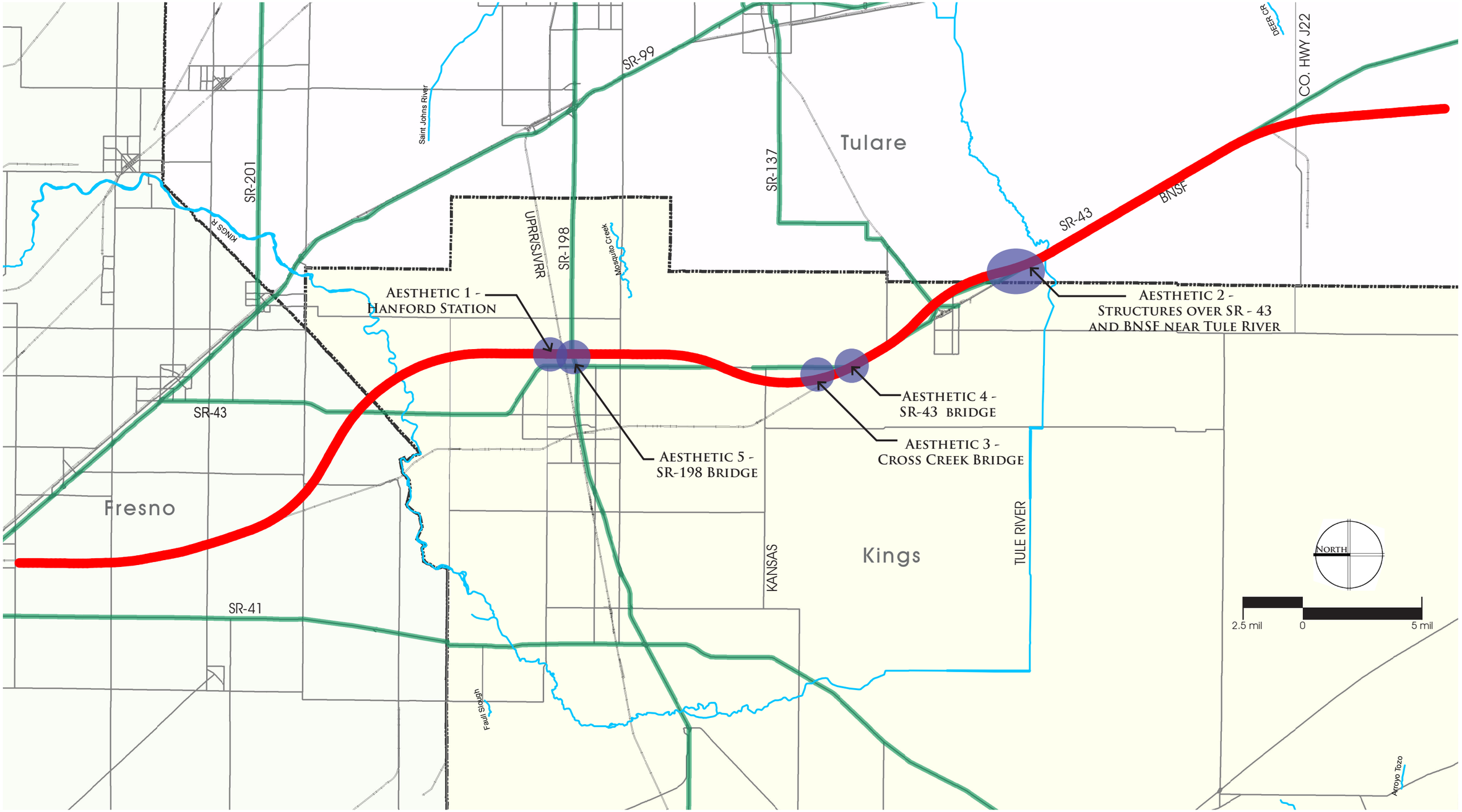
Dragados | Flatiron | Shimmick

Proposal for
Design-Build Services for CONSTRUCTION PACKAGE 2-3

RFP NO.: HSR 13-57

Appendix

CALIFORNIA
High-Speed Rail Authority

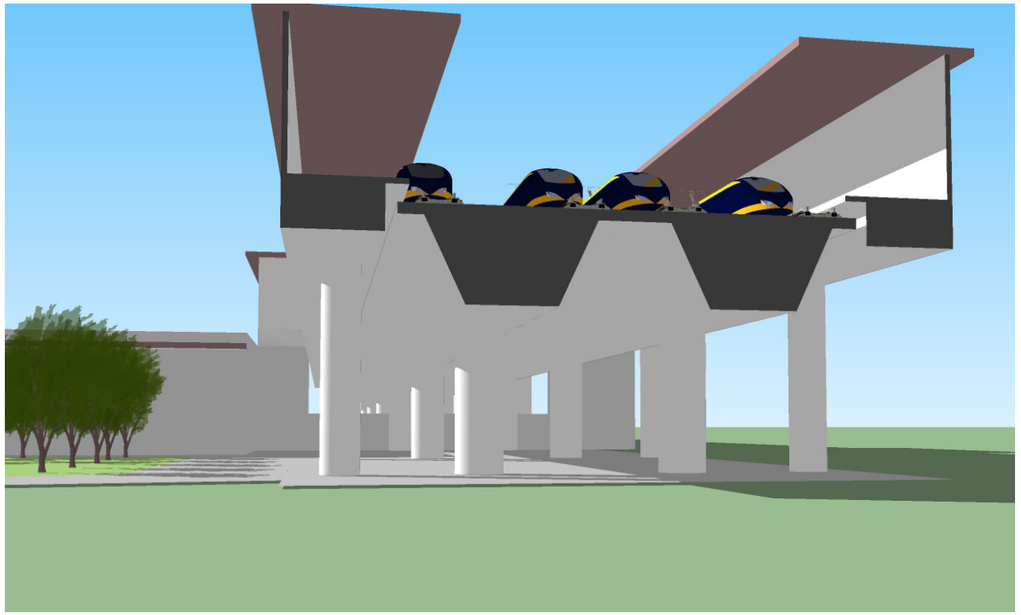


Location of Aesthetics Enhancement

Station Plan

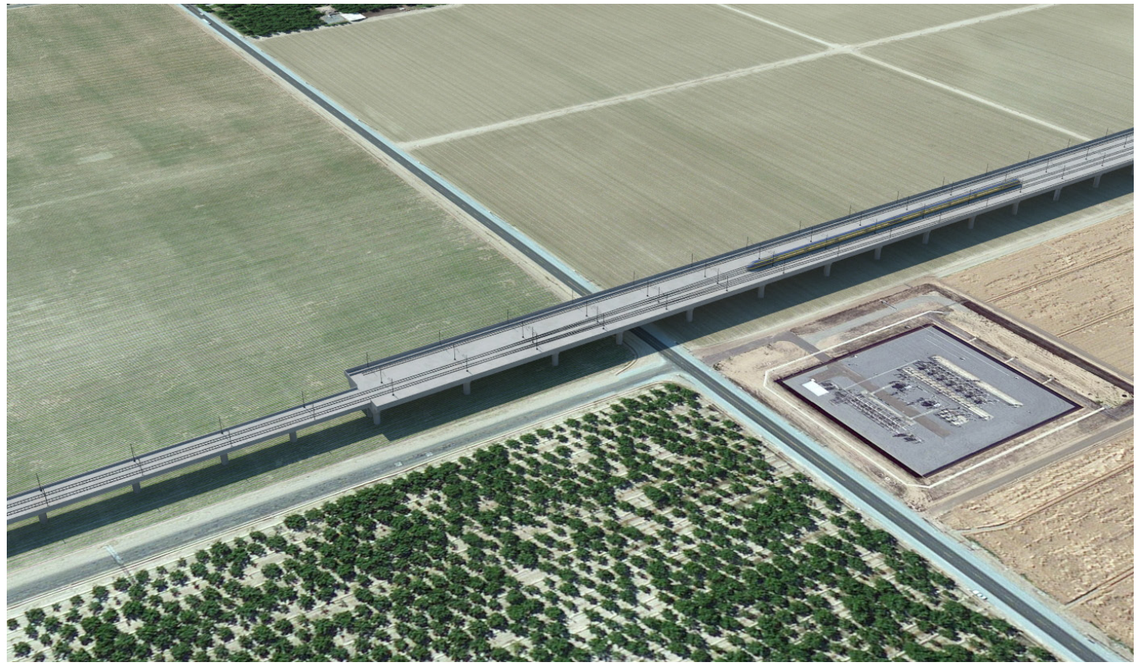
Station Front Perspective

Platform Perspective



Underneath Platform Perspective

Aesthetics 1 - Hanford Station RFP Proposed



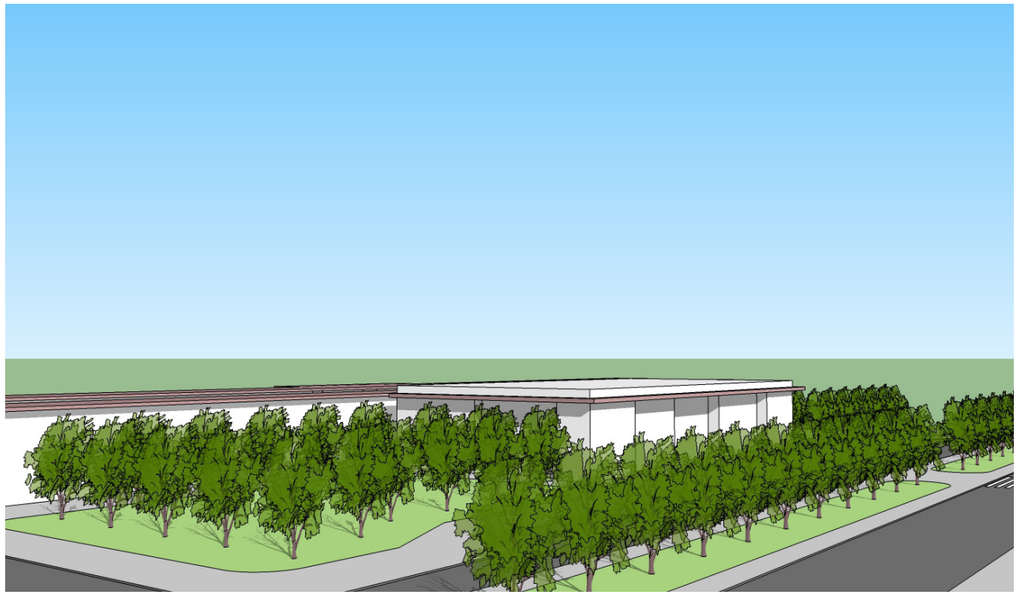
Grangeville Blvd.
under HSR

San Joaquin Valley Railroad
under HSR

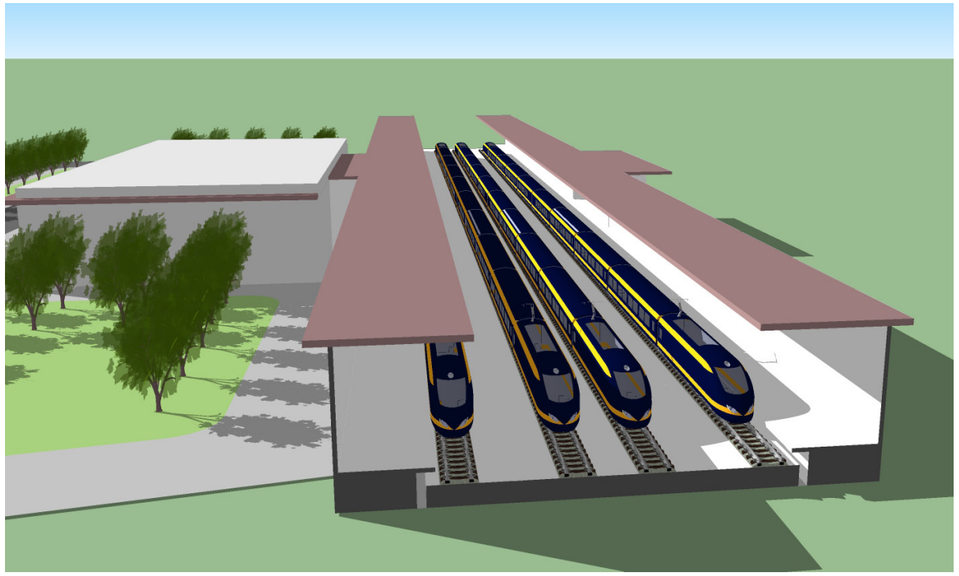
SR-198 under HSR

Aesthetics 1 - Hanford Station RFP Proposed

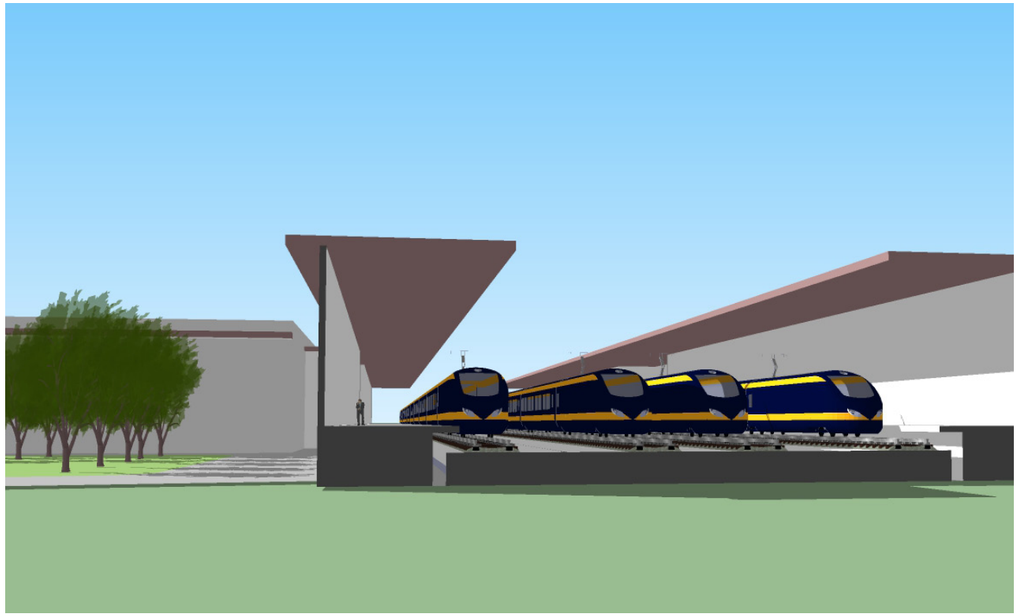
Station Plan



Station Front Perspective

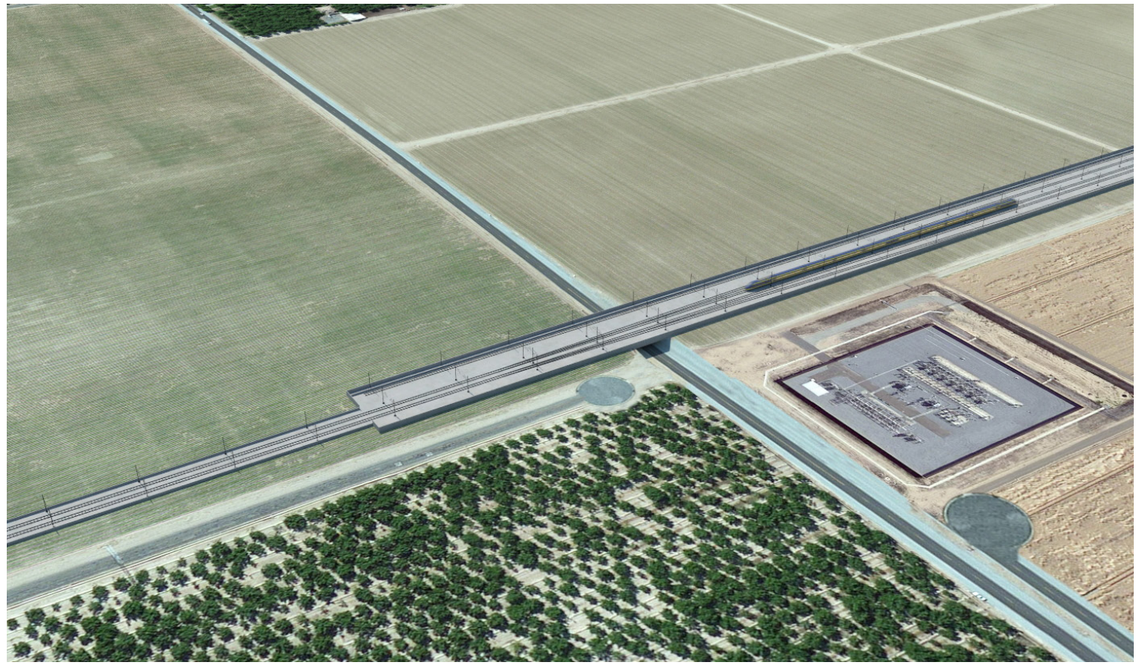


Above Platform Perspective



Platform Perspective

Aesthetics 1 - Hanford Station at Grade DFS Proposed



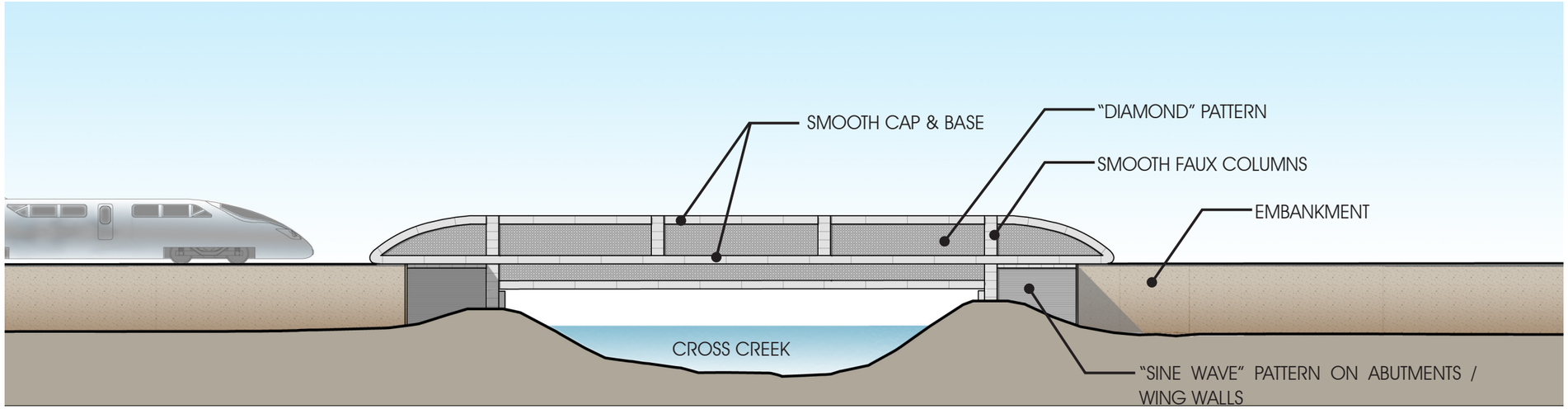
Grangeville Blvd.
under HSR

San Joaquin Valley Railroad
under HSR

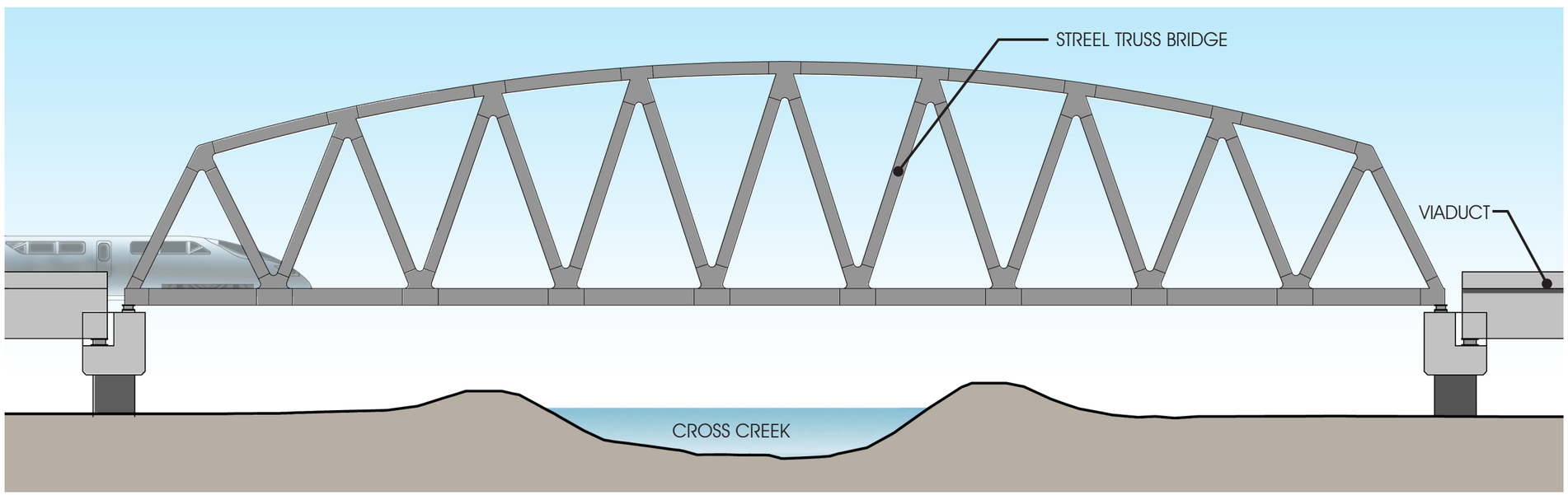
SR-198 under HSR

Aesthetics 1 - Hanford Station DFS Proposed

Aesthetics 2 - Structures over SR-43 and BNSF near Tule River



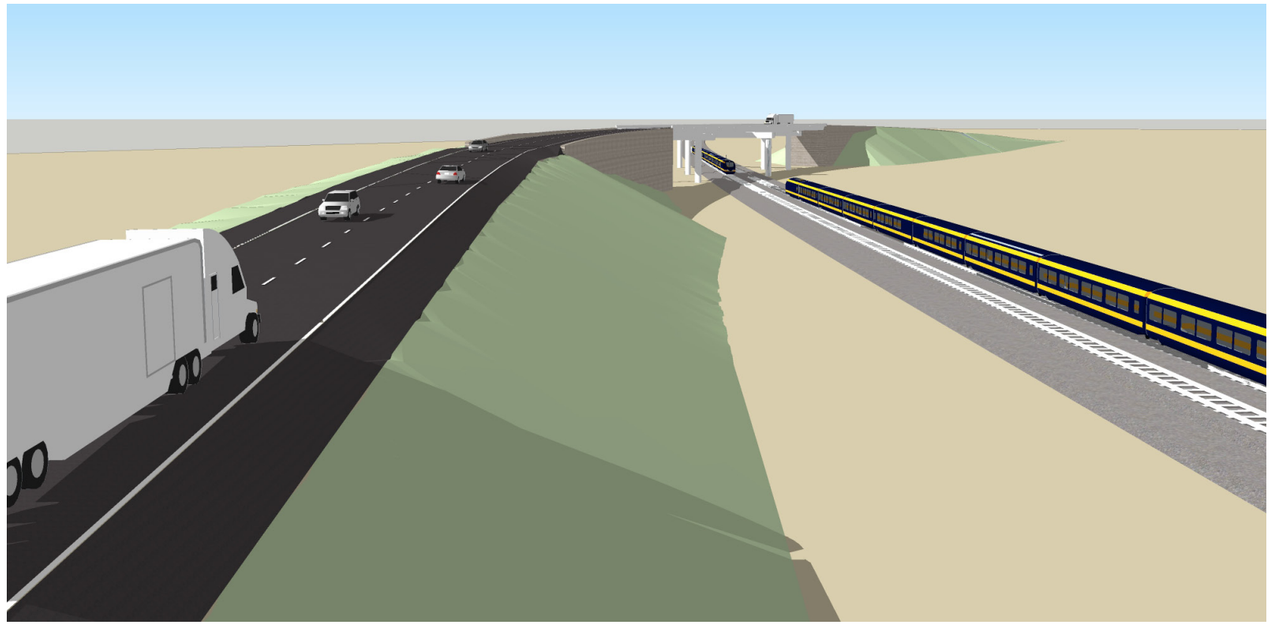
DFS Proposed Design



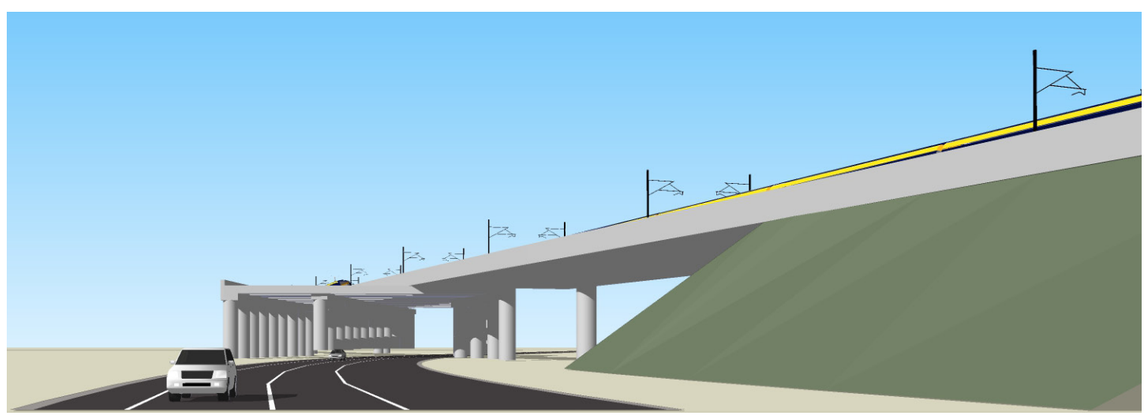
RFP Proposed Design

DFS Proposed Design- Elevated SR-43 over HSR

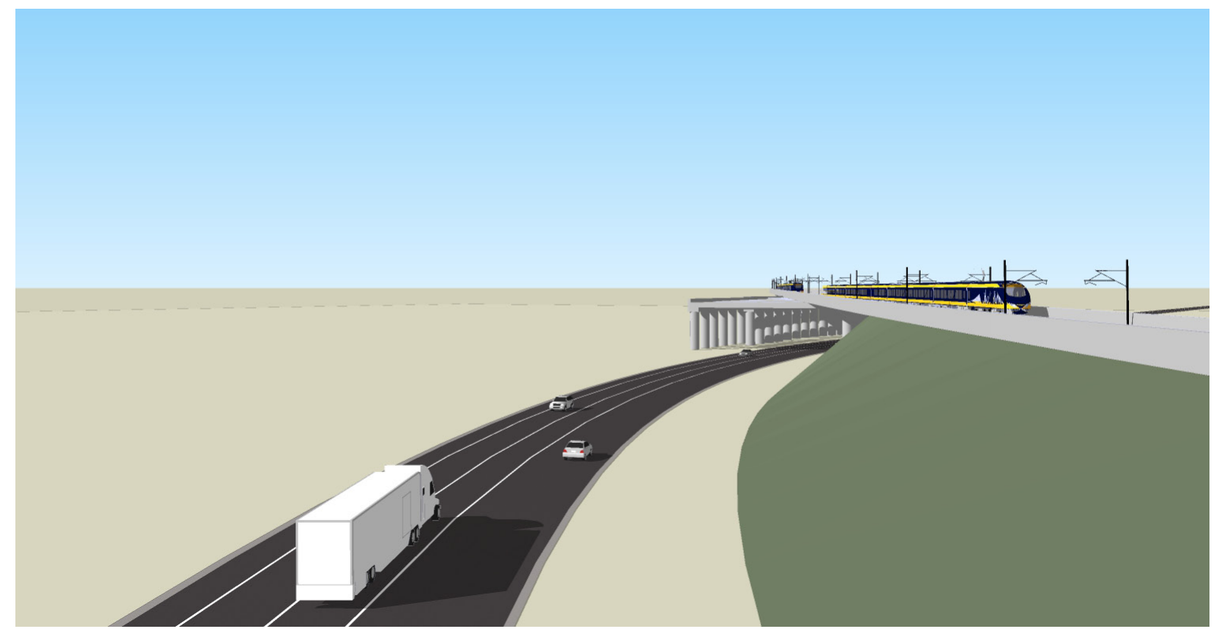
