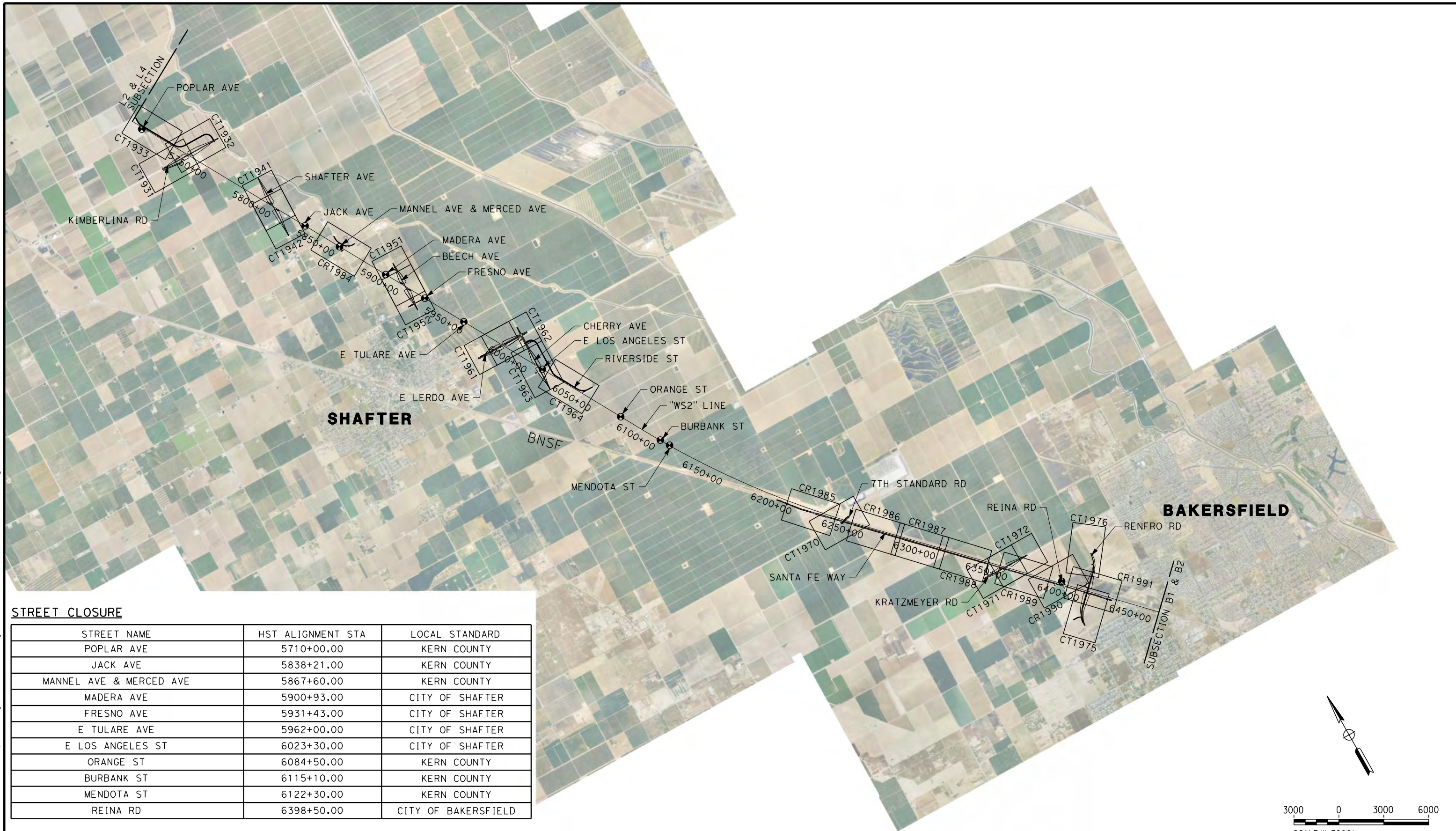


12/30/2013 4:00:32 PM c:\pwworking\hmm\external\jos53823\dms70862\FB-CB-0180-WS2.dgn

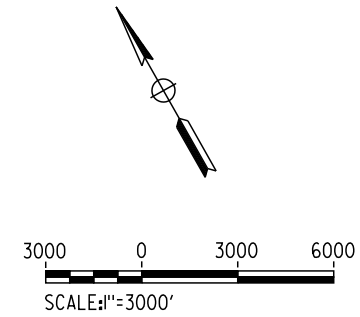


**SHAFTER**

**BAKERSFIELD**

**STREET CLOSURE**

STREET NAME	HST ALIGNMENT STA	LOCAL STANDARD
POPLAR AVE	5710+00.00	KERN COUNTY
JACK AVE	5838+21.00	KERN COUNTY
MANNEL AVE & MERCED AVE	5867+60.00	KERN COUNTY
MADERA AVE	5900+93.00	CITY OF SHAFTER
FRESNO AVE	5931+43.00	CITY OF SHAFTER
E TULARE AVE	5962+00.00	CITY OF SHAFTER
E LOS ANGELES ST	6023+30.00	CITY OF SHAFTER
ORANGE ST	6084+50.00	KERN COUNTY
BURBANK ST	6115+10.00	KERN COUNTY
MENDOTA ST	6122+30.00	KERN COUNTY
REINA RD	6398+50.00	CITY OF BAKERSFIELD



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

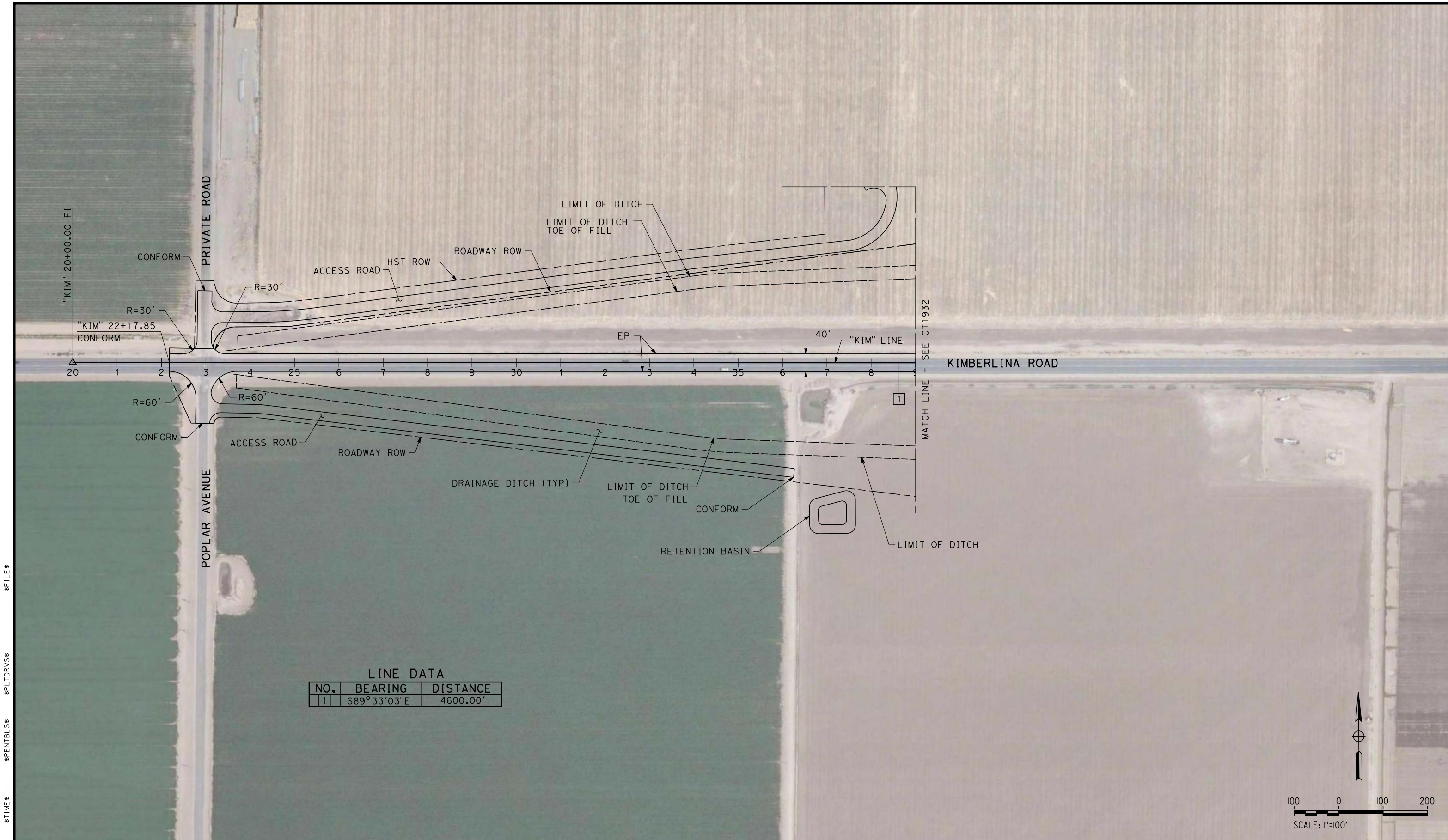
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DESIGN SUBMISSION**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
ROADWAY / GRADE SEPARATION  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CB0180  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 60





**LINE DATA**

NO.	BEARING	DISTANCE
1	S89°33'03"E	4600.00'

\$USER \$ DATE \$ TIME \$ \$PENTBLS \$ \$PLTDRVS \$ \$FILE \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. RAMIREZ**  
 DRAWN BY  
**V. ORTEGA**  
 CHECKED BY  
**B. RAWSON**  
 IN CHARGE  
**R. COFFIN**  
 DATE  
**12/31/13**

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION LAYOUT  
 KIMBERLINA RD & POPLAR AVE

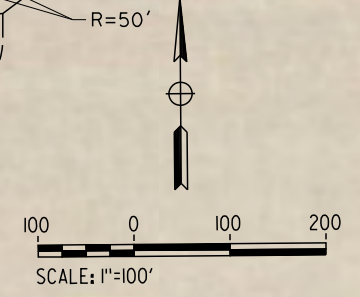
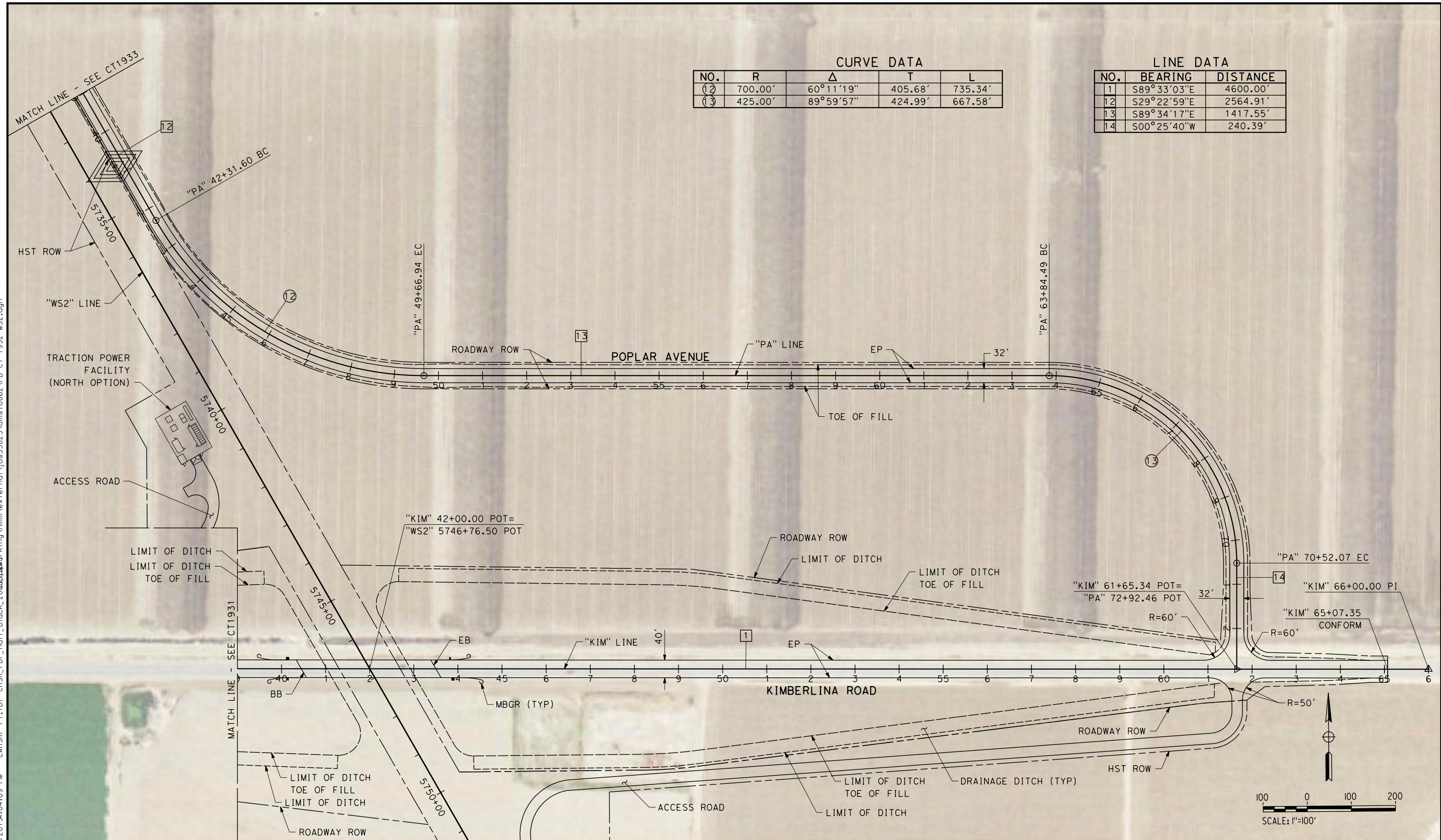
CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CT1931  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 2 OF 60



12/30/2013 4:04:09 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\joes53823\dms70862\FB-CT-1932-WS2.dgn

CURVE DATA				
NO.	R	Δ	T	L
12	700.00'	60°11'19"	405.68'	735.34'
13	425.00'	89°59'57"	424.99'	667.58'

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°33'03"E	4600.00'
12	S29°22'59"E	2564.91'
13	S89°34'17"E	1417.55'
14	S00°25'40"W	240.39'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION LAYOUT  
 KIMBERLINA RD & POPLAR AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT1932  
SCALE  
AS SHOWN  
SHEET NO.  
3 OF 60



12/30/2013 4:05:10 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\jos53823\dms70862\FB-CT-1933-WS2.dgn

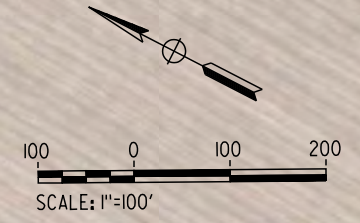


CURVE DATA

NO.	R	$\Delta$	T	L
(1)	700.00'	30°48'46"	192.90'	376.45'

LINE DATA

NO.	BEARING	DISTANCE
11	S01°25'47"W	290.24'
12	S29°22'59"E	2564.91'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION LAYOUT  
POPLAR AVE

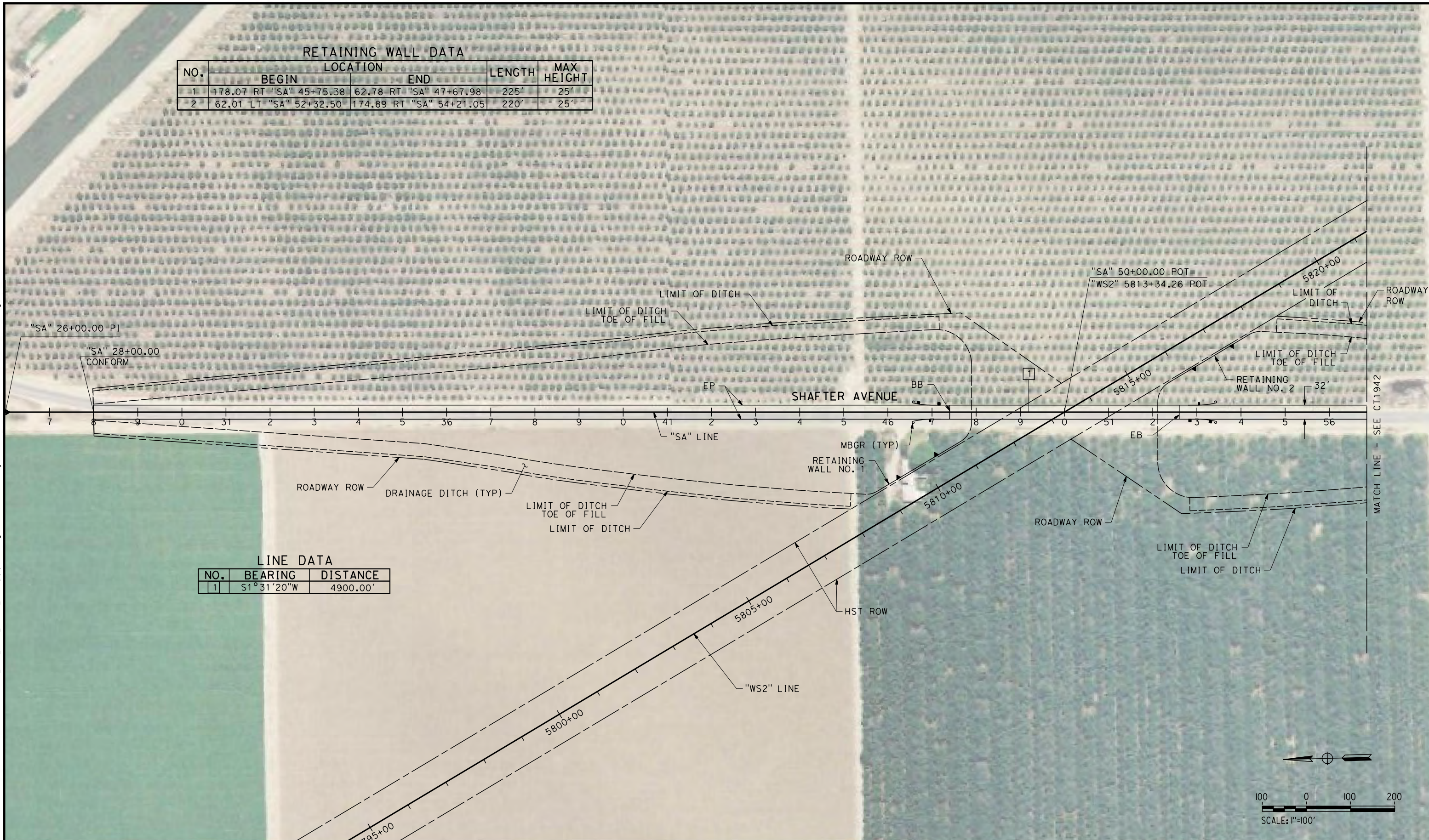
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT1933  
SCALE  
AS SHOWN  
SHEET NO.  
4 OF 60



RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	178.07 RT "SA" 45+75.38	62.78 RT "SA" 47+67.98	225'	25'
2	62.01 LT "SA" 52+32.50	174.89 RT "SA" 54+21.05	220'	25'

12/30/2013 4:06:12 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\jos53823\dms\external\jos53823\dms70862\FB-CT-1941-WS2.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S1°31'20"W	4900.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION LAYOUT  
SHAFTER AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT1941  
SCALE  
AS SHOWN  
SHEET NO.  
5 OF 60



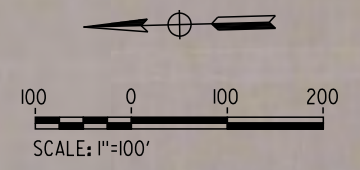
12/30/2013 4:08:29 PM CAHSR-r1.tbl CHSR\_PDF\_half\_block\_200dpi.dwg \\jos53823\dms70862\FB-CT-1942-WS2.dgn



MATCH LINE - SEE CT1941

**LINE DATA**

NO.	BEARING	DISTANCE
1	S01°31'20"W	4900.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION LAYOUT  
SHAFTER AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT1942  
SCALE  
AS SHOWN  
SHEET NO.  
6 OF 60

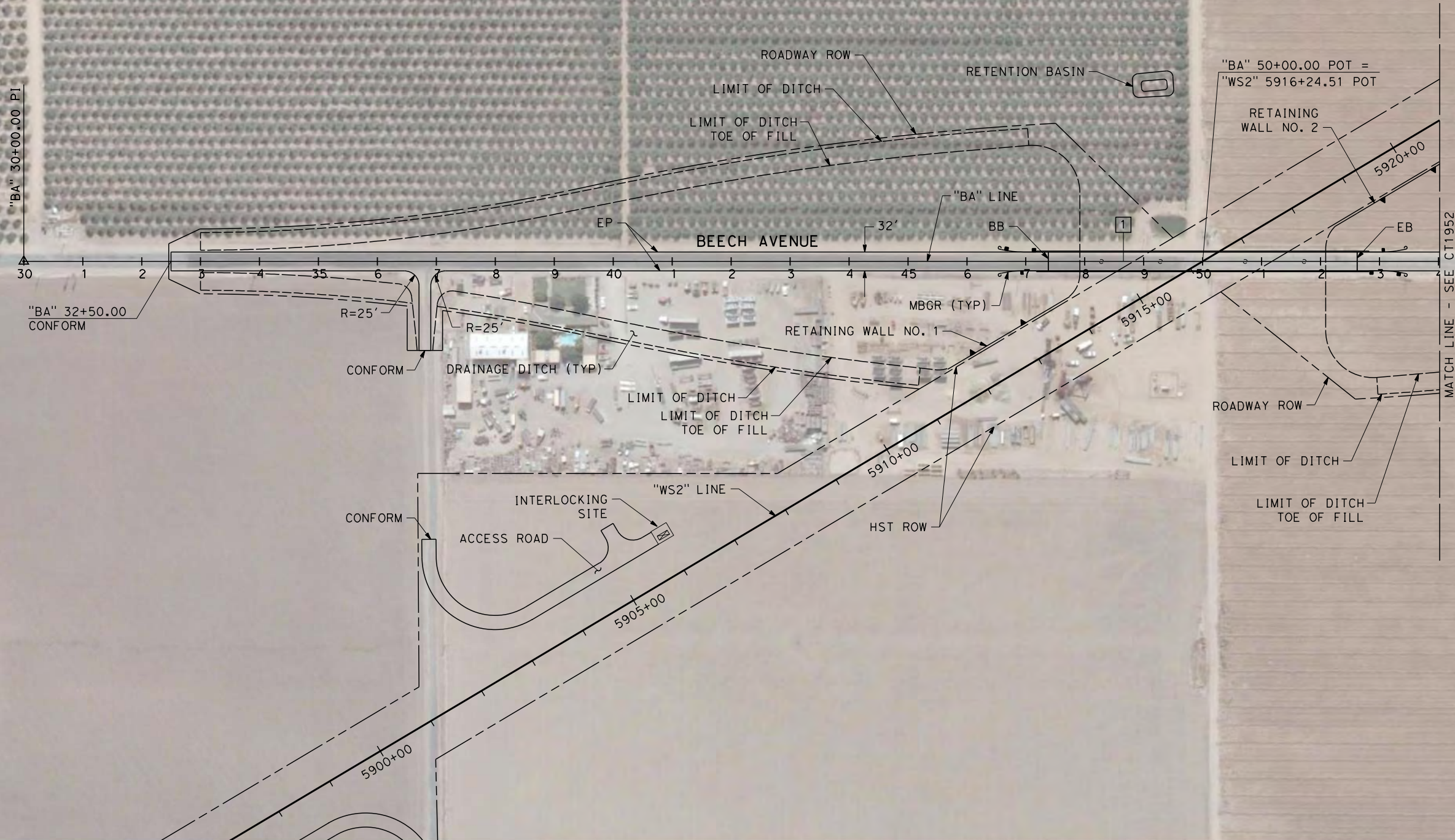


LINE DATA

NO.	BEARING	DISTANCE
1	S01°23'52"W	4000.00'

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	177.44 RT "BA" 45+64.05	54.35 RT "BA" 47+70.69	241'	24'
2	54.44 LT "BA" 52+29.31	178.63 LT "BA" 54+37.91	243'	24'



12/30/2013 4:08:55 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\jos53823\dms70862\FB-CT-1951-WS2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

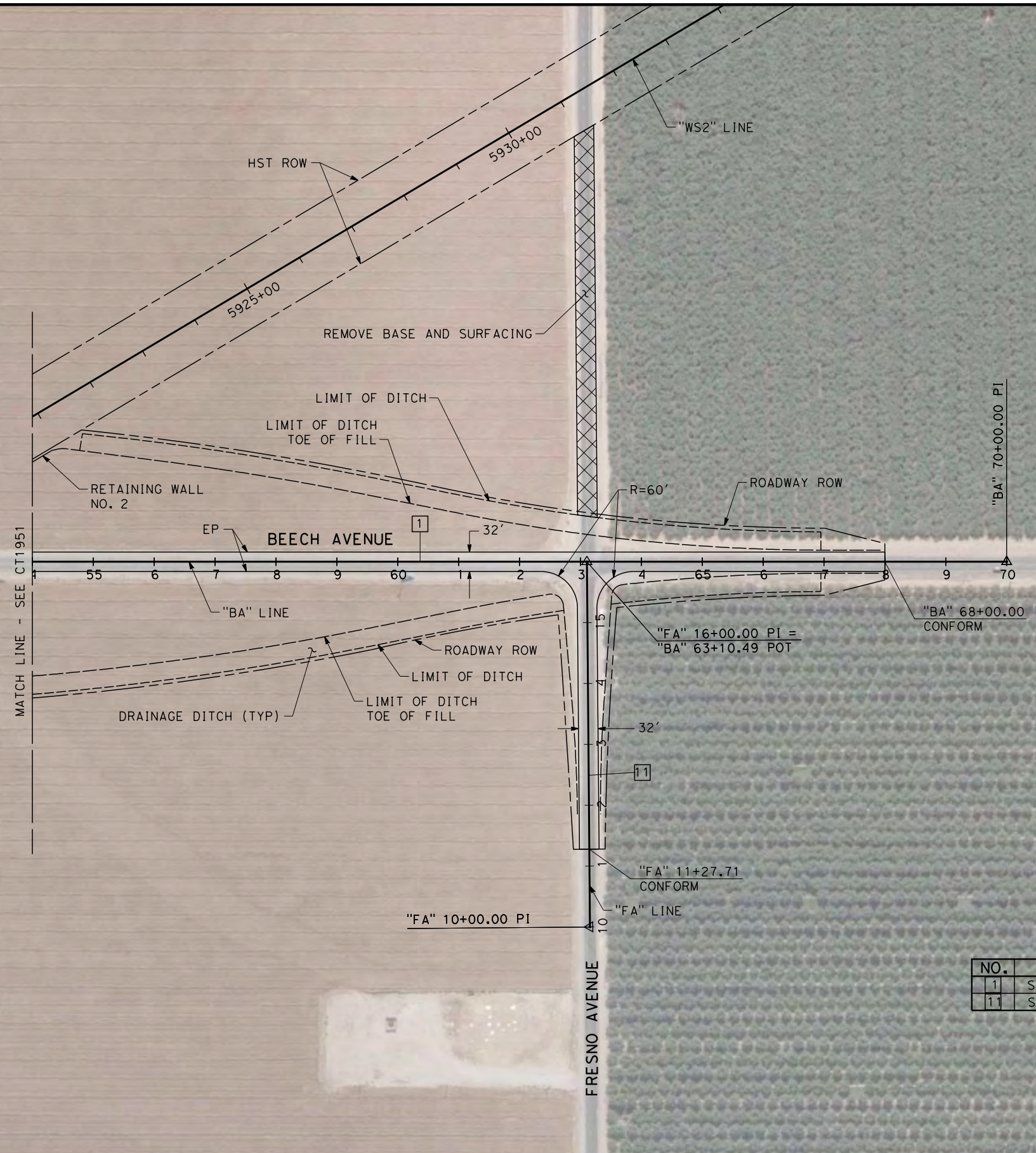


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION LAYOUT  
BEECH AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT1951  
SCALE  
AS SHOWN  
SHEET NO.  
7 OF 60

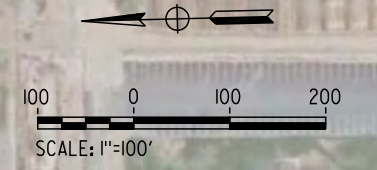


12/30/2013 4:09:50 PM CAHSR-r1.tbl CHSR\_PDF\_half\_block\_2013.ctb \\jos53823\dm\working\hmm\external\jos53823\dms70862\FB-CT-1952-WS2.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S01°23'52"W	4000.00'
11	S89°05'21"E	600.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION LAYOUT  
BEECH AVE & FRESNO AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT1952  
SCALE  
AS SHOWN  
SHEET NO.  
8 OF 60



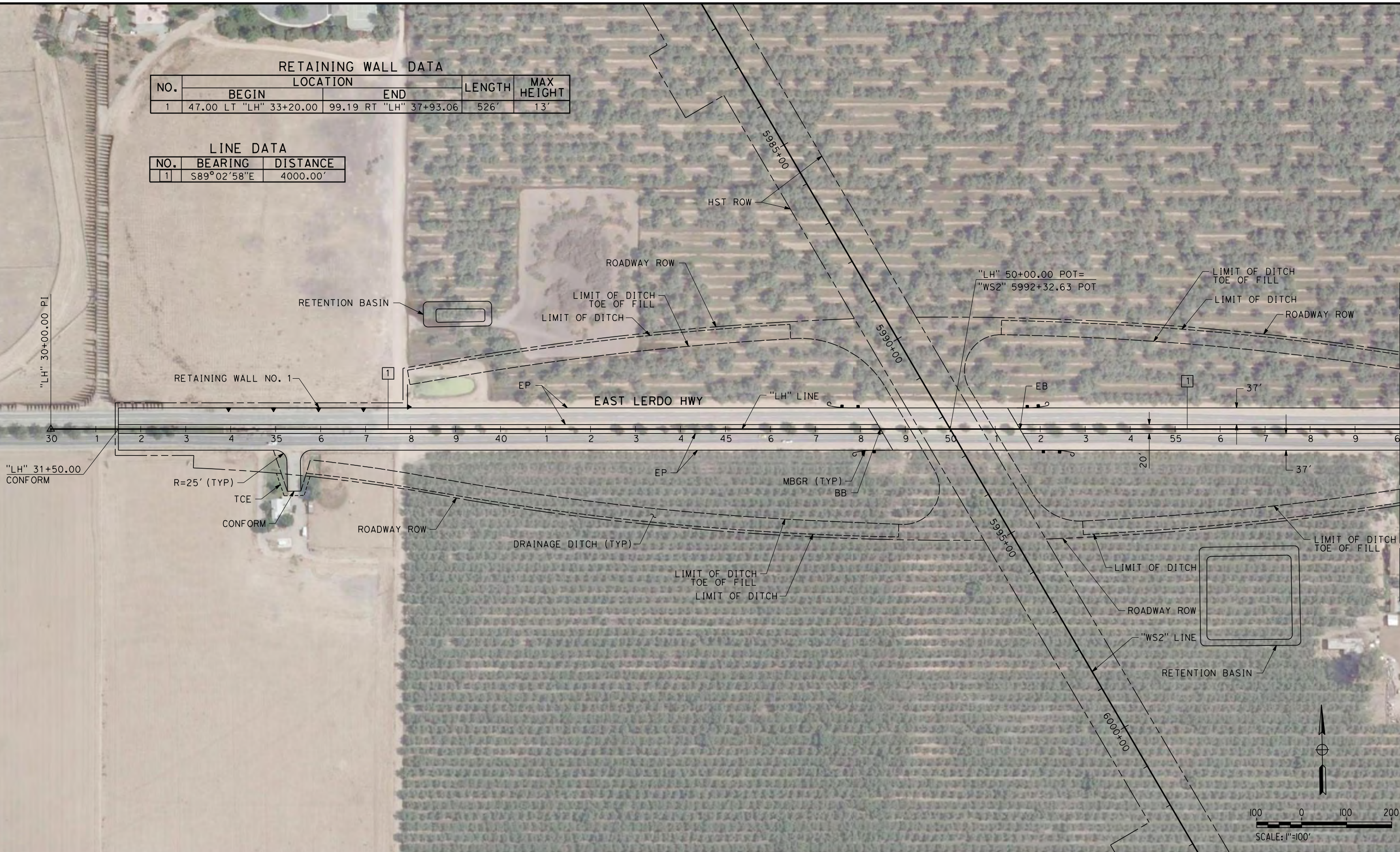
12/30/2013 4:10:15 PM CAHSR-r1.tbl CHSR\_PDF\_half\_block\_2013.dwg \joes3823\dms70862\FB-CT-1961-WS2.dgn

**RETAINING WALL DATA**

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	47.00 LT "LH" 33+20.00	99.19 RT "LH" 37+93.06	526'	13'

**LINE DATA**

NO.	BEARING	DISTANCE
1	S89°02'58"E	4000.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION LAYOUT  
EAST LERDO HWY

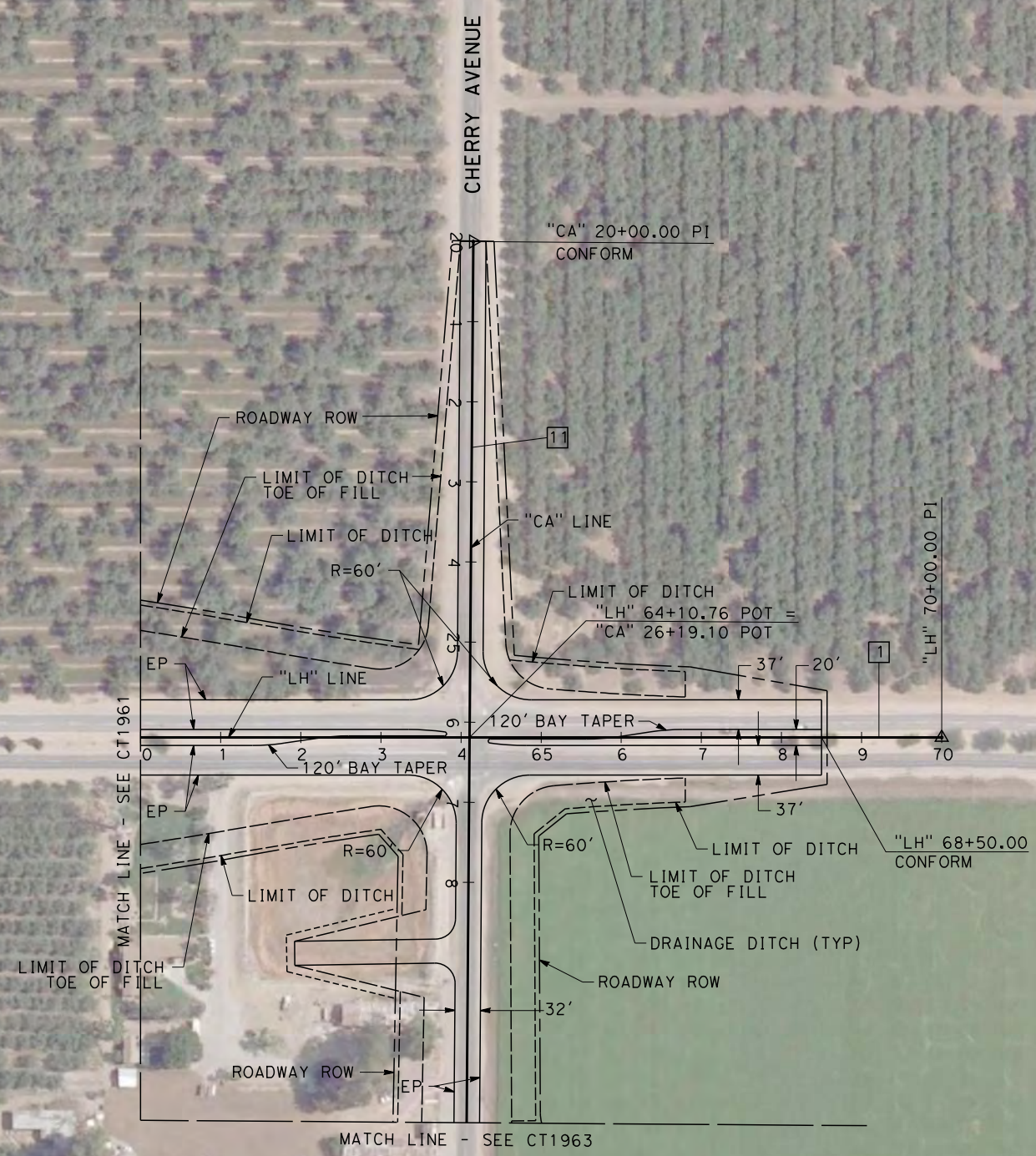
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT1961  
SCALE  
AS SHOWN  
SHEET NO.  
9 OF 60



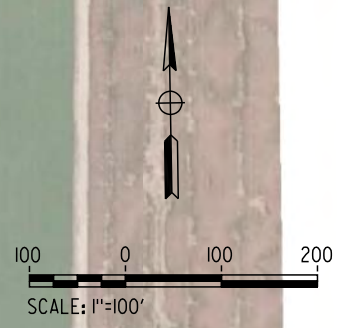
12/30/2013 4:10:48 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\jos53823\dms70862\FB-CT-1962-WS2.dgn

LINE DATA

NO.	BEARING	DISTANCE
1	S89°02'58"E	4000.00'
11	S11°22'30"W	5000.00'



EAST LERDO HWY



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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

