

# CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

DRAFT

Fresno to Bakersfield Section  
Draft EIR-EIS

**Volume III:**

**Section B - Alignment Plans**

Part 2 of 2

August 2011



**CALIFORNIA**  
High-Speed Rail Authority








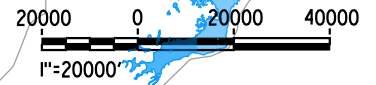
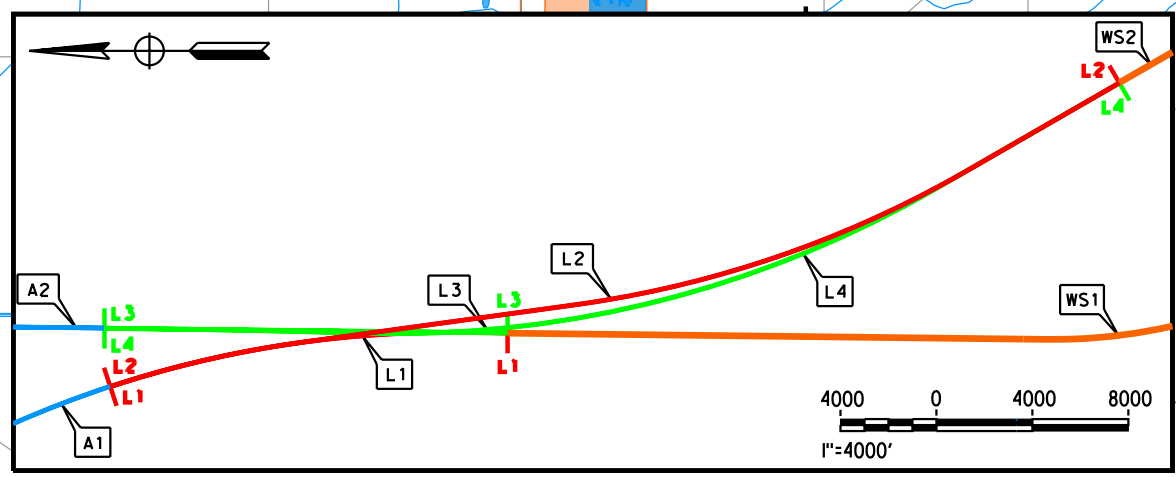
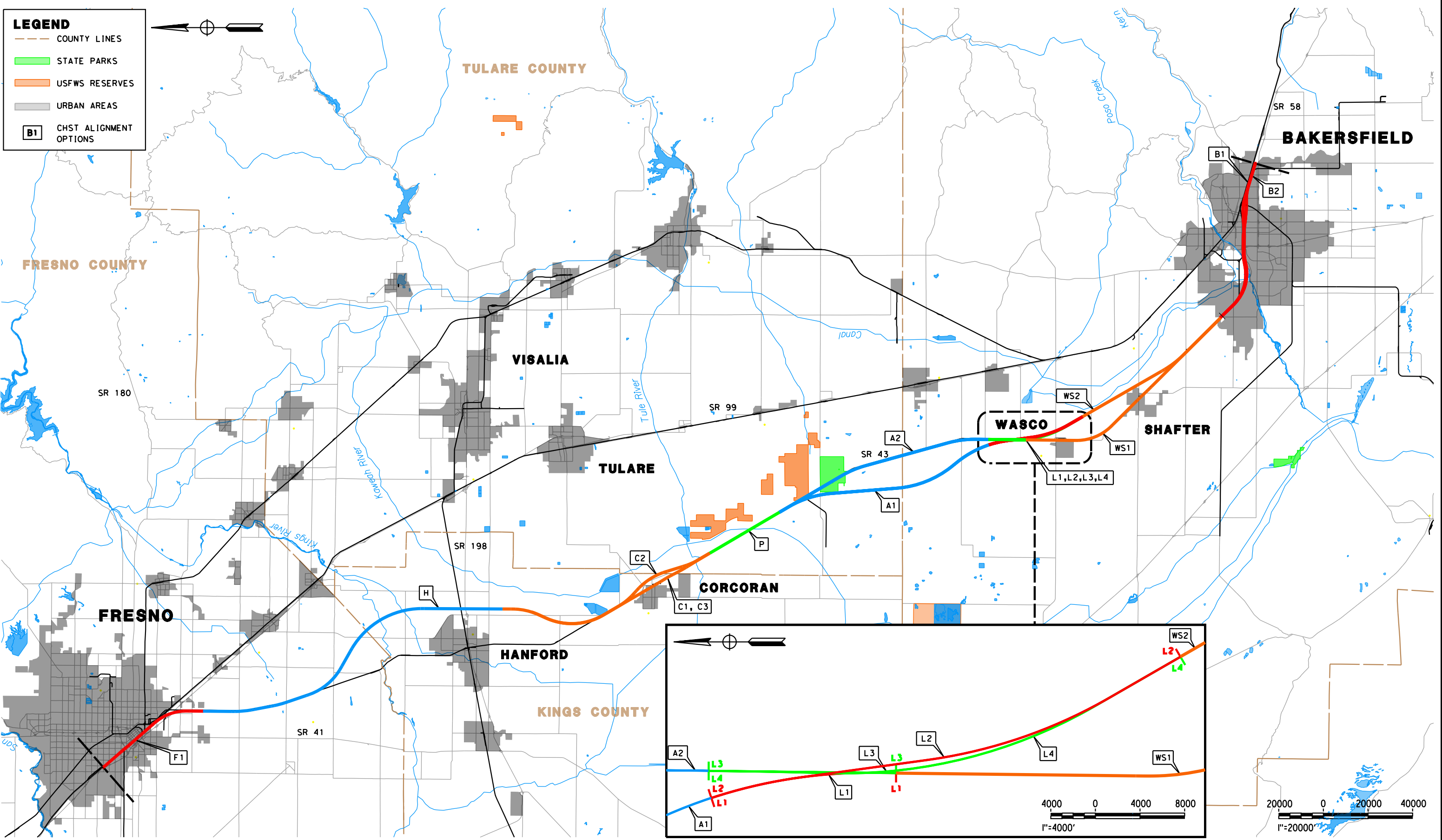
**U.S. Department of Transportation**  
Federal Railroad Administration



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**LEGEND**

-  COUNTY LINES
-  STATE PARKS
-  USFWS RESERVES
-  URBAN AREAS
-  CHST ALIGNMENT OPTIONS



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
K. SEYMOUR  
DRAWN BY  
P. TONKIN  
CHECKED BY  
D. HUNT  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

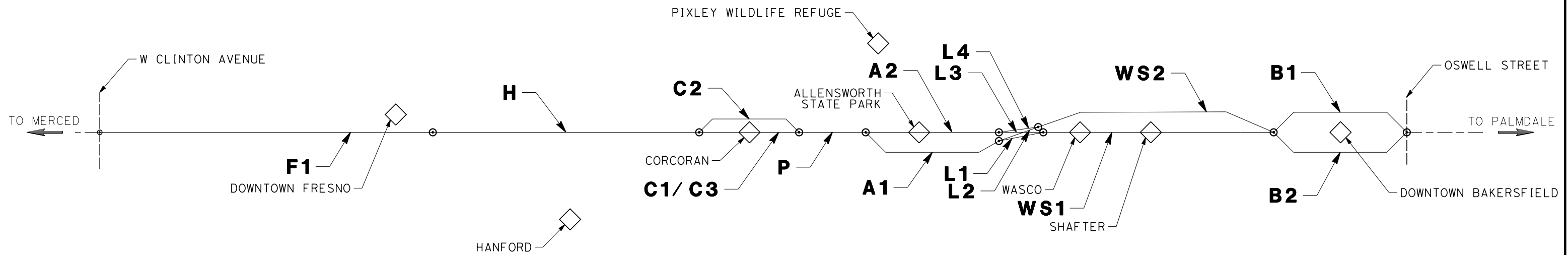
ALIGNMENT  
LOCATION MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0001  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 16



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SUBSECTION CODE	NAME	LENGTH (MI)
F1	FRESNO	10.12
H	HANFORD	28.69
C1	CORCORAN (ELEVATED)	19.34
C2	CORCORAN BYPASS	19.49
C3	CORCORAN (AT GRADE)	19.36
P	PIXLEY	6.88
A1	ALLENSWORTH BYPASS	19.07
A2	THROUGH ALLENSWORTH	19.04
L1	POSO CREEK	3.18
L2	POSO CREEK	8.41
L3	POSO CREEK	3.18
L4	POSO CREEK	8.44
WS1	THROUGH WASCO-SHAFTER	20.63
WS2	WASCO-SHAFTER BYPASS	14.49
B1	BAKERSFIELD URBAN (NORTH)	11.96
B2	BAKERSFIELD URBAN (SOUTH)	11.89



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. ALLEN  
DRAWN BY  
C. ALLEN  
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J. LABANOWSKI  
IN CHARGE  
G. HORTON  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALIGNMENT  
ALIGNMENT SUBSECTIONS DIAGRAM

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0002  
SCALE  
NO SCALE  
SHEET NO.  
3 OF 16

**GENERAL SHEETS**

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
	FRESNO TO BAKERSFIELD - ALIGNMENT - COVER SHEET	SHEET 1 OF 16
CB0001	ALIGNMENT - LOCATION MAP	SHEET 2 OF 16
CB0002	ALIGNMENT - ALIGNMENT SUBSECTIONS DIAGRAM	SHEET 3 OF 16
CB0003	ALIGNMENT - INDEX OF SHEETS - SHEET 1 OF 6	SHEET 4 OF 16
CB0004	ALIGNMENT - INDEX OF SHEETS - SHEET 2 OF 6	SHEET 5 OF 16
CB0005	ALIGNMENT - INDEX OF SHEETS - SHEET 3 OF 6	SHEET 6 OF 16
CB0006	ALIGNMENT - INDEX OF SHEETS - SHEET 4 OF 6	SHEET 7 OF 16
CB0007	ALIGNMENT - INDEX OF SHEETS - SHEET 5 OF 6	SHEET 8 OF 16
CB0008	ALIGNMENT - INDEX OF SHEETS - SHEET 6 OF 6	SHEET 9 OF 16
CB0009	GENERAL - ABBREVIATIONS AND LEGENDS - SHEET 1 OF 2	SHEET 10 OF 16
CB0010	GENERAL - ABBREVIATIONS AND LEGENDS - SHEET 2 OF 2	SHEET 11 OF 16
CB0011	ALIGNMENT - CURVE DATA SHEET - SHEET 1 OF 2	SHEET 12 OF 16
CB0012	ALIGNMENT - CURVE DATA SHEET - SHEET 2 OF 2	SHEET 13 OF 16
CB0013	TPSS - LOCATION MAP	SHEET 14 OF 16
CB0014	WILDLIFE CROSSINGS - LOCATION MAP	SHEET 15 OF 16
CB0015	TYPICAL OCS CONFIGURATION	SHEET 16 OF 16

**REFER TO ALIGNMENT PLANS - PART 1 OF 2**

**ALIGNMENT F1 - CONT'D**

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1670	FRESNO SUBSECTION - ALIGNMENT F1 - STA.548+00 TO 577+00 - PLAN AND PROFILE	SHEET 21 OF 40	NOT INCLUDED IN THIS PACKAGE  1
CB1671	FRESNO SUBSECTION - ALIGNMENT F1 - STA.577+00 TO 606+00 - PLAN AND PROFILE	SHEET 22 OF 40	
CB1672	FRESNO SUBSECTION - ALIGNMENT F1 - STA.606+00 TO 634+32 - PLAN AND PROFILE	SHEET 23 OF 40	
CB1674	FRESNO SUBSECTION - KERN STATION - ALIGNMENT F1 - STA.240+00 TO 268+00 - PLAN AND PROFILE	SHEET 24 OF 40	
CB1675	FRESNO SUBSECTION - KERN STATION - ALIGNMENT F1 - STA.268+00 TO 282+00 - PLAN AND PROFILE	SHEET 25 OF 40	
CB1676	FRESNO SUBSECTION - KERN STATION - ALIGNMENT F1 - STA.282+00 TO 296+00 - PLAN AND PROFILE	SHEET 26 OF 40	
CB1677	FRESNO SUBSECTION - KERN STATION - ALIGNMENT F1 - STA.296+00 TO 310+00 - PLAN AND PROFILE	SHEET 27 OF 40	
CB1678	FRESNO SUBSECTION - KERN STATION - ALIGNMENT F1 - STA.310+00 TO 324+00 - PLAN AND PROFILE	SHEET 28 OF 40	
CB1679	FRESNO SUBSECTION - KERN STATION - ALIGNMENT F1 - STA.324+00 TO 338+00 - PLAN AND PROFILE	SHEET 29 OF 40	
CB1680	FRESNO SUBSECTION - KERN STATION - ALIGNMENT F1 - STA.338+00 TO 352+00 - PLAN AND PROFILE	SHEET 30 OF 40	
CB3010	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 31 OF 40	
CB3011	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 32 OF 40	
CB3012	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 33 OF 40	
CB3013	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 34 OF 40	
CB3014	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 35 OF 40	
CB3015	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 36 OF 40	
CB3016	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 37 OF 40	
CB3017	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 38 OF 40	
CB3018	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 39 OF 40	
CB3019	FRESNO SUBSECTION - ALIGNMENT F1 - CROSS SECTIONS	SHEET 40 OF 40	

**ALIGNMENT F1**

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1650	FRESNO SUBSECTION - ALIGNMENT F1 - STA.100+00 TO 634+32 - KEY MAP	SHEET 1 OF 40	NOT INCLUDED IN THIS PACKAGE  1
CB1651	FRESNO SUBSECTION - ALIGNMENT F1 - STA.100+00 TO 128+00 - PLAN AND PROFILE	SHEET 2 OF 40	
CB1652	FRESNO SUBSECTION - ALIGNMENT F1 - STA.128+00 TO 156+00 - PLAN AND PROFILE	SHEET 3 OF 40	
CB1653	FRESNO SUBSECTION - ALIGNMENT F1 - STA.156+00 TO 184+00 - PLAN AND PROFILE	SHEET 4 OF 40	
CB1654	FRESNO SUBSECTION - ALIGNMENT F1 - STA.184+00 TO 212+00 - PLAN AND PROFILE	SHEET 5 OF 40	
CB1655	FRESNO SUBSECTION - ALIGNMENT F1 - STA.212+00 TO 240+00 - PLAN AND PROFILE	SHEET 6 OF 40	
CB1656	FRESNO SUBSECTION - ALIGNMENT F1 - STA.240+00 TO 268+00 - PLAN AND PROFILE	SHEET 7 OF 40	
CB1657	FRESNO SUBSECTION - MARIPOSA STATION - ALIGNMENT F1 - STA.268+00 TO 282+00 - PLAN AND PROFILE	SHEET 8 OF 40	
CB1658	FRESNO SUBSECTION - MARIPOSA STATION - ALIGNMENT F1 - STA.282+00 TO 296+00 - PLAN AND PROFILE	SHEET 9 OF 40	
CB1659	FRESNO SUBSECTION - MARIPOSA STATION - ALIGNMENT F1 - STA.296+00 TO 310+00 - PLAN AND PROFILE	SHEET 10 OF 40	
CB1660	FRESNO SUBSECTION - MARIPOSA STATION - ALIGNMENT F1 - STA.310+00 TO 324+00 - PLAN AND PROFILE	SHEET 11 OF 40	
CB1661	FRESNO SUBSECTION - MARIPOSA STATION - ALIGNMENT F1 - STA.324+00 TO 338+00 - PLAN AND PROFILE	SHEET 12 OF 40	
CB1662	FRESNO SUBSECTION - MARIPOSA STATION - ALIGNMENT F1 - STA.338+00 TO 352+00 - PLAN AND PROFILE	SHEET 13 OF 40	
CB1663	FRESNO SUBSECTION - ALIGNMENT F1 - STA.352+00 TO 380+00 - PLAN AND PROFILE	SHEET 14 OF 40	
CB1664	FRESNO SUBSECTION - ALIGNMENT F1 - STA.380+00 TO 408+00 - PLAN AND PROFILE	SHEET 15 OF 40	
CB1665	FRESNO SUBSECTION - ALIGNMENT F1 - STA.408+00 TO 436+00 - PLAN AND PROFILE	SHEET 16 OF 40	
CB1666	FRESNO SUBSECTION - ALIGNMENT F1 - STA.436+00 TO 464+00 - PLAN AND PROFILE	SHEET 17 OF 40	
CB1667	FRESNO SUBSECTION - ALIGNMENT F1 - STA.464+00 TO 492+00 - PLAN AND PROFILE	SHEET 18 OF 40	
CB1668	FRESNO SUBSECTION - ALIGNMENT F1 - STA.492+00 TO 520+00 - PLAN AND PROFILE	SHEET 19 OF 40	
CB1669	FRESNO SUBSECTION - ALIGNMENT F1 - STA.520+00 TO 548+00 - PLAN AND PROFILE	SHEET 20 OF 40	

**ALIGNMENT H**

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1800	HANFORD SUBSECTION - ALIGNMENT H - STA.629+59 TO 2144+63 - KEY MAP	SHEET 1 OF 39	1
CB1801	HANFORD SUBSECTION - ALIGNMENT H - STA.629+59 TO 687+00 - PLAN AND PROFILE	SHEET 2 OF 39	
CB1802	HANFORD SUBSECTION - ALIGNMENT H - STA.687+00 TO 744+00 - PLAN AND PROFILE	SHEET 3 OF 39	
CB1803	HANFORD SUBSECTION - ALIGNMENT H - STA.744+00 TO 800+00 - PLAN AND PROFILE	SHEET 4 OF 39	
CB1804	HANFORD SUBSECTION - ALIGNMENT H - STA.800+00 TO 856+00 - PLAN AND PROFILE	SHEET 5 OF 39	
CB1805	HANFORD SUBSECTION - ALIGNMENT H - STA.856+00 TO 912+00 - PLAN AND PROFILE	SHEET 6 OF 39	
CB1806	HANFORD SUBSECTION - ALIGNMENT H - STA.912+00 TO 968+00 - PLAN AND PROFILE	SHEET 7 OF 39	
CB1807	HANFORD SUBSECTION - ALIGNMENT H - STA.968+00 TO 1024+00 - PLAN AND PROFILE	SHEET 8 OF 39	
CB1808	HANFORD SUBSECTION - ALIGNMENT H - STA.1024+00 TO 1080+00 - PLAN AND PROFILE	SHEET 9 OF 39	
CB1809	HANFORD SUBSECTION - ALIGNMENT H - STA.1080+00 TO 1136+00 - PLAN AND PROFILE	SHEET 10 OF 39	
CB1810	HANFORD SUBSECTION - ALIGNMENT H - STA.1136+00 TO 1192+00 - PLAN AND PROFILE	SHEET 11 OF 39	
CB1811	HANFORD SUBSECTION - ALIGNMENT H - STA.1192+00 TO 1248+00 - PLAN AND PROFILE	SHEET 12 OF 39	
CB1812	HANFORD SUBSECTION - ALIGNMENT H - STA.1248+00 TO 1304+00 - PLAN AND PROFILE	SHEET 13 OF 39	
CB1813	HANFORD SUBSECTION - ALIGNMENT H - STA.1304+00 TO 1360+00 - PLAN AND PROFILE	SHEET 14 OF 39	
CB1814	HANFORD SUBSECTION - ALIGNMENT H - STA.1360+00 TO 1416+00 - PLAN AND PROFILE	SHEET 15 OF 39	
CB1815	HANFORD SUBSECTION - ALIGNMENT H - STA.1416+00 TO 1472+00 - PLAN AND PROFILE	SHEET 16 OF 39	
CB1816	HANFORD SUBSECTION - ALIGNMENT H - STA.1472+00 TO 1528+00 - PLAN AND PROFILE	SHEET 17 OF 39	
CB1817	HANFORD SUBSECTION - ALIGNMENT H - STA.1528+00 TO 1584+00 - PLAN AND PROFILE	SHEET 18 OF 39	
CB1818	HANFORD SUBSECTION - ALIGNMENT H - STA.1584+00 TO 1640+00 - PLAN AND PROFILE	SHEET 19 OF 39	
CB1819	HANFORD SUBSECTION - ALIGNMENT H - STA.1640+00 TO 1696+00 - PLAN AND PROFILE	SHEET 20 OF 39	

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
K. SEYMOUR  
DRAWN BY  
P. TONKIN  
CHECKED BY  
D. HUNT  
IN CHARGE  
A. LUFT  
DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALIGNMENT  
INDEX OF SHEETS  
SHEET 1 OF 6

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0003  
SCALE  
NO SCALE  
SHEET NO.  
4 OF 16



**ALIGNMENT H - CONT'D**

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1820	HANFORD SUBSECTION - ALIGNMENT H - STA.1696+00 TO 1752+00 - PLAN AND PROFILE	SHEET 21 OF 39	1
CB1821	HANFORD SUBSECTION - ALIGNMENT H - STA.1752+00 TO 1808+00 - PLAN AND PROFILE	SHEET 22 OF 39	
CB1822	HANFORD SUBSECTION - ALIGNMENT H - STA.1808+00 TO 1864+00 - PLAN AND PROFILE	SHEET 23 OF 39	
CB1823	HANFORD SUBSECTION - ALIGNMENT H - STA.1864+00 TO 1914+00 - PLAN AND PROFILE	SHEET 24 OF 39	
CB1824	HANFORD SUBSECTION - ALIGNMENT H - STA.1914+00 TO 1928+00 - PLAN AND PROFILE	SHEET 25 OF 39	
CB1825	HANFORD SUBSECTION - ALIGNMENT H - STA.1928+00 TO 1942+00 - PLAN AND PROFILE	SHEET 26 OF 39	
CB1826	HANFORD SUBSECTION - ALIGNMENT H - STA.1942+00 TO 1956+00 - PLAN AND PROFILE	SHEET 27 OF 39	
CB1827	HANFORD SUBSECTION - ALIGNMENT H - STA.1956+00 TO 1970+00 - PLAN AND PROFILE	SHEET 28 OF 39	
CB1828	HANFORD SUBSECTION - ALIGNMENT H - STA.1970+00 TO 1984+00 - PLAN AND PROFILE	SHEET 29 OF 39	
CB1829	HANFORD SUBSECTION - ALIGNMENT H - STA.1984+00 TO 2032+00 - PLAN AND PROFILE	SHEET 30 OF 39	
CB1830	HANFORD SUBSECTION - ALIGNMENT H - STA.2032+00 TO 2088+00 - PLAN AND PROFILE	SHEET 31 OF 39	
CB1831	HANFORD SUBSECTION - ALIGNMENT H - STA.2088+00 TO 2144+63 - PLAN AND PROFILE	SHEET 32 OF 39	
CB3151	HANFORD SUBSECTION - ALIGNMENT H - CROSS SECTIONS	SHEET 33 OF 39	
CB3152	HANFORD SUBSECTION - ALIGNMENT H - CROSS SECTIONS	SHEET 34 OF 39	
CB3153	HANFORD SUBSECTION - ALIGNMENT H - CROSS SECTIONS	SHEET 35 OF 39	
CB3154	HANFORD SUBSECTION - ALIGNMENT H - CROSS SECTIONS	SHEET 36 OF 39	
CB3155	HANFORD SUBSECTION - ALIGNMENT H - CROSS SECTIONS	SHEET 37 OF 39	
CB3157	HANFORD SUBSECTION - ALIGNMENT H - CROSS SECTIONS	SHEET 38 OF 39	
CB3158	HANFORD SUBSECTION - ALIGNMENT H - CROSS SECTIONS	SHEET 39 OF 39	

**ALIGNMENT C1**

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1870	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2074+96.42 TO 3096+00 - KEY MAP	SHEET 1 OF 33	1
CB1871	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2074+96.42 TO 2130+00 - PLAN AND PROFILE	SHEET 2 OF 33	
CB1872	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2130+00 TO 2186+00 - PLAN AND PROFILE	SHEET 3 OF 33	
CB1873	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2186+00 TO 2242+00 - PLAN AND PROFILE	SHEET 4 OF 33	
CB1874	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2242+00 TO 2298+00 - PLAN AND PROFILE	SHEET 5 OF 33	
CB1875	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2298+00 TO 2354+00 - PLAN AND PROFILE	SHEET 6 OF 33	
CB1876	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2354+00 TO 2410+00 - PLAN AND PROFILE	SHEET 7 OF 33	
CB1877	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2410+00 TO 2466+00 - PLAN AND PROFILE	SHEET 8 OF 33	
CB1878	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2466+00 TO 2522+00 - PLAN AND PROFILE	SHEET 9 OF 33	
CB1879	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2522+00 TO 2578+00 - PLAN AND PROFILE	SHEET 10 OF 33	
CB1880	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2578+00 TO 2634+00 - PLAN AND PROFILE	SHEET 11 OF 33	
CB1881	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2634+00 TO 2676+00 - PLAN AND PROFILE	SHEET 12 OF 33	
CB1882	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2676+00 TO 2704+00 - PLAN AND PROFILE	SHEET 13 OF 33	
CB1883	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2704+00 TO 2732+00 - PLAN AND PROFILE	SHEET 14 OF 33	
CB1884	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2732+00 TO 2760+00 - PLAN AND PROFILE	SHEET 15 OF 33	
CB1885	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2760+00 TO 2788+00 - PLAN AND PROFILE	SHEET 16 OF 33	
CB1886	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2788+00 TO 2816+00 - PLAN AND PROFILE	SHEET 17 OF 33	
CB1887	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2816+00 TO 2844+00 - PLAN AND PROFILE	SHEET 18 OF 33	
CB1888	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2844+00 TO 2872+00 - PLAN AND PROFILE	SHEET 19 OF 33	
CB1889	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2872+00 TO 2900+00 - PLAN AND PROFILE	SHEET 20 OF 33	
CB1890	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2900+00 TO 2928+00 - PLAN AND PROFILE	SHEET 21 OF 33	

**ALIGNMENT C1 - CONT'D**

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1891	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2928+00 TO 2956+00 - PLAN AND PROFILE	SHEET 22 OF 33	1
CB1892	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2956+00 TO 2984+00 - PLAN AND PROFILE	SHEET 23 OF 33	
CB1893	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.2984+00 TO 3012+00 - PLAN AND PROFILE	SHEET 24 OF 33	
CB1894	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.3012+00 TO 3040+00 - PLAN AND PROFILE	SHEET 25 OF 33	
CB1895	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.3040+00 TO 3068+00 - PLAN AND PROFILE	SHEET 26 OF 33	
CB1896	CORCORAN SUBSECTION - ALIGNMENT C1 - STA.3068+00 TO 3096+00 - PLAN AND PROFILE	SHEET 27 OF 33	
CB3210	CORCORAN SUBSECTION - ALIGNMENT C1 - CROSS SECTIONS	SHEET 28 OF 33	
CB3211	CORCORAN SUBSECTION - ALIGNMENT C1 - CROSS SECTIONS	SHEET 29 OF 33	
CB3212	CORCORAN SUBSECTION - ALIGNMENT C1 - CROSS SECTIONS	SHEET 30 OF 33	
CB3213	CORCORAN SUBSECTION - ALIGNMENT C1 - CROSS SECTIONS	SHEET 31 OF 33	
CB3214	CORCORAN SUBSECTION - ALIGNMENT C1 - CROSS SECTIONS	SHEET 32 OF 33	
CB3215	CORCORAN SUBSECTION - ALIGNMENT C1 - CROSS SECTIONS	SHEET 33 OF 33	

**ALIGNMENT C2**

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1850	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2067+00 TO 3096+00 - KEY MAP	SHEET 1 OF 27	1
CB1851	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2067+00 TO 2123+00 - PLAN AND PROFILE	SHEET 2 OF 27	
CB1852	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2123+00 TO 2179+00 - PLAN AND PROFILE	SHEET 3 OF 27	
CB1853	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2179+00 TO 2235+00 - PLAN AND PROFILE	SHEET 4 OF 27	
CB1854	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2235+00 TO 2291+00 - PLAN AND PROFILE	SHEET 5 OF 27	
CB1855	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2291+00 TO 2347+00 - PLAN AND PROFILE	SHEET 6 OF 27	
CB1856	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2347+00 TO 2403+00 - PLAN AND PROFILE	SHEET 7 OF 27	
CB1857	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2403+00 TO 2459+00 - PLAN AND PROFILE	SHEET 8 OF 27	
CB1858	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2459+00 TO 2515+00 - PLAN AND PROFILE	SHEET 9 OF 27	
CB1859	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2515+00 TO 2571+00 - PLAN AND PROFILE	SHEET 10 OF 27	
CB1860	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2571+00 TO 2627+00 - PLAN AND PROFILE	SHEET 11 OF 27	
CB1861	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2627+00 TO 2683+00 - PLAN AND PROFILE	SHEET 12 OF 27	
CB1862	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2683+00 TO 2739+00 - PLAN AND PROFILE	SHEET 13 OF 27	
CB1863	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2739+00 TO 2795+00 - PLAN AND PROFILE	SHEET 14 OF 27	
CB1864	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2795+00 TO 2851+00 - PLAN AND PROFILE	SHEET 15 OF 27	
CB1865	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2851+00 TO 2907+00 - PLAN AND PROFILE	SHEET 16 OF 27	
CB1866	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2907+00 TO 2963+00 - PLAN AND PROFILE	SHEET 17 OF 27	
CB1867	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.2963+00 TO 3019+00 - PLAN AND PROFILE	SHEET 18 OF 27	
CB1868	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.3019+00 TO 3075+00 - PLAN AND PROFILE	SHEET 19 OF 27	
CB1869	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - STA.3075+00 TO 3096+00 - PLAN AND PROFILE	SHEET 20 OF 27	
CB3255	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - CROSS SECTIONS	SHEET 21 OF 27	
CB3256	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - CROSS SECTIONS	SHEET 22 OF 27	
CB3257	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - CROSS SECTIONS	SHEET 23 OF 27	
CB3258	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - CROSS SECTIONS	SHEET 24 OF 27	
CB3259	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - CROSS SECTIONS	SHEET 25 OF 27	
CB3260	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - CROSS SECTIONS	SHEET 26 OF 27	
CB3261	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - CROSS SECTIONS	SHEET 27 OF 27	

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
K. SEYMOUR  
DRAWN BY  
P. TONKIN  
CHECKED BY  
D. HUNT  
IN CHARGE  
A. LUFT  
DATE  
06/30/11

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALIGNMENT  
INDEX OF SHEETS  
SHEET 2 OF 6

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0004  
SCALE  
NO SCALE  
SHEET NO.  
5 OF 16

### ALIGNMENT C3

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1900	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2073+97 TO 3096+00 - KEY MAP	SHEET 1 OF 30	1
CB1901	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2073+97 TO 2130+00 - PLAN AND PROFILE	SHEET 2 OF 30	
CB1902	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2130+00 TO 2186+00 - PLAN AND PROFILE	SHEET 3 OF 30	
CB1903	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2186+00 TO 2242+00 - PLAN AND PROFILE	SHEET 4 OF 30	
CB1904	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2242+00 TO 2298+00 - PLAN AND PROFILE	SHEET 5 OF 30	
CB1905	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2298+00 TO 2354+00 - PLAN AND PROFILE	SHEET 6 OF 30	
CB1906	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2354+00 TO 2410+00 - PLAN AND PROFILE	SHEET 7 OF 30	
CB1907	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2410+00 TO 2466+00 - PLAN AND PROFILE	SHEET 8 OF 30	
CB1908	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2466+00 TO 2522+00 - PLAN AND PROFILE	SHEET 9 OF 30	
CB1909	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2522+00 TO 2578+00 - PLAN AND PROFILE	SHEET 10 OF 30	
CB1910	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2578+00 TO 2634+00 - PLAN AND PROFILE	SHEET 11 OF 30	
CB1911	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2634+00 TO 2690+00 - PLAN AND PROFILE	SHEET 12 OF 30	
CB1912	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2690+00 TO 2718+00 - PLAN AND PROFILE	SHEET 13 OF 30	
CB1913	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2718+00 TO 2746+00 - PLAN AND PROFILE	SHEET 14 OF 30	
CB1914	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2746+00 TO 2774+00 - PLAN AND PROFILE	SHEET 15 OF 30	
CB1915	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2774+00 TO 2802+00 - PLAN AND PROFILE	SHEET 16 OF 30	
CB1916	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2802+00 TO 2830+00 - PLAN AND PROFILE	SHEET 17 OF 30	
CB1917	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2830+00 TO 2858+00 - PLAN AND PROFILE	SHEET 18 OF 30	
CB1918	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2858+00 TO 2886+00 - PLAN AND PROFILE	SHEET 19 OF 30	
CB1919	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2886+00 TO 2914+00 - PLAN AND PROFILE	SHEET 20 OF 30	
CB1920	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2914+00 TO 2942+00 - PLAN AND PROFILE	SHEET 21 OF 30	
CB1921	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2942+00 TO 2998+00 - PLAN AND PROFILE	SHEET 22 OF 30	
CB1922	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.2998+00 TO 3054+00 - PLAN AND PROFILE	SHEET 23 OF 30	
CB1923	CORCORAN SUBSECTION - ALIGNMENT C3 - STA.3054+00 TO 3096+00 - PLAN AND PROFILE	SHEET 24 OF 30	
CB3275	CORCORAN SUBSECTION - ALIGNMENT C3 - CROSS SECTIONS	SHEET 25 OF 30	
CB3276	CORCORAN SUBSECTION - ALIGNMENT C3 - CROSS SECTIONS	SHEET 26 OF 30	
CB3277	CORCORAN SUBSECTION - ALIGNMENT C3 - CROSS SECTIONS	SHEET 27 OF 30	
CB3278	CORCORAN SUBSECTION - ALIGNMENT C3 - CROSS SECTIONS	SHEET 28 OF 30	
CB3279	CORCORAN SUBSECTION - ALIGNMENT C3 - CROSS SECTIONS	SHEET 29 OF 30	
CB3280	CORCORAN SUBSECTION - ALIGNMENT C3 - CROSS SECTIONS	SHEET 30 OF 30	

### ALIGNMENT P

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1300	PIXLEY SUBSECTION - ALIGNMENT P - STA.3096+00 TO 3459+24 - KEY MAP	SHEET 1 OF 9	1
CB1301	PIXLEY SUBSECTION - ALIGNMENT P - STA.3096+00 TO 3152+00 - PLAN AND PROFILE	SHEET 2 OF 9	
CB1302	PIXLEY SUBSECTION - ALIGNMENT P - STA.3152+00 TO 3208+00 - PLAN AND PROFILE	SHEET 3 OF 9	
CB1303	PIXLEY SUBSECTION - ALIGNMENT P - STA.3208+00 TO 3264+00 - PLAN AND PROFILE	SHEET 4 OF 9	
CB1304	PIXLEY SUBSECTION - ALIGNMENT P - STA.3264+00 TO 3320+00 - PLAN AND PROFILE	SHEET 5 OF 9	
CB1305	PIXLEY SUBSECTION - ALIGNMENT P - STA.3320+00 TO 3376+00 - PLAN AND PROFILE	SHEET 6 OF 9	
CB1306	PIXLEY SUBSECTION - ALIGNMENT P - STA.3376+00 TO 3432+00 - PLAN AND PROFILE	SHEET 7 OF 9	
CB1307	PIXLEY SUBSECTION - ALIGNMENT P - STA.3432+00 TO 3459+24 - PLAN AND PROFILE	SHEET 8 OF 9	
CB3301	PIXLEY SUBSECTION - ALIGNMENT P - CROSS SECTION	SHEET 9 OF 9	

### REFER TO ALIGNMENT PLANS - PART 2 OF 2

### ALIGNMENT A1

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1400	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.3919+50 TO 4926+16 - KEY MAP	SHEET 1 OF 21	2
CB1401	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.3919+50 TO 3976+00 - PLAN AND PROFILE	SHEET 2 OF 21	
CB1402	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.3976+00 TO 4032+00 - PLAN AND PROFILE	SHEET 3 OF 21	
CB1750	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4032+00 TO 4088+00 - PLAN AND PROFILE	SHEET 4 OF 21	
CB1751	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4088+00 TO 4144+00 - PLAN AND PROFILE	SHEET 5 OF 21	
CB1752	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4144+00 TO 4200+00 - PLAN AND PROFILE	SHEET 6 OF 21	
CB1753	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4200+00 TO 4256+00 - PLAN AND PROFILE	SHEET 7 OF 21	
CB1754	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4256+00 TO 4312+00 - PLAN AND PROFILE	SHEET 8 OF 21	
CB1755	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4312+00 TO 4368+00 - PLAN AND PROFILE	SHEET 9 OF 21	
CB1756	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4368+00 TO 4424+00 - PLAN AND PROFILE	SHEET 10 OF 21	
CB1757	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4424+00 TO 4480+00 - PLAN AND PROFILE	SHEET 11 OF 21	
CB1758	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4480+00 TO 4536+00 - PLAN AND PROFILE	SHEET 12 OF 21	
CB1759	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4536+00 TO 4592+00 - PLAN AND PROFILE	SHEET 13 OF 21	
CB1760	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4592+00 TO 4648+00 - PLAN AND PROFILE	SHEET 14 OF 21	
CB1761	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4648+00 TO 4704+00 - PLAN AND PROFILE	SHEET 15 OF 21	
CB1762	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4704+00 TO 4760+00 - PLAN AND PROFILE	SHEET 16 OF 21	
CB1763	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4760+00 TO 4816+00 - PLAN AND PROFILE	SHEET 17 OF 21	
CB1764	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4816+00 TO 4872+00 - PLAN AND PROFILE	SHEET 18 OF 21	
CB1765	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA.4872+00 TO 4926+16 - PLAN AND PROFILE	SHEET 19 OF 21	
CB3401	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - CROSS SECTIONS	SHEET 20 OF 21	
CB3402	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - CROSS SECTIONS	SHEET 21 OF 21	

### ALIGNMENT A2

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1420	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.3919+50 TO 4924+61 - KEY MAP	SHEET 1 OF 23	2
CB1421	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.3919+50 TO 3975+50 - PLAN AND PROFILE	SHEET 2 OF 23	
CB1422	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.3975+50 TO 4031+50 - PLAN AND PROFILE	SHEET 3 OF 23	
CB1423	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4031+50 TO 4087+50 - PLAN AND PROFILE	SHEET 4 OF 23	
CB1424	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4087+50 TO 4143+50 - PLAN AND PROFILE	SHEET 5 OF 23	
CB1425	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4143+50 TO 4199+50 - PLAN AND PROFILE	SHEET 6 OF 23	
CB1426	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4199+50 TO 4227+50 - PLAN AND PROFILE	SHEET 7 OF 23	
CB1427	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4227+50 TO 4255+50 - PLAN AND PROFILE	SHEET 8 OF 23	
CB1428	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4255+50 TO 4283+50 - PLAN AND PROFILE	SHEET 9 OF 23	
CB1429	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4283+50 TO 4311+50 - PLAN AND PROFILE	SHEET 10 OF 23	
CB1430	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4311+50 TO 4367+50 - PLAN AND PROFILE	SHEET 11 OF 23	
CB1431	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4367+50 TO 4423+50 - PLAN AND PROFILE	SHEET 12 OF 23	
CB1432	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4423+50 TO 4479+50 - PLAN AND PROFILE	SHEET 13 OF 23	
CB1433	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4479+50 TO 4535+50 - PLAN AND PROFILE	SHEET 14 OF 23	
CB1434	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4535+50 TO 4591+50 - PLAN AND PROFILE	SHEET 15 OF 23	
CB1435	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4591+50 TO 4647+50 - PLAN AND PROFILE	SHEET 16 OF 23	
CB1436	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4647+50 TO 4703+50 - PLAN AND PROFILE	SHEET 17 OF 23	
CB1437	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4703+50 TO 4759+50 - PLAN AND PROFILE	SHEET 18 OF 23	
CB1438	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4759+50 TO 4815+50 - PLAN AND PROFILE	SHEET 19 OF 23	

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALIGNMENT  
INDEX OF SHEETS  
SHEET 3 OF 6

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0005  
SCALE  
NO SCALE  
SHEET NO.  
6 OF 16



### ALIGNMENT A2 - CONT'D

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1439	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4815+50 TO 4871+50 - PLAN AND PROFILE	SHEET 20 OF 23	2
CB1440	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - STA.4871+50 TO 4924+61 - PLAN AND PROFILE	SHEET 21 OF 23	
CB3421	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - CROSS SECTIONS	SHEET 22 OF 23	
CB3422	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - CROSS SECTIONS	SHEET 23 OF 23	

### ALIGNMENT L1

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1525	POSO CREEK SUBSECTION - ALIGNMENT L1 - STA.5154+50 TO 5322+49 - KEY MAP	SHEET 1 OF 6	2
CB1526	POSO CREEK SUBSECTION - ALIGNMENT L1 - STA.5154+50 TO 5210+50 - PLAN AND PROFILE	SHEET 2 OF 6	
CB1527	POSO CREEK SUBSECTION - ALIGNMENT L1 - STA.5210+50 TO 5266+50 - PLAN AND PROFILE	SHEET 3 OF 6	
CB1528	POSO CREEK SUBSECTION - ALIGNMENT L1 - STA.5266+50 TO 5322+49 - PLAN AND PROFILE	SHEET 4 OF 6	
CB3526	POSO CREEK SUBSECTION - ALIGNMENT L1 - CROSS SECTIONS	SHEET 5 OF 6	
CB3527	POSO CREEK SUBSECTION - ALIGNMENT L1 - CROSS SECTIONS	SHEET 6 OF 6	

### ALIGNMENT L2

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1550	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA.5154+50 TO 5598+51 - KEY MAP	SHEET 1 OF 13	2
CB1551	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA.5154+50 TO 5210+50 - PLAN AND PROFILE	SHEET 2 OF 13	
CB1552	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA.5210+50 TO 5266+50 - PLAN AND PROFILE	SHEET 3 OF 13	
CB1553	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA.5266+50 TO 5322+50 - PLAN AND PROFILE	SHEET 4 OF 13	
CB1554	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA.5322+50 TO 5378+50 - PLAN AND PROFILE	SHEET 5 OF 13	
CB1555	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA.5378+50 TO 5434+50 - PLAN AND PROFILE	SHEET 6 OF 13	
CB1556	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA.5434+50 TO 5490+50 - PLAN AND PROFILE	SHEET 7 OF 13	
CB1557	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA.5490+50 TO 5546+50 - PLAN AND PROFILE	SHEET 8 OF 13	
CB1558	POSO CREEK SUBSECTION - ALIGNMENT L2 - STA.5546+50 TO 5598+51 - PLAN AND PROFILE	SHEET 9 OF 13	
CB3551	POSO CREEK SUBSECTION - ALIGNMENT L2 - CROSS SECTIONS	SHEET 10 OF 13	
CB3552	POSO CREEK SUBSECTION - ALIGNMENT L2 - CROSS SECTIONS	SHEET 11 OF 13	
CB3553	POSO CREEK SUBSECTION - ALIGNMENT L2 - CROSS SECTIONS	SHEET 12 OF 13	
CB3554	POSO CREEK SUBSECTION - ALIGNMENT L2 - CROSS SECTIONS	SHEET 13 OF 13	

### ALIGNMENT L3

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1575	POSO CREEK SUBSECTION - ALIGNMENT L3 - STA.5154+50 TO 5322+50 - KEY MAP	SHEET 1 OF 7	2
CB1576	POSO CREEK SUBSECTION - ALIGNMENT L3 - STA.5154+50 TO 5210+50 - PLAN AND PROFILE	SHEET 2 OF 7	
CB1577	POSO CREEK SUBSECTION - ALIGNMENT L3 - STA.5210+50 TO 5266+50 - PLAN AND PROFILE	SHEET 3 OF 7	
CB1578	POSO CREEK SUBSECTION - ALIGNMENT L3 - STA.5266+50 TO 5322+50 - PLAN AND PROFILE	SHEET 4 OF 7	
CB3576	POSO CREEK SUBSECTION - ALIGNMENT L3 - CROSS SECTIONS	SHEET 5 OF 7	
CB3577	POSO CREEK SUBSECTION - ALIGNMENT L3 - CROSS SECTIONS	SHEET 6 OF 7	
CB3578	POSO CREEK SUBSECTION - ALIGNMENT L3 - CROSS SECTIONS	SHEET 7 OF 7	

### ALIGNMENT L4

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1600	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA.5154+50 TO 5599+92 - KEY MAP	SHEET 1 OF 16	2
CB1601	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA.5154+50 TO 5210+50 - PLAN AND PROFILE	SHEET 2 OF 16	
CB1602	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA.5210+50 TO 5266+50 - PLAN AND PROFILE	SHEET 3 OF 16	
CB1603	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA.5266+50 TO 5322+50 - PLAN AND PROFILE	SHEET 4 OF 16	
CB1604	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA.5322+50 TO 5378+50 - PLAN AND PROFILE	SHEET 5 OF 16	
CB1605	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA.5378+50 TO 5434+50 - PLAN AND PROFILE	SHEET 6 OF 16	
CB1606	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA.5434+50 TO 5490+50 - PLAN AND PROFILE	SHEET 7 OF 16	
CB1607	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA.5490+50 TO 5546+50 - PLAN AND PROFILE	SHEET 8 OF 16	
CB1608	POSO CREEK SUBSECTION - ALIGNMENT L4 - STA.5546+50 TO 5599+92 - PLAN AND PROFILE	SHEET 9 OF 16	
CB3601	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 10 OF 16	
CB3602	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 11 OF 16	
CB3603	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 12 OF 16	
CB3604	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 13 OF 16	
CB3605	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 14 OF 16	
CB3606	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 15 OF 16	
CB3607	POSO CREEK SUBSECTION - ALIGNMENT L4 - CROSS SECTIONS	SHEET 16 OF 16	

### ALIGNMENT WS1

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1448	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5422+50 TO 6511+96 - KEY MAP	SHEET 1 OF 32	2
CB1449	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5422+50 TO 5478+50 - PLAN AND PROFILE	SHEET 2 OF 32	
CB1450	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5478+50 TO 5534+50 - PLAN AND PROFILE	SHEET 3 OF 32	
CB1451	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5534+50 TO 5562+50 - PLAN AND PROFILE	SHEET 4 OF 32	
CB1452	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5562+50 TO 5590+50 - PLAN AND PROFILE	SHEET 5 OF 32	
CB1453	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5590+50 TO 5618+50 - PLAN AND PROFILE	SHEET 6 OF 32	
CB1454	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5618+50 TO 5646+50 - PLAN AND PROFILE	SHEET 7 OF 32	
CB1455	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5646+50 TO 5702+50 - PLAN AND PROFILE	SHEET 8 OF 32	
CB1456	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5702+50 TO 5758+50 - PLAN AND PROFILE	SHEET 9 OF 32	
CB1457	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5758+50 TO 5814+50 - PLAN AND PROFILE	SHEET 10 OF 32	
CB1458	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5814+50 TO 5870+50 - PLAN AND PROFILE	SHEET 11 OF 32	
CB1459	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5870+50 TO 5926+50 - PLAN AND PROFILE	SHEET 12 OF 32	
CB1460	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5926+50 TO 5954+50 - PLAN AND PROFILE	SHEET 13 OF 32	
CB1461	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5954+50 TO 5982+50 - PLAN AND PROFILE	SHEET 14 OF 32	
CB1462	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.5982+50 TO 6010+50 - PLAN AND PROFILE	SHEET 15 OF 32	
CB1463	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.6010+50 TO 6038+50 - PLAN AND PROFILE	SHEET 16 OF 32	
CB1464	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.6038+50 TO 6094+50 - PLAN AND PROFILE	SHEET 17 OF 32	
CB1465	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.6094+50 TO 6150+50 - PLAN AND PROFILE	SHEET 18 OF 32	
CB1466	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.6150+50 TO 6206+50 - PLAN AND PROFILE	SHEET 19 OF 32	
CB1467	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.6206+50 TO 6262+50 - PLAN AND PROFILE	SHEET 20 OF 32	
CB1468	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.6262+50 TO 6318+50 - PLAN AND PROFILE	SHEET 21 OF 32	
CB1469	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.6318+50 TO 6374+50 - PLAN AND PROFILE	SHEET 22 OF 32	
CB1470	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.6374+50 TO 6430+50 - PLAN AND PROFILE	SHEET 23 OF 32	
CB1471	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.6430+50 TO 6486+50 - PLAN AND PROFILE	SHEET 24 OF 32	
CB1472	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - STA.6486+50 TO 6511+96 - PLAN AND PROFILE	SHEET 25 OF 32	

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REV	DATE	BY	CHK	APP	DESCRIPTION

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K. SEYMOUR  
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ALIGNMENT  
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### ALIGNMENT WS1 - CONT'D

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB3446	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 26 OF 32	2
CB3447	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 27 OF 32	
CB3448	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 28 OF 32	
CB3449	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 29 OF 32	
CB3450	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 30 OF 32	
CB3451	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 31 OF 32	
CB3452	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - CROSS SECTIONS	SHEET 32 OF 32	

### ALIGNMENT WS2

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB1483	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.5703+35 TO 6468+56 - KEY MAP	SHEET 1 OF 19	2
CB1484	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.5703+35 TO 5758+50 - PLAN AND PROFILE	SHEET 2 OF 19	
CB1485	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.5758+50 TO 5814+50 - PLAN AND PROFILE	SHEET 3 OF 19	
CB1486	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.5814+50 TO 5870+50 - PLAN AND PROFILE	SHEET 4 OF 19	
CB1487	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.5870+50 TO 5926+50 - PLAN AND PROFILE	SHEET 5 OF 19	
CB1488	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.5926+50 TO 5982+50 - PLAN AND PROFILE	SHEET 6 OF 19	
CB1489	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.5982+50 TO 6038+50 - PLAN AND PROFILE	SHEET 7 OF 19	
CB1490	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.6038+50 TO 6094+50 - PLAN AND PROFILE	SHEET 8 OF 19	
CB1491	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.6094+50 TO 6150+50 - PLAN AND PROFILE	SHEET 9 OF 19	
CB1492	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.6150+50 TO 6206+50 - PLAN AND PROFILE	SHEET 10 OF 19	
CB1493	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.6206+50 TO 6262+50 - PLAN AND PROFILE	SHEET 11 OF 19	
CB1494	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.6262+50 TO 6318+50 - PLAN AND PROFILE	SHEET 12 OF 19	
CB1495	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.6318+50 TO 6374+50 - PLAN AND PROFILE	SHEET 13 OF 19	
CB1496	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.6374+50 TO 6430+50 - PLAN AND PROFILE	SHEET 14 OF 19	
CB1497	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - STA.6430+50 TO 6468+56 - PLAN AND PROFILE	SHEET 15 OF 19	
CB3476	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - CROSS SECTIONS	SHEET 16 OF 19	
CB3477	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - CROSS SECTIONS	SHEET 17 OF 19	
CB3478	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - CROSS SECTIONS	SHEET 18 OF 19	
CB3479	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - CROSS SECTIONS	SHEET 19 OF 19	

### ALIGNMENT B1

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB0764	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.6799+47 TO 7431+00 - KEY MAP	SHEET 1 OF 37	2
CB0765	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.6799+47 TO 6828+00 - PLAN AND PROFILE	SHEET 2 OF 37	
CB0766	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.6828+00 TO 6856+00 - PLAN AND PROFILE	SHEET 3 OF 37	
CB0767	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.6856+00 TO 6884+00 - PLAN AND PROFILE	SHEET 4 OF 37	
CB0768	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.6884+00 TO 6912+00 - PLAN AND PROFILE	SHEET 5 OF 37	
CB0769	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.6912+00 TO 6940+00 - PLAN AND PROFILE	SHEET 6 OF 37	
CB0770	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.6940+00 TO 6968+00 - PLAN AND PROFILE	SHEET 7 OF 37	
CB0771	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.6968+00 TO 6996+00 - PLAN AND PROFILE	SHEET 8 OF 37	
CB0772	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.6996+00 TO 7024+00 - PLAN AND PROFILE	SHEET 9 OF 37	
CB0773	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7024+00 TO 7052+00 - PLAN AND PROFILE	SHEET 10 OF 37	
CB0774	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7052+00 TO 7080+00 - PLAN AND PROFILE	SHEET 11 OF 37	
CB0775	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7080+00 TO 7108+00 - PLAN AND PROFILE	SHEET 12 OF 37	
CB0776	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7108+00 TO 7136+00 - PLAN AND PROFILE	SHEET 13 OF 37	
CB0777	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7136+00 TO 7164+00 - PLAN AND PROFILE	SHEET 14 OF 37	
CB0778	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7164+00 TO 7192+00 - PLAN AND PROFILE	SHEET 15 OF 37	
CB0779	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7192+00 TO 7220+00 - PLAN AND PROFILE	SHEET 16 OF 37	
CB0780	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7220+00 TO 7234+00 - PLAN AND PROFILE	SHEET 17 OF 37	
CB0781	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7234+00 TO 7248+00 - PLAN AND PROFILE	SHEET 18 OF 37	
CB0782	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7248+00 TO 7262+00 - PLAN AND PROFILE	SHEET 19 OF 37	
CB0783	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7262+00 TO 7276+00 - PLAN AND PROFILE	SHEET 20 OF 37	
CB0784	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7276+00 TO 7290+00 - PLAN AND PROFILE	SHEET 21 OF 37	
CB0785	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7290+00 TO 7304+00 - PLAN AND PROFILE	SHEET 22 OF 37	
CB0786	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7304+00 TO 7332+00 - PLAN AND PROFILE	SHEET 23 OF 37	
CB0787	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7332+00 TO 7360+00 - PLAN AND PROFILE	SHEET 24 OF 37	
CB0788	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7360+00 TO 7388+00 - PLAN AND PROFILE	SHEET 25 OF 37	
CB0789	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7388+00 TO 7416+00 - PLAN AND PROFILE	SHEET 26 OF 37	
CB0790	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - STA.7416+00 TO 7431+00 - PLAN AND PROFILE	SHEET 27 OF 37	
CB3701	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - CROSS SECTIONS	SHEET 28 OF 37	
CB3702	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - CROSS SECTIONS	SHEET 29 OF 37	
CB3703	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - CROSS SECTIONS	SHEET 30 OF 37	
CB3704	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - CROSS SECTIONS	SHEET 31 OF 37	
CB3705	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - CROSS SECTIONS	SHEET 32 OF 37	
CB3706	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - CROSS SECTIONS	SHEET 33 OF 37	
CB3707	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - CROSS SECTIONS	SHEET 34 OF 37	
CB3708	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - CROSS SECTIONS	SHEET 35 OF 37	
CB3709	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - CROSS SECTIONS	SHEET 36 OF 37	
CB3710	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - CROSS SECTIONS	SHEET 37 OF 37	

NOT INCLUDED IN THIS PROJECT

NOT INCLUDED IN THIS PROJECT

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
K. SEYMOUR  
DRAWN BY  
P. TONKIN  
CHECKED BY  
D. HUNT  
IN CHARGE  
A. LUFT  
DATE  
06/30/11

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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

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HSR 06-0003  
DRAWING NO.  
CB0007  
SCALE  
NO SCALE  
SHEET NO.  
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# ALIGNMENT B2

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.	PART NO.
CB0791	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.6799+21 TO 7427+00 - KEY MAP	SHEET 1 OF 38	2
CB0792	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.6799+21 TO 6828+00 - PLAN AND PROFILE	SHEET 2 OF 38	
CB0793	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.6828+00 TO 6856+00 - PLAN AND PROFILE	SHEET 3 OF 38	
CB0794	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.6856+00 TO 6884+00 - PLAN AND PROFILE	SHEET 4 OF 38	
CB0795	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.6884+00 TO 6912+00 - PLAN AND PROFILE	SHEET 5 OF 38	
CB0796	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.6912+00 TO 6940+00 - PLAN AND PROFILE	SHEET 6 OF 38	
CB0797	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.6940+00 TO 6968+00 - PLAN AND PROFILE	SHEET 7 OF 38	
CB0798	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.6968+00 TO 6996+00 - PLAN AND PROFILE	SHEET 8 OF 38	
CB0799	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.6996+00 TO 7024+00 - PLAN AND PROFILE	SHEET 9 OF 38	
CB0800	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7024+00 TO 7052+00 - PLAN AND PROFILE	SHEET 10 OF 38	
CB0801	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7052+00 TO 7080+00 - PLAN AND PROFILE	SHEET 11 OF 38	
CB0802	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7080+00 TO 7108+00 - PLAN AND PROFILE	SHEET 12 OF 38	
CB0803	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7108+00 TO 7136+00 - PLAN AND PROFILE	SHEET 13 OF 38	
CB0804	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7136+00 TO 7164+00 - PLAN AND PROFILE	SHEET 14 OF 38	
CB0805	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7164+00 TO 7192+00 - PLAN AND PROFILE	SHEET 15 OF 38	
CB0806	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7192+00 TO 7220+00 - PLAN AND PROFILE	SHEET 16 OF 38	
CB0807	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7220+00 TO 7234+00 - PLAN AND PROFILE	SHEET 17 OF 38	
CB0808	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7234+00 TO 7248+00 - PLAN AND PROFILE	SHEET 18 OF 38	
CB0809	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7248+00 TO 7262+00 - PLAN AND PROFILE	SHEET 19 OF 38	
CB0810	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7262+00 TO 7276+00 - PLAN AND PROFILE	SHEET 20 OF 38	
CB0811	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7276+00 TO 7290+00 - PLAN AND PROFILE	SHEET 21 OF 38	
CB0812	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7290+00 TO 7304+00 - PLAN AND PROFILE	SHEET 22 OF 38	
CB0813	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7304+00 TO 7332+00 - PLAN AND PROFILE	SHEET 23 OF 38	
CB0814	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7332+00 TO 7360+00 - PLAN AND PROFILE	SHEET 24 OF 38	
CB0815	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7360+00 TO 7388+00 - PLAN AND PROFILE	SHEET 25 OF 38	
CB0816	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7388+00 TO 7416+00 - PLAN AND PROFILE	SHEET 26 OF 38	
CB0817	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - STA.7416+00 TO 7427+00 - PLAN AND PROFILE	SHEET 27 OF 38	
CB3801	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - CROSS SECTIONS	SHEET 28 OF 38	
CB3802	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - CROSS SECTIONS	SHEET 29 OF 38	
CB3803	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - CROSS SECTIONS	SHEET 30 OF 38	
CB3804	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - CROSS SECTIONS	SHEET 31 OF 38	
CB3805	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - CROSS SECTIONS	SHEET 32 OF 38	
CB3806	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - CROSS SECTIONS	SHEET 33 OF 38	
CB3807	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - CROSS SECTIONS	SHEET 34 OF 38	
CB3808	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - CROSS SECTIONS	SHEET 35 OF 38	
CB3809	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - CROSS SECTIONS	SHEET 36 OF 38	
CB3810	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - CROSS SECTIONS	SHEET 37 OF 38	
CB3811	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - CROSS SECTIONS	SHEET 38 OF 38	

NOT INCLUDED IN THIS PROJECT

NOT INCLUDED IN THIS PROJECT

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
K. SEYMOUR  
DRAWN BY  
P. TONKIN  
CHECKED BY  
D. HUNT  
IN CHARGE  
A. LUFT  
DATE  
06/30/11

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
  
ALIGNMENT  
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SHEET 6 OF 6

CONTRACT NO.  
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**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  
 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  
 CHSRA CALIFORNIA HIGH SPEED RAIL AUTHORITY  
 CHST CALIFORNIA HIGH SPEED TRAIN  
 CHSR CALIFORNIA HIGH SPEED RAIL

**C CONTINUED**

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

**D**

D DEPTH  
 DD DOWNDRAIN  
 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  
 EA ACTUAL SUPERELEVATION  
 EU UNBALANCED SUPERELEVATION  
 EASE EASEMENT  
 EB END OF BRIDGE, EASTBOUND  
 EC END HORIZONTAL CURVE  
 ECR END CURB RETURN  
 ED EDGE DRAIN

**E CONTINUED**

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  
 EO EQUATION  
 ES EDGE OF SHOULDER  
 ETW EDGE OF TRAVELED WAY  
 EVC END VERTICAL CURVE  
 EW ENDWALL  
 EXC EXCAVATION  
 EXIST, EX. EXISTING  
 EXP EXPANSION, EXPRESSWAY  
 EXP JT EXPANSION JOINT  
 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  
 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  
 H, HR HOUR  
 HD HORIZONTAL DRAIN  
 HDWL HEADWALL  
 HEX HD HEXAGONAL HEAD  
 HMA HOT MIXED ASPHALT  
 HORIZ HORIZONTAL  
 HP HINGE POINT, HORSEPOWER

**H CONTINUED**

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  
 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 IRON AND STEEL  
 MKR MARKER  
 M/L MAIN LINE (RAILWAY)  
 MOD MODIFIED, MODIFY  
 MON MONUMENT  
 MP METAL PLATE  
 MPGR METAL PLATE GUARD RAILING  
 MPH MILES PER HOUR  
 MR MOVEMENT RATING  
 MSE MECHANICALLY STABILIZED EMBANKMENT  
 MTL MATERIAL  
 MSS MOVING SCAFFOLDING SYSTEM

**N**

N NORTH  
 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 OVERCROSSING  
 PED UC PEDESTRIAN UNDERCROSSING  
 PERM MTL PERMEABLE MATERIAL  
 PG PROFILE GRADE  
 PI POINT OF INTERSECTION  
 PJP PARTIAL JOINT PENETRATION  
 PL, PL PLATE  
 P/L PROPERTY LINE  
 PM POST MILE, TIME FROM NOON TO MIDNIGHT  
 PN PAVING NOTCH  
 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 PERFORMED PERMEABLE LINER  
 PPP PERFORATED PLASTIC PIPE  
 PRC POINT OF REVERSE CURVE  
 PRF PAVEMENT REINFORCING FABRIC  
 PRVC POINT OF REVERSE VERTICAL CURVE  
 PS&E PLANS, SPECIFICATIONS AND ESTIMATES  
 PS, P/S PRESTRESSED  
 PSP PERFORATED STEEL PIPE  
 PT POINT OF TANGENCY  
 PVC POLYVINYL CHLORIDE  
 PVMT PAVEMENT

**Q**

QTY QUANTITY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
K. SEYMOUR  
 DRAWN BY  
P. TONKIN  
 CHECKED BY  
D. HUNT  
 IN CHARGE  
A. LUFT  
 DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

GENERAL  
ABBREVIATIONS AND LEGENDS  
SHEET 1 OF 2

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB0009  
 SCALE  
NO SCALE  
 SHEET NO.  
10 OF 16





5/13/2011 2:00:47 PM 0:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\Sheets\Rail\HSR 15% Design\General Sheets\FB-CB-001.dgn

### ALIGNMENT F1

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
1	220	70000	1.50	1.27	1000	1062
2	220	70000	1.50	1.27	1000	1182
3	220	21400	6.75	2.30	2500	13076

### ALIGNMENT H

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
4	250	45000	3.75	1.81	1500	7405
5	250	45000	3.75	1.81	1500	4788
6	250	26400	7.00	2.47	2000	17198
7	250	36500	4.00	2.85	1700	37009

### ALIGNMENT C1

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
51	250	28000	6.00	2.93	2500	9189
52	250	28000	6.00	2.93	2500	24121
53	250	350000	0.00	0.71	0	1912
54	250	350000	0.00	0.71	0	1912
55	250	120000	1.00	1.08	1200	1282
56	250	50000	3.25	1.75	1400	2175
57	250	75000	2.00	1.33	1200	4054
58	250	350000	0.00	0.71	0	5687

### ALIGNMENT C2

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
8	250	28000	6.00	2.93	2500	9271
9	250	28000	6.00	2.93	2500	24203
10	250	28000	6.00	2.93	2000	6592
11	250	28000	6.00	2.93	2000	12893
12	250	28000	6.00	2.93	2000	4455

### ALIGNMENT C3

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
60	250	28000	6.00	2.93	2500	9300
61	250	28000	6.00	2.93	2500	24307
62	250	800000	0.00	0.31	0	1778
63	250	800000	0.00	0.31	0	2017

### ALIGNMENT A1/L1

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
13	250	45000	3.75	1.81	1500	18801
14	250	45000	3.75	1.81	1500	25441
15	250	45000	3.75	1.81	1500	29558

### ALIGNMENT A2

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
71	250	45000	3.75	1.81	1500	10245
72	250	45000	3.75	1.81	1500	11174

### ALIGNMENT L2

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
91	250	45000	3.75	1.81	1500	7438
92	250	45000	3.75	1.81	1500	15880

### ALIGNMENT L4

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
111	250	360000	0.00	0.69	0	5000
112	250	45000	3.75	1.81	1500	23472

### ALIGNMENT WS1

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
16	220	22000	6.00	2.80	2100	15369
17	250	125000	1.50	0.50	1200	1411
18	250	125000	1.50	0.50	1200	1409

### ALIGNMENT WS2

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
82	250	45000	3.75	1.81	1600	10093

### ALIGNMENT B1

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
19	220	19508	6.93	3.00	1721/2041	17694
20	220	19508	6.92	3.00	2041/1680	2579
21	220	30008	3.55	2.90	956	1291
22	220	20008	6.70	2.97	1720	5347

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
K. SEYMOUR  
DRAWN BY  
P. TONKIN  
CHECKED BY  
D. HUNT  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALIGNMENT  
CURVE DATA SHEET  
SHEET 1 OF 2

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0011  
SCALE  
NO SCALE  
SHEET NO.  
12 OF 16

**ALIGNMENT B2**

CURVE No.	DESIGN SPEED (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION EA (IN)	UNBALANCED SUPERELEVATION EU (IN)	SPIRAL LENGTH LS (FT)	CURVE LENGTH LC (FT)
101	220	19608	7.00	2.88	1720/2796	16976
102	220	19608	7.00	2.87	2796/1720	1361
103	220	23508	5.25	2.98	1331	1432
104	220	27508	4.25	2.79	1334	1850
105	220	20008	7.00	2.67	1720	4097

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
K. SEYMOUR  
 DRAWN BY  
P. TONKIN  
 CHECKED BY  
D. HUNT  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
 ALIGNMENT  
 CURVE DATA SHEET  
 SHEET 2 OF 2

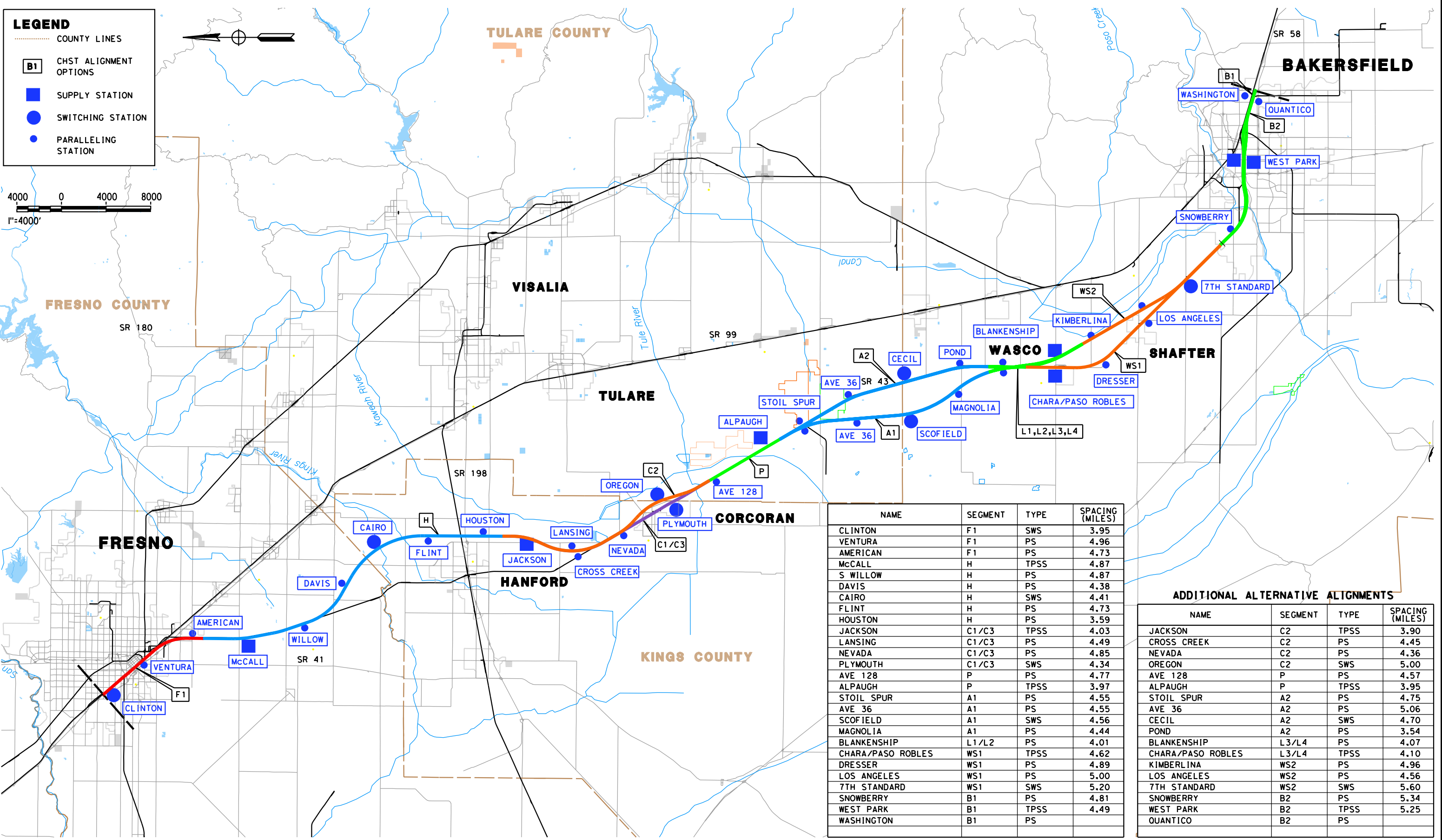
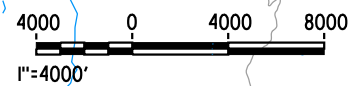
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HSR 06-0003  
 DRAWING NO.  
CB0012  
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 SHEET NO.  
13 OF 16



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**LEGEND**

- COUNTY LINES
- CHST ALIGNMENT OPTIONS
- SUPPLY STATION
- SWITCHING STATION
- PARALLELING STATION



NAME	SEGMENT	TYPE	SPACING (MILES)
CLINTON	F1	SWS	3.95
VENTURA	F1	PS	4.96
AMERICAN	F1	PS	4.73
MCCALL	H	TPSS	4.87
S WILLOW	H	PS	4.87
DAVIS	H	PS	4.38
CAIRO	H	SWS	4.41
FLINT	H	PS	4.73
HOUSTON	H	PS	3.59
JACKSON	C1/C3	TPSS	4.03
LANSING	C1/C3	PS	4.49
NEVADA	C1/C3	PS	4.85
PLYMOUTH	C1/C3	SWS	4.34
AVE 128	P	PS	4.77
ALPAUGH	P	TPSS	3.97
STOIL SPUR	A1	PS	4.55
AVE 36	A1	PS	4.55
SCOFIELD	A1	SWS	4.56
MAGNOLIA	A1	PS	4.44
BLANKENSHIP	L1/L2	PS	4.01
CHARA/PASO ROBLES	WS1	TPSS	4.62
DRESSER	WS1	PS	4.89
LOS ANGELES	WS1	PS	5.00
7TH STANDARD	WS1	SWS	5.20
SNOWBERRY	B1	PS	4.81
WEST PARK	B1	TPSS	4.49
WASHINGTON	B1	PS	

**ADDITIONAL ALTERNATIVE ALIGNMENTS**

NAME	SEGMENT	TYPE	SPACING (MILES)
JACKSON	C2	TPSS	3.90
CROSS CREEK	C2	PS	4.45
NEVADA	C2	PS	4.36
OREGON	C2	SWS	5.00
AVE 128	P	PS	4.57
ALPAUGH	P	TPSS	3.95
STOIL SPUR	A2	PS	4.75
AVE 36	A2	PS	5.06
CECIL	A2	SWS	4.70
POND	A2	PS	3.54
BLANKENSHIP	L3/L4	PS	4.07
CHARA/PASO ROBLES	L3/L4	TPSS	4.10
KIMBERLINA	WS2	PS	4.96
LOS ANGELES	WS2	PS	4.56
7TH STANDARD	WS2	SWS	5.60
SNOWBERRY	B2	PS	5.34
WEST PARK	B2	TPSS	5.25
QUANTICO	B2	PS	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
K. SEYMOUR  
DRAWN BY  
P. TONKIN  
CHECKED BY  
D. HUNT  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

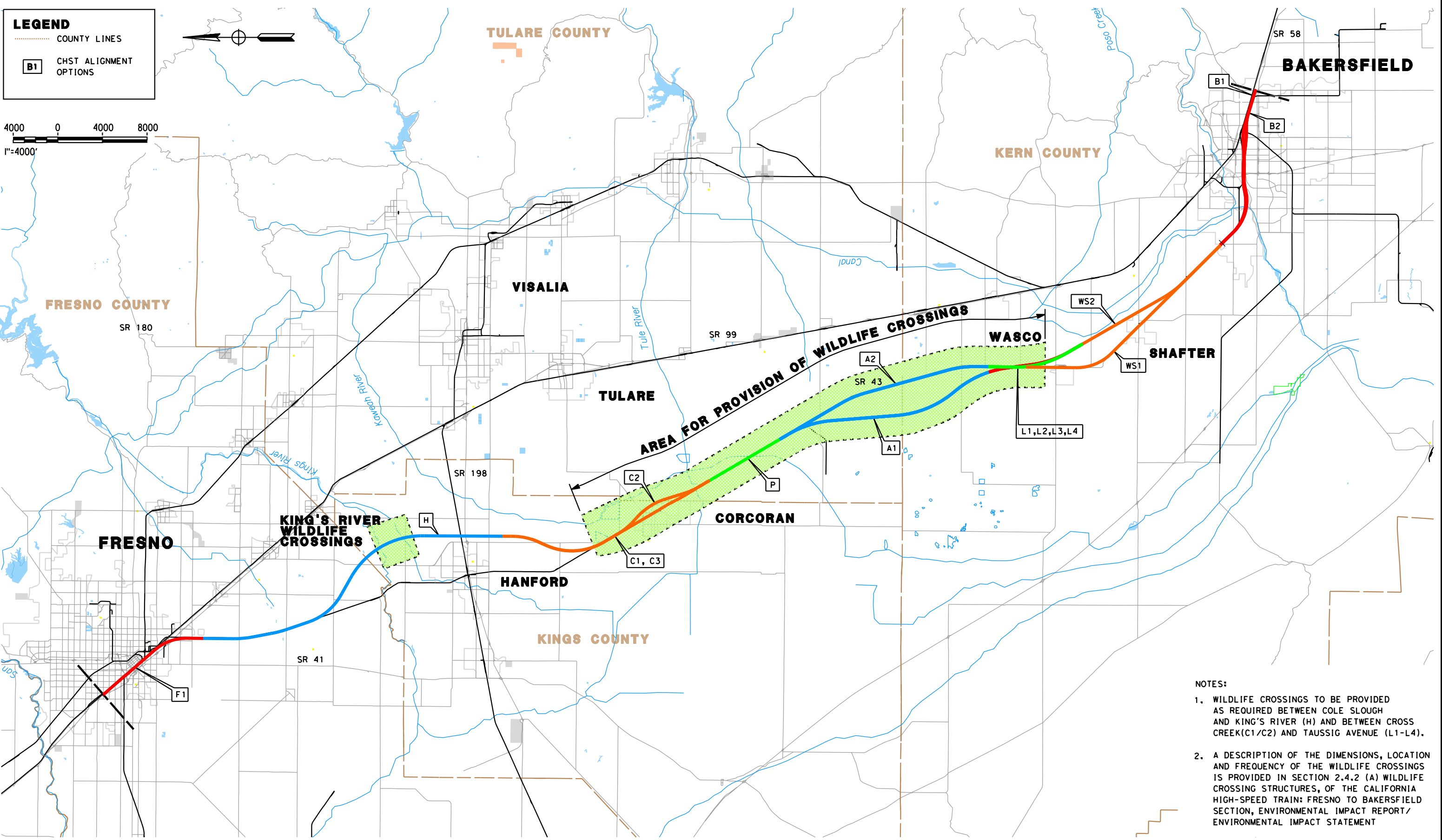
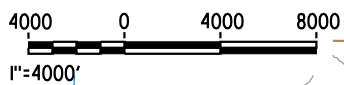
TPSS  
LOCATION MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0013  
SCALE  
AS SHOWN  
SHEET NO.  
14 OF 16

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**LEGEND**

- COUNTY LINES
- CHST ALIGNMENT OPTIONS



- NOTES:**
1. WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN COLE SLOUGH AND KING'S RIVER (H) AND BETWEEN CROSS CREEK(C1/C2) AND TAUSSIG AVENUE (L1-L4).
  2. A DESCRIPTION OF THE DIMENSIONS, LOCATION AND FREQUENCY OF THE WILDLIFE CROSSINGS IS PROVIDED IN SECTION 2.4.2 (A) WILDLIFE CROSSING STRUCTURES, OF THE CALIFORNIA HIGH-SPEED TRAIN: FRESNO TO BAKERSFIELD SECTION, ENVIRONMENTAL IMPACT REPORT/ ENVIRONMENTAL IMPACT STATEMENT

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**K. SEYMOUR**

DRAWN BY  
**P. TONKIN**

CHECKED BY  
**D. HUNT**

IN CHARGE  
**A. LUFT**

DATE  
**05/13/11**

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DESIGN SUBMISSION**

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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

WILDLIFE CROSSINGS  
LOCATION MAP

CONTRACT NO.  
HSR 06-0003

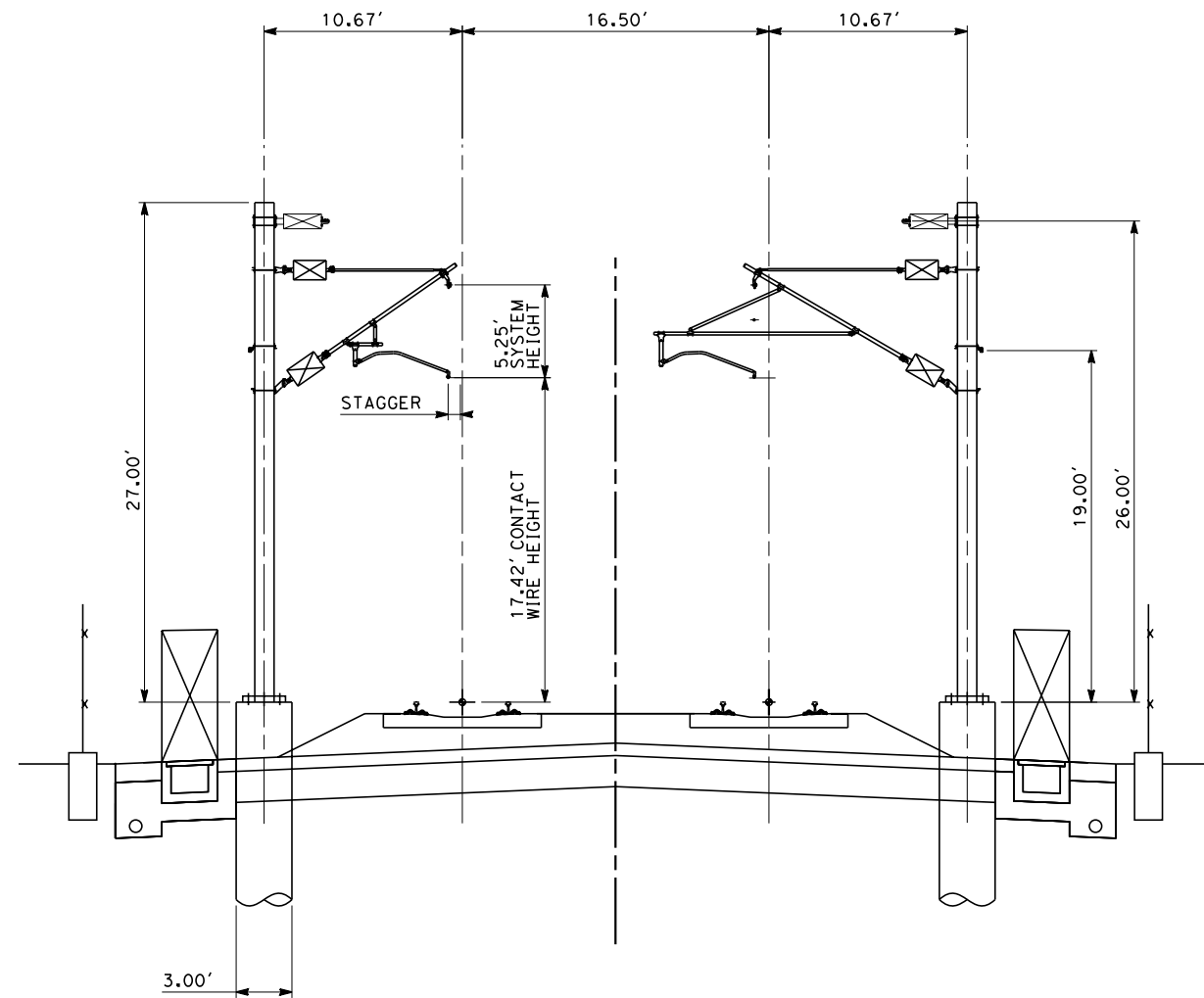
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SCALE  
AS SHOWN

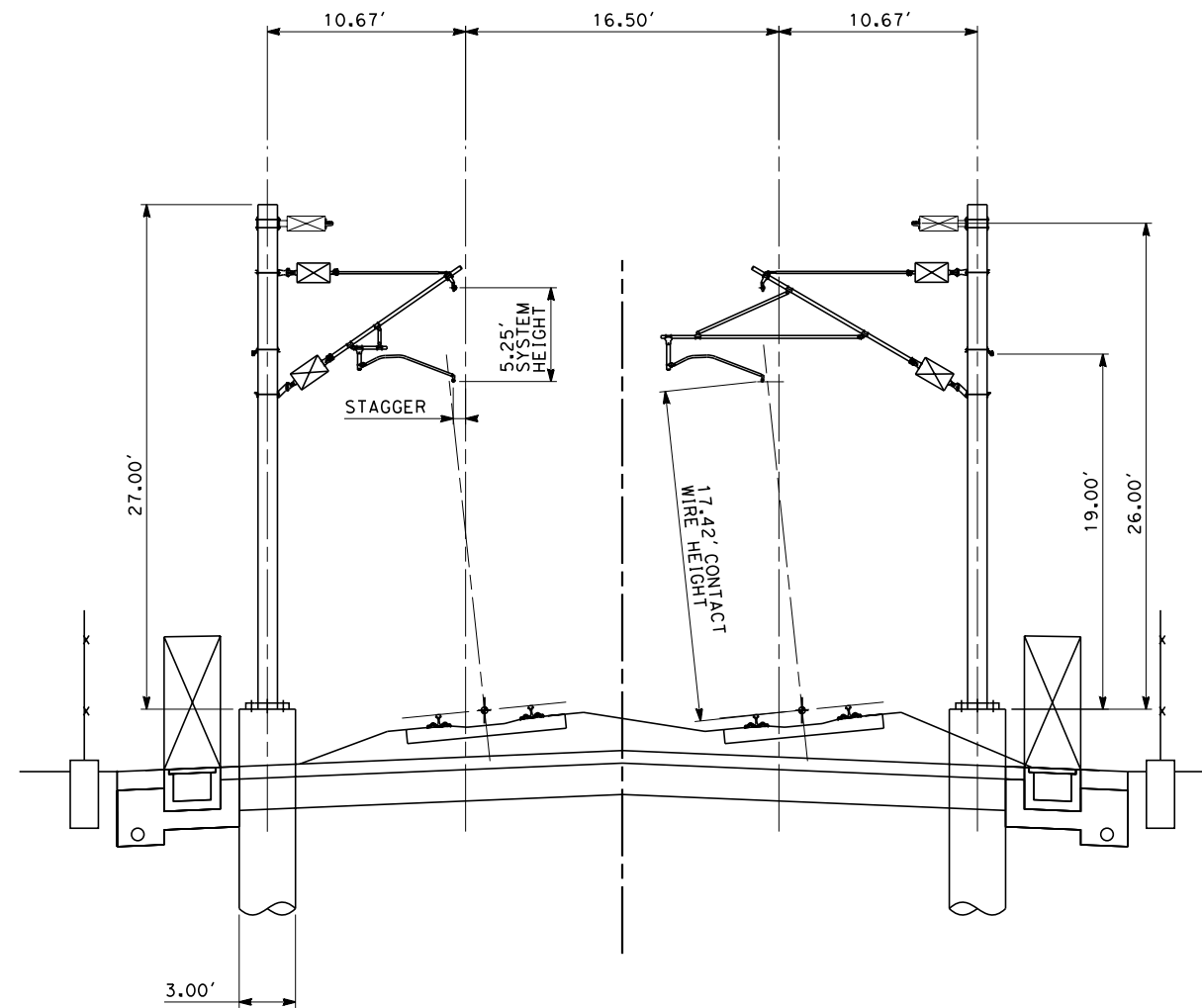
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15 OF 16

NOTES:

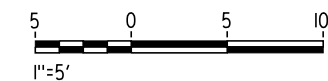
1. TRACKFORM SHOWN IS INDICATIVE
2. OCS ARRANGEMENT AS SHOWN TO BE USED THROUGHOUT FRESNO TO BAKERSFIELD SECTION WHERE POSSIBLE. OTHER OCS ARRANGEMENTS SHOULD BE CONSIDERED INDICATIVE AND MAY NOT REFLECT CURRENT LAYOUTS
3. OCS ARRANGEMENTS TAKEN FROM TM 3.2.1 - OCS REQUIREMENTS. FINAL CANTILEVER CONFIGURATION AND OTHER SPECIFICATIONS TO BE DETERMINED.



**TANGENT TRACK**



**CURVED SUPERELEVATED TRACK**



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
K. SEYMOUR  
DRAWN BY  
P. TONKIN  
CHECKED BY  
D. HUNT  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
TYPICAL OCS CONFIGURATION

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0015  
SCALE  
AS SHOWN  
SHEET NO.  
16 OF 16



5/10/2011 10:37:12 AM O:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\A1\FB-CB-1400-A1.dgn



**LEGEND**

- EXISTING FREIGHT RAILROAD
- PROPOSED CHST

3000 0 3000 6000  
1"=3000'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

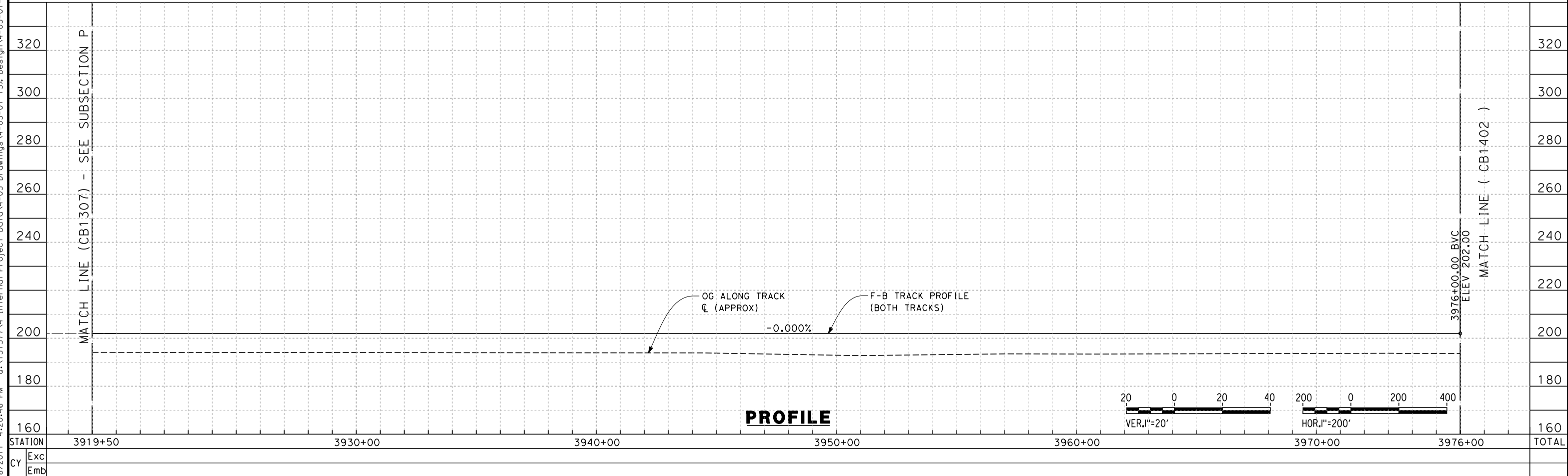
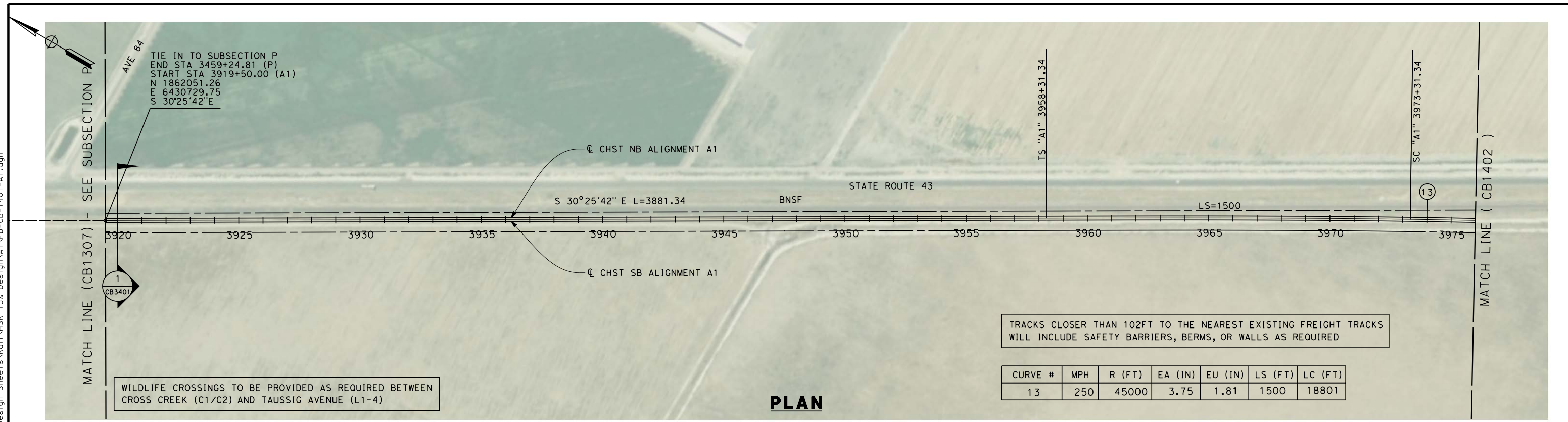


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 3920+00 TO 4926+16  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1400  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 21



7/18/2011 4:20:46 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\A1\FB-CB-1401-A1.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
 G. WALKER  
 DRAWN BY  
 A. DEAN  
 CHECKED BY  
 J. LIPSCOMB  
 IN CHARGE  
 A. LUFT  
 DATE  
 05/13/11

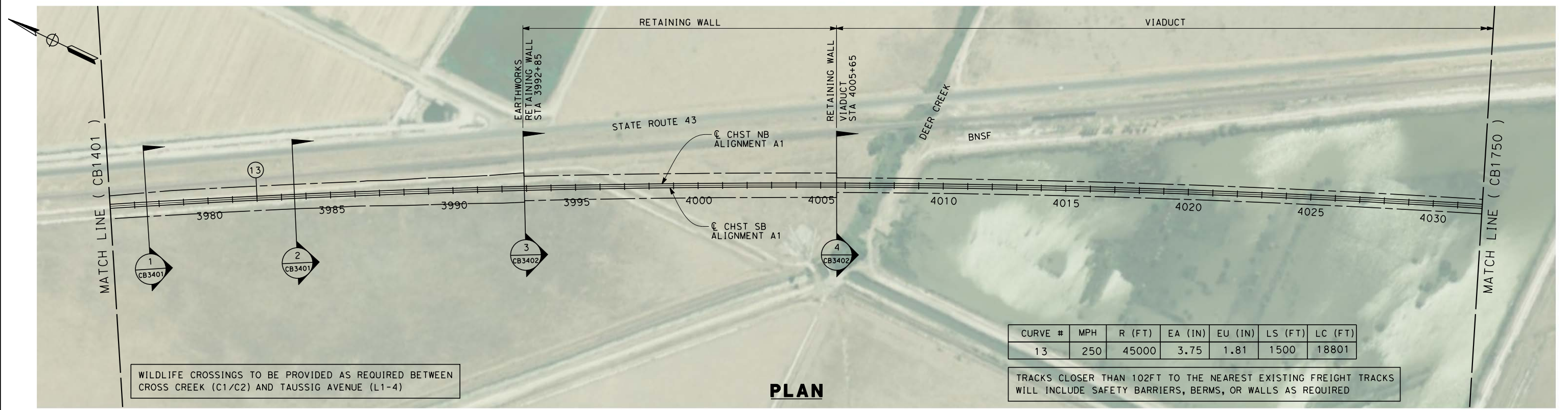
**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 ALLENSWORTH BYPASS SUBSECTION  
 ALIGNMENT A1  
 STA. 3919+50 TO 3976+00  
 PLAN AND PROFILE

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

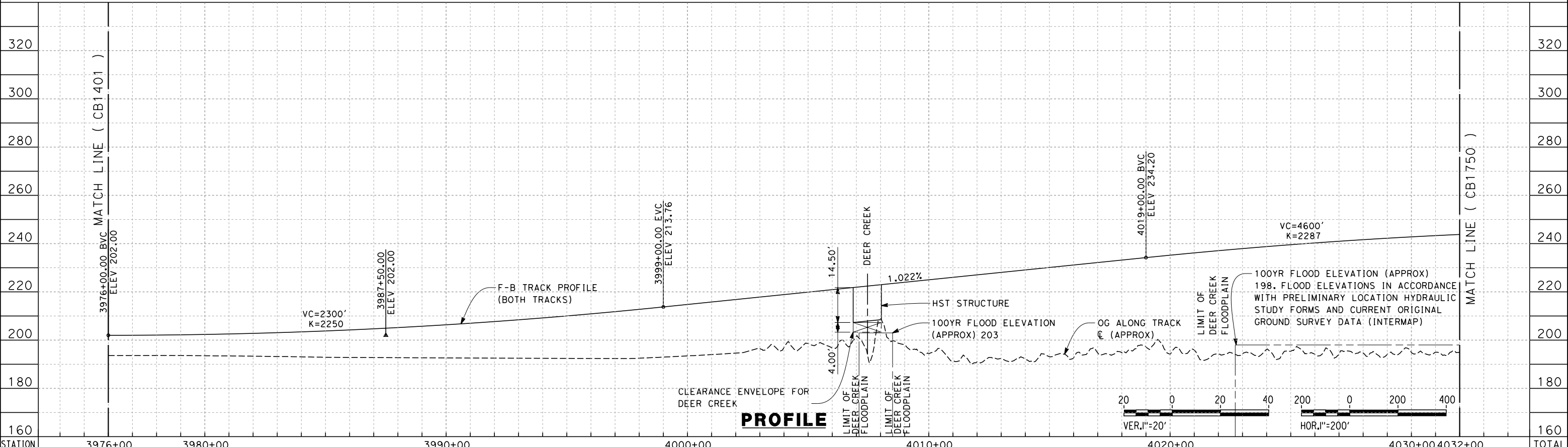
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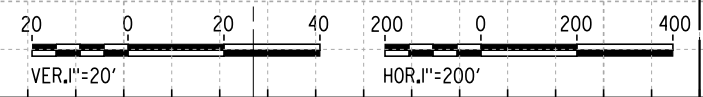
WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

**PLAN**



**PROFILE**



STATION	3976+00	3980+00	3990+00	4000+00	4010+00	4020+00	4030+00	4032+00	TOTAL
Exc									
Emb									

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
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CONSTRUCTION**



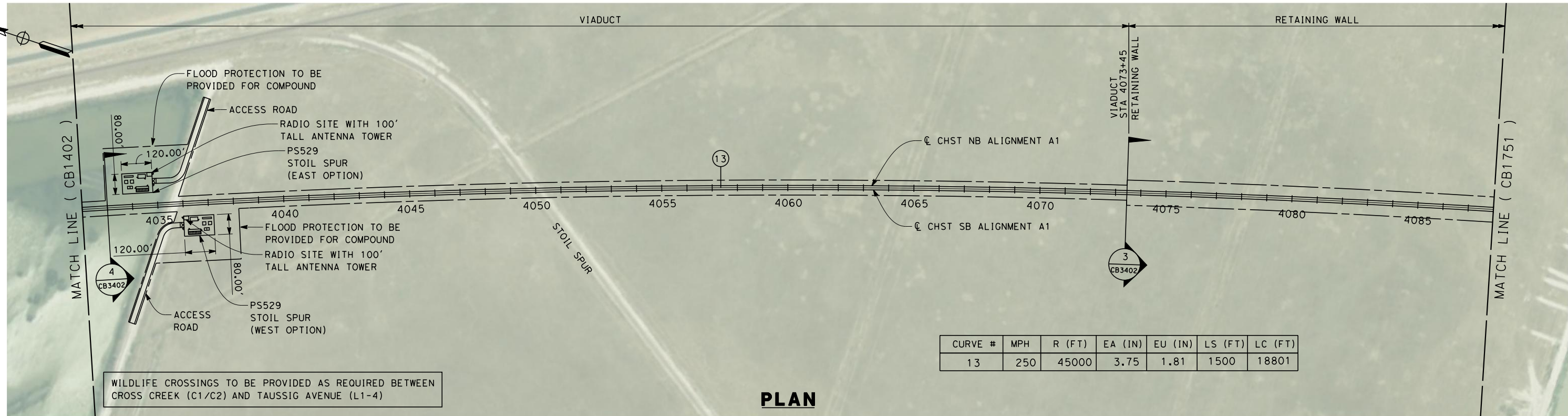
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 ALLENSWORTH BYPASS SUBSECTION  
 ALIGNMENT A1  
 STA. 3976+00 TO 4032+00  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1402  
 SCALE  
AS SHOWN  
 SHEET NO.  
3 OF 21

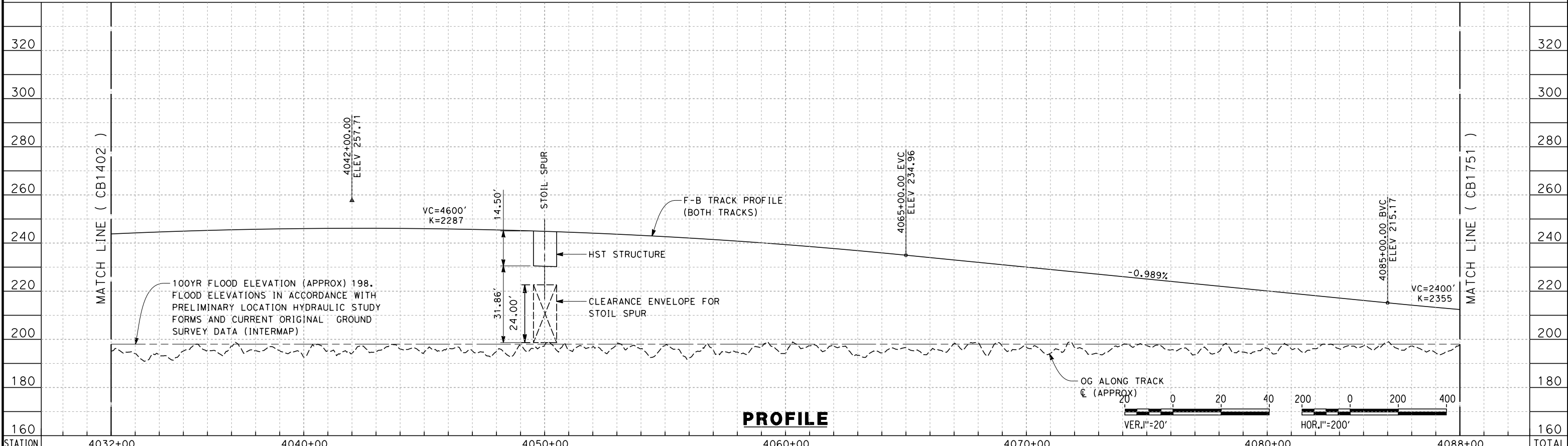
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**PLAN**



**PROFILE**

STATION	4032+00	4040+00	4050+00	4060+00	4070+00	4080+00	4088+00	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
06/30/11

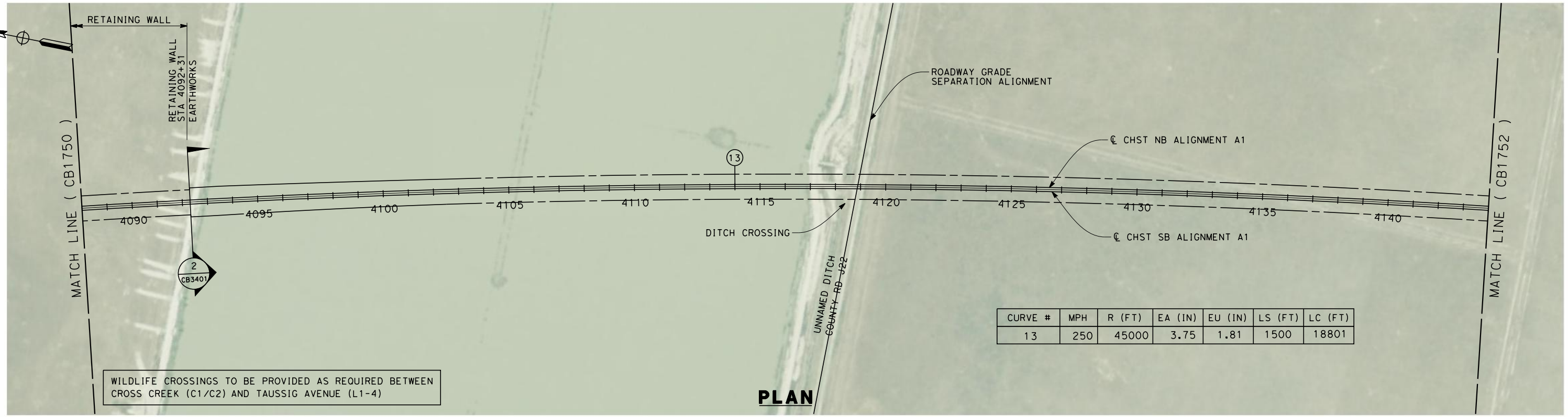
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DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 4032+00 TO 4088+00  
PLAN AND PROFILE

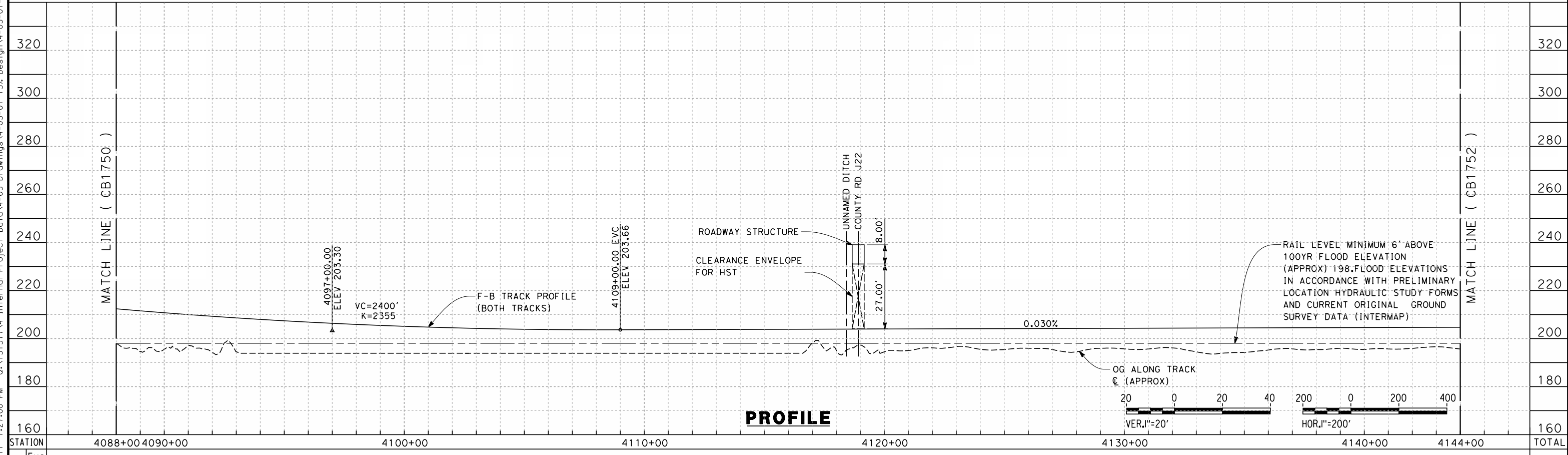
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DRAWING NO.  
CB1750  
SCALE  
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4 OF 21

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WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

**PLAN**



**PROFILE**

STATION	4088+00	4090+00	4100+00	4110+00	4120+00	4130+00	4140+00	4144+00	TOTAL
Exc									
Emb									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

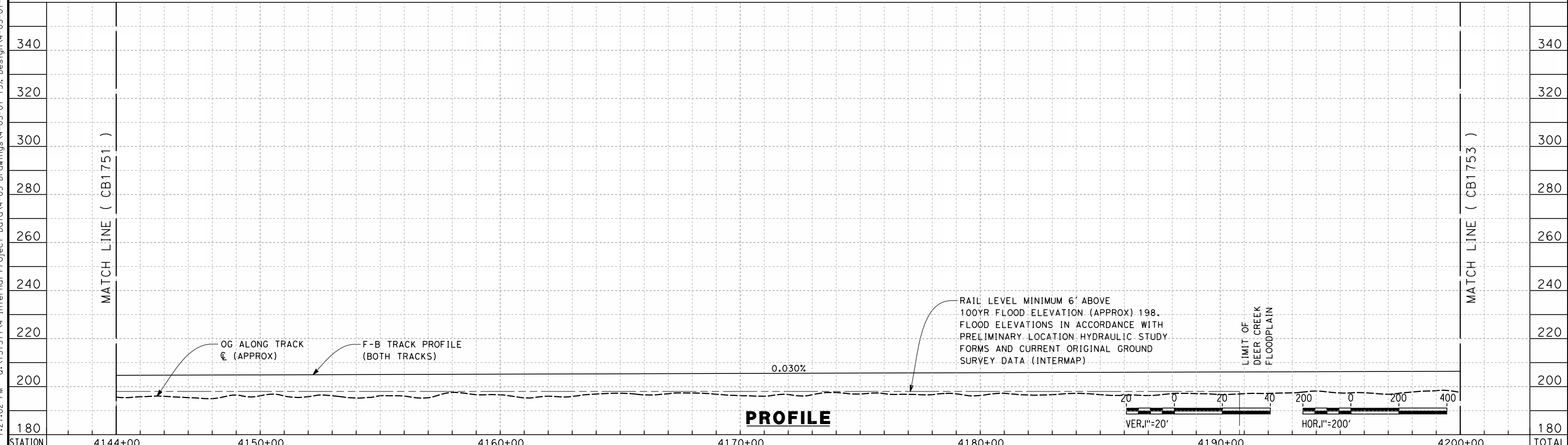
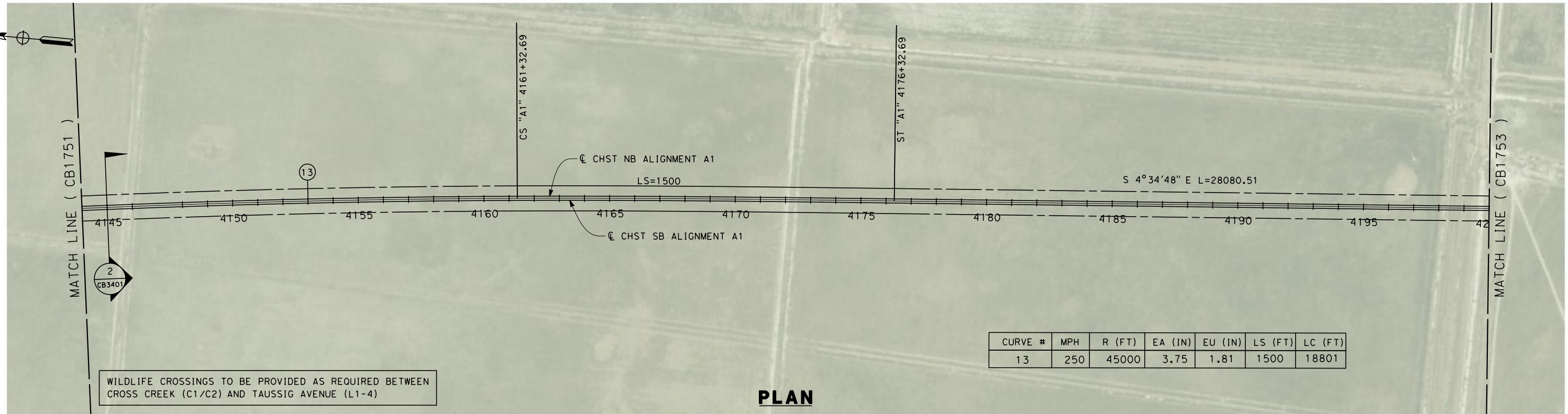


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 ALLENSWORTH BYPASS SUBSECTION  
 ALIGNMENT A1  
 STA. 4088+00 TO 4144+00  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1751  
 SCALE  
AS SHOWN  
 SHEET NO.  
5 OF 21



5/12/2011 7:27:02 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\A1\FB-CB-1752-A1.dgn



STATION	4144+00	4150+00	4160+00	4170+00	4180+00	4190+00	4200+00	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER

DRAWN BY  
A. DEAN

CHECKED BY  
J. LIPSCOMB

IN CHARGE  
A. LUFT

DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 4144+00 TO 4200+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003

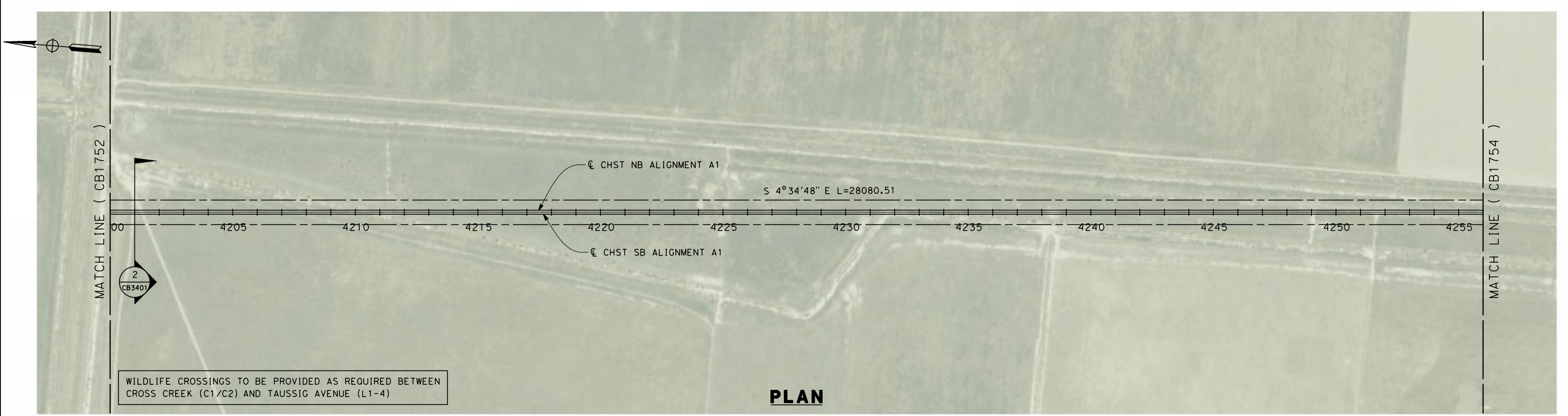
DRAWING NO.  
CB1752

SCALE  
AS SHOWN

SHEET NO.  
6 OF 21

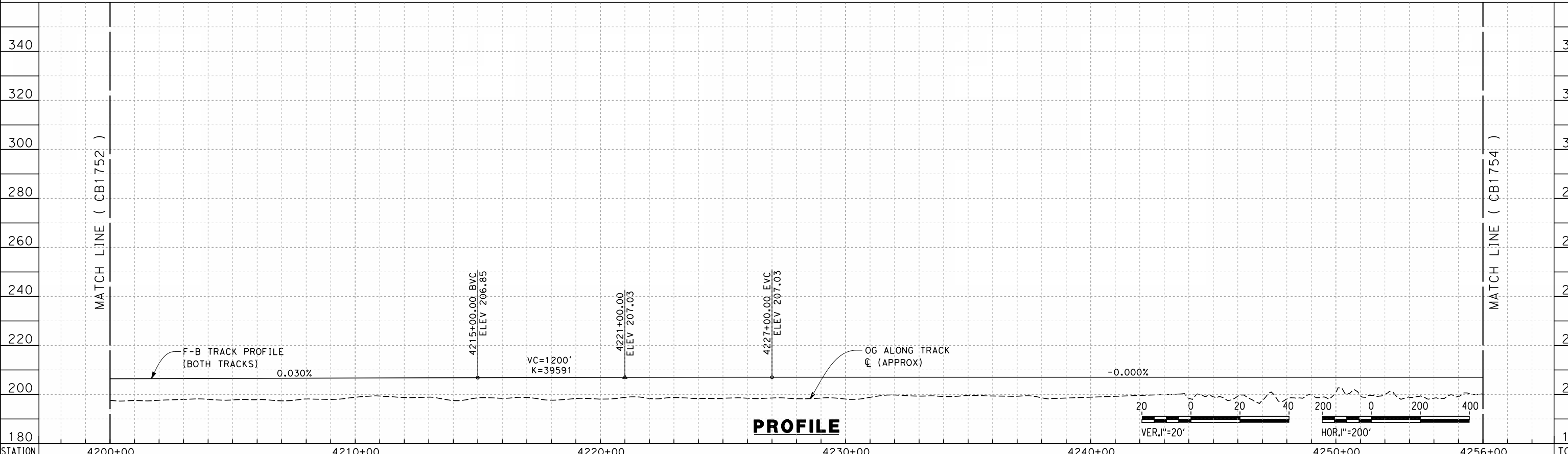


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WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

**PLAN**



**PROFILE**

STATION	4200+00	4210+00	4220+00	4230+00	4240+00	4250+00	4256+00	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



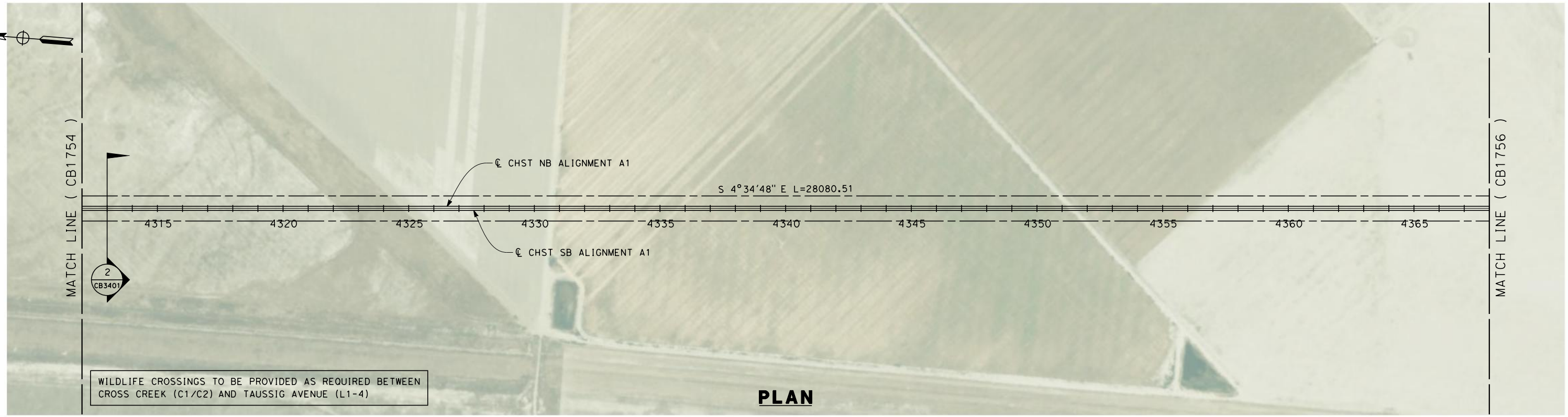
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 4200+00 TO 4256+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1753  
SCALE  
AS SHOWN  
SHEET NO.  
7 OF 21



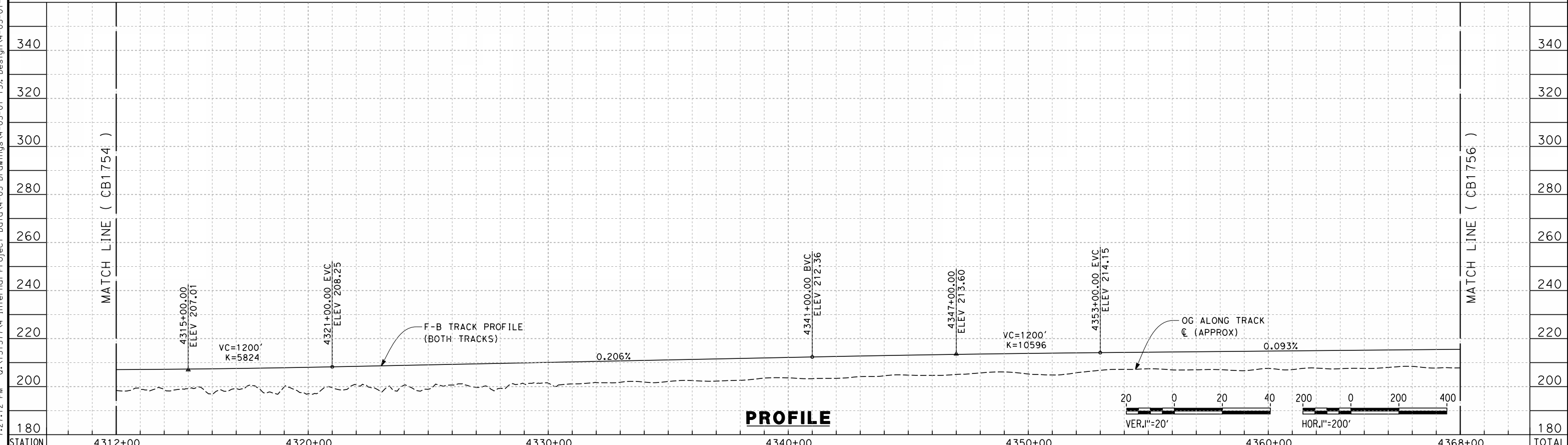


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 keith.seymour



WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

**PLAN**



**PROFILE**

STATION	4312+00	4320+00	4330+00	4340+00	4350+00	4360+00	4368+00	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