RFP Proposed Design - Elevated HSR over SR-4 3



DFS Proposed DEsign - Elevated SR-43 over HSR

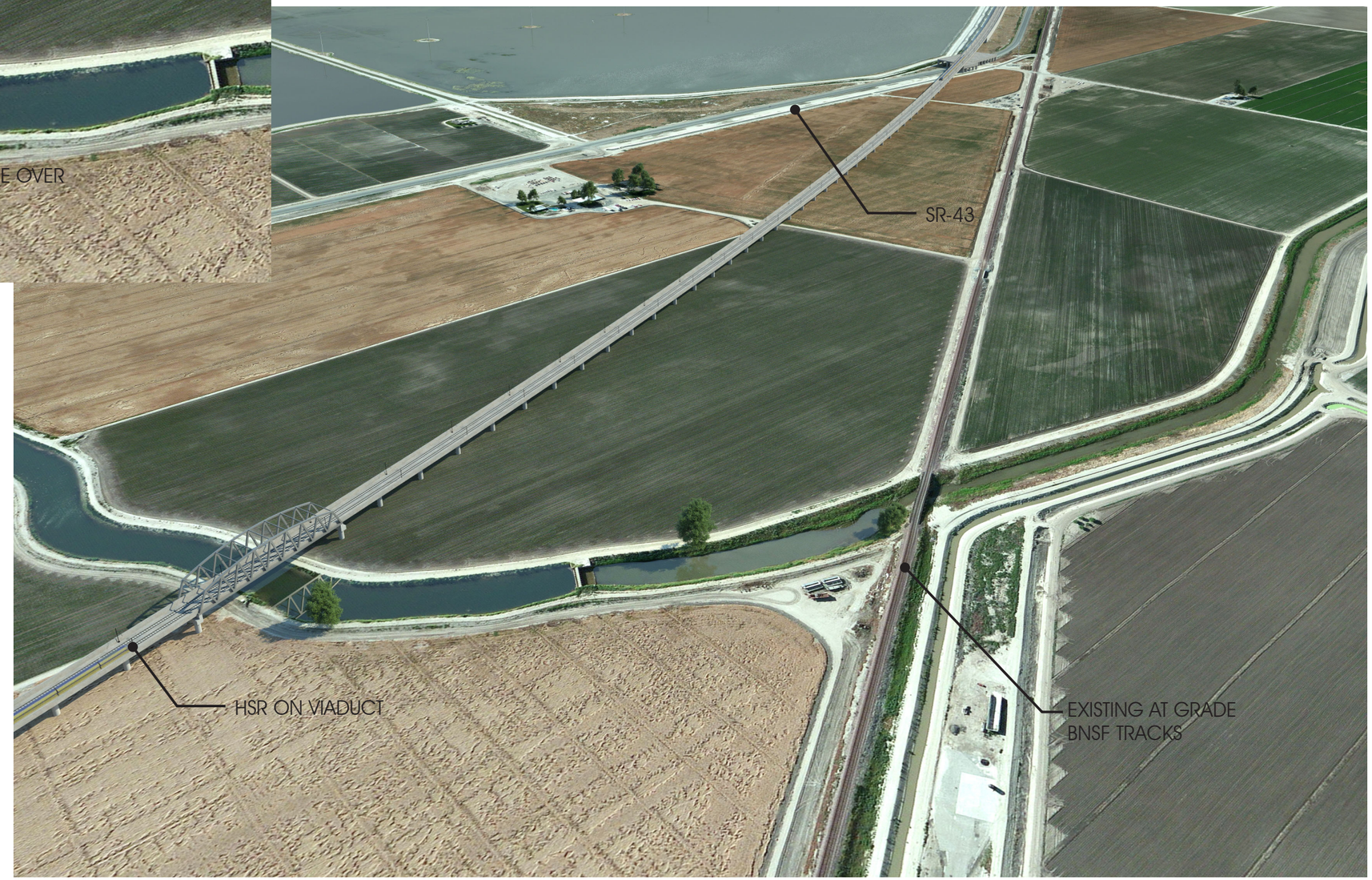


RFP Proposed Design - Elevated HSR over Sr-43

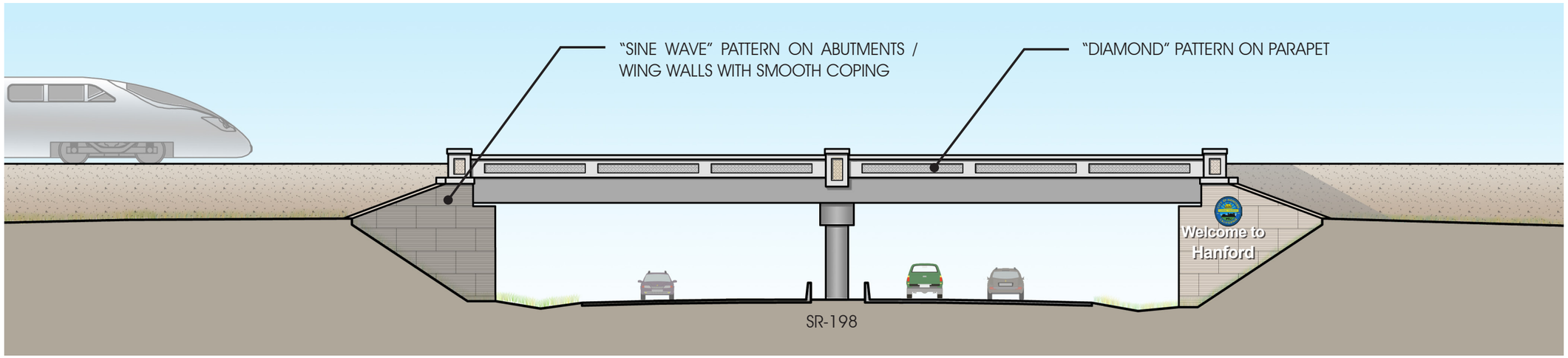


Aesthetics 4 - SR-43 Bridge Vehicle View

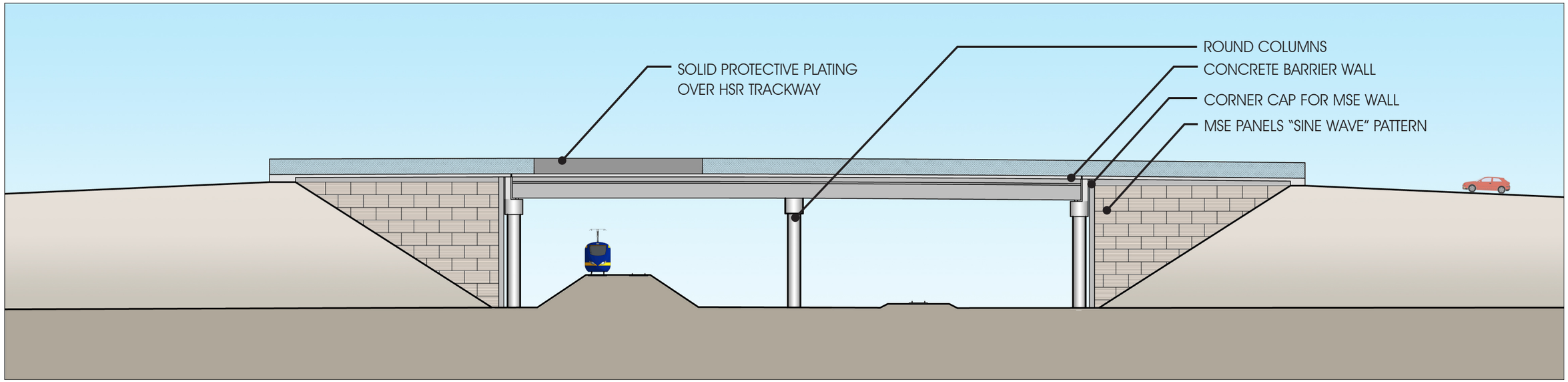
AESTHETICS 3 & 4 - CROSS CREEK BRIDGE & SR-43 BRIDGE, DFS PROPOSED



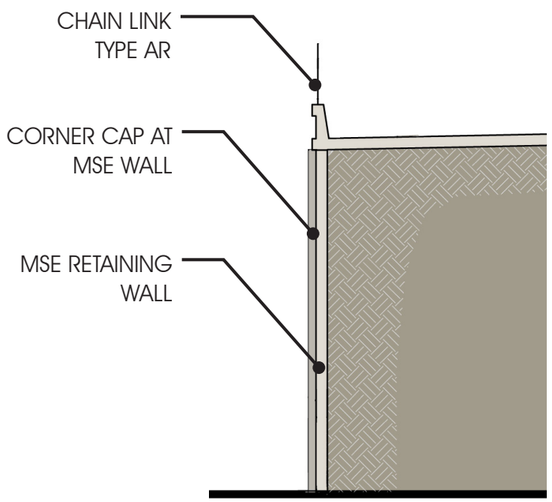
AESTHETICS 3 & 4 - CROSS CREEK BRIDGE & SR-43 BRIDGE, RFP PROPOSED



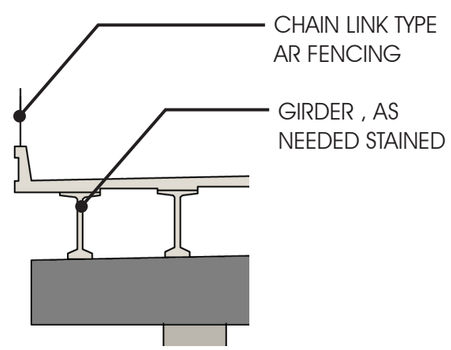
Aesthetics 5 - SR-198 Bridge



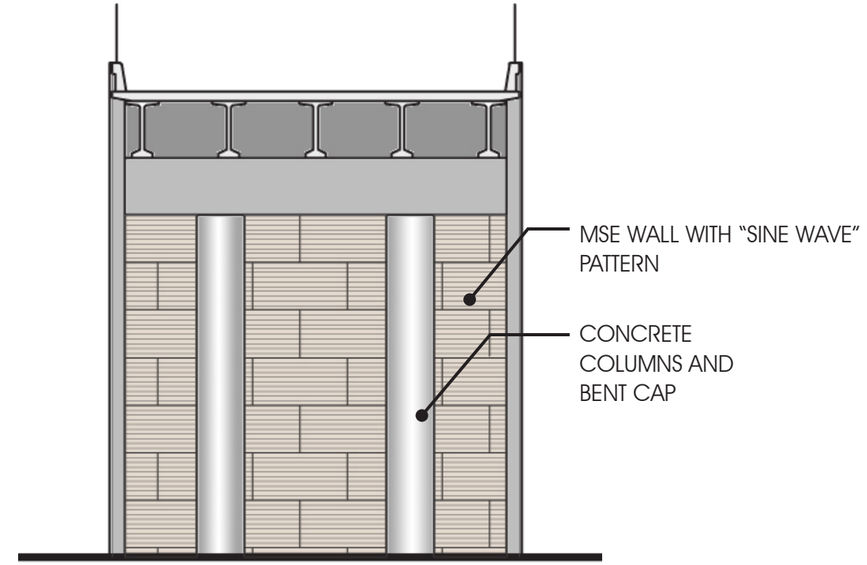
BRIDGE ELEVATION



MSE WALL SECTION



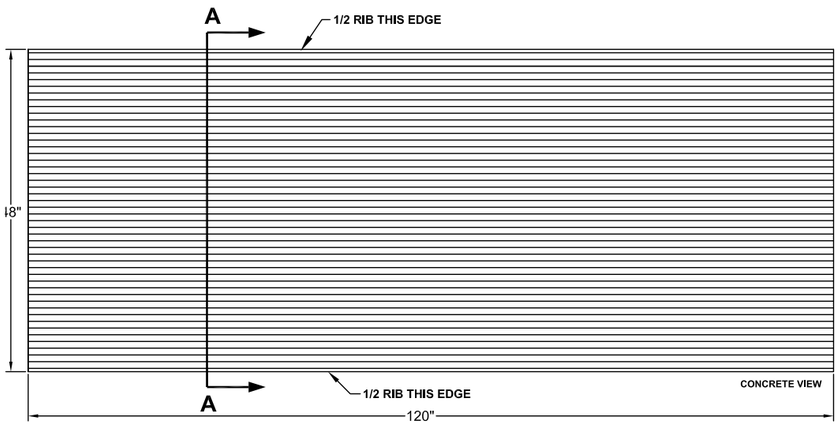
BARRIER WALL AT
BRIDGE SPAN

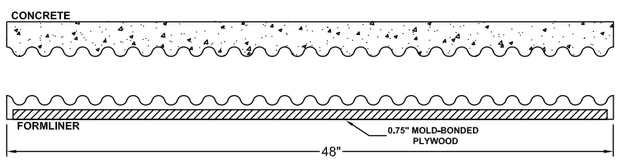


ABUTMENT ELEVATION

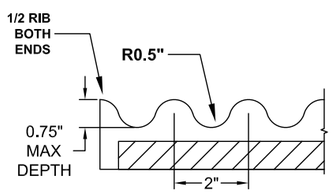
AESTHETICS 6 - TYPICAL ROAD WAY BRIDGE

Sine Wave Pattern



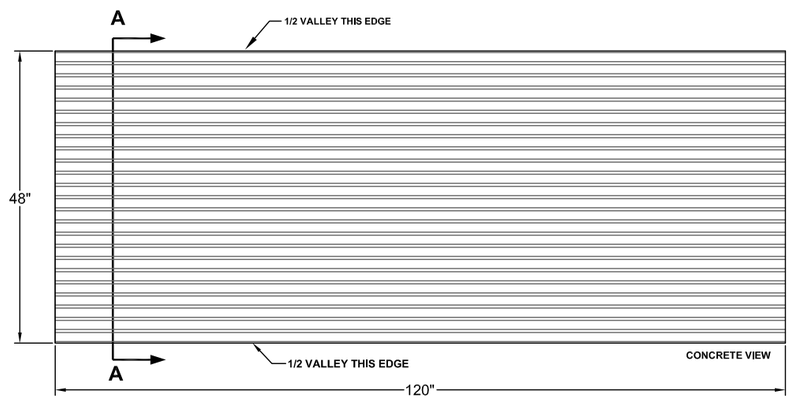


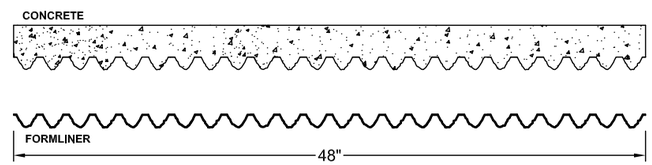
SECTION A-A



FORMLINER DETAIL

Fractured fin Pattern





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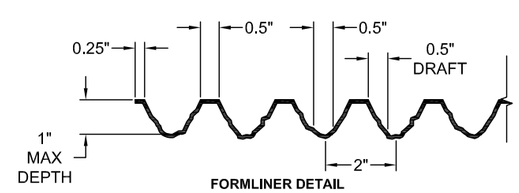
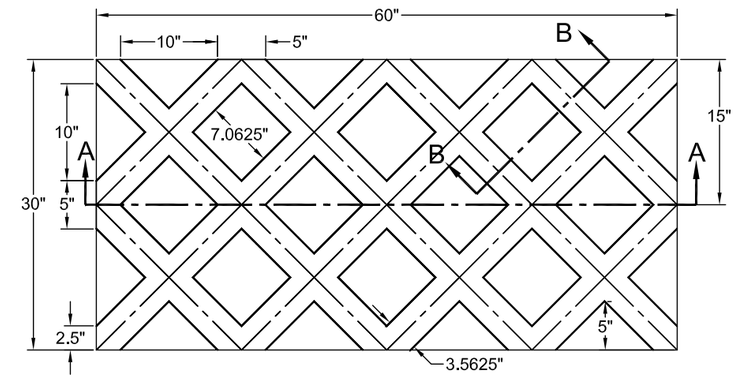
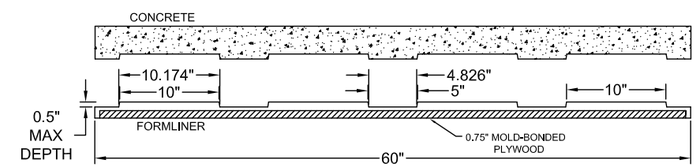


FORMLINER DETAIL

Diamond Pattern





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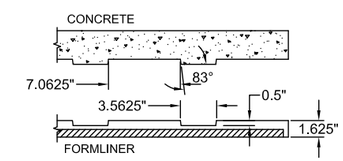
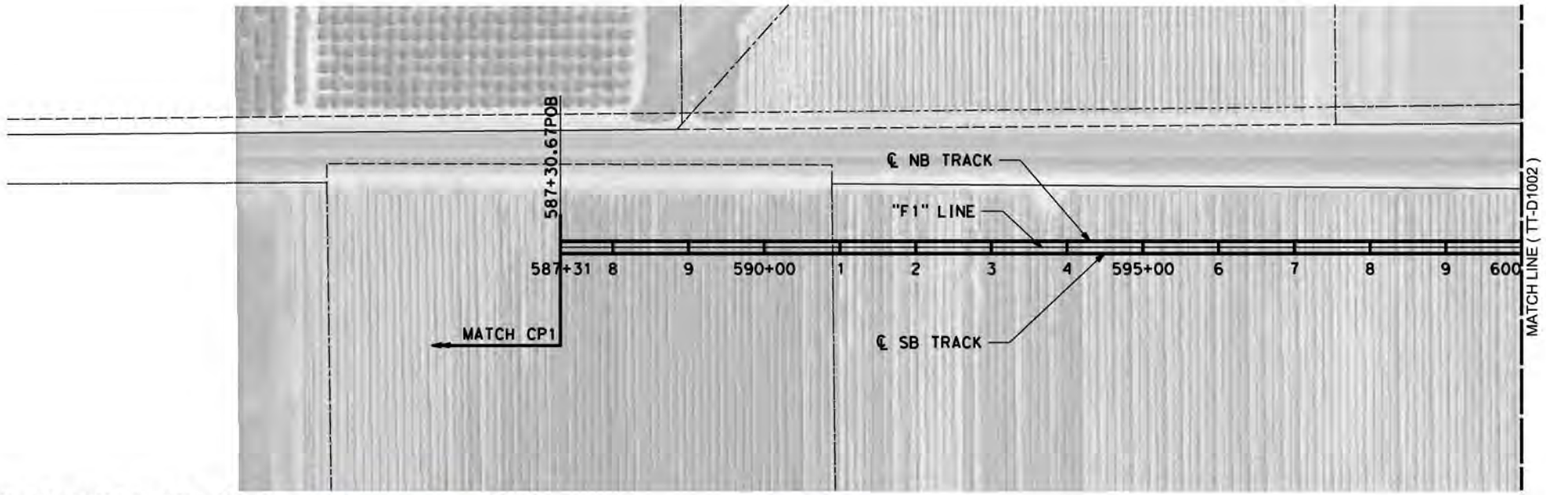