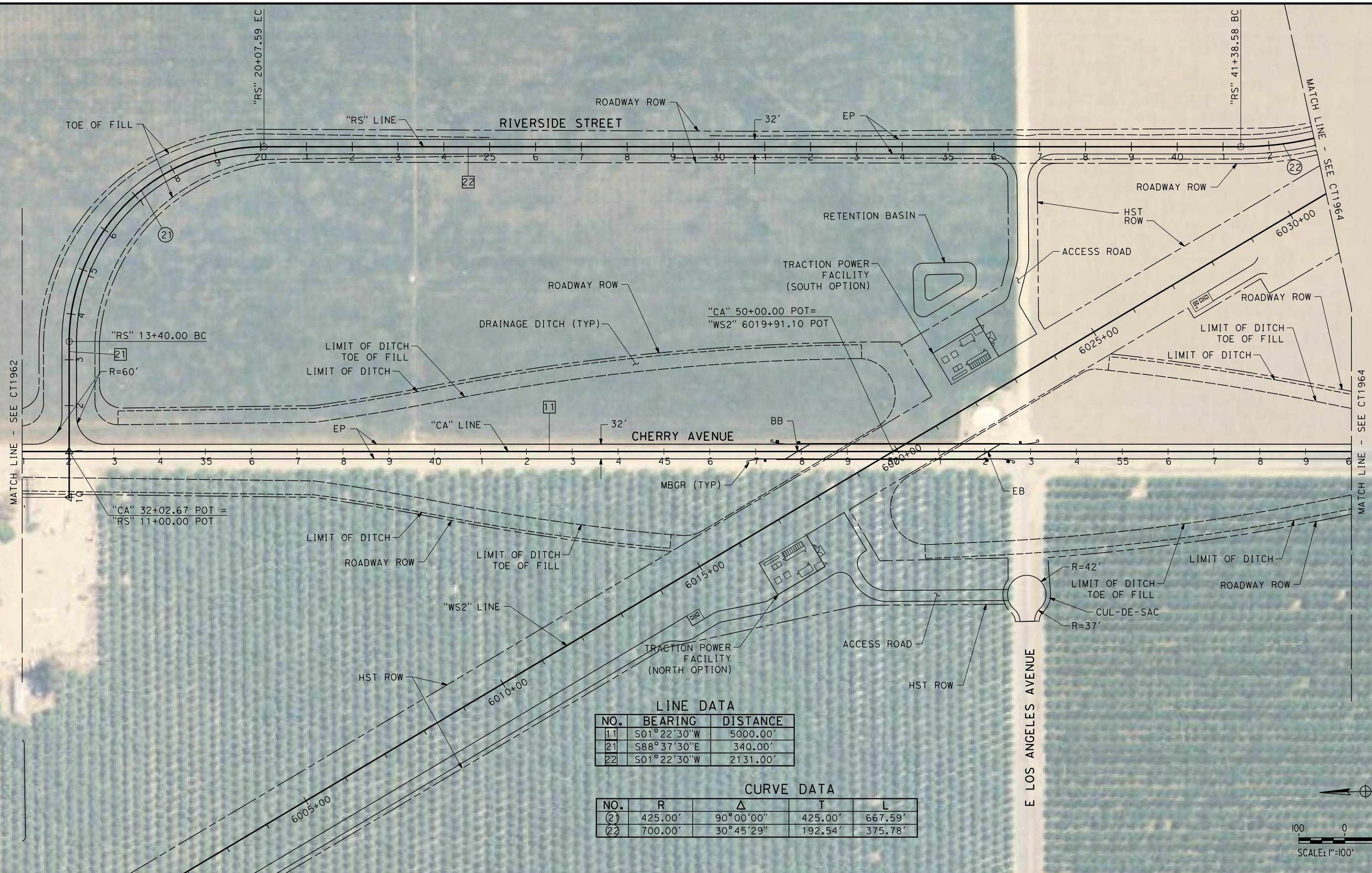


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION LAYOUT  
EAST LERDO HWY & CHERRY AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT1962  
SCALE  
AS SHOWN  
SHEET NO.  
10 OF 60



12/30/2013 4:11:18 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\jos53823\dms70862\FB-CT-1963-WS2.dgn

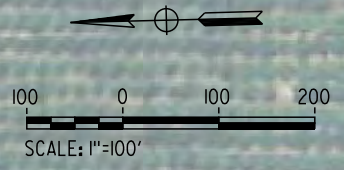


**LINE DATA**

NO.	BEARING	DISTANCE
11	S01°22'30"W	5000.00'
21	S88°37'30"E	340.00'
22	S01°22'30"W	2131.00'

**CURVE DATA**

NO.	R	Δ	T	L
(21)	425.00'	90°00'00"	425.00'	667.59'
(22)	700.00'	30°45'29"	192.54'	375.78'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION LAYOUT  
CHERRY AVE & RIVERSIDE ST

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT1963  
SCALE  
AS SHOWN  
SHEET NO.  
11 OF 60



12/30/2013 4:12:40 PM CAHSR-r1.tbl CHSR\_PDF\_half\_block\_200dpi.ctb \\jos53823\dms70862\FB-CT-1964-WS2.dgn

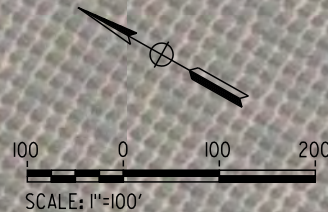


**LINE DATA**

NO.	BEARING	DISTANCE
11	S01°22'30"W	5000.00'
23	S29°22'59"E	1690.67'
24	S89°03'41"E	361.58'

**CURVE DATA**

NO.	R	Δ	T	L
22	700.00'	30°45'29"	192.54'	375.78'
23	700.00'	59°40'42"	401.53'	729.11'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

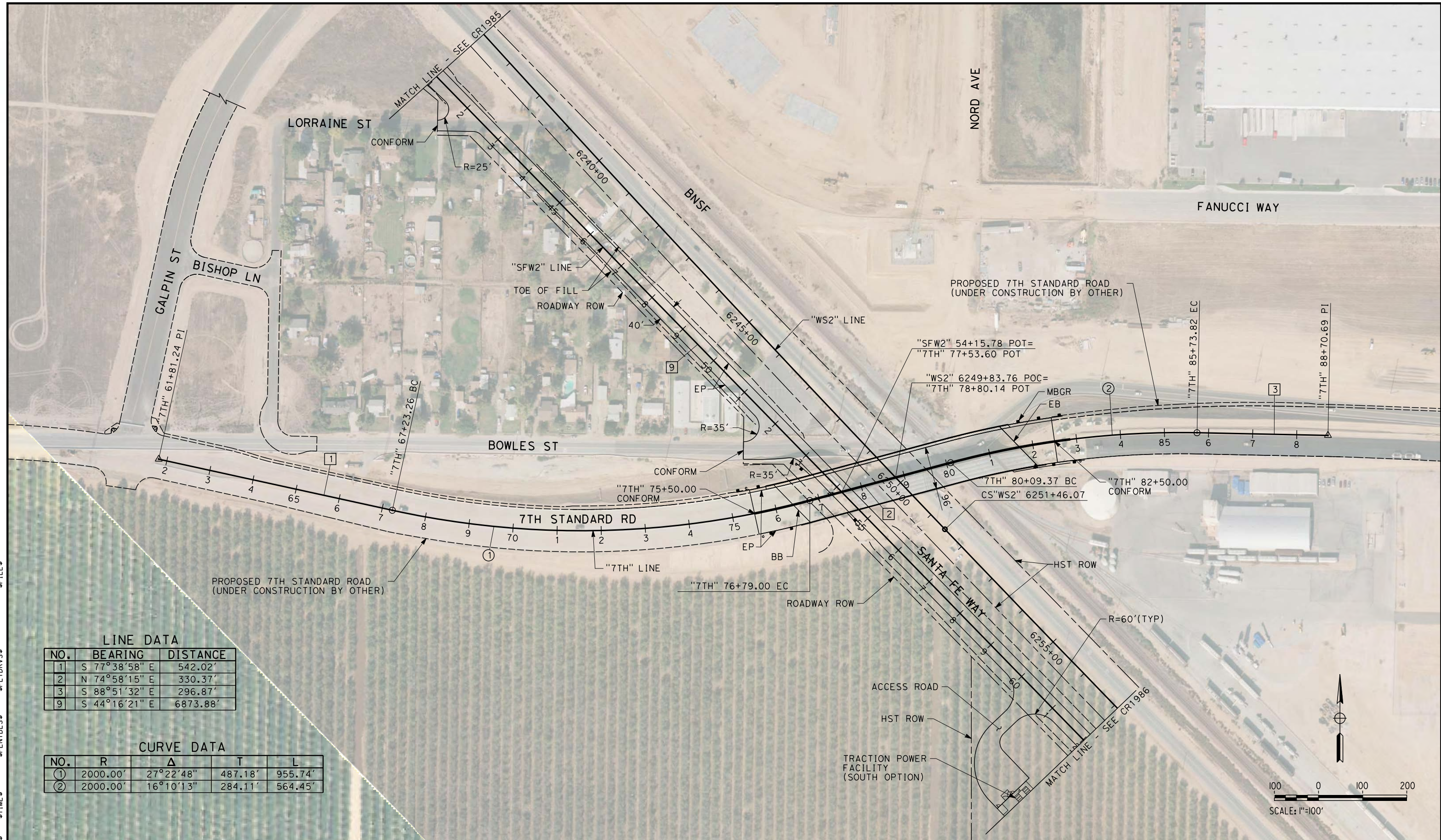
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION LAYOUT  
CHERRY AVE & RIVERSIDE ST

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT1964  
SCALE  
AS SHOWN  
SHEET NO.  
12 OF 60





**LINE DATA**

NO.	BEARING	DISTANCE
1	S 77°38'58" E	542.02'
2	N 74°58'15" E	330.37'
3	S 88°51'32" E	296.87'
9	S 44°16'21" E	6873.88'

**CURVE DATA**

NO.	R	Δ	T	L
①	2000.00'	27°22'48"	487.18'	955.74'
②	2000.00'	16°10'13"	284.11'	564.45'

\$FILE \$  
 \$PLTDRVS \$  
 \$PENTBLS \$  
 \$TIME \$  
 \$DATE \$  
 \$USER \$

REV	DATE	BY	CHK	APP	DESCRIPTION

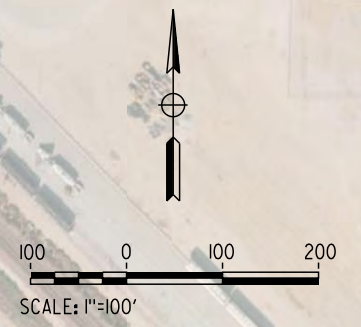
DESIGNED BY  
**C. RAMIREZ**  
 DRAWN BY  
**V. ORTEGA**  
 CHECKED BY  
**B. RAWSON**  
 IN CHARGE  
**R. COFFIN**  
 DATE  
**12/31/13**

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



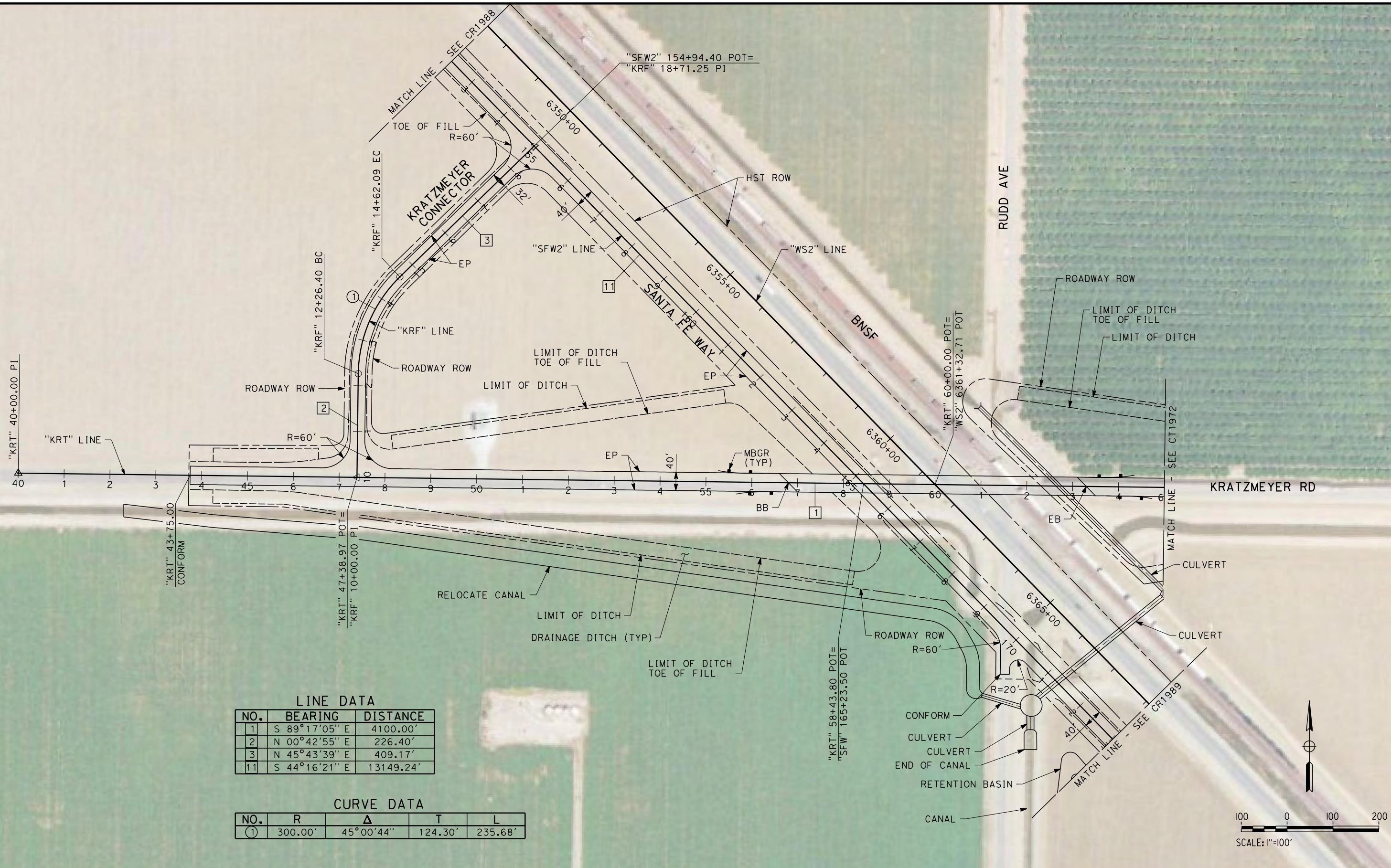
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION LAYOUT  
 7TH STANDARD RD

CONTRACT NO.  
**HSR 06-0003**  
 DRAWING NO.  
**CT1970**  
 SCALE  
**AS SHOWN**  
 SHEET NO.  
**13 OF 60**





12/30/2013 1:14:09 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\jos53823\dms70862\FB-CT-1971-WS2.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S 89°17'05" E	4100.00'
2	N 00°42'55" E	226.40'
3	N 45°43'39" E	409.17'
11	S 44°16'21" E	13149.24'

CURVE DATA

NO.	R	Δ	T	L
①	300.00'	45°00'44"	124.30'	235.68'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION LAYOUT  
KRATZMEYER ROAD

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT1971  
SCALE  
AS SHOWN  
SHEET NO.  
14 OF 60



12/30/2013 4:15:10 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \joes3823\dms70862\FB-CT-1972-WS2.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S 89° 17' 05" E	4100.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION LAYOUT  
KRATZMEYER ROAD

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT1972  
SCALE  
AS SHOWN  
SHEET NO.  
15 OF 60



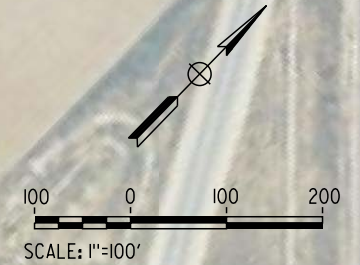


**LINE DATA**

NO.	BEARING	DISTANCE
1	N 00°41'27" E	91.77'
2	N 45°53'39" E	2379.98'
3	S 89°14'41" E	252.61'
4	S 68°07'50" E	189.51'

**CURVE DATA**

NO.	R	Δ	T	L
①	1660.00'	45°12'12"	691.05'	1309.65'
③	500.00'	21°06'51"	93.19'	184.26'



\$USER \$ DATE \$ TIME \$ \$PENTBLS \$ \$PLTDRVS \$ \$FILE \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. RAMIREZ**  
 DRAWN BY  
**V. ORTEGA**  
 CHECKED BY  
**B. RAWSON**  
 IN CHARGE  
**R. COFFIN**  
 DATE  
**12/31/13**

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION LAYOUT  
 RENFRO RD

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CT1975  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 16 OF 60



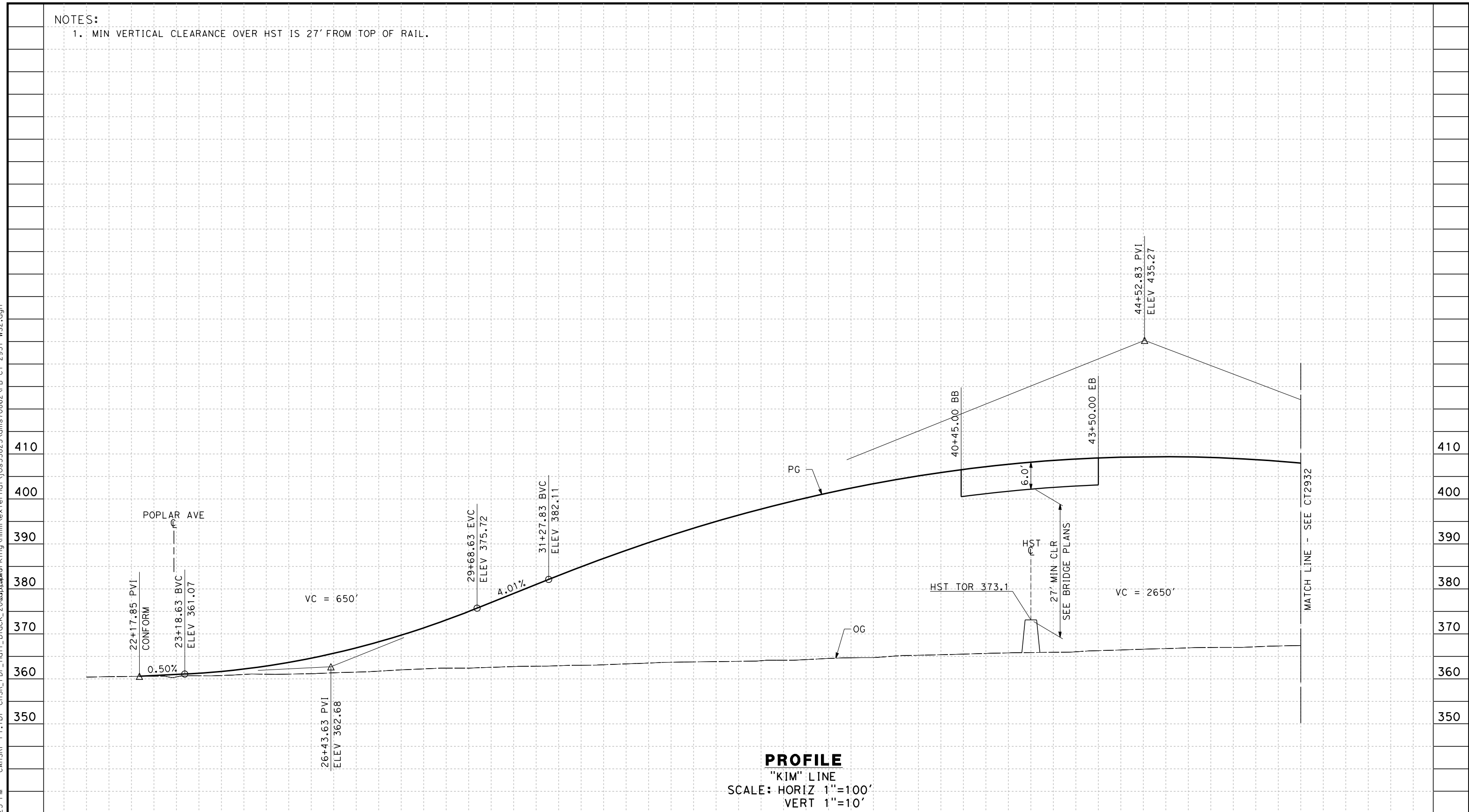




NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.

12/30/2013 4:17:25 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jose53823\dms70862\FB-CT-2931-WS2.dgn



**PROFILE**

"KIM" LINE  
SCALE: HORIZ 1"=100'  
VERT 1"=10'

STATION	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	TOTAL
Exc																												
Emb																												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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

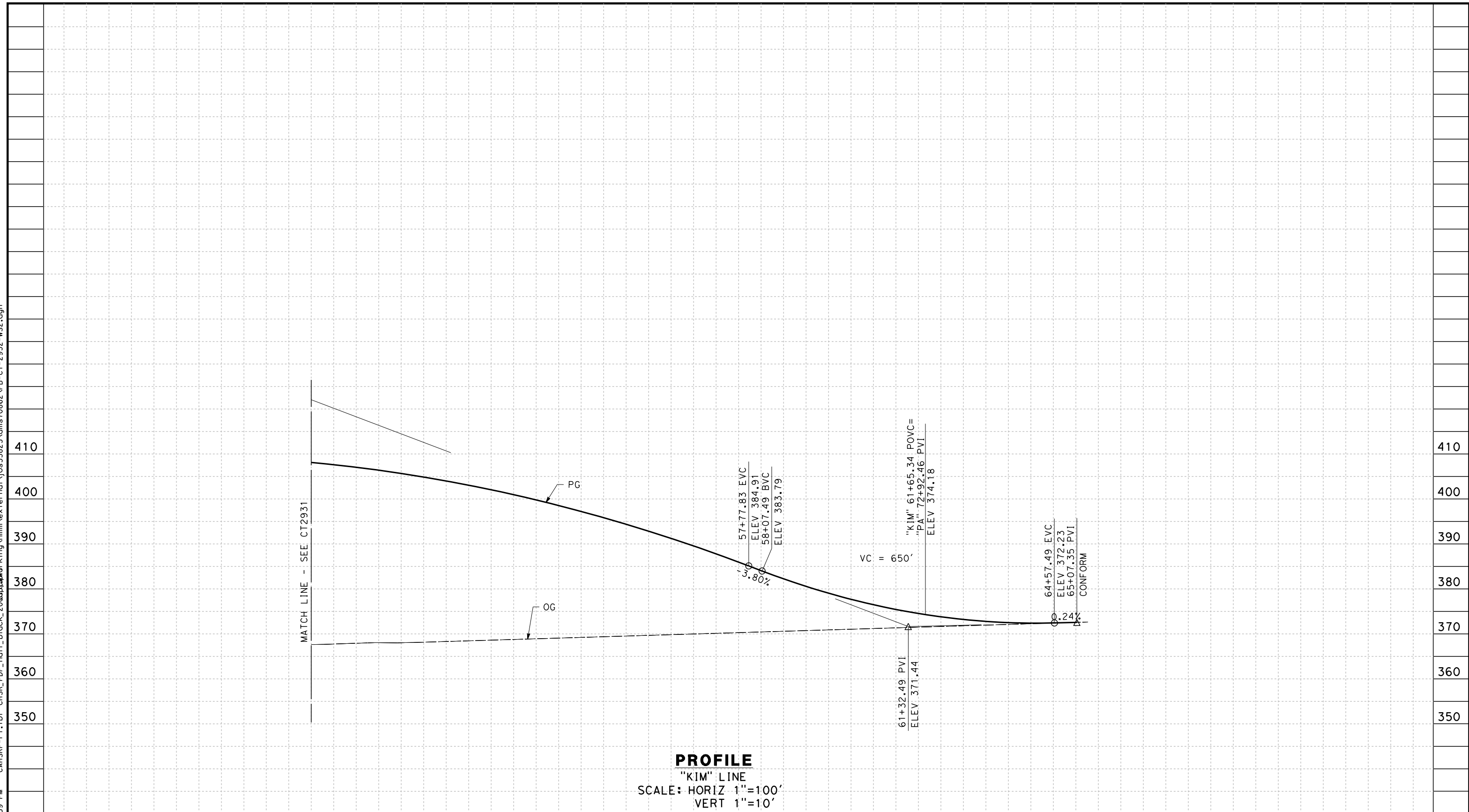


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION PROFILE  
KIMBERLINA RD

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT2931  
SCALE  
AS SHOWN  
SHEET NO.  
18 OF 60



12/30/2013 4:17:39 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\jos53823\dms70862\FB-CT-2932-WS2.dgn



**PROFILE**  
 "KIM" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	8	9	50	1	2	3	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	TOTAL
Exc																								
Emb																								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

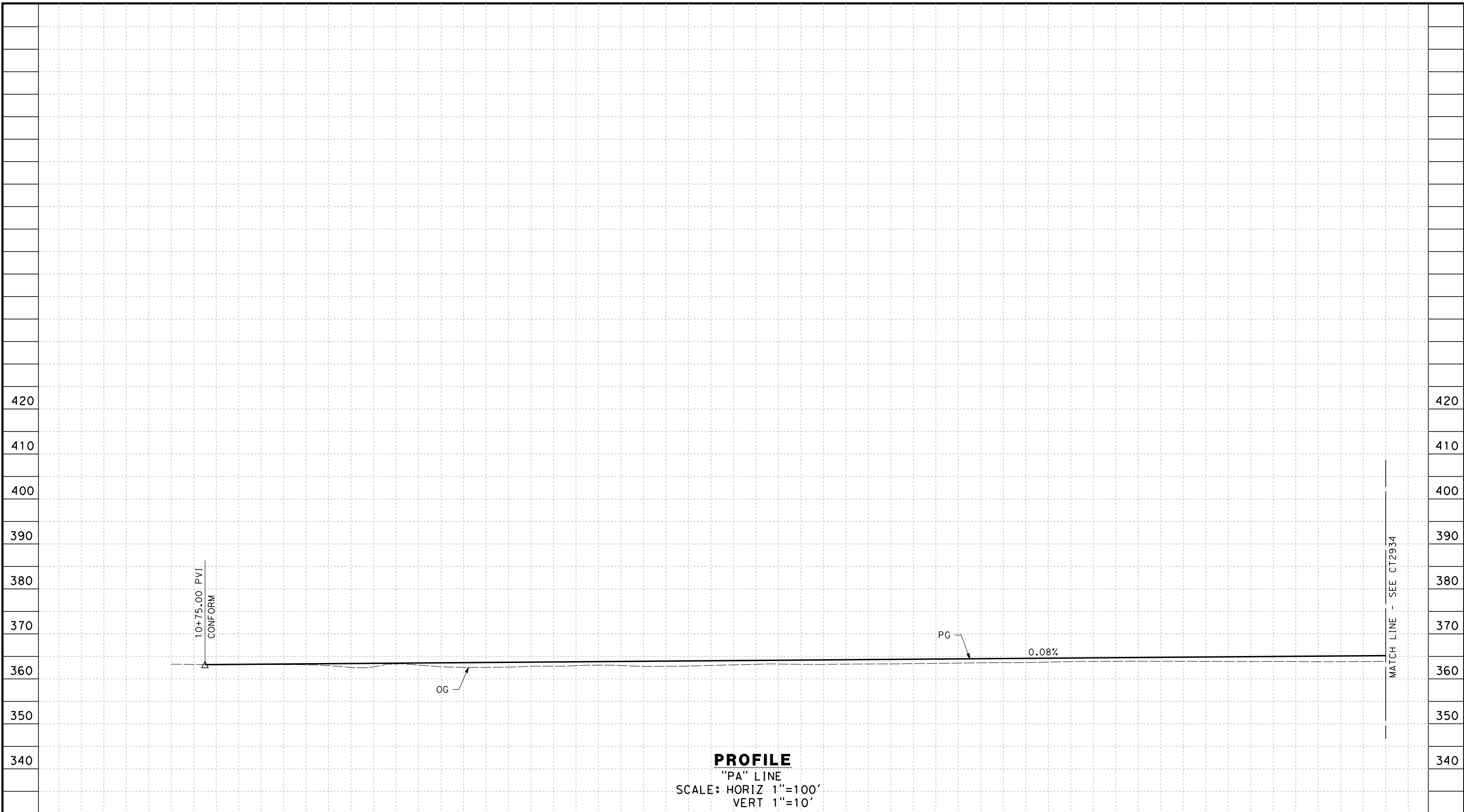


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 KIMBERLINA RD

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2932  
 SCALE  
AS SHOWN  
 SHEET NO.  
19 OF 60



12/30/2013 4:17:52 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\joss53823\dms70862\FB-CT-2933-WS2.dgn



**PROFILE**  
 "PA" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	TOTAL	
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

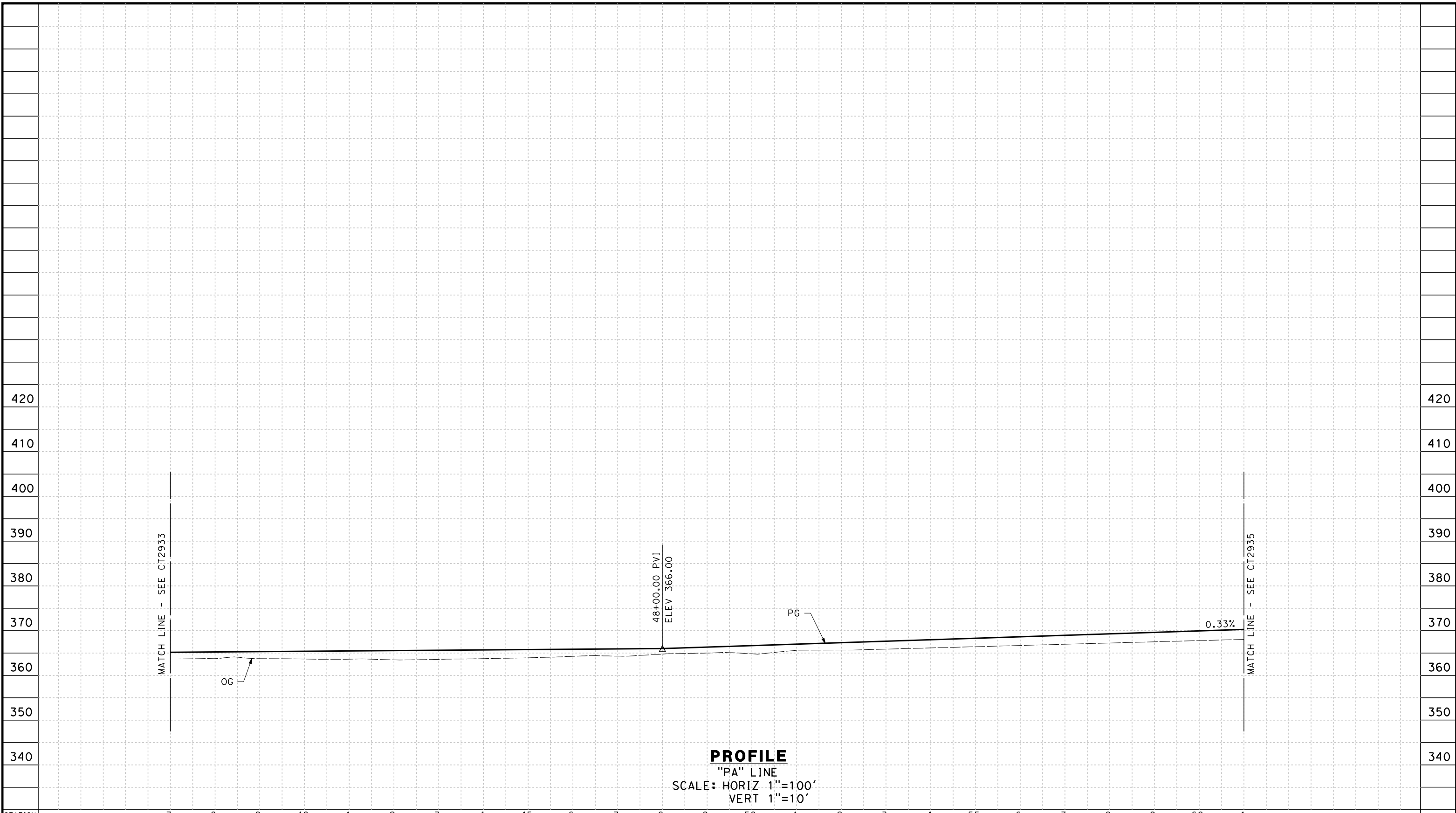


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 POPLAR AVE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2933  
 SCALE  
AS SHOWN  
 SHEET NO.  
20 OF 60



12/30/2013 4:18:05 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jms53823\dms70862\FB-CT-2934-WS2.dgn



**PROFILE**  
 "PA" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	3	4	55	6	7	8	9	60	1	TOTAL	
Exc																											
Emb																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

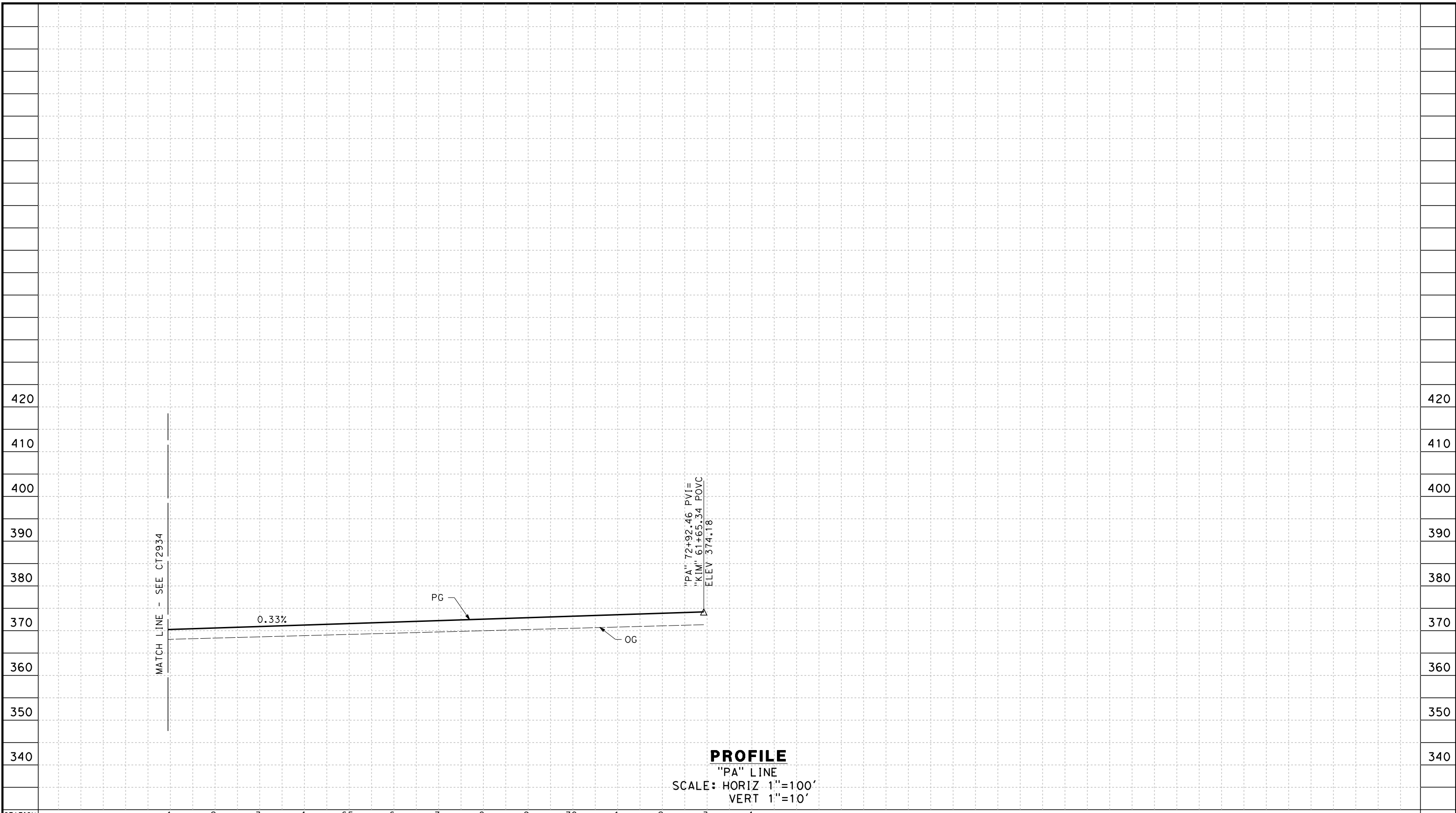


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 POPLAR AVE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2934  
 SCALE  
AS SHOWN  
 SHEET NO.  
21 OF 60



12/30/2013 4:18:17 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\joss53823\dms70862\FB-CT-2935-WS2.dgn



**PROFILE**  
 "PA" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	1	2	3	4	65	6	7	8	9	70	1	2	3	4	TOTAL
Exc															
Emb															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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



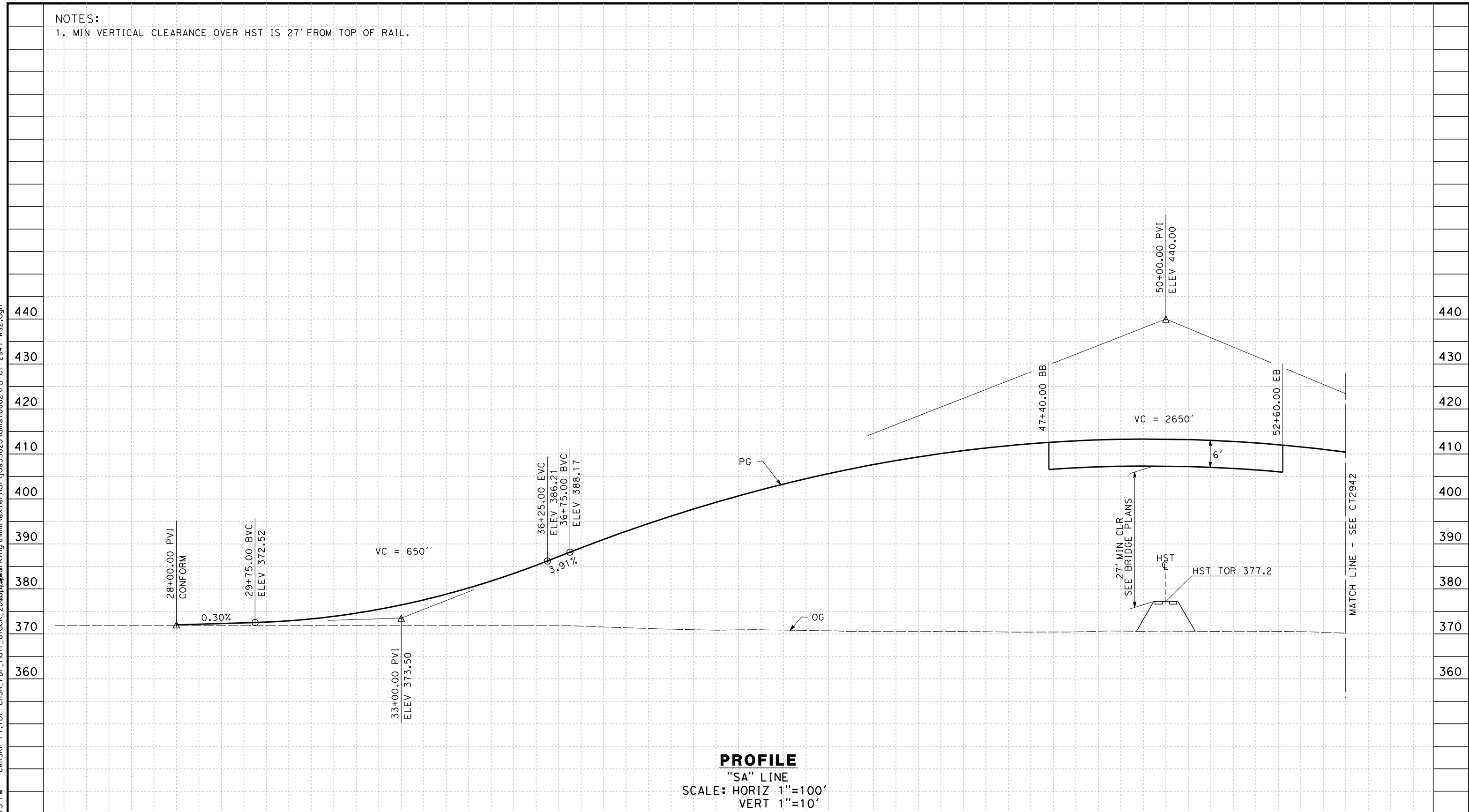
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 POPLAR AVE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2935  
 SCALE  
AS SHOWN  
 SHEET NO.  
22 OF 60



NOTES:  
 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.

