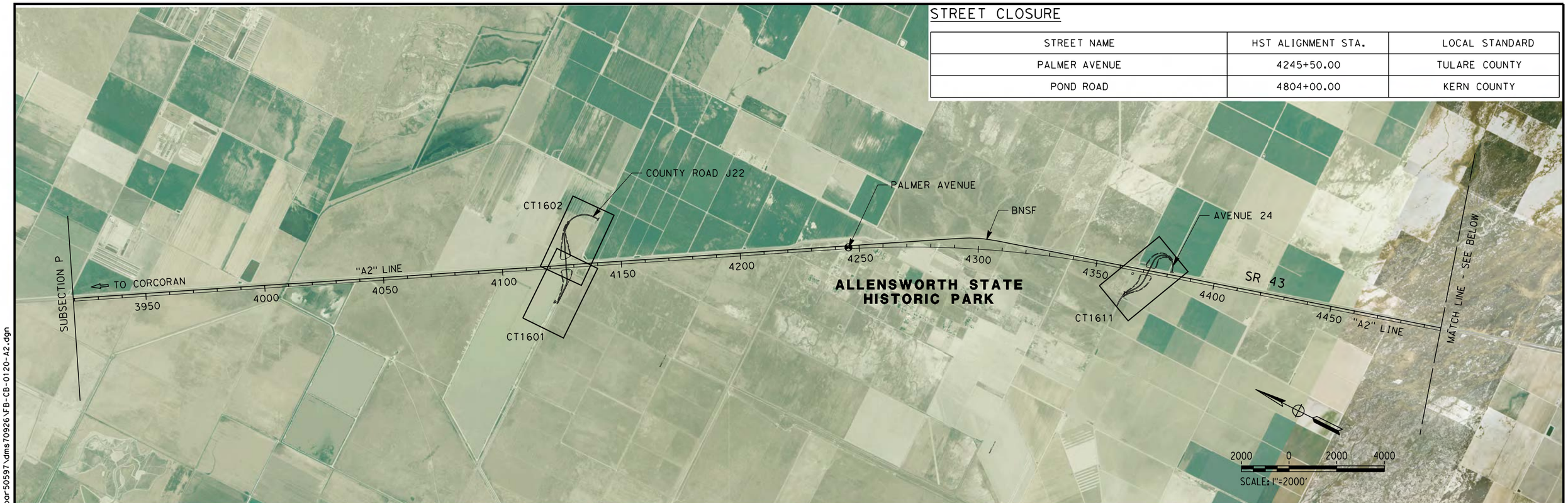
STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.	LOCAL STANDARD
PALMER AVENUE	4245+50.00	TULARE COUNTY
POND ROAD	4804+00.00	KERN COUNTY



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
ROADWAY/GRADE SEPARATION
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0120
SCALE AS SHOWN
SHEET NO. 1 OF 21

BAR50597 12/30/2013 12:34:06 PM CAHSRP-r1.tbl CHSR_PDF_half_black.pltc:\pwworking\hmm\external\bar50597\dms70926\FB-CB-0120-A2.dgn

LINE DATA

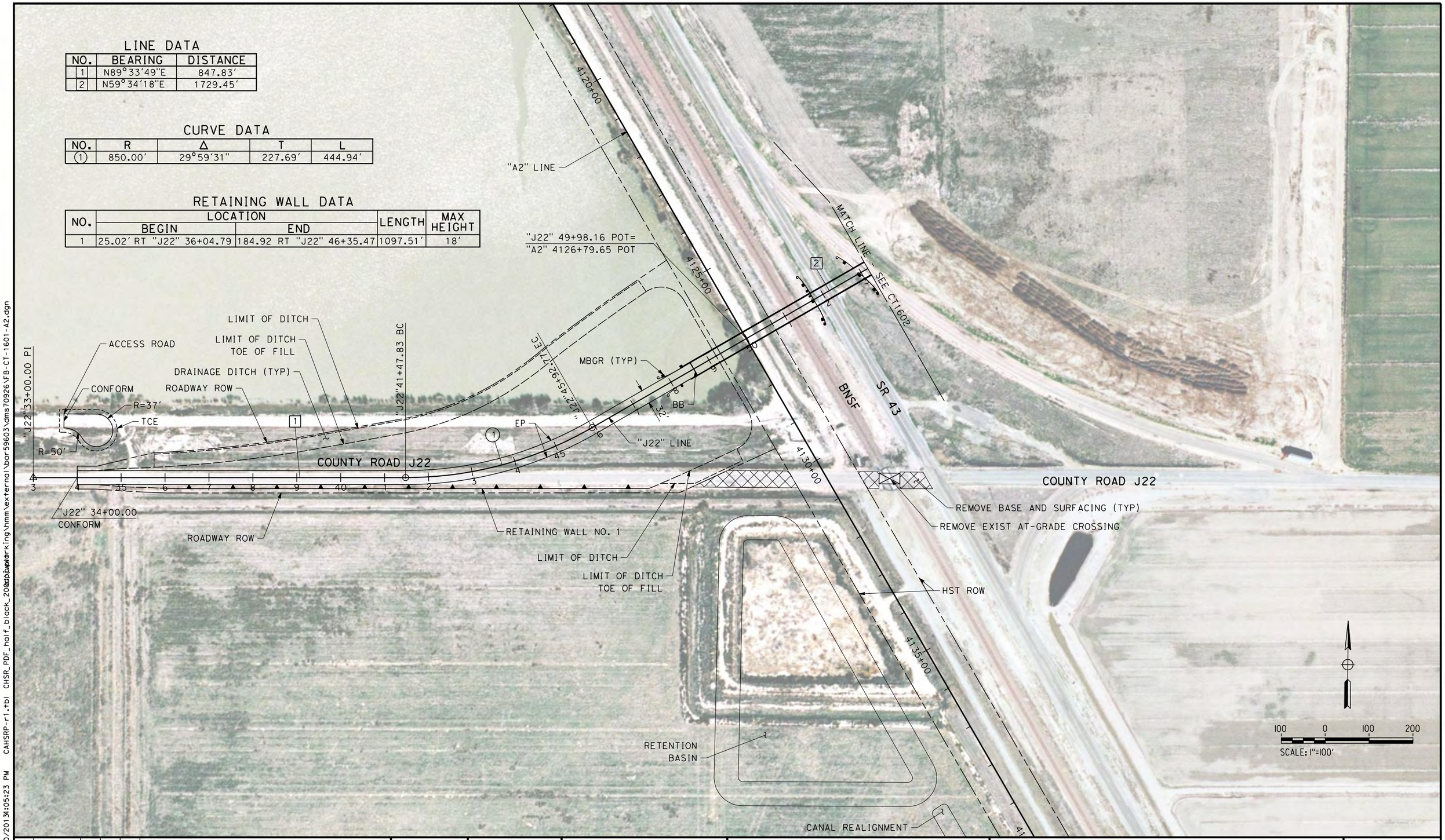
NO.	BEARING	DISTANCE
1	N89°33'49"E	847.83'
2	N59°34'18"E	1729.45'

CURVE DATA

NO.	R	Δ	T	L
1	850.00'	29°59'31"	227.69'	444.94'

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	25.02' RT "J22" 36+04.79	184.92 RT "J22" 46+35.47	1097.51'	18'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
COUNTY RD J22

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1601
SCALE AS SHOWN
SHEET NO. 2 of 21

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LINE DATA

NO.	BEARING	DISTANCE
2	N59°34'18"E	1729.45'
3	S00°59'32"E	328.75'

CURVE DATA

NO.	R	Δ	T	L
2	850.00'	119°26'10"	1455.65'	1771.87'

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
2	67.90 LT "J22" 54+54.96	197.63 RT "J22" 54+67.99	289'	25'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
COUNTY RD J22

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1602
SCALE AS SHOWN
SHEET NO. 3 OF 21

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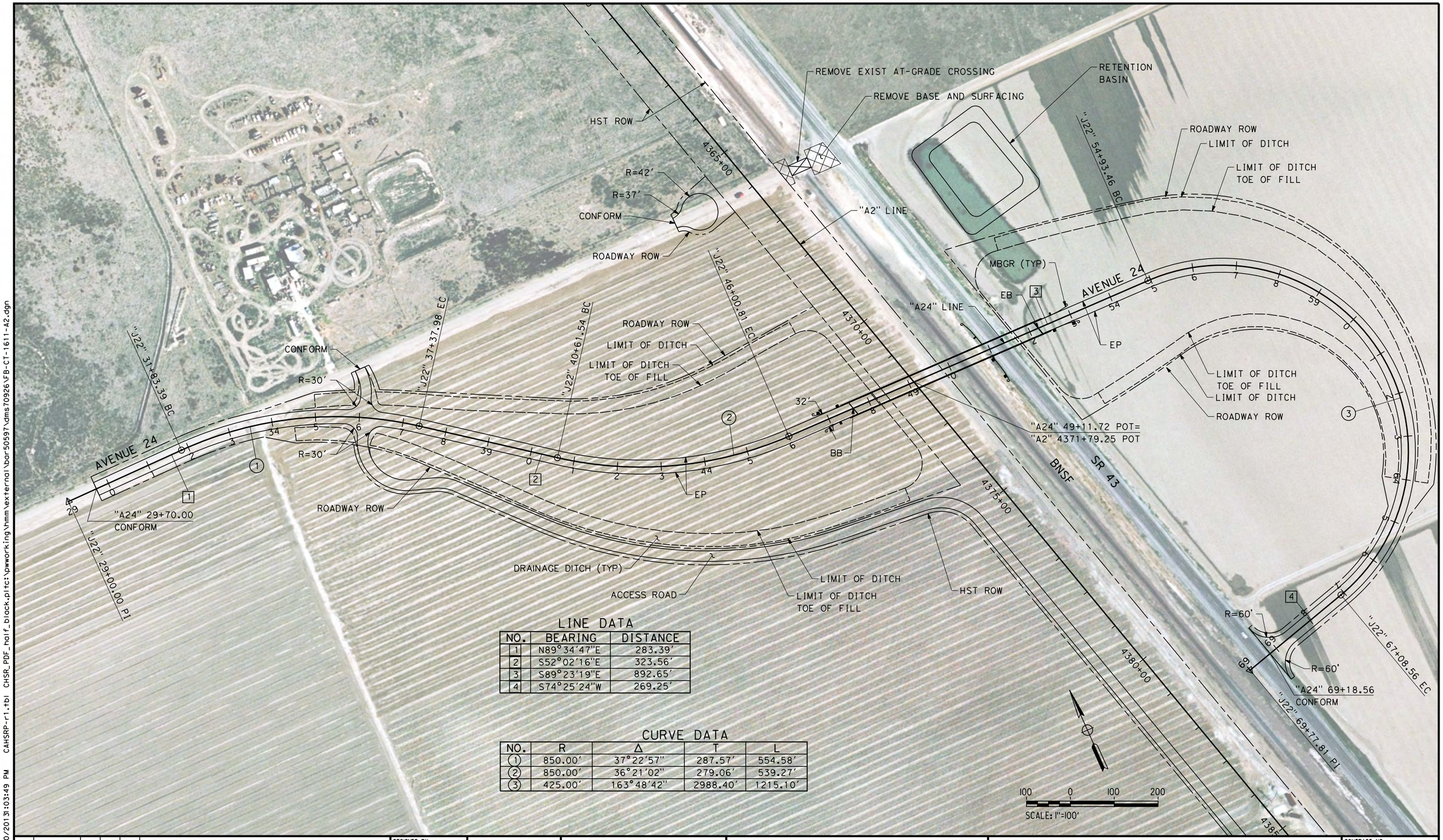

LINE DATA

NO.	BEARING	DISTANCE
1	N89°34'47"E	283.39'
2	S52°02'16"E	323.56'
3	S89°23'19"E	892.65'
4	S74°25'24"W	269.25'

CURVE DATA

NO.	R	Δ	T	L
1	850.00'	37°22'57"	287.57'	554.58'
2	850.00'	36°21'02"	279.06'	539.27'
3	425.00'	163°48'42"	2988.40'	1215.10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
AVE 24

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1611
SCALE AS SHOWN
SHEET NO. 4 OF 21

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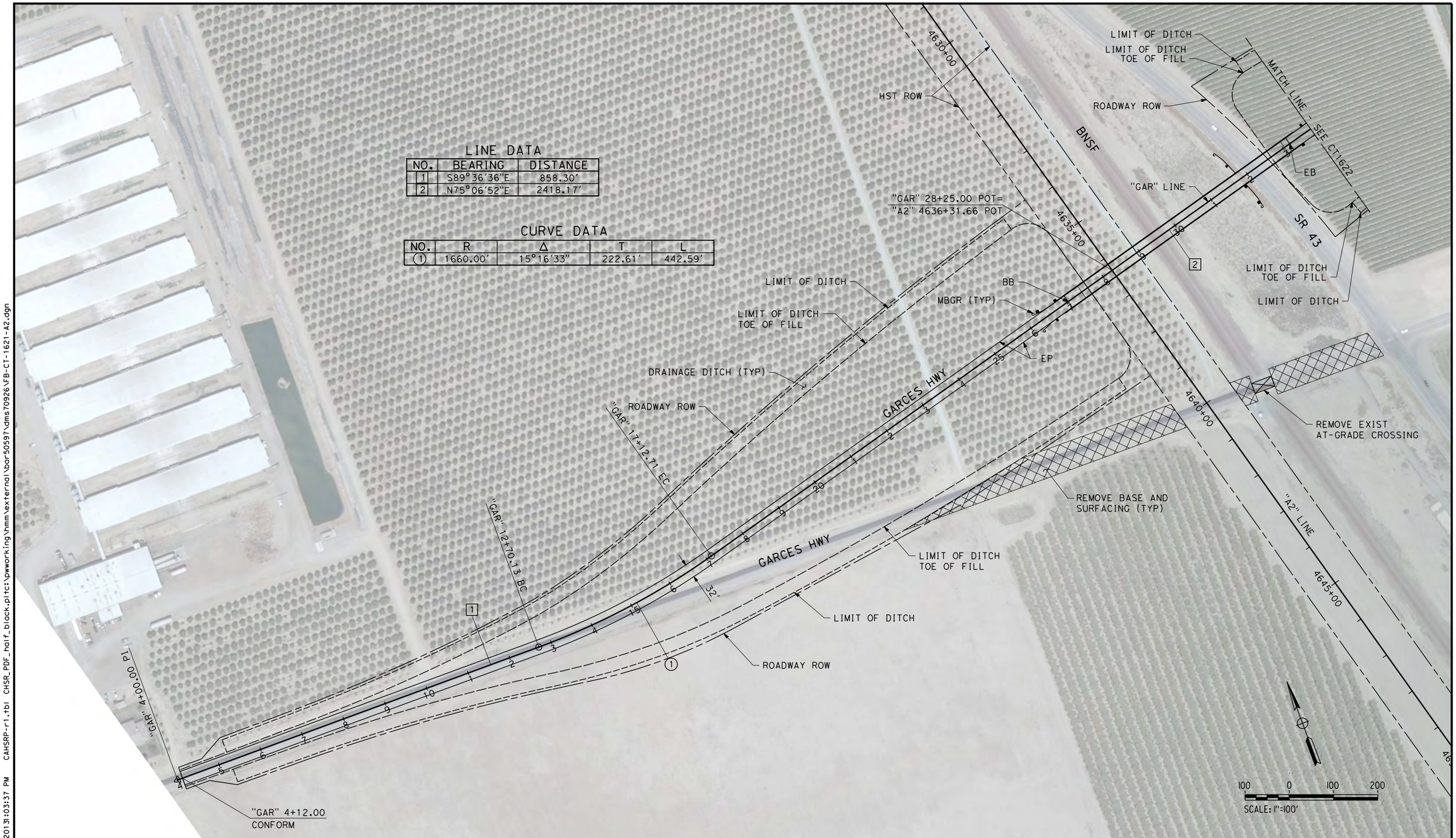