SECTION B-B



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

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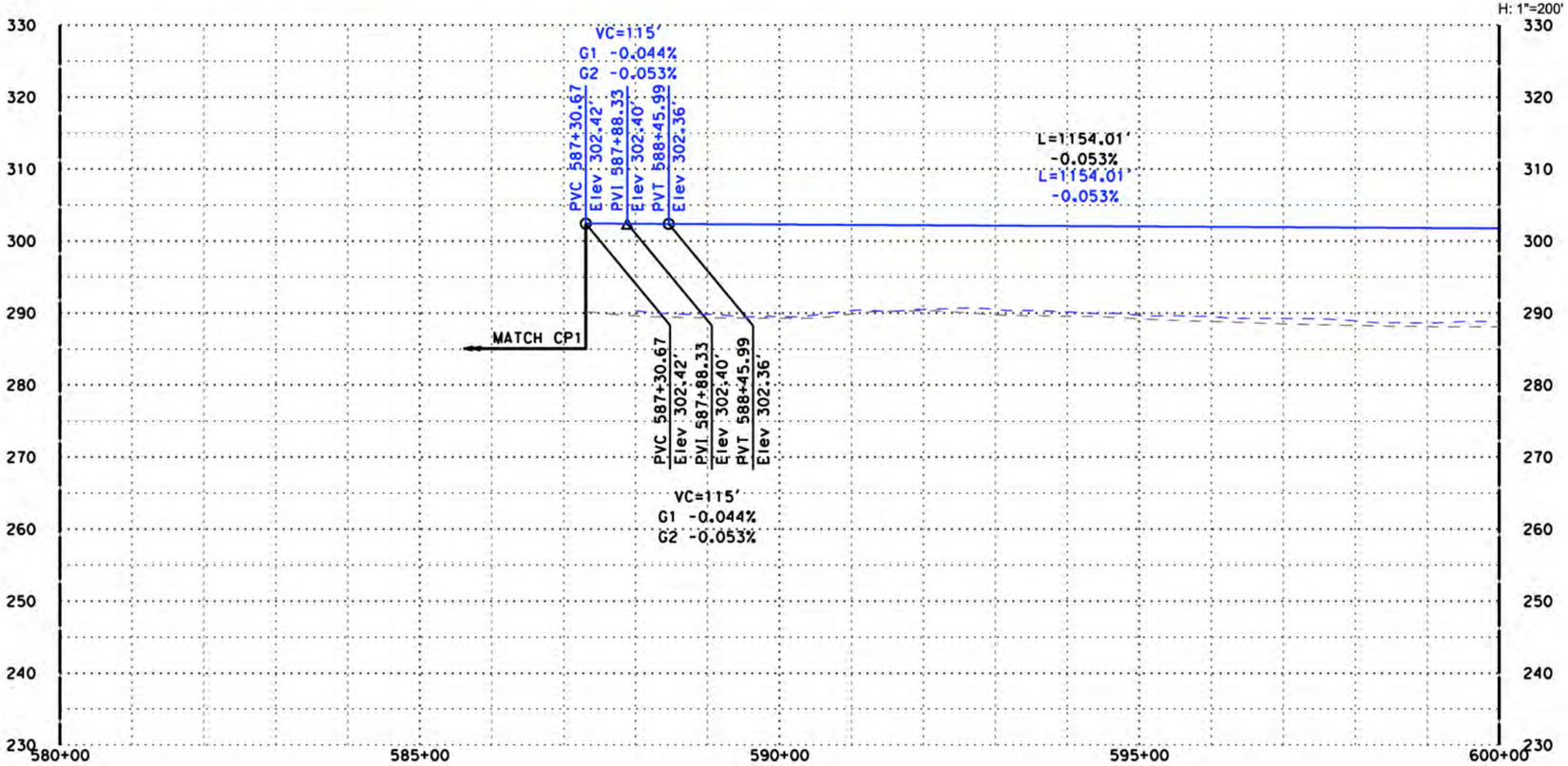
0 20 40 V: 1"=20'



"F1" LINE

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DESIGNED BY P. Barney
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT F1

PLAN AND PROFILE
F1 580+00.00 TO F1 600+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1001
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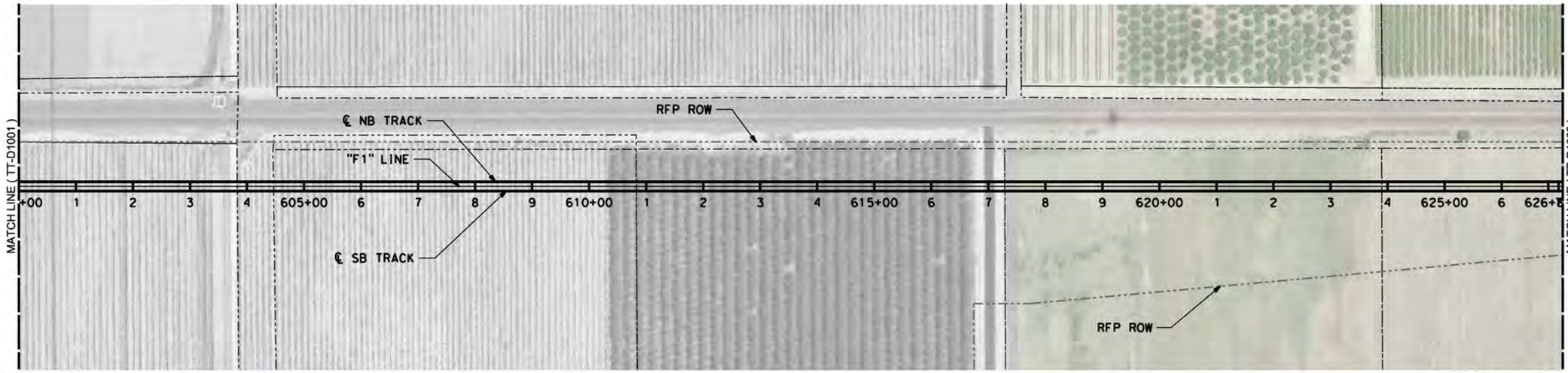

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PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

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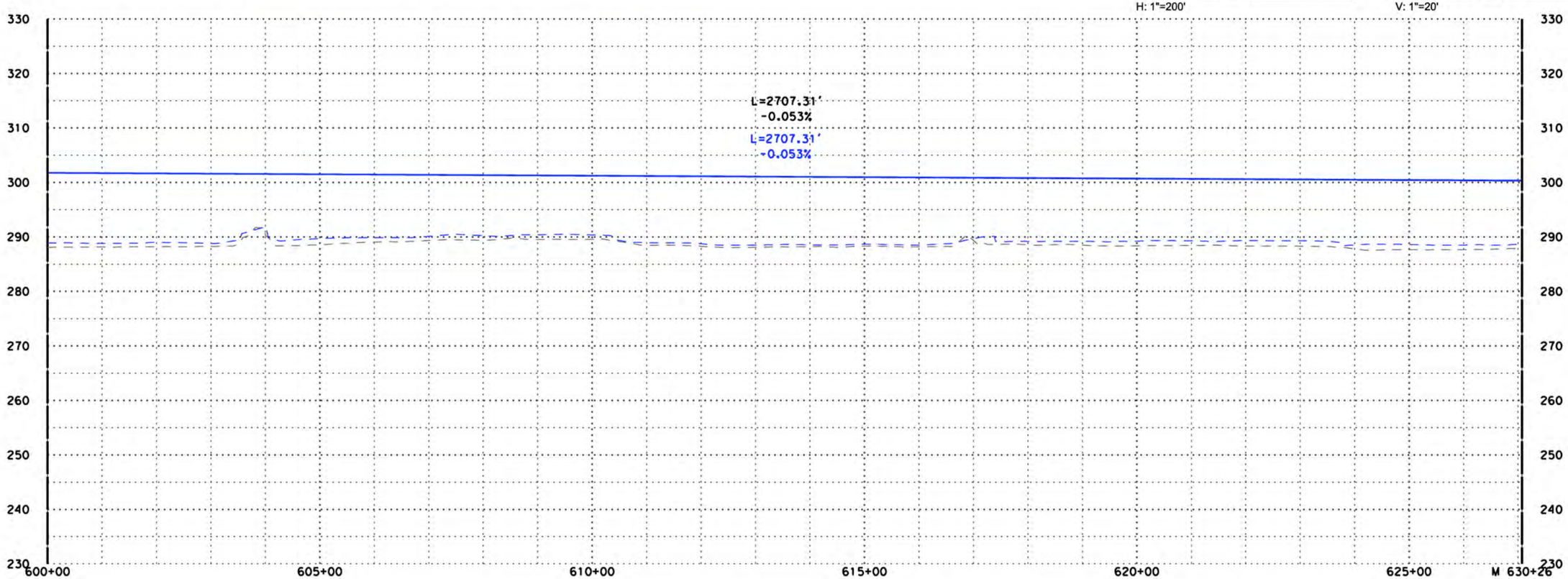

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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT F1

PLAN AND PROFILE
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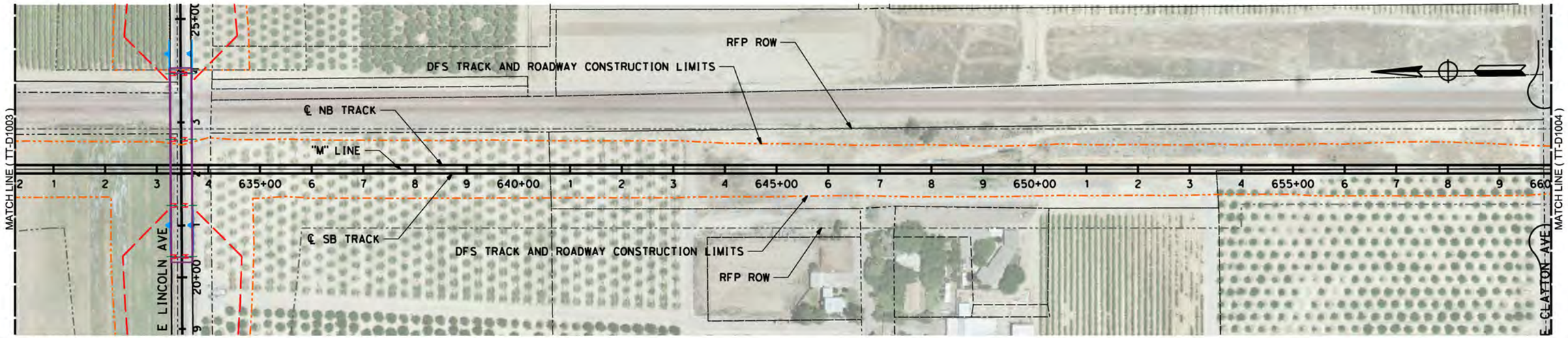

LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

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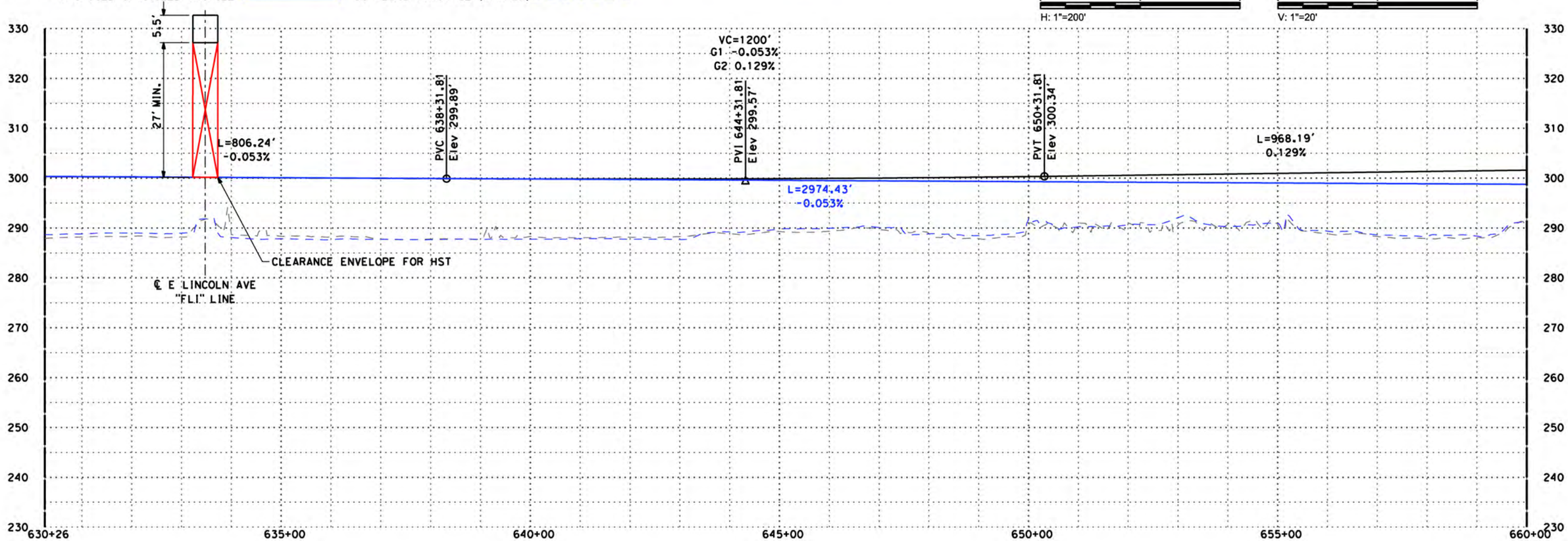

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DRAWN BY Z. Rookhuyzen
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DATE 08/28/14

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
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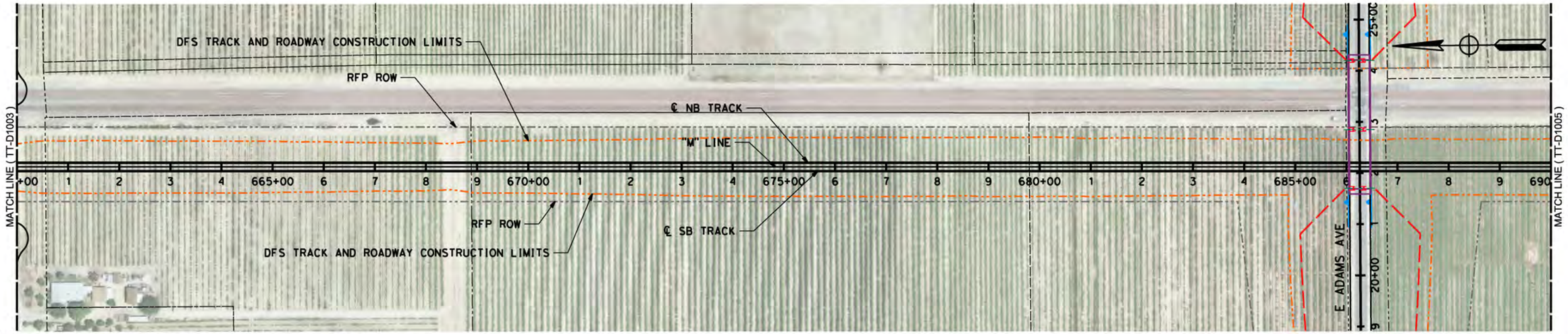

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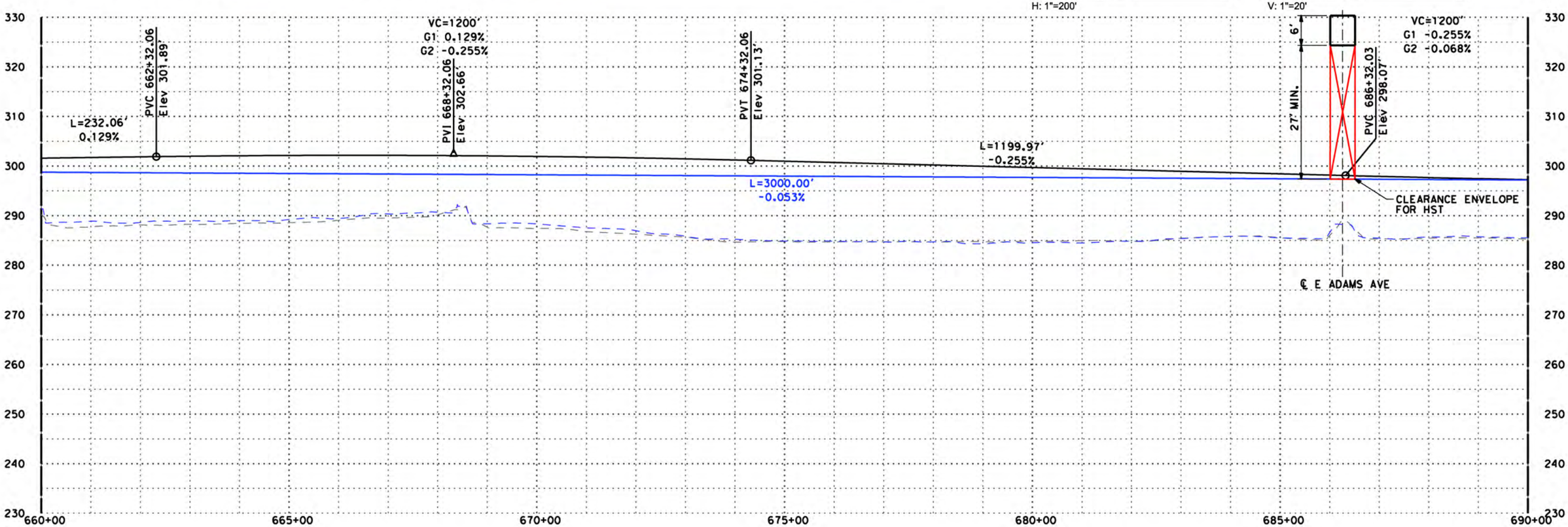

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DESIGNED BY	P. Barney
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
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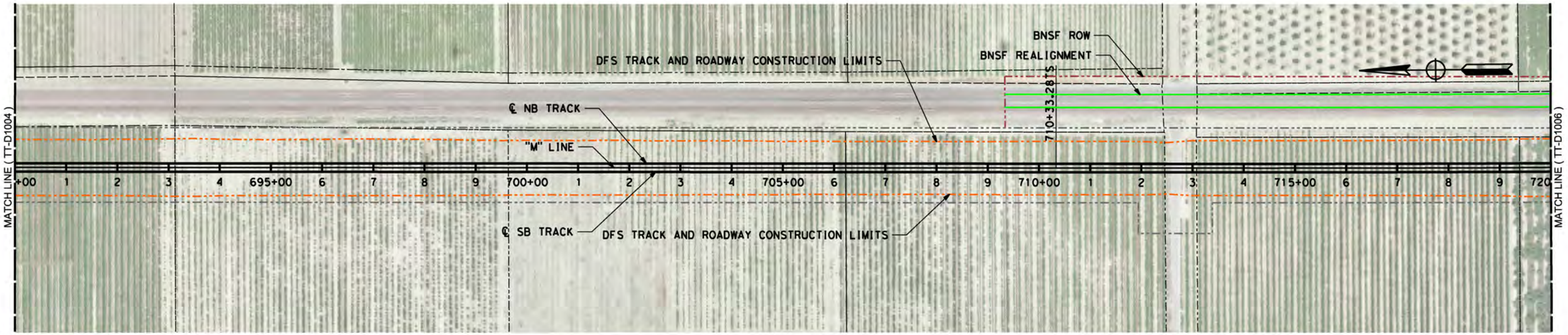

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PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX) - - - - - - - - - - - - - - - -

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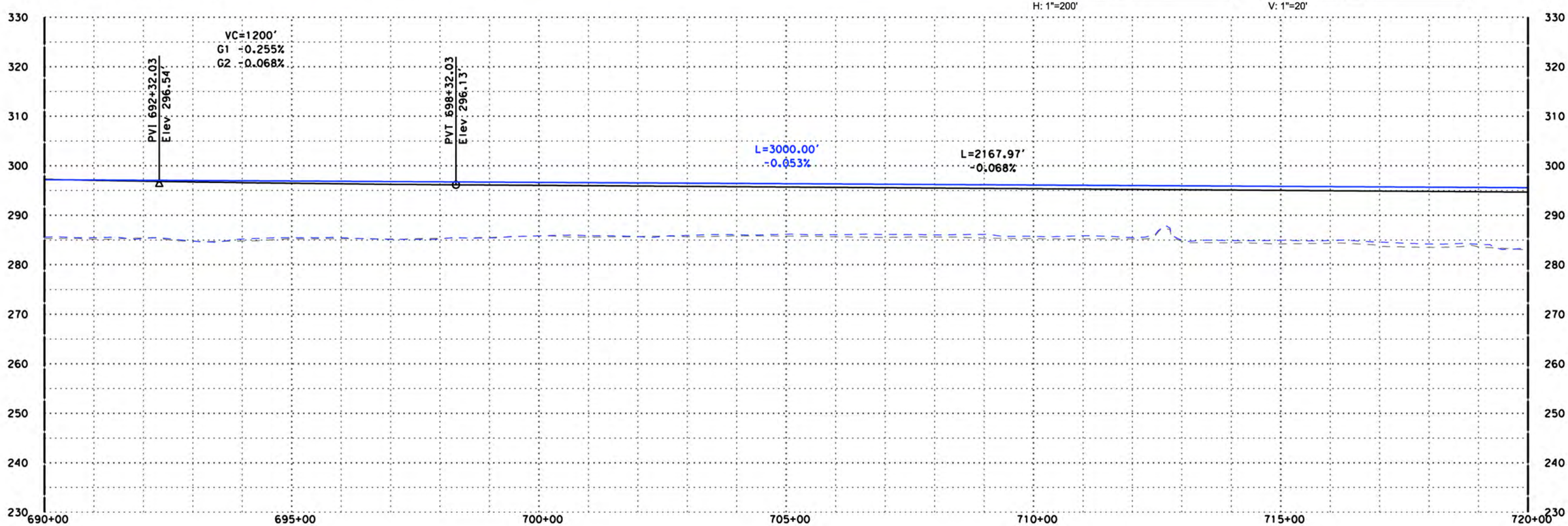

