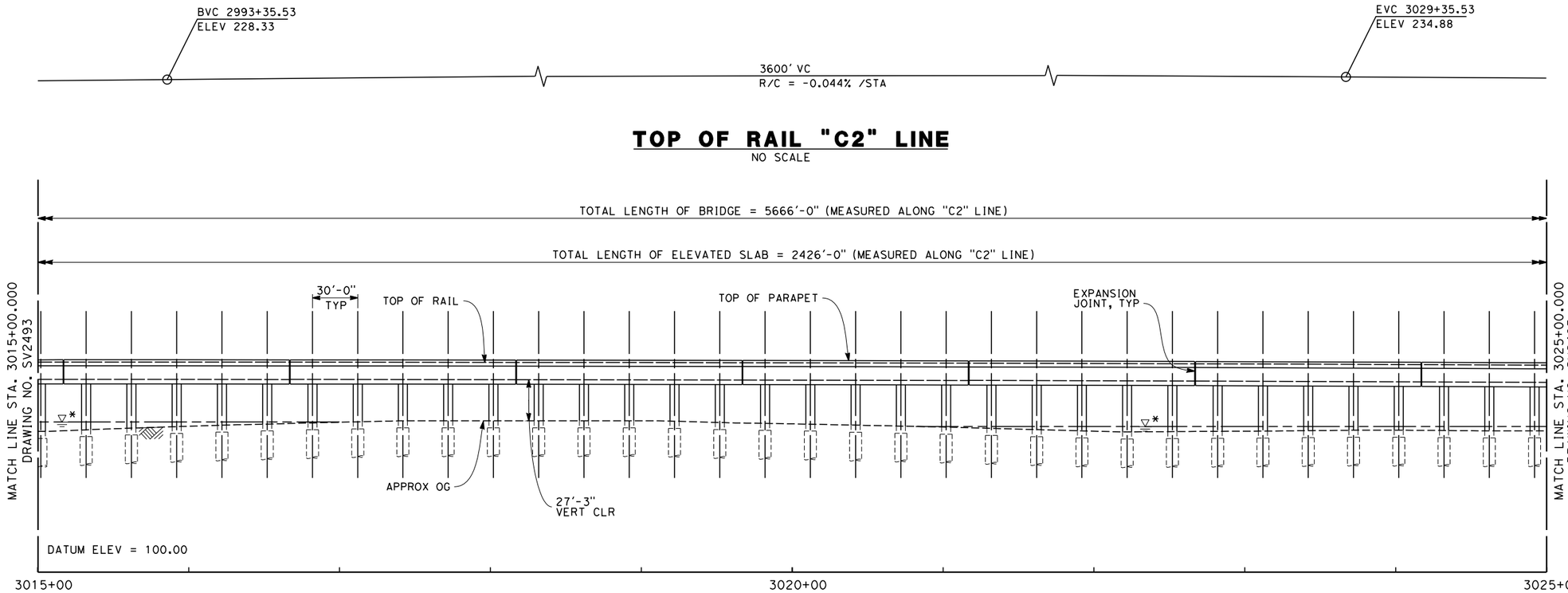
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
STATE ROUTE 43 BNSF VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2493
SCALE AS SHOWN
SHEET NO. 4 OF 11

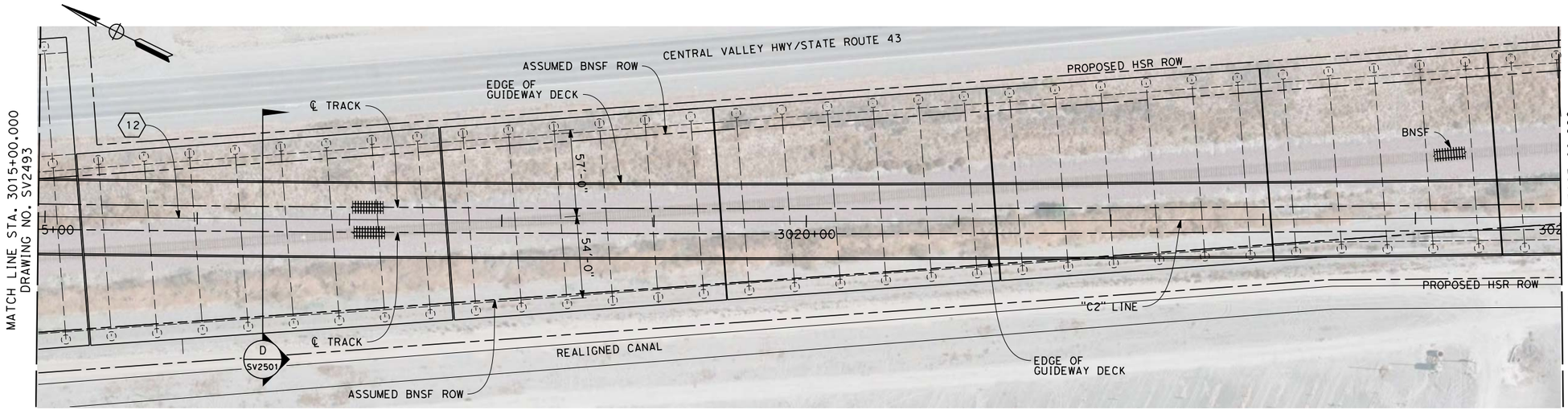


TOP OF RAIL "C2" LINE

NO SCALE

ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   - SIMPLE SPANS - MSS OR FLPM
   - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   - STEEL TRUSS - INSITU, SLID OR LAUNCHED
   - ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(12)

R = 41000.00'
Δ = 01° 14' 39.4"
T = 1846.0'
L = 9734.5'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

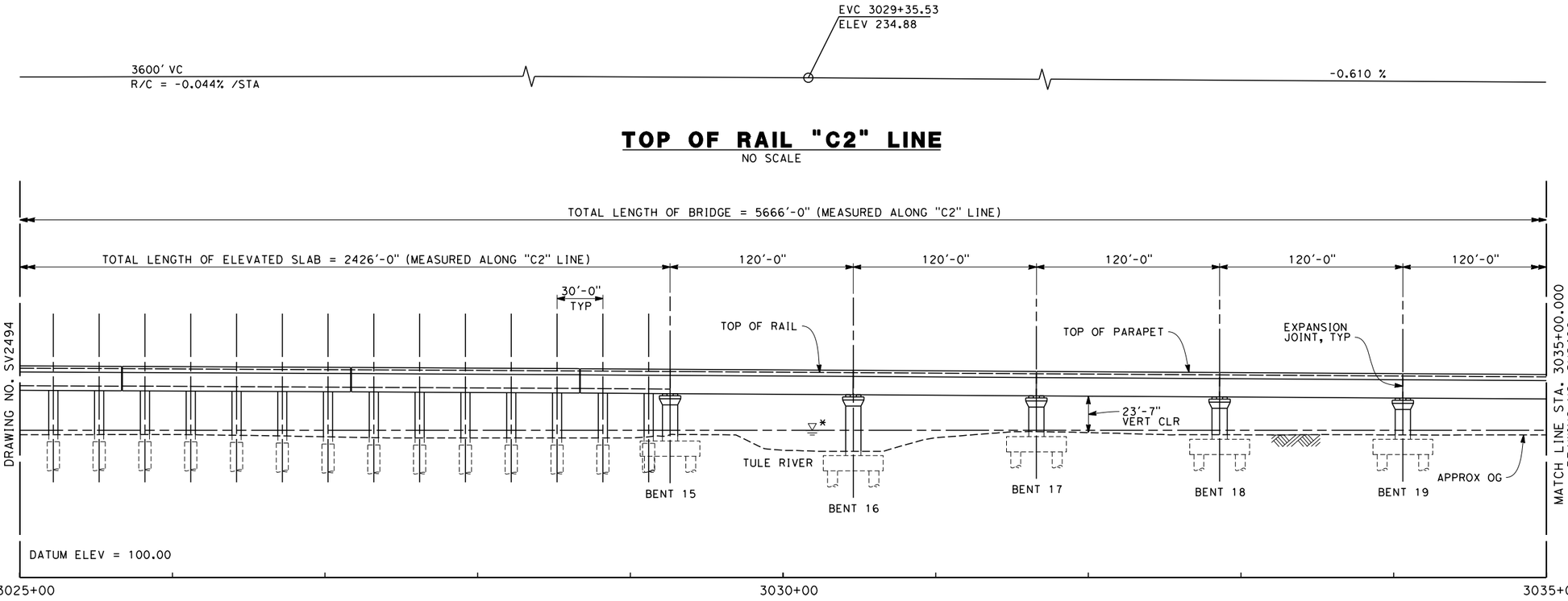
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

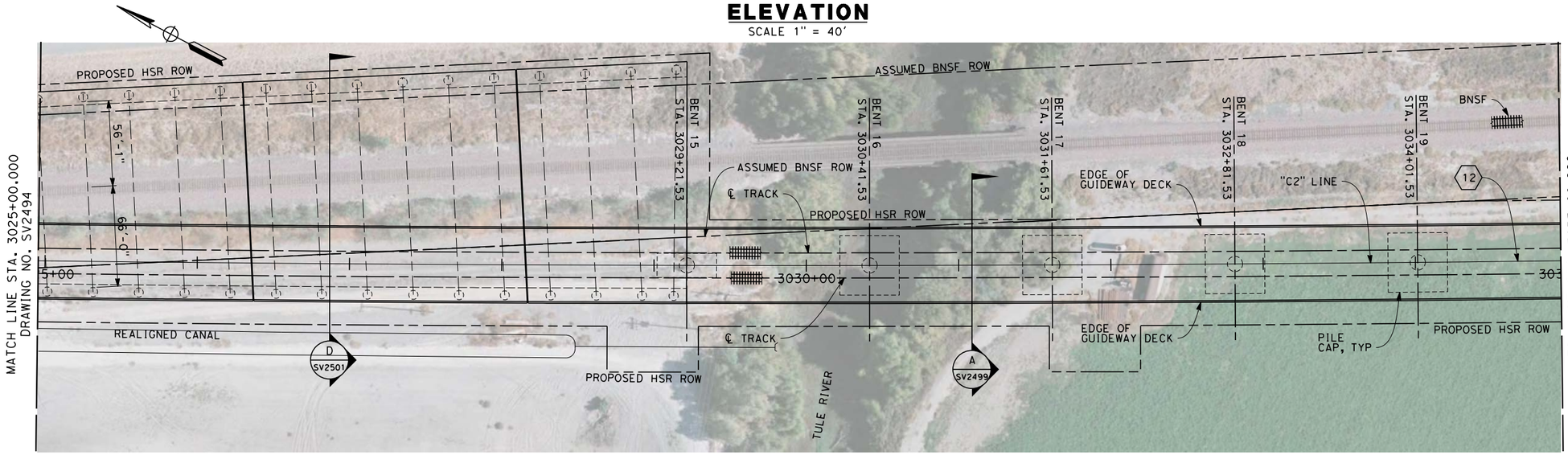
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
STATE ROUTE 43 BNSF VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2494
SCALE AS SHOWN
SHEET NO. 5 OF 11



TOP OF RAIL "C2" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
(1) STRUCTURE APPROACH SLAB
(2) RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA
(12)
R = 41000.00'
Δ = 01° 14' 39.4"
T = 1846.0'
L = 9734.5'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