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
GARCES HWY

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1621
SCALE AS SHOWN
SHEET NO. 5 OF 21

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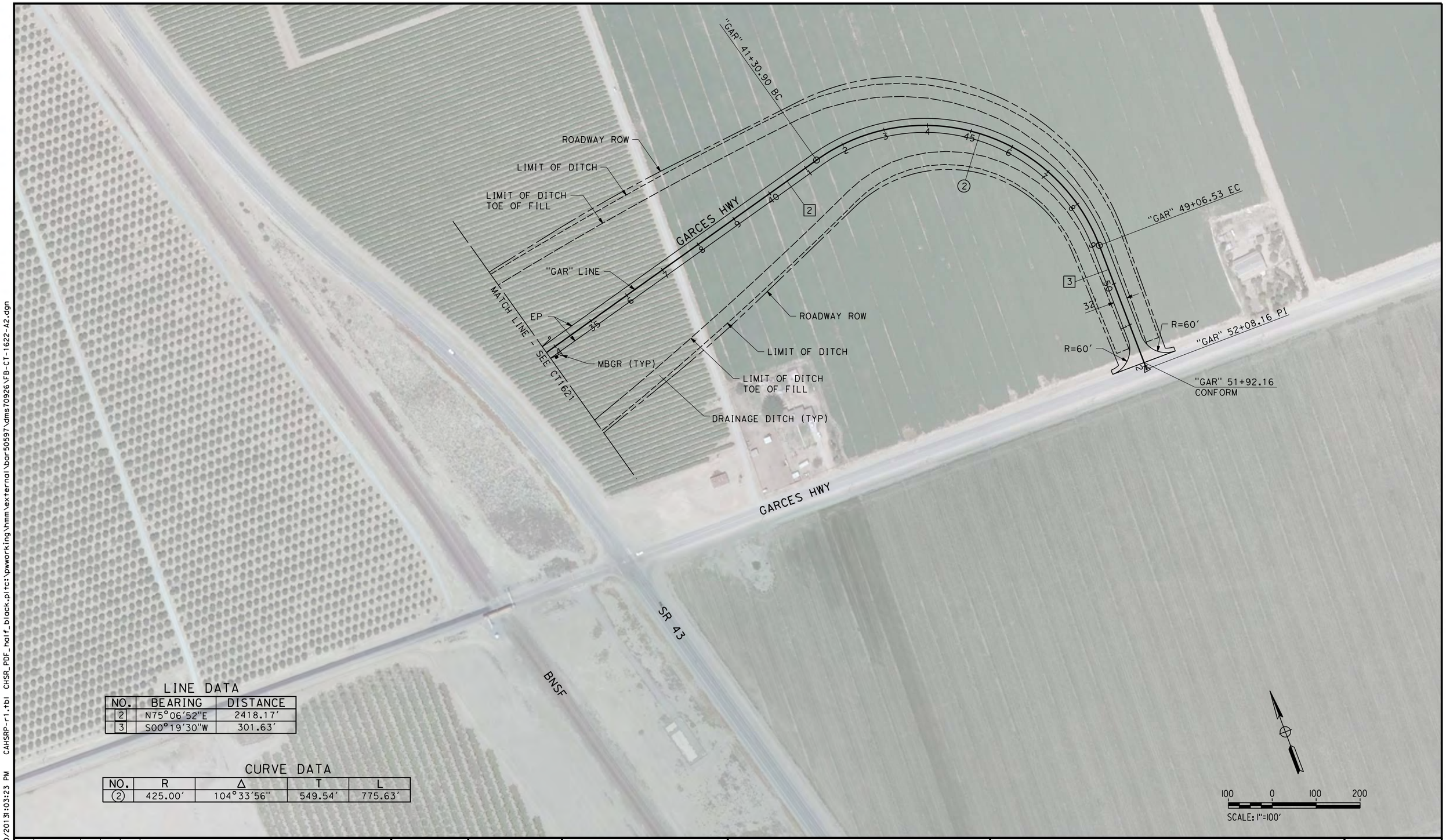

LINE DATA

NO.	BEARING	DISTANCE
2	N75°06'52"E	2418.17'
3	S00°19'30"W	301.63'

CURVE DATA

NO.	R	Δ	T	L
(2)	425.00'	104°33'56"	549.54'	775.63'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
GARCES HWY

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1622
SCALE AS SHOWN
SHEET NO. 6 OF 21

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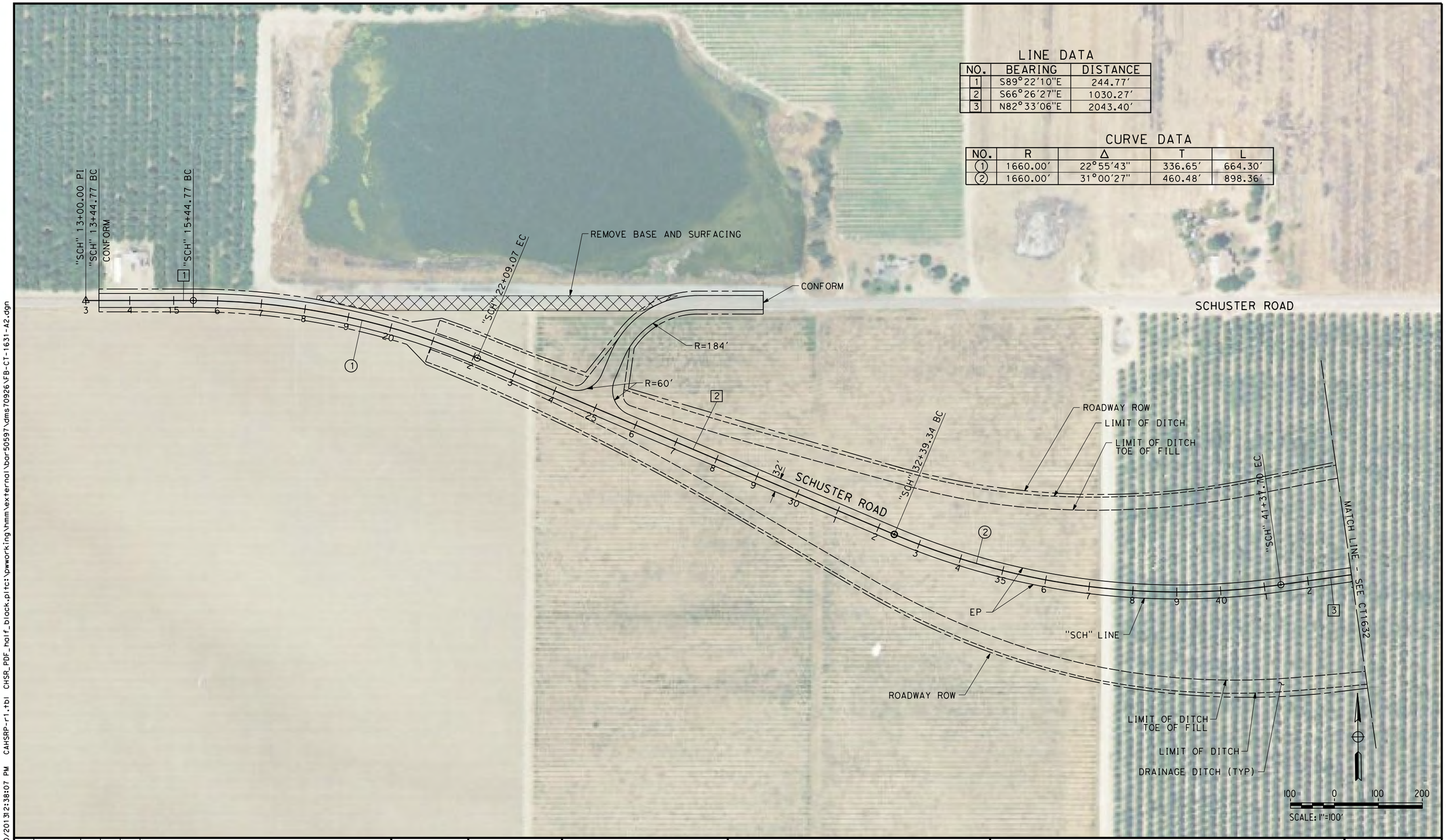

LINE DATA

NO.	BEARING	DISTANCE
1	S89°22'10"E	244.77'
2	S66°26'27"E	1030.27'
3	N82°33'06"E	2043.40'

CURVE DATA

NO.	R	Δ	T	L
1	1660.00'	22°55'43"	336.65'	664.30'
2	1660.00'	31°00'27"	460.48'	898.36'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
SCHUSTER RD

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1631
SCALE AS SHOWN
SHEET NO. 7 OF 21

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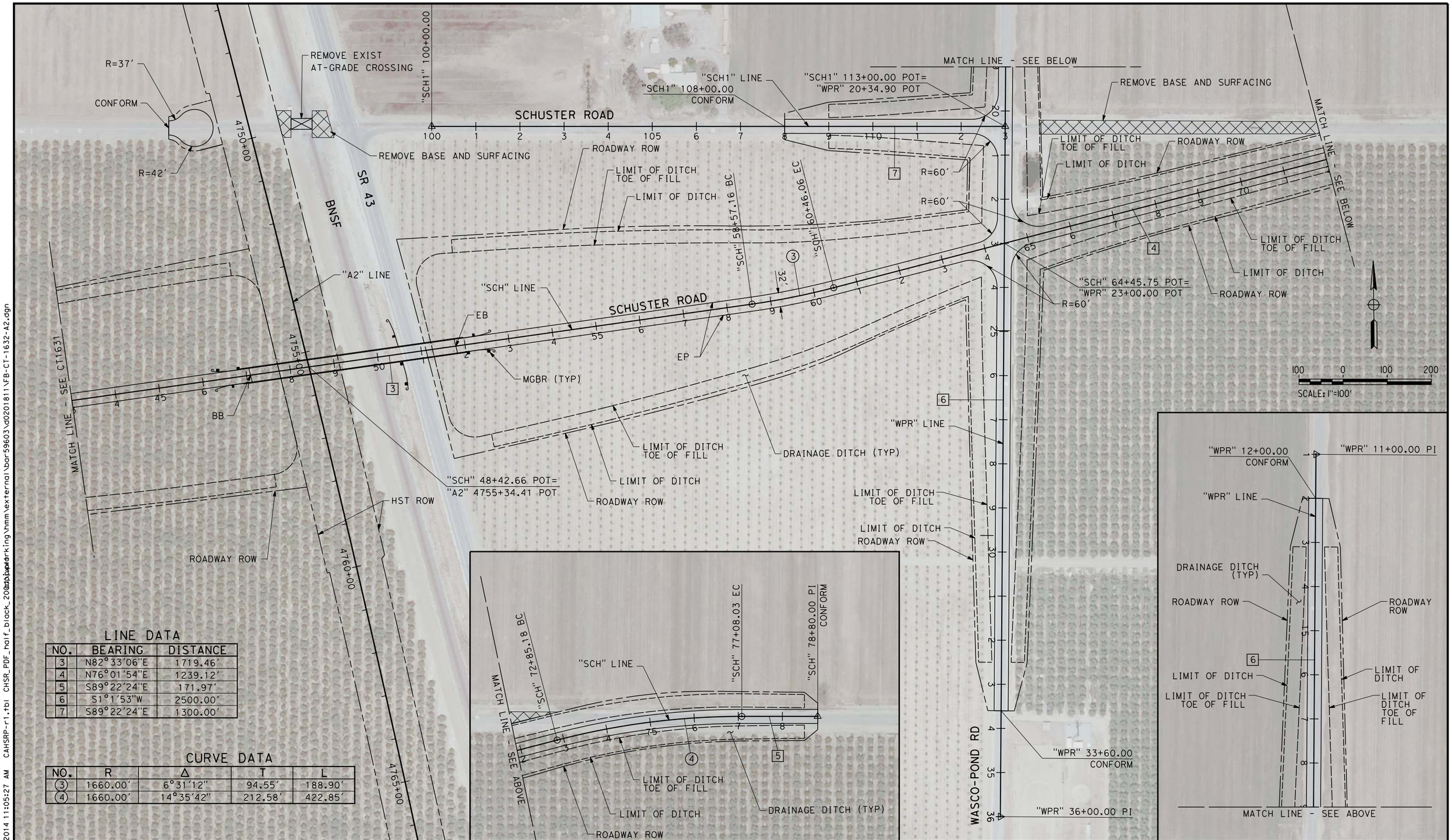

LINE DATA

NO.	BEARING	DISTANCE
3	N82°33'06"E	1719.46'
4	N76°01'54"E	1239.12'
5	S89°22'24"E	171.97'
6	S1°1'53"W	2500.00'
7	S89°22'24"E	1300.00'

CURVE DATA

NO.	R	Δ	T	L
3	1660.00'	6°31'12"	94.55'	188.90'
4	1660.00'	14°35'42"	212.58'	422.85'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 03/19/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
SCHUSTER RD

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1632
SCALE AS SHOWN
SHEET NO. 8 OF 21

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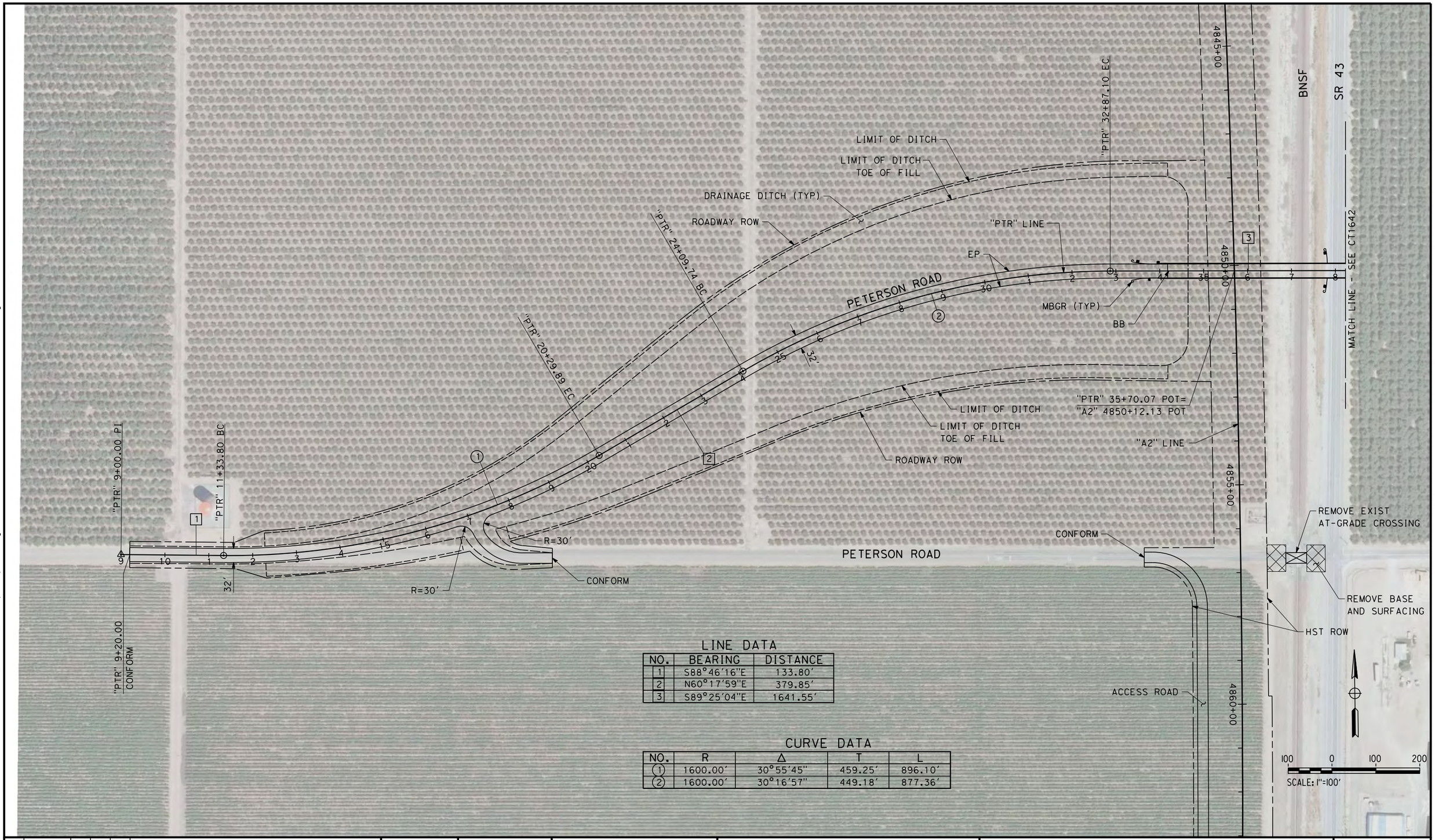