12/30/2013 4:13 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\jos53823\dms70862\FB-CT-2941-WS2.dgn



**PROFILE**  
 "SA" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	3	4	55	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

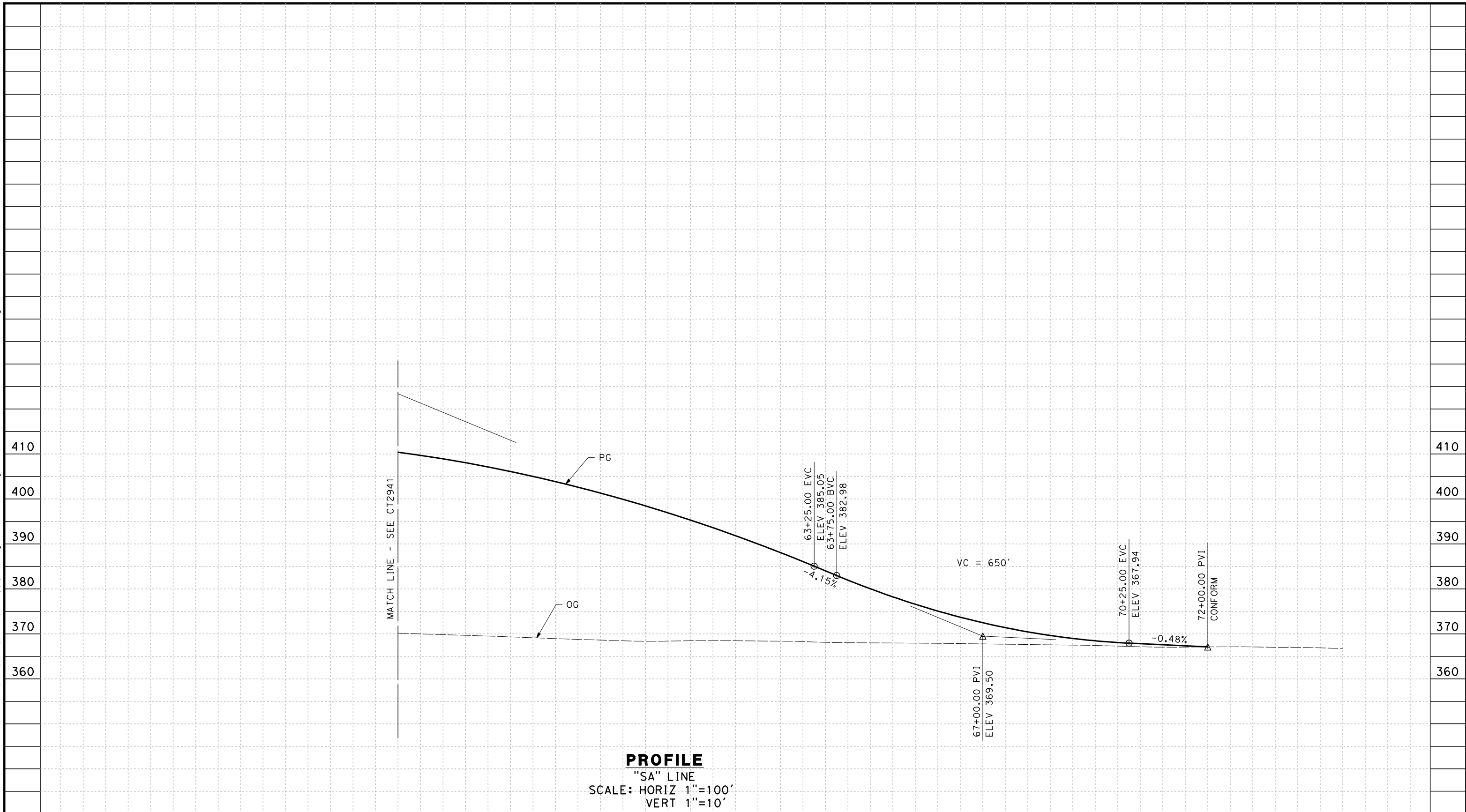


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 SHAFTER AVE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2941  
 SCALE  
AS SHOWN  
 SHEET NO.  
23 OF 60



12/30/2013 4:18:42 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jose53823\dms70862\FB-CT-2942-WS2.dgn



**PROFILE**  
 "SA" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	1	2	3	TOTAL	
Exc																						
Emb																						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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



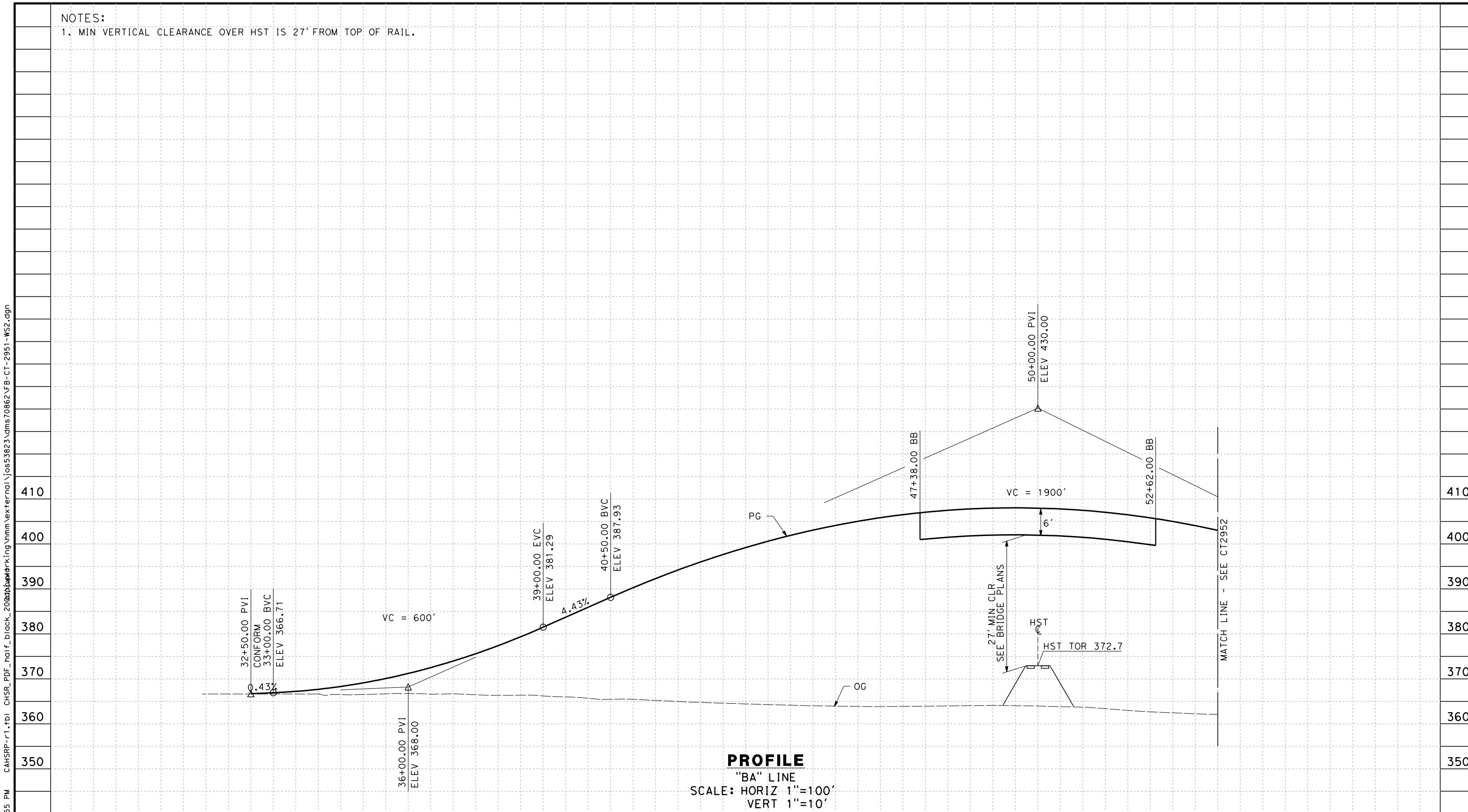
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 SHAFTER AVE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2942  
 SCALE  
AS SHOWN  
 SHEET NO.  
24 OF 60



NOTES:  
 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.

12/30/2013 4:18:55 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\jos53823\dms70862\FB-CT-2951-WS2.dgn



**PROFILE**  
 "BA" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	3	4	TOTAL
Exc																								
Emb																								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

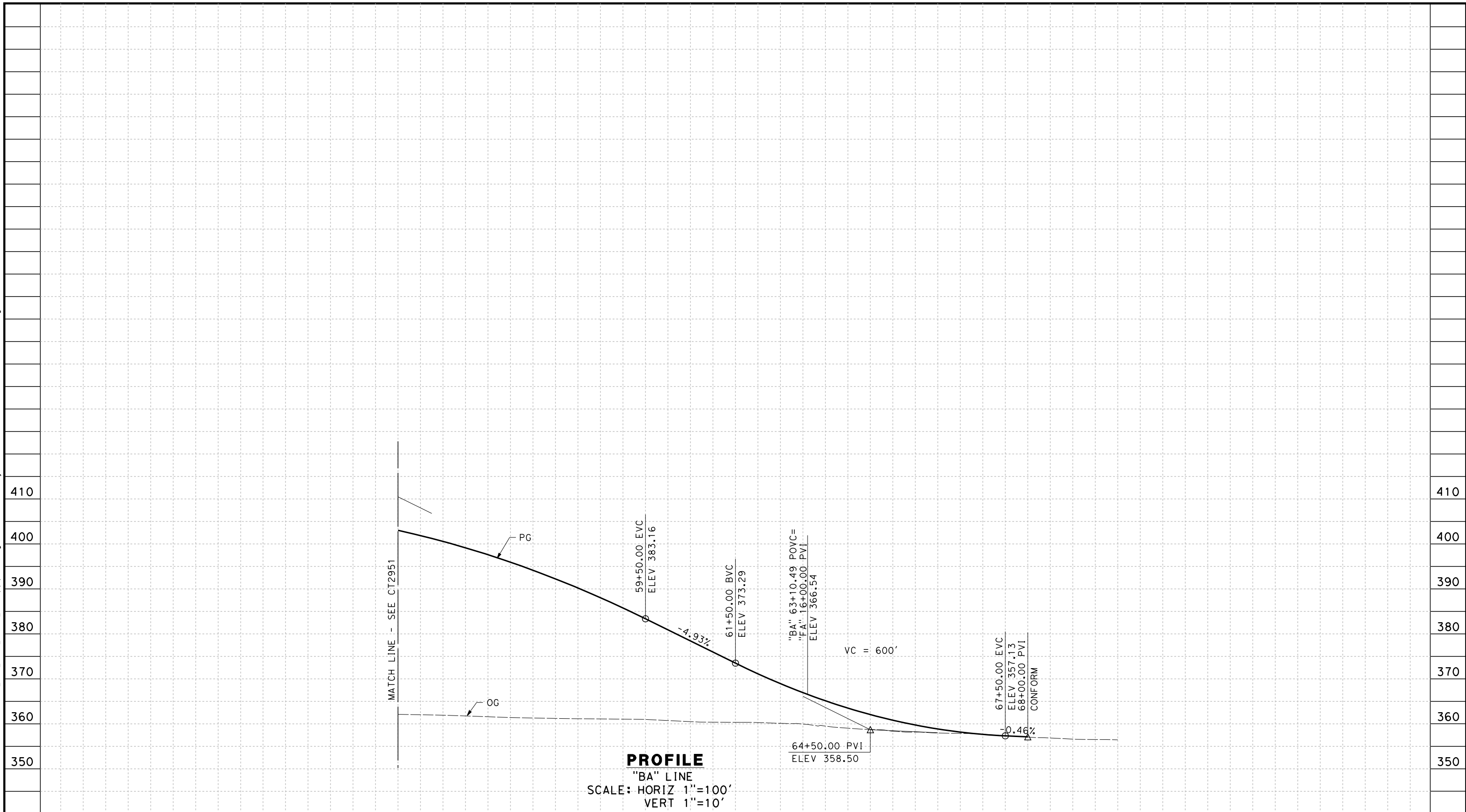


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 BEECH AVE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2951  
 SCALE  
AS SHOWN  
 SHEET NO.  
25 OF 60



12/30/2013 4:19:07 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jms53823\dms70862\FB-CT-2952-WS2.dgn



STATION	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	TOTAL
Exc																
Emb																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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

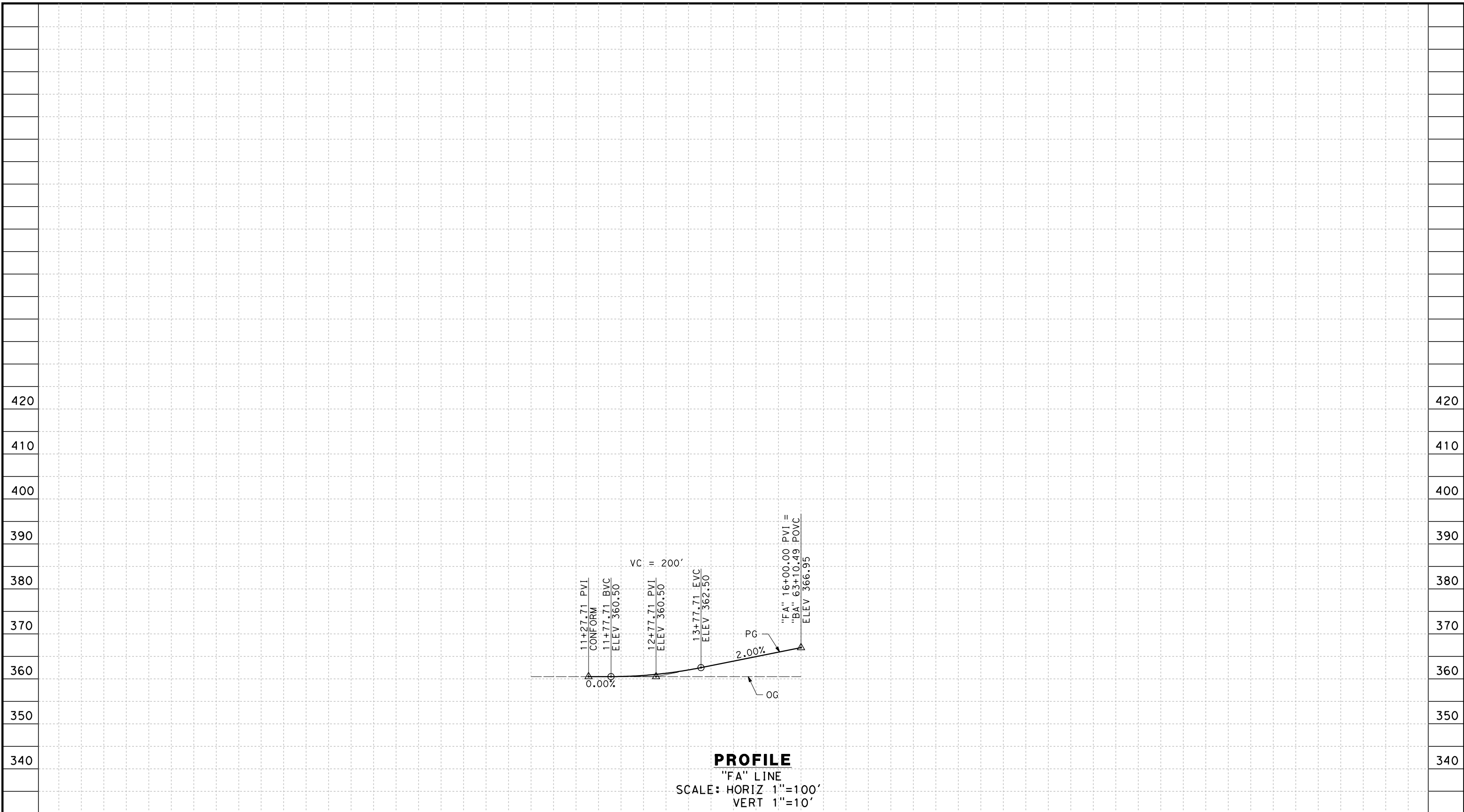


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION PROFILE  
BEECH AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT2952  
SCALE  
AS SHOWN  
SHEET NO.  
26 OF 60



12/30/2013 4:19:20 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jose53823\dms70862\FB-CT-2953-WS2.dgn



**PROFILE**  
 "FA" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	10	1	2	3	4	15	6	7	8	9	TOTAL
Exc											
Emb											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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



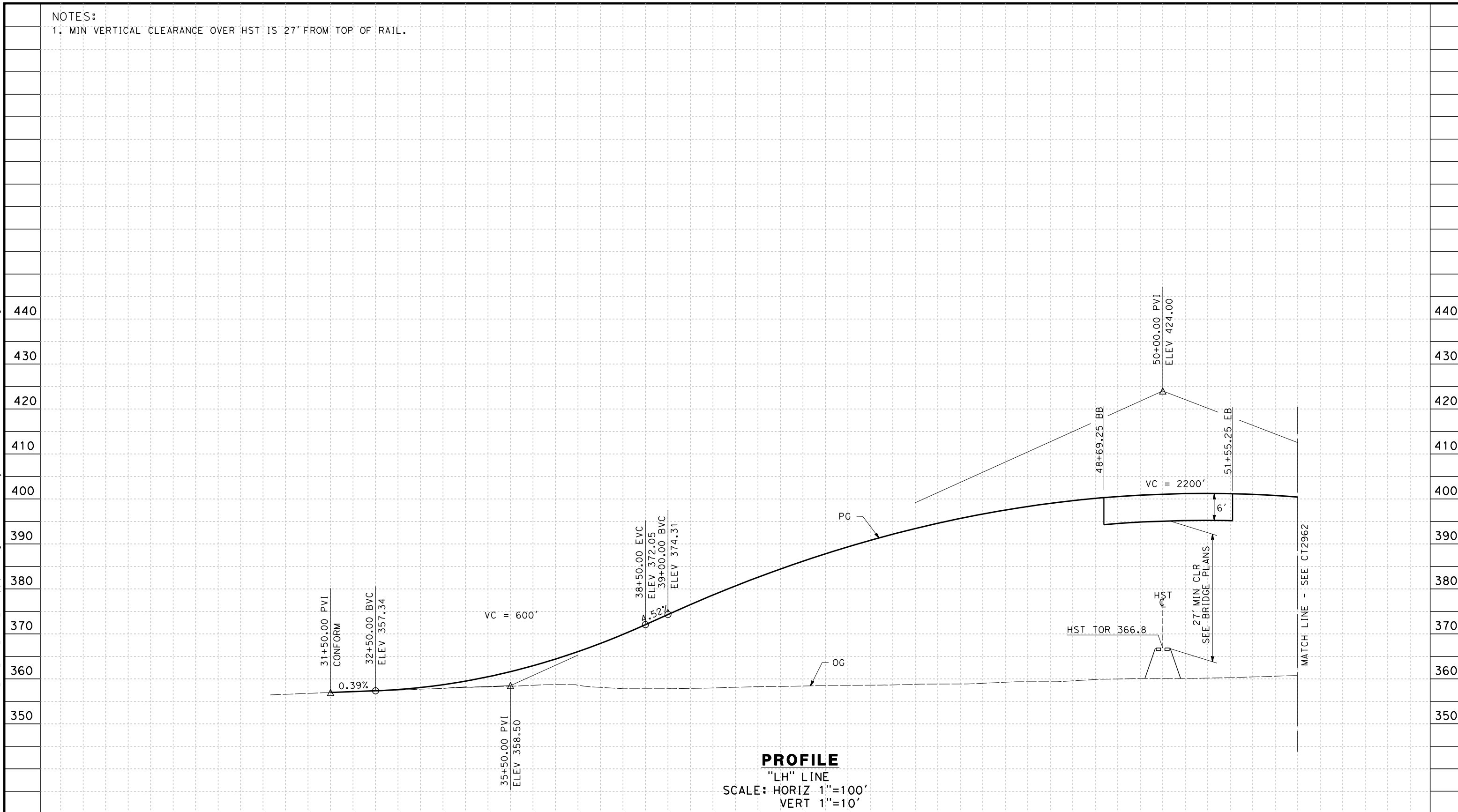
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 FRESNO AVE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2953  
 SCALE  
AS SHOWN  
 SHEET NO.  
27 OF 60



NOTES:  
 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.

12/30/2013 4:19:32 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jose53823\dms70862\FB-CT-2961-WS2.dgn



**PROFILE**

"LH" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	3	TOTAL
Exc																									
Emb																									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

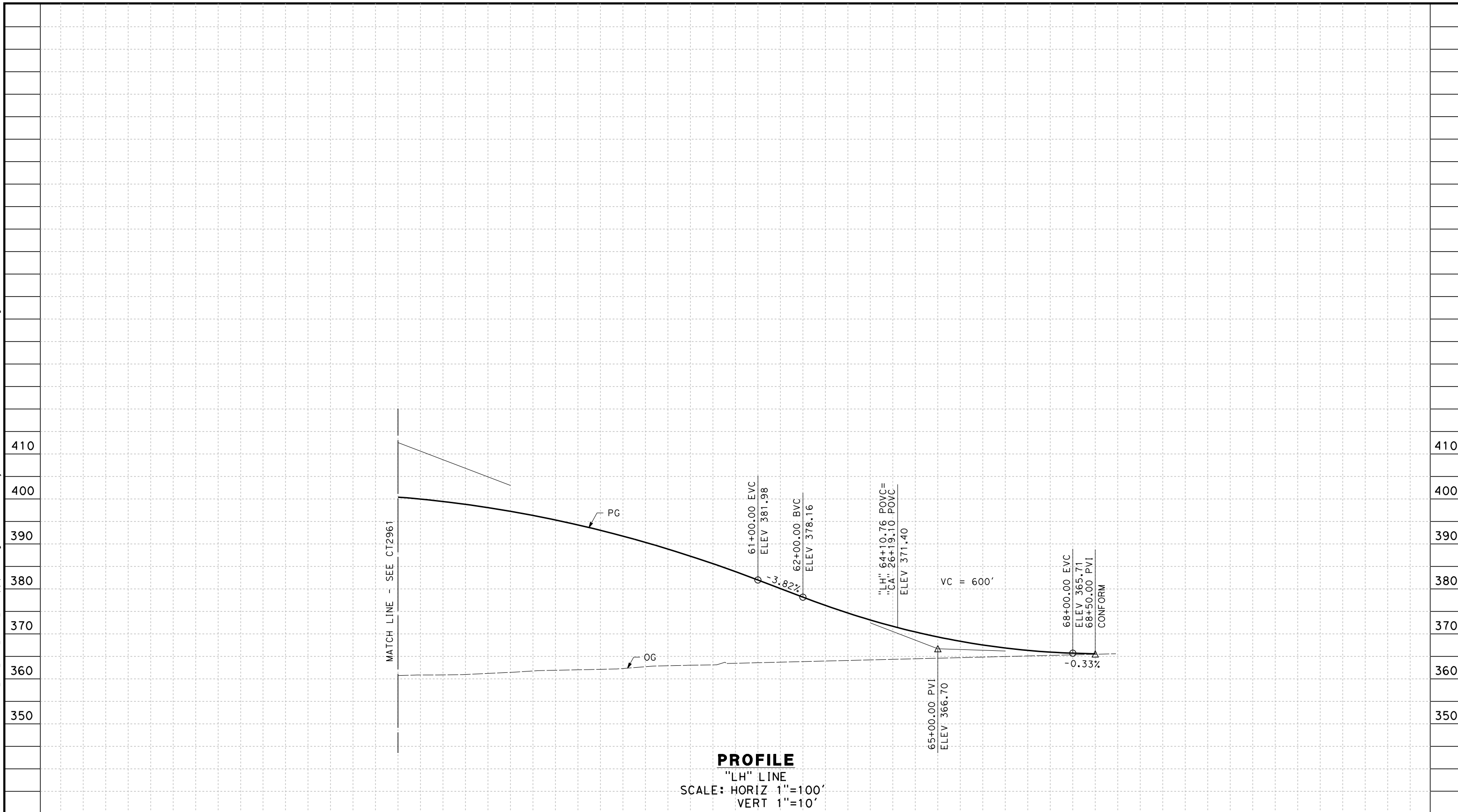


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 EAST LERDO HWY

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2961  
 SCALE  
AS SHOWN  
 SHEET NO.  
28 OF 60



12/30/2013 4:19:43 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jms53823\dms70862\FB-CT-2962-WS2.dgn



**PROFILE**  
 "LH" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	3	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	TOTAL
Exc																			
Emb																			

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 EAST LERDO HWY

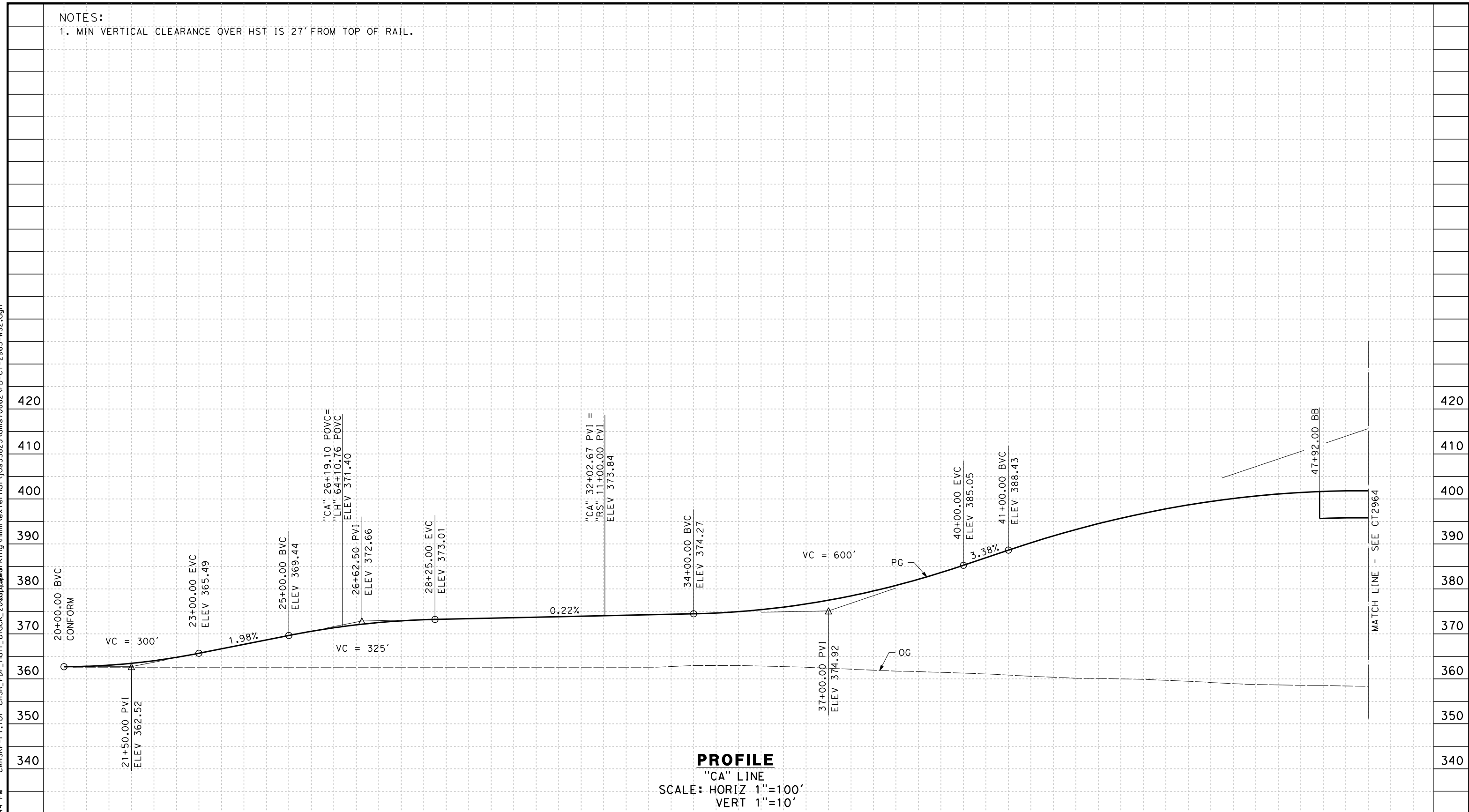
CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2962  
 SCALE  
AS SHOWN  
 SHEET NO.  
29 OF 60



12/30/2013 4:48:44 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\joss3823\dms70862\FB-CT-2963-WS2.dgn

**NOTES:**

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.



STATION	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	TOTAL	
Exc																																
Emb																																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

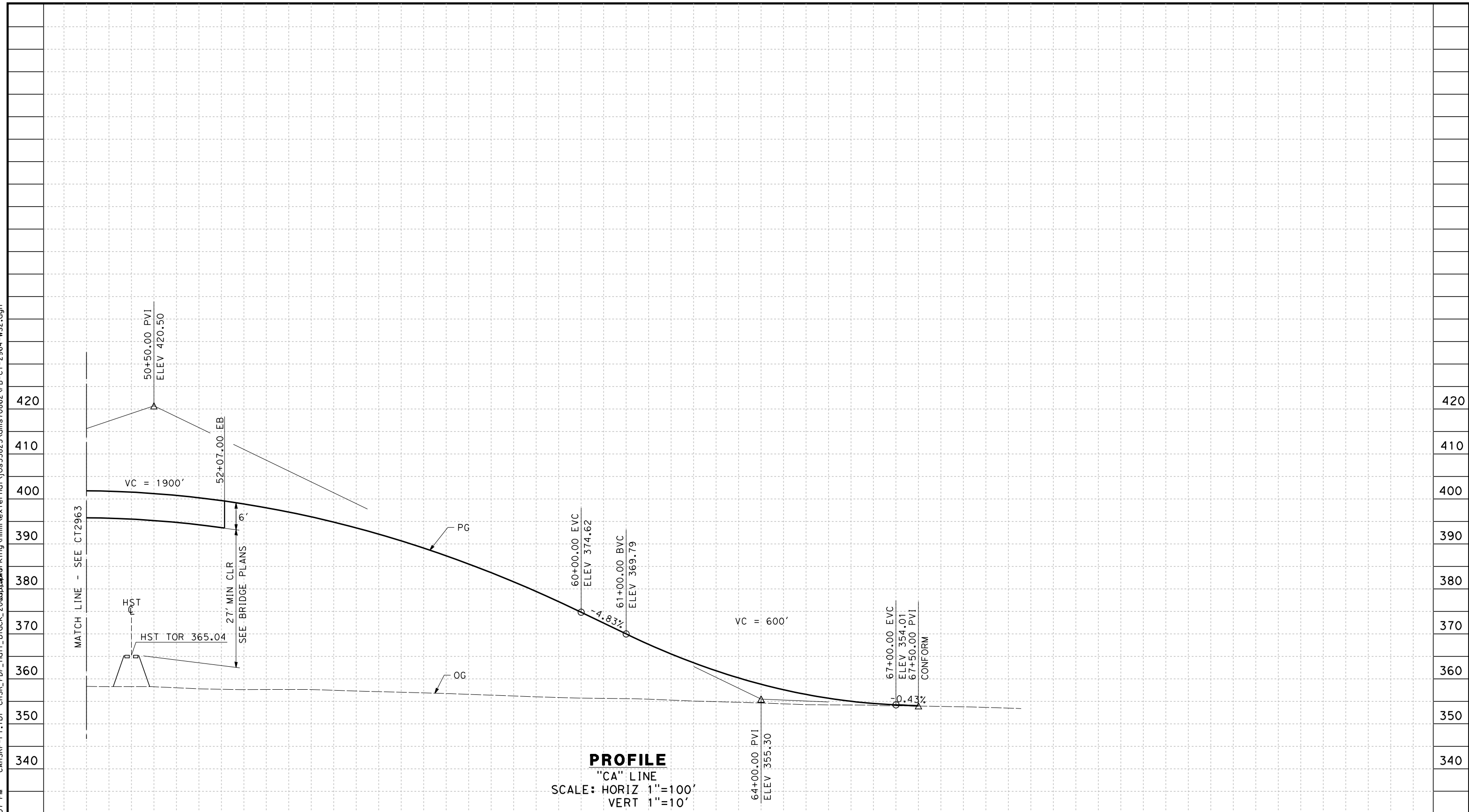


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 CHERRY AVE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2963  
 SCALE  
AS SHOWN  
 SHEET NO.  
30 OF 60



12/30/2013 4:20:07 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.ctb \\joss53823\dms70862\FB-CT-2964-WS2.dgn



**PROFILE**  
 "CA" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	9	50	1	2	3	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	TOTAL
Exc																							
Emb																							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

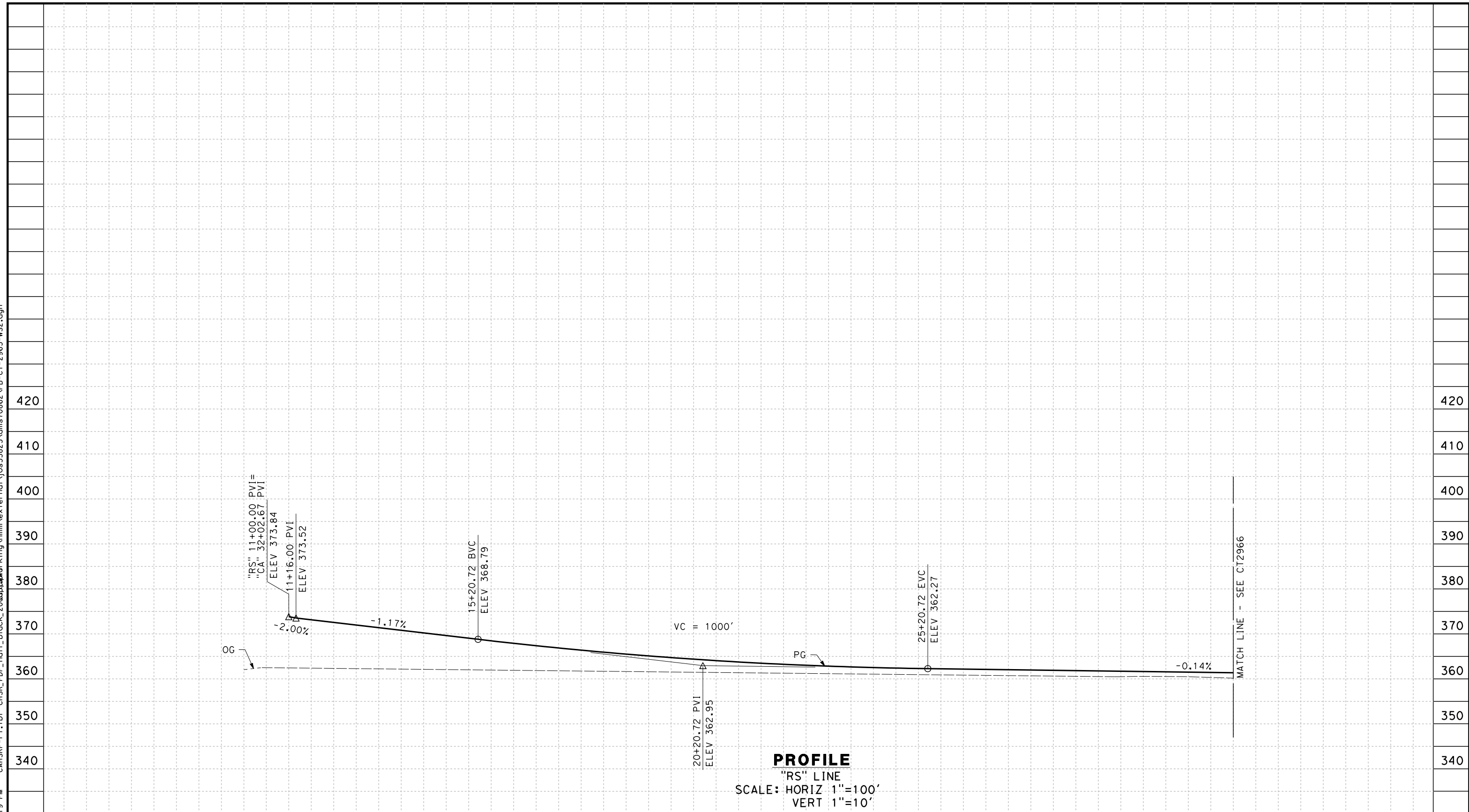


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 CHERRY AVE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2964  
 SCALE  
AS SHOWN  
 SHEET NO.  
31 OF 60



12/30/2013 4:20:19 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\joss53823\dms70862\FB-CT-2965-WS2.dgn