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 8/DATE/2014

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
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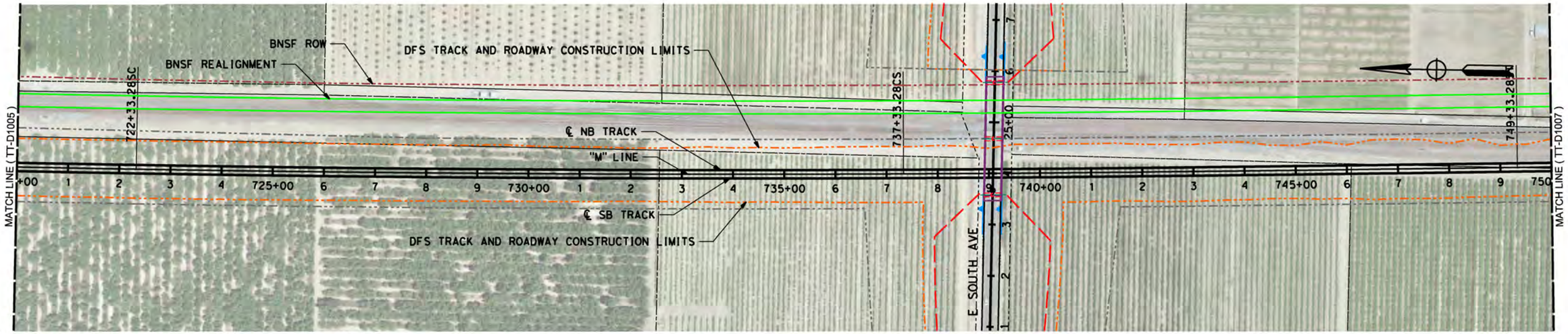

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PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

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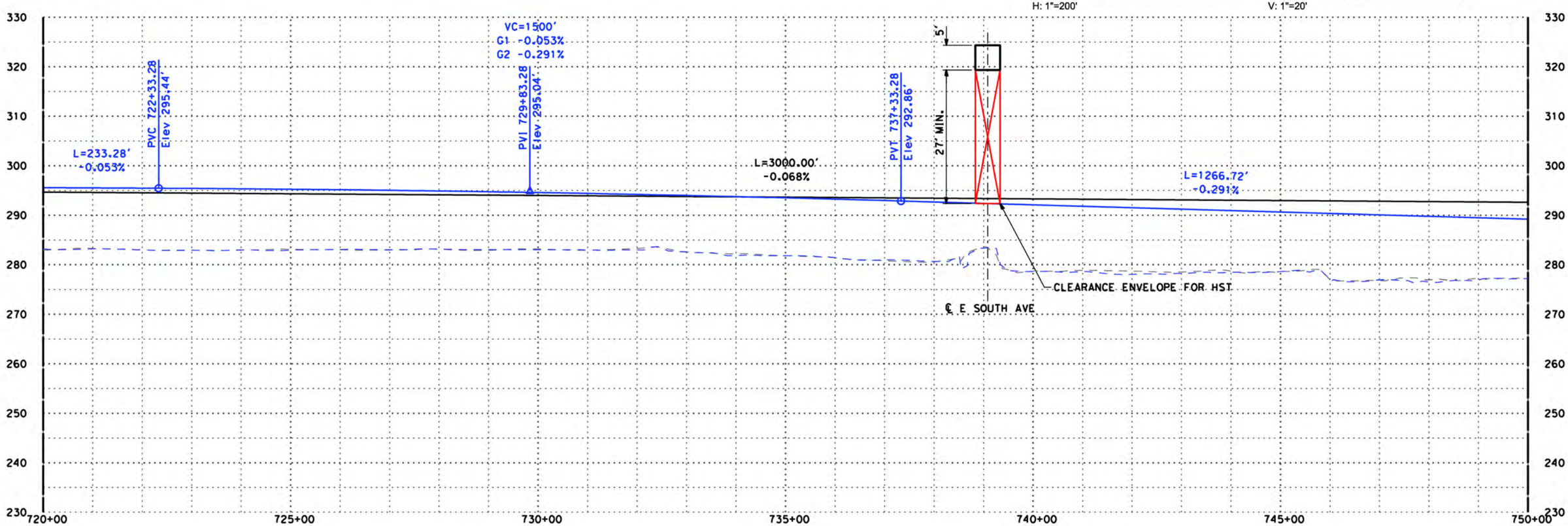

"M" LINE

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DESIGNED BY	P. Barney
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
M 720+00.00 TO M 750+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1006
SCALE	AS SHOWN
SHEET NO.	

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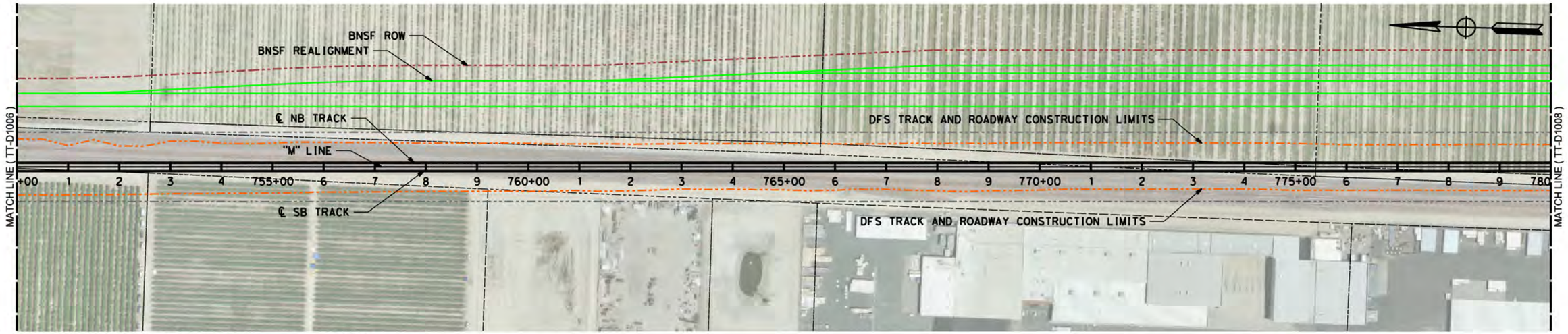
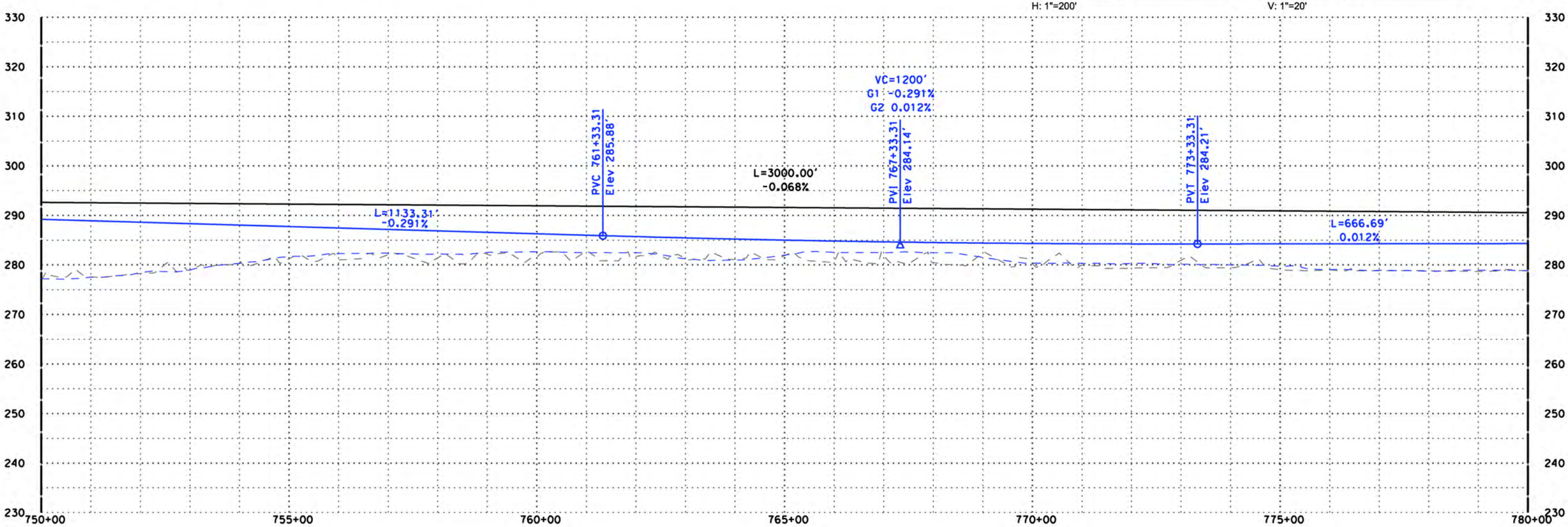


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"M" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
M 750+00.00 TO M 780+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1007
SCALE AS SHOWN
SHEET NO.

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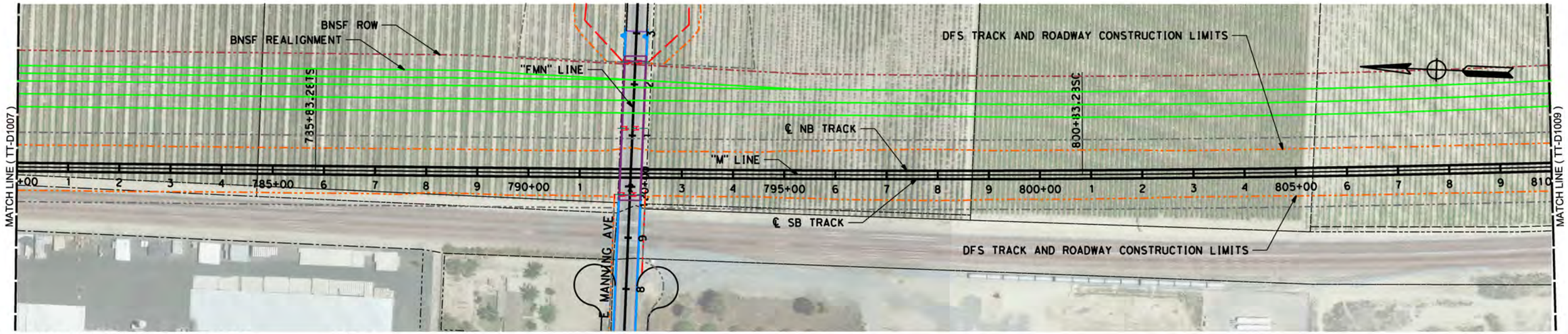
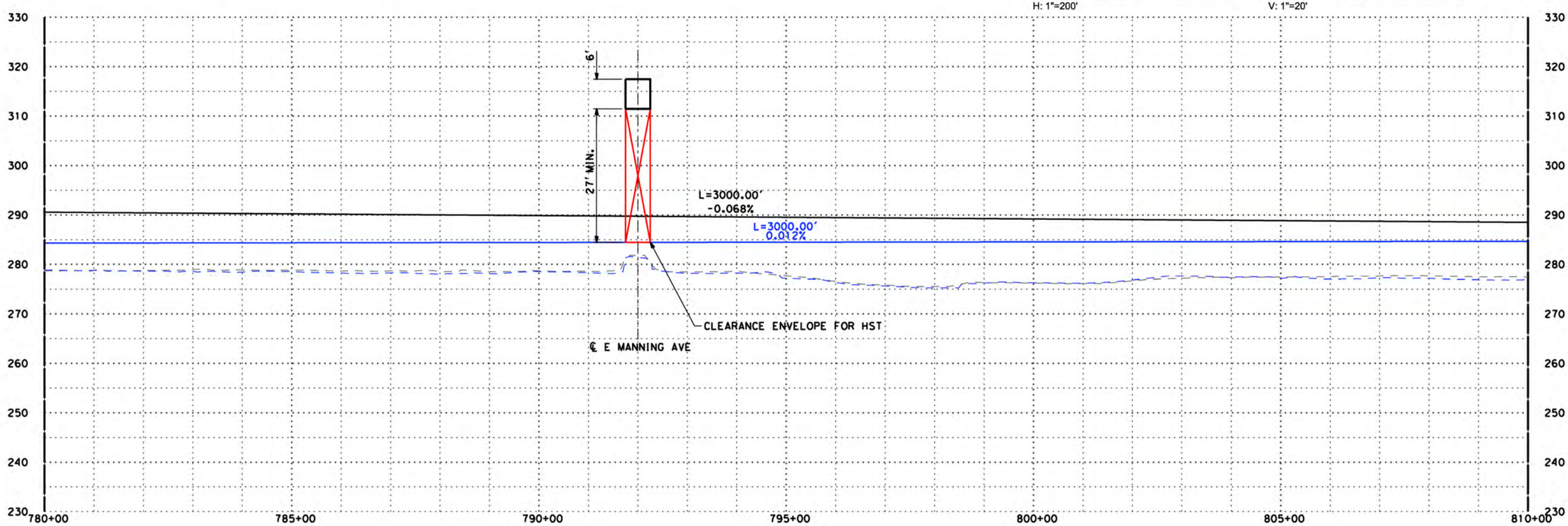


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"M" LINE

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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
M 780+00.00 TO M 810+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1008
SCALE AS SHOWN
SHEET NO.

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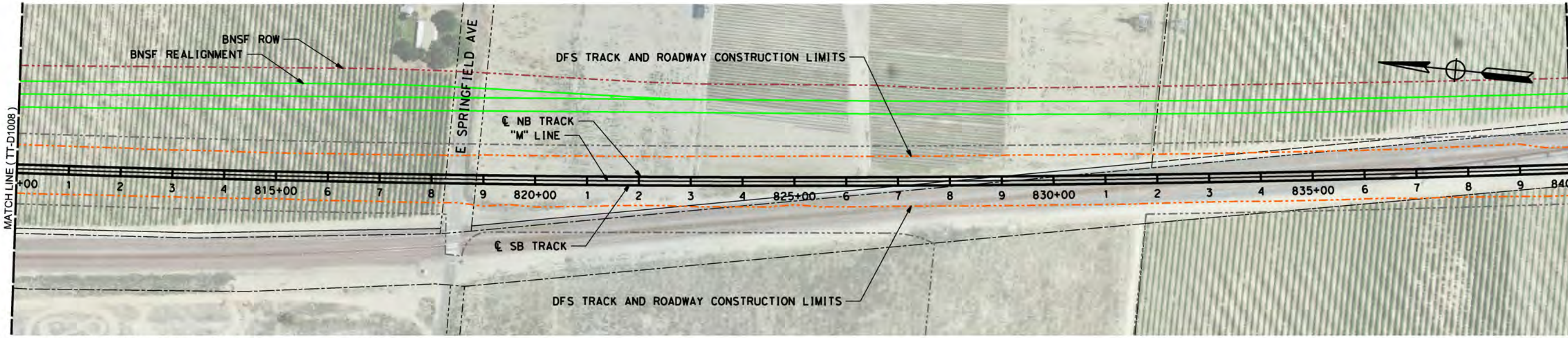

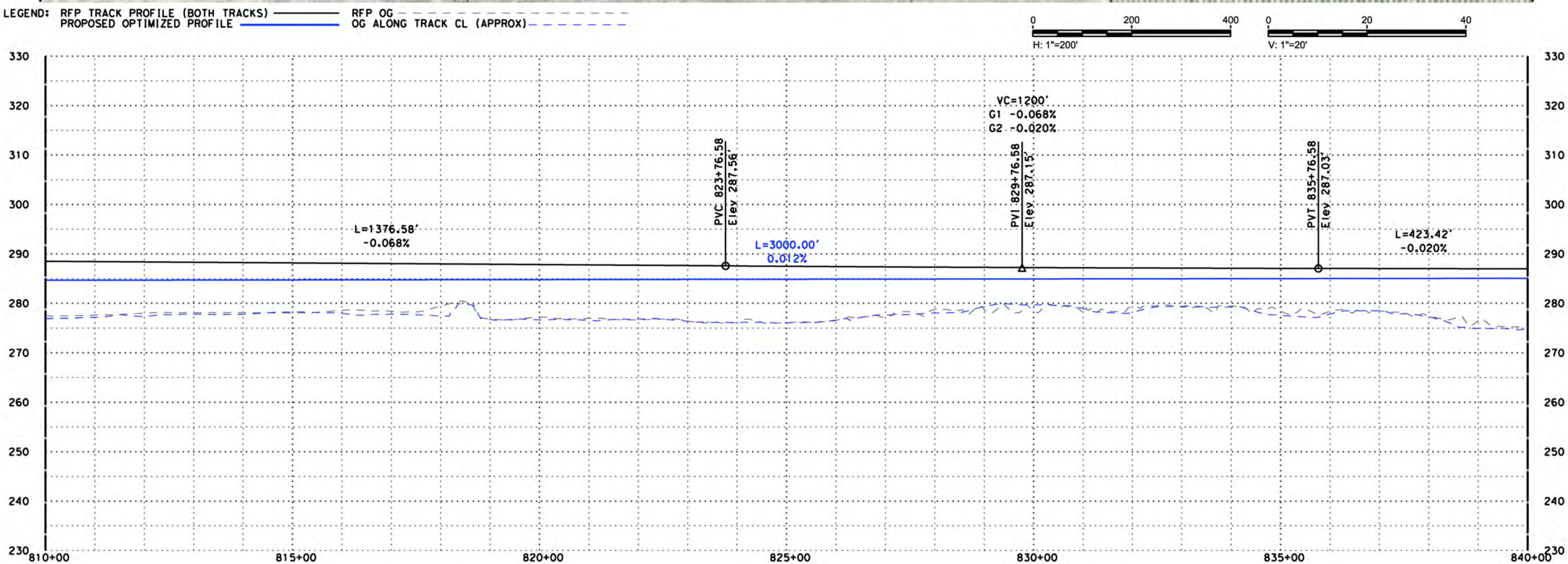

"M" LINE

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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
M 810+00.00 TO M 840+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1009
SCALE	AS SHOWN
SHEET NO.	

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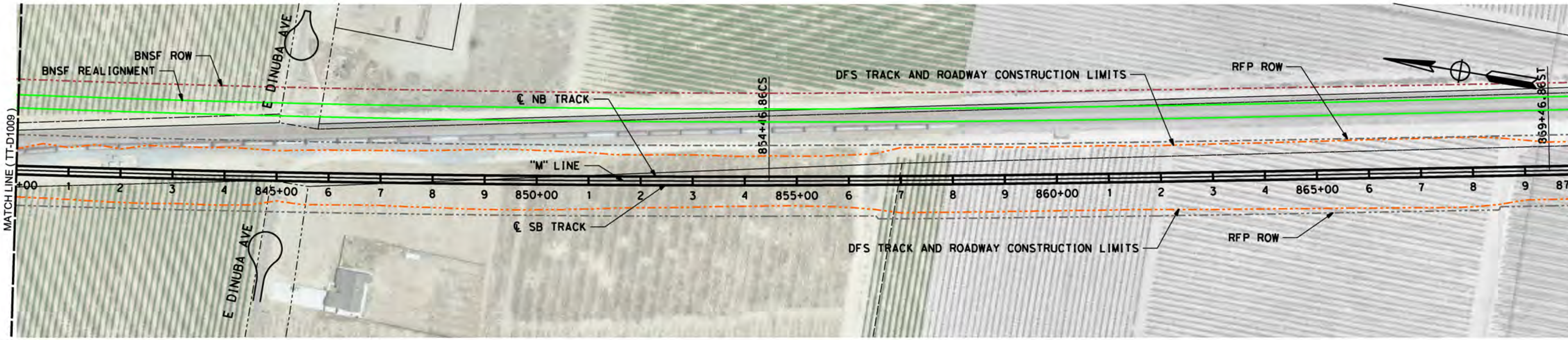
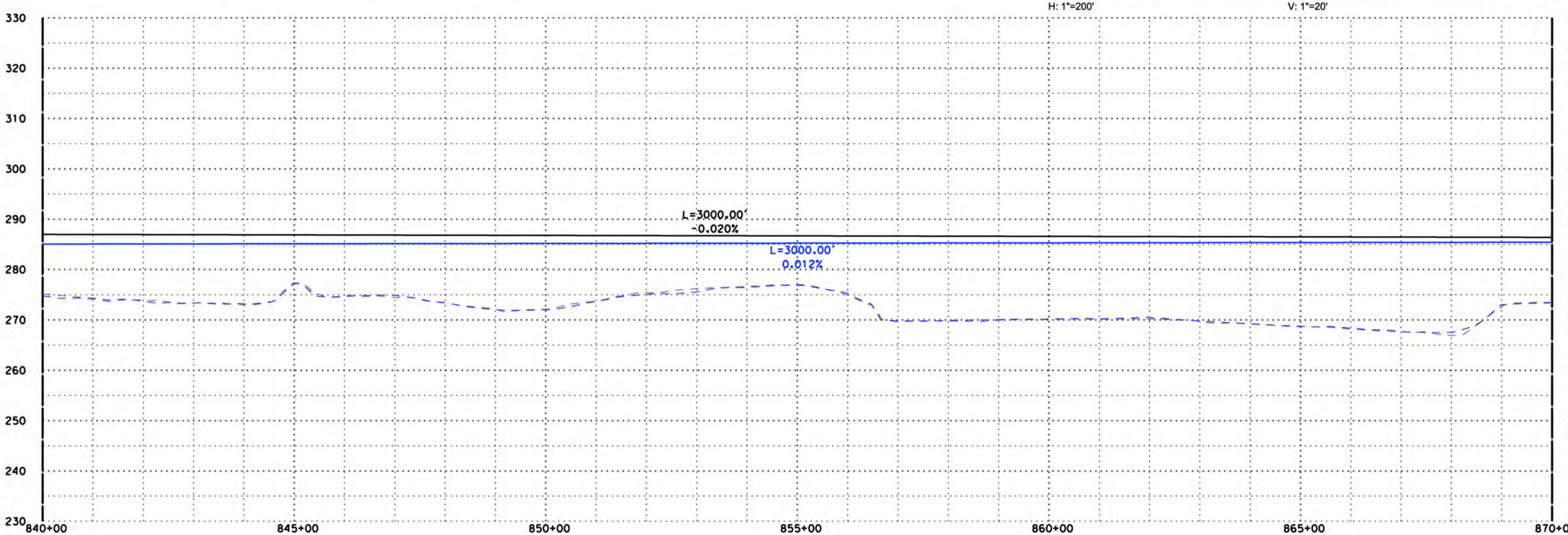


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400)
V: 1"=20' (0, 20, 40)



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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
M 840+00.00 TO M 870+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1010
SCALE	AS SHOWN
SHEET NO.	