LINE DATA

NO.	BEARING	DISTANCE
1	S88°46'16"E	133.80'
2	N60°17'59"E	379.85'
3	S89°25'04"E	1641.55'

CURVE DATA

NO.	R	Δ	T	L
1	1600.00'	30°55'45"	459.25'	896.10'
2	1600.00'	30°16'57"	449.18'	877.36'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
PETERSON RD

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1641
SCALE AS SHOWN
SHEET NO. 9 OF 21

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LINE DATA

NO.	BEARING	DISTANCE
3	S89°25'04"E	1641.55'
4	S00°40'00"W	225.85'

CURVE DATA

NO.	R	Δ	T	L
3	425.00'	90°05'04"	425.63'	668.22'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION LAYOUT
PETERSON RD

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1642
SCALE AS SHOWN
SHEET NO. 10 OF 21

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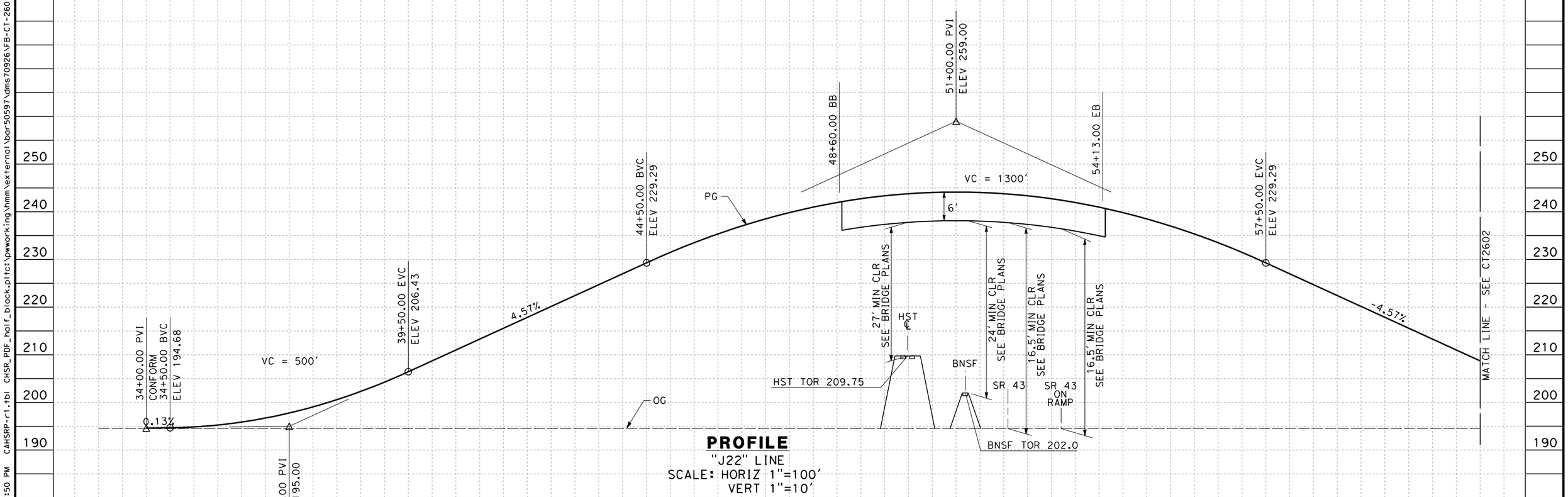
NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 24' FROM TOP OF RAIL.
3. MIN VERTICAL CLEARANCE OVER SR 43 IS 16.5' FROM ROADWAY SURFACE.



PROFILE

"J22" LINE

SCALE: HORIZ 1"=100'

VERT 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION PROFILE
COUNTY RD J22

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2601
SCALE AS SHOWN
SHEET NO. 11 OF 21

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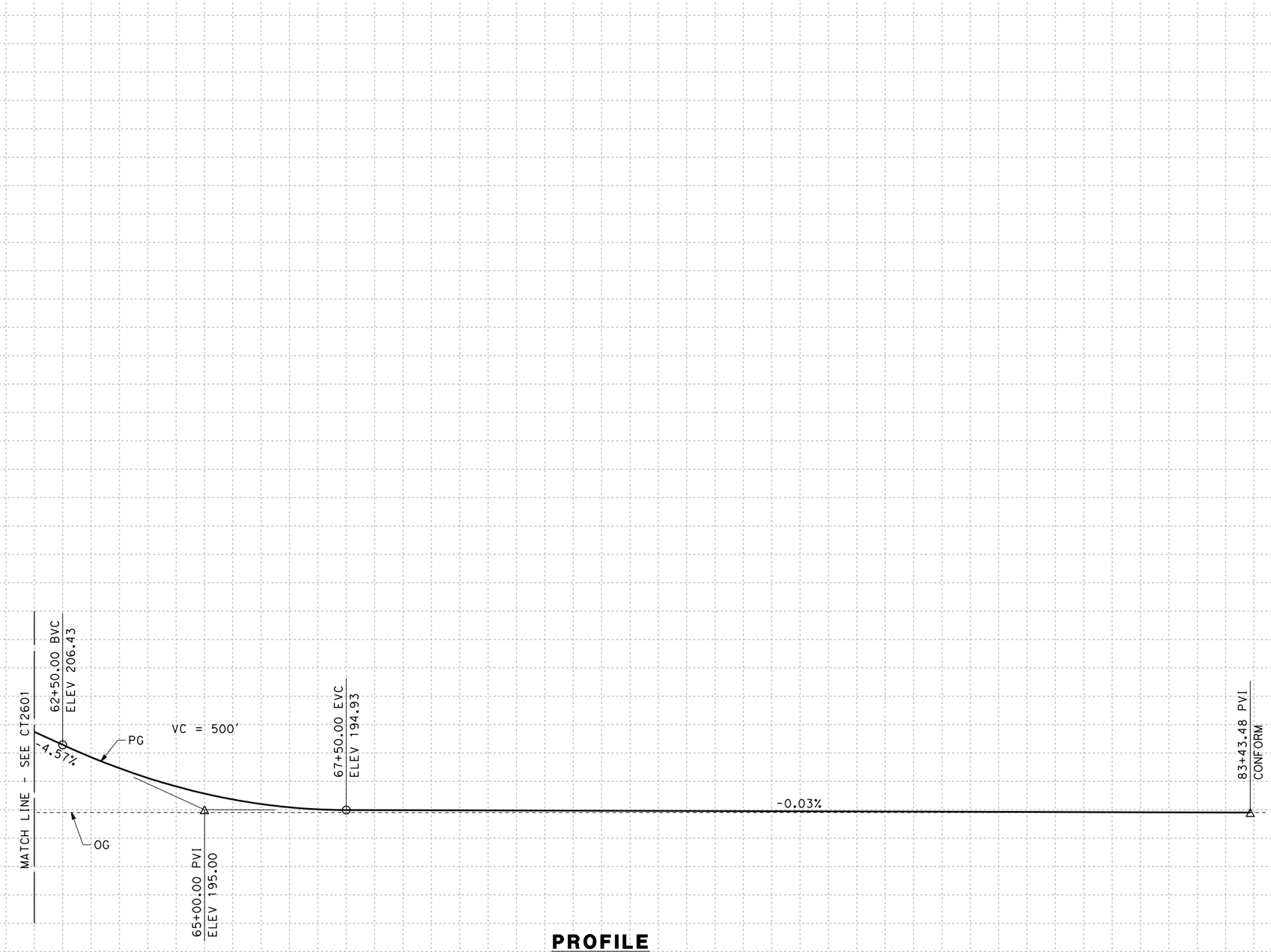

PROFILE

"J22" LINE

SCALE: HORIZ 1"=100'

VERT 1"=10'

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION PROFILE
COUNTY RD J22

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2602
SCALE AS SHOWN
SHEET NO. 12 OF 21

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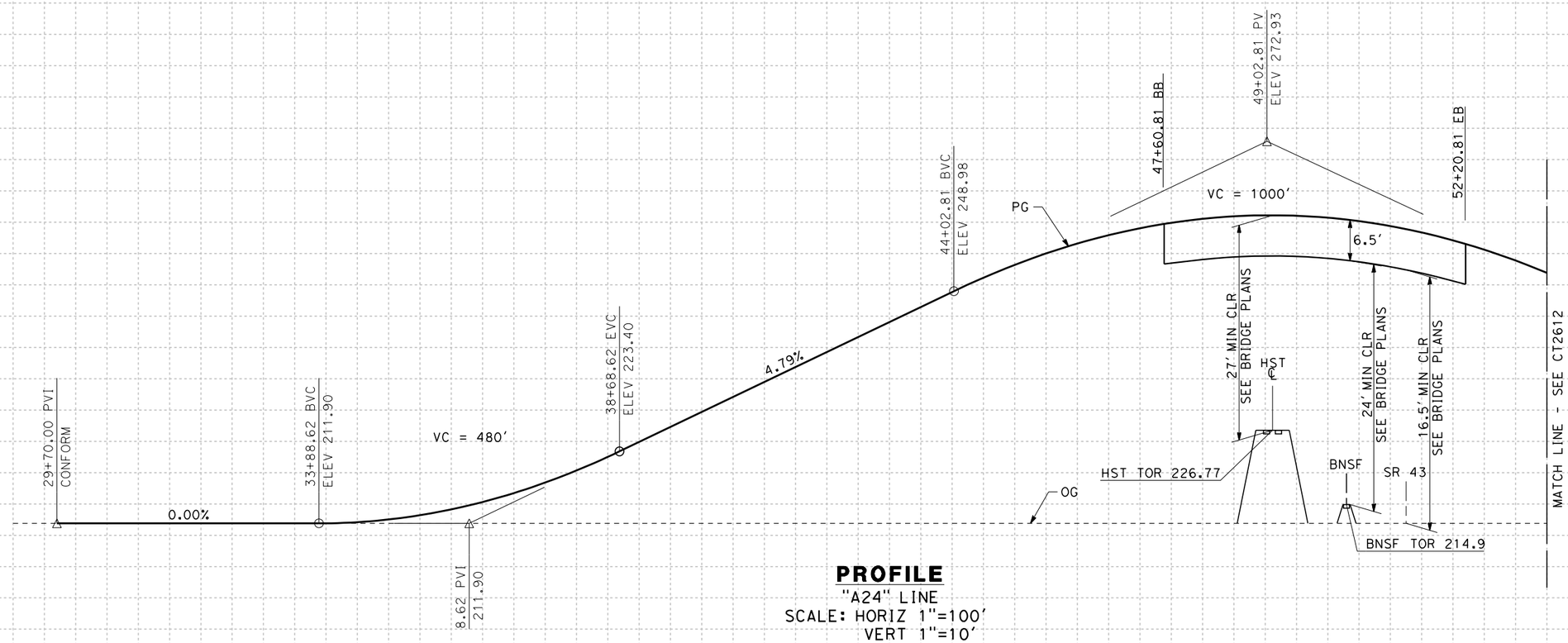
NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 24' FROM TOP OF RAIL.
3. MIN VERTICAL CLEARANCE OVER SR 43 IS 16.5' FROM ROADWAY SURFACE.



PROFILE
"A24" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		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	TOTAL
CY	Exc																										
	Emb																										

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION PROFILE
AVE 24

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2611
SCALE AS SHOWN
SHEET NO. 13 OF 21

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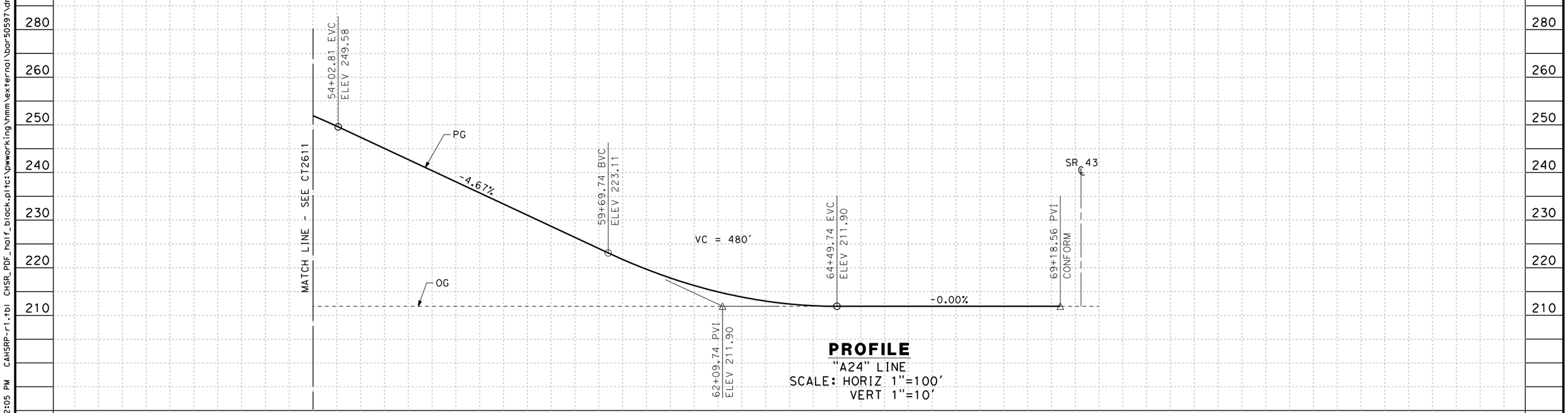

PROFILE
"A24" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION PROFILE
AVE 24

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2612
SCALE AS SHOWN
SHEET NO. 14 OF 21