**PROFILE**  
 "RS" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	TOTAL	
Exc																									
Emb																									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

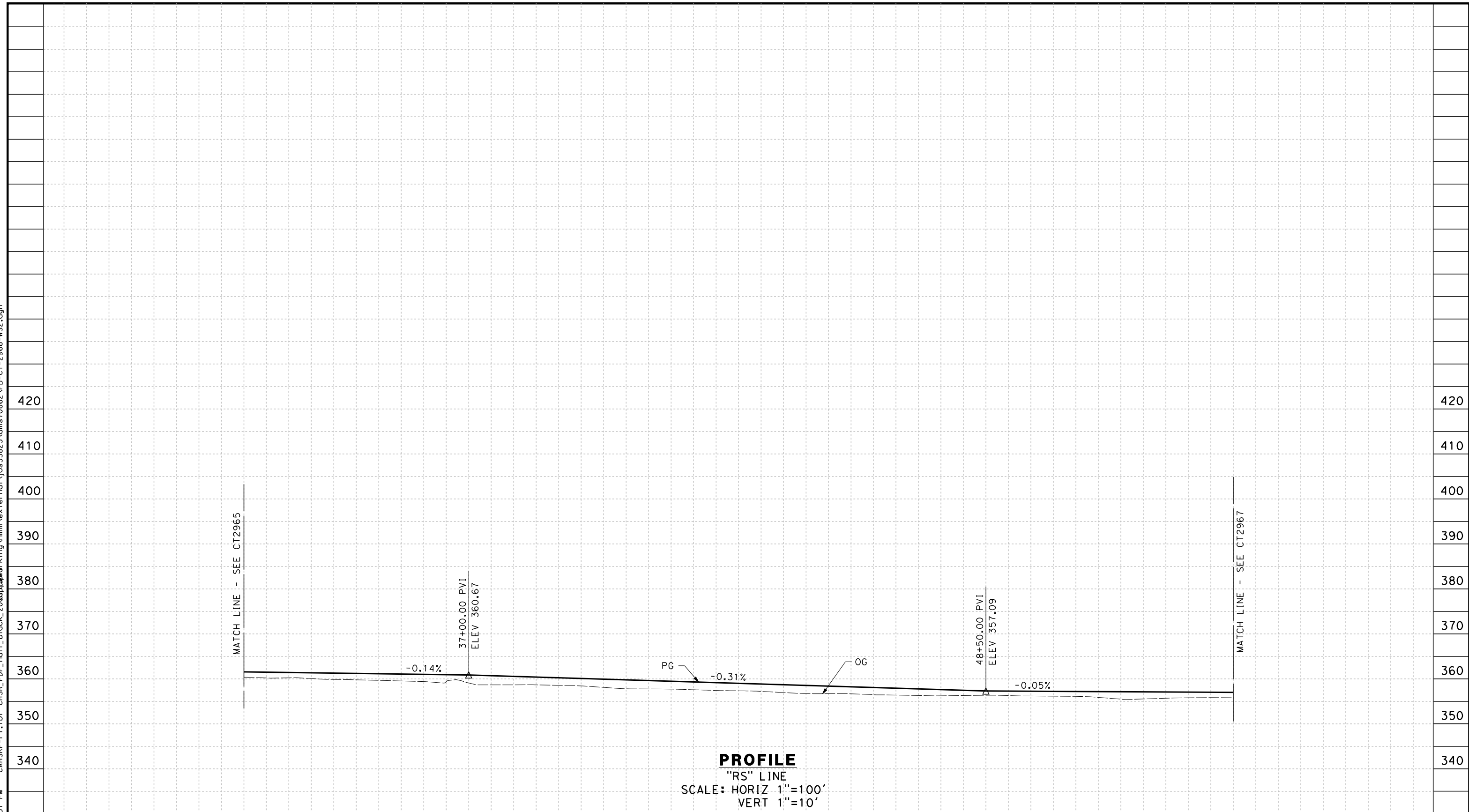


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 RIVERSIDE ST

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2965  
 SCALE  
AS SHOWN  
 SHEET NO.  
32 OF 60



12/30/2013 4:20:31 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jose53823\dms70862\FB-CT-2966-WS2.dgn



**PROFILE**  
 "RS" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	3	4	TOTAL
Exc																								
Emb																								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

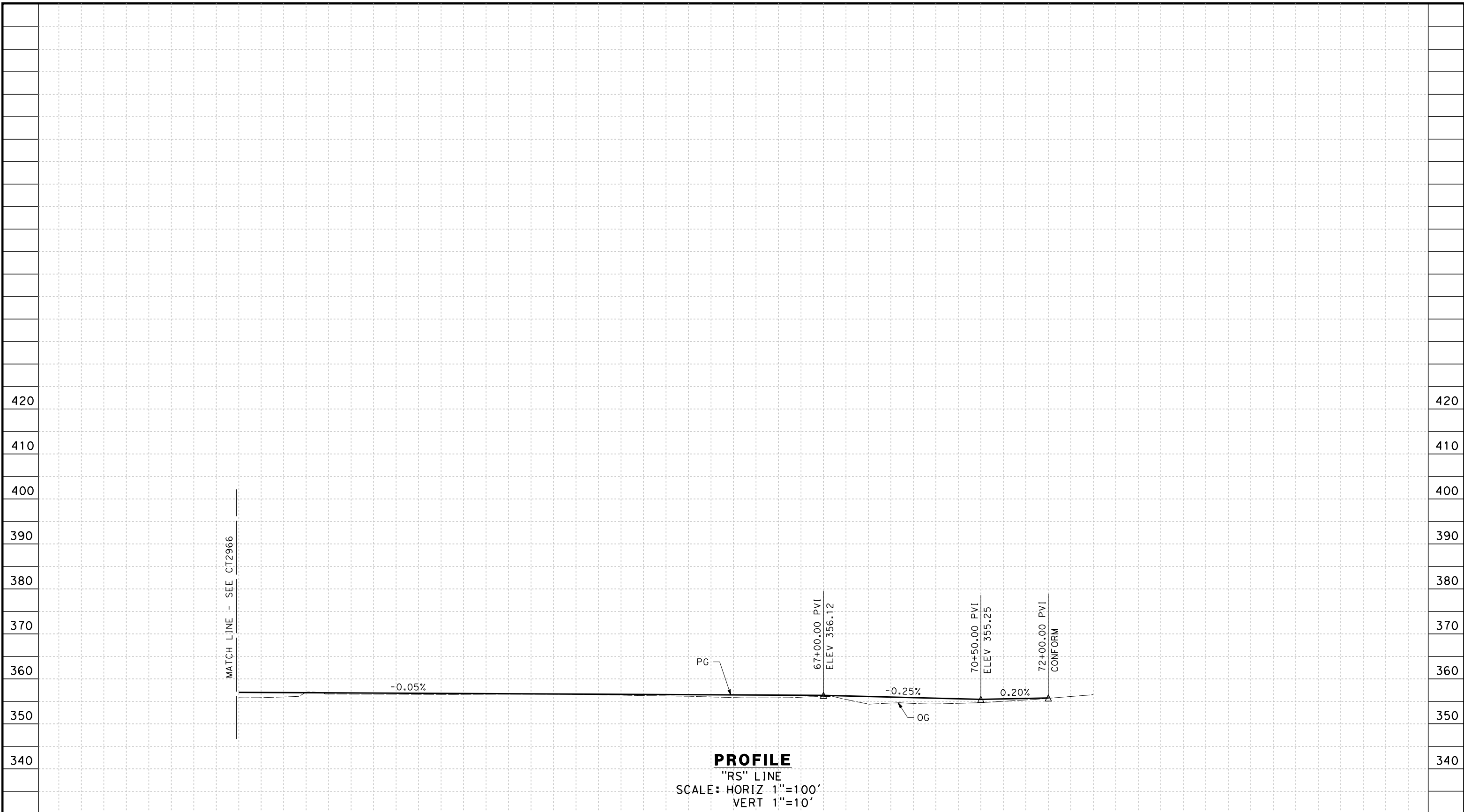


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 RIVERSIDE ST

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2966  
 SCALE  
AS SHOWN  
 SHEET NO.  
33 OF 60



12/30/2013 4:20:42 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jose53823\dms70862\FB-CT-2967-WS2.dgn



STATION	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	9	70	1	2	3	TOTAL	
Exc																						
Emb																						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 RIVERSIDE ST

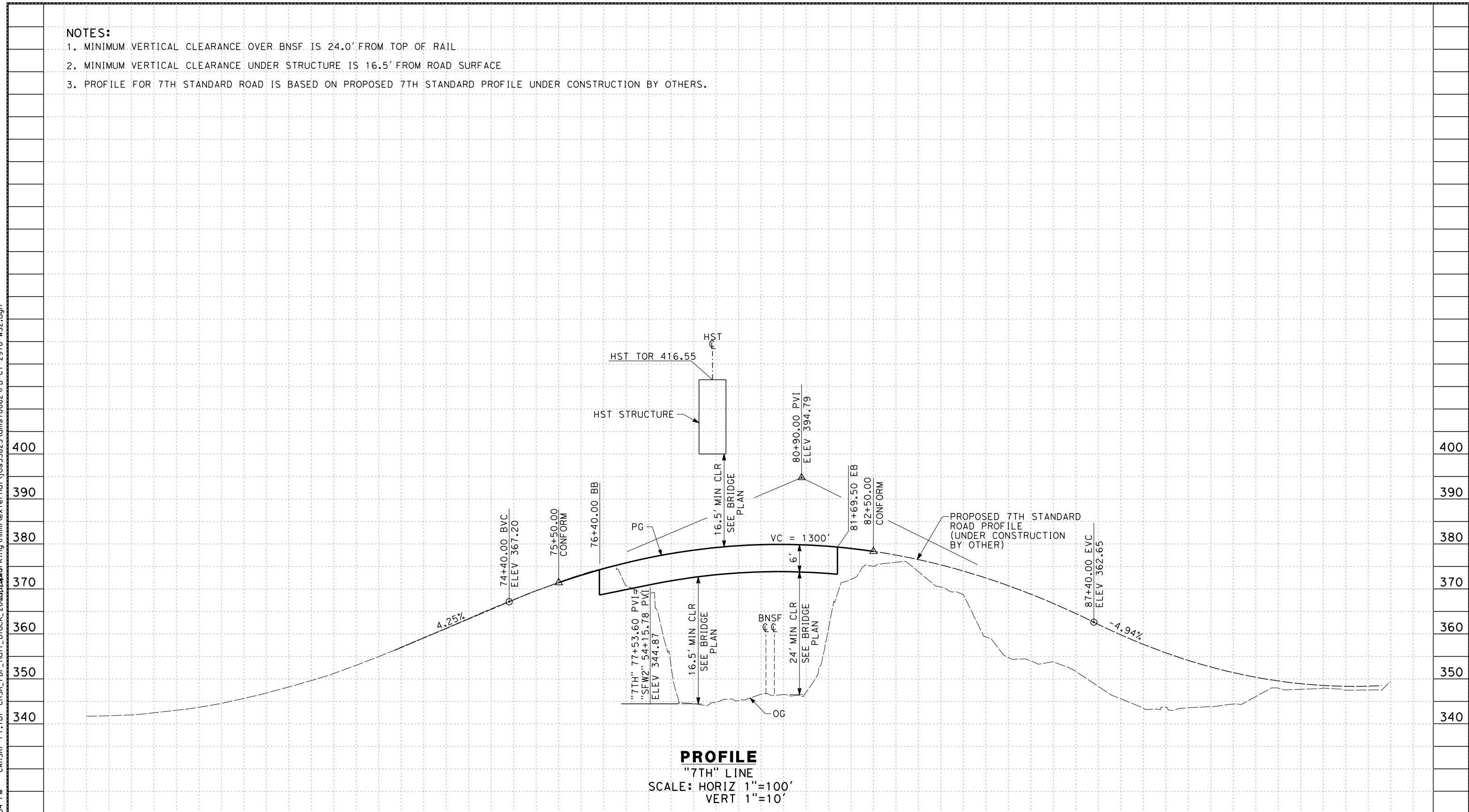
CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2967  
 SCALE  
AS SHOWN  
 SHEET NO.  
34 OF 60



**NOTES:**

1. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE UNDER STRUCTURE IS 16.5' FROM ROAD SURFACE
3. PROFILE FOR 7TH STANDARD ROAD IS BASED ON PROPOSED 7TH STANDARD PROFILE UNDER CONSTRUCTION BY OTHERS.

12/30/2013 4:20:54 PM CAHSR-r1.tbl CHSR PDF\_half\_black\_200dpi.ctb \\joss3823\dms70862\FB-CT-2970-WS2.dgn



**PROFILE**

"7TH" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	70	1	2	3	4	75	6	7	8	9	80	1	2	3	4	85	6	7	8	9	90	TOTAL	
Exc																							
Emb																							

DESIGNED BY	C. RAMIREZ
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	R. COFFIN
DATE	12/31/13

**RECORD SET 15%  
 DESIGN SUBMISSION**

**NOT FOR  
 CONSTRUCTION**



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

WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 7TH STANDARD ROAD

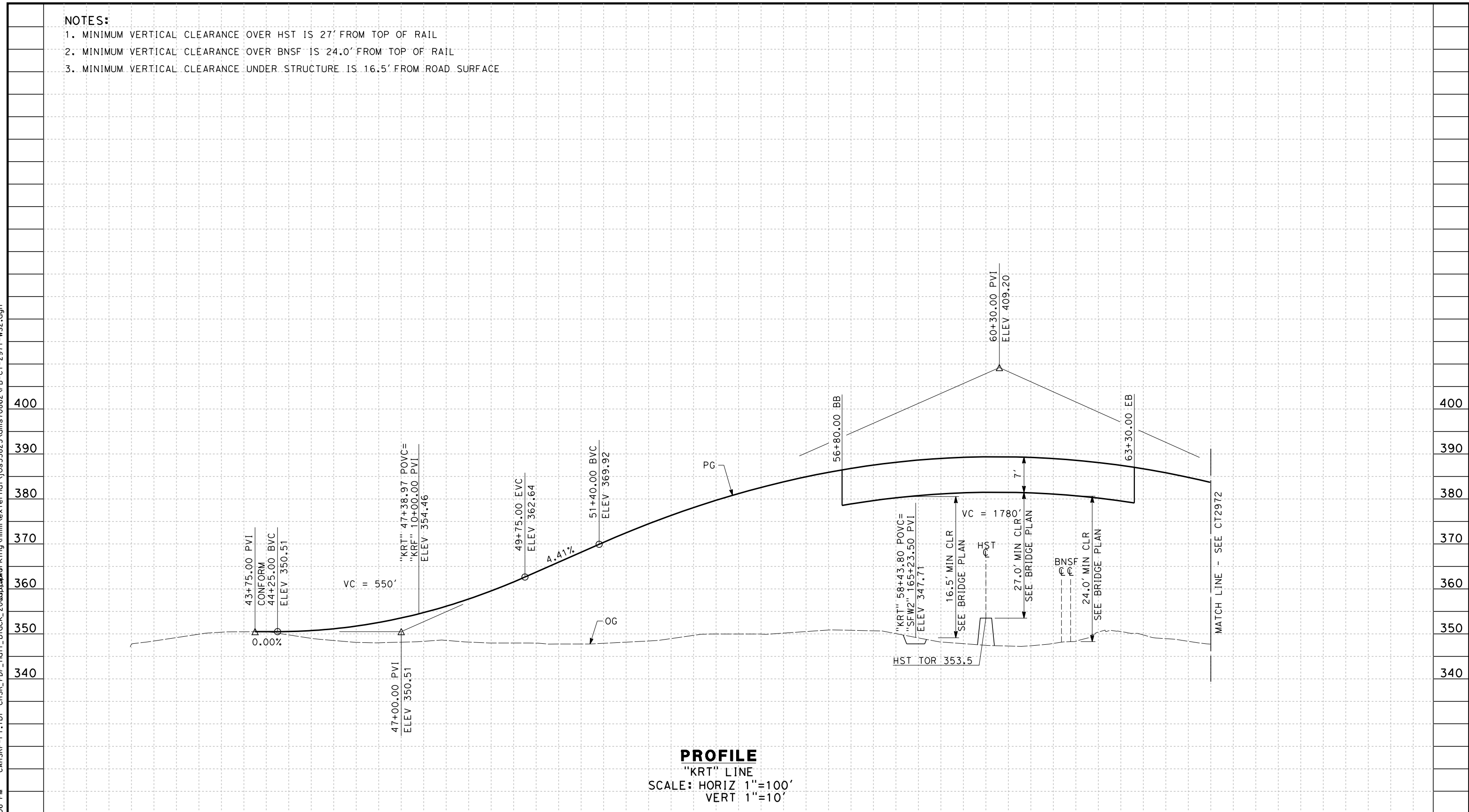
CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2970
SCALE	AS SHOWN
SHEET NO.	35 OF 60



**NOTES:**

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE UNDER STRUCTURE IS 16.5' FROM ROAD SURFACE

12/30/2013 4:21:06 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jos53823\dms70862\FB-CT-2971-WS2.dgn



STATION	40	1	2	3	4	45	6	7	8	9	50	1	2	3	4	55	6	7	8	9	60	1	2	3	4	65	TOTAL
Exc																											
Emb																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

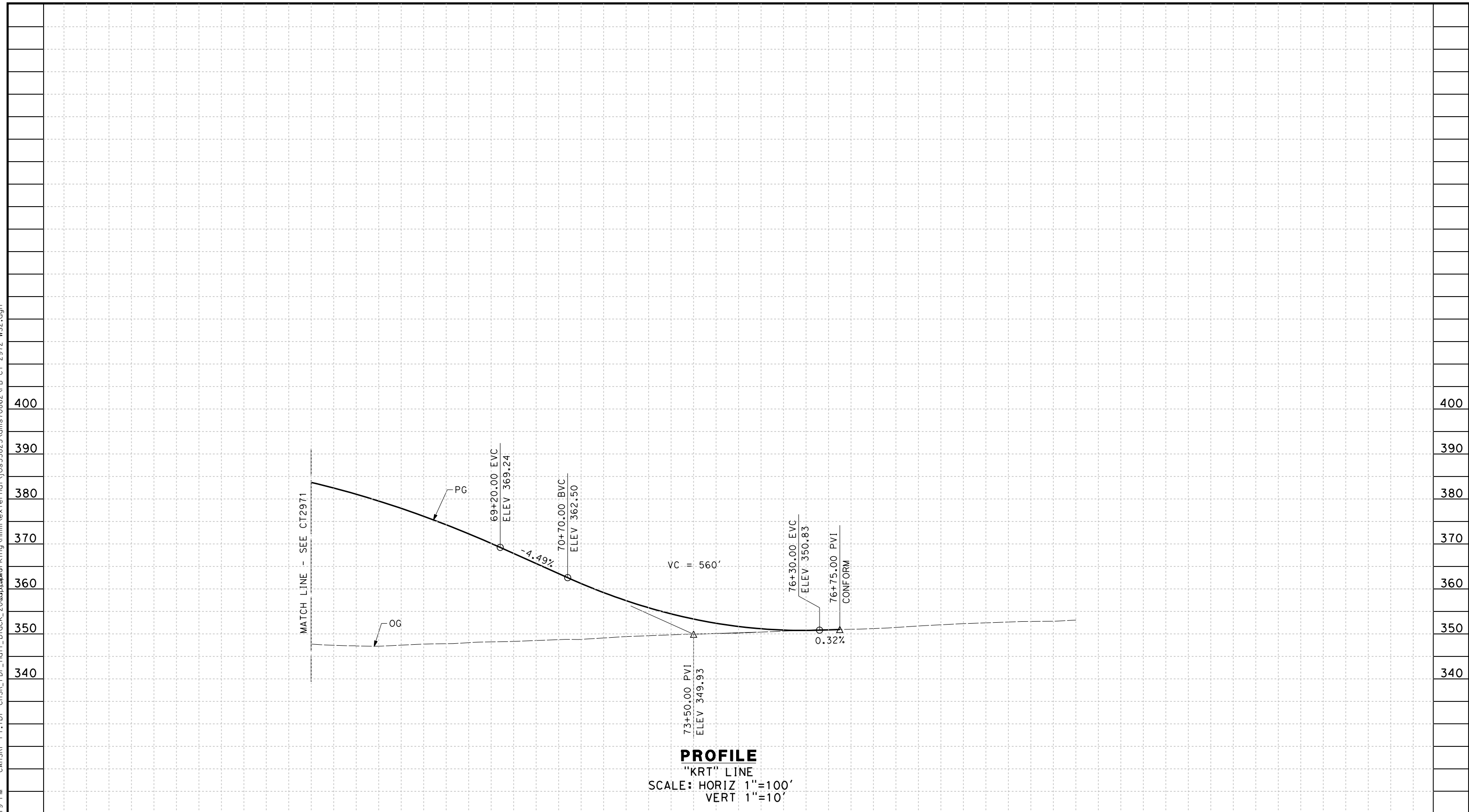


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 KRATZMEYER RD

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2971  
 SCALE  
AS SHOWN  
 SHEET NO.  
36 OF 60



12/30/2013 4:21:19 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jose53823\dms70862\FB-CT-2972-WS2.dgn



**PROFILE**  
 "KRT" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	65	6	7	8	9	70	1	2	3	4	75	6	7	8	9	80	1	2	TOTAL	
Exc																				
Emb																				

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

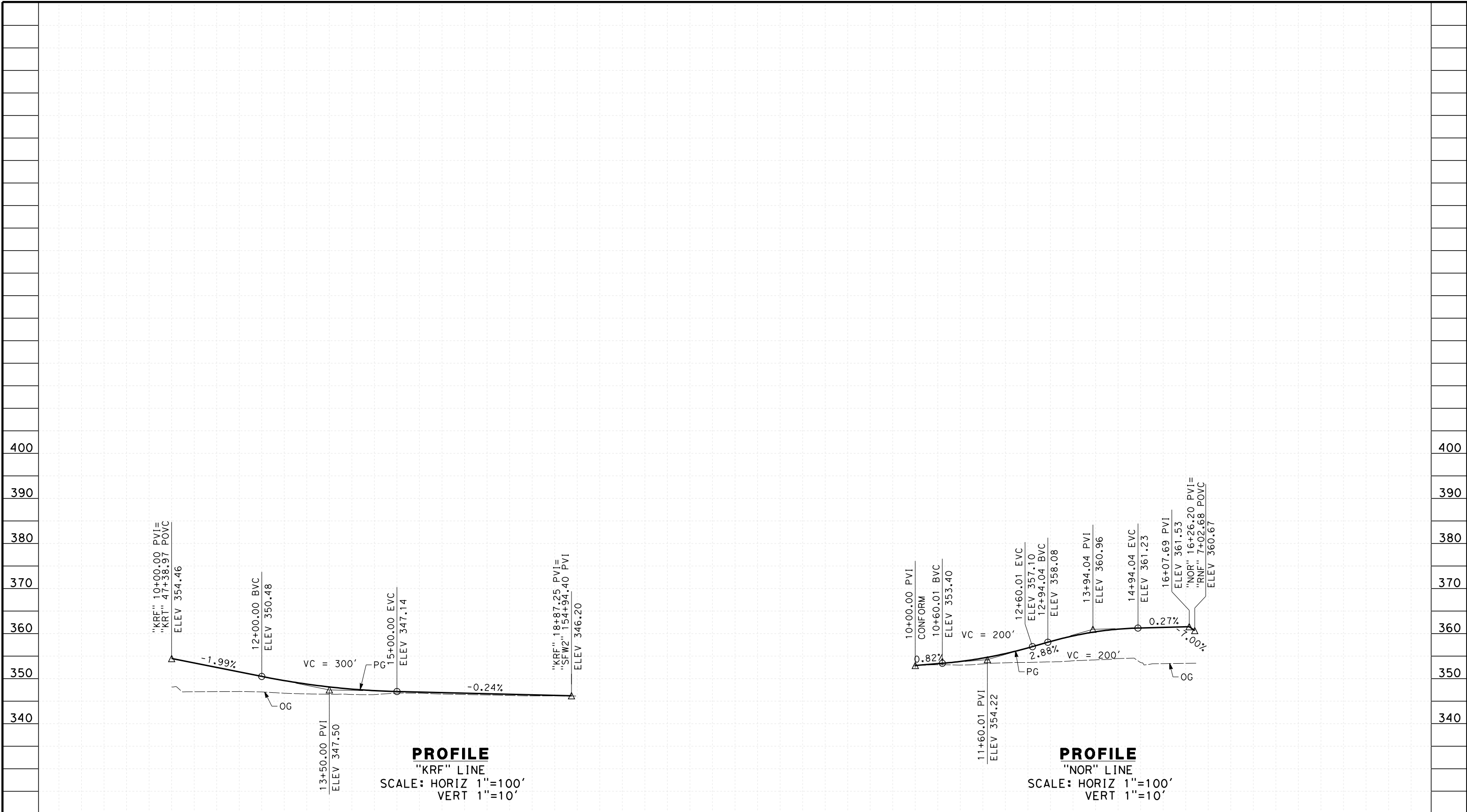


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 KRATZMEYER RD

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2972  
 SCALE  
AS SHOWN  
 SHEET NO.  
37 OF 60



12/30/2013 4:21:29 PM c:\pwworking\hmm\external\jos53823\dms70862\FB-CT-2973-WS2.dgn



STATION	10	1	2	3	4	15	6	7	8	9	10	1	2	3	4	15	6	7	TOTAL	
Exc																				
Emb																				

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
GRADE SEPARATION PROFILE  
KRATZMEYER CONNECTOR AND NORIEGA ROAD

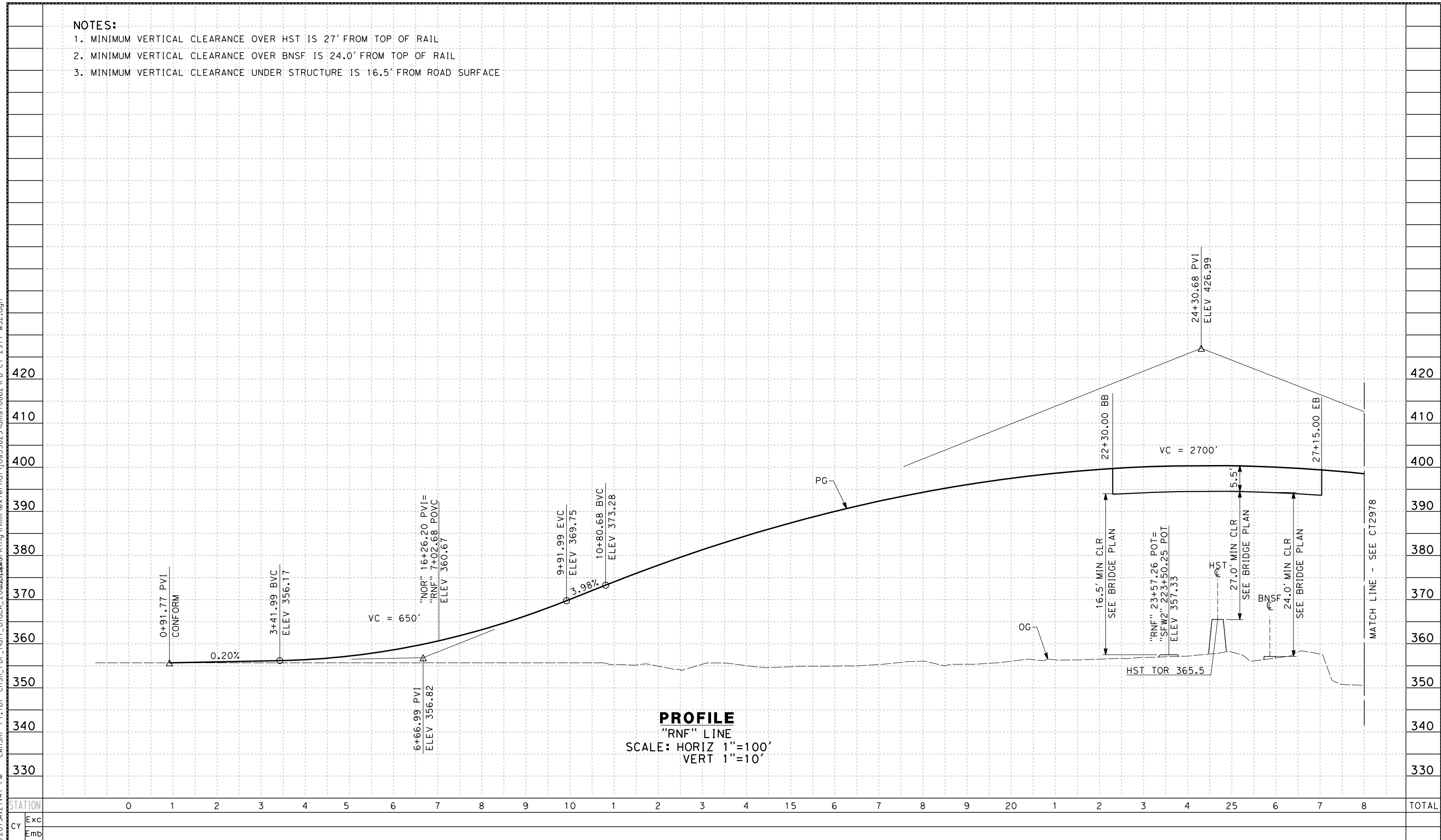
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT2973  
SCALE  
AS SHOWN  
SHEET NO.  
38 OF 60



**NOTES:**

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE UNDER STRUCTURE IS 16.5' FROM ROAD SURFACE

12/30/2013 4:21:41 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\joe53823\dms70862\FB-CT-2977-WS2.dgn



STATION	Exc	Emb
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
1		
2		
3		
4		
15		
6		
7		
8		
9		
20		
1		
2		
3		
4		
25		
6		
7		
8		
TOTAL		

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

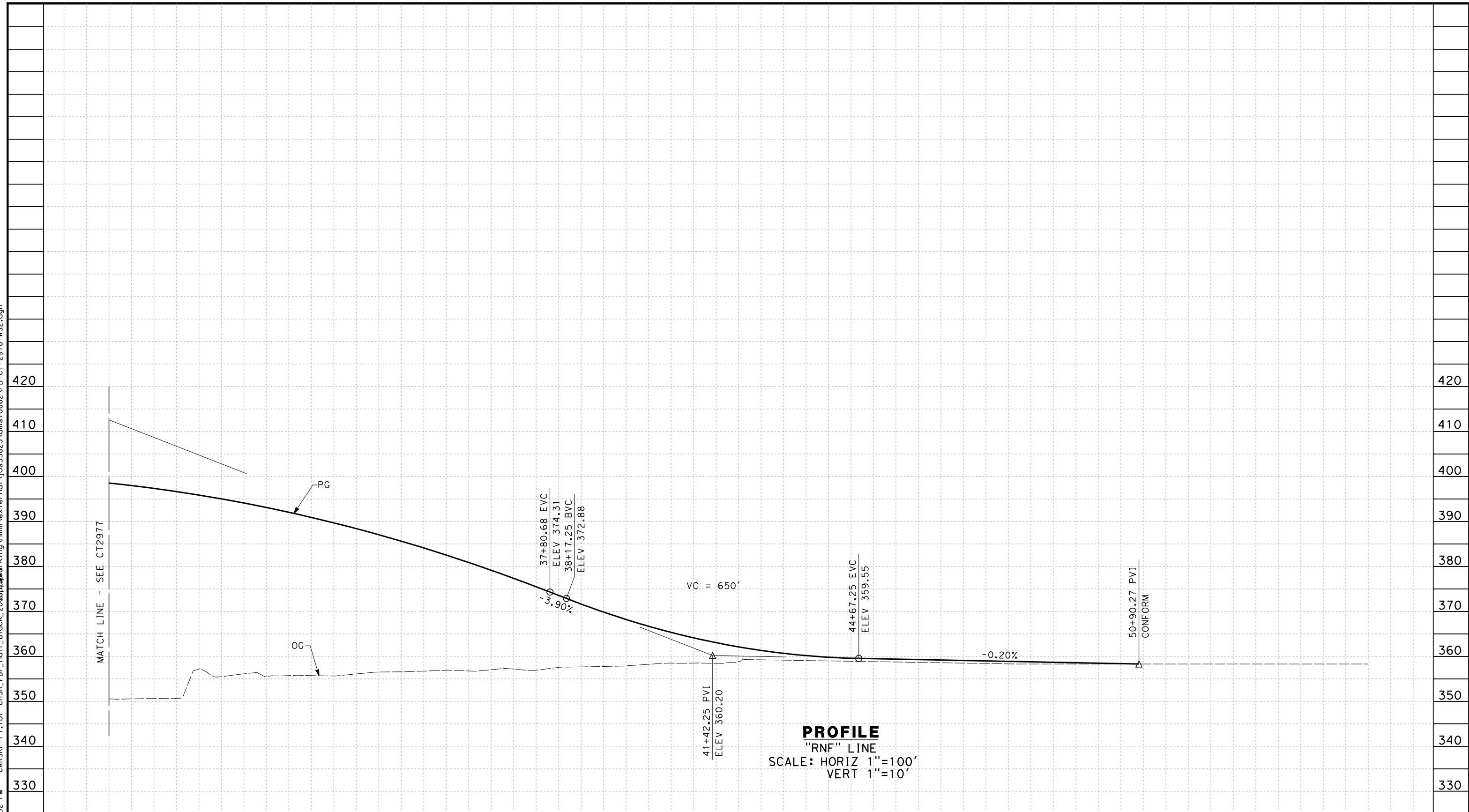


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 RENFRO RD

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2977  
 SCALE  
AS SHOWN  
 SHEET NO.  
39 OF 60



12/30/2013 4:21:52 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jms53823\dms70862\FB-CT-2978-WS2.dgn



<b>STATION</b>	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	<b>TOTAL</b>	
<b>Exc</b>																											
<b>Emb</b>																											

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

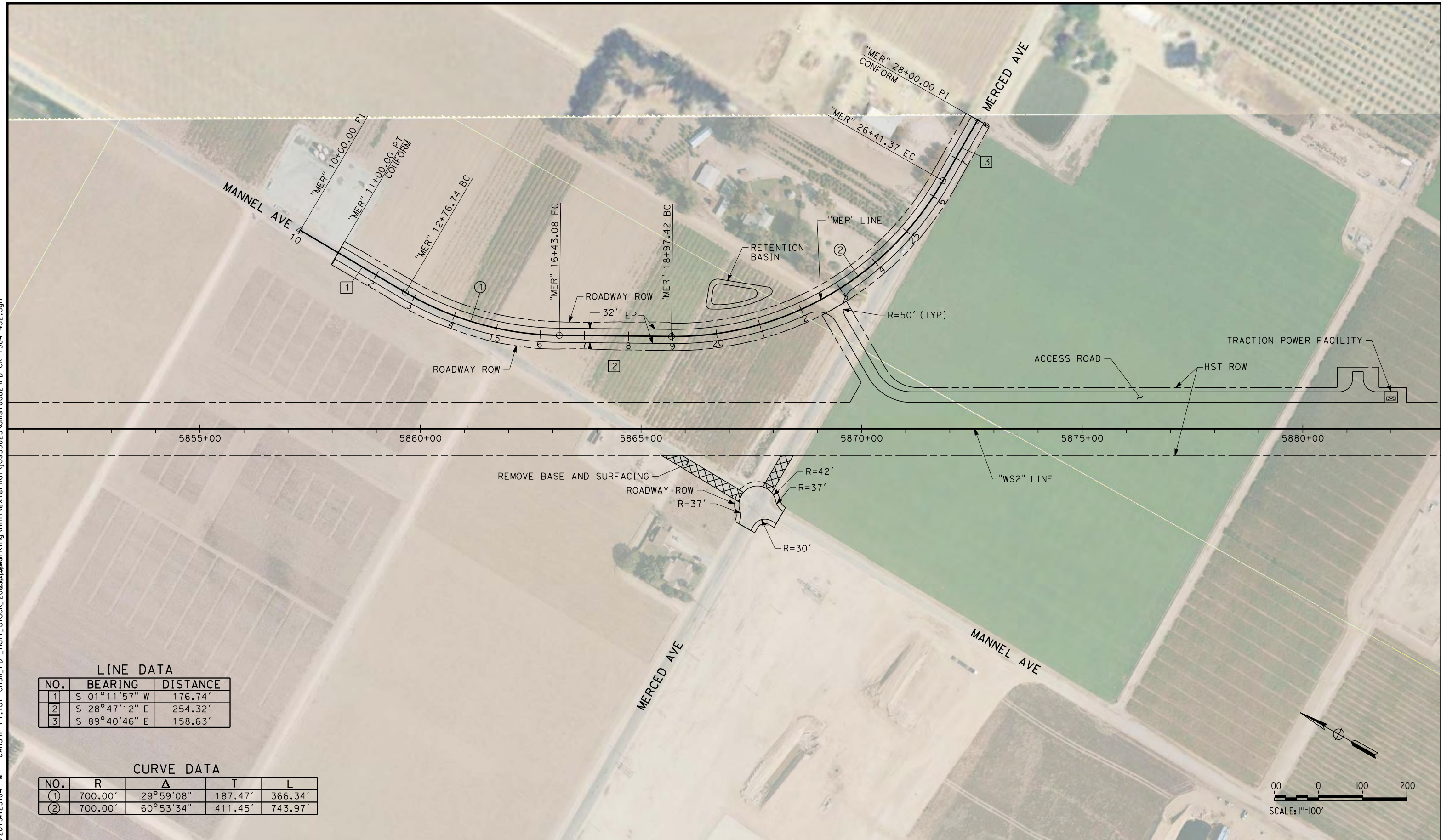


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 GRADE SEPARATION PROFILE  
 RENFRO RD

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2978  
 SCALE  
AS SHOWN  
 SHEET NO.  
40 OF 60



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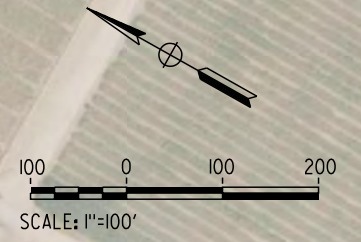


LINE DATA

NO.	BEARING	DISTANCE
1	S 01°11'57" W	176.74'
2	S 28°47'12" E	254.32'
3	S 89°40'46" E	158.63'

CURVE DATA

NO.	R	Δ	T	L
①	700.00'	29°59'08"	187.47'	366.34'
②	700.00'	60°53'34"	411.45'	743.97'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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