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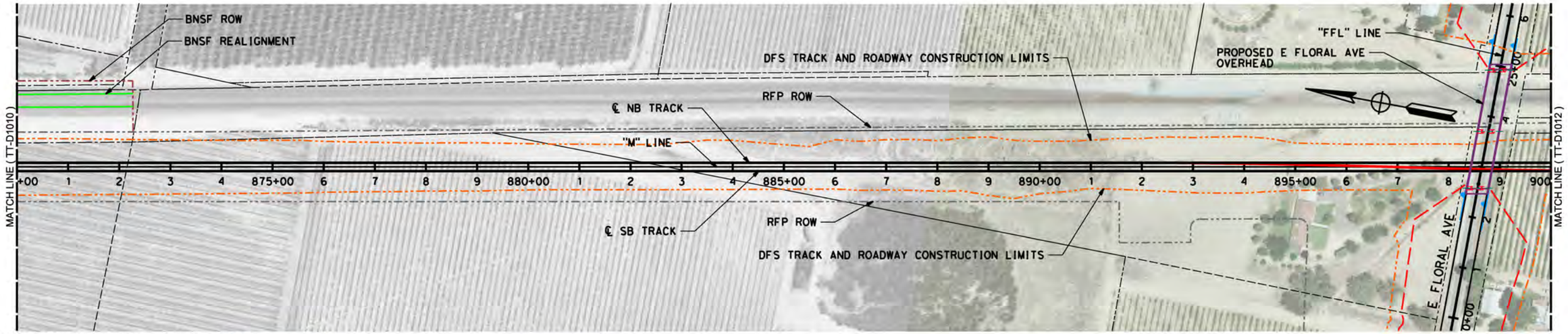
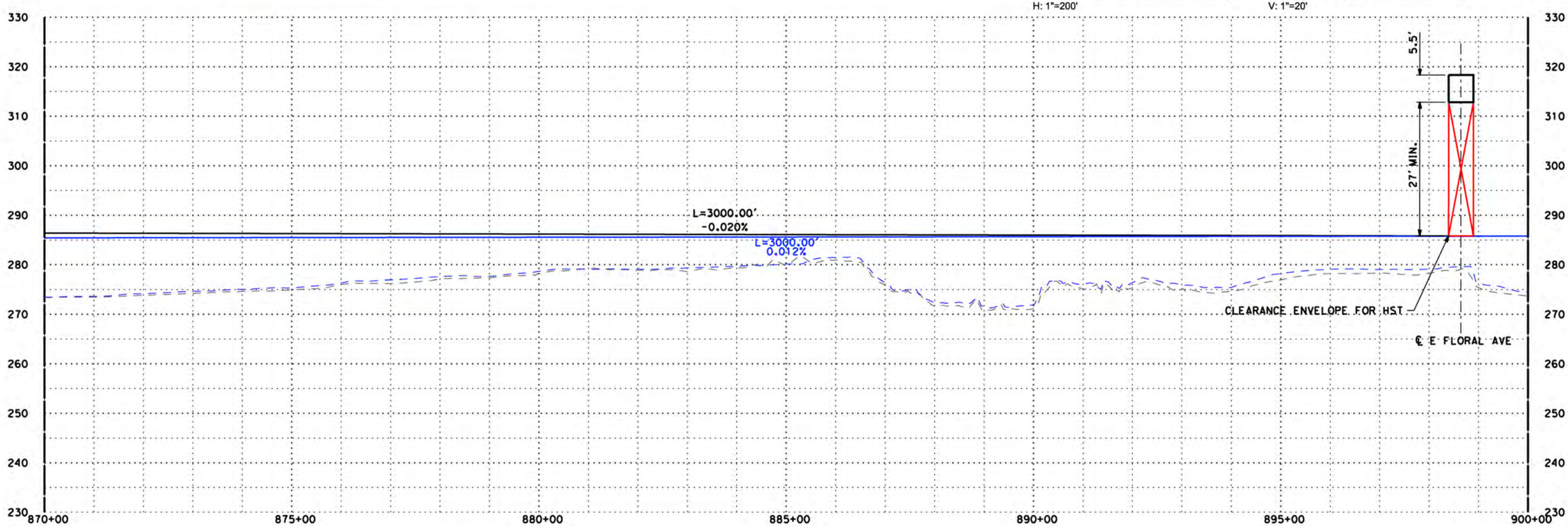


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
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NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
M 870+00.00 TO M 900+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1011
SCALE	AS SHOWN
SHEET NO.	

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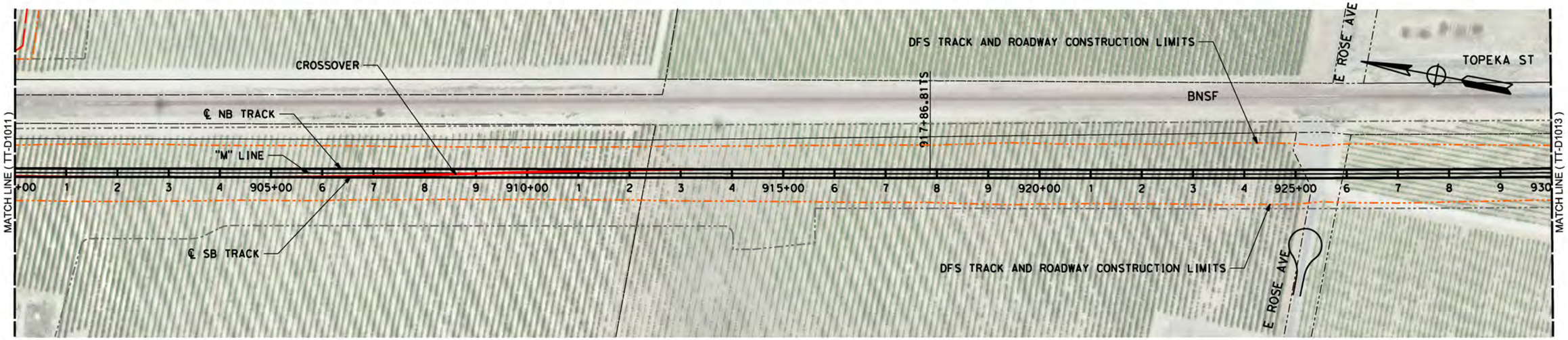
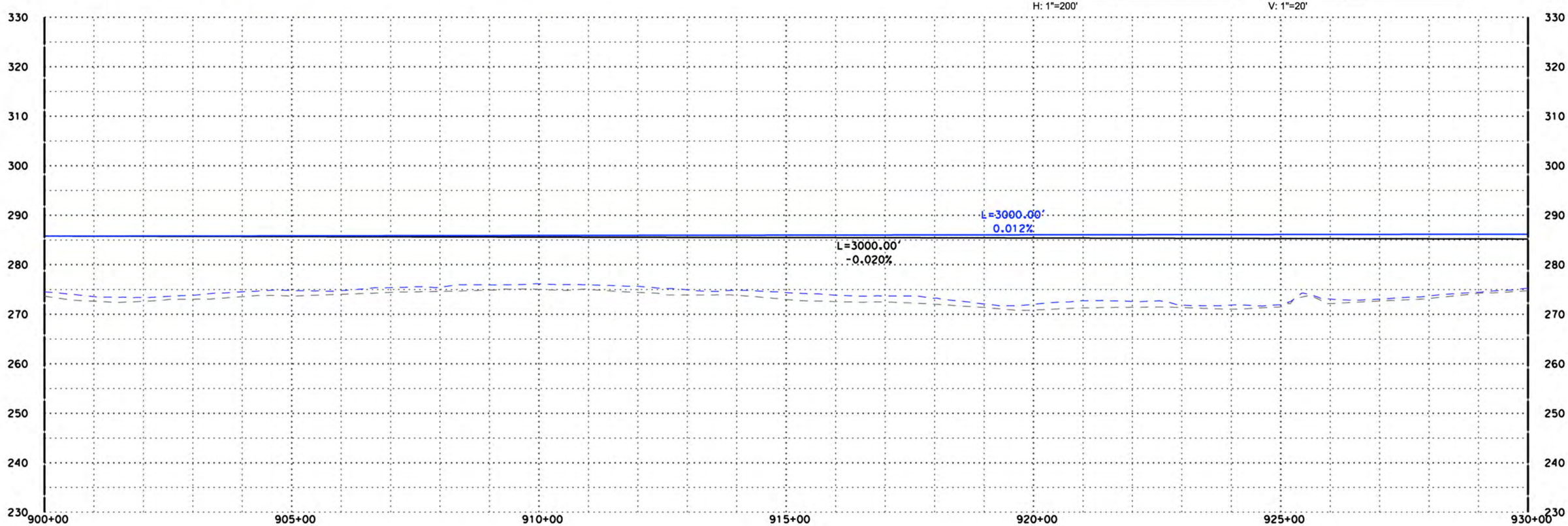


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"M" LINE

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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE DATE 2014

RECORD SET 15% DESIGN SUBMISSION
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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
M 900+00.00 TO M 930+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1012
SCALE AS SHOWN
SHEET NO.

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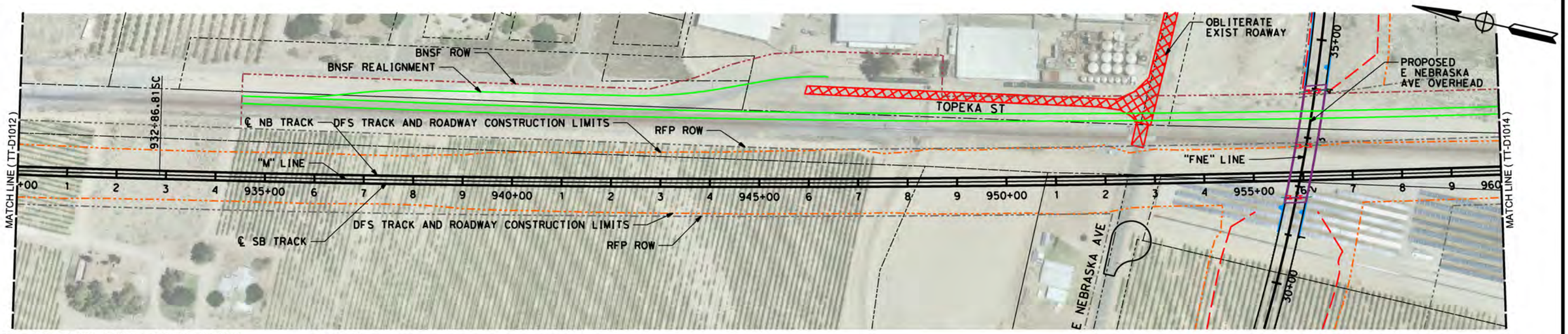
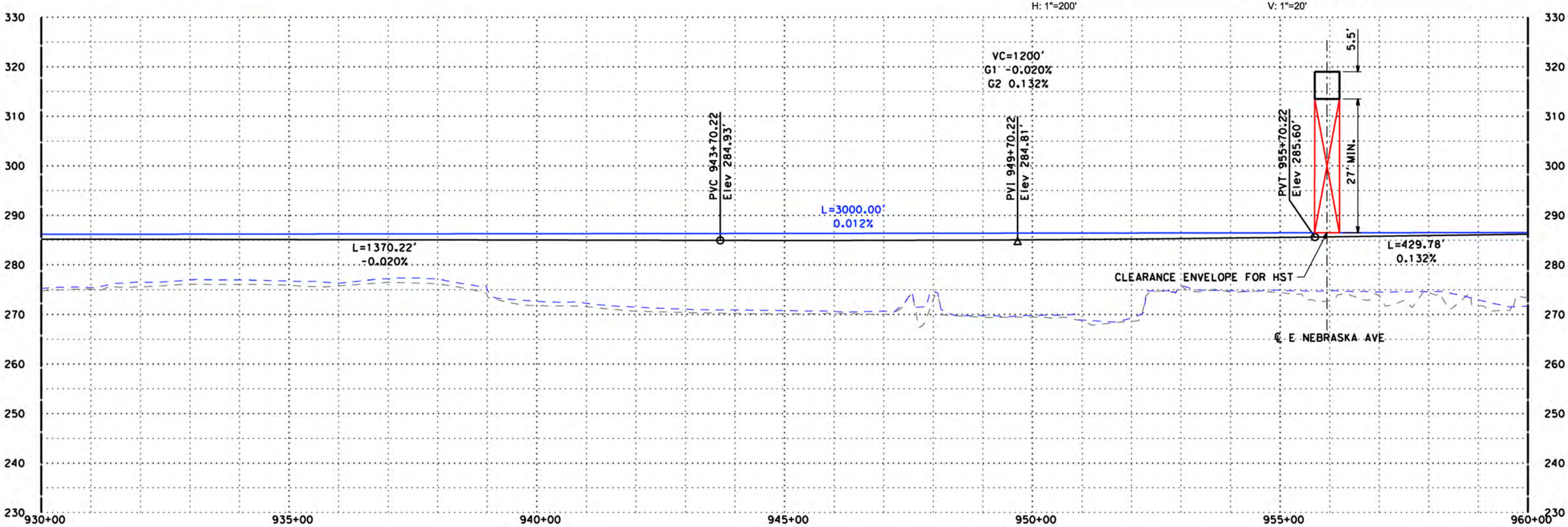


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
M 930+00.00 TO M 960+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1013
SCALE AS SHOWN
SHEET NO.

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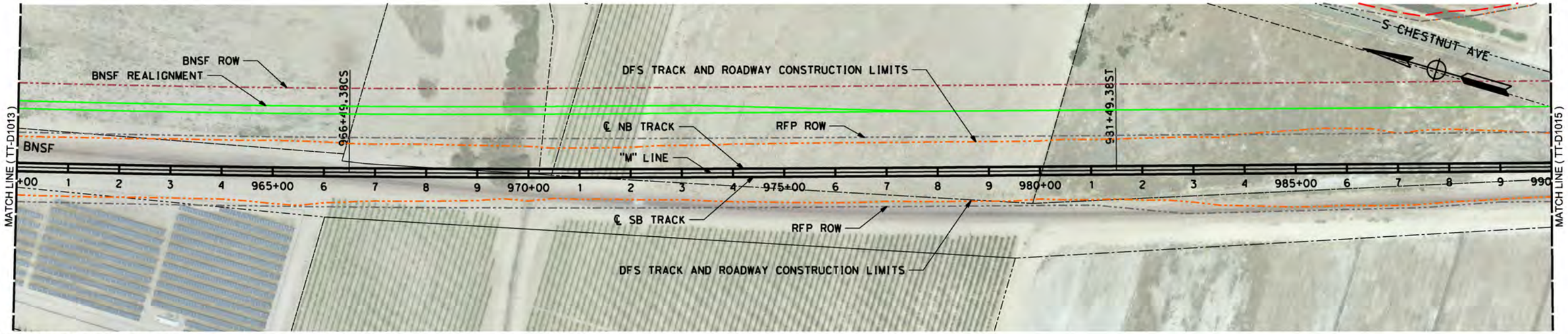
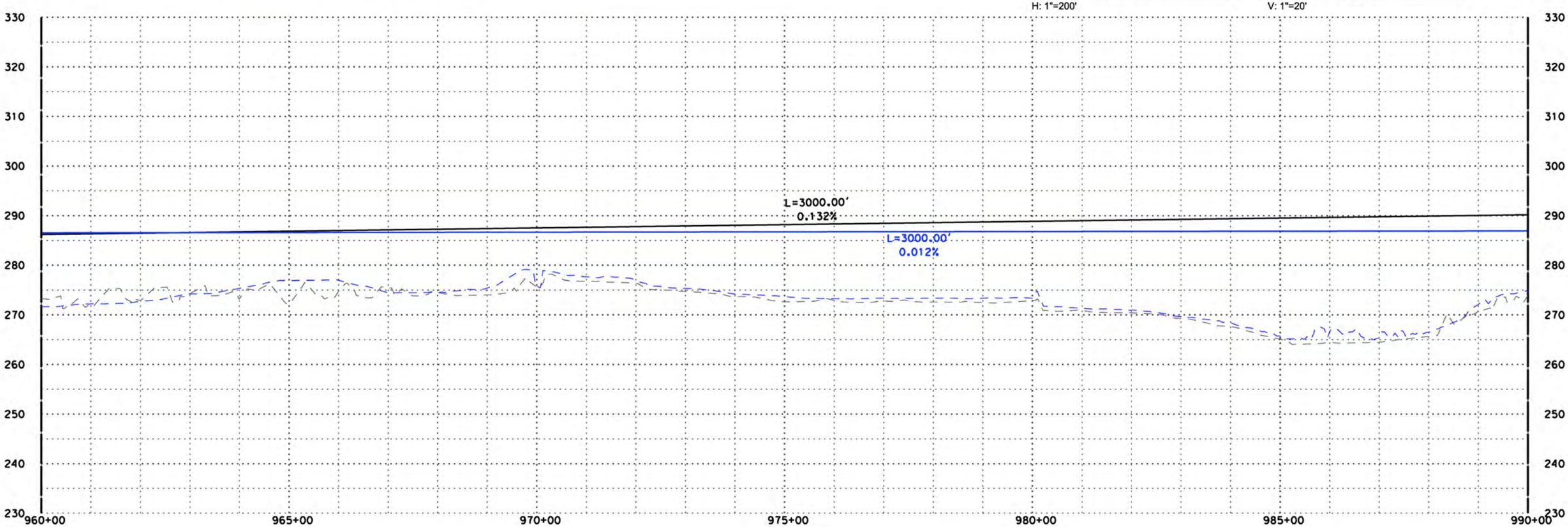


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG - - - - - - - - - - - - - - - - - -
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX) - - - - - - - - - - - - - -

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"M" LINE

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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
M 960+00.00 TO **M 990+00.00**

CONTRACT NO. HSR 06-0003
DRAWING NO. D1014
SCALE AS SHOWN
SHEET NO.

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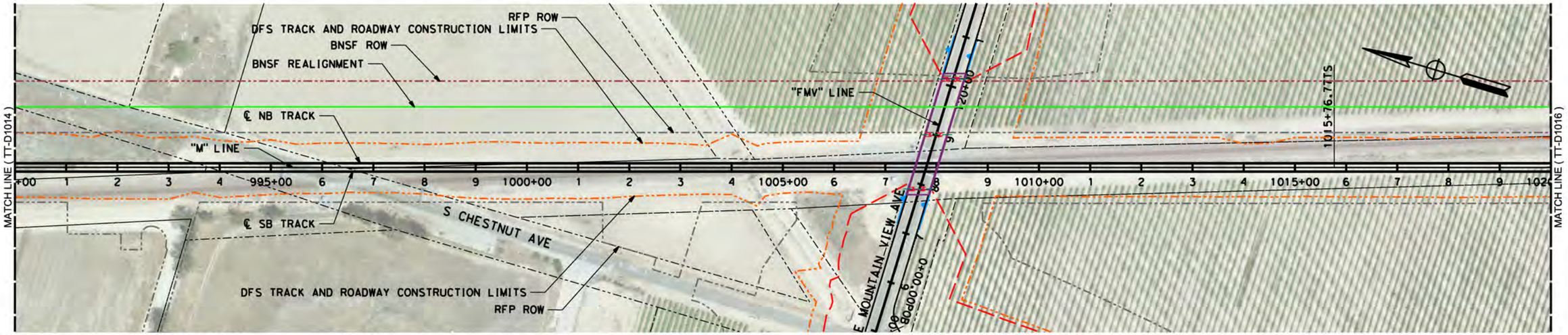
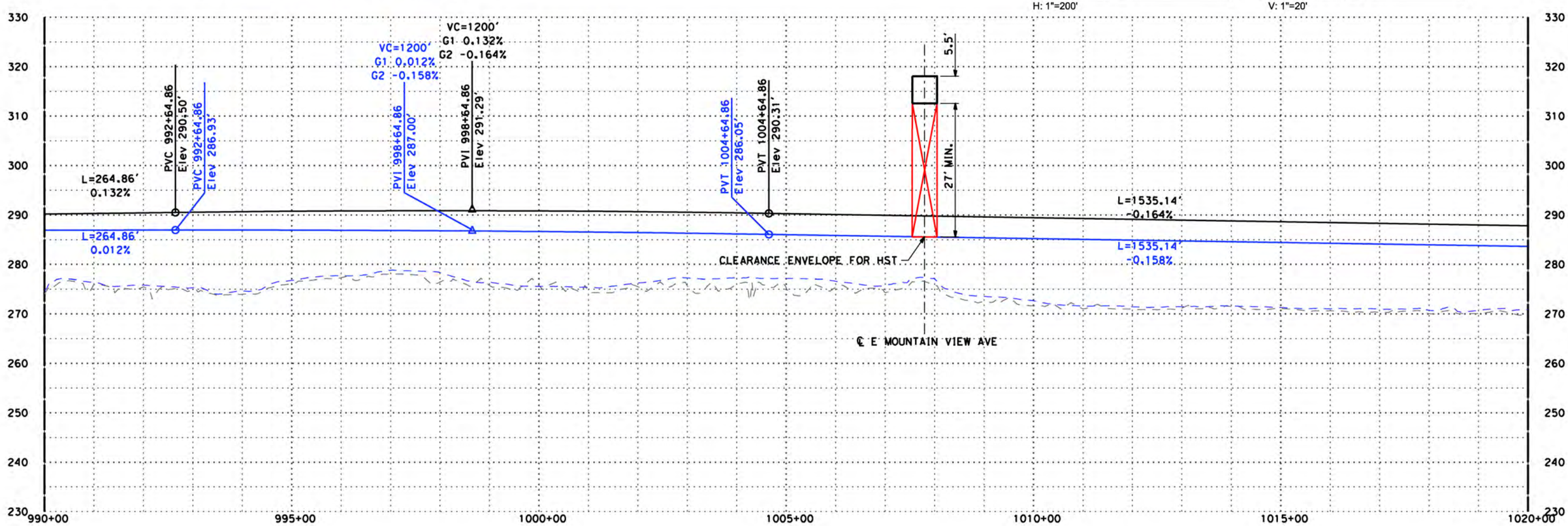


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
M 990+00.00 TO M 1020+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1015
SCALE AS SHOWN
SHEET NO.