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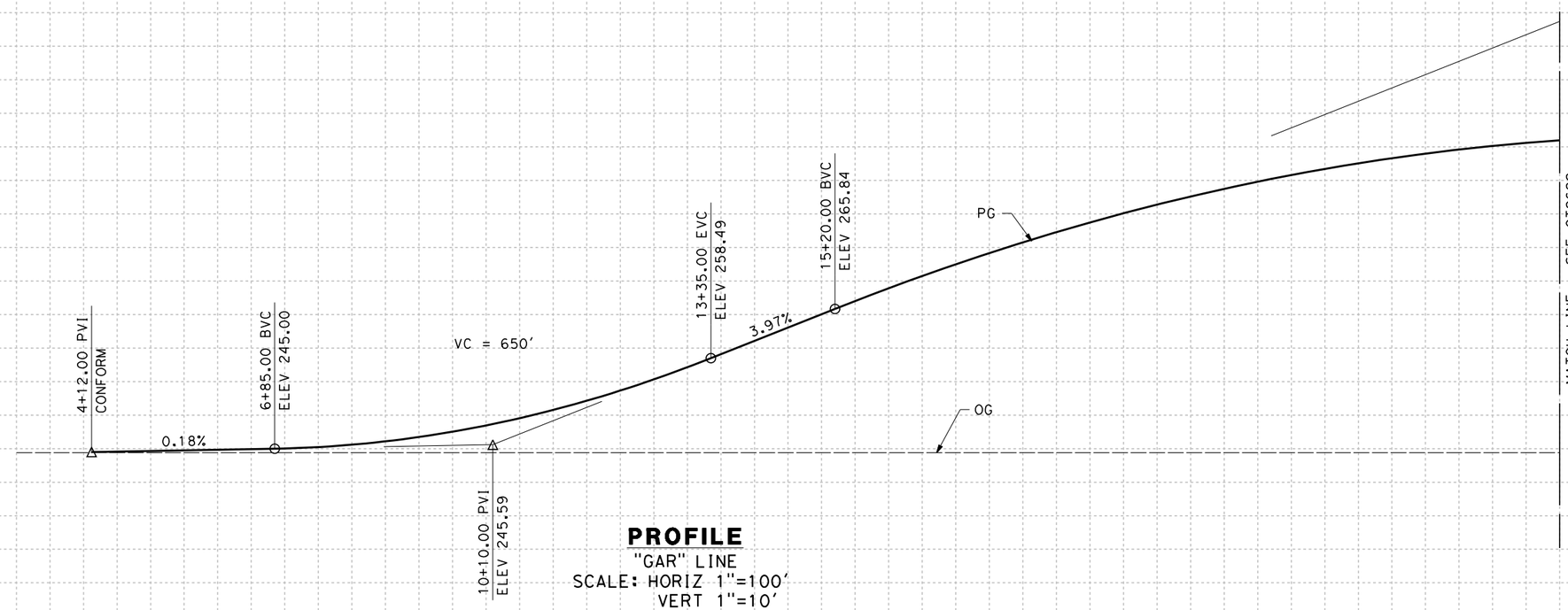
NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 24' FROM TOP OF RAIL.
3. MIN VERTICAL CLEARANCE OVER SR 43 IS 16.5' FROM ROADWAY SURFACE.



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

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION PROFILE
GARCES HWY

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2621
SCALE AS SHOWN
SHEET NO. 15 OF 21

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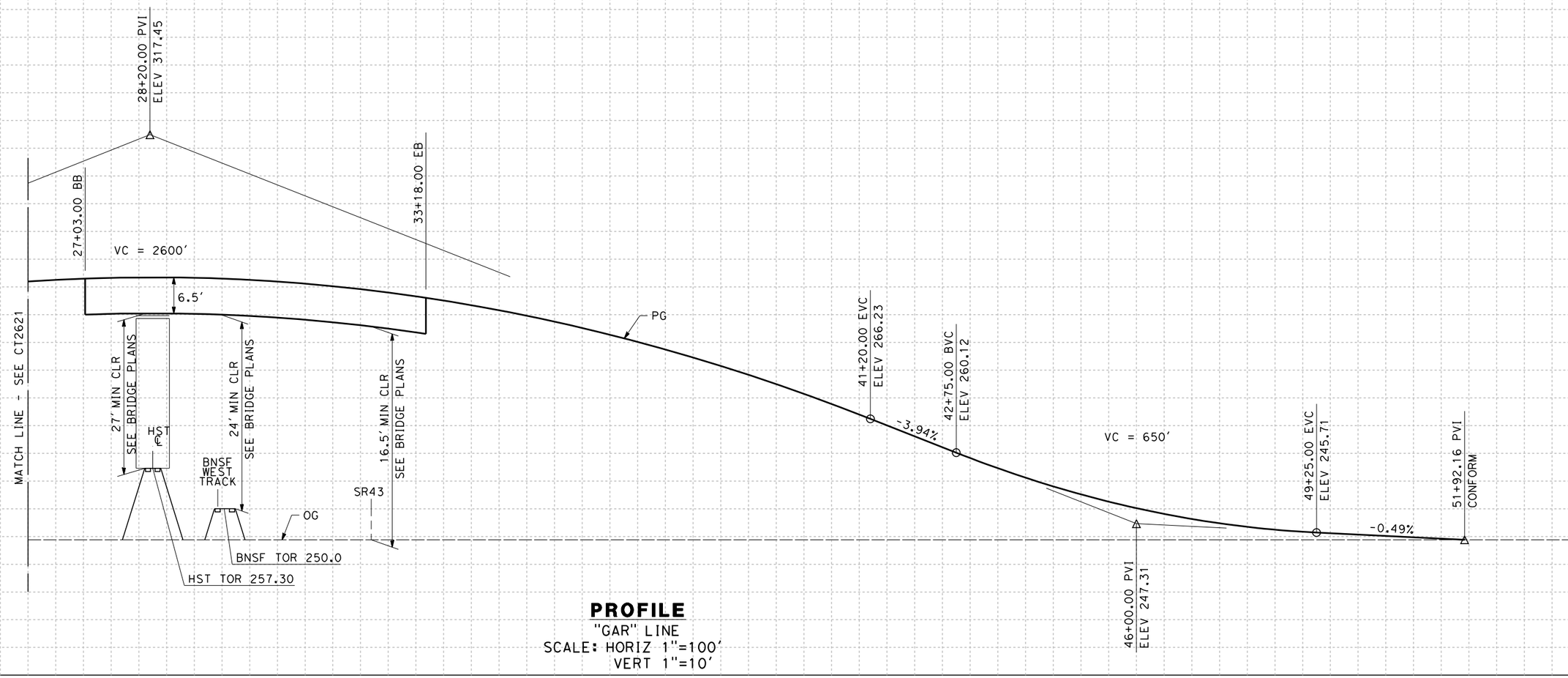

PROFILE
"GAR" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

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	TOTAL
CY Exc																										
CY Emb																										

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION PROFILE
GARCES HWY

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2622
SCALE AS SHOWN
SHEET NO. 16 OF 21

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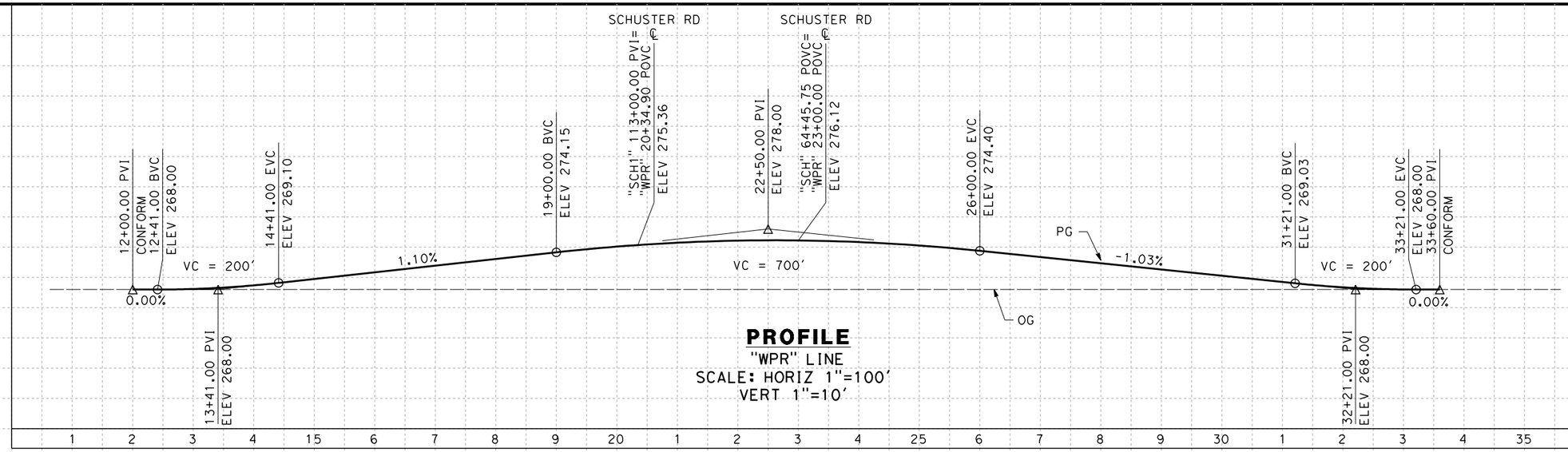
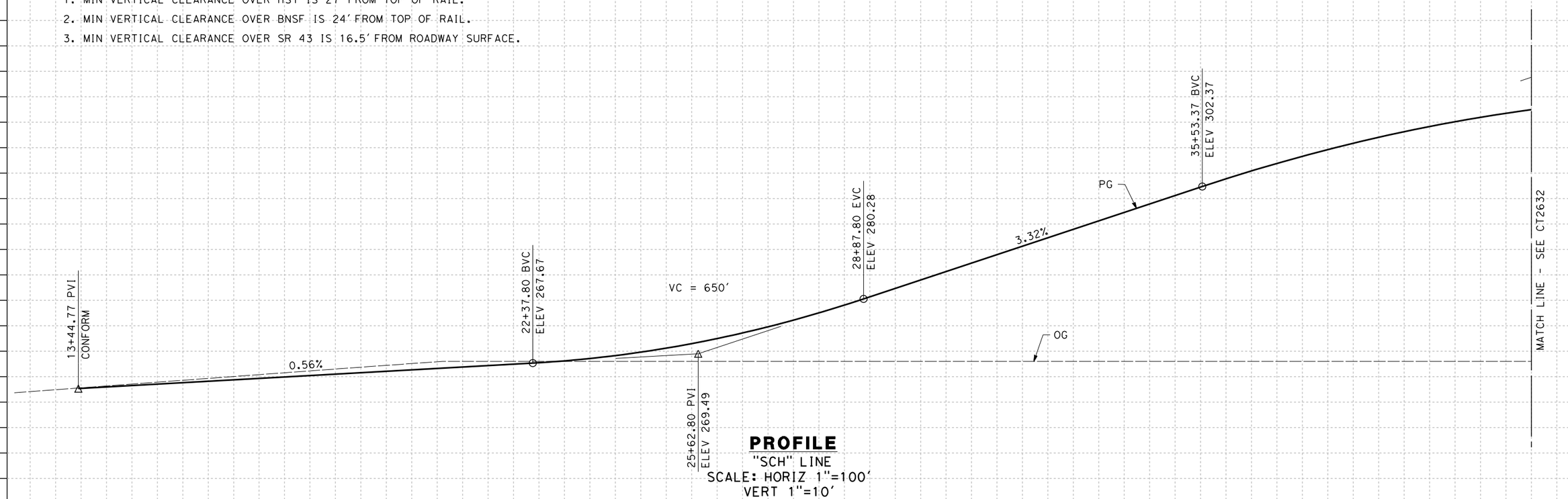


PROFILE
"WPR" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

NOTES:
1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 24' FROM TOP OF RAIL.
3. MIN VERTICAL CLEARANCE OVER SR 43 IS 16.5' FROM ROADWAY SURFACE.



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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. RAMIREZ
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 03/19/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION PROFILE
SCHUSTER RD & WASCO-POND RD

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2631
SCALE AS SHOWN
SHEET NO. 17 OF 21

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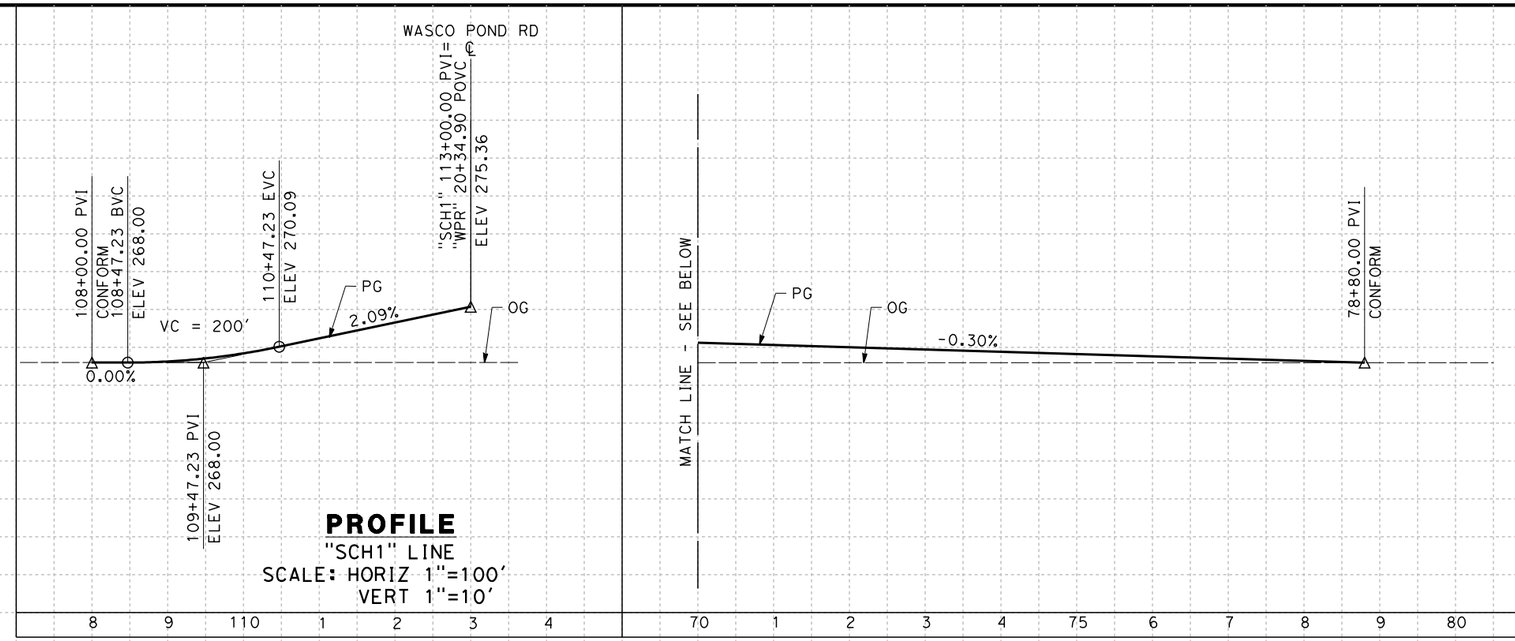
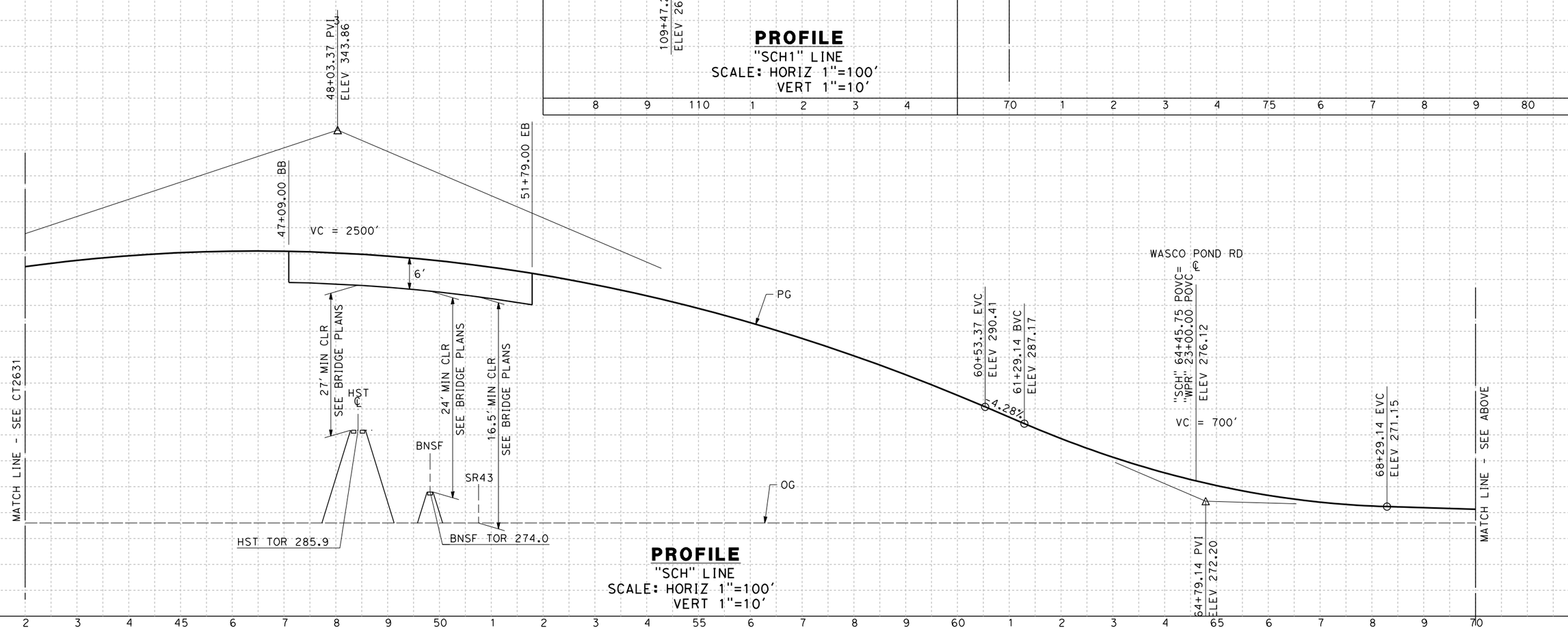