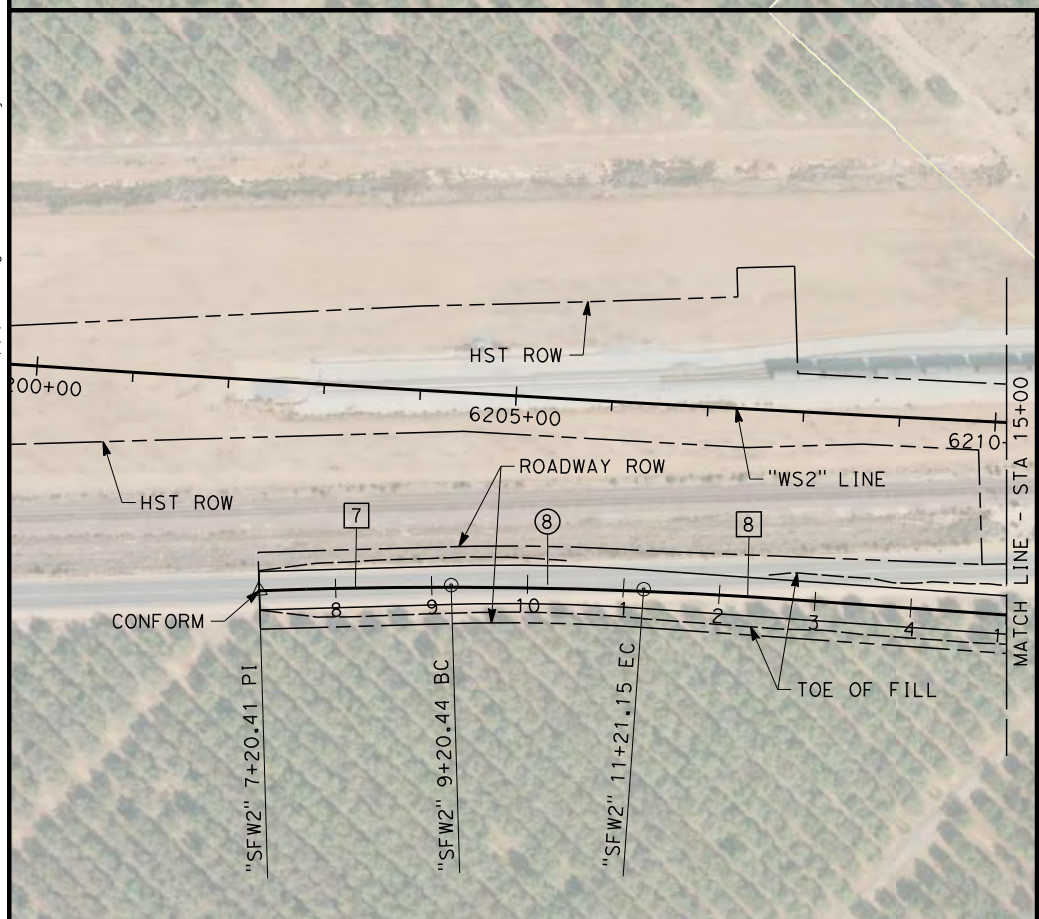
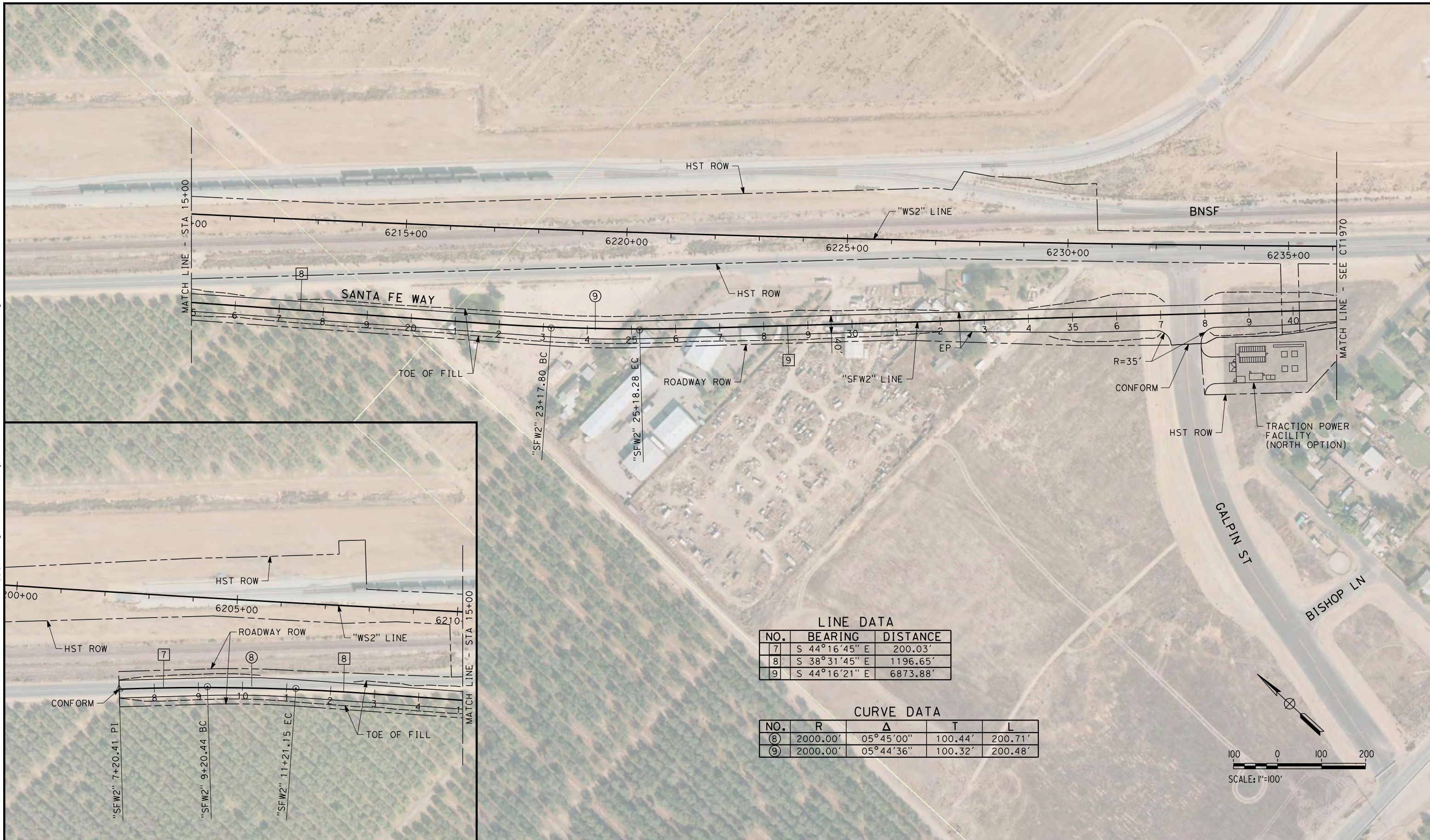


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
ROADWAY LAYOUT  
MANNEL AVE & MERCED AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CR1984  
SCALE  
AS SHOWN  
SHEET NO.  
41 OF 60



12/30/2013 4:24:19 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\joes53823\dms70862\FB-CR-1985-WS2.dgn

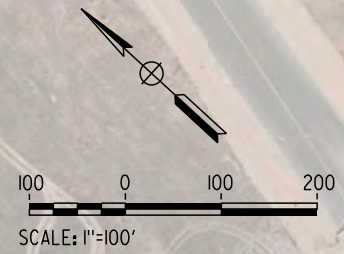


**LINE DATA**

NO.	BEARING	DISTANCE
7	S 44°16'45" E	200.03'
8	S 38°31'45" E	1196.65'
9	S 44°16'21" E	6873.88'

**CURVE DATA**

NO.	R	Δ	T	L
⑧	2000.00'	05°45'00"	100.44'	200.71'
⑨	2000.00'	05°44'36"	100.32'	200.48'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

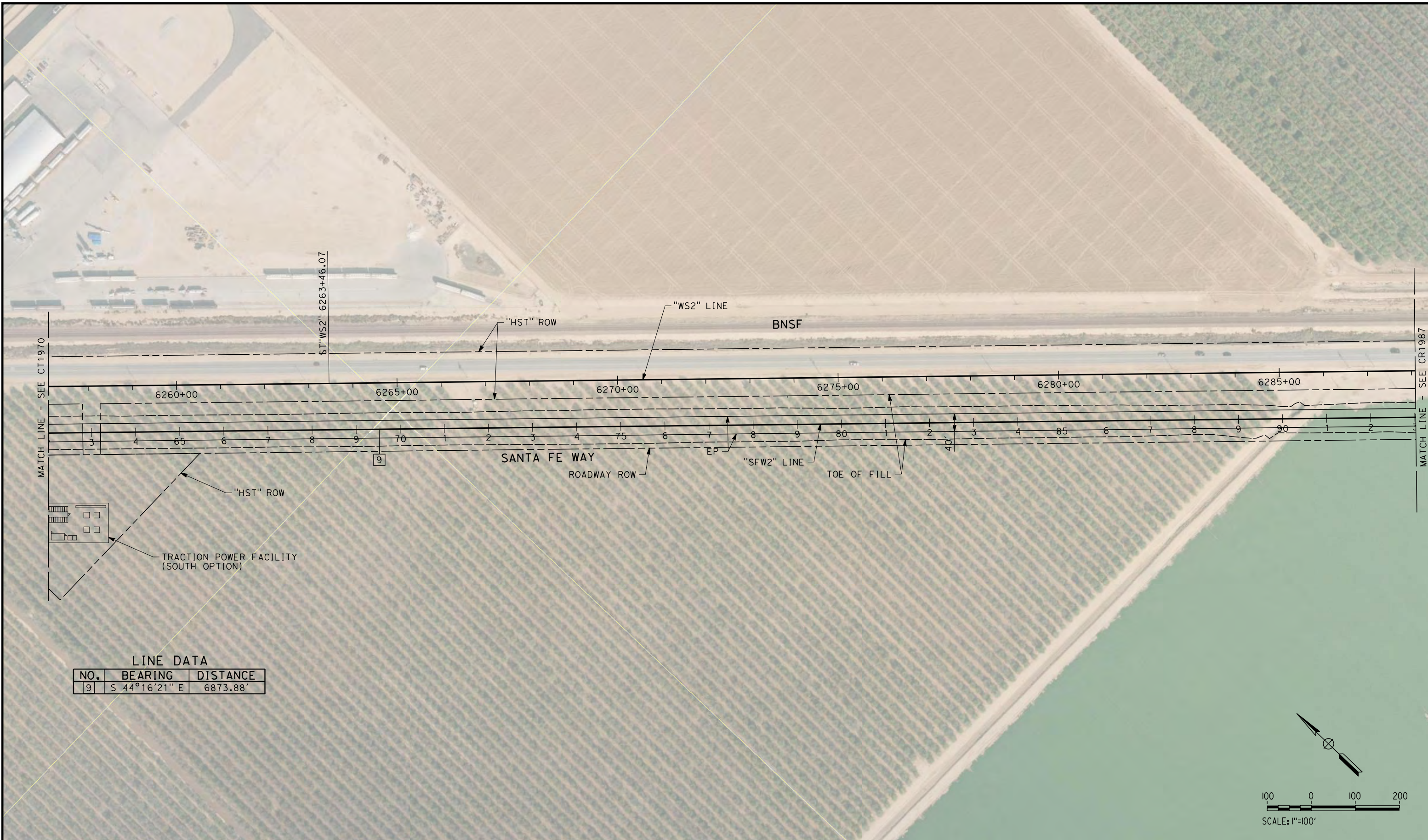


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
ROADWAY LAYOUT  
SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CR1985  
SCALE  
AS SHOWN  
SHEET NO.  
42 OF 60



12/30/2013 4:25:15 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi\working\hmm\external\jos53823\dms70862\FB-CR-1986-WS2.dgn



LINE DATA

NO.	BEARING	DISTANCE
9	S 44° 16' 21" E	6873.88'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
ROADWAY LAYOUT  
SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CR1986  
SCALE  
AS SHOWN  
SHEET NO.  
43 OF 60



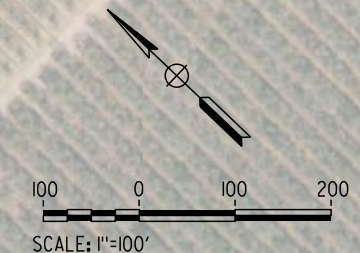
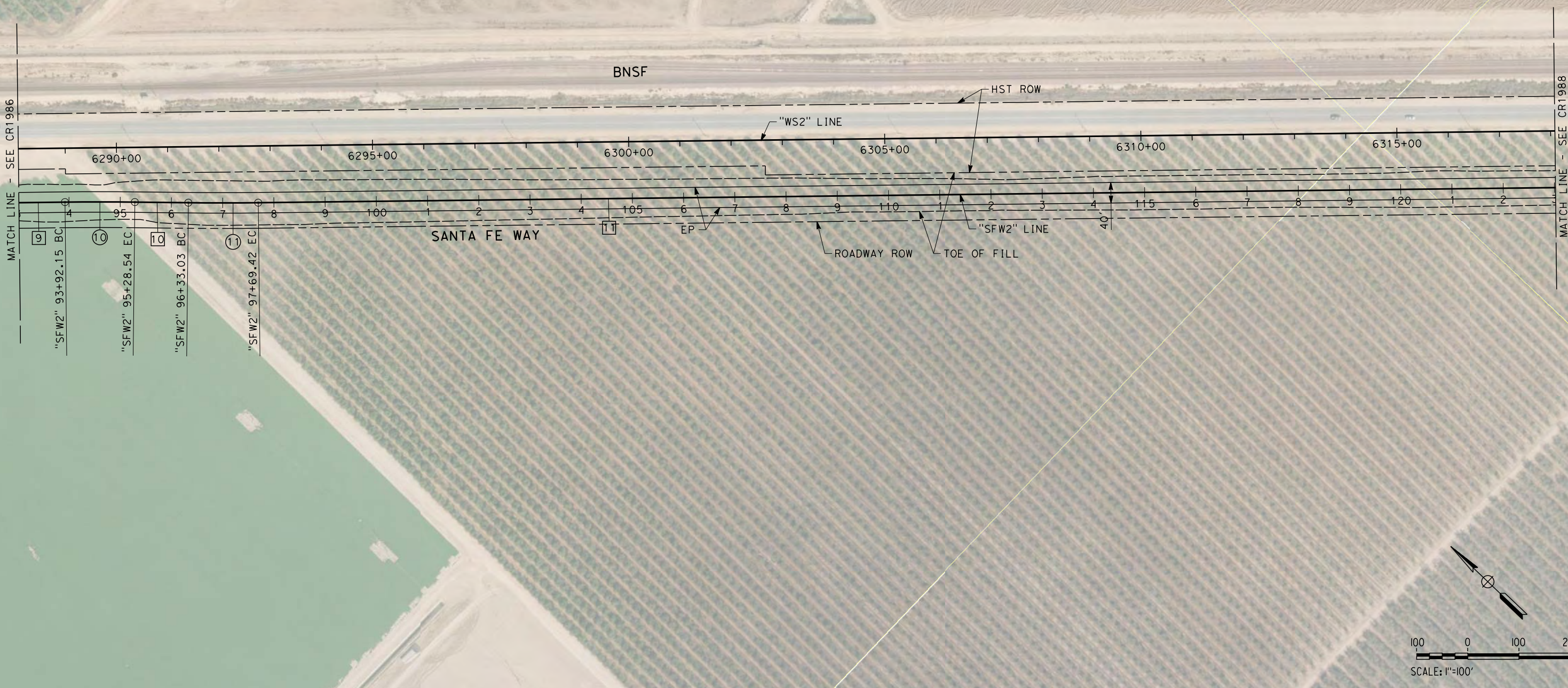
LINE DATA

NO.	BEARING	DISTANCE
9	S 44°16'21" E	6873.88'
10	S 42°58'12" E	104.49'
11	S 44°16'21" E	13149.24'

CURVE DATA

NO.	R	Δ	T	L
10	6000.00'	01°18'09"	68.20'	136.39'
11	6000.00'	01°18'09"	68.20'	136.39'

12/30/2013 4:26:02 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \joes3823\dms70862\FB-CR-1987-WS2.dgn



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



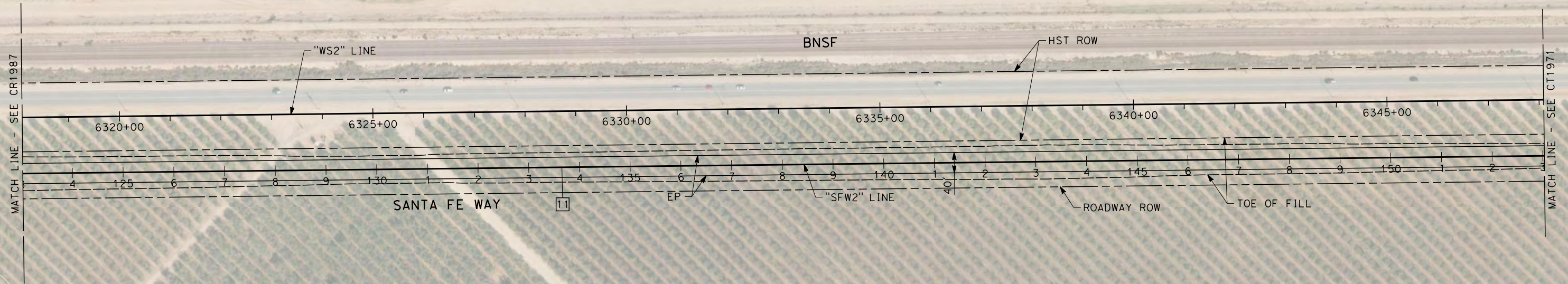
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
ROADWAY LAYOUT  
SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CR1987  
SCALE  
AS SHOWN  
SHEET NO.  
44 OF 60



LINE DATA

NO.	BEARING	DISTANCE
11	S 44°16'21" E	13149.24'



12/30/2013 4:26:42 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jose53823\mms\external\jose53823\dms70862\FB-CR-1988-WS2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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



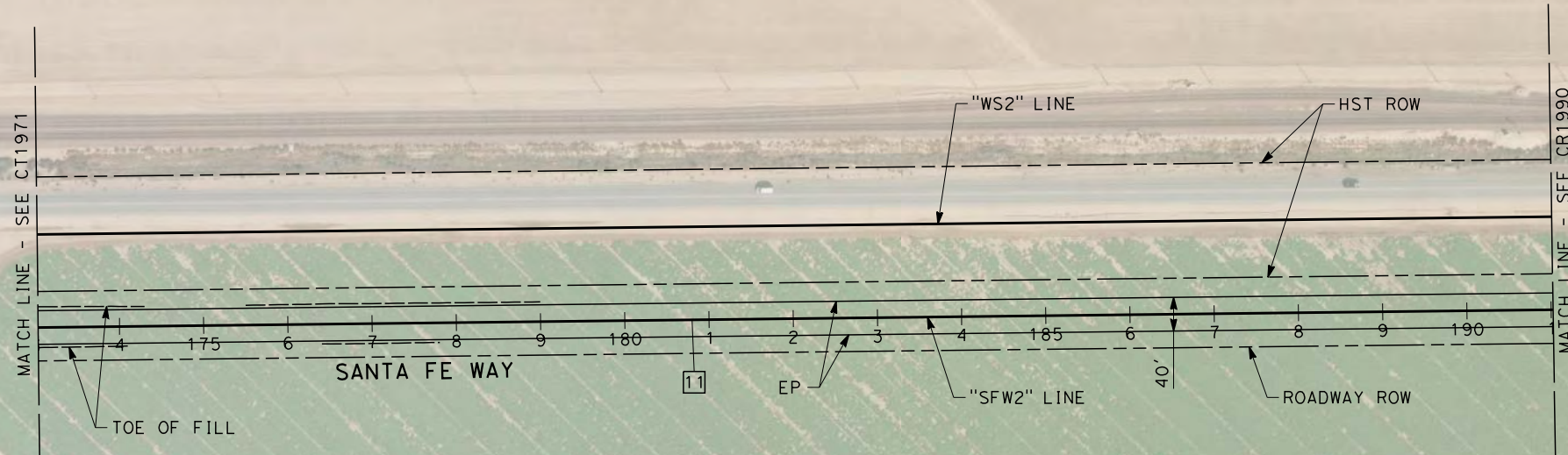
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
ROADWAY LAYOUT  
SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CR1988  
SCALE  
AS SHOWN  
SHEET NO.  
45 OF 60



LINE DATA

NO.	BEARING	DISTANCE
11	S 44°16'21" E	13149.24'



12/30/2013 4:27:41 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \joes3823\mms\external\joes3823\dms70862\FB-CR-1989-WS2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



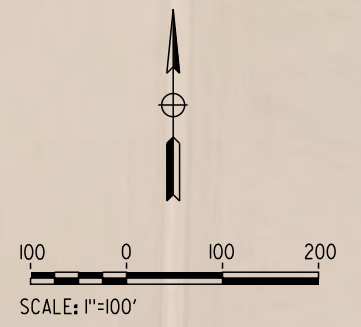
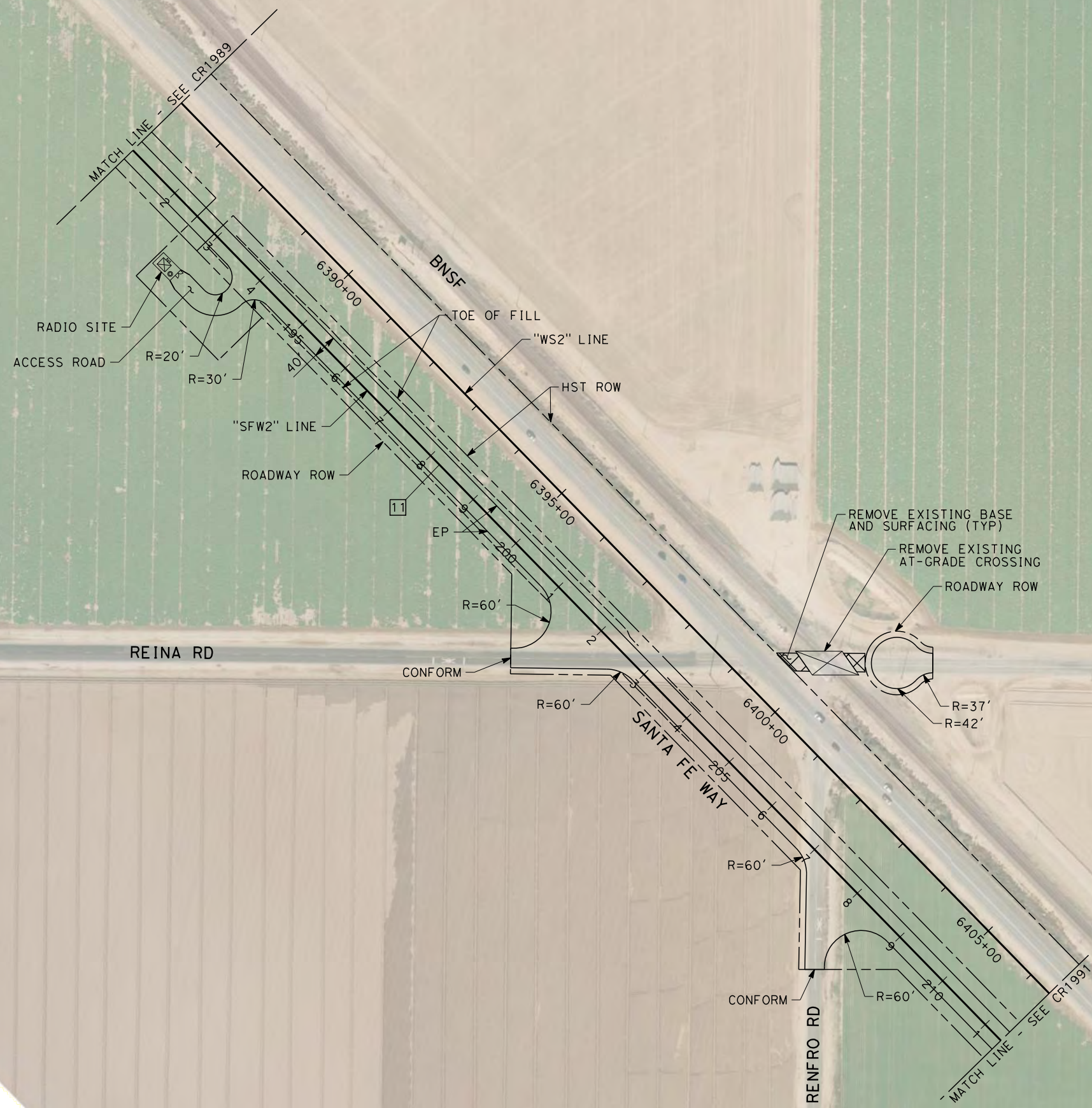
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
ROADWAY LAYOUT  
SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CR1989  
SCALE  
AS SHOWN  
SHEET NO.  
46 OF 60



LINE DATA		
NO.	BEARING	DISTANCE
11	S 44°16'21" E	13149.24'



12/30/2013 4:28:15 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_2013.dwg \\joes3823\dms70862\FB-CR-1990-WS2.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

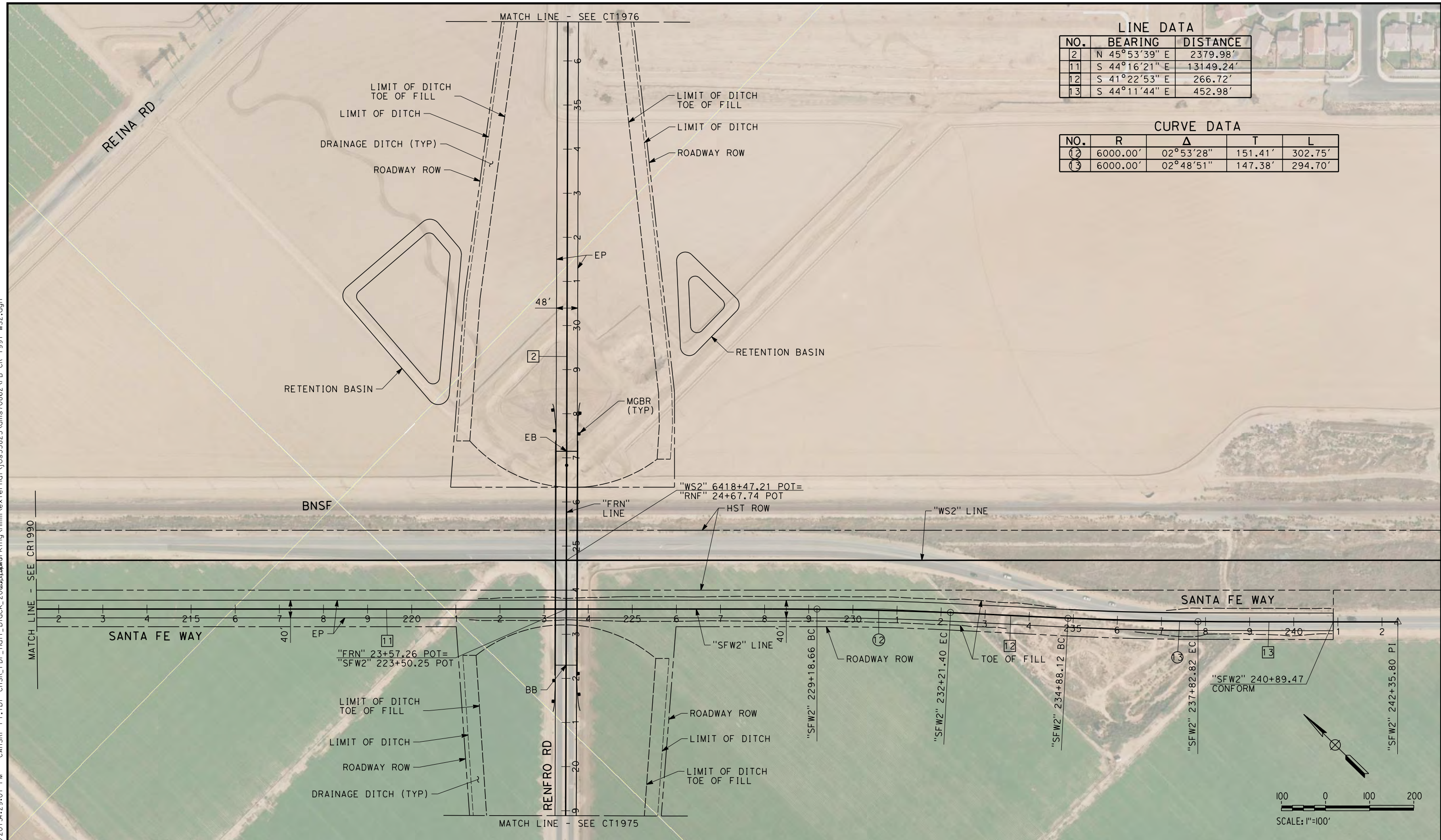


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 ROADWAY LAYOUT  
 SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CR1990  
SCALE  
AS SHOWN  
SHEET NO.  
47 OF 60



12/30/2013 4:29:01 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jose53823\dms70862\FB-CR-1991-WS2.dgn

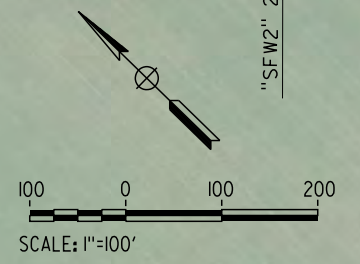


**LINE DATA**

NO.	BEARING	DISTANCE
2	N 45°53'39" E	2379.98'
11	S 44°16'21" E	13149.24'
12	S 41°22'53" E	266.72'
13	S 44°11'44" E	452.98'

**CURVE DATA**

NO.	R	Δ	T	L
12	6000.00'	02°53'28"	151.41'	302.75'
13	6000.00'	02°48'51"	147.38'	294.70'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
B. RAWSON  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

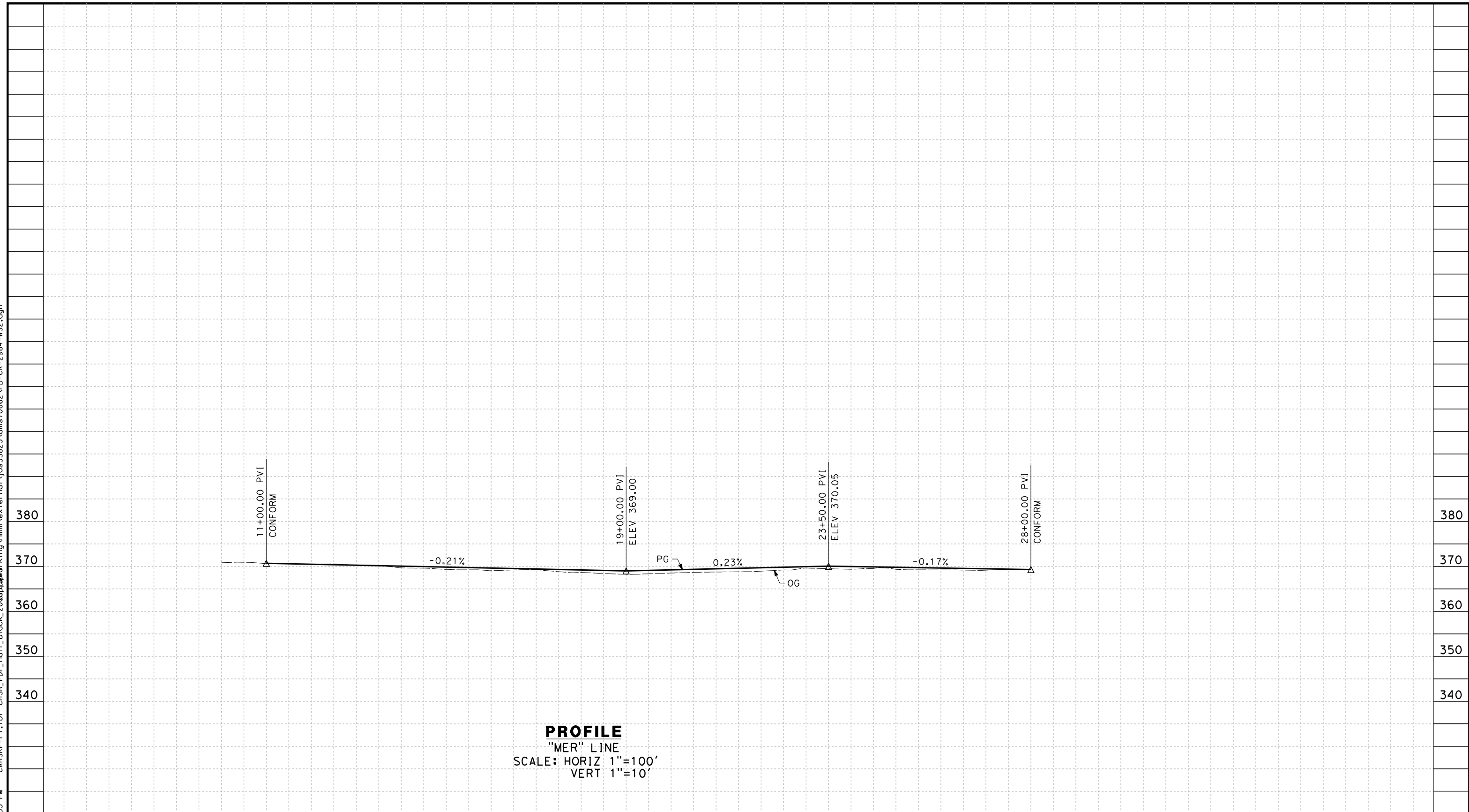


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
WASCO-SHAFTER BYPASS SUBSECTION  
ALIGNMENT WS2  
ROADWAY LAYOUT  
SANTA FE WAY & RENFRO RD

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CR1991  
SCALE  
AS SHOWN  
SHEET NO.  
48 OF 60



12/30/2013 4:29:33 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\joss53823\dms70862\FB-CR-2984-WS2.dgn



STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	TOTAL	
Exc																							
Emb																							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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



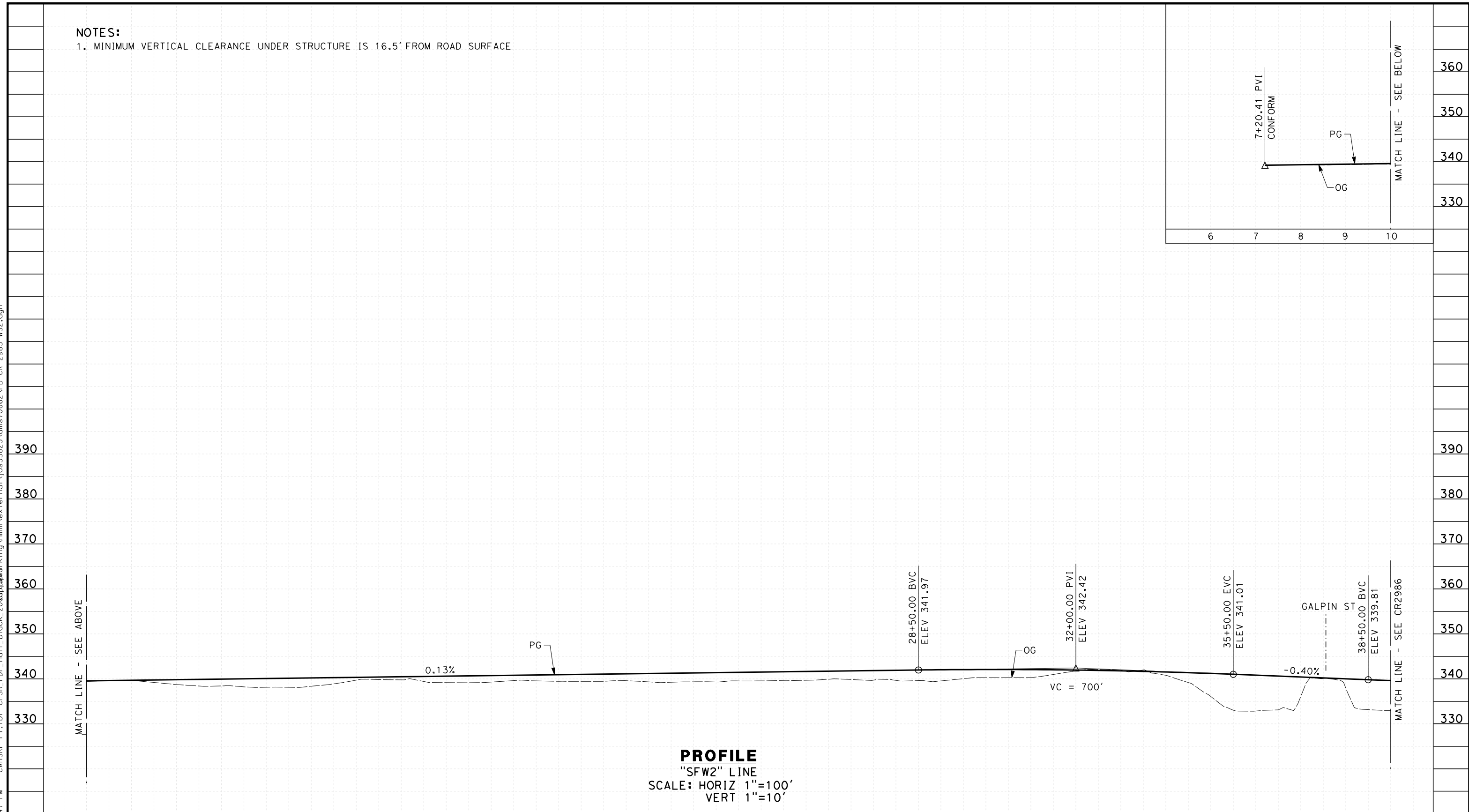
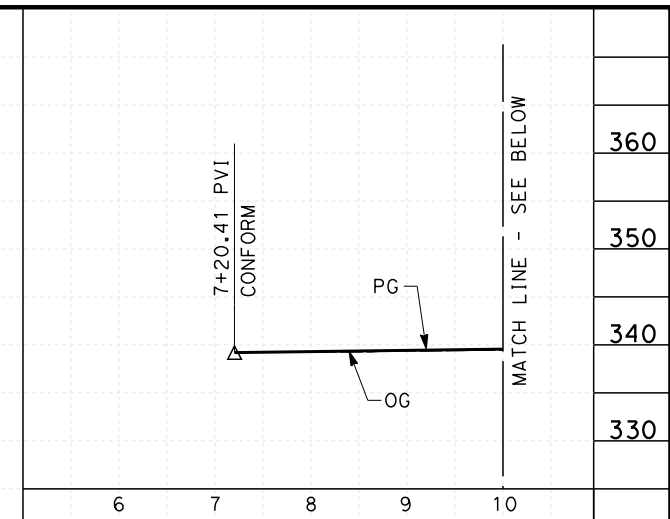
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 ROADWAY PROFILE  
 MANNEL AVE AND MERCED AVE