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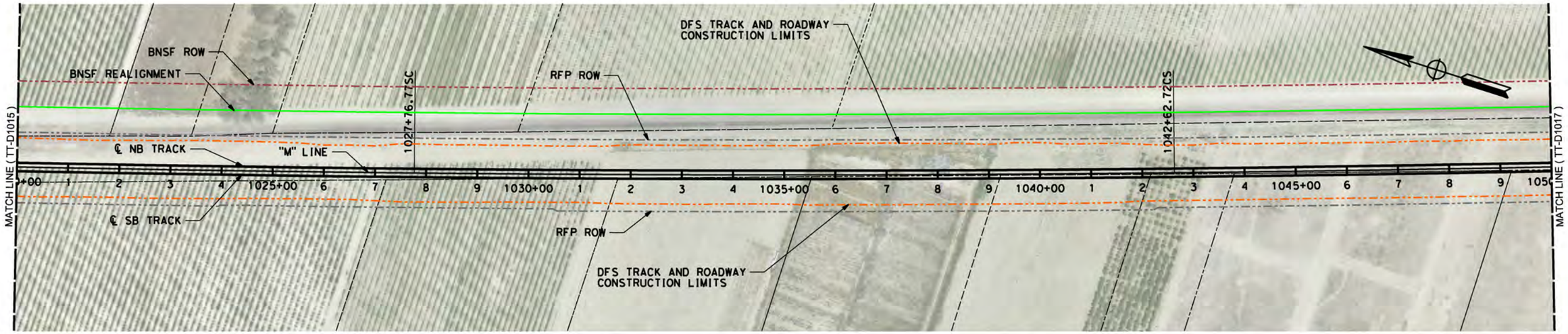
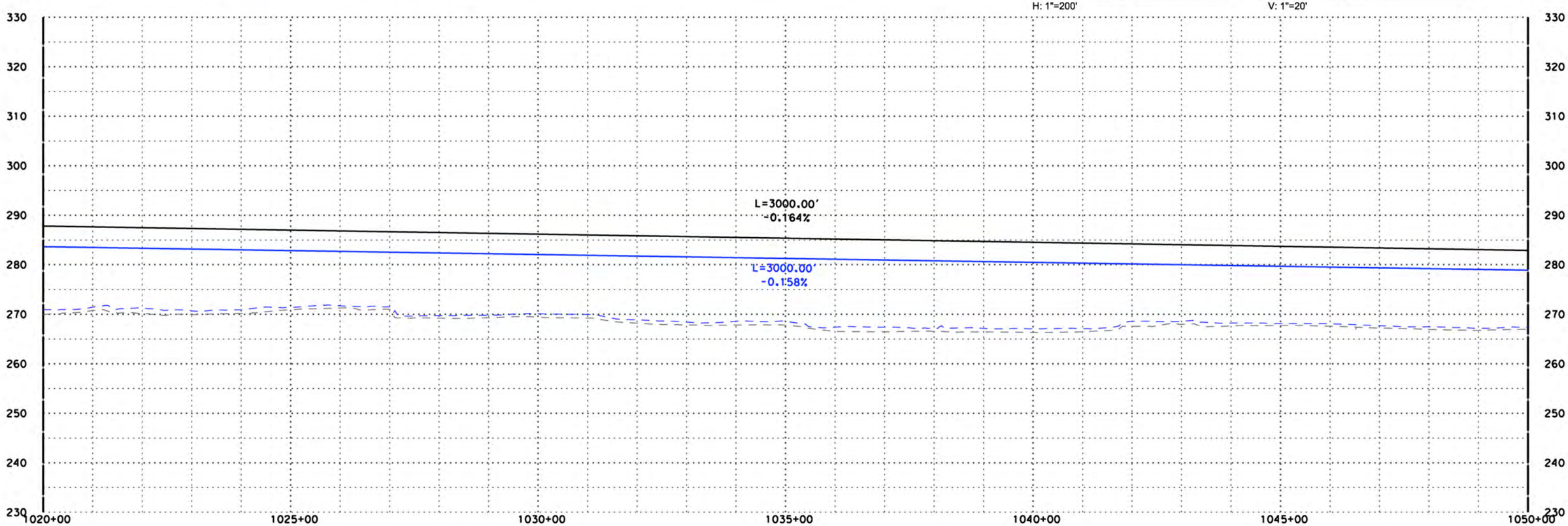


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DFS

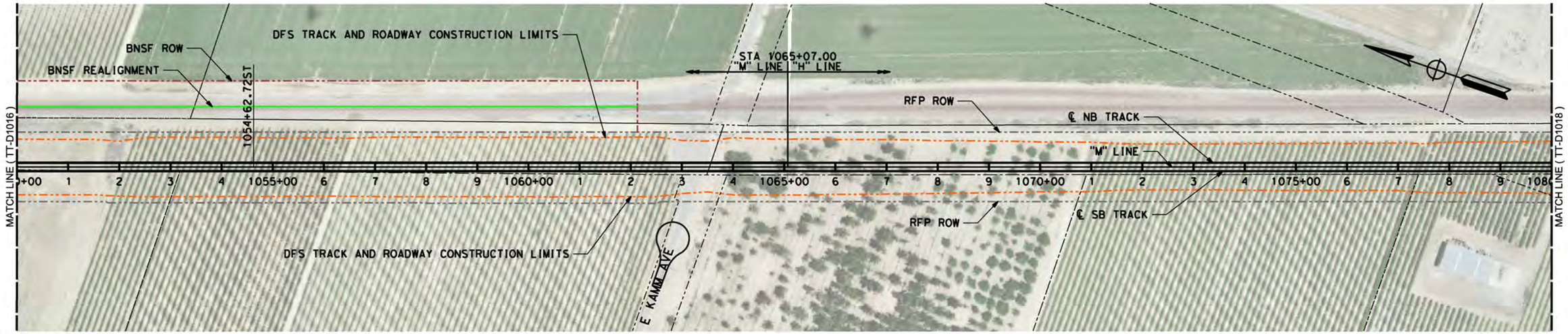
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT M

PLAN AND PROFILE
M 1020+00.00 TO M 1050+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1016
SCALE AS SHOWN
SHEET NO.

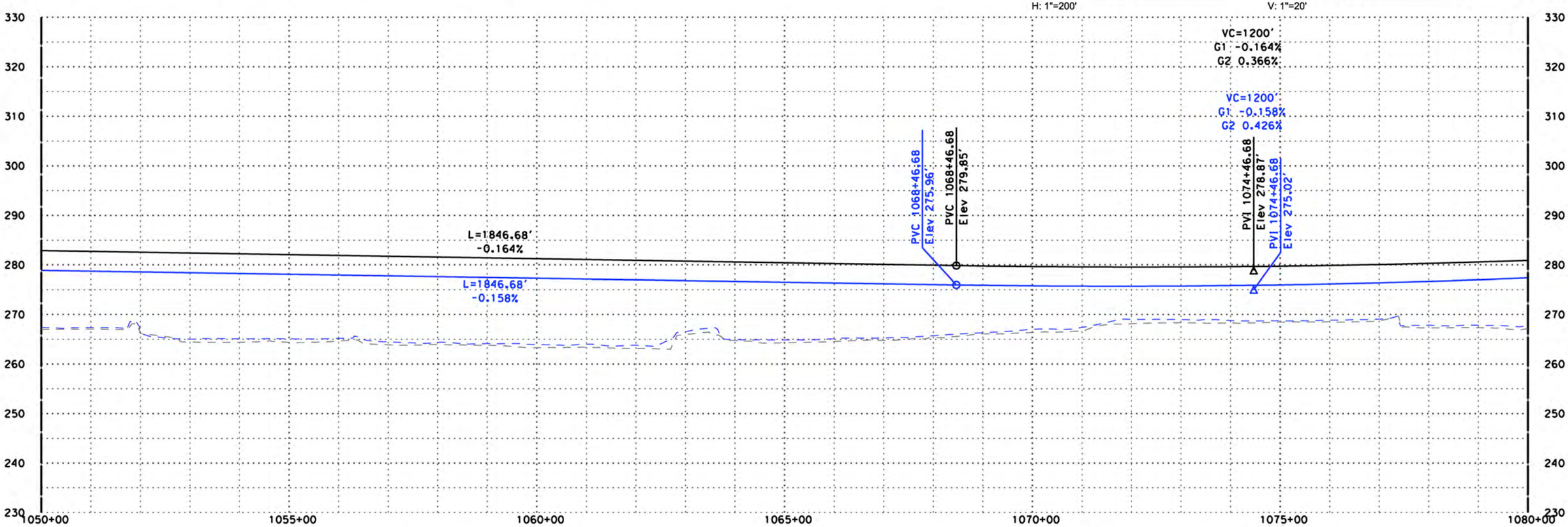
10/14/2014 10:55:19 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG2-M_TT-D1016.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"M" LINE "H" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
M 1050+00.00 TO H 1080+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1017
SCALE AS SHOWN
SHEET NO.

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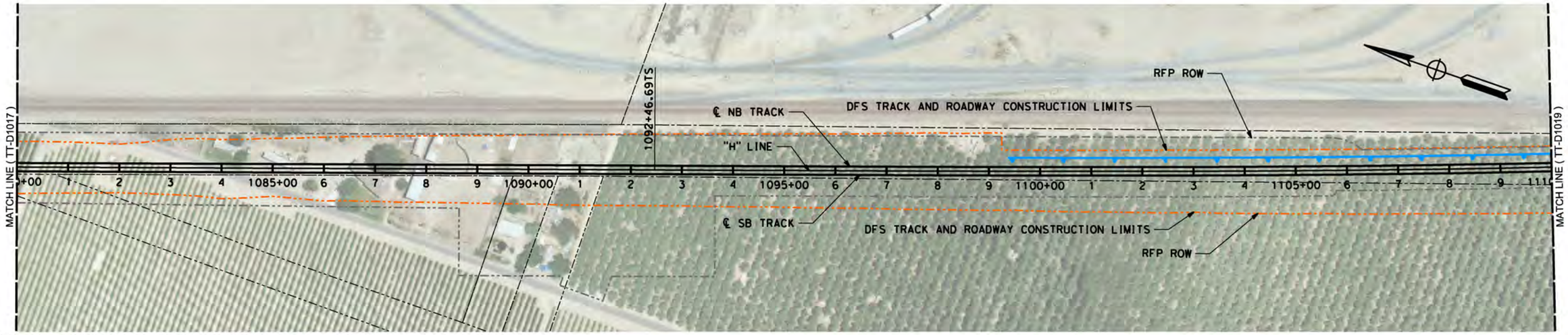
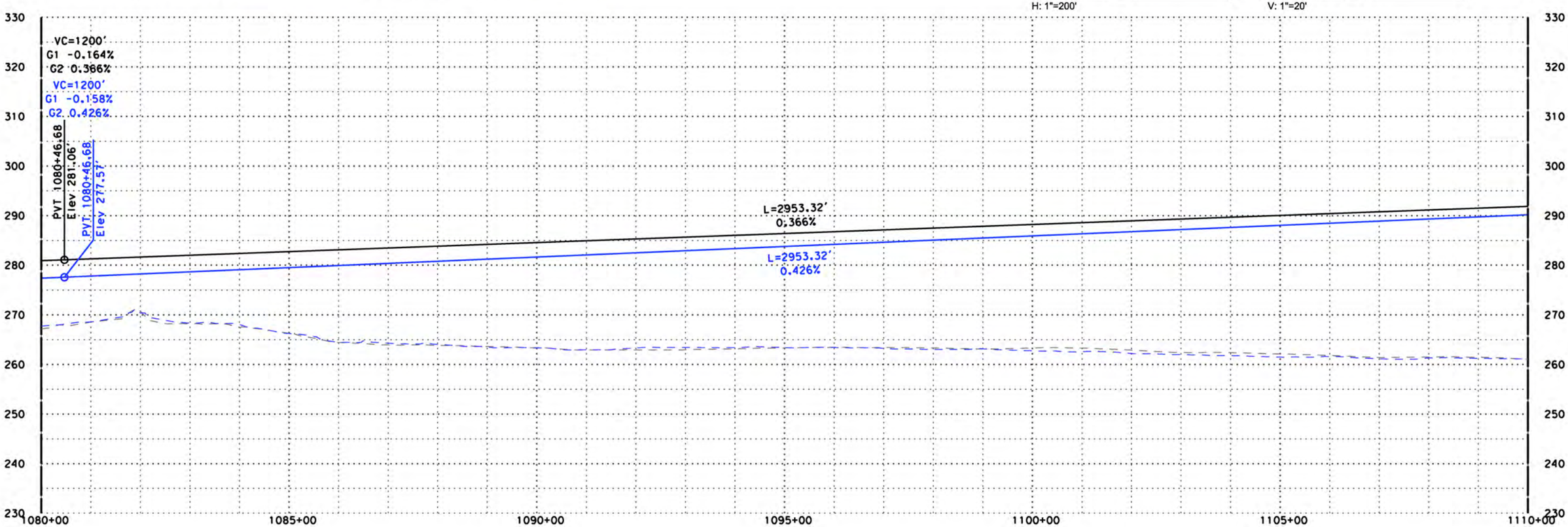


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"H" LINE

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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1080+00.00 TO H 1110+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1018
SCALE	AS SHOWN
SHEET NO.	

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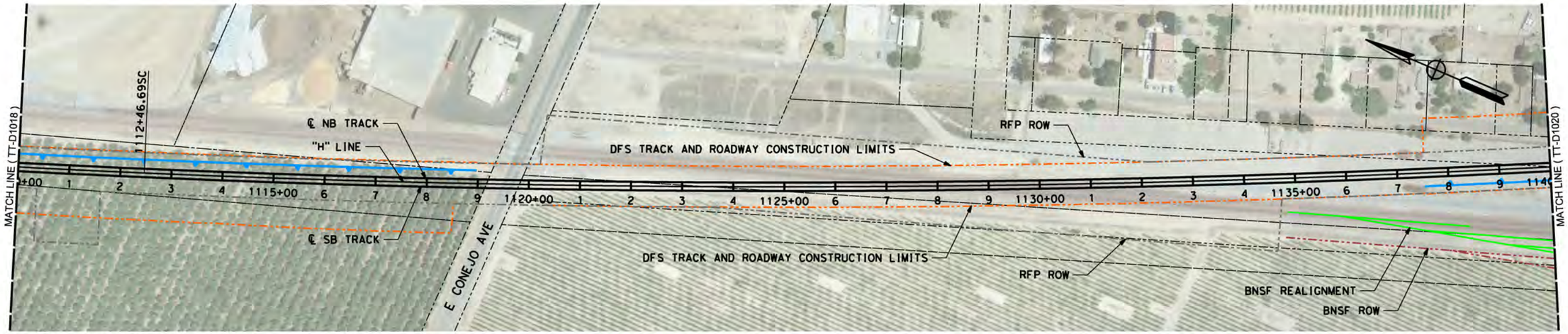
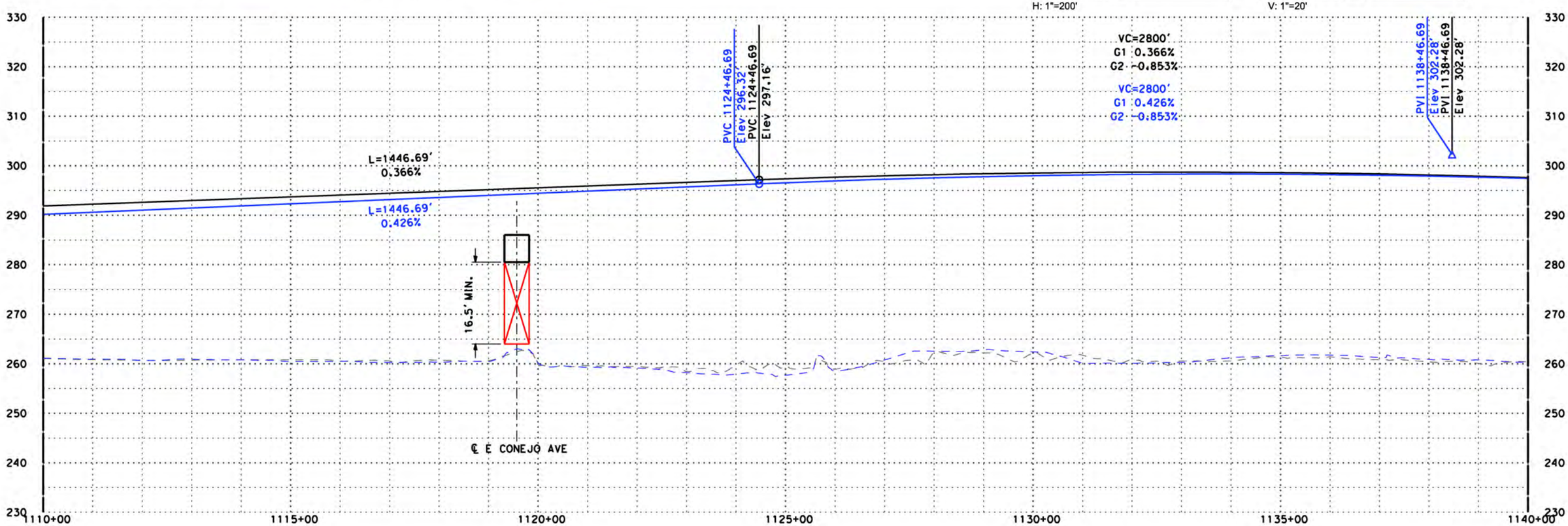


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DATE	10/15/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1110+00.00 TO H 1140+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1019
SCALE	AS SHOWN
SHEET NO.	

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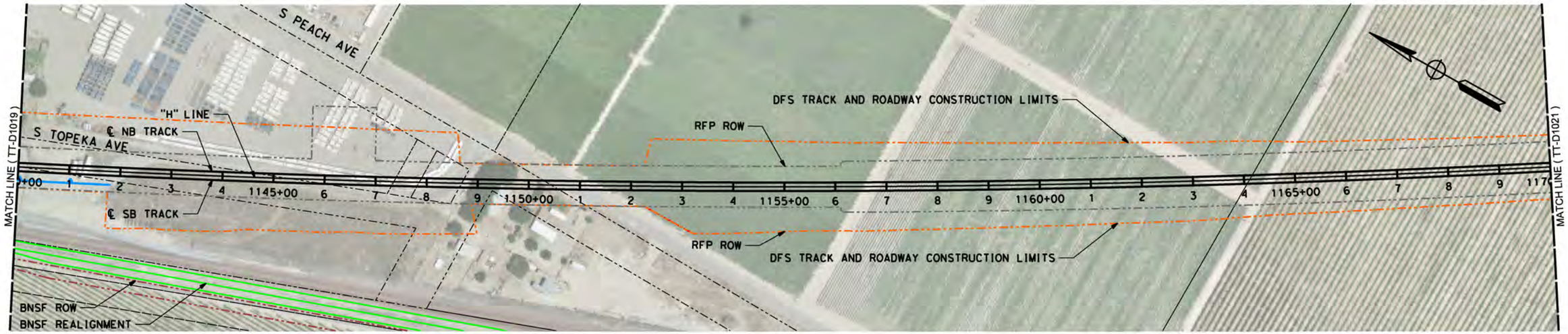
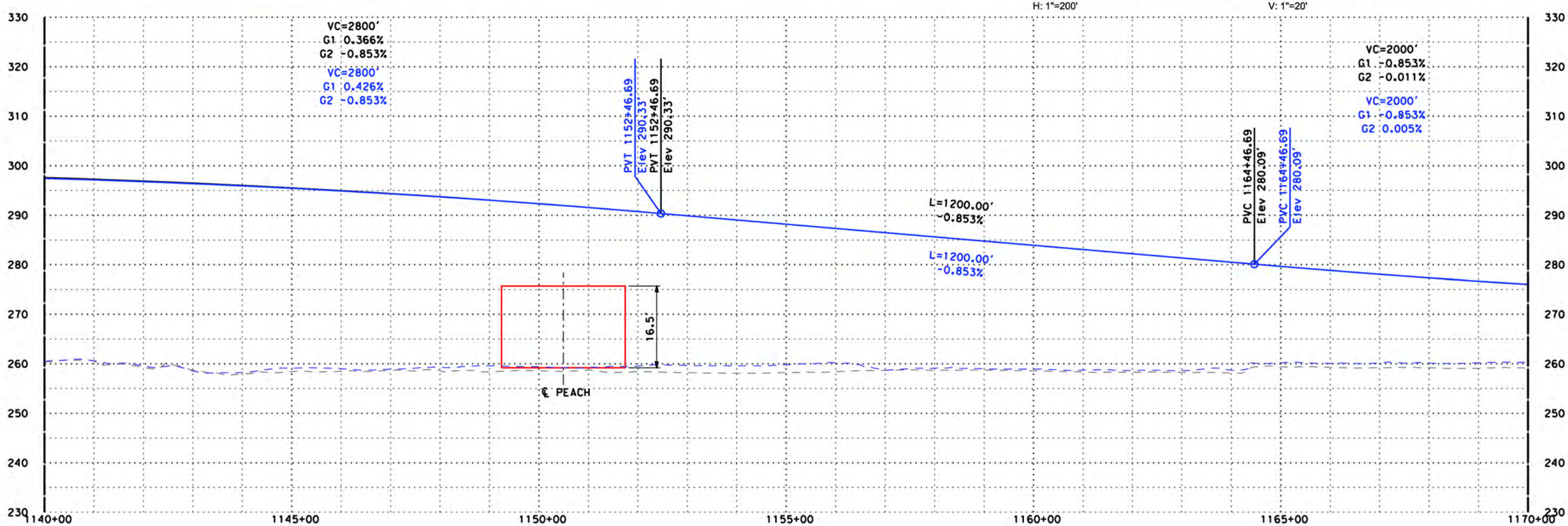


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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IN CHARGE	R. Trevett
DATE	10/15/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1140+00.00 TO H 1170+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1020
SCALE	AS SHOWN
SHEET NO.	

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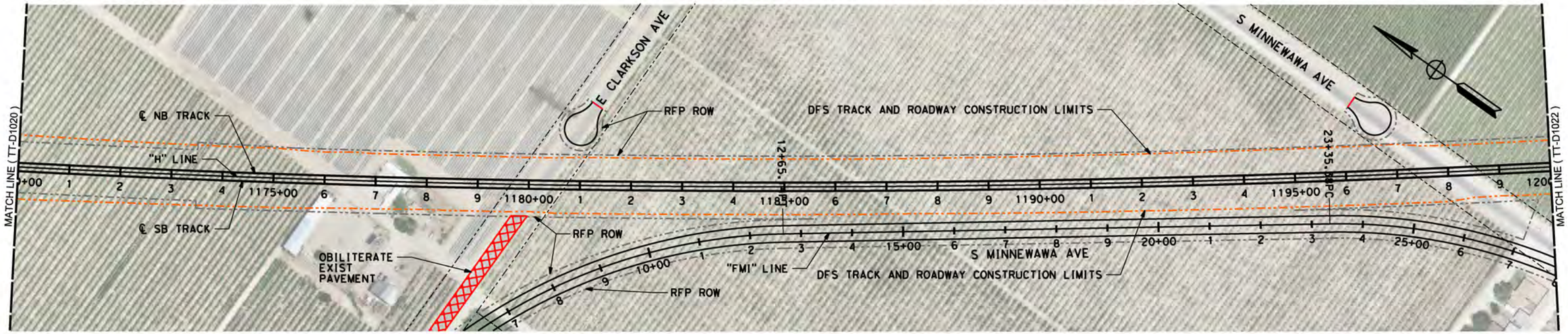
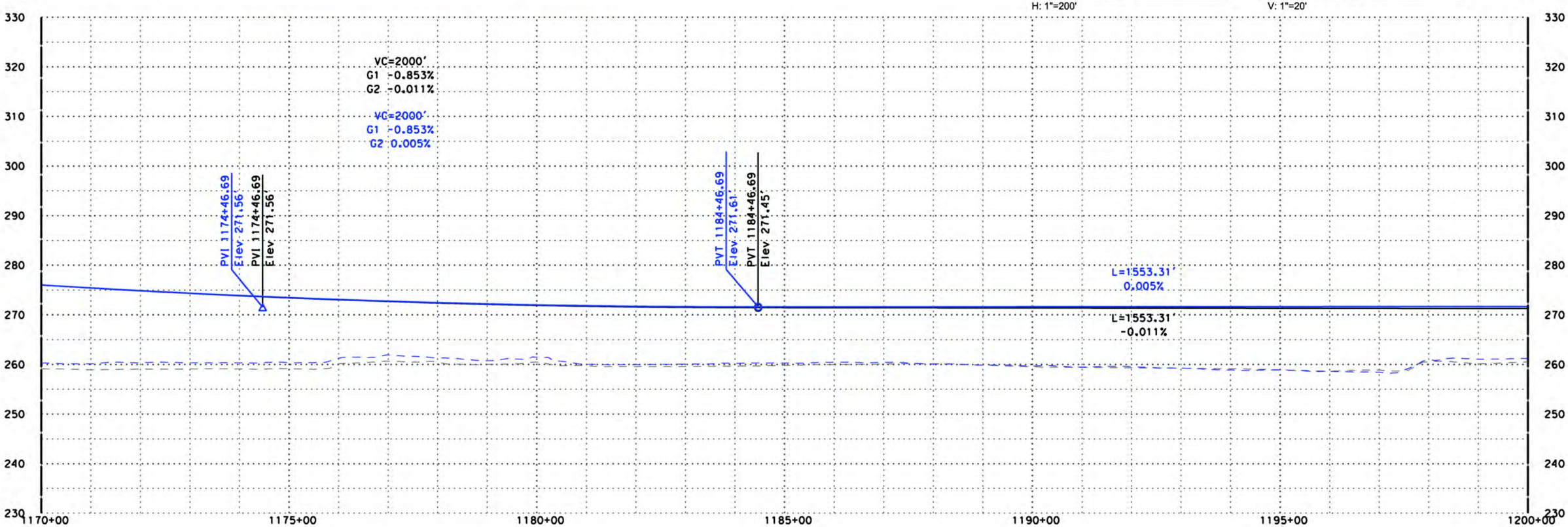


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1170+00.00 TO H 1200+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1021
SCALE AS SHOWN
SHEET NO.