PROFILE
"SCH1" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

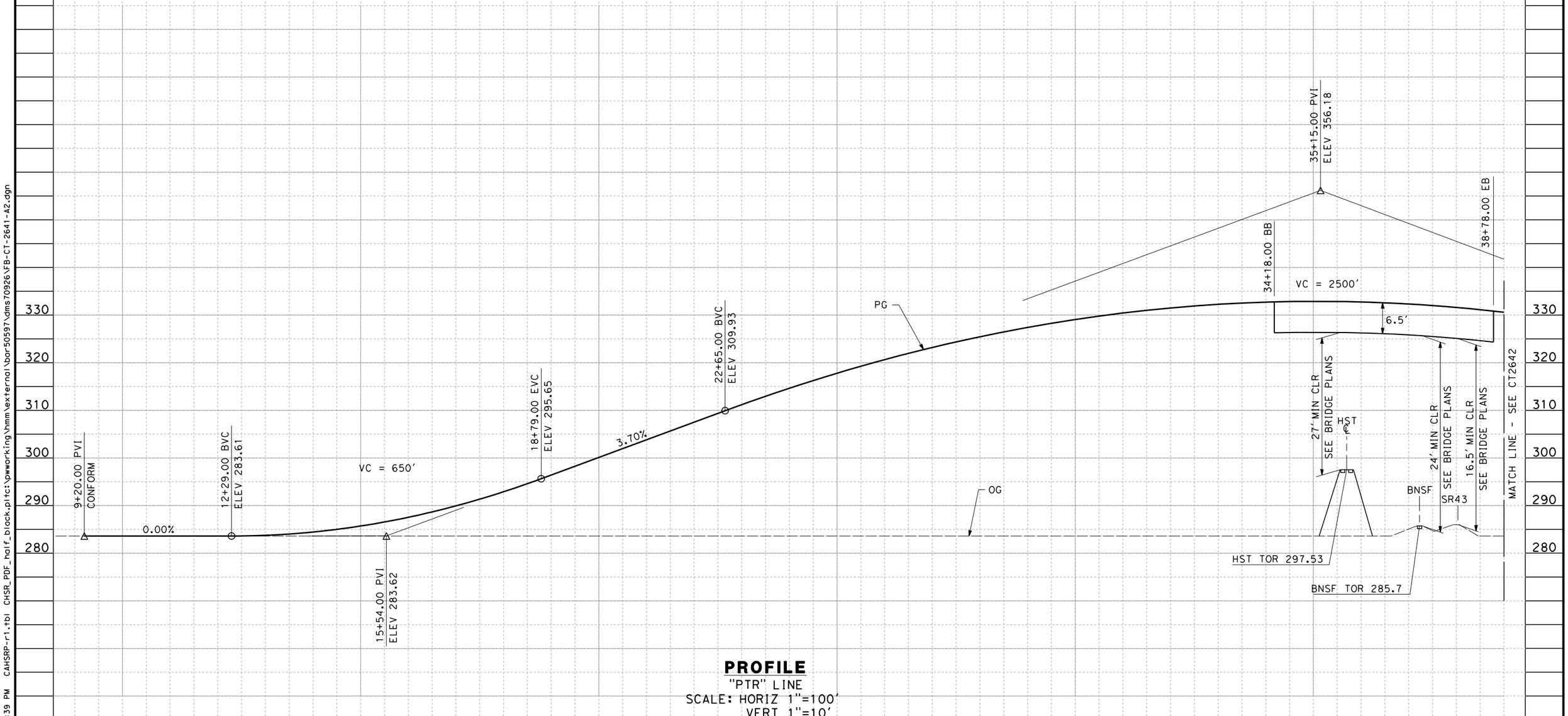


PROFILE
"SCH" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

| STATION | | |

NOTES:

1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
2. MIN VERTICAL CLEARANCE OVER BNSF IS 24' FROM TOP OF RAIL.
3. MIN VERTICAL CLEARANCE OVER SR 43 IS 16.5' FROM ROADWAY SURFACE.



PROFILE

"PTR" LINE

SCALE: HORIZ 1"=100'

VERT 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION PROFILE
PETERSON RD

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2641
SCALE AS SHOWN
SHEET NO. 19 OF 21

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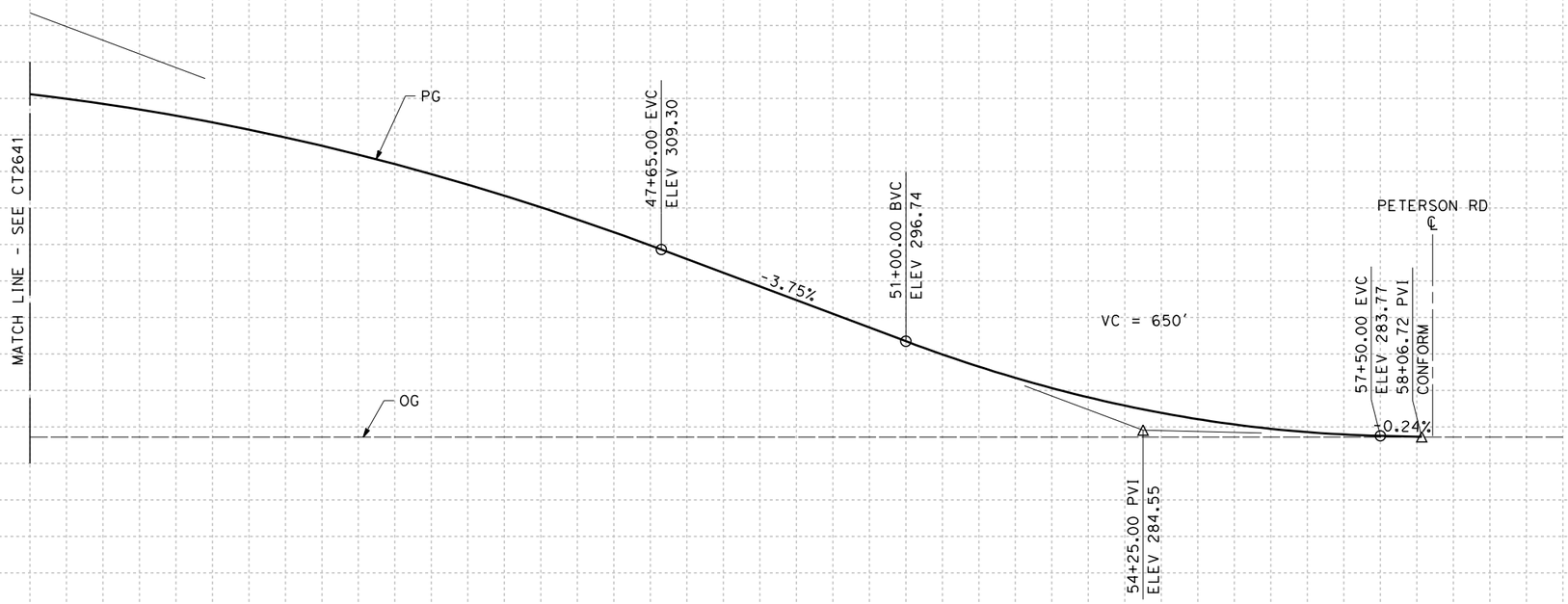

PROFILE

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

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
GRADE SEPARATION PROFILE
PETERSON RD

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2642
SCALE AS SHOWN
SHEET NO. 20 OF 21

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BAR50597

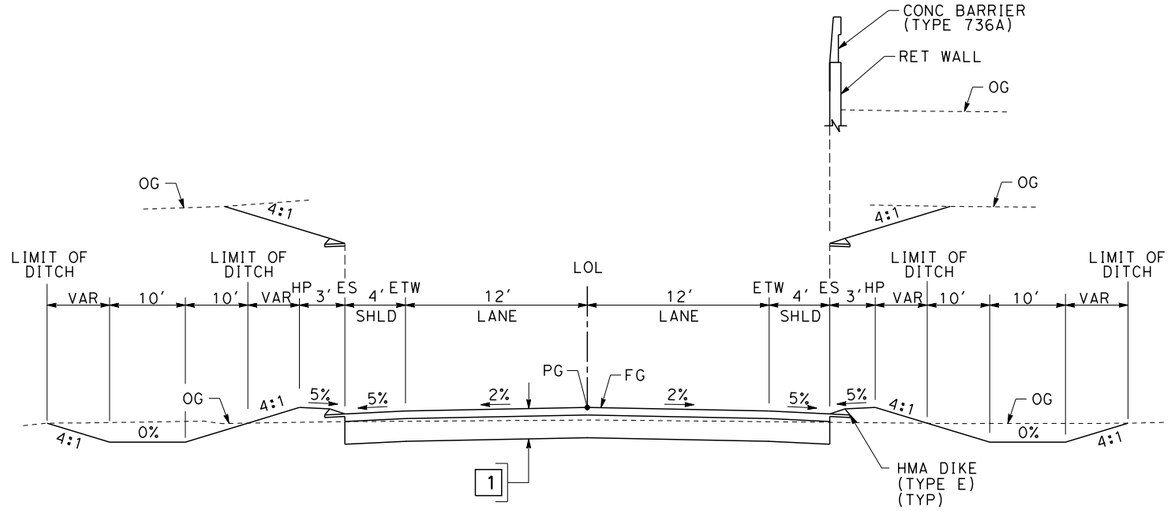
NOTES:

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.

STRUCTURAL SECTIONS

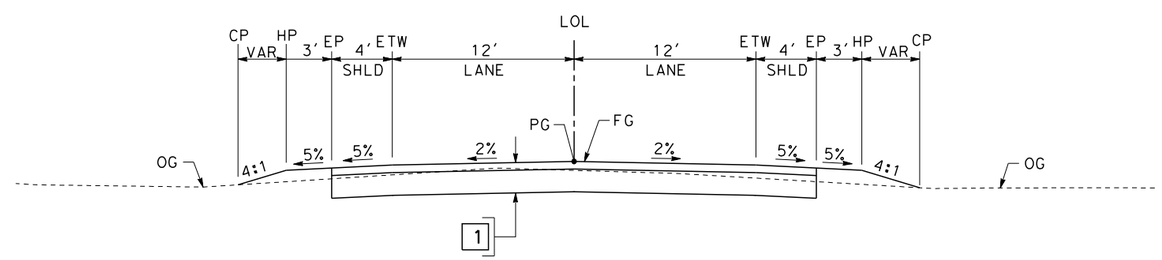
TYPICAL ROADWAY

1 — 0.30' HMA (TYPE A)
1.40' CL 2 AB



SECTION A

"J22" 35+85.00 TO 48+60.00
"J22" 54+13.00 TO 69+80.00
"A24" 36+80.00 TO 47+60.81
"A24" 52+20.81 TO 63+95.00
"GAR" 5+27.00 TO 27+03.00
"GAR" 33+18.00 TO 51+85.00
"SCH" 21+00.00 TO 47+09.00
"SCH" 51+79.00 TO 78+50.00
"PTR" 12+30.00 TO 34+18.00
"PTR" 38+78.00 TO 57+95.00
"SCH1" 109+00.00 TO 113+00.00
"WPR" 13+00.00 TO 32+50.00



SECTION B

"J22" 34+00.00 TO 35+85.00
"J22" 69+80.00 TO 83+43.48
"A24" 29+70.00 TO 36+80.00
"A24" 63+95.00 TO 69+18.56
"GAR" 4+12.00 TO 5+27.00
"GAR" 51+85.00 TO 51+92.16
"SCH" 13+44.77 TO 21+00.00
"SCH" 78+50.00 TO 78+80.00
"PTR" 9+20.00 TO 12+30.00
"PTR" 57+95.00 TO 58+06.72
"SCH1" 108+00.00 TO 109+00.00
"WPR" 12+00.00 TO 13+00.00
"WPR" 33+50.00 TO 33+60.00

TABLE OF DESIGN SPEEDS

STREET NAME	ALIGNMENT DESIGNATION	DESIGN SPEED	CRITERIA / JURISDICTION
COUNTY ROAD J22	J22	50	AASHTO/TULARE COUNTY
AVENUE 24	A24	50(40*)	AASHTO/TULARE COUNTY
GARCES HWY	GAR	65(35*)	KERN COUNTY/KERN COUNTY
SCHUSTER ROAD	SCH	65	KERN COUNTY/KERN COUNTY
PETERSON ROAD	PTR	65(35*)	KERN COUNTY/KERN COUNTY

* WILL REQUIRE REDUCED DESIGN SPEED AT HORIZONTAL CURVE PRIOR TO STOP CONDITION.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY D. BARNHART
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 03/19/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH ALLENSWORTH SUBSECTION
ALIGNMENT A2
ROADWAY/GRADE SEPERATION
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3080
SCALE AS SHOWN
SHEET NO. 21 OF 21