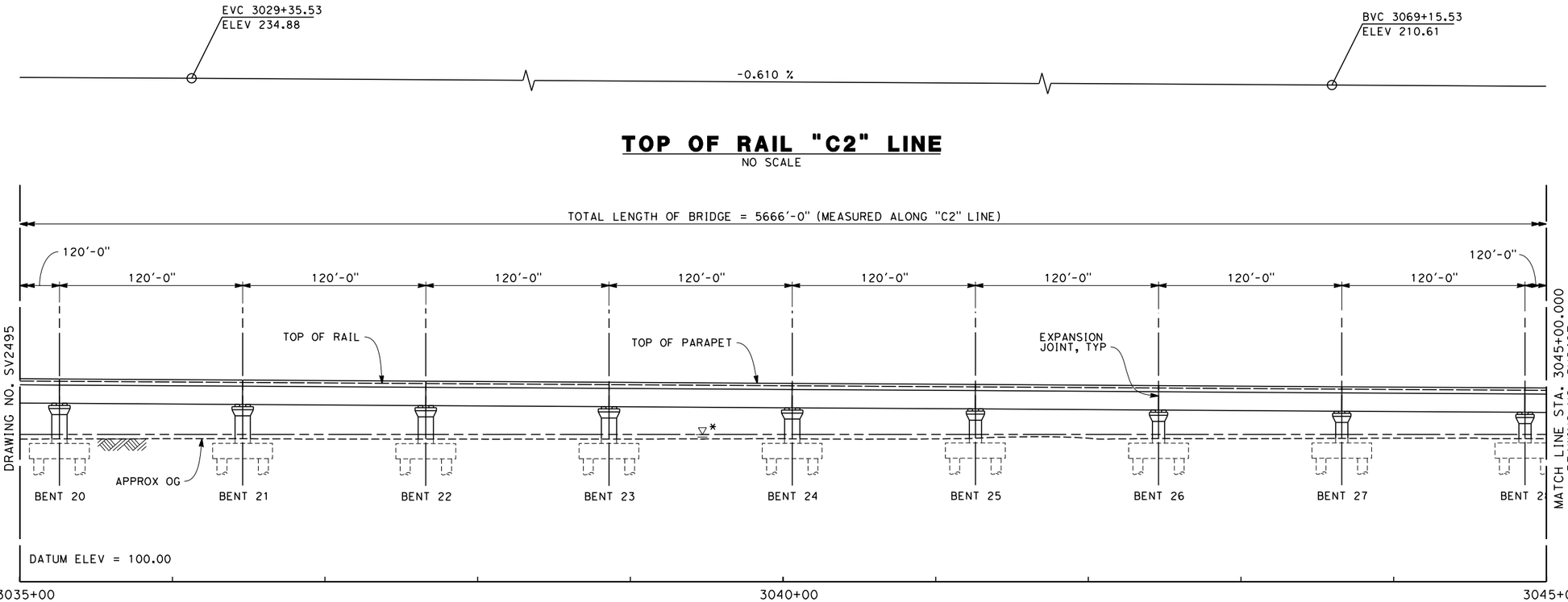
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

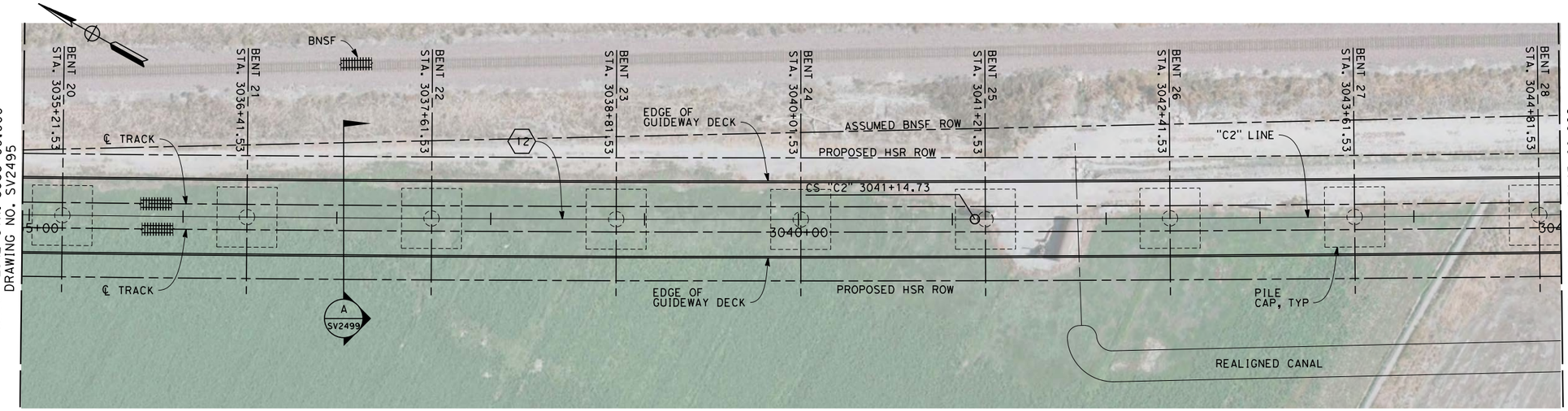
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
STATE ROUTE 43 BNSF VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2495
SCALE AS SHOWN
SHEET NO. 6 OF 11



TOP OF RAIL "C2" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   - SIMPLE SPANS - MSS OR FLPM
   - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   - STEEL TRUSS - INSITU, SLID OR LAUNCHED
   - ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
1. STRUCTURE APPROACH SLAB
2. RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(12)

R = 41000.00'
Δ = 01° 14' 39.4"
T = 1846.0'
L = 9734.5'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

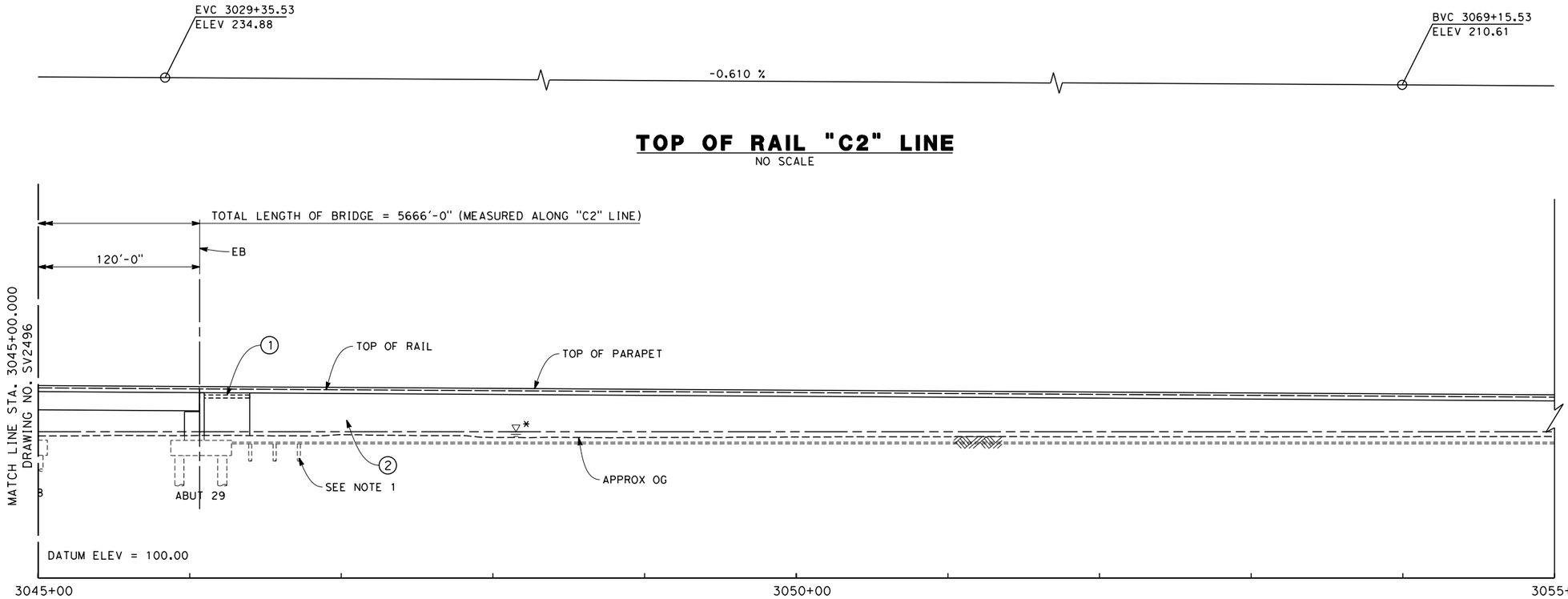
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
STATE ROUTE 43 BNSF VIADUCT
PLAN AND ELEVATION

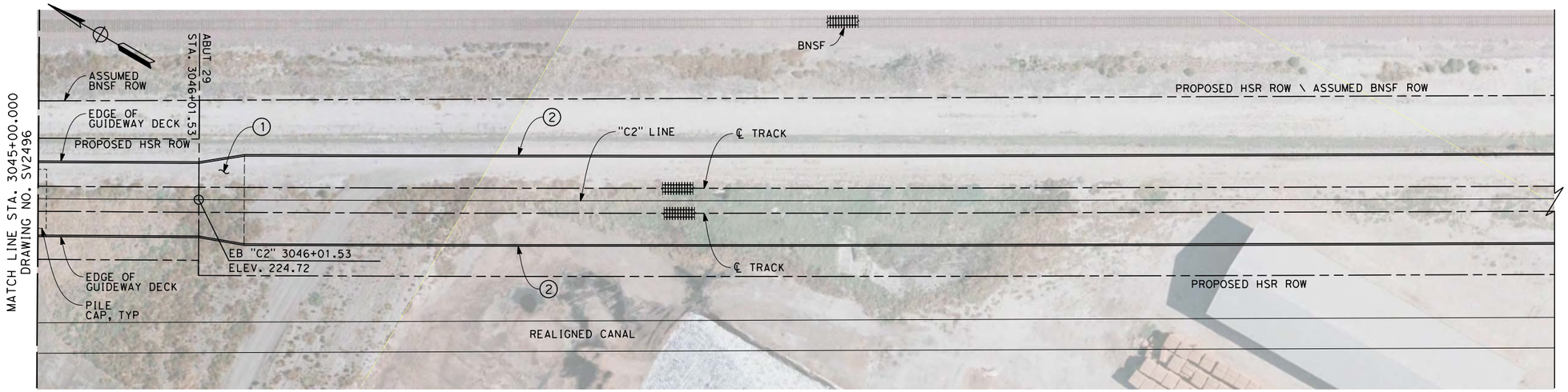
CONTRACT NO. HSR 06-0003
DRAWING NO. SV2496
SCALE AS SHOWN
SHEET NO. 7 OF 11

frank.palermo 12/28/2013 2:20:05 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\d0125238\FB-SV-2496-C2.dgn



TOP OF RAIL "C2" LINE
NO SCALE

ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
1. STRUCTURE APPROACH SLAB
2. RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

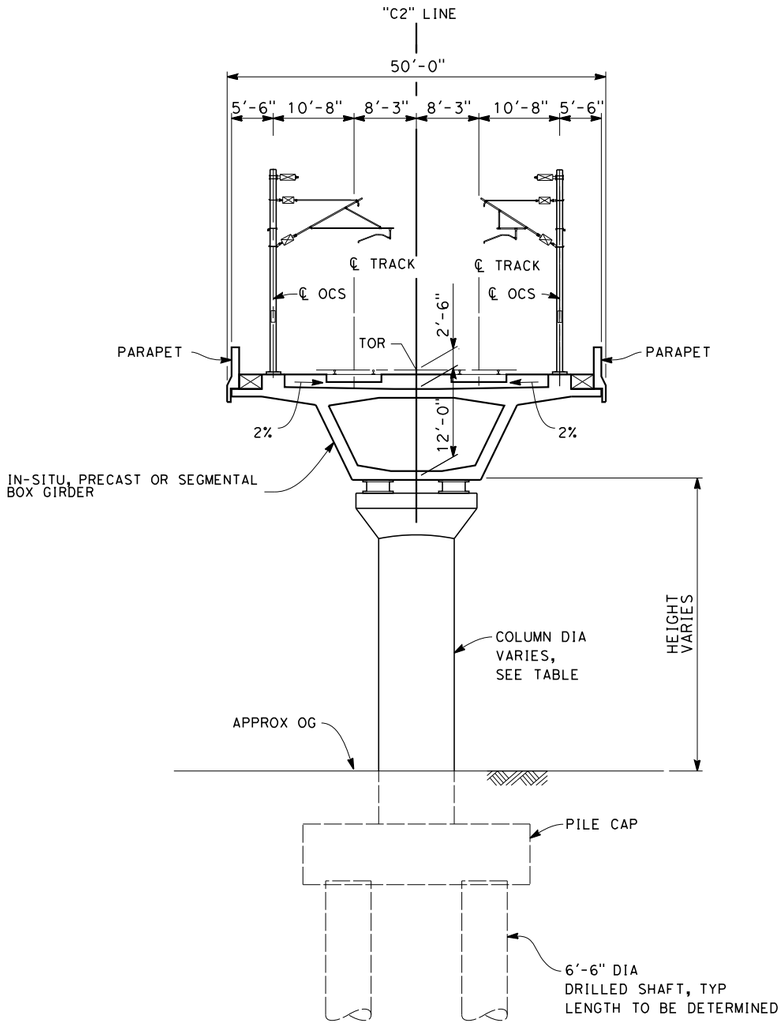
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
STATE ROUTE 43 BNSF VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2497
SCALE AS SHOWN
SHEET NO. 8 OF 11