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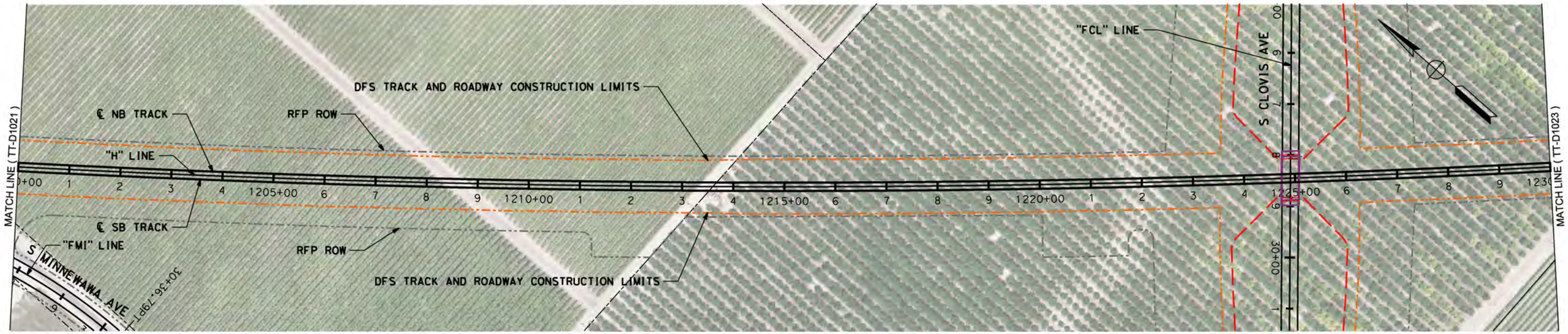
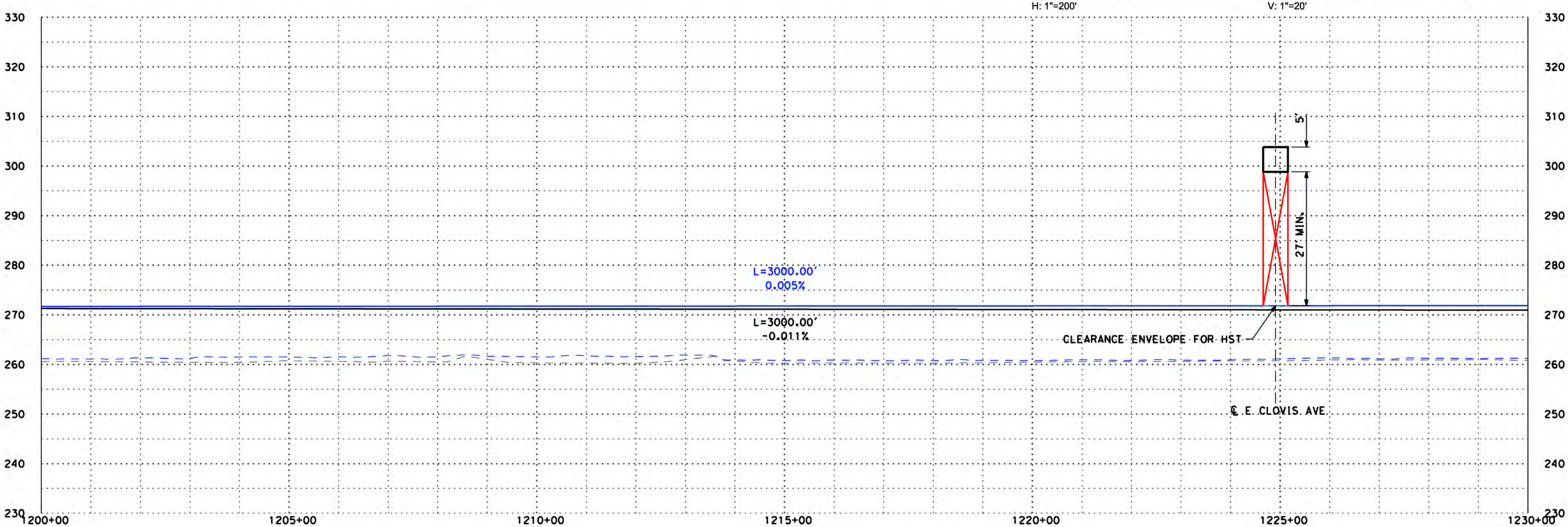


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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CHECKED BY	E. Karam
IN CHARGE	R. Trevett
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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1200+00.00 TO H 1230+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1022
SCALE	AS SHOWN
SHEET NO.	

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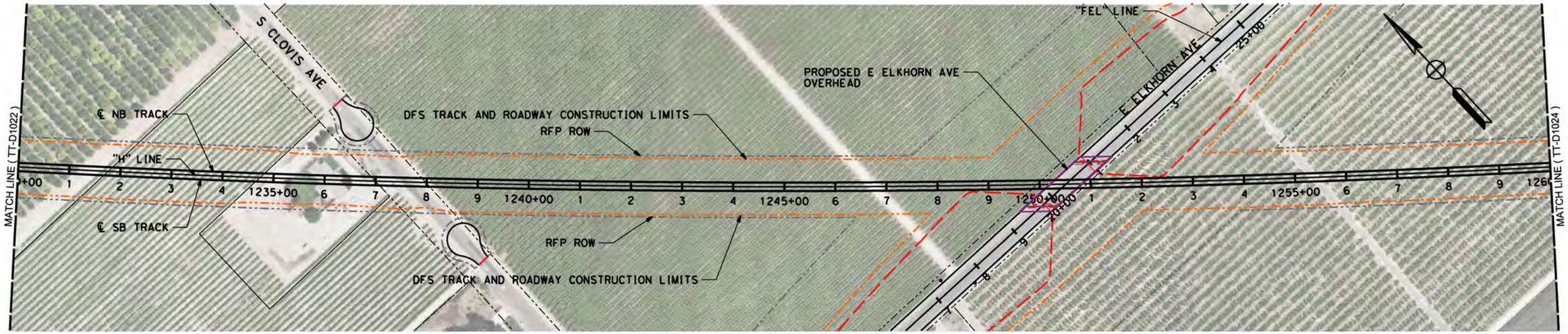
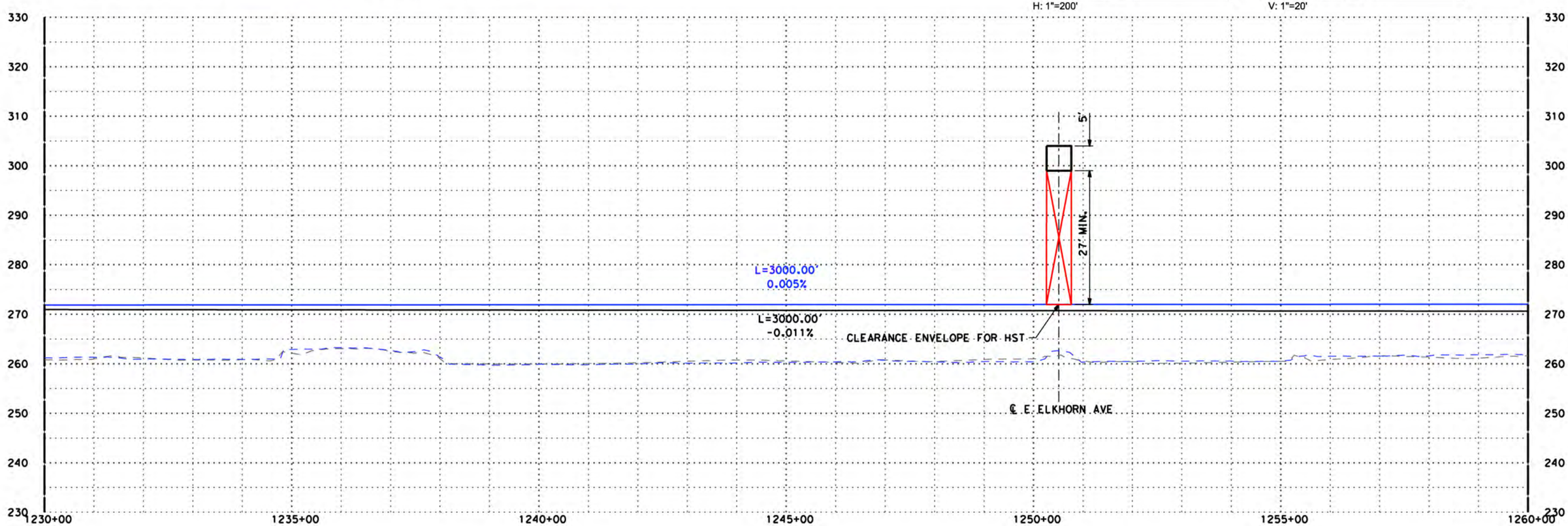


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400)

V: 1"=20' (0, 20, 40)



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DATE	10/15/14

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
M 1230+00.00 TO M 1260+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1023
SCALE	AS SHOWN
SHEET NO.	

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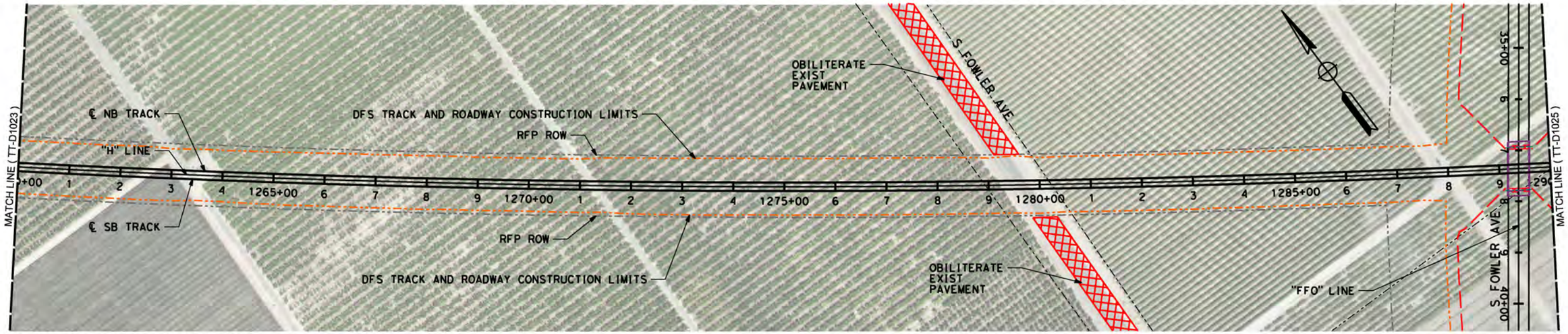
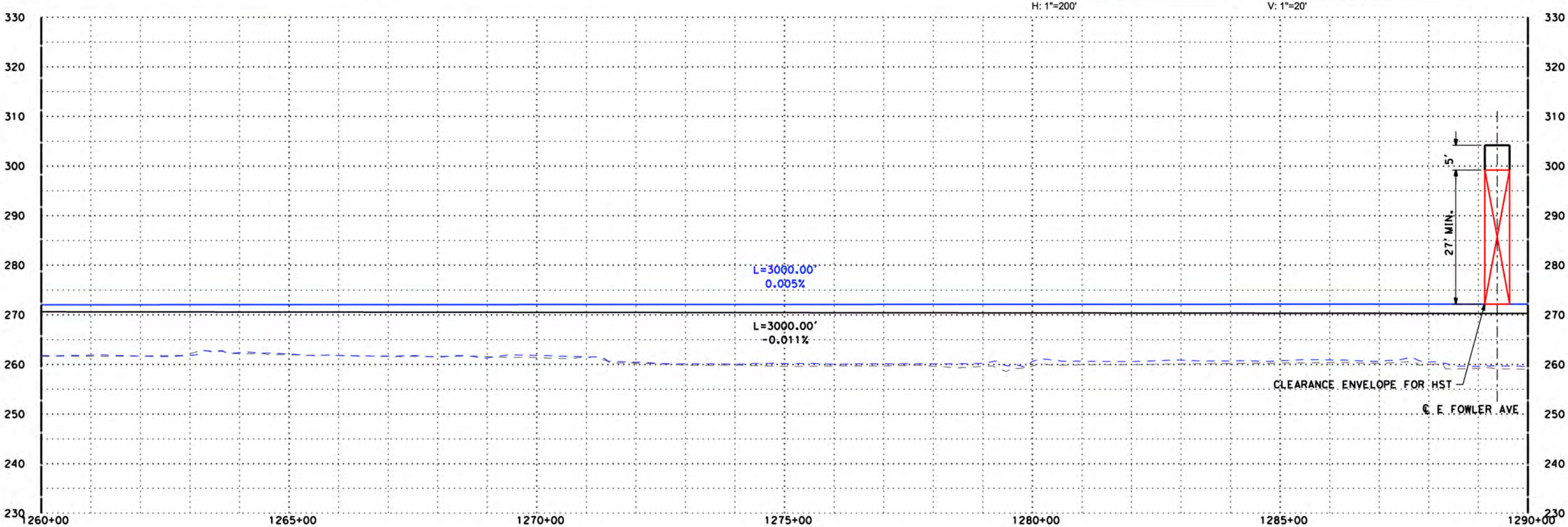


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1260+00.00 TO H 1290+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1024
SCALE	AS SHOWN
SHEET NO.	

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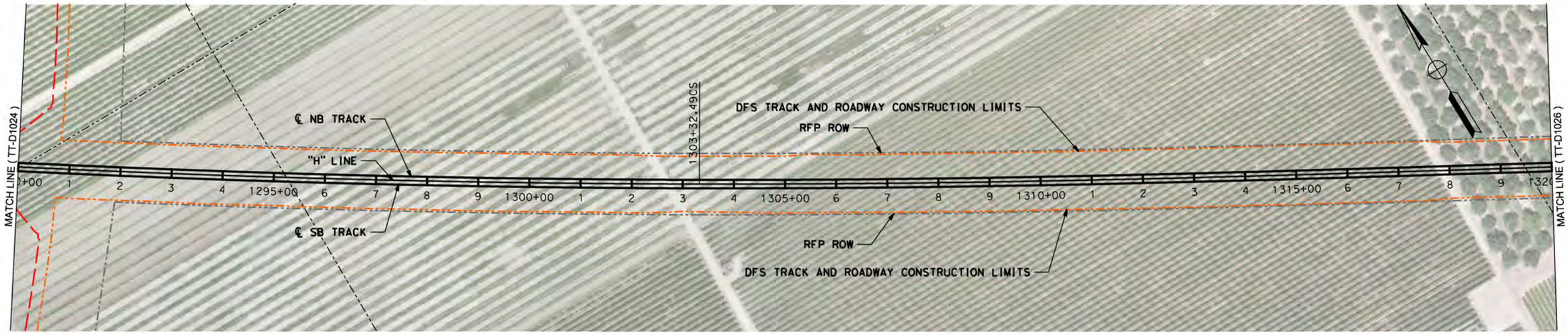
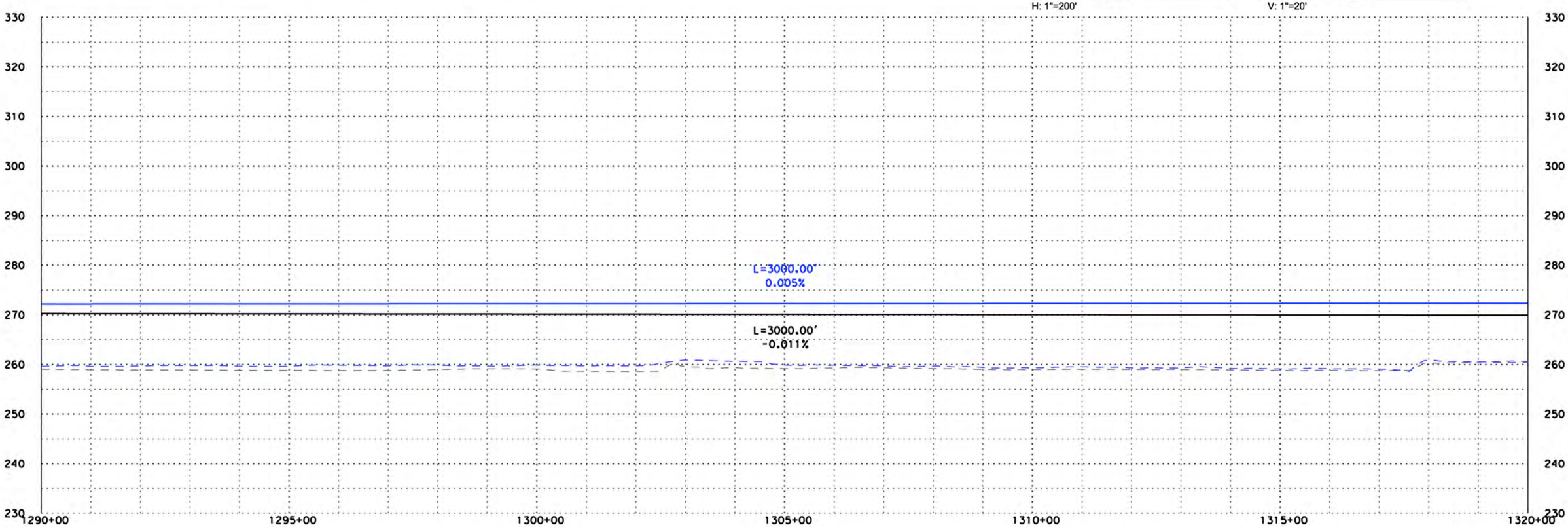


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG - - - - - - - - - - - - - - - - - -
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX) - - - - - - - - - - - - - -

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DATE 10/15/14

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1290+00.00 TO H 1320+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1025
SCALE AS SHOWN
SHEET NO.

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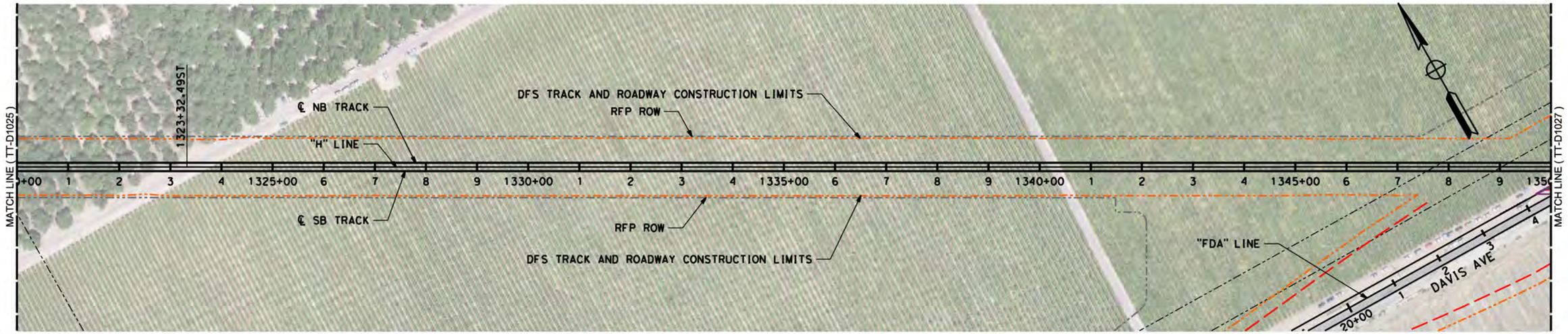
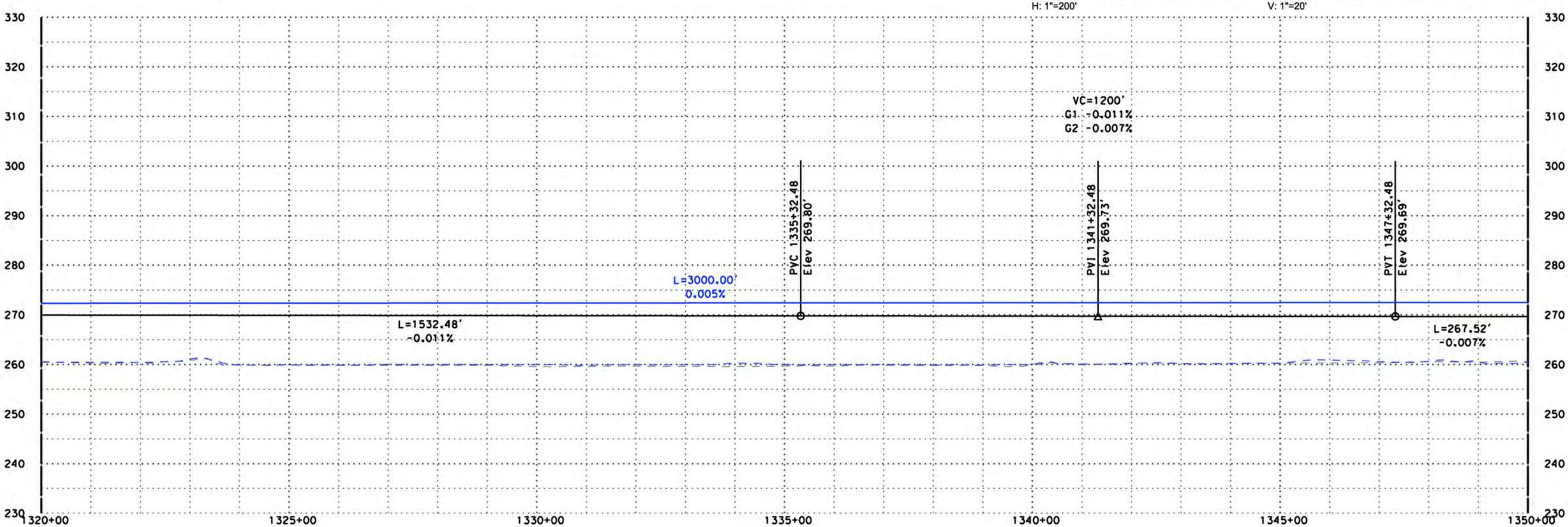


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
3 1320+00.00 TO H 1350+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1026
SCALE	AS SHOWN
SHEET NO.	

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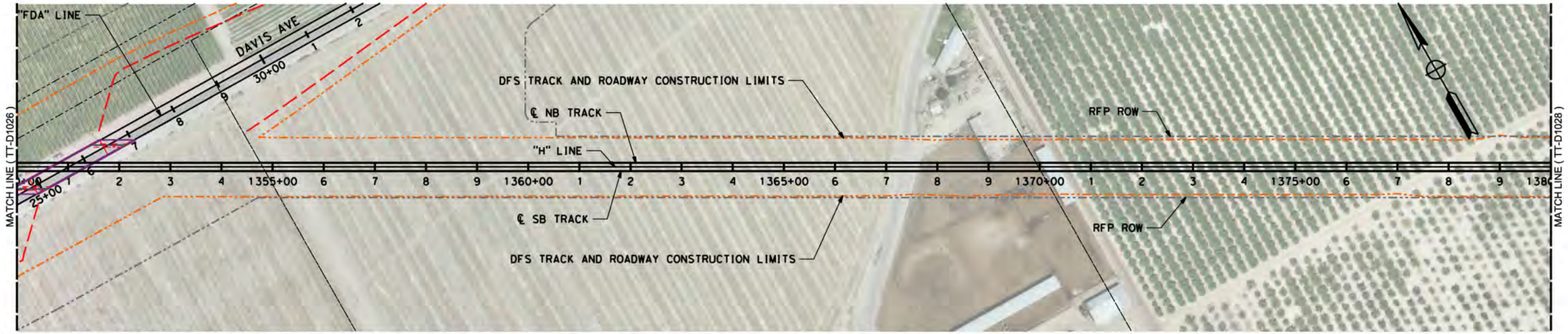
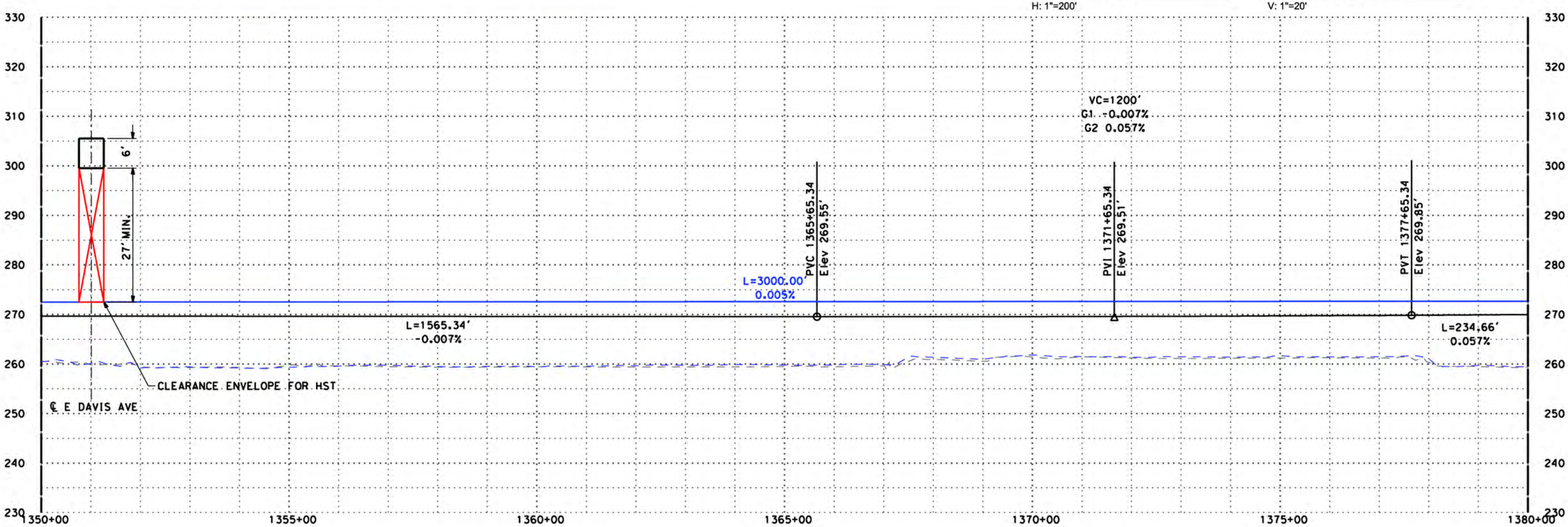


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DFS

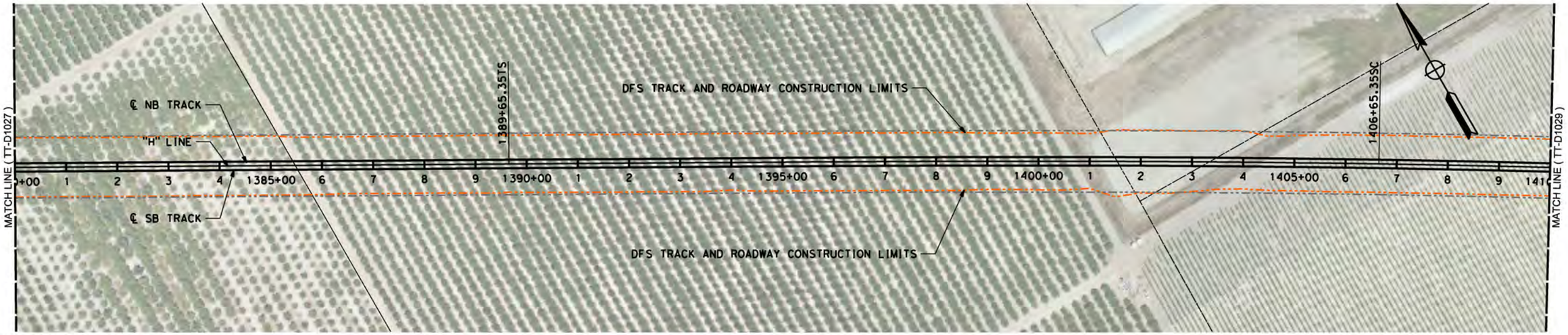
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1350+00.00 TO H 1380+00.00

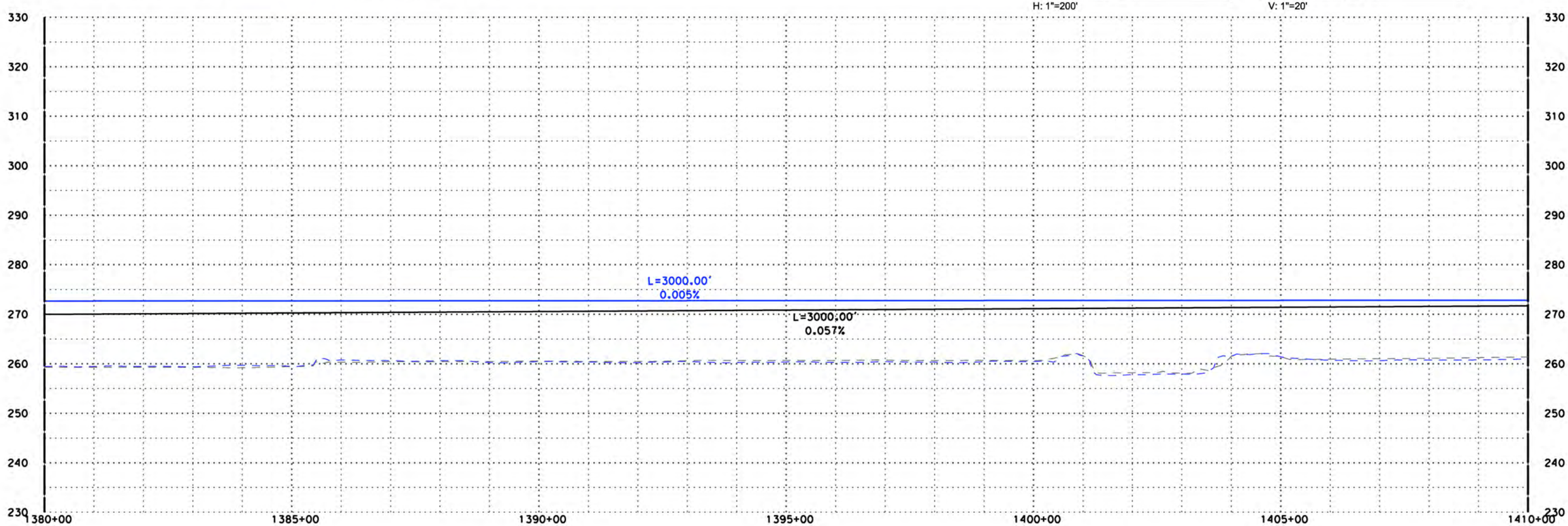
CONTRACT NO. HSR 06-0003
DRAWING NO. D1027
SCALE AS SHOWN
SHEET NO.

10/14/2014 10:54 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG3-H_TT-D1027.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"H" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

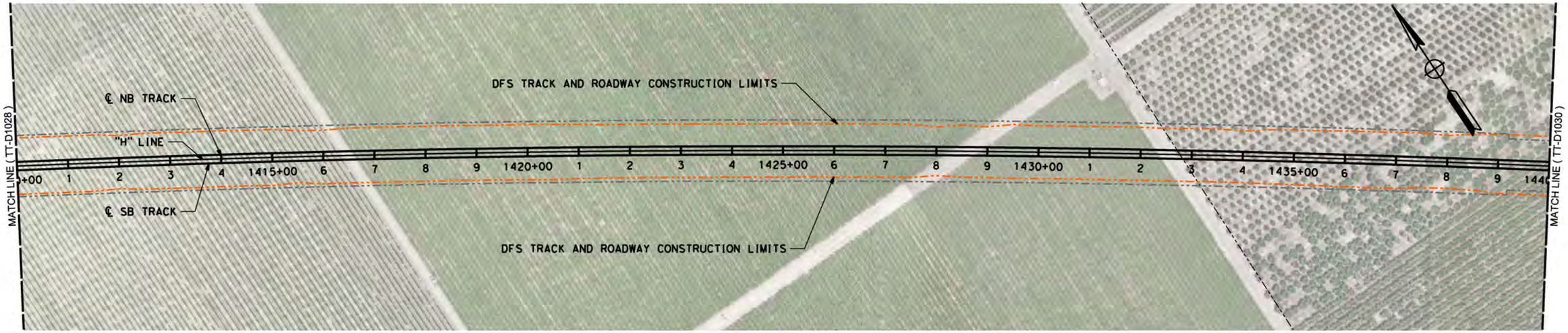
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1380+00.00 TO H 1410+00.00

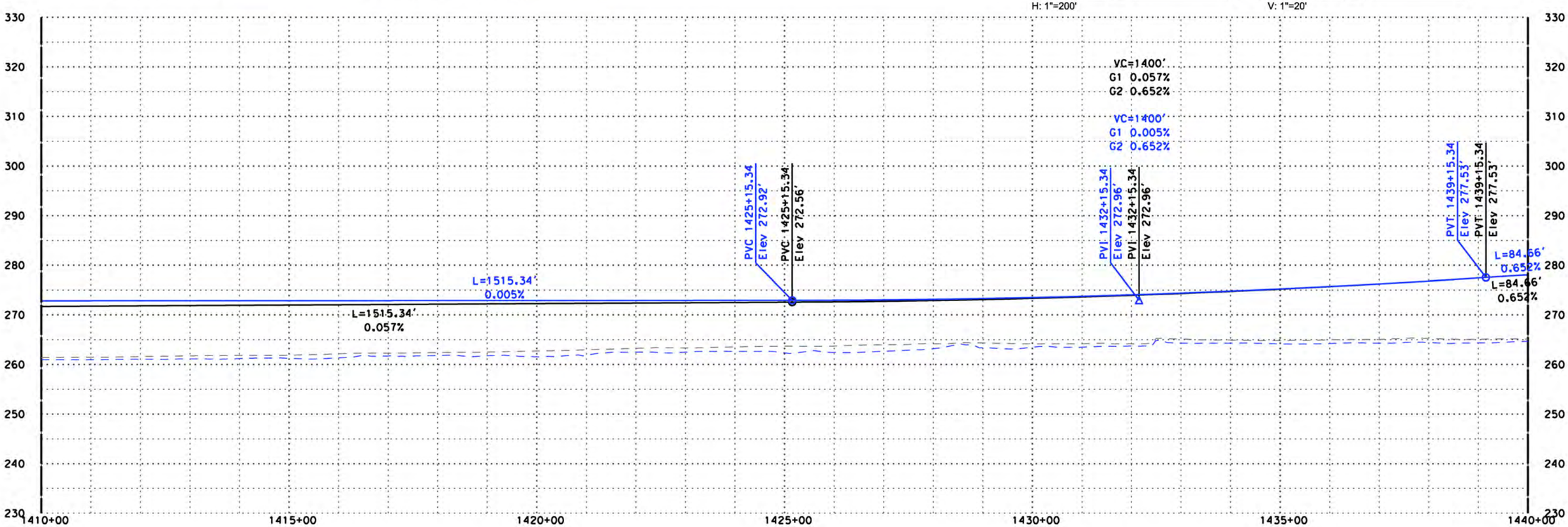
CONTRACT NO. HSR 06-0003
DRAWING NO. D1028
SCALE AS SHOWN
SHEET NO.

10/14/2014 10:11:42 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\oai\partingtonsa\d0168034\FB-SEG3-H_TT-D1028.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
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NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1410+00.00 TO H 1440+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1029
SCALE	AS SHOWN
SHEET NO.	

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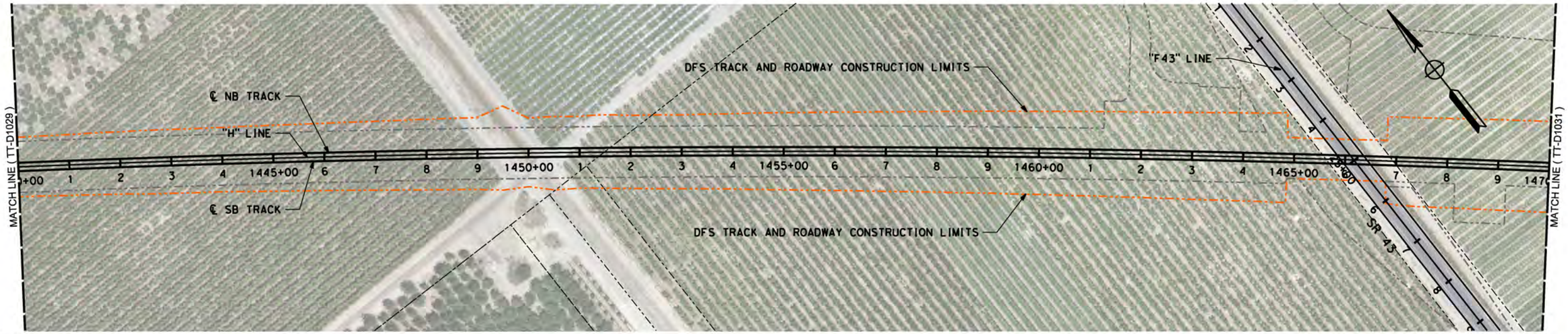
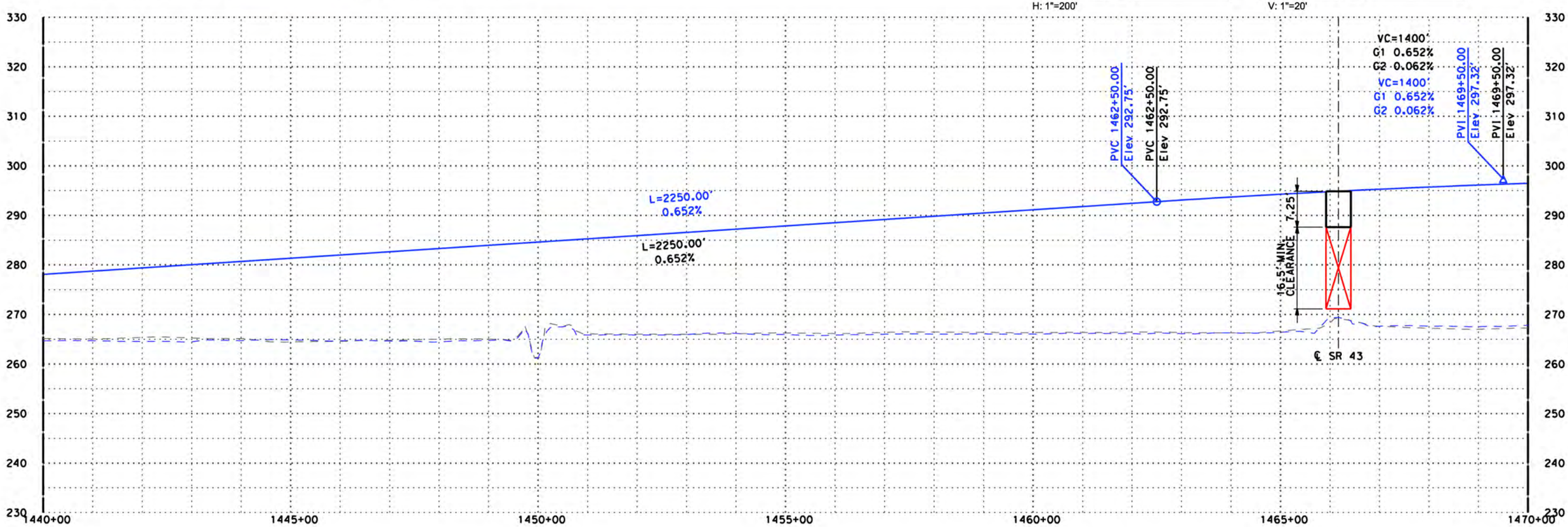


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1440+00.00 TO H 1470+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1030
SCALE AS SHOWN
SHEET NO.

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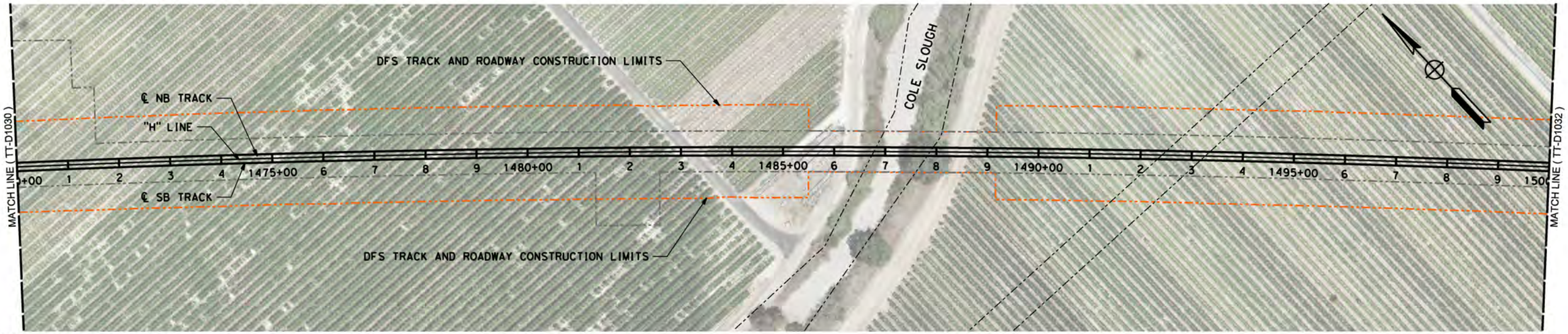
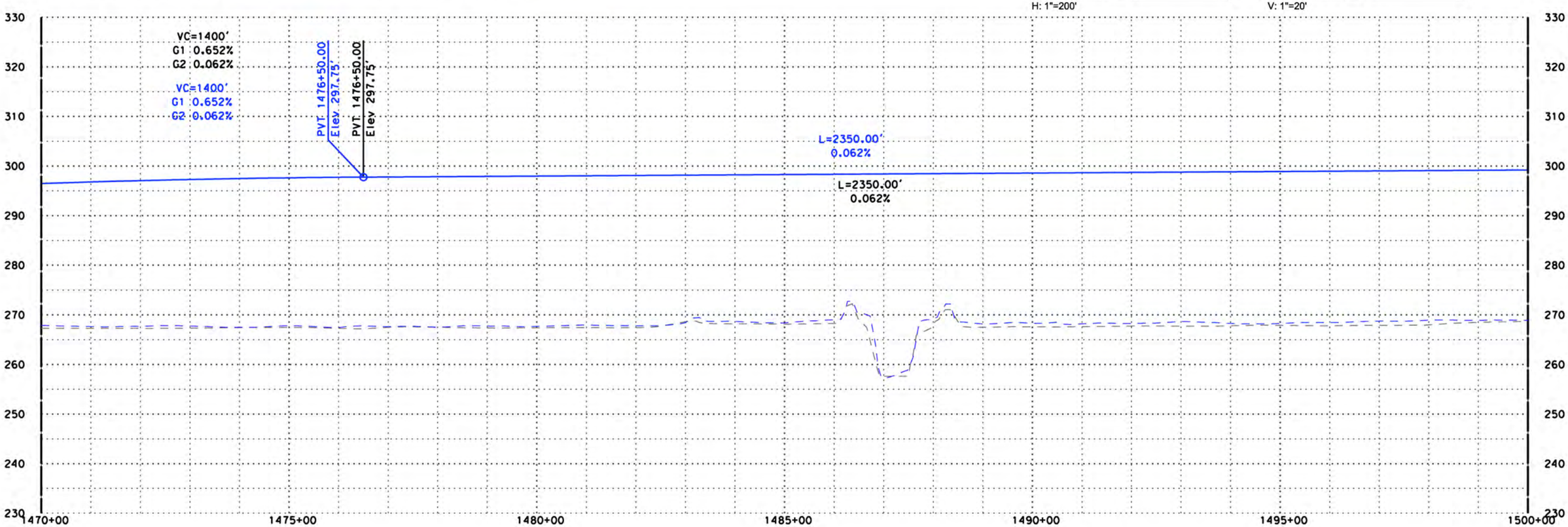


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1470+00.00 TO H 1500+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1031
SCALE AS SHOWN
SHEET NO.

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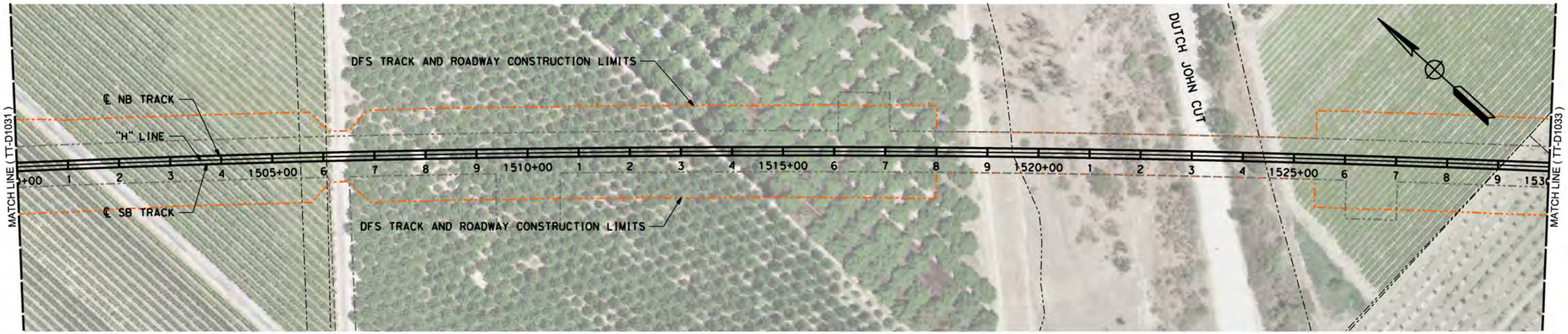