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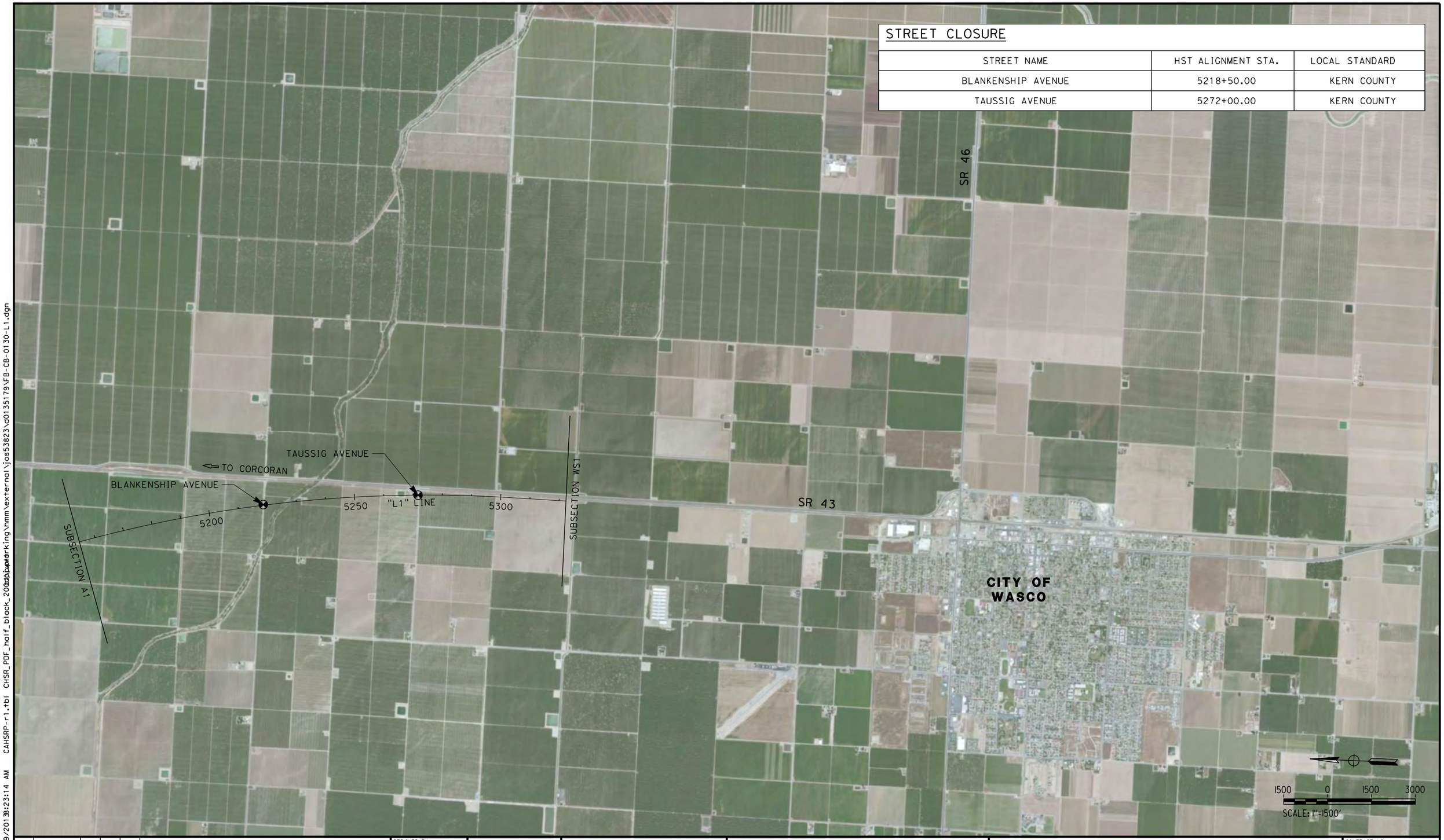
STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.	LOCAL STANDARD
BLANKENSHIP AVENUE	5218+50.00	KERN COUNTY
TAUSSIG AVENUE	5272+00.00	KERN COUNTY



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L1
ROADWAY/GRADE SEPARATION
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0130
SCALE AS SHOWN
SHEET NO. 1 OF 1

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STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.	LOCAL STANDARD
BLANKENSHIP AVENUE	5218+00.00	KERN COUNTY
MCCOMBS AVENUE	5406+00.00	KERN COUNTY
GROMER AVENUE	5433+50.00	KERN COUNTY
6TH STREET	5485+00.00	KERN COUNTY
ROOT AVENUE	5499+00.00	KERN COUNTY
FILBURN AVENUE	5551+00.00	KERN COUNTY
JACKSON AVENUE	5581+00.00	KERN COUNTY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L2
ROADWAY/GRADE SEPARATION
KEYMAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0140
SCALE AS SHOWN
SHEET NO. 1 OF 7

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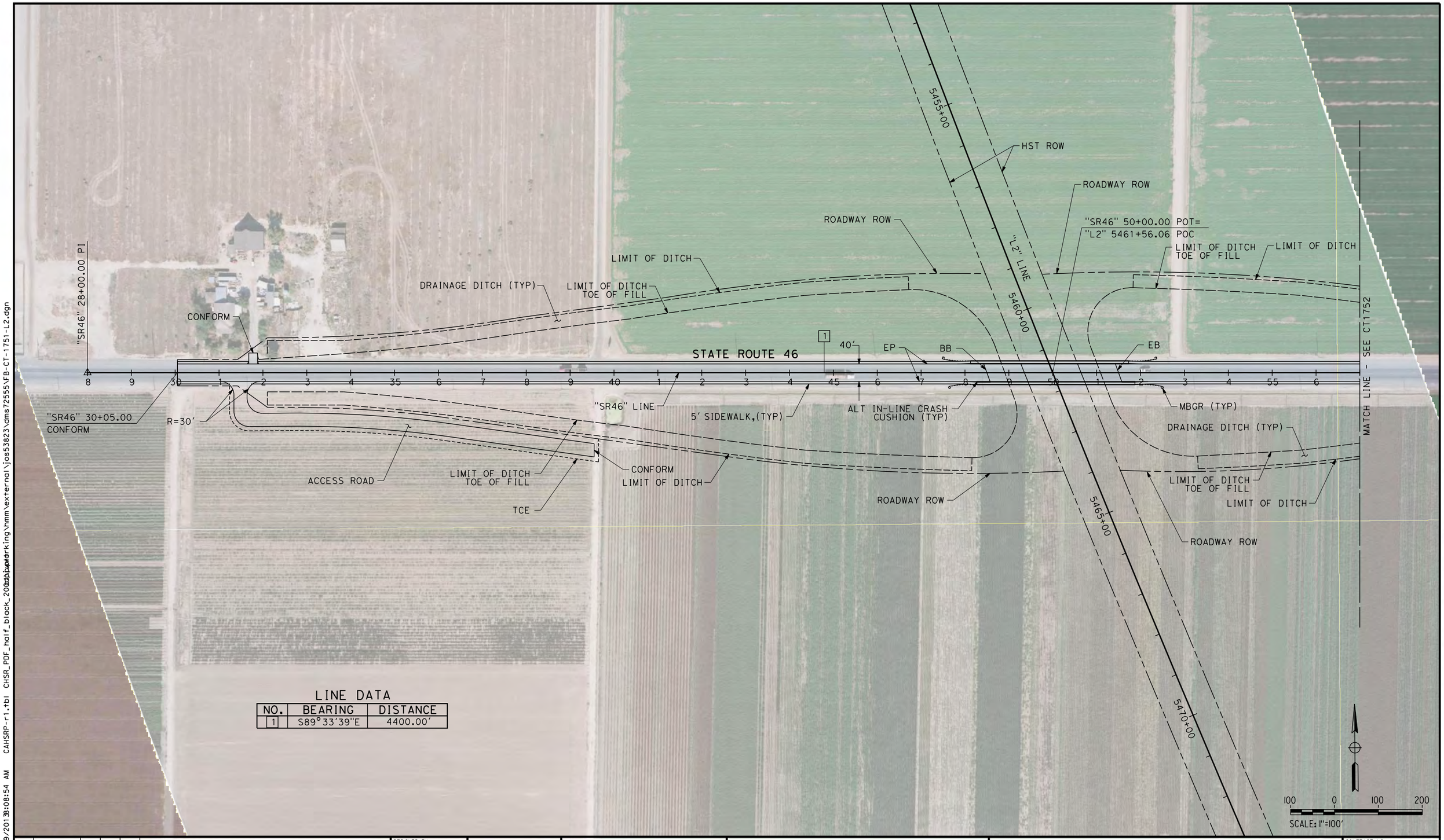

LINE DATA

NO.	BEARING	DISTANCE
1	S89°33'39"E	4400.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L2
GRADE SEPARATION LAYOUT
STATE ROUTE 46

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1751
SCALE AS SHOWN
SHEET NO. 2 OF 7

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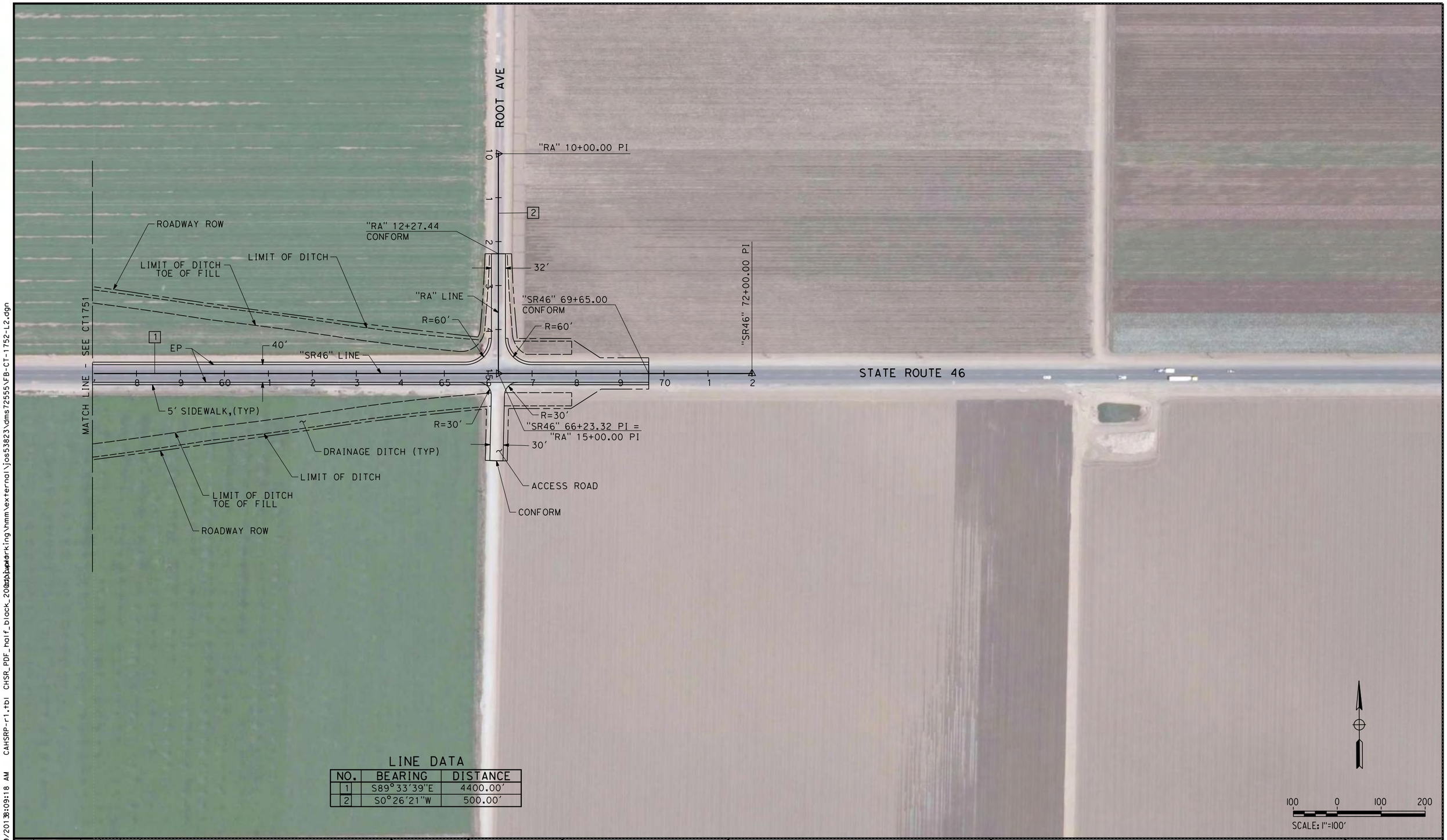

LINE DATA

NO.	BEARING	DISTANCE
1	S89°33'39"E	4400.00'
2	S0°26'21"W	500.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L2
GRADE SEPARATION LAYOUT
STATE ROUTE 46

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1752
SCALE AS SHOWN
SHEET NO. 3 OF 7

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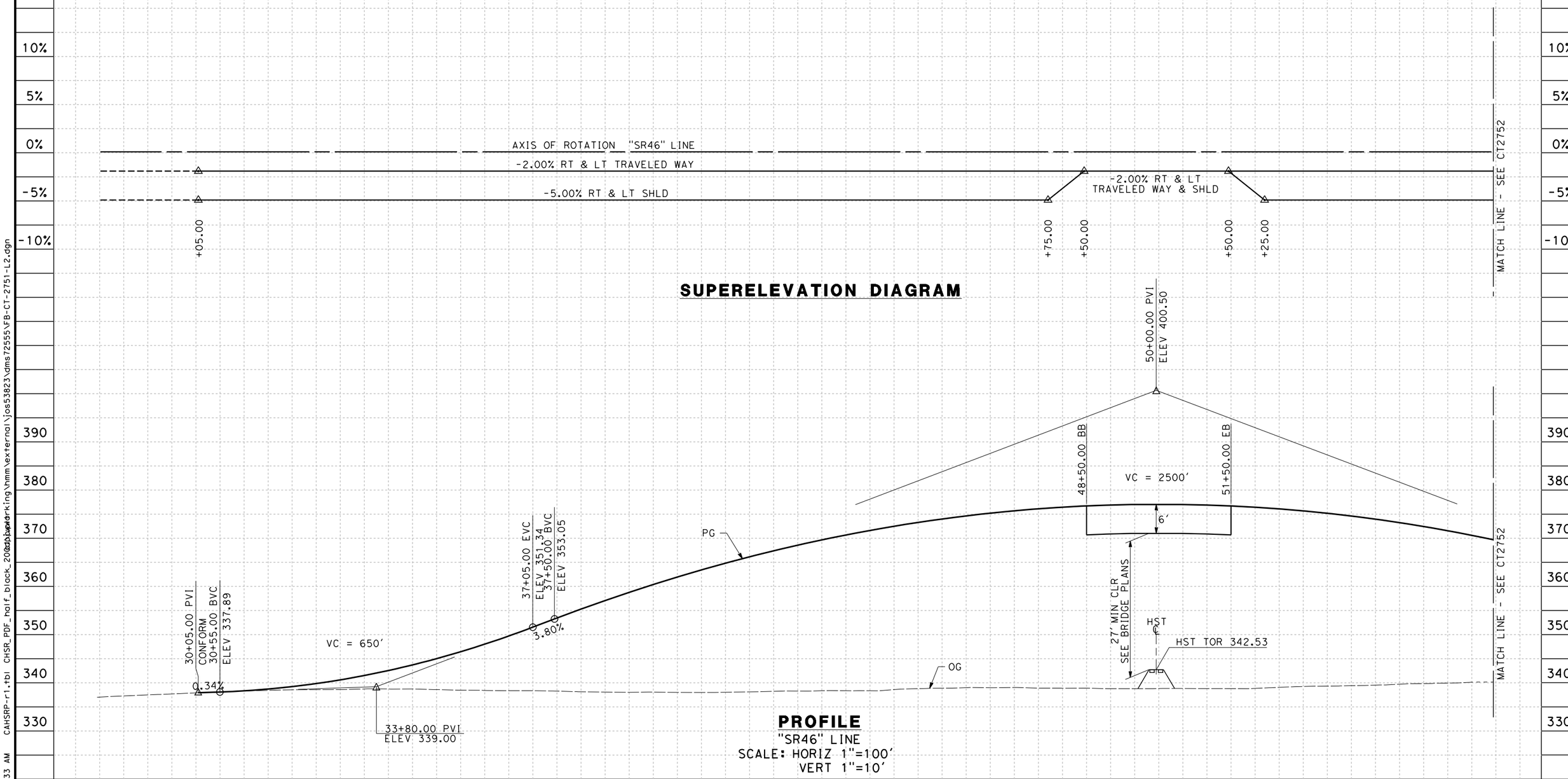
NOTES:
1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 46