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CR2984  
 SCALE  
AS SHOWN  
 SHEET NO.  
49 OF 60



**NOTES:**

1. MINIMUM VERTICAL CLEARANCE UNDER STRUCTURE IS 16.5' FROM ROAD SURFACE



**PROFILE**  
 "SFW2" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	8	9	TOTAL
Exc																															
Emb																															

DESIGNED BY	C. RAMIREZ
DRAWN BY	V. ORTEGA
CHECKED BY	B. RAWSON
IN CHARGE	R. COFFIN
DATE	12/31/13

**RECORD SET 15%  
 DESIGN SUBMISSION**

**NOT FOR  
 CONSTRUCTION**



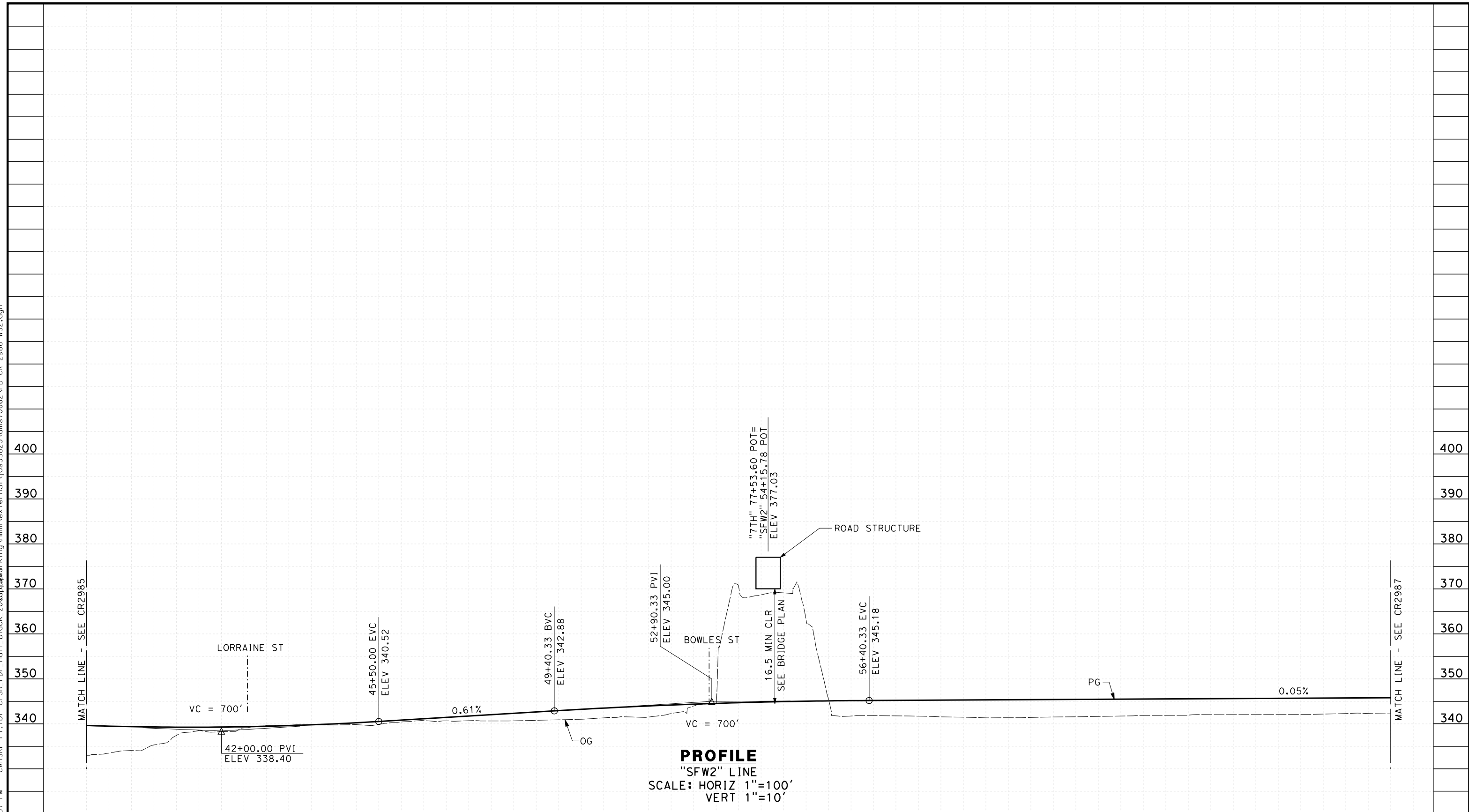
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 ROADWAY PROFILE  
 SANTA FE WAY

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CR2985
SCALE	AS SHOWN
SHEET NO.	50 OF 60

12/30/2013 4:29:47 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\working\hmm\external\jos53823\dms70862\FB-CR-2985-WS2.dgn



12/30/2013 4:29:57 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jose53823\dms70862\FB-CR-2986-WS2.dgn



STATION	9	40	1	2	3	4	45	6	7	8	9	50	1	2	3	4	55	6	7	8	9	60	1	2	3	4	65	6	7	8	TOTAL		
Exc																																	
Emb																																	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

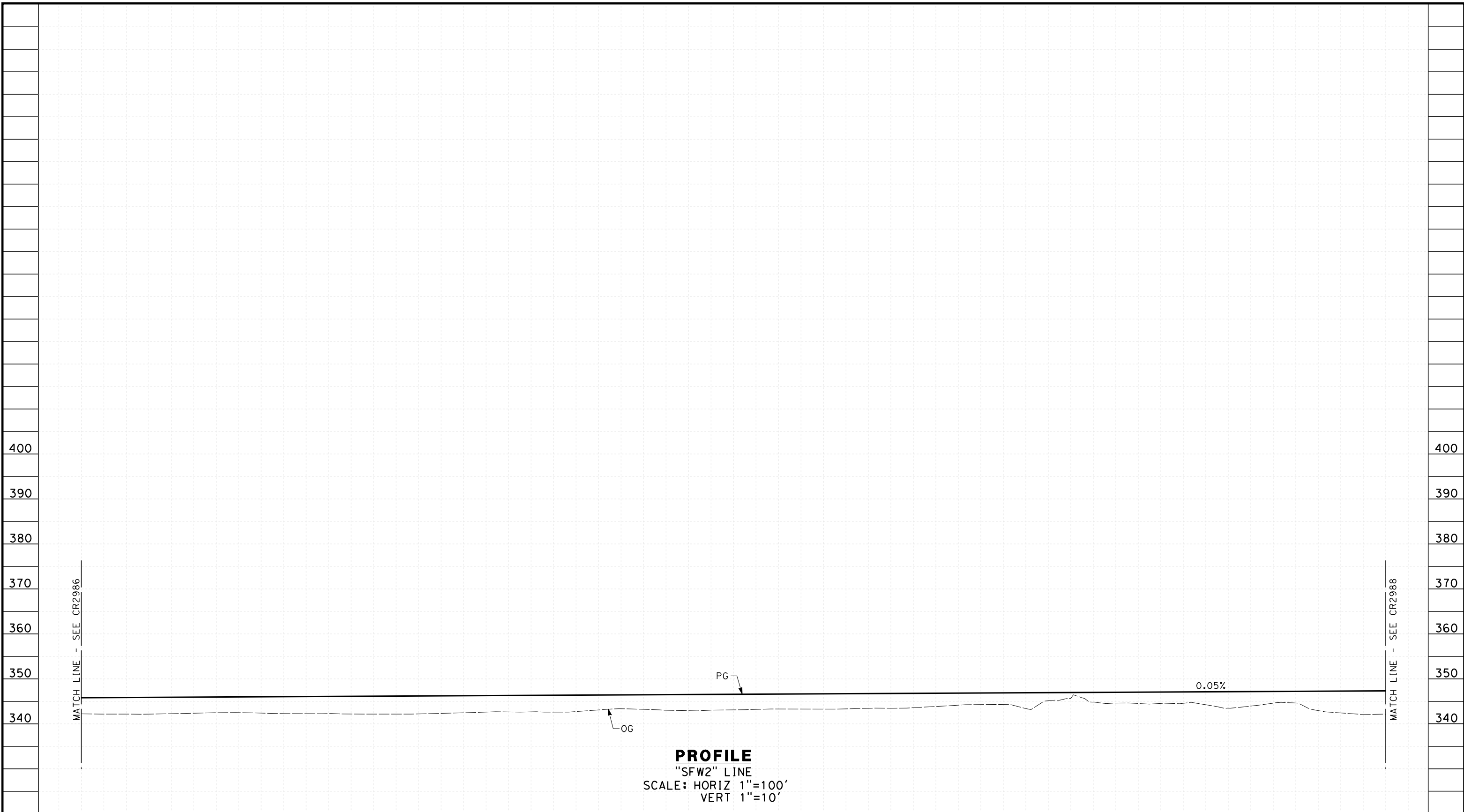


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 ROADWAY PROFILE  
 SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CR2986  
 SCALE  
AS SHOWN  
 SHEET NO.  
51 OF 60



12/30/2013 4:30:10 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\joe53823\dms70862\FB-CR-2987-WS2.dgn



STATION	8	9	70	1	2	3	4	75	6	7	8	9	80	1	2	3	4	85	6	7	8	9	90	1	2	3	4	95	6	7	TOTAL	
Exc																																
Emb																																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

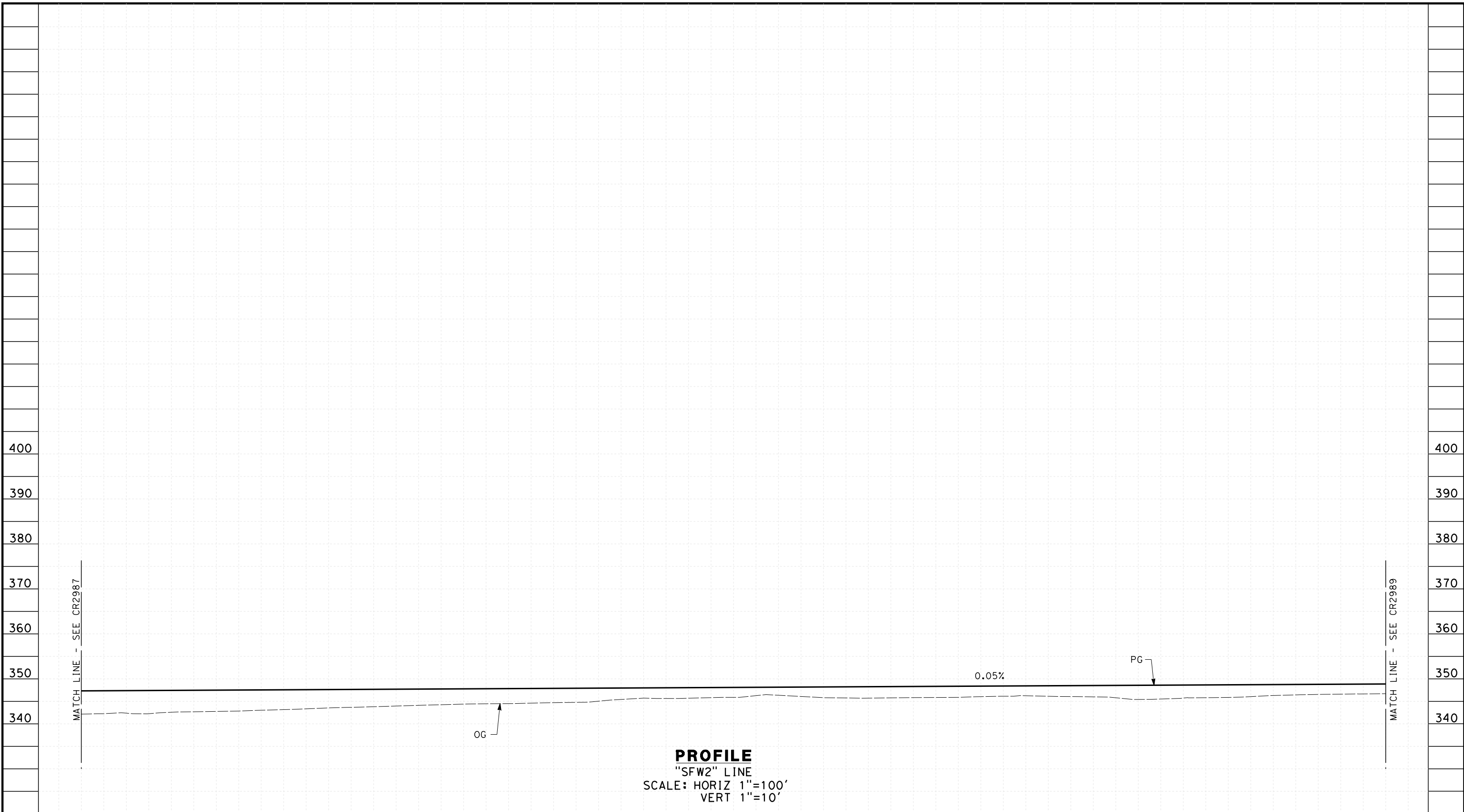


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 ROADWAY PROFILE  
 SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CR2987  
 SCALE  
AS SHOWN  
 SHEET NO.  
52 OF 60



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STATION	7	8	9	100	1	2	3	4	105	6	7	8	9	110	1	2	3	4	115	6	7	8	9	120	1	2	3	4	125	6	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

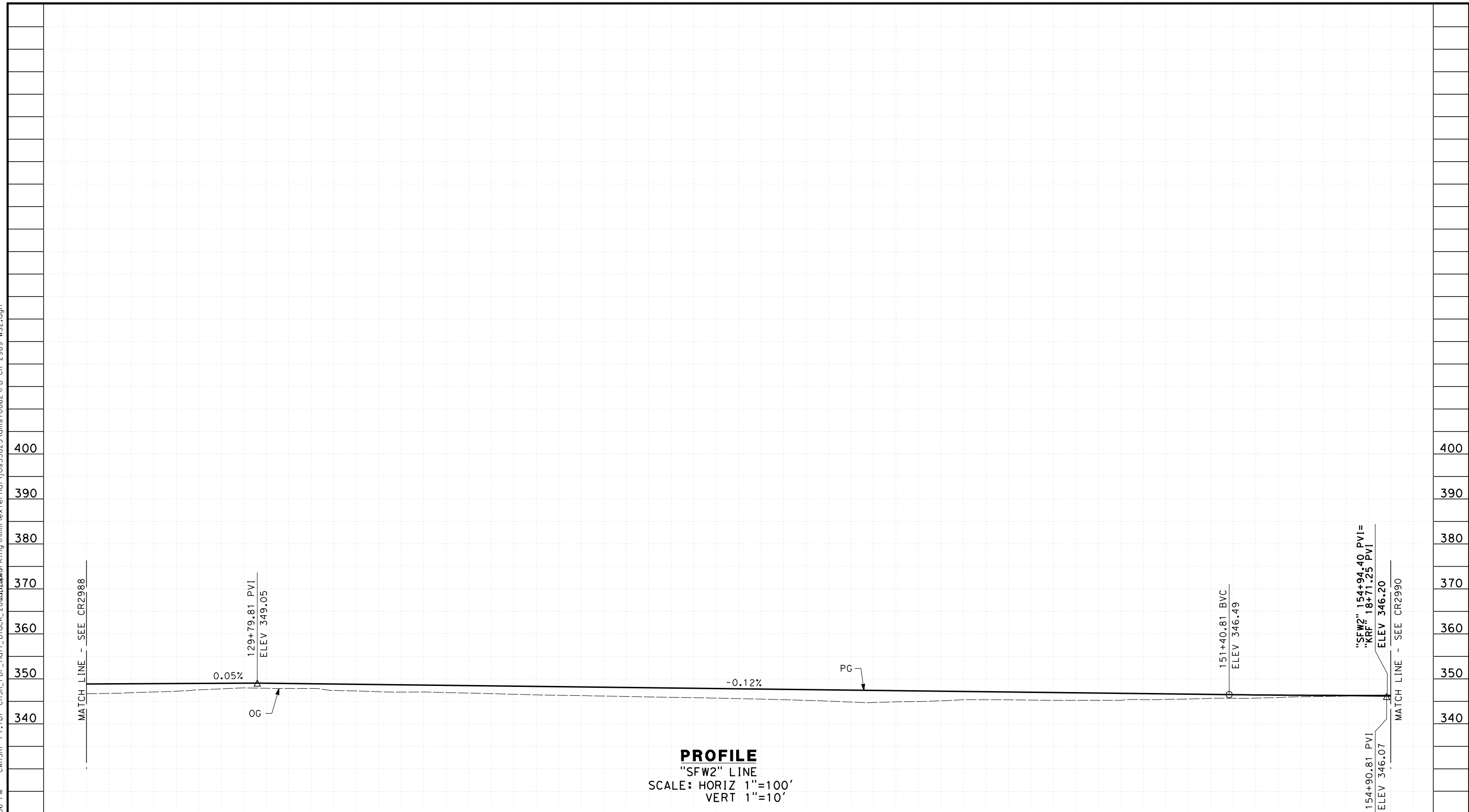


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 ROADWAY PROFILE  
 SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CR2988  
 SCALE  
AS SHOWN  
 SHEET NO.  
53 OF 60



12/30/2013 4:30:36 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\joe53823\dms70862\FB-CR-2989-WS2.dgn



**PROFILE**  
 "SFW2" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	6	7	8	9	130	1	2	3	4	135	6	7	8	9	140	1	2	3	4	145	6	7	8	9	150	1	2	3	4	155	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

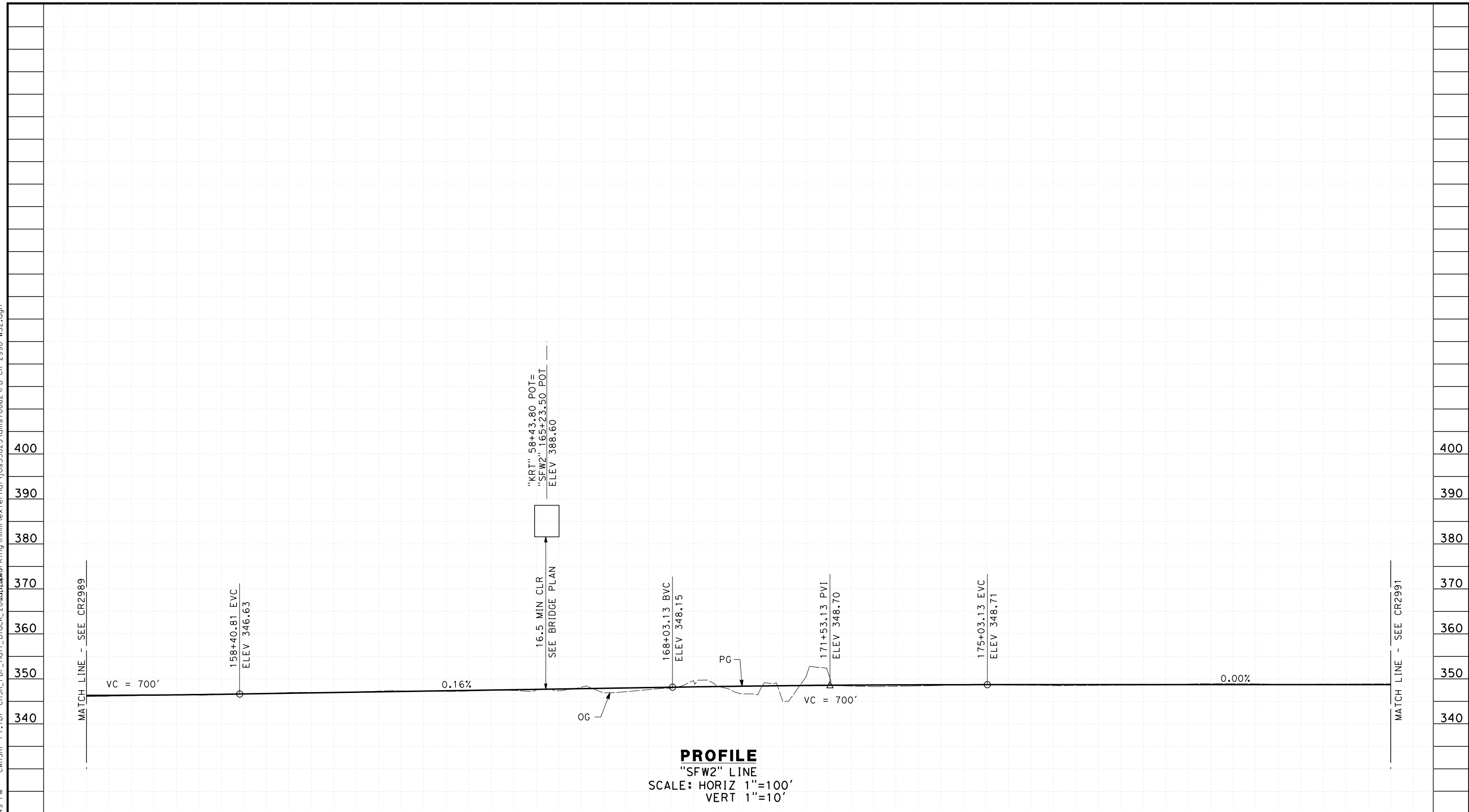


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 ROADWAY PROFILE  
 SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CR2989  
 SCALE  
AS SHOWN  
 SHEET NO.  
54 OF 60



12/30/2013 4:49 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jose53823\dms70862\FB-CR-2990-WS2.dgn



**PROFILE**  
 "SFW2" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	155	6	7	8	9	160	1	2	3	4	165	6	7	8	9	170	1	2	3	4	175	6	7	8	9	180	1	2	3	4	TOTAL	
Exc																																
Emb																																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

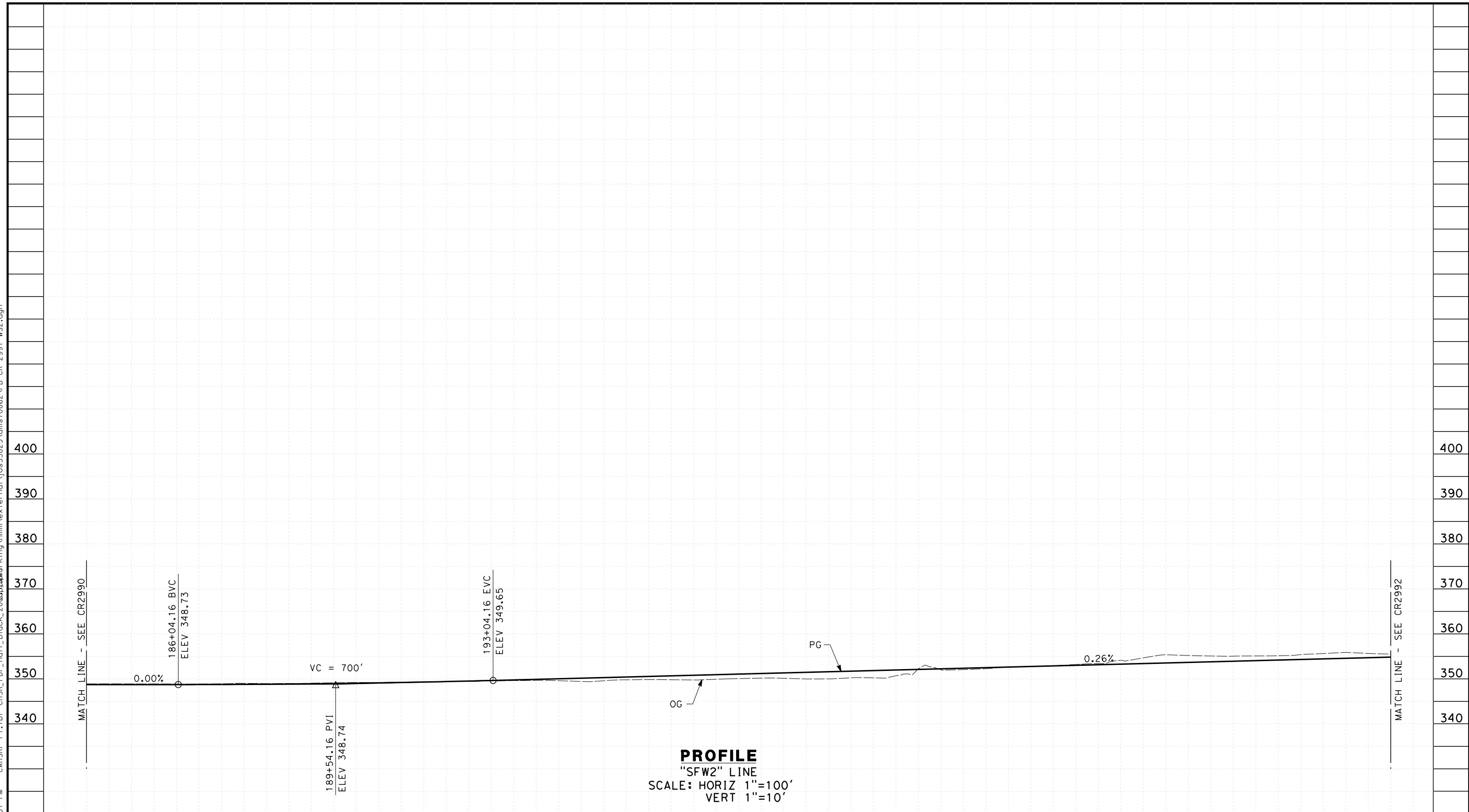


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 ROADWAY PROFILE  
 SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CR2990  
 SCALE  
AS SHOWN  
 SHEET NO.  
55 OF 60



12/30/2013 4:31:01 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jose53823\dms70862\FB-CR-2991-WS2.dgn



STATION	4	185	6	7	8	9	190	1	2	3	4	195	6	7	8	9	200	1	2	3	4	205	6	7	8	9	210	1	2	3	TOTAL
Exc																															
Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

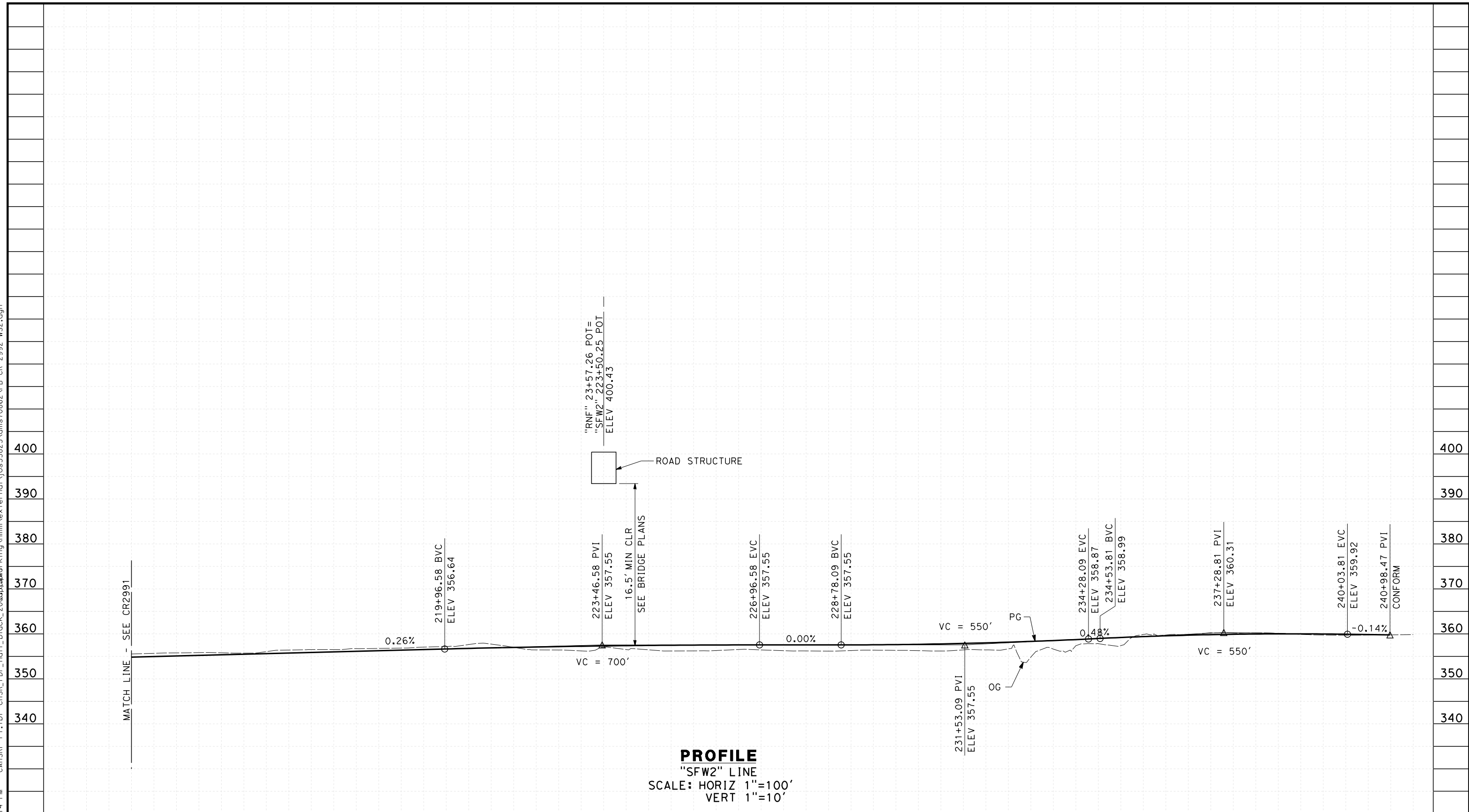


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 ROADWAY PROFILE  
 SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CR2991  
 SCALE  
AS SHOWN  
 SHEET NO.  
56 OF 60



12/30/2013 4:31:14 PM CAHSR-r1.tbl CHSR\_PDF\_half\_black\_200dpi.dwg \\jose53823\dms70862\FB-CR-2992-WS2.dgn



STATION	3	4	215	6	7	8	9	220	1	2	3	4	225	6	7	8	9	230	1	2	3	4	235	6	7	8	9	240	1	TOTAL
Exc																														
Emb																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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



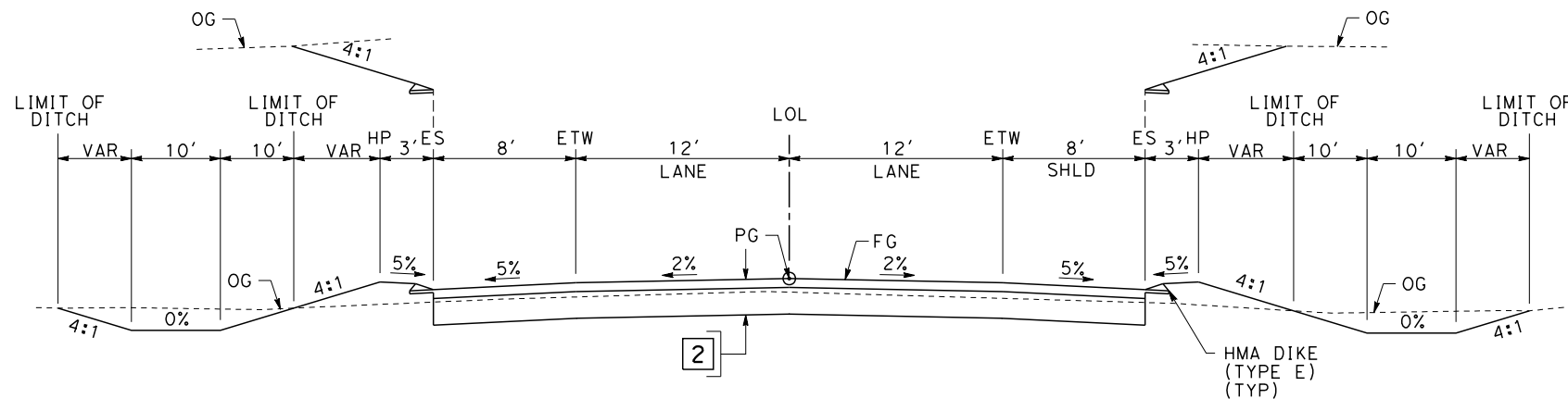
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 ROADWAY PROFILE  
 SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CR2992  
 SCALE  
AS SHOWN  
 SHEET NO.  
57 OF 60



**NOTES:**

1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSIONS AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.
3. PEDESTRIAN FACILITIES WILL BE DESIGNED TO COMPLY WITH ADA REQUIREMENTS.
4. "RNF" IS SIMILAR TO SECTION A, BUT WILL HAVE 12' SHOULDER ON BOTH SIDES.