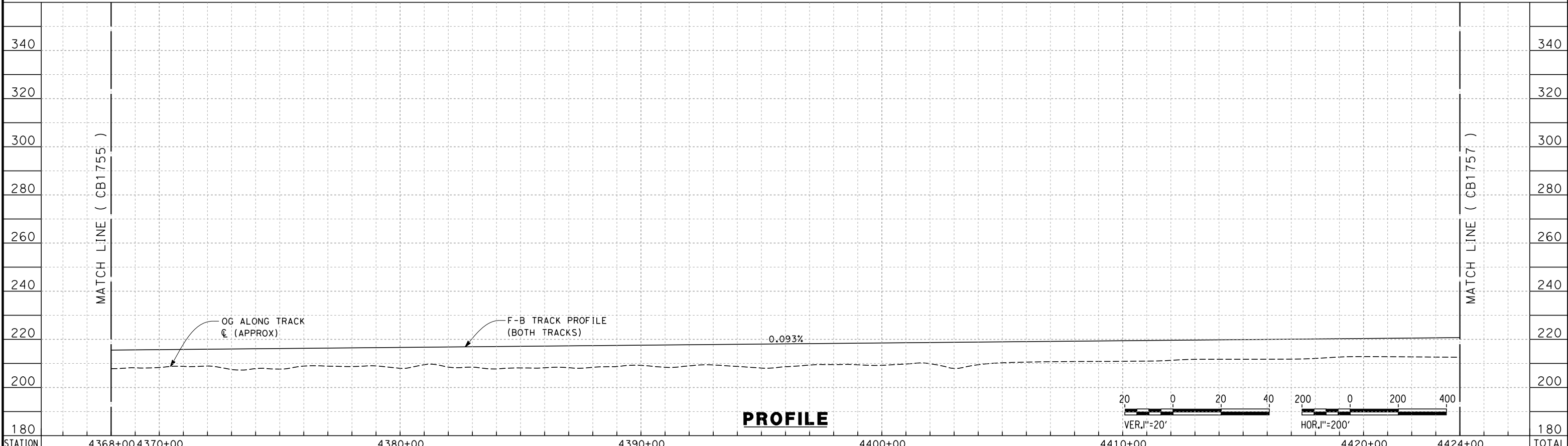
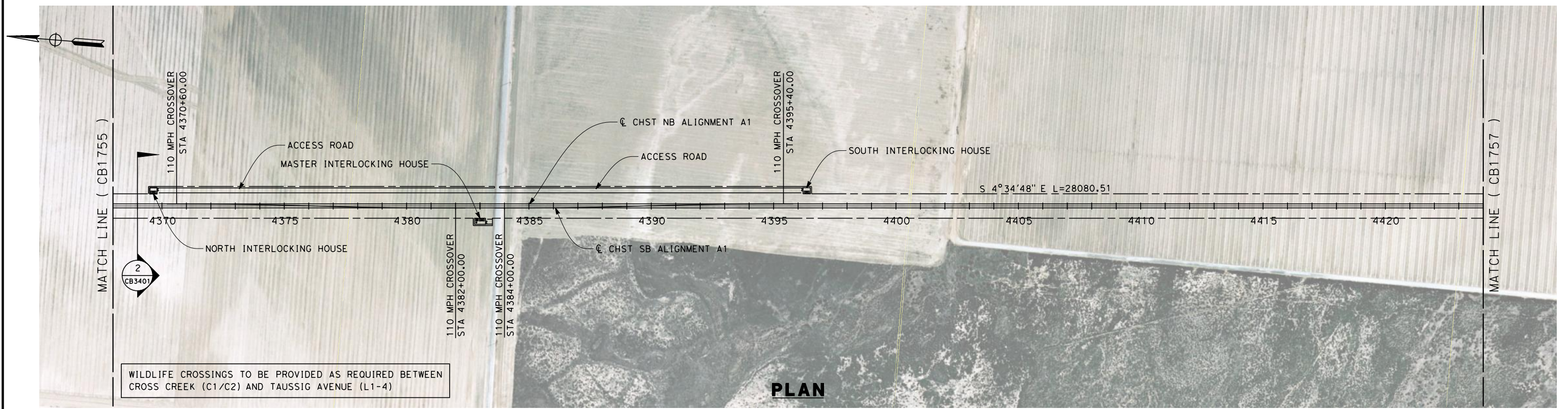


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 ALLENSWORTH BYPASS SUBSECTION  
 ALIGNMENT A1  
 STA. 4312+00 TO 4368+00  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1755  
 SCALE  
AS SHOWN  
 SHEET NO.  
9 OF 21



5/12/2011 7:27:19 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\A1\FB-CB-1756-A1.dgn



STATION	4368+00	4370+00	4380+00	4390+00	4400+00	4410+00	4420+00	4424+00	TOTAL
Exc									
Emb									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

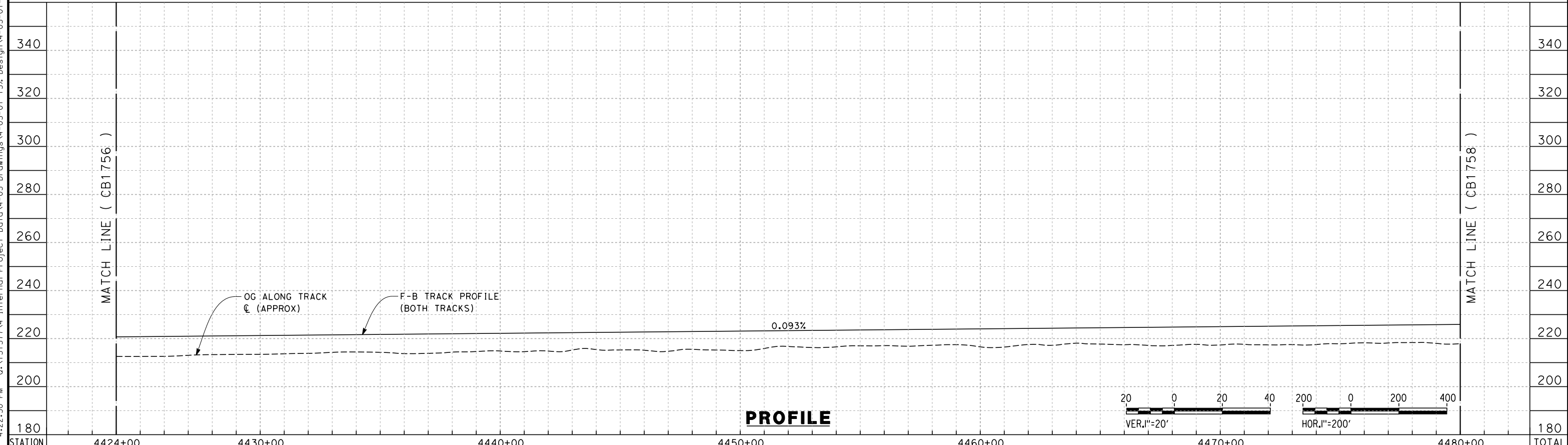
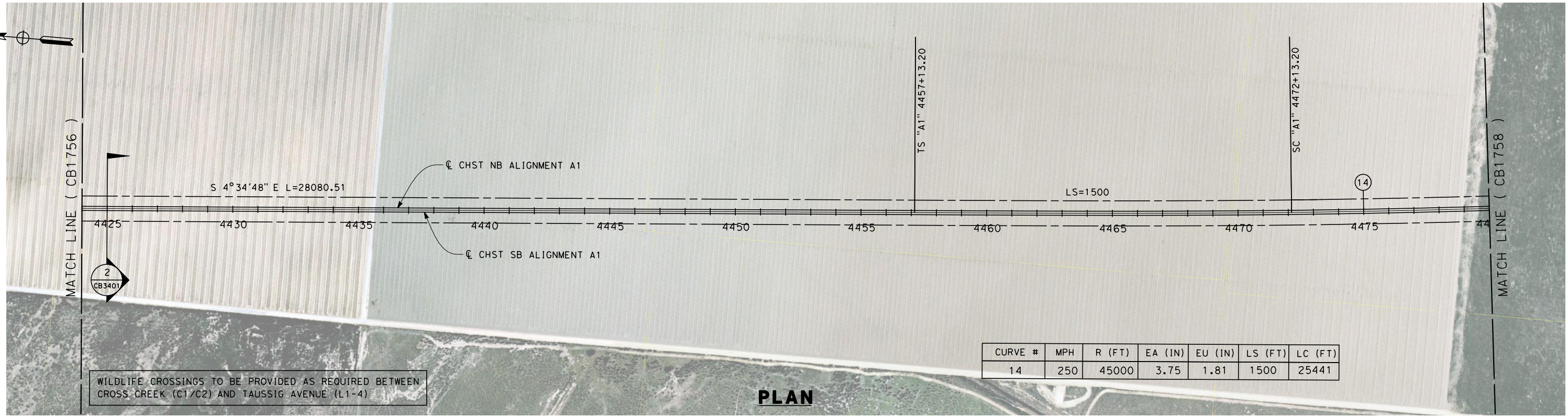


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 4368+00 TO 4424+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1756  
SCALE  
AS SHOWN  
SHEET NO.  
10 OF 21



5/12/2011 4:22:50 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\A1\FB-CB-1757-A1.dgn



STATION	4424+00	4430+00	4440+00	4450+00	4460+00	4470+00	4480+00	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



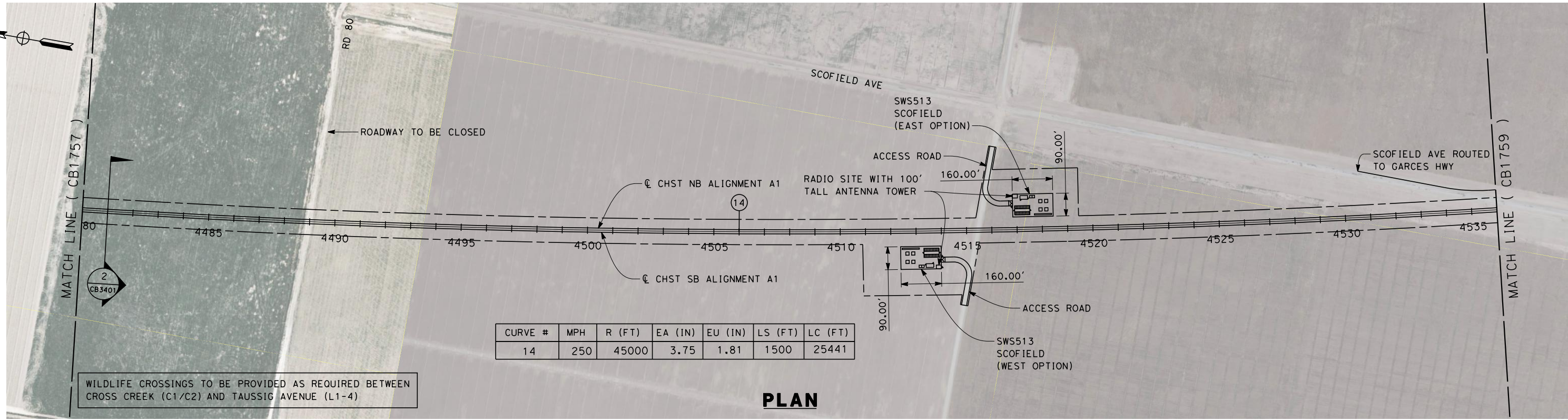
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 4424+00 TO 4480+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1757  
SCALE  
AS SHOWN  
SHEET NO.  
11 OF 21



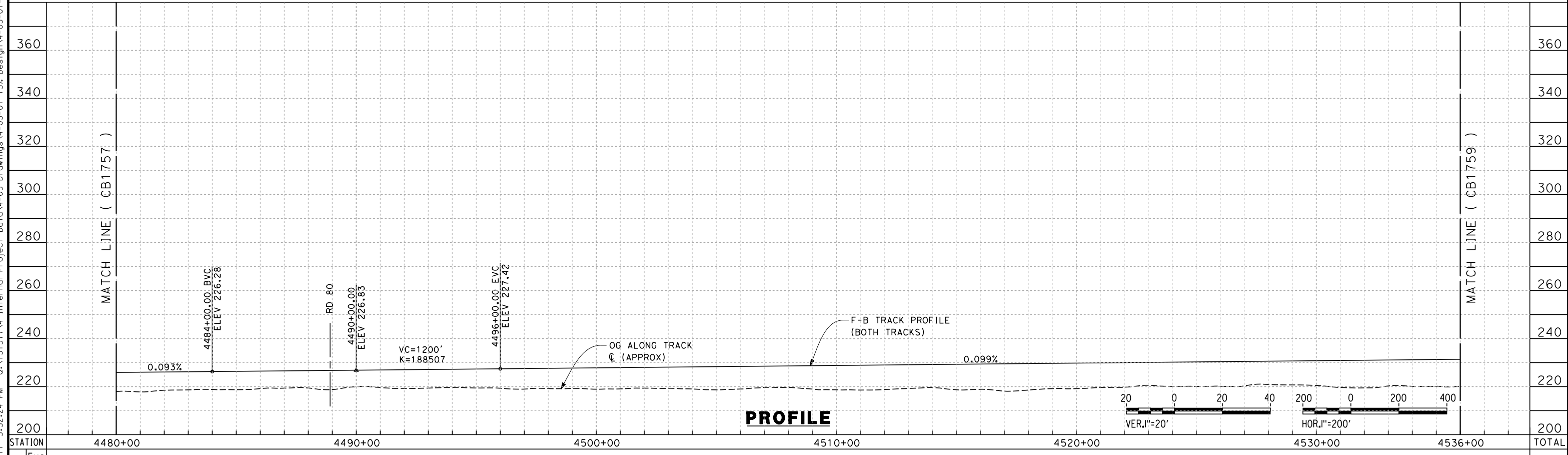
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CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
14	250	45000	3.75	1.81	1500	25441

WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

**PLAN**



**PROFILE**

STATION	4480+00	4490+00	4500+00	4510+00	4520+00	4530+00	4536+00	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

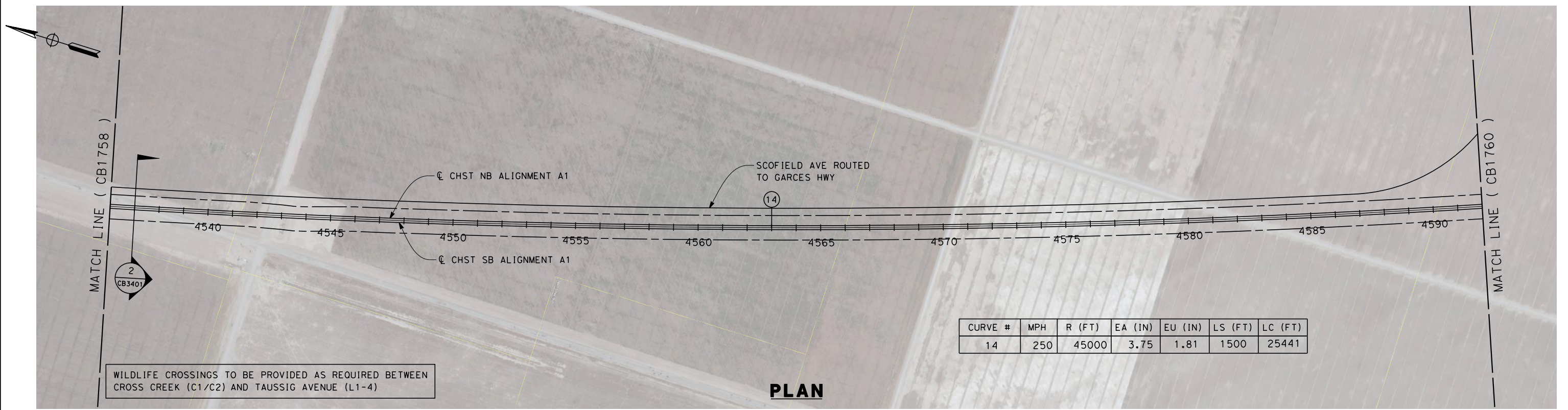


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 4480+00 TO 4536+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1758  
SCALE  
AS SHOWN  
SHEET NO.  
12 OF 21

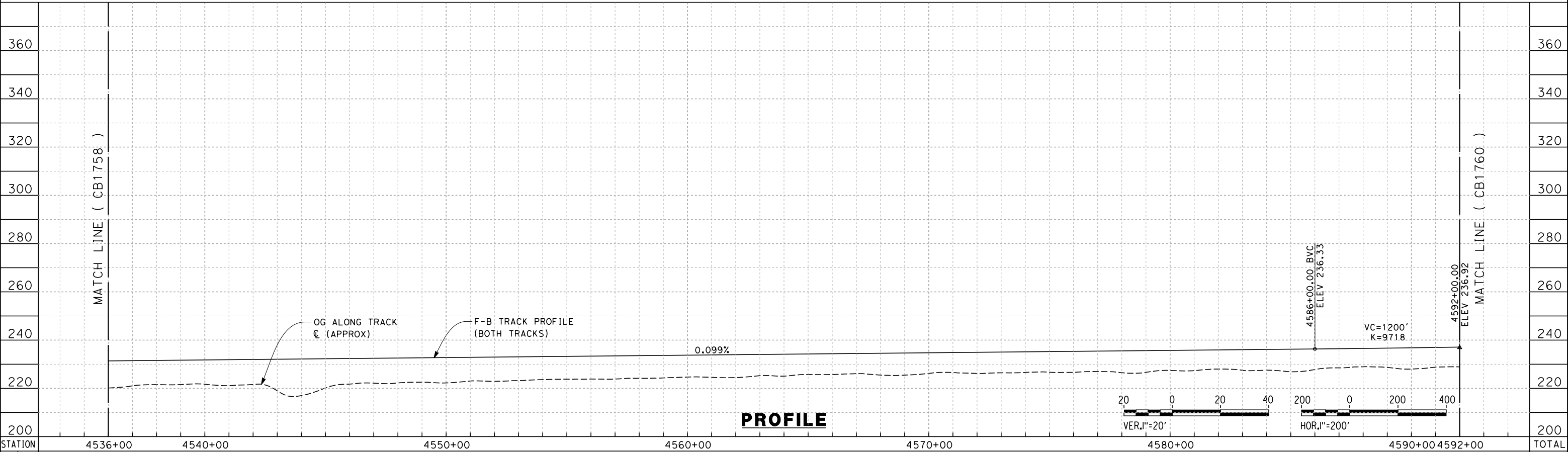


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WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

**PLAN**



**PROFILE**

STATION	4536+00	4540+00	4550+00	4560+00	4570+00	4580+00	4590+00	4592+00	TOTAL
Exc									
Emb									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

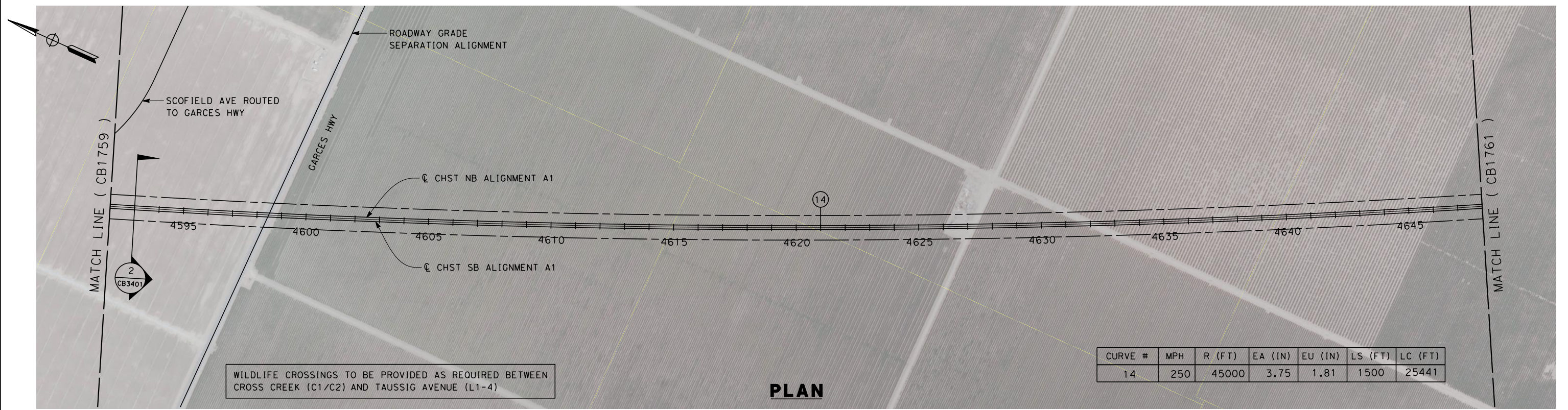


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 4536+00 TO 4592+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1759  
SCALE  
AS SHOWN  
SHEET NO.  
13 OF 21

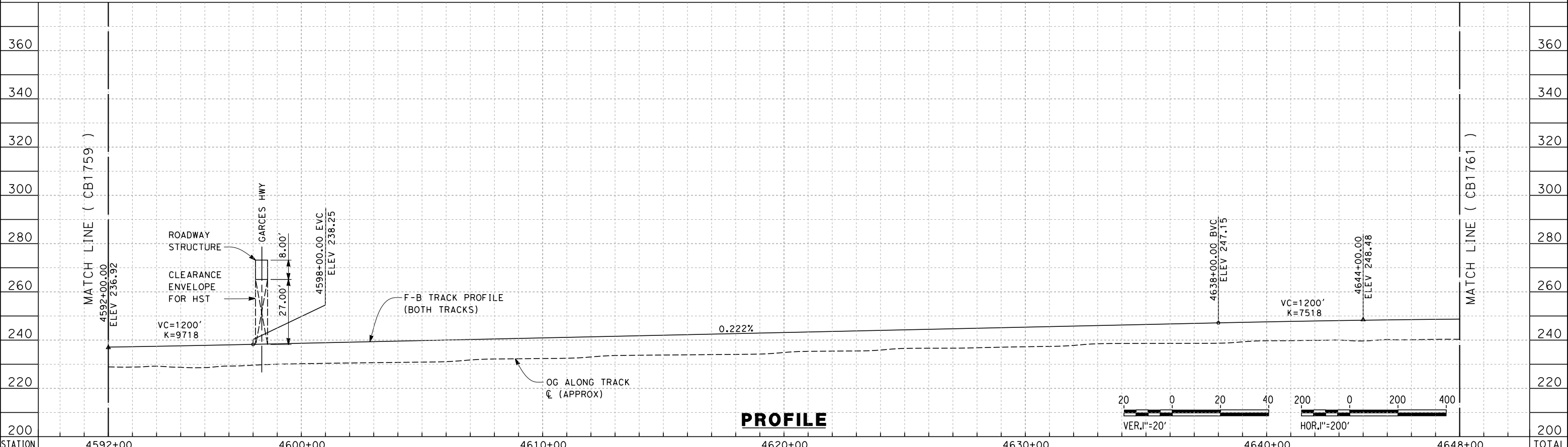


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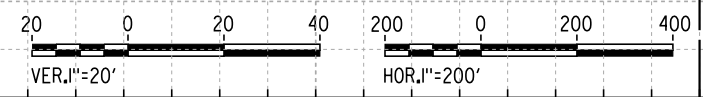


WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

**PLAN**



**PROFILE**

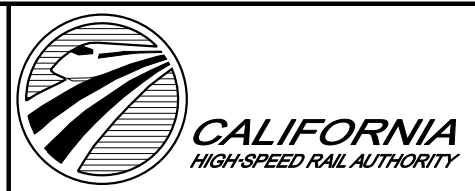


STATION	4592+00	4600+00	4610+00	4620+00	4630+00	4640+00	4648+00	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

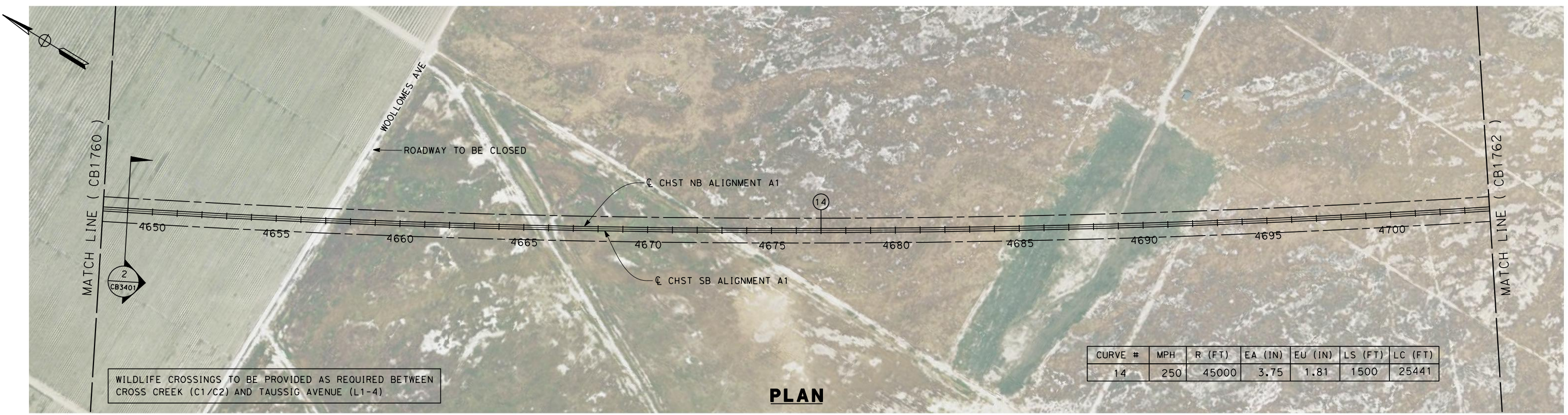


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 4592+00 TO 4648+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1760  
SCALE  
AS SHOWN  
SHEET NO.  
14 OF 21

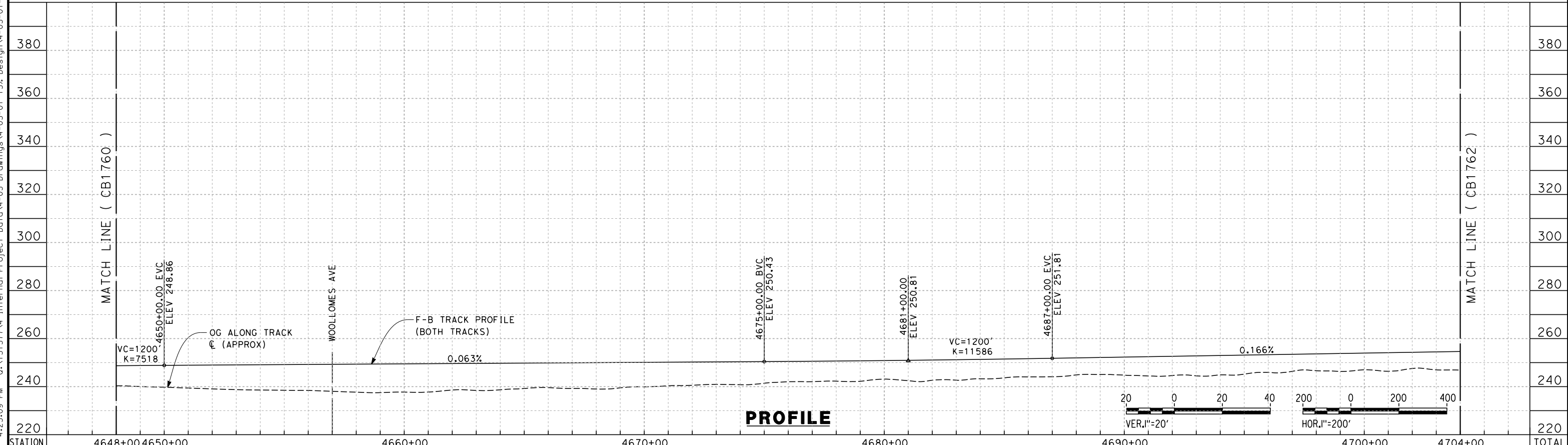


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WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

**PLAN**



**PROFILE**

STATION	4648+00	4650+00	4660+00	4670+00	4680+00	4690+00	4700+00	4704+00	TOTAL
Exc									
Emb									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 4648+00 TO 4704+00  
PLAN AND PROFILE

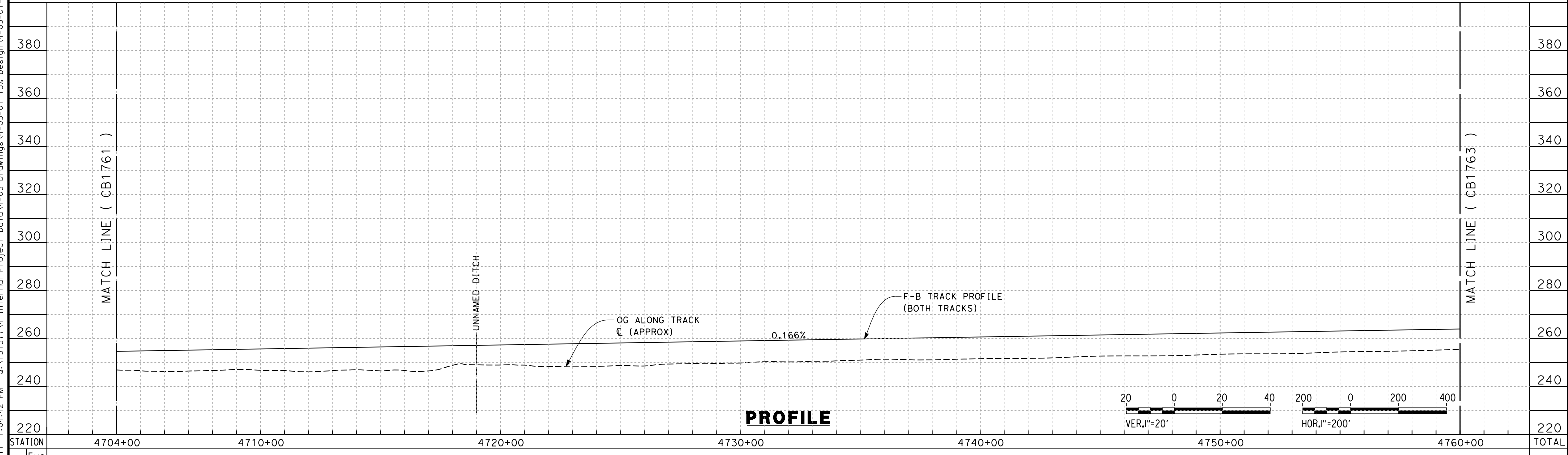
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1761  
SCALE  
AS SHOWN  
SHEET NO.  
15 OF 21



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**PLAN**



**PROFILE**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

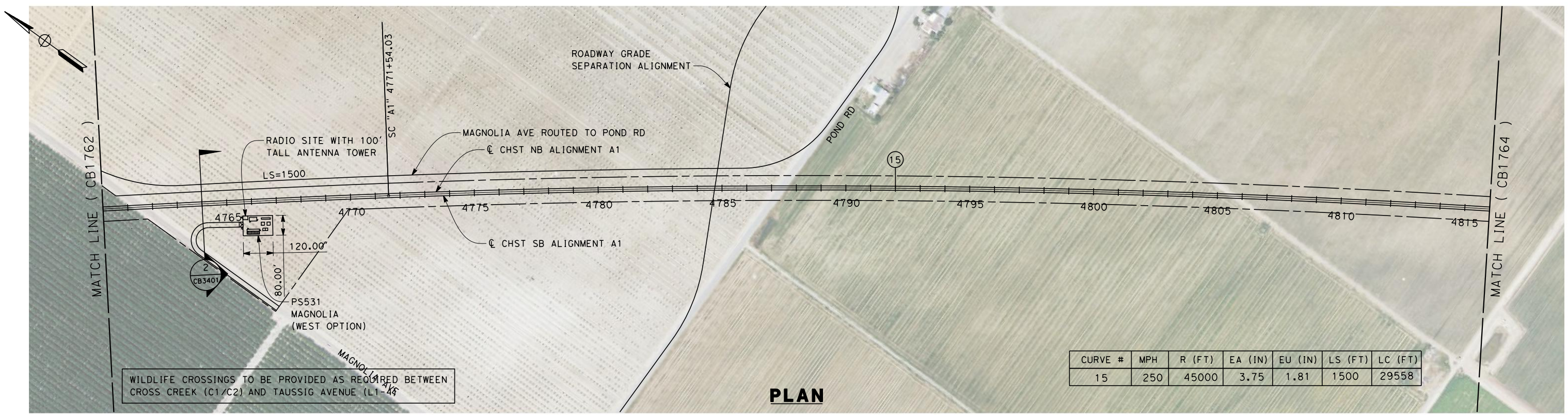


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 4704+00 TO 4760+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1762  
SCALE  
AS SHOWN  
SHEET NO.  
16 OF 21



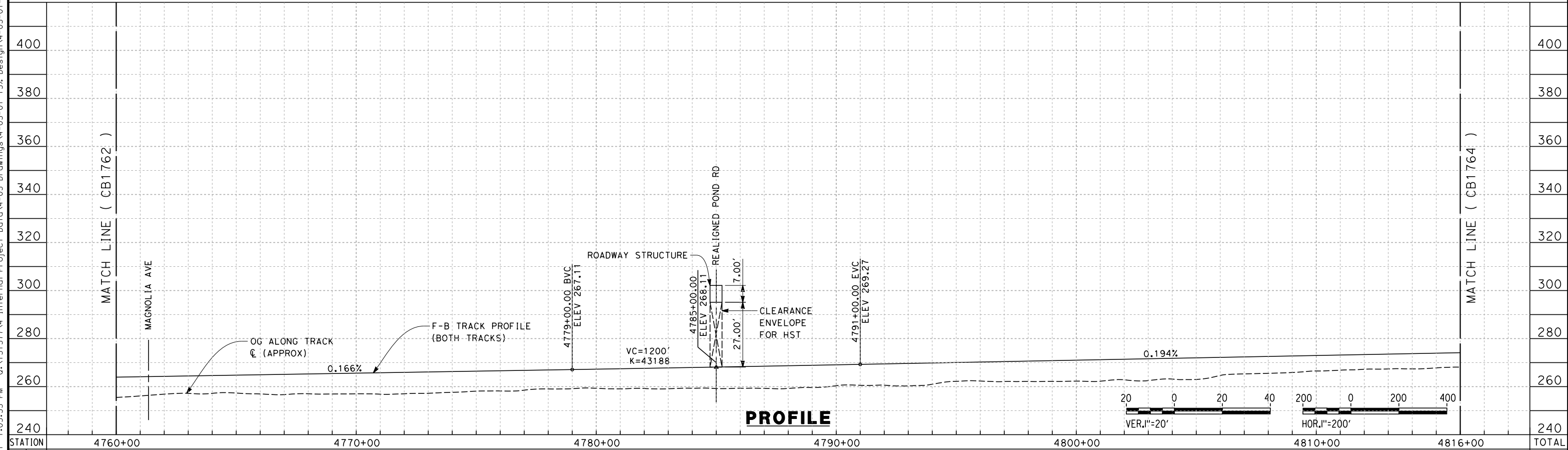
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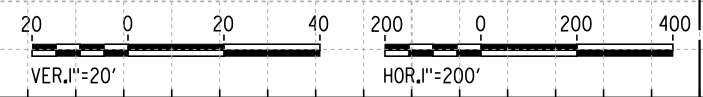
CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
15	250	45000	3.75	1.81	1500	29558

WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

**PLAN**



**PROFILE**



STATION	4760+00	4770+00	4780+00	4790+00	4800+00	4810+00	4816+00	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

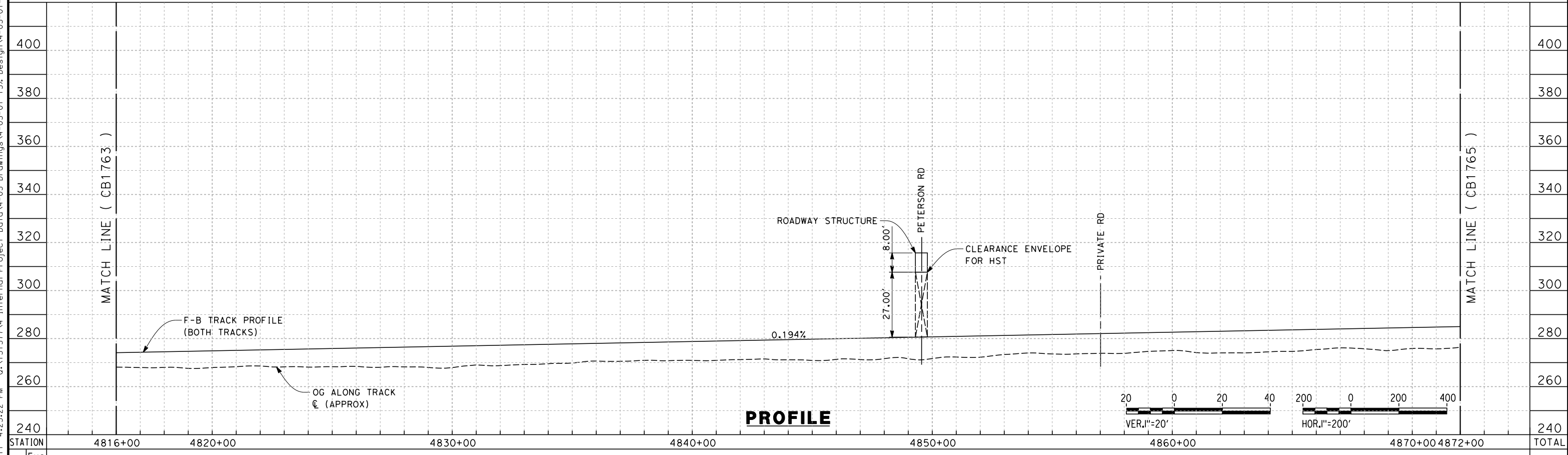
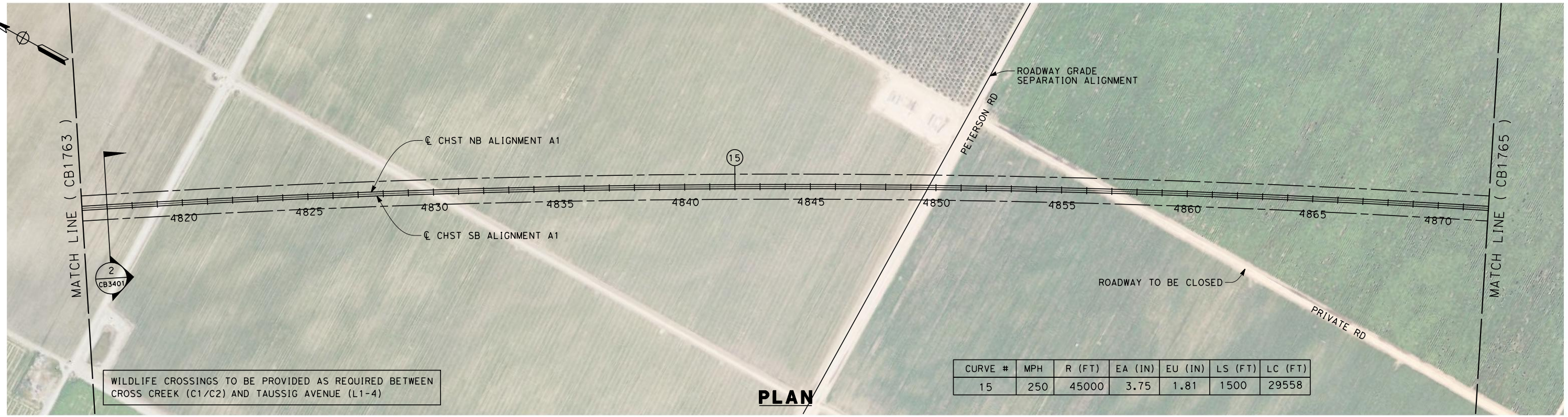


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 4760+00 TO 4816+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1763  
SCALE  
AS SHOWN  
SHEET NO.  
17 OF 21



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



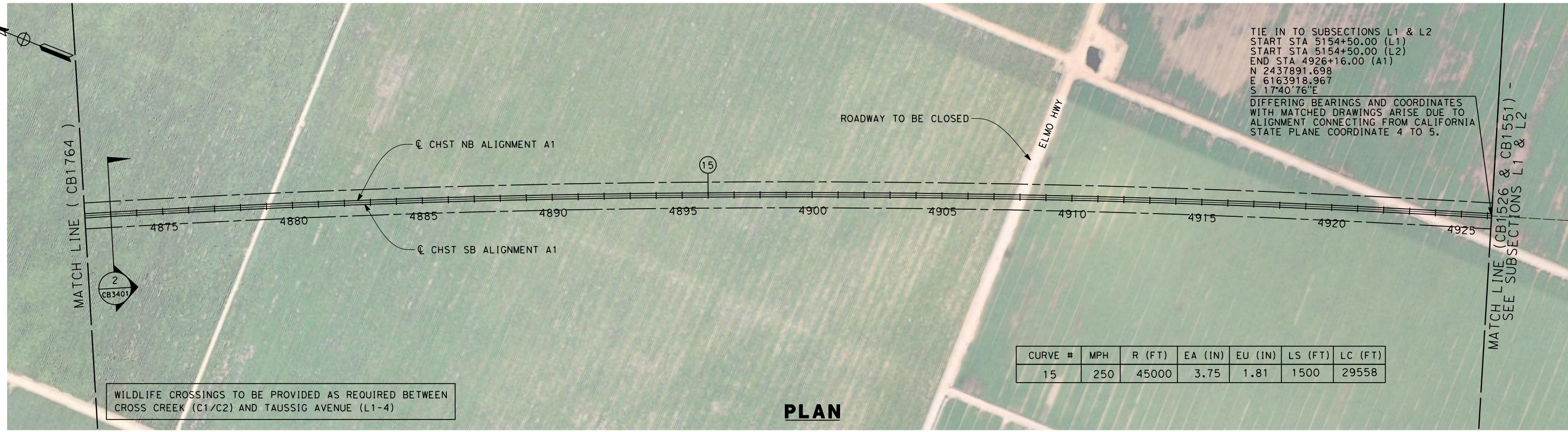
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 4816+00 TO 4872+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1764  
SCALE  
AS SHOWN  
SHEET NO.  
18 OF 21

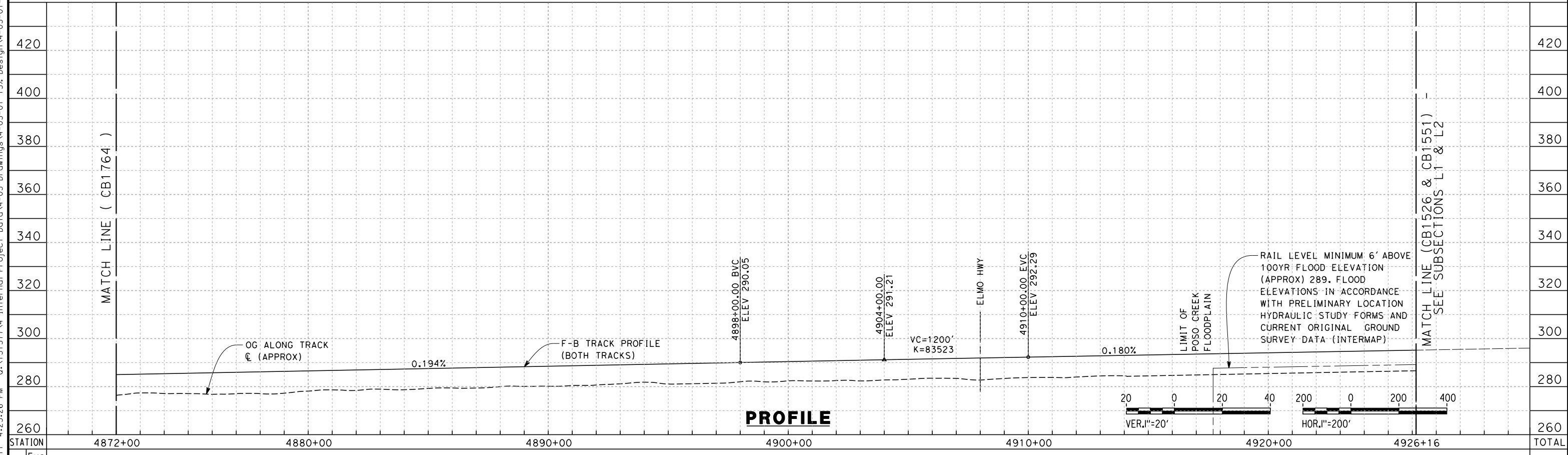


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WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

**PLAN**



**PROFILE**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

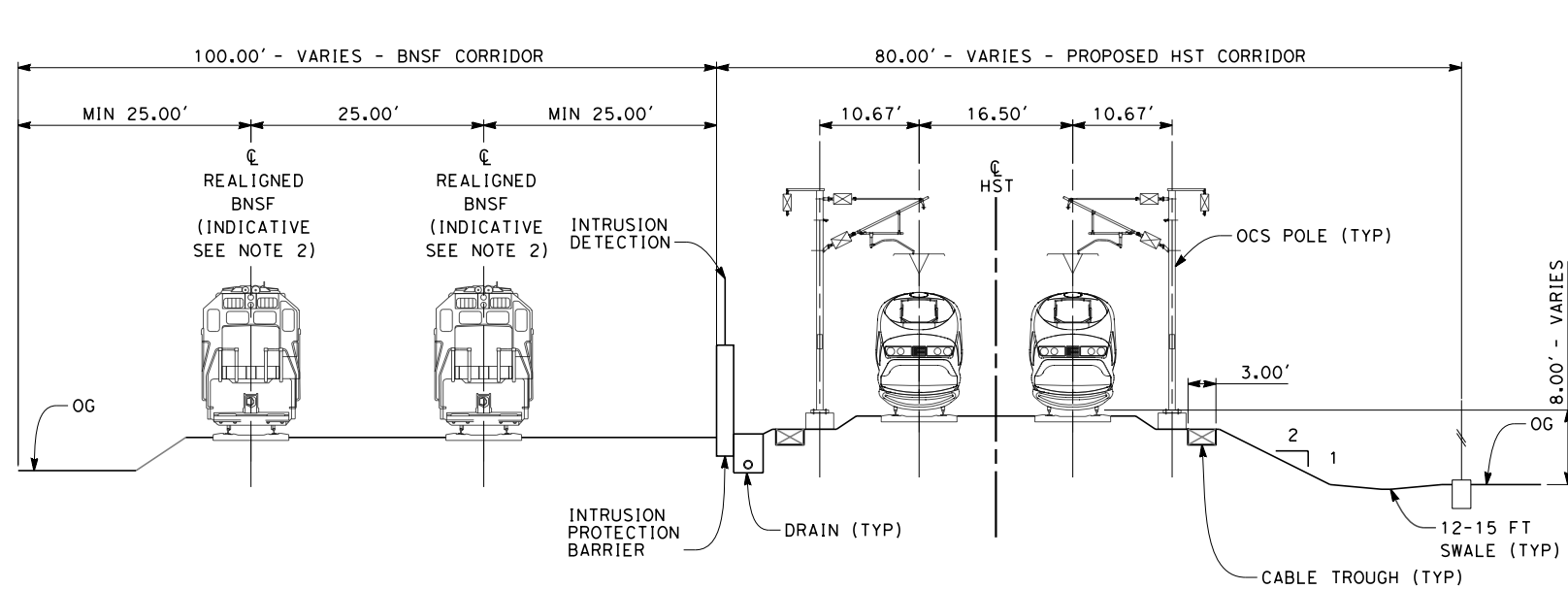
**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
ALLENSWORTH BYPASS SUBSECTION  
ALIGNMENT A1  
STA. 4872+00 TO 4926+16  
PLAN AND PROFILE

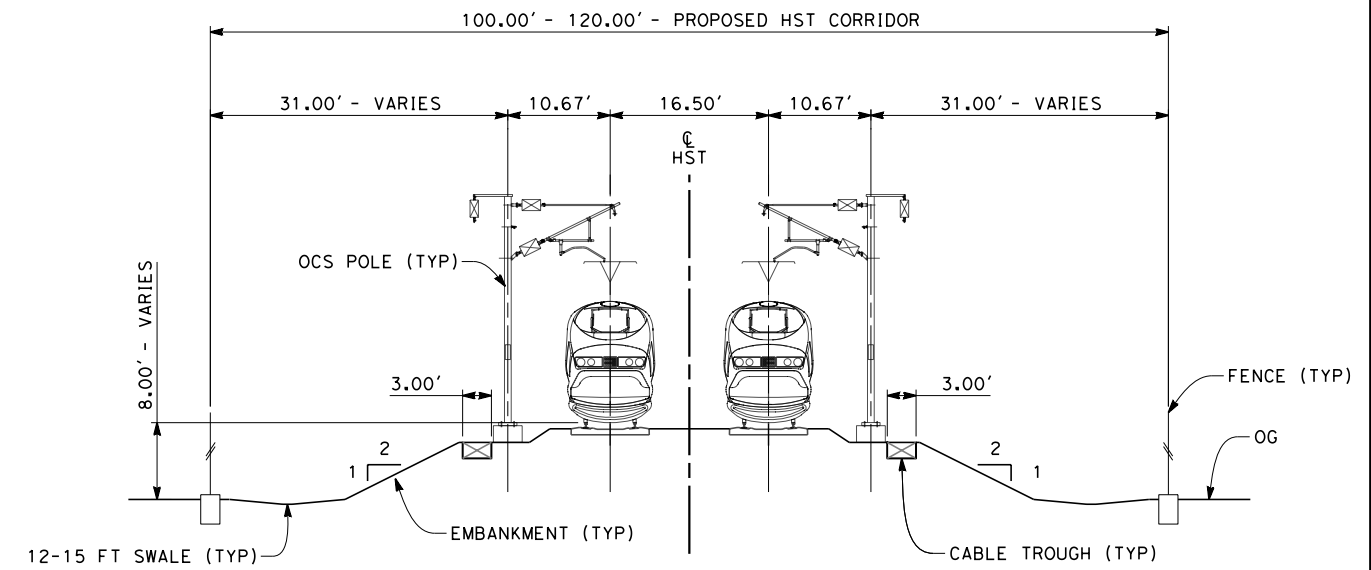
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1765  
SCALE  
AS SHOWN  
SHEET NO.  
19 OF 21

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  3. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 1**

TWIN TRACKS ADJACENT TO BNSF - EMBANKMENT  
 STA 3919+50 THROUGH STA 3983+53



**SECTION 2**

TWIN TRACKS - EMBANKMENT  
 STA 3983+53 THROUGH STA 3992+85  
 STA 4092+31 THROUGH STA 4926+16



f:\frank.palermo\7/25/2011 9:58:23 AM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\A1\FB-CB-3401-A1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
J. WALKER  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**

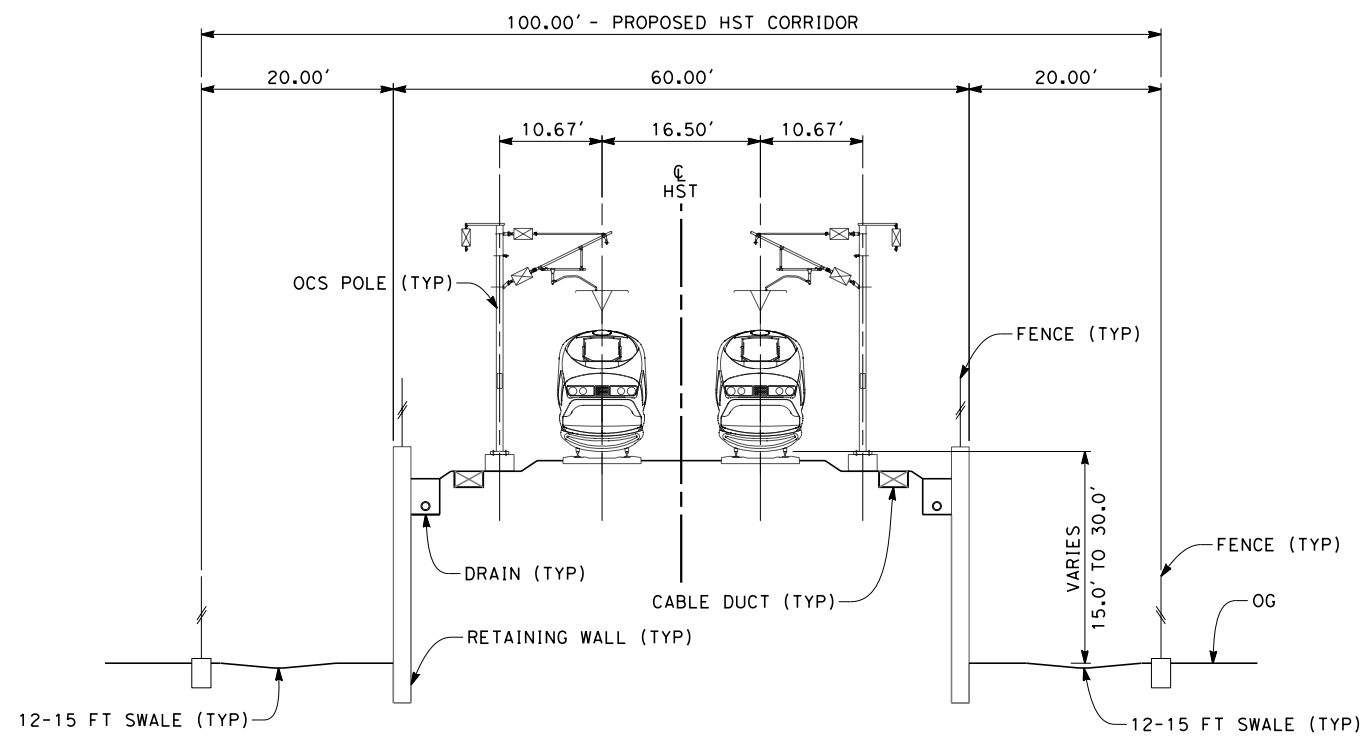


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 ALLENSWORTH BYPASS SUBSECTION  
 ALIGNMENT A1  
 CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB3401  
 SCALE  
AS SHOWN  
 SHEET NO.  
20 OF 21

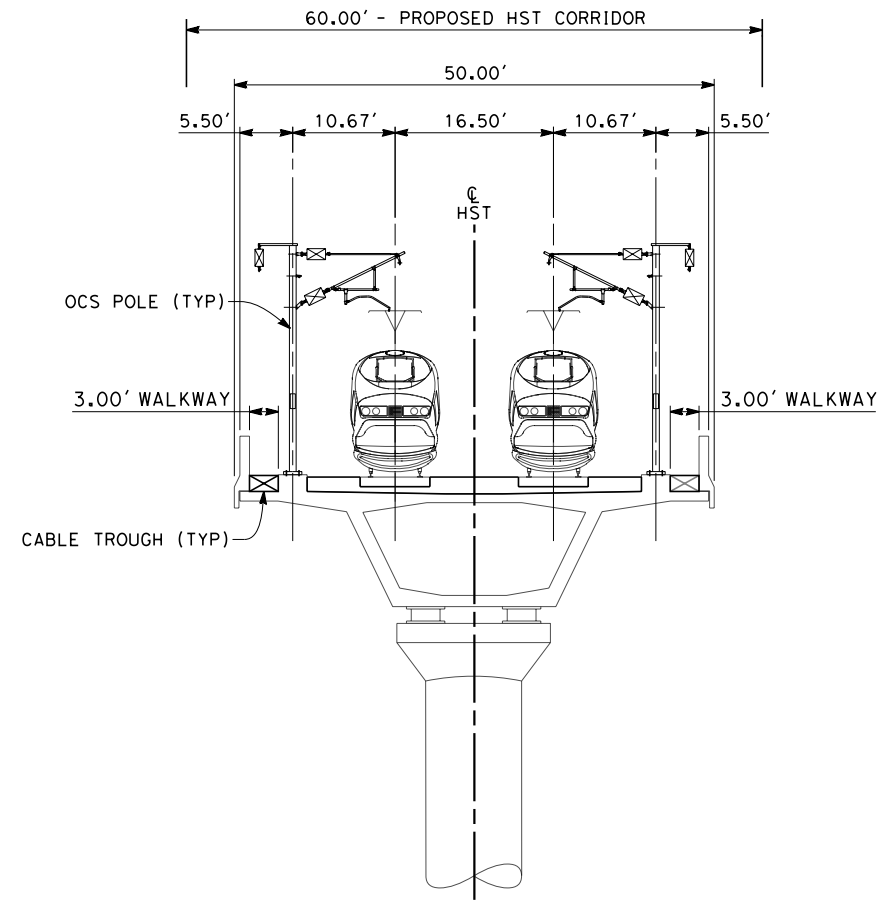


- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 3**

TWIN TRACK - RETAINED EMBANKMENT  
 STA 3992+85 THROUGH STA 4005+65  
 STA 4073+45 THROUGH STA 4092+31



**SECTION 4**

TWIN TRACK - AERIAL STRUCTURE  
 STA 4005+65 THROUGH STA 4073+45



5/12/2011 4:23:44 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\A1\FB-CB-3402-A1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
J. WALKER  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**

**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 ALLENSWORTH BYPASS SUBSECTION  
 ALIGNMENT A1  
 CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB3402  
 SCALE  
AS SHOWN  
 SHEET NO.  
21 OF 21



5/10/2011 10:46:13 AM O:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\A2\FB-CB-1420-A2.dgn



**LEGEND**

— EXISTING FREIGHT RAILROAD

— PROPOSED CHST

3000 0 3000 6000

1"=3000'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER

DRAWN BY  
A. DEAN

CHECKED BY  
J. LIPSCOMB

IN CHARGE  
A. LUFT

DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 3919+50 TO 4924+61  
 KEY MAP

CONTRACT NO.  
HSR 06-0003

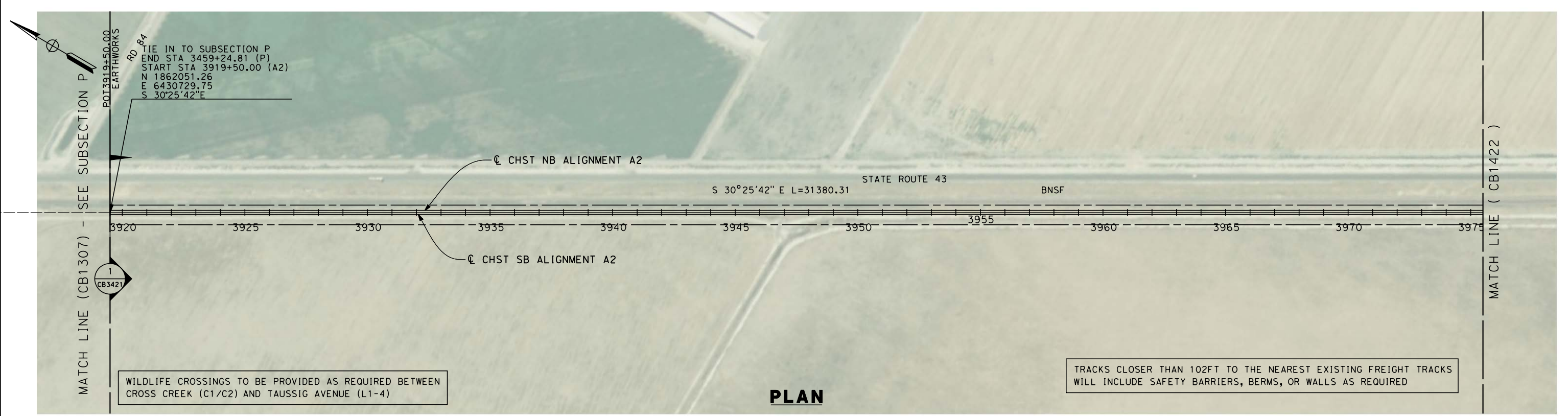
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SCALE  
AS SHOWN

SHEET NO.  
1 OF 23

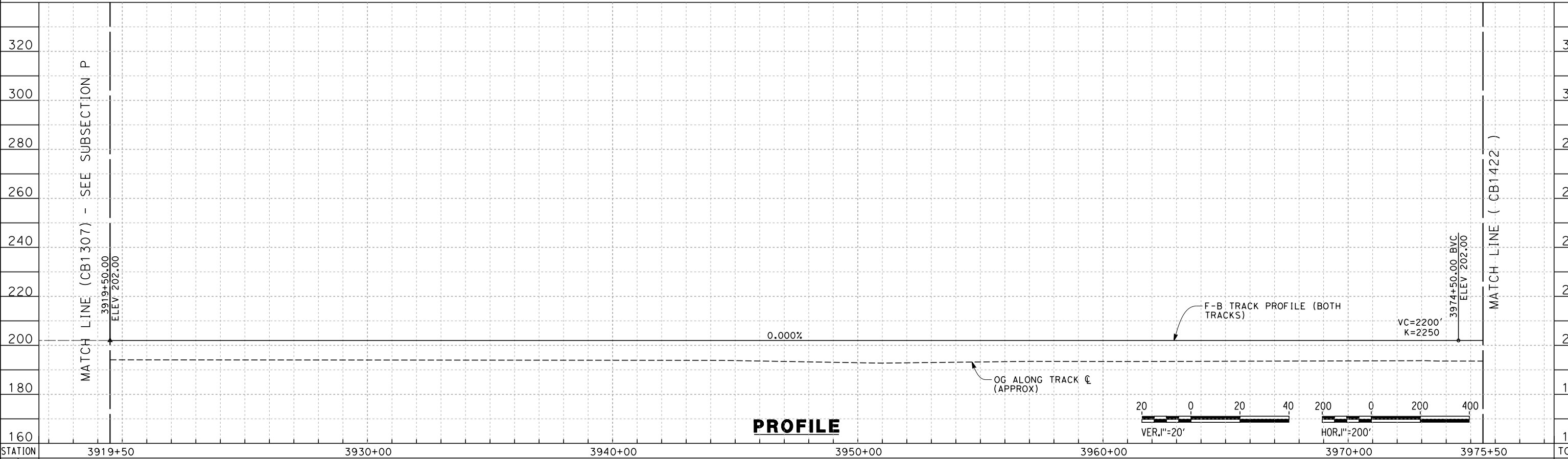


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**PLAN**

TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



**PROFILE**

STATION	3919+50	3930+00	3940+00	3950+00	3960+00	3970+00	3975+50	TOTAL
---------	---------	---------	---------	---------	---------	---------	---------	-------

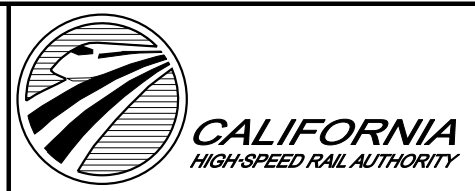
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

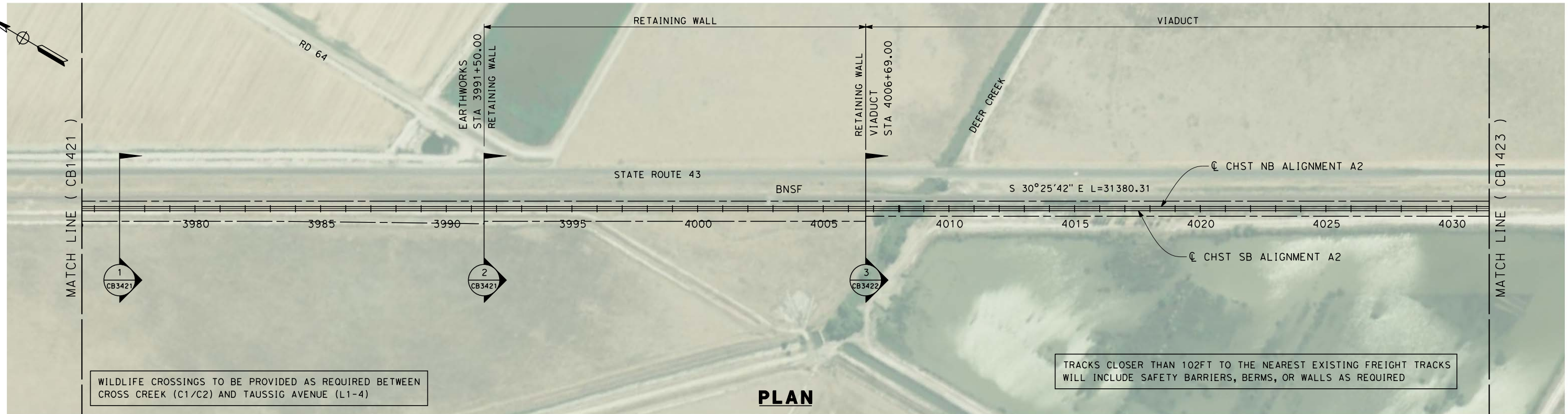


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH ALLENSWORTH SUBSECTION  
ALIGNMENT A2  
STA. 3919+50 TO 3975+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1421  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 23



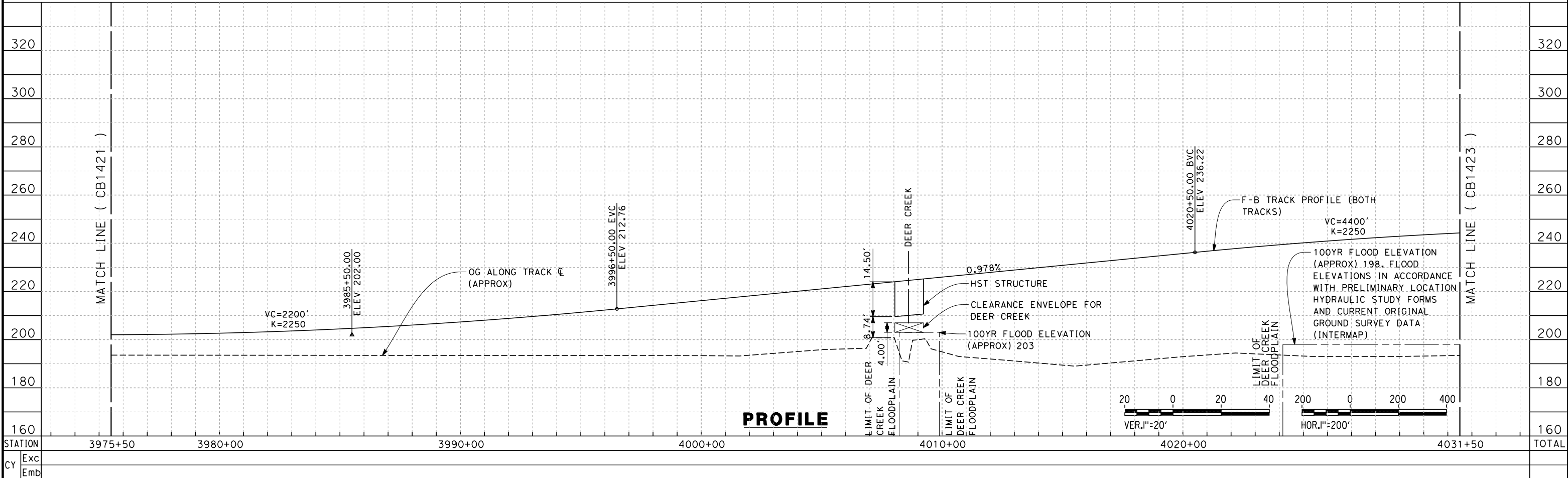
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WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

**PLAN**



**PROFILE**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

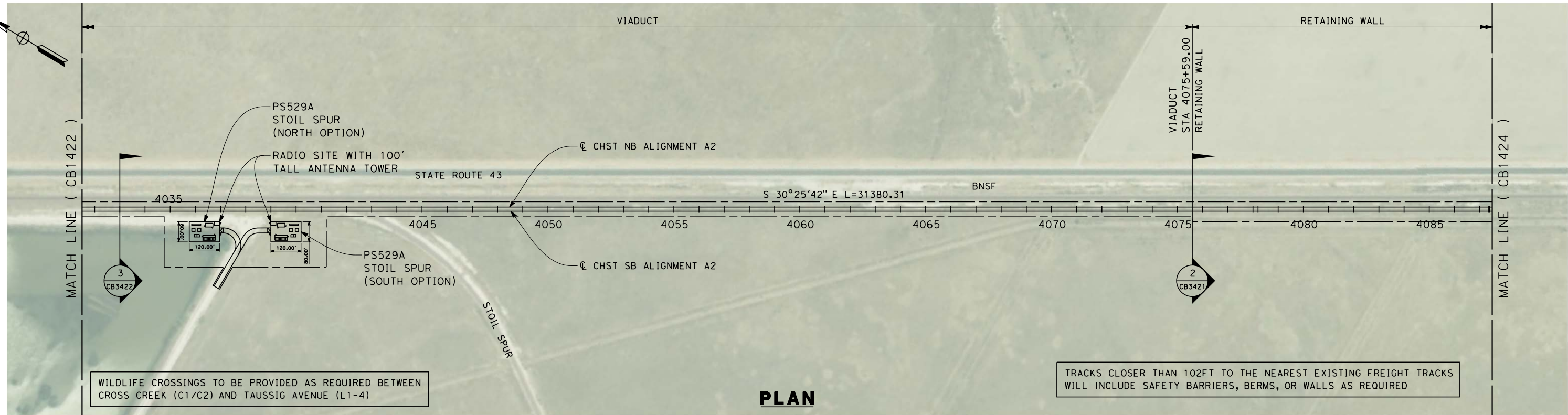
**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 3975+50 TO 4031+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1422  
 SCALE  
AS SHOWN  
 SHEET NO.  
3 OF 23

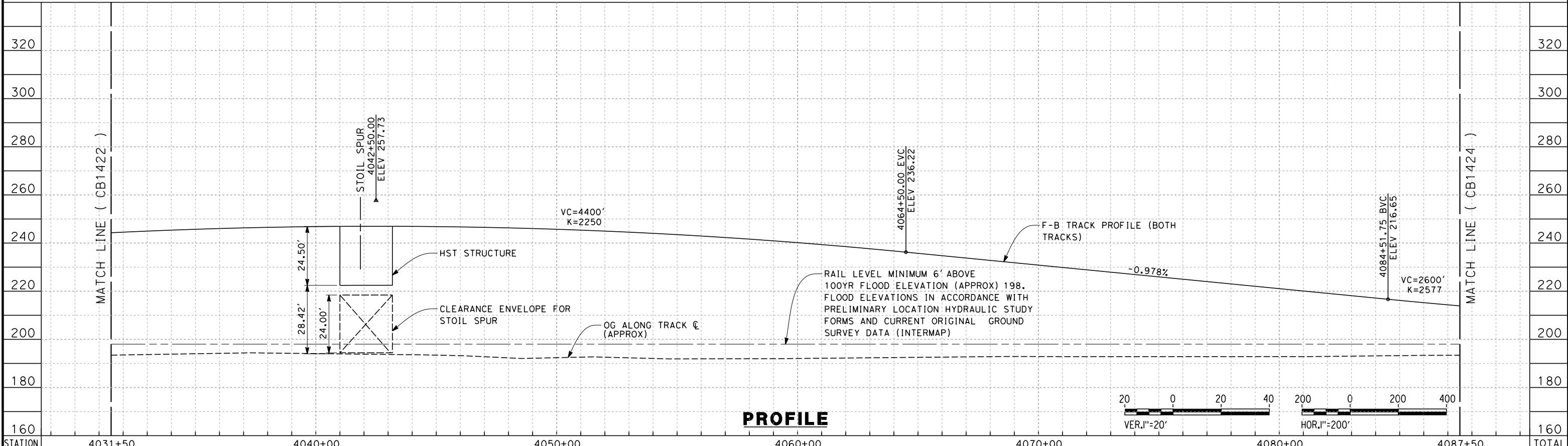
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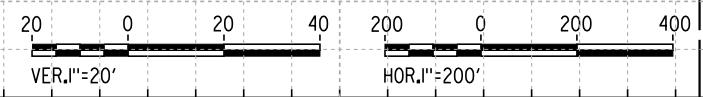
WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

**PLAN**



**PROFILE**



STATION	4031+50	4040+00	4050+00	4060+00	4070+00	4080+00	4087+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

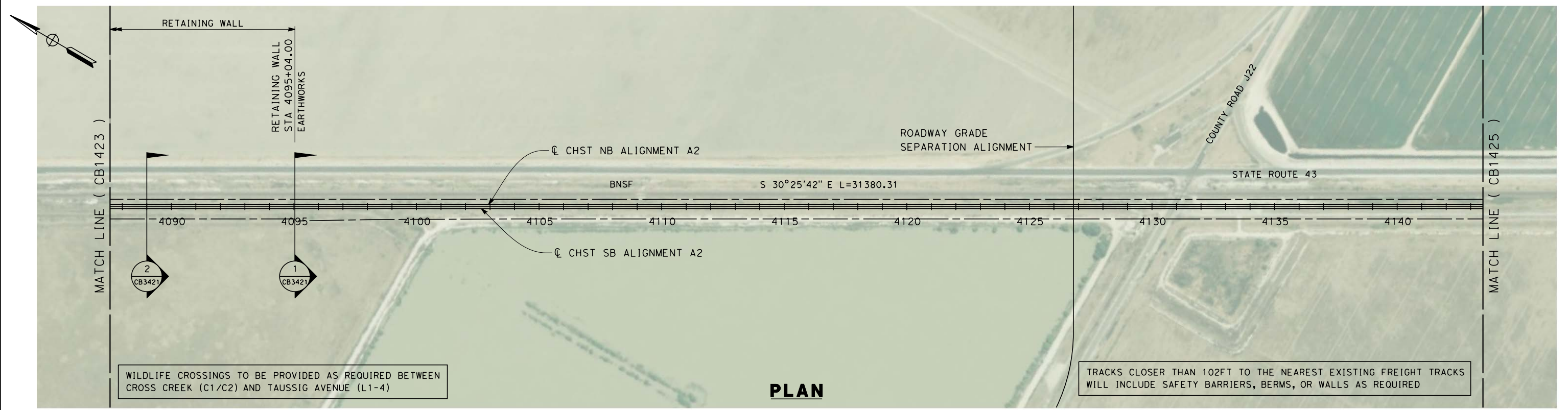


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4031+50 TO 4087+50  
 PLAN AND PROFILE

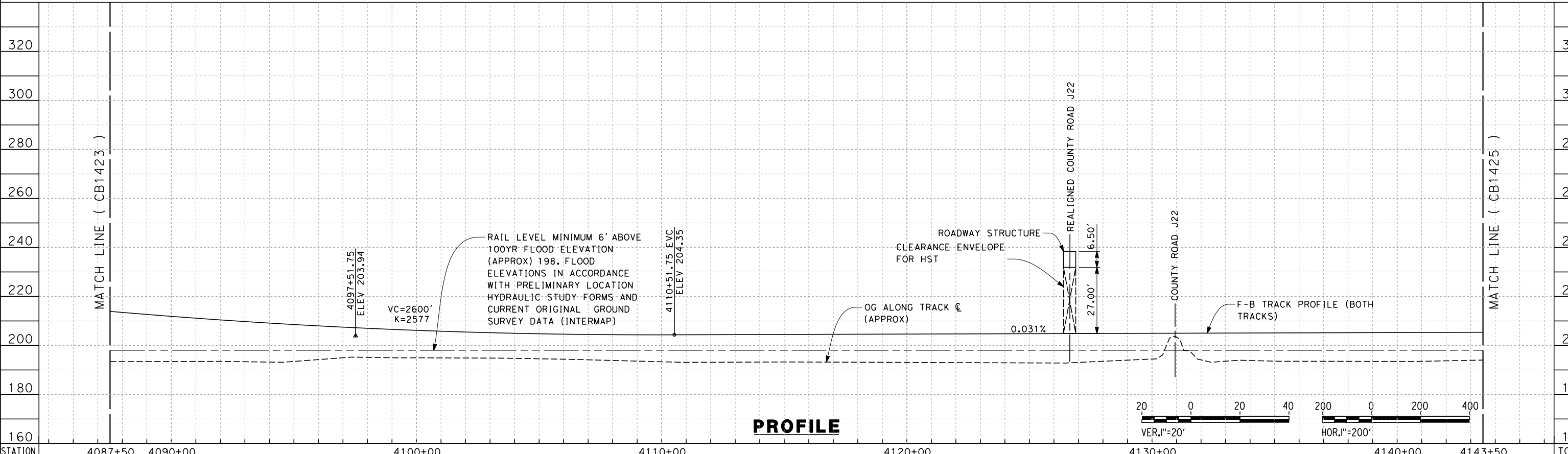
CONTRACT NO.  
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 DRAWING NO.  
CB1423  
 SCALE  
AS SHOWN  
 SHEET NO.  
4 OF 23



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**PLAN**



**PROFILE**

STATION	4087+50	4090+00	4100+00	4110+00	4120+00	4130+00	4140+00	4143+50	TOTAL
Exc									
Emb									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

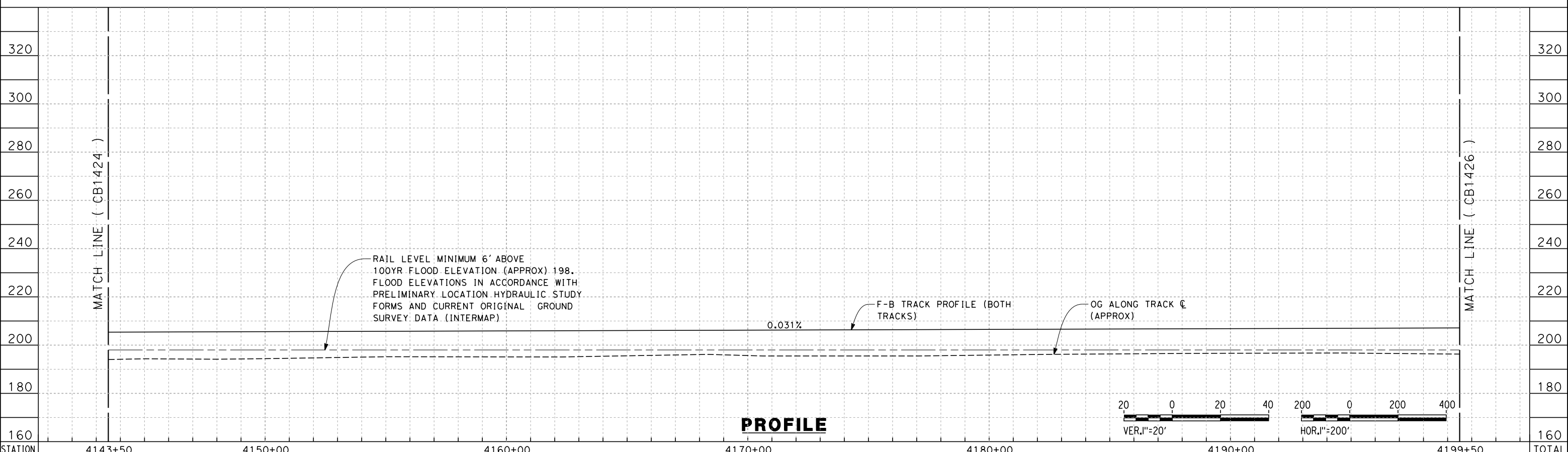
**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4087+50 TO 4143+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1424  
 SCALE  
AS SHOWN  
 SHEET NO.  
5 OF 23

7/18/2011 4:21:12 PM 0:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\A2\FB-CB-1425-A2.dgn



STATION	4143+50	4150+00	4160+00	4170+00	4180+00	4190+00	4199+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER

DRAWN BY  
A. DEAN

CHECKED BY  
J. LIPSCOMB

IN CHARGE  
A. LUFT

DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

THROUGH ALLENSWORTH SUBSECTION  
ALIGNMENT A2  
STA. 4143+50 TO 4199+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003

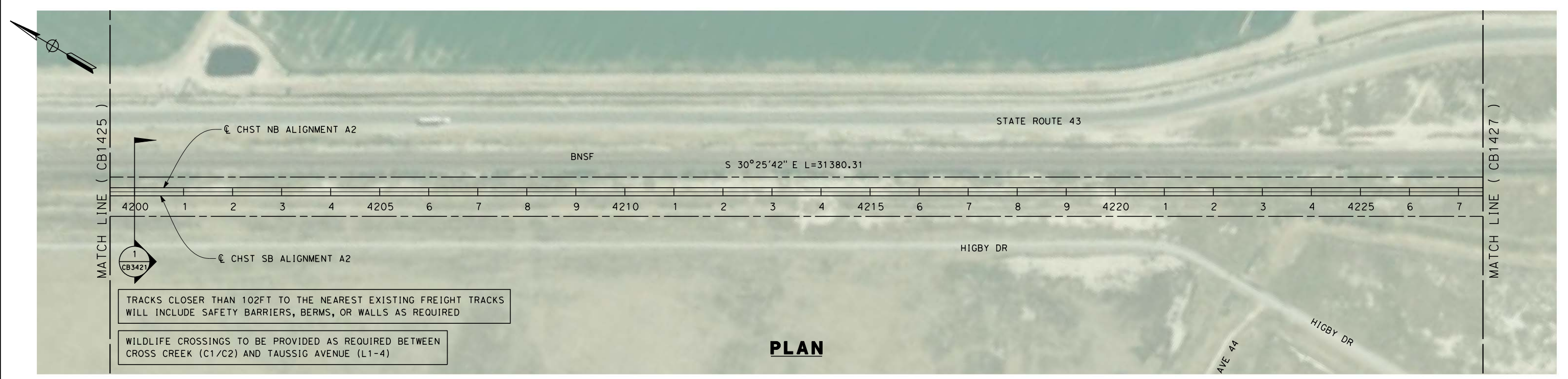
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SCALE  
AS SHOWN

SHEET NO.  
6 OF 23

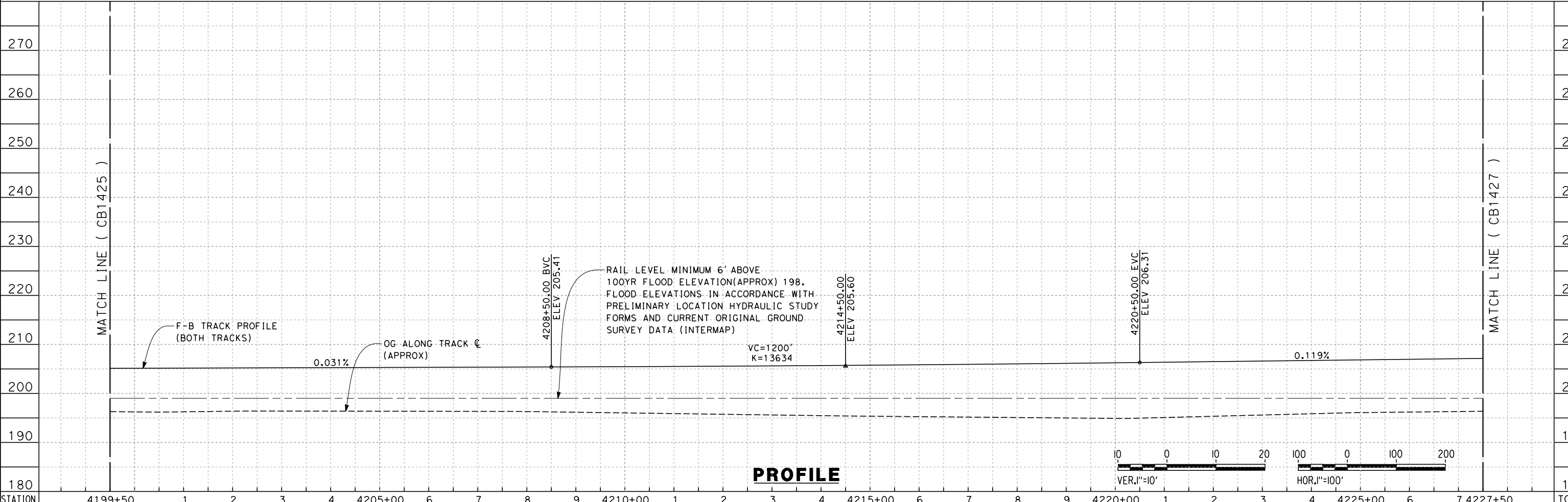


frank.palermo 7/18/2011 4:21:16 PM 0:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\A2\FB-CB-1426-A2.dgn



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)



STATION	4199+50	1	2	3	4	4205+00	6	7	8	9	4210+00	1	2	3	4	4215+00	6	7	8	9	4220+00	1	2	3	4	4225+00	6	7	4227+50	TOTAL
CY	Exc																													
	Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

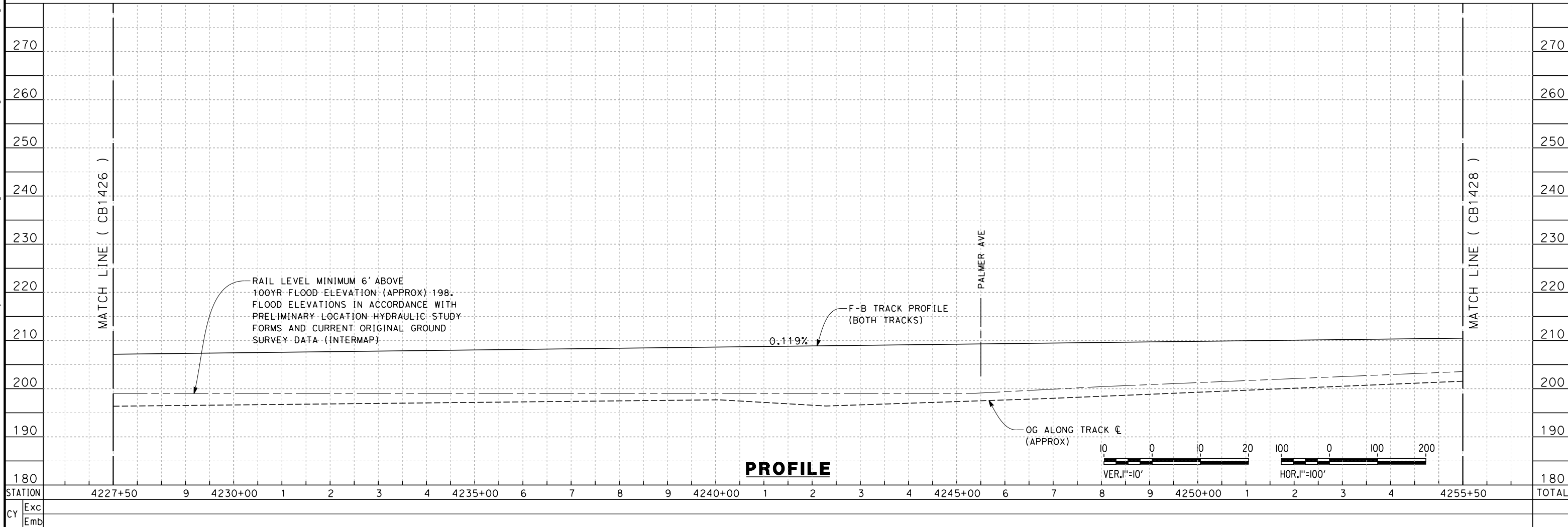
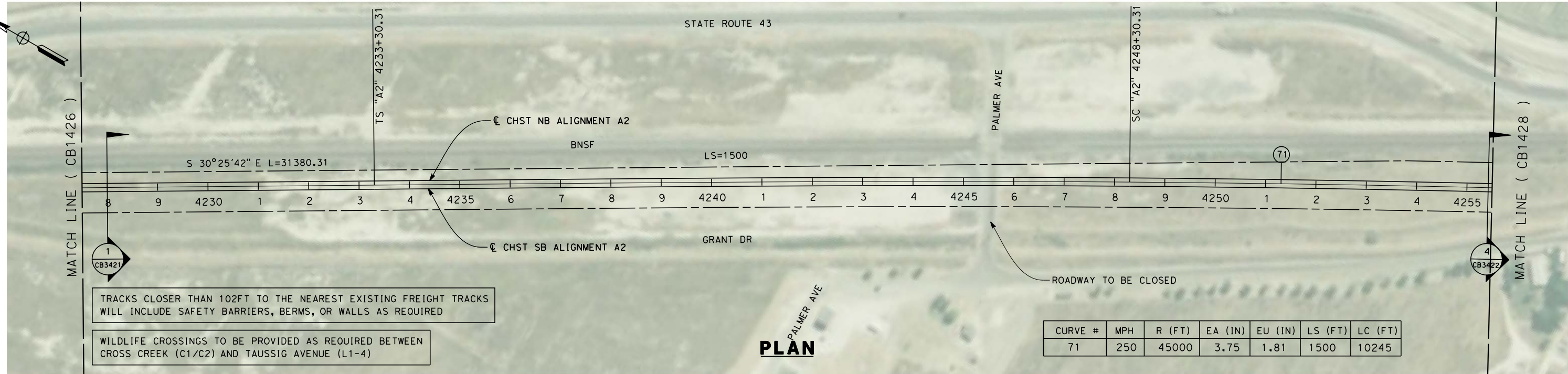
**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4199+50 TO 4227+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1426  
 SCALE  
AS SHOWN  
 SHEET NO.  
7 OF 23

frank.palermo 7/18/2011 4:21:20 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\A2\FB-CB-1427-A2.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

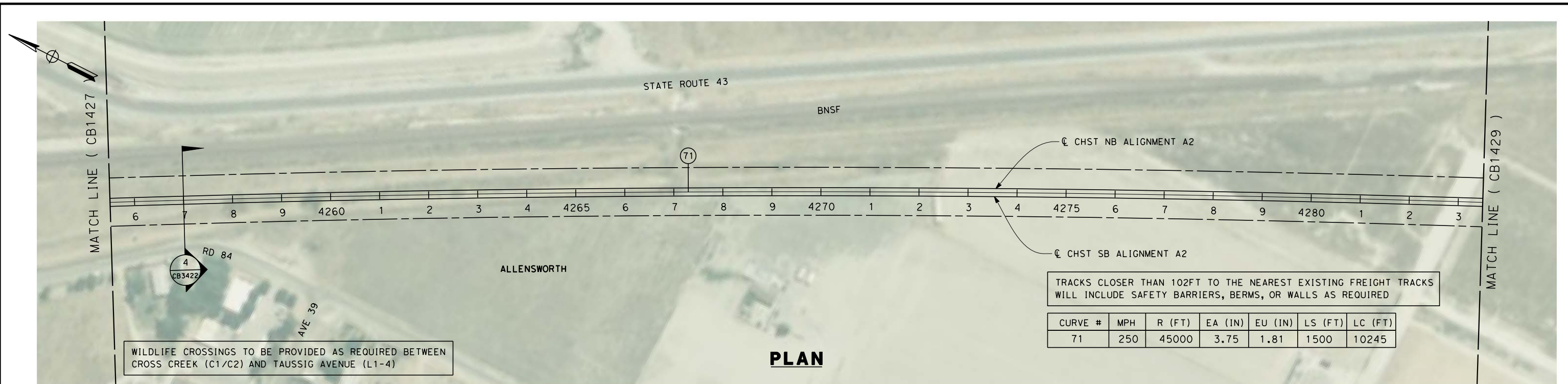


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4227+50 TO 4255+50  
 PLAN AND PROFILE

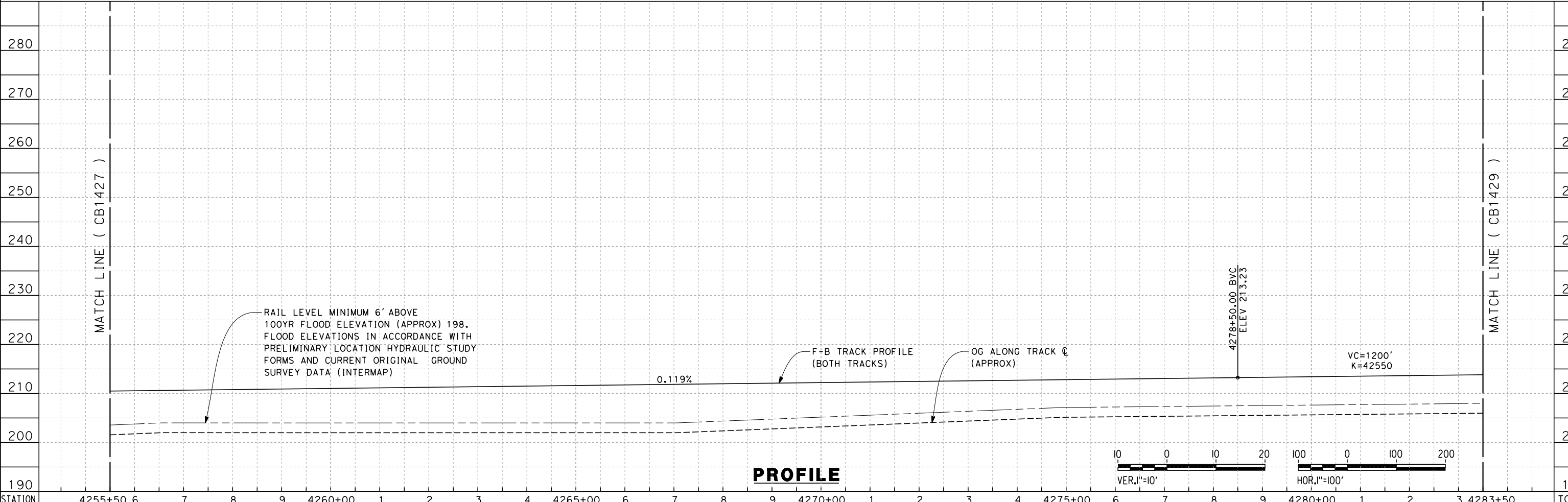
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 DRAWING NO.  
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 SCALE  
AS SHOWN  
 SHEET NO.  
8 OF 23



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**PLAN**



**PROFILE**

STATION	4255+50	6	7	8	9	4260+00	1	2	3	4	4265+00	6	7	8	9	4270+00	1	2	3	4	4275+00	6	7	8	9	4280+00	1	2	3	4283+50	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

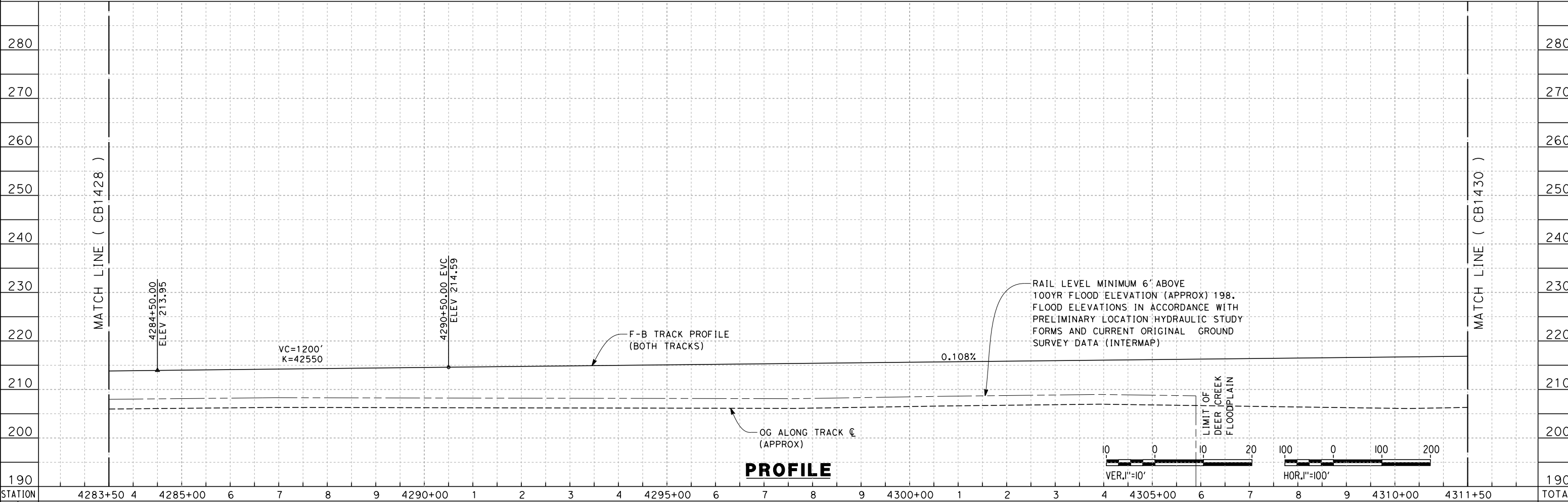
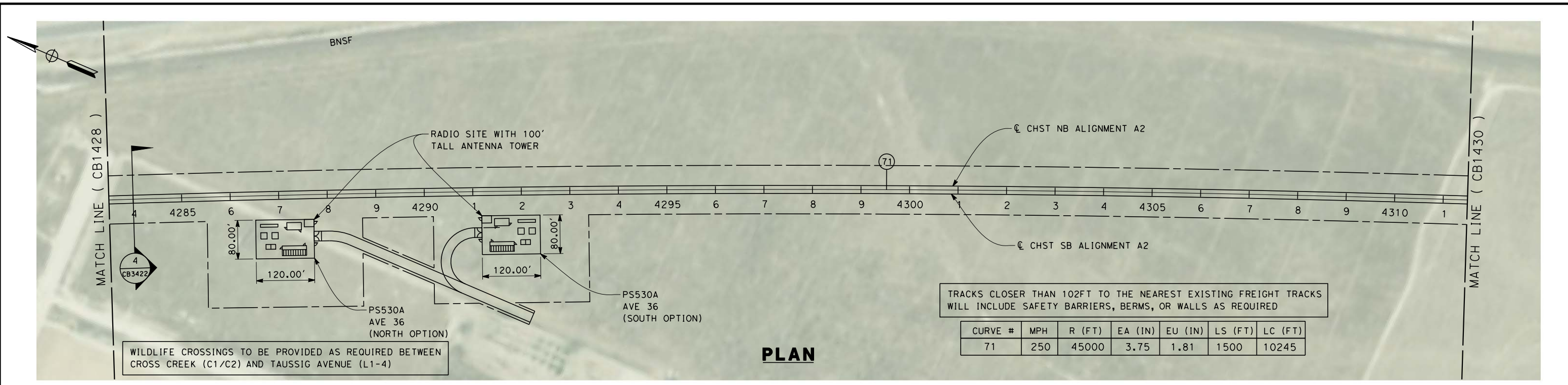
**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4255+50 TO 4283+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1428  
 SCALE  
AS SHOWN  
 SHEET NO.  
9 OF 23

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STATION	4283+50	4	4285+00	6	7	8	9	4290+00	1	2	3	4	4295+00	6	7	8	9	4300+00	1	2	3	4	4305+00	6	7	8	9	4310+00	4311+50	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
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**NOT FOR  
CONSTRUCTION**

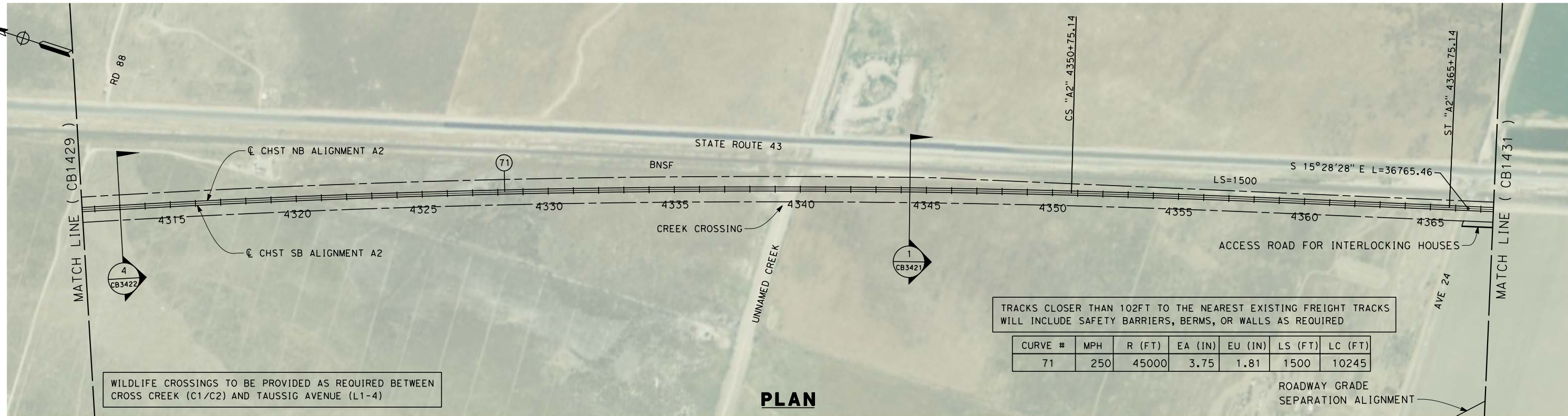


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4283+50 TO 4311+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1429  
 SCALE  
AS SHOWN  
 SHEET NO.  
10 OF 23



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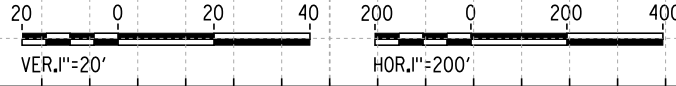
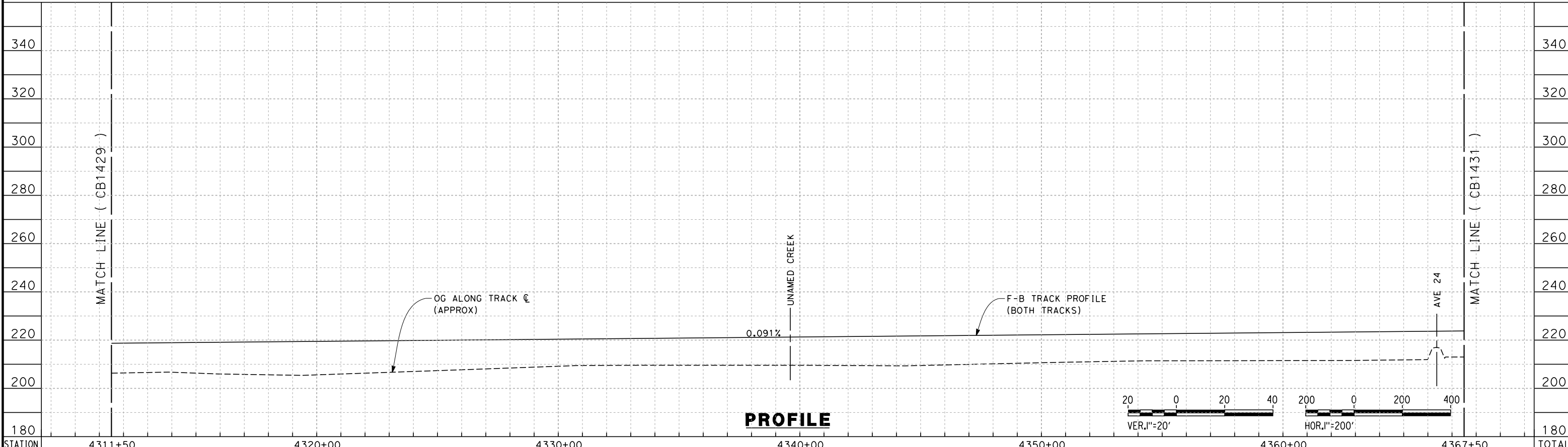


TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
71	250	45000	3.75	1.81	1500	10245

WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

**PLAN**



**PROFILE**

STATION	4311+50	4320+00	4330+00	4340+00	4350+00	4360+00	4367+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
 G. WALKER  
 DRAWN BY  
 A. DEAN  
 CHECKED BY  
 J. LIPSCOMB  
 IN CHARGE  
 A. LUFT  
 DATE  
 05/13/11

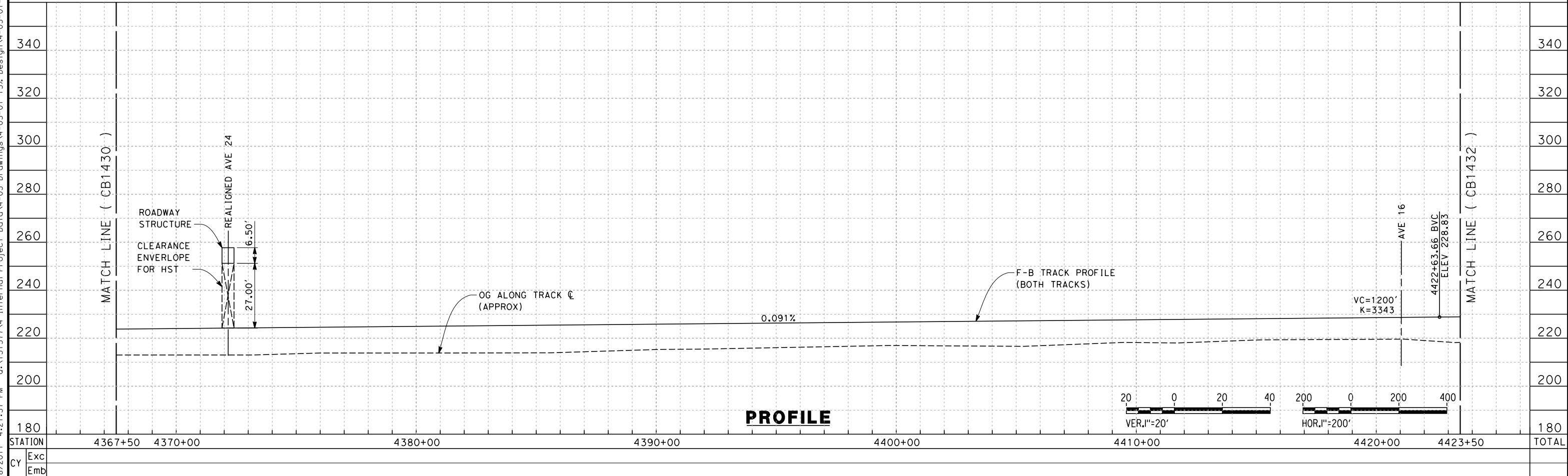
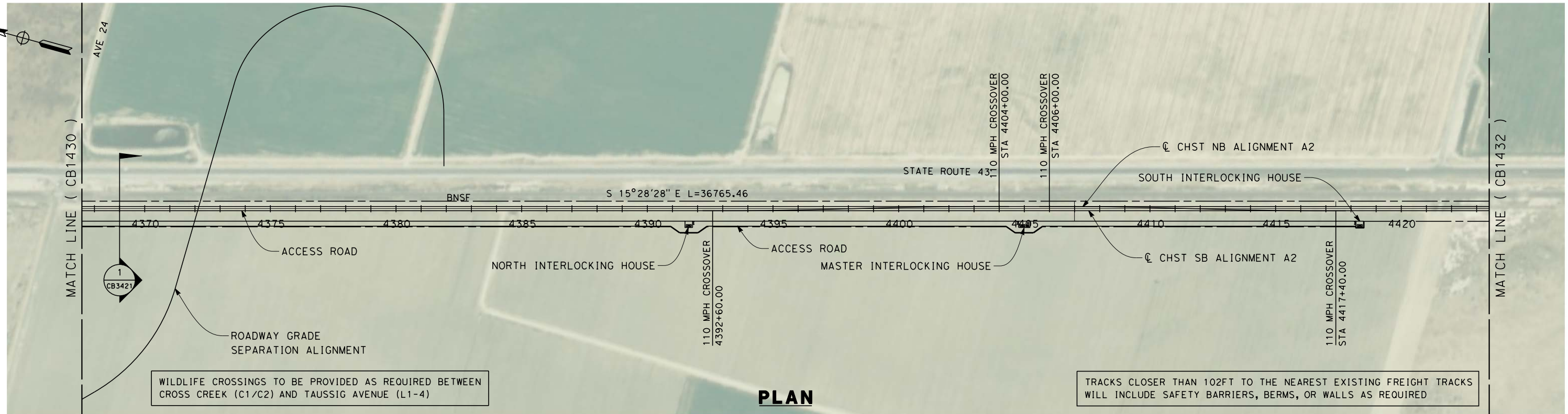
**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4311+50 TO 4367+50  
 PLAN AND PROFILE

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CB1430  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 11 OF 23

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

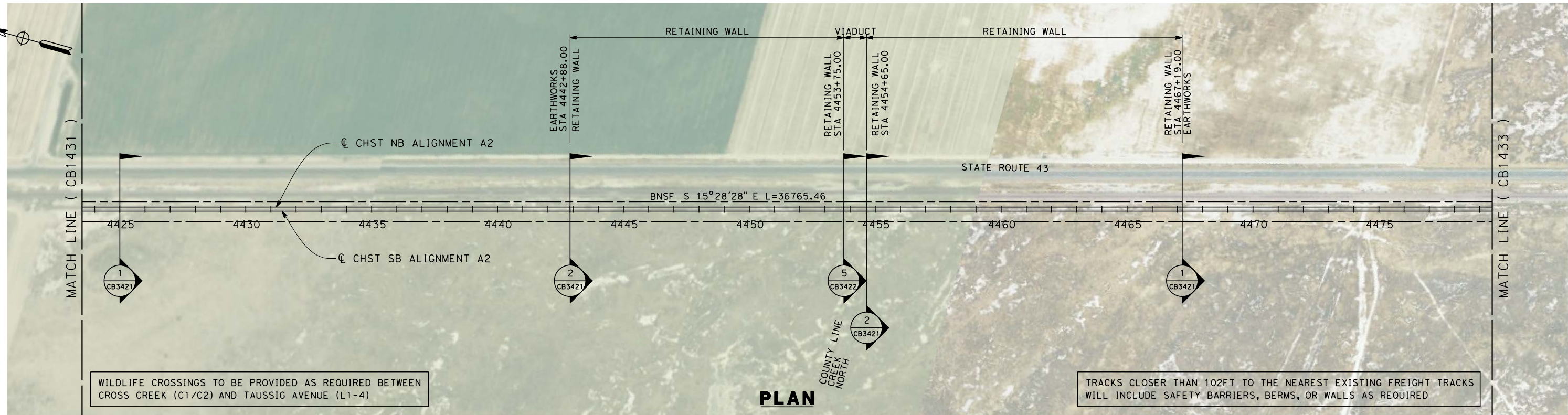


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH ALLENSWORTH SUBSECTION  
ALIGNMENT A2  
STA. 4367+50 TO 4423+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1431  
SCALE  
AS SHOWN  
SHEET NO.  
12 OF 23

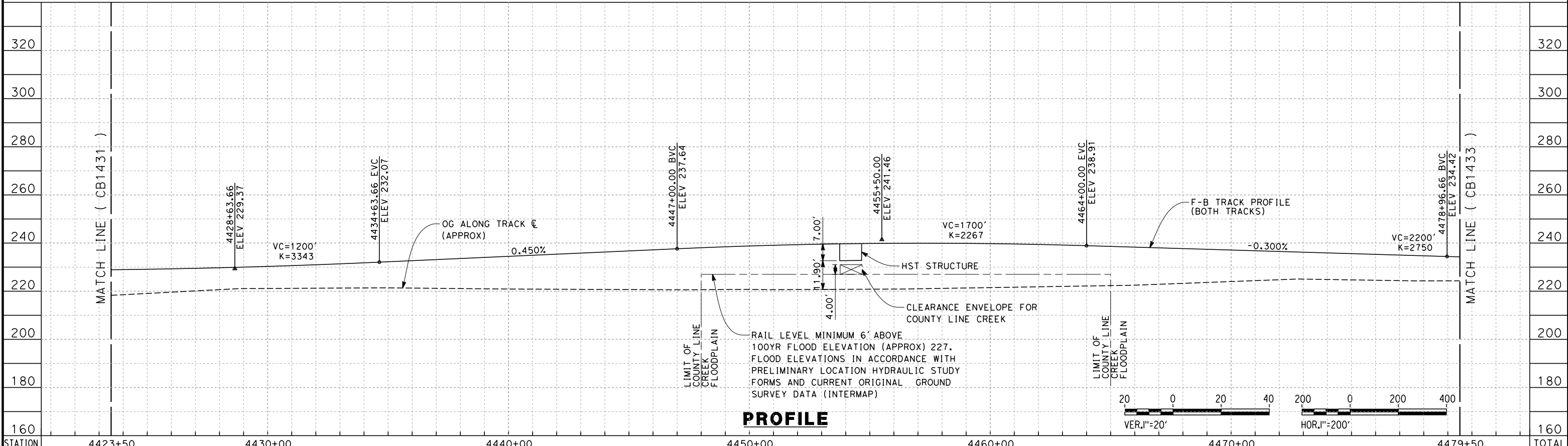


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WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



STATION	4423+50	4430+00	4440+00	4450+00	4460+00	4470+00	4479+50	TOTAL
CY	Exc							
	Emb							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

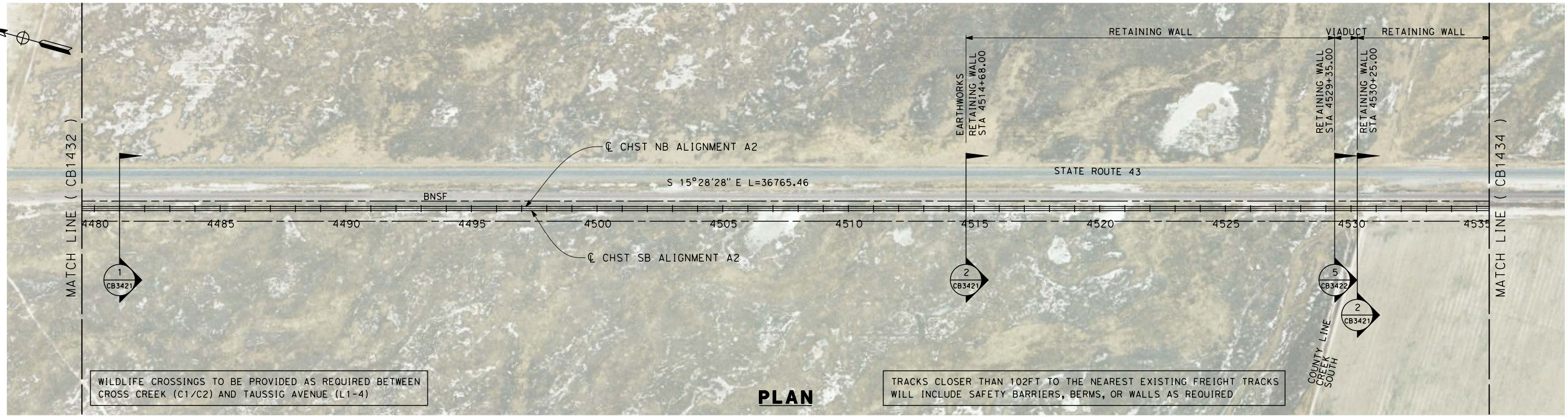


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4423+50 TO 4479+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1432  
 SCALE  
AS SHOWN  
 SHEET NO.  
13 OF 23

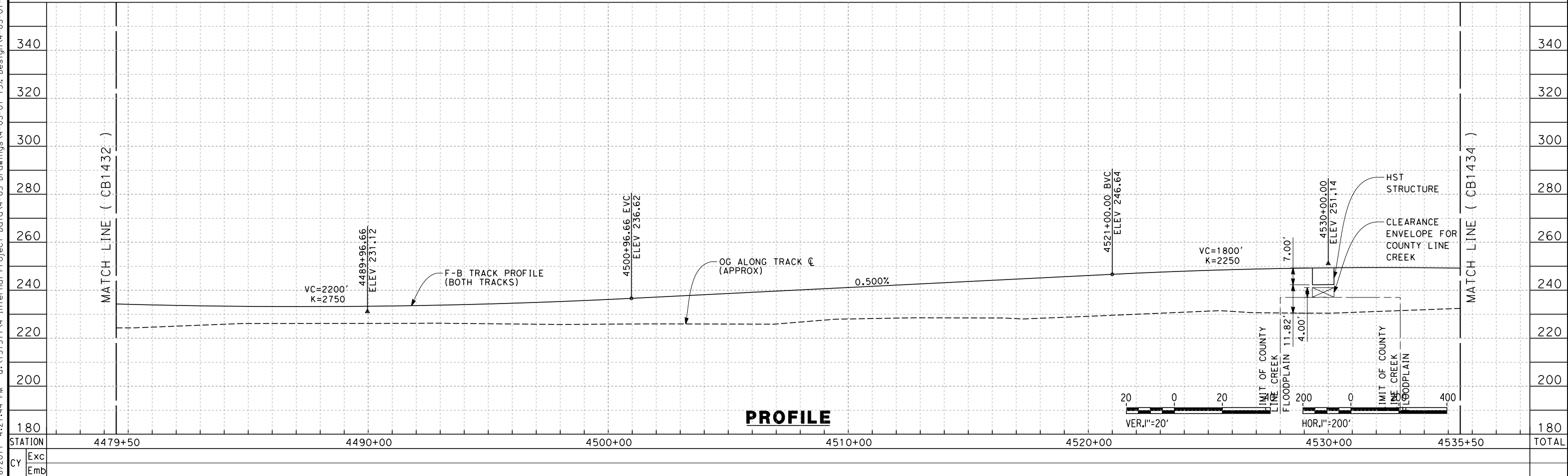


7/18/2011 4:21:44 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\A2\FB-CB-1433-A2.dgn



WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

**PLAN**



**PROFILE**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

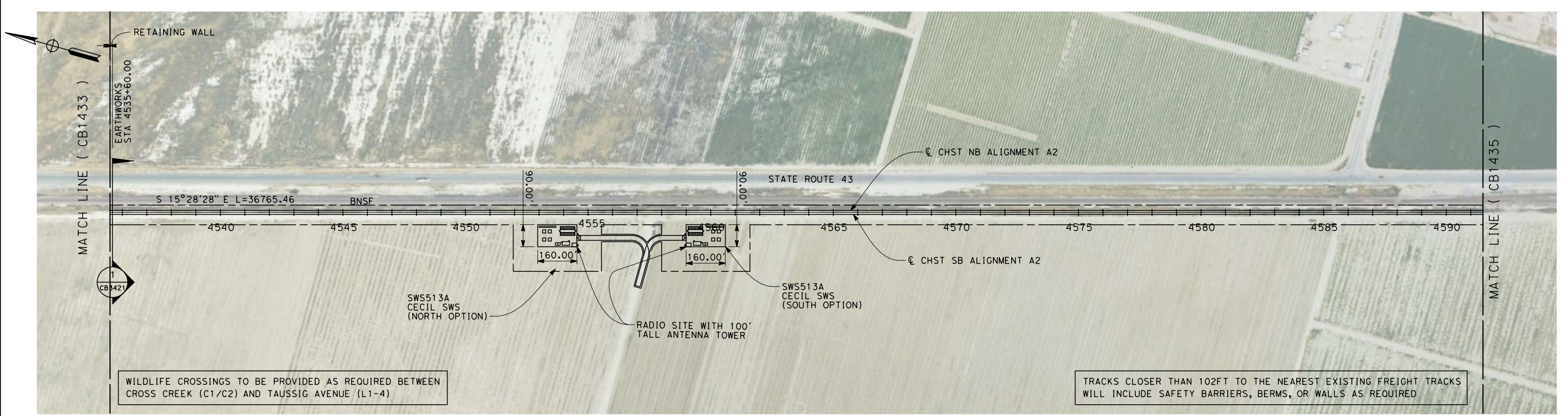


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4479+50 TO 4535+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1433  
 SCALE  
AS SHOWN  
 SHEET NO.  
14 OF 23

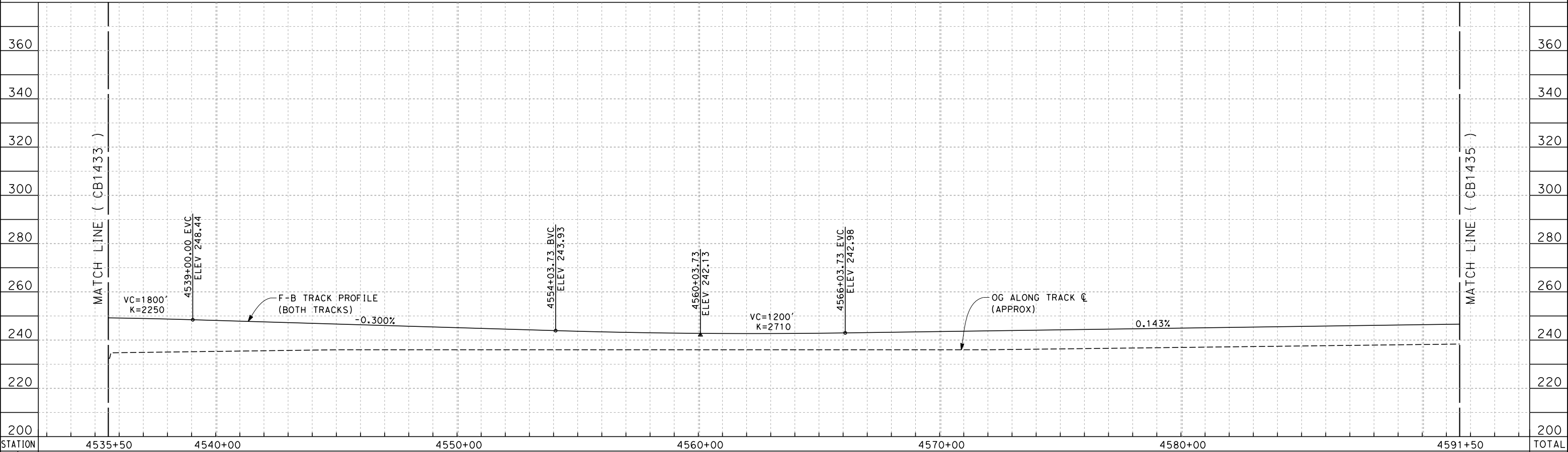


7/18/2011 4:21:48 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\A2\FB-CB-1434-A2.dgn



WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

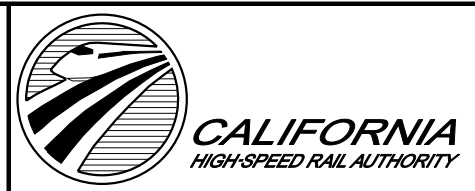
TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. WALKER**  
 DRAWN BY  
**A. DEAN**  
 CHECKED BY  
**J. LIPSCOMB**  
 IN CHARGE  
**A. LUFT**  
 DATE  
**05/13/11**

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**

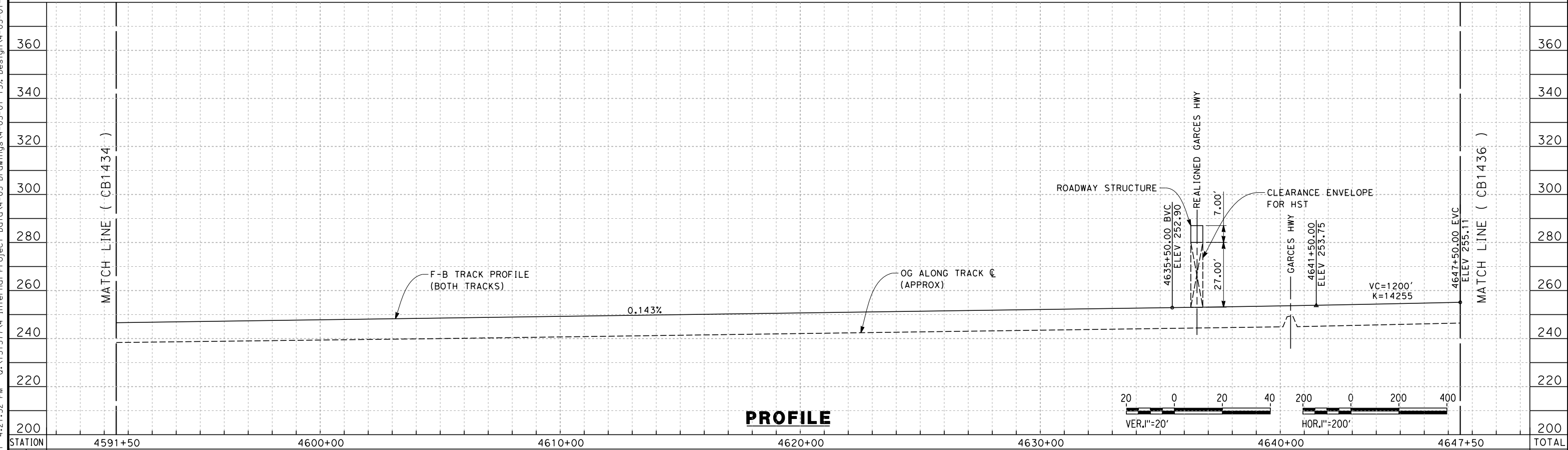
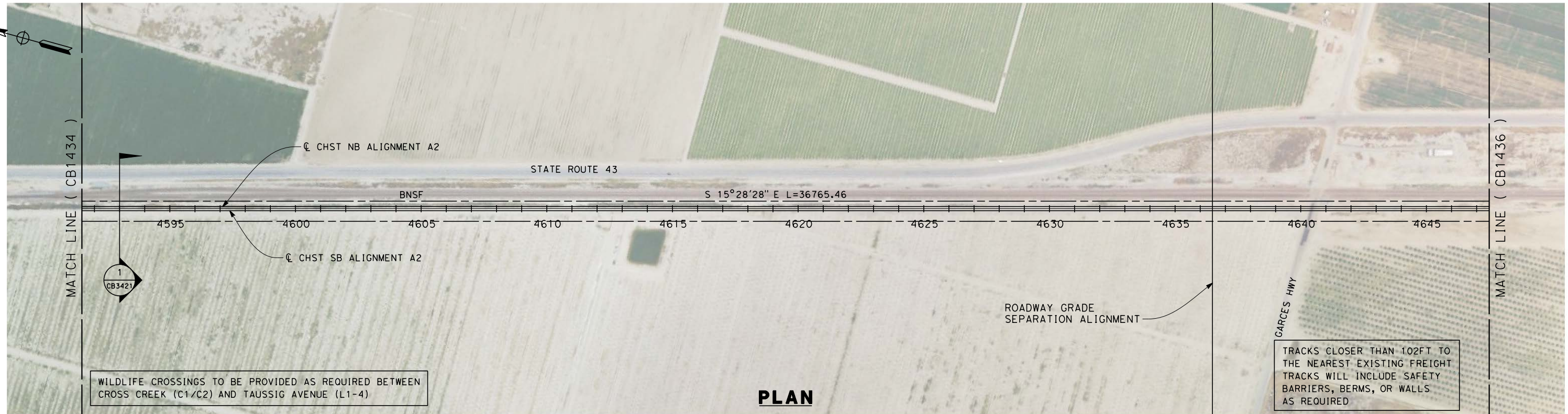


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4535+50 TO 4591+50  
 PLAN AND PROFILE

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CB1434  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 15 OF 23



7/18/2011 4:21:52 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\A2\FB-CB-1435-A2.dgn



STATION	4591+50	4600+00	4610+00	4620+00	4630+00	4640+00	4647+50	TOTAL
CY	Exc							
	Emb							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

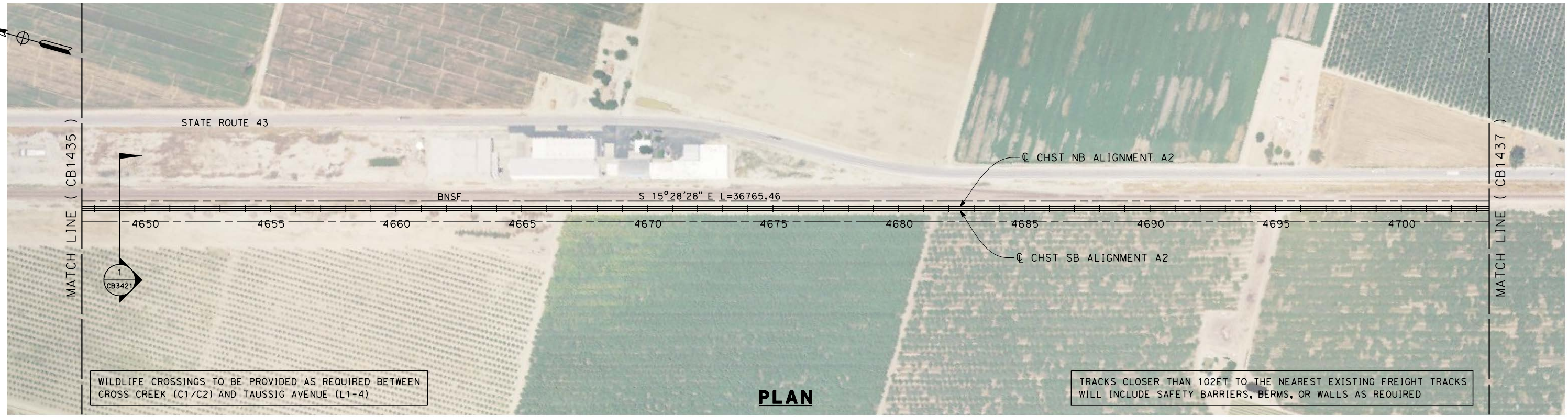


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4591+50 TO 4647+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1435  
 SCALE  
AS SHOWN  
 SHEET NO.  
16 OF 23



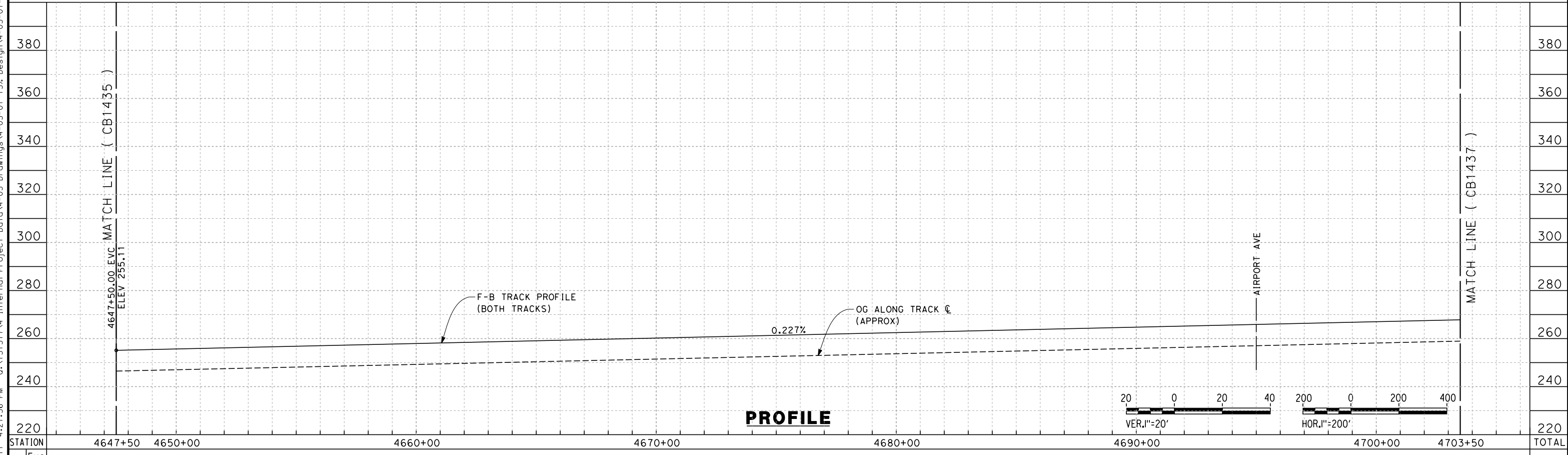
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WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

**PLAN**



**PROFILE**

STATION	4647+50	4650+00	4660+00	4670+00	4680+00	4690+00	4700+00	4703+50	TOTAL
---------	---------	---------	---------	---------	---------	---------	---------	---------	-------

Exc					
Emb					

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

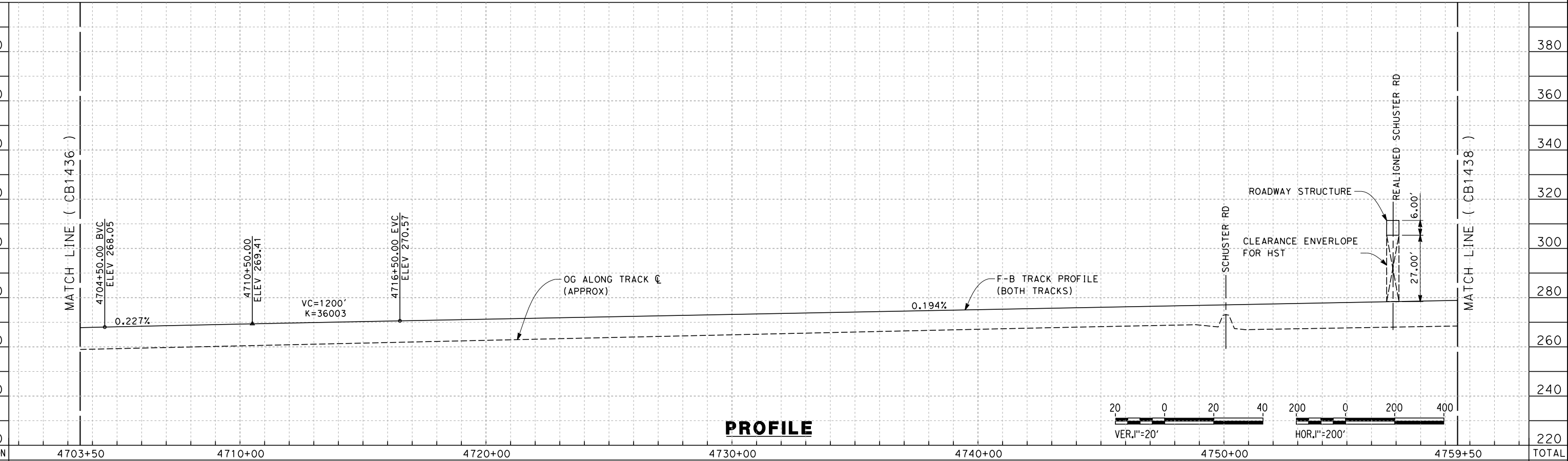
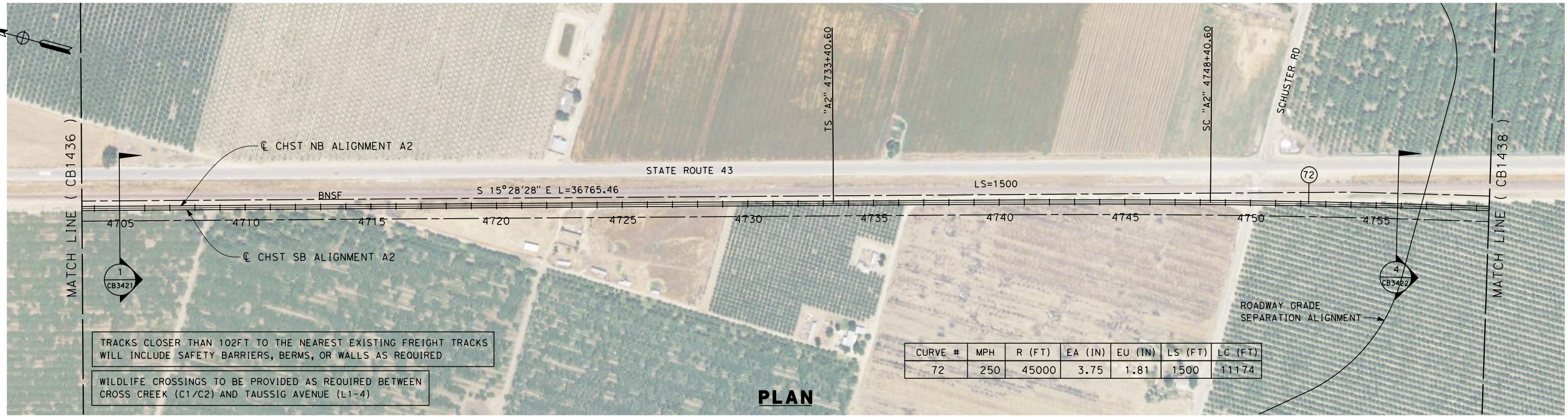


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4647+50 TO 4703+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1436  
 SCALE  
AS SHOWN  
 SHEET NO.  
17 OF 23



7/18/2011 4:21:59 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\A2\FB-CB-1437-A2.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

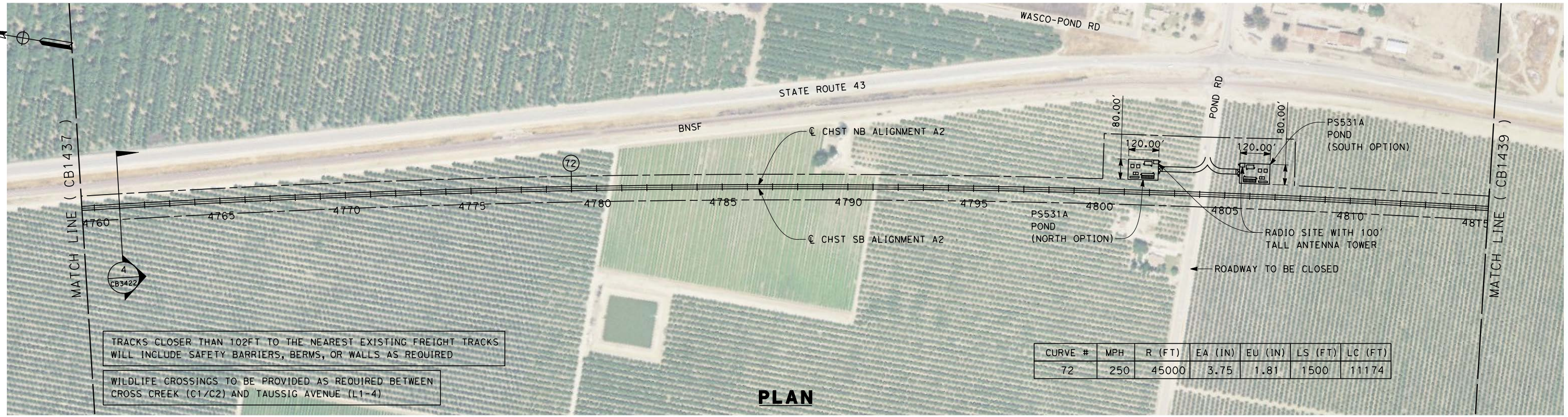


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4703+50 TO 4759+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1437  
 SCALE  
AS SHOWN  
 SHEET NO.  
18 OF 23



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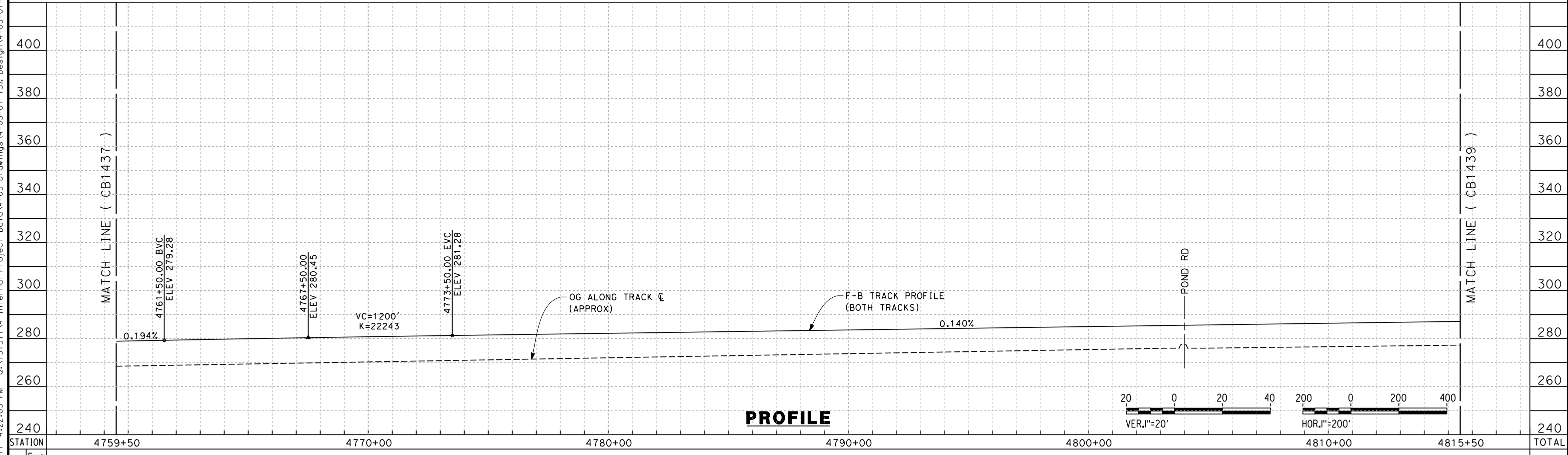


TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
72	250	45000	3.75	1.81	1500	11174

**PLAN**



**PROFILE**

STATION	4759+50	4770+00	4780+00	4790+00	4800+00	4810+00	4815+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

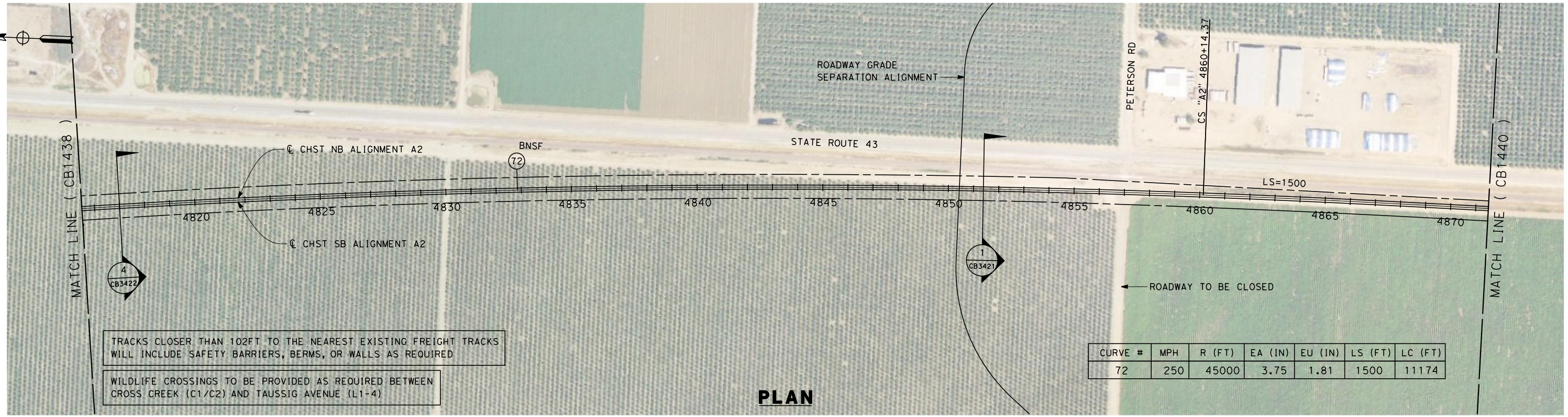


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4759+50 TO 4815+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1438  
 SCALE  
AS SHOWN  
 SHEET NO.  
19 OF 23



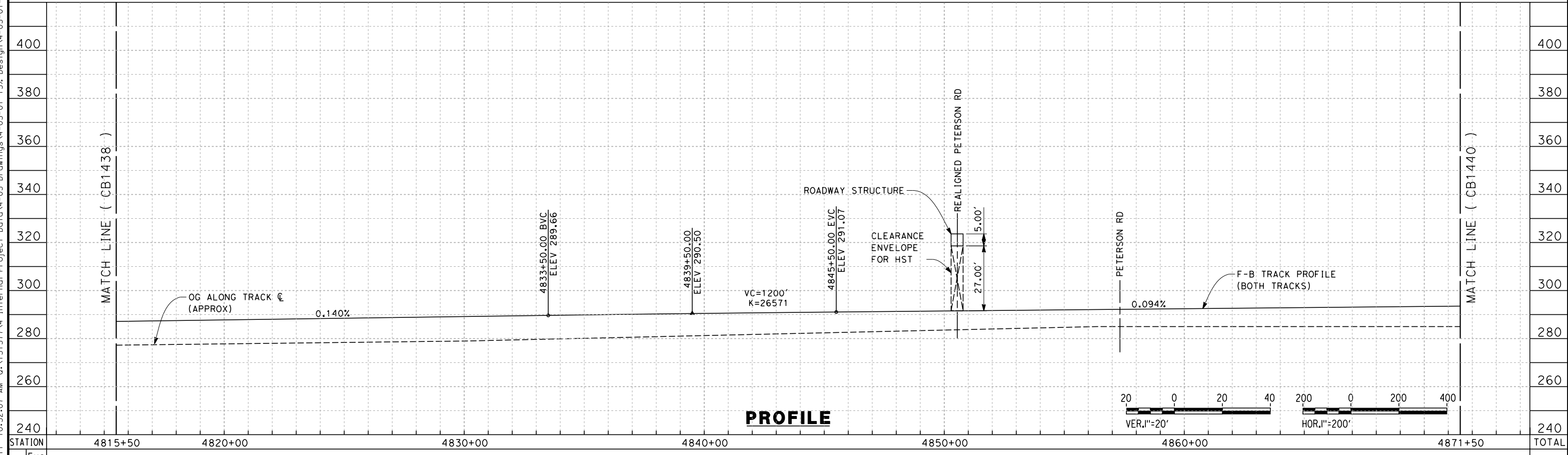
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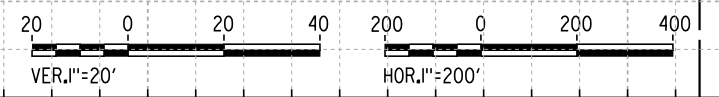
TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

**PLAN**



**PROFILE**



STATION	4815+50	4820+00	4830+00	4840+00	4850+00	4860+00	4871+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

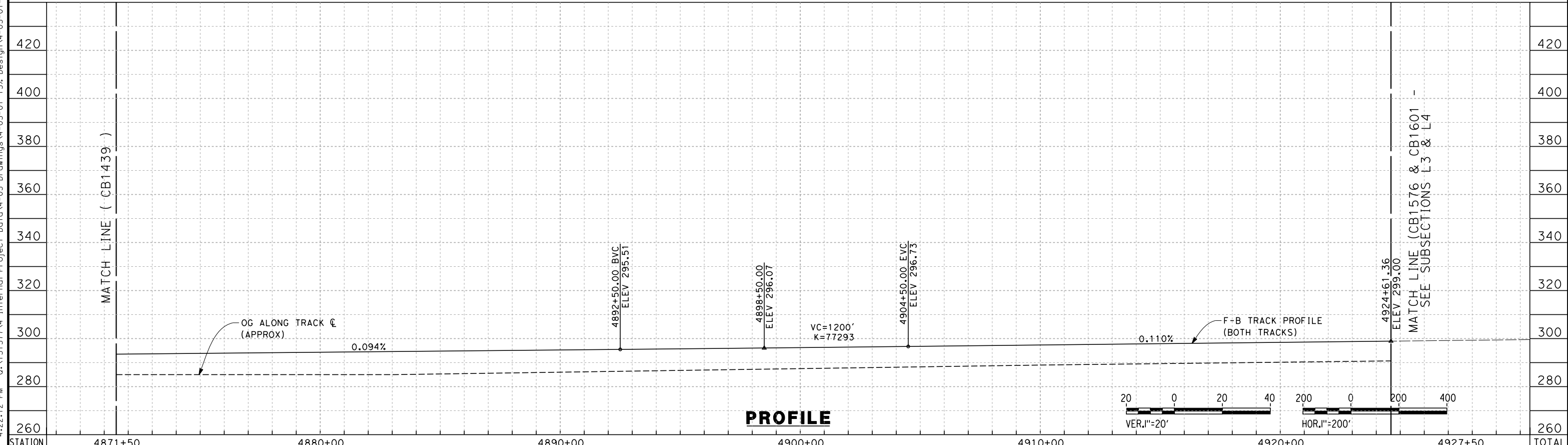
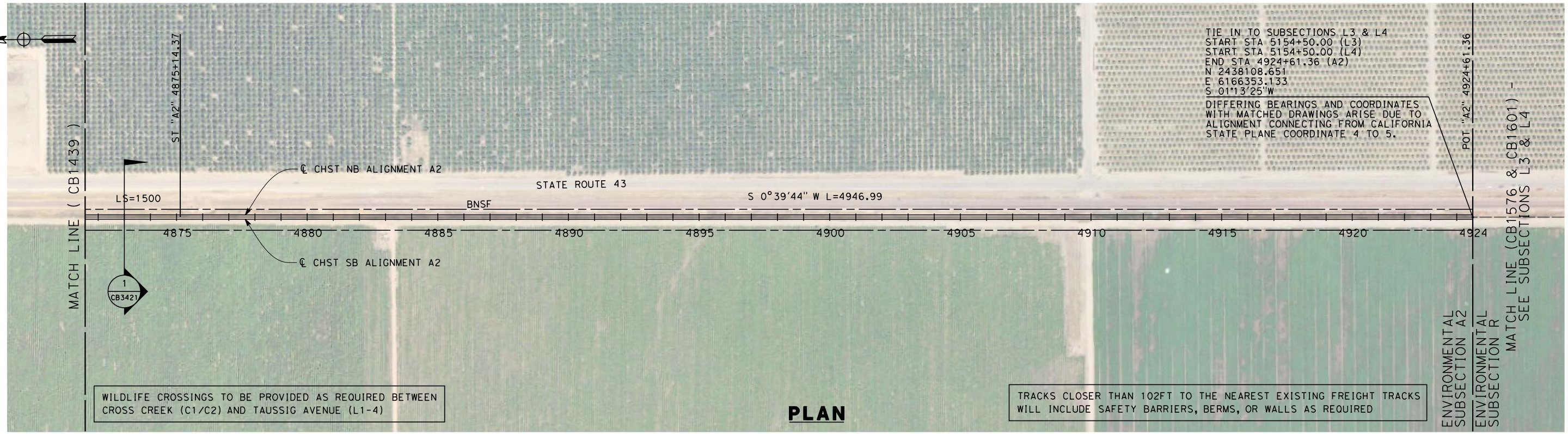


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 STA. 4815+50 TO 4871+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1439  
 SCALE  
AS SHOWN  
 SHEET NO.  
20 OF 23



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STATION	4871+50	4880+00	4890+00	4900+00	4910+00	4920+00	4927+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER

DRAWN BY  
A. DEAN

CHECKED BY  
J. LIPSCOMB

IN CHARGE  
A. LUFT

DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

THROUGH ALLENSWORTH SUBSECTION  
ALIGNMENT A2  
STA. 4871+50 TO 4924+61  
PLAN AND PROFILE

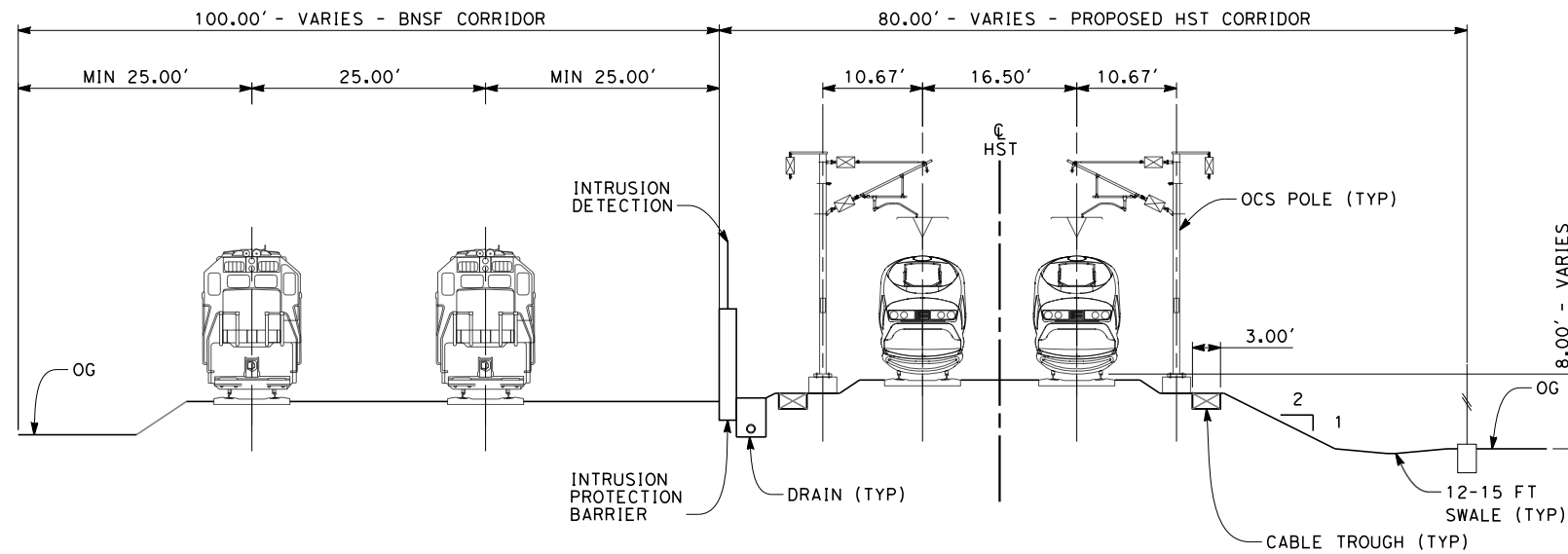
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HSR 06-0003

DRAWING NO.  
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SCALE  
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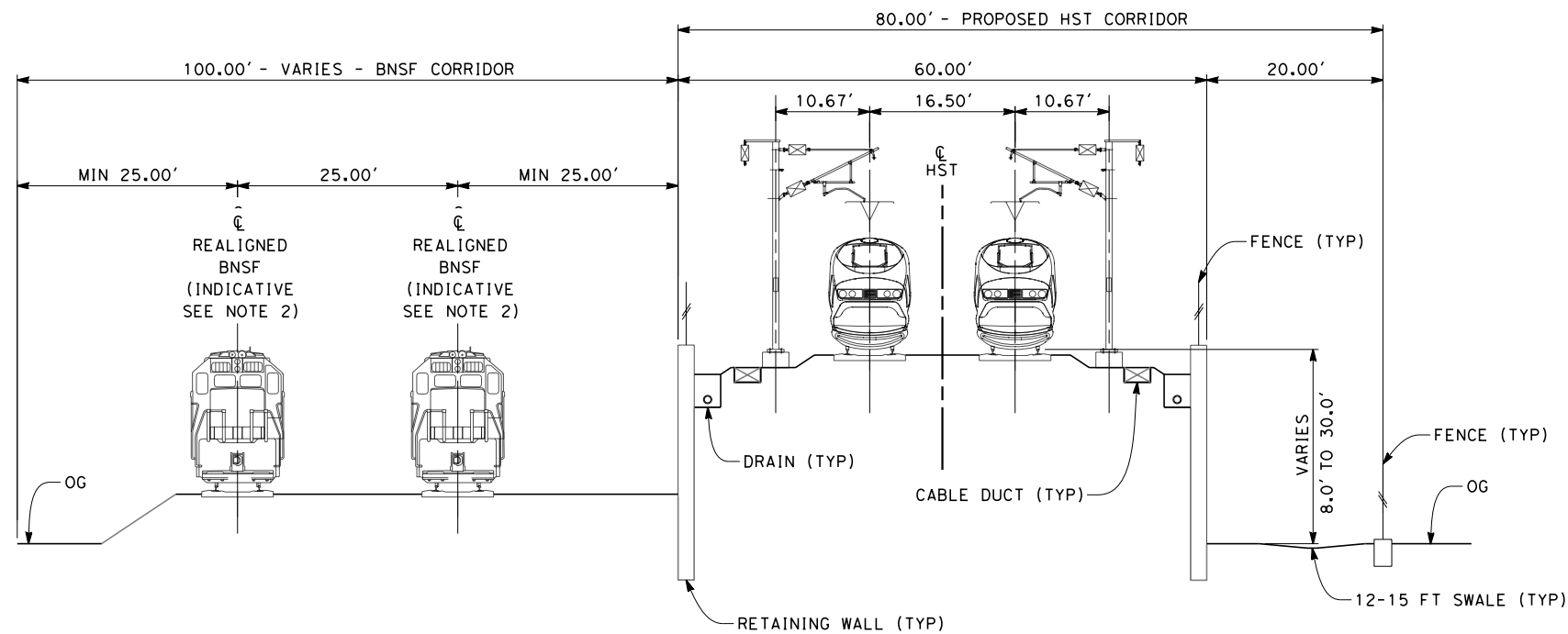
SHEET NO.  
21 OF 23

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**SECTION 1**

TWIN TRACKS ADJACENT TO BNSF - EMBANKMENT  
 STA 3919+50 THROUGH STA 3991+50  
 STA 4095+04 THROUGH STA 4255+42  
 STA 4344+34 THROUGH STA 4442+88  
 STA 4467+19 THROUGH STA 4514+68  
 STA 4535+60 THROUGH STA 4755+86  
 STA 4851+39 THROUGH STA 4924+61.36



**SECTION 2**

TWIN TRACKS ADJACENT TO BNSF - RETAINED EMBANKMENT  
 STA 3991+50 THROUGH STA 4006+69  
 STA 4075+59 THROUGH STA 4095+04  
 STA 4442+88 THROUGH STA 4453+75  
 STA 4454+65 THROUGH STA 4467+19  
 STA 4514+68 THROUGH STA 4529+35  
 STA 4530+25 THROUGH STA 4535+60

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  3. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
J. WALKER  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
 NOT FOR  
 CONSTRUCTION

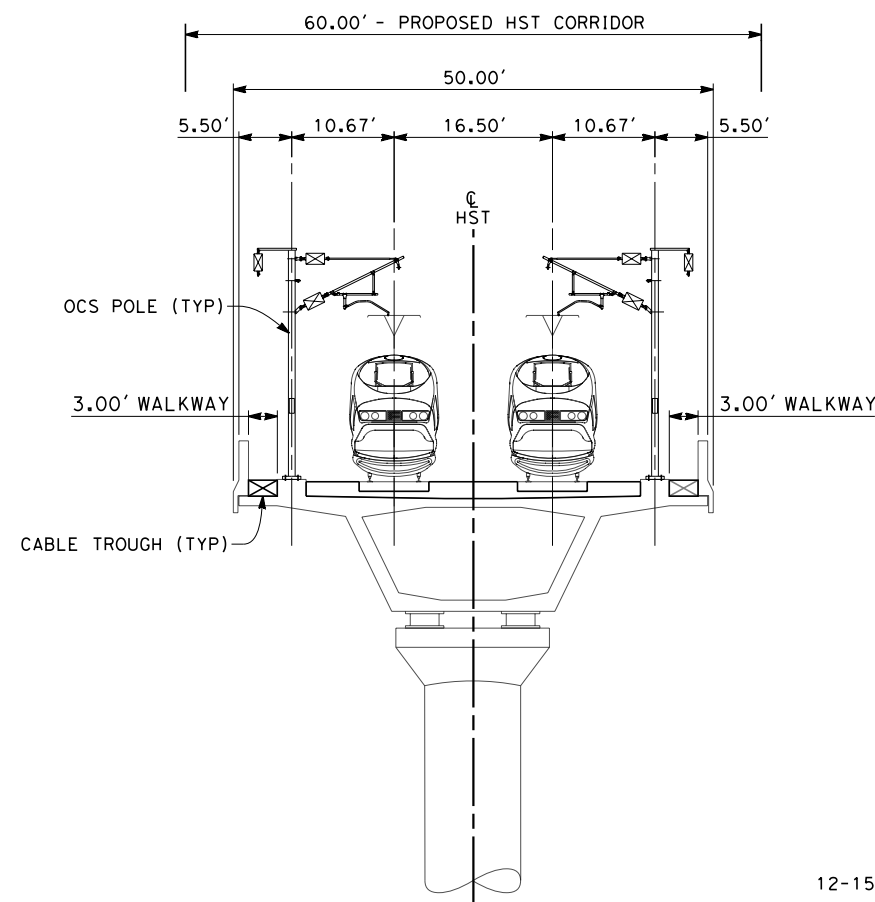


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 THROUGH ALLENSWORTH SUBSECTION  
 ALIGNMENT A2  
 CROSS SECTIONS

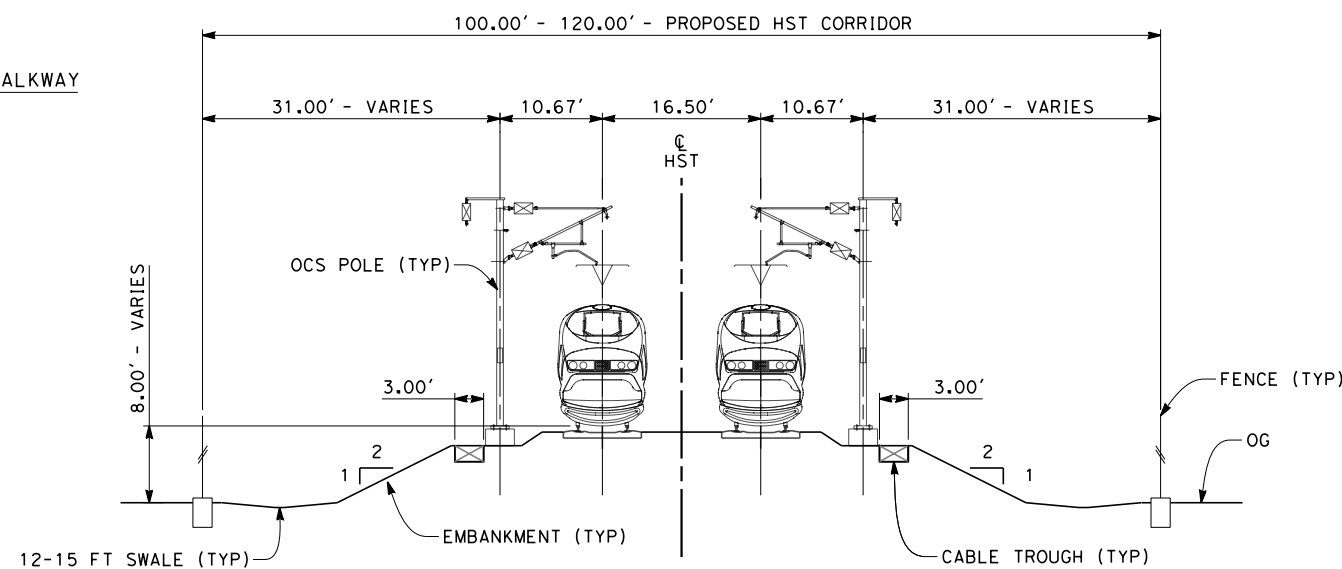
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HSR 06-0003  
 DRAWING NO.  
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 SCALE  
AS SHOWN  
 SHEET NO.  
22 OF 23



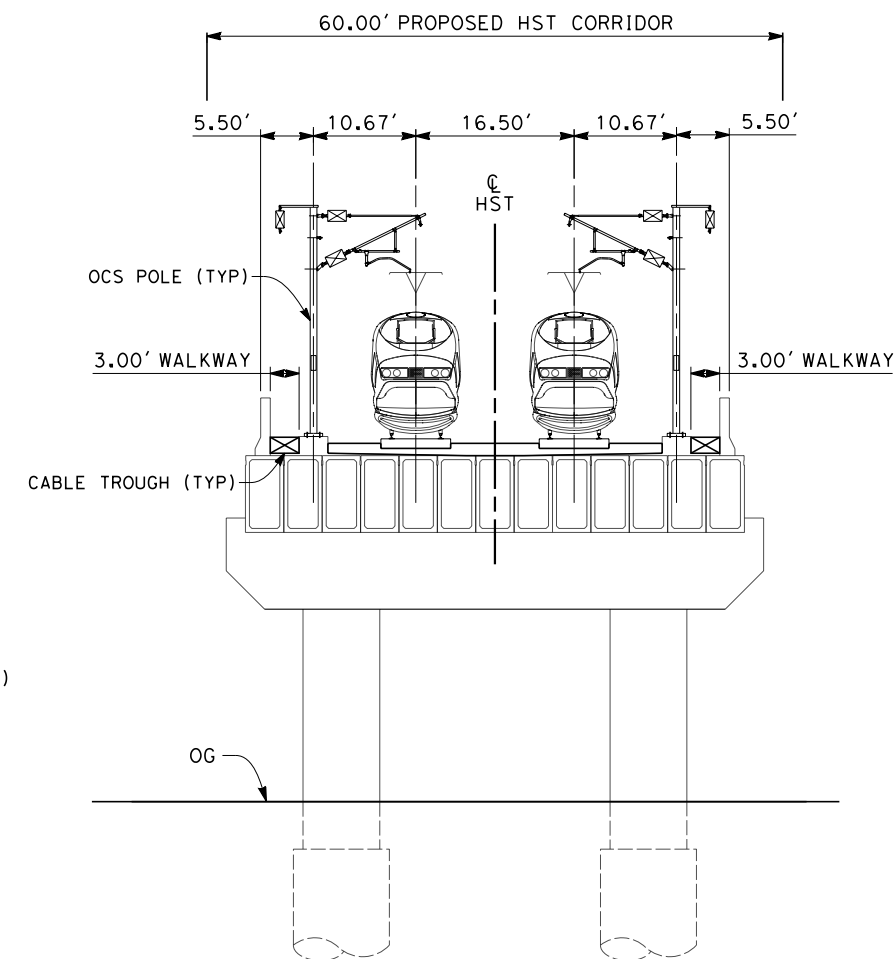
- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



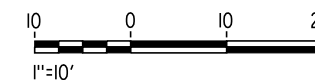
**SECTION 3**  
TWIN TRACK - AERIAL STRUCTURE  
STA 4006+69 THROUGH STA 4075+59



**SECTION 4**  
TWIN TRACK - EMBANKMENT  
STA 4255+42 THROUGH STA 4344+34  
STA 4755+86 THROUGH STA 4851+39



**SECTION 5**  
TWIN TRACK - BOX GIRDER BRIDGE  
STA 4453+75 THROUGH STA 4454+65  
STA 4529+35 THROUGH STA 4530+25



5/12/2011 4:33:35 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\A2\FB-CB-3422-A2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
J. WALKER  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

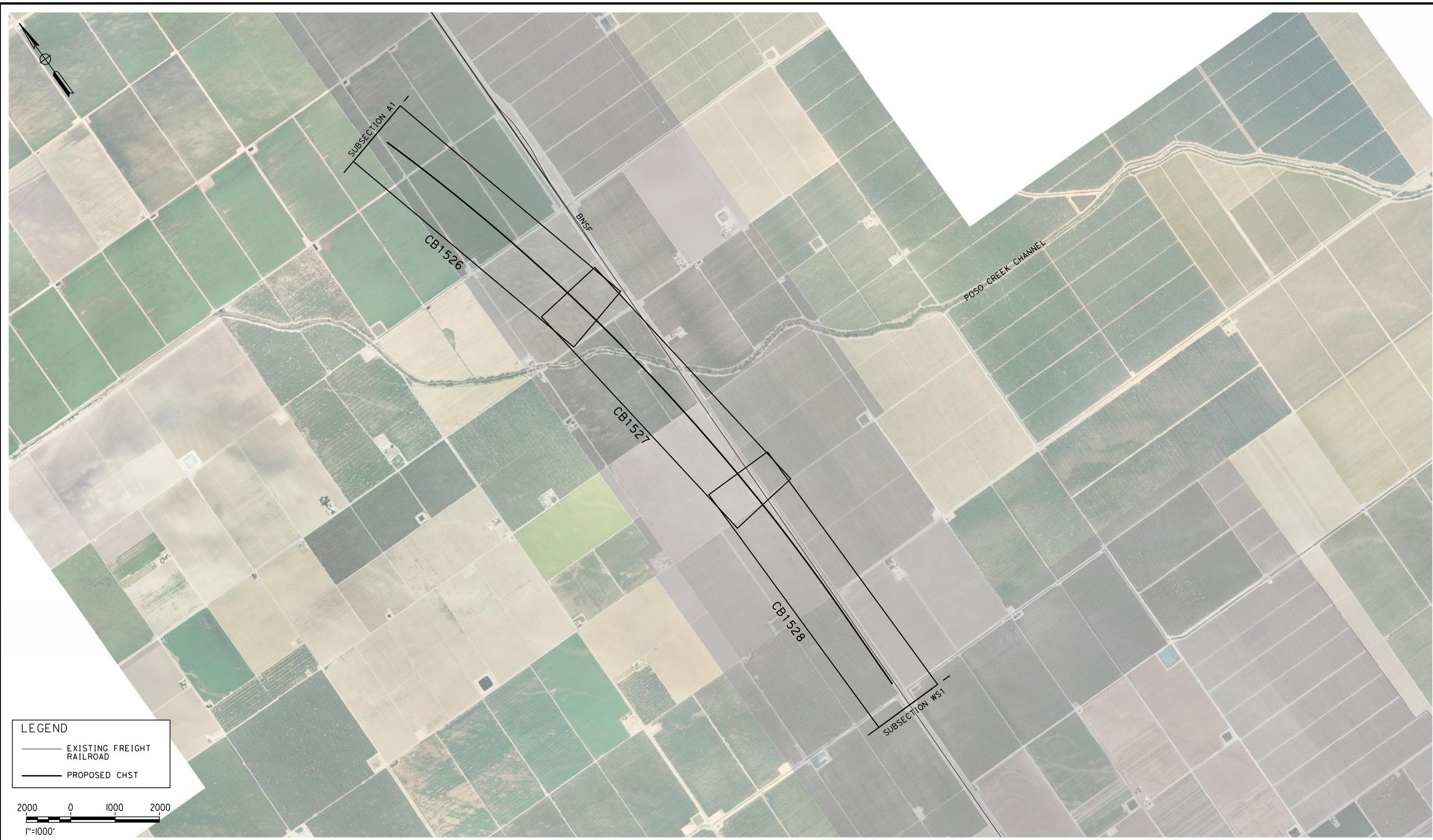


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH ALLENSWORTH SUBSECTION  
ALIGNMENT A2  
CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB3422  
SCALE  
AS SHOWN  
SHEET NO.  
23 OF 23



5/10/2011 7:14:14 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\NHSR 15% Design\L1\FB-CB-1525-L1.dgn paul.tonkin



**LEGEND**

— EXISTING FREIGHT RAILROAD

— PROPOSED CHST

2000 0 1000 2000

1"=1000'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER

DRAWN BY  
A. DEAN

CHECKED BY  
J. LIPSCOMB

IN CHARGE  
A. LUFT

DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

POSO CREEK SUBSECTION  
ALIGNMENT L1  
STA. 5154+50 TO 5322+49  
KEY MAP

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
CB1525

SCALE  
AS SHOWN

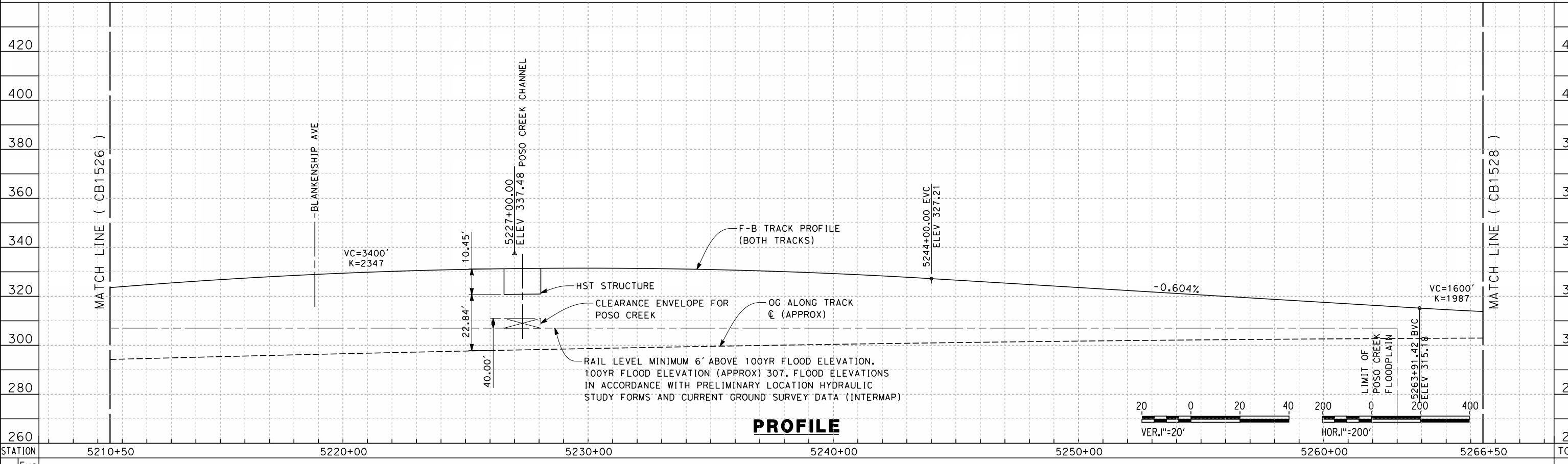
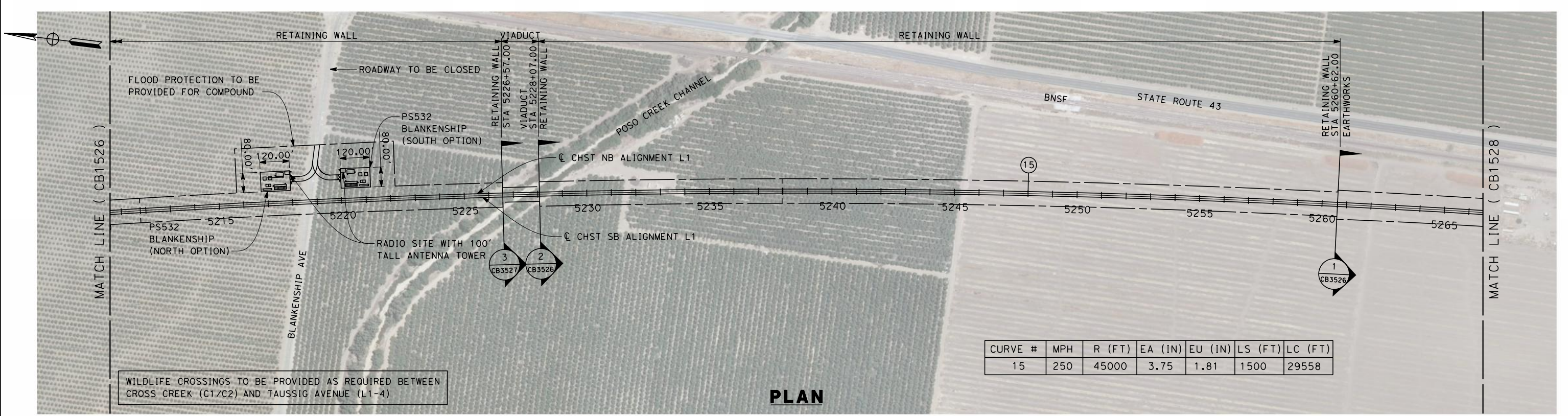
SHEET NO.  
1 OF 6







6/27/2011 6:07:32 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\1\FB-CB-1527-L1.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



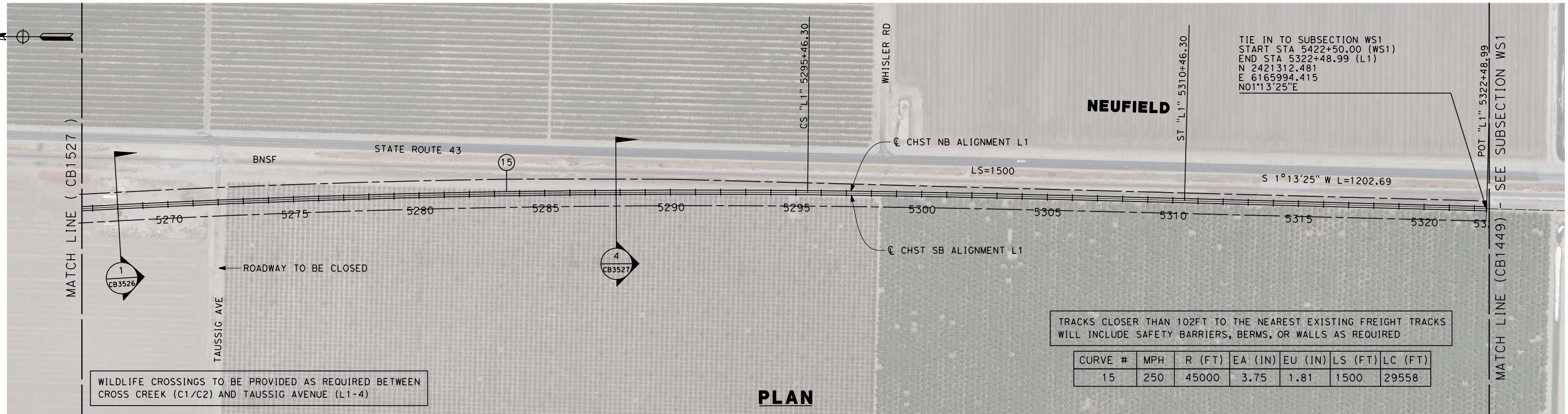
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

POSO CREEK SUBSECTION  
ALIGNMENT L1  
STA. 5210+50 TO 5266+50  
PLAN AND PROFILE

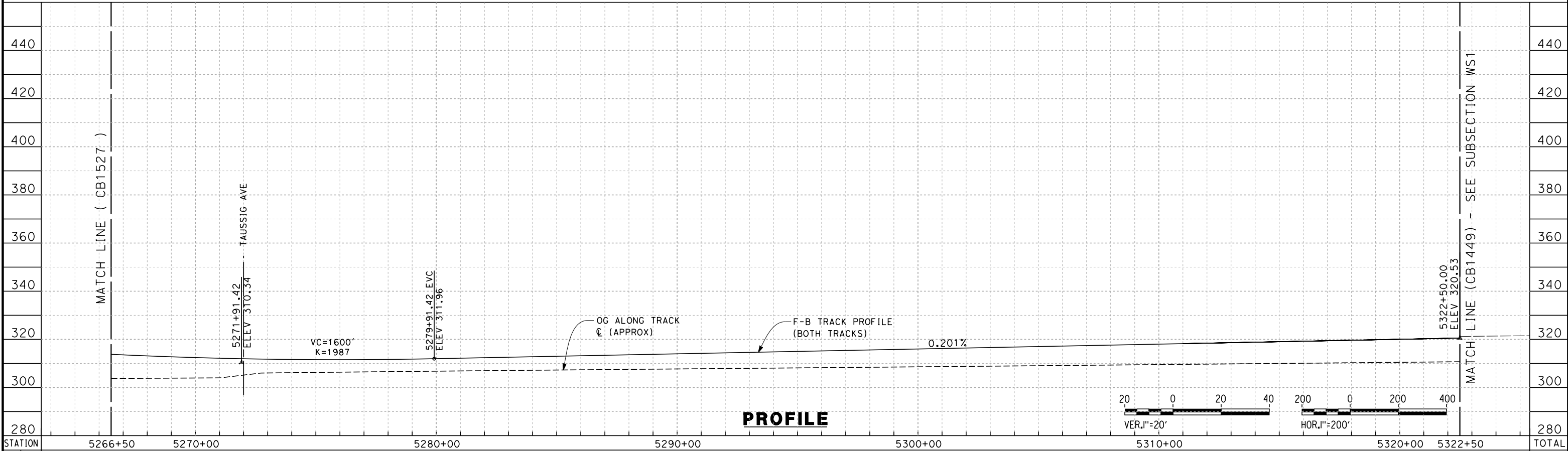
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HSR 06-0003  
DRAWING NO.  
CB1527  
SCALE  
AS SHOWN  
SHEET NO.  
3 OF 6



7/18/2011 4:22:17 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\1\FB-CB-1528-L1.dgn



**PLAN**



**PROFILE**

STATION	5266+50	5270+00	5280+00	5290+00	5300+00	5310+00	5320+00	5322+50	TOTAL
Exc									
Emb									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

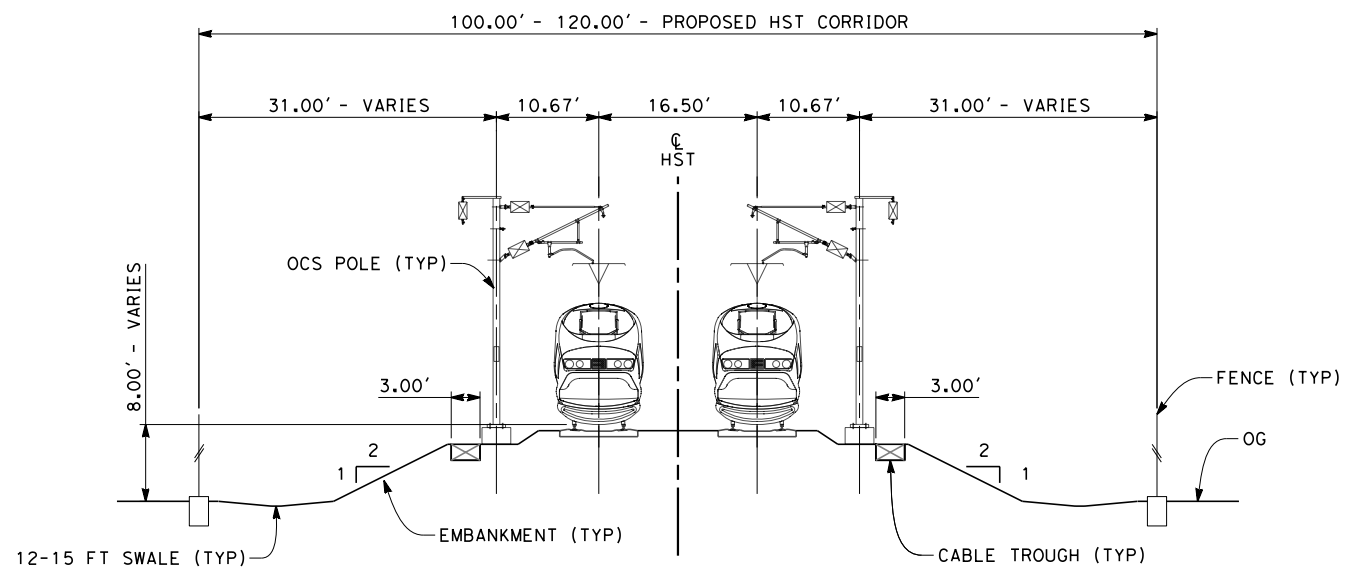
**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



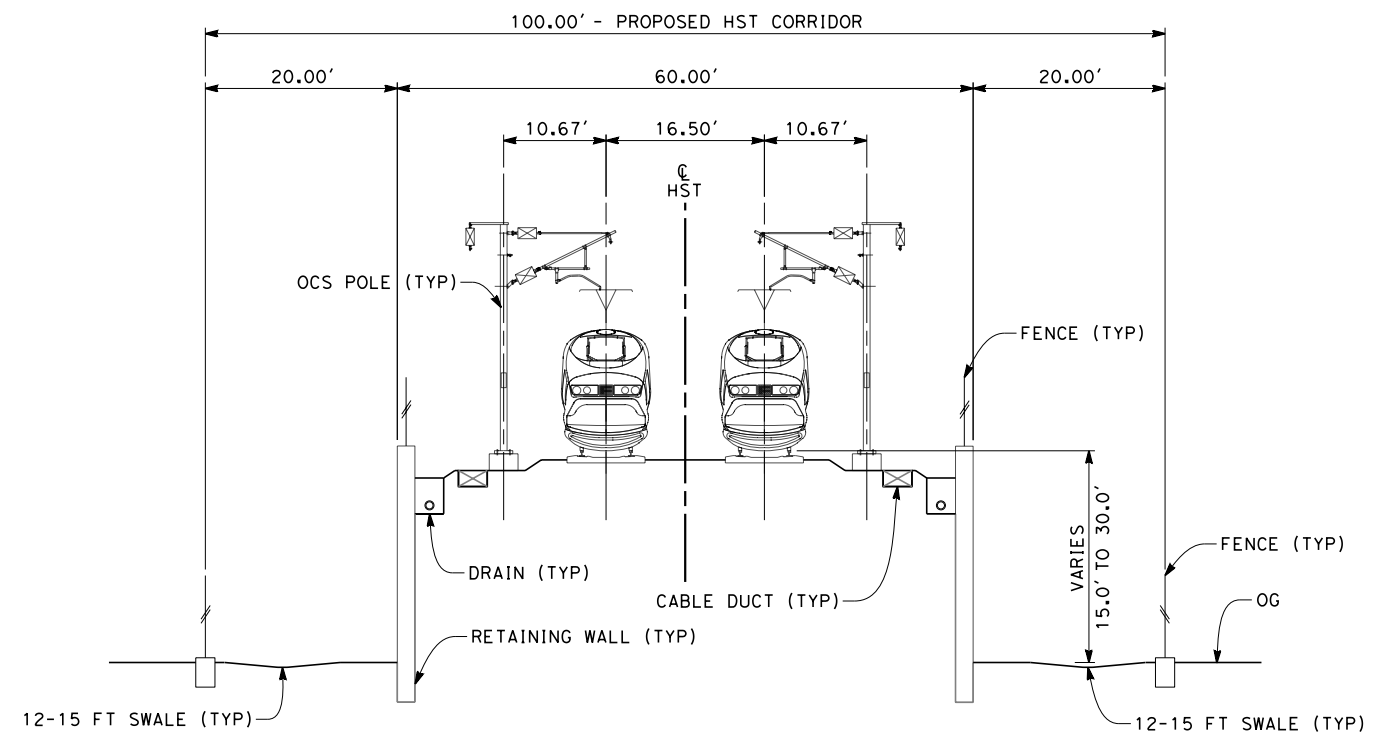
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
POSO CREEK SUBSECTION  
ALIGNMENT L1  
STA. 5266+50 TO 5322+49  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1528  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 6

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 1**  
 TWIN TRACKS - EMBANKMENT  
 STA 5154+50 THROUGH STA 5188+74  
 STA 5260+62 THROUGH STA 5287+82



**SECTION 2**  
 TWIN TRACKS - RETAINED EMBANKMENT  
 STA 5188+74 THROUGH STA 5226+57  
 STA 5228+07 THROUGH STA 5260+62



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
J. WALKER  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



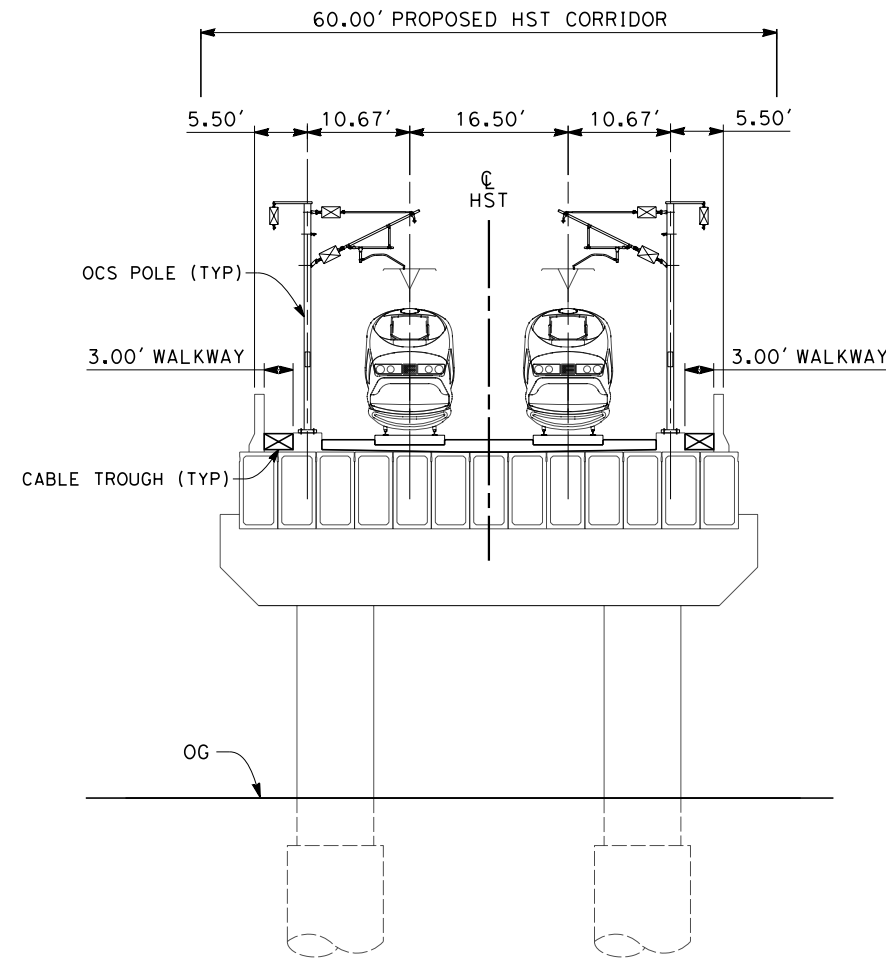
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L1  
 CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB3526  
 SCALE  
AS SHOWN  
 SHEET NO.  
5 OF 6

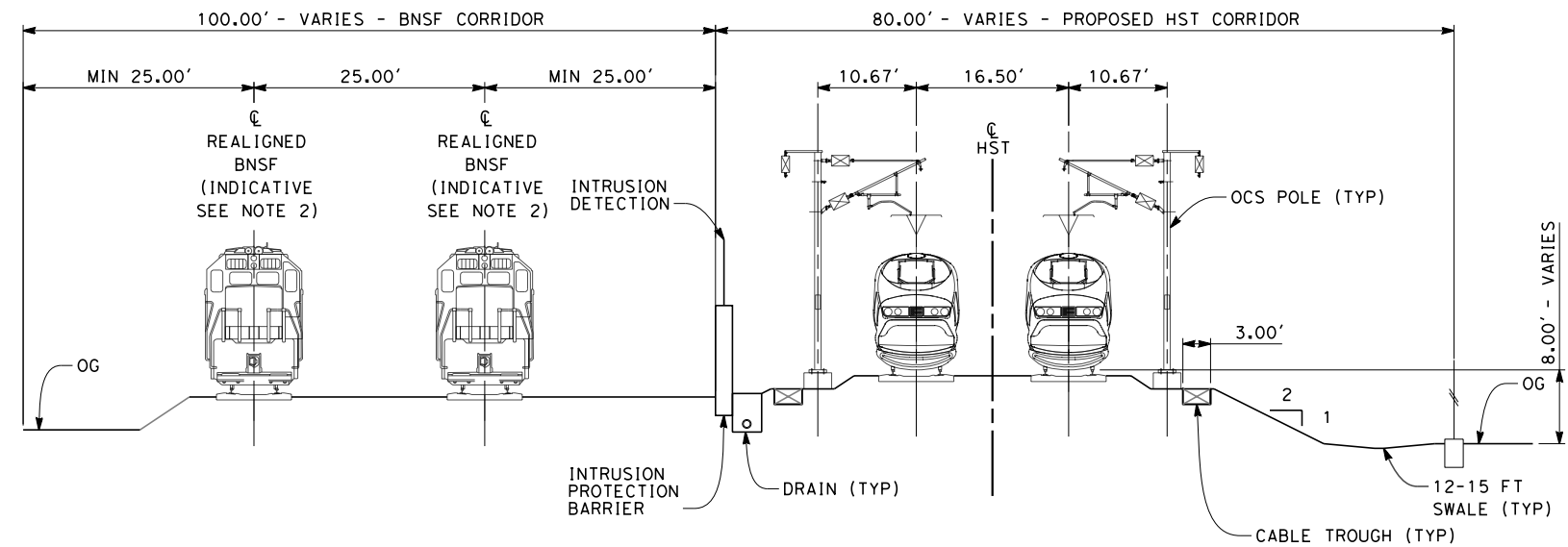


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- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  3. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 3**  
 TWIN TRACKS - BOX GIRDER BRIDGE  
 STA 5226+57 THROUGH STA 5228+07



**SECTION 4**  
 TWIN TRACKS ADJACENT TO BNSF - EMBANKMENT  
 STA 5287+82 THROUGH STA 5322+48.99



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
 G. WALKER  
 DRAWN BY  
 J. WALKER  
 CHECKED BY  
 J. LIPSCOMB  
 IN CHARGE  
 A. LUFT  
 DATE  
 05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L1  
 CROSS SECTIONS

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CB3527  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 6 OF 6



5/10/2011 2:50:54 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\NHSR 15% Design\L2\FB-CB-1550-L2.dgn paul.tonkin



**LEGEND**

- EXISTING FREIGHT RAILROAD
- PROPOSED CHST

2000 0 2000 4000  
1"=2000'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

POSO CREEK SUBSECTION  
ALIGNMENT L2  
STA. 5154+50 TO 5598+51  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1550  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 13



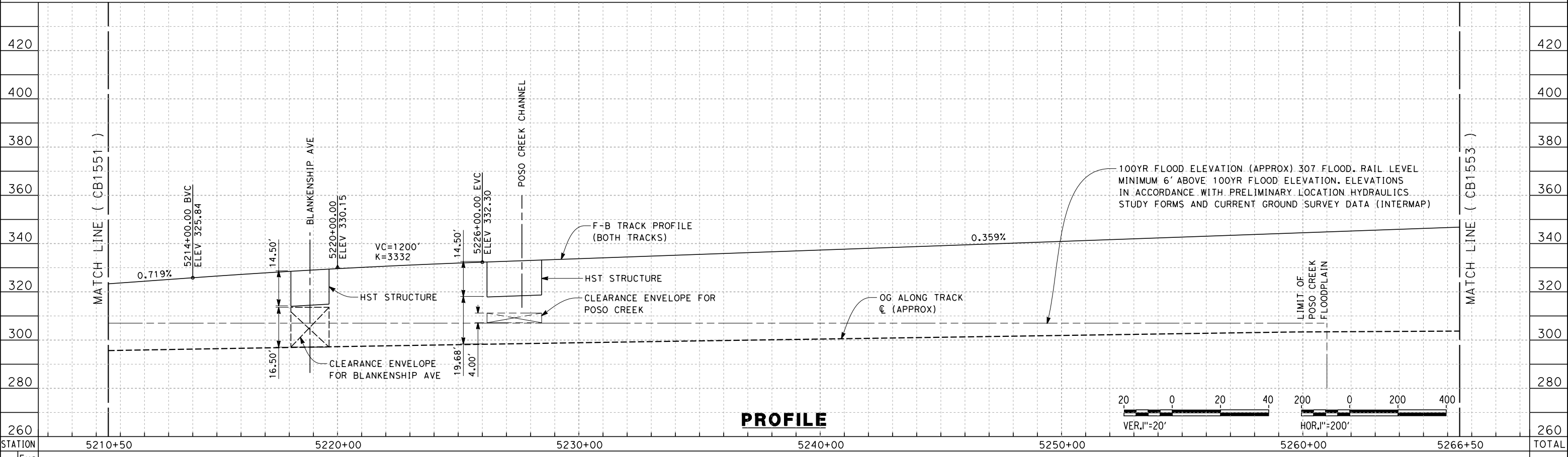




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CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
91	250	45000	3.75	1.81	1500	7438



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER

DRAWN BY  
A. DEAN

CHECKED BY  
J. LIPSCOMB

IN CHARGE  
A. LUFT

DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

POSO CREEK SUBSECTION  
ALIGNMENT L2  
STA. 5210+50 TO 5266+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003

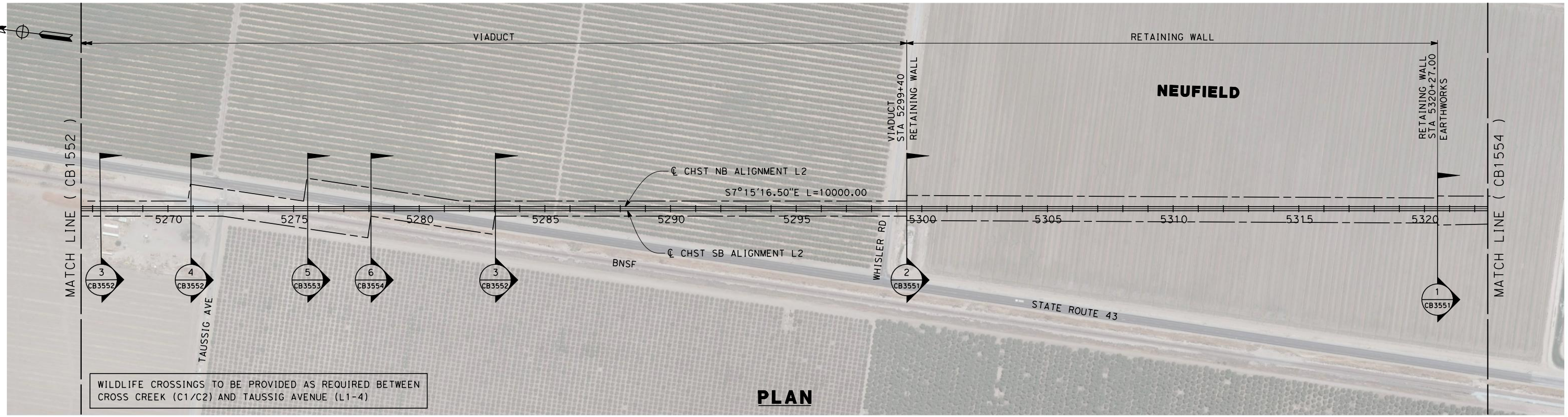
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CB1552

SCALE  
AS SHOWN

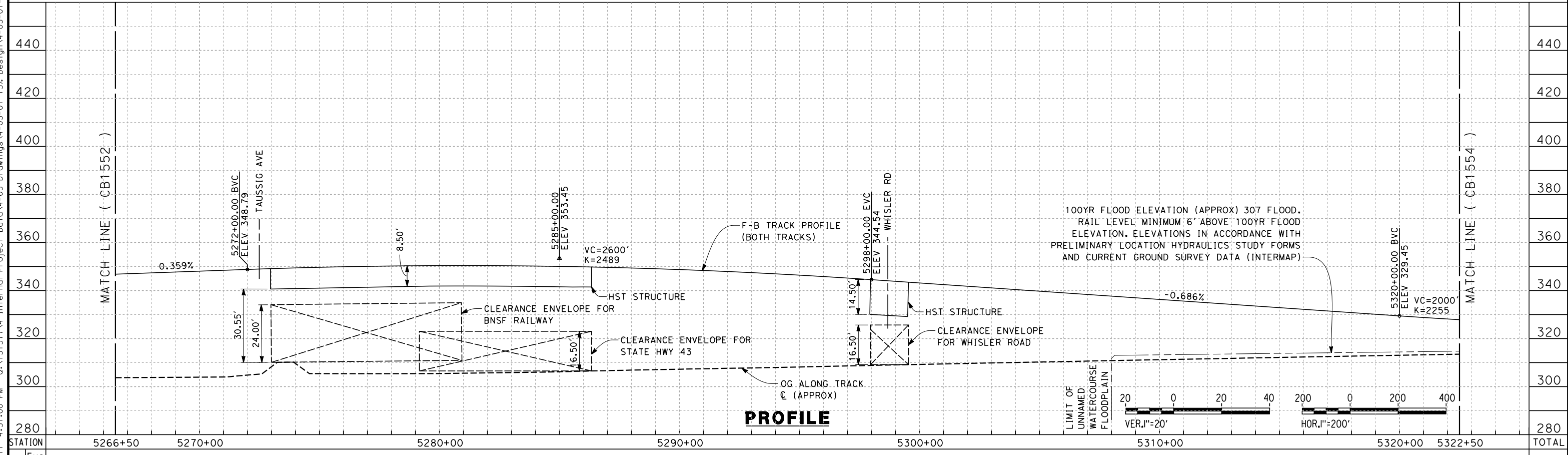
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3 OF 13



5/12/2011 4:51:00 PM 0:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\Sheets\Rail\NHSR 15% Design\N2\FB-CB-1553-L2.dgn



WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)



STATION	5266+50	5270+00	5280+00	5290+00	5300+00	5310+00	5320+00	5322+50	TOTAL
CY	Exc								
	Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



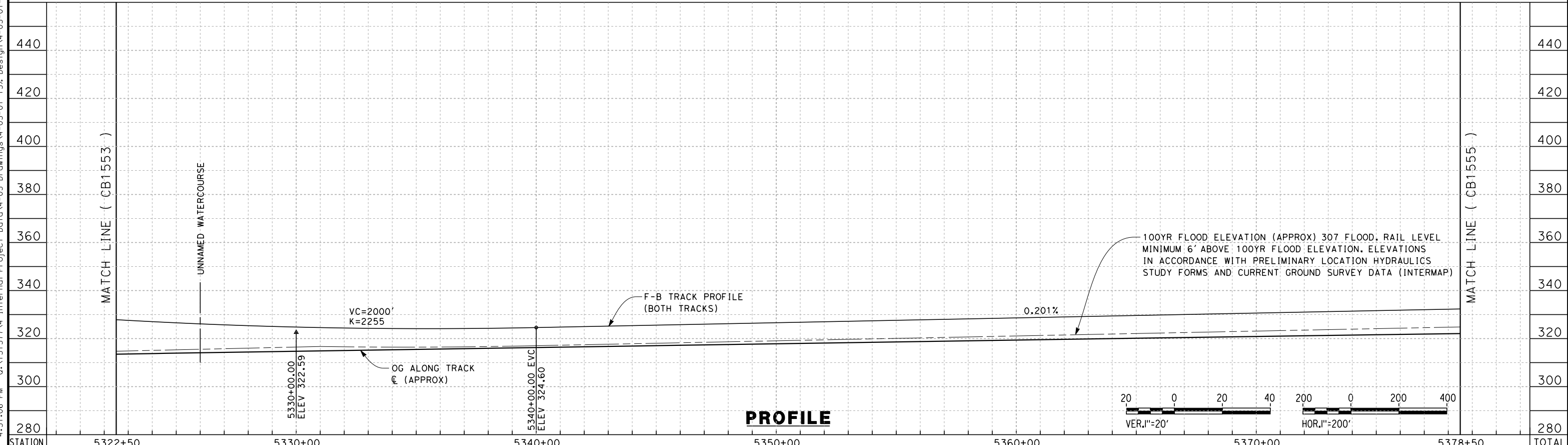
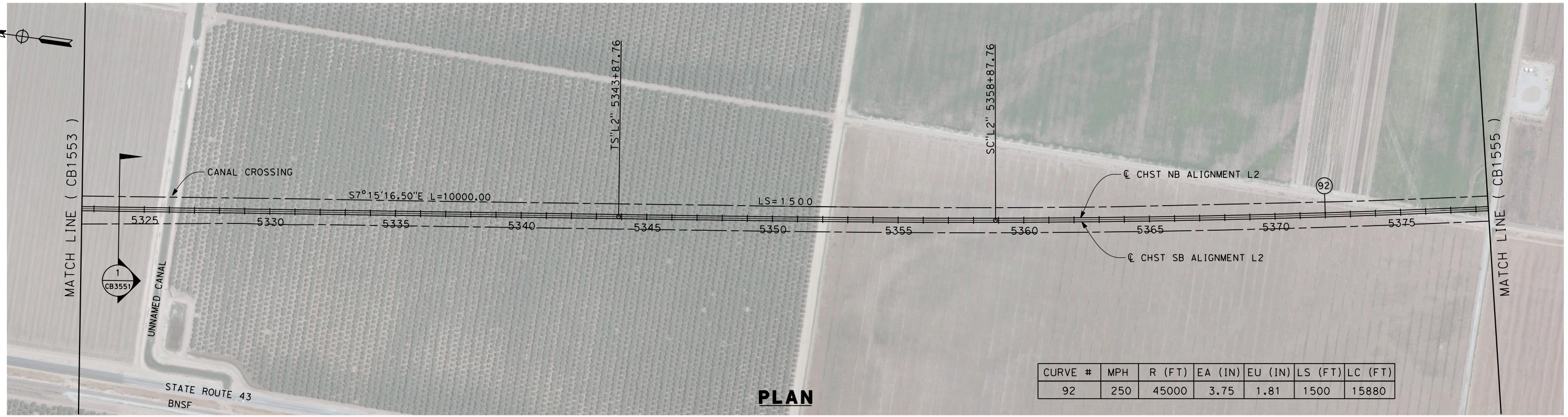
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

POSO CREEK SUBSECTION  
ALIGNMENT L2  
STA. 5266+50 TO 5322+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1553  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 13



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STATION	5322+50	5330+00	5340+00	5350+00	5360+00	5370+00	5378+50	TOTAL
CY								
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



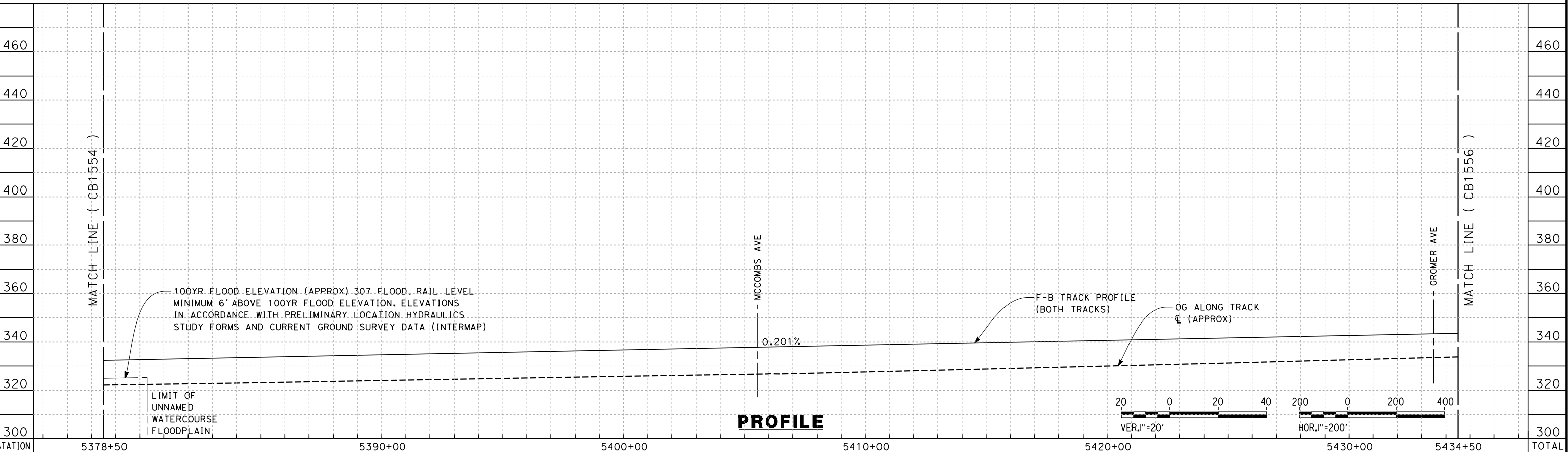
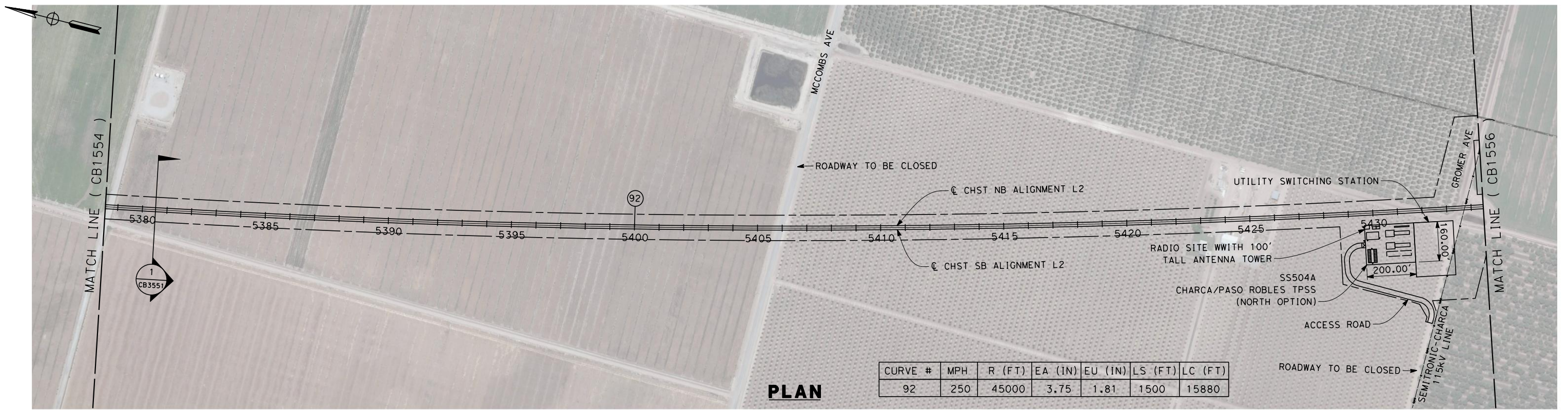
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

POSO CREEK SUBSECTION  
ALIGNMENT L2  
STA. 5322+50 TO 5378+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1554  
SCALE  
AS SHOWN  
SHEET NO.  
5 OF 13



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STATION	5378+50	5390+00	5400+00	5410+00	5420+00	5430+00	5434+50	TOTAL
CY								
	Exc							
	Emb							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

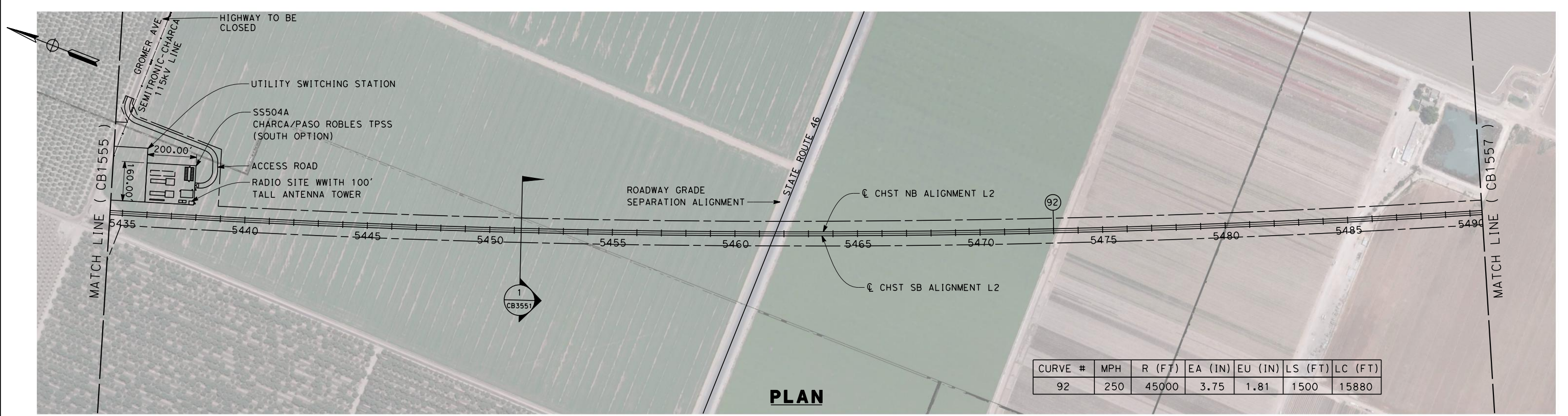


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
POSO CREEK SUBSECTION  
ALIGNMENT L2  
STA. 5378+50 TO 5434+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1555  
SCALE  
AS SHOWN  
SHEET NO.  
6 OF 13

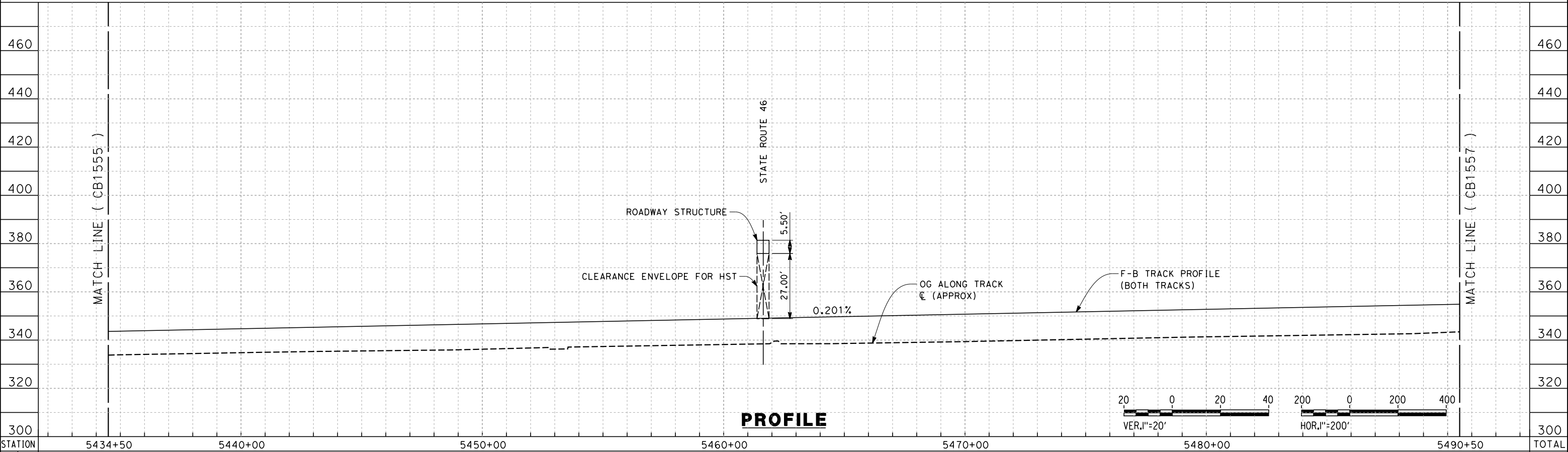


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CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
92	250	45000	3.75	1.81	1500	15880

**PLAN**



**PROFILE**

STATION	5434+50	5440+00	5450+00	5460+00	5470+00	5480+00	5490+50	TOTAL
Exc								
Emb								

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



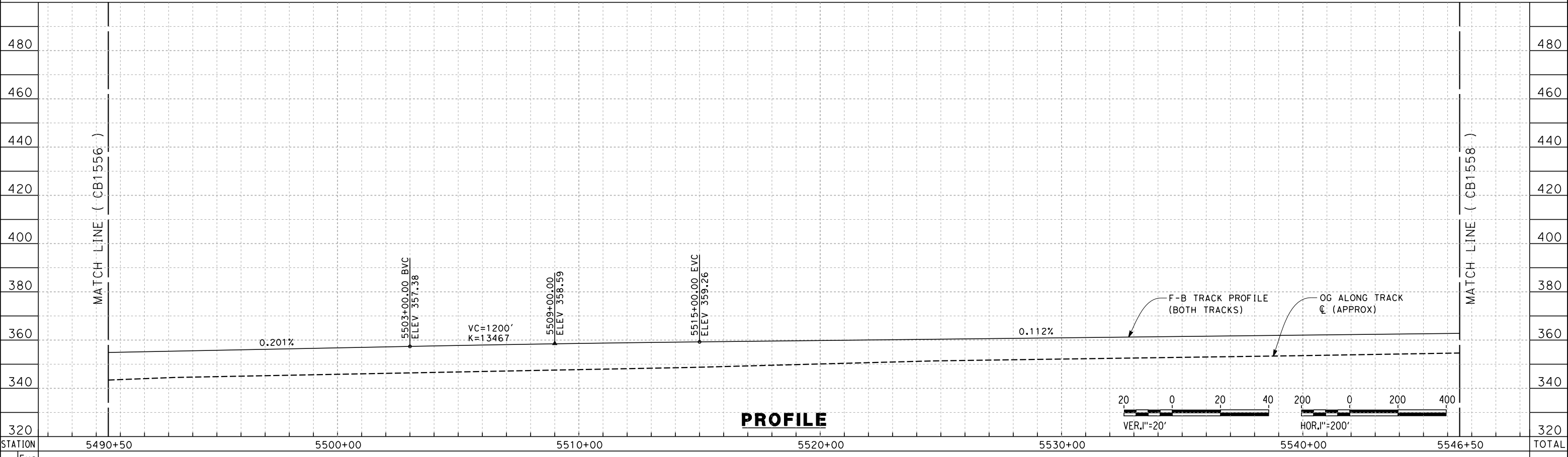
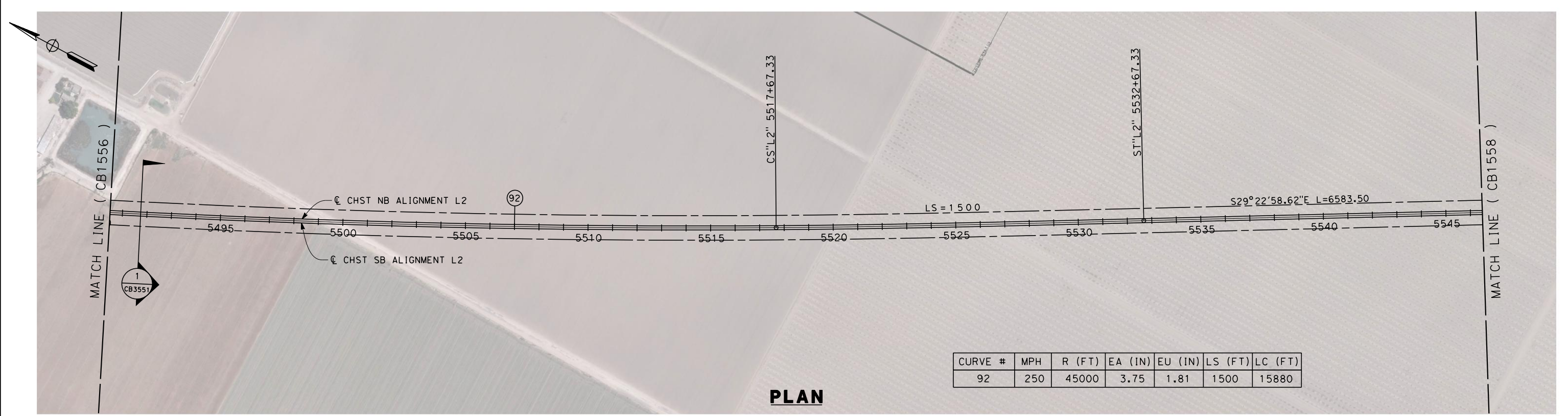
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
POSO CREEK SUBSECTION  
ALIGNMENT L2  
STA. 5434+50 TO 5490+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1556  
SCALE  
AS SHOWN  
SHEET NO.  
7 OF 13

REV	DATE	BY	CHK	APP	DESCRIPTION



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER

DRAWN BY  
A. DEAN

CHECKED BY  
J. LIPSCOMB

IN CHARGE  
A. LUFT

DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

POSO CREEK SUBSECTION  
ALIGNMENT L2  
STA. 5490+50 TO 5546+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003

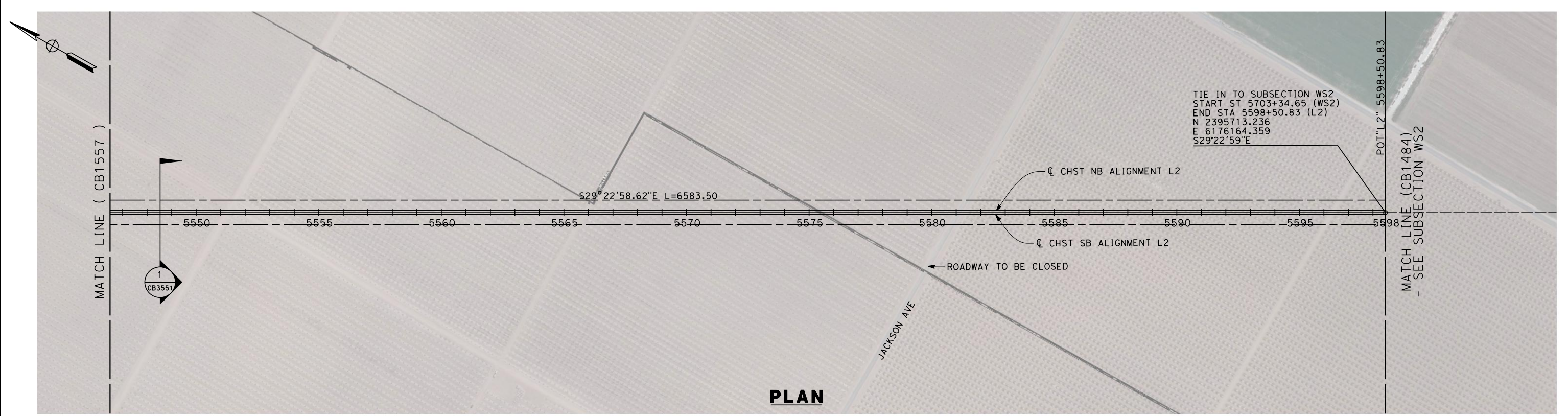
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SCALE  
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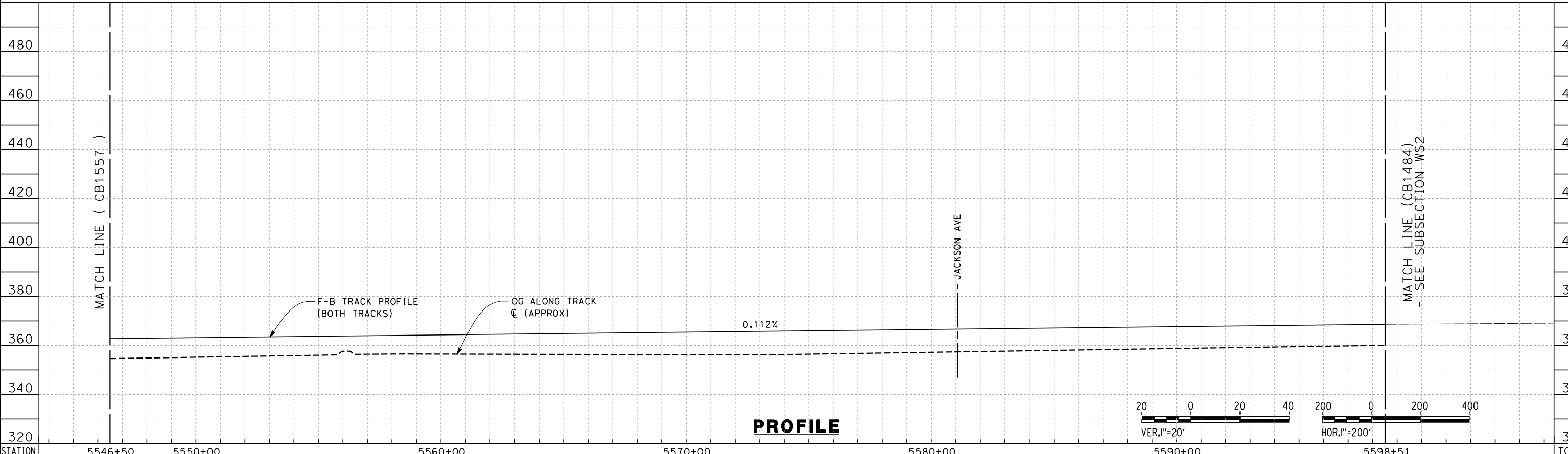
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8 OF 13



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**PLAN**



**PROFILE**

STATION	5546+50	5550+00	5560+00	5570+00	5580+00	5590+00	5598+51	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

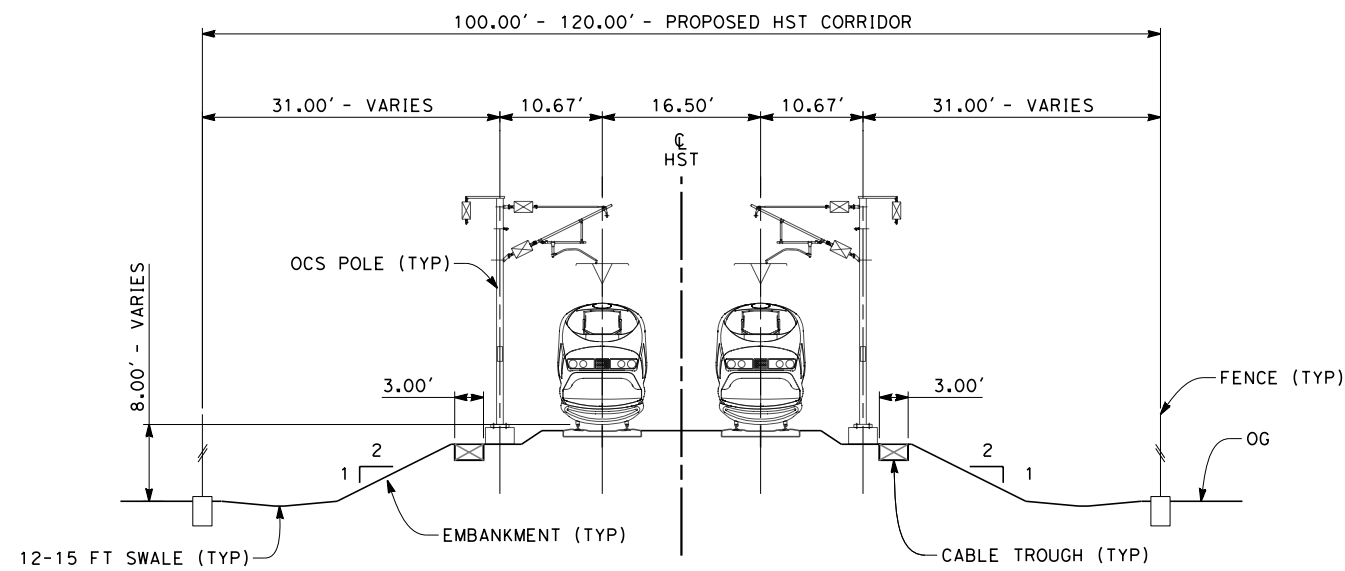


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
POSO CREEK SUBSECTION  
ALIGNMENT L2  
STA. 5546+50 TO 5598+51  
PLAN AND PROFILE

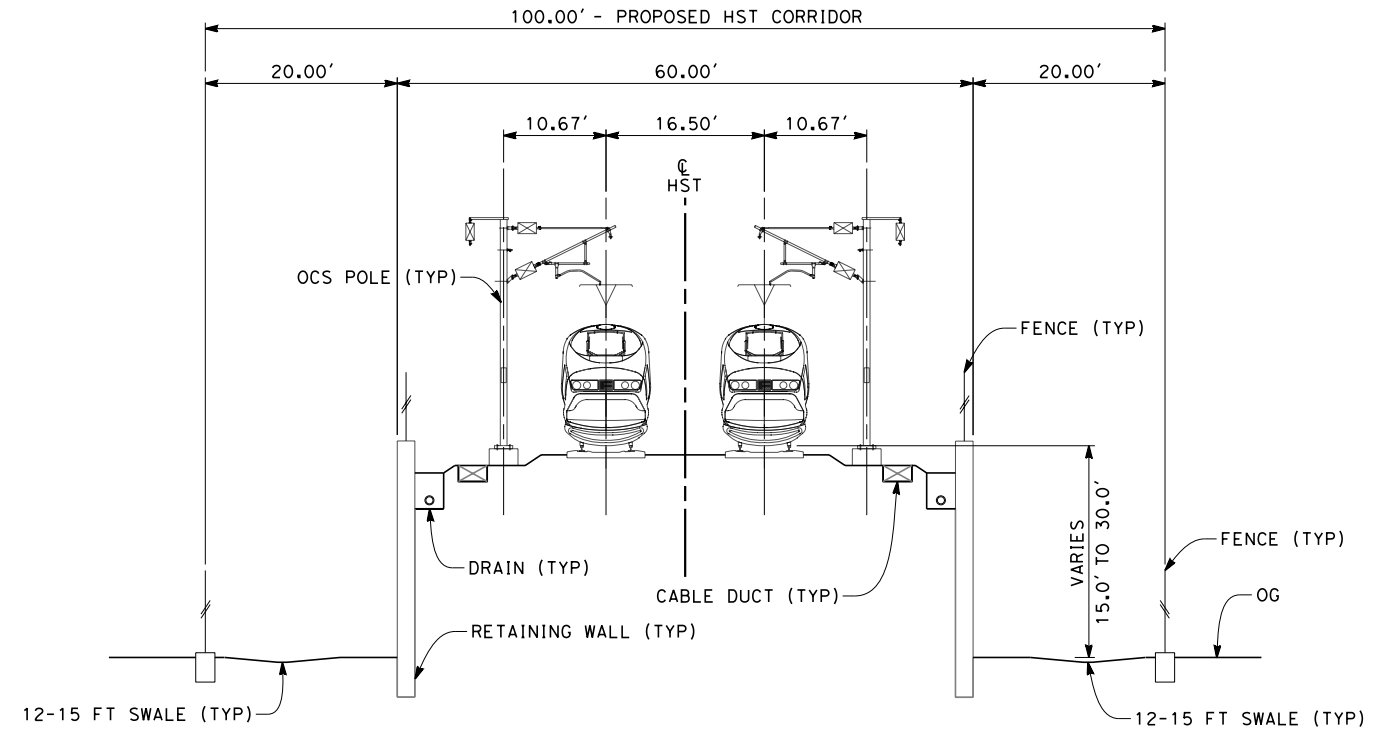
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HSR 06-0003  
DRAWING NO.  
CB1558  
SCALE  
AS SHOWN  
SHEET NO.  
9 OF 13



- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 1**  
 TWIN TRACKS - EMBANKMENT  
 STA 5154+50 THROUGH STA 5190+50  
 STA 5320+27 THROUGH STA 5598+50.83



**SECTION 2**  
 TWIN TRACKS - RETAINED EMBANKMENT  
 STA 5190+50 THROUGH STA 5214+40  
 STA 5299+40 THROUGH STA 5320+27



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
J. WALKER  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

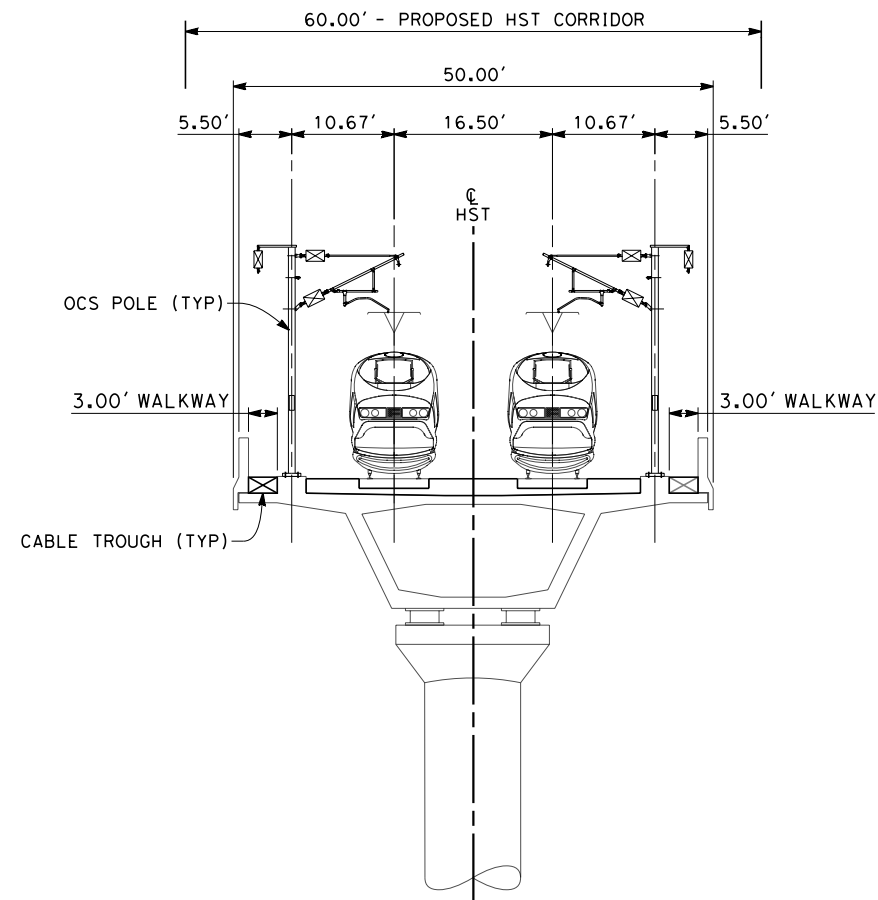
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**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L2  
 CROSS SECTIONS

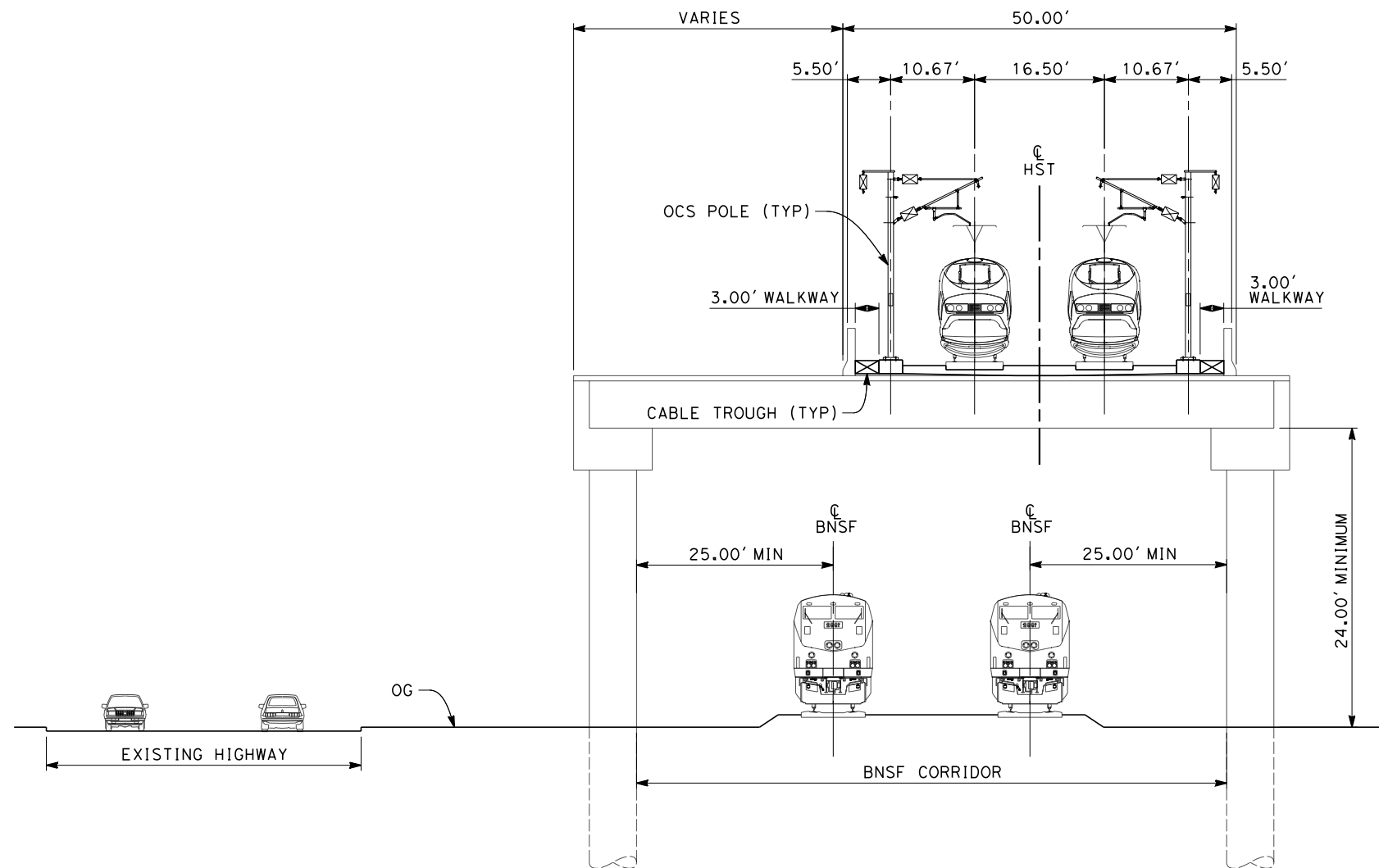
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HSR 06-0003  
 DRAWING NO.  
CB3551  
 SCALE  
AS SHOWN  
 SHEET NO.  
10 OF 13

- NOTES:  
 1. TRACKFORM SHOWN IS INDICATIVE  
 2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 3**

TWIN TRACKS - AERIAL STRUCTURE  
 STA 5214+40 THROUGH STA 5270+80  
 STA 5283+00 THROUGH STA 5299+40



**SECTION 4**

TWIN TRACKS - ELEVATED SLAB OVER BNSF  
 STA 5270+80 THROUGH STA 5275+40



5/12/2011 4:51:56 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\NHSR 15% Design\L2\FB-CB-3552-L2.dgn paul.tonkin

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
J. WALKER  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**

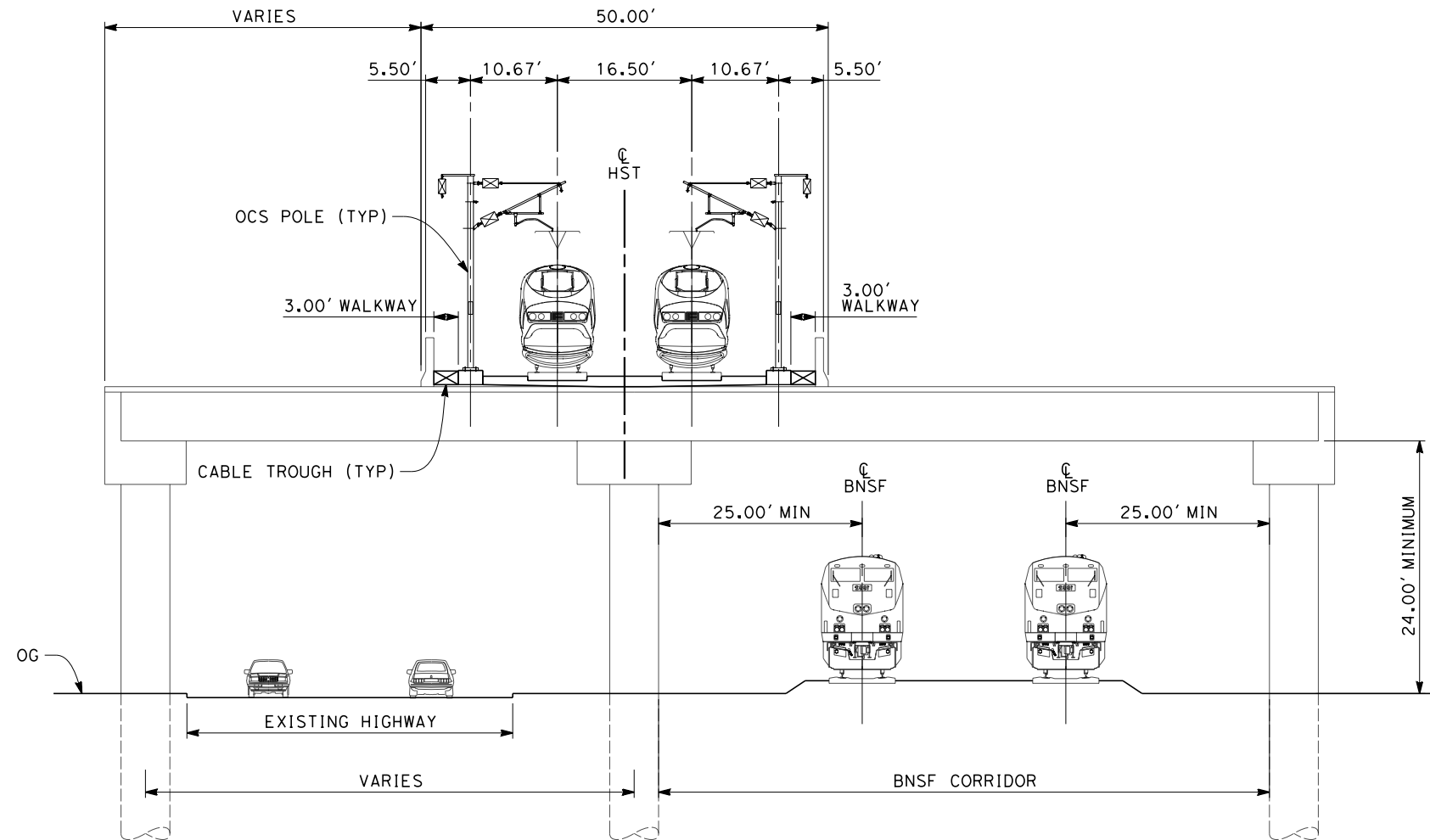


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L2  
 CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB3552  
 SCALE  
AS SHOWN  
 SHEET NO.  
11 OF 13



- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 5**

TWIN TRACKS - ELEVATED SLAB OVER HIGHWAY AND BNSF  
 STA 5275+40 THROUGH STA 5278+07



5/12/2011 4:51:58 PM 0:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\L2\FB-CB-3553-L2.dgn paul.tonkin

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
 G. WALKER  
 DRAWN BY  
 J. WALKER  
 CHECKED BY  
 J. LIPSCOMB  
 IN CHARGE  
 A. LUFT  
 DATE  
 05/13/11

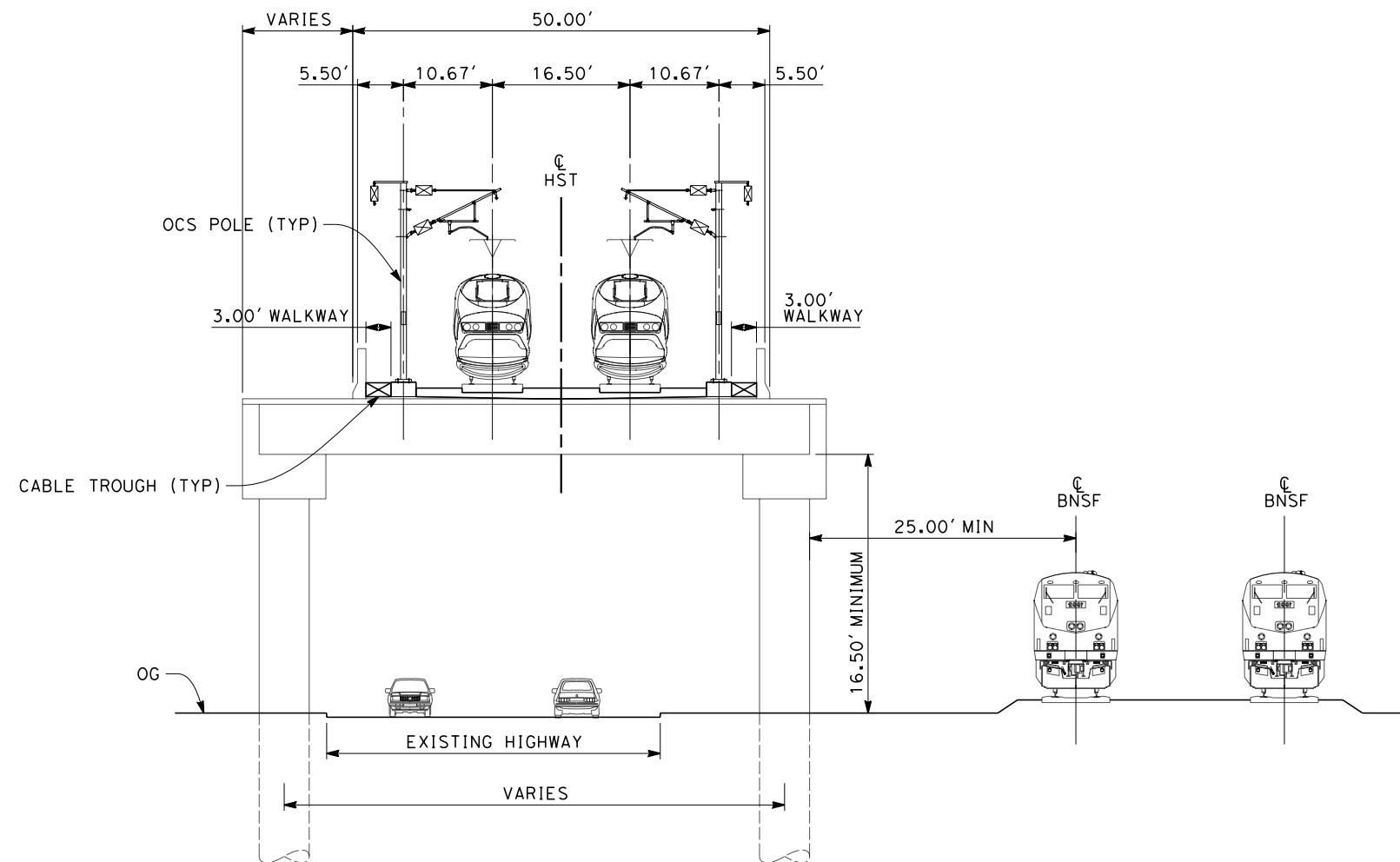
**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L2  
 CROSS SECTIONS

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CB3553  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 12 OF 13

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 6**

TWIN TRACKS - ELEVATED SLAB OVER HIGHWAY  
 STA 5278+07 THROUGH STA 5283+00



5/12/2011 4:52:01 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\L2\FB-CB-3554-L2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
J. WALKER  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**

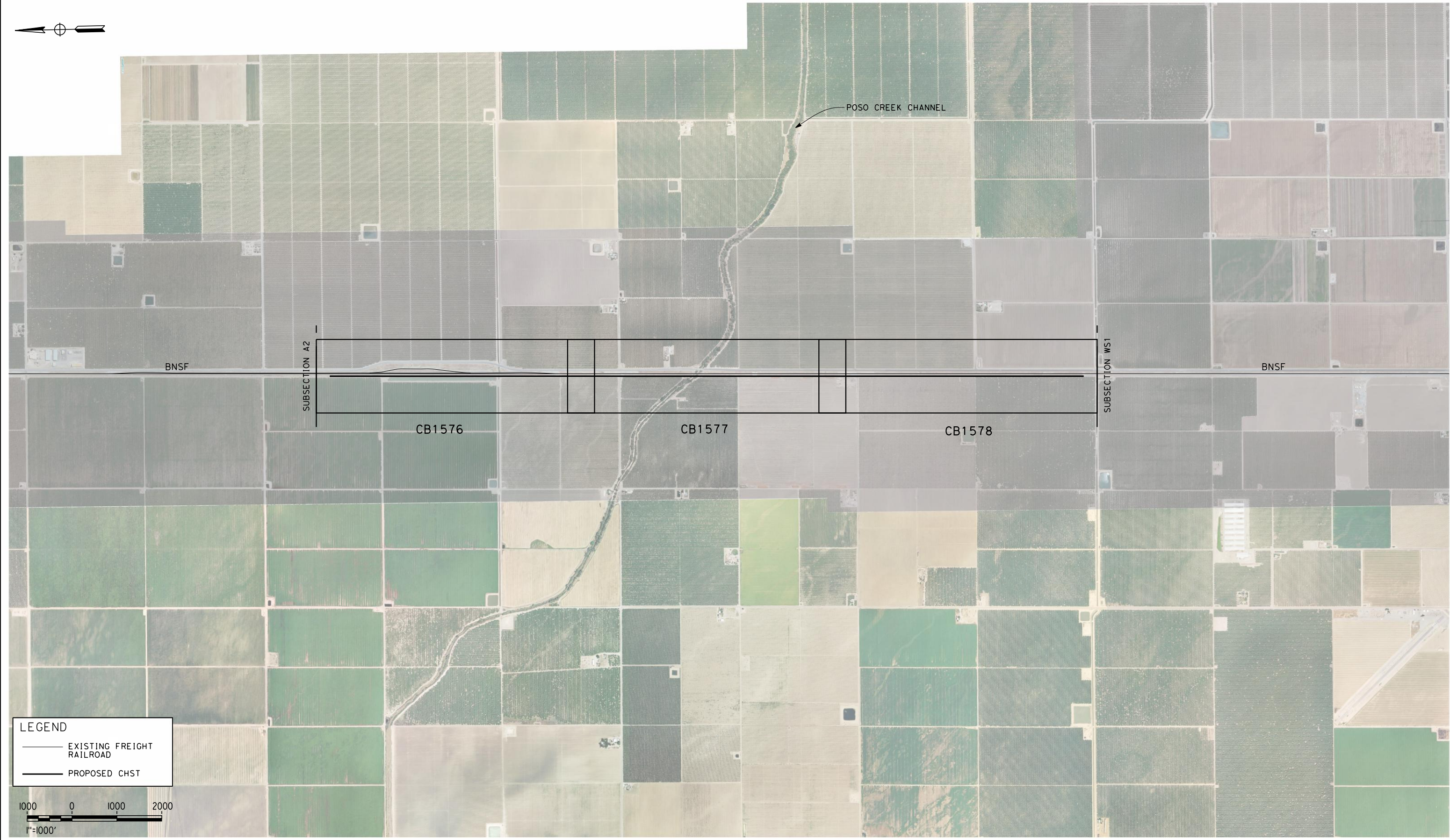
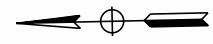


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L2  
 CROSS SECTIONS

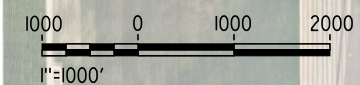
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HSR 06-0003  
 DRAWING NO.  
CB3554  
 SCALE  
AS SHOWN  
 SHEET NO.  
13 OF 13



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**LEGEND**  
 ——— EXISTING FREIGHT RAILROAD  
 ——— PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
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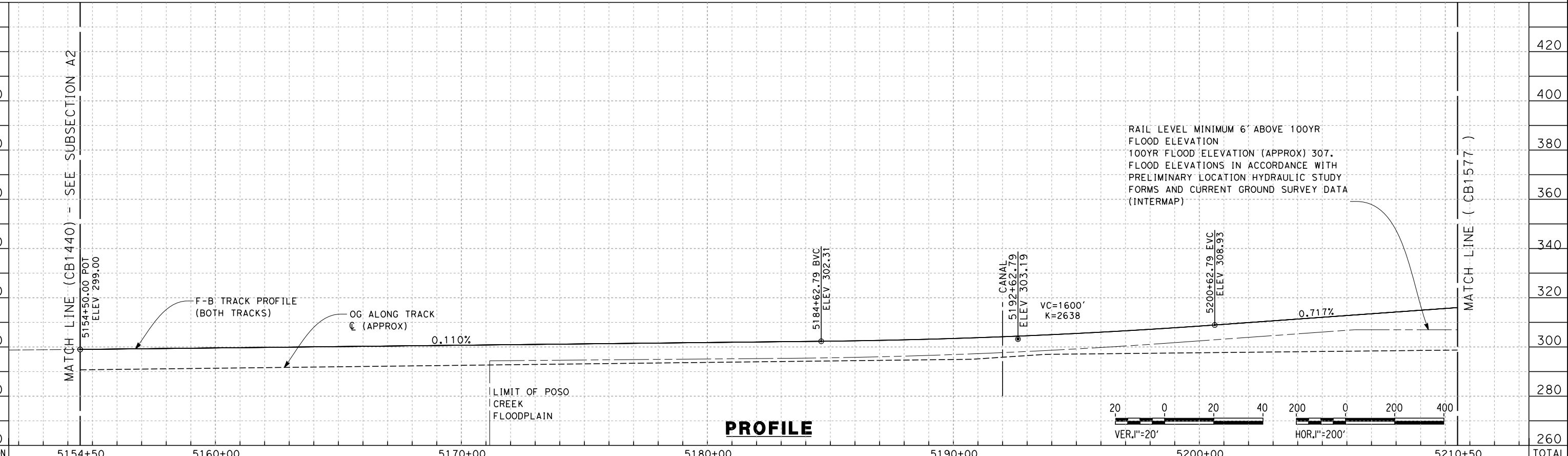
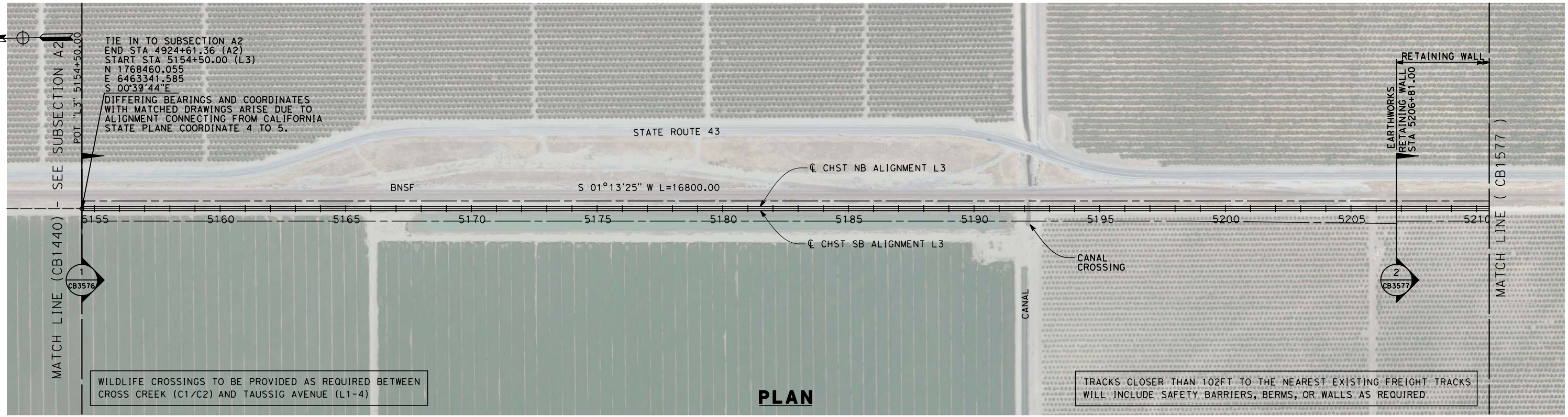


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L3  
 STA. 5154+50 TO 5322+50  
 KEY MAP

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1575  
 SCALE  
AS SHOWN  
 SHEET NO.  
1 OF 7



frank.palermo 7/18/2011 4:22:24 PM 0:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\Sheets\Rail\HSR 15% Design\3\FB-CB-1576-L3.dgn



STATION	5154+50	5160+00	5170+00	5180+00	5190+00	5200+00	5210+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER

DRAWN BY  
A. DEAN

CHECKED BY  
J. LIPSCOMB

IN CHARGE  
A. LUFT

DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

POSO CREEK SUBSECTION  
ALIGNMENT L3  
STA. 5154+50 TO 5210+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003

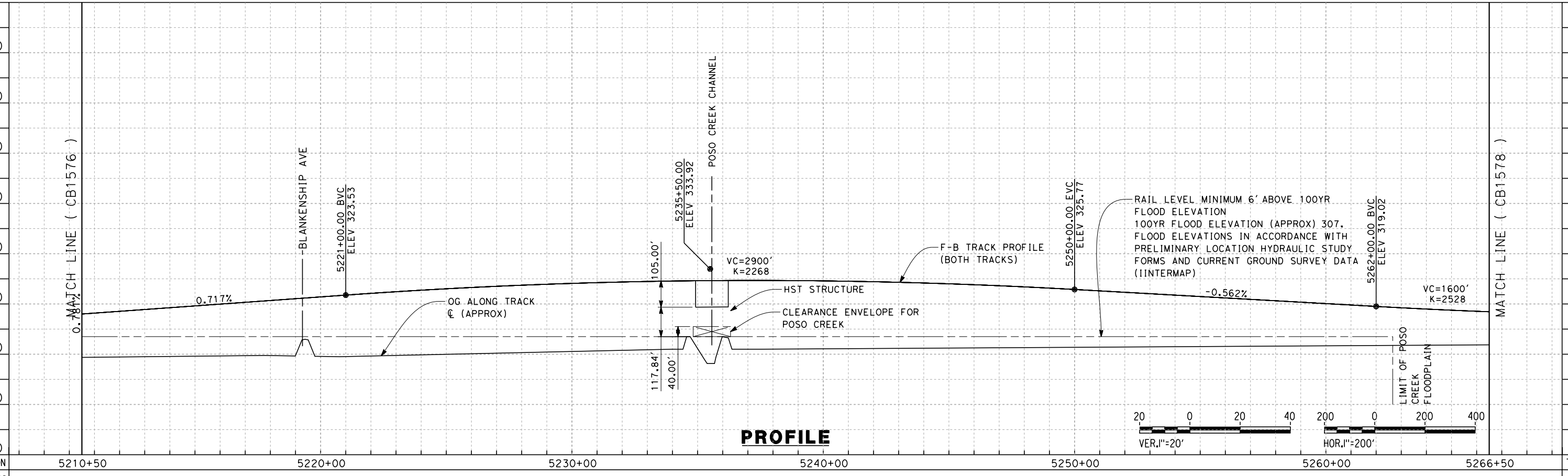
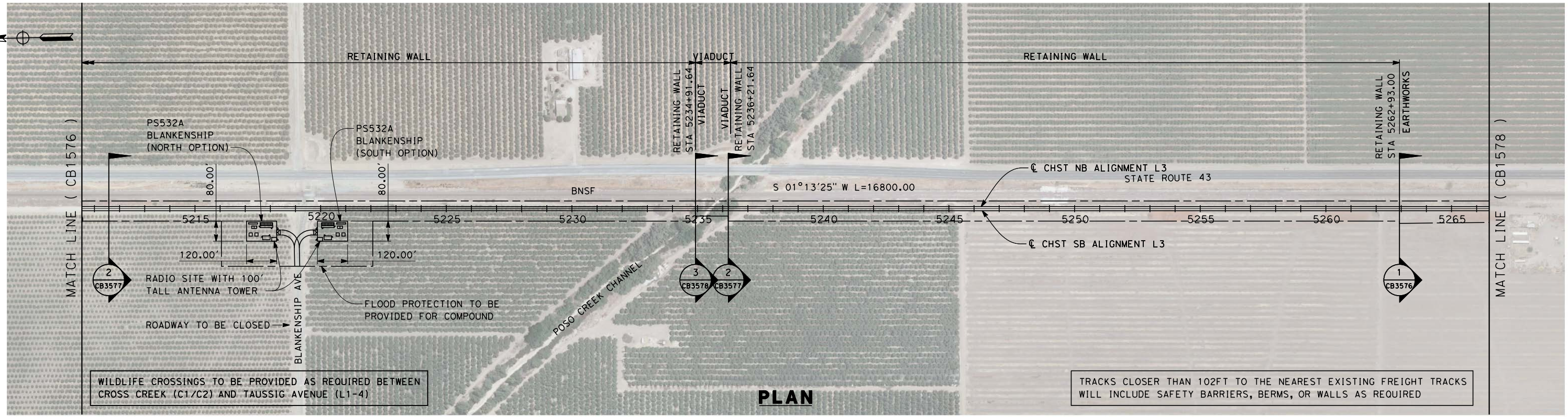
DRAWING NO.  
CB1576

SCALE  
AS SHOWN

SHEET NO.  
2 OF 7



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

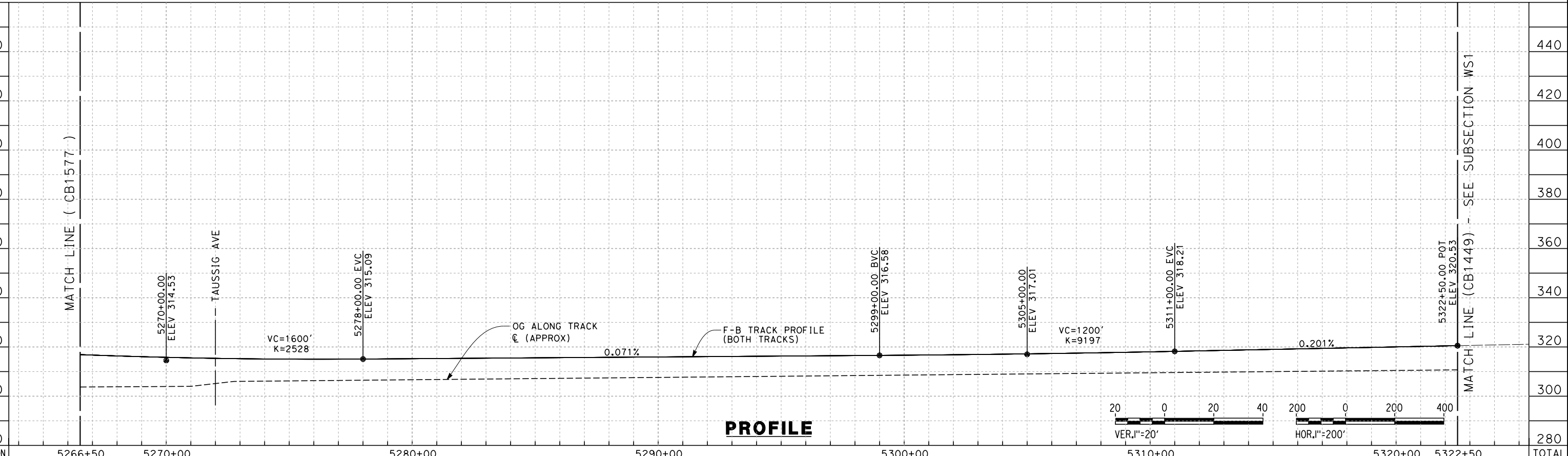
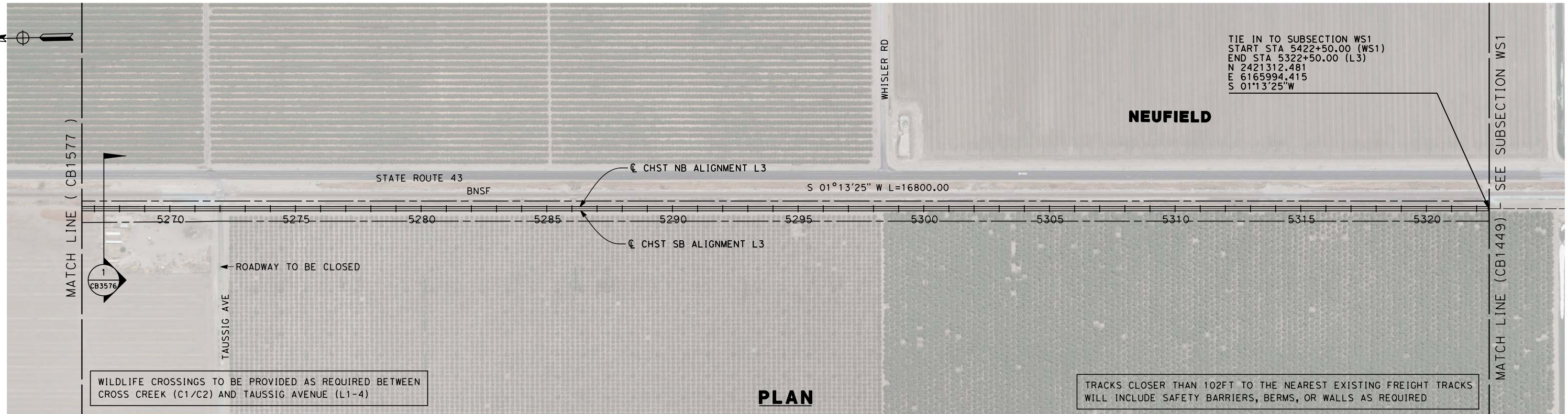


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L3  
 STA. 5210+50 TO 5266+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1577  
 SCALE  
AS SHOWN  
 SHEET NO.  
3 OF 7



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STATION	5266+50	5270+00	5280+00	5290+00	5300+00	5310+00	5320+00	5322+50	TOTAL
Exc									
Emb									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
A. DEAN  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

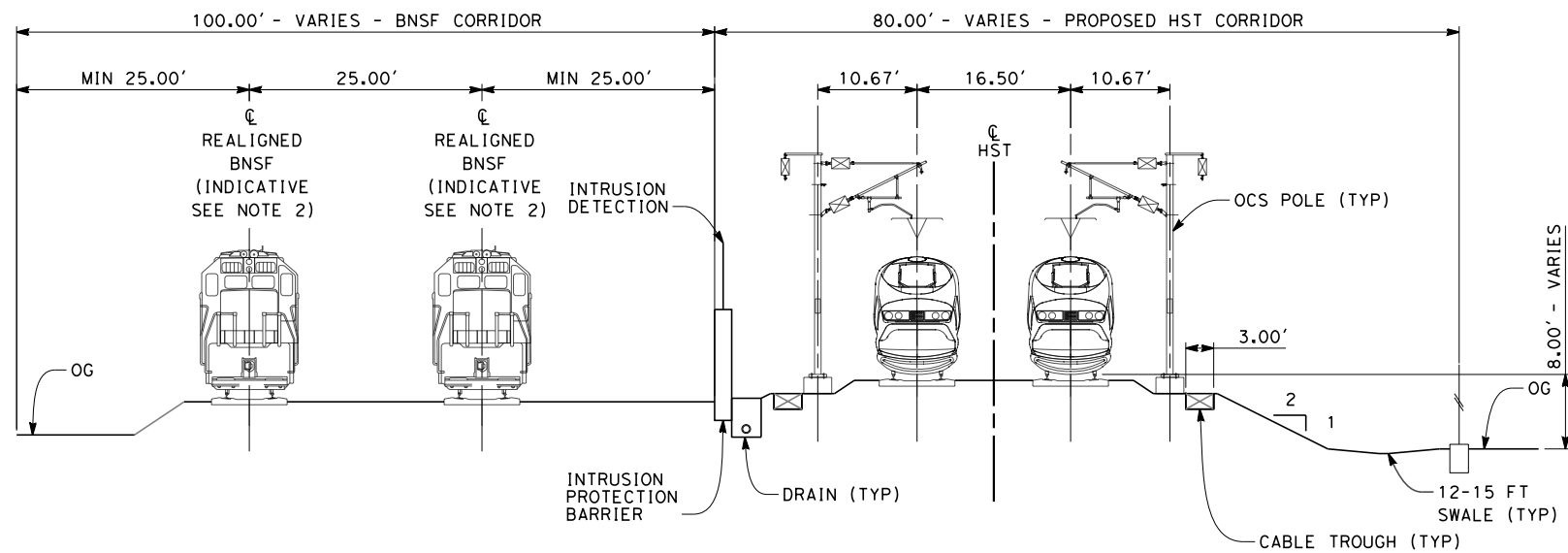


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L3  
 STA. 5266+50 TO 5322+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1578  
 SCALE  
AS SHOWN  
 SHEET NO.  
4 OF 7

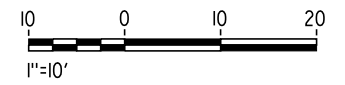


- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  3. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 1**

TWIN TRACKS ADJACENT TO BNSF - EMBANKMENT  
 STA 5154+50 THROUGH STA 5206+81  
 STA 5262+93 THROUGH STA 5322+50



f:\frank.palermo\7/25/2011 9:58:52 AM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\L3\FB-CB-3576-L3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
J. WALKER  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

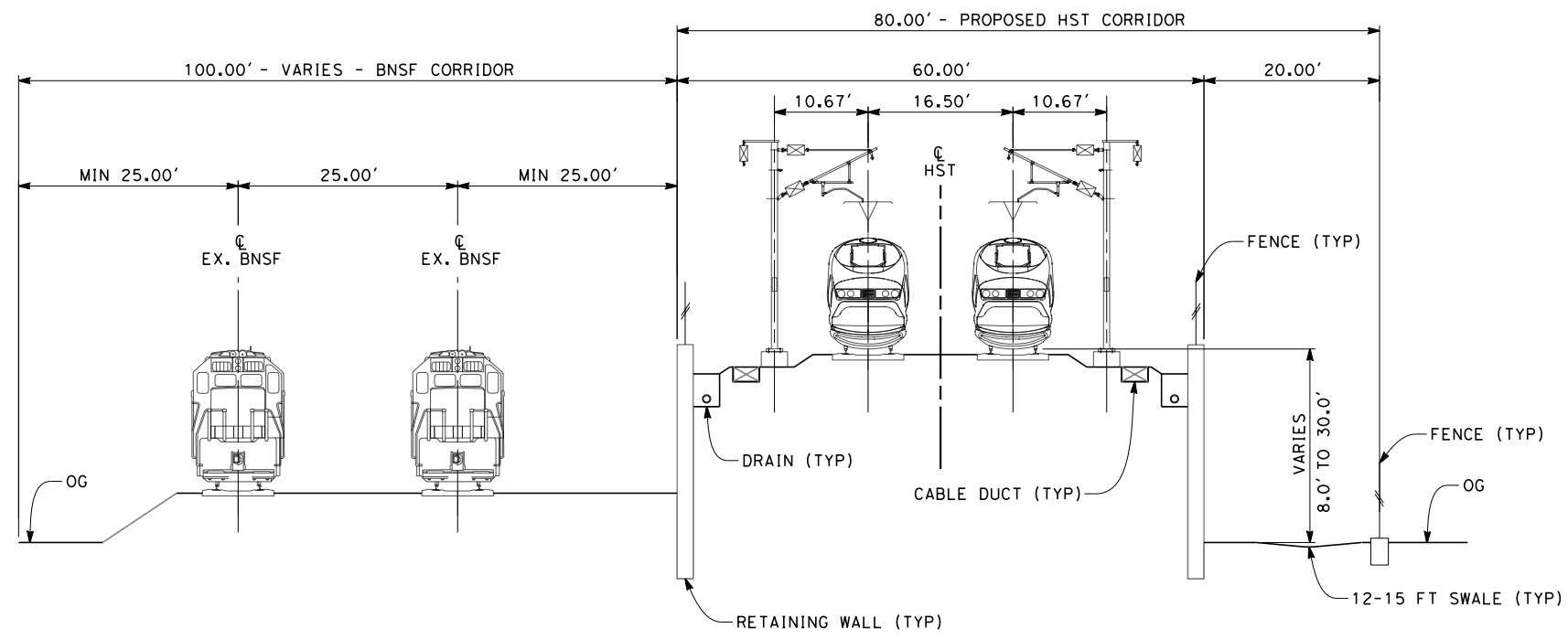
**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L3  
 CROSS SECTIONS

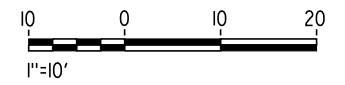
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HSR 06-0003  
 DRAWING NO.  
CB3576  
 SCALE  
AS SHOWN  
 SHEET NO.  
5 OF 7

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 2**

TWIN TRACKS ADJACENT TO BNSF - RETAINED EMBANKMENT  
 STA 5206+81 THROUGH STA 5234+91.64  
 STA 5236+21.64 THROUGH STA 5262+93



5/12/2011 5:08:42 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\L3\FB-CB-3577-L3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
J. WALKER  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**

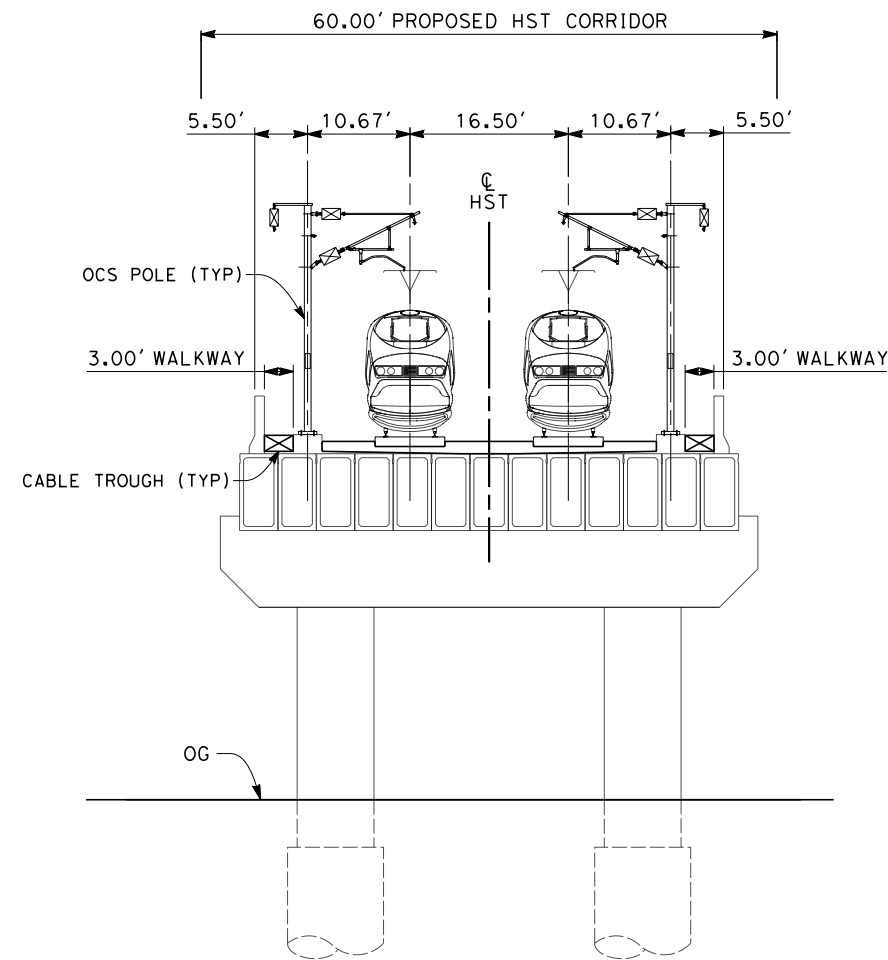


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L3  
 CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB3577  
 SCALE  
AS SHOWN  
 SHEET NO.  
6 OF 7



- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 3**

TWIN TRACKS - BOX GIRDER BRIDGE  
 STA 5234+91.64 THROUGH STA 5236+21.64



5/12/2011 5:08:44 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\L3\FB-CB-3578-L3.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
J. WALKER  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L3  
 CROSS SECTIONS

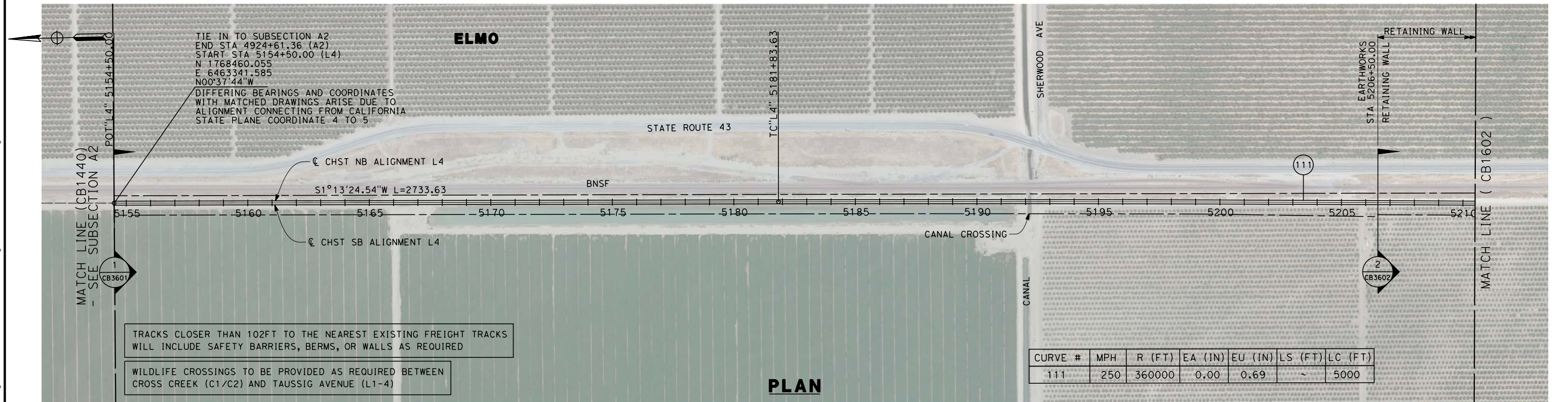
CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB3578  
 SCALE  
AS SHOWN  
 SHEET NO.  
7 OF 7



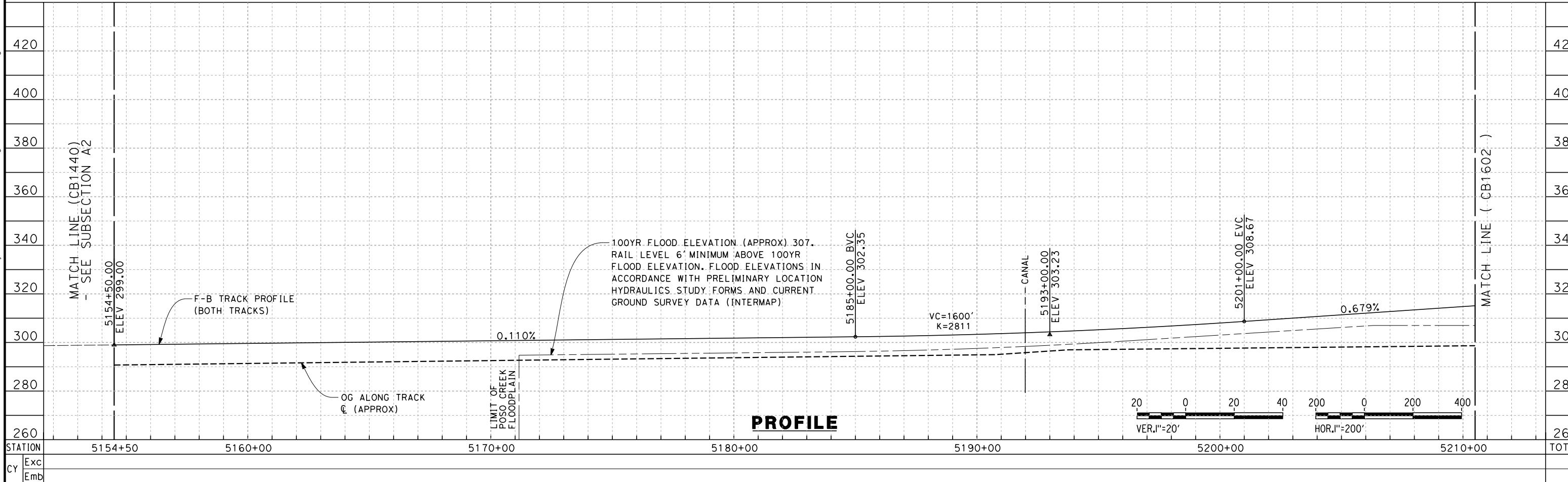




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**PLAN**



**PROFILE**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**G. WALKER**  
 DRAWN BY  
**A. DEAN**  
 CHECKED BY  
**J. LIPSCOMB**  
 IN CHARGE  
**A. LUFT**  
 DATE  
**05/13/11**

**RECORD SET 15%  
 DESIGN SUBMISSION**  
**NOT FOR  
 CONSTRUCTION**

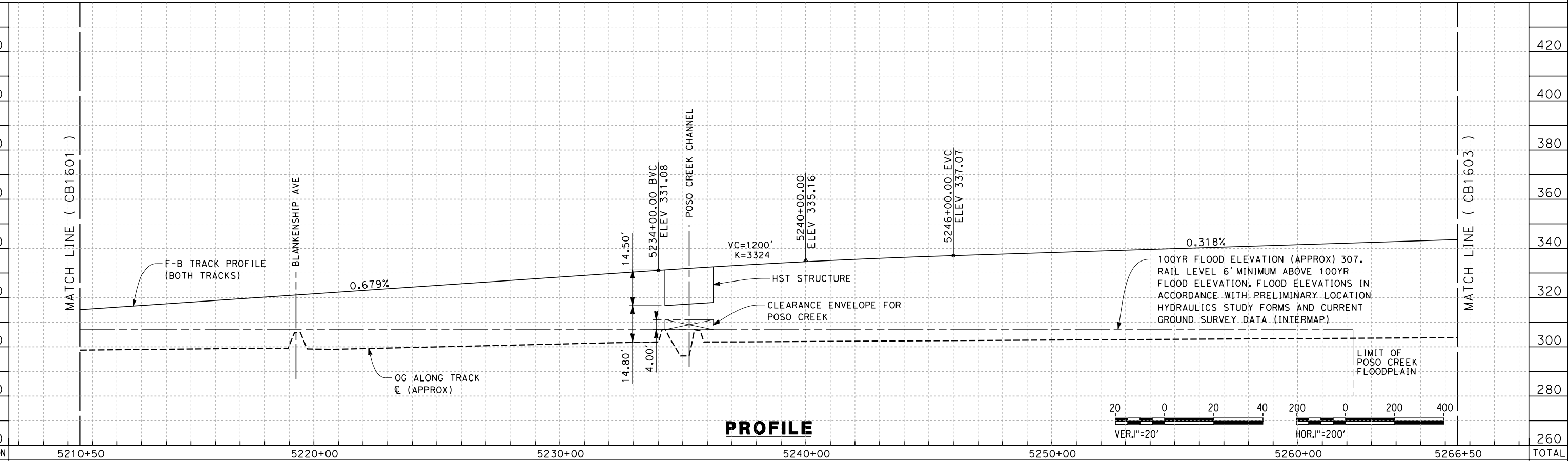
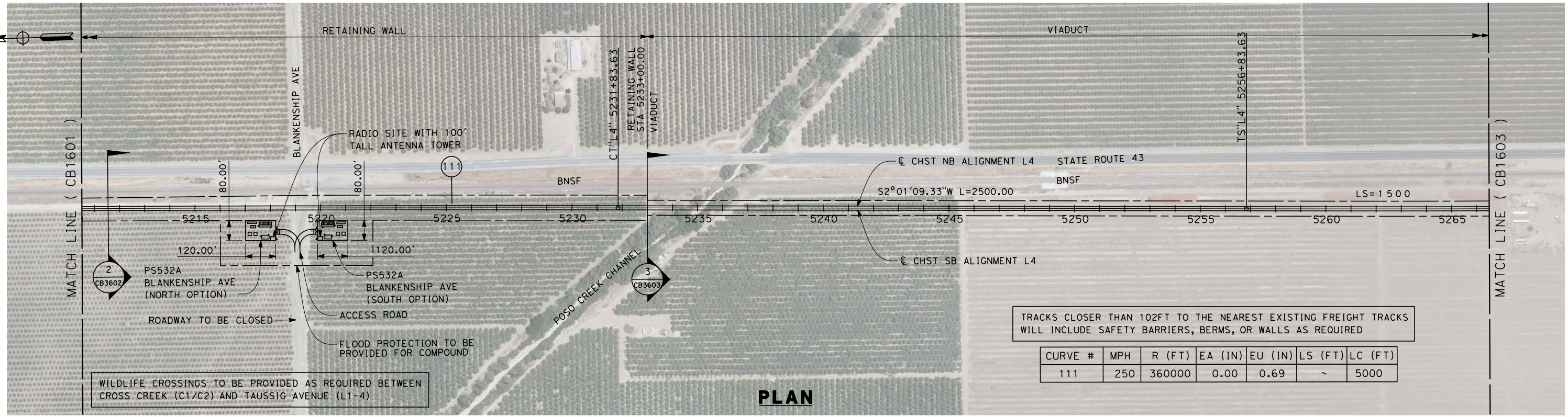


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L4  
 STA. 5154+50 TO 5210+50  
 PLAN AND PROFILE

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CB1601  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 2 OF 16



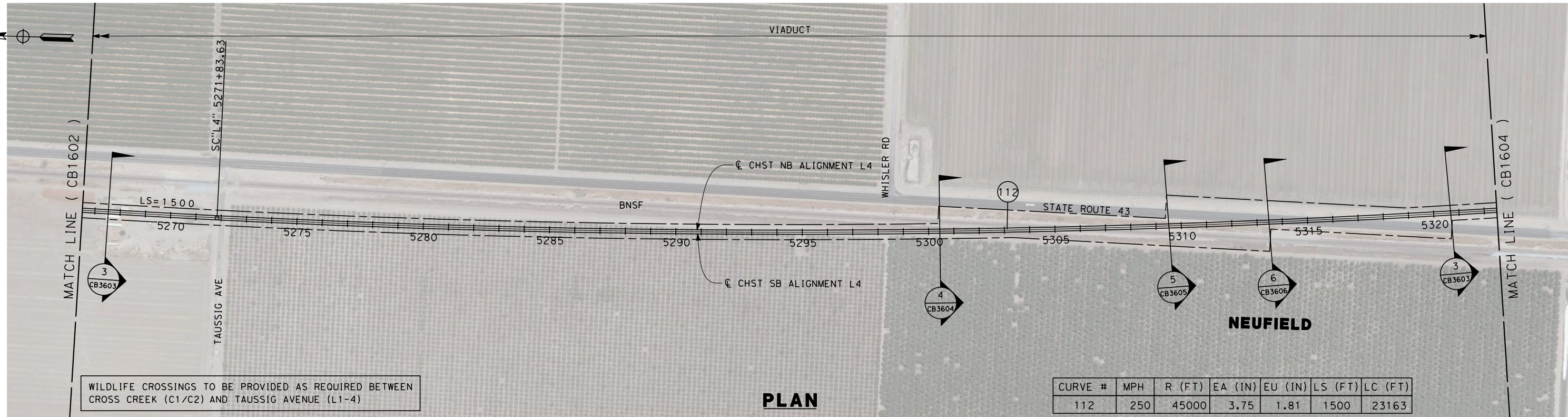
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STATION 5210+50      5220+00      5230+00      5240+00      5250+00      5260+00      5266+50      TOTAL	Exc Emb						
DESIGNED BY G. WALKER DRAWN BY A. DEAN CHECKED BY J. LIPSCOMB IN CHARGE A. LUFT DATE 06/30/11		<b>RECORD SET 15% DESIGN SUBMISSION</b>  <b>NOT FOR CONSTRUCTION</b>					
<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD</b> POSO CREEK SUBSECTION ALIGNMENT L4 STA. 5210+50 TO 5266+50 PLAN AND PROFILE						CONTRACT NO. HSR 06-0003 DRAWING NO. CB1602 SCALE AS SHOWN SHEET NO. 3 OF 16	



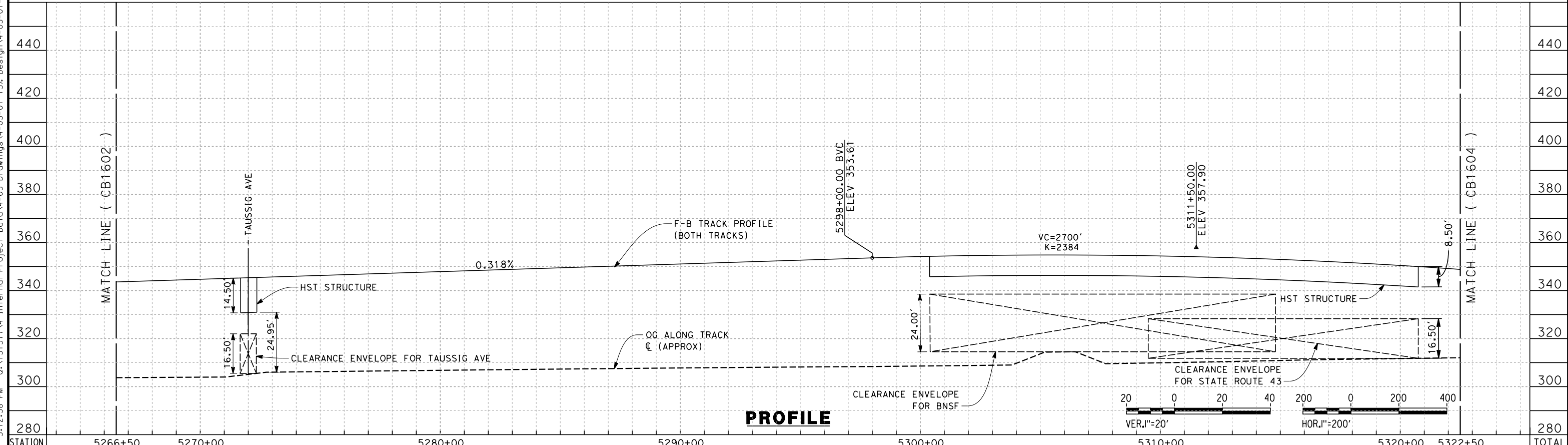
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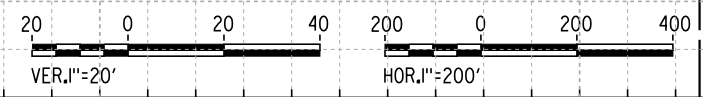
WILDLIFE CROSSINGS TO BE PROVIDED AS REQUIRED BETWEEN CROSS CREEK (C1/C2) AND TAUSSIG AVENUE (L1-4)

**PLAN**

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
112	250	45000	3.75	1.81	1500	23163



**PROFILE**



STATION	5266+50	5270+00	5280+00	5290+00	5300+00	5310+00	5320+00	5322+50	TOTAL
Exc									
Emb									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

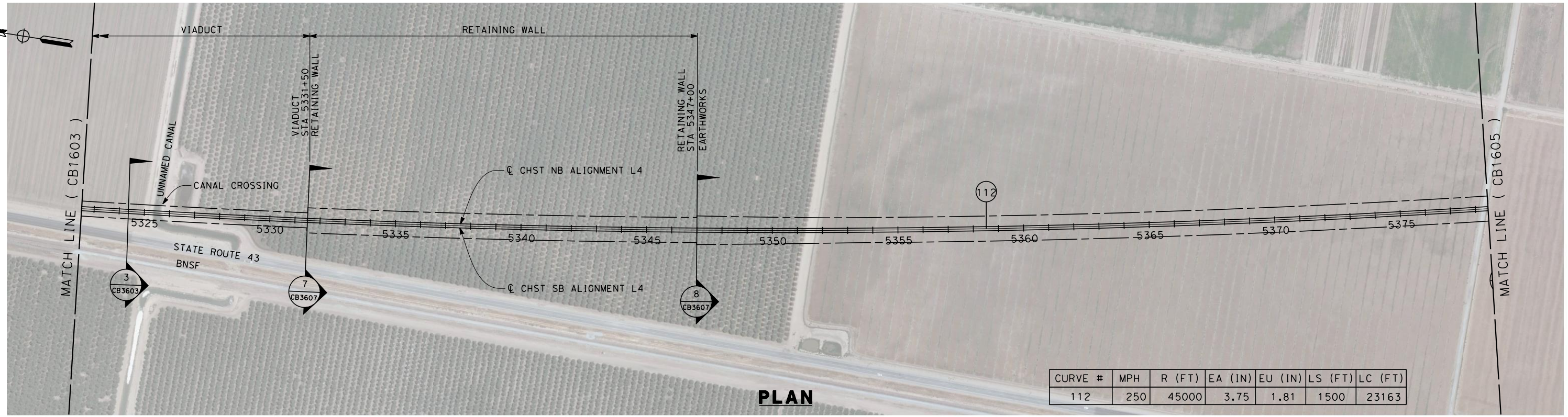


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
POSO CREEK SUBSECTION  
ALIGNMENT L4  
STA. 5266+50 TO 5322+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1603  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 16

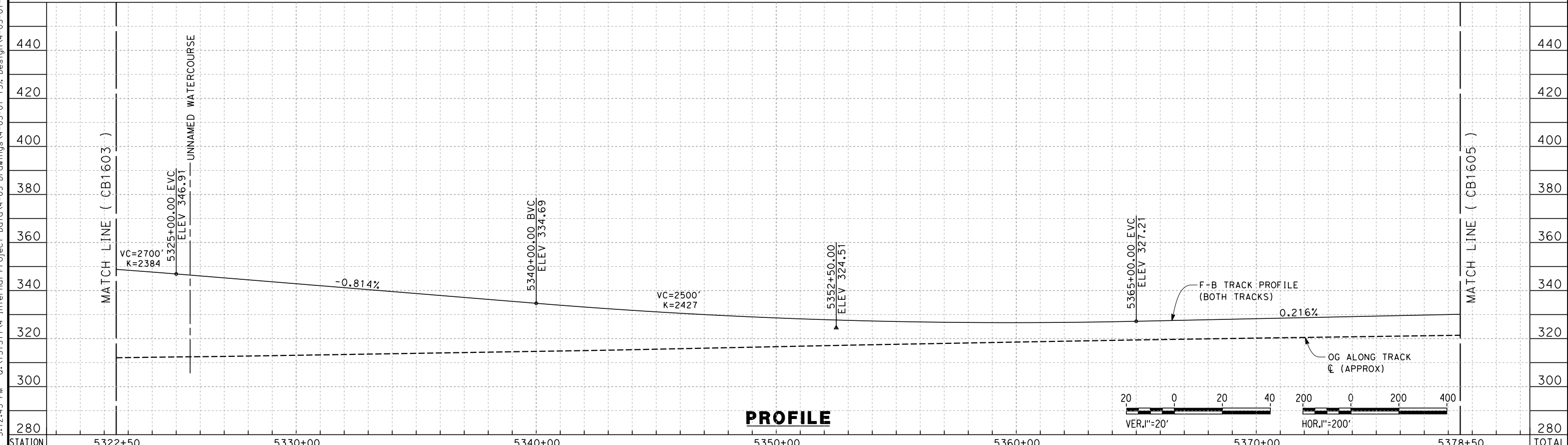


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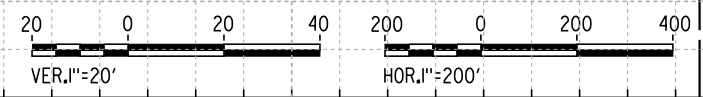


CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
112	250	45000	3.75	1.81	1500	23163

**PLAN**



**PROFILE**

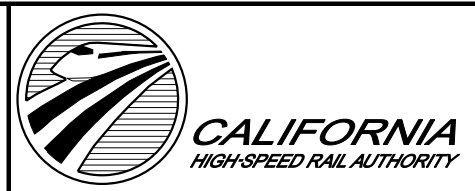


STATION	5322+50	5330+00	5340+00	5350+00	5360+00	5370+00	5378+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

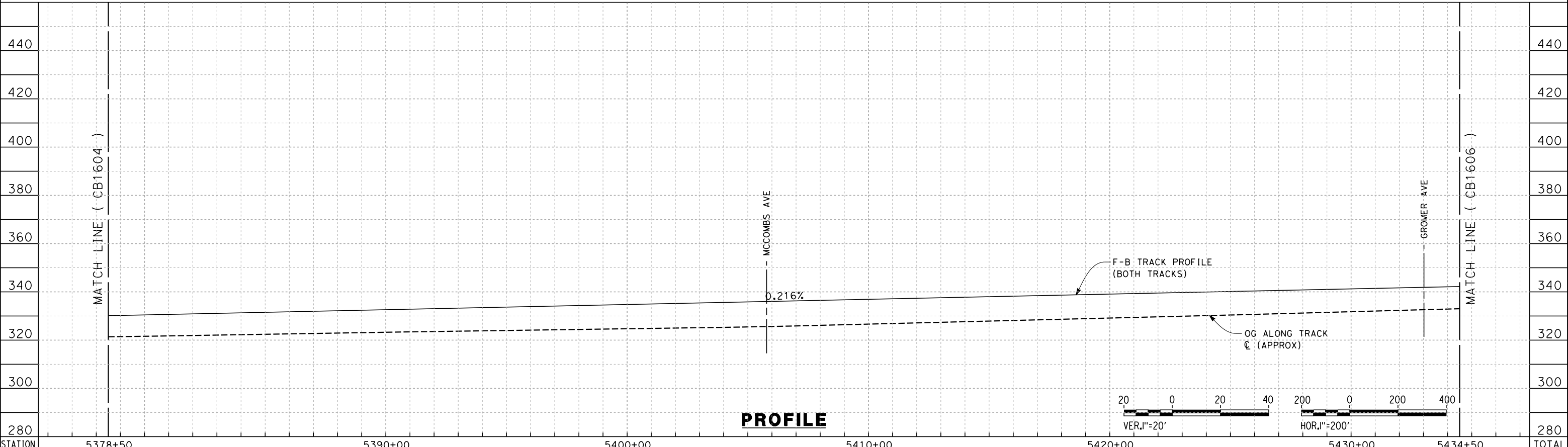
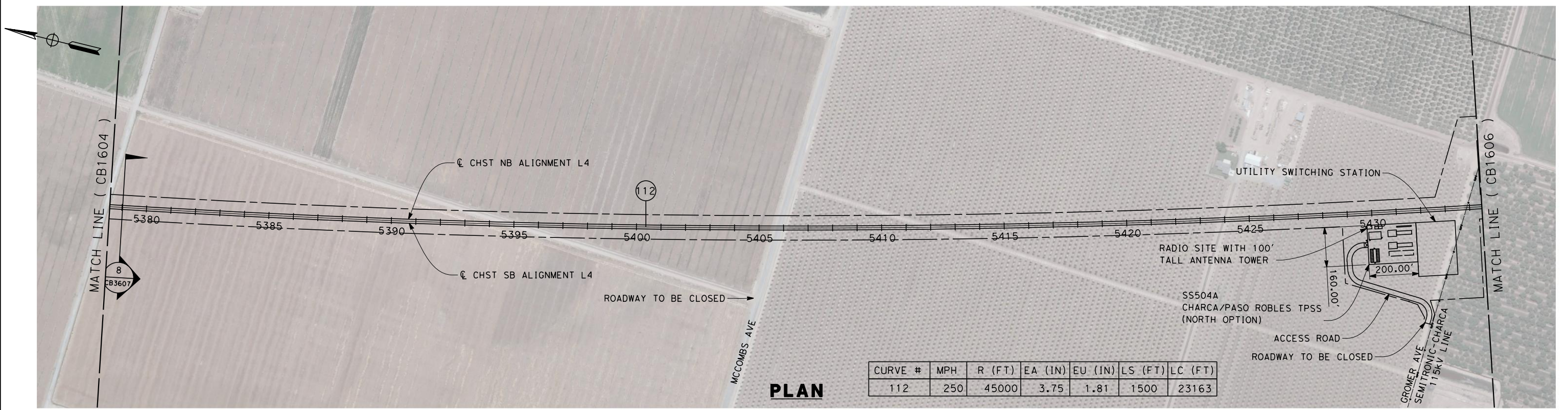


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
POSO CREEK SUBSECTION  
ALIGNMENT L4  
STA. 5322+50 TO 5378+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1604  
SCALE  
AS SHOWN  
SHEET NO.  
5 OF 16



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STATION	5378+50	5390+00	5400+00	5410+00	5420+00	5430+00	5434+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



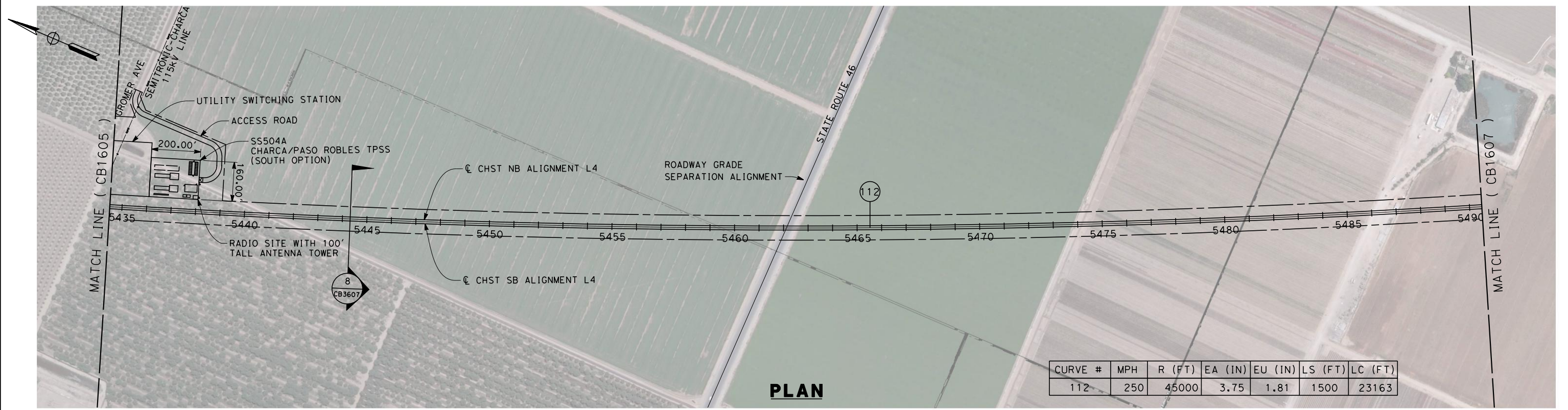
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

POSO CREEK SUBSECTION  
ALIGNMENT L4  
STA. 5378+50 TO 5434+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1605  
SCALE  
AS SHOWN  
SHEET NO.  
6 OF 16

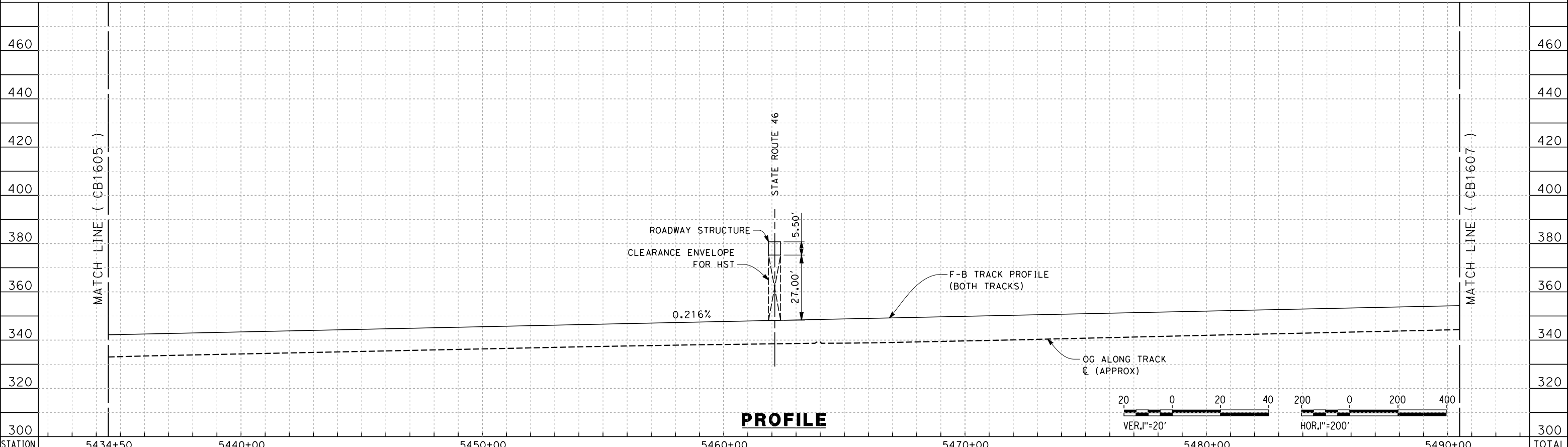


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CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
112	250	45000	3.75	1.81	1500	23163

**PLAN**



**PROFILE**

STATION	5434+50	5440+00	5450+00	5460+00	5470+00	5480+00	5490+00	TOTAL
Exc								
Emb								

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



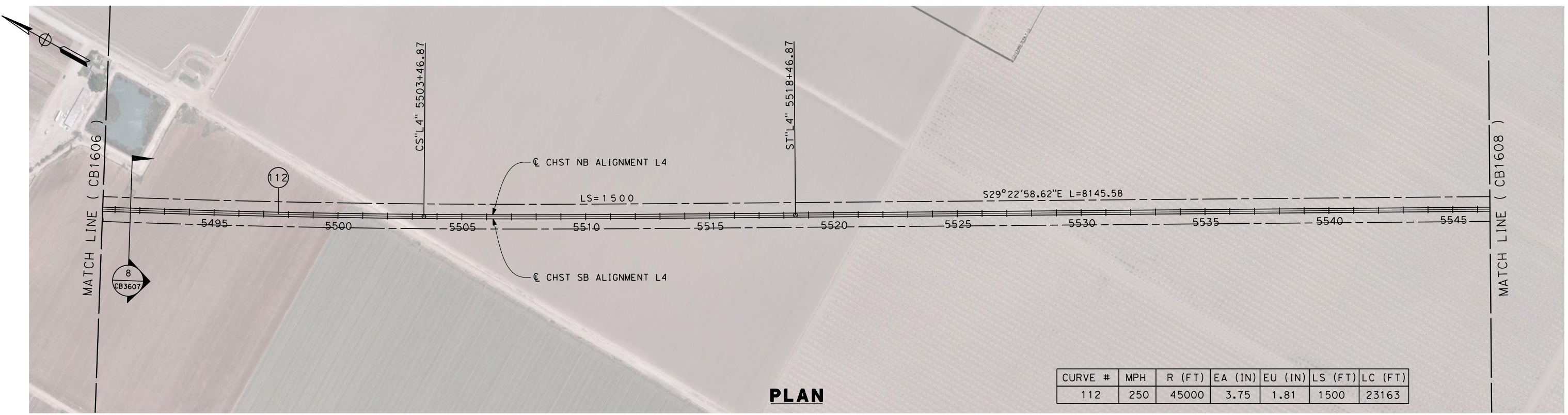
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
POSO CREEK SUBSECTION  
ALIGNMENT L4  
STA. 5434+50 TO 5490+50  
PLAN AND PROFILE

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

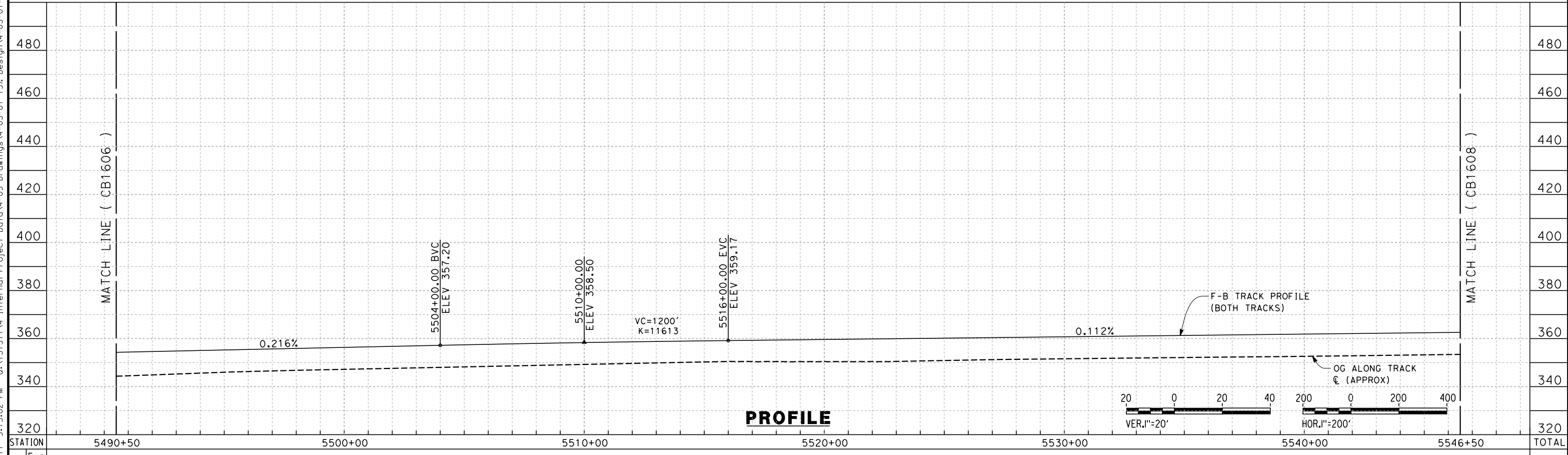
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CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
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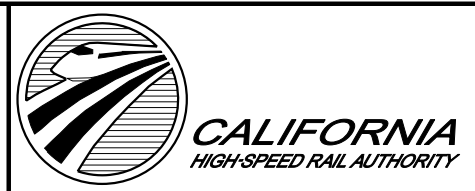


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
A. DEAN  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

POSO CREEK SUBSECTION  
ALIGNMENT L4  
STA. 5490+50 TO 5546+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1607  
SCALE  
AS SHOWN  
SHEET NO.  
8 OF 16

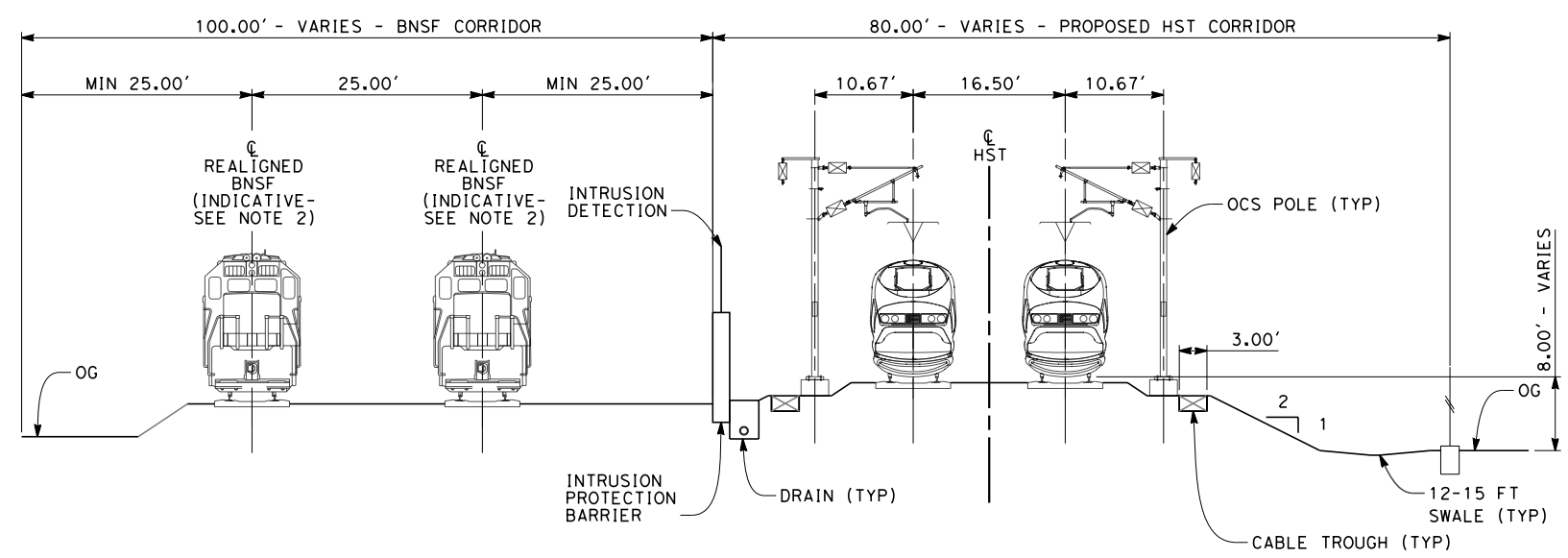






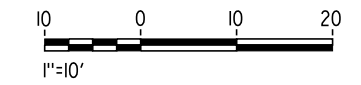
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- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  3. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 1**

TWIN TRACKS ADJACENT TO BNSF - EMBANKMENT  
 STA 5154+50 THROUGH STA 5206+50



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
 G. WALKER  
 DRAWN BY  
 J. WALKER  
 CHECKED BY  
 J. LIPSCOMB  
 IN CHARGE  
 A. LUFT  
 DATE  
 05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**

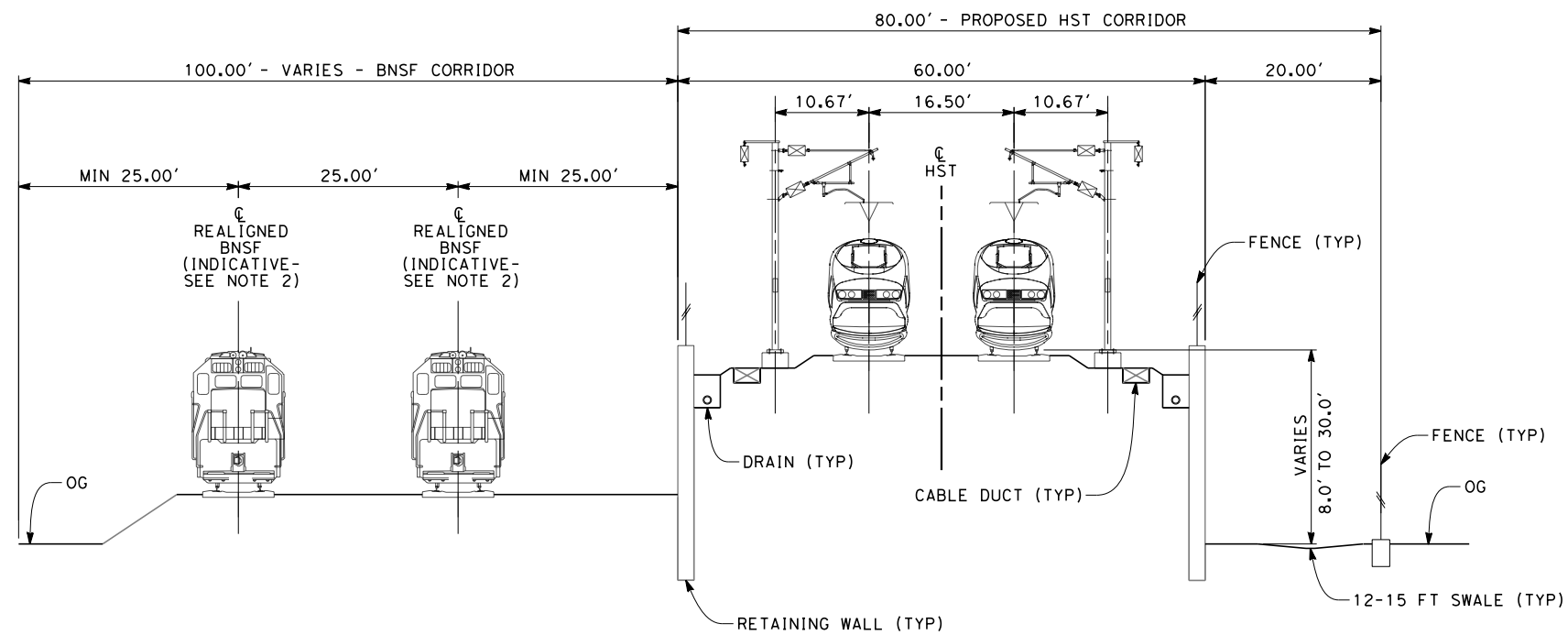


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L4  
 CROSS SECTIONS

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CB3601  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 10 OF 16

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- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  3. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 2**

TWIN TRACKS ADJACENT TO BNSF - RETAINED EMBANKMENT  
 STA 5206+50 THROUGH STA 5233+00



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
 G. WALKER  
 DRAWN BY  
 J. WALKER  
 CHECKED BY  
 J. LIPSCOMB  
 IN CHARGE  
 A. LUFT  
 DATE  
 05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**

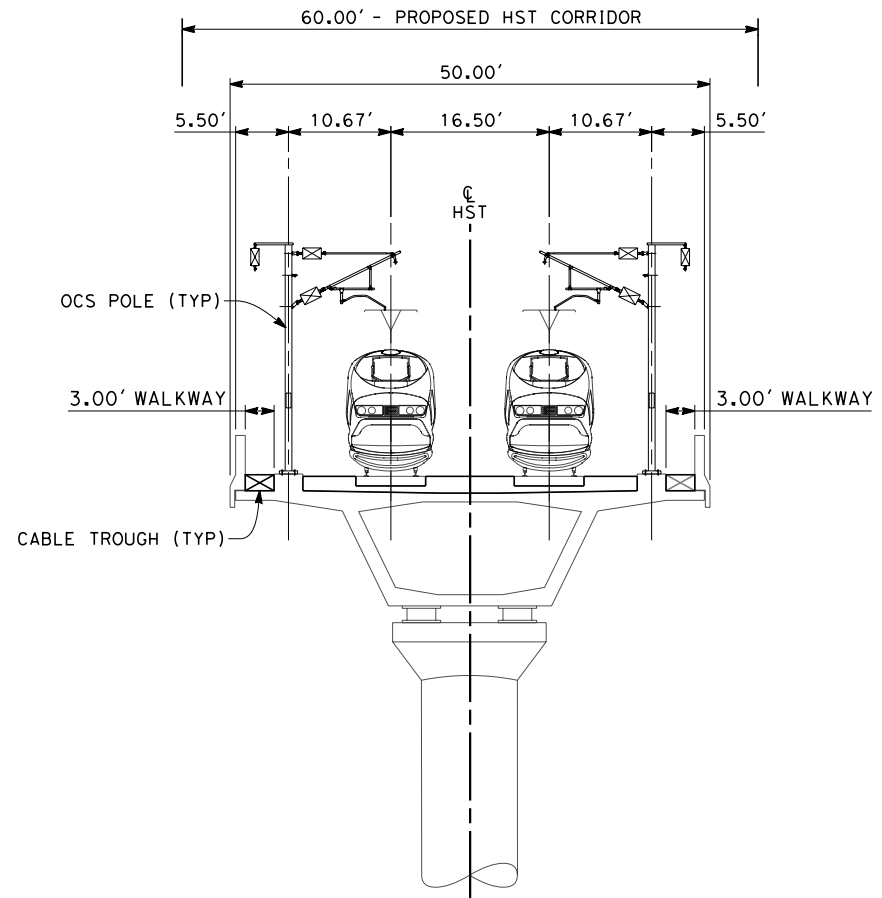


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L4  
 CROSS SECTIONS

CONTRACT NO.  
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 DRAWING NO.  
 CB3602  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 11 OF 16

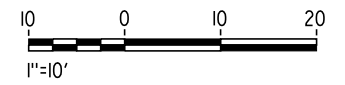


- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 3**

TWIN TRACKS - AERIAL STRUCTURE  
 STA 5233+00 THROUGH STA 5300+40  
 STA 5320+70 THROUGH STA 5331+50



5/12/2011 5:13:30 PM 0:\1315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\L4\FB-CB-3603-L4.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
I. WALKER  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

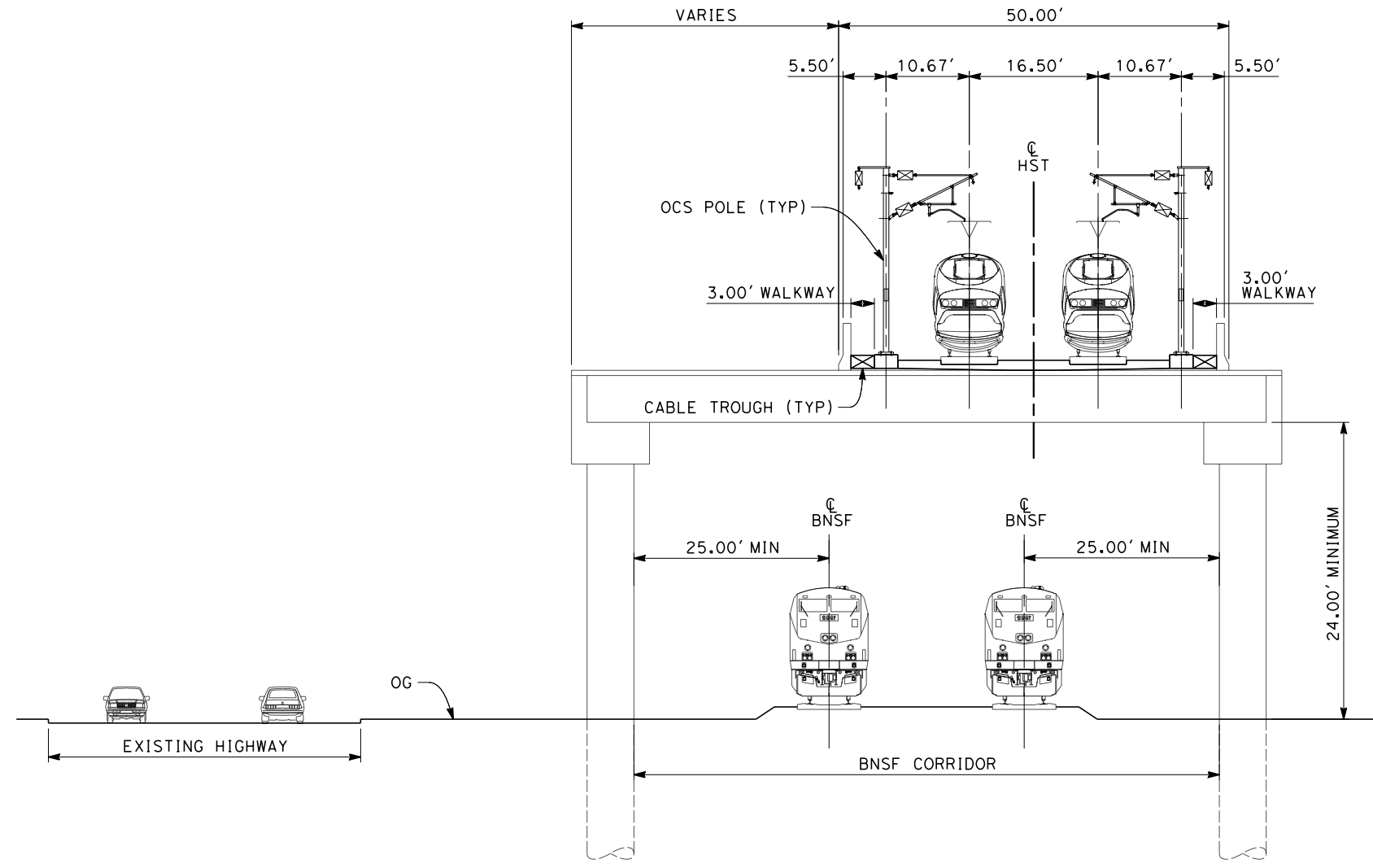
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**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L4  
 CROSS SECTIONS

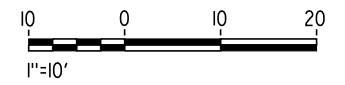
CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB3603  
 SCALE  
AS SHOWN  
 SHEET NO.  
12 OF 16

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 4**

TWIN TRACKS - ELEVATED SLAB OVER BNSF  
 STA 5300+40 THROUGH STA 5309+50



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
 DRAWN BY  
J. WALKER  
 CHECKED BY  
J. LIPSCOMB  
 IN CHARGE  
A. LUFT  
 DATE  
05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**

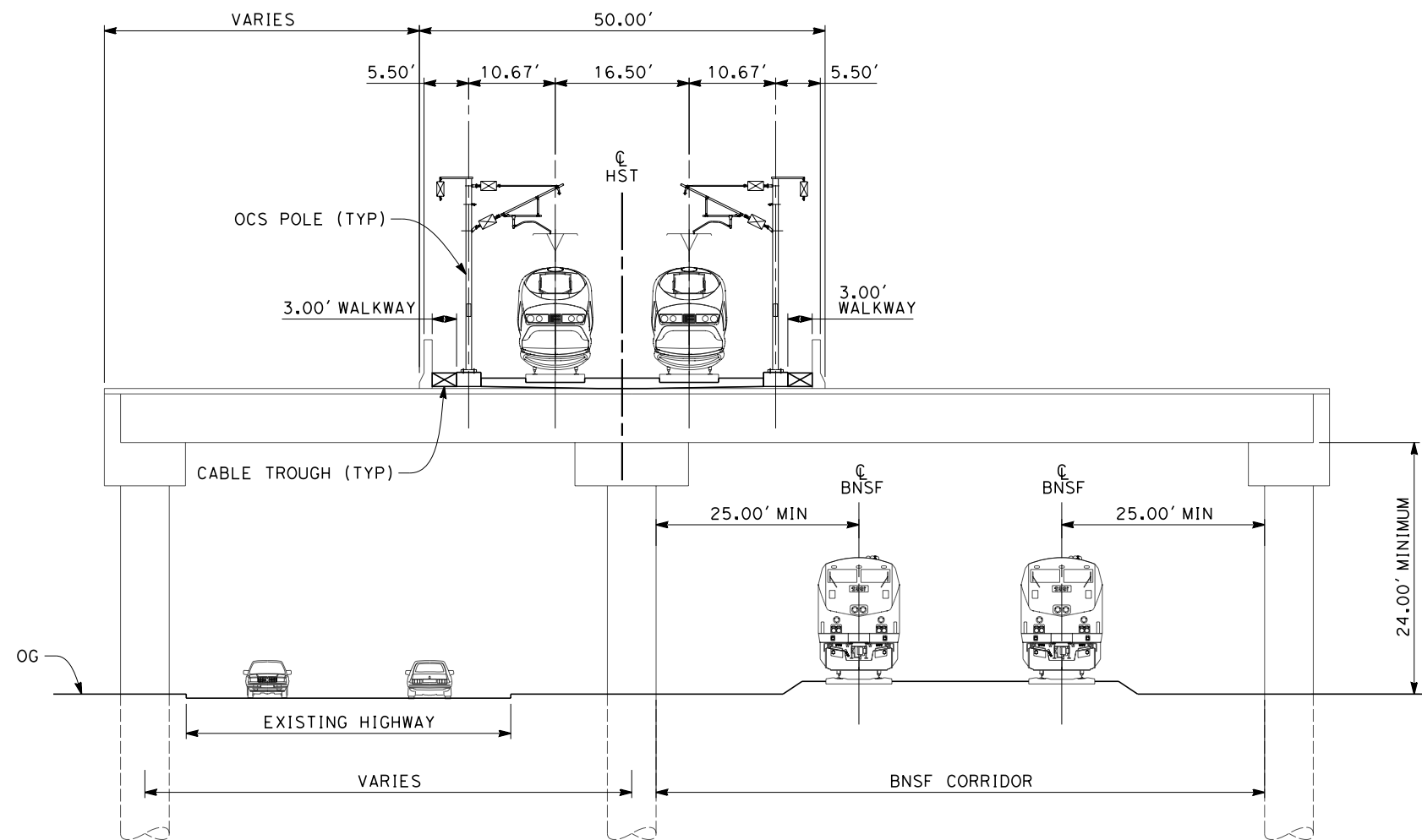


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L4  
 CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB3604  
 SCALE  
AS SHOWN  
 SHEET NO.  
13 OF 16

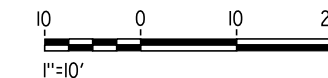


- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 5**

TWIN TRACKS - ELEVATED SLAB OVER HIGHWAY AND BNSF  
 STA 5309+50 THROUGH STA 5313+50



5/12/2011 5:13:40 PM 0:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\4\FB-CB-3605-L4.dgn  
 paul.tonkin

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
 G. WALKER  
 DRAWN BY  
 J. WALKER  
 CHECKED BY  
 J. LIPSCOMB  
 IN CHARGE  
 A. LUFT  
 DATE  
 05/13/11

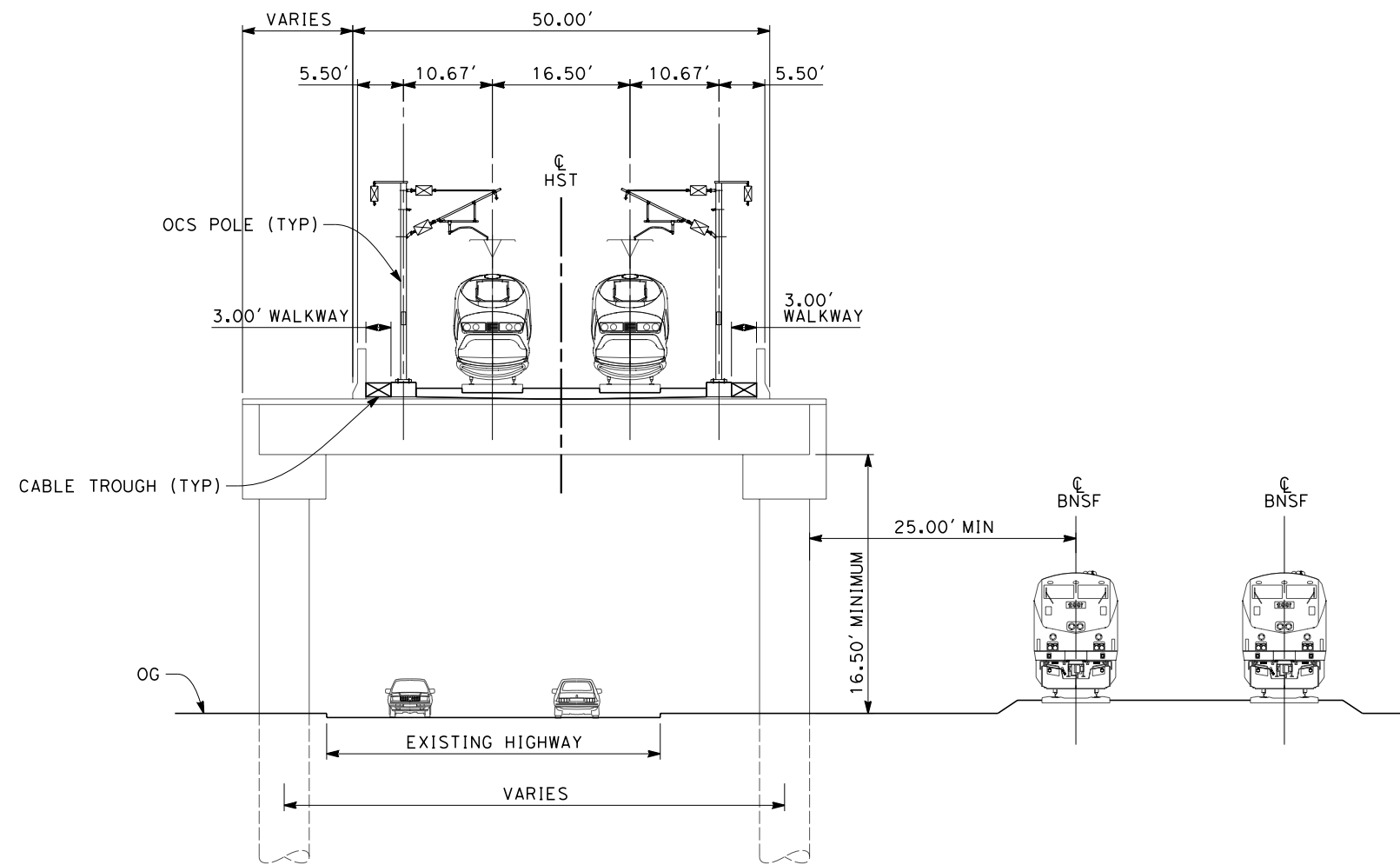
**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L4  
 CROSS SECTIONS

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CB3605  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 14 OF 16

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 6**

TWIN TRACKS - ELEVATED SLAB OVER HIGHWAY  
 STA 5313+50 THROUGH STA 5320+70



5/12/2011 5:13:42 PM 0:\131577\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\4\FB-CB-3606-L4.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
 G. WALKER  
 DRAWN BY  
 J. WALKER  
 CHECKED BY  
 J. LIPSCOMB  
 IN CHARGE  
 A. LUFT  
 DATE  
 05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**

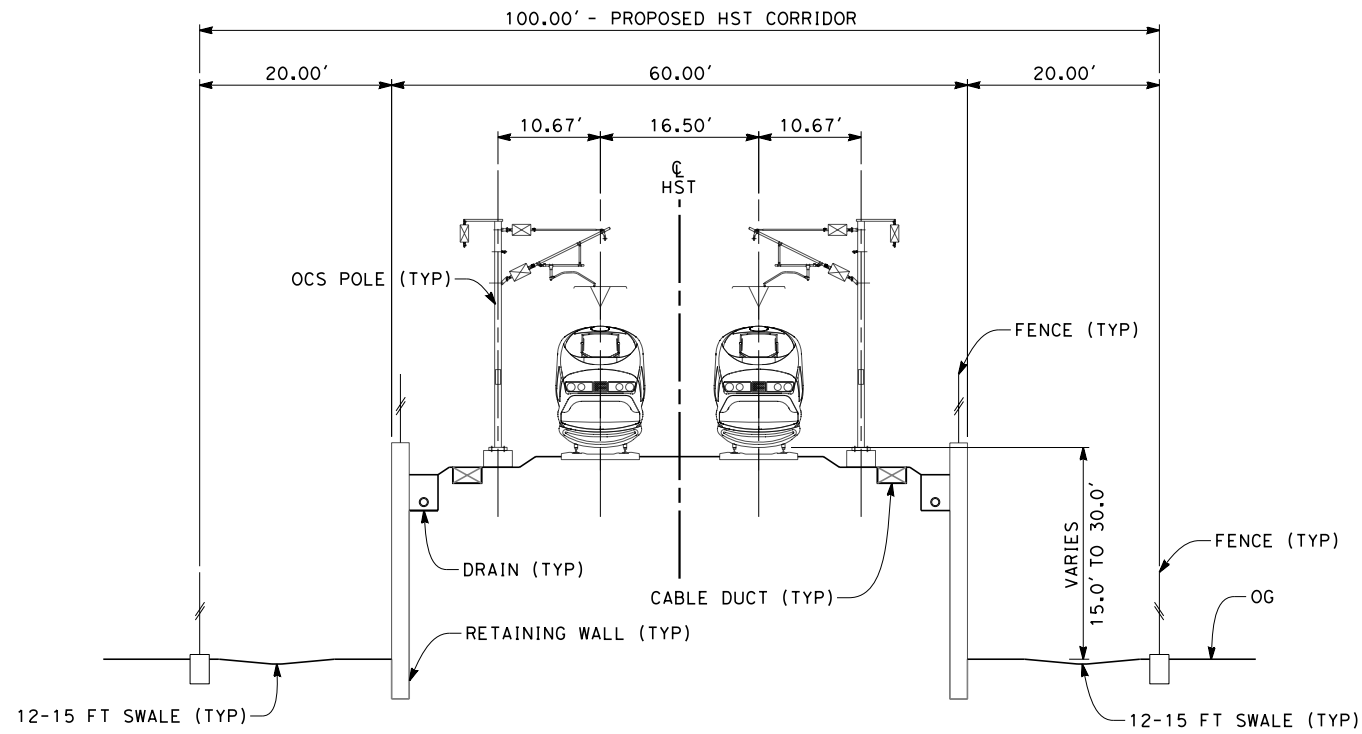


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 POSO CREEK SUBSECTION  
 ALIGNMENT L4  
 CROSS SECTIONS

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CB3606  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 15 OF 16

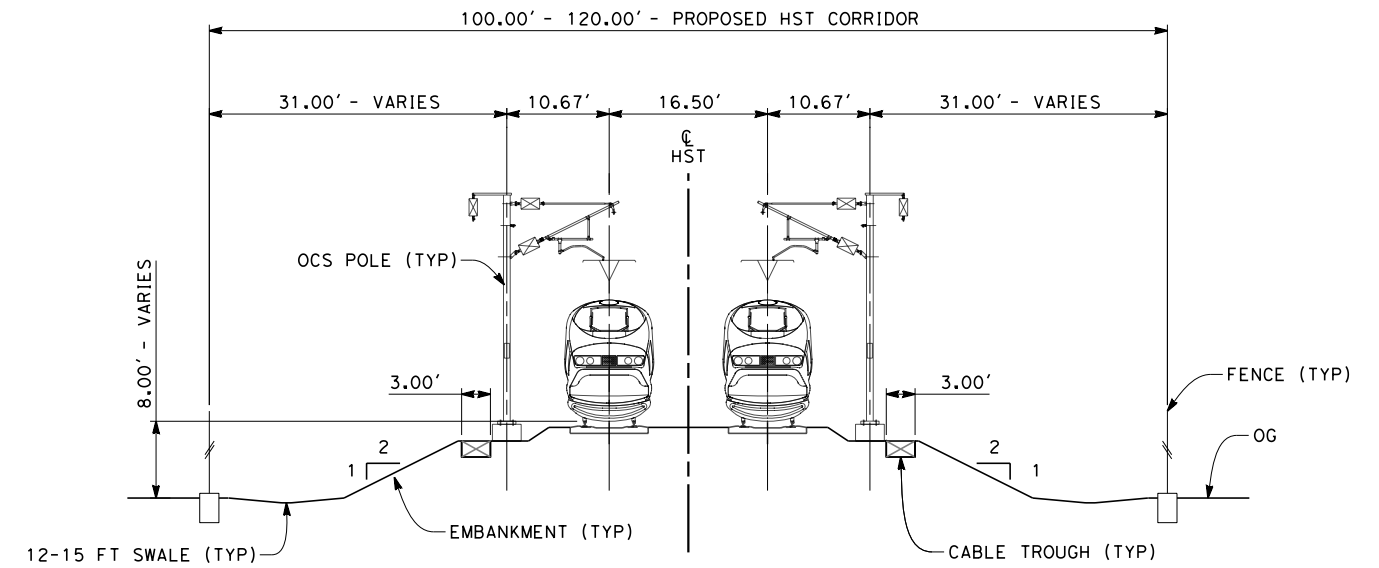


- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS



**SECTION 7**

TWIN TRACKS - RETAINED EMBANKMENT  
STA 5331+50 THROUGH STA 5347+00



**SECTION 8**

TWIN TRACKS - EMBANKMENT  
STA 5347+00 THROUGH STA 5599+92.45



5/12/2011 5:13:53 PM 0:\1\315177\4 Internal Project Data\4-03 Drawings\4-03-01 15% Design\4-03-01-05 Design Sheets\Rail\HSR 15% Design\L4\FB-CB-3607-L4.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
G. WALKER  
DRAWN BY  
J. WALKER  
CHECKED BY  
J. LIPSCOMB  
IN CHARGE  
A. LUFT  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

POSO CREEK SUBSECTION  
ALIGNMENT L4  
CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB3607  
SCALE  
AS SHOWN  
SHEET NO.  
16 OF 16



5/12/2011 11:29:39 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CB-1448.dgn



**LEGEND**

- EXISTING FREIGHT RAILROAD
- PROPOSED CHST

3500 0 3500 7000  
1"=3500'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. BINNING**

DRAWN BY  
**V. ORTEGA**

CHECKED BY  
**L. TRUJILLO**

IN CHARGE  
**T. ROWORTH**

DATE  
**05/13/11**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH WASCO-SHAFTER SUBSECTION  
 ALIGNMENT WS1  
 STA. 5422+50.00 TO 6511+95.52  
 KEY MAP

CONTRACT NO.  
HSR 06-0003

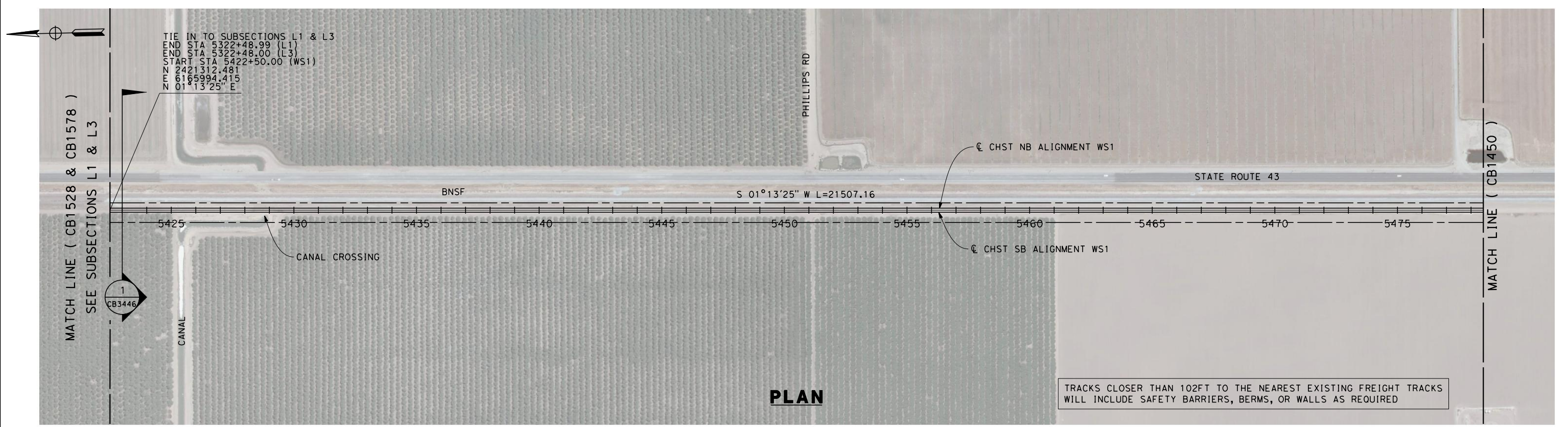
DRAWING NO.  
CB1448

SCALE  
AS SHOWN

SHEET NO.  
1 OF 32

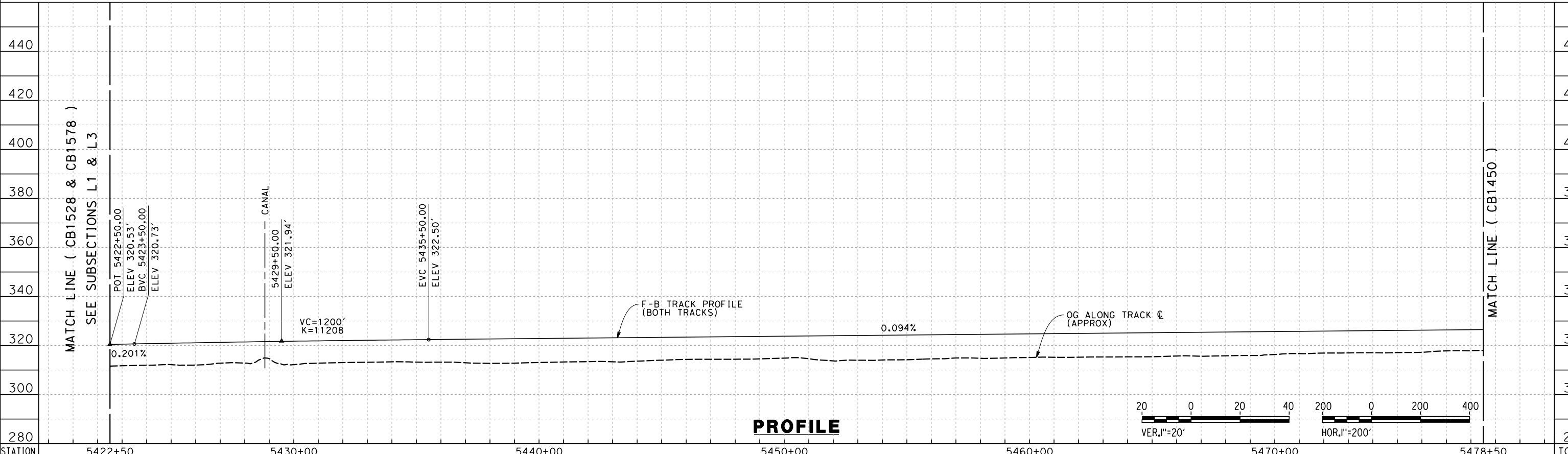


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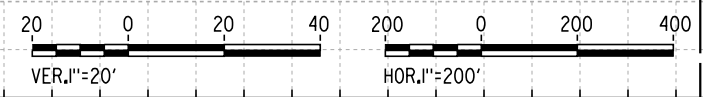


**PLAN**

TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



**PROFILE**



STATION	5422+50	5430+00	5440+00	5450+00	5460+00	5470+00	5478+50	TOTAL
CY	Exc							
	Emb							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. BINNING**  
DRAWN BY  
**V. ORTEGA**  
CHECKED BY  
**L. TRUJILLO**  
IN CHARGE  
**T. ROWORTH**  
DATE  
**05/13/11**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

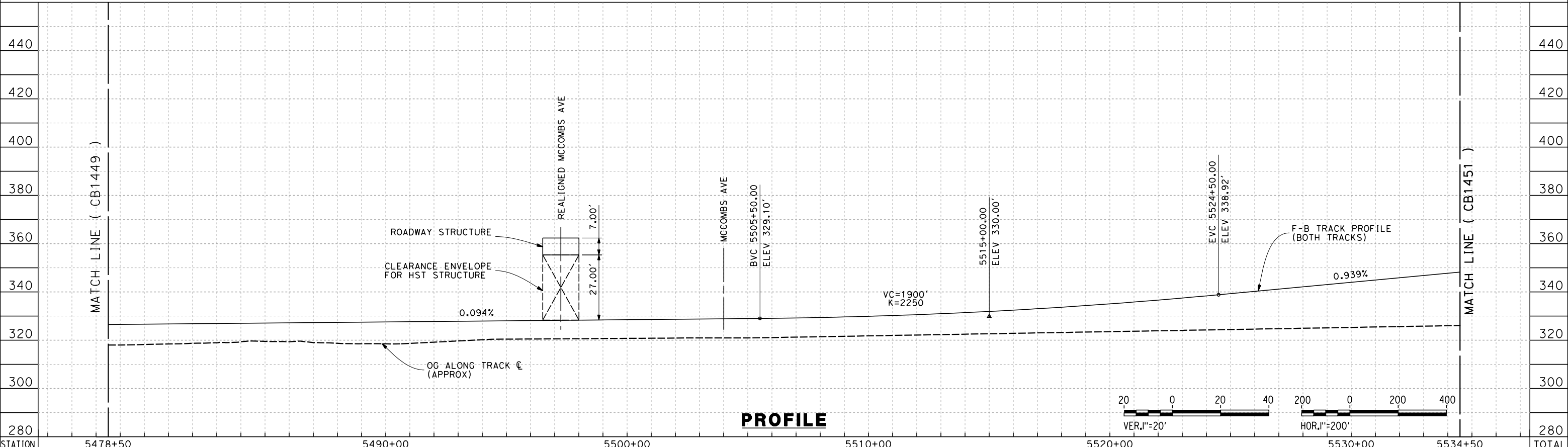
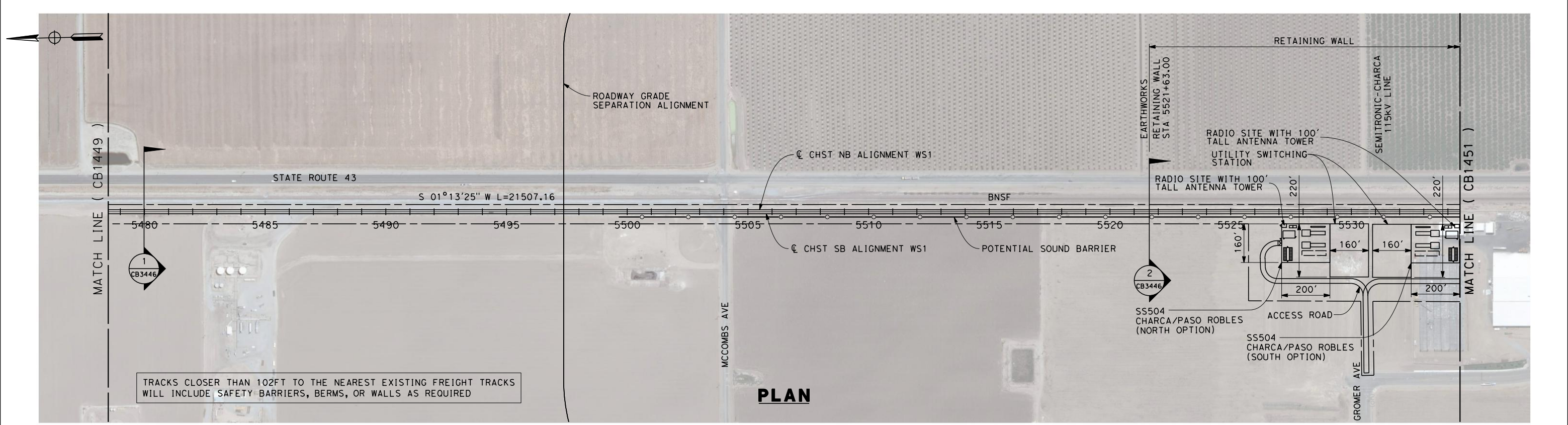


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 5422+50.00 TO 5478+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1449  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 32



7/18/2011 8:41:55 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 Noise Barrier Additions\FB-CB-1450.dgn



STATION	5478+50	5490+00	5500+00	5510+00	5520+00	5530+00	5534+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

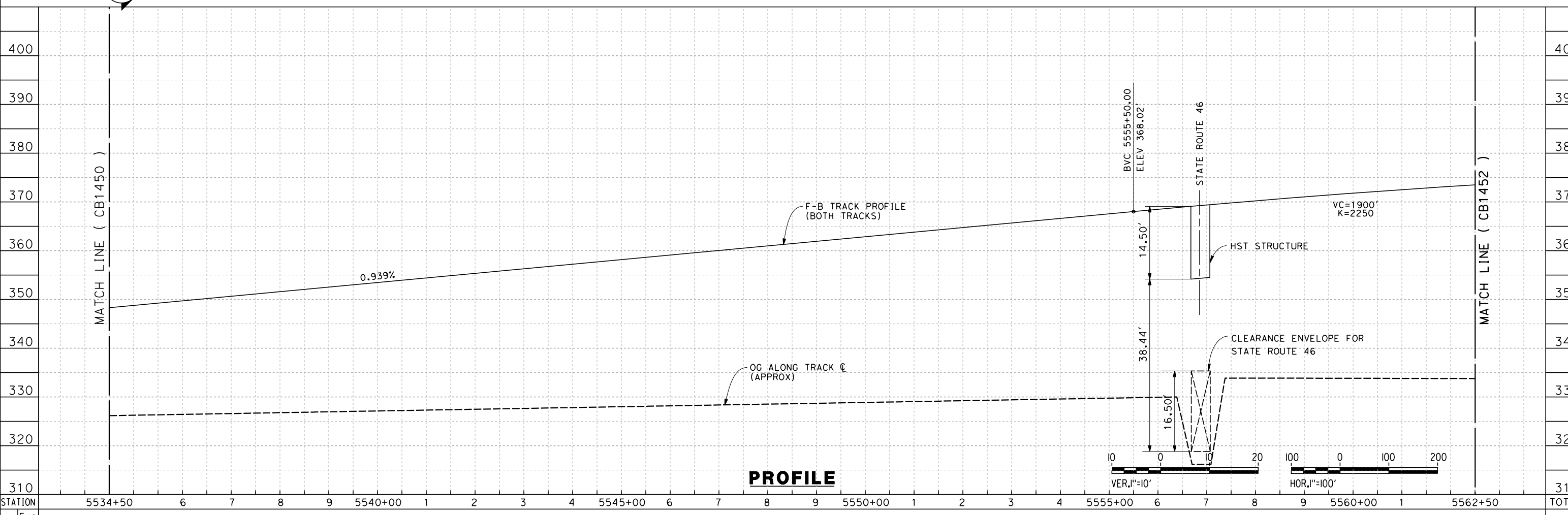
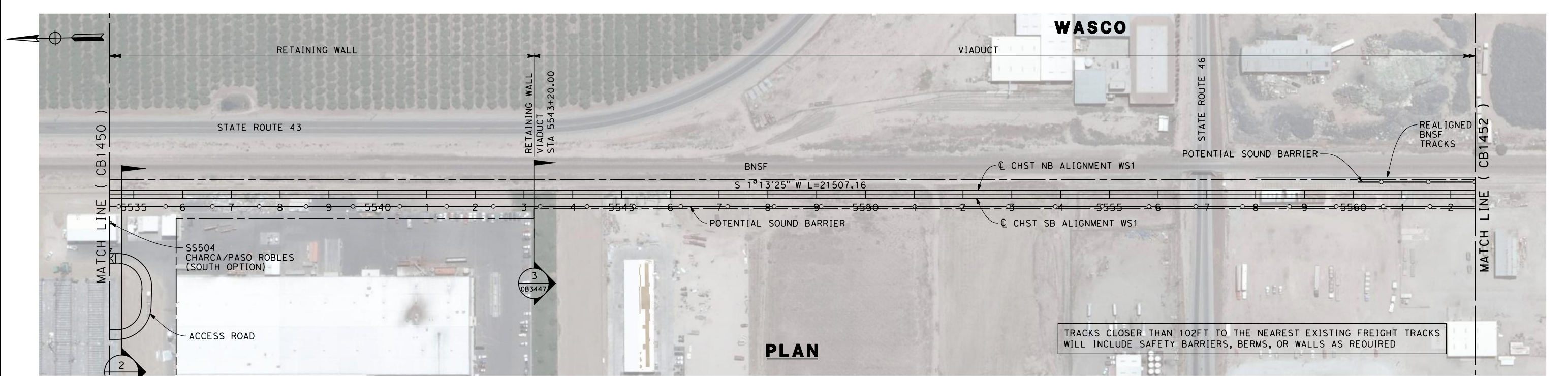


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 5478+50 TO 5534+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1450  
SCALE  
AS SHOWN  
SHEET NO.  
3 OF 32



7/19/2011 6:08:34 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 WS2 Noise Barrier Additions\FB-CB-1451.dgn



STATION	5534+50	6	7	8	9	5540+00	1	2	3	4	5545+00	6	7	8	9	5550+00	1	2	3	4	5555+00	6	7	8	9	5560+00	1	5562+50	TOTAL
CY	Exc																												
	Emb																												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

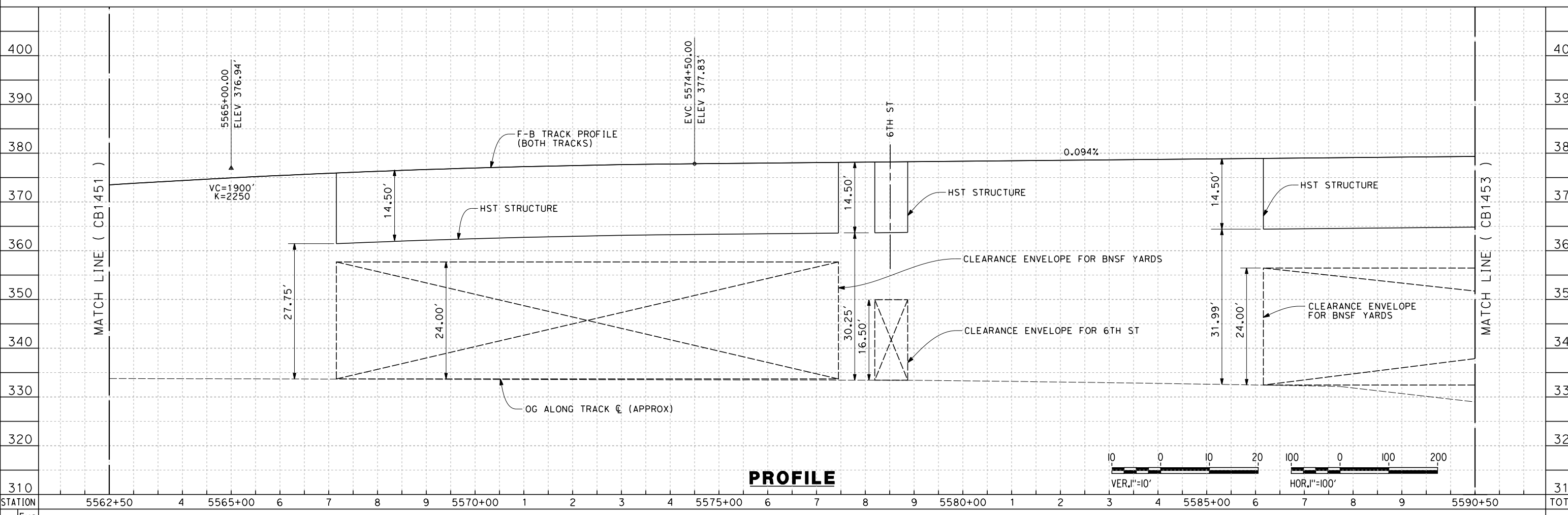
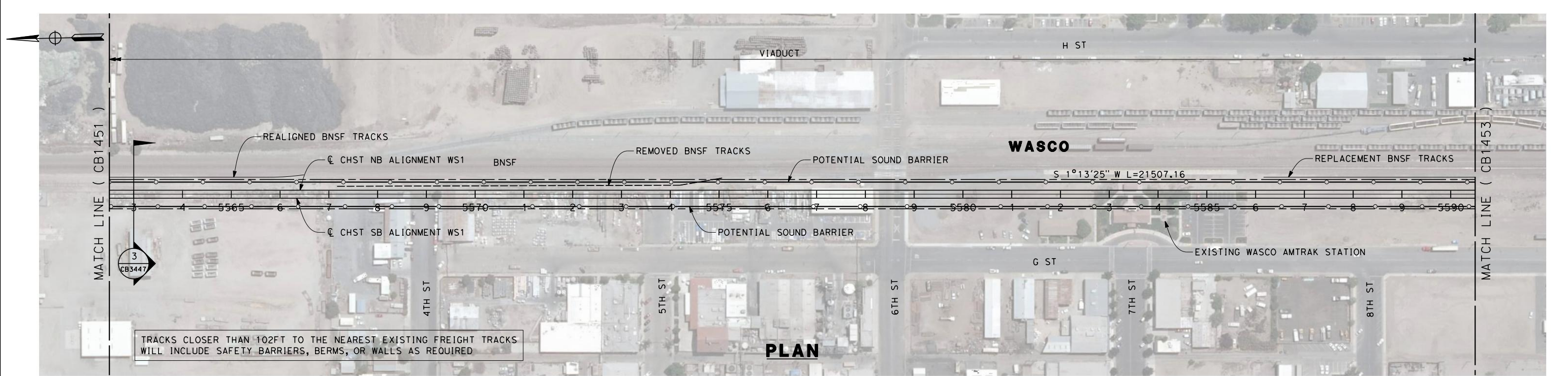
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DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 5534+50 TO 5562+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1451  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 32

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STATION	5562+50	4	5565+00	6	7	8	9	5570+00	1	2	3	4	5575+00	6	7	8	9	5580+00	1	2	3	4	5585+00	6	7	8	9	5590+50	TOTAL
Exc																													
Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 5562+50 TO 5590+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003

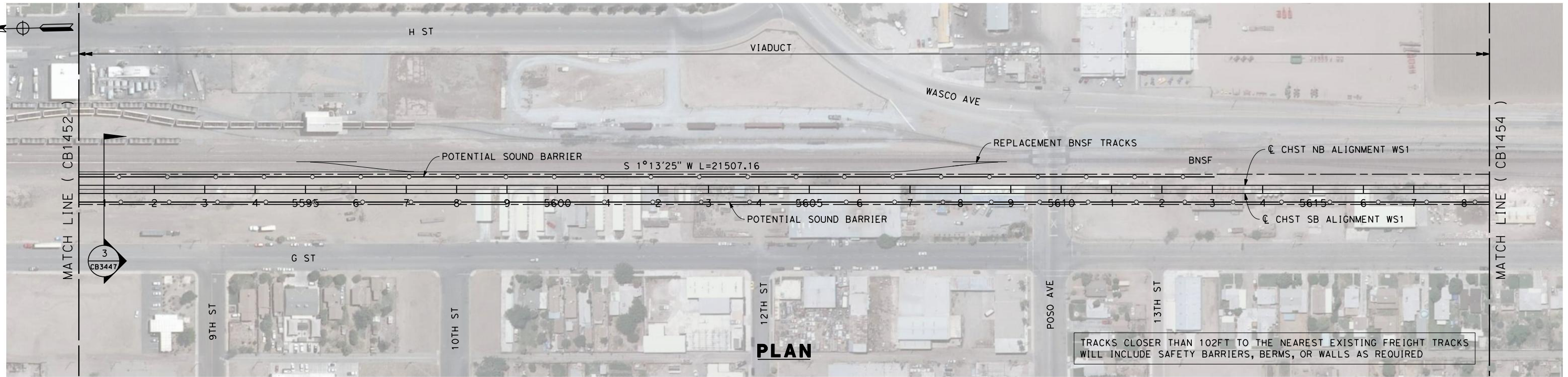
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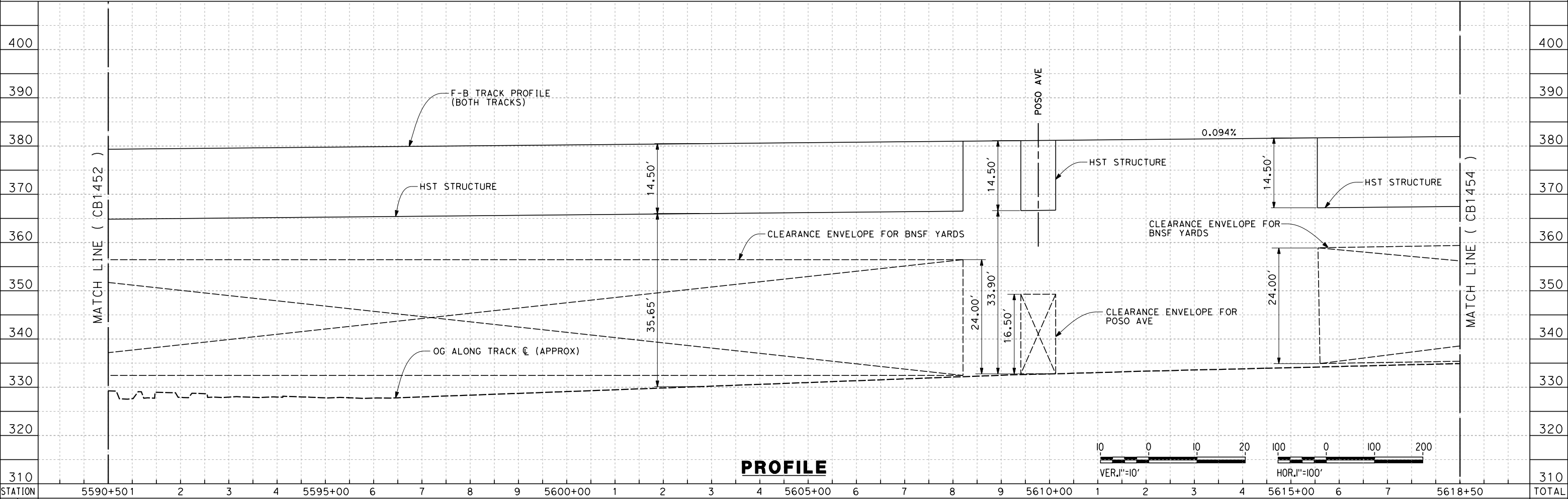
SHEET NO.  
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TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



**PROFILE**

STATION	5590+50	2	3	4	5595+00	6	7	8	9	5600+00	1	2	3	4	5605+00	6	7	8	9	5610+00	1	2	3	4	5615+00	6	7	5618+50	TOTAL
Exc																													
Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. BINNING**  
 DRAWN BY  
**V. ORTEGA**  
 CHECKED BY  
**L. TRUJILLO**  
 IN CHARGE  
**T. ROWORTH**  
 DATE  
**05/13/11**

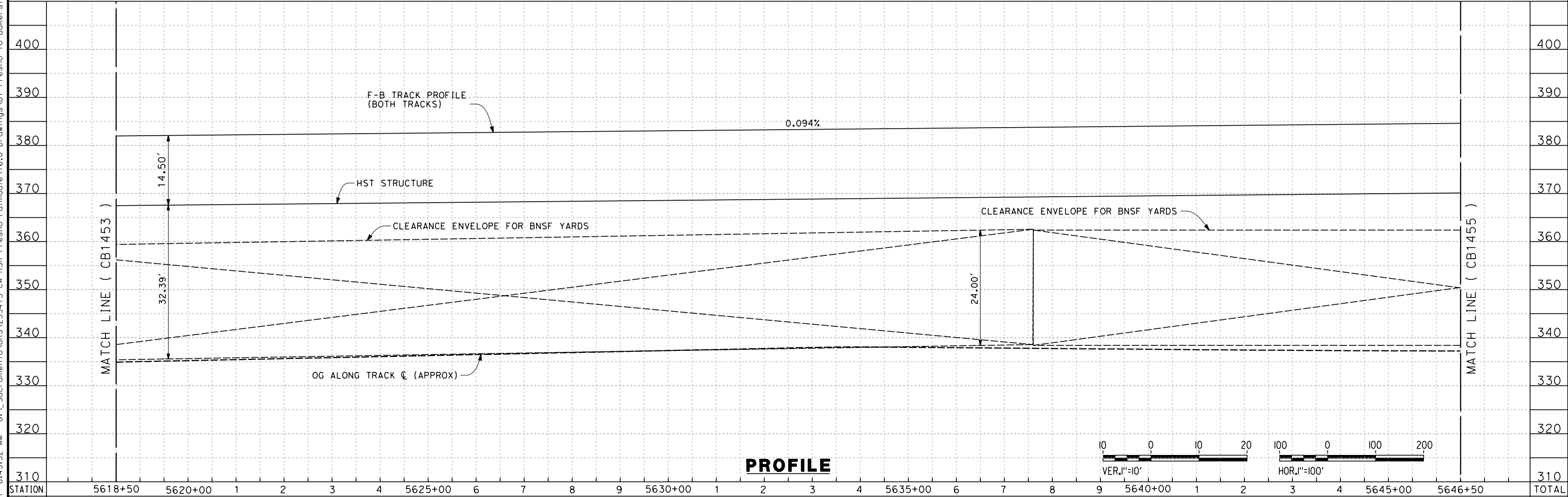
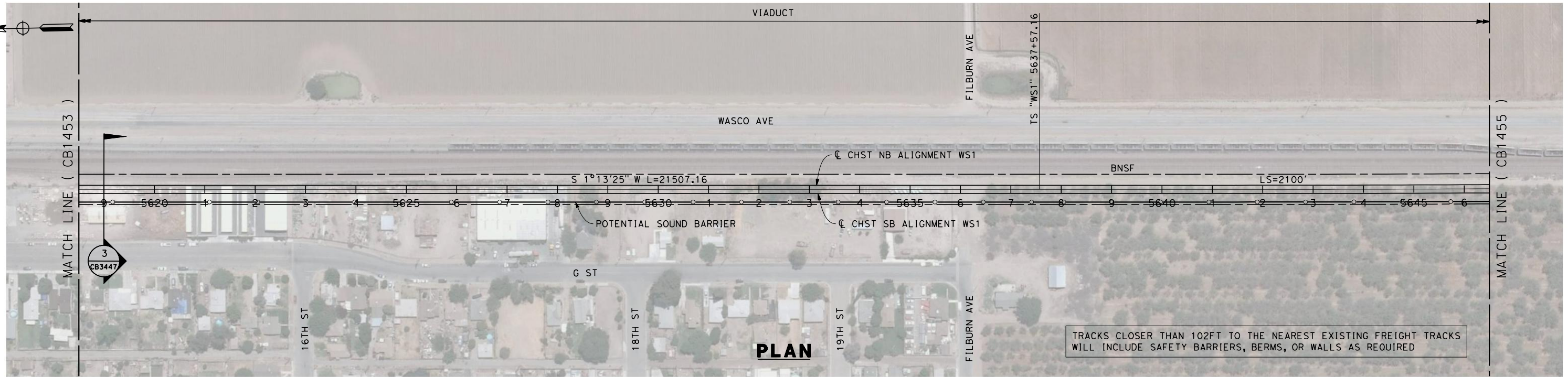
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 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH WASCO-SHAFTER SUBSECTION  
 ALIGNMENT WS1  
 STA. 5590+50 TO 5618+50  
 PLAN AND PROFILE

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CB1453  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 6 OF 32

7/18/2011 8:43:32 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS1 15% CCE\2011-07-14 WS1 WS2 Noise Barrier Additions\FB-CB-1454.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 5618+50 TO 5646+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003

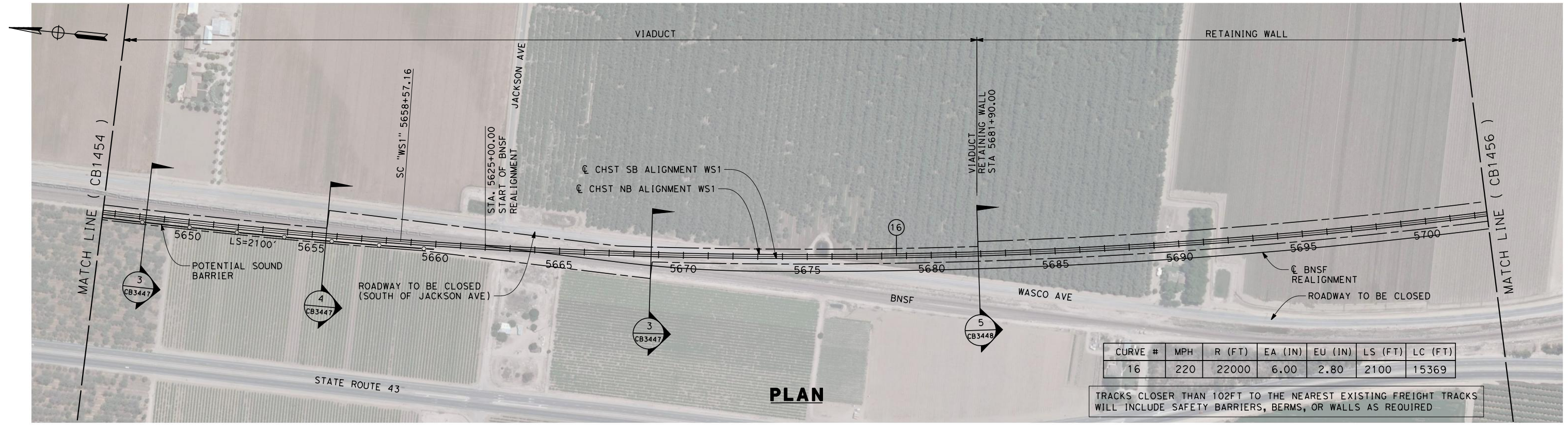
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SCALE  
AS SHOWN

SHEET NO.  
7 OF 32



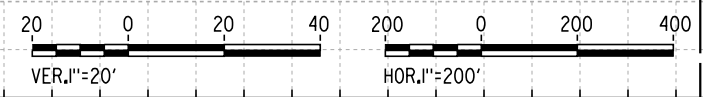
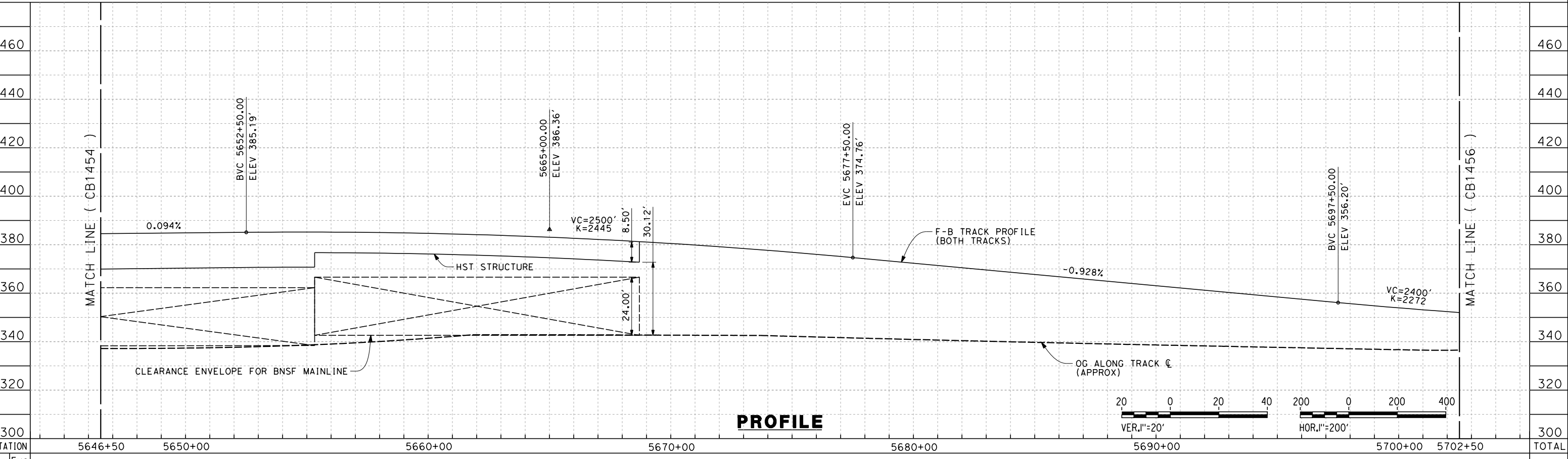
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CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	220	22000	6.00	2.80	2100	15369

TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

**PLAN**



**PROFILE**

STATION	5646+50	5650+00	5660+00	5670+00	5680+00	5690+00	5700+00	5702+50	TOTAL
Exc									
Emb									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. BINNING**  
 DRAWN BY  
**V. ORTEGA**  
 CHECKED BY  
**L. TRUJILLO**  
 IN CHARGE  
**T. ROWORTH**  
 DATE  
**05/13/11**

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
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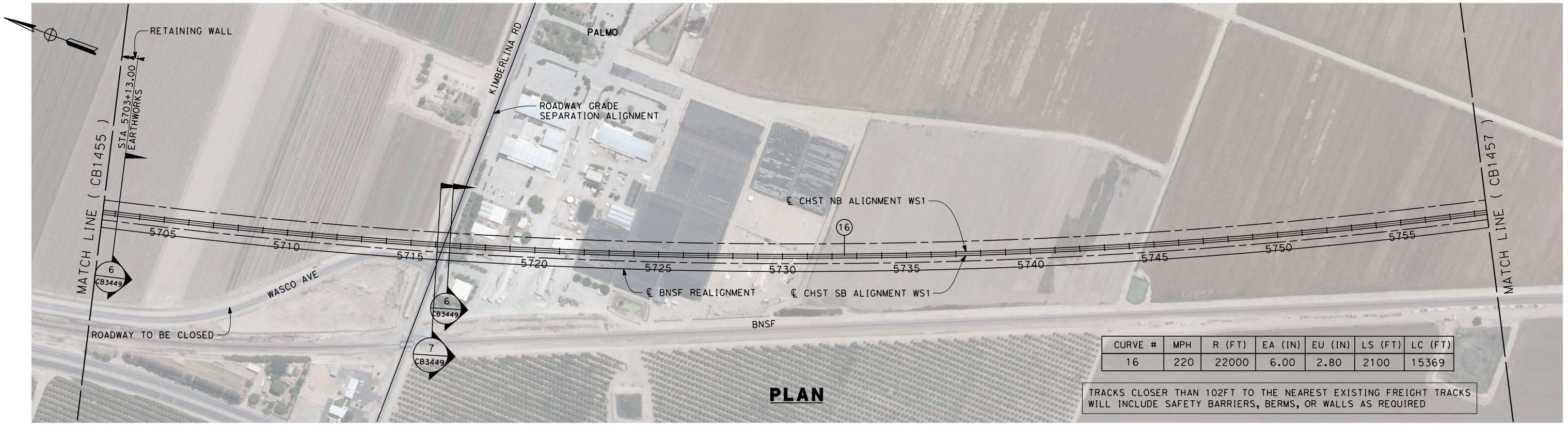


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 THROUGH WASCO-SHAFTER SUBSECTION  
 ALIGNMENT WS1  
 STA. 5646+50 TO 5702+50  
 PLAN AND PROFILE

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CB1455  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 8 OF 32



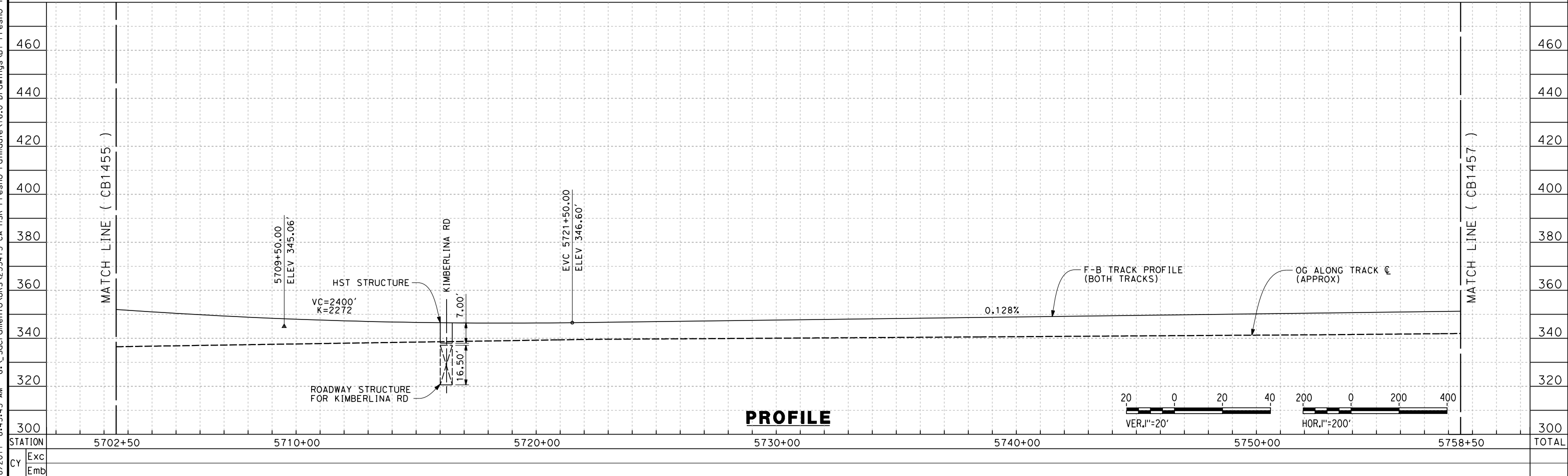
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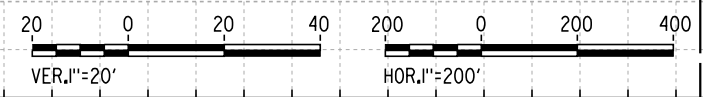
CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	220	22000	6.00	2.80	2100	15369

TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

**PLAN**



**PROFILE**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

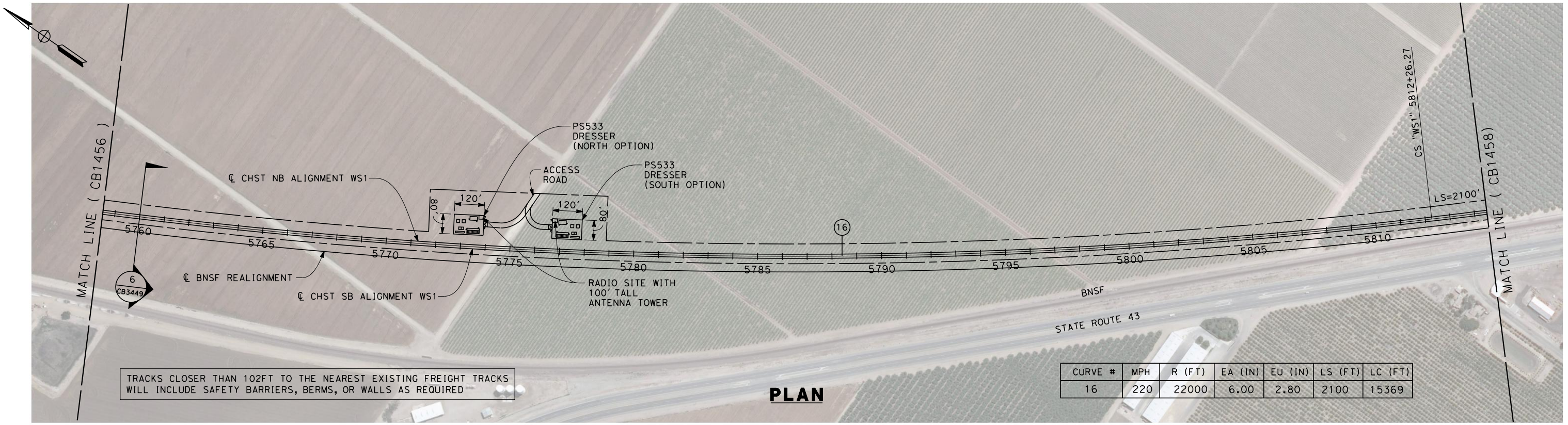


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 5702+50 TO 5758+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1456  
SCALE  
AS SHOWN  
SHEET NO.  
9 OF 32



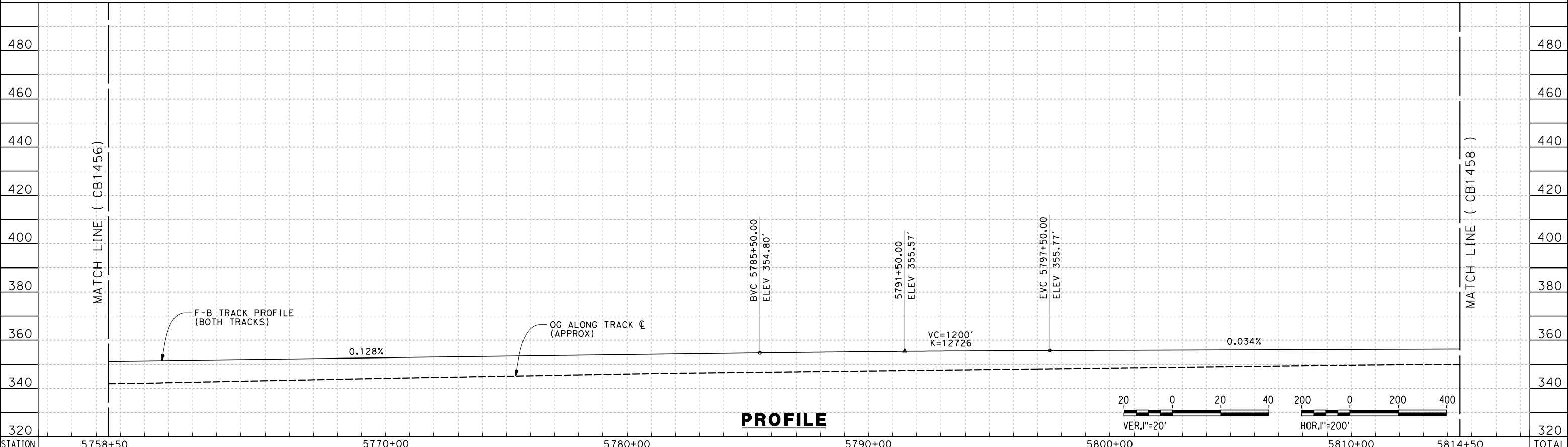
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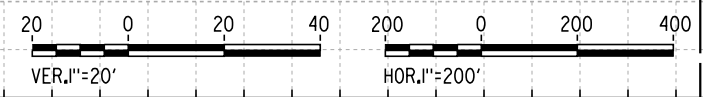
TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

**PLAN**

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	220	22000	6.00	2.80	2100	15369



**PROFILE**



STATION	5758+50	5770+00	5780+00	5790+00	5800+00	5810+00	5814+50	TOTAL
---------	---------	---------	---------	---------	---------	---------	---------	-------

Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

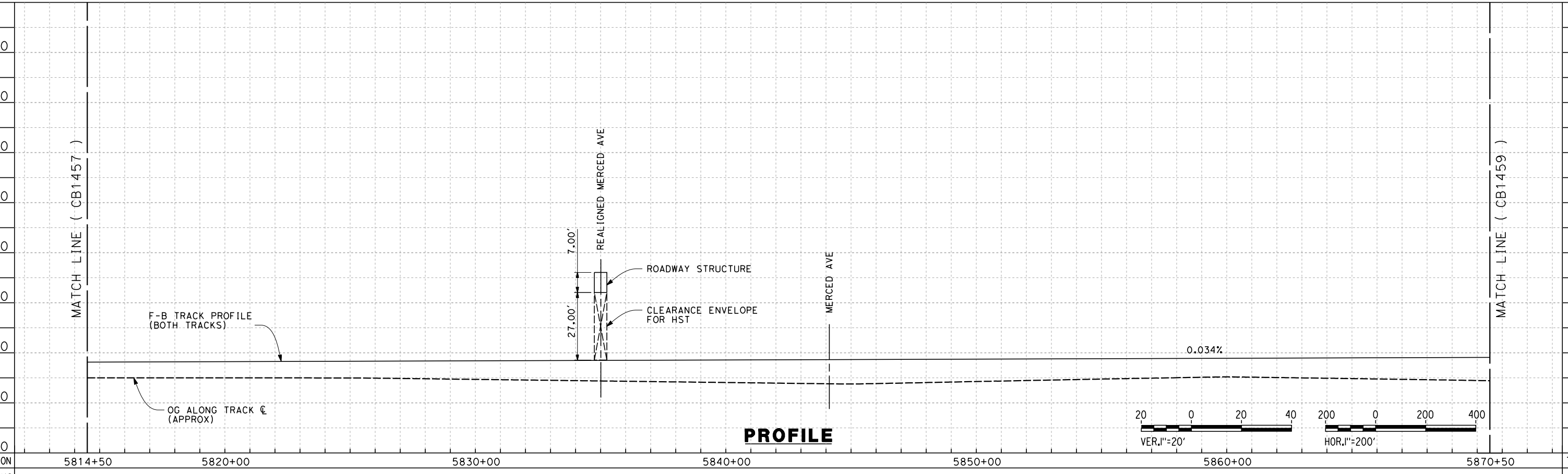
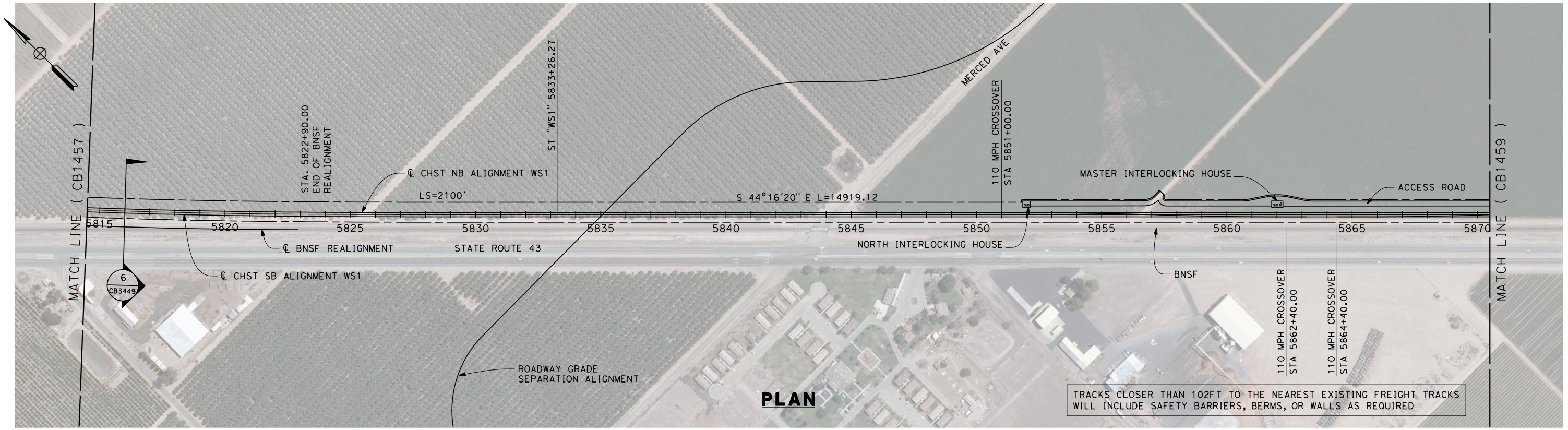


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 5758+50 TO 5814+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1457  
SCALE  
AS SHOWN  
SHEET NO.  
10 OF 32



7/18/2011 8:57:35 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS1 15% CCE\2011-07-14 WS1 15% Noise Barrier Additions\FB-CB-1458.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

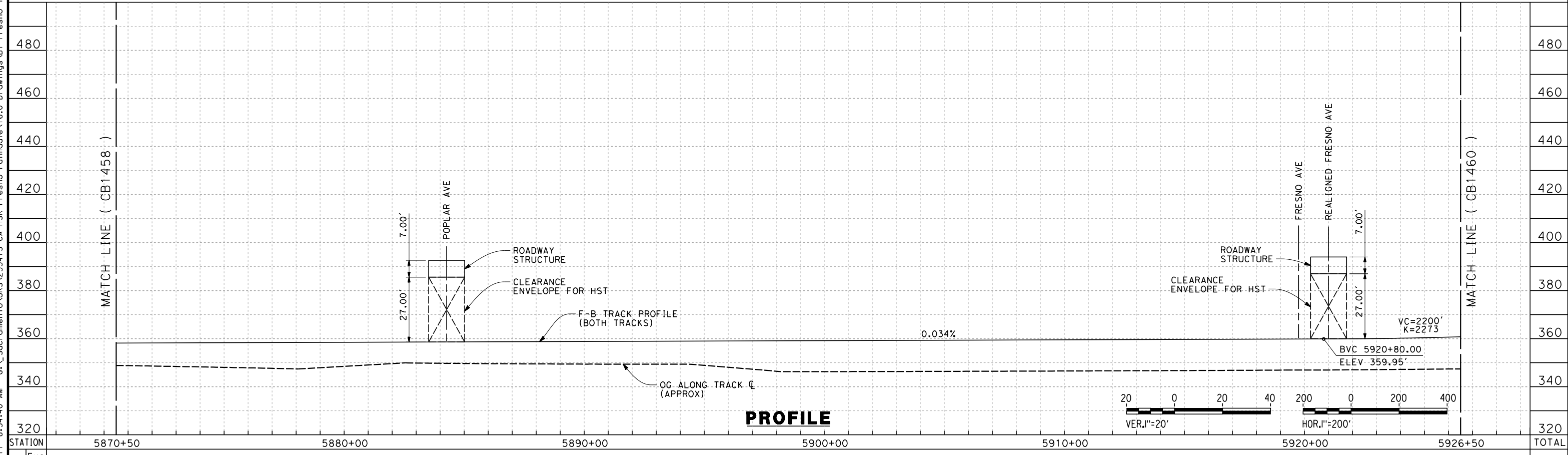
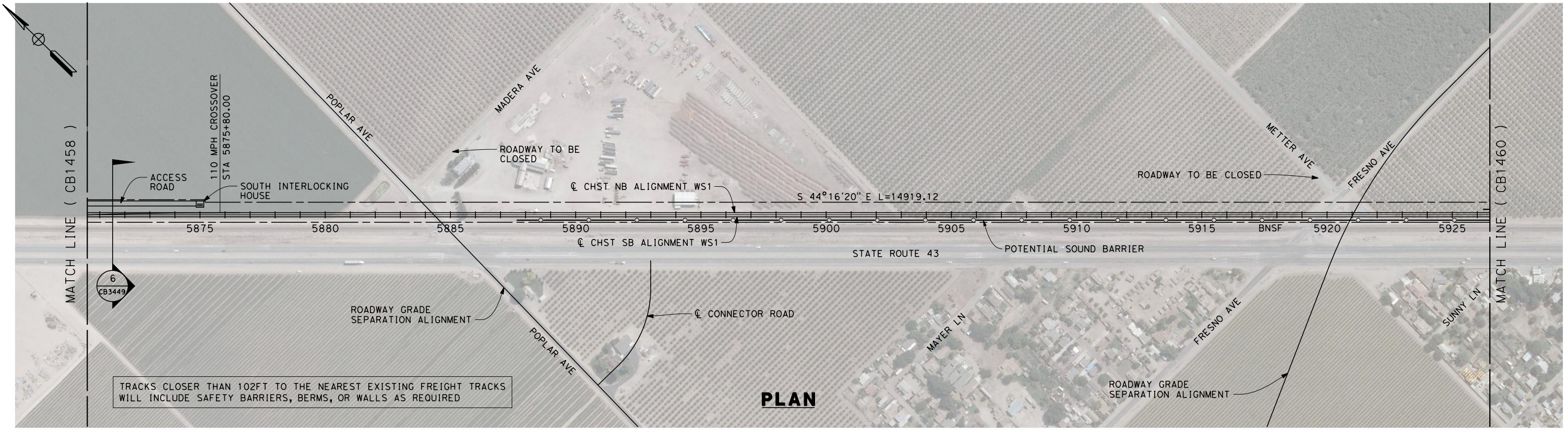


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 5814+50 TO 5870+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1458  
SCALE  
AS SHOWN  
SHEET NO.  
11 OF 32



7/18/2011 8:54:40 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 15% Noise Barrier Additions\FB-CB-1459.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



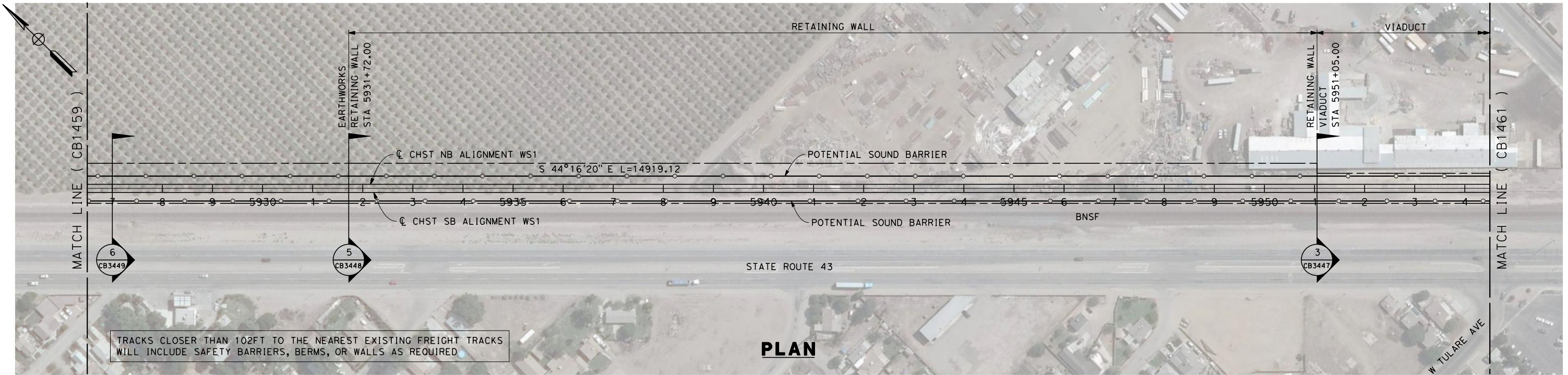
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 5870+50 TO 5926+50  
PLAN AND PROFILE

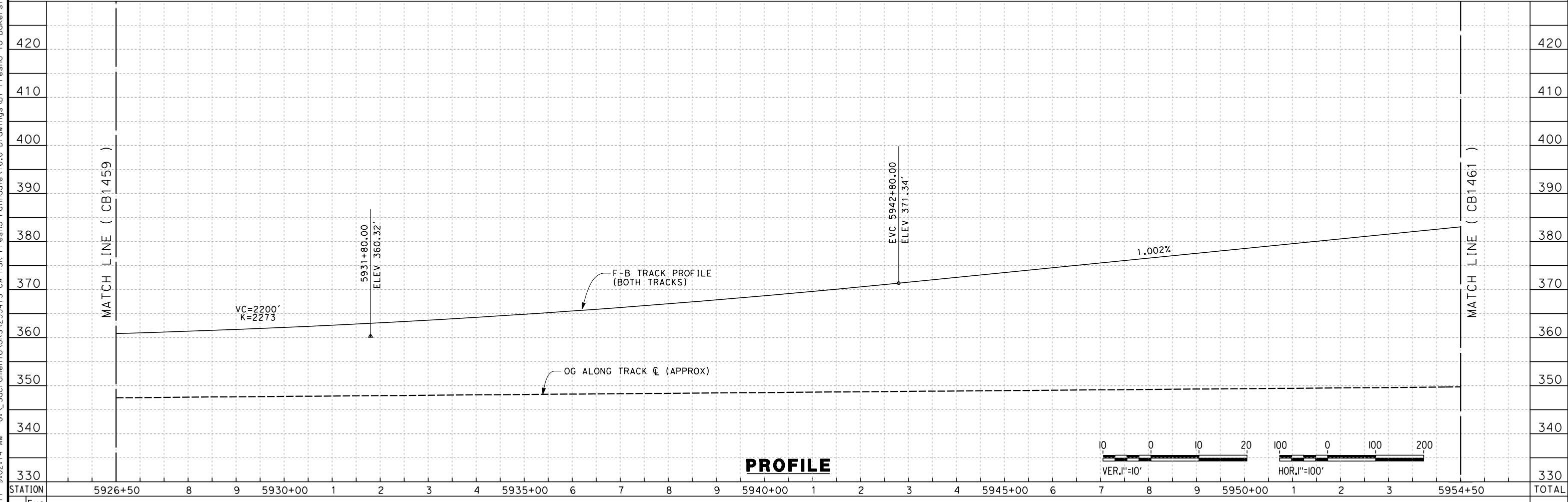
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1459  
SCALE  
AS SHOWN  
SHEET NO.  
12 OF 32



7/18/2011 9:02:14 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 WS2 Noise Barrier Additions\FB-CB-1460.dgn



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



STATION	5926+50	8	9	5930+00	1	2	3	4	5935+00	6	7	8	9	5940+00	1	2	3	4	5945+00	6	7	8	9	5950+00	1	2	3	5954+50	TOTAL	
CY	Exc																													
	Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. BINNING**  
DRAWN BY  
**V. ORTEGA**  
CHECKED BY  
**L. TRUJILLO**  
IN CHARGE  
**T. ROWORTH**  
DATE  
**05/13/11**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 5926+50 TO 5954+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003

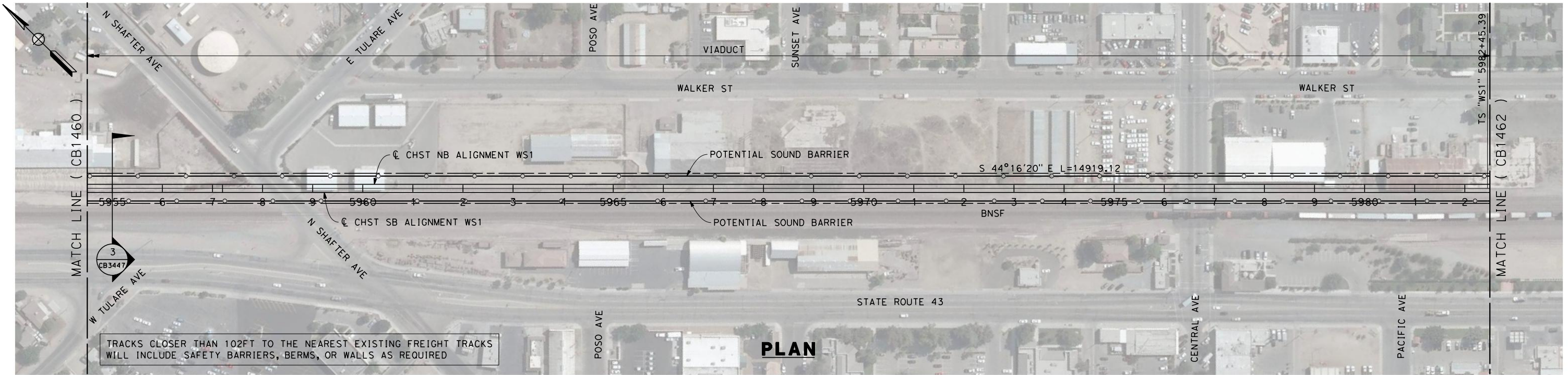
DRAWING NO.  
CB1460

SCALE  
AS SHOWN

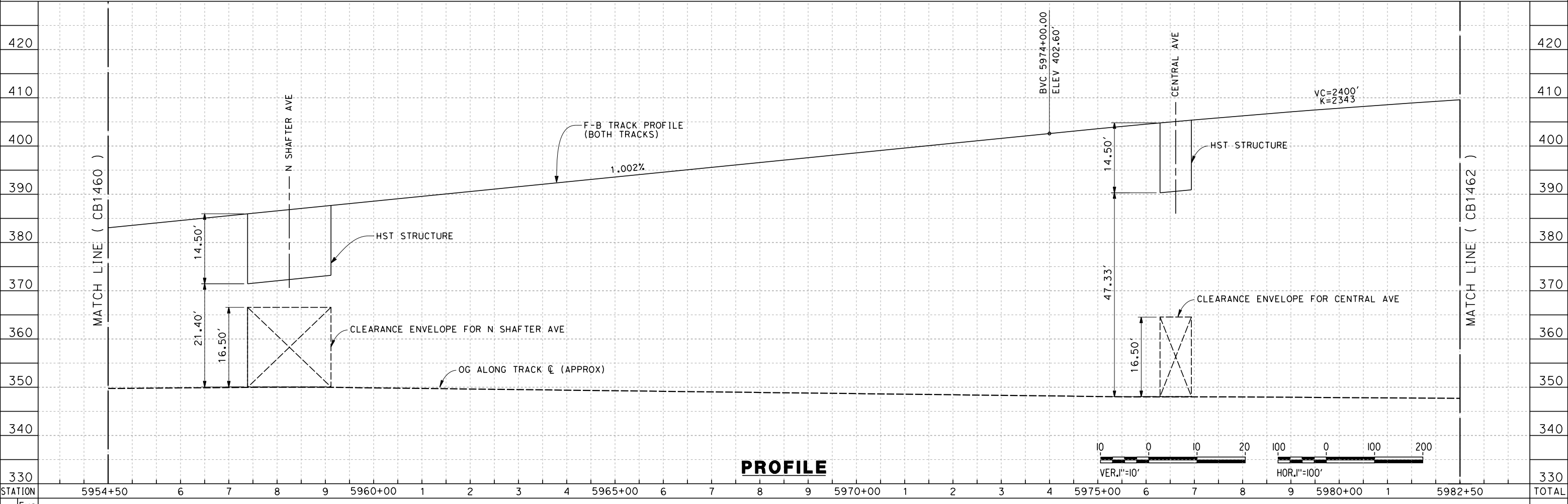
SHEET NO.  
13 OF 32



7/18/2011 9:03:14 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 WS2 Noise Barrier Additions\FB-CB-1461.dgn



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. BINNING**  
DRAWN BY  
**V. ORTEGA**  
CHECKED BY  
**L. TRUJILLO**  
IN CHARGE  
**T. ROWORTH**  
DATE  
**05/13/11**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

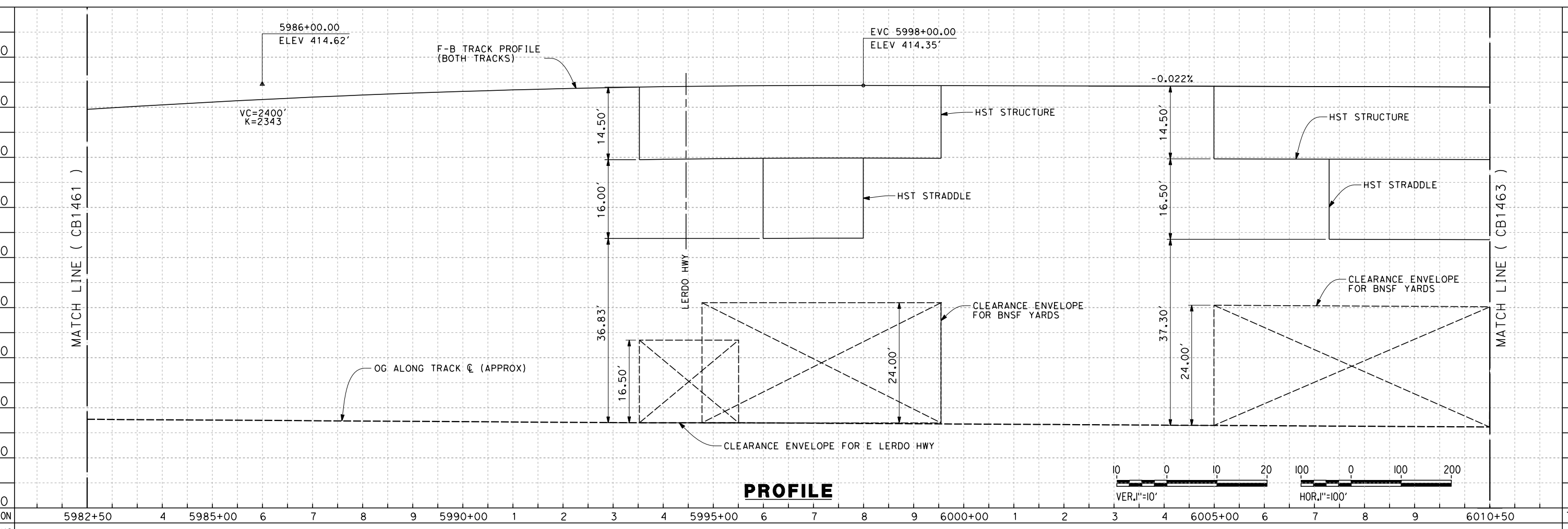
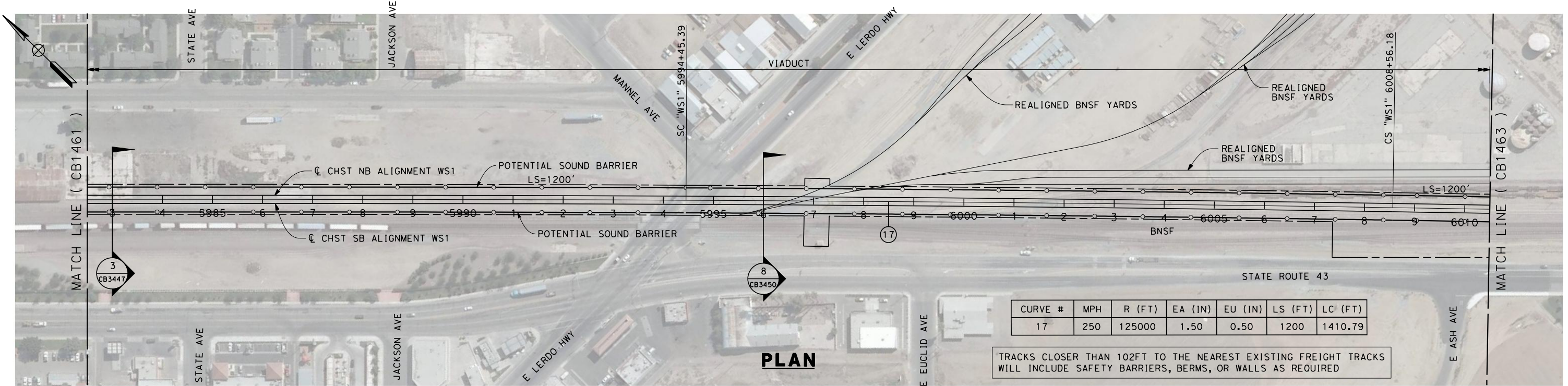


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 5954+50 TO 5982+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1461  
SCALE  
AS SHOWN  
SHEET NO.  
14 OF 32



7/18/2011 9:08:18 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS1 15% CCE\2011-07-14 WS1 WS2 Noise Barrier Additions\FB-CB-1462.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

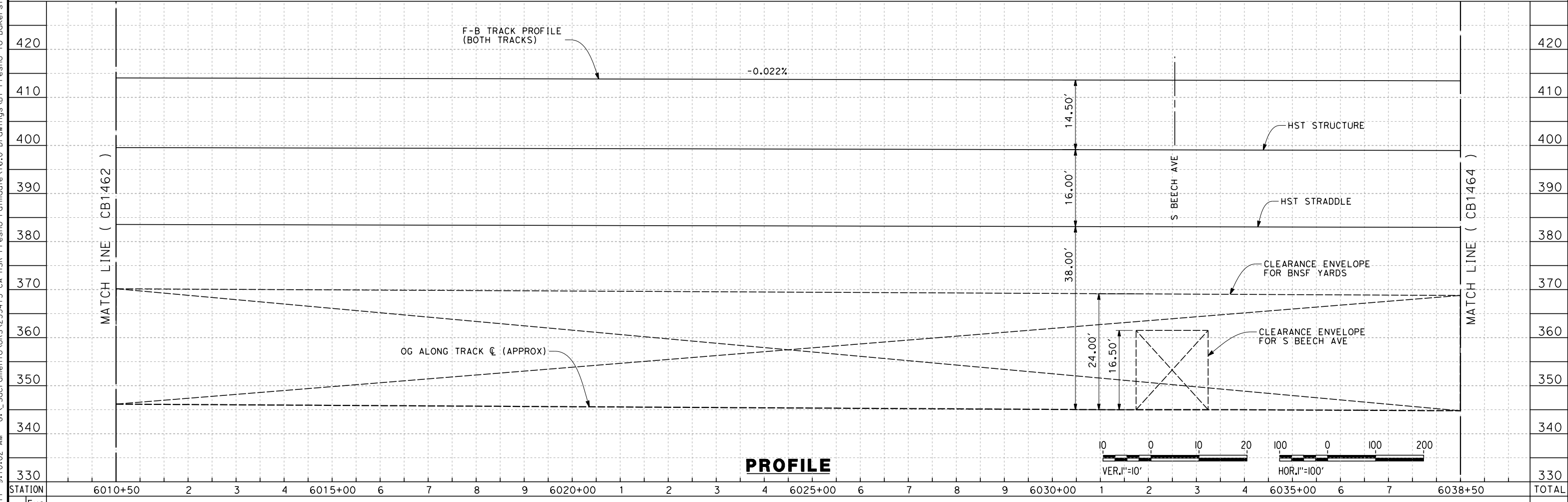
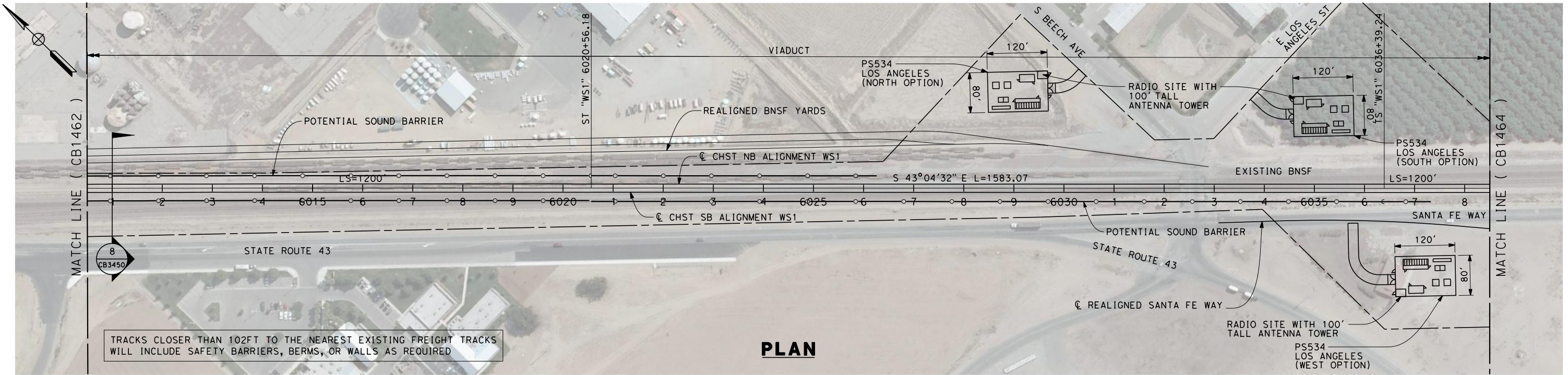


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 5982+50 TO 6010+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1462  
SCALE  
AS SHOWN  
SHEET NO.  
15 OF 32



7/18/2011 9:10:02 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 WS2 Noise Barrier Additions\FB-CB-1463.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



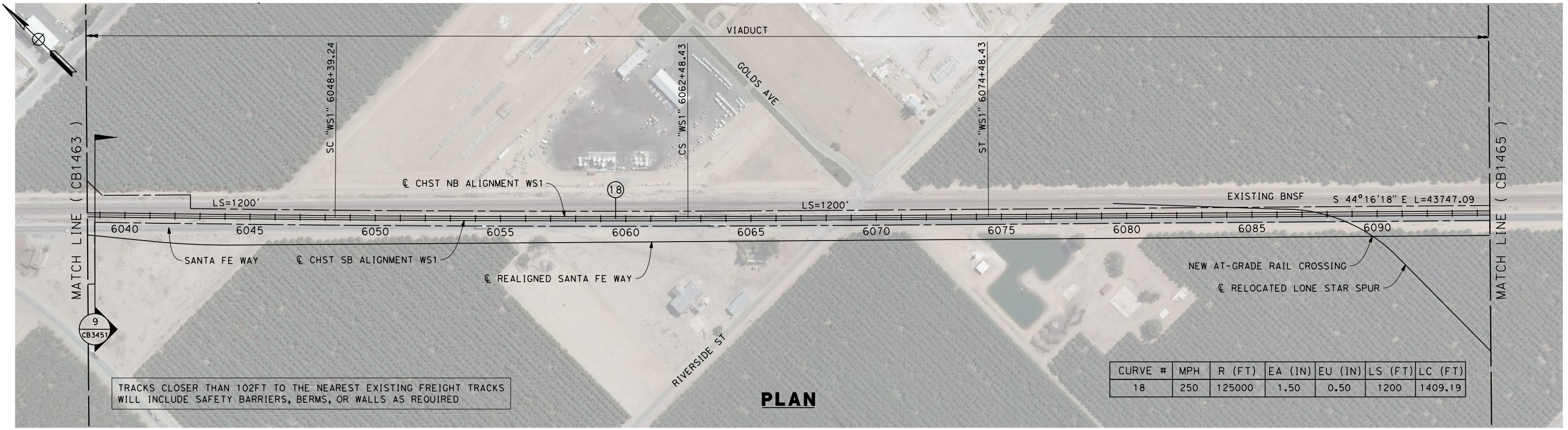
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 6010+50 TO 6038+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1463  
SCALE  
AS SHOWN  
SHEET NO.  
16 OF 32



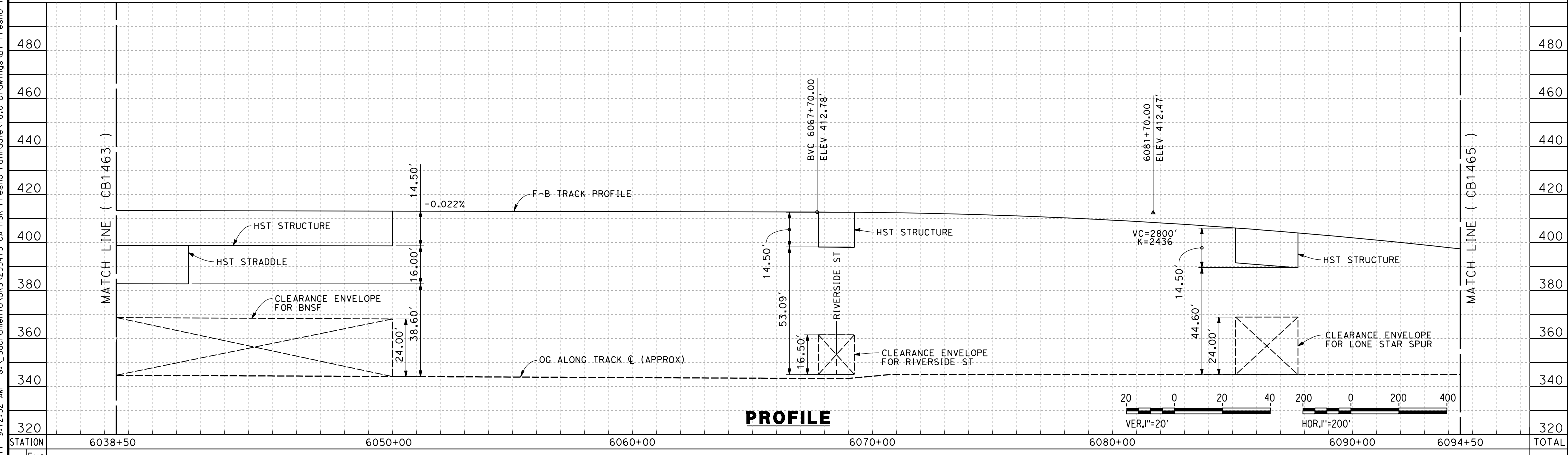
7/18/2011 9:12:52 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 WS2 Noise Barrier Additions\FB-CB-1464.dgn



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
18	250	125000	1.50	0.50	1200	1409.19

**PLAN**



**PROFILE**

STATION	6038+50	6050+00	6060+00	6070+00	6080+00	6090+00	6094+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

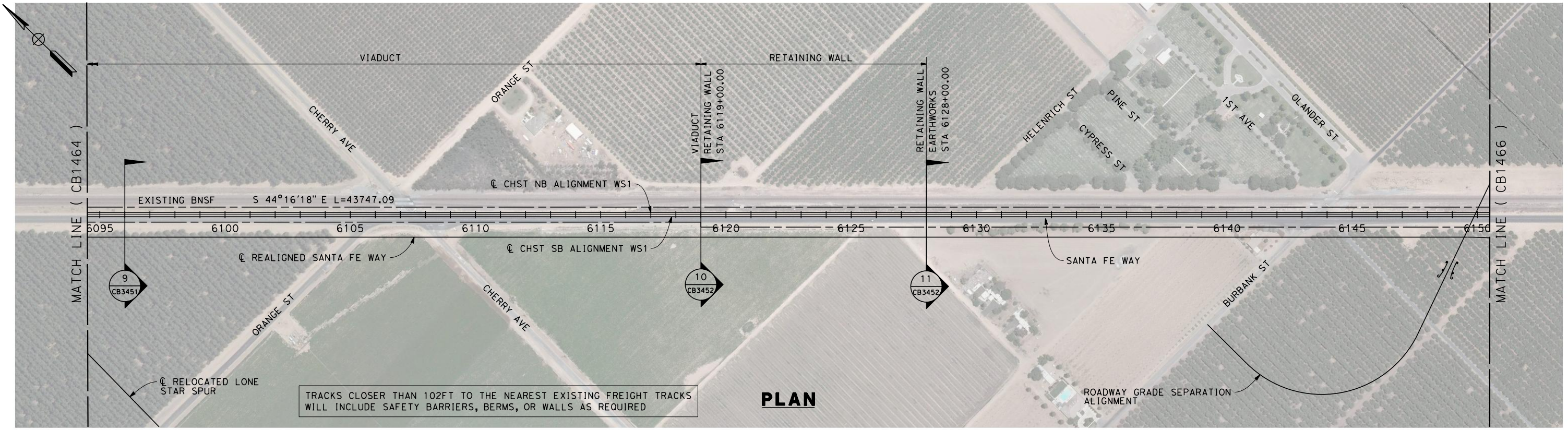


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 6038+50 TO 6094+50  
PLAN AND PROFILE

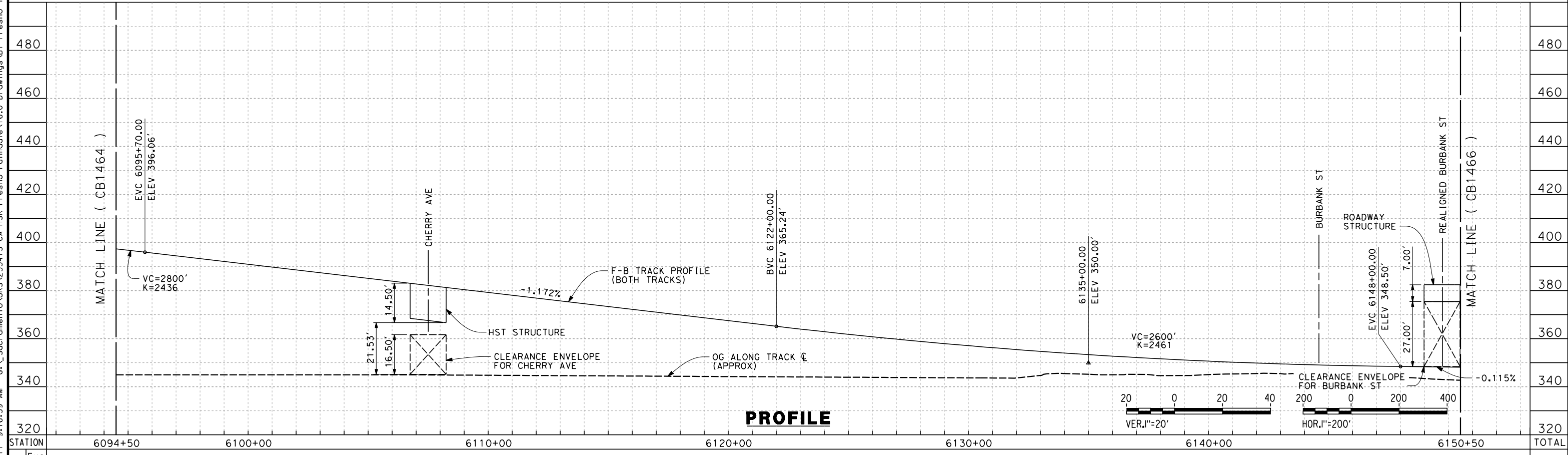
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1464  
SCALE  
AS SHOWN  
SHEET NO.  
17 OF 32



7/18/2011 9:16:59 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 15% CCE\Noise Barrier Additions\FB-CB-1465.dgn



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



STATION	6094+50	6100+00	6110+00	6120+00	6130+00	6140+00	6150+50	TOTAL
CY	Exc							
	Emb							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

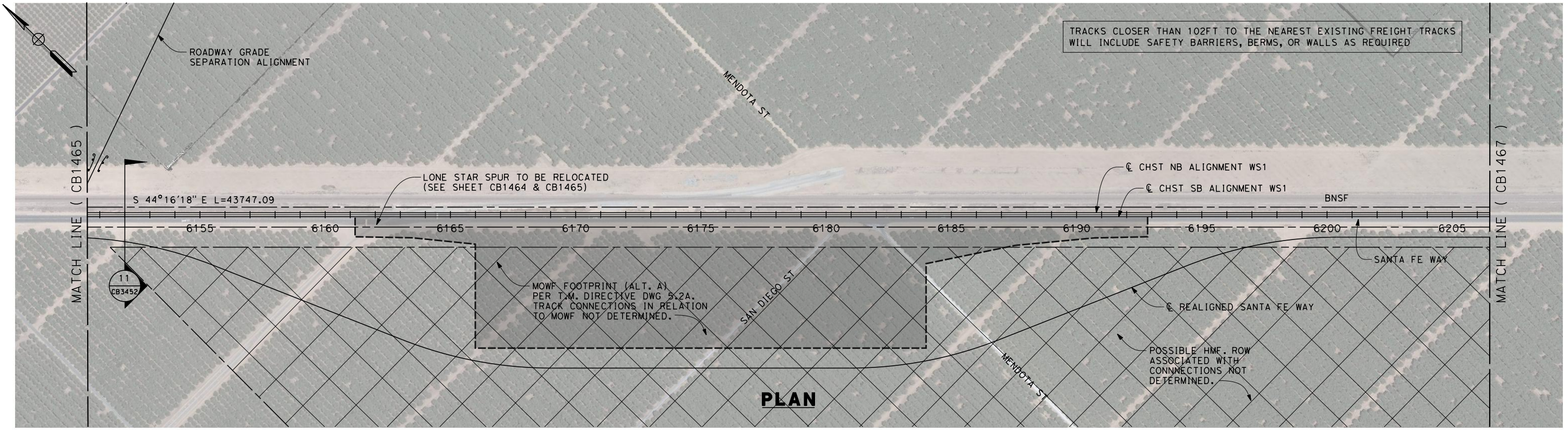


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 6094+50 TO 6150+50  
PLAN AND PROFILE

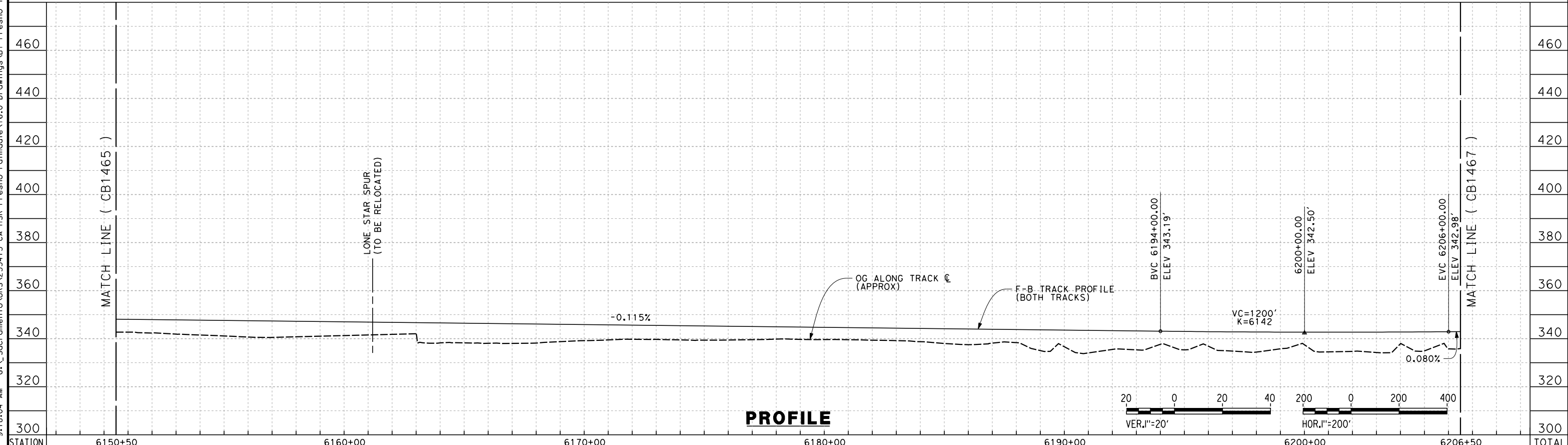
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1465  
SCALE  
AS SHOWN  
SHEET NO.  
18 OF 32



7/18/2011 9:18:04 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 15% Noise Barrier Additions\FB-CB-1466.dgn



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING

DRAWN BY  
V. ORTEGA

CHECKED BY  
L. TRUJILLO

IN CHARGE  
T. ROWORTH

DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION

ALIGNMENT WS1

STA. 6150+50 TO 6206+50

PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003

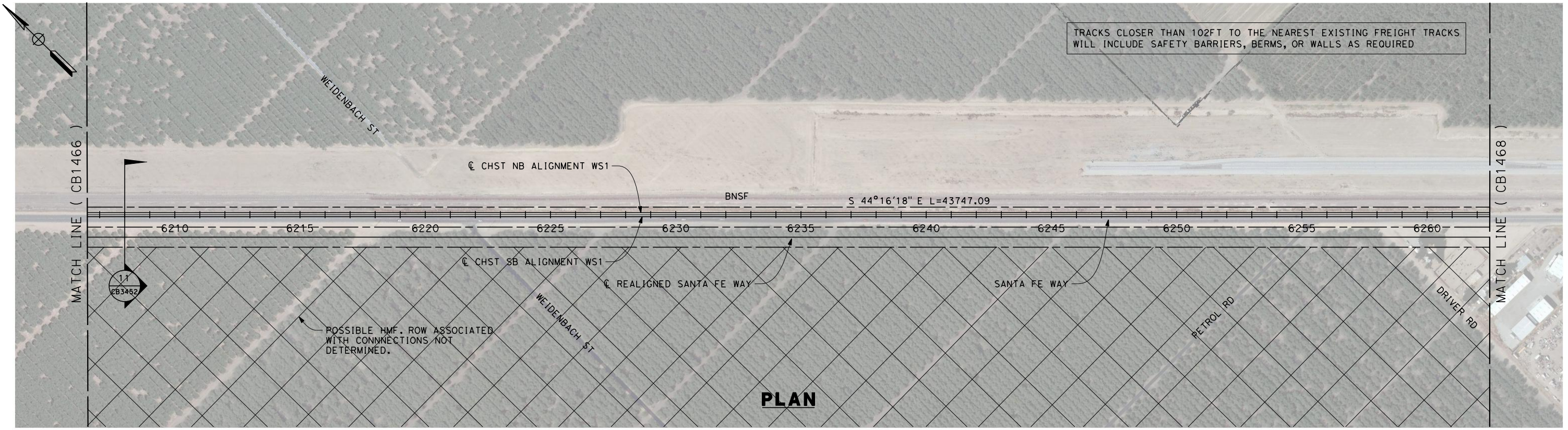
DRAWING NO.  
CB1466

SCALE  
AS SHOWN

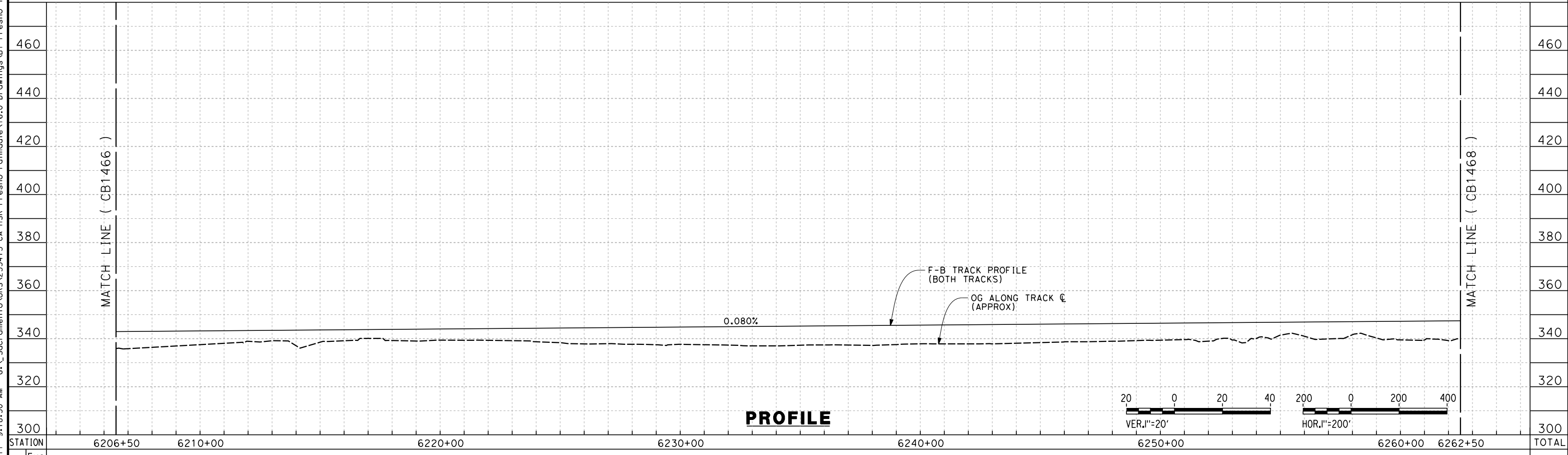
SHEET NO.  
19 OF 32



7/18/2011 9:18:50 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 WS2 Noise Barrier Additions\FB-CB-1467.dgn



**PLAN**



**PROFILE**

STATION	6206+50	6210+00	6220+00	6230+00	6240+00	6250+00	6260+00	6262+50	TOTAL
Exc									
Emb									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

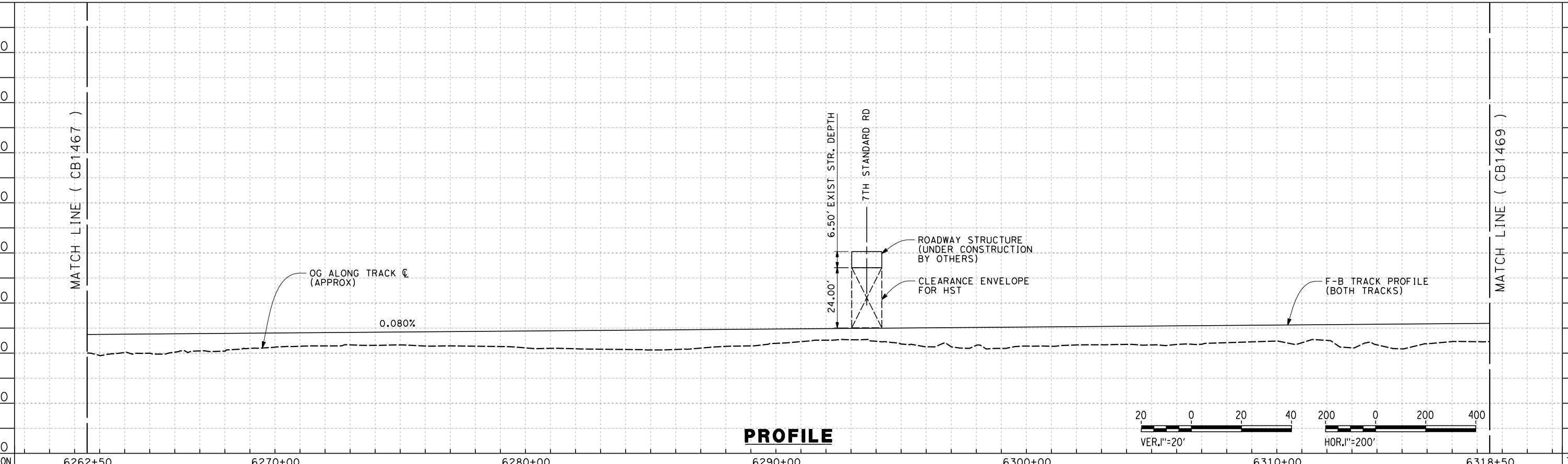
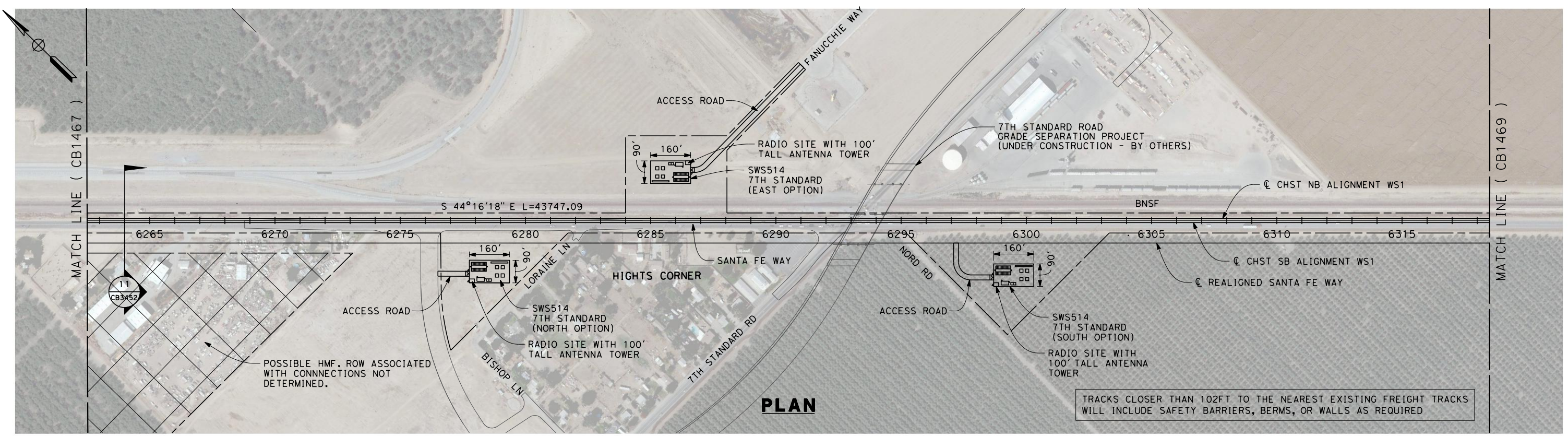


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 6206+50 TO 6262+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1467  
SCALE  
AS SHOWN  
SHEET NO.  
20 OF 32



7/18/2011 9:19:27 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 15% CCE\Noise Barrier Additions\FB-CB-1468.dgn



STATION	6262+50	6270+00	6280+00	6290+00	6300+00	6310+00	6318+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

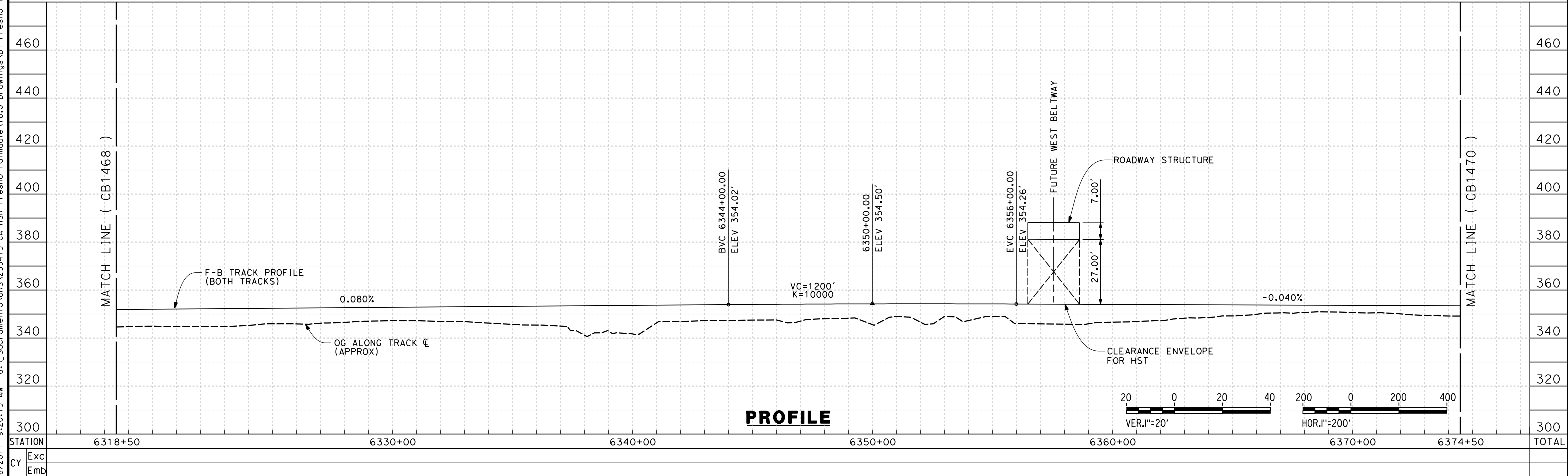
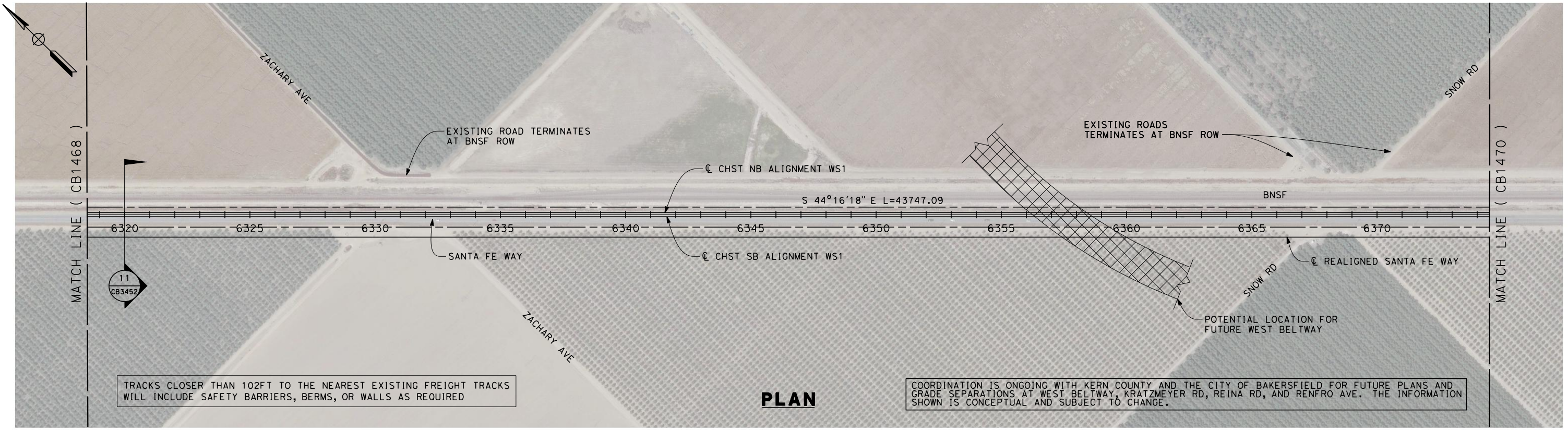


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 6262+50 TO 6318+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1468  
SCALE  
AS SHOWN  
SHEET NO.  
21 OF 32



7/18/2011 9:20:15 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 WS2 Noise Barrier Additions\FB-CB-1469.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



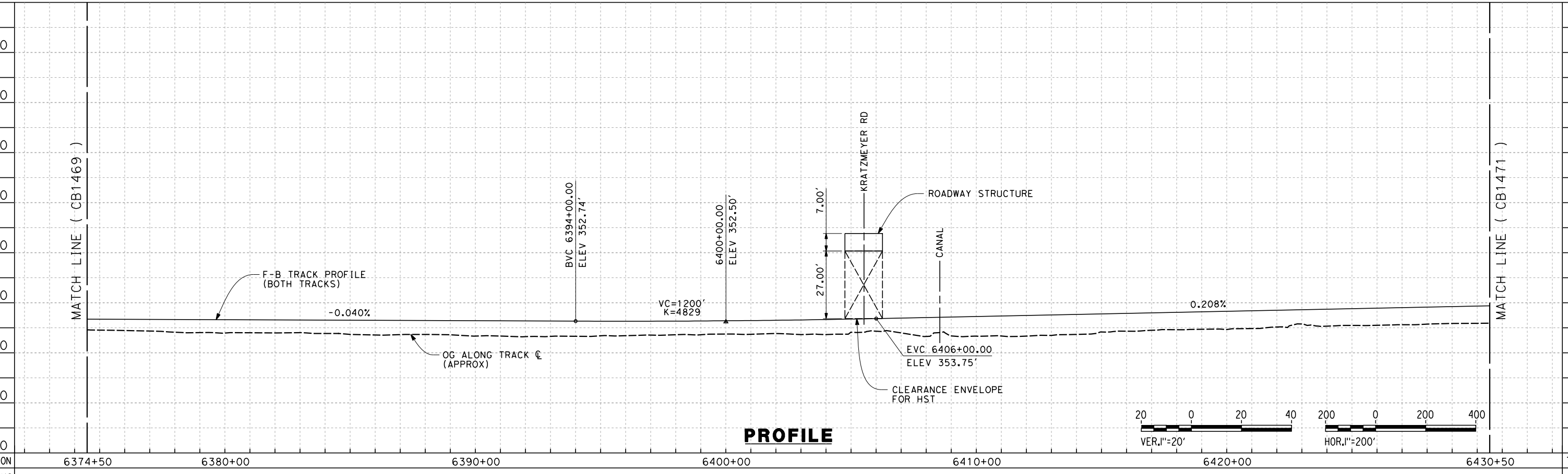
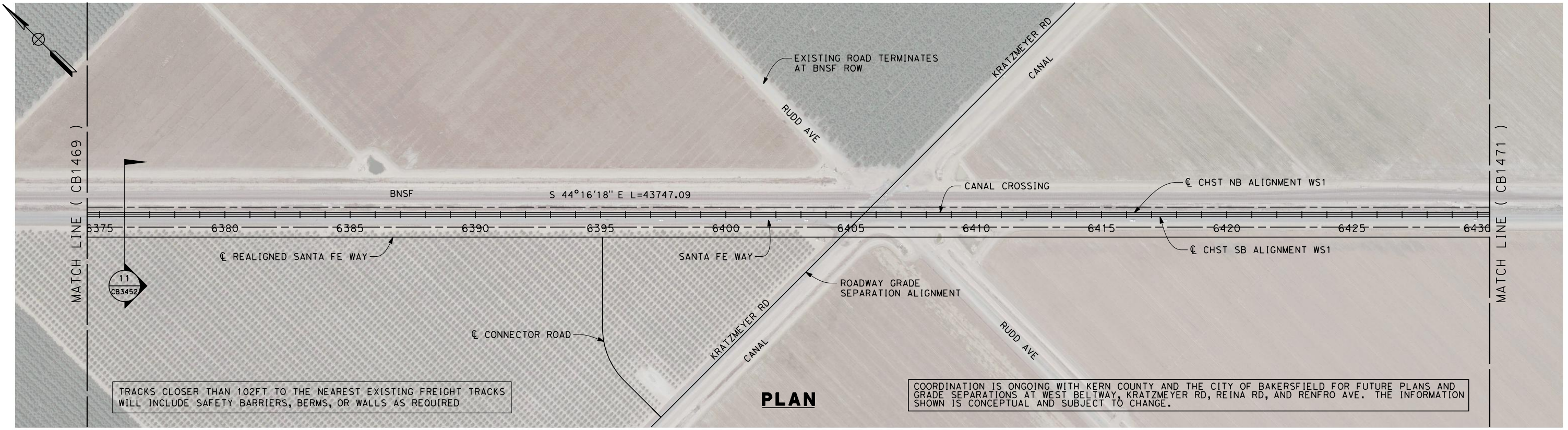
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 6318+50 TO 6374+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1469  
SCALE  
AS SHOWN  
SHEET NO.  
22 OF 32



7/19/2011 6:09:31 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 15% Noise Barrier Additions\FB-CB-1470.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. BINNING**  
DRAWN BY  
**V. ORTEGA**  
CHECKED BY  
**L. TRUJILLO**  
IN CHARGE  
**T. ROWORTH**  
DATE  
**06/30/11**

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

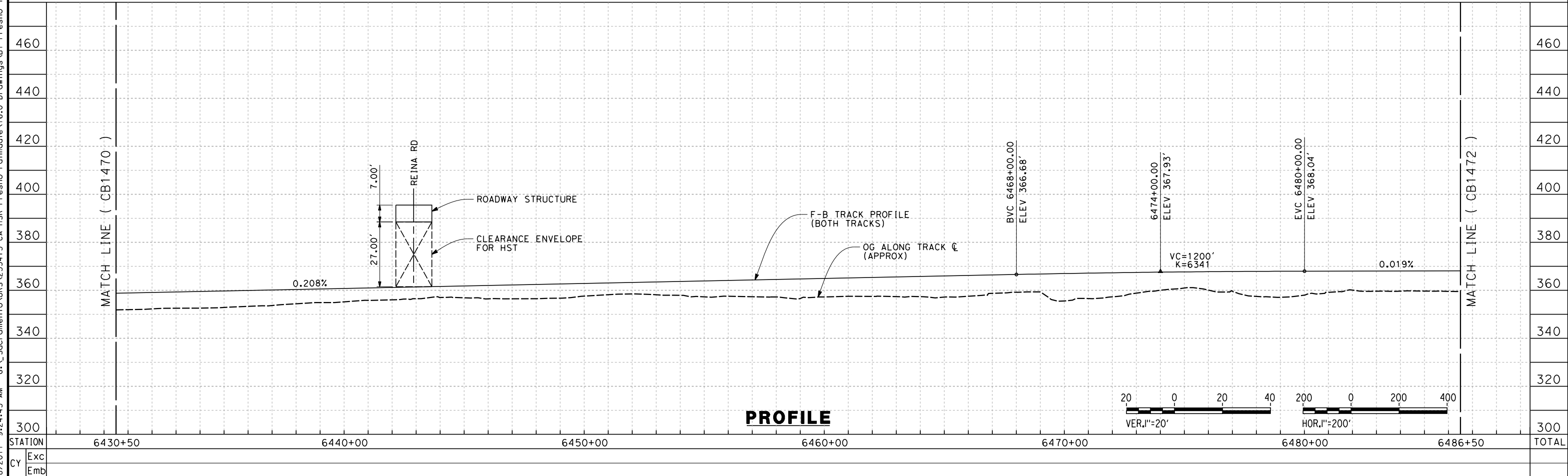
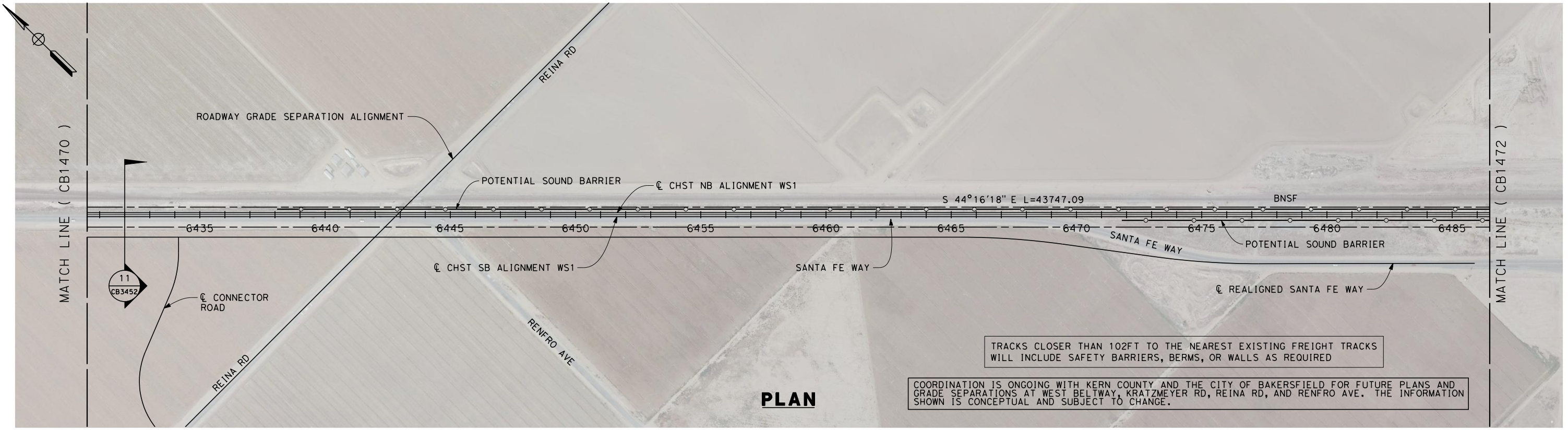


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
STA. 6374+50 TO 6430+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1470  
SCALE  
AS SHOWN  
SHEET NO.  
23 OF 32



7/18/2011 9:24:45 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 WS2 Noise Barrier Additions\FB-CB-1471.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
L. TRUJILLO  
 IN CHARGE  
T. ROWORTH  
 DATE  
06/30/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
 NOT FOR  
 CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 THROUGH WASCO-SHAFTER SUBSECTION  
 ALIGNMENT WS1  
 STA. 6430+50 TO 6486+50  
 PLAN AND PROFILE

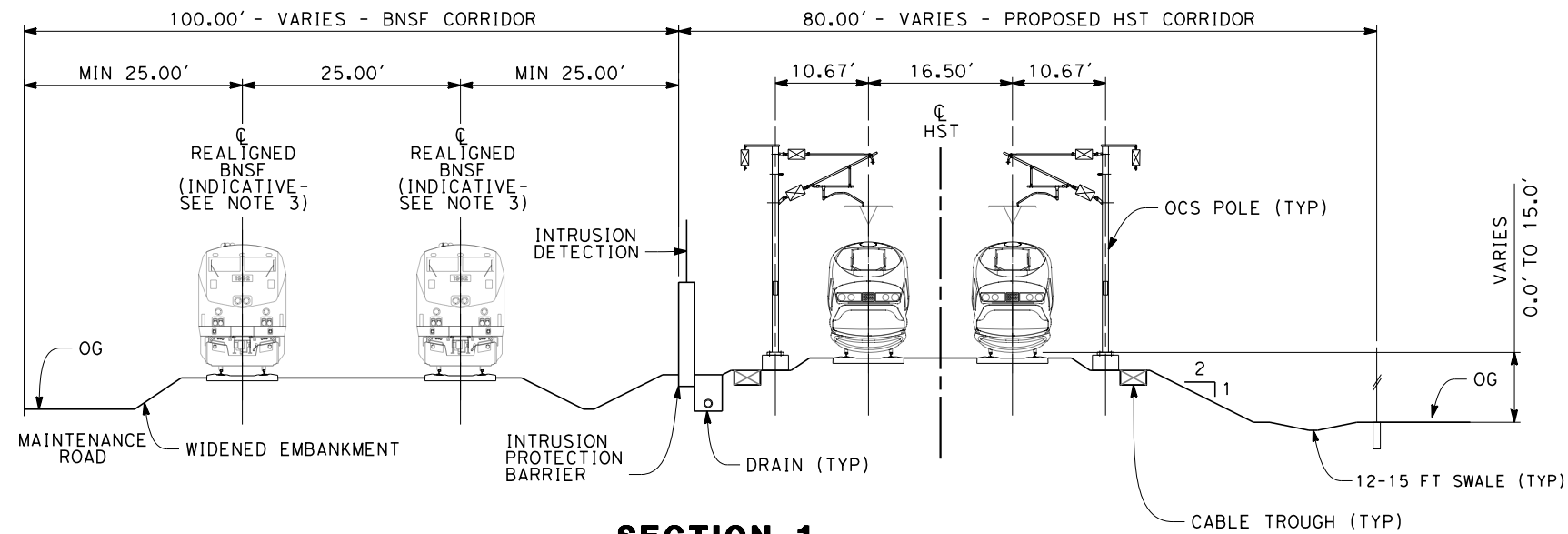
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HSR 06-0003  
 DRAWING NO.  
CB1471  
 SCALE  
AS SHOWN  
 SHEET NO.  
24 OF 32





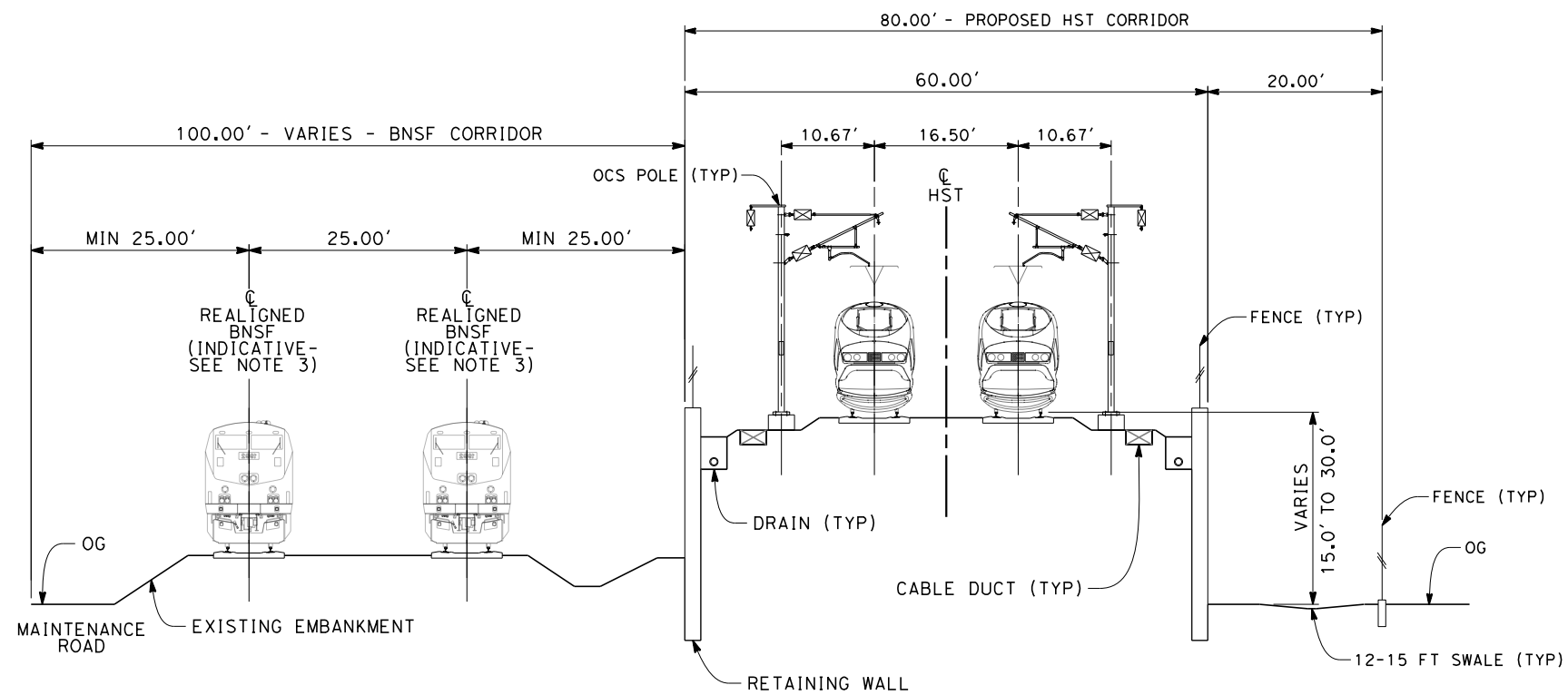


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**SECTION 1**

TWIN TRACKS ADJACENT TO BNSF - EMBANKMENT  
STA 5422+50 THROUGH STA 5521+63



**SECTION 2**

TWIN TRACKS ADJACENT TO BNSF - RETAINED EMBANKMENT  
STA 5521+63 THROUGH STA 5543+20

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE.
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
  3. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR WHERE APPLICABLE. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
J. BINNING  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



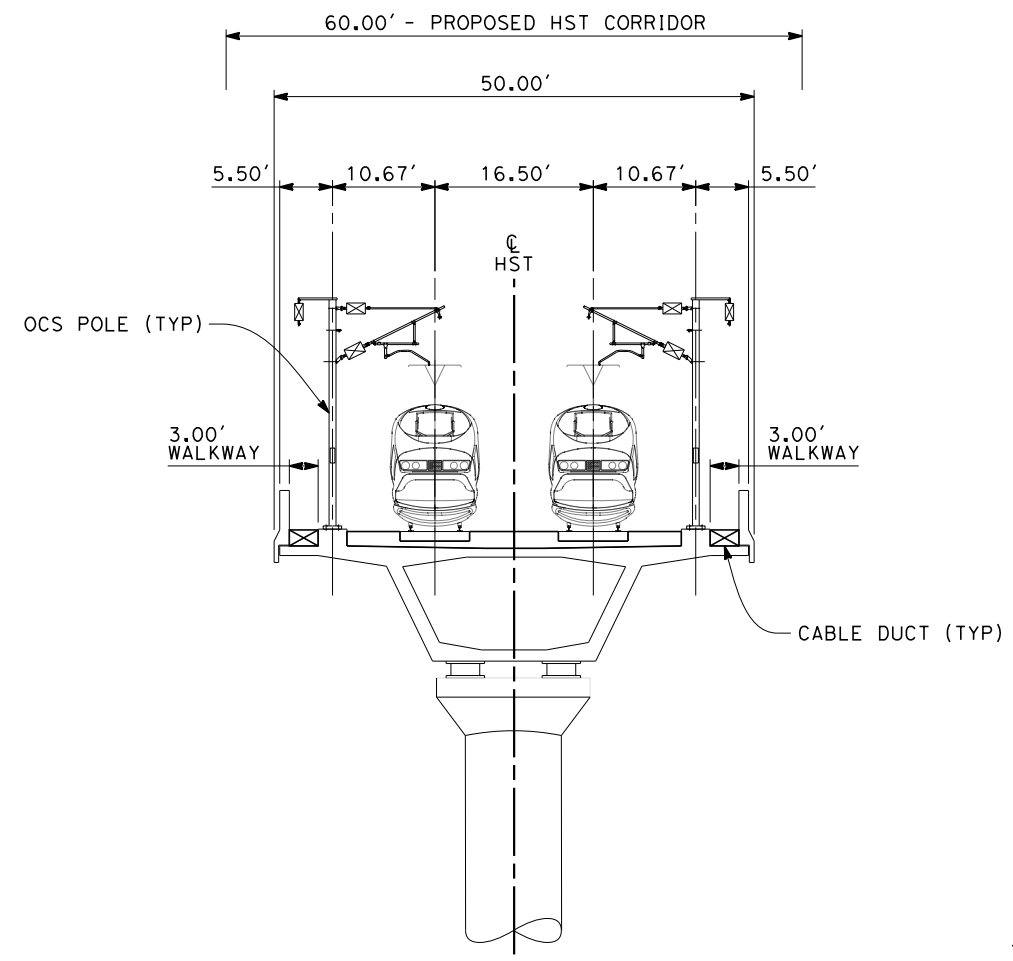
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB3446  
SCALE  
AS SHOWN  
SHEET NO.  
26 OF 32



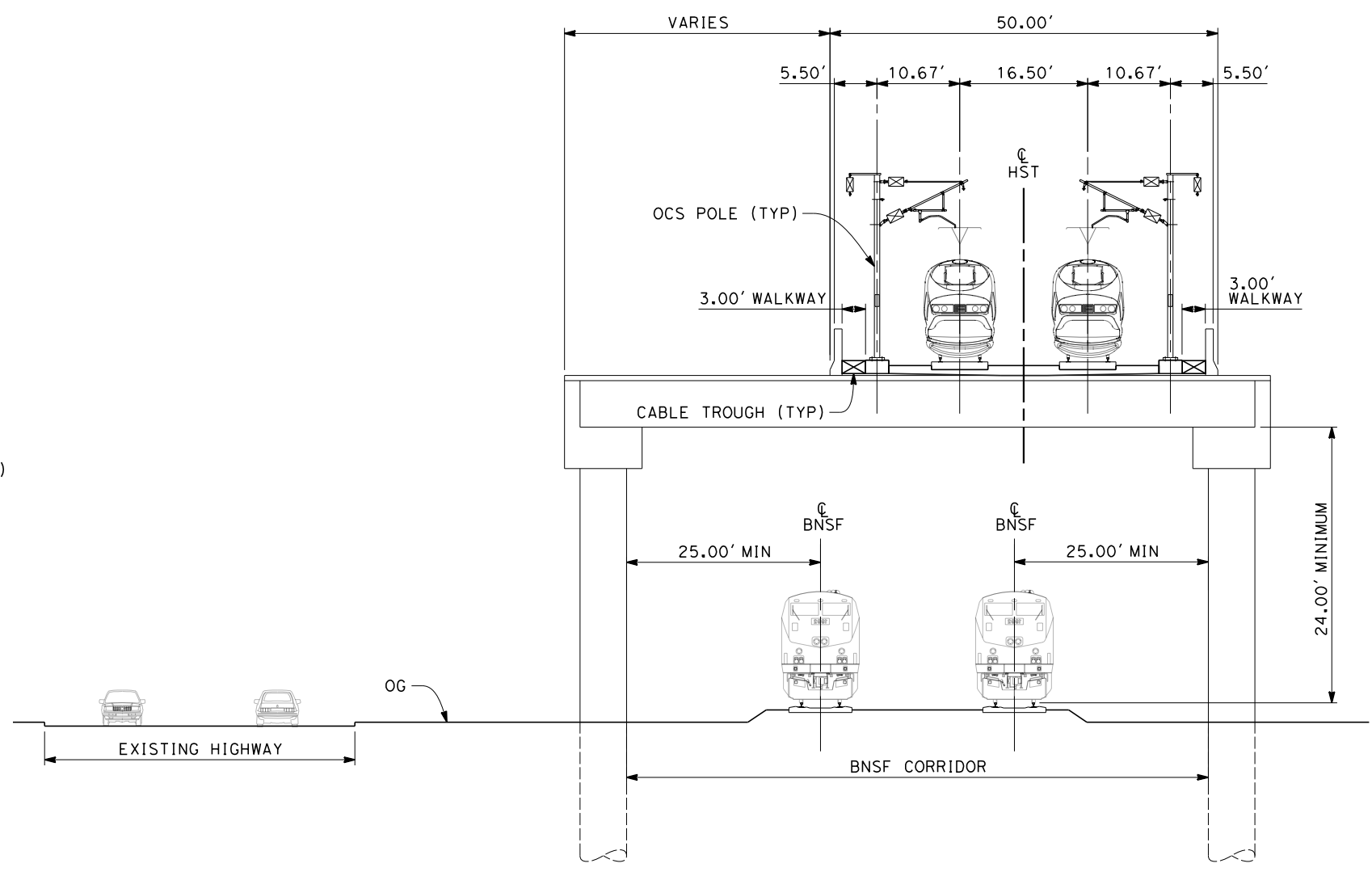
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- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE.
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
  3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



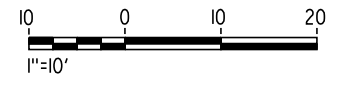
**SECTION 3**

TWIN TRACK - AERIAL STRUCTURE  
 STA 5543+20 THROUGH STA 5655+60  
 STA 5668+70 THROUGH STA 5681+90  
 STA 5951+05 THROUGH STA 5996+00



**SECTION 4**

TWIN TRACK - ELEVATED SLAB OVER BNSF  
 STA 5655+60 THROUGH STA 5668+70



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T. ROWORTH  
 DATE  
05/13/11

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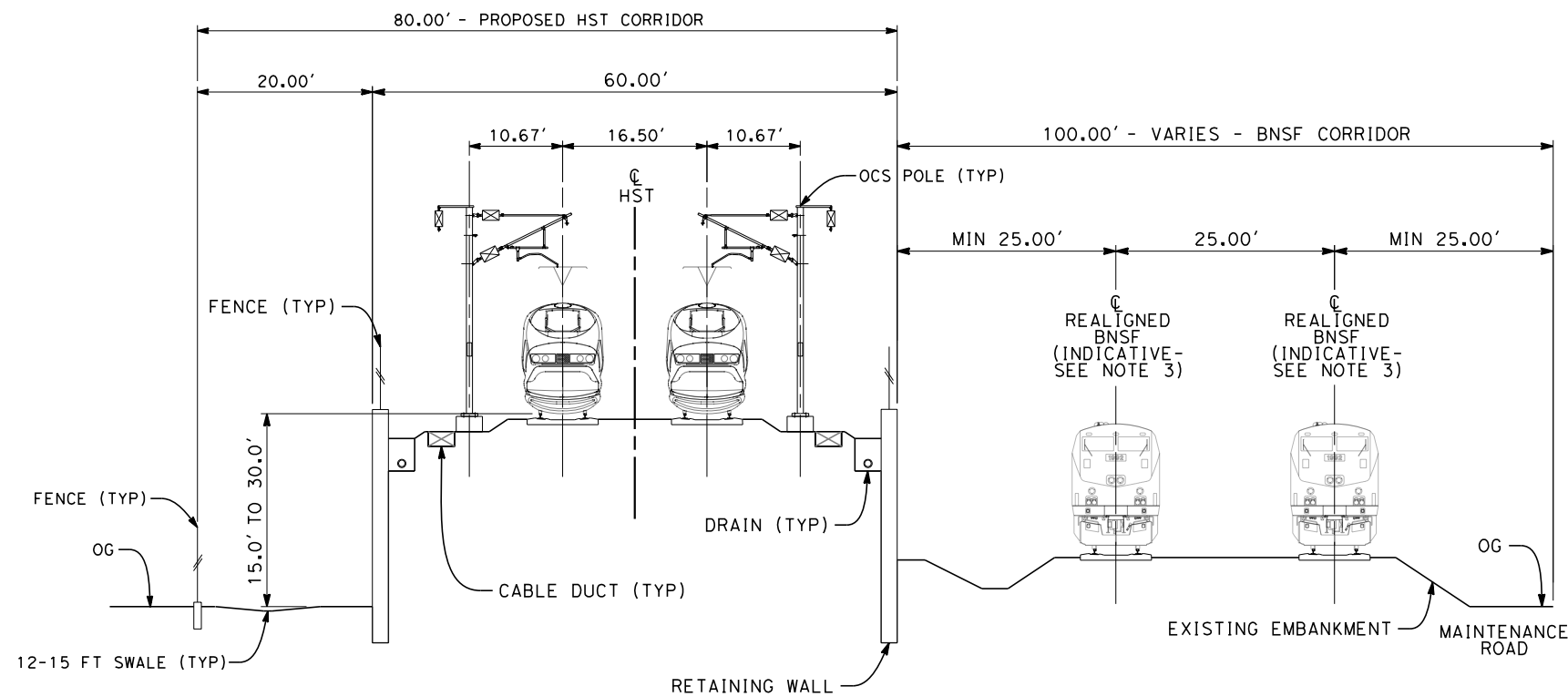


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 THROUGH WASCO-SHAFTER SUBSECTION  
 ALIGNMENT WS1  
 CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB3447  
 SCALE  
AS SHOWN  
 SHEET NO.  
27 OF 32



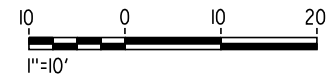
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- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE.
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
  3. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR WHERE APPLICABLE. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.

**SECTION 5**

TWIN TRACK ADJACENT TO BNSF - RETAINED EMBANKMENT  
 STA 5681+90 THROUGH STA 5703+13  
 STA 5931+72 THROUGH STA 5951+05



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
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V. ORTEGA  
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 IN CHARGE  
T. ROWORTH  
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05/13/11

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 DESIGN SUBMISSION**  
 -  
**NOT FOR  
 CONSTRUCTION**

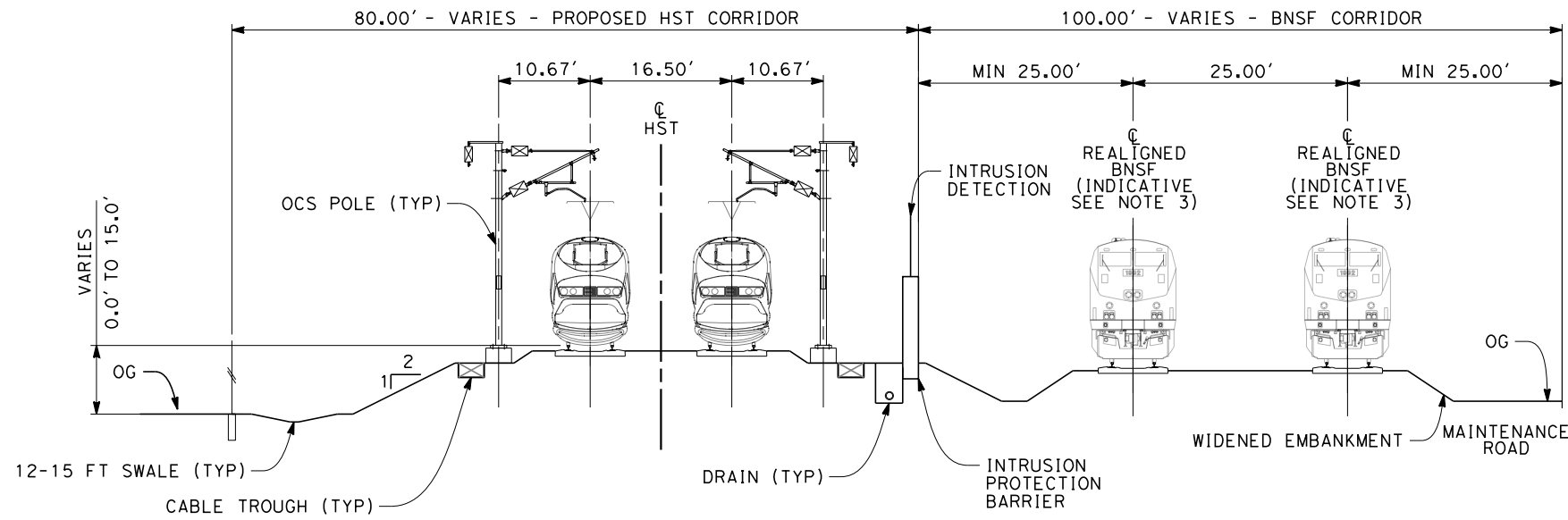


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 THROUGH WASCO-SHAFTER SUBSECTION  
 ALIGNMENT WS1  
 CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB3448  
 SCALE  
AS SHOWN  
 SHEET NO.  
28 OF 32

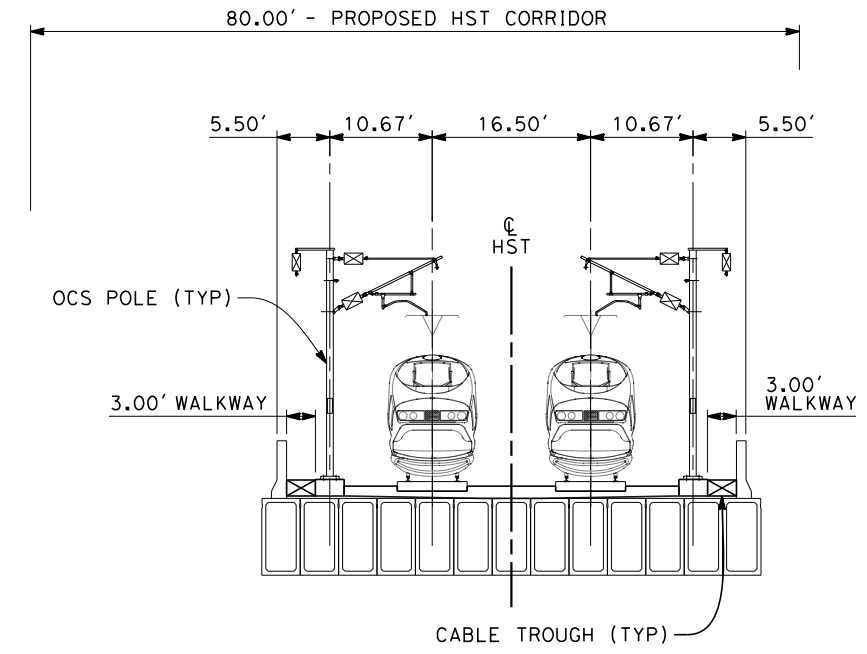


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**SECTION 6**

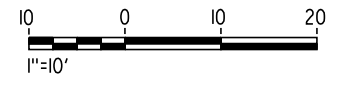
TWIN TRACK ADJACENT TO BNSF - EMBANKMENT  
 STA 5703+13 THROUGH STA 5716+07  
 STA 5716+57 THROUGH STA 5931+72



**SECTION 7**

TWIN TRACK - BOX GIRDER BRIDGE  
 STA 5716+07 THROUGH STA 5716+57

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE.
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
  3. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR WHERE APPLICABLE. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
J. BINNING  
 IN CHARGE  
T. ROWORTH  
 DATE  
05/13/11

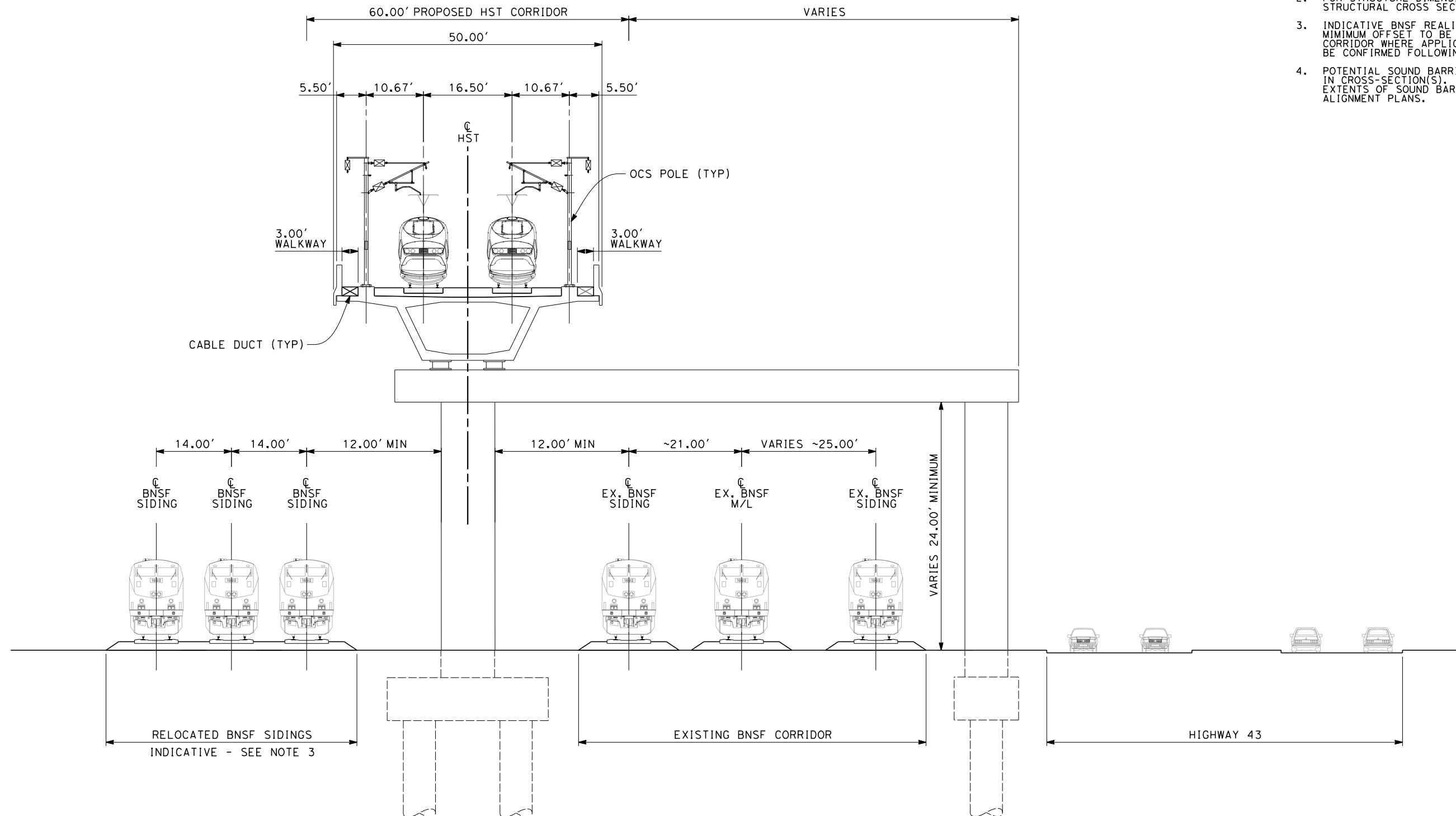
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 THROUGH WASCO-SHAFTER SUBSECTION  
 ALIGNMENT WS1  
 CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB3449  
 SCALE  
AS SHOWN  
 SHEET NO.  
29 OF 32

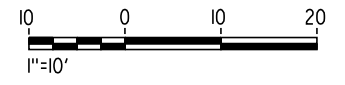
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- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE.
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
  3. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR WHERE APPLICABLE. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.

**SECTION 8**

TWIN TRACK AERIAL STRUCTURE - ADJACENT TO BNSF YARD  
STA 5996+00 THROUGH STA 6039+00



REV	DATE	BY	CHK	APP	DESCRIPTION

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V. ORTEGA  
CHECKED BY  
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IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

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CONSTRUCTION**



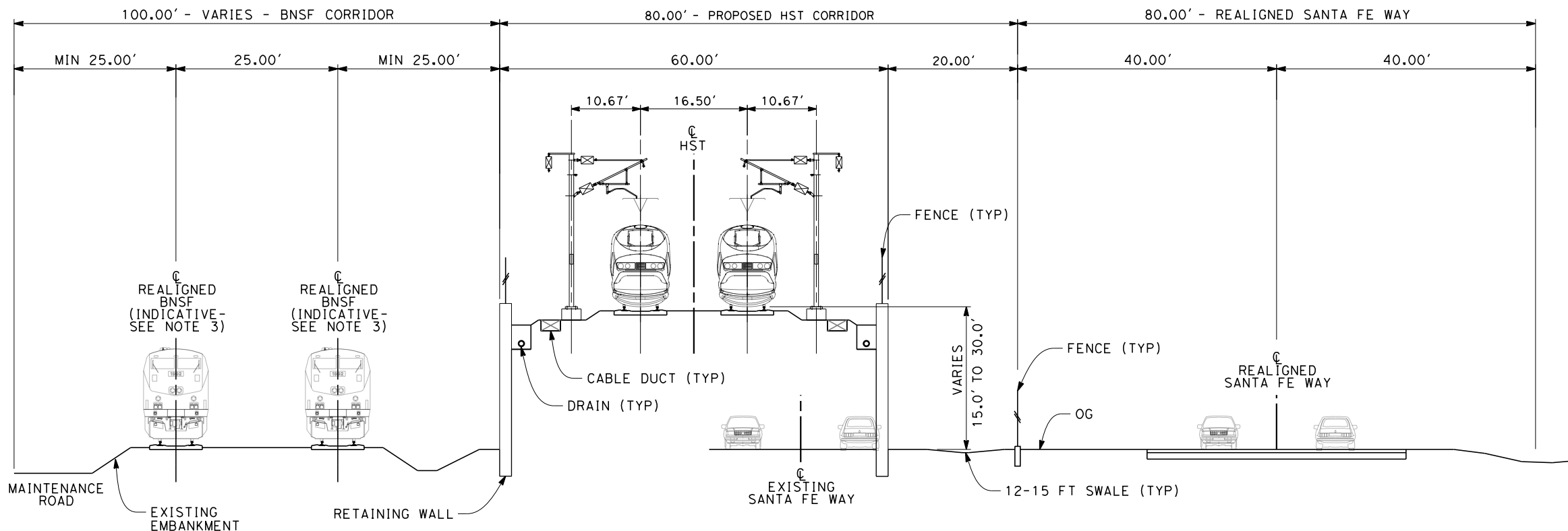
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB3450  
SCALE  
AS SHOWN  
SHEET NO.  
30 OF 32





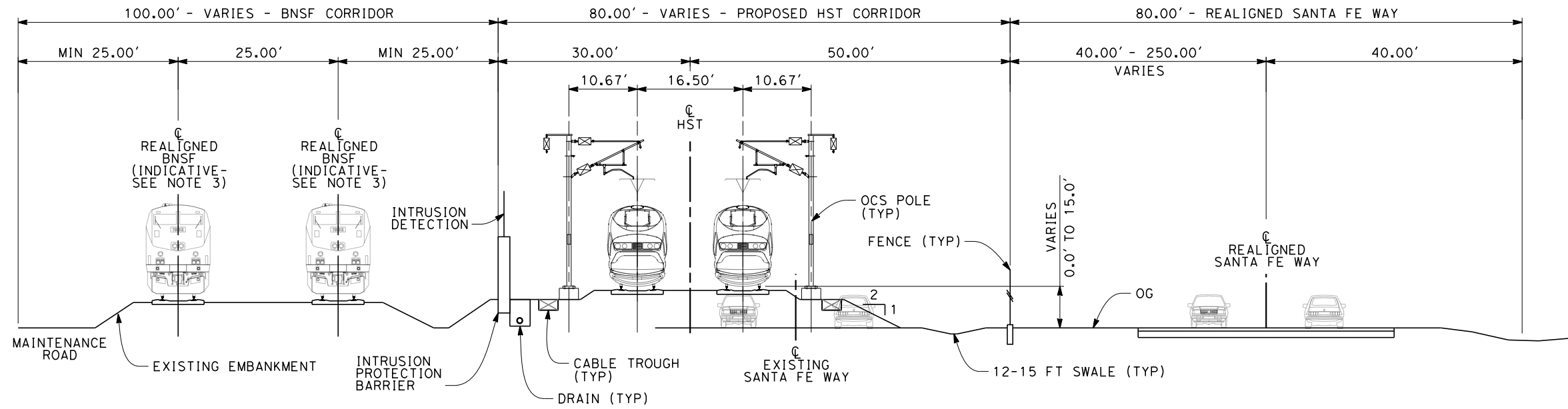
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- NOTES:**
1. TRACKFORM SHOWN IS INDICATIVE.
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
  3. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR WHERE APPLICABLE. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.

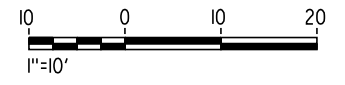
**SECTION 10**

TWIN TRACK ADJACENT TO BNSF - RETAINED EMBANKMENT WITH SANTA FE WAY REALIGNMENT  
STA 6119+00 THROUGH STA 6128+00



**SECTION 11**

TWIN TRACK ADJACENT TO BNSF - EMBANKMENT WITH SANTA FE WAY REALIGNMENT  
STA 6128+00 THROUGH STA 6511+95.52



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
J. BINNING  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

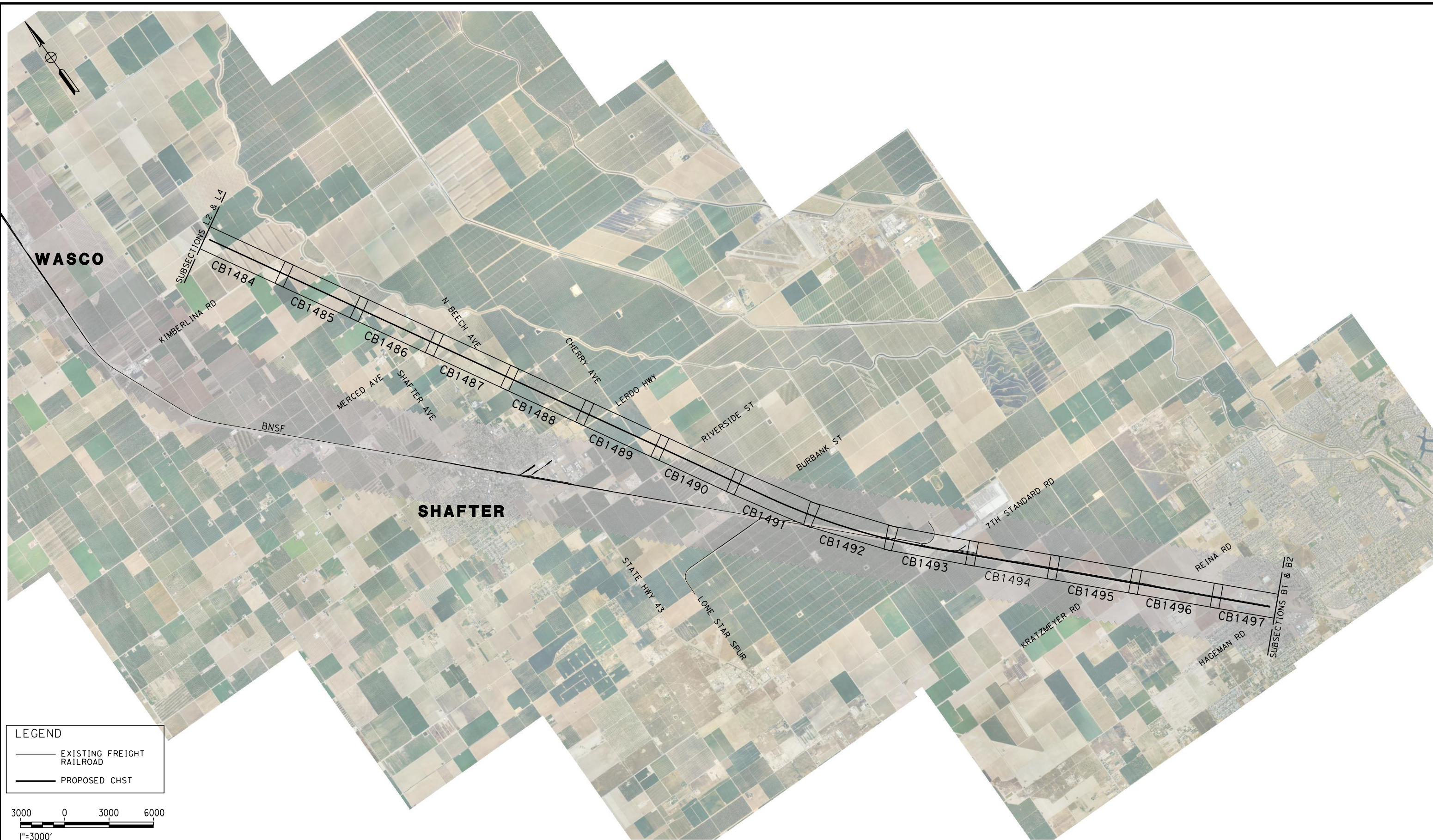


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS1  
CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB3452  
SCALE  
AS SHOWN  
SHEET NO.  
32 OF 32



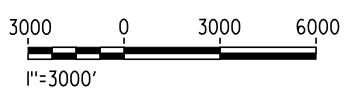
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**LEGEND**

— EXISTING FREIGHT RAILROAD

— PROPOSED CHST



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING

DRAWN BY  
T. PRETZER

CHECKED BY  
L. TRUJILLO

IN CHARGE  
T. ROWORTH

DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
STA. 5703+34.65 TO 6468+55.80  
KEY MAP

CONTRACT NO.  
HSR 06-0003

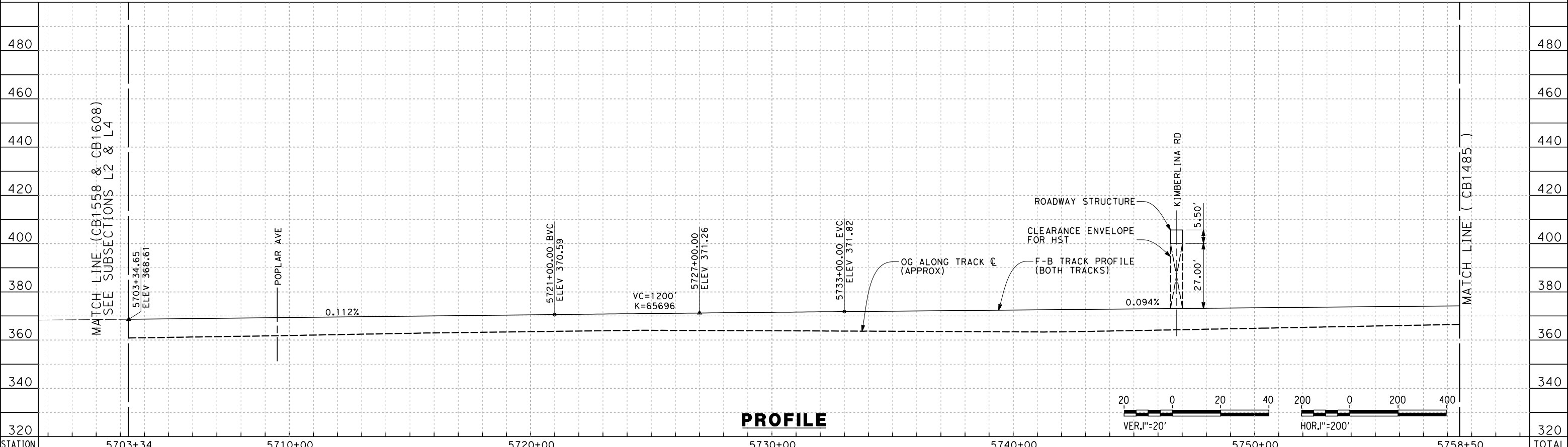
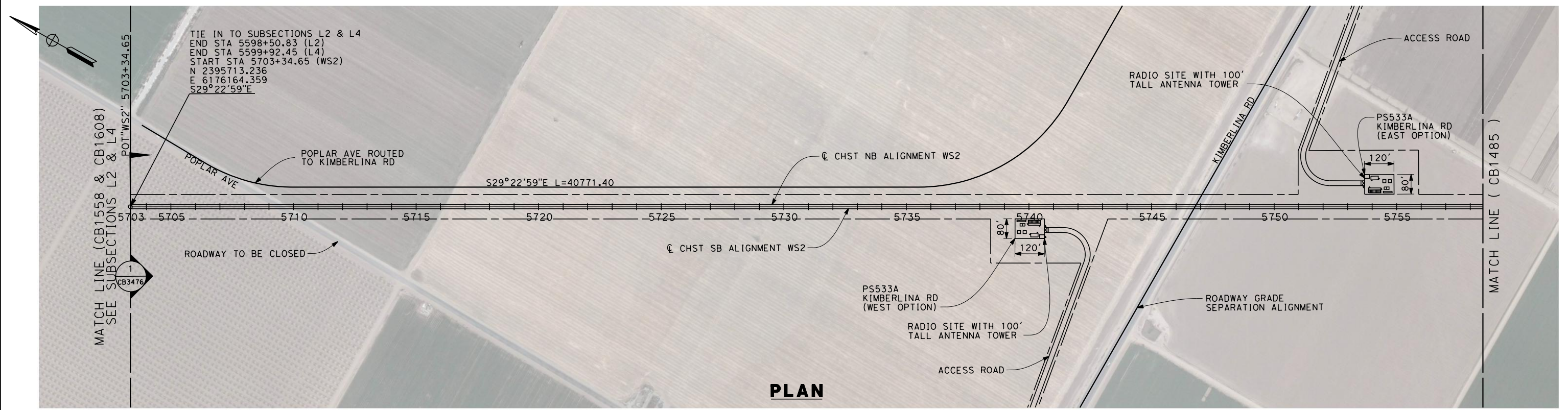
DRAWING NO.  
CB1483

SCALE  
AS SHOWN

SHEET NO.  
1 OF 19



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STATION	5703+34	5710+00	5720+00	5730+00	5740+00	5750+00	5758+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO

DRAWN BY  
V. ORTEGA

CHECKED BY  
L. TRUJILLO

IN CHARGE  
T. ROWORTH

DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 STA. 5703+34.65 TO 5758+50  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003

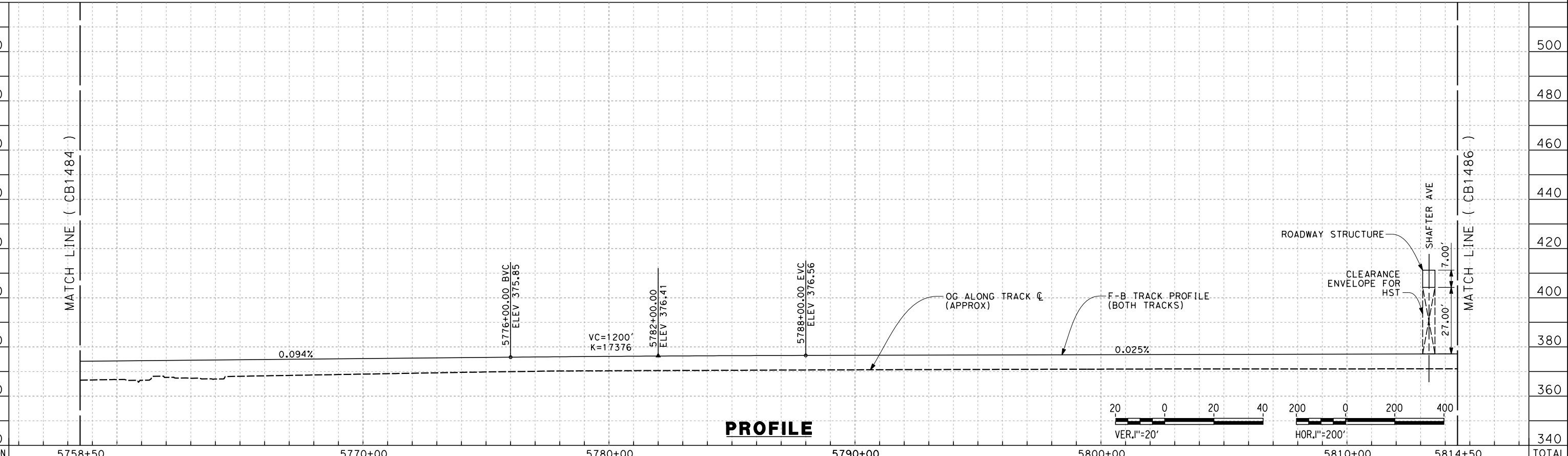
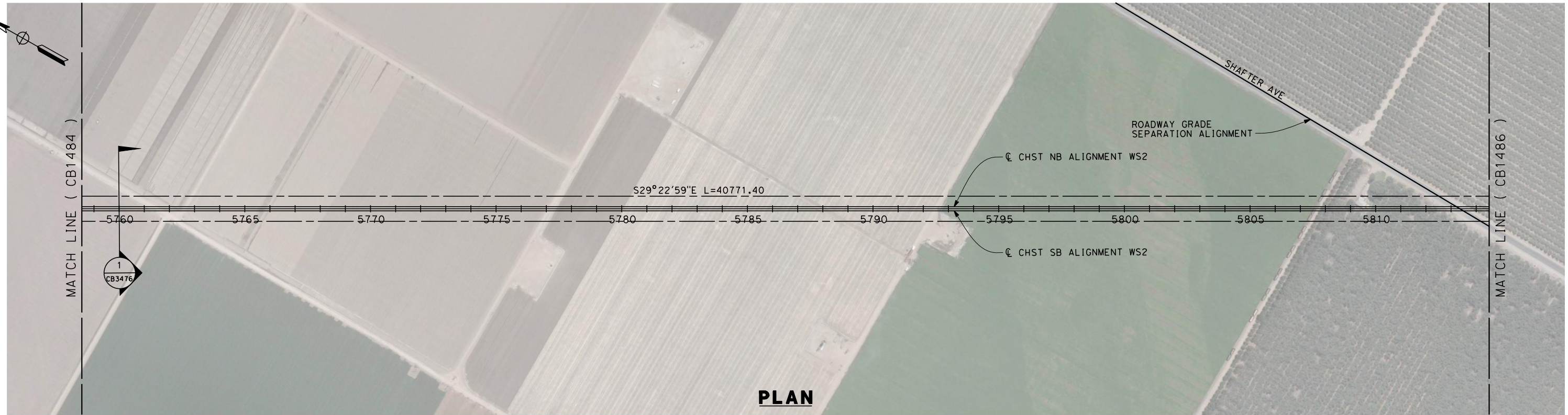
DRAWING NO.  
CB1484

SCALE  
AS SHOWN

SHEET NO.  
2 OF 19



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STATION	5758+50	5770+00	5780+00	5790+00	5800+00	5810+00	5814+50	TOTAL
CY	Exc							
	Emb							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



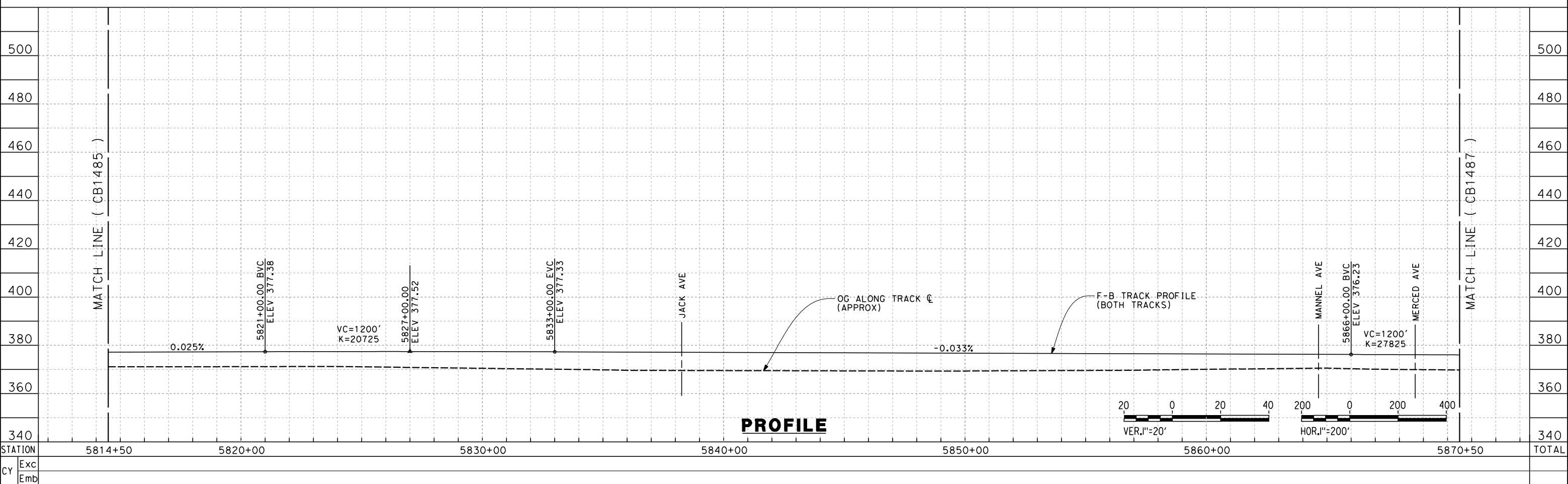
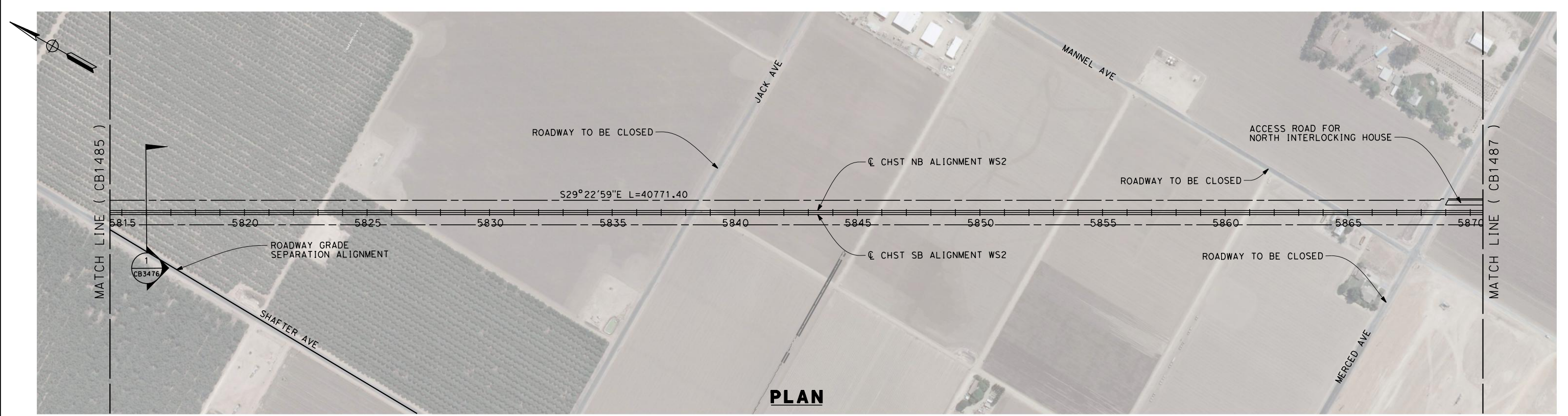
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
STA. 5758+50 TO 5814+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1485  
SCALE  
AS SHOWN  
SHEET NO.  
3 OF 19



5/11/2011 7:10:54 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CB-1486.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



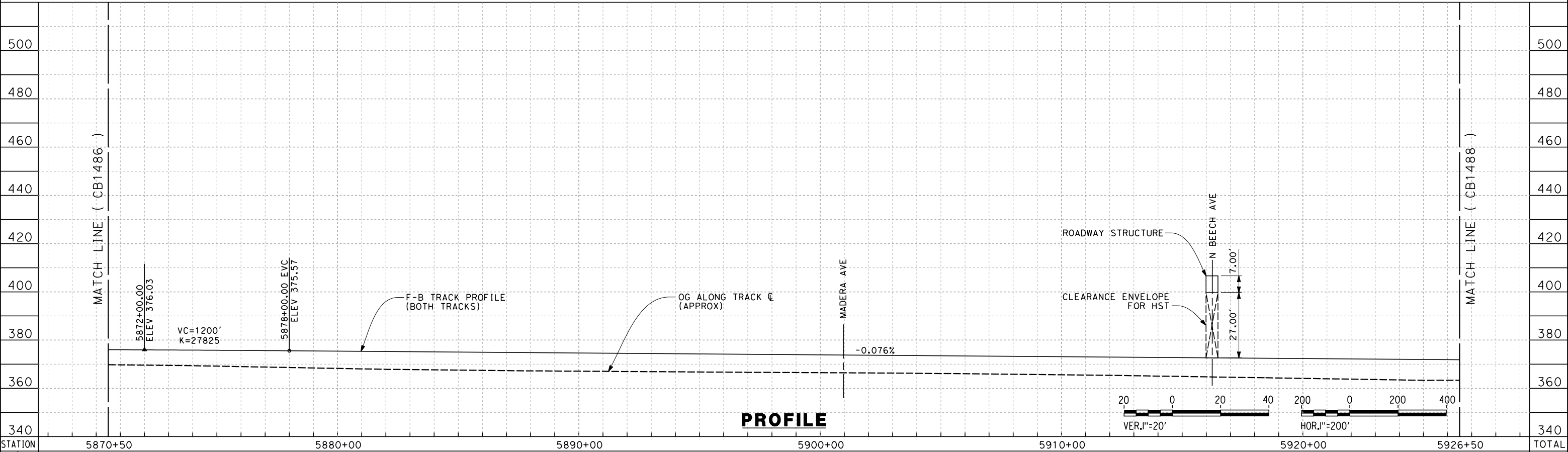
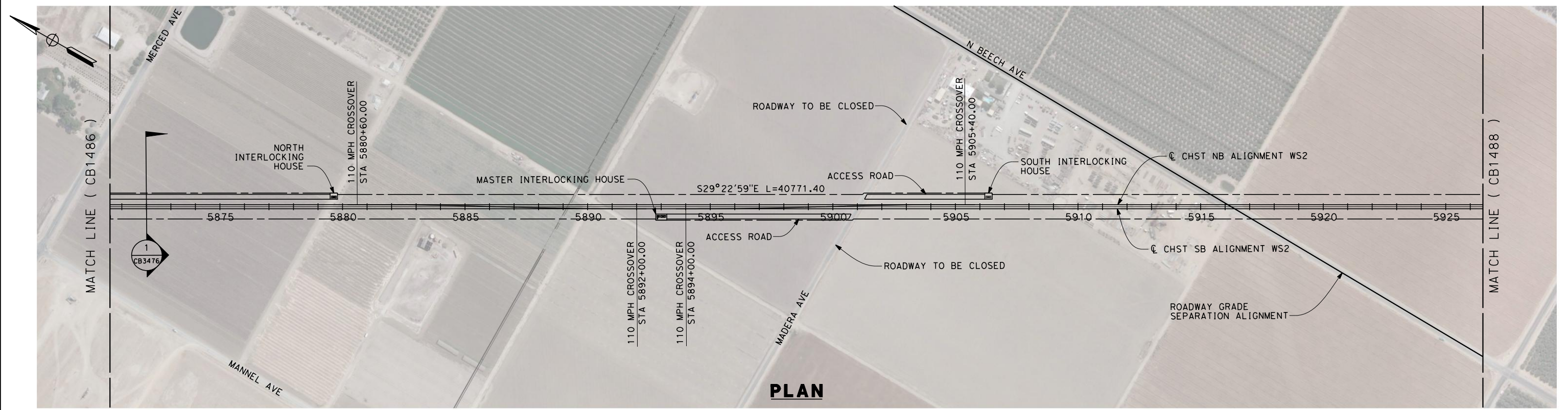
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
STA. 5814+50 TO 5870+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1486  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 19



5/12/2011 12:59:59 PM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CB-1487.dgn



STATION	5870+50	5880+00	5890+00	5900+00	5910+00	5920+00	5926+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

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CONSTRUCTION**



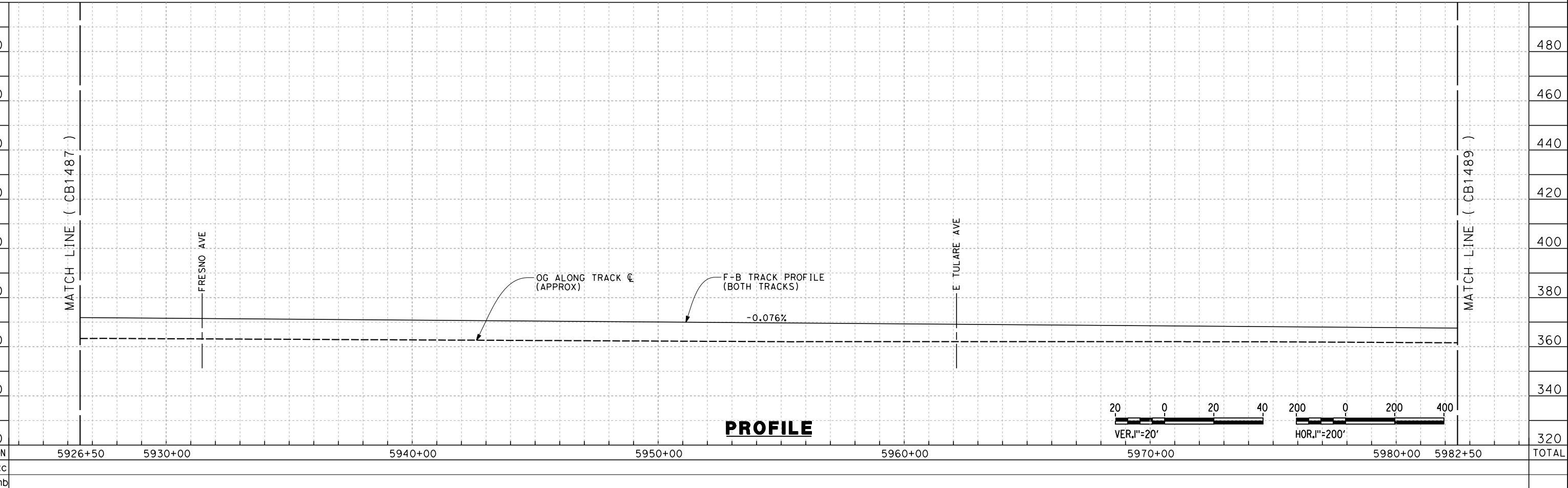
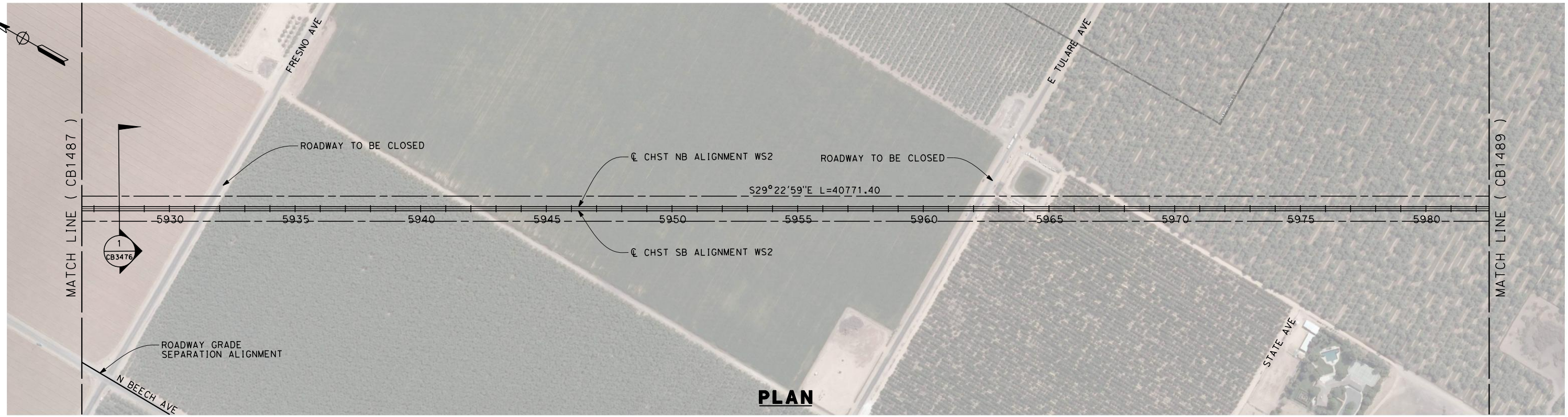
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
STA. 5870+50 TO 5926+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1487  
SCALE  
AS SHOWN  
SHEET NO.  
5 OF 19



5/11/2011 7:15:22 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CB-1488.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

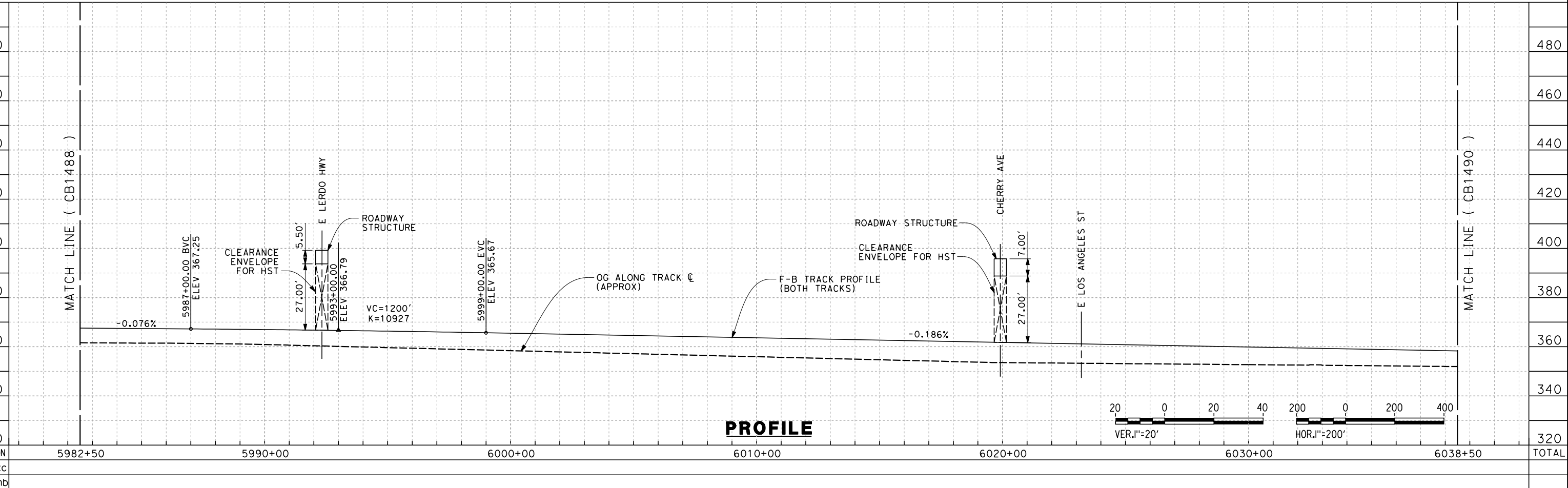
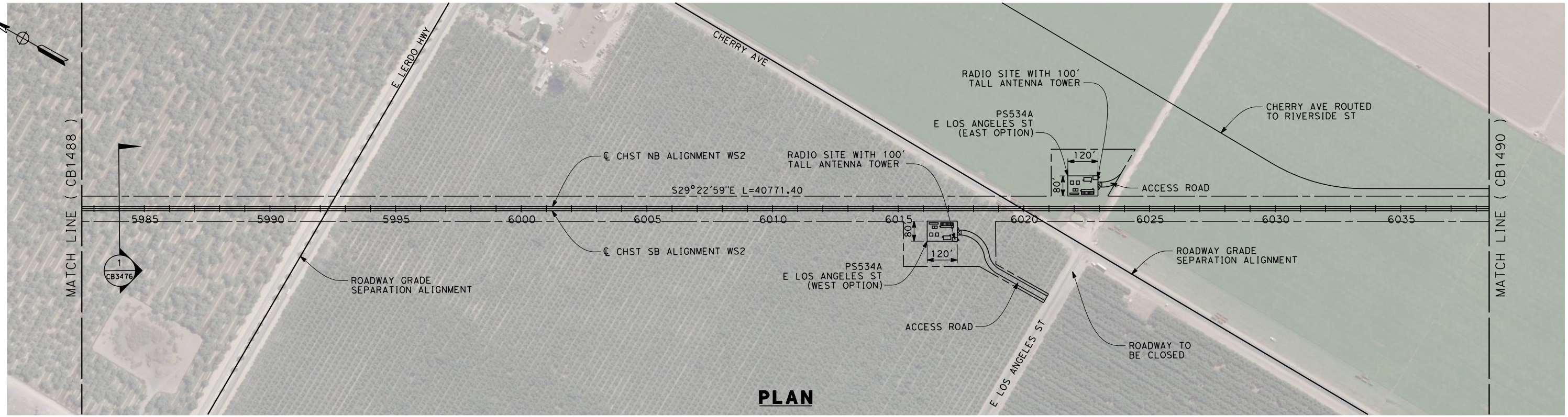


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
STA. 5926+50 TO 5982+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1488  
SCALE  
AS SHOWN  
SHEET NO.  
6 OF 19



5/12/2011 2:54:47 PM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CB-1489.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

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CONSTRUCTION**



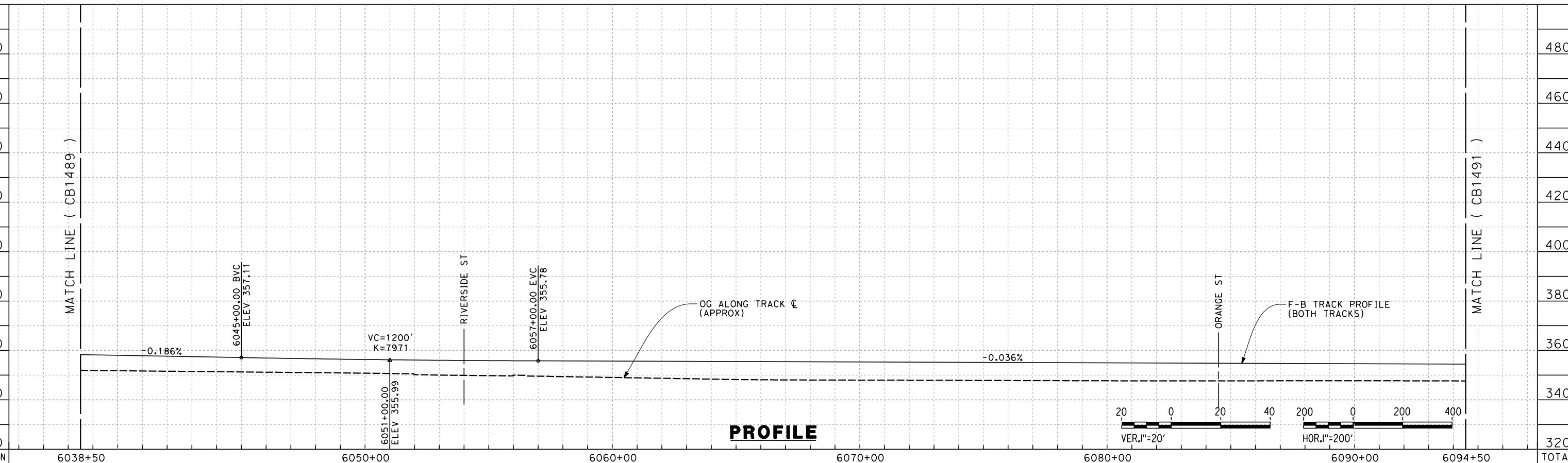
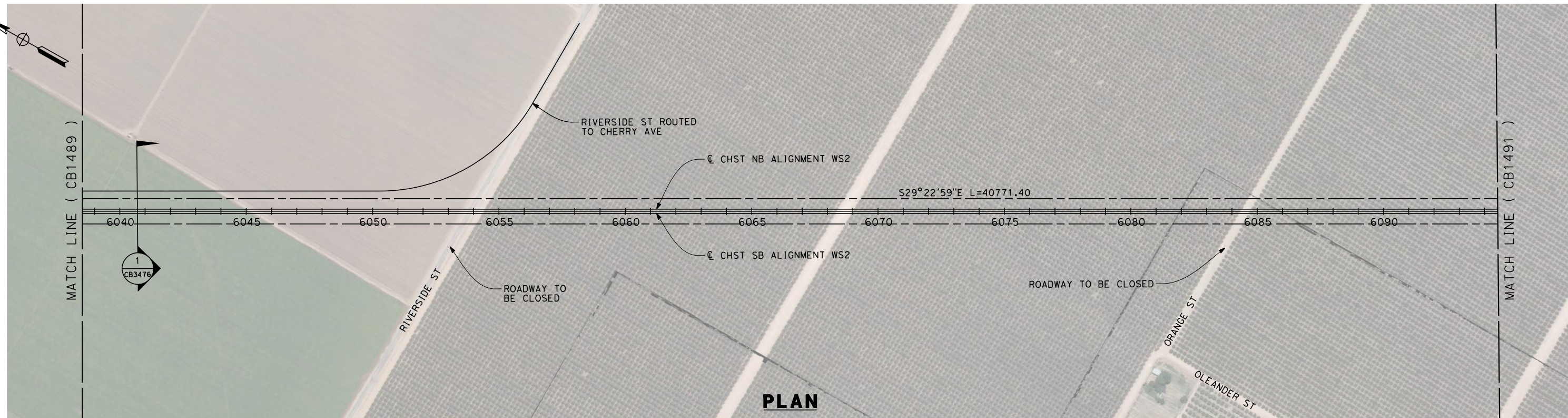
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
STA. 5982+50 TO 6038+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1489  
SCALE  
AS SHOWN  
SHEET NO.  
7 OF 19



5/11/2011 7:42:38 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CB-1490.dgn



STATION	6038+50	6050+00	6060+00	6070+00	6080+00	6090+00	6094+50	TOTAL
Exc								
Emb								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

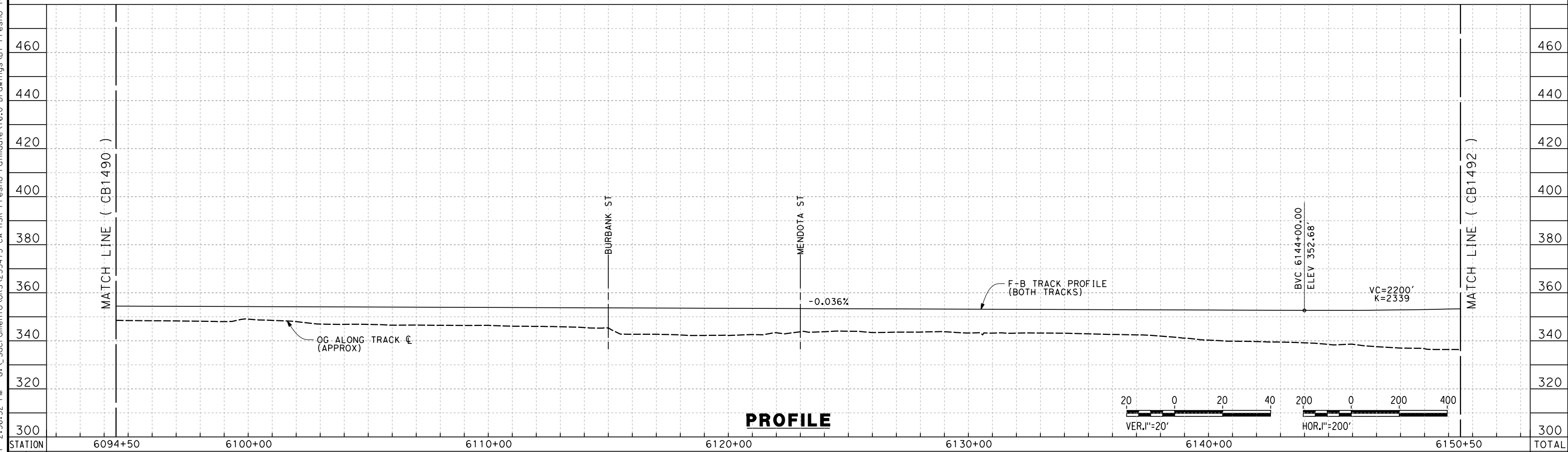
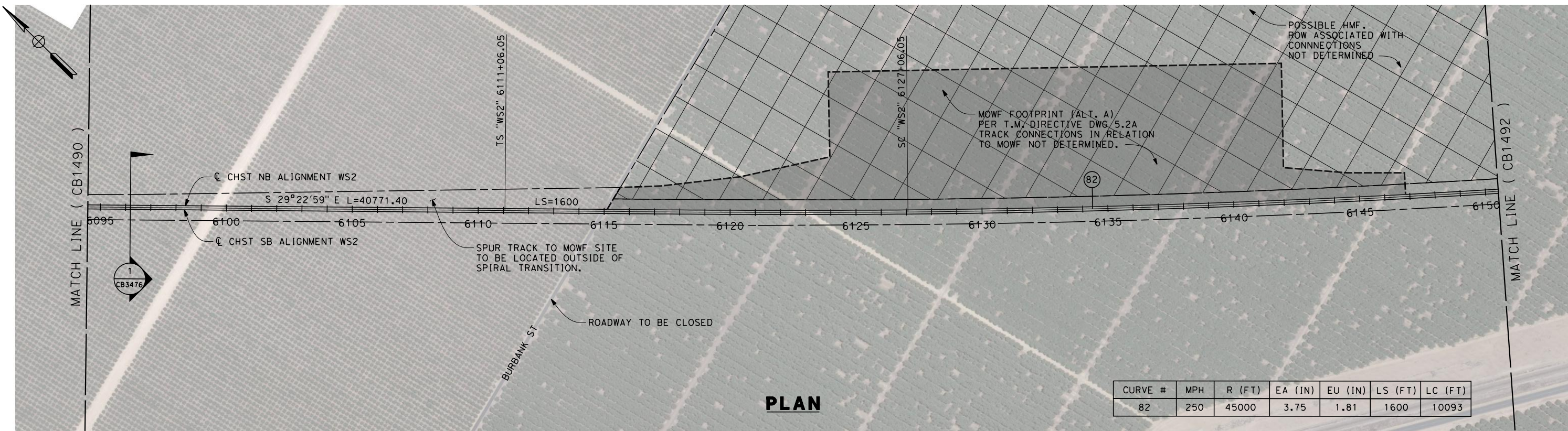


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
STA. 6038+50 TO 6094+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1490  
SCALE  
AS SHOWN  
SHEET NO.  
8 OF 19



5/12/2011 2:56:32 PM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\FB-CB-1491.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
T. PRETZER  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

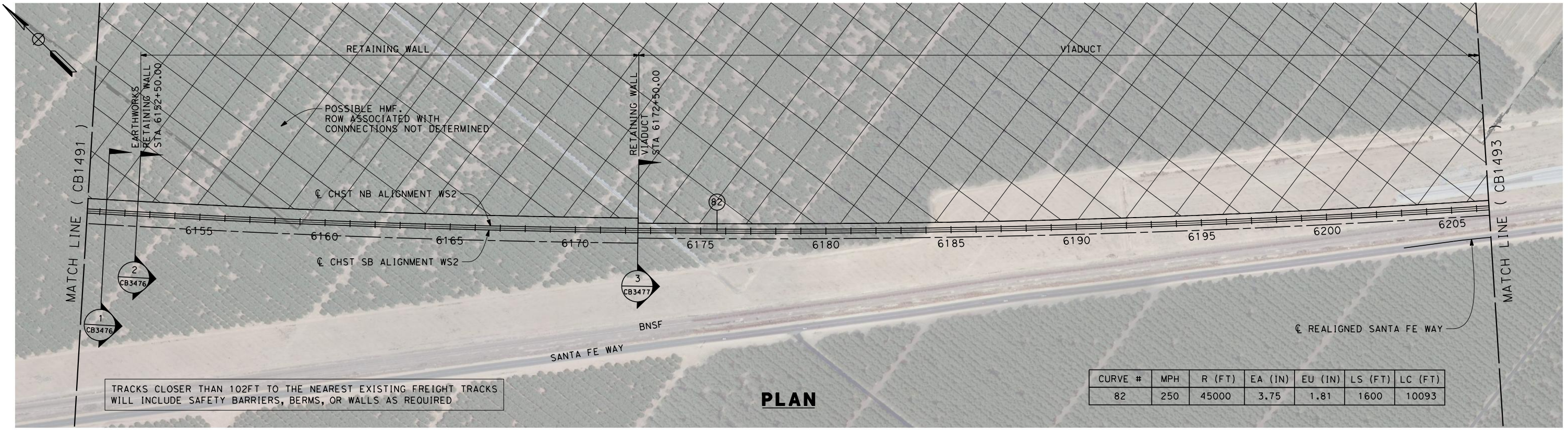


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
STA. 6094+50 TO 6150+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1491  
SCALE  
AS SHOWN  
SHEET NO.  
9 OF 19

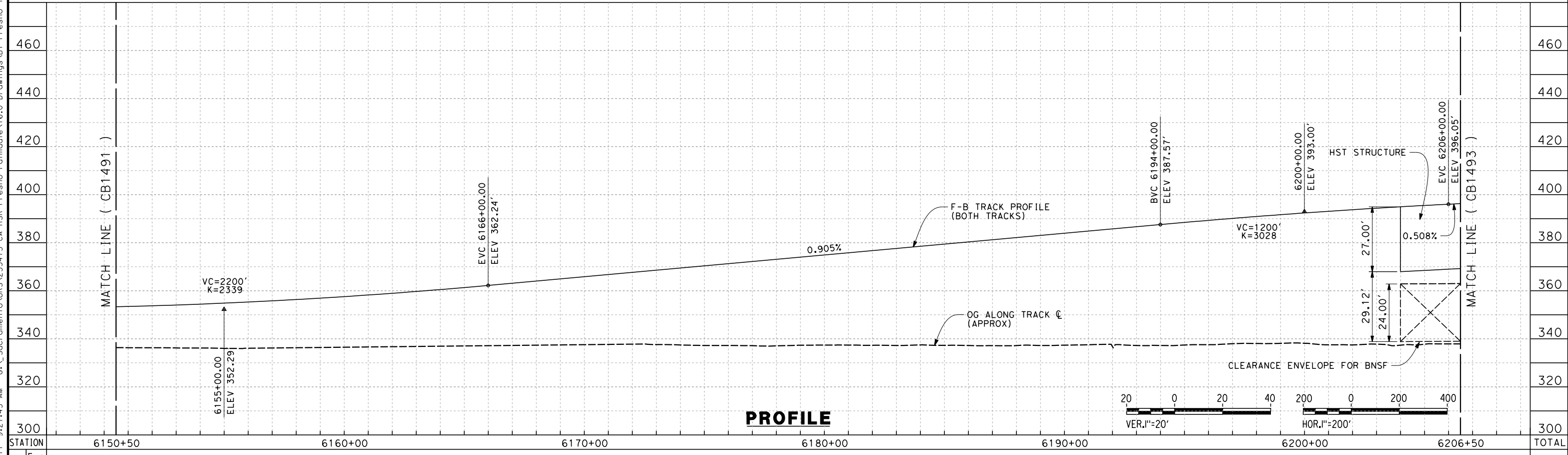


7/18/2011 9:27:43 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS2 Noise Barrier Additions\FB-CB-1492.dgn



**PLAN**

TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



**PROFILE**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
T. PRETZER  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

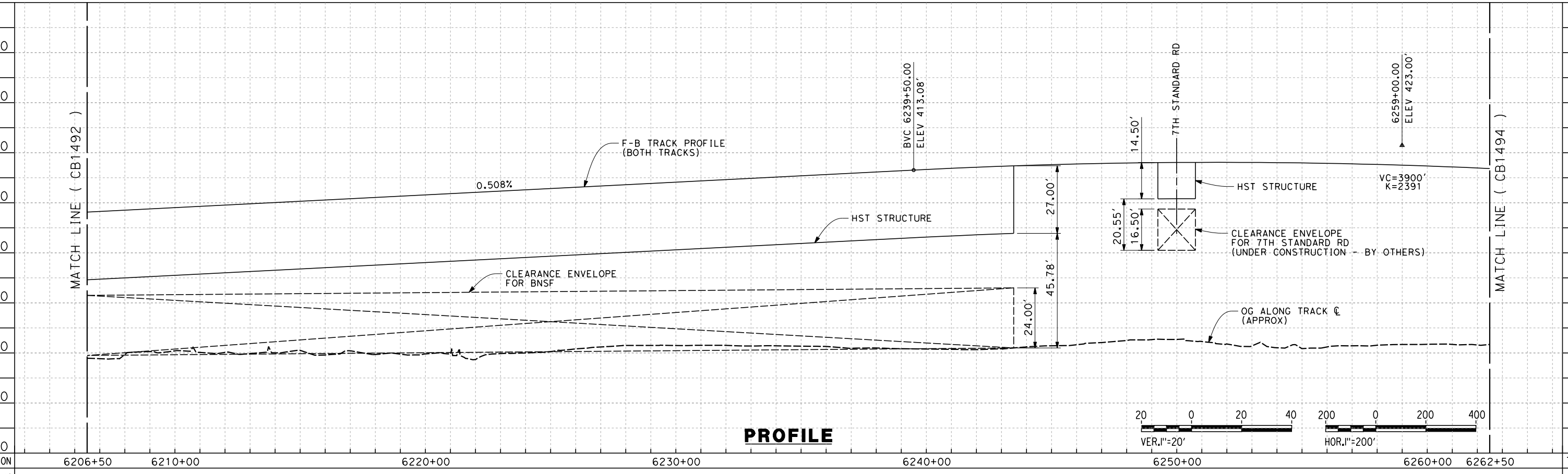
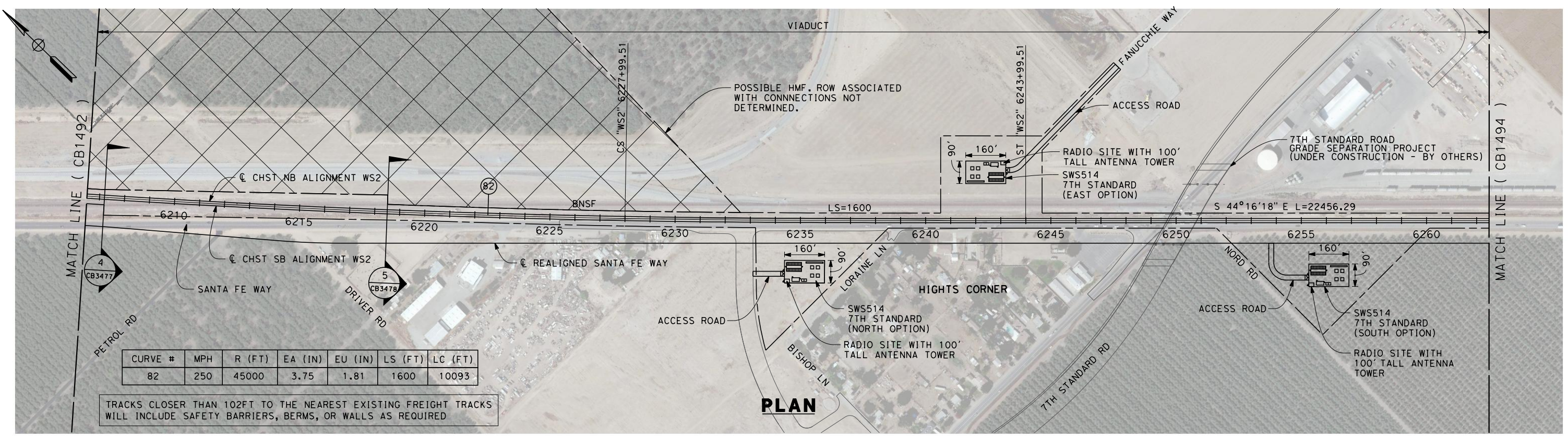


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
STA. 6150+50 TO 6206+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1492  
SCALE  
AS SHOWN  
SHEET NO.  
10 OF 19



7/18/2011 9:31:21 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 WS2 Noise Barrier Additions\FB-CB-1493.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
T. PRETZER  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

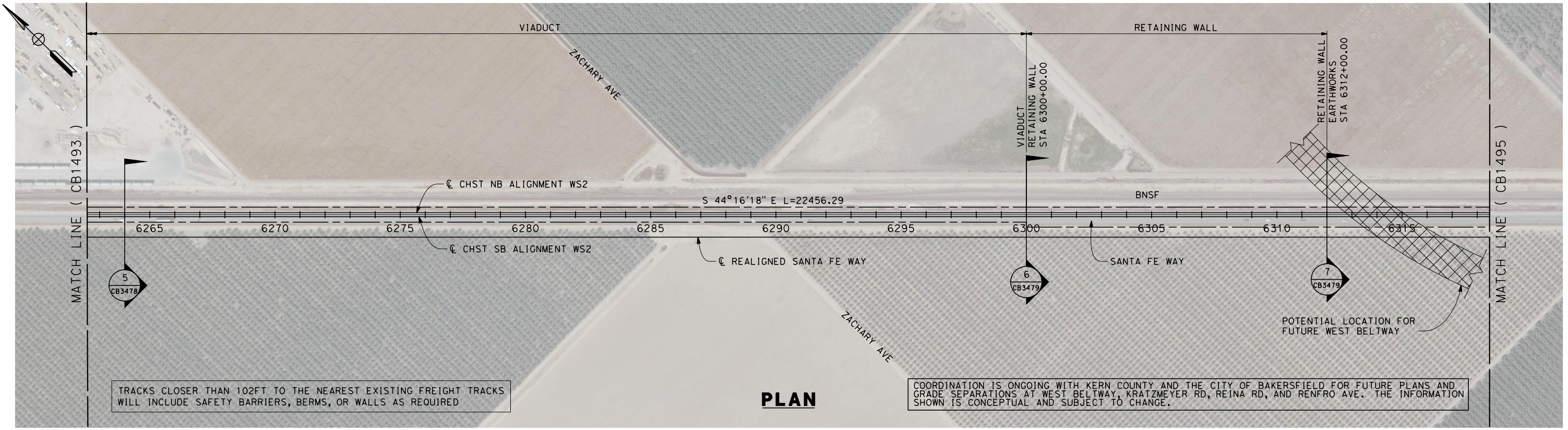


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
STA. 6206+50 TO 6262+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1493  
SCALE  
AS SHOWN  
SHEET NO.  
11 OF 19

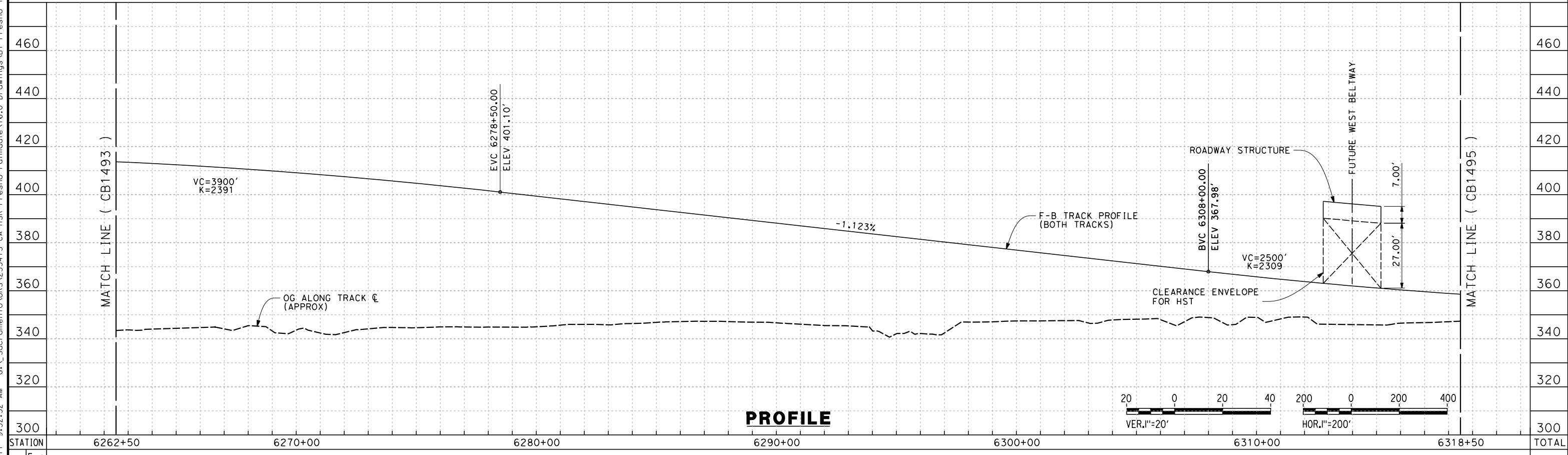


7/18/2011 9:32:52 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 WS2 Noise Barrier Additions\FB-CB-1494.dgn



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

COORDINATION IS ONGOING WITH KERN COUNTY AND THE CITY OF BAKERSFIELD FOR FUTURE PLANS AND GRADE SEPARATIONS AT WEST BELTWAY, KRATZMEYER RD, REINA RD, AND RENFRO AVE. THE INFORMATION SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE.



STATION	6262+50	6270+00	6280+00	6290+00	6300+00	6310+00	6318+50	TOTAL
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CY	Exc	Emb																
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DESIGNED BY  
**J. BINNING**  
DRAWN BY  
**T. PRETZER**  
CHECKED BY  
**L. TRUJILLO**  
IN CHARGE  
**T. ROWORTH**  
DATE  
**06/30/11**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

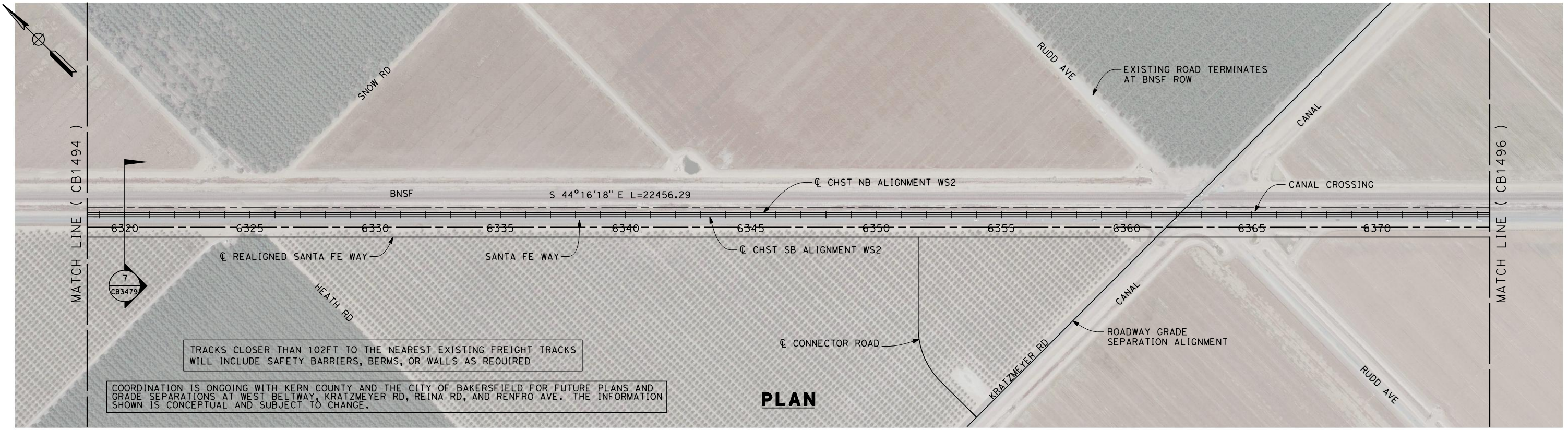


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
STA. 6262+50 TO 6318+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1494  
SCALE  
AS SHOWN  
SHEET NO.  
12 OF 19

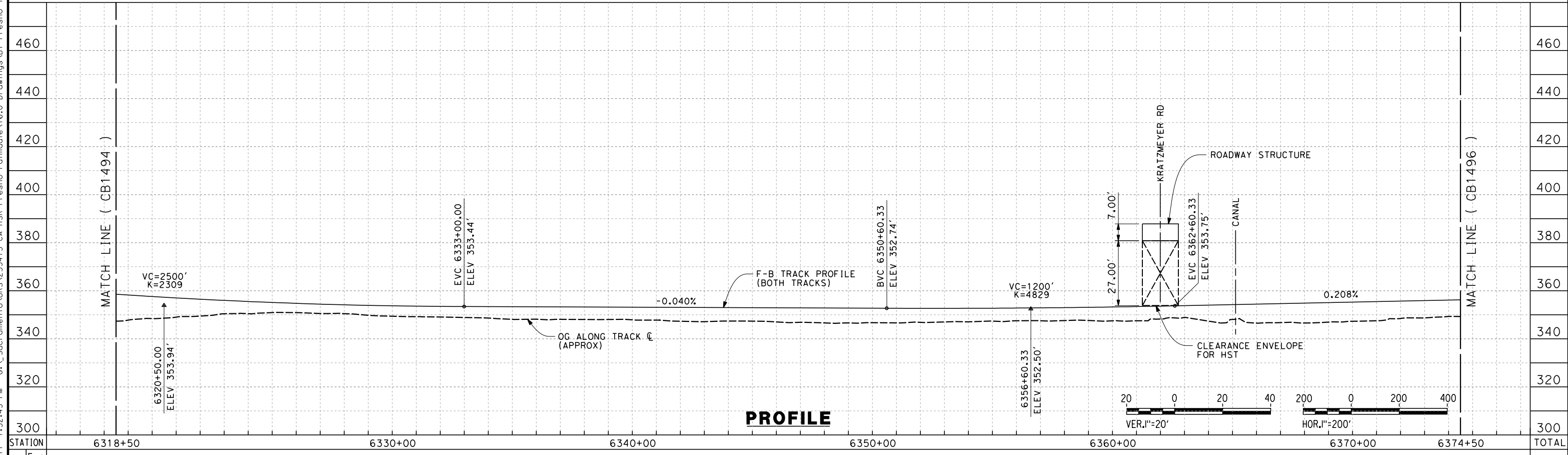


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TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

COORDINATION IS ONGOING WITH KERN COUNTY AND THE CITY OF BAKERSFIELD FOR FUTURE PLANS AND GRADE SEPARATIONS AT WEST BELTWAY, KRATZMEYER RD, REINA RD, AND RENFRO AVE. THE INFORMATION SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE.



STATION	6318+50	6330+00	6340+00	6350+00	6360+00	6370+00	6374+50	TOTAL
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CY	Exc	Emb																	
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DESIGNED BY  
J. BINNING  
 DRAWN BY  
T. PRETZER  
 CHECKED BY  
L. TRUJILLO  
 IN CHARGE  
T. ROWORTH  
 DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

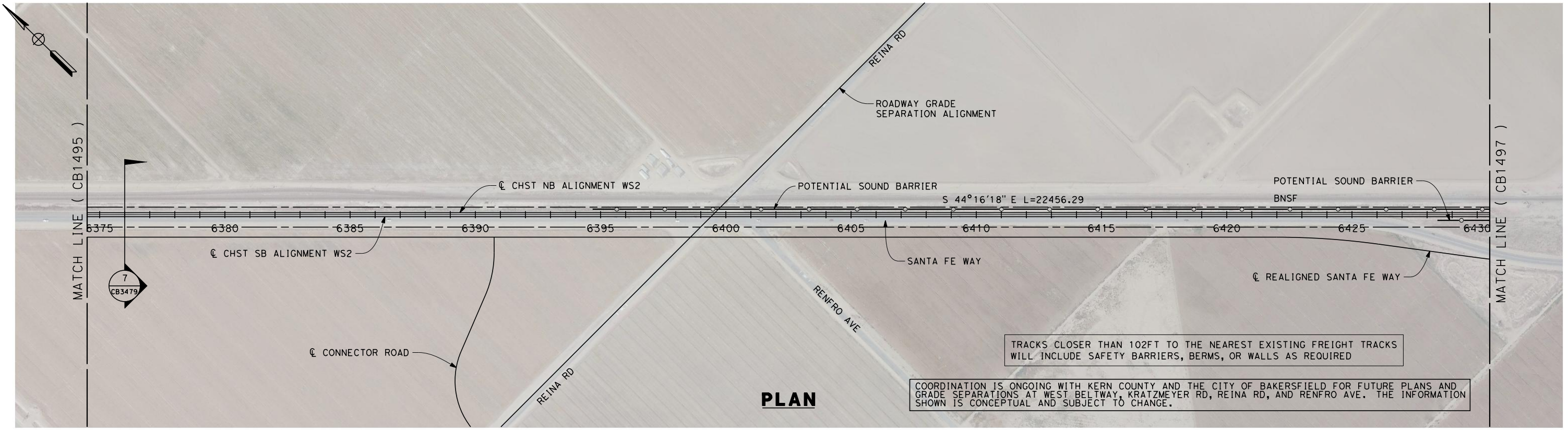


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 STA. 6318+50 TO 6374+50  
 PLAN & PROFILE

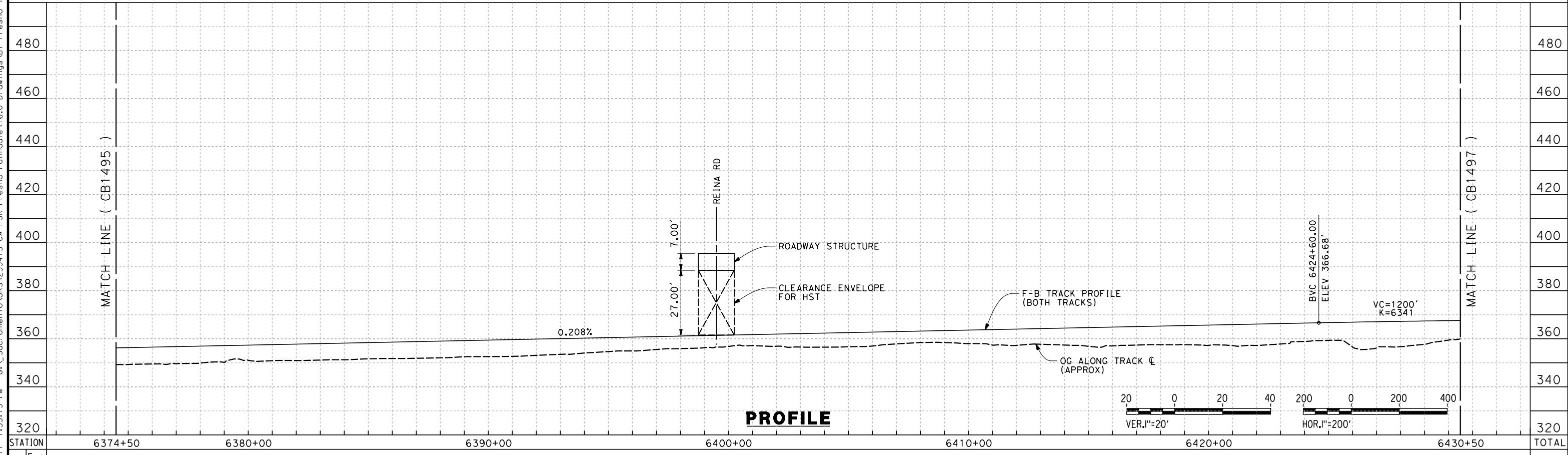
CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB1495  
 SCALE  
AS SHOWN  
 SHEET NO.  
13 OF 19



7/18/2011 1:35:15 PM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 WS1 WS2 Noise Barrier Additions\FB-CB-1496.dgn



**PLAN**



**PROFILE**

STATION	6374+50	6380+00	6390+00	6400+00	6410+00	6420+00	6430+50	TOTAL
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. BINNING**  
DRAWN BY  
**T. PRETZER**  
CHECKED BY  
**L. TRUJILLO**  
IN CHARGE  
**T. ROWORTH**  
DATE  
**06/30/11**

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
STA. 6374+50 TO 6430+50  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003

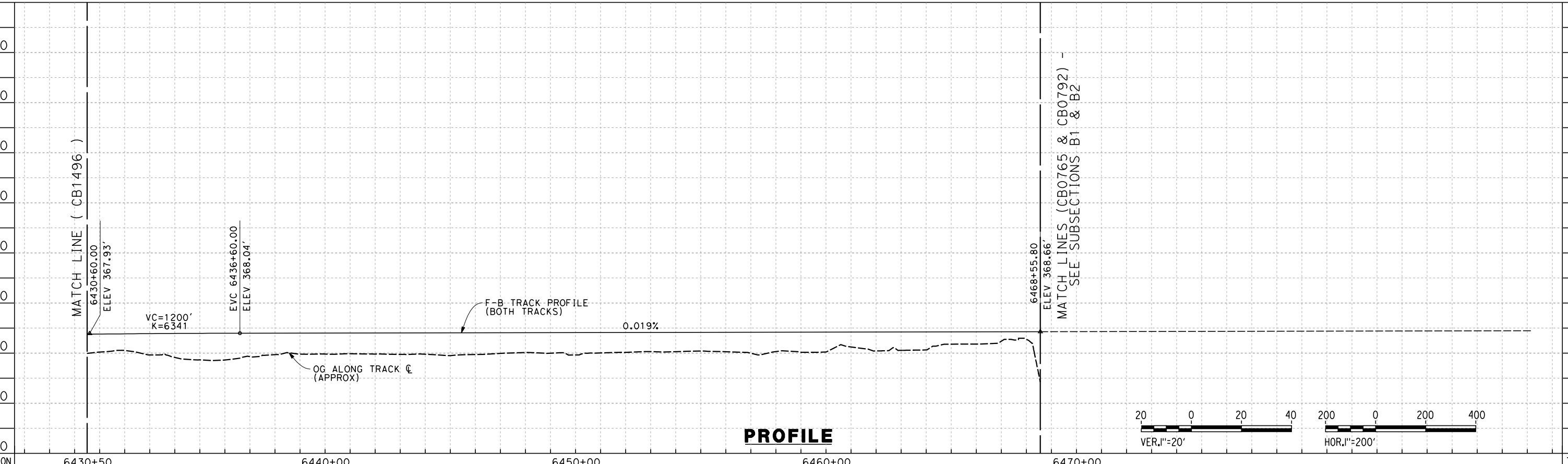
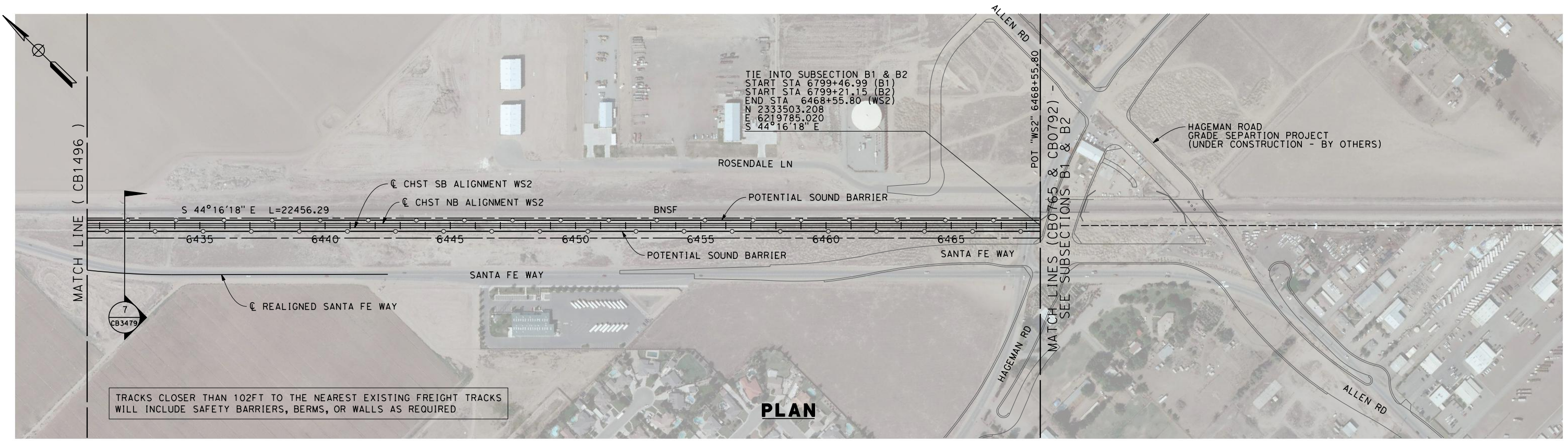
DRAWING NO.  
CB1496

SCALE  
AS SHOWN

SHEET NO.  
14 OF 19



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STATION	6430+50	6440+00	6450+00	6460+00	6470+00	TOTAL
CY	Exc					
	Emb					

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
J. BINNING  
DRAWN BY  
T. PRETZER  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

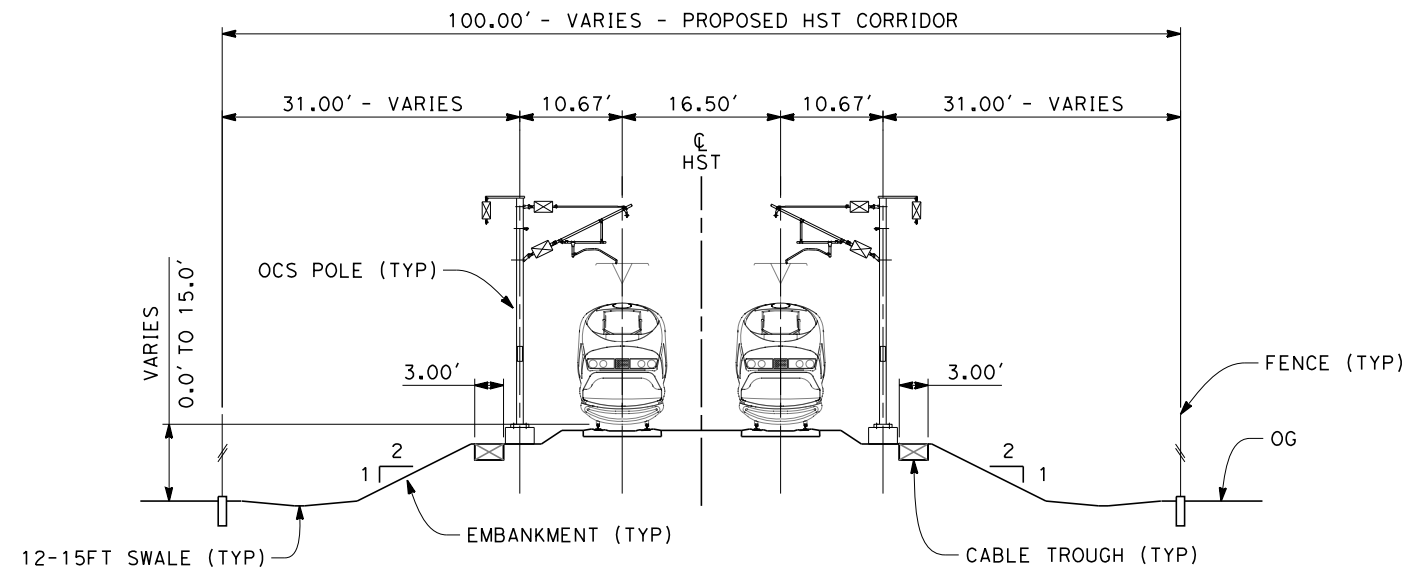


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
THROUGH WASCO-SHAFTER SUBSECTION  
ALIGNMENT WS2  
STA. 6430+50 TO 6468+55.80  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB1497  
SCALE  
AS SHOWN  
SHEET NO.  
15 OF 19

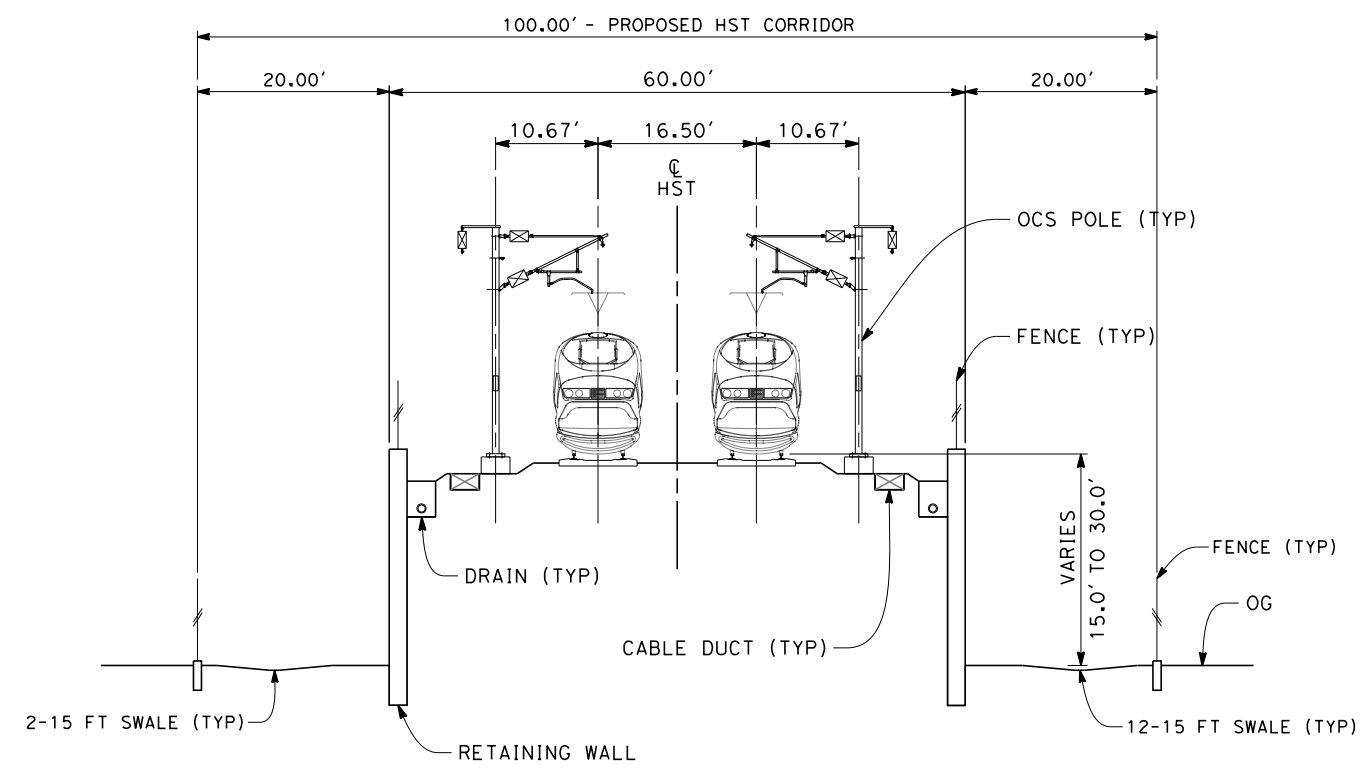


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**SECTION 1**

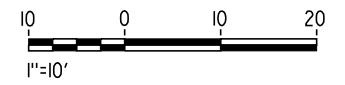
TWIN TRACKS - EMBANKMENT WITH OPEN DRAINAGE  
STA 5703+34.65 THROUGH STA 6152+50



**SECTION 2**

TWIN TRACKS - RETAINED EMBANKMENT  
STA 6152+50 THROUGH STA 6172+50

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
  3. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR WHERE APPLICABLE. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



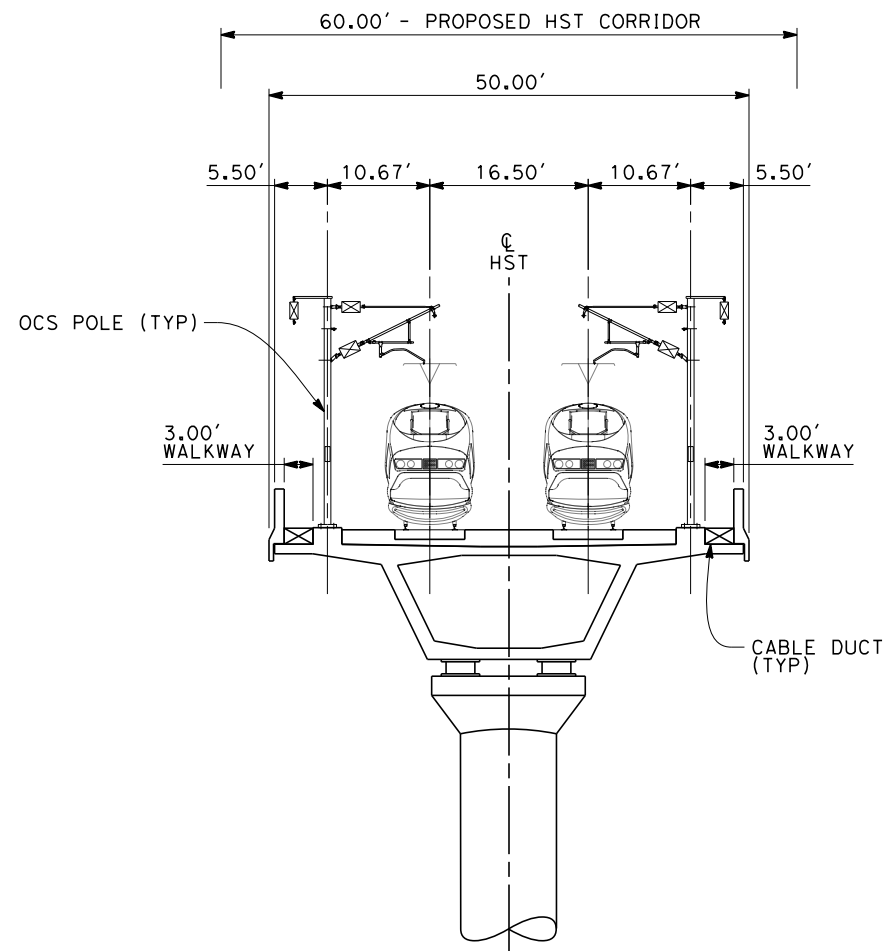
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
CROSS SECTIONS

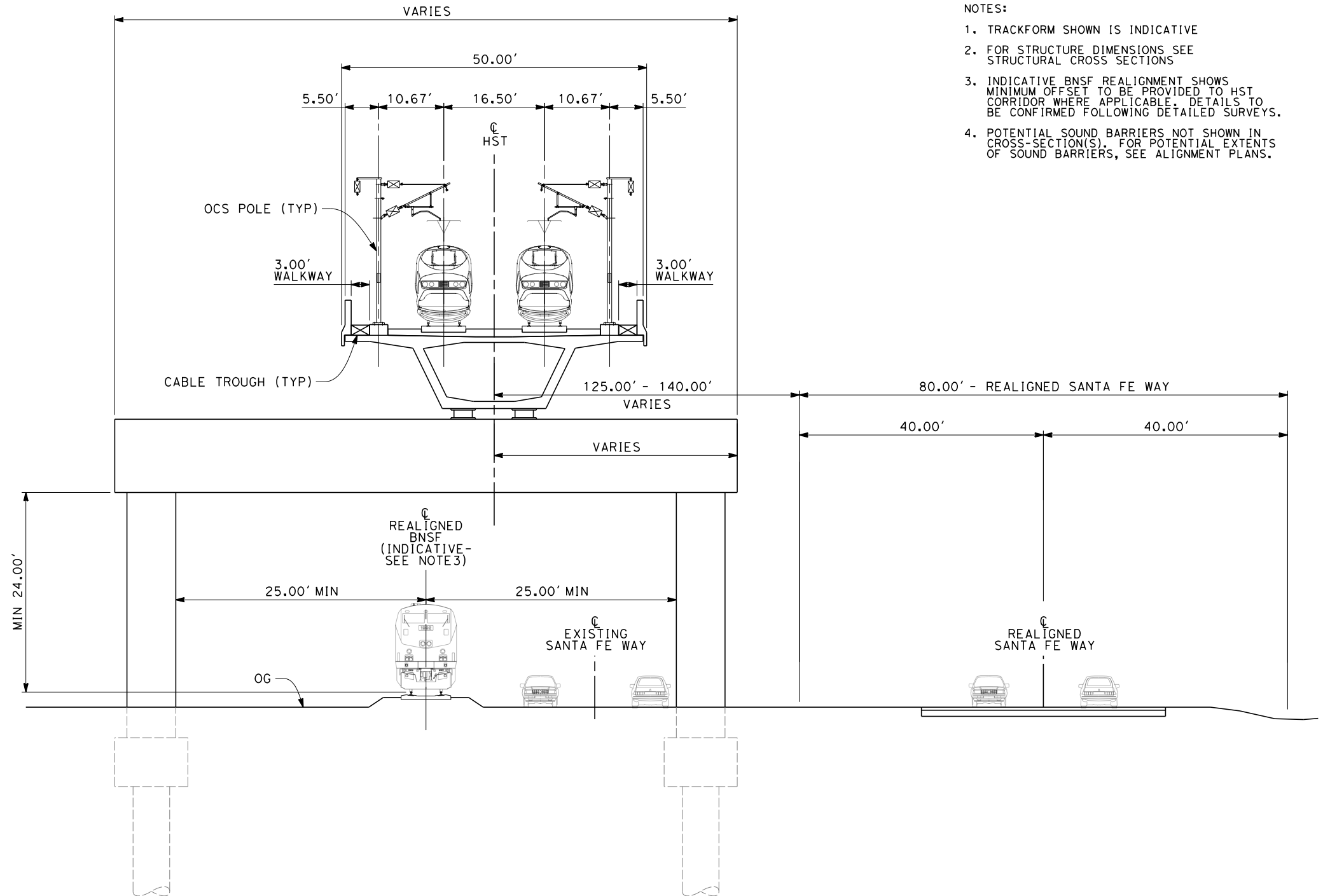
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DRAWING NO.  
CB3476  
SCALE  
AS SHOWN  
SHEET NO.  
16 OF 19



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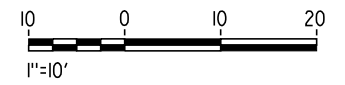


**SECTION 3**  
TWIN TRACK - AERIAL STRUCTURE  
STA 6172+50 THROUGH STA 6207+20



**SECTION 4**  
TWIN TRACK - AERIAL STRUCTURE WITH STRADDLE BENT  
STA 6207+20 THROUGH STA 6218+50

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
  3. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR WHERE APPLICABLE. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



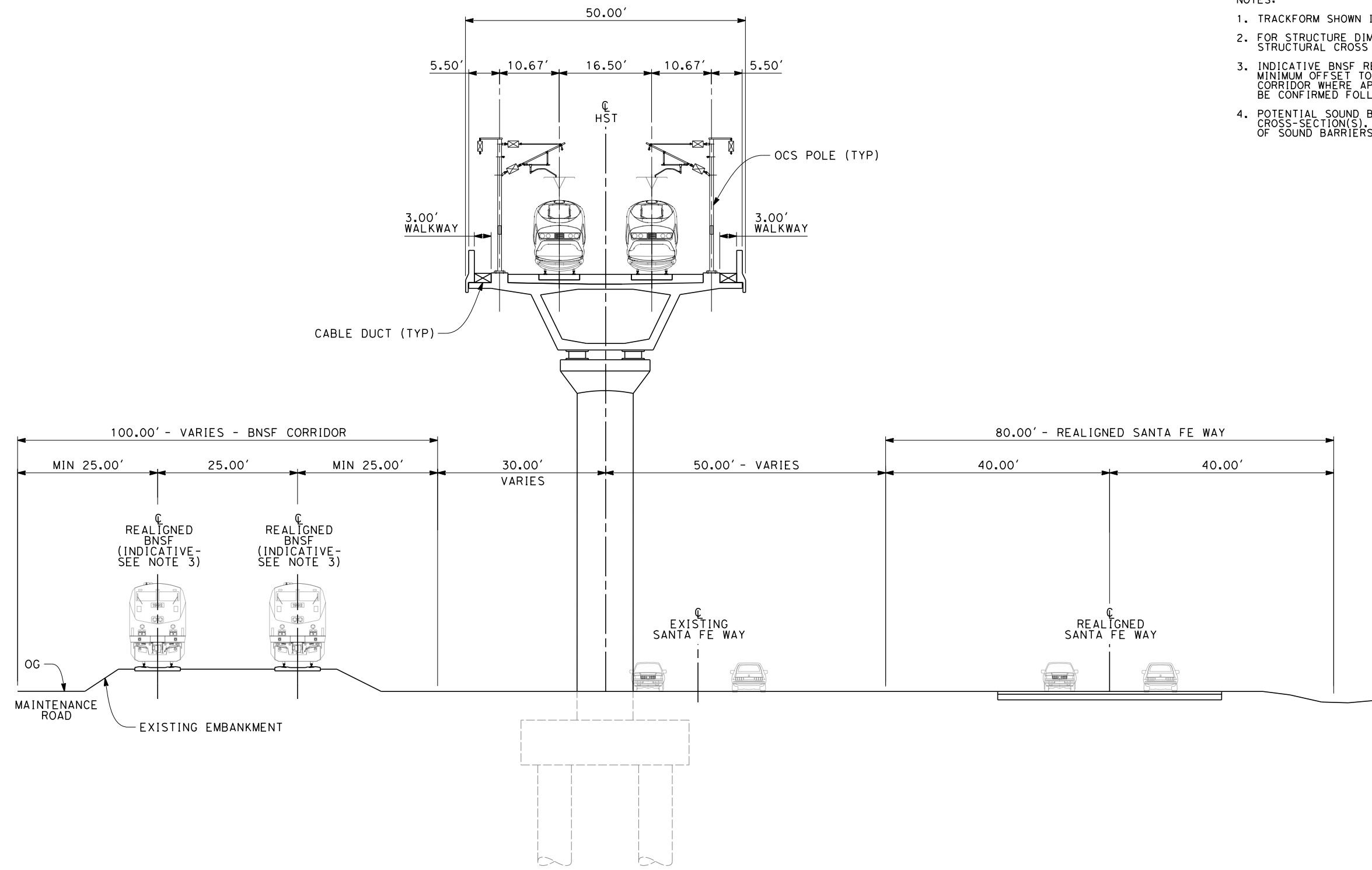
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB3477  
SCALE  
AS SHOWN  
SHEET NO.  
17 OF 19



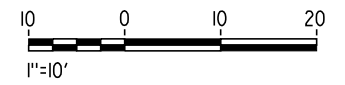
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- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
  3. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR WHERE APPLICABLE. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.

**SECTION 5**

TWIN TRACK ADJACENT TO BNSF - SANTA FE WAY REALIGNMENT  
STA 6218+50 THROUGH STA 6300+00



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



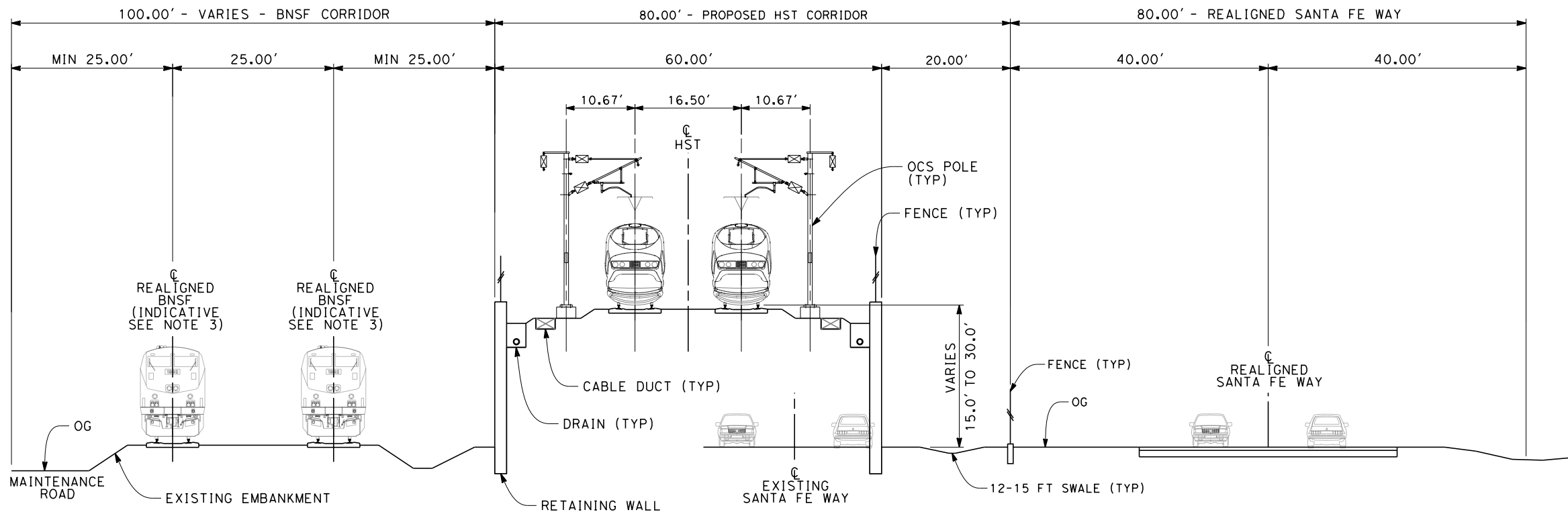
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB3478  
SCALE  
AS SHOWN  
SHEET NO.  
18 OF 19



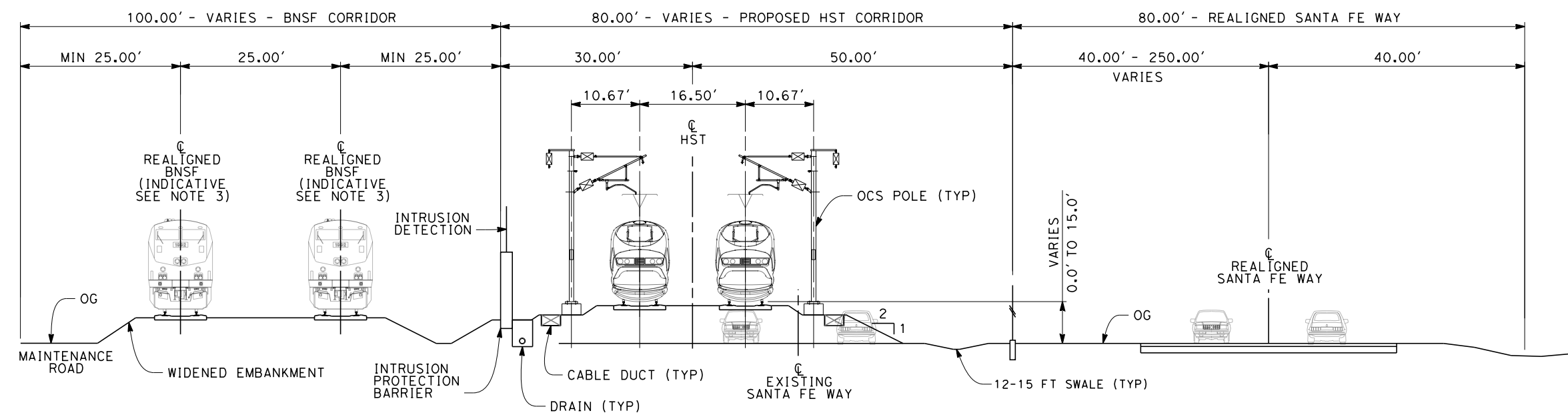
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- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
  3. INDICATIVE BNSF REALIGNMENT SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR WHERE APPLICABLE. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
  4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.

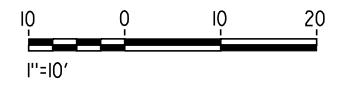
**SECTION 6**

TWIN TRACK ADJACENT TO BNSF - RETAINED EMBANKMENT WITH SANTA FE WAY REALIGNMENT  
STA 6300+00 THROUGH STA 6312+00



**SECTION 7**

TWIN TRACK ADJACENT TO BNSF - ENBANKMENT WITH SANTA FE WAY REALIGNMENT  
STA 6312+00 THROUGH STA 6468+55.80



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
D. MORENO  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
L. TRUJILLO  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

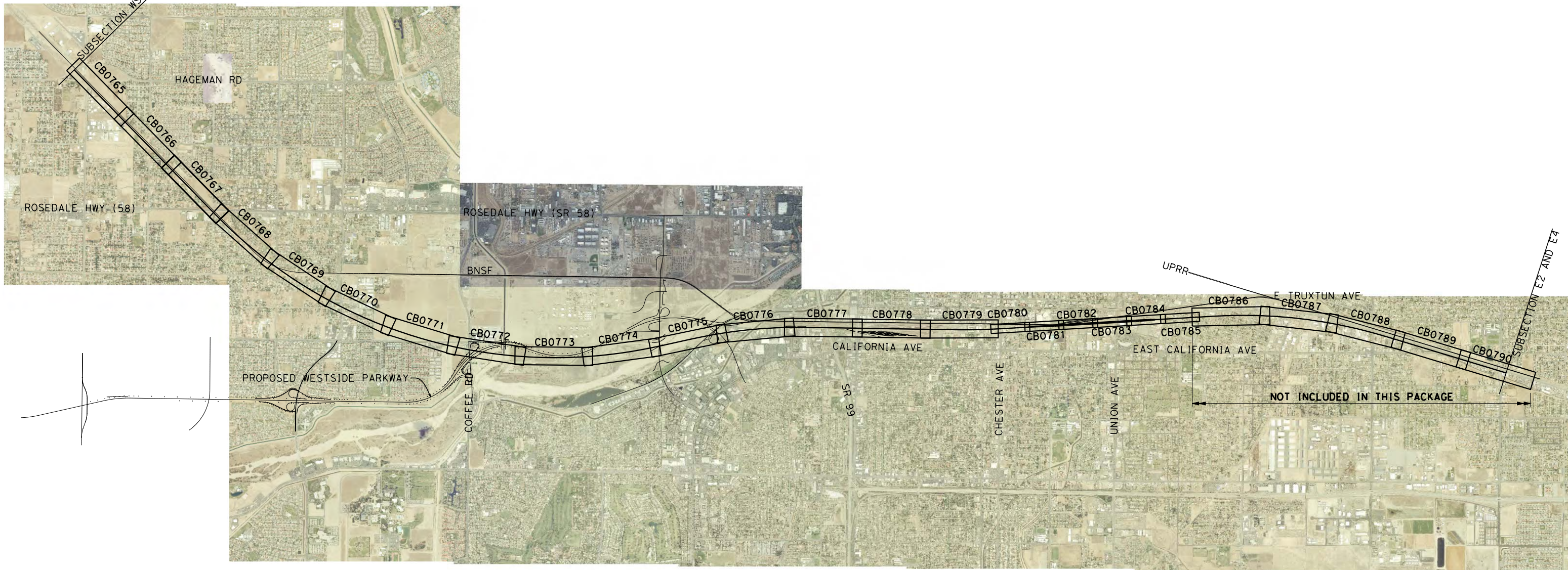


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB3479  
SCALE  
AS SHOWN  
SHEET NO.  
19 OF 19





LEGEND	
	EXISTING FREIGHT RAILROAD / PROPOSED WESTSIDE PARKWAY
	PROPOSED CHST



\$USER \$ DATE \$ TIME \$ FILE \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

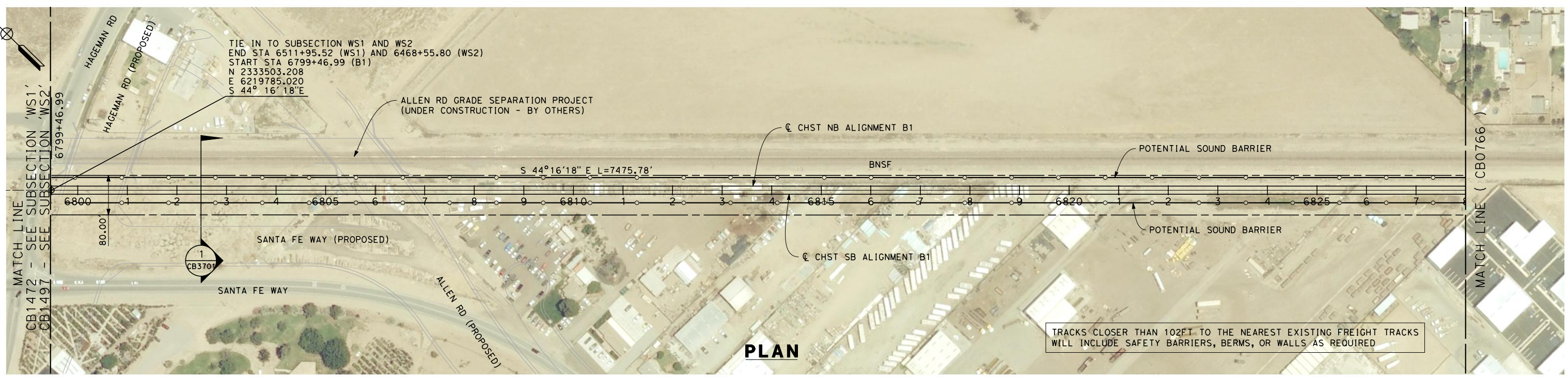


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 6799+46.99 TO 7431+00  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0764  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 37

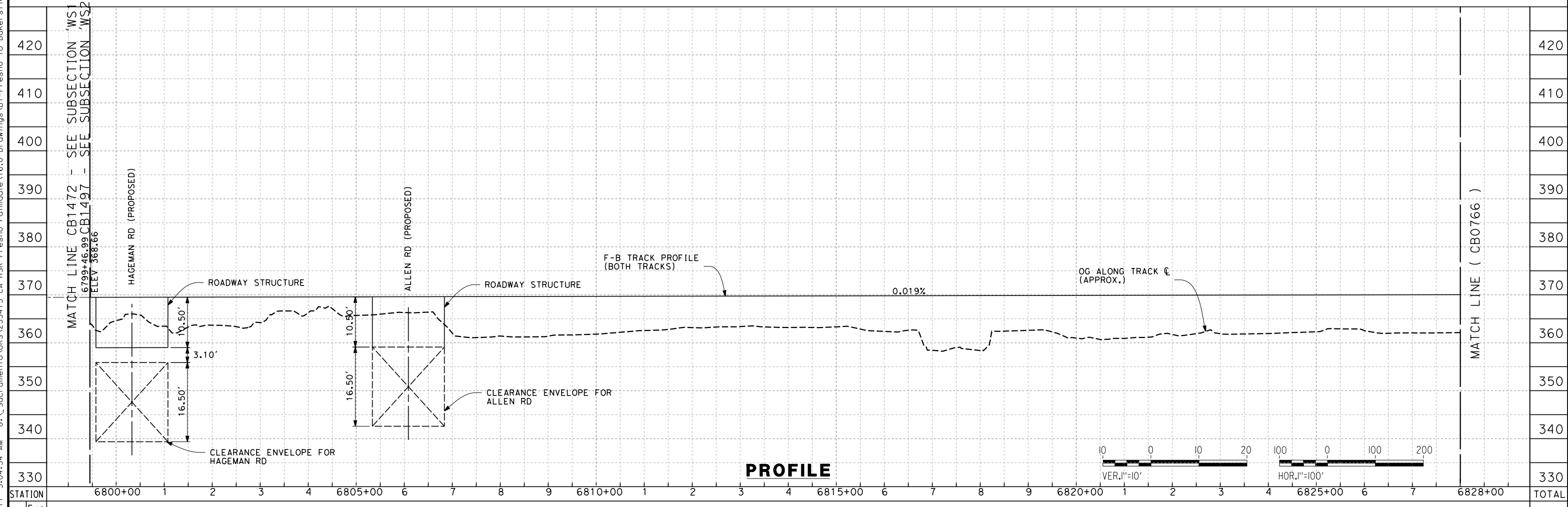


7/20/2011 5:04:54 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0765.dgn



**PLAN**

TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



**PROFILE**

STATION	6800+00	1	2	3	4	6805+00	6	7	8	9	6810+00	1	2	3	4	6815+00	6	7	8	9	6820+00	1	2	3	4	6825+00	6	7	6828+00	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

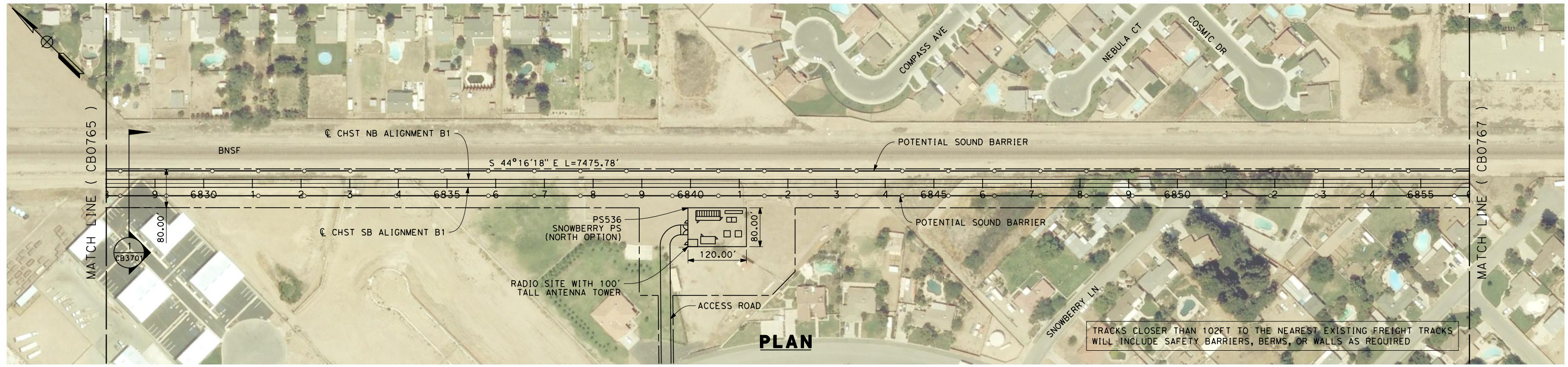


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 6799+46.99 TO 6828+00  
PLAN AND PROFILE

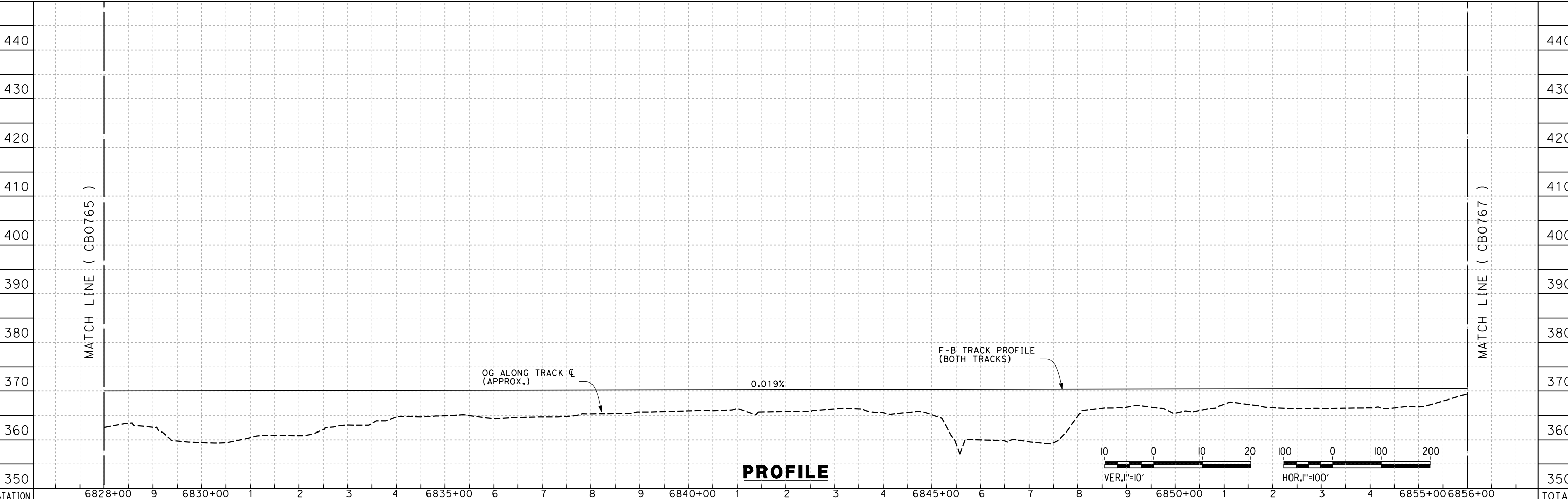
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0765  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 37



7/20/2011 5:05:11 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0766.dgn



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



STATION	6828+00	9	6830+00	1	2	3	4	6835+00	6	7	8	9	6840+00	1	2	3	4	6845+00	6	7	8	9	6850+00	1	2	3	4	6855+00	6856+00	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



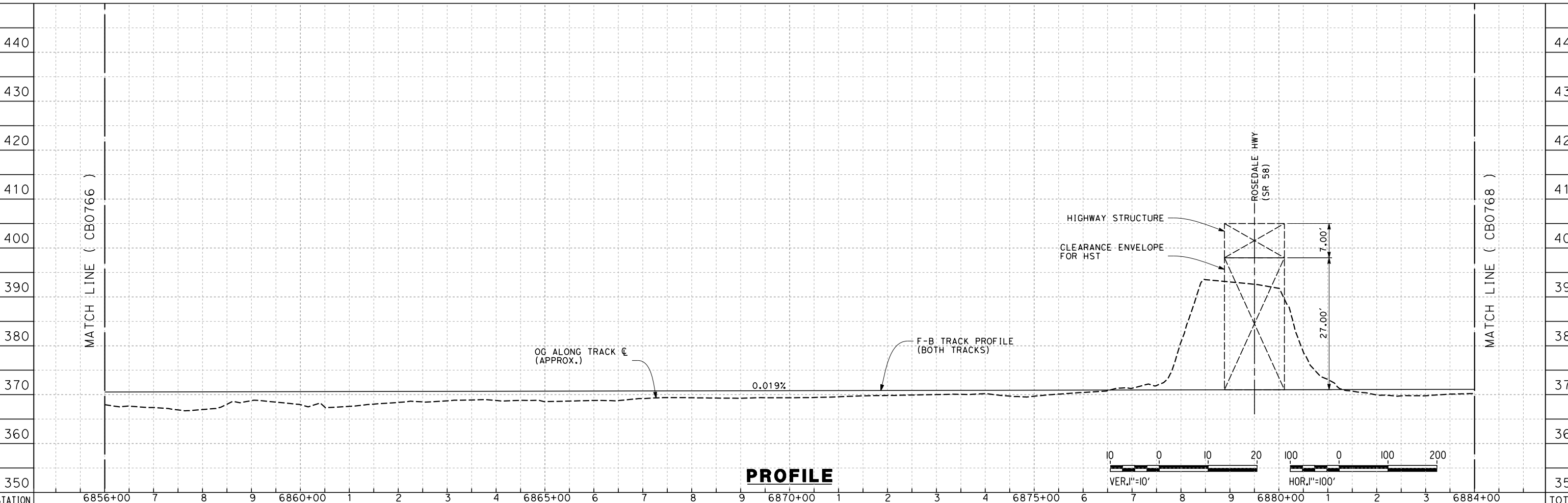
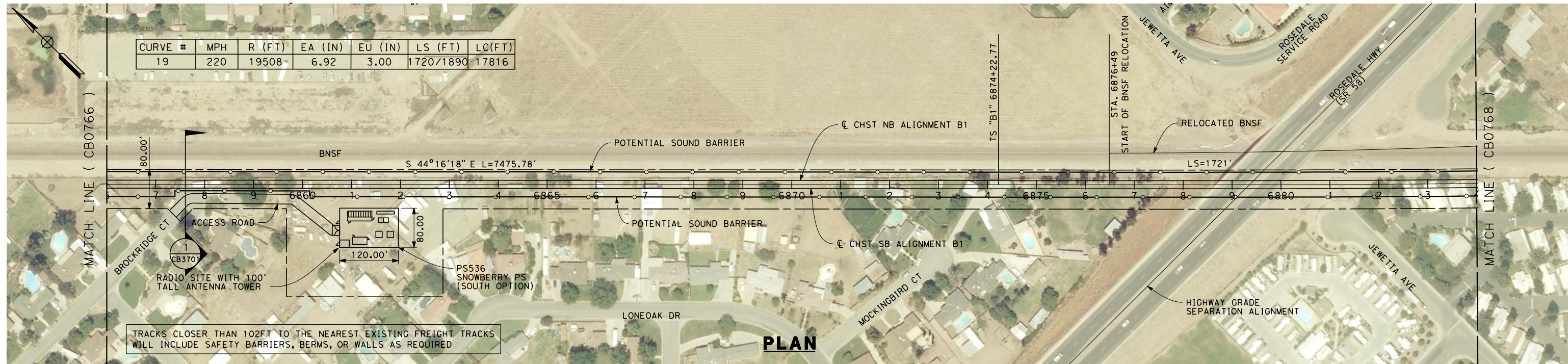
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 6828+00 TO 6856+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0766  
SCALE  
AS SHOWN  
SHEET NO.  
3 OF 37



7/20/2011 5:07:44 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0767.dgn

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC(FT)
19	220	19508	6.92	3.00	1720/1890	17816



STATION	6856+00	7	8	9	6860+00	1	2	3	4	6865+00	6	7	8	9	6870+00	1	2	3	4	6875+00	6	7	8	9	6880+00	1	2	3	6884+00	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

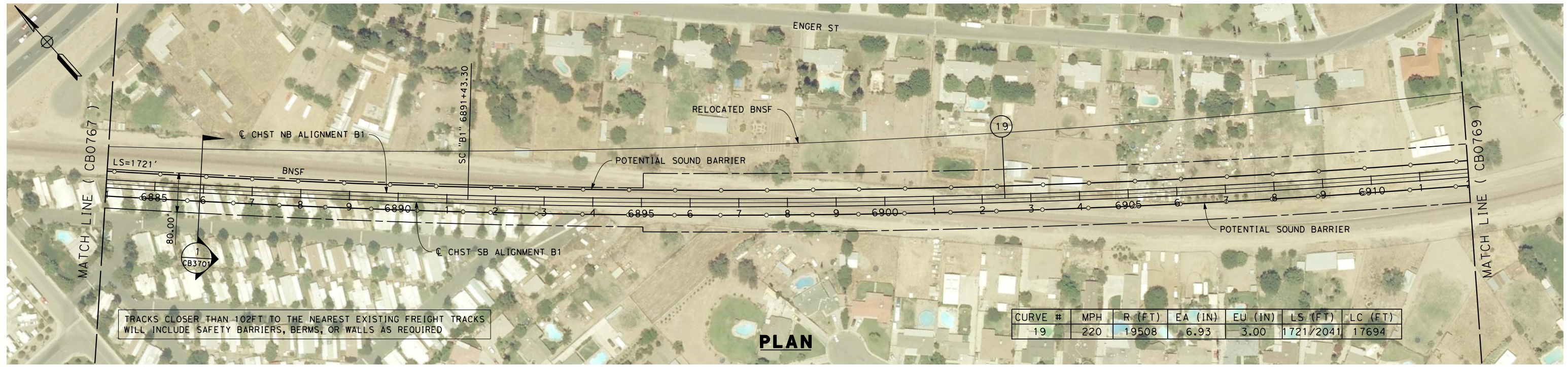


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 6856+00 TO 6884+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0767  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 37



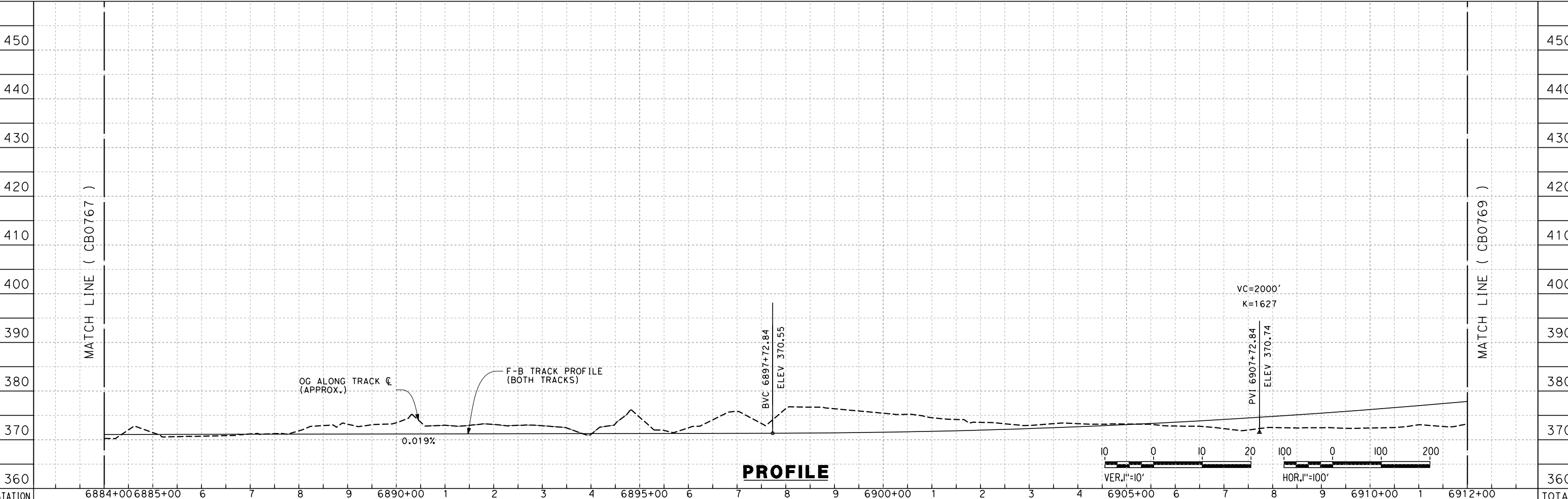
7/20/2011 5:08:02 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0768.dgn



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
19	220	19508	6.93	3.00	1721/2041	17694

**PLAN**



**PROFILE**

STATION	6884+00	6885+00	6	7	8	9	6890+00	1	2	3	4	6895+00	6	7	8	9	6900+00	1	2	3	4	6905+00	6	7	8	9	6910+00	1	6912+00	TOTAL
Exc																														
Emb																														

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



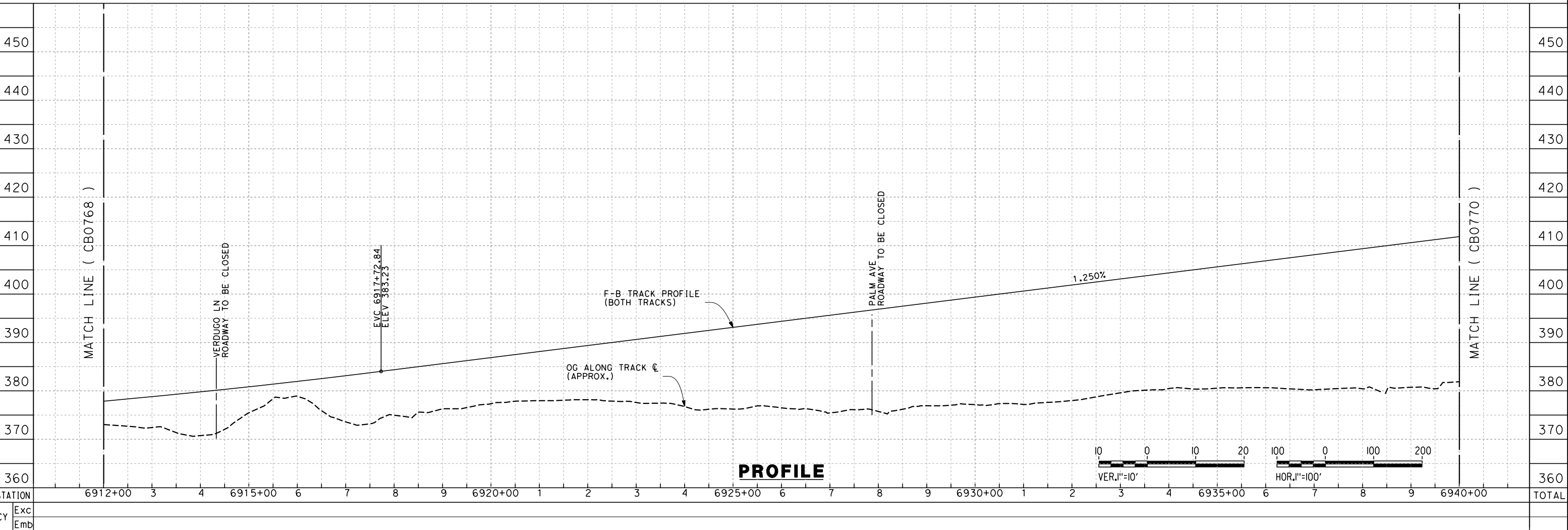
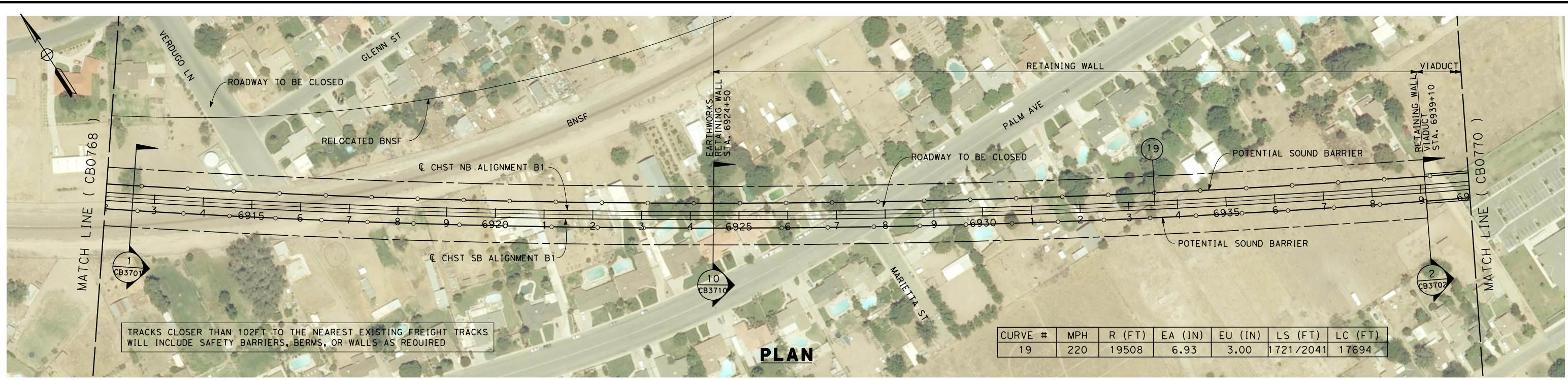
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 6884+00 TO 6912+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0768  
SCALE  
AS SHOWN  
SHEET NO.  
5 OF 37

REV	DATE	BY	CHK	APP	DESCRIPTION



7/20/2011 5:08:22 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0769.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



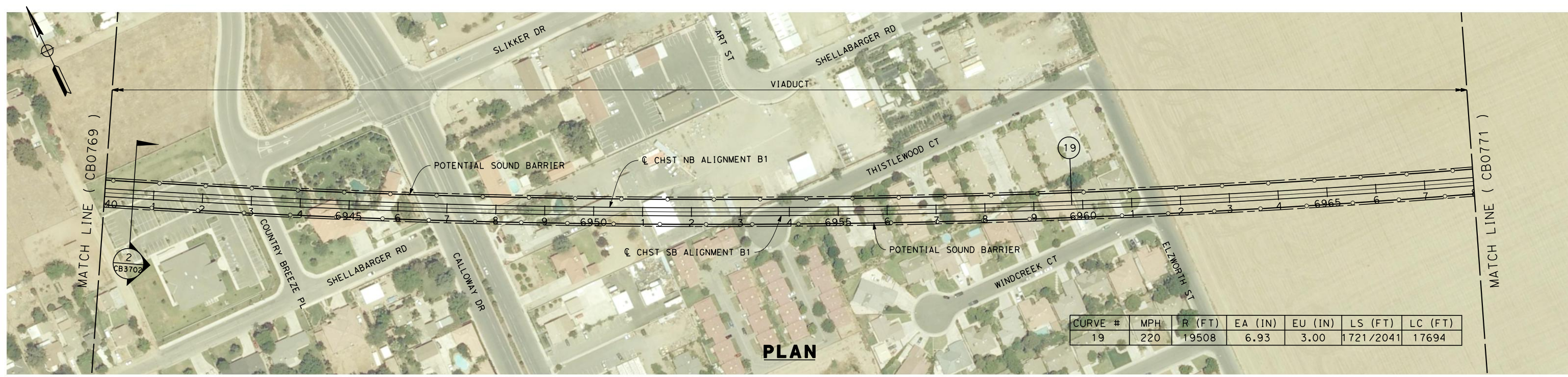
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 6912+00 TO 6940+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0769  
SCALE  
AS SHOWN  
SHEET NO.  
6 OF 37

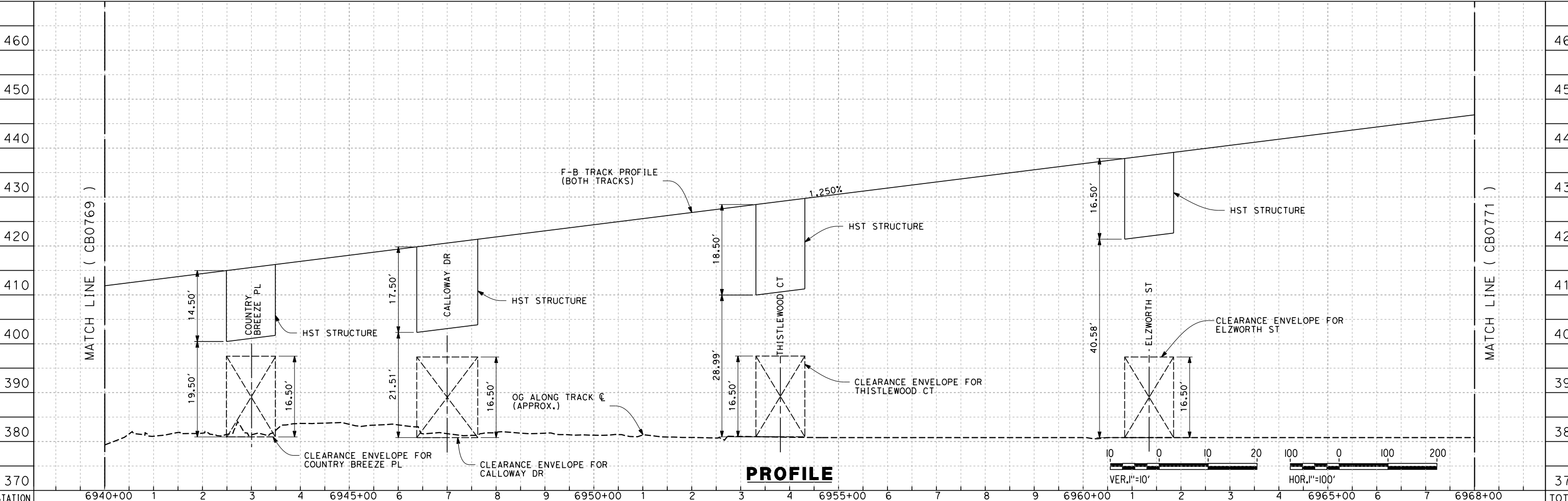


7/20/2011 5:08:40 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0770.dgn



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
19	220	19508	6.93	3.00	1721/2041	17694

**PLAN**



**PROFILE**

STATION	6940+00	1	2	3	4	6945+00	6	7	8	9	6950+00	1	2	3	4	6955+00	6	7	8	9	6960+00	1	2	3	4	6965+00	6	7	6968+00	TOTAL
CY																														
	Exc																													
	Emb																													

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



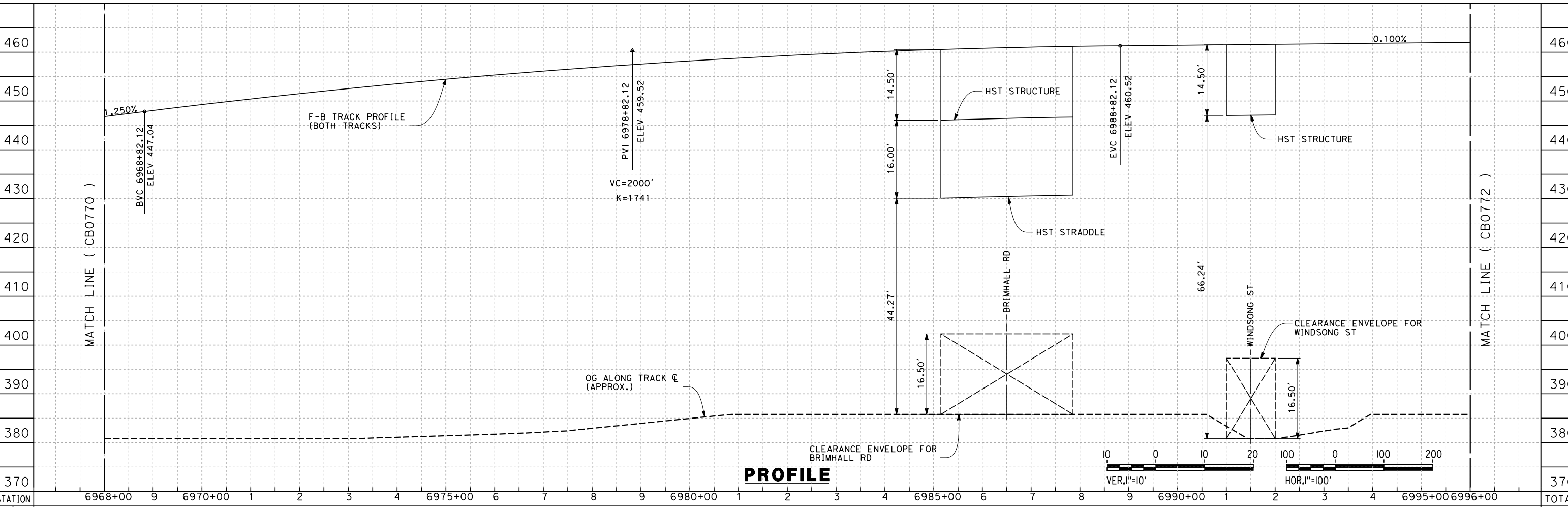
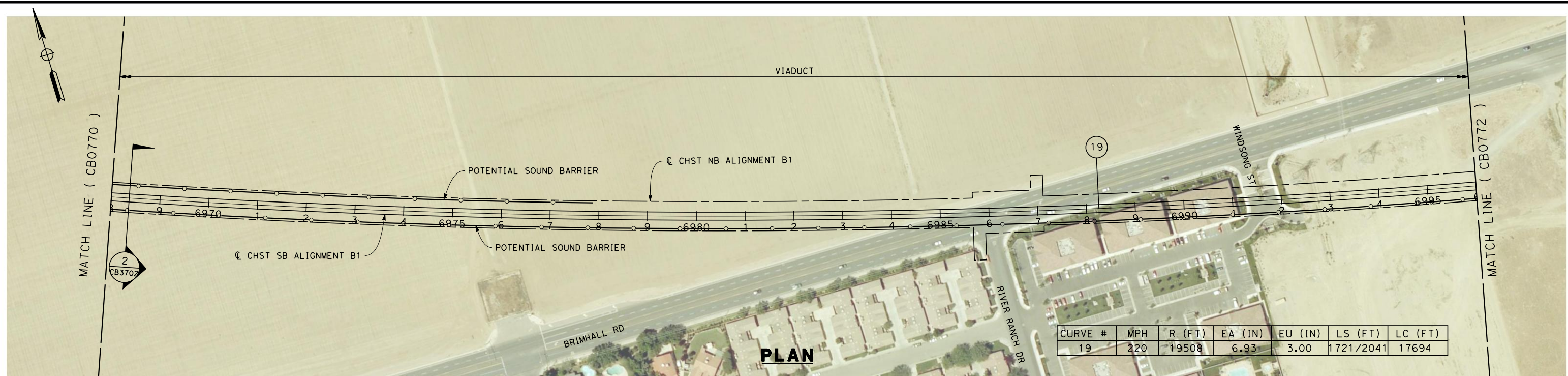
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 6940+00 TO 6968+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0770  
SCALE  
AS SHOWN  
SHEET NO.  
7 OF 37

REV	DATE	BY	CHK	APP	DESCRIPTION



7/20/2011 5:10:03 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0771.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

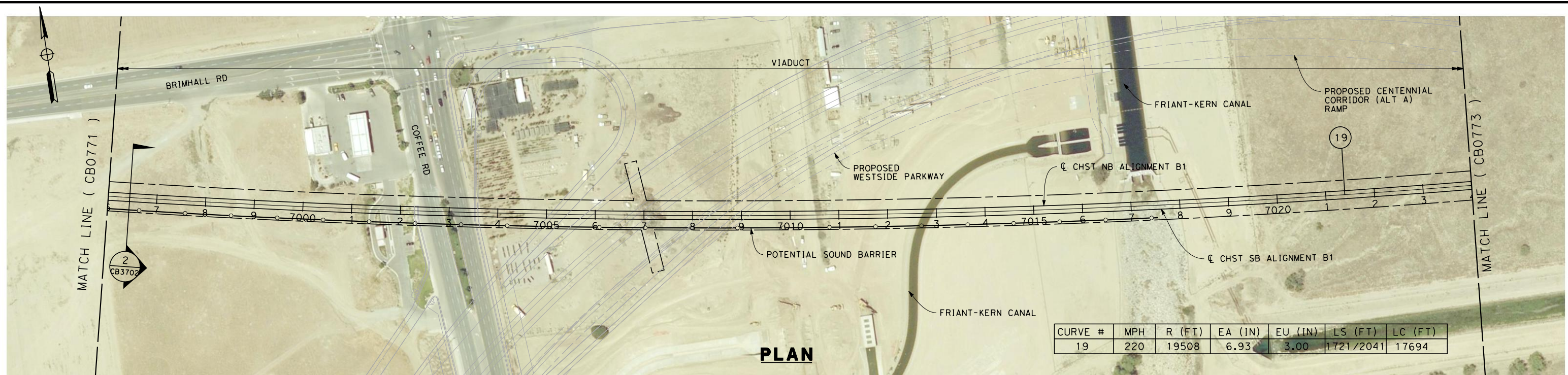


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 6968+00 TO 6996+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0771  
SCALE  
AS SHOWN  
SHEET NO.  
8 OF 37

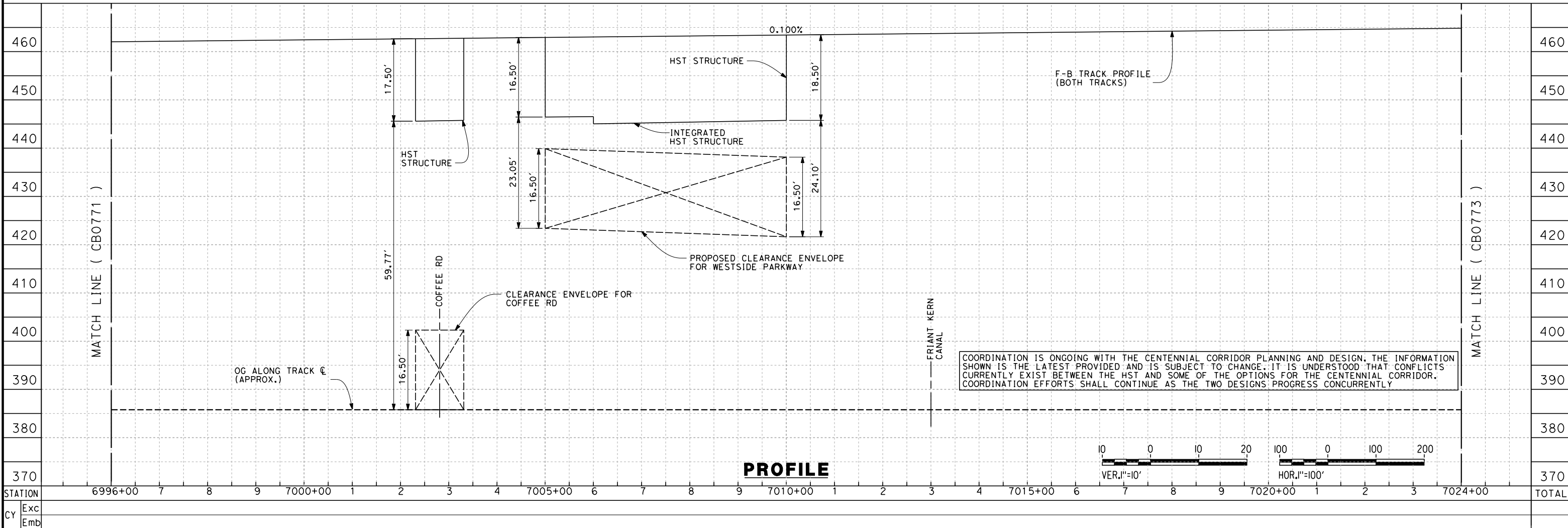


7/20/2011 5:10:47 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0772.dgn



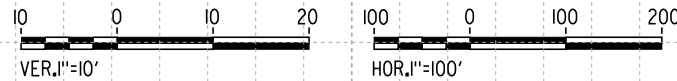
CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
19	220	19508	6.93	3.00	1721/2041	17694

**PLAN**



COORDINATION IS ONGOING WITH THE CENTENNIAL CORRIDOR PLANNING AND DESIGN. THE INFORMATION SHOWN IS THE LATEST PROVIDED AND IS SUBJECT TO CHANGE. IT IS UNDERSTOOD THAT CONFLICTS CURRENTLY EXIST BETWEEN THE HST AND SOME OF THE OPTIONS FOR THE CENTENNIAL CORRIDOR. COORDINATION EFFORTS SHALL CONTINUE AS THE TWO DESIGNS PROGRESS CONCURRENTLY

**PROFILE**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

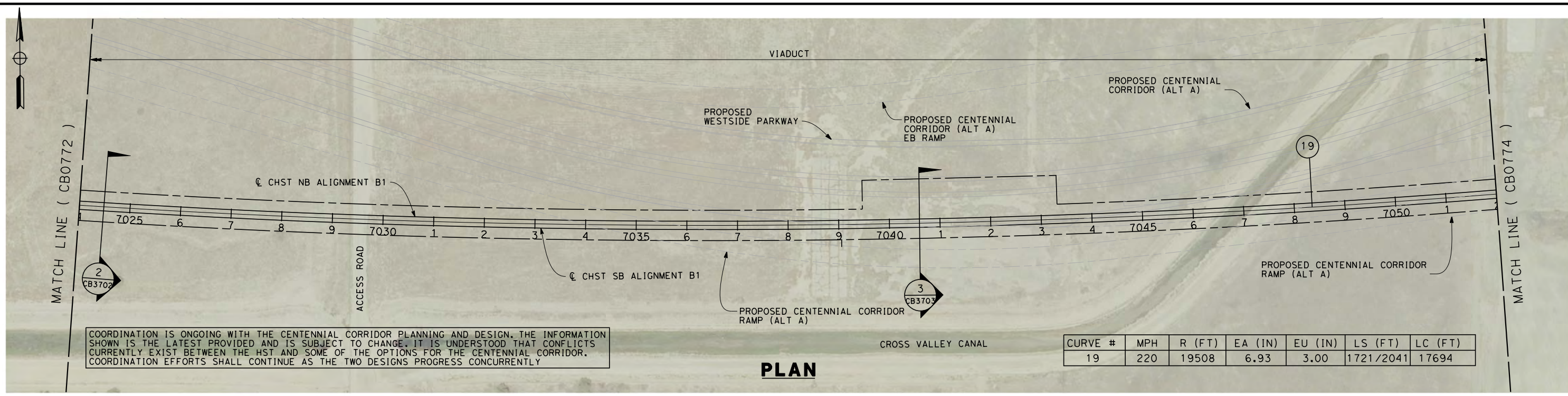


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 6996+00 TO 7024+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0772  
SCALE  
AS SHOWN  
SHEET NO.  
9 OF 37



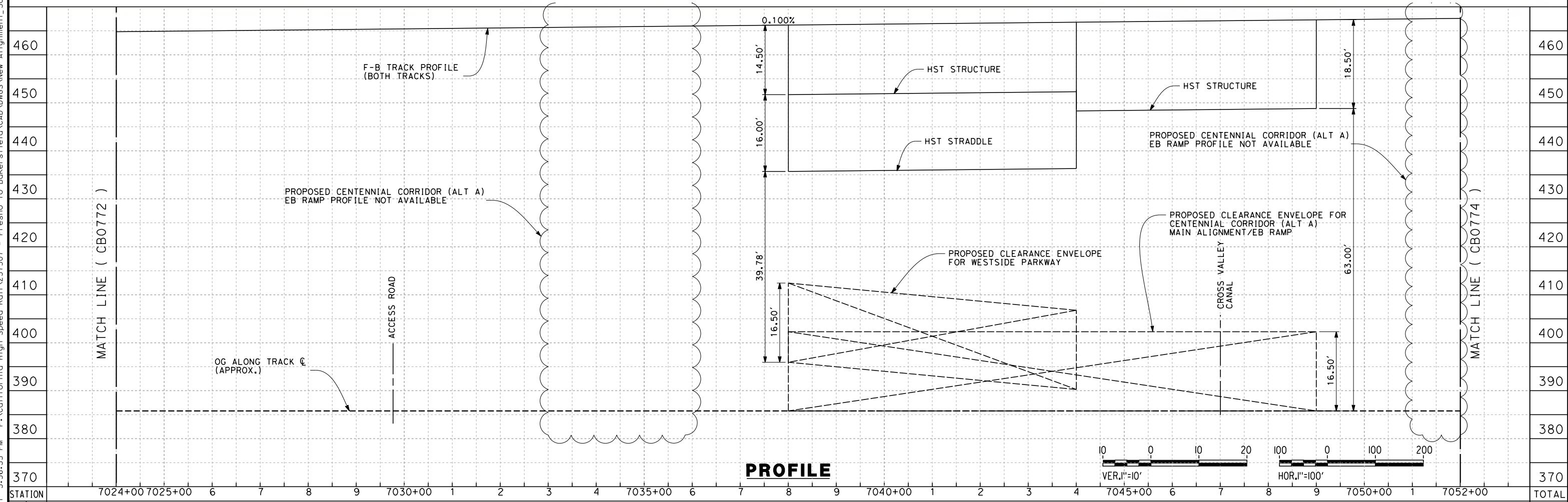
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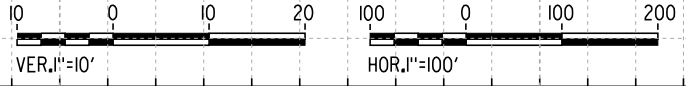
COORDINATION IS ONGOING WITH THE CENTENNIAL CORRIDOR PLANNING AND DESIGN. THE INFORMATION SHOWN IS THE LATEST PROVIDED AND IS SUBJECT TO CHANGE. IT IS UNDERSTOOD THAT CONFLICTS CURRENTLY EXIST BETWEEN THE HST AND SOME OF THE OPTIONS FOR THE CENTENNIAL CORRIDOR. COORDINATION EFFORTS SHALL CONTINUE AS THE TWO DESIGNS PROGRESS CONCURRENTLY

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
19	220	19508	6.93	3.00	1721/2041	17694

**PLAN**



**PROFILE**



STATION	7024+00	7025+00	6	7	8	9	7030+00	1	2	3	4	7035+00	6	7	8	9	7040+00	1	2	3	4	7045+00	6	7	8	9	7050+00	1	7052+00	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

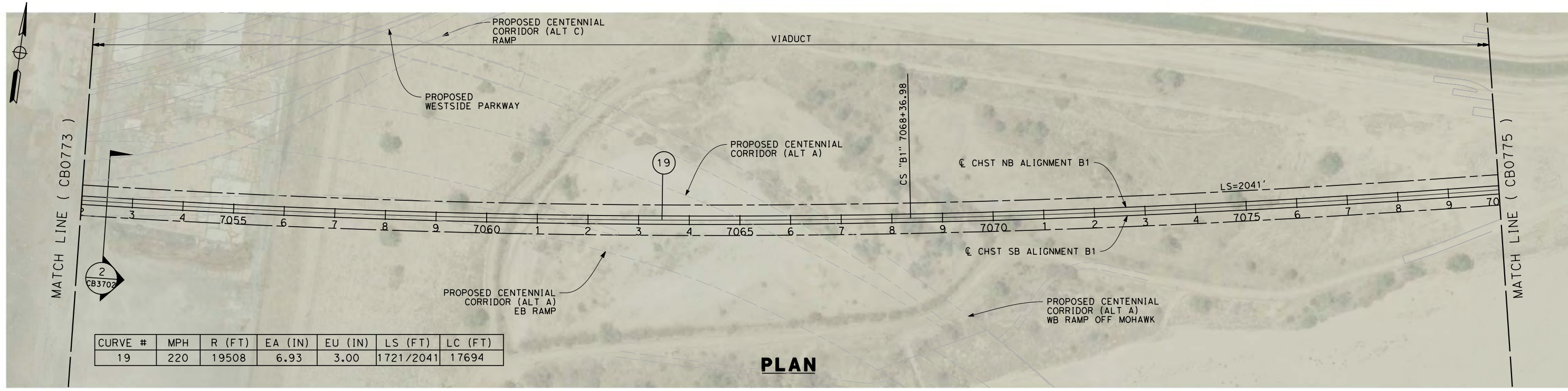


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 7024+00 TO 7052+00  
PLAN AND PROFILE

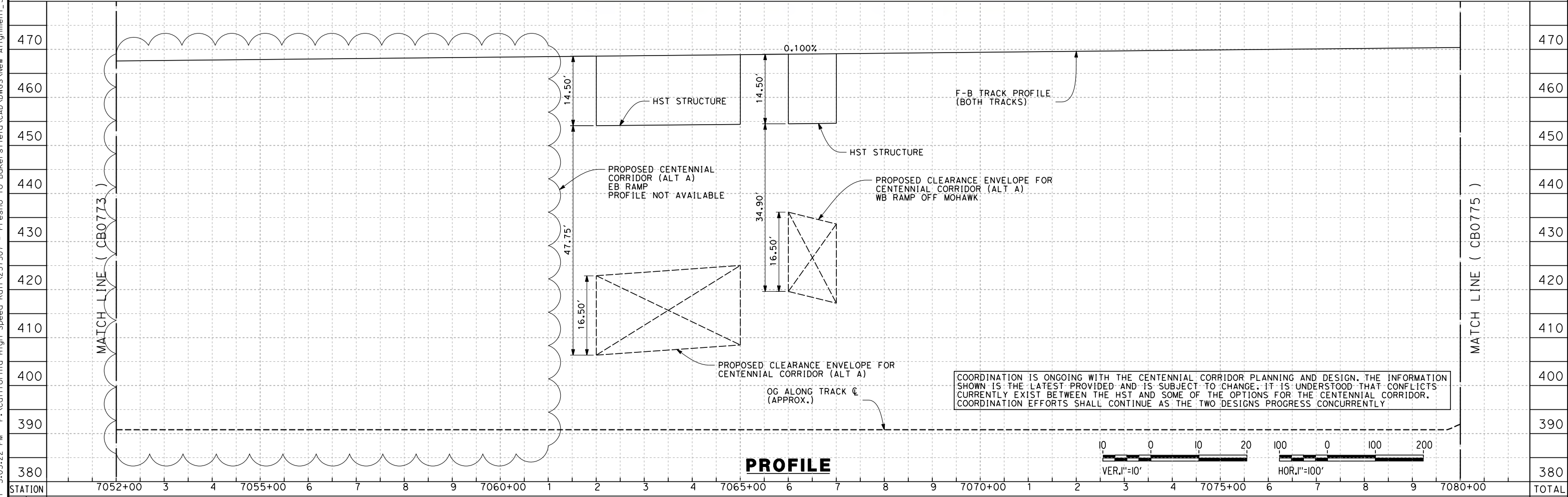
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0773  
SCALE  
AS SHOWN  
SHEET NO.  
10 OF 37



5/12/2011 3:03:22 PM P:\California High Speed Rail\237507 - Fresno to Bakersfield\CAD\DWG\New Alignment\_30%\_intern\DWG\FB-CB-0774.dgn roy55140

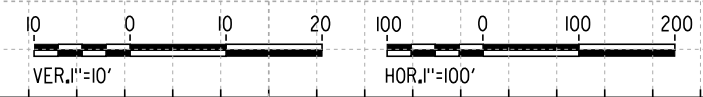


**PLAN**



**PROFILE**

COORDINATION IS ONGOING WITH THE CENTENNIAL CORRIDOR PLANNING AND DESIGN. THE INFORMATION SHOWN IS THE LATEST PROVIDED AND IS SUBJECT TO CHANGE. IT IS UNDERSTOOD THAT CONFLICTS CURRENTLY EXIST BETWEEN THE HST AND SOME OF THE OPTIONS FOR THE CENTENNIAL CORRIDOR. COORDINATION EFFORTS SHALL CONTINUE AS THE TWO DESIGNS PROGRESS CONCURRENTLY.



STATION	7052+00	3	4	7055+00	6	7	8	9	7060+00	1	2	3	4	7065+00	6	7	8	9	7070+00	1	2	3	4	7075+00	6	7	8	9	7080+00	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

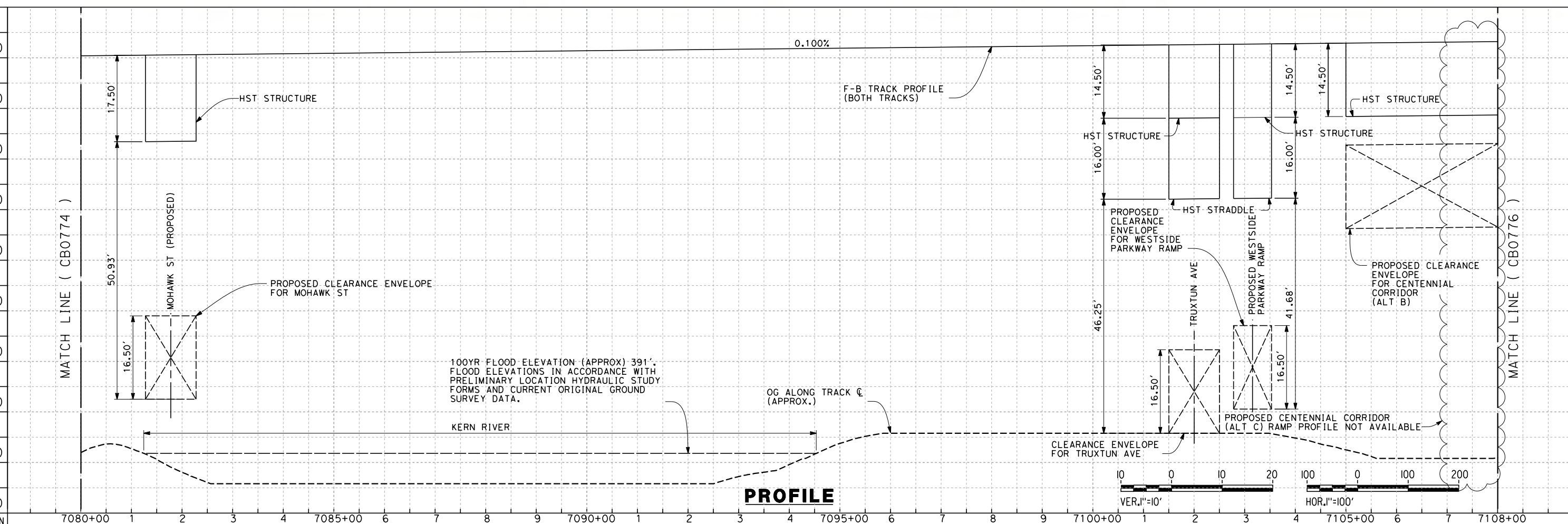
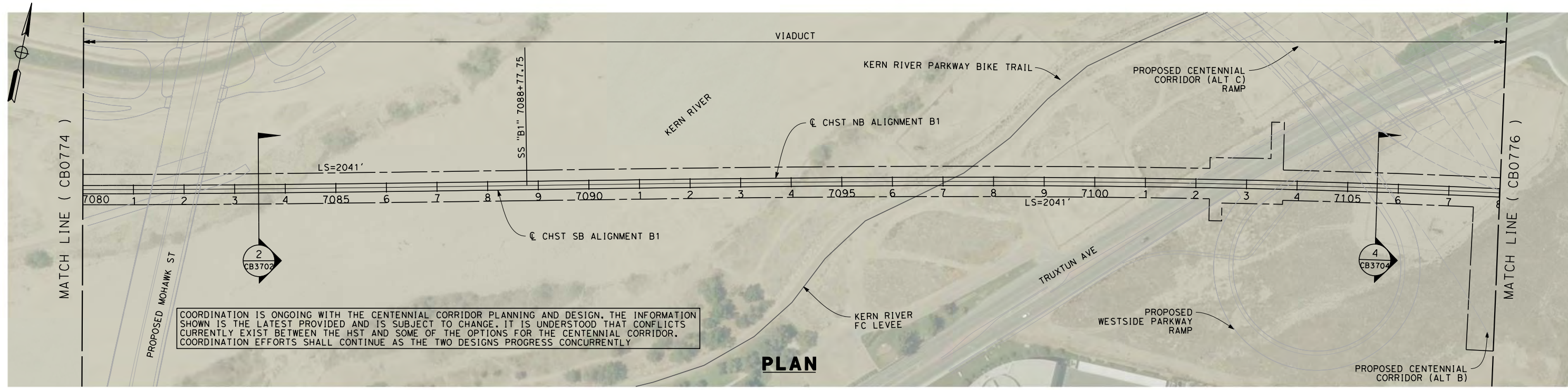


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 7052+00 TO 7080+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0774  
SCALE  
AS SHOWN  
SHEET NO.  
11 OF 37



5/12/2011 3:03:34 PM P:\California High Speed Rail\237507 - Fresno to Bakersfield\CAD\DWG\New Alignment\_30%\_intern\DWG\FB-CB-0775.dgn roy55140



STATION	7080+00	1	2	3	4	7085+00	6	7	8	9	7090+00	1	2	3	4	7095+00	6	7	8	9	7100+00	1	2	3	4	7105+00	6	7	7108+00	TOTAL
Exc																														
Emb																														

DESIGNED BY	E. NG
DRAWN BY	P. ROY
CHECKED BY	P. TURCOTTE
IN CHARGE	T. ROWORTH
DATE	05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



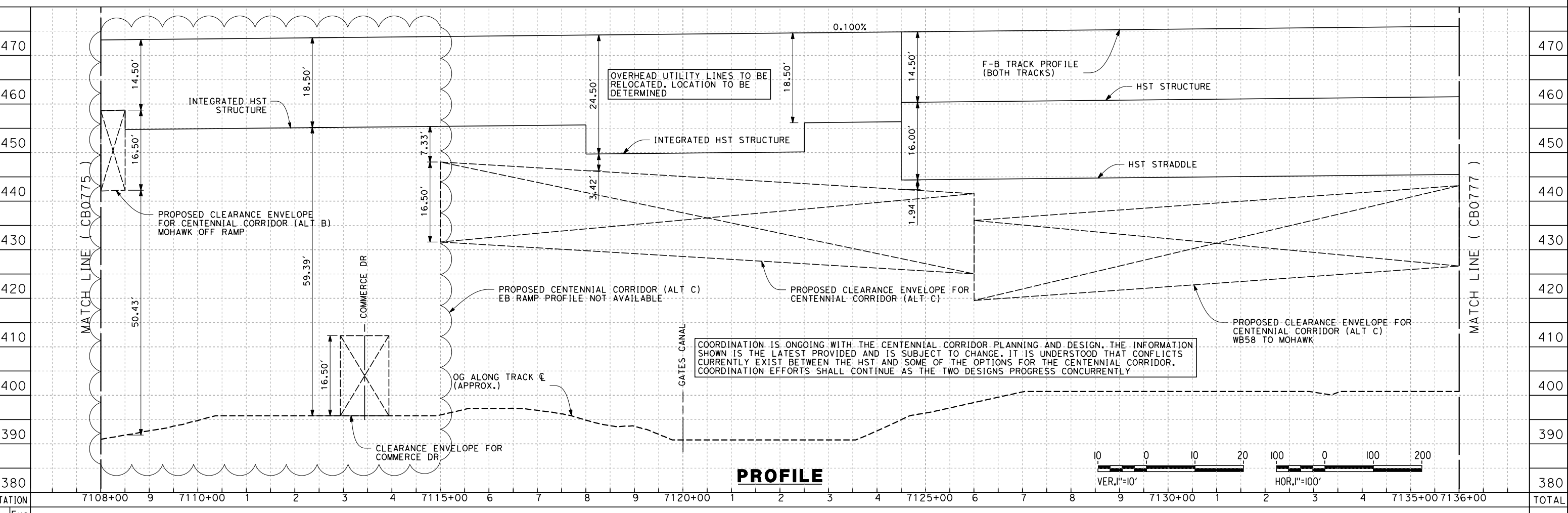
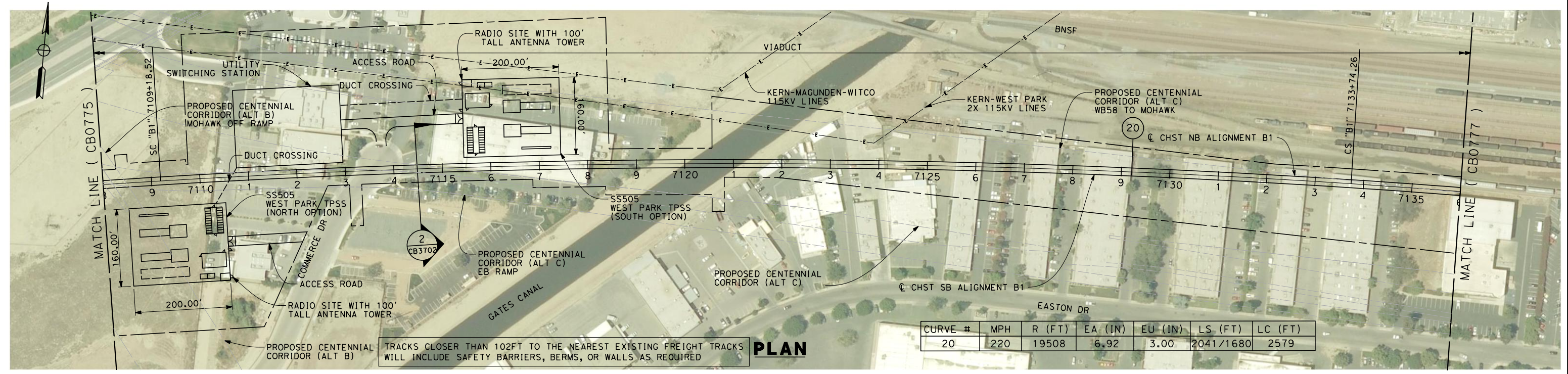
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 7080+00 TO 7108+00  
PLAN AND PROFILE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CB0775
SCALE	AS SHOWN
SHEET NO.	12 OF 37



7/20/2011 5:11:07 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0776.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



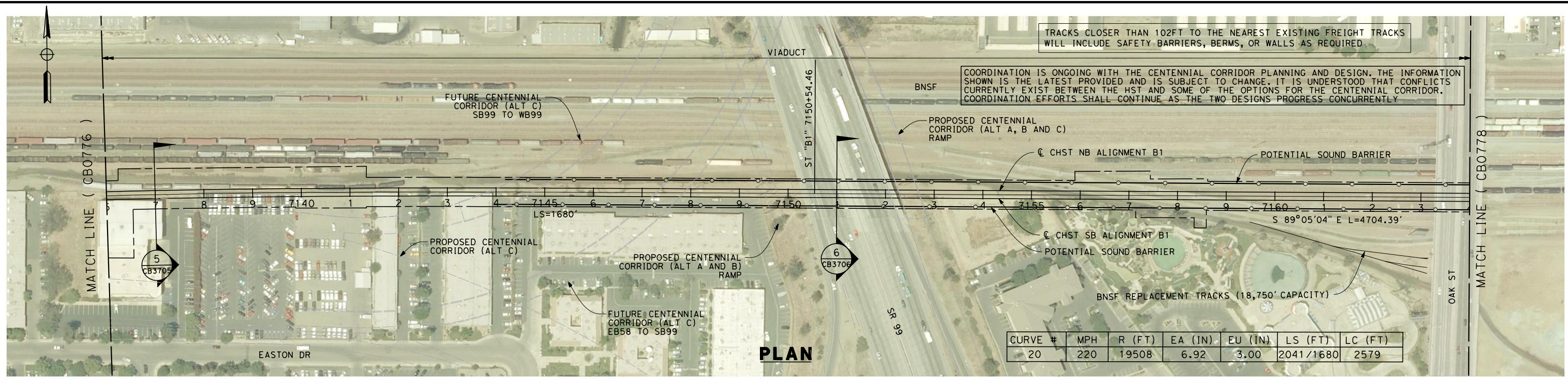
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 7108+00 TO 7136+00  
PLAN AND PROFILE

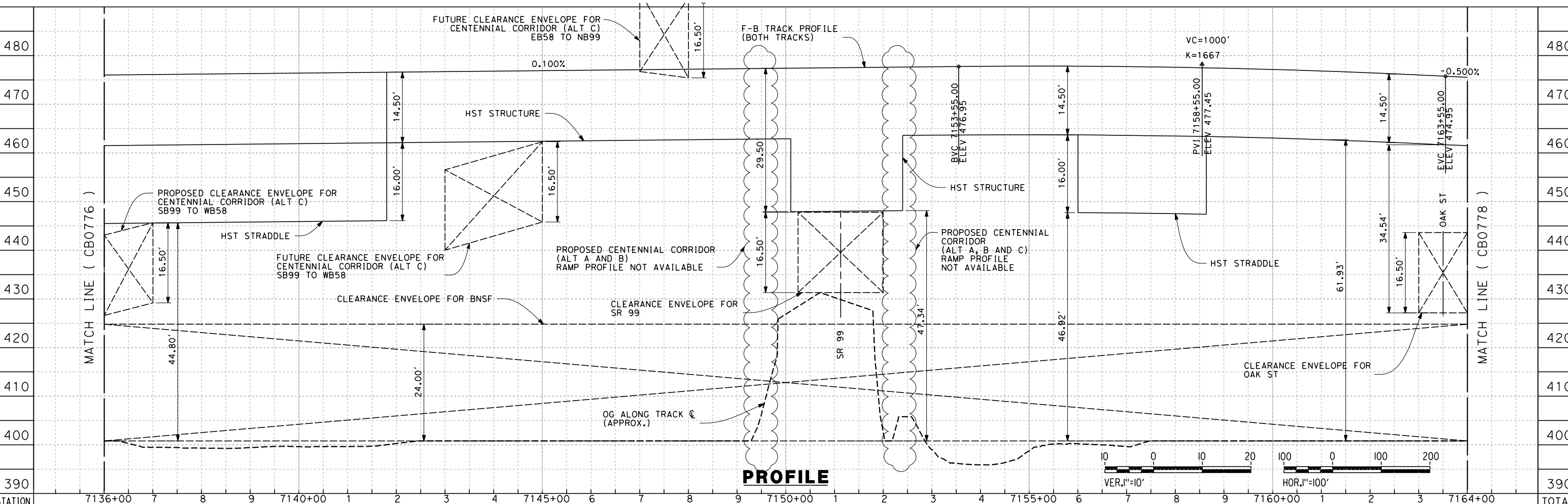
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0776  
SCALE  
AS SHOWN  
SHEET NO.  
13 OF 37



7/20/2011 5:11:42 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0777.dgn



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
20	220	19508	6.92	3.00	2041/1680	2579



STATION	7136+00	7	8	9	7140+00	1	2	3	4	7145+00	6	7	8	9	7150+00	1	2	3	4	7155+00	6	7	8	9	7160+00	1	2	3	7164+00	TOTAL
CY	Exc																													
	Emb																													

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

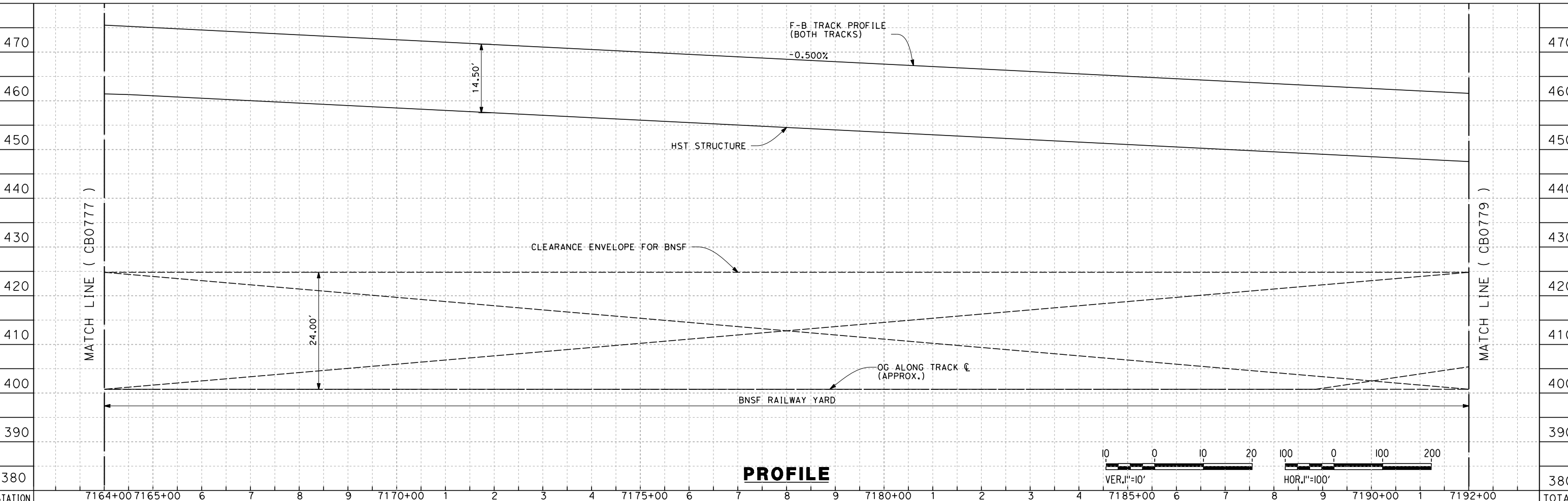
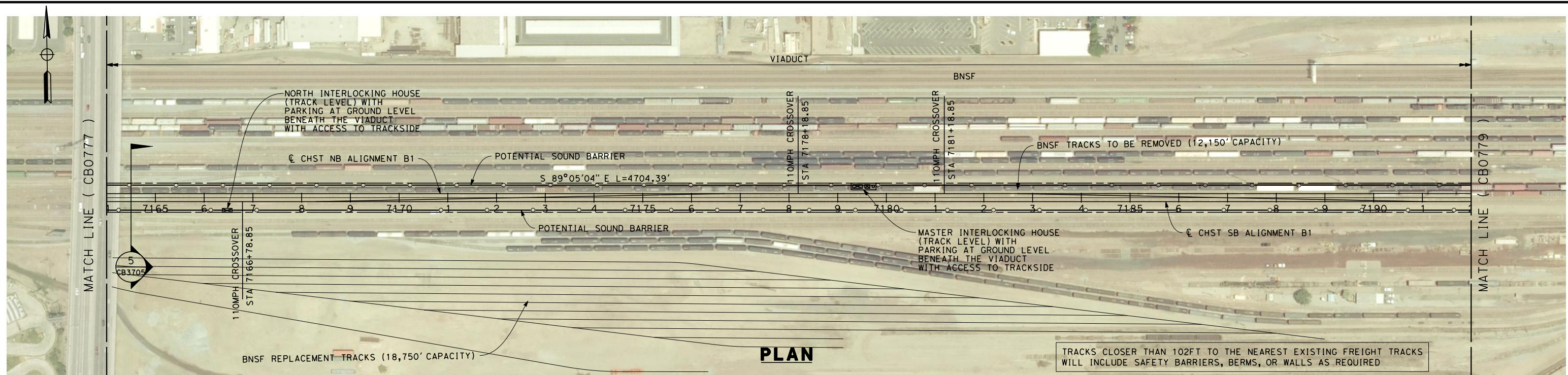


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 7136+00 TO 7164+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0777  
SCALE  
AS SHOWN  
SHEET NO.  
14 OF 37



7/20/2011 5:11:58 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0778.dgn



STATION	7164+00	7165+00	6	7	8	9	7170+00	1	2	3	4	7175+00	6	7	8	9	7180+00	1	2	3	4	7185+00	6	7	8	9	7190+00	1	7192+00	TOTAL
CY																														
	Exc																													
	Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

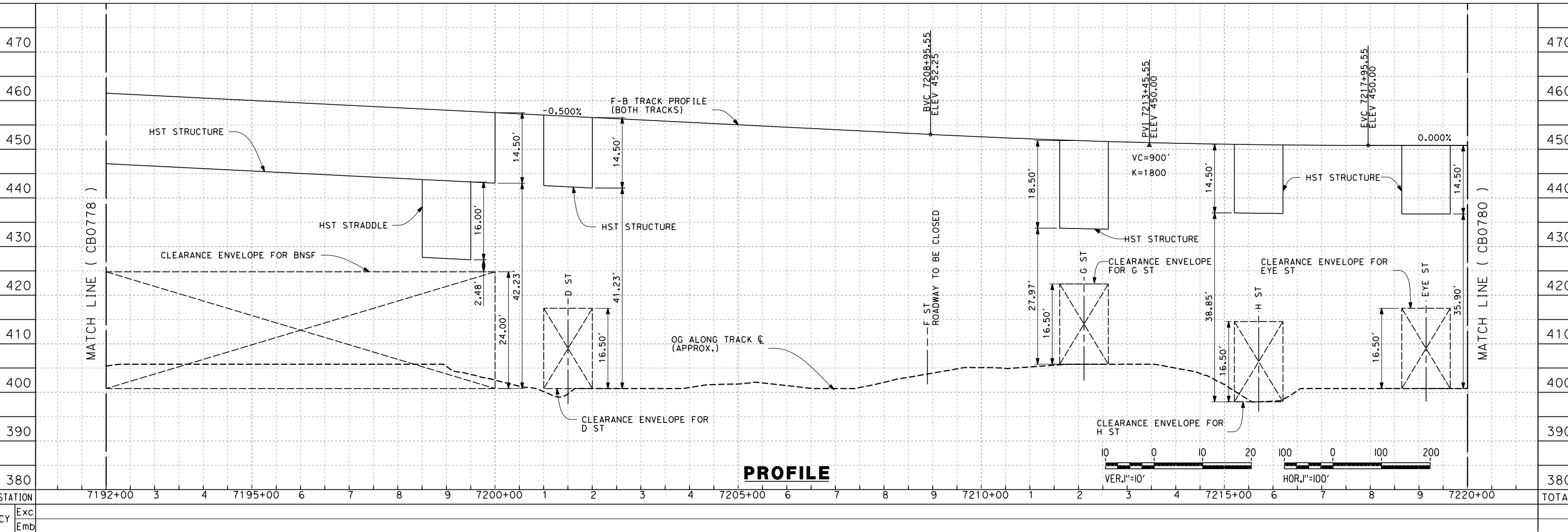
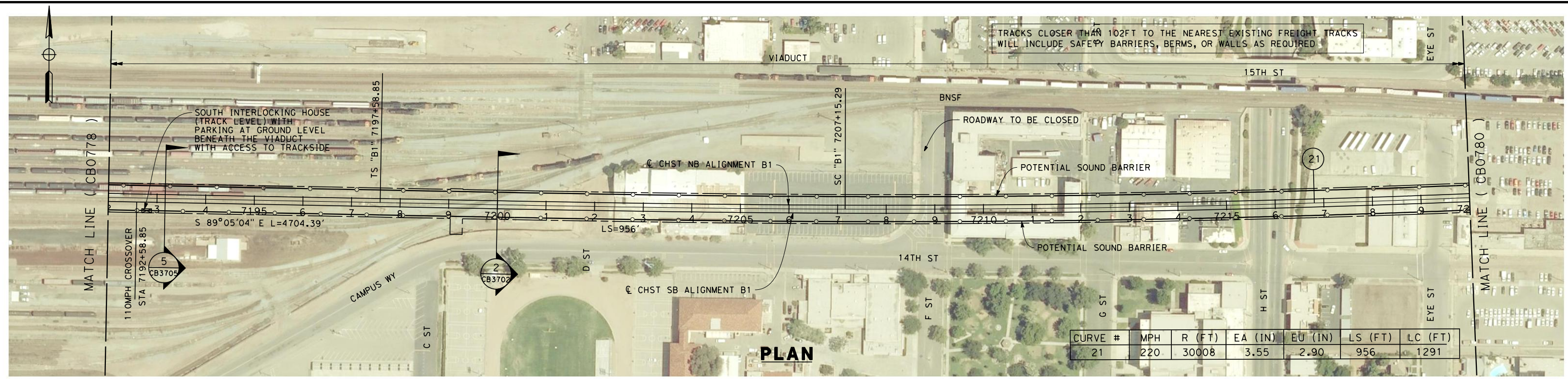


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 7164+00 TO 7192+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0778  
SCALE  
AS SHOWN  
SHEET NO.  
15 OF 37



7/20/2011 5:12:19 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0779.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. RORWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

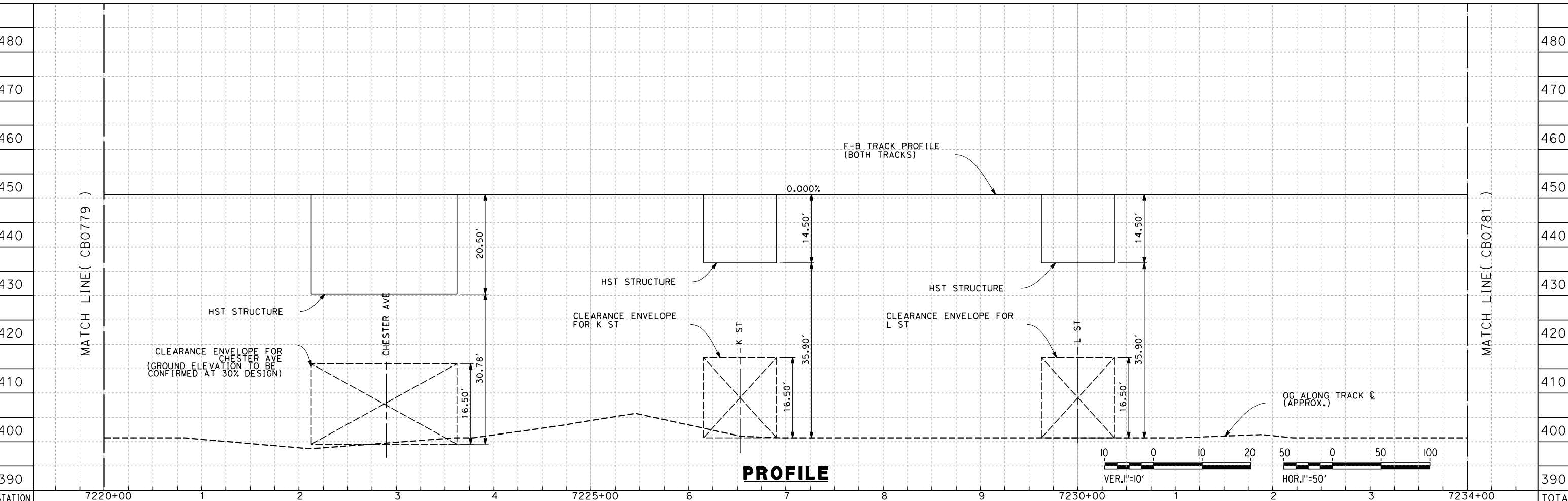
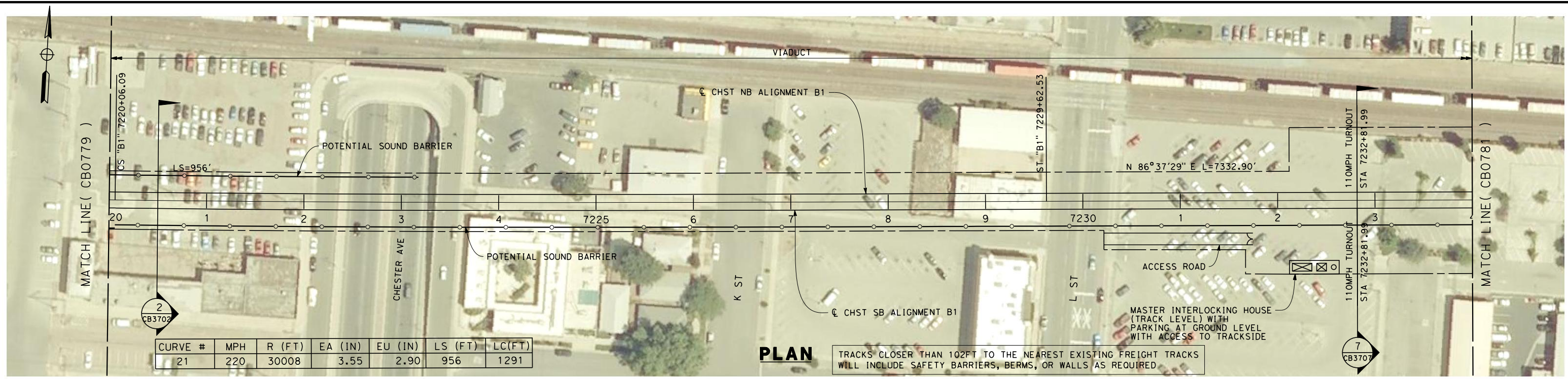


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 7192+00 TO 7220+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0779  
SCALE  
AS SHOWN  
SHEET NO.  
16 OF 37



7/20/2011 5:12:39 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0780.dgn



STATION	7220+00	1	2	3	4	7225+00	6	7	8	9	7230+00	1	2	3	7234+00	TOTAL
CY																
	Exc															
	Emb															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

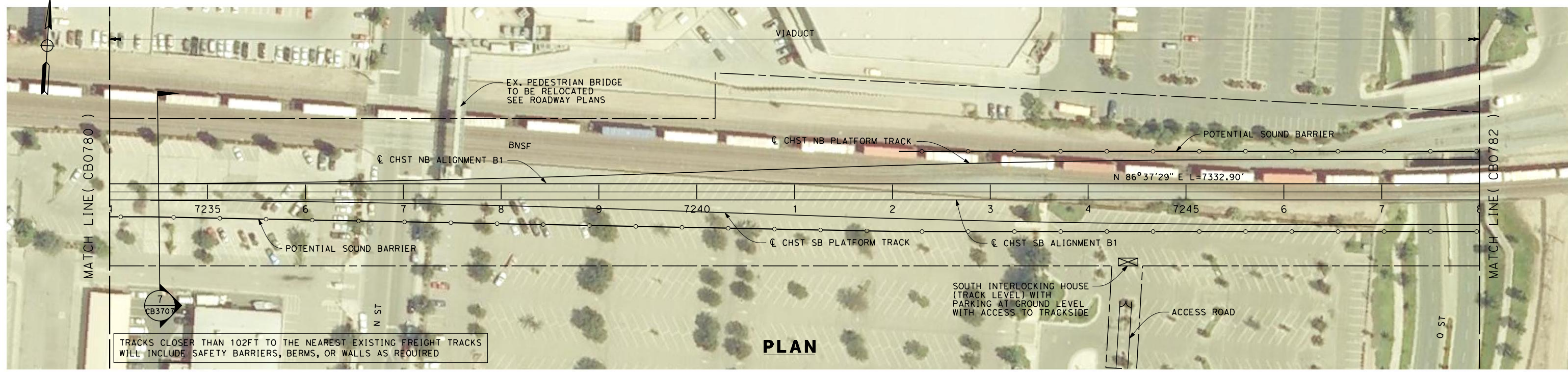


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 7220+00 TO 7234+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0780  
SCALE  
AS SHOWN  
SHEET NO.  
17 OF 37

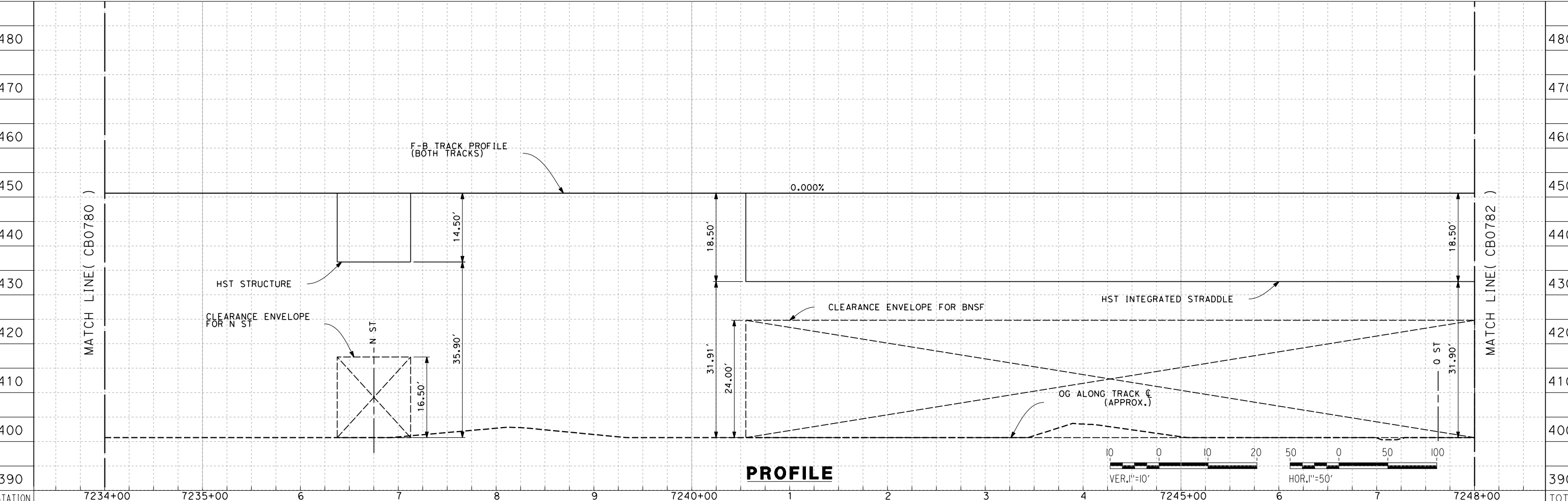


7/20/2011 5:12:58 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0781.dgn



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

**PLAN**



**PROFILE**

STATION	7234+00	7235+00	6	7	8	9	7240+00	1	2	3	4	7245+00	6	7	7248+00	TOTAL
CY	Exc															
	Emb															

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



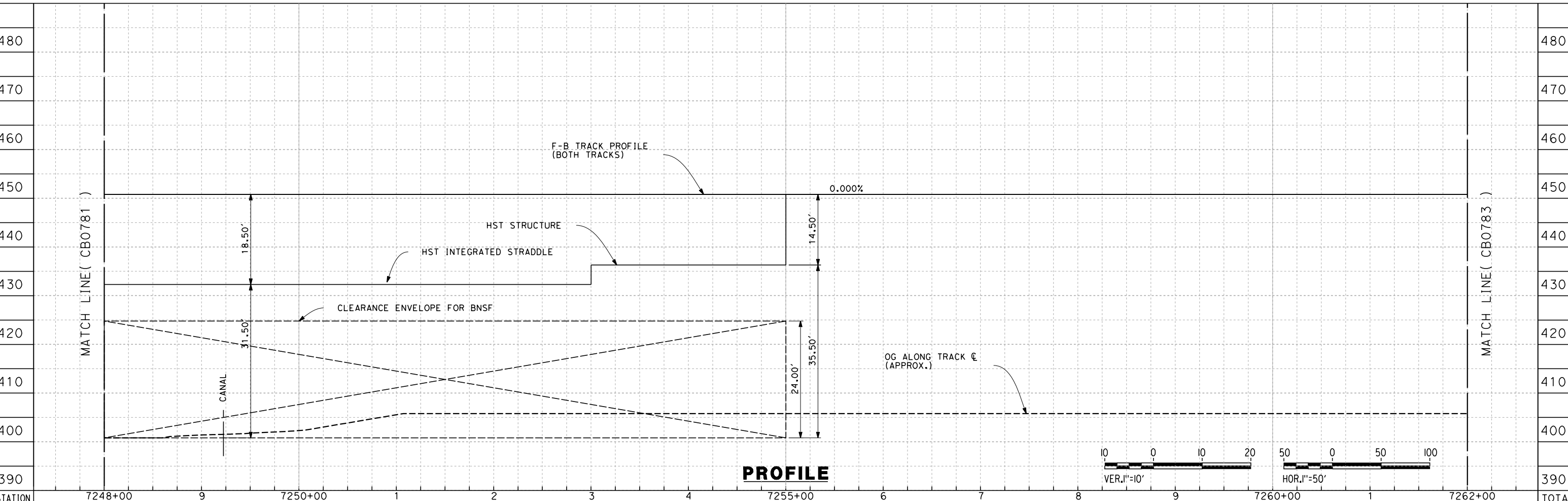
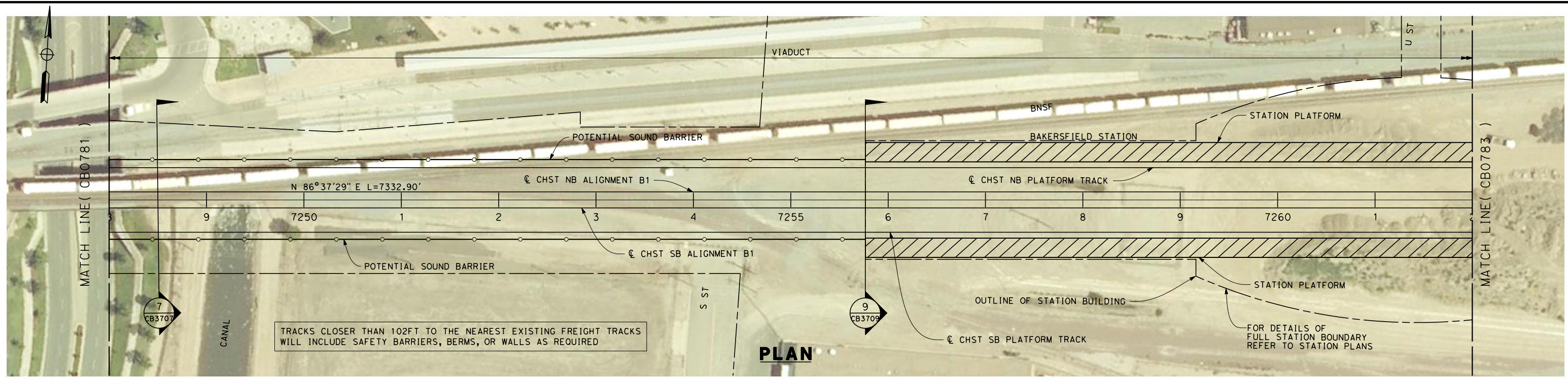
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 7234+00 TO 7248+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0781  
SCALE  
AS SHOWN  
SHEET NO.  
18 OF 37

REV	DATE	BY	CHK	APP	DESCRIPTION



7/20/2011 5:13:15 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0782.dgn



STATION	7248+00	9	7250+00	1	2	3	4	7255+00	6	7	8	7260+00	1	7262+00	TOTAL
CY Exc															
CY Emb															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

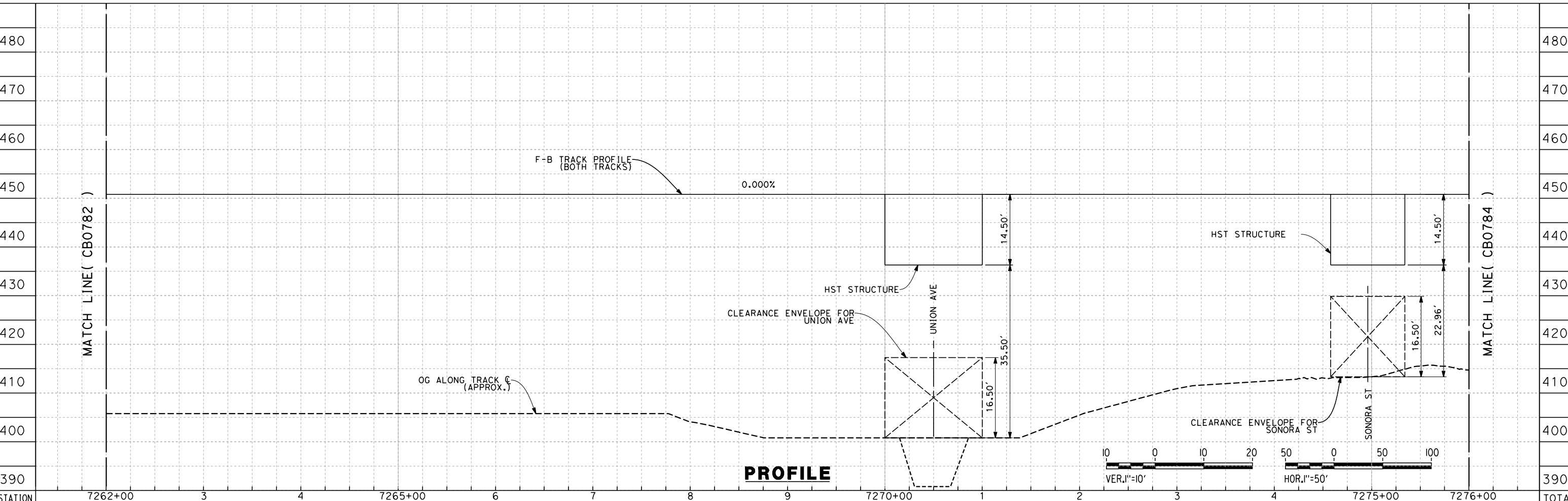
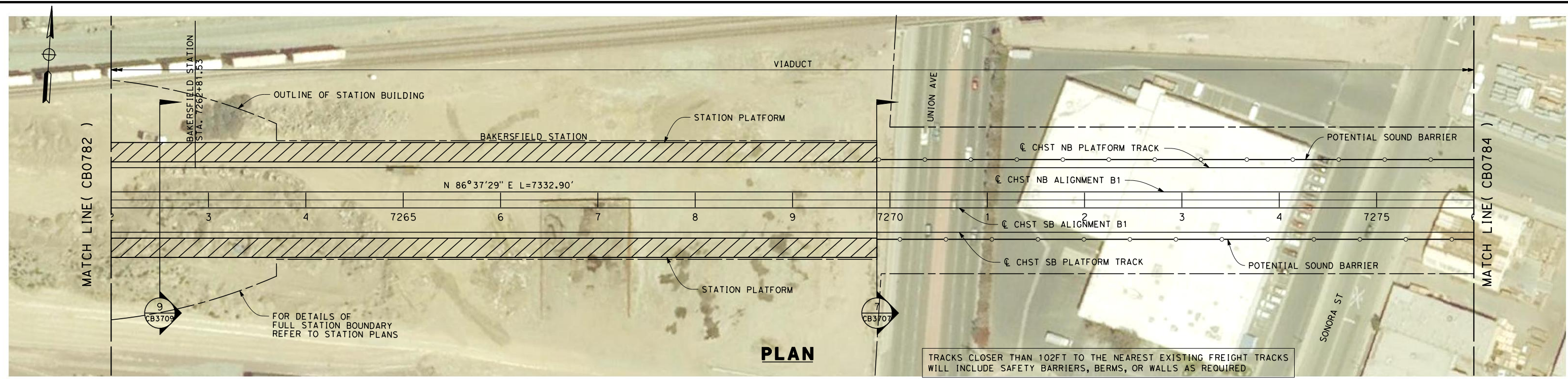


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 7248+00 TO 7262+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0782  
SCALE  
AS SHOWN  
SHEET NO.  
19 OF 37



7/20/2011 5:13:33 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0783.dgn



STATION	7262+00	3	4	7265+00	6	7	8	9	7270+00	1	2	3	4	7275+00	7276+00	TOTAL
Exc																
Emb																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

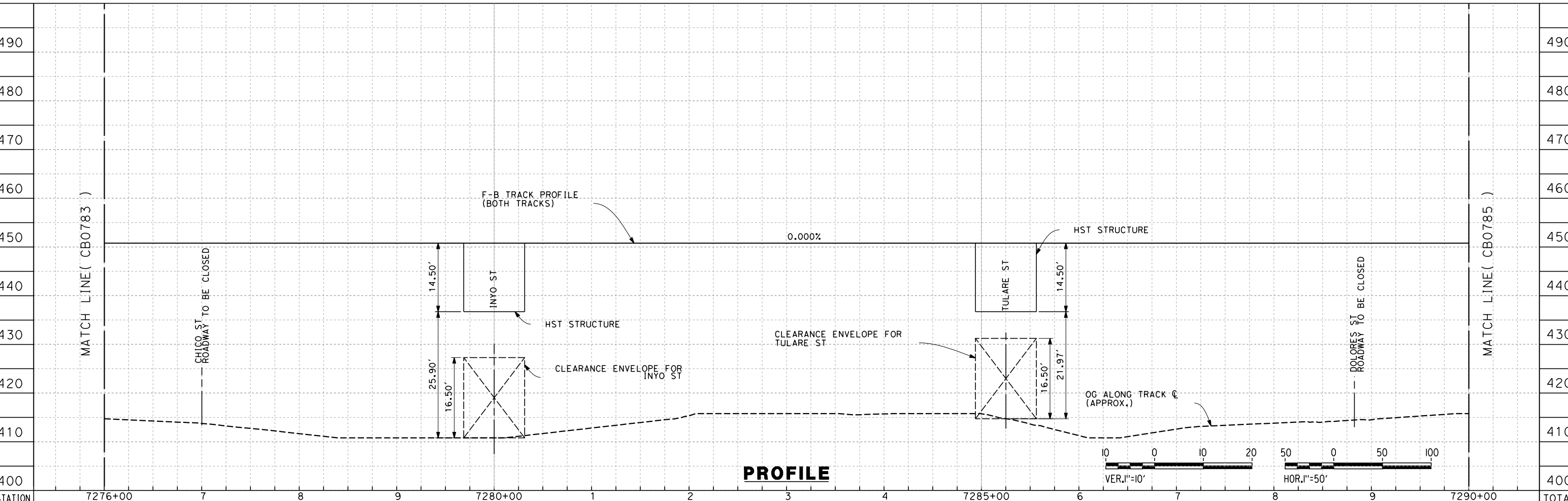
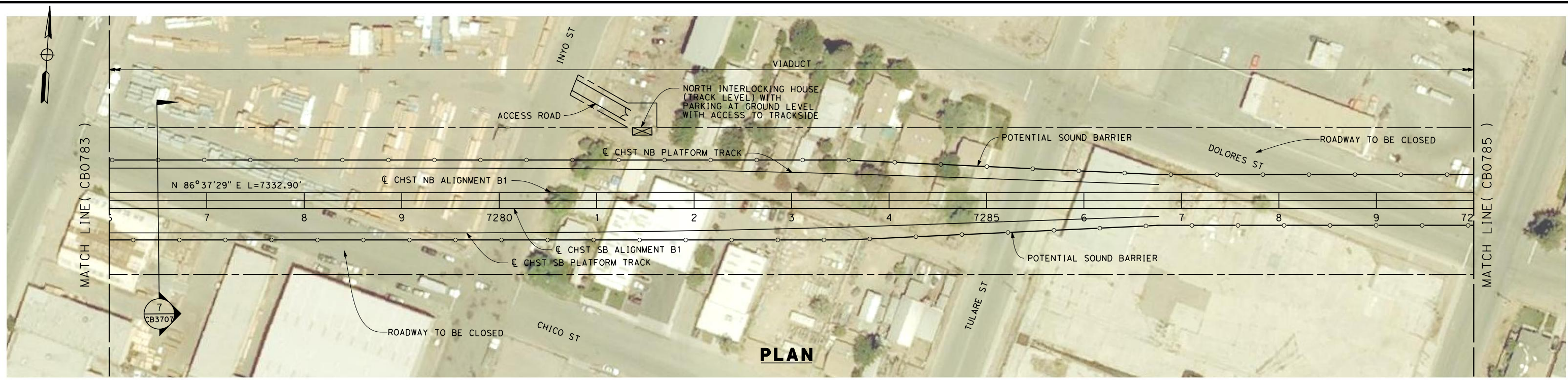


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 7262+00 TO 7276+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0783  
SCALE  
AS SHOWN  
SHEET NO.  
20 OF 37



7/20/2011 5:13:59 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0784.dgn



STATION	7276+00	7	8	9	7280+00	1	2	3	4	5	6	7285+00	7	8	9	7290+00	TOTAL
Exc																	
Emb																	

DESIGNED BY	E. NG
DRAWN BY	P. ROY
CHECKED BY	P. TURCOTTE
IN CHARGE	T. ROWORTH
DATE	05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

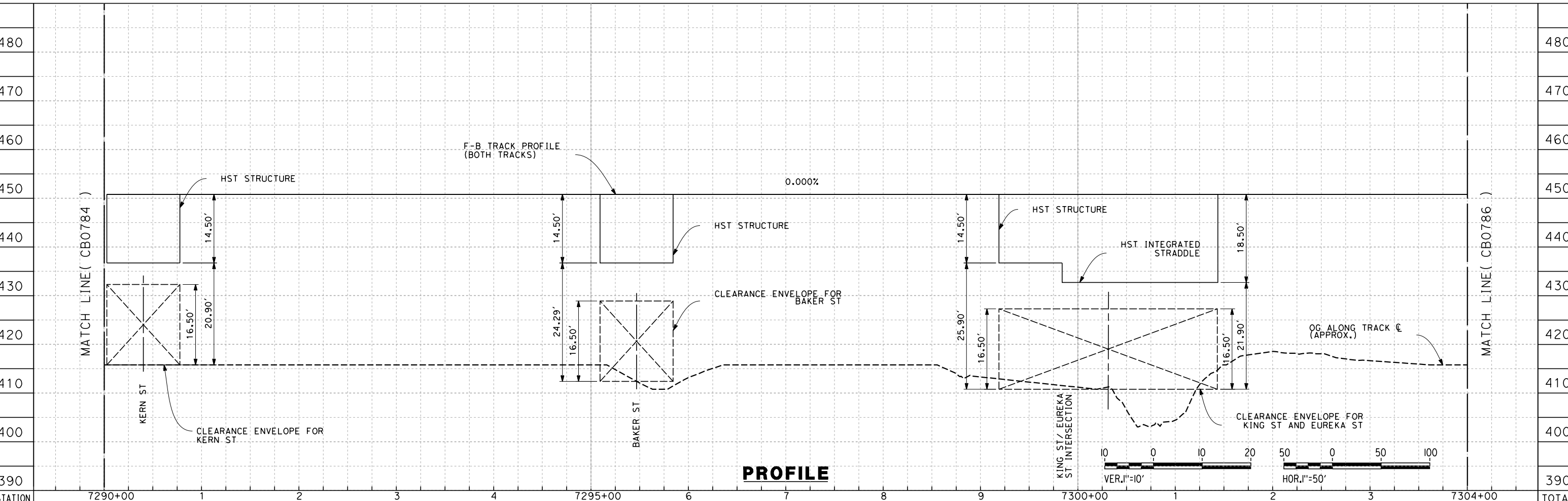
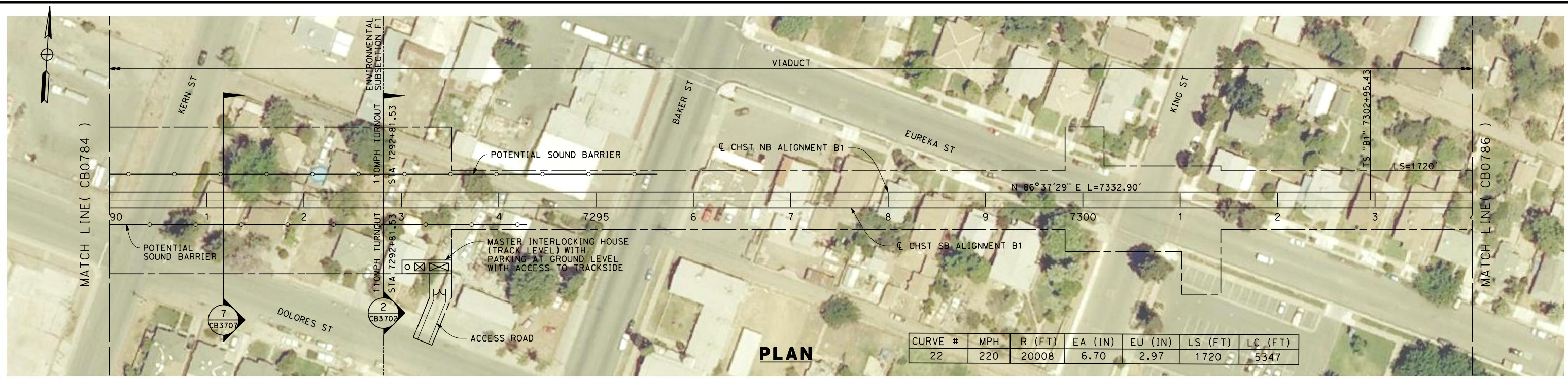


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 STA. 7276+00 TO 7290+00  
 PLAN AND PROFILE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CB0784
SCALE	AS SHOWN
SHEET NO.	21 OF 37



7/20/2011 4:47:08 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0785.dgn



STATION	7290+00	1	2	3	4	7295+00	6	7	8	9	7300+00	1	2	3	7304+00	TOTAL
Exc																
Emb																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
STA. 7290+00 TO 7304+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
CB0785

SCALE  
AS SHOWN

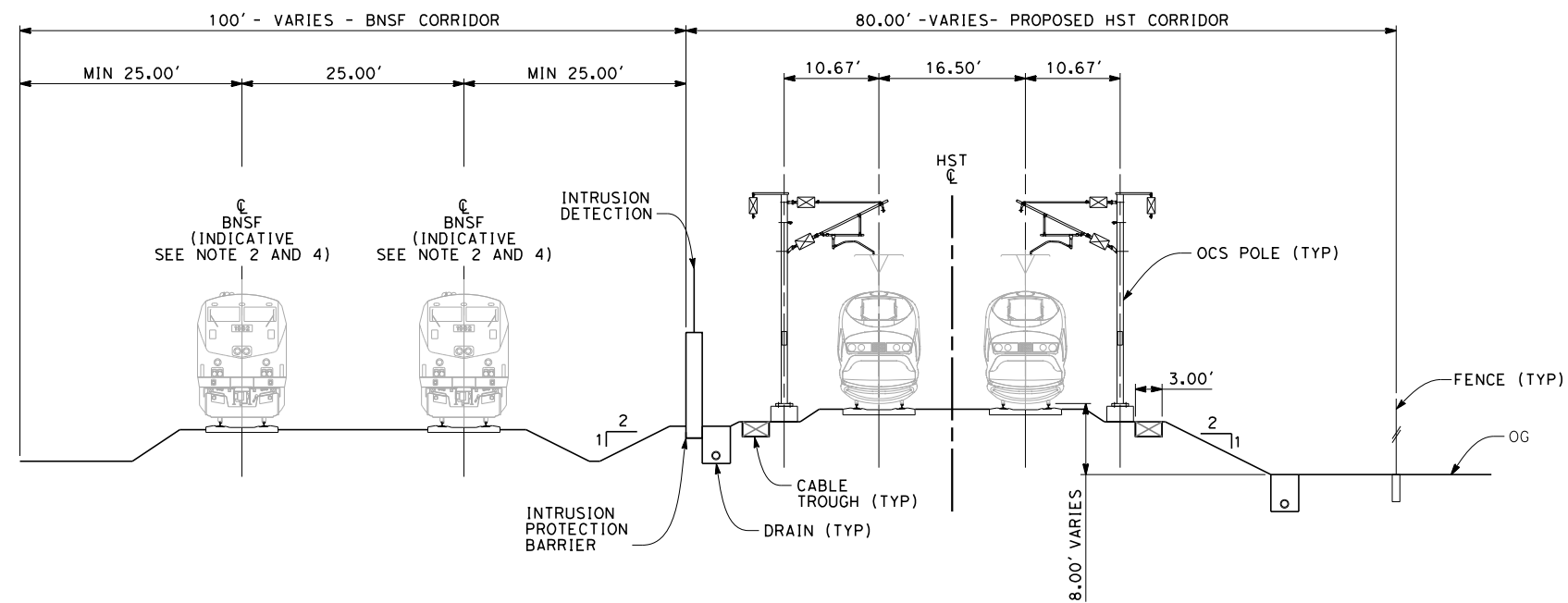
SHEET NO.  
22 OF 37



7/22/2011 2:52:24 PM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3701.dgn

**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. BNSF RELOCATED BEYOND STATION 6876+49.
3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
4. INDICATIVE BNSF RELOCATION SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR WHERE APPLICABLE. DETAILS TO BE CONFIRMED FOLLOWING DETAIL SURVEYS.
5. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 1**

HST AT GRADE LOOKING SOUTHBOUND  
STATIONS 6799+46.99 TO 6925+50



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NG
DRAWN BY P. ROY
CHECKED BY P. TURCOTTE
IN CHARGE T. ROWORTH
DATE 05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
CROSS SECTIONS

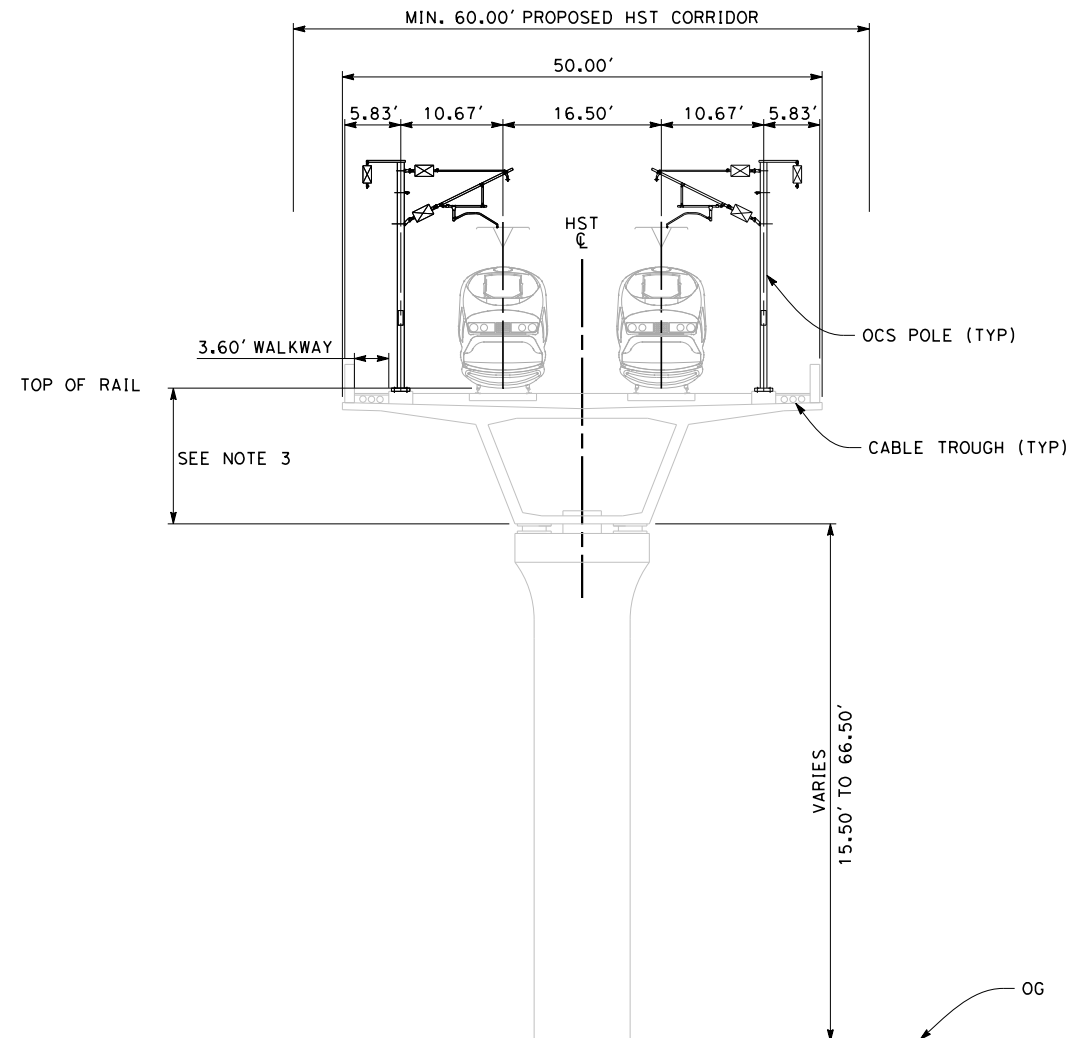
CONTRACT NO. HSR 06-0003
DRAWING NO. CB3701
SCALE AS SHOWN
SHEET NO. 28 OF 37



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**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
3. DEPTH OF VIADUCT STRUCTURE VARIES FROM 14.50' to 24.50' FOR INDICATED STATION RANGE.
4. SINGLE PIER STRUCTURE SHOWN FOR GENERAL PURPOSES. STRADDLE BENT/OUTRIGGER STRUCTURES ARE PRESENT WITHIN INDICATED STATION RANGE. PLEASE REFER TO STRUCTURAL DRAWINGS.
5. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 2**

TWIN TRACK AERIAL STRUCTURE LOOKING SOUTHBOUND  
 STATIONS 6932+10 TO 7137+00  
 STATIONS 7200+00 TO 7232+20  
 STATIONS 7293+60 TO 7376+00



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NG
DRAWN BY P. ROY
CHECKED BY P. TURCOTTE
IN CHARGE T. ROWORTH
DATE 05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**

**NOT FOR  
 CONSTRUCTION**



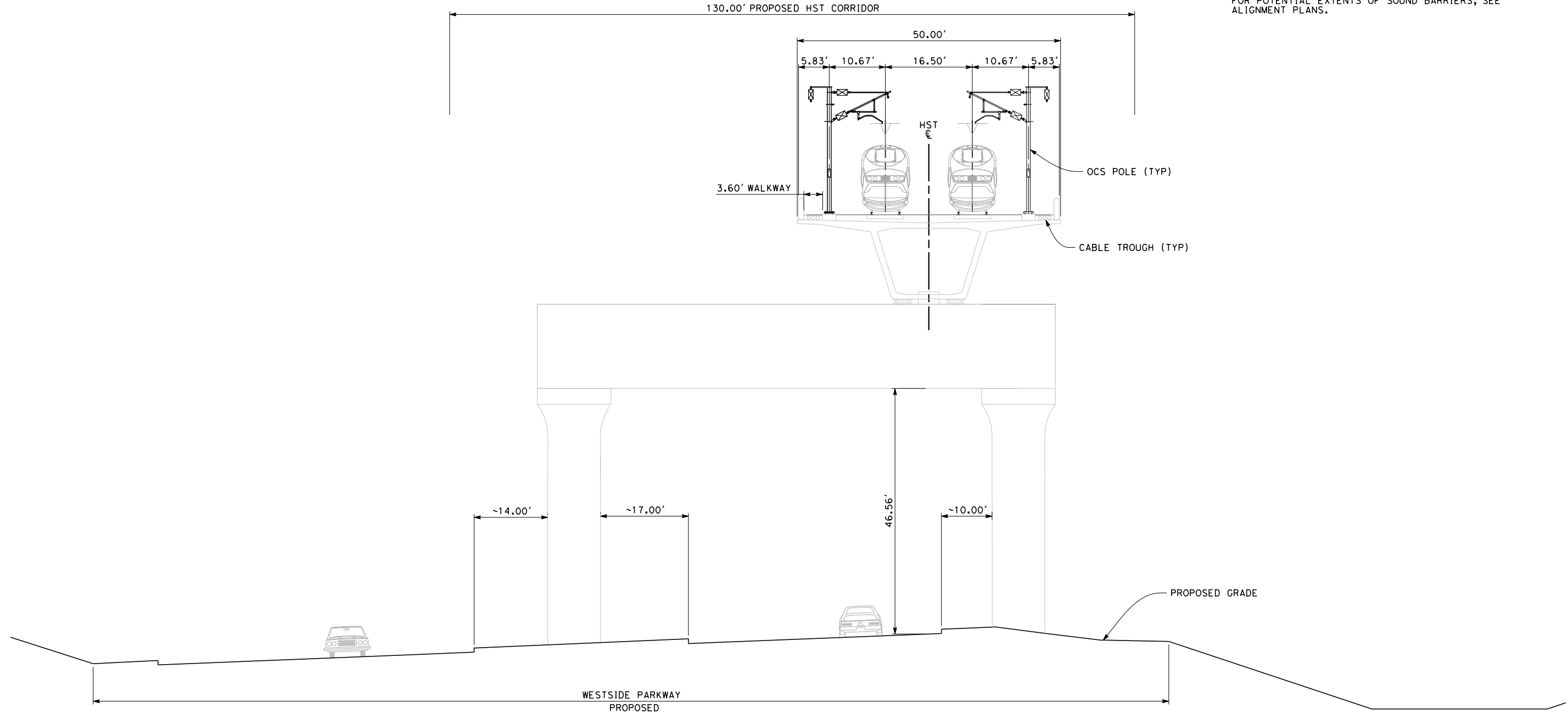
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CB3702
SCALE AS SHOWN
SHEET NO. 29 OF 37



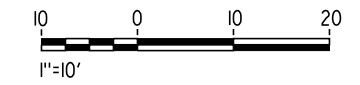
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- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE.
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
  3. SUPERELEVATION IS NOT SHOWN, THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
  4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 3**

TWIN TRACK AERIAL STRUCTURE  
OVERLAPPING PROPOSED WESTSIDE PARKWAY LOOKING SOUTHBOUND  
STATION 7040+60



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



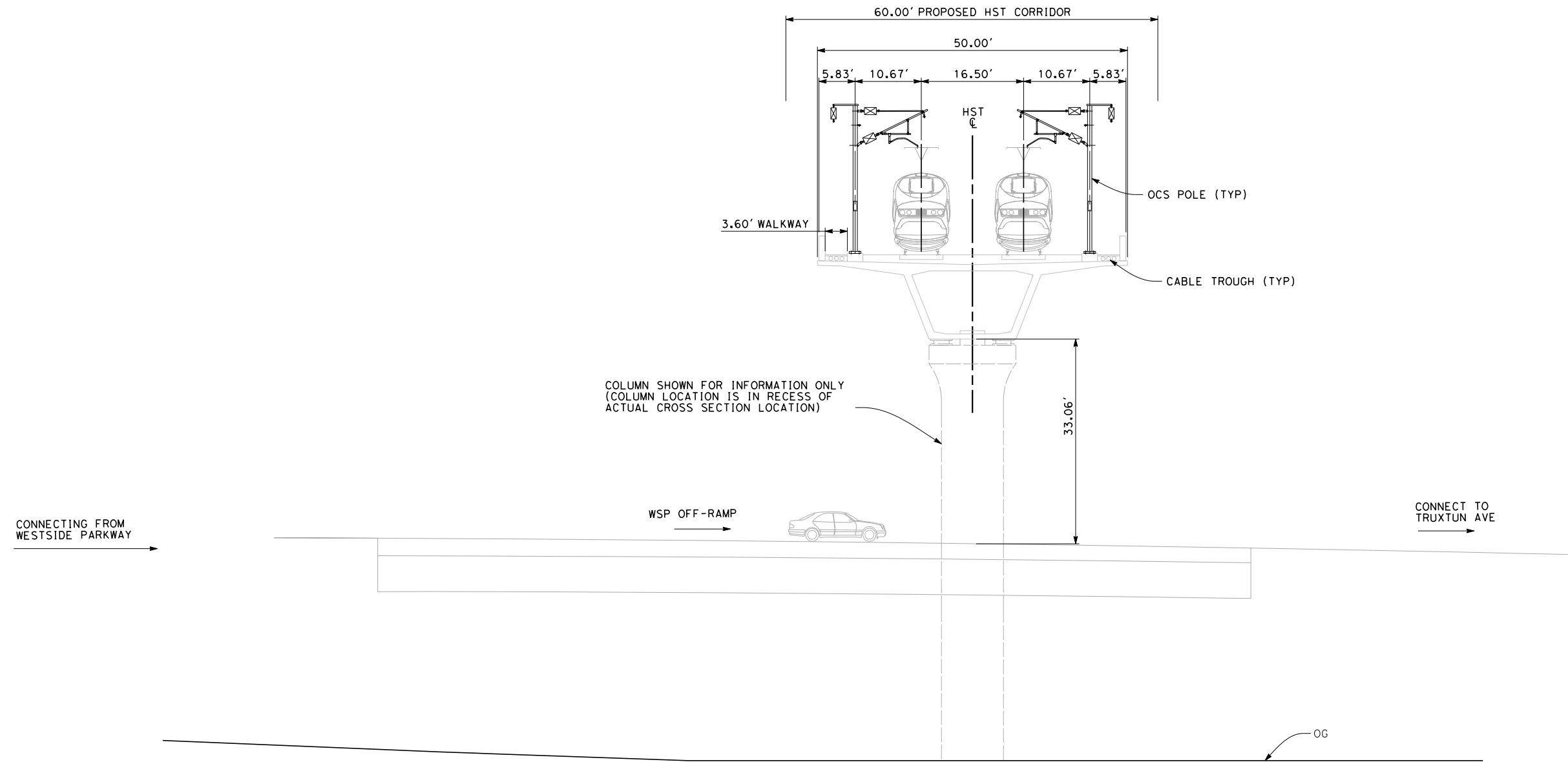
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB3703  
SCALE  
AS SHOWN  
SHEET NO.  
30 OF 37



7/20/2011 5:16:37 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3704.dgn

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE.
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
  3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



COLUMN SHOWN FOR INFORMATION ONLY  
(COLUMN LOCATION IS IN RECESS OF  
ACTUAL CROSS SECTION LOCATION)

**SECTION 4**

TWIN TRACK AERIAL STRUCTURE WITH  
WESTSIDE PARKWAY OFF-RAMP CONNECTING TO TRUXTUN AVE LOOKING SOUTHBOUND  
STATION 7105+60



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
CROSS SECTIONS

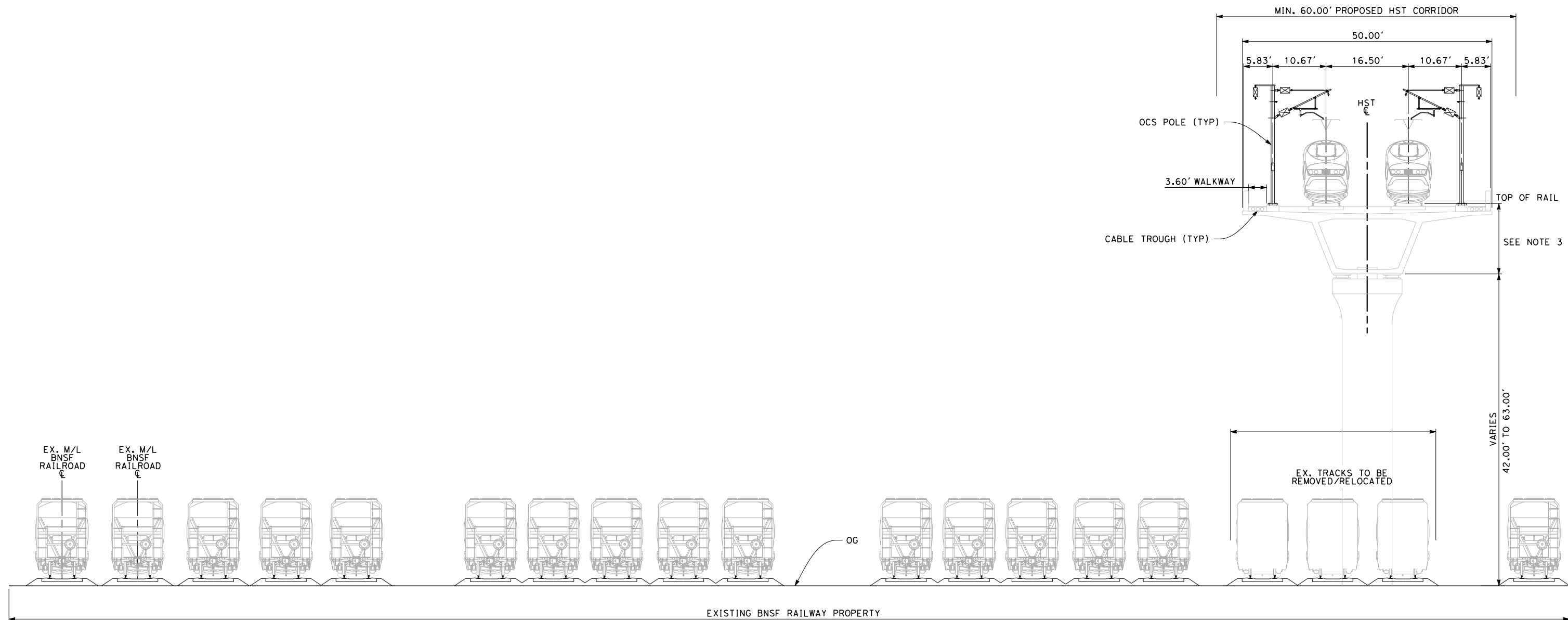
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB3704  
SCALE  
AS SHOWN  
SHEET NO.  
31 OF 37



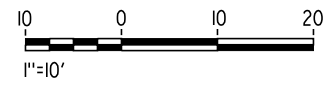
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**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
3. DEPTH OF VIADUCT STRUCTURE VARIES FROM 14.50' to 29.50' FOR INDICATED STATION RANGE.
4. SINGLE PIER STRUCTURE SHOWN FOR GENERAL PURPOSES. STRADDLE BENT/OUTRIGGER STRUCTURES ARE PRESENT WITHIN INDICATED STATION RANGE. PLEASE REFER TO STRUCTURAL DRAWINGS.
5. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 5**  
TWIN TRACK AERIAL STRUCTURE WITH  
BNSF RAILWAY YARD LOOKING SOUTHBOUND  
STATIONS 7137+00 TO 7200+00



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NG
DRAWN BY P. ROY
CHECKED BY P. TURCOTTE
IN CHARGE T. ROWORTH
DATE 05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
CROSS SECTIONS

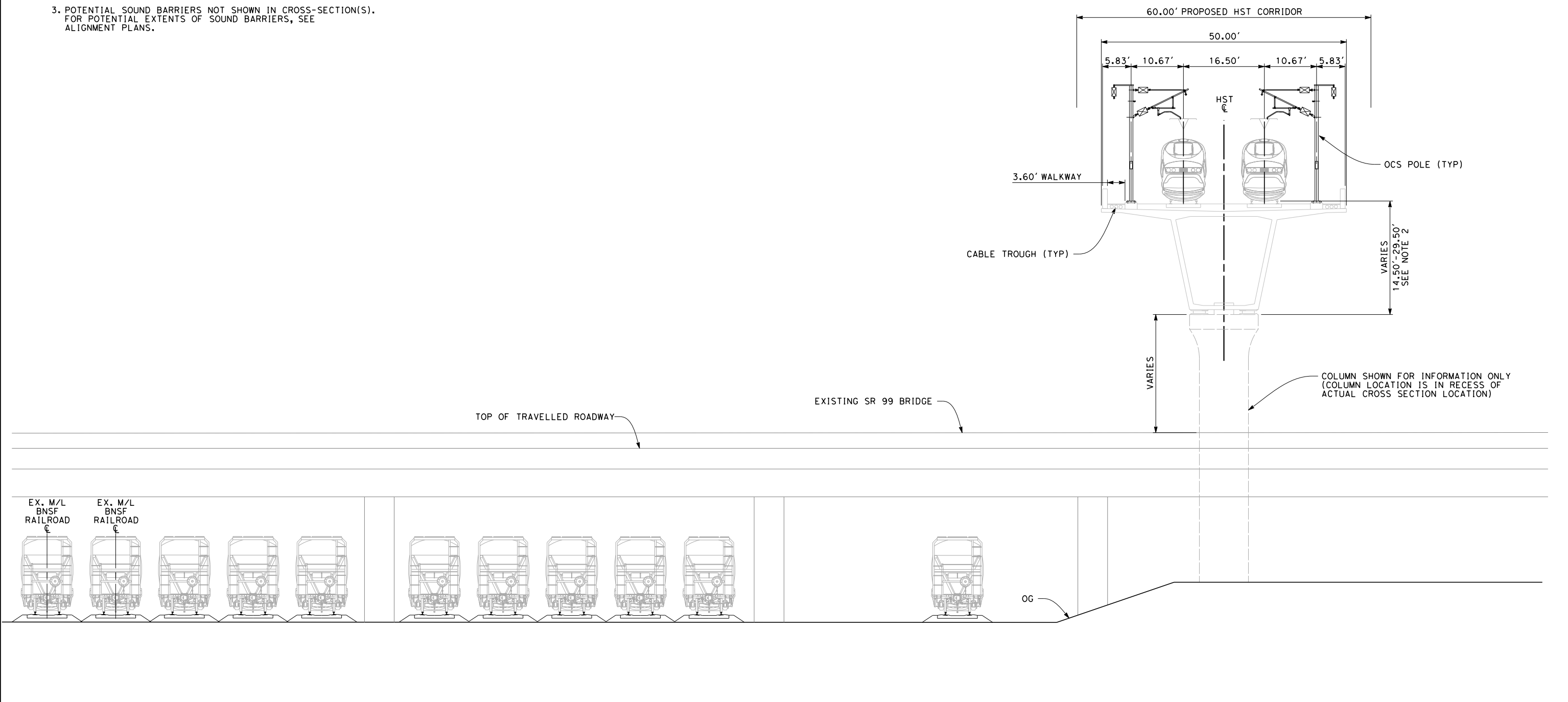
CONTRACT NO. HSR 06-0003
DRAWING NO. CB3705
SCALE AS SHOWN
SHEET NO. 32 OF 37



7/20/2011 5:17:15 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3706.dgn

**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 6**

TWIN TRACK AERIAL STRUCTURE  
 HST OVERLAPPING SR 99 BRIDGE LOOKING SOUTHBOUND  
 STATION 7151+00



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NG
DRAWN BY P. ROY
CHECKED BY P. TURCOTTE
IN CHARGE T. ROWORTH
DATE 05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**

**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 CROSS SECTIONS

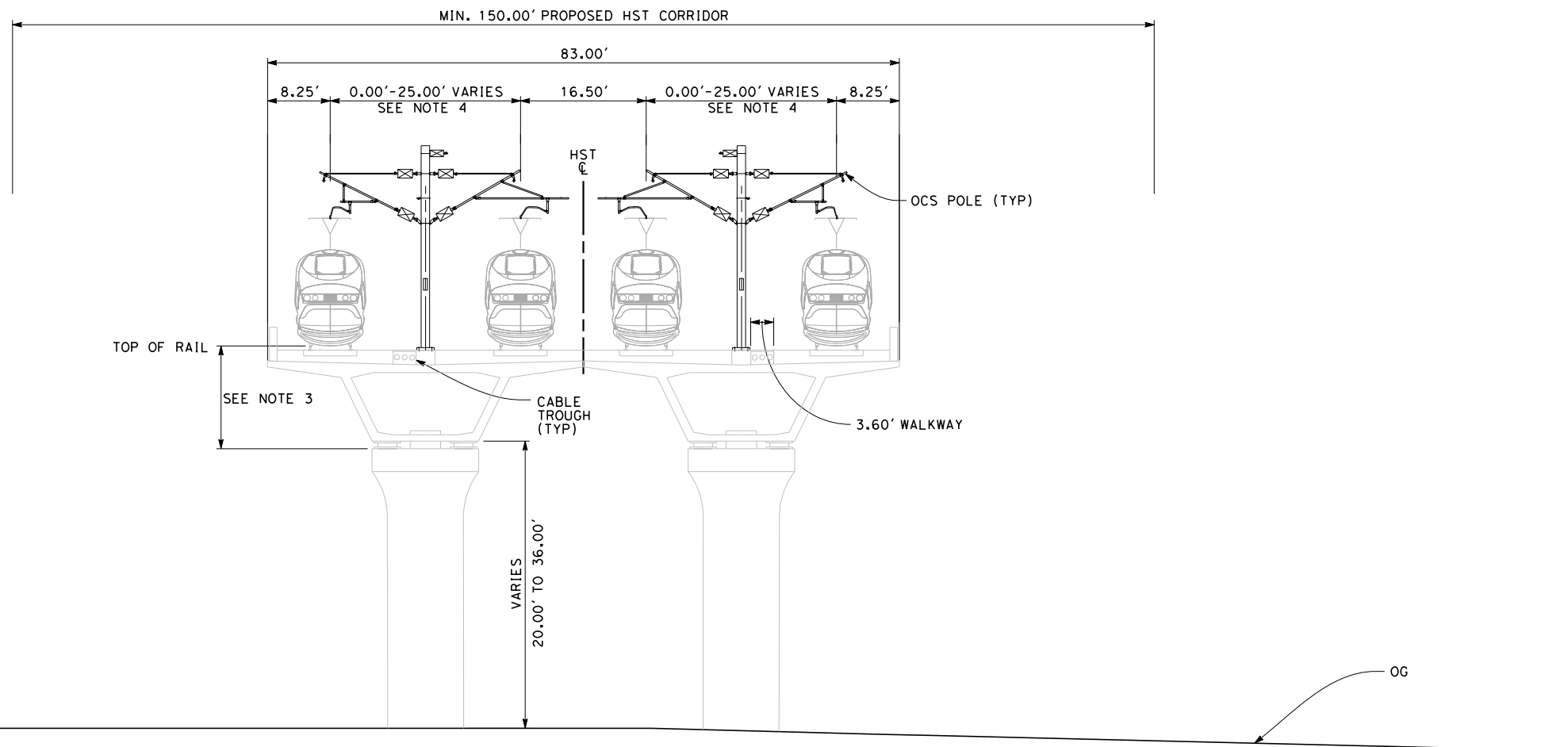
CONTRACT NO. HSR 06-0003
DRAWING NO. CB3706
SCALE AS SHOWN
SHEET NO. 33 OF 37



7/20/2011 5:17:26 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3707.dgn

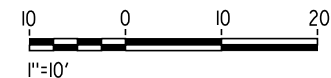
**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
3. DEPTH OF VIADUCT STRUCTURE VARIES FROM 14.50' to 18.50' FOR INDICATED STATION RANGE.
4. DISTANCE BETWEEN TRACKS VARIES FROM 0.00'-25.00' THROUGH TURNOUT AND REVERSE TO PARALLEL.
5. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 7**

FOUR TRACK STRUCTURE LOOKING SOUTHBOUND  
 STATIONS 7232+82 TO 7255+80  
 STATIONS 7269+90 TO 7292+82



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NG
DRAWN BY P. ROY
CHECKED BY P. TURCOTTE
IN CHARGE T. ROWORTH
DATE 05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**

**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 CROSS SECTIONS

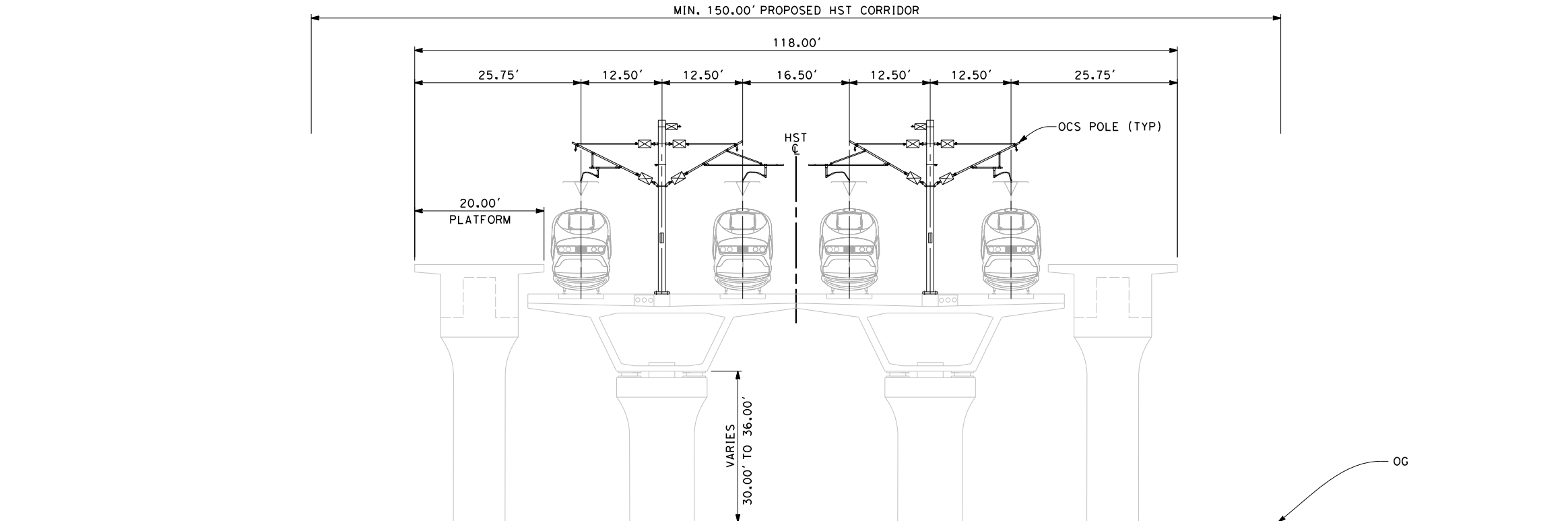
CONTRACT NO. HSR 06-0003
DRAWING NO. CB3707
SCALE AS SHOWN
SHEET NO. 34 OF 37



7/20/2011 5:17:58 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3709.dgn

**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 9**

FOUR TRACK STRUCTURE AT BAKERSFIELD STATION LOOKING SOUTHBOUND  
STATIONS 7255+80 TO 7269+90



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NG
DRAWN BY P. ROY
CHECKED BY P. TURCOTTE
IN CHARGE T. ROWORTH
DATE 05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
CROSS SECTIONS

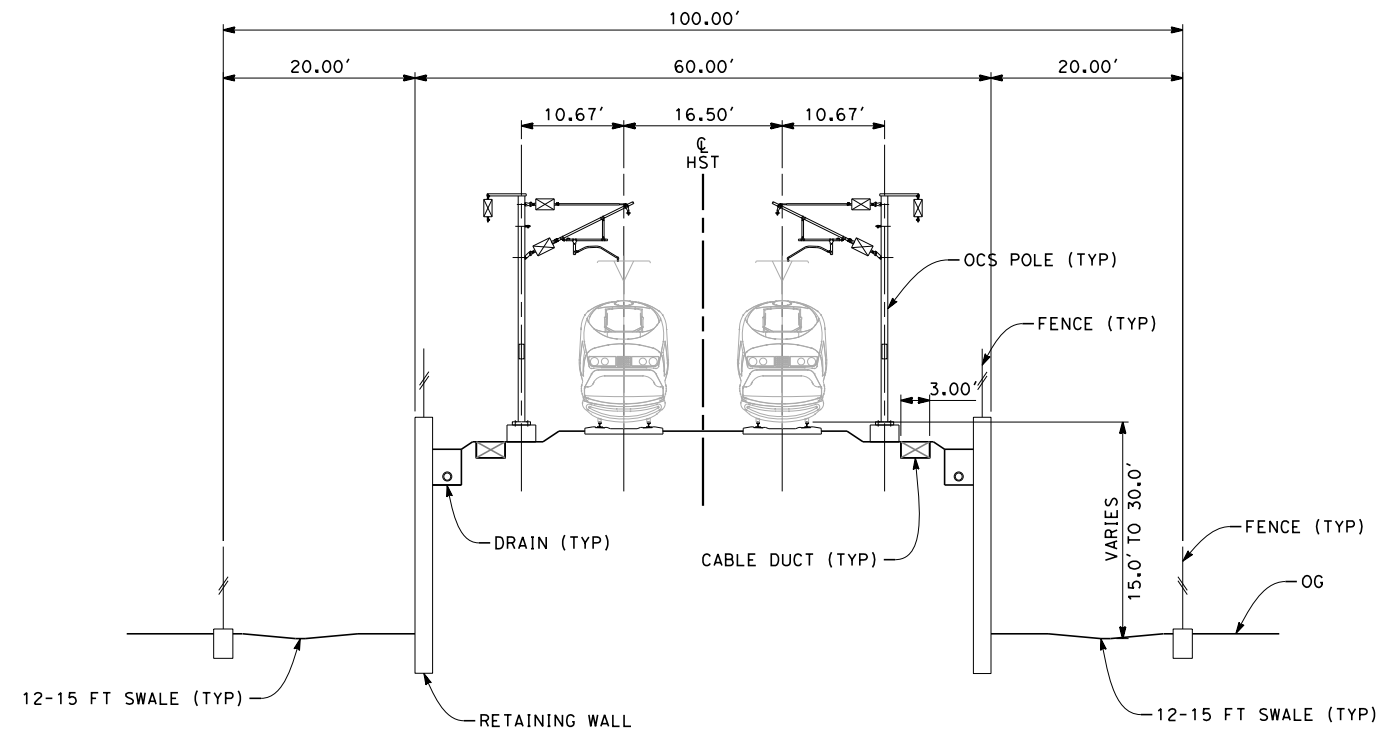
CONTRACT NO. HSR 06-0003
DRAWING NO. CB3709
SCALE AS SHOWN
SHEET NO. 36 OF 37



7/20/2011 5:18:11 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3710.dgn

**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 10**

TWIN TRACK ON RETAINING WALL  
LOOKING SOUTHBOUND  
STATIONS 6924+50 TO 6939+10



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

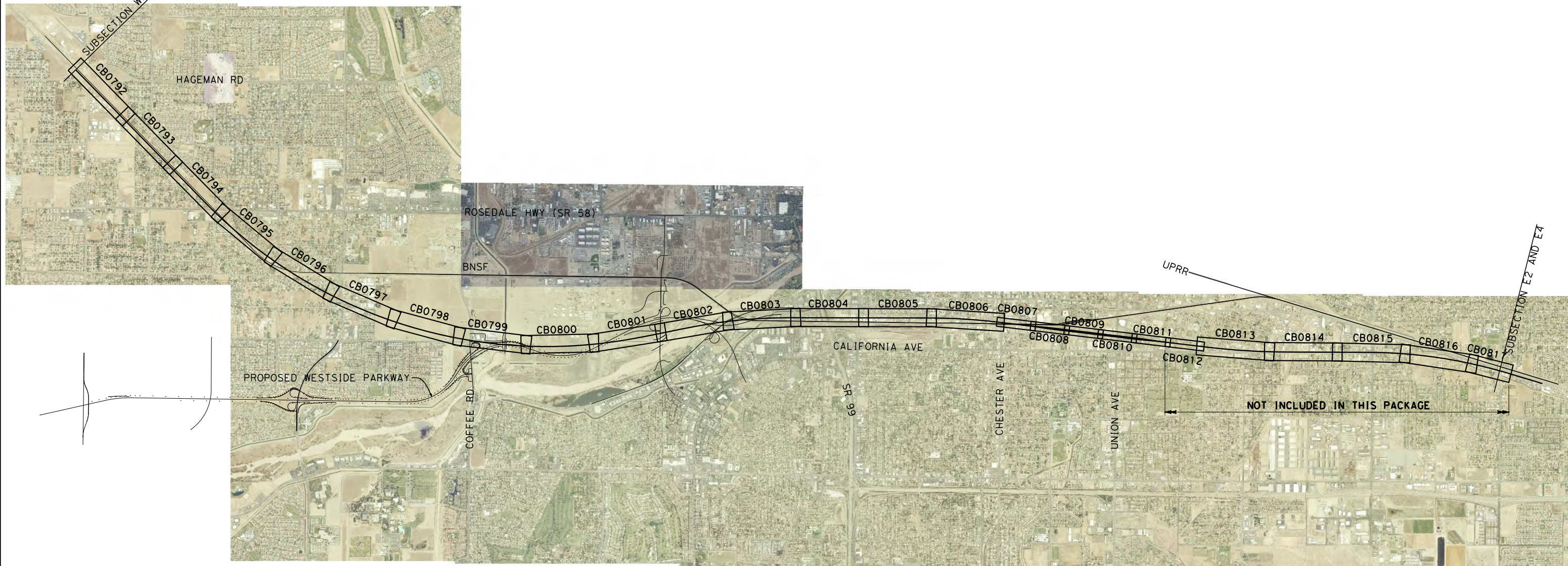
**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



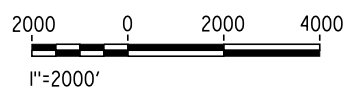
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB3710  
SCALE  
AS SHOWN  
SHEET NO.  
37 OF 37





LEGEND	
	EXISTING FREIGHT RAILROAD / PROPOSED WESTSIDE PARKWAY
	PROPOSED CHST



\$USER \$ DATE \$ \$TIME \$ \$FILE \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
 DRAWN BY  
P. ROY  
 CHECKED BY  
P. TURCOTTE  
 IN CHARGE  
T. ROWORTH  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B2  
 STA. 6799+21.15 TO 7427+00  
 KEY MAP

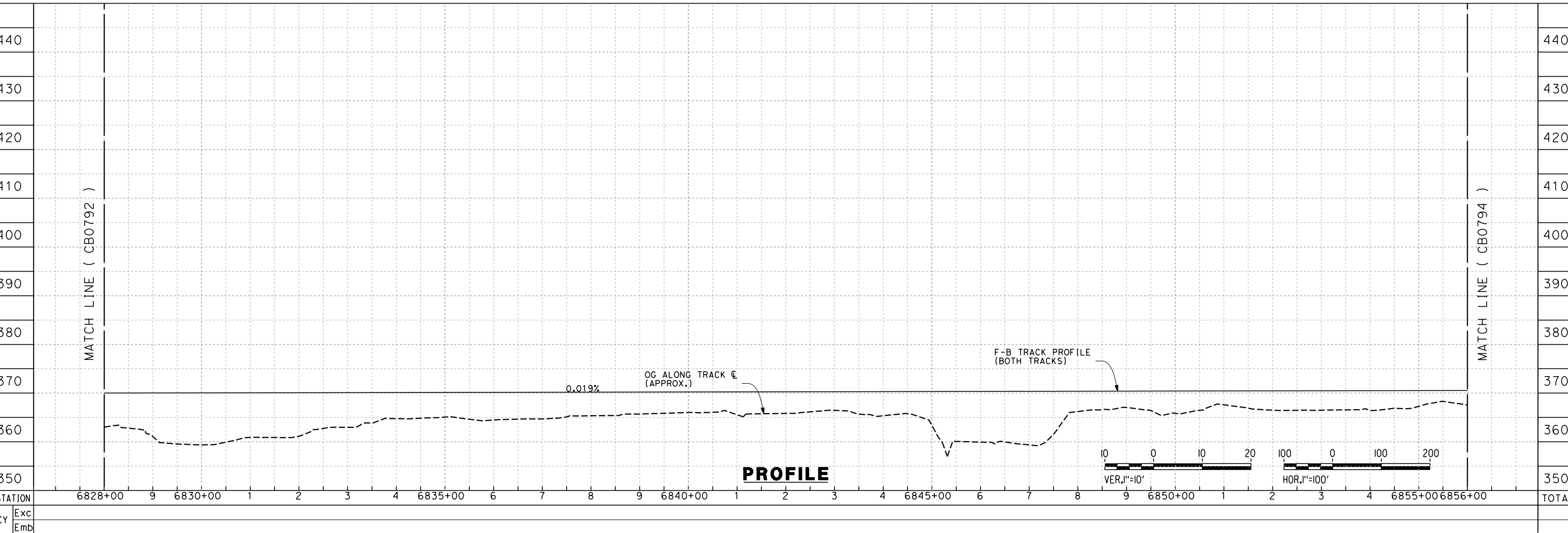
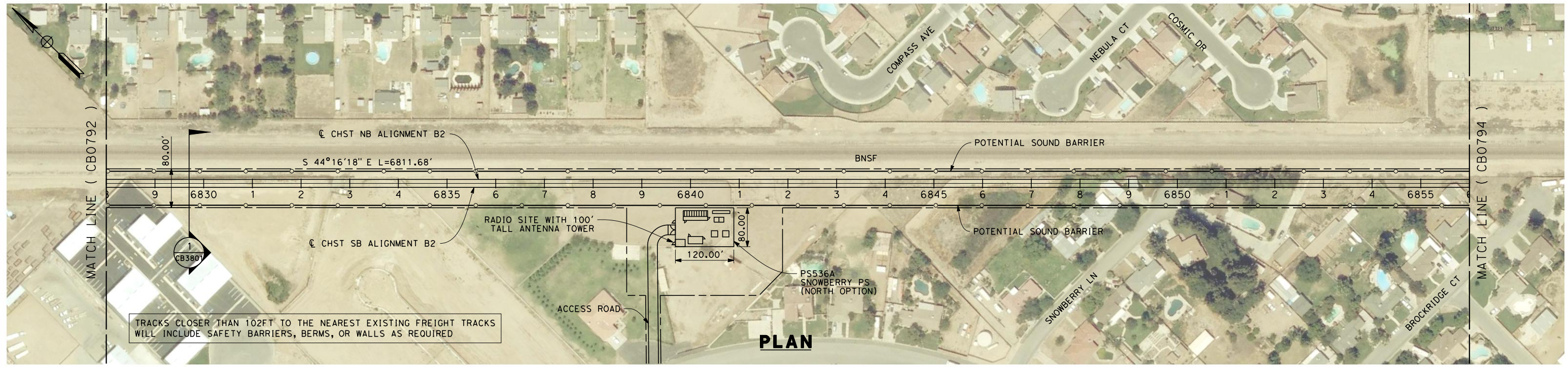
CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB0791  
 SCALE  
AS SHOWN  
 SHEET NO.  
1 OF 38







7/19/2011 3:59:17 PM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0793.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



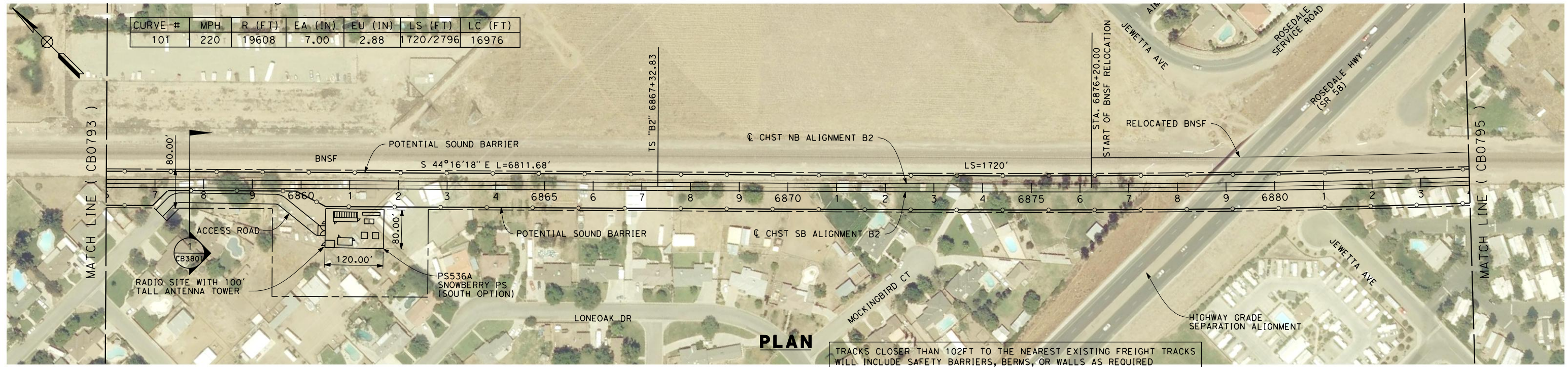
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
STA. 6828+00 TO 6856+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0793  
SCALE  
AS SHOWN  
SHEET NO.  
3 OF 38

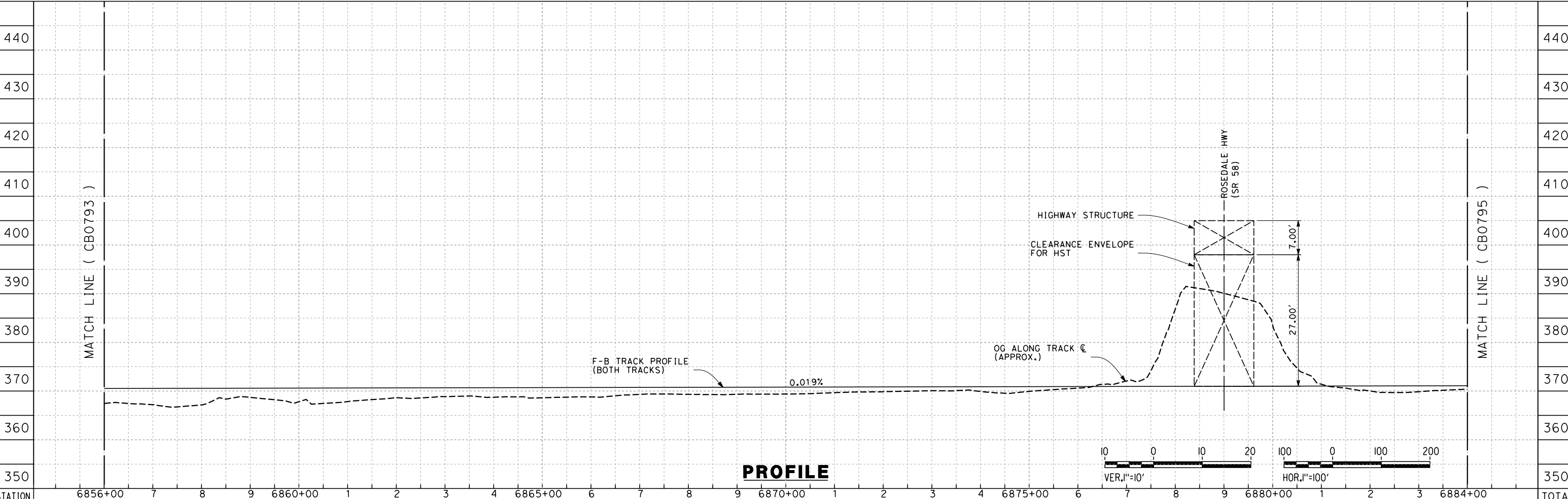


7/20/2011 4:50:53 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0794.dgn

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
101	220	19608	7.00	2.88	1720/2796	16976



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



**PROFILE**

STATION	6856+00	7	8	9	6860+00	1	2	3	4	6865+00	6	7	8	9	6870+00	1	2	3	4	6875+00	6	7	8	9	6880+00	1	2	3	6884+00	TOTAL
CY																														
	Exc																													
	Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

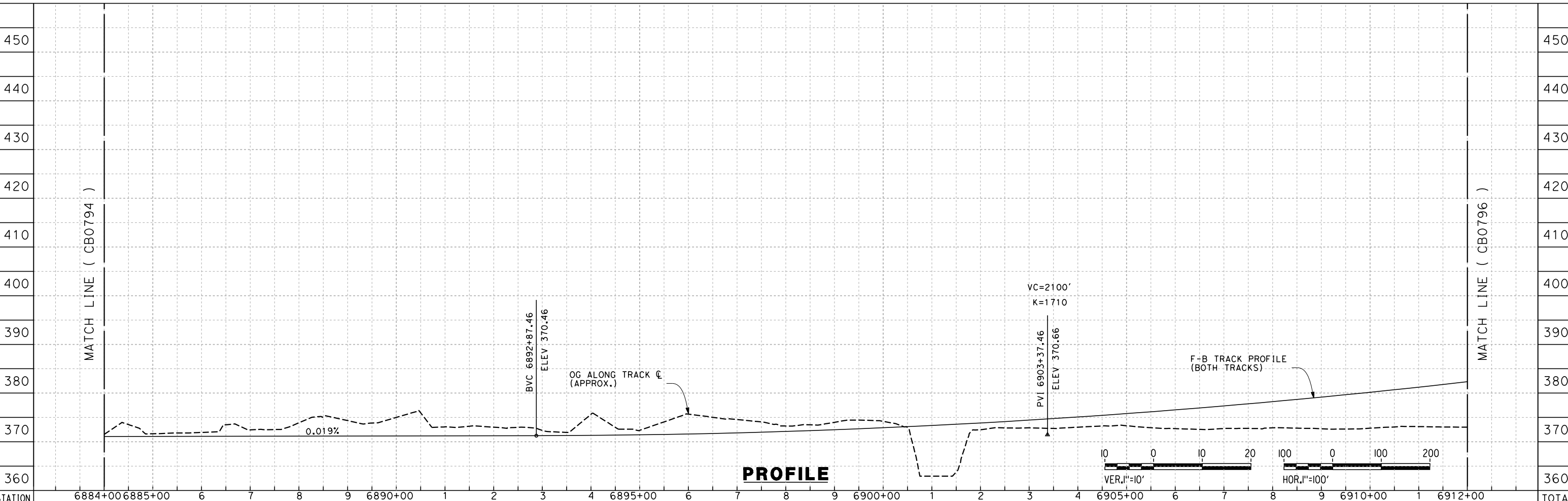
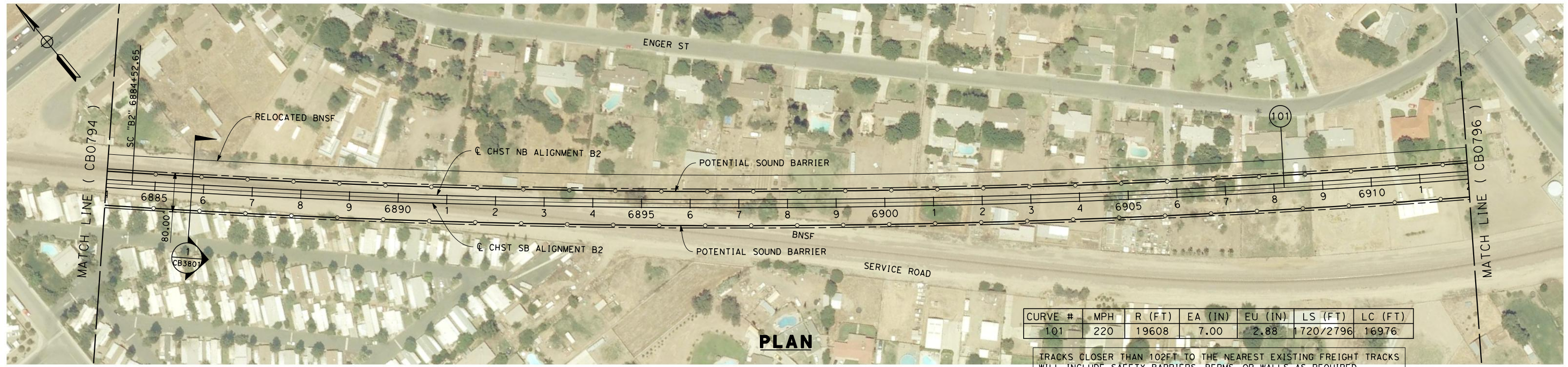


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
STA. 6856+00 TO 6884+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0794  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 38



7/19/2011 3:59:53 PM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0795.dgn



STATION	6884+00	6885+00	6	7	8	9	6890+00	1	2	3	4	6895+00	6	7	8	9	6900+00	1	2	3	4	6905+00	6	7	8	9	6910+00	1	6912+00	TOTAL
Exc																														
Emb																														

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



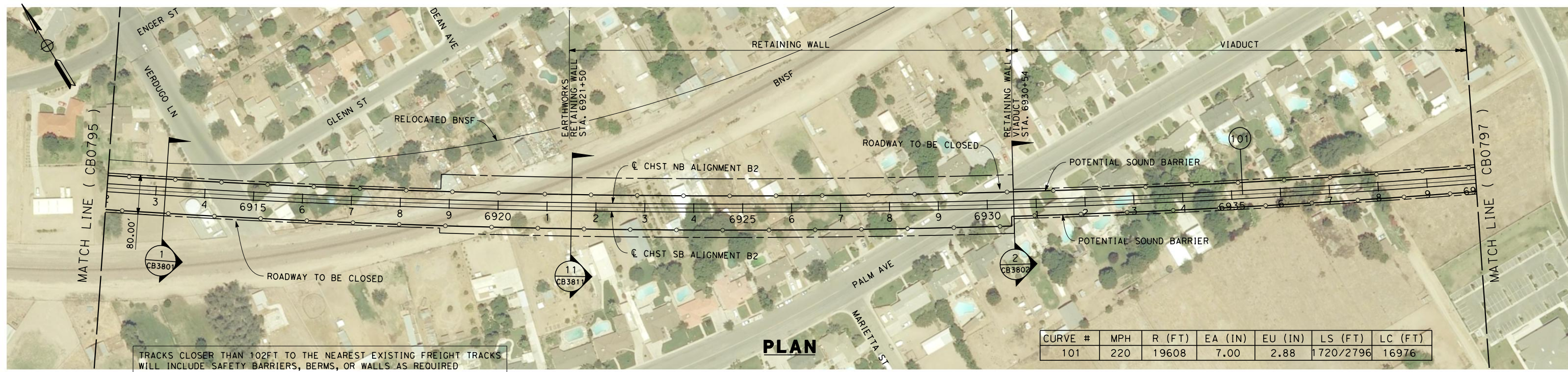
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
STA. 6884+00 TO 6912+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0795  
SCALE  
AS SHOWN  
SHEET NO.  
5 OF 38

REV	DATE	BY	CHK	APP	DESCRIPTION

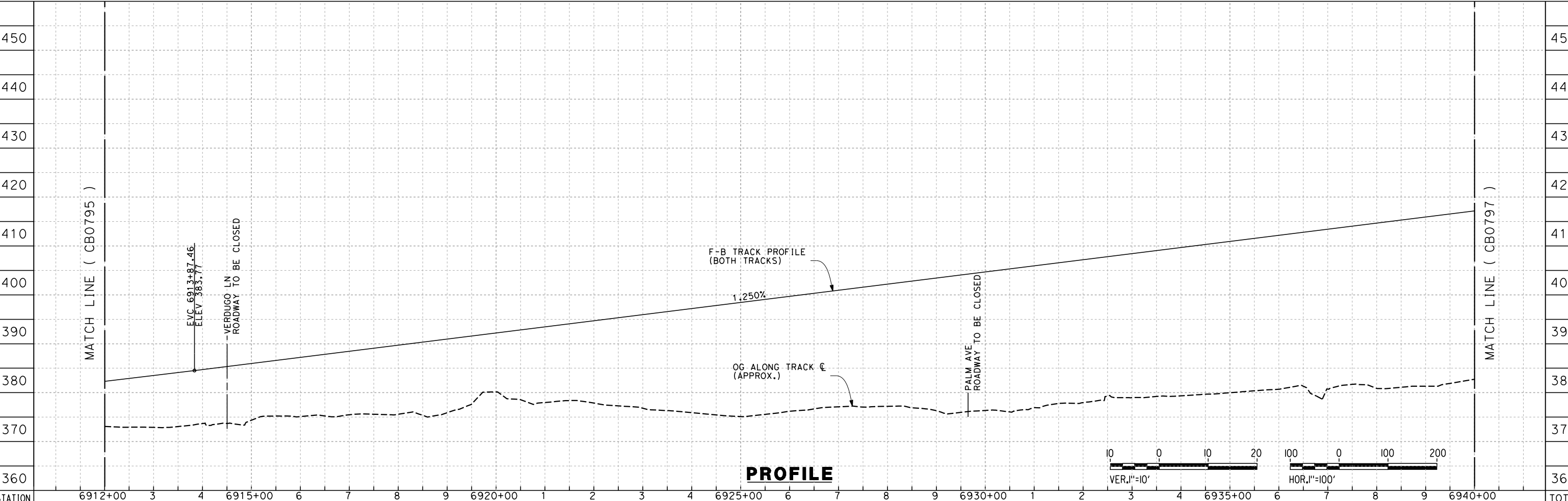


7/19/2011 4:00:08 PM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0796.dgn



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
101	220	19608	7.00	2.88	1720/2796	16976



STATION	Exc	Emb	TOTAL
6912+00			
3			
4			
6915+00			
6			
7			
8			
9			
6920+00			
1			
2			
3			
4			
6925+00			
6			
7			
8			
9			
6930+00			
1			
2			
3			
4			
6935+00			
6			
7			
8			
9			
6940+00			
TOTAL			

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
 DRAWN BY  
P. ROY  
 CHECKED BY  
P. TURCOTTE  
 IN CHARGE  
T. ROWORTH  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

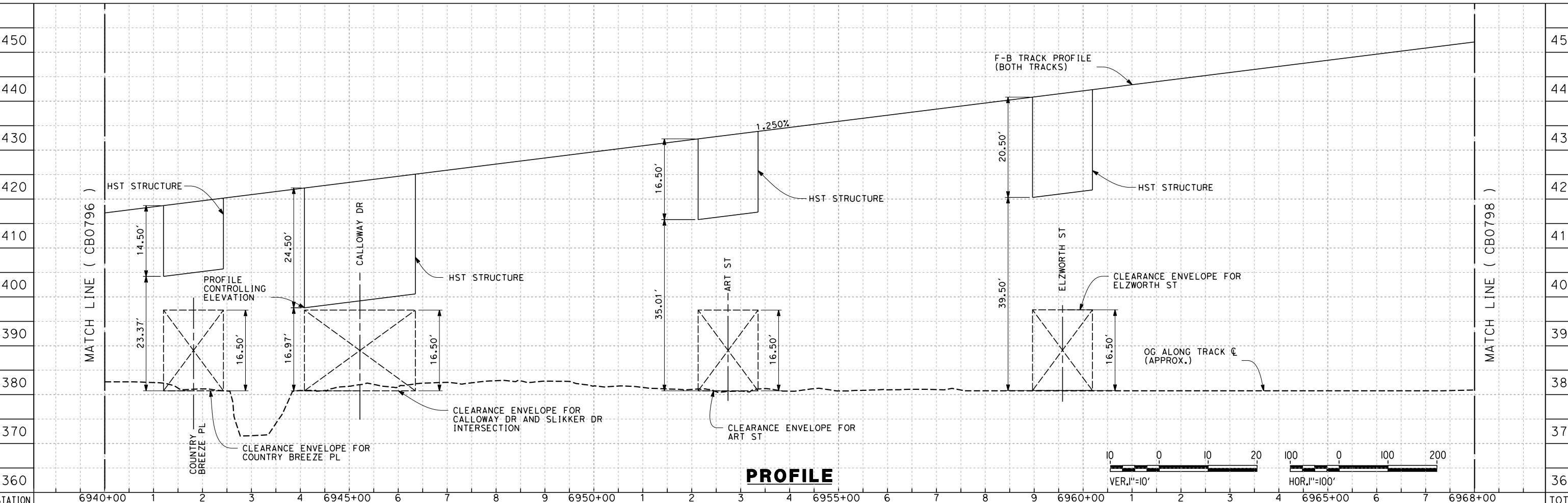


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B2  
 STA. 6912+00 TO 6940+00  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB0796  
 SCALE  
AS SHOWN  
 SHEET NO.  
6 OF 38



7/19/2011 4:00:23 PM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0797.dgn



STATION	Exc	Emb	TOTAL
6940+00			
6945+00			
6950+00			
6955+00			
6960+00			
6965+00			
6968+00			
TOTAL			

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
 DRAWN BY  
P. ROY  
 CHECKED BY  
P. TURCOTTE  
 IN CHARGE  
T. ROWORTH  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

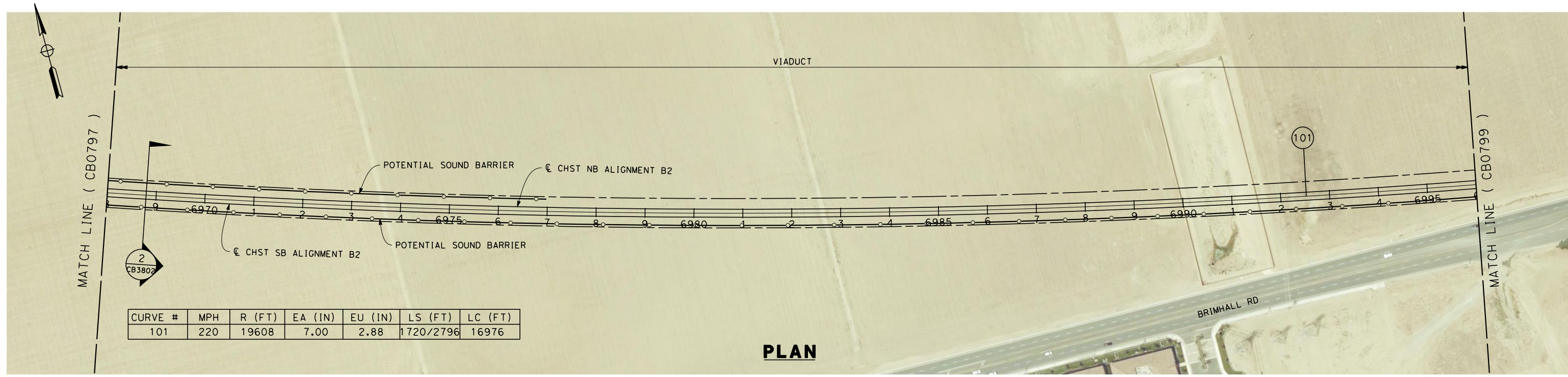


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B2  
 STA. 6940+00 TO 6968+00  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB0797  
 SCALE  
AS SHOWN  
 SHEET NO.  
7 OF 38

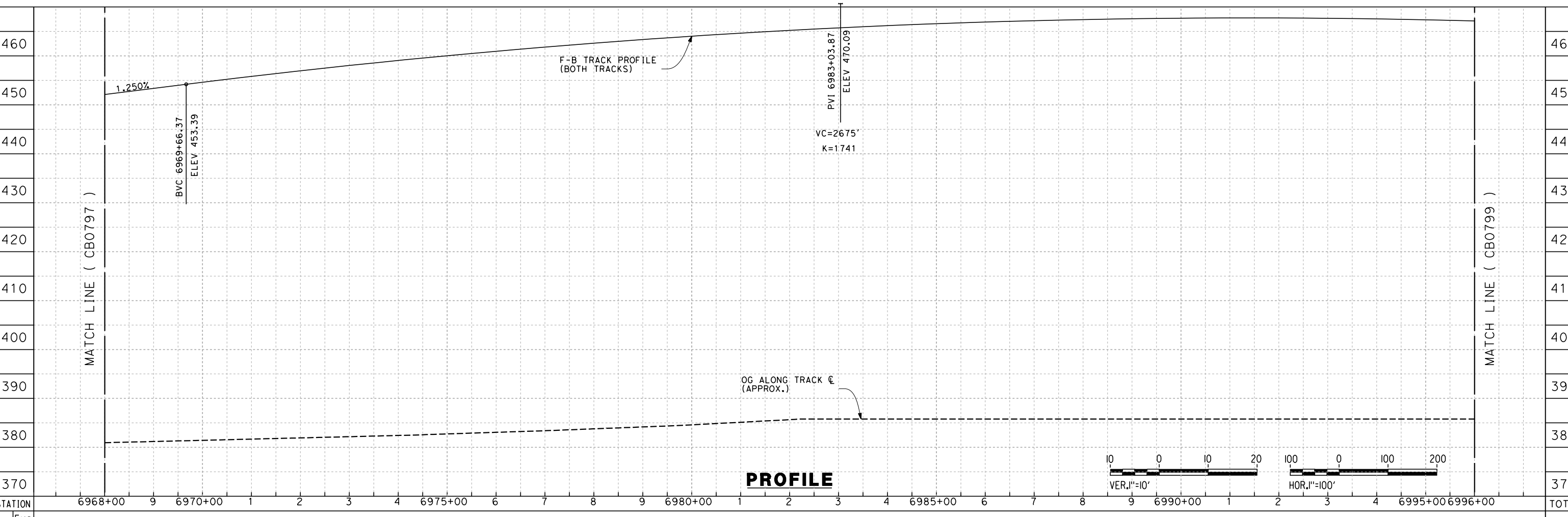


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CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
101	220	19608	7.00	2.88	1720/2796	16976

**PLAN**



**PROFILE**

STATION	6968+00	9	6970+00	1	2	3	4	6975+00	6	7	8	9	6980+00	1	2	3	4	6985+00	6	7	8	9	6990+00	1	2	3	4	6995+00	6996+00	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
STA. 6968+00 TO 6996+00  
PLAN AND PROFILE

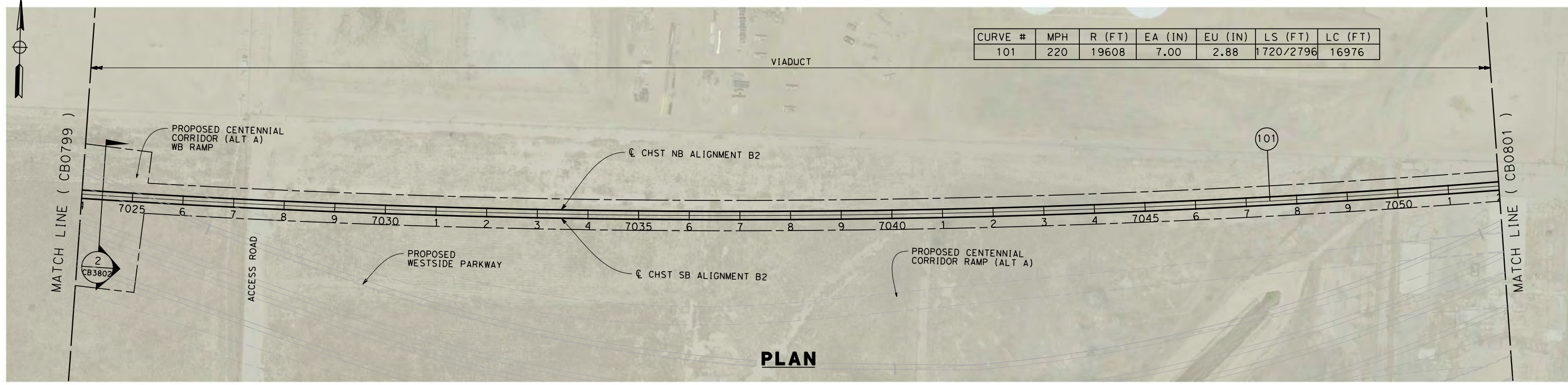
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0798  
SCALE  
AS SHOWN  
SHEET NO.  
8 OF 38



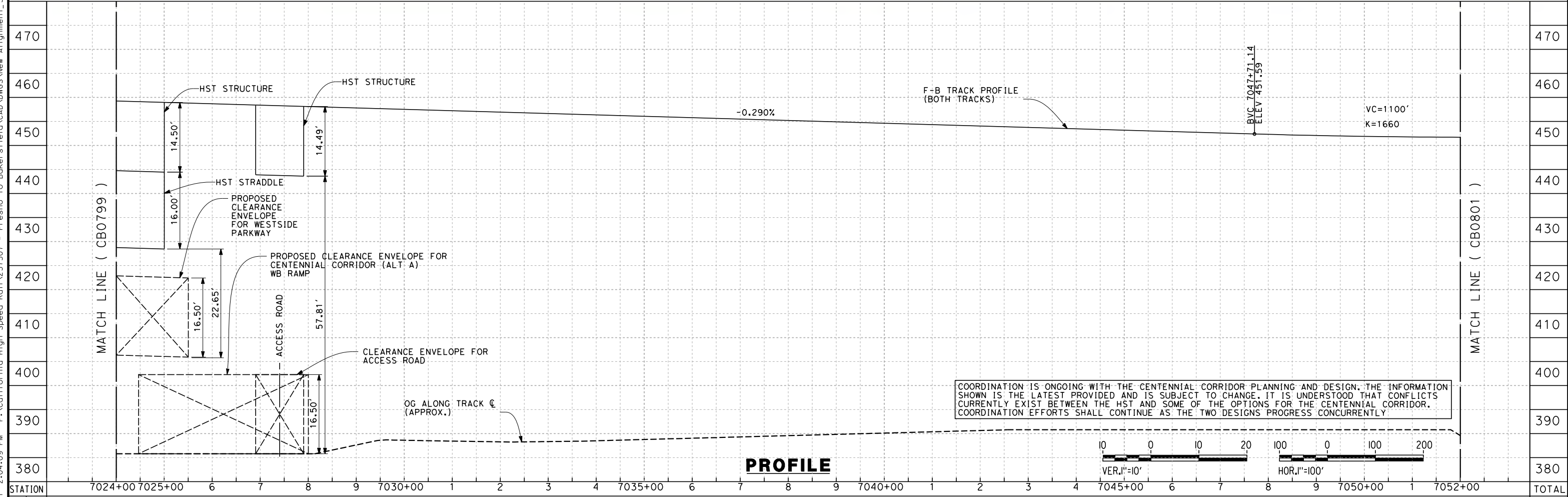




5/12/2011 2:04:09 PM P:\California High Speed Rail\237507 - Fresno to Bakersfield\CAD\DWG\New Alignment\_30%\_intern\DWG\FB-CB-0800.dgn roy55140



**PLAN**



**PROFILE**

STATION	7024+00	7025+00	6	7	8	9	7030+00	1	2	3	4	7035+00	6	7	8	9	7040+00	1	2	3	4	7045+00	6	7	8	9	7050+00	1	7052+00	TOTAL
CY	Exc																													
	Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

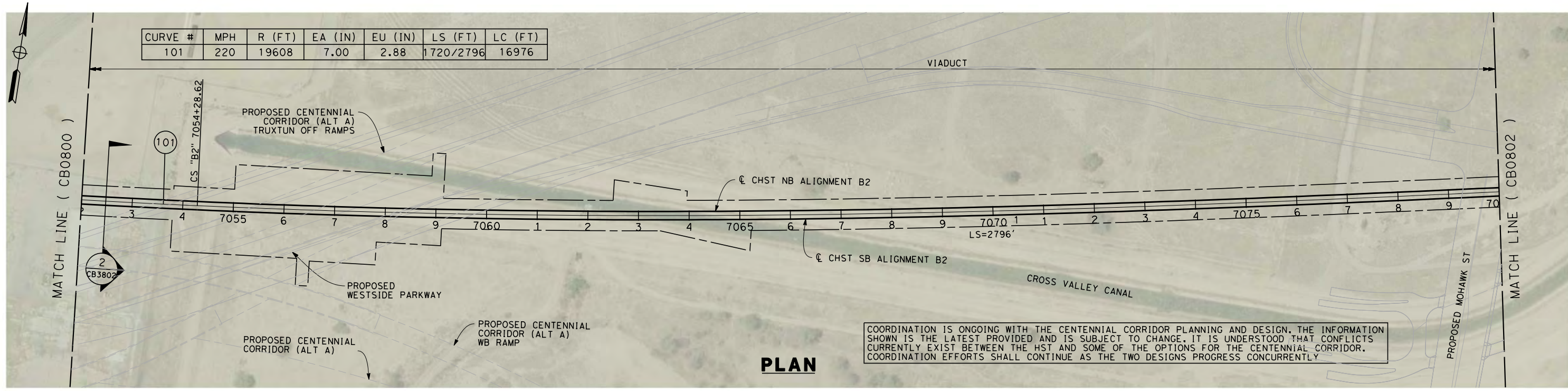


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
STA. 7024+00 TO 7052+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0800  
SCALE  
AS SHOWN  
SHEET NO.  
10 OF 38

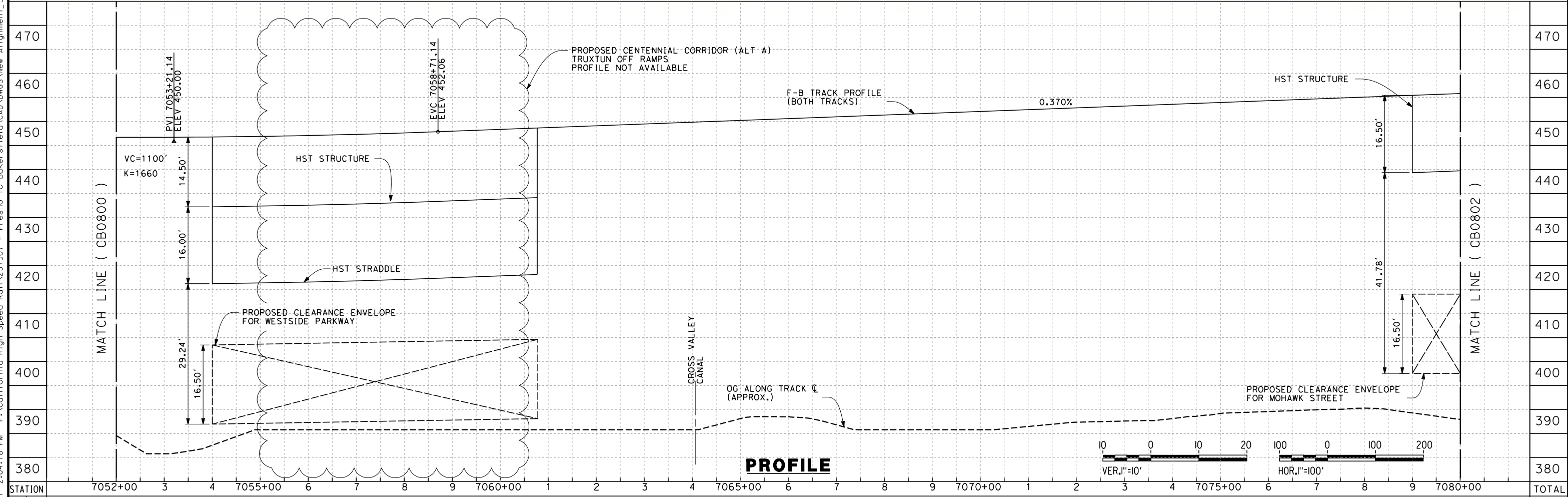


5/12/2011 2:04:18 PM P:\California High Speed Rail\237507 - Fresno to Bakersfield\CAD\DWGS\New Alignment\_302\intern\DWG\FB-CB-0801.dgn roy55140



COORDINATION IS ONGOING WITH THE CENTENNIAL CORRIDOR PLANNING AND DESIGN. THE INFORMATION SHOWN IS THE LATEST PROVIDED AND IS SUBJECT TO CHANGE. IT IS UNDERSTOOD THAT CONFLICTS CURRENTLY EXIST BETWEEN THE HST AND SOME OF THE OPTIONS FOR THE CENTENNIAL CORRIDOR. COORDINATION EFFORTS SHALL CONTINUE AS THE TWO DESIGNS PROGRESS CONCURRENTLY

**PLAN**



**PROFILE**

STATION	7052+00	3	4	7055+00	6	7	8	9	7060+00	1	2	3	4	7065+00	6	7	8	9	7070+00	1	2	3	4	7075+00	6	7	8	9	7080+00	TOTAL
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CY	Exc	Emb																												
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DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

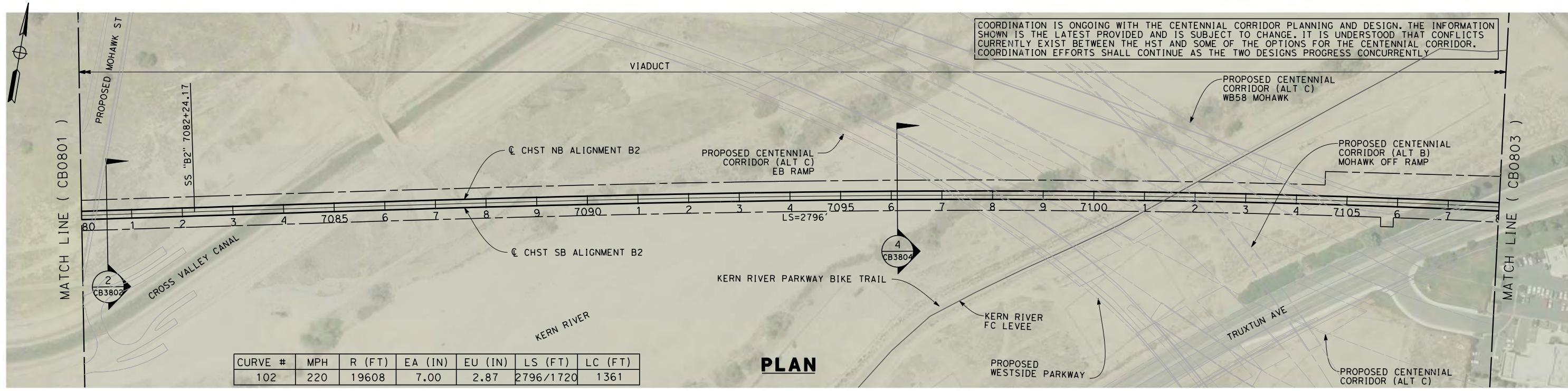


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
STA. 7052+00 TO 7080+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0801  
SCALE  
AS SHOWN  
SHEET NO.  
11 OF 38

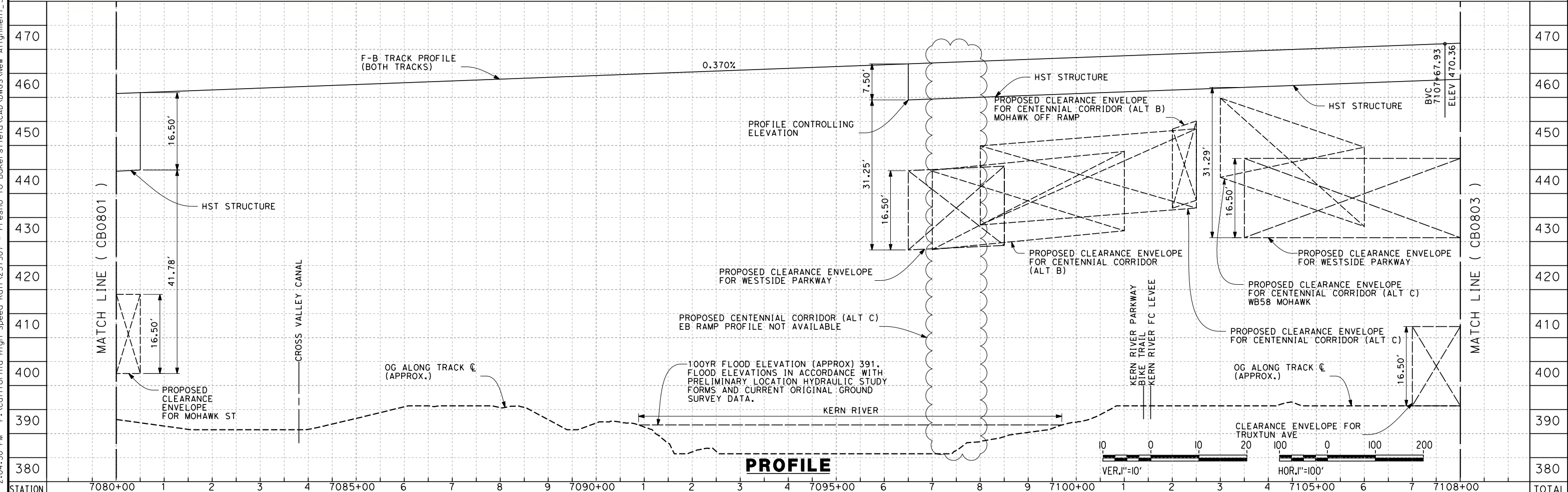


5/12/2011 2:04:30 PM P:\California High Speed Rail\237507 - Fresno to Bakersfield\CAD\DWG\New Alignment\_302.intern\DWG\FB-CB-0802.dgn roy55140



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
102	220	19608	7.00	2.87	2796/1720	1361

**PLAN**



**PROFILE**

STATION	7080+00	1	2	3	4	7085+00	6	7	8	9	7090+00	1	2	3	4	7095+00	6	7	8	9	7100+00	1	2	3	4	7105+00	6	7	7108+00	TOTAL	
CY	Exc																														
	Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

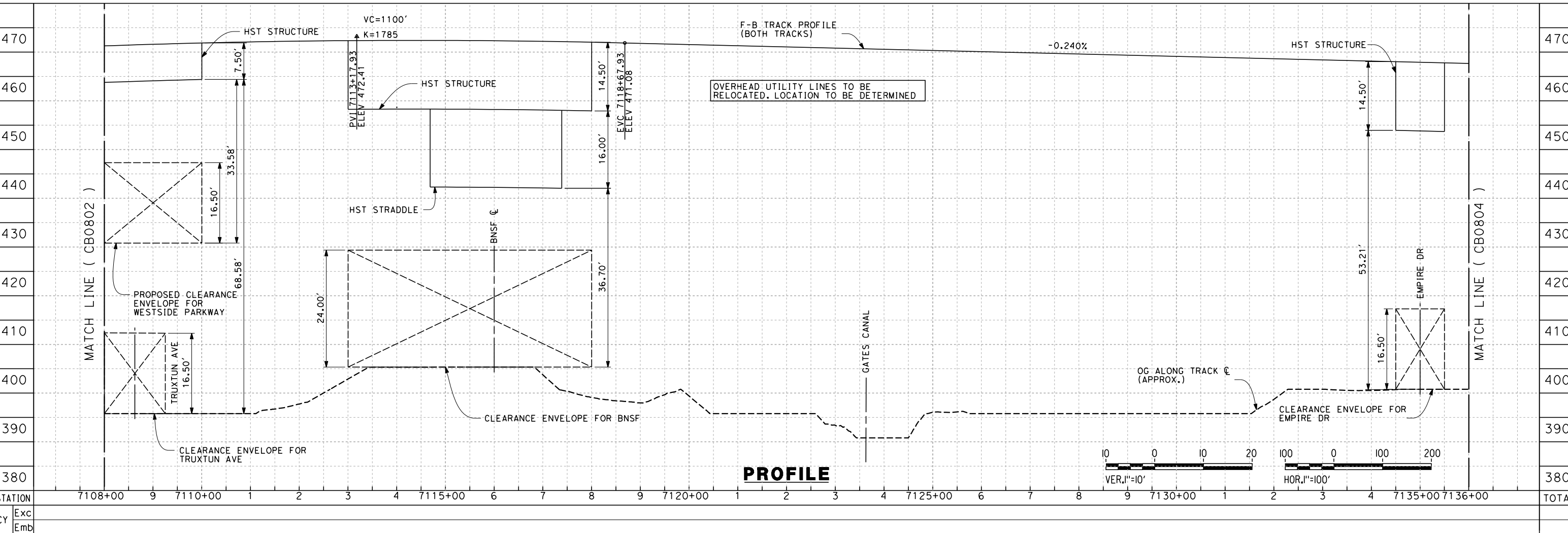
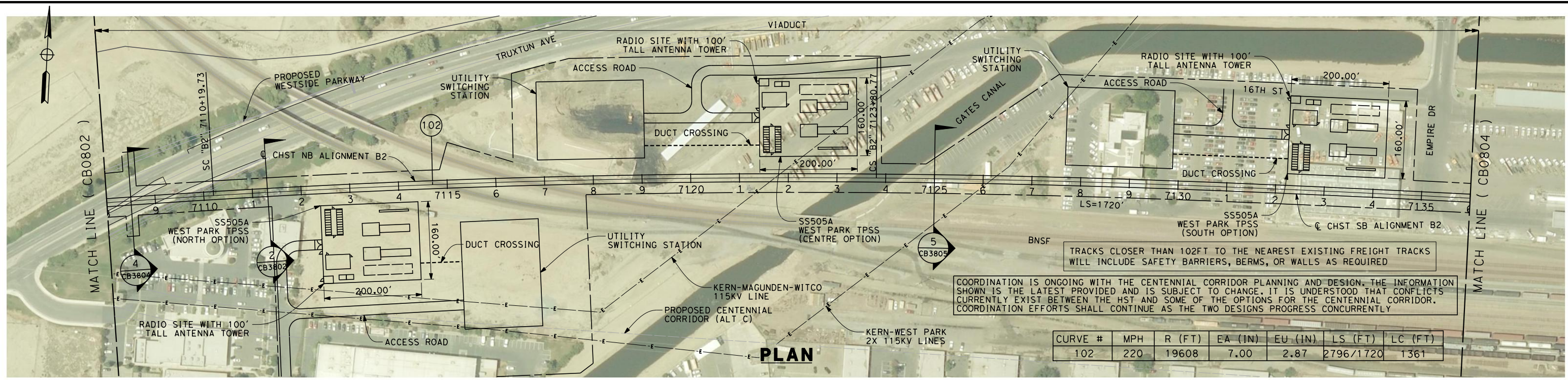


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
STA. 7080+00 TO 7108+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0802  
SCALE  
AS SHOWN  
SHEET NO.  
12 OF 38



7/19/2011 4:01:26 PM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0803.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
06/30/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

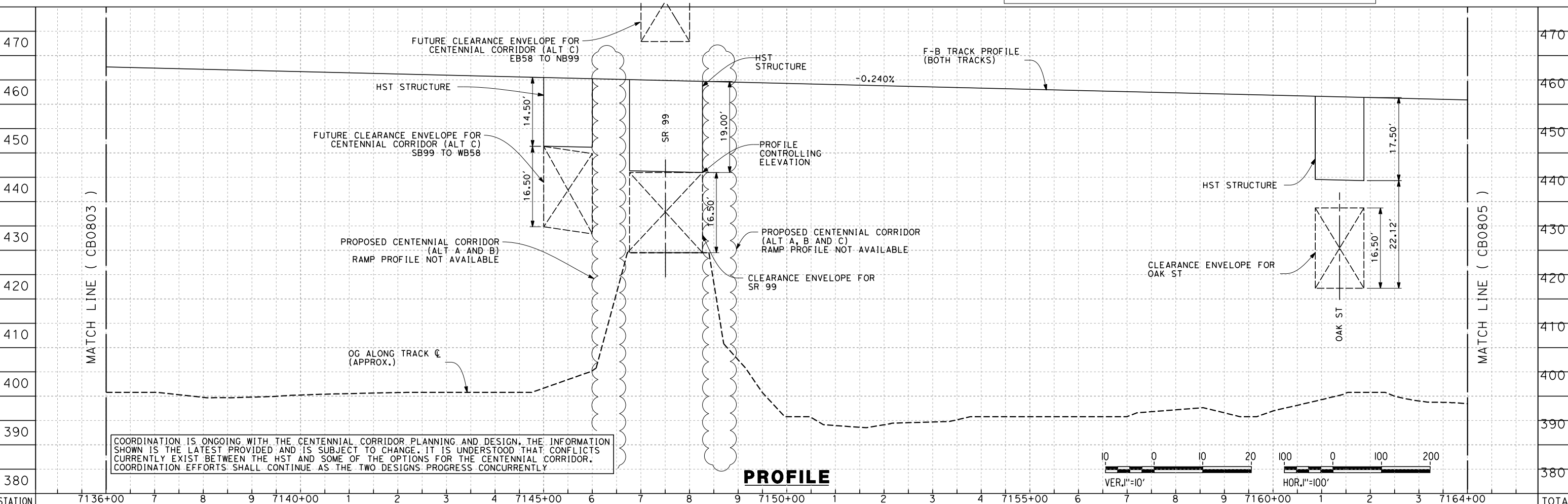
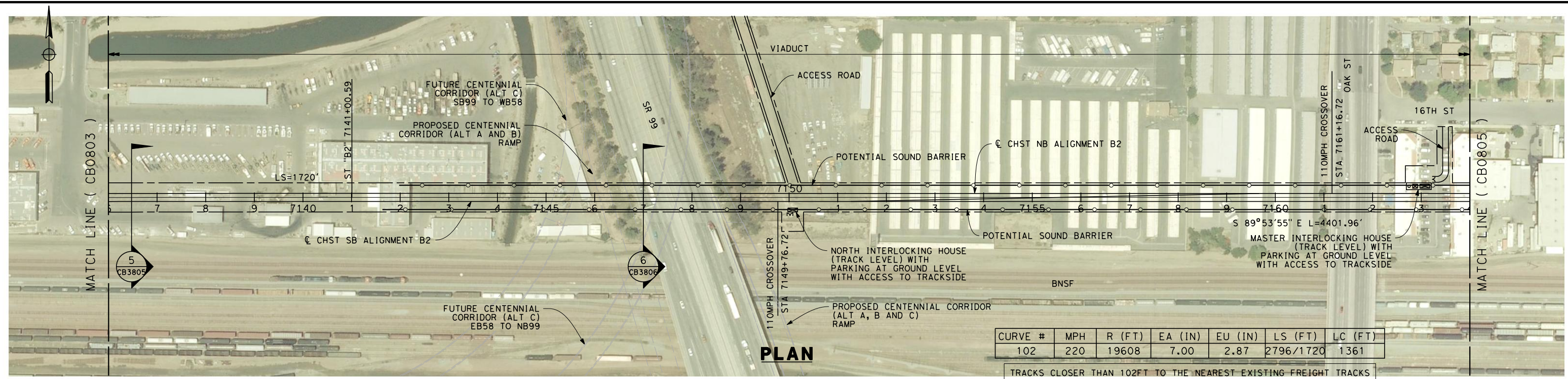


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
STA. 7108+00 TO 7136+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0803  
SCALE  
AS SHOWN  
SHEET NO.  
13 OF 38



7/19/2011 4:01:40 PM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0804.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



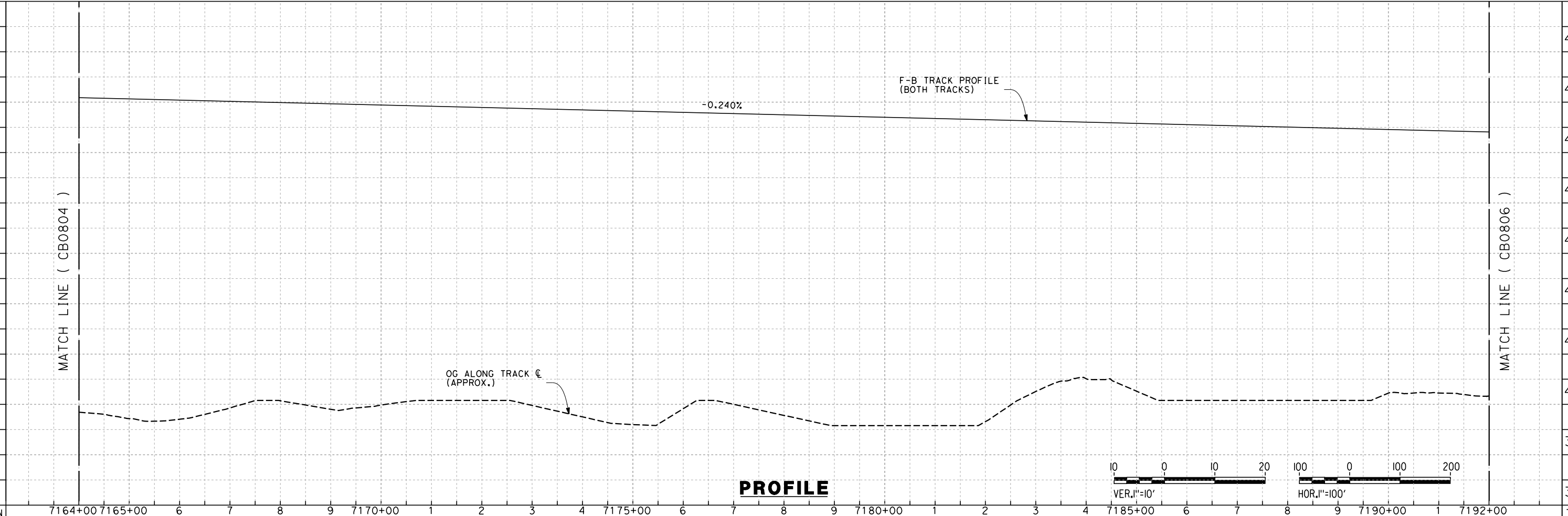
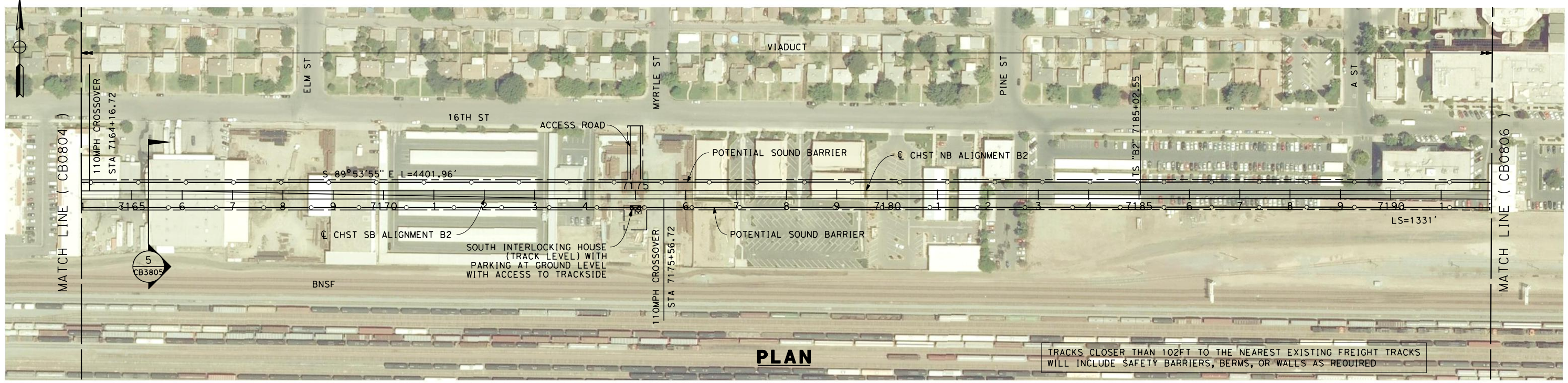
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
STA. 7136+00 TO 7164+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0804  
SCALE  
AS SHOWN  
SHEET NO.  
14 OF 38



7/20/2011 4:55:06 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0805.dgn



STATION	7164+00	7165+00	6	7	8	9	7170+00	1	2	3	4	7175+00	6	7	8	9	7180+00	1	2	3	4	7185+00	6	7	8	9	7190+00	1	7192+00	TOTAL
Exc																														
Emb																														

DESIGNED BY	E. NG
DRAWN BY	P. ROY
CHECKED BY	P. TURCOTTE
IN CHARGE	T. ROWORTH
DATE	05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

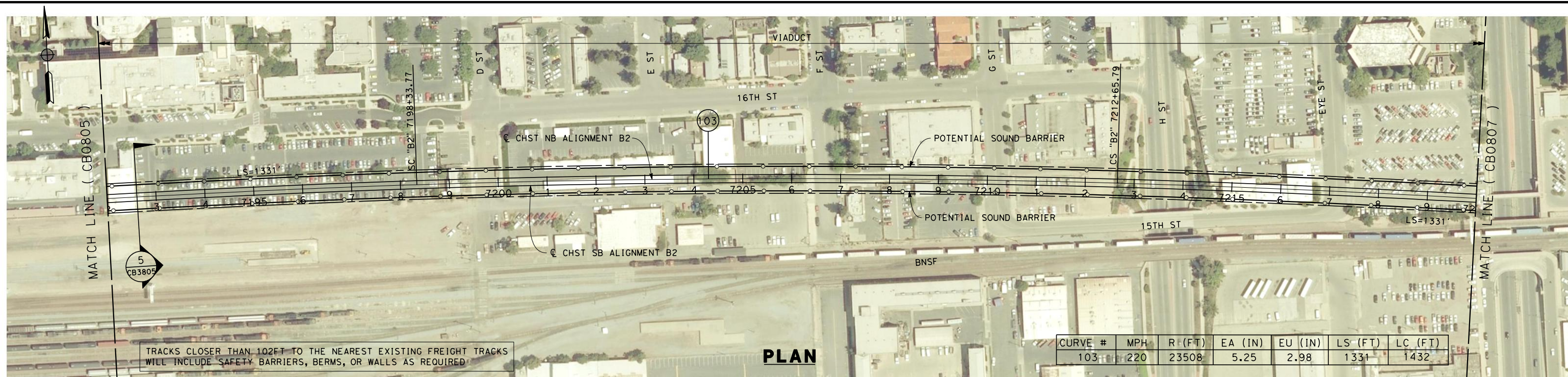


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B2  
 STA. 7164+00 TO 7192+00  
 PLAN AND PROFILE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CB0805
SCALE	AS SHOWN
SHEET NO.	15 OF 38

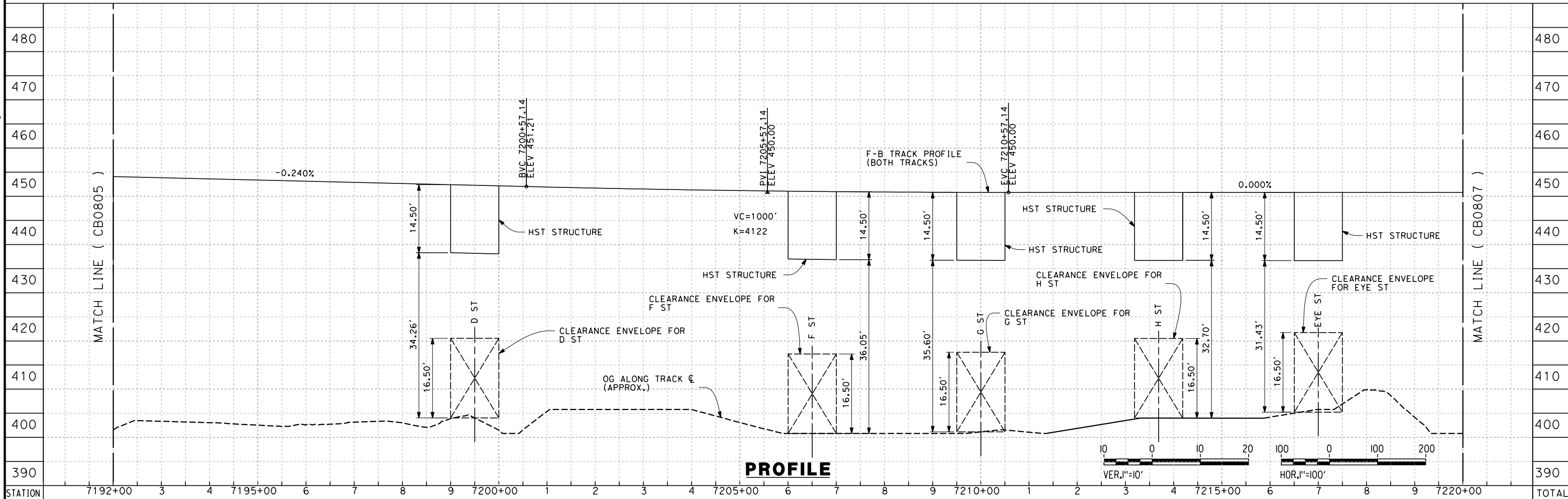


7/19/2011 4:02:53 PM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0806.dgn



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

**PLAN**



**PROFILE**

STATION	7192+00	3	4	7195+00	6	7	8	9	7200+00	1	2	3	4	7205+00	6	7	8	9	7210+00	1	2	3	4	7215+00	6	7	8	9	7220+00	TOTAL
CY																														
	Exc																													
	Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

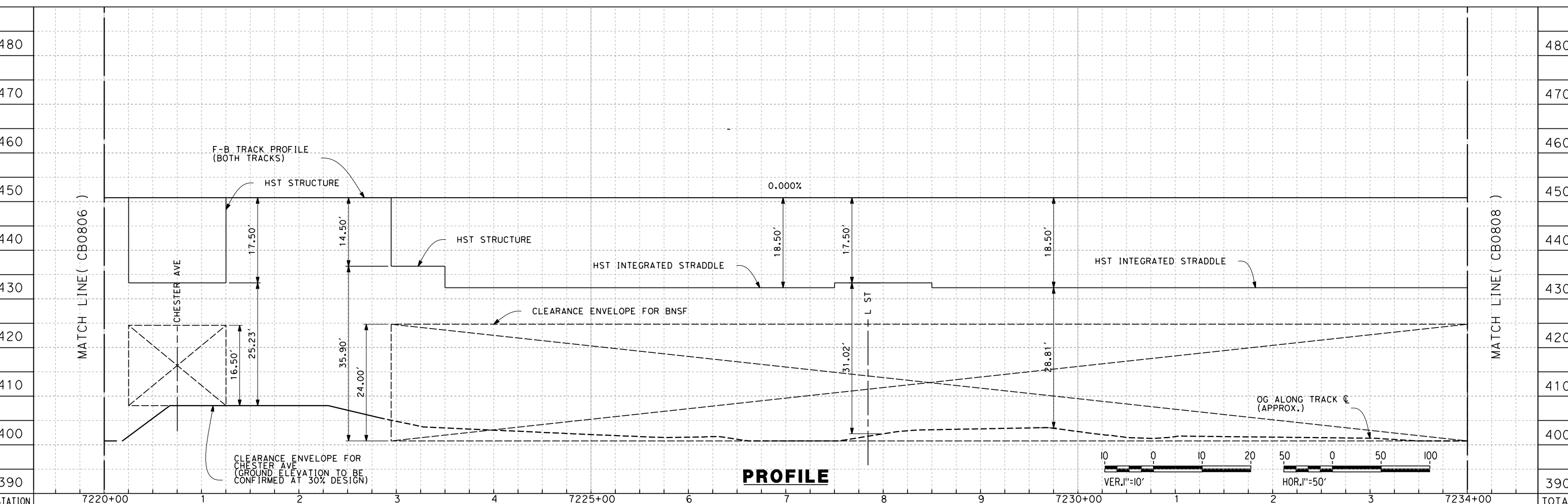
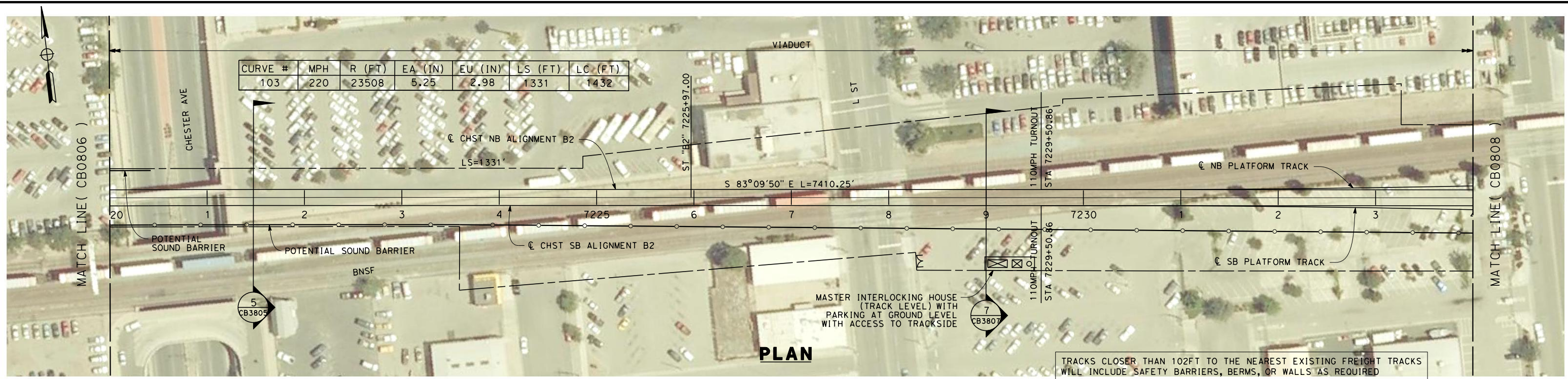


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
STA. 7192+00 TO 7220+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0806  
SCALE  
AS SHOWN  
SHEET NO.  
16 OF 38



7/20/2011 4:57:38 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0807.dgn



STATION	7220+00	1	2	3	4	7225+00	6	7	8	9	7230+00	1	2	3	7234+00	TOTAL
CY	Exc															
	Emb															

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



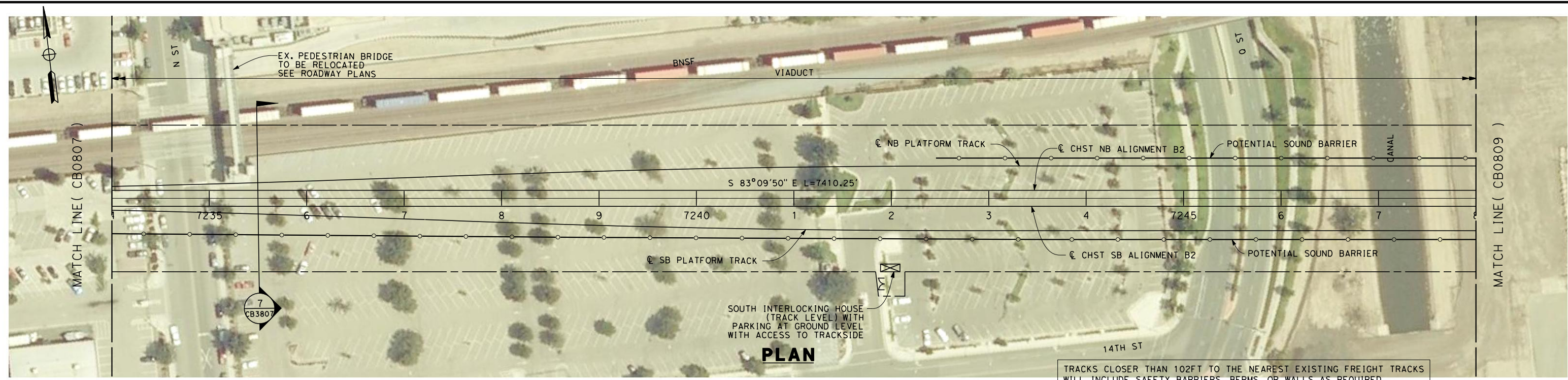
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
STA. 7220+00 TO 7234+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0807  
SCALE  
AS SHOWN  
SHEET NO.  
17 OF 38

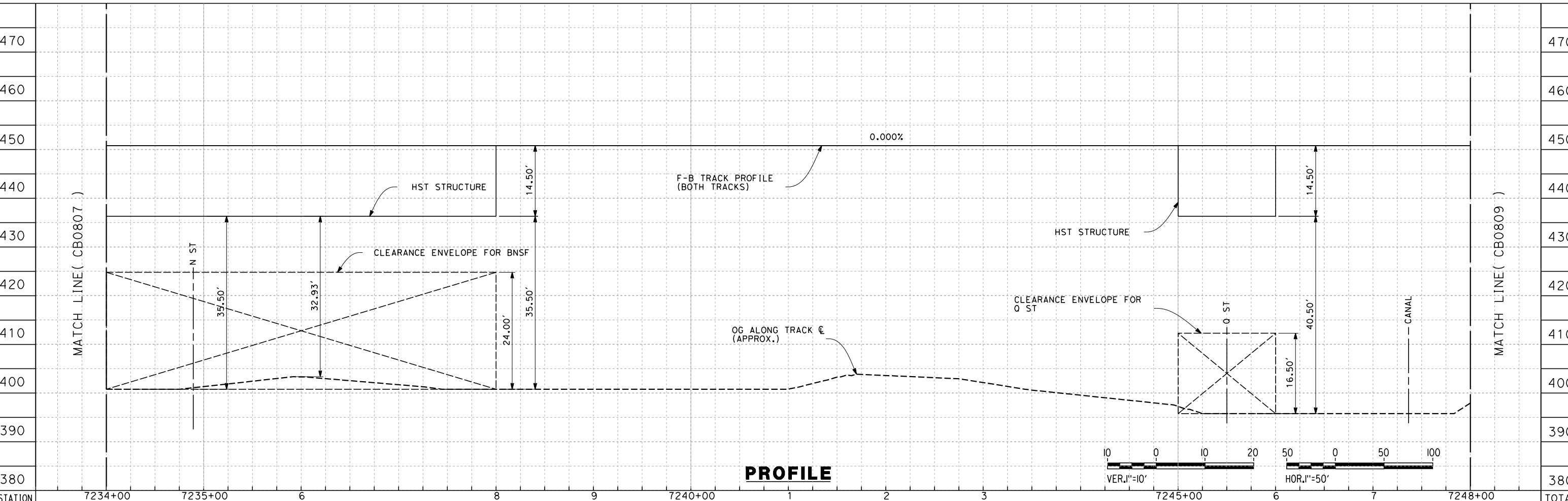
REV	DATE	BY	CHK	APP	DESCRIPTION



7/20/2011 5:00:23 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0808.dgn



TRACKS CLOSER THAN 102FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



STATION	7234+00	7235+00	6	8	9	7240+00	1	2	3	7245+00	6	7	7248+00	TOTAL
Exc														
Emb														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
 DRAWN BY  
P. ROY  
 CHECKED BY  
P. TURCOTTE  
 IN CHARGE  
T. RORWORTH  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**

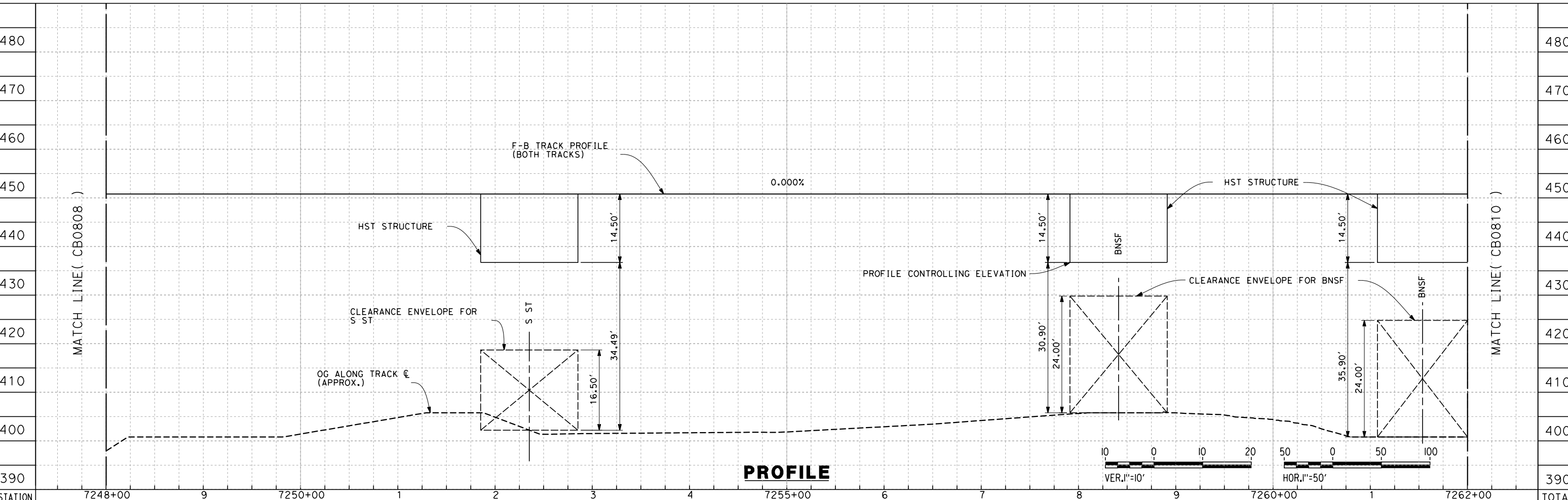
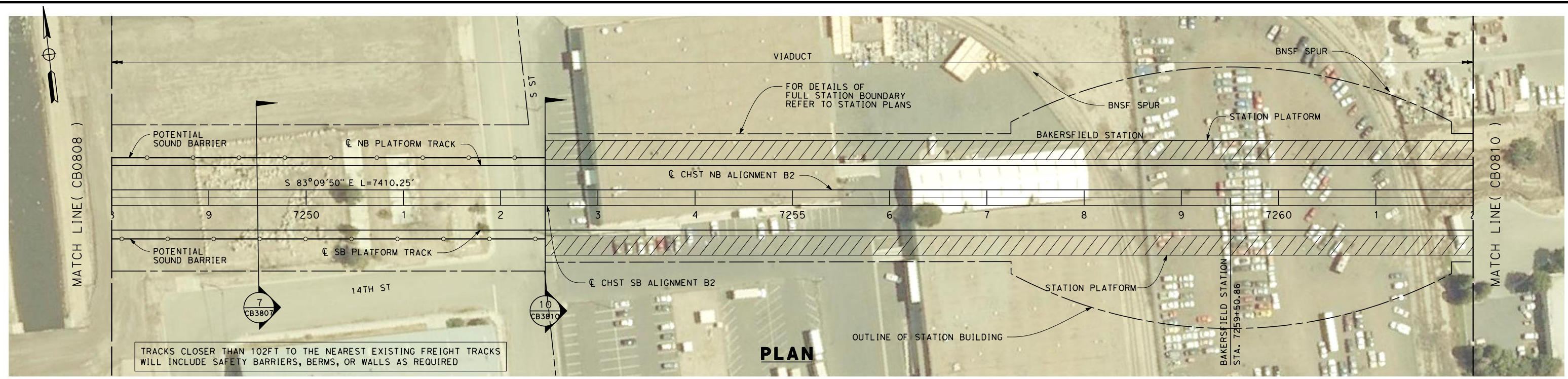


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B2  
 STA. 7234+00 TO 7248+00  
 PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB0808  
 SCALE  
AS SHOWN  
 SHEET NO.  
18 OF 38



7/20/2011 5:01:35 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0809.dgn

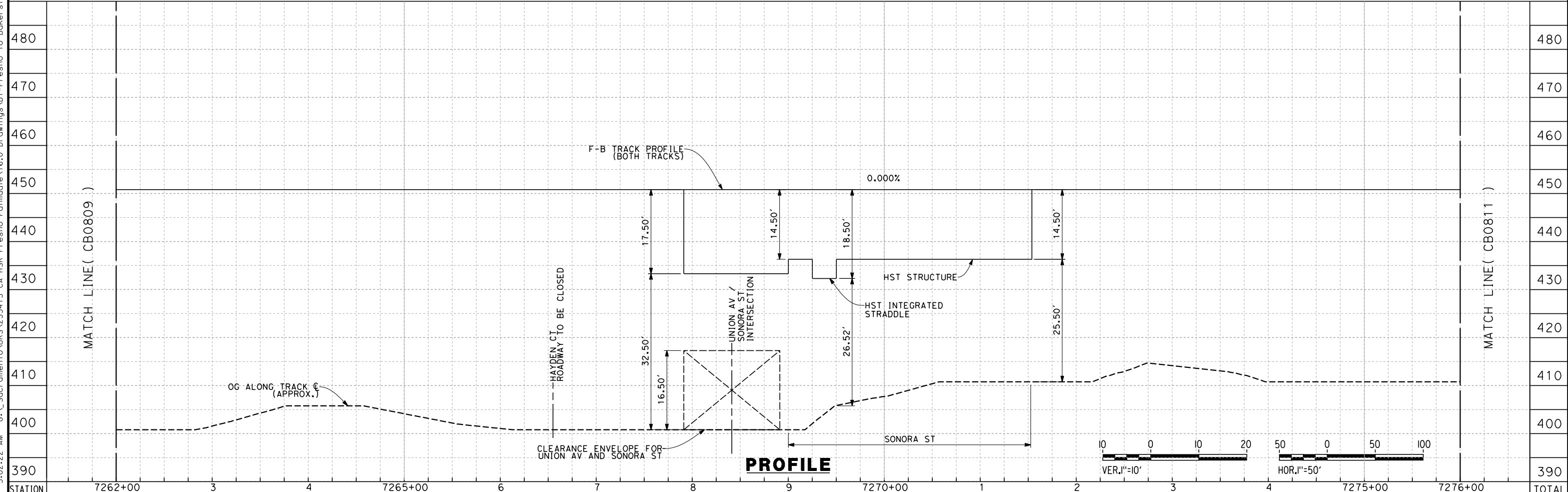
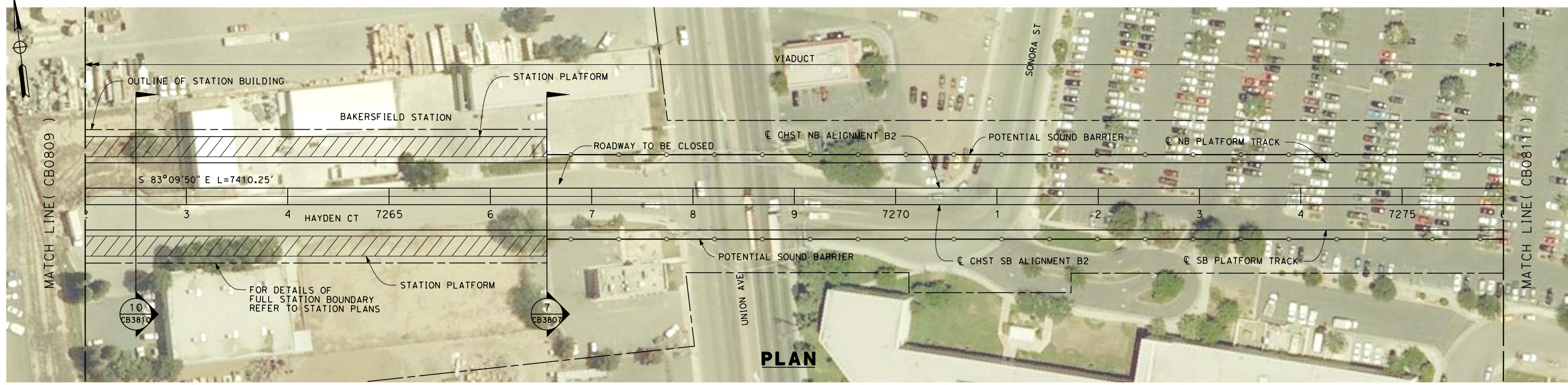


DESIGNED BY E. NG	<b>RECORD SET 15% DESIGN SUBMISSION</b>  <b>NOT FOR CONSTRUCTION</b>			<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD</b> BAKERSFIELD URBAN SUBSECTION ALIGNMENT B2 STA. 7248+00 TO 7262+00 PLAN AND PROFILE	CONTRACT NO. HSR 06-0003
DRAWN BY P. ROY					DRAWING NO. CB0809
CHECKED BY P. TURCOTTE					SCALE AS SHOWN
IN CHARGE T. ROWORTH					SHEET NO. 19 OF 38
DATE 05/13/11					

REV	DATE	BY	CHK	APP	DESCRIPTION



7/20/2011 5:02:22 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0810.dgn



STATION	7262+00	3	4	7265+00	6	7	8	9	7270+00	1	2	3	4	7275+00	7276+00	TOTAL
Exc																
Emb																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
STA. 7262+00 TO 7276+00  
PLAN AND PROFILE

CONTRACT NO.  
HSR 06-0003

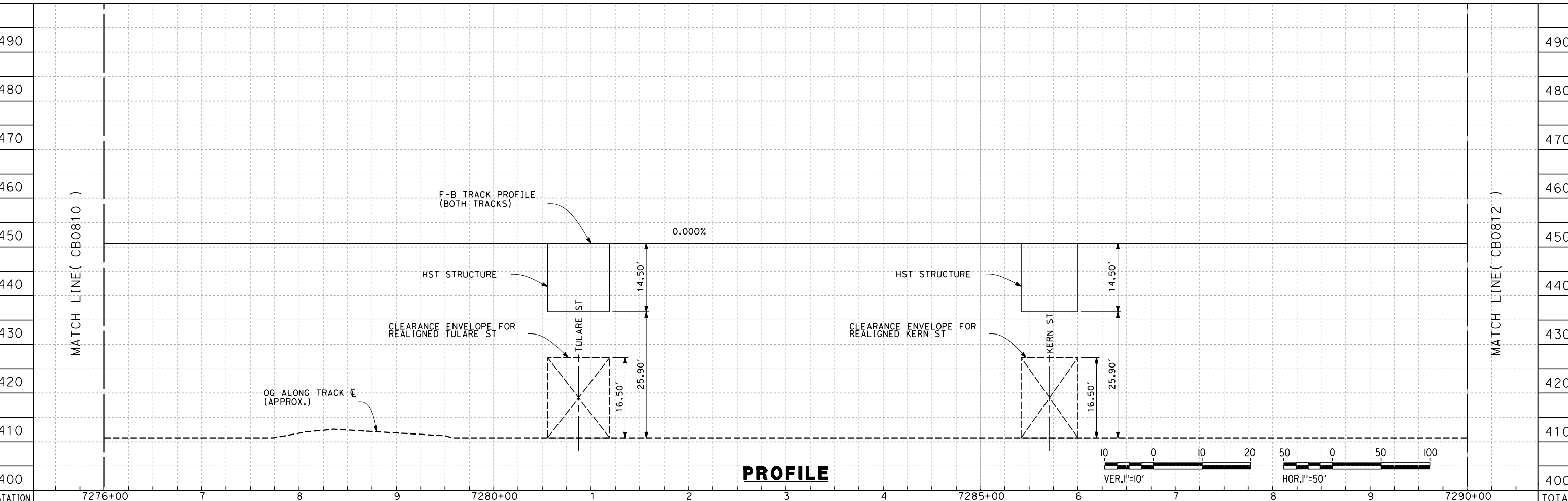
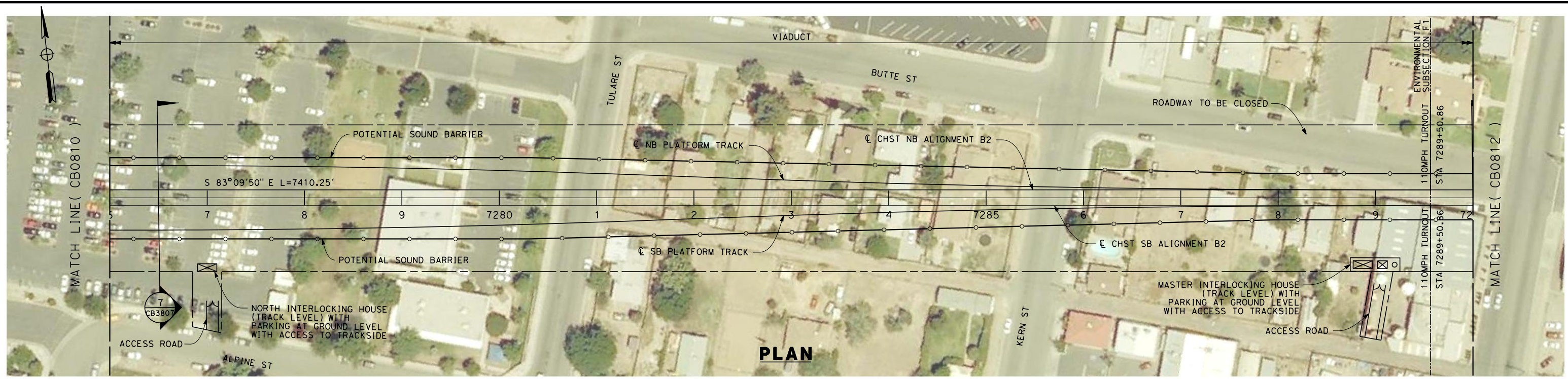
DRAWING NO.  
CB0810

SCALE  
AS SHOWN

SHEET NO.  
20 OF 38



7/20/2011 5:03:10 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-0811.dgn



STATION	7276+00	7	8	9	7280+00	1	2	3	4	7285+00	6	7	8	9	7290+00	TOTAL
Exc																
Emb																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
 DRAWN BY  
P. ROY  
 CHECKED BY  
P. TURCOTTE  
 IN CHARGE  
T. ROWORTH  
 DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B2  
 STA. 7276+00 TO 7290+00  
 PLAN AND PROFILE

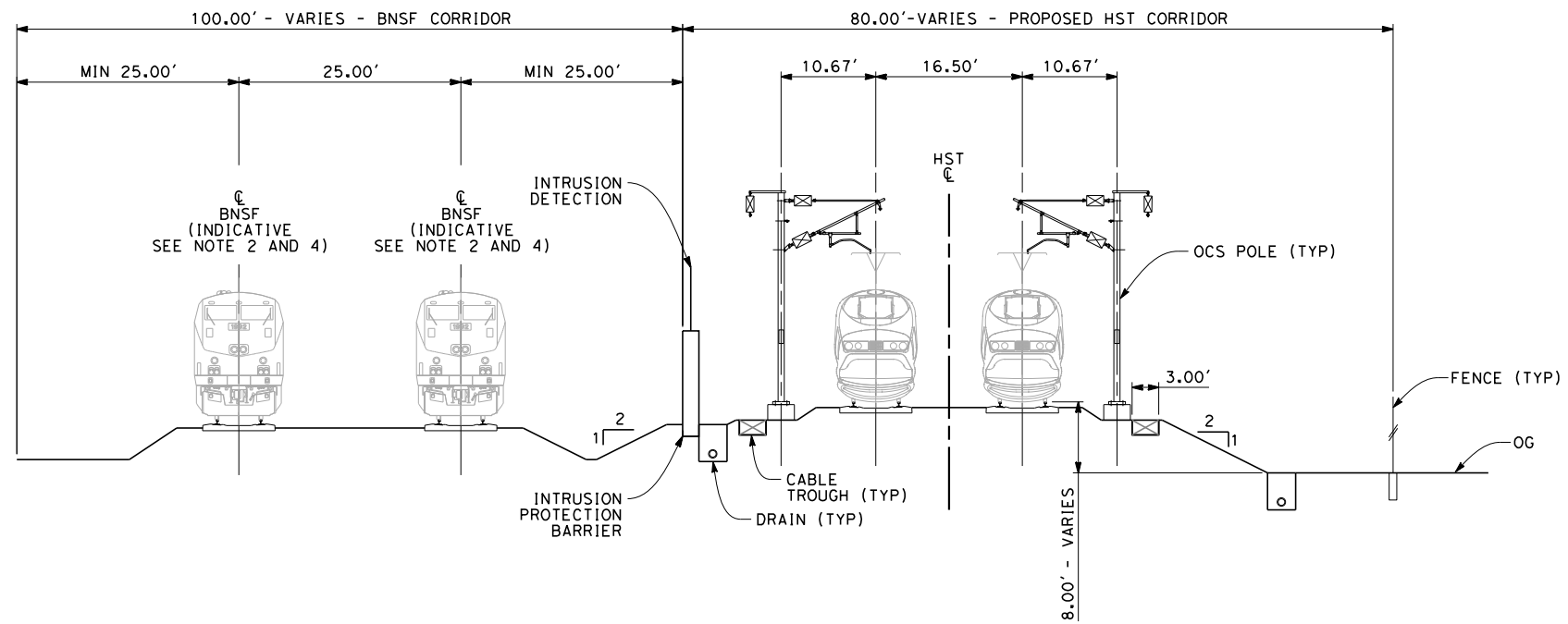
CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB0811  
 SCALE  
AS SHOWN  
 SHEET NO.  
21 OF 38



7/22/2011 2:51:46 PM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3801.dgn

**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. BNSF RELOCATED BEYOND STATION 6876+20.
3. SUPERELEVATION IS NOT SHOWN, THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
4. INDICATIVE BNSF RELOCATION SHOWS MINIMUM OFFSET TO BE PROVIDED TO HST CORRIDOR WHERE APPLICABLE. DETAILS TO BE CONFIRMED FOLLOWING DETAILED SURVEYS.
5. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 1**

HST AT GRADE LOOKING SOUTHBOUND  
STATIONS 6799+21.15 TO 6921+50



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
CROSS SECTIONS

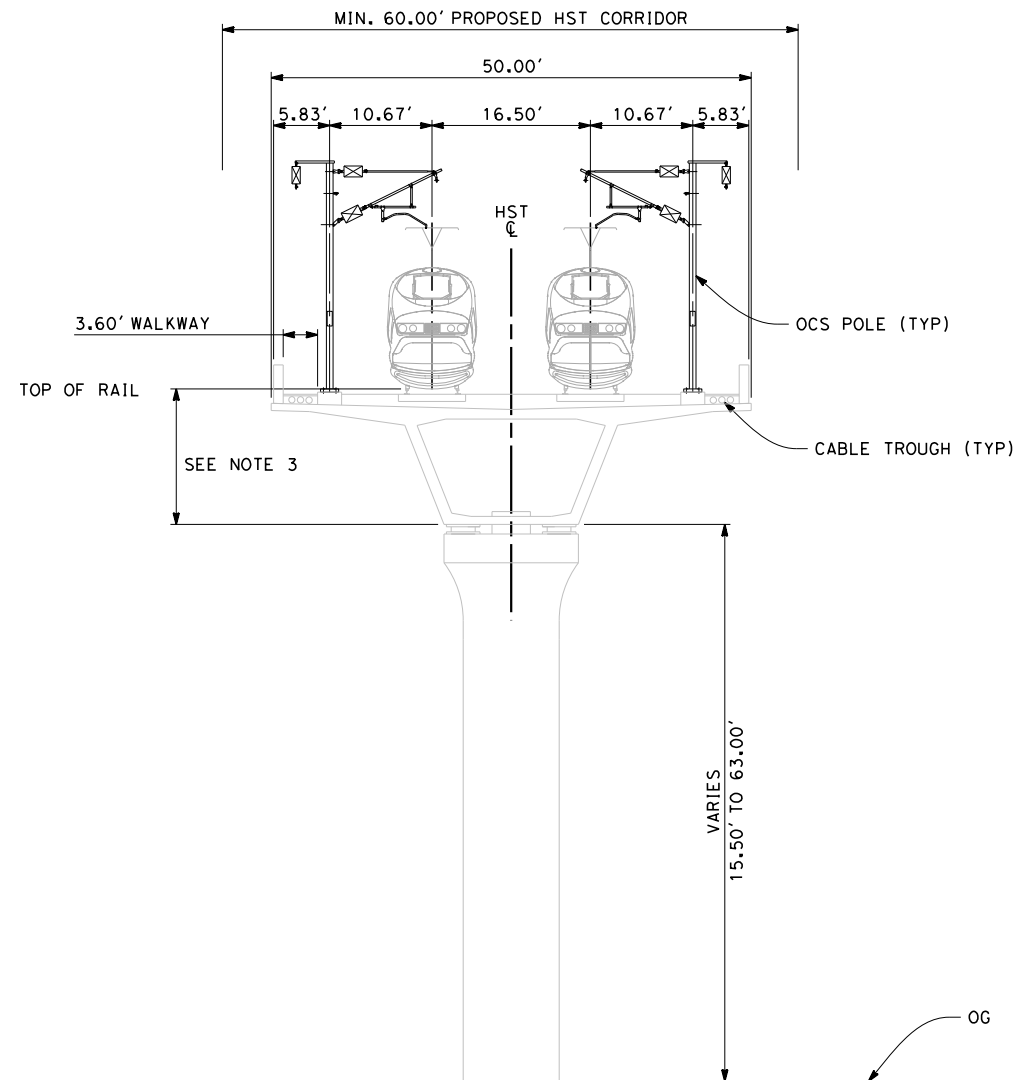
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB3801  
SCALE  
AS SHOWN  
SHEET NO.  
28 OF 38



7/20/2011 5:18:39 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3802.dgn

**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
3. DEPTH OF VIADUCT STRUCTURE VARIES FROM 14.50' TO 24.50' FOR INDICATED STATION RANGE.
4. SINGLE PIER STRUCTURE SHOWN FOR GENERAL PURPOSES. STRADDLE BENT/OUTRIGGER STRUCTURES ARE PRESENT WITHIN INDICATED STATION RANGE. PLEASE REFER TO STRUCTURAL DRAWINGS.
5. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
6. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 2**

TWIN TRACK AERIAL STRUCTURE LOOKING SOUTHBOUND  
 STATIONS 6930+54 TO 7096+12  
 STATIONS 7111+31 TO 7125+00  
 STATIONS 7290+00 TO 7340+00  
 STATIONS 7380+00 TO 7418+00



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
 DRAWN BY  
P. ROY  
 CHECKED BY  
P. TURCOTTE  
 IN CHARGE  
T. ROWORTH  
 DATE  
05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION  
 NOT FOR  
 CONSTRUCTION**



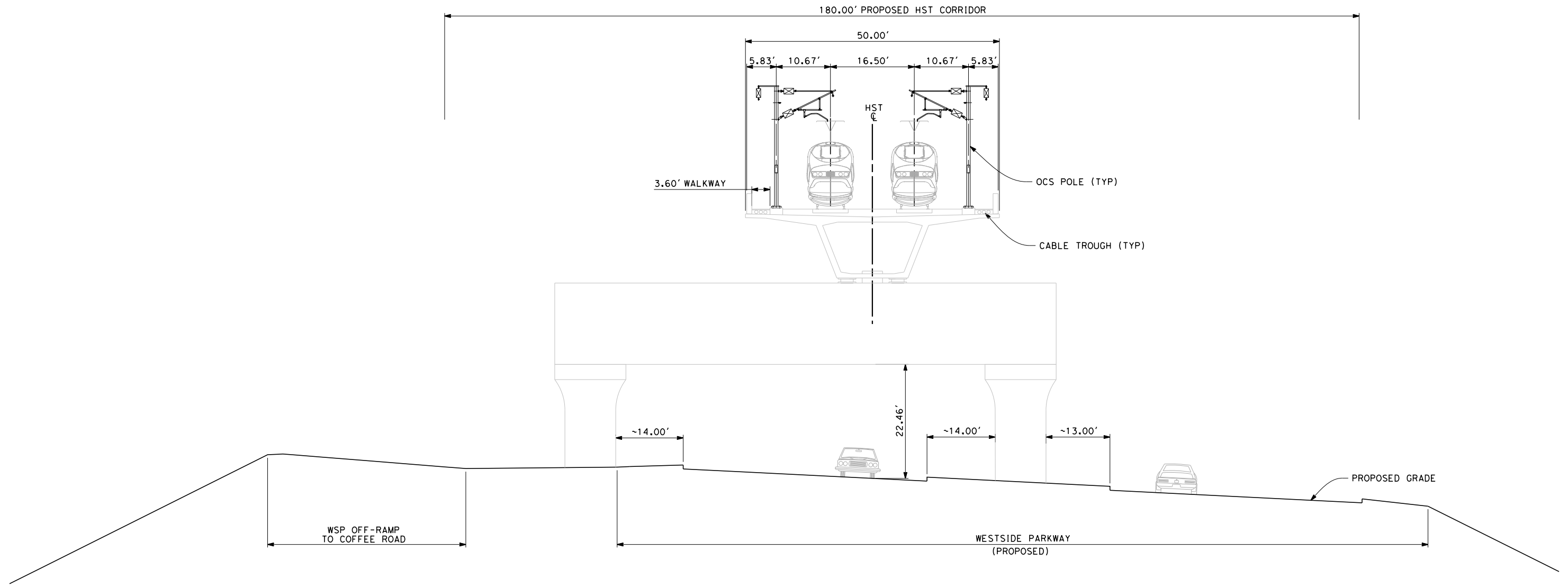
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B2  
 CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB3802  
 SCALE  
AS SHOWN  
 SHEET NO.  
29 OF 38

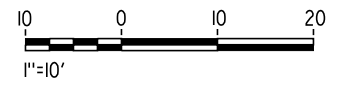


7/20/2011 5:18:52 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3803.dgn

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE.
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
  3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
  4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 3**  
 TWIN TRACK AERIAL STRUCTURE  
 OVERLAPPING WESTSIDE PARKWAY LOOKING SOUTHBOUND  
 STATION 7019+00



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
 DRAWN BY  
P. ROY  
 CHECKED BY  
P. TURCOTTE  
 IN CHARGE  
T. ROWORTH  
 DATE  
05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B2  
 CROSS SECTIONS

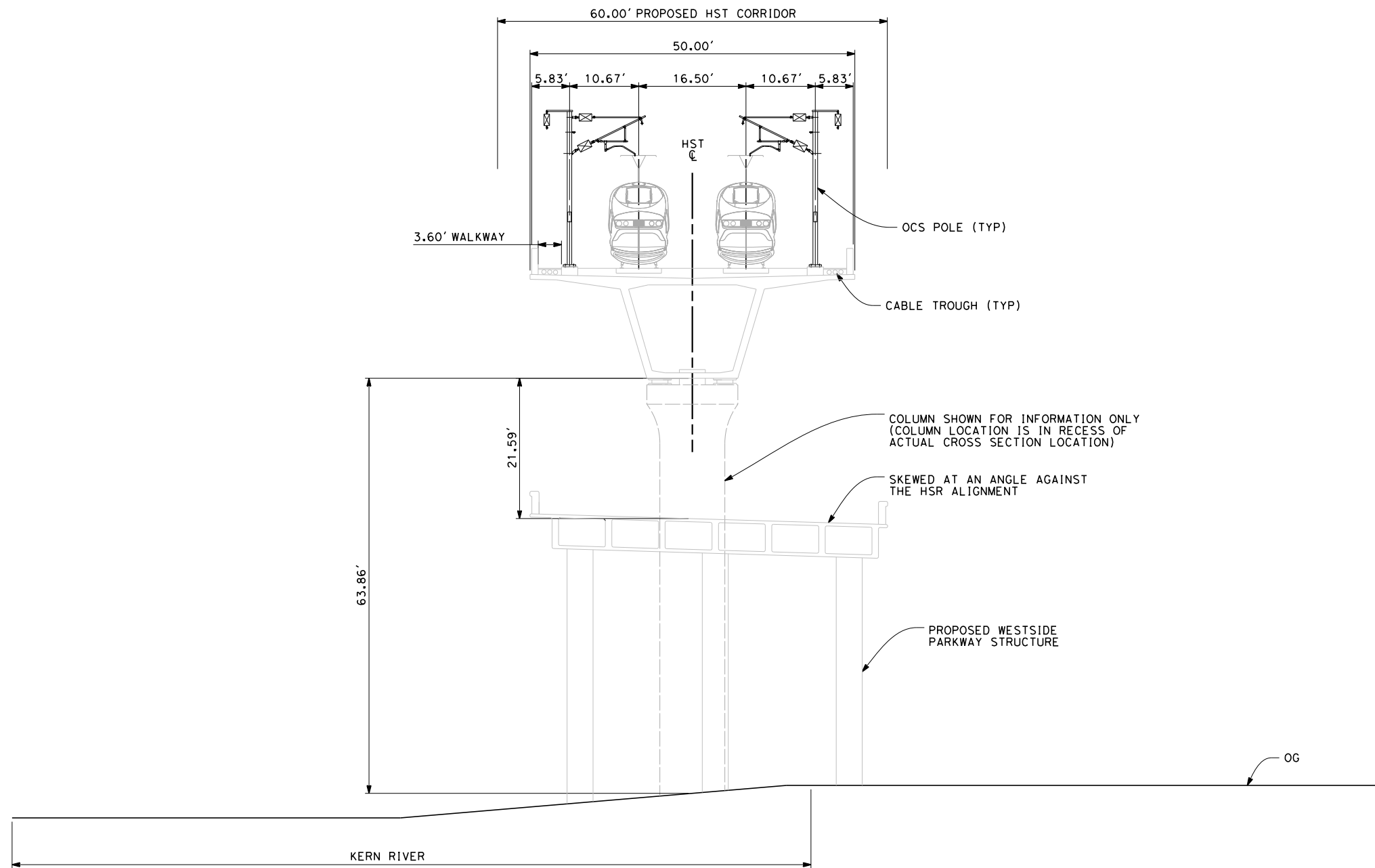
CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CB3803  
 SCALE  
AS SHOWN  
 SHEET NO.  
30 OF 38



7/20/2011 5:19:05 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3804.dgn

**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 4**

WESTSIDE PARKWAY OFF-RAMP CONNECTING TO TRUXTUN AVE LOOKING SOUTHBOUND  
STATION 7097+40



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NG
DRAWN BY P. ROY
CHECKED BY P. TURCOTTE
IN CHARGE T. ROWORTH
DATE 05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
CROSS SECTIONS

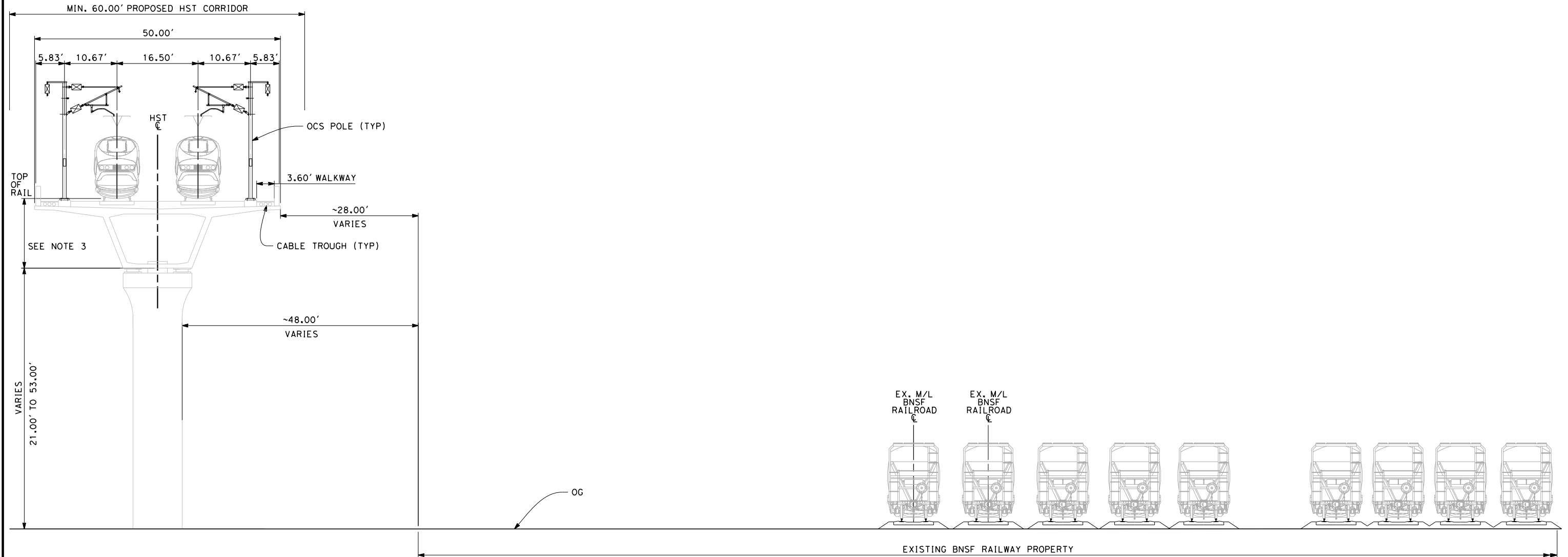
CONTRACT NO. HSR 06-0003
DRAWING NO. CB3804
SCALE AS SHOWN
SHEET NO. 31 OF 37



7/20/2011 5:19:21 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3805.dgn

**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
3. DEPTH OF VIADUCT STRUCTURE VARIES FROM 14.50' to 18.50' FOR INDICATED STATION RANGE.
4. SINGLE PIER STRUCTURE SHOWN FOR GENERAL PURPOSES. STRADDLE BENT/OUTRIGGER STRUCTURES ARE PRESENT WITHIN INDICATED STATION RANGE. PLEASE REFER TO STRUCTURAL DRAWINGS.
5. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
6. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 5**  
TWIN TRACK AERIAL STRUCTURE WITH  
BNSF RAILWAY YARD LOOKING SOUTHBOUND  
STATIONS 7125+00 TO 7229+00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NG
DRAWN BY P. ROY
CHECKED BY P. TURCOTTE
IN CHARGE T. ROWORTH
DATE 05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

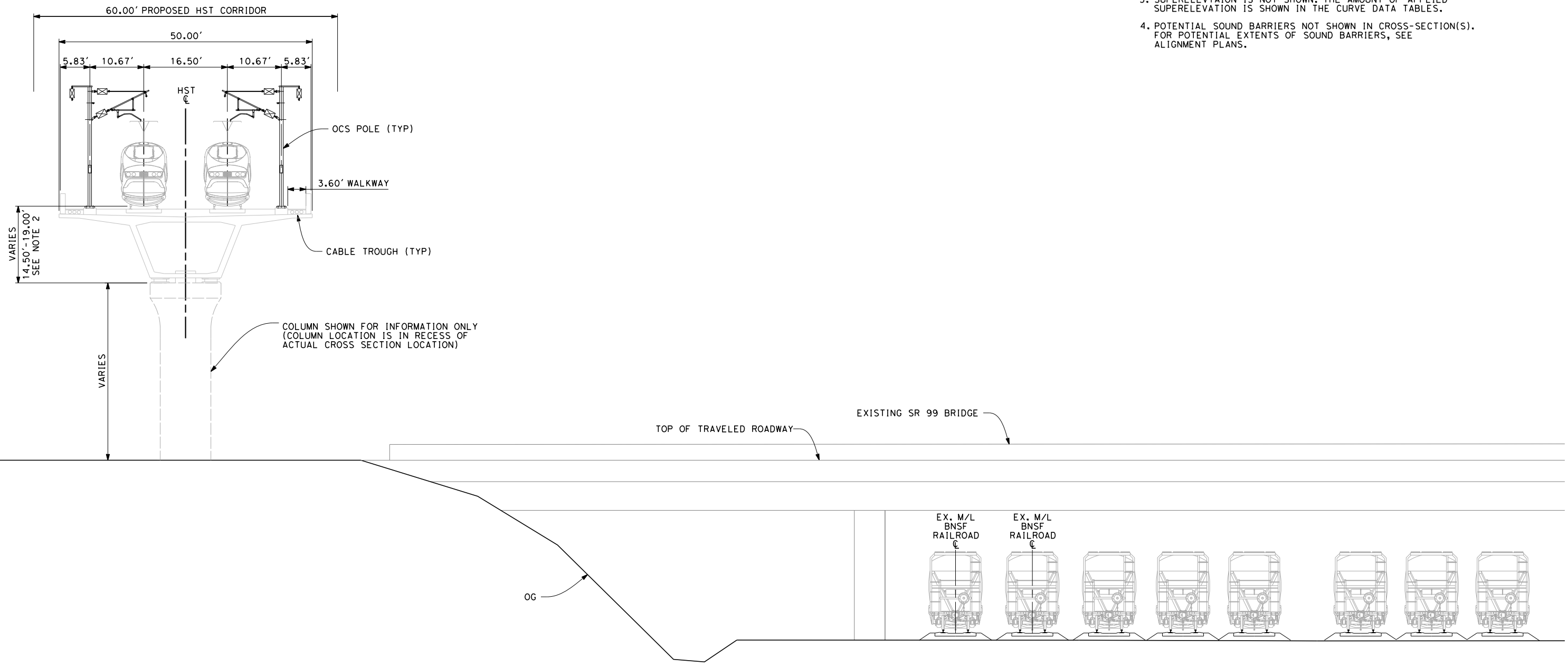


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CB3805
SCALE AS SHOWN
SHEET NO. 32 OF 38

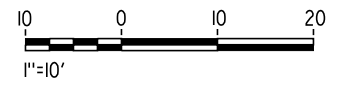


7/20/2011 5:19:37 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3806.dgn



- NOTES:**
1. TRACKFORM SHOWN IS INDICATIVE.
  2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
  3. SUPERELEVATION IS NOT SHOWN, THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
  4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.

**SECTION 6**  
TWIN TRACK AERIAL STRUCTURE  
OVERLAPPING SR 99 BRIDGE LOOKING SOUTHBOUND  
STATION 7147+00



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
CROSS SECTIONS

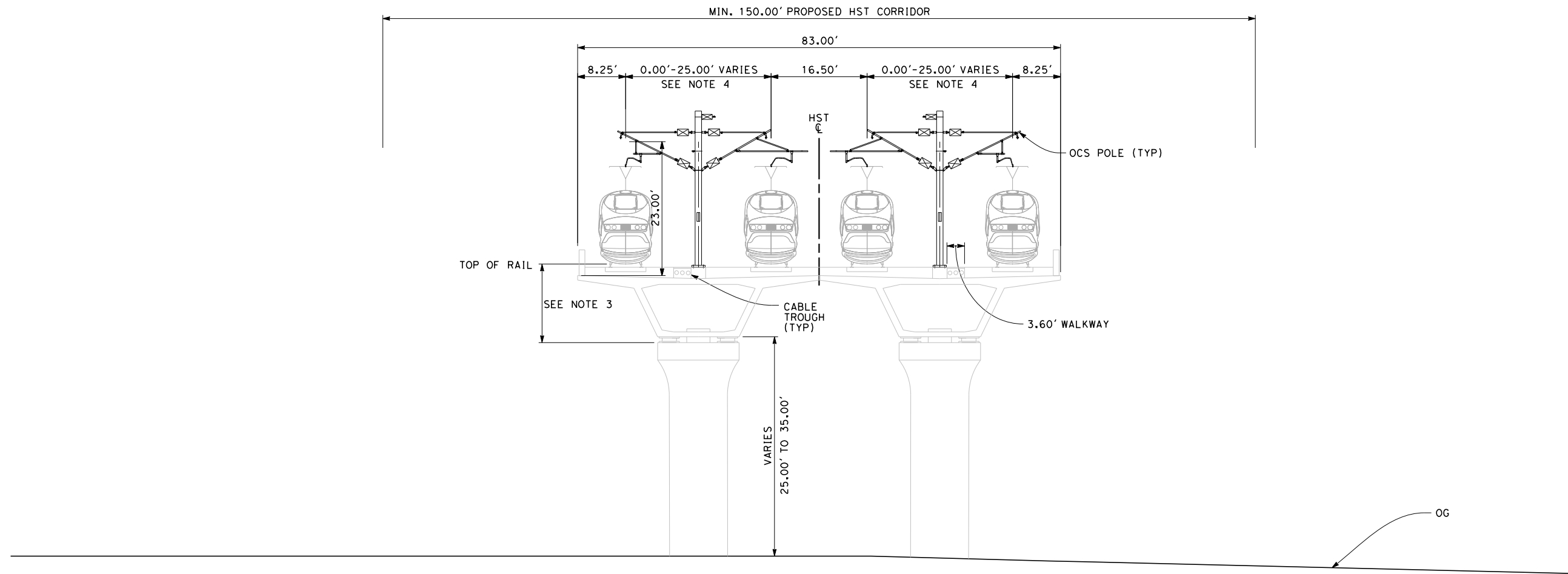
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HSR 06-0003  
DRAWING NO.  
CB3806  
SCALE  
AS SHOWN  
SHEET NO.  
33 OF 38



7/20/2011 5:19:59 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - WS4 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3807.dgn

**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
3. DEPTH OF VIADUCT STRUCTURE VARIES FROM 14.50' to 18.50' FOR INDICATED STATION RANGE.
4. DISTANCE BETWEEN TRACKS VARIES FROM 0.00'-25.00' THROUGH TURNOUT AND REVERSE TO PARALLEL.
5. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 7**

FOUR TRACK STRUCTURE LOOKING SOUTHBOUND  
 STATIONS 7229+00 TO 7252+45  
 STATIONS 7266+55 TO 7290+00



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NG
DRAWN BY P. ROY
CHECKED BY P. TURCOTTE
IN CHARGE T. ROWORTH
DATE 05/13/11

**RECORD SET 15%  
 DESIGN SUBMISSION**

**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B2  
 CROSS SECTIONS

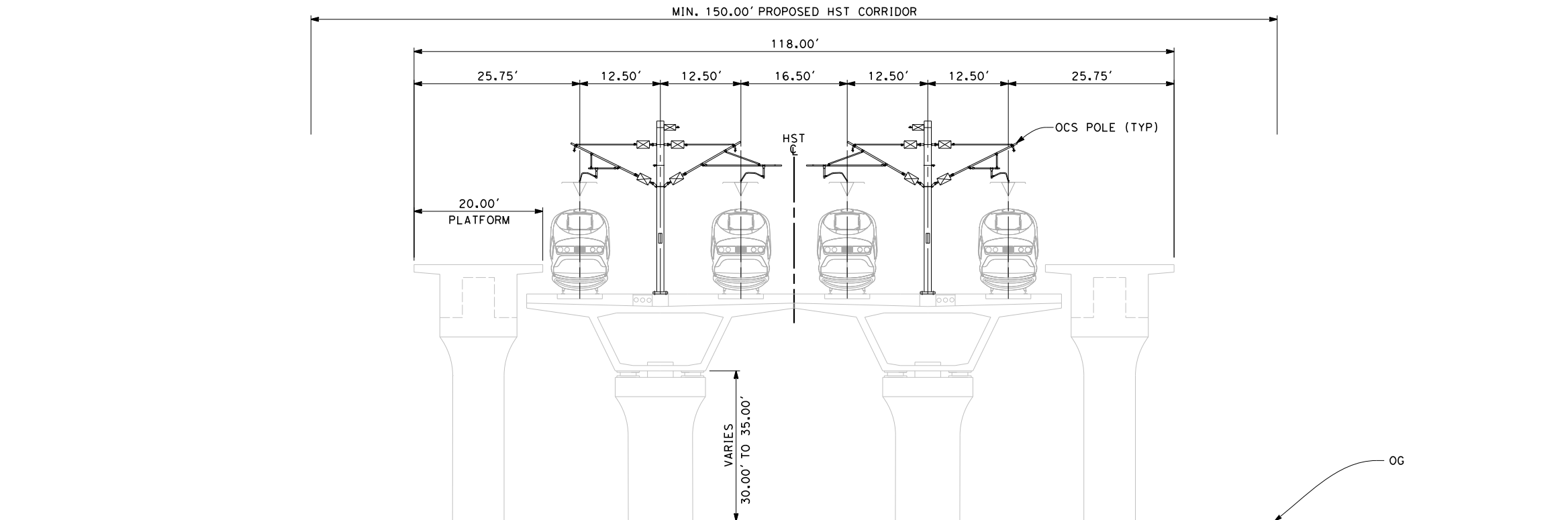
CONTRACT NO. HSR 06-0003
DRAWING NO. CB3807
SCALE AS SHOWN
SHEET NO. 34 OF 38



7/20/2011 5:20:41 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3810.dgn

**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
3. DEPTH OF VIADUCT STRUCTURE VARIES FROM 14.50' TO 18.50' FOR INDICATED STATION RANGE.
4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 10**

FOUR TRACK STRUCTURE AT BAKERSFIELD STATION LOOKING SOUTHBOUND  
STATIONS 7252+45 TO 7266+55



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. NG  
DRAWN BY  
P. ROY  
CHECKED BY  
P. TURCOTTE  
IN CHARGE  
T. ROWORTH  
DATE  
05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
CROSS SECTIONS

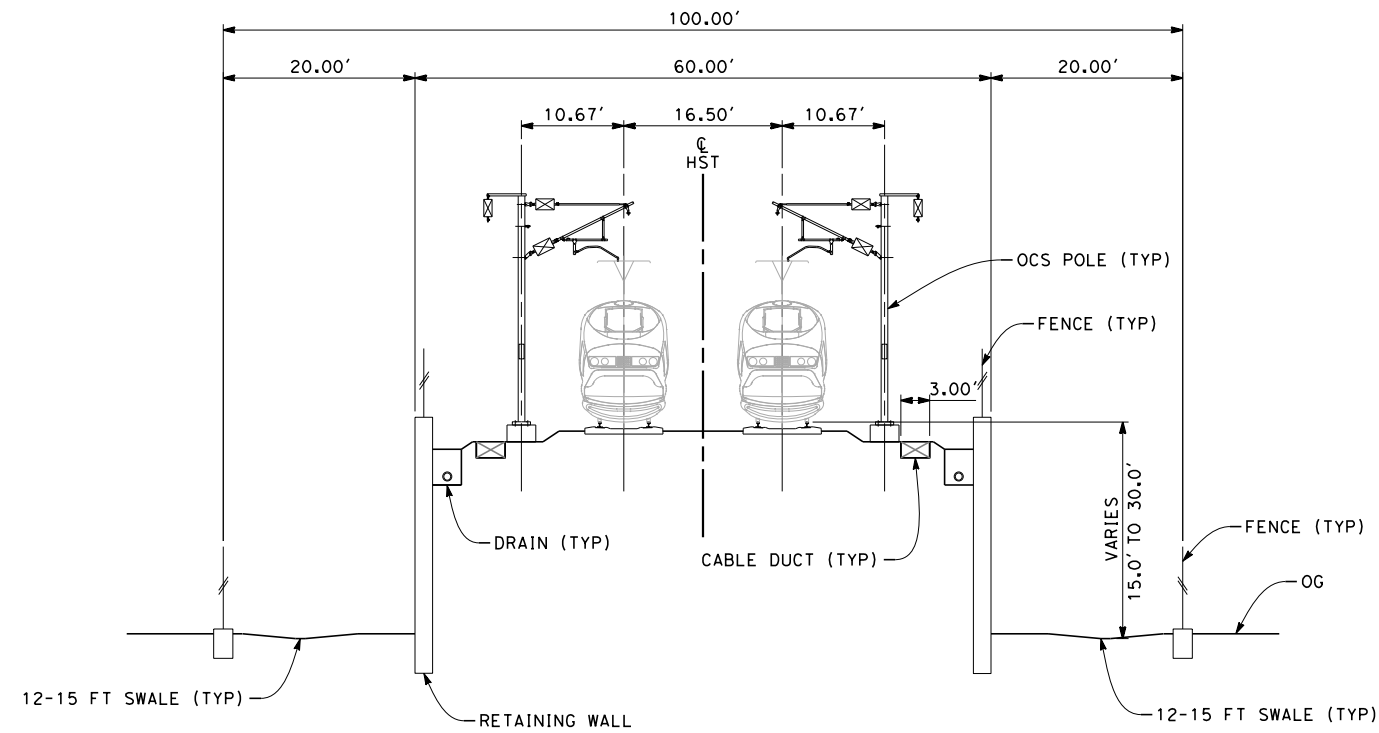
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB3810  
SCALE  
AS SHOWN  
SHEET NO.  
37 OF 38



7/20/2011 5:21:03 AM G:\\_Sacramento\URS\235413 CA HSR Fresno Palmdale\16.0 Drawings\B1-Fresno to Bakersfield - W54 15% CCE\2011-07-14 B1\_B2 Noise Barrier Additions\FB-CB-3811.dgn

**NOTES:**

1. TRACKFORM SHOWN IS INDICATIVE.
2. SUPERELEVATION IS NOT SHOWN, THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS-SECTION(S). FOR POTENTIAL EXTENTS OF SOUND BARRIERS, SEE ALIGNMENT PLANS.



**SECTION 11**

TWIN TRACK ON RETAINING WALL  
LOOKING SOUTHBOUND  
STATIONS 6921+50 TO 6930+54



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NG
DRAWN BY P. ROY
CHECKED BY P. TURCOTTE
IN CHARGE T. ROWORTH
DATE 05/13/11

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B2  
CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CB3811
SCALE AS SHOWN
SHEET NO. 38 OF 38