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2751
SCALE AS SHOWN
SHEET NO. 4 OF 7

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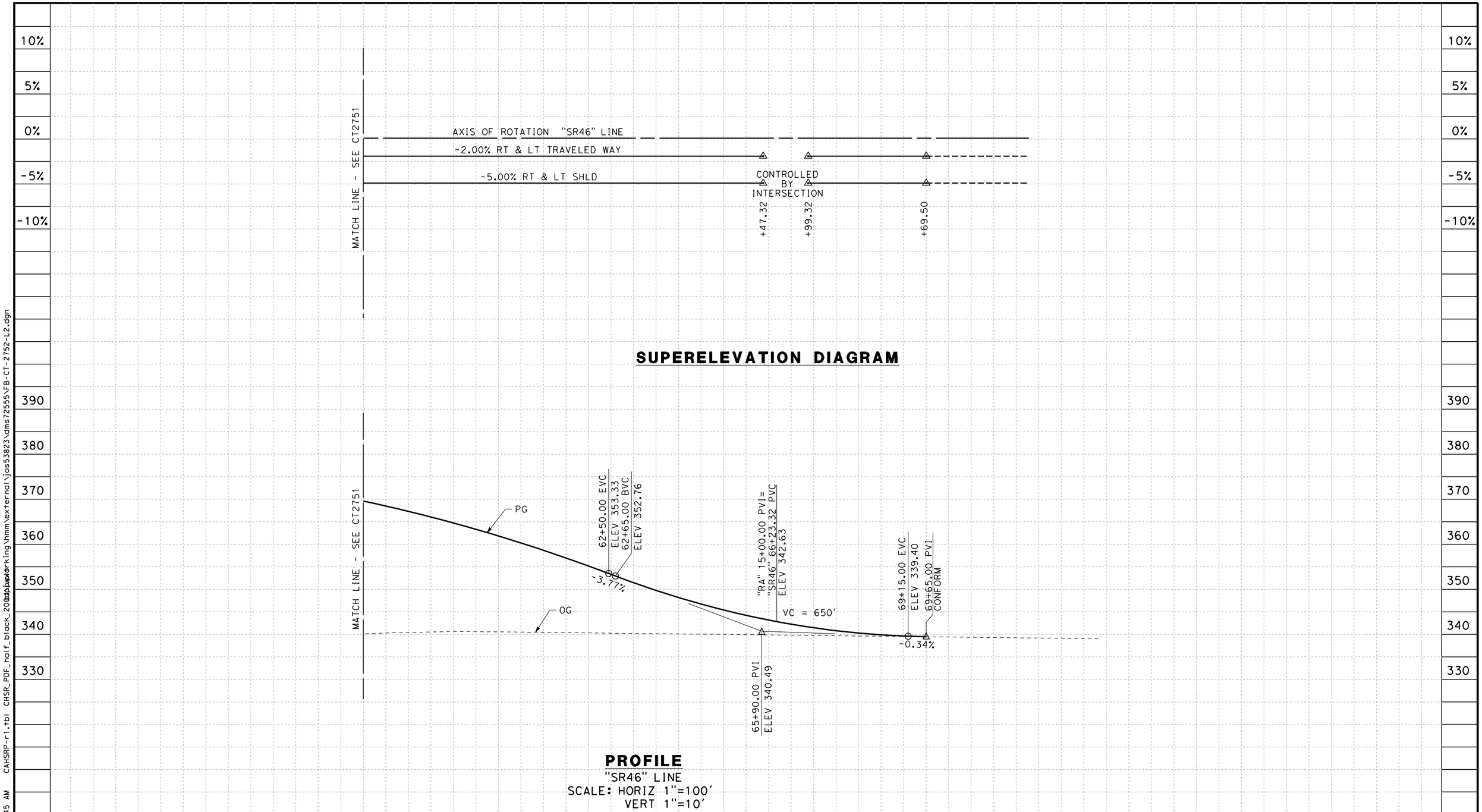

SUPERELEVATION DIAGRAM

PROFILE

"SR46" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 46

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2752
SCALE AS SHOWN
SHEET NO. 5 OF 7

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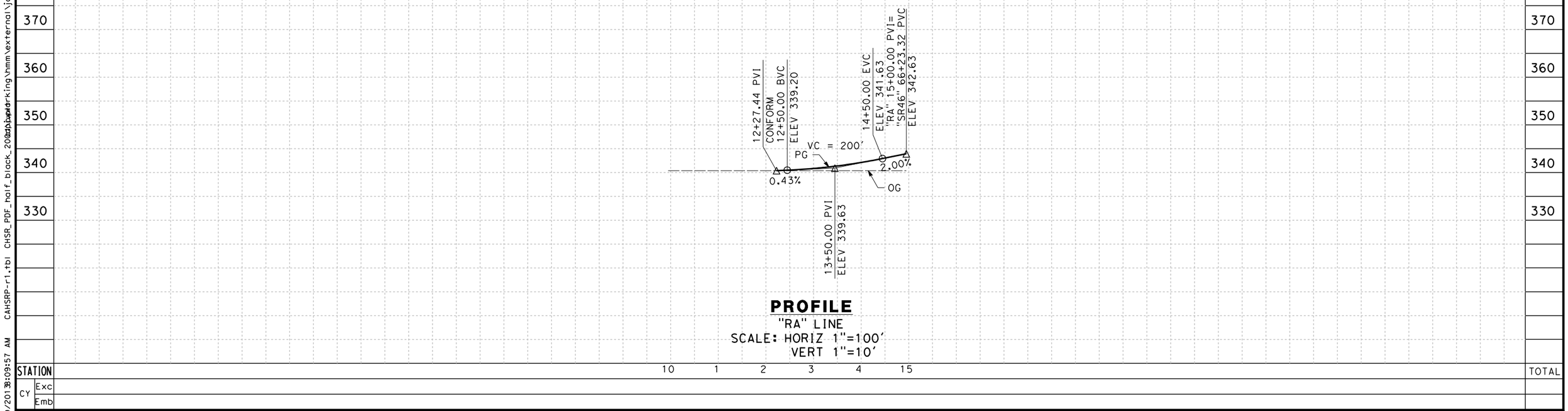
NOTES:
1. SEE SHEET CT1752 FOR LAYOUT VIEW



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

STATION	10	1	2	3	4	15	TOTAL
CY Exc							
CY Emb							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L2
GRADE SEPARATION PROFILE
ROOT AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2753
SCALE AS SHOWN
SHEET NO. 6 OF 7

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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 DIMENSIONS AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

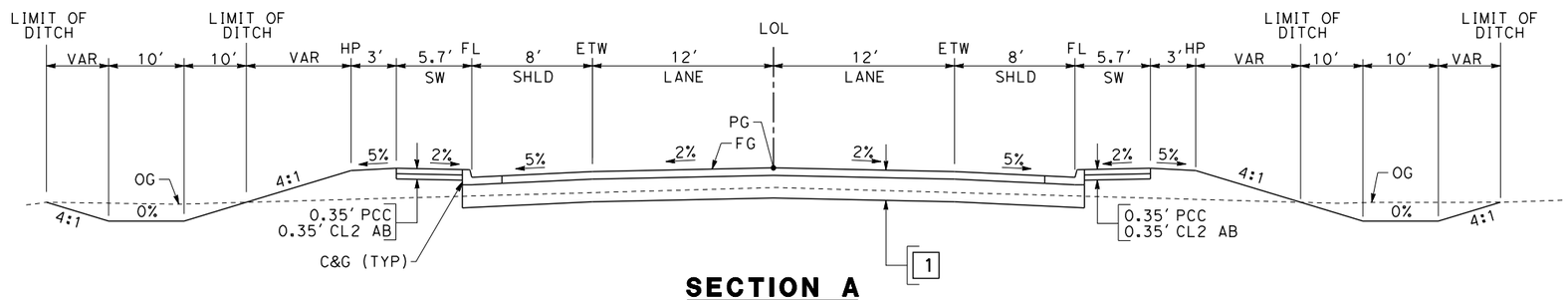
STRUCTURAL SECTIONS

SR 46

1 — 0.45' HMA (TYPE A)
1.95' CL 2 AB

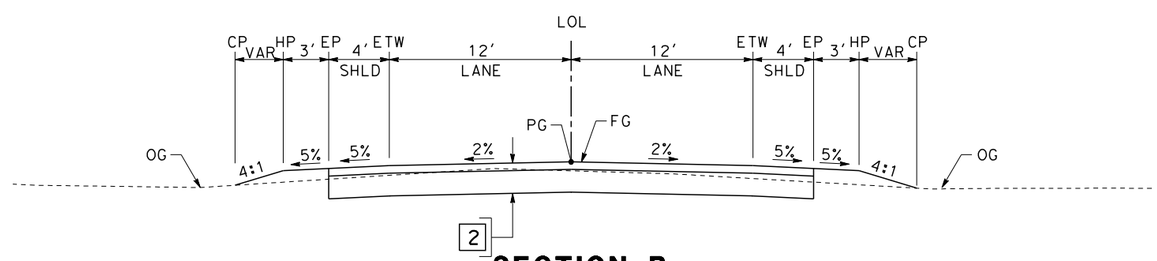
TYPICAL ROADWAY

2 — 0.30' HMA (TYPE A)
1.40' CL 2 AB



SECTION A

"SR46" 30+05.00 TO 48+50.00
"SR46" 51+50.00 TO 69+65.00



SECTION B

"RA" 12+27.44 TO 15+00.00

TABLE OF DESIGN SPEEDS

STREET NAME	ALIGNMENT DESIGNATION	DESIGN SPEED	CRITERIA/JURISDICTION
STATE ROUTE 46	SR46	65	HDM/CALTRANS
ROOT AVE	RA	65	KERN COUNTY/KERN COUNTY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L2
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3100
SCALE AS SHOWN
SHEET NO. 7 OF 7

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STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.	LOCAL STANDARD
BLANKENSHIP AVENUE	5219+00.00	KERN COUNTY
TAUSSIG AVENUE	5272+00.00	KERN COUNTY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L3
ROADWAY/GRADE SEPARATION
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0150
SCALE AS SHOWN
SHEET NO. 1 OF 1

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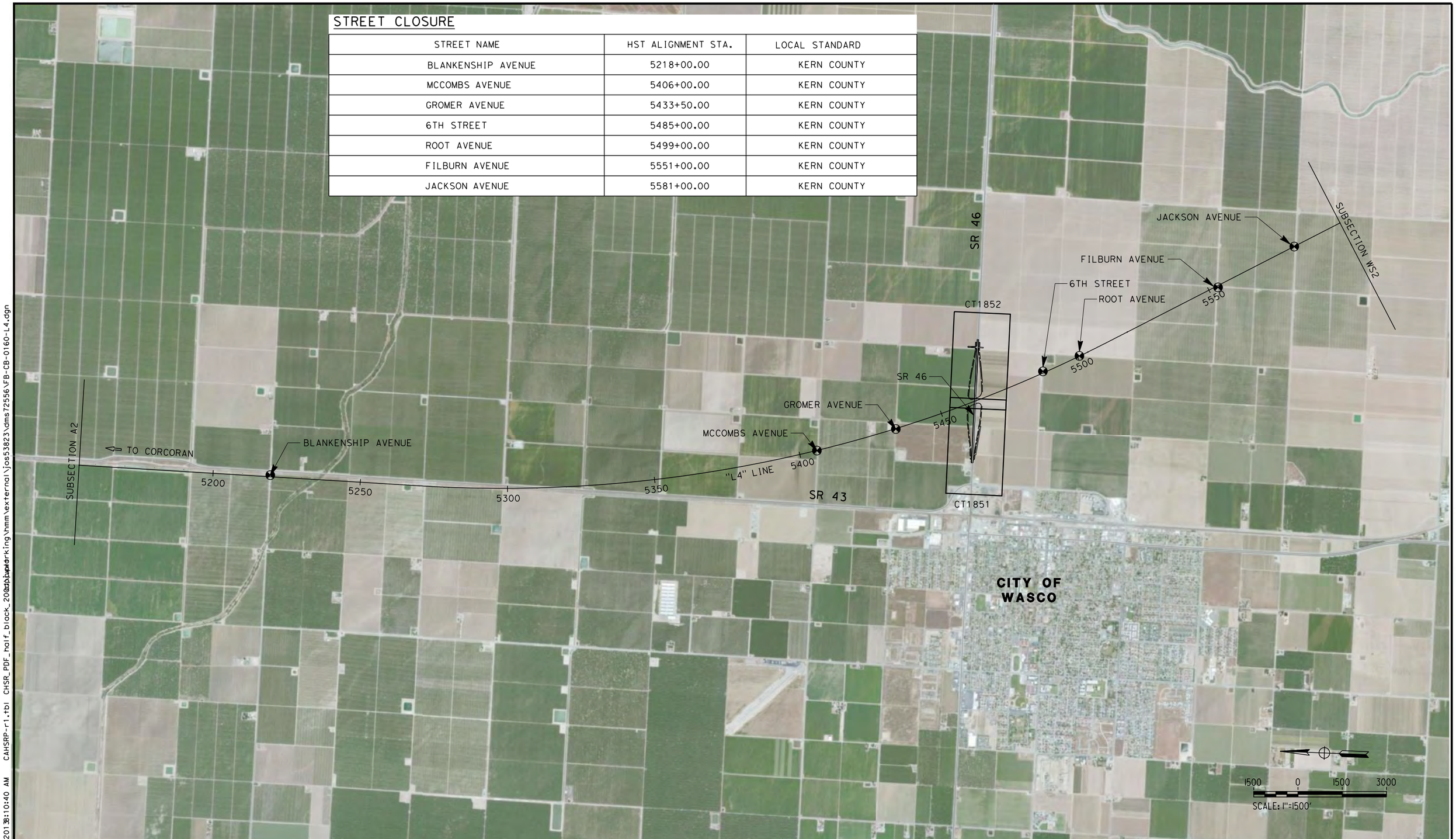
STREET CLOSURE

STREET NAME	HST ALIGNMENT STA.	LOCAL STANDARD
BLANKENSHIP AVENUE	5218+00.00	KERN COUNTY
MCCOMBS AVENUE	5406+00.00	KERN COUNTY
GROMER AVENUE	5433+50.00	KERN COUNTY
6TH STREET	5485+00.00	KERN COUNTY
ROOT AVENUE	5499+00.00	KERN COUNTY
FILBURN AVENUE	5551+00.00	KERN COUNTY
JACKSON AVENUE	5581+00.00	KERN COUNTY



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L4
ROADWAY/GRADE SEPARATION
KEYMAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0160
SCALE AS SHOWN
SHEET NO. 1 OF 7

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LINE DATA

NO.	BEARING	DISTANCE
1	S89°33'39"E	4500.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L4
GRADE SEPARATION LAYOUT
STATE ROUTE 46

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1851
SCALE AS SHOWN
SHEET NO. 2 OF 7