**SECTION A**

"KRT" 43+75.00 TO 56+80.00  
 "KRT" 63+30.00 TO 76+00.00  
 "KIM" 22+17.85 TO 40+45.00  
 "KIM" 43+50.00 TO 61+00.00

**STRUCTURAL SECTIONS**

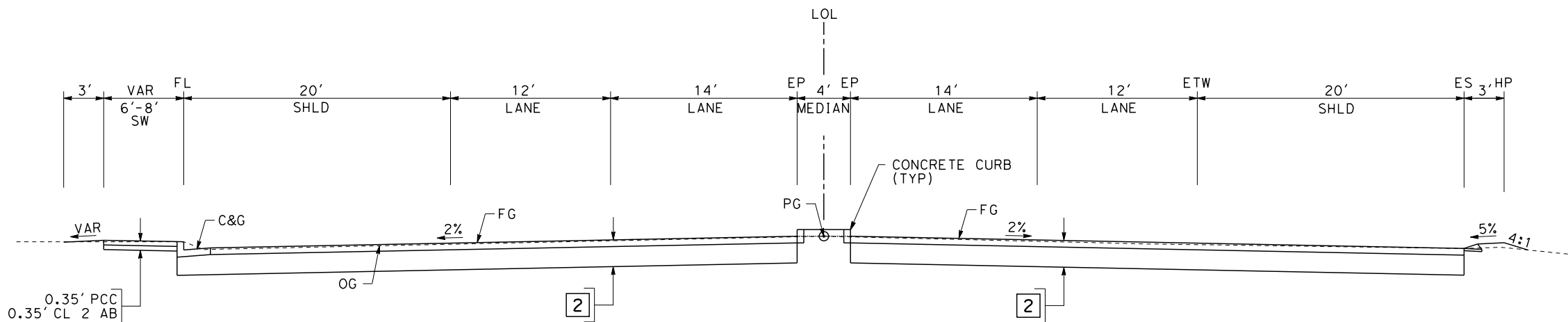
**TYPICAL ROADWAY**

1 0.30' HMA (TYPE A)  
 1.40' CL 2 AB

2 0.50' HMA (TYPE A)  
 1.50' CL 2 AB

**KIMBERLINA ROAD**

3 0.40' HMA (TYPE A)  
 1.70' CL 2 AB

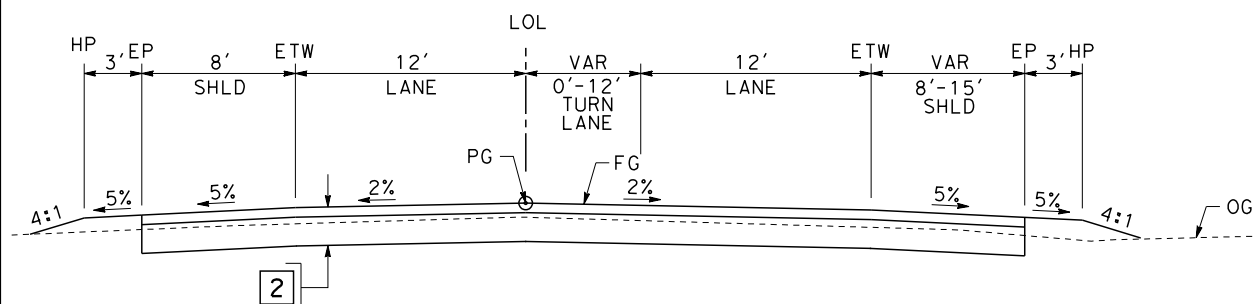


**SECTION B**

"7TH" 75+50.00 TO 76+40.00  
 "7TH" 81+69.50 TO 82+50.00

**TABLE OF DESIGN SPEEDS**

STREET NAME	ALIGNMENT DESIGNATION	DESIGN SPEED	CRITERIA / JURISDICTION
KIMBERLINA AVE	KIM	65	KERN COUNTY/KERN COUNTY
POPLAR AVE	PA	45,35	KERN COUNTY/KERN COUNTY
SHAFTER AVE	SA	55	KERN COUNTY/KERN COUNTY
MERCED AVE	MER	45	CITY OF SHAFTER/CITY OF SHAFTER
BEECH AVE	BA	55	CITY OF SHAFTER/CITY OF SHAFTER
FRESNO AVE	FA	55	CITY OF SHAFTER/CITY OF SHAFTER
E LERDO HWY	LH	60	CITY OF SHAFTER/CITY OF SHAFTER
CHERRY AVE	CA	55	CITY OF SHAFTER/CITY OF SHAFTER
RIVERSIDE ST	RS	45,35	CITY OF SHAFTER/CITY OF SHAFTER
SANTA FE WAY	SFW2	45	KERN-BAKERSFIELD/KERN-BAKERSFIELD
7TH STANDARD RD	7TH	50	KERN COUNTY/KERN COUNTY
KRATZMEYER RD	KRF	55	CITY OF BAKERSFIELD/CITY OF BAKERSFIELD
KRATZMEYER CONNECTOR	KRT	25	CITY OF BAKERSFIELD/CITY OF BAKERSFIELD
NORIEGA RD	NOR	25	KERN COUNTY/KERN COUNTY
RENFRO RD	RNF	65	KERN COUNTY/KERN COUNTY



**SECTION C**

"SFW2" 7+20.41 TO 240+89.47  
 "KRT" 76+00.00 TO 76+75.00

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

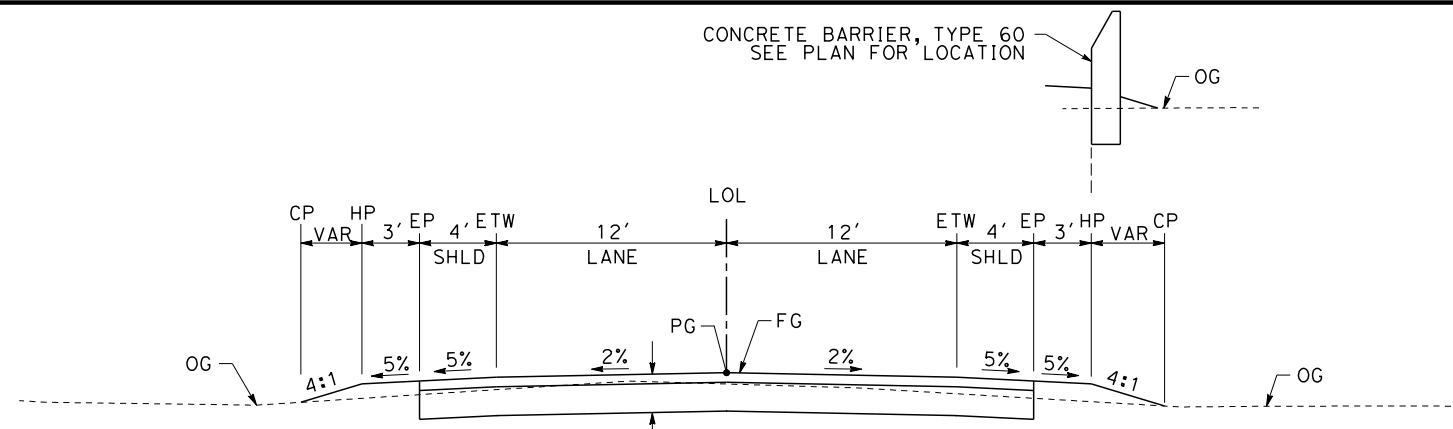


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 ROADWAY / GRADE SEPARATION  
 TYPICAL CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT3140  
 SCALE  
AS SHOWN  
 SHEET NO.  
58 OF 60

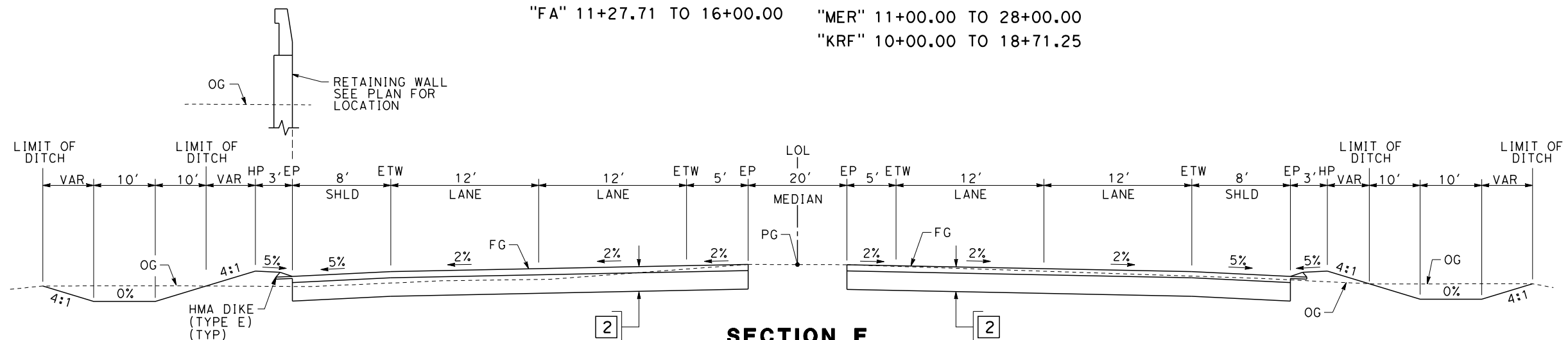


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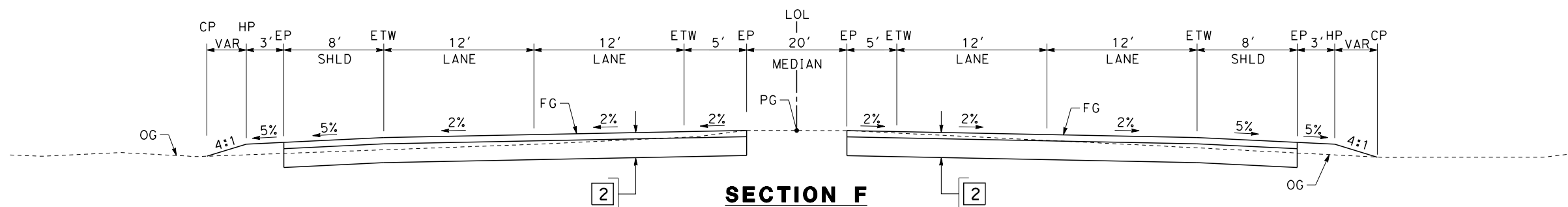
**SECTION D**

"PA" 10+75.00 TO 72+92.46 "CA" 20+00.00 TO 27+00.00  
 "BA" 32+50.00 TO 33+00.00 "CA" 66+77.70 TO 67+50.00  
 "BA" 67+00.00 TO 68+00.00 "RS" 11+00.00 TO 72+00.00  
 "FA" 11+27.71 TO 16+00.00 "MER" 11+00.00 TO 28+00.00  
 "KRF" 10+00.00 TO 18+71.25



**SECTION E**

"LH" 32+20.00 TO 48+69.25  
 "LH" 51+55.25 TO 66+80.00



**SECTION F**

"LH" 31+50.00 TO 33+20.00  
 "LH" 66+80.00 TO 68+50.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

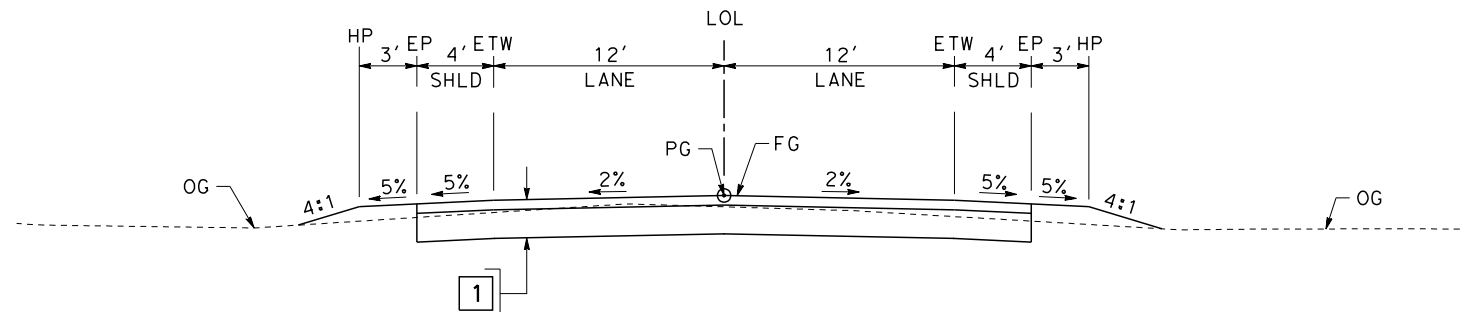


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 ROADWAY / GRADE SEPERATION  
 TYPICAL CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT3141  
 SCALE  
AS SHOWN  
 SHEET NO.  
59 OF 60

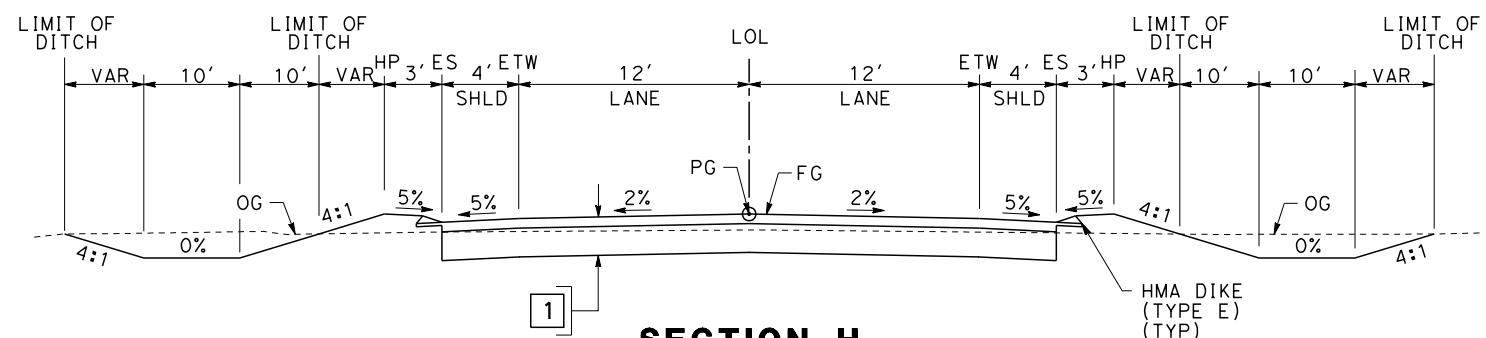


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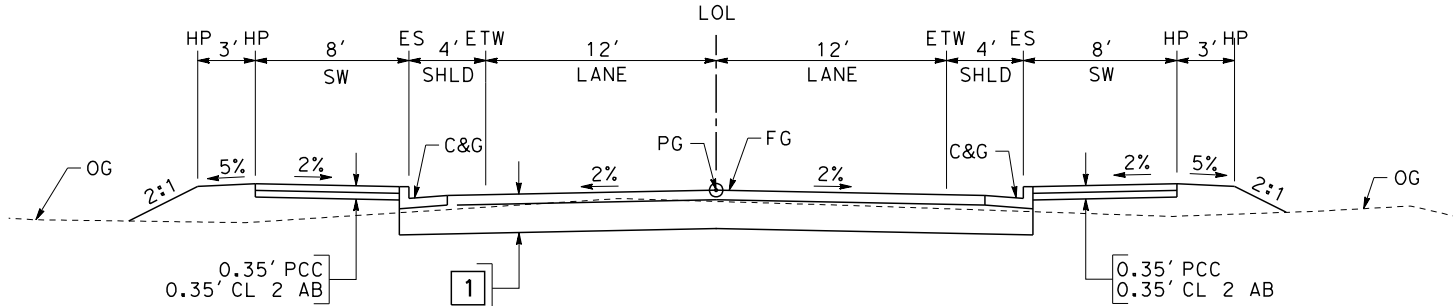
**SECTION G**

"KIM" 61+00.00 TO 65+07.35  
 "NOR" 10+00.00 TO 16+26.20



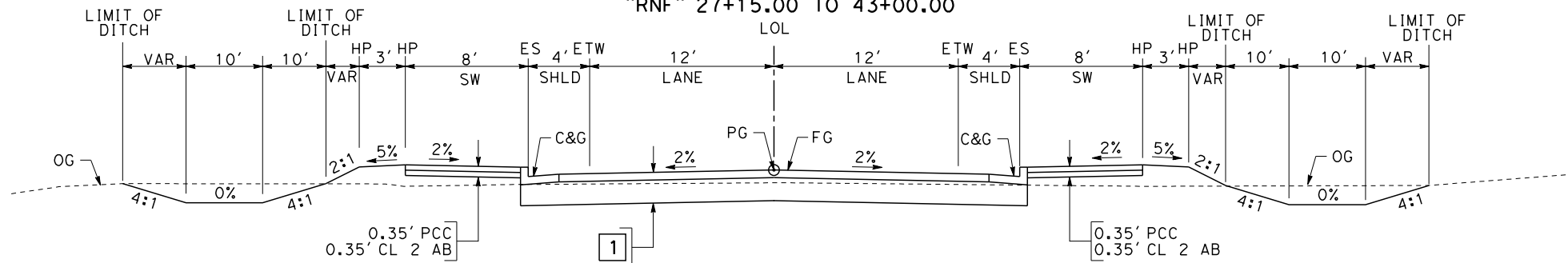
**SECTION H**

"SA" 28+00.00 TO 47+40.00 "BA" 52+62.00 TO 67+00.00  
 "SA" 52+60.00 TO 72+00.00 "CA" 27+00.00 TO 47+92.00  
 "BA" 33+00.00 TO 47+38.00 "CA" 52+07.00 TO 66+77.70



**SECTION I**

"RNF" 0+91.77 TO 13+10.00  
 "RNF" 27+15.00 TO 43+00.00



**SECTION J**

"RNF" 13+10.00 TO 22+30.00  
 "RNF" 43+00.00 TO 50+97.27

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
C. RAMIREZ  
 DRAWN BY  
V. ORTEGA  
 CHECKED BY  
B. RAWSON  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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



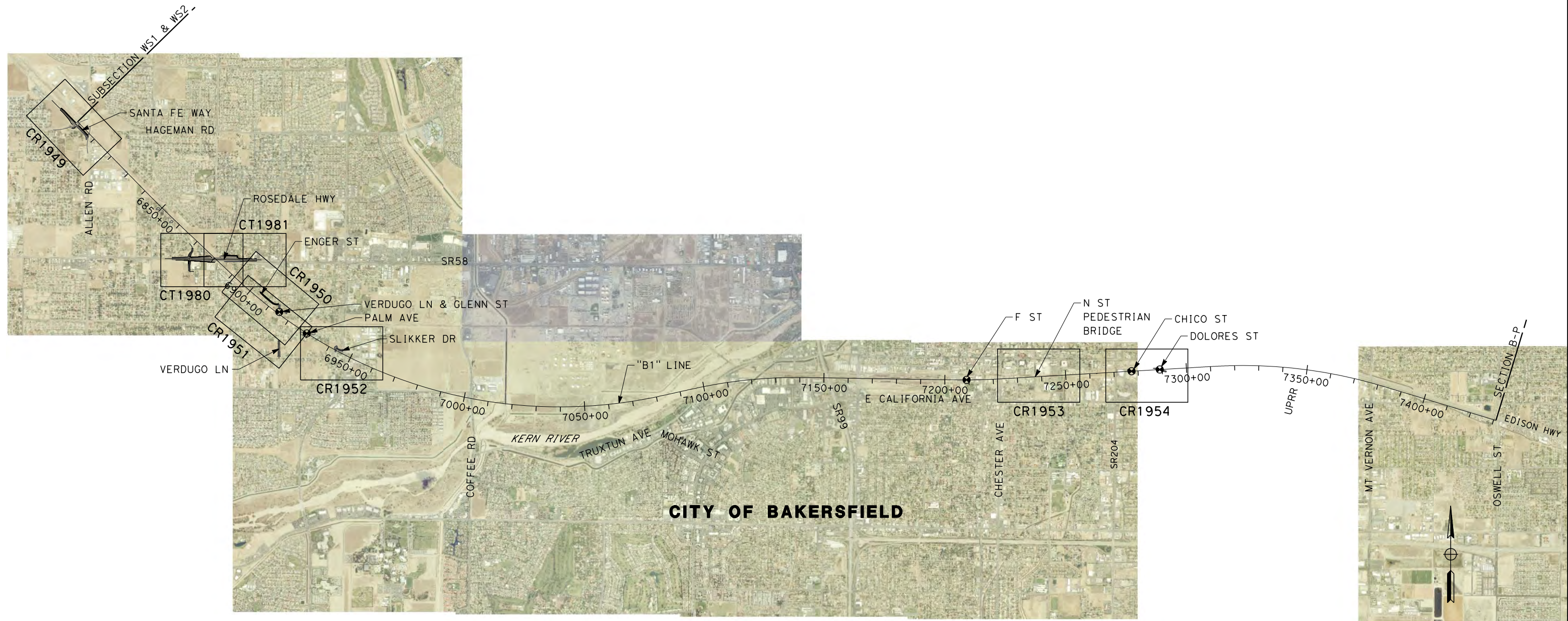
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 WASCO-SHAFTER BYPASS SUBSECTION  
 ALIGNMENT WS2  
 ROADWAY / GRADE SEPARATION  
 TYPICAL CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT3142  
 SCALE  
AS SHOWN  
 SHEET NO.  
60 OF 60



**STREET CLOSURE**

STREET NAME	HST ALIGNMENT STA	LOCAL STANDARD
VERDUGO LN & GLENN ST	6915+00.00	CITY OF BAKERSFIELD
PALM AVE	6929+00.00	CITY OF BAKERSFIELD
F ST	7209+00.00	CITY OF BAKERSFIELD
CHICO ST	7277+00.00	CITY OF BAKERSFIELD
DELORES ST	7289+00.00	CITY OF BAKERSFIELD



\$FILE \$  
 \$PLTDRVS \$  
 \$PENTBLS \$  
 \$TIME \$  
 \$DATE \$  
 \$USER \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
 A. CANNON  
 DRAWN BY  
 E. SUDHAUSEN  
 CHECKED BY  
 J. MONG  
 IN CHARGE  
 R. COFFIN  
 DATE  
 12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 ROADWAY / GRADE SEPARATION  
 KEY MAP

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CB0190  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 1 OF 17



RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	90.21' LT "ROS" 105+37.39	123.81' LT "ROS" 113+80.85	859'	20'
2	81.54' RT "ROS" 105+36.74	116.26' RT "ROS" 115+52.57	1025'	20'
3	24.00' LT "JEW" 9+00.00	48.57' LT "ROS" 128+98.08	1022'	22'
4	94.51' RT "ROS" 119+95.97	78.30' RT "LOK" 126+06.36	611'	20'
5	55.84' RT "LOK" 102+91.55	28.00' RT "LOK" 18+99.34	327'	14'
6	130.93' LT "ROS" 118+14.37	128.47' LT "ROS" 120+87.04	273'	5'

LINE DATA

NO.	BEARING	DISTANCE
1	S 89°09'39" E	4000.00'
2	S 43°56'30" E	72.43'
3	S 34°36'55" W	56.89'
4	S 0°40'16" W	536.12'
5	S 89°19'44" E	151.51'
6	S 88°38'38" E	600.00'

CURVE DATA

NO.	R	Δ	T	L
①	250.00'	78°33'25"	204.47'	342.77'
②	273.00'	33°56'39"	83.32'	161.74'
③	50.00'	90°00'00"	50.00'	78.54'



\$FILE \$  
 \$PLTDRVS \$  
 \$PENTBLS \$  
 \$DATE \$  
 \$TIME \$  
 \$USER \$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CANNON**  
 DRAWN BY  
**E. SUDHAUSEN**  
 CHECKED BY  
**J. MONG**  
 IN CHARGE  
**R. COFFIN**  
 DATE  
**12/31/13**

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 GRADE SEPARATION LAYOUT  
 ROSEDALE HWY

CONTRACT NO.  
**HSR 06-0003**  
 DRAWING NO.  
**CT1980**  
 SCALE  
**AS SHOWN**  
 SHEET NO.  
**2 OF 17**



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RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
3	24.00' LT "JEW"	9+00.00 48.57' LT "ROS" 128+98.08	1022'	22'
4	94.51' RT "ROS"	119+95.97 78.30' RT "ROS" 126+06.36	611'	20'

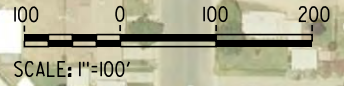


LINE DATA

NO.	BEARING	DISTANCE
1	S 89° 09' 39" E	4000.00'
6	S 88° 38' 38" E	600.00'
7	S 0° 53' 12" W	87.26'

CURVE DATA

NO.	R	Δ	T	L
③	55.00'	89° 31' 50"	54.55'	85.94'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
A. CANNON  
 DRAWN BY  
E. SUDHAUSEN  
 CHECKED BY  
J. MONG  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 GRADE SEPARATION LAYOUT  
 ROSEDALE HWY

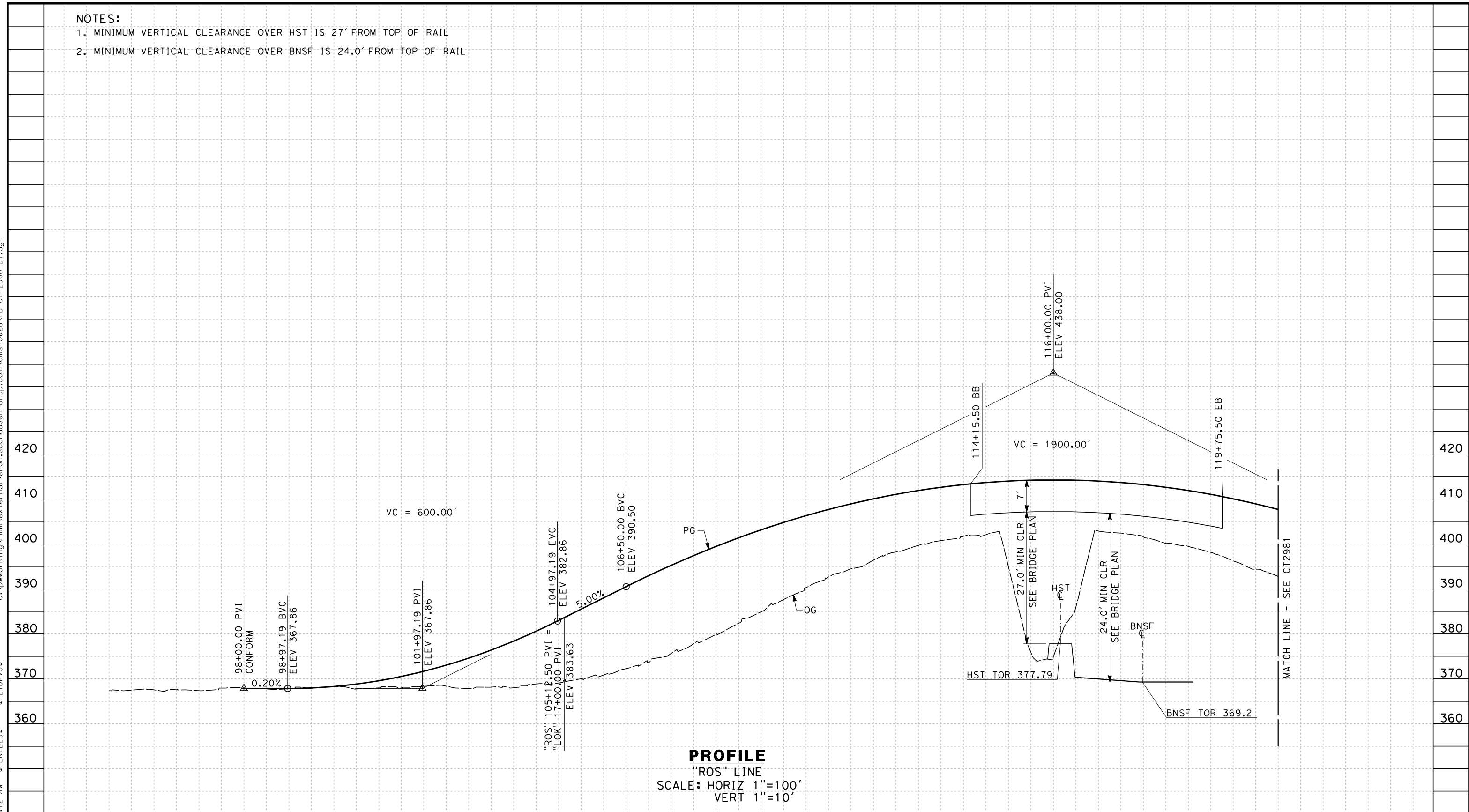
CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT1981  
 SCALE  
AS SHOWN  
 SHEET NO.  
3 OF 17



**NOTES:**

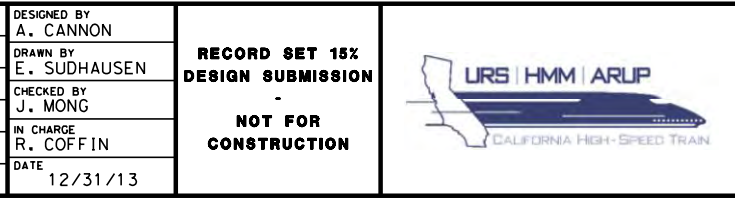
1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL

c:\pwworking\hmm\external\veron.sudhausen-arup.com\dms70628\FB-CT-2980-B1.dgn  
 \$PLTDRVS\$  
 \$PENTBLS\$  
 12/30/2013 1:06:12 AM



STATION	95	6	7	8	9	100	1	2	3	4	105	6	7	8	9	110	1	2	3	4	115	6	7	8	9	120	1	TOTAL
Exc																												
Emb																												

DESIGNED BY A. CANNON	<b>RECORD SET 15% DESIGN SUBMISSION</b>  <b>NOT FOR CONSTRUCTION</b>
DRAWN BY E. SUDHAUSEN	
CHECKED BY J. MONG	
IN CHARGE R. COFFIN	
DATE 12/31/13	

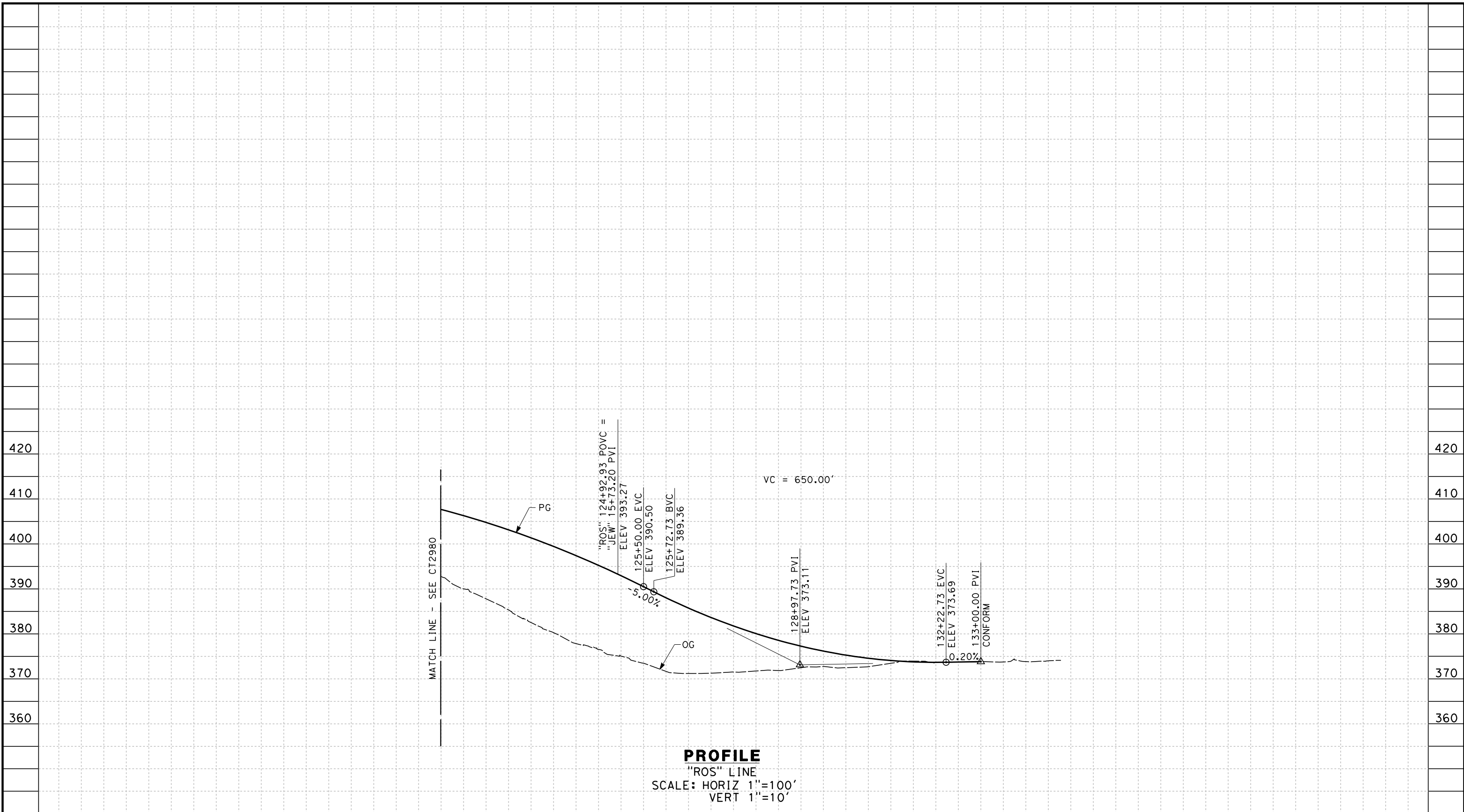


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM  
 ROSDALE HWY

CONTRACT NO. HSR 06-003
DRAWING NO. CT2980
SCALE AS SHOWN
SHEET NO. 4 OF 17



c:\pwworking\hmm\external\eron.sudhausen-arup.com\dms70628\FB-CT-2981-B1.dgn  
 \$PLTDRVS\$  
 \$PENTBLS\$  
 AM 1:07:47 2013/12/30/2013



STATION	1	2	3	4	125	6	7	8	9	130	1	2	3	4	135	TOTAL
Exc																
Emb																

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CANNON**  
 DRAWN BY  
**E. SUDHAUSEN**  
 CHECKED BY  
**J. MONG**  
 IN CHARGE  
**R. COFFIN**  
 DATE  
**12/31/13**

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

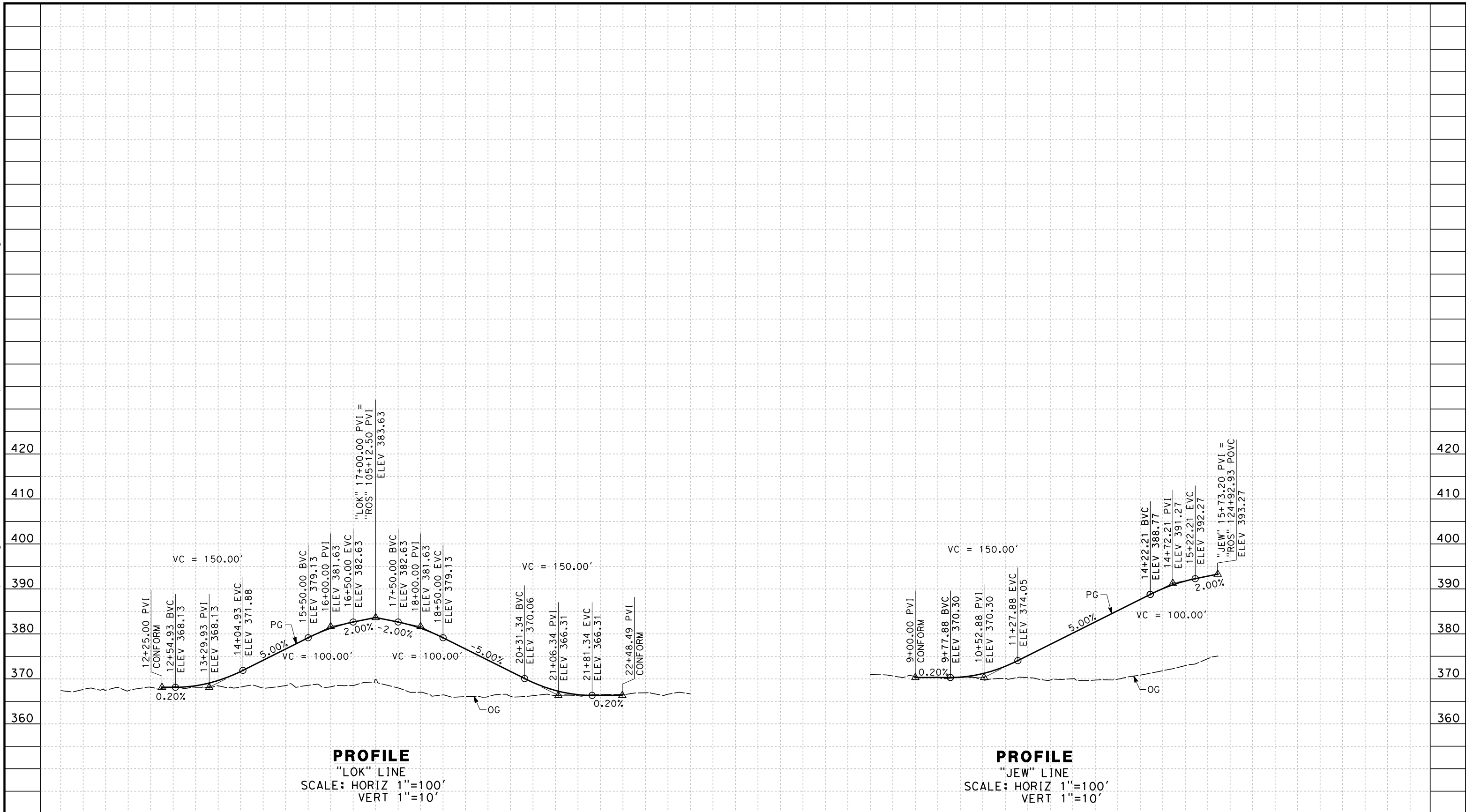


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM  
 ROSEDALE HWY

CONTRACT NO.  
 HSR 06-003  
 DRAWING NO.  
 CT2981  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 5 OF 17



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 \$PLTDRVS\$.s\$  
 \$PENTBL\$.s\$  
 eron.sudhausen 12/30/2013 2:36:27 PM



**PROFILE**  
 "LOK" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

**PROFILE**  
 "JEW" LINE  
 SCALE: HORIZ 1"=100'  
 VERT 1"=10'

STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	9	10	1	2	3	4	5	6	TOTAL
Exc																								
Emb																								

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
A. CANNON  
 DRAWN BY  
E. SUDHAUSEN  
 CHECKED BY  
J. MONG  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM  
 LONE OAK RD AND JEWETTA RD

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CT2982  
 SCALE  
AS SHOWN  
 SHEET NO.  
6 OF 17



LINE DATA

NO.	BEARING	DISTANCE
1	S 44°15'47" E	302.07'
2	S 44°16'21" E	1417.60'

CURVE DATA

NO.	R	Δ	T	L
①	2000.00'	06°04'09"	106.03'	211.85'
②	2000.00'	06°03'34"	105.86'	211.52'

ROSEDALE LN

"B1" 6800+11.00 PI=  
"WS1" 6511+99.19 PI  
"WS2" 6468+32.91 PI

HAGEMAN ROAD/BNSF RAILROAD  
GRADE SEPARATION IMPROVEMENT  
(BY OTHER)

BNSF

HST ROW

RETAINING WALL NO. 2

"B1" LINE CONFORM

"WS1" & "WS2" LINE

RETAINING WALL NO. 1

R=40'

R=35'

R=5'

"SF1" 83+70.88 PRC  
CONFORM

SANTA FE WAY

"SF1" LINE

SANTA FE WAY

"SF1" 100+00.00 PI

REMOVE CONCRETE  
MEDIAN

"SF1" 78+56.96 PI

"SF1" 81+59.03 BC

"SF1" 85+82.40 EC

90' BAY  
TAPER

R=35'

R=60'

"SF1" 99+59.93  
CONFORM

R=270'

ROADWAY ROW

TOE OF CUT

CONFORM

REMOVE CONCRETE  
MEDIAN

"SF1" 92+18.87  
CONFORM

CONFORM

REMOVE CONCRETE  
MEDIAN

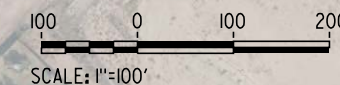
CONFORM

HAGEMAN ROAD

ALLEN ROAD

RETAINING WALL DATA

NO.	LOCATION	BEGIN	END	LENGTH	MAX HEIGHT
1	42.00' LT "SF1" 83+70.48	42.00' LT "SF1" 91+97.52	831'	20'	
2	42.00' LT "SF1" 93+84.82	42.00' LT "SF1" 99+34.02	549'	25'	
3	81.69' RT "SF1" 93+27.26	137.10' RT "SF1" 100+00.00	714'	40'	



12/27/2013 11:31:10 AM c:\pwworking\hmm\external\eron.sudhausen-arup.com\dms70628\FB-CR-1949-B1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
A. CANNON  
DRAWN BY  
E. SUDHAUSEN  
CHECKED BY  
J. MONG  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
ROADWAY LAYOUT  
SANTA FE WAY

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CR1949  
SCALE  
AS SHOWN  
SHEET NO.  
7 OF 17

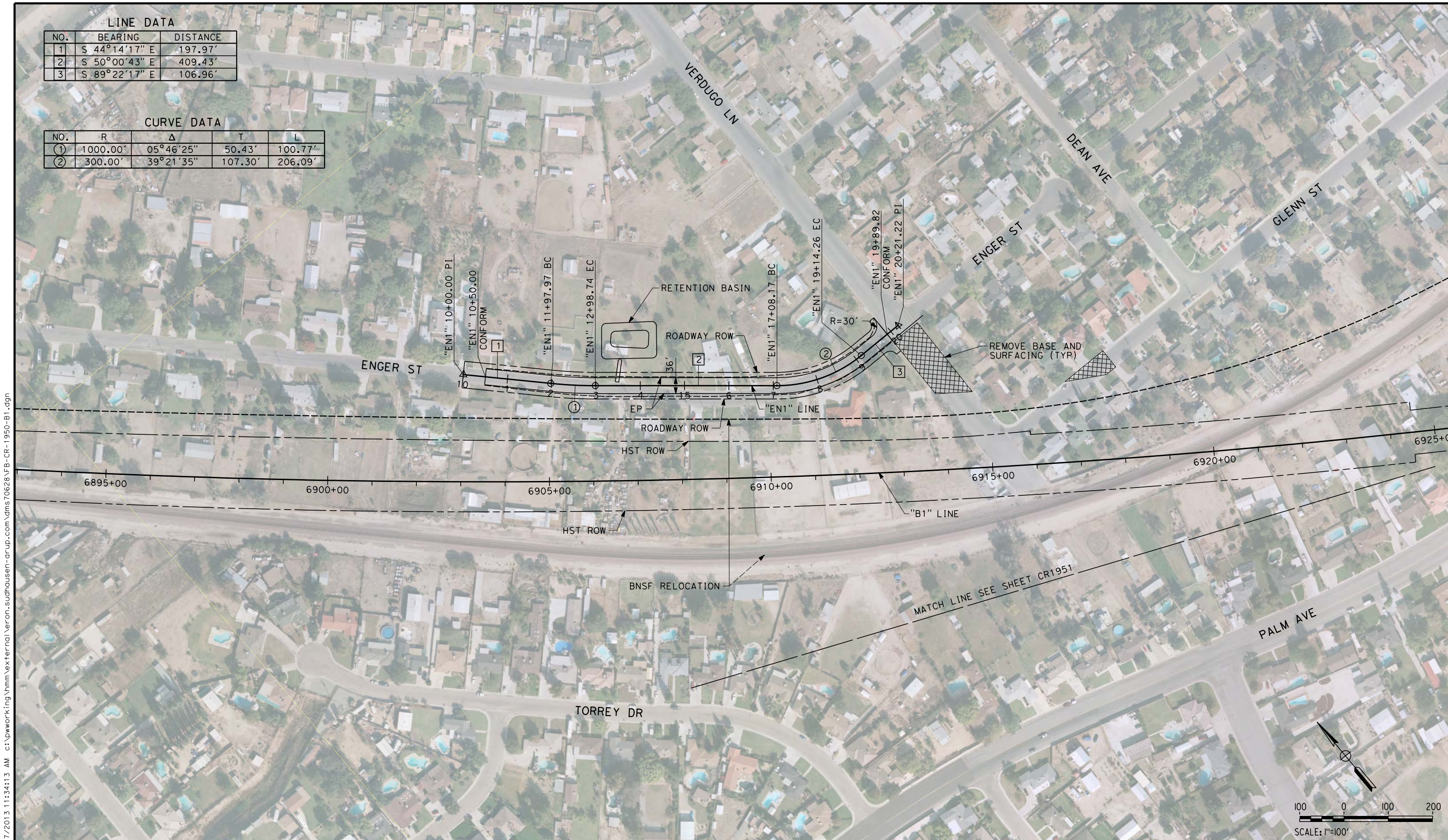


LINE DATA

NO.	BEARING	DISTANCE
1	S 44°14'17" E	197.97'
2	S 50°00'43" E	409.43'
3	S 89°22'17" E	106.96'

CURVE DATA

NO.	R	Δ	T	L
(1)	1000.00'	05°46'25"	50.43'	100.77'
(2)	300.00'	39°21'35"	107.30'	206.09'



eron\_sudhausen 12/27/2013 11:34:13 AM c:\pwworking\hmm\external\eron\_sudhausen-arup.com\dms70628\FB-CR-1950-B1.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
A. CANNON  
 DRAWN BY  
E. SUDHAUSEN  
 CHECKED BY  
J. MONG  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 ROADWAY LAYOUT  
 ENGER ST

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CR1950  
 SCALE  
AS SHOWN  
 SHEET NO.  
8 OF 17



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**LINE DATA**

NO.	BEARING	DISTANCE
1	S 01°18'02" E	389.47'
2	S 00°50'09" W	195.09'

**CURVE DATA**

NO.	R	Δ	T	L
①	1300.00'	04°34'12"	51.87'	103.69'
②	3000.00'	02°08'12"	55.94'	111.87'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
A. CANNON  
 DRAWN BY  
E. SUDHAUSEN  
 CHECKED BY  
J. MONG  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

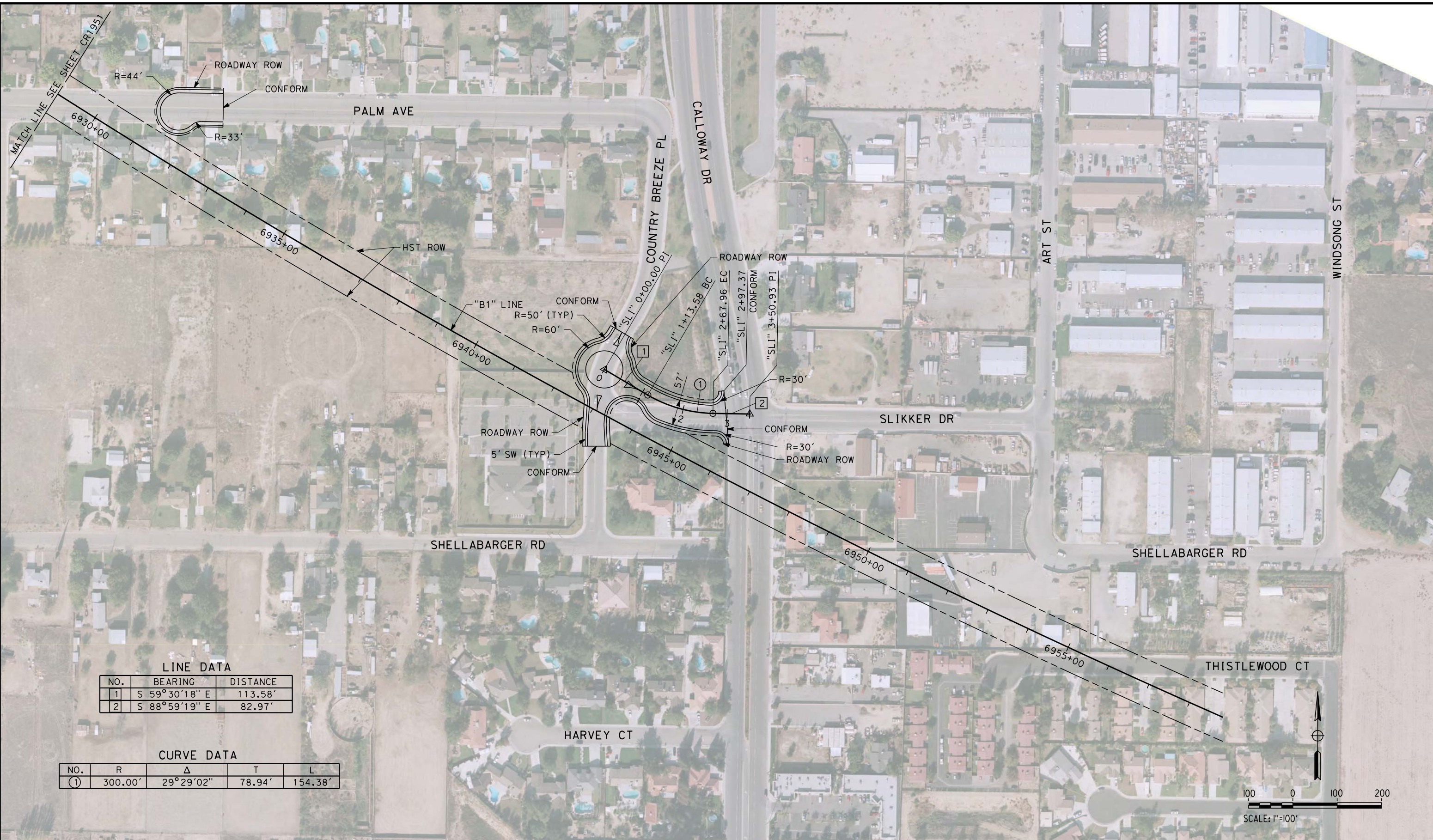


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 ROADWAY LAYOUT  
 VERDUGO LN

CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
CR1951  
 SCALE  
AS SHOWN  
 SHEET NO.  
9 OF 17



12/27/2013 11:37:57 AM c:\pwworking\hmm\external\eron.sudhausen-arup.com\dms70628\FB-CR-1952-B1.dgn



**LINE DATA**

NO.	BEARING	DISTANCE
1	S 59°30'18" E	113.58'
2	S 88°59'19" E	82.97'

**CURVE DATA**

NO.	R	Δ	T	L
(1)	300.00'	29°29'02"	78.94'	154.38'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**A. CANNON**  
DRAWN BY  
**E. SUDHAUSEN**  
CHECKED BY  
**J. MONG**  
IN CHARGE  
**R. COFFIN**  
DATE  
**12/31/13**

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
ROADWAY LAYOUT  
SLIKKER DR

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CR1952  
SCALE  
AS SHOWN  
SHEET NO.  
10 OF 17





REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
 A. CANNON  
 DRAWN BY  
 E. SUDHAUSEN  
 CHECKED BY  
 J. MONG  
 IN CHARGE  
 R. COFFIN  
 DATE  
 12/31/13

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

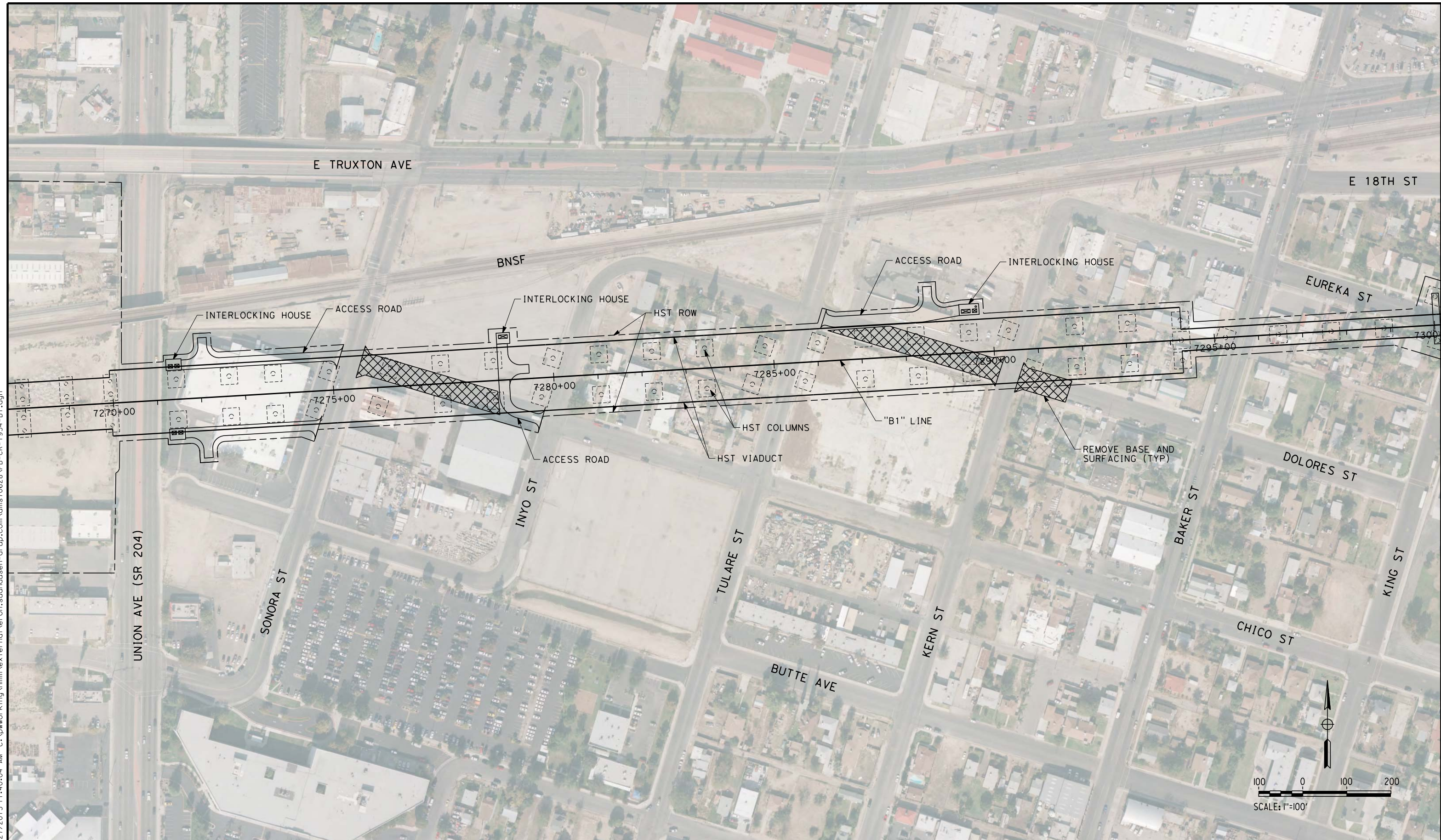


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 ROADWAY LAYOUT  
 N-ST PEDESTRIAN BRIDGE

CONTRACT NO.  
 HSR 06-003  
 DRAWING NO.  
 CR1953  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 11 OF 17



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
A. CANNON  
DRAWN BY  
E. SUDHAUSEN  
CHECKED BY  
J. MONG  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**

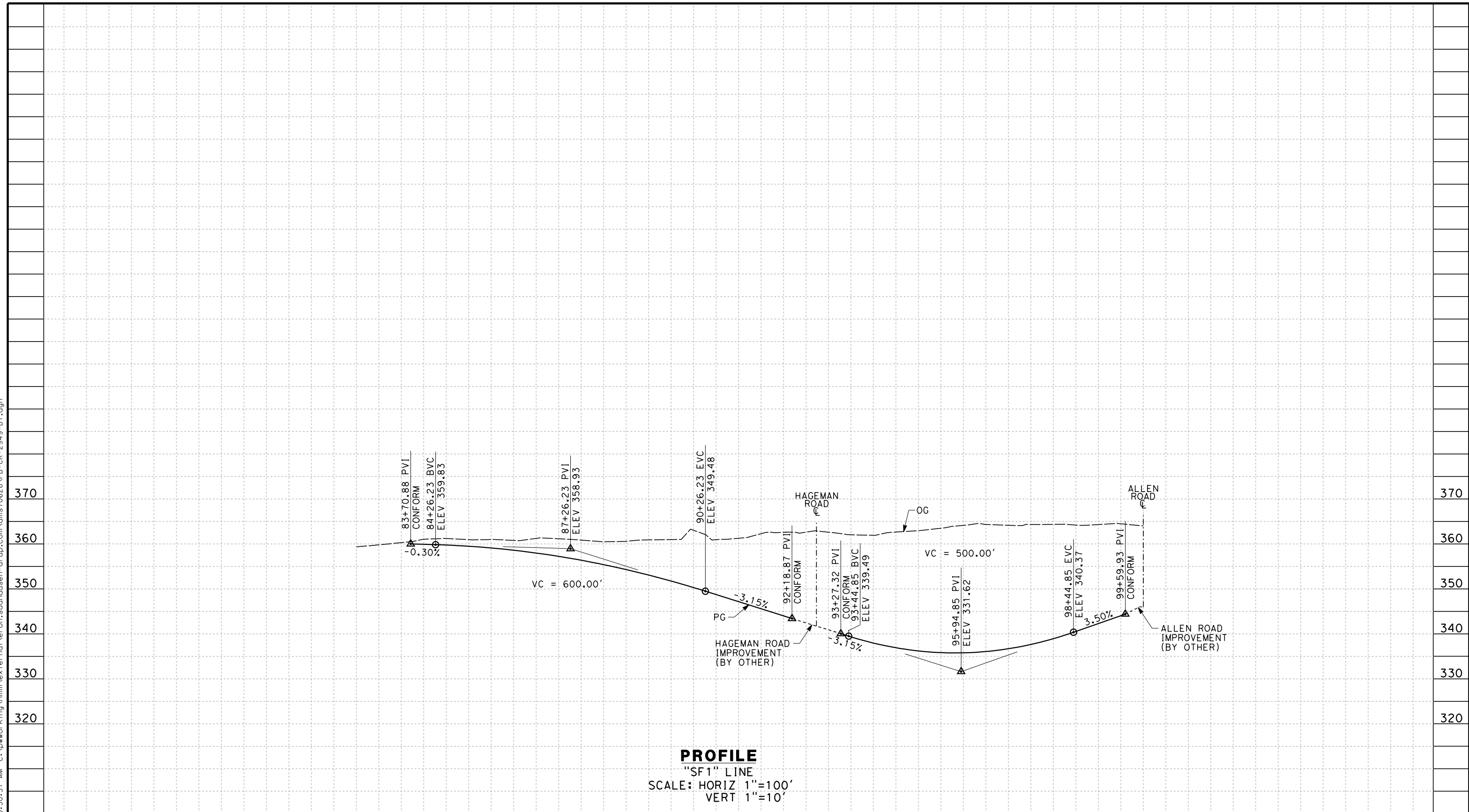


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
ROADWAY LAYOUT  
EAST BAKERSFIELD DETAIL

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CR1954  
SCALE  
AS SHOWN  
SHEET NO.  
12 OF 17



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STATION	3	4	85	6	7	8	9	90	1	2	3	4	95	6	7	8	9	100	TOTAL
Exc																			
Emb																			

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
A. CANNON  
 DRAWN BY  
E. SUDHAUSEN  
 CHECKED BY  
J. MONG  
 IN CHARGE  
R. COFFIN  
 DATE  
12/31/13

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

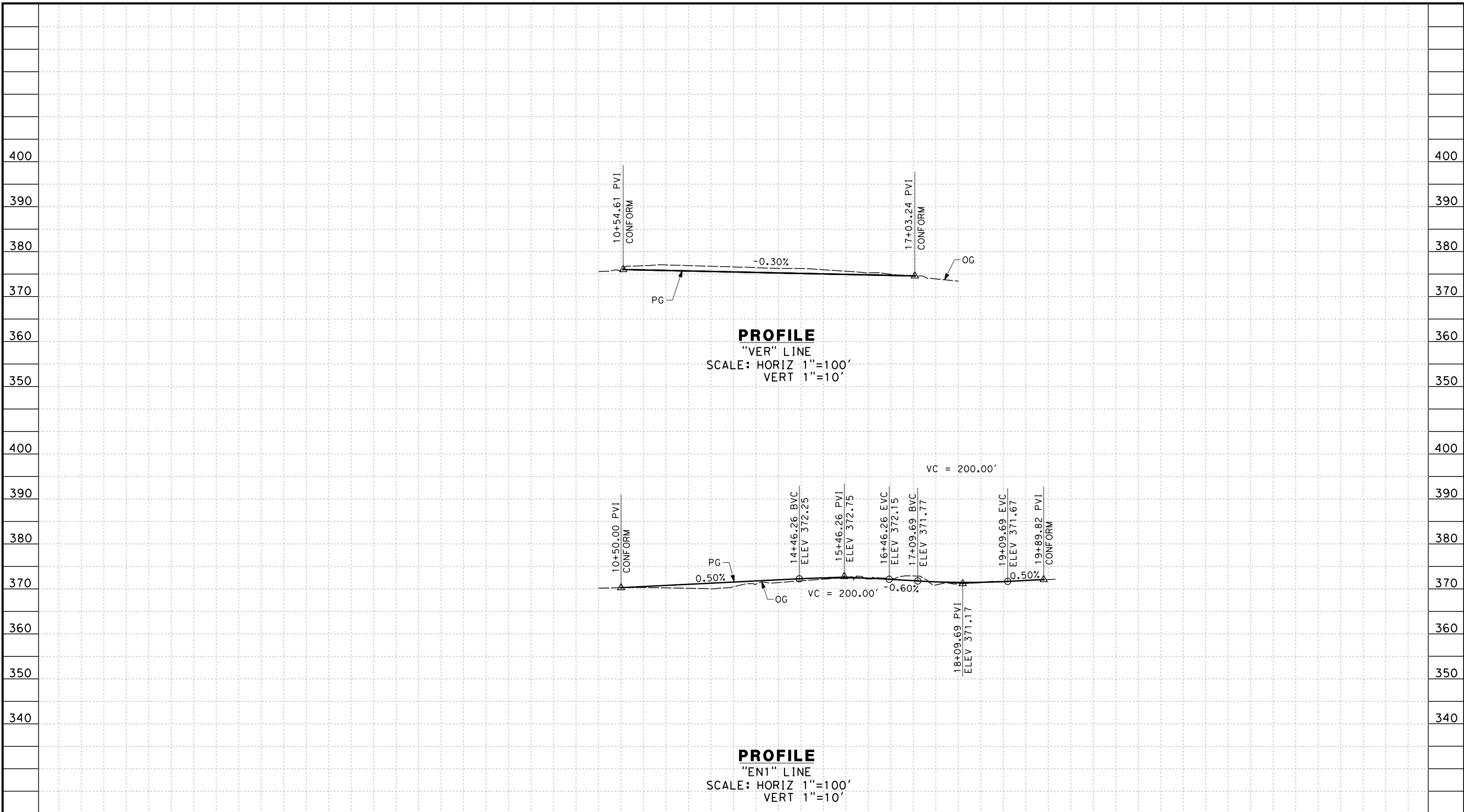


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 ROADWAY PROFILE  
 SANTA FE WAY

CONTRACT NO.  
HSR 06-003  
 DRAWING NO.  
CR2949  
 SCALE  
AS SHOWN  
 SHEET NO.  
13 OF 17



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 \$PENTBL\$  
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STATION	9	10	1	2	3	4	15	6	7	8	9	20	TOTAL
Exc													
Emb													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
 A. CANNON  
 DRAWN BY  
 E. SUDHAUSEN  
 CHECKED BY  
 J. MONG  
 IN CHARGE  
 R. COFFIN  
 DATE  
 12/31/13

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

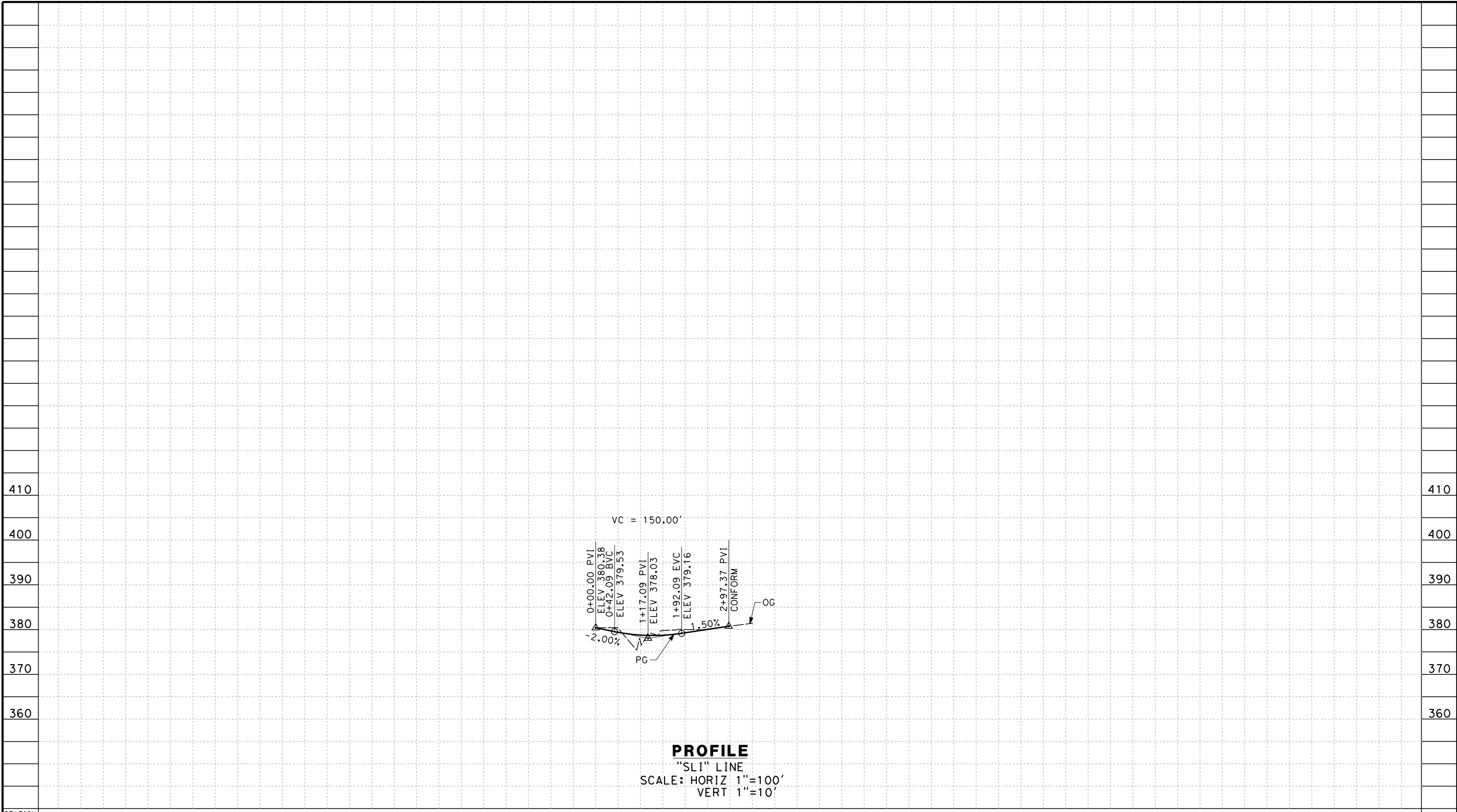


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 BAKERSFIELD URBAN SUBSECTION  
 ALIGNMENT B1  
 ROADWAY PROFILE  
 ENGER ST AND VERDUGO LN

CONTRACT NO.  
 HSR 06-0003  
 DRAWING NO.  
 CR2950  
 SCALE  
 AS SHOWN  
 SHEET NO.  
 14 OF 17



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**PROFILE**

"SLI" LINE  
SCALE: HORIZ 1"=100'  
VERT 1"=10'

STATION	0	1	2	3	4	5	TOTAL
Exc							
Emb							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
A. CANNON

DRAWN BY  
E. SUDHAUSEN

CHECKED BY  
J. MONG

IN CHARGE  
R. COFFIN

DATE  
12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



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

BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
ROADWAY PROFILE  
SLIKKER DR

CONTRACT NO.  
HSR 06-003

DRAWING NO.  
CR2952

SCALE  
AS SHOWN

SHEET NO.  
15 OF 17

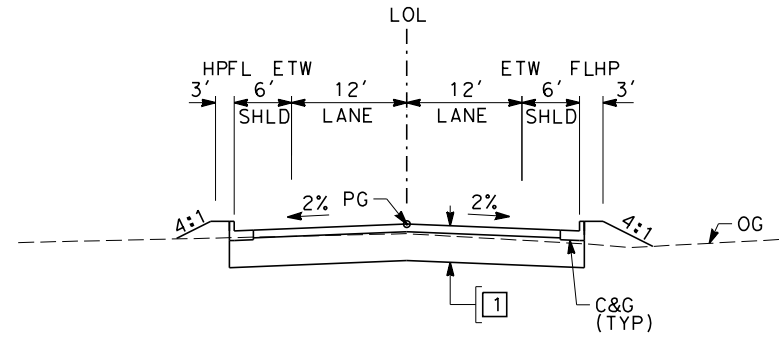


**NOTES:**

1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSION AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.
3. PEDESTRIAN FACILITIES WILL BE DESIGNED TO COMPLY WITH ADA REQUIREMENTS.

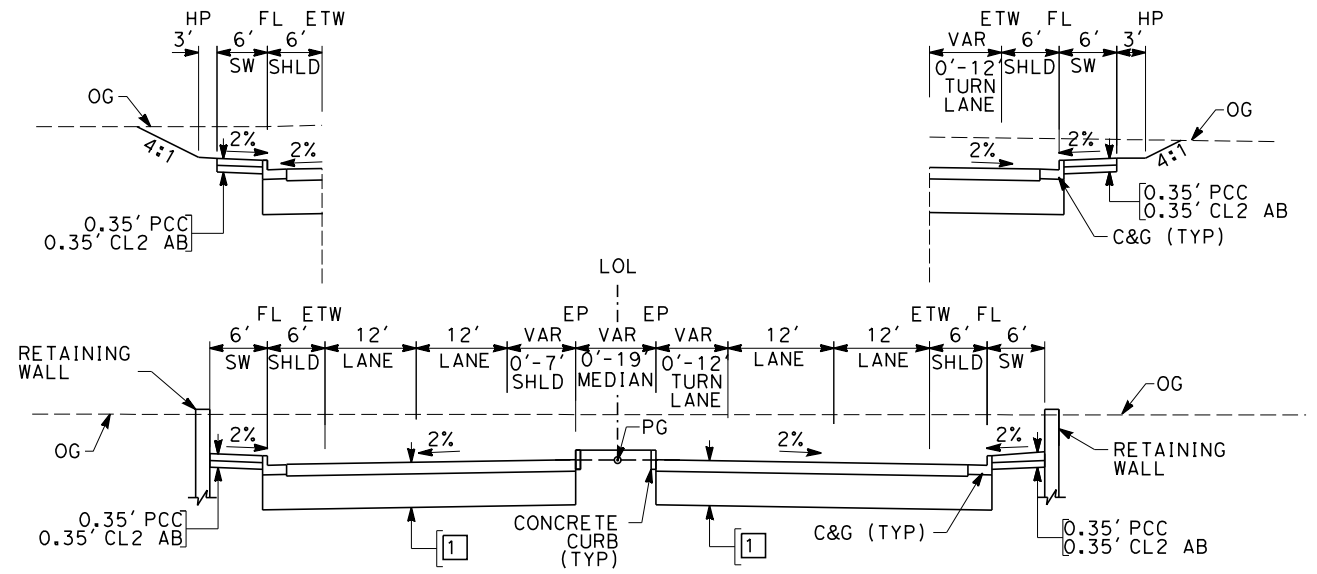
**STRUCTURAL SECTIONS**  
TYPICAL ROADWAY

- 1 0.50' HMA (TYPE A)
- 1 1.00' CL2 AB



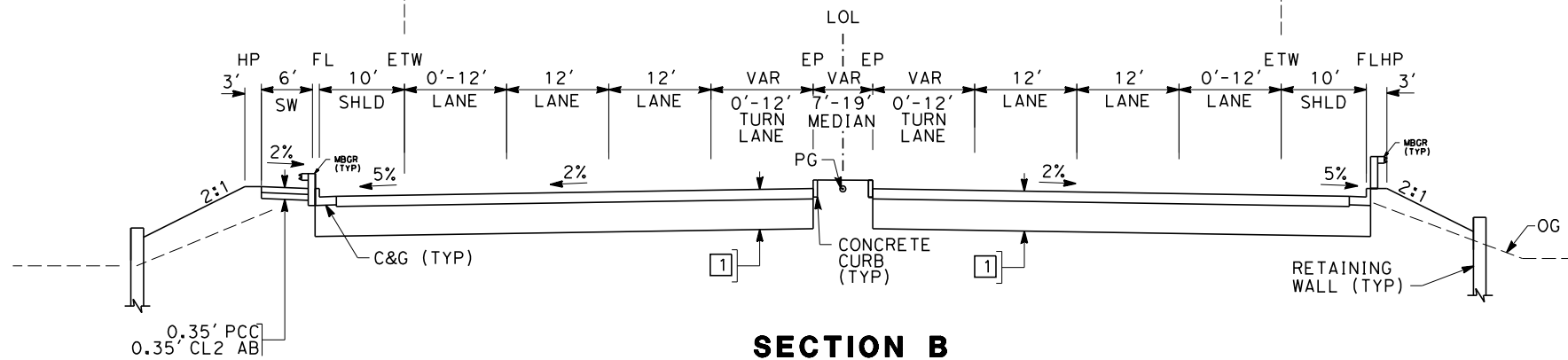
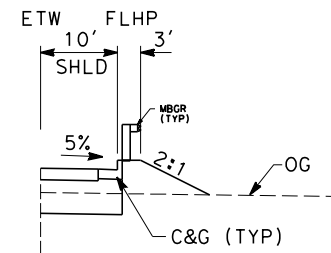
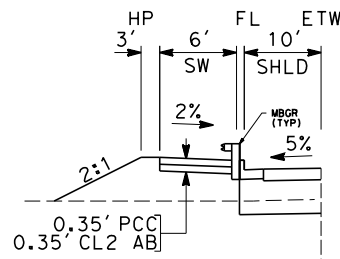
**SECTION A**

"EN1" 10+50.00 TO 19+89.82



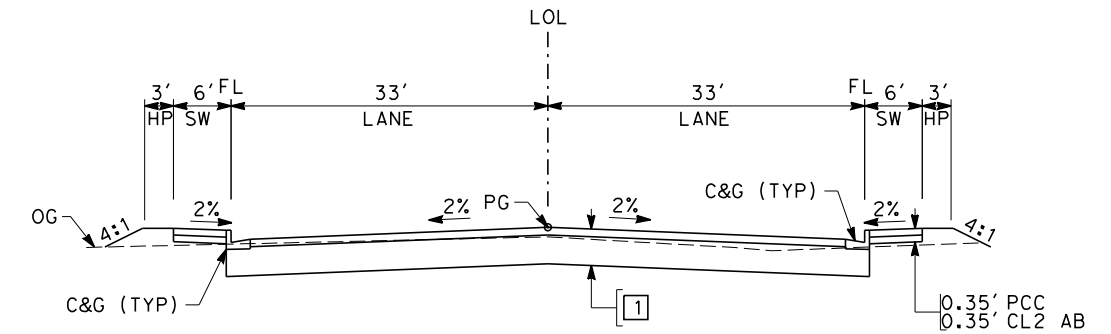
**SECTION C**

"SF1" 83+70.88 TO 92+18.87  
"SF1" 93+27.32 TO 99+59.93



**SECTION B**

"ROS" 98+00.00 TO 114+15.50  
"ROS" 119+75.50 TO 133+00.00



**SECTION D**

"VER" 10+54.61 TO 17+03.24

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY J. MONG
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
ROADWAY / GRADE SEPARATION  
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3170
SCALE AS SHOWN
SHEET NO. 16 OF 17

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**NOTES:**

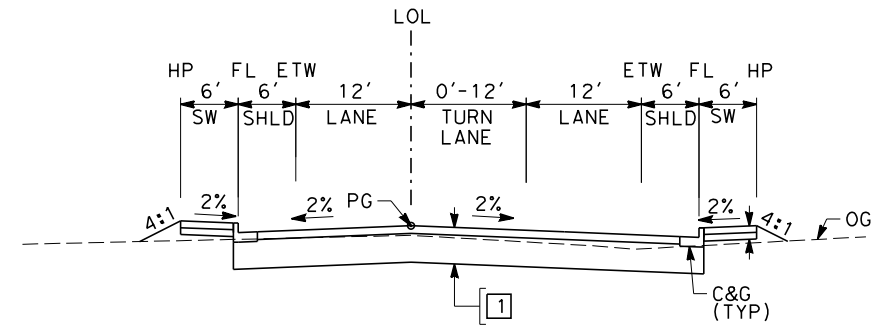
1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSION AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.
3. PEDESTRIAN FACILITIES WILL BE DESIGNED TO COMPLY WITH ADA REQUIREMENTS.

**STRUCTURAL SECTIONS  
TYPICAL ROADWAY**

- 1 0.50' HMA (TYPE A)
- 1.00' CL2 AB

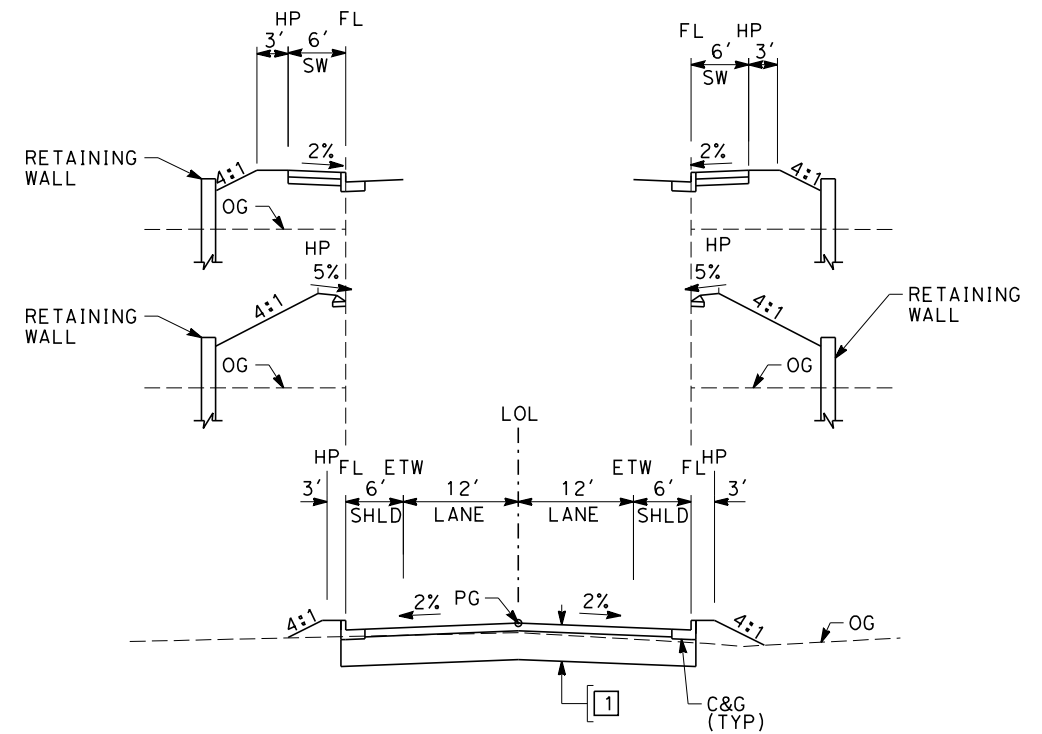
TABLE OF DESIGN SPEEDS

STREET NAME	ALIGNMENT DESIGNATION	DESIGN SPEED	CRITERIA/JURISDICTION
ROSEDALE HWY	ROS	55	CITY OF BAKERSFIELD/CITY OF BAKERSFIELD
LONE OAK DR	LOK	25	CITY OF BAKERSFIELD/CITY OF BAKERSFIELD
JEWETTA AVE	JEW	25	CITY OF BAKERSFIELD/CITY OF BAKERSFIELD
SANTA FE WAY	SF1	40	CITY OF BAKERSFIELD/CITY OF BAKERSFIELD
ENGER ST	EN1	25	CITY OF BAKERSFIELD/CITY OF BAKERSFIELD
VERDUGO LN	VER	25	CITY OF BAKERSFIELD/CITY OF BAKERSFIELD
SLIKKER DR	SLI	25	CITY OF BAKERSFIELD/CITY OF BAKERSFIELD



**SECTION E**

"SLI" 1+57.42 TO 2+67.96



**SECTION F**

"LOK" 12+25.00 TO 22+48.49  
"JEW" 9+00.00 TO 15+73.20

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
A. CANNON  
DRAWN BY  
E. SUDHAUSEN  
CHECKED BY  
J. MONG  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

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



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
BAKERSFIELD URBAN SUBSECTION  
ALIGNMENT B1  
ROADWAY / GRADE SEPARATION  
TYPICAL CROSS SECTIONS

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
CT3171  
SCALE  
AS SHOWN  
SHEET NO.  
17 OF 17