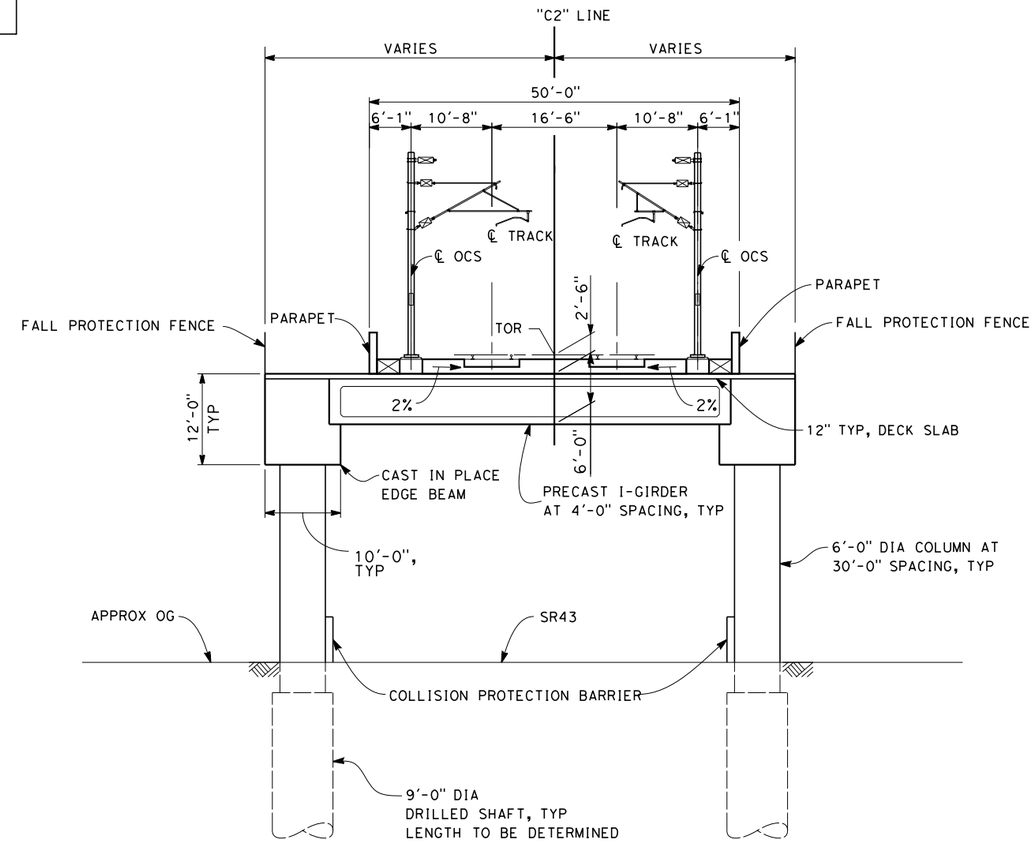
COLUMN DIAMETERS	
COLUMN HEIGHT	DIAMETER
0-20	8 FT
20-40	10 FT
40-50	12 FT
50-60	15 FT
60-80	20 FT
80-100	25 FT



SECTION A

SCALE: 1" = 10'

STA 2989+40 THROUGH 3005+00
STA 3029+26 THROUGH 3046+06



SECTION B

SCALE: 1" = 10'

STA 3005+00 THROUGH 3009+00

NOTES:

1. PIER PROTECTION IS REQUIRED WHERE COLUMN FACE IS CLOSER THAT 54 FT FROM ROADWAY.

10 0 10 20
1"-10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY Y. REN
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

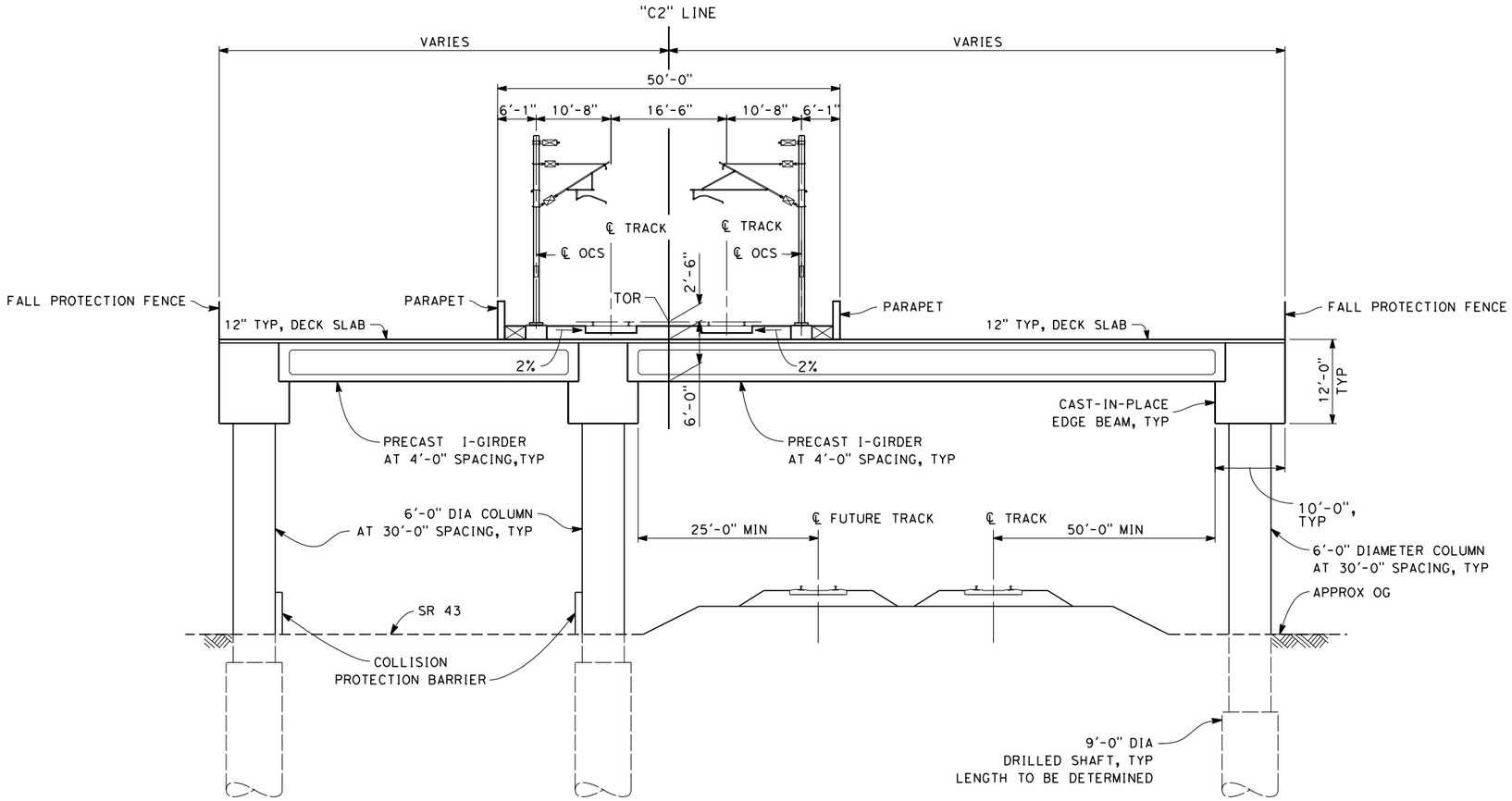
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
STATE ROUTE 43 BNSF VIADUCT
TYPICAL SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2499
SCALE AS SHOWN
SHEET NO. 9 OF 11



NOTES:

1. PIER PROTECTION IS REQUIRED WHERE COLUMN FACE IS CLOSER THAT 54 FT FROM ROADWAY.

SECTION C

SCALE: 1" = 10'

STA 3009+00 THROUGH 3015+20

10 0 10 20
1"-10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY Y. REN
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

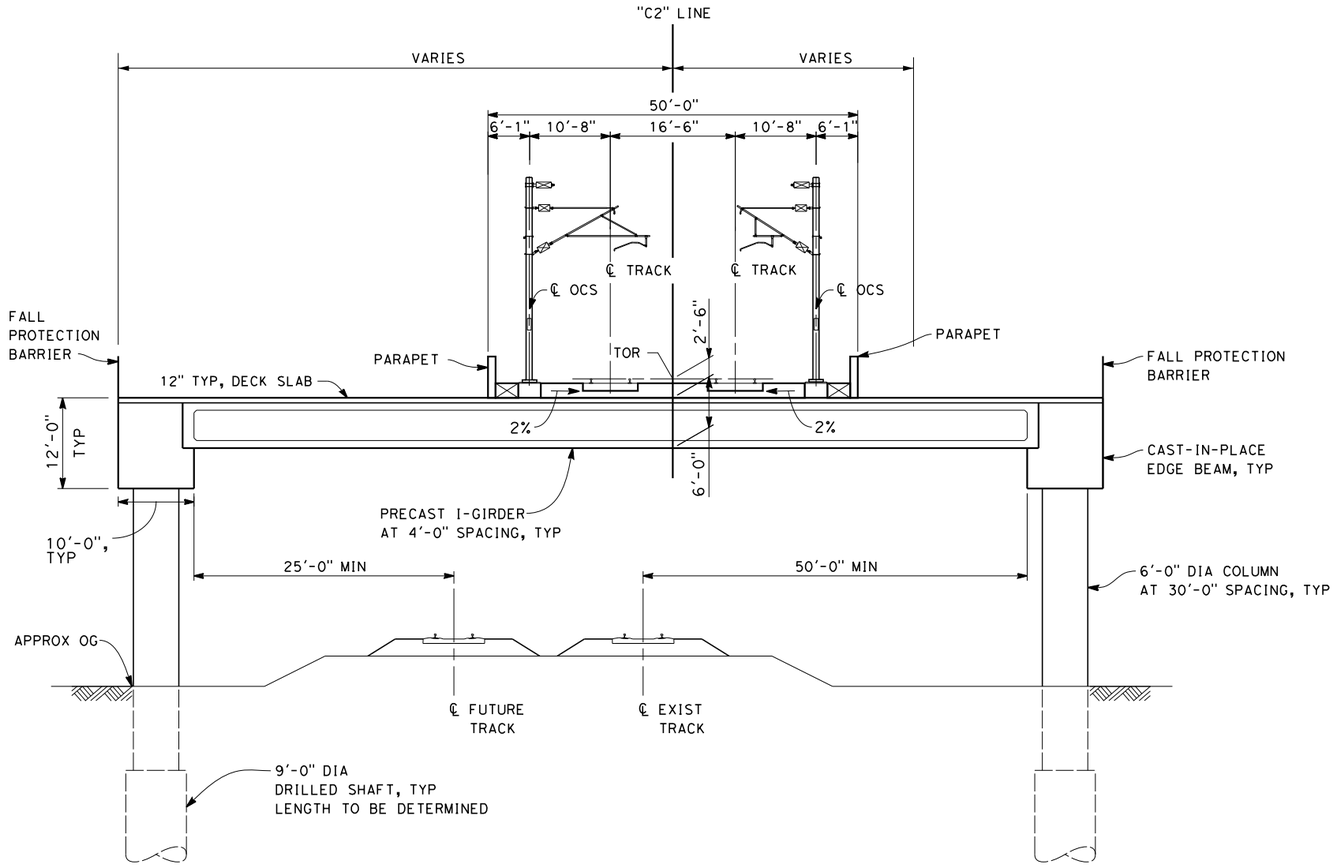
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
California High-Speed Train

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
STATE ROUTE 43 BNSF VIADUCT
TYPICAL SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2500
SCALE AS SHOWN
SHEET NO. 10 OF 11



SECTION D

SCALE: 1" = 10'

STA 3015+20 THROUGH 3029+26

10 0 10 20
1"-10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY Y. REN
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
California High-Speed Train

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
STATE ROUTE 43 BNSF VIADUCT
TYPICAL SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2501
SCALE AS SHOWN
SHEET NO. 11 OF 11

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

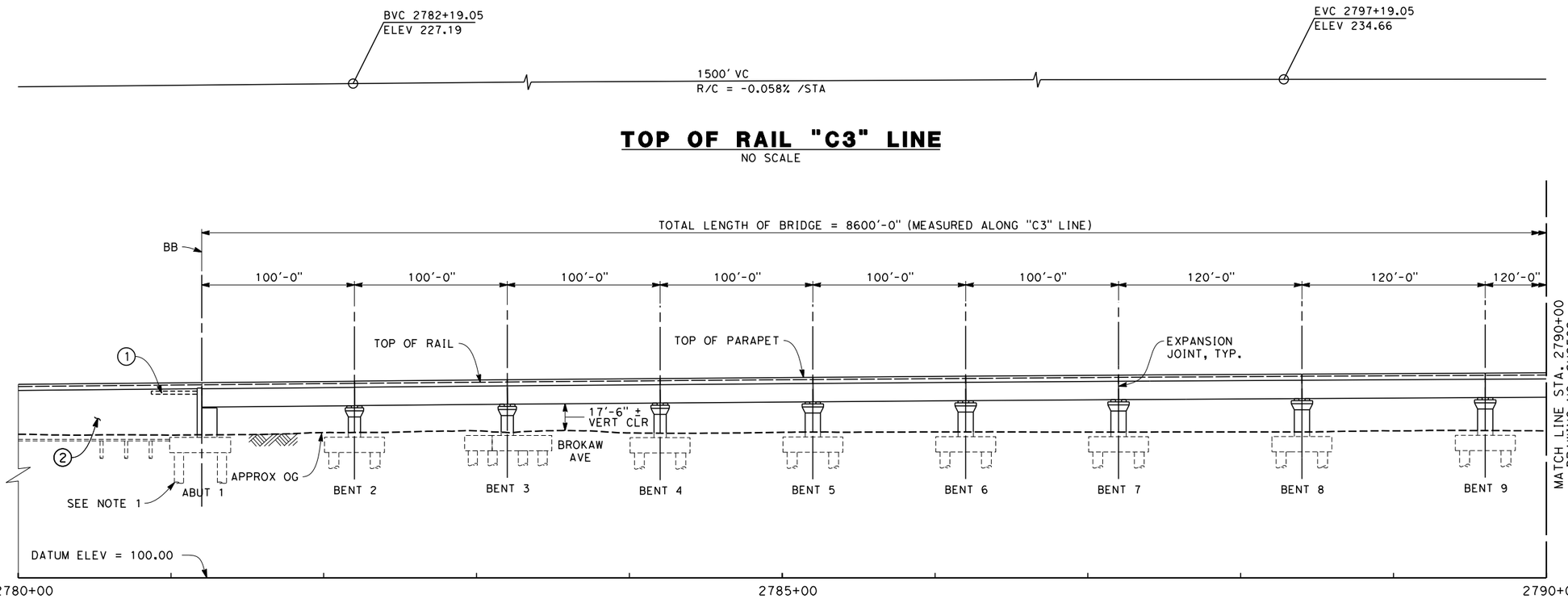
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
BOSWELL SPUR VIADUCT
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2580
SCALE AS SHOWN
SHEET NO. 1 OF 11

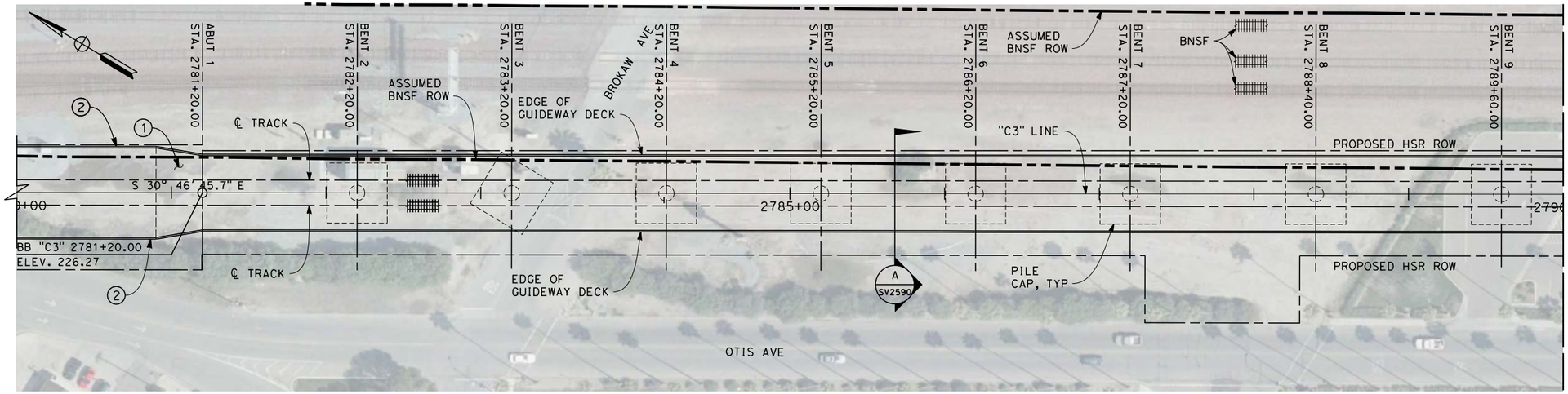


TOP OF RAIL "C3" LINE

NO SCALE

ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

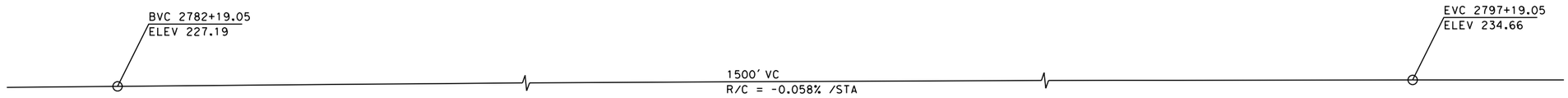
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

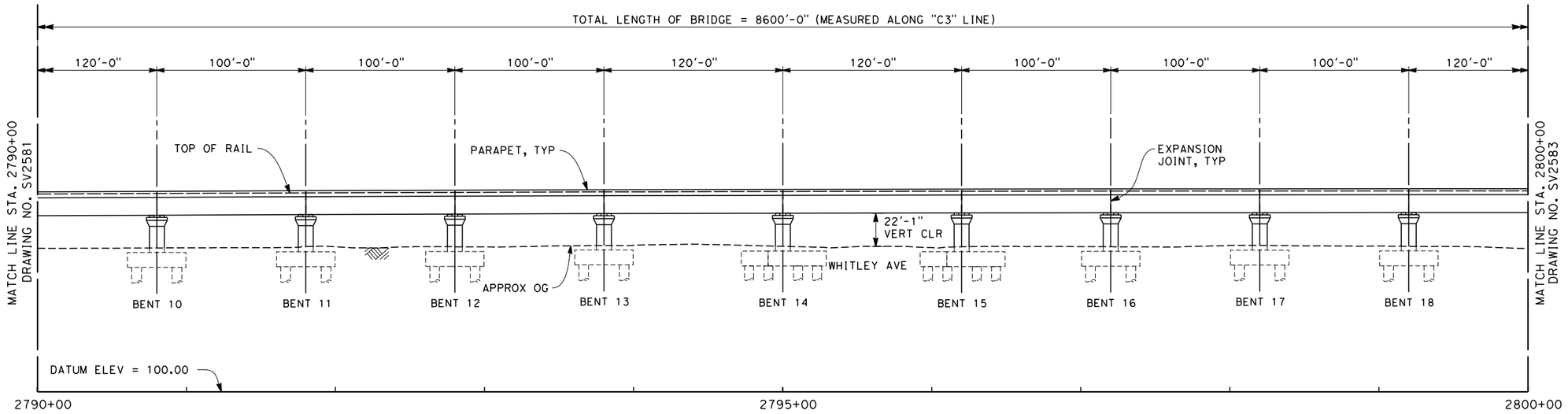
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
BOSWELL SPUR VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2581
SCALE AS SHOWN
SHEET NO. 2 OF 11



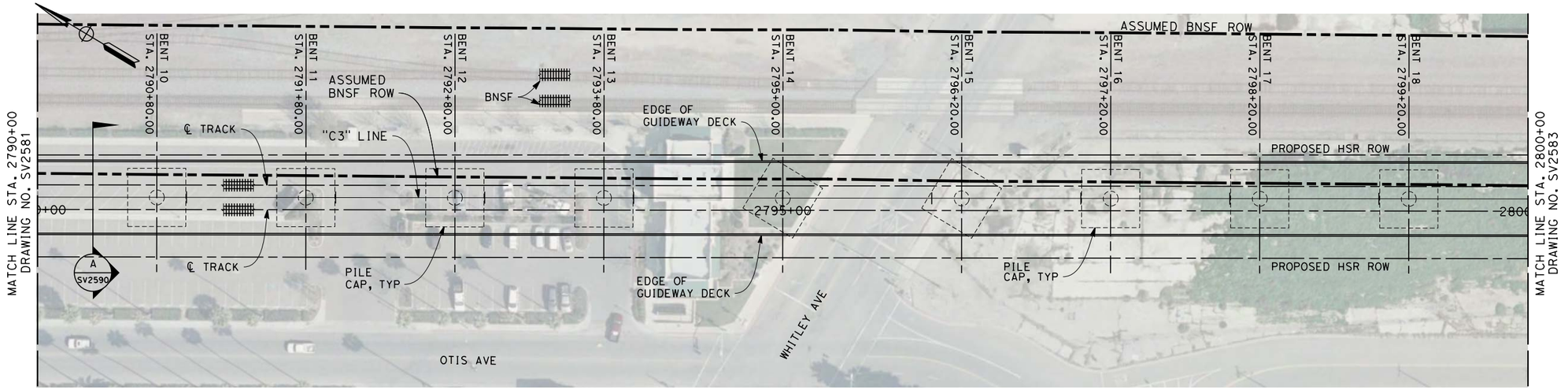
TOP OF RAIL "C3" LINE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

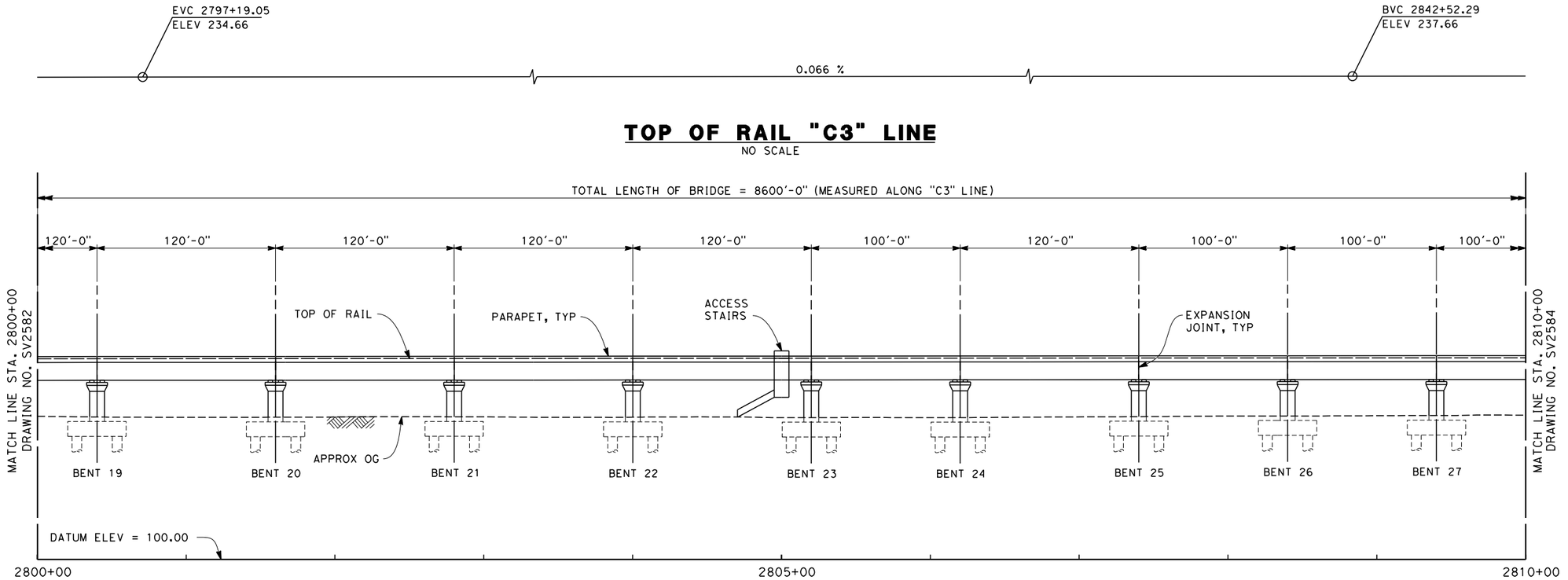
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

CORCORAN SUBSECTION
ALIGNMENT C3
BOSWELL SPUR VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2582
SCALE AS SHOWN
SHEET NO. 3 OF 11

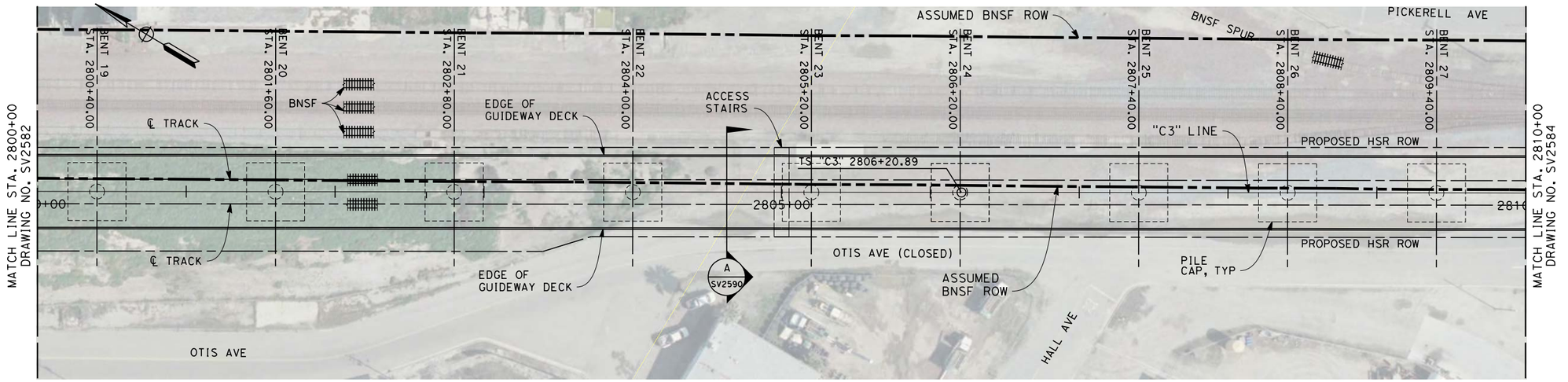


TOP OF RAIL "C3" LINE

NO SCALE

ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

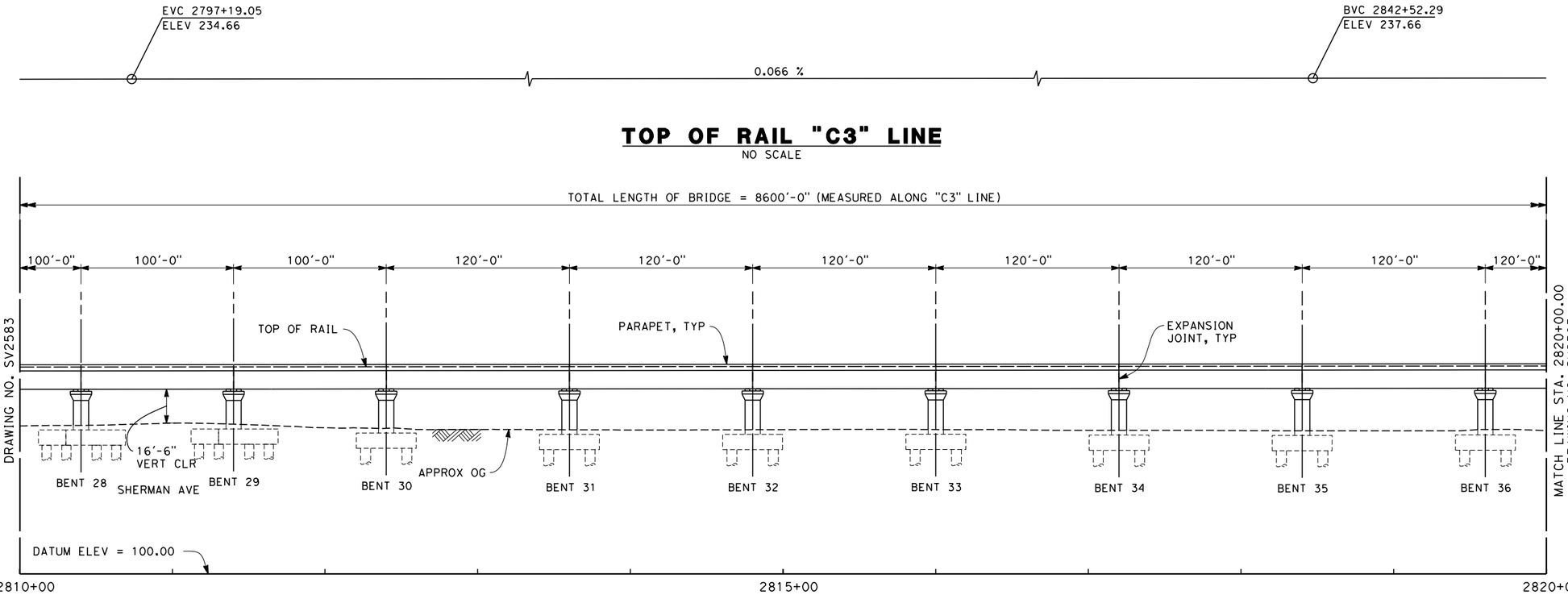
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

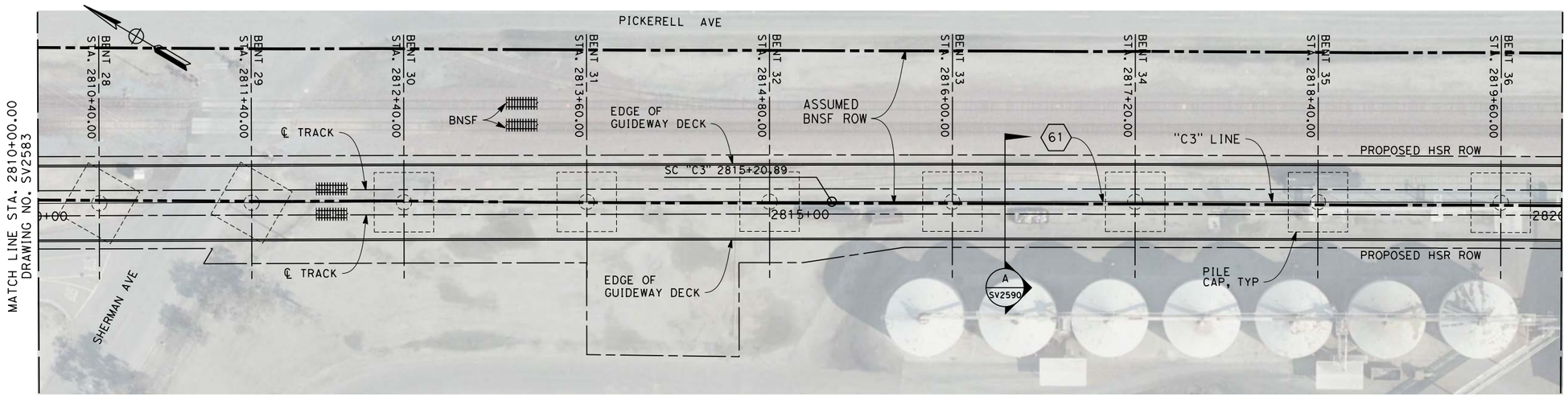
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
BOSWELL SPUR VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2583
SCALE AS SHOWN
SHEET NO. 4 OF 11



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:
(1) STRUCTURE APPROACH SLAB
(2) RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(61)

R = 116500.0'
Δ = 0° 54' 02.5"
T = 915.7'
L = 1831.4'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

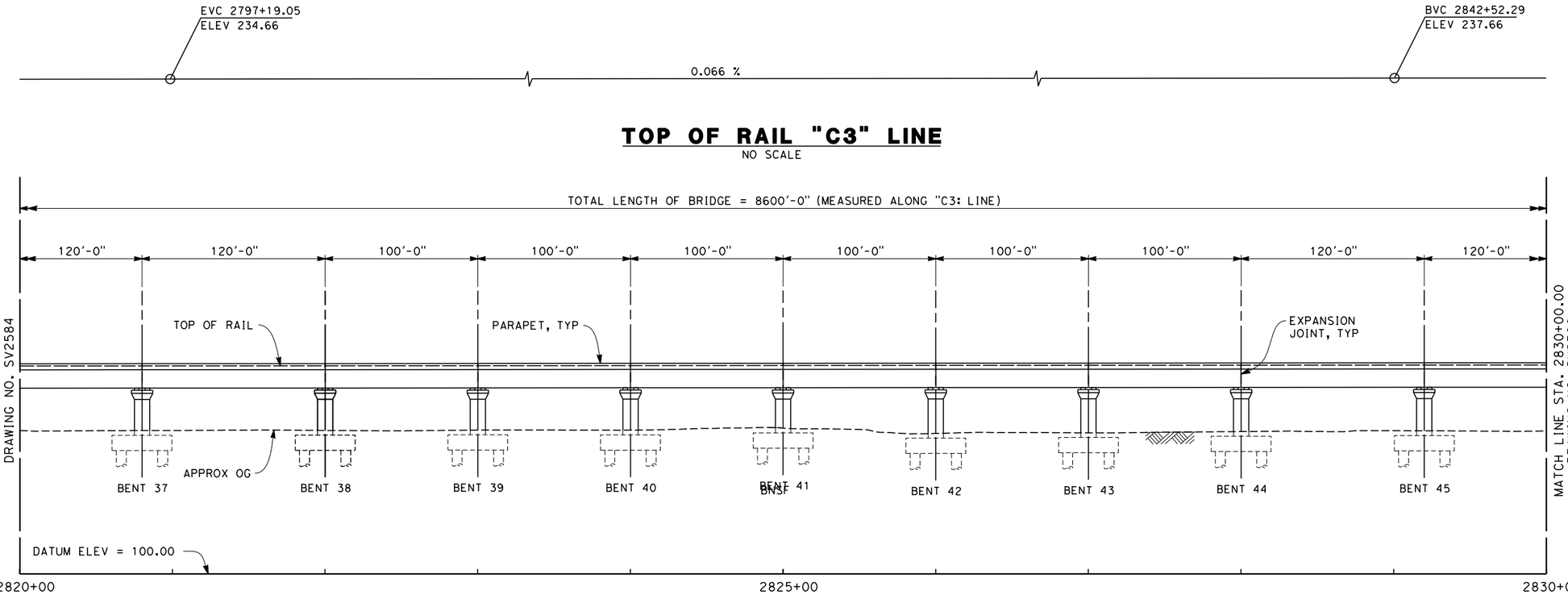
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
BOSWELL SPUR VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2584
SCALE AS SHOWN
SHEET NO. 5 OF 11

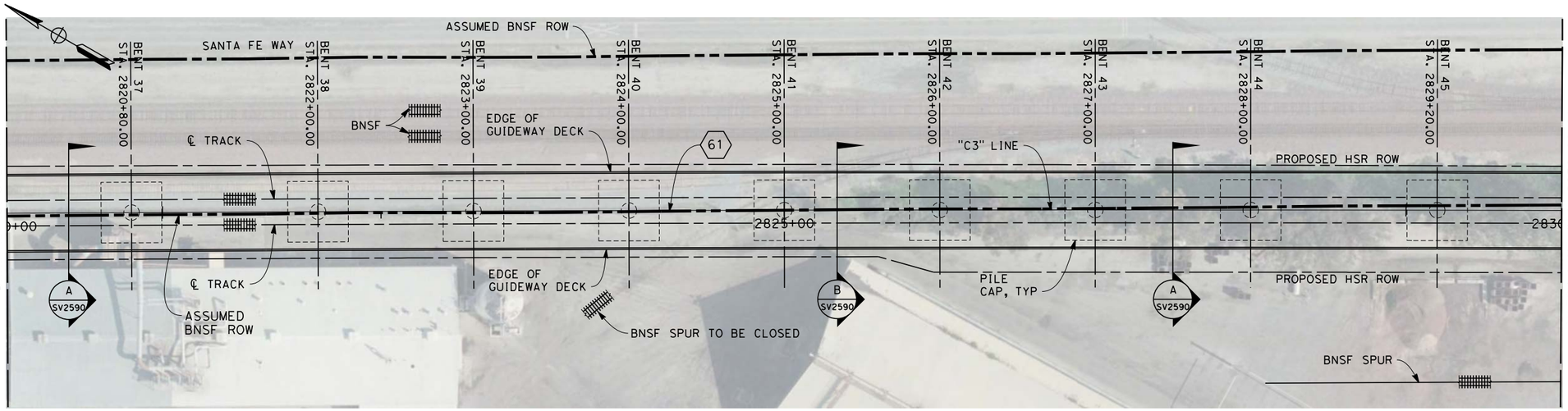


TOP OF RAIL "C3" LINE

NO SCALE

ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   - SIMPLE SPANS - MSS OR FLPM
   - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   - STEEL TRUSS - INSITU, SLID OR LAUNCHED
   - ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

(61)

R = 116500.0'

Δ = 0° 54' 02.5"

T = 915.7'

L = 1831.4'

40 0 40 80

1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

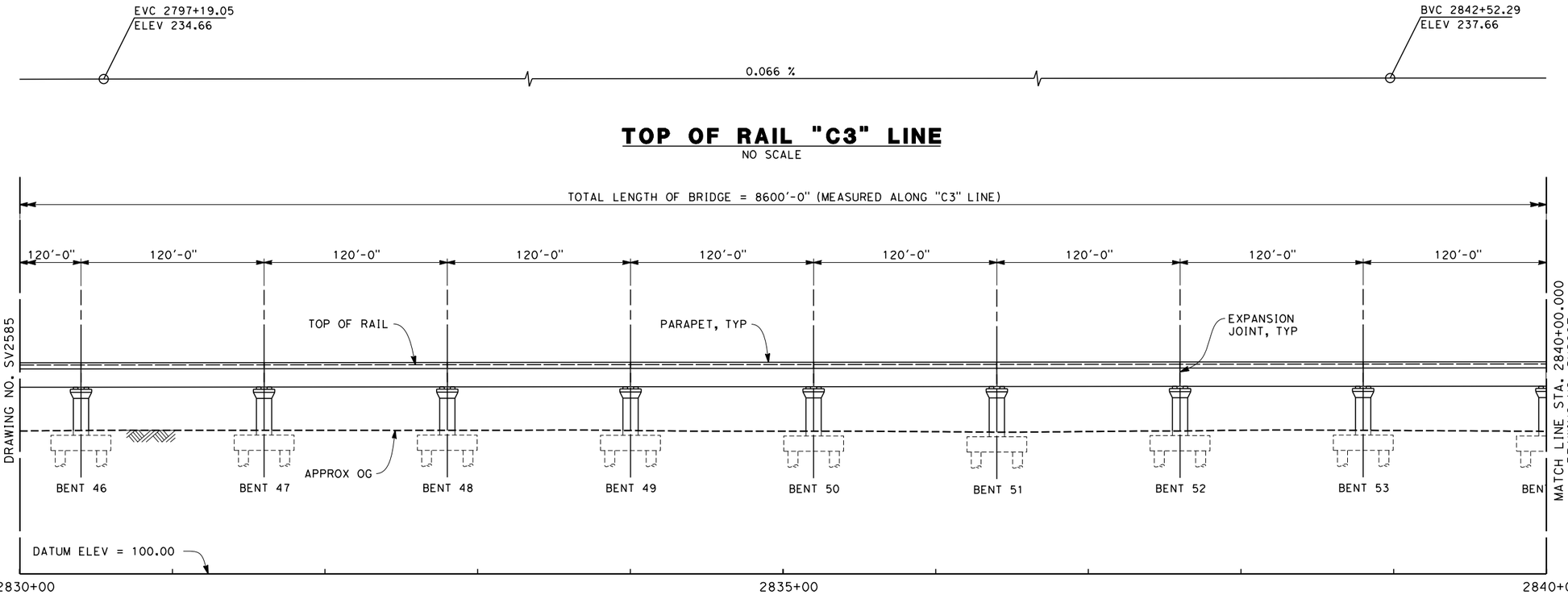
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
BOSWELL SPUR VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2585
SCALE AS SHOWN
SHEET NO. 6 OF 11



NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

61

R = 116500.0'

Δ = 0° 54' 02.5"

T = 915.7'

L = 1831.4'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

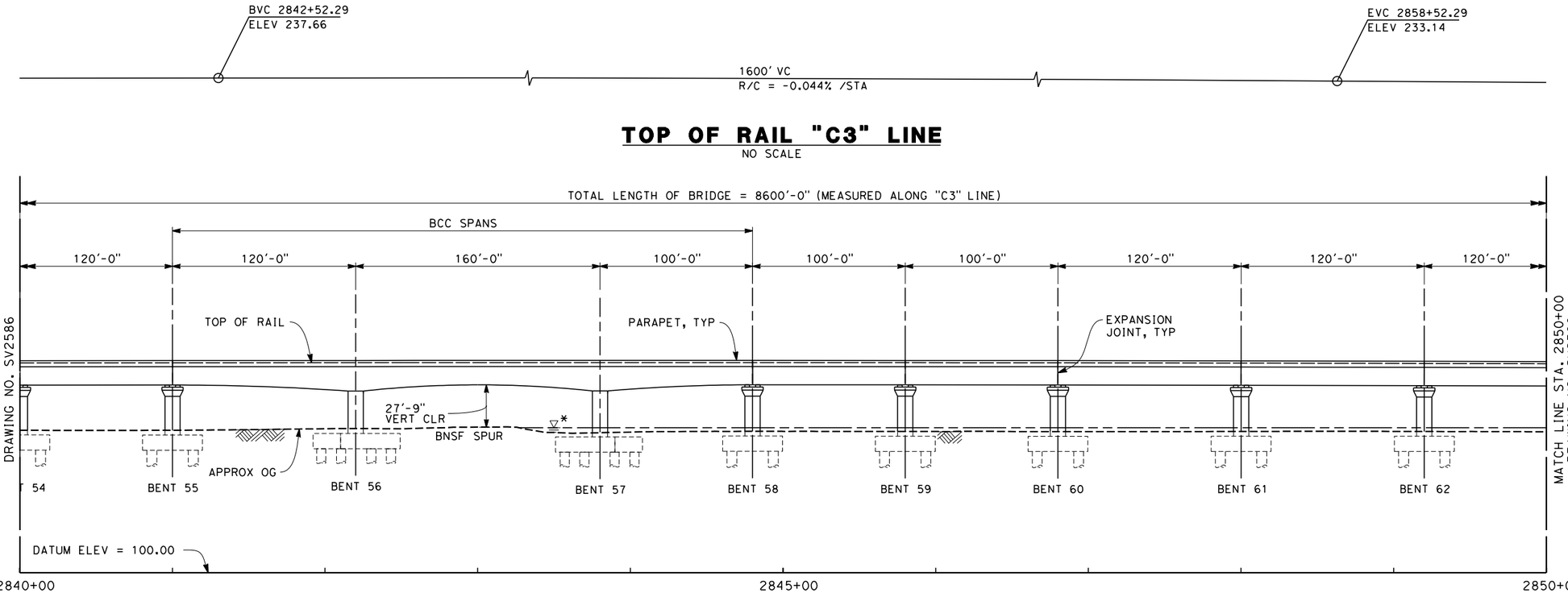
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
BOSWELL SPUR VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2586
SCALE AS SHOWN
SHEET NO. 7 OF 11

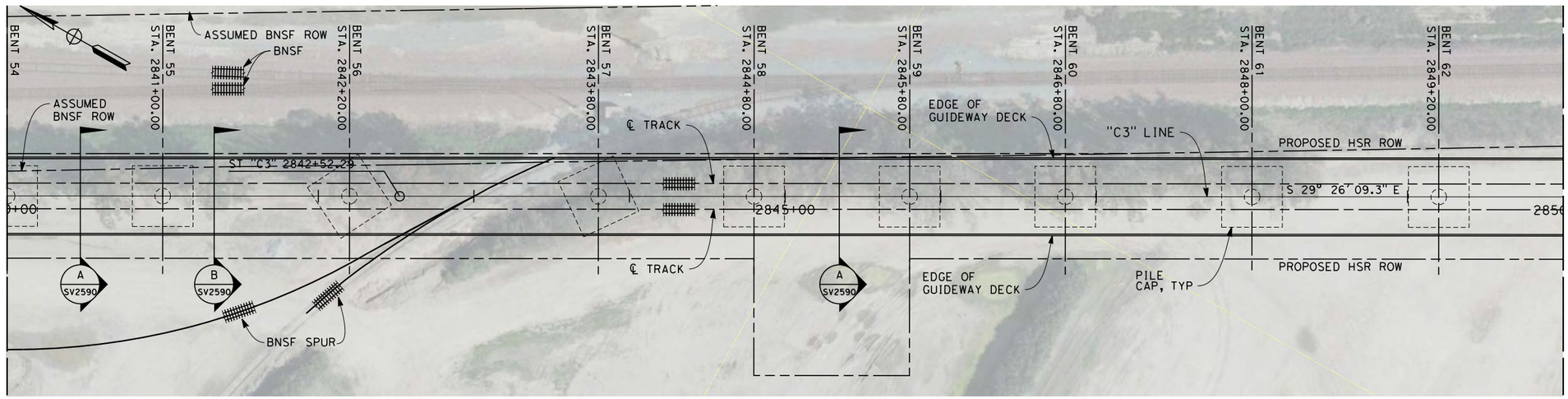


TOP OF RAIL "C3" LINE

NO SCALE

ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   - SIMPLE SPANS - MSS OR FLPM
   - CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   - STEEL TRUSS - INSITU, SLID OR LAUNCHED
   - ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80

1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

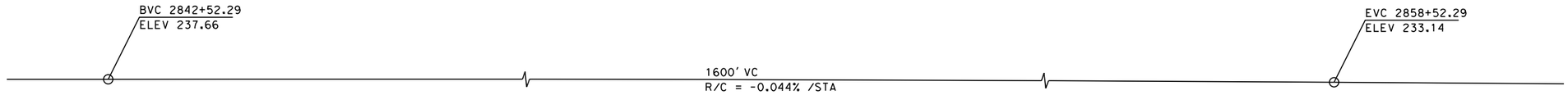
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
BOSWELL SPUR VIADUCT
PLAN AND ELEVATION

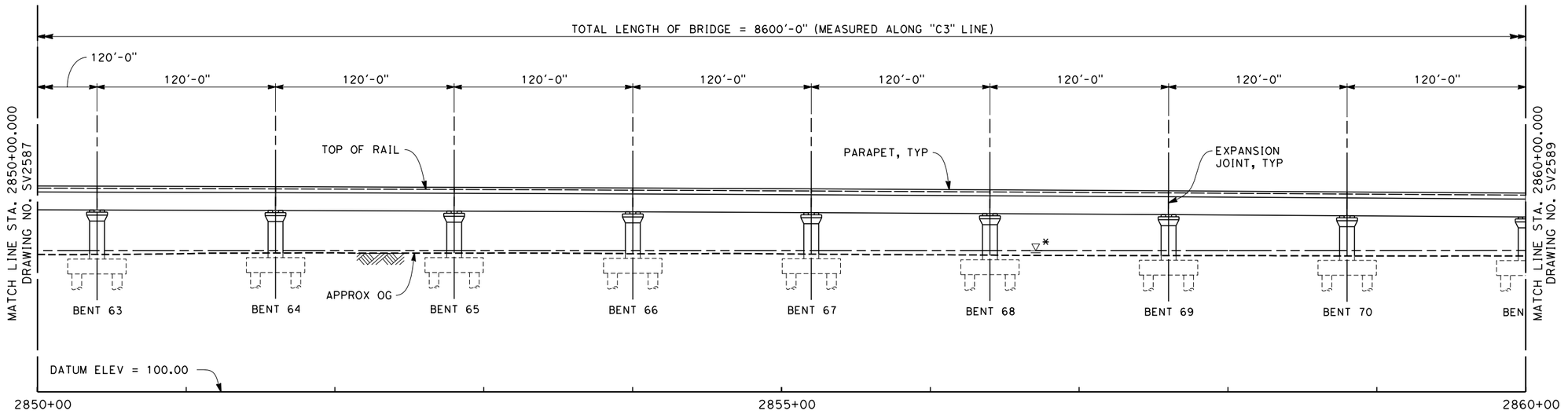
CONTRACT NO. HSR 06-0003
DRAWING NO. SV2587
SCALE AS SHOWN
SHEET NO. 8 OF 11

frank.palermo 12/28/2013 2:12:51 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\d0125237\FB-SV-2587-C3.dgn



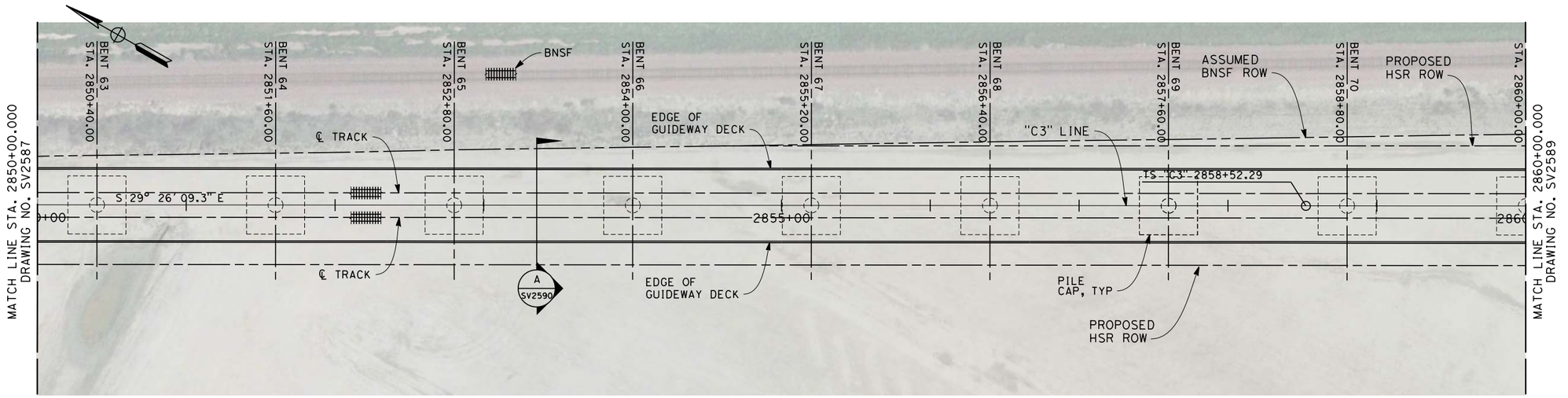
TOP OF RAIL "C3" LINE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

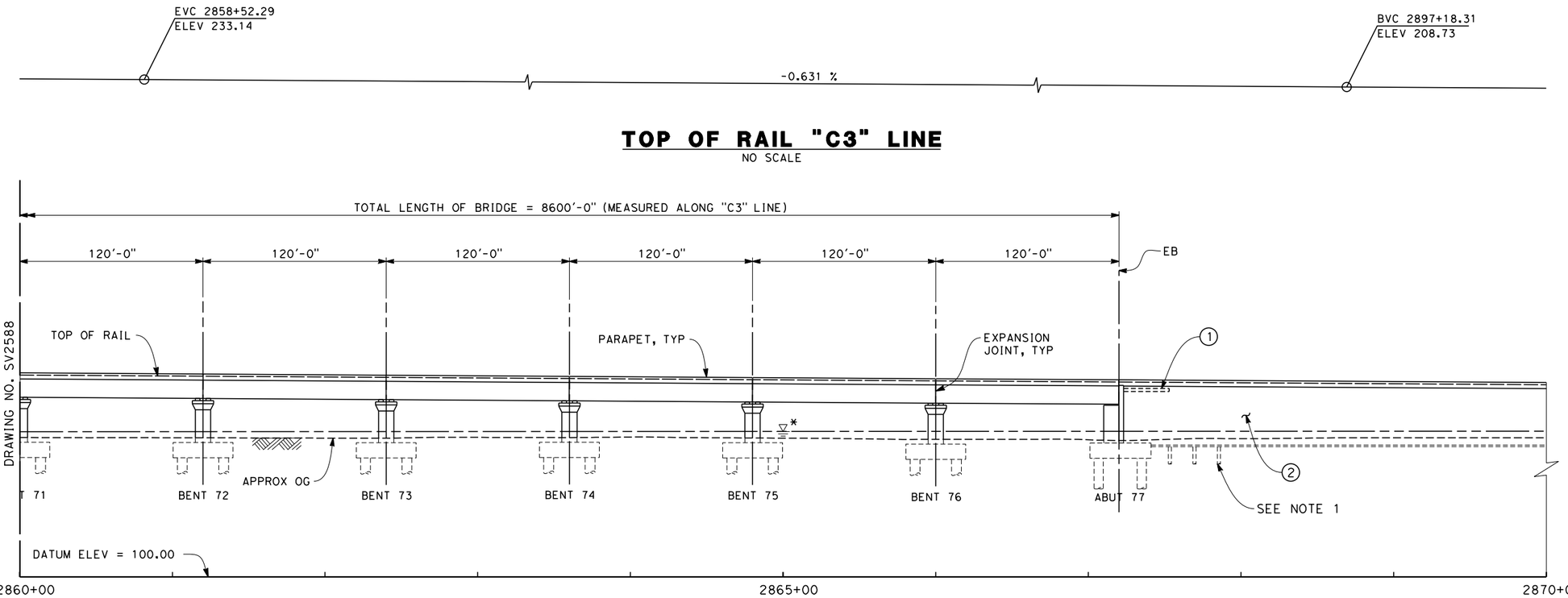
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
BOSWELL SPUR VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2588
SCALE AS SHOWN
SHEET NO. 9 OF 11

frank.palermo 12/28/2013 1:58:55 PM c:\pwworking\hmm\external\frank.palermo01-arup.com\d0125237\FB-SV-2588-C3.dgn



NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON
   SIMPLE SPANS - MSS OR FLPM
   CONTINUOUS SPANS - BCC - PRECAST IN-SITU
   STEEL TRUSS - INSITU, SLID OR LAUNCHED
   ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

① STRUCTURE APPROACH SLAB

② RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

⬡ 62

R = 125000.0'

Δ = 0° 32' 04.1"

T = 583.0'

L = 1166.0'

40 0 40 80

1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

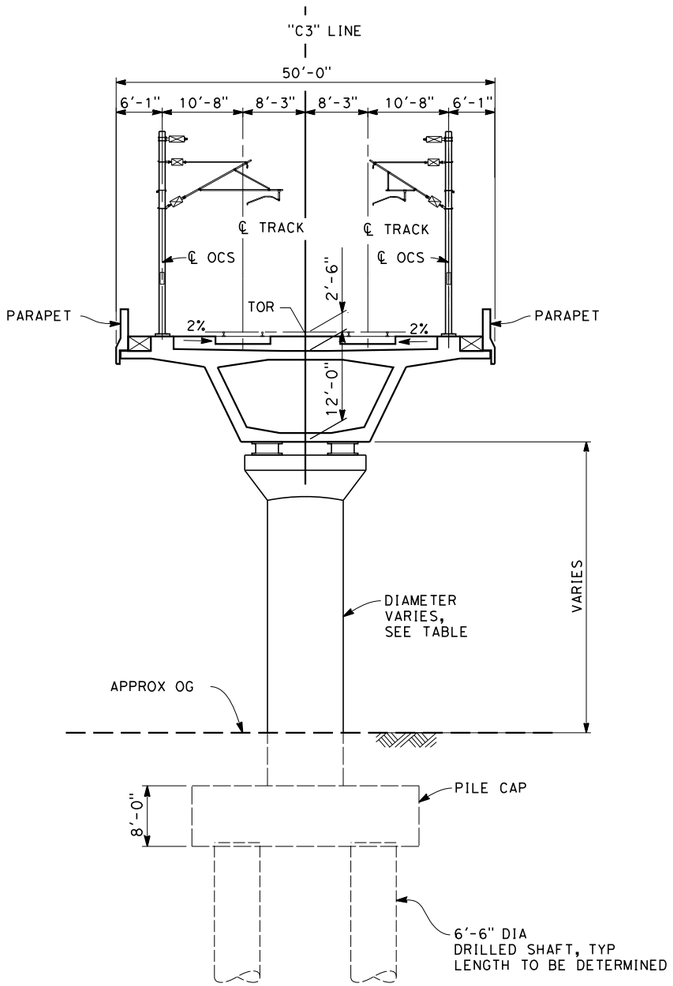
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
BOSWELL SPUR VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2589
SCALE AS SHOWN
SHEET NO. 10 OF 11

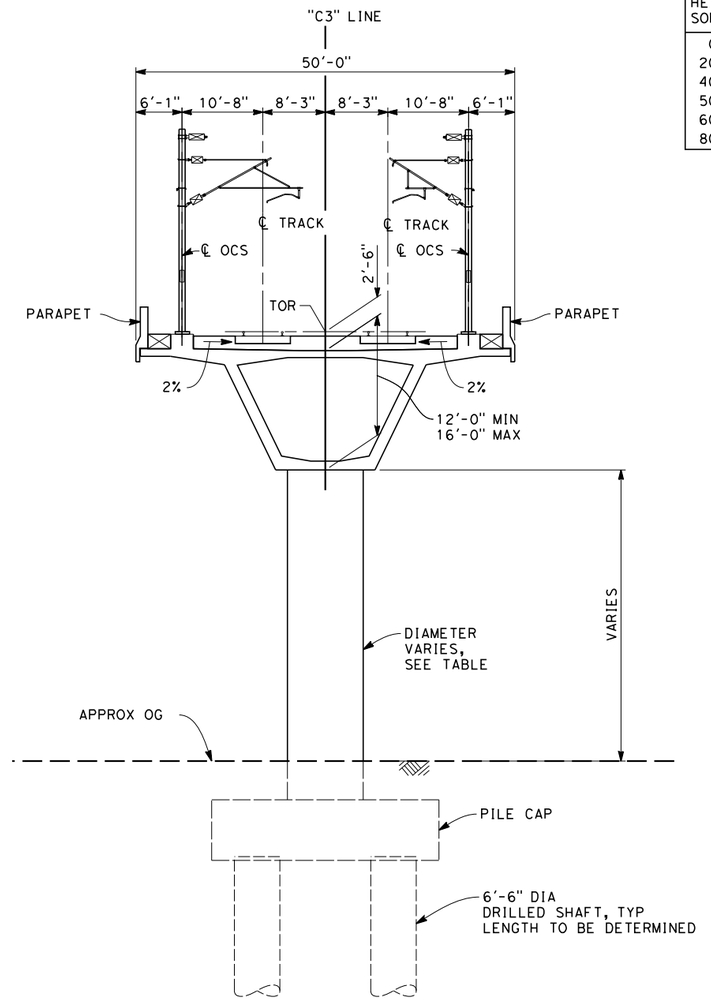
COLUMN DIAMETERS	
HEIGHT TO SOFFIT	DIAMETER
0-20	8 FT
20-40	10 FT
40-50	12 FT
50-60	15 FT
60-80	20 FT
80-100	25 FT



SECTION A

SCALE: 1" = 10'

STA 2781+20 THROUGH 2823+00
STA 2827+00 THROUGH 2841+00
STA 2844+80 THROUGH 2867+20



SECTION B

SCALE: 1" = 10'

STA 2823+00 THROUGH 2827+00
STA 2841+00 THROUGH 2844+80

10 0 10 20
1"-10'

andrew.armstrong\ 2/12/2013 11:42:48 AM c:\pwworking\hmm\external\andrew.armstrong-arup.com\d0125237\FB-SV-2590-C3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
BOSWELL SPUR VIADUCT
TYPICAL SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2590
SCALE AS SHOWN
SHEET NO. 11 OF 11

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

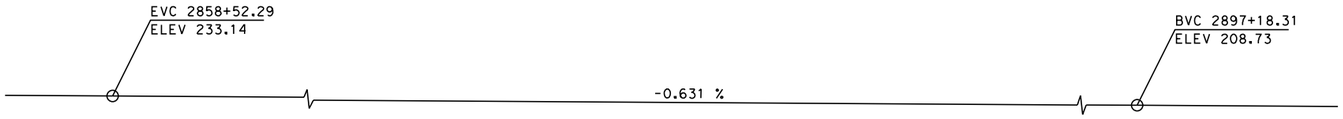
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

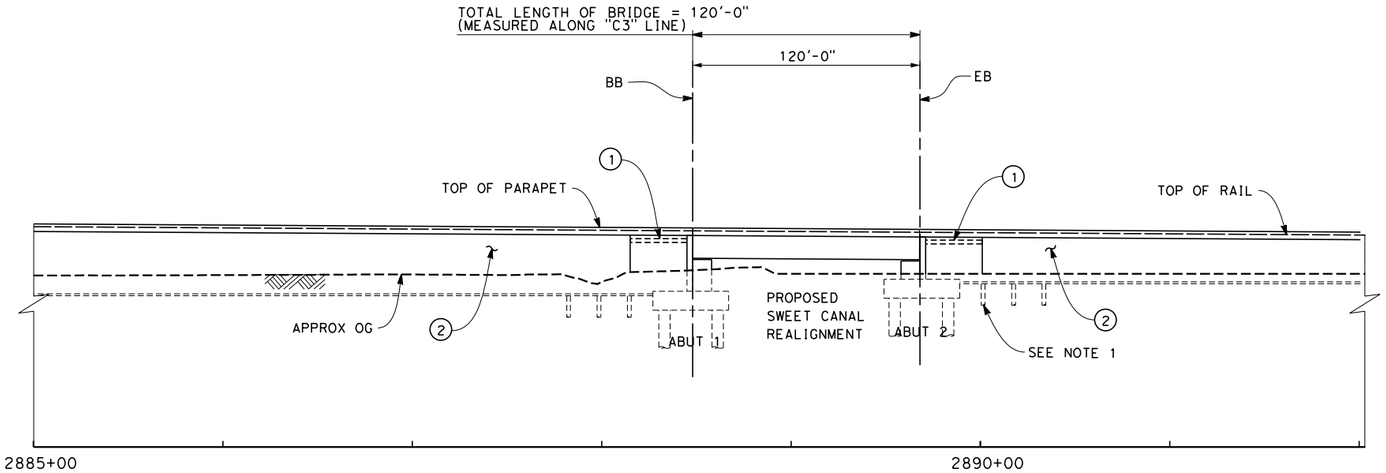
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
SWEET CANAL BRIDGE
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2595
SCALE AS SHOWN
SHEET NO. 1 OF 2



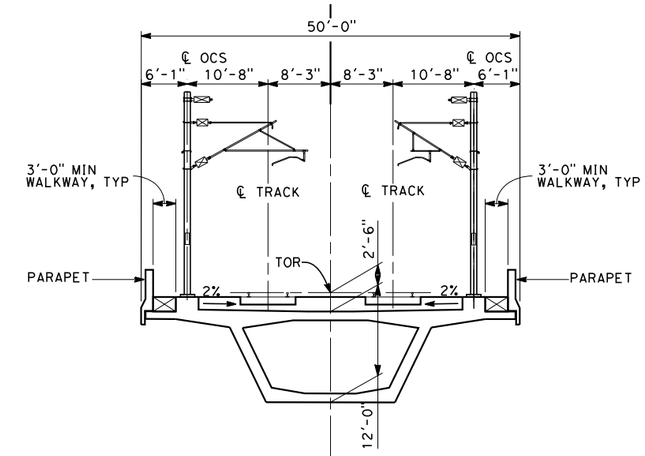
TOP OF RAIL "C3" LINE

NO SCALE



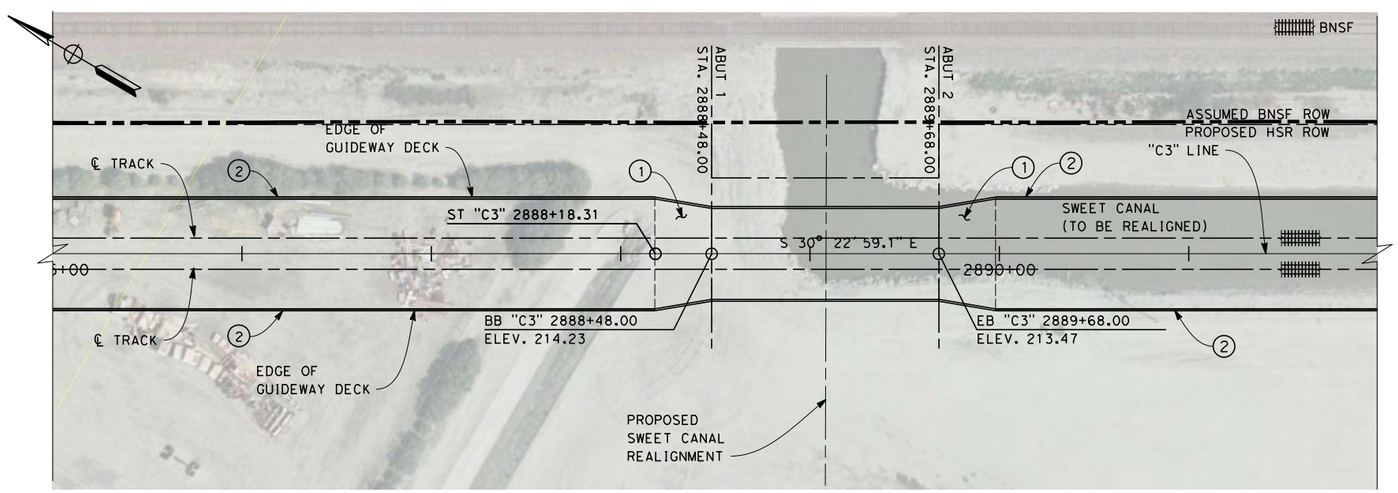
ELEVATION

SCALE 1" = 40'



TYPICAL SECTION

SCALE: 1"=10'



PLAN

SCALE 1" = 40'

NOTES:

1. PILE LENGTH TO BE DETERMINED/NOT ALL PILES SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, SEE ALIGNMENT DRAWINGS.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALLS

INDICATES RAILROAD AND HIGH-SPEED TRAIN TRACK

40 0 40 80
1"=40'

10 0 10 20
1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. FISHER
DRAWN BY F. PALERMO
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
SWEET CANAL BRIDGE
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2596
SCALE AS SHOWN
SHEET NO. 2 OF 2

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. SHEIKH
DRAWN BY J. REILLY
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

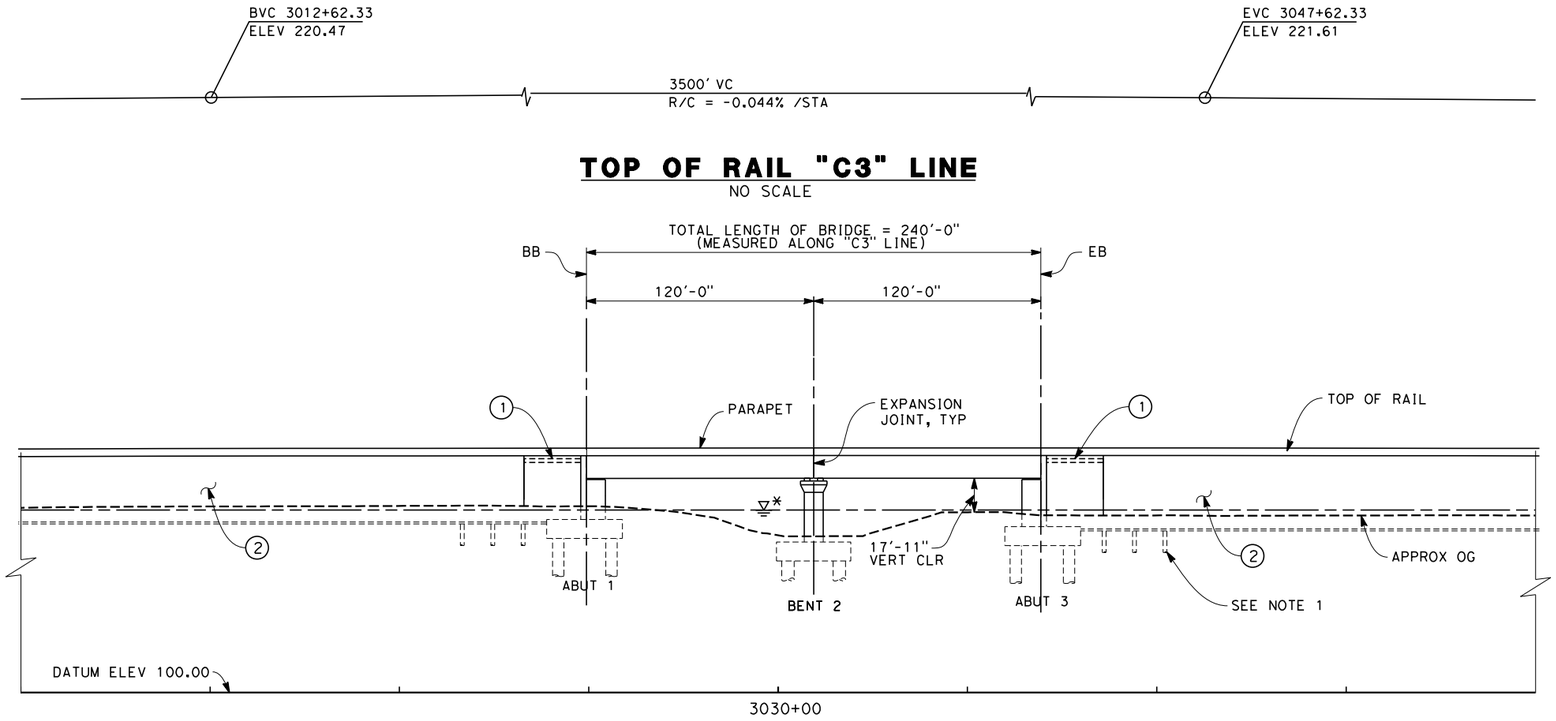
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
TULE RIVER BRIDGE
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2598
SCALE AS SHOWN
SHEET NO. 1 OF 2

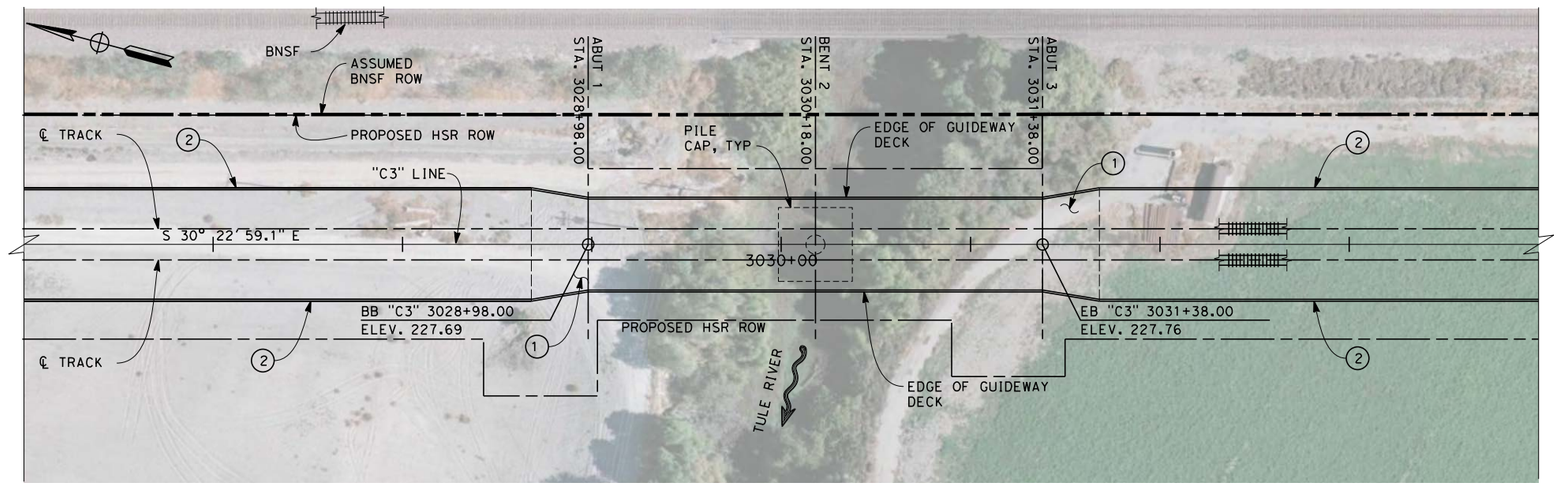


TOP OF RAIL "C3" LINE

NO SCALE

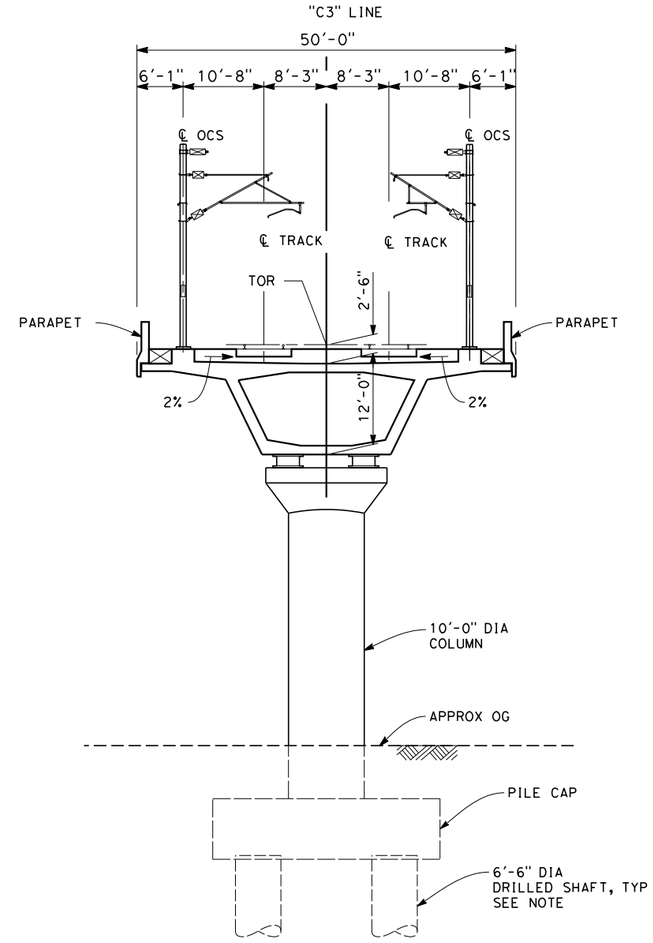
ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'



TYPICAL SECTION

SCALE: 1" = 10'

NOTES:

1. ALL PILES NOT SHOWN
2. PILE LENGTH TO BE DETERMINED

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT"

10 0 10 20 — 1"=10'

40 0 40 80 — 1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. SHEIKH
DRAWN BY J. REILLY
CHECKED BY A. ARMSTRONG
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
TULE RIVER BRIDGE
PLAN AND ELEVATION

CONTRACT NO. HSR 06-0003
DRAWING NO. SV2599
SCALE AS SHOWN
SHEET NO. 2 OF 2