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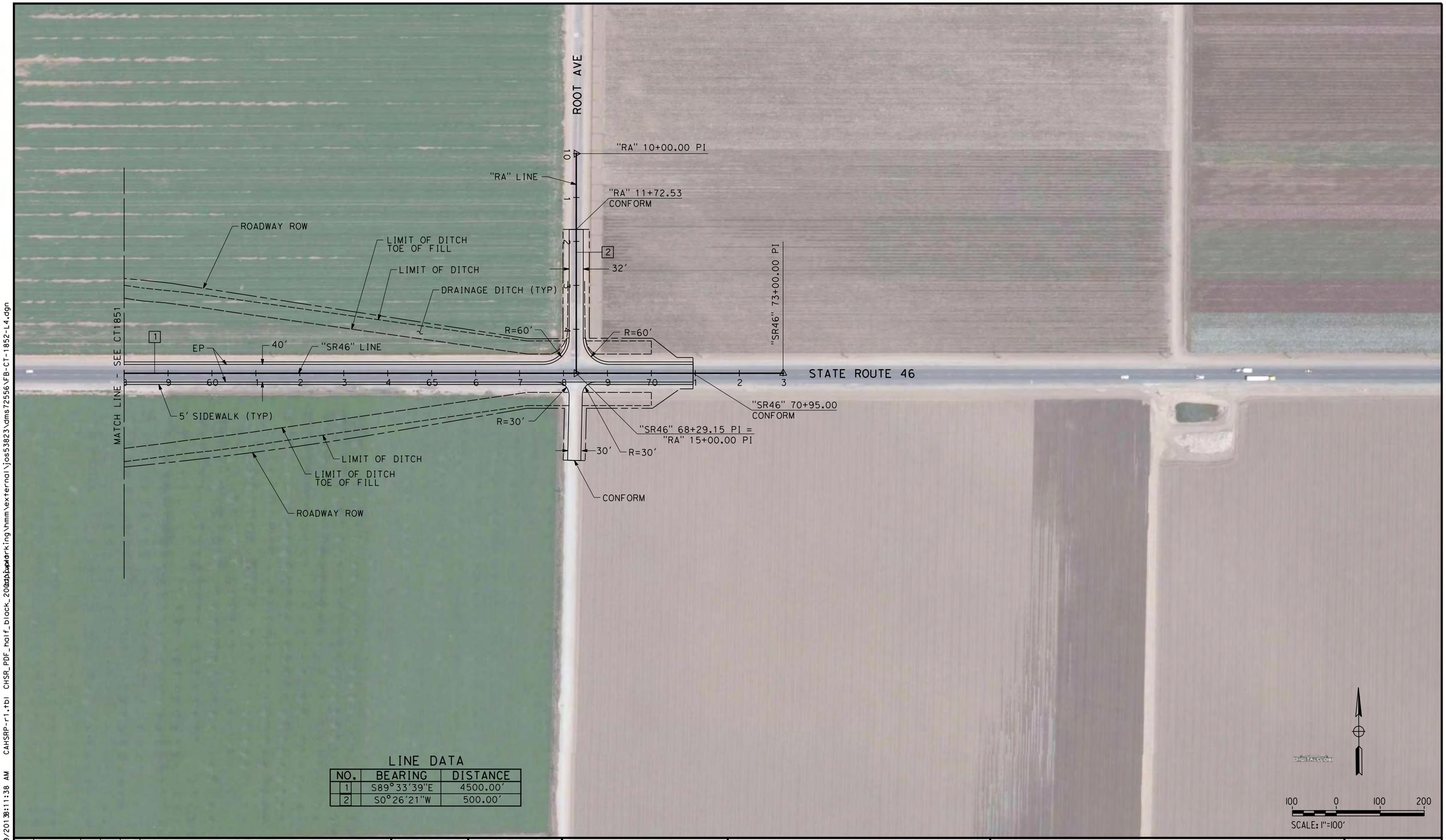

LINE DATA

NO.	BEARING	DISTANCE
1	S89°33'39"E	4500.00'
2	S0°26'21"W	500.00'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L4
GRADE SEPARATION LAYOUT
STATE ROUTE 46

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1852
SCALE AS SHOWN
SHEET NO. 3 OF 7

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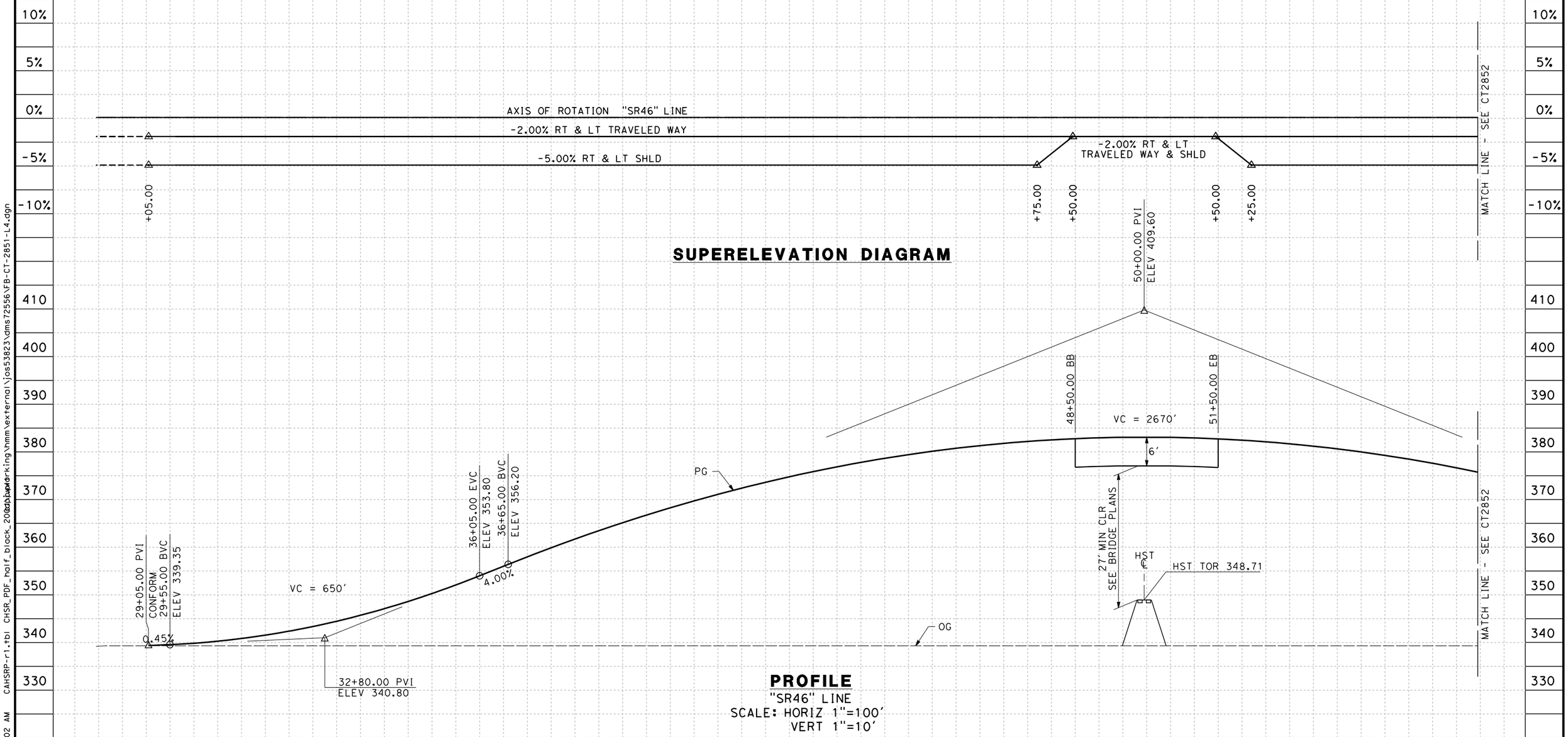
NOTES:
1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.



SUPERELEVATION DIAGRAM

PROFILE

"SR46" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L4
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 46

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2851
SCALE AS SHOWN
SHEET NO. 4 OF 7

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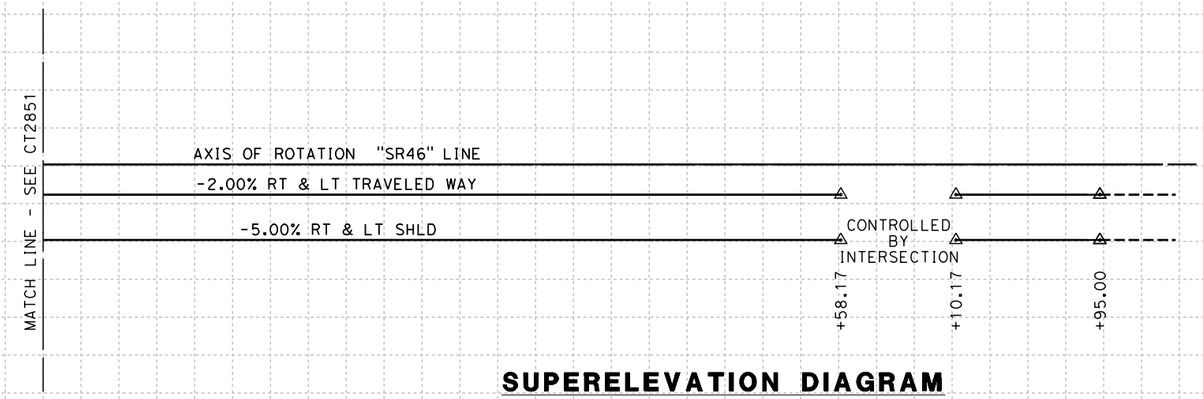
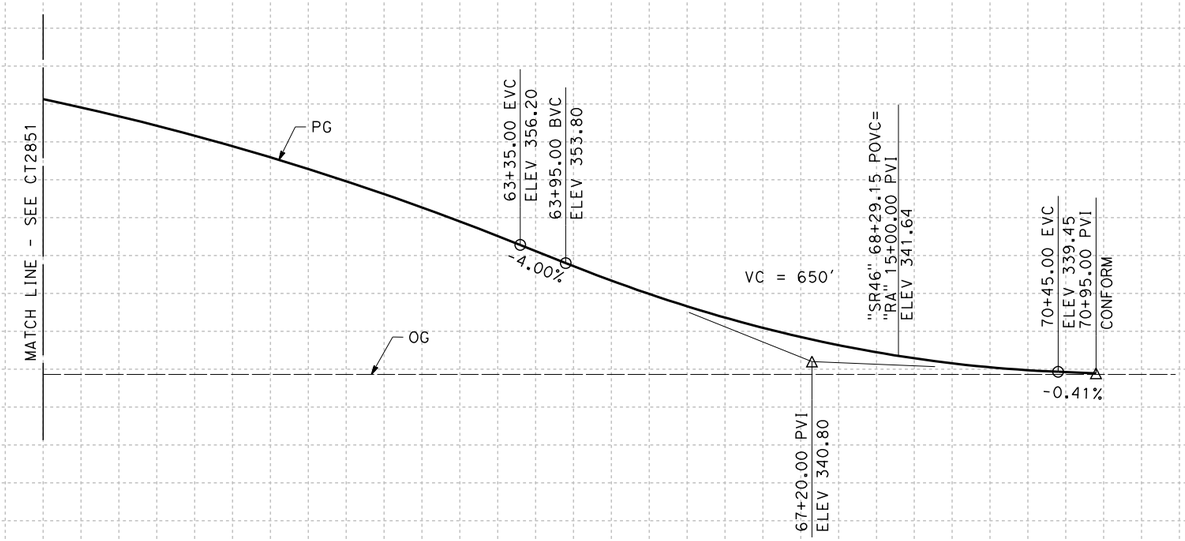


SUPERELEVATION DIAGRAM



PROFILE

"SR46" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

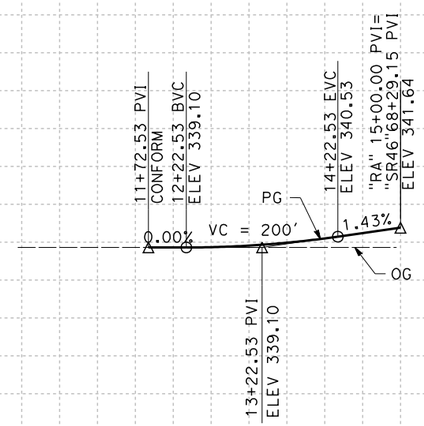
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L4
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 46

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2852
SCALE AS SHOWN
SHEET NO. 5 OF 7

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

NOTES:
1. SEE SHEET CT1852 FOR LAYOUT VIEW



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

STATION	10	1	2	3	4	15	TOTAL
CY Exc							
CY Emb							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
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CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L4
GRADE SEPARATION PROFILE
ROOT AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2853
SCALE AS SHOWN
SHEET NO. 6 OF 7

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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 DIMENSIONS AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

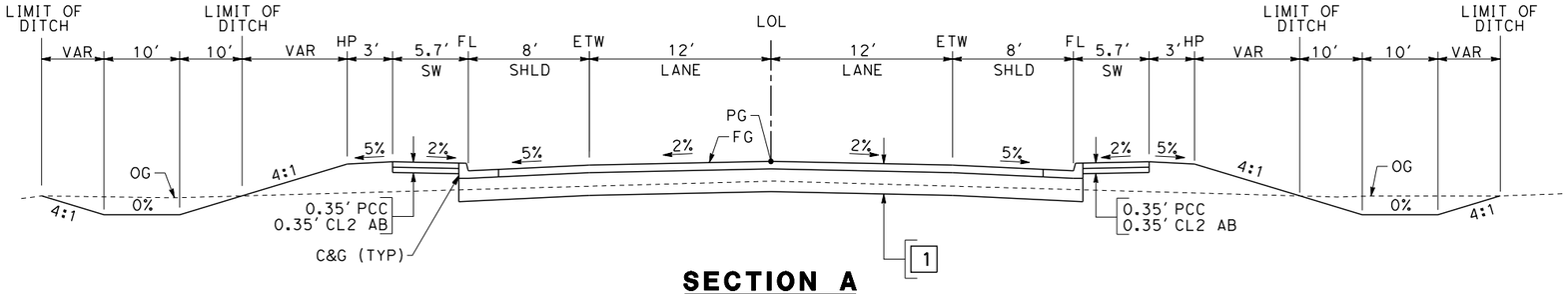
STRUCTURAL SECTIONS

SR 46

1 — 0.45' HMA (TYPE A)
1.95' CL 2 AB

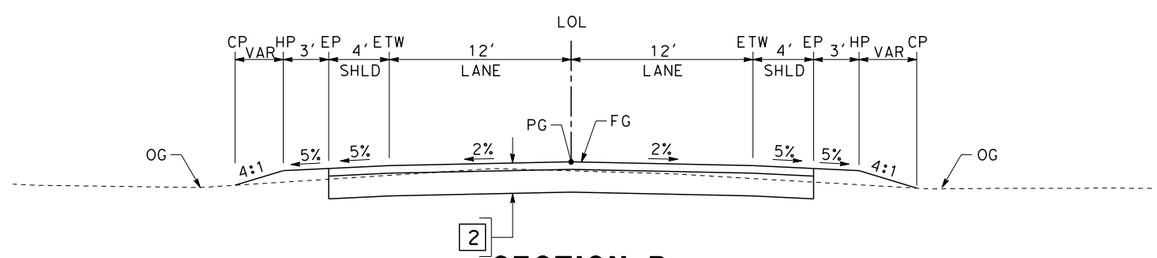
TYPICAL ROADWAY

2 — 0.30' HMA (TYPE A)
1.40' CL 2 AB



SECTION A

"SR46" 29+05.00 TO 48+50.00
"SR46" 51+50.00 TO 70+95.00



SECTION B

"RA" 11+72.53 TO 15+00.00

TABLE OF DESIGN SPEEDS

STREET NAME	ALIGNMENT DESIGNATION	DESIGN SPEED	CRITERIA/JURISDICTION
STATE ROUTE 46	SR46	65	HDM/CALTRANS
ROOT AVE	RA	65	KERN COUNTY/KERN COUNTY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

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URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L4
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3120
SCALE AS SHOWN
SHEET NO. 7 OF 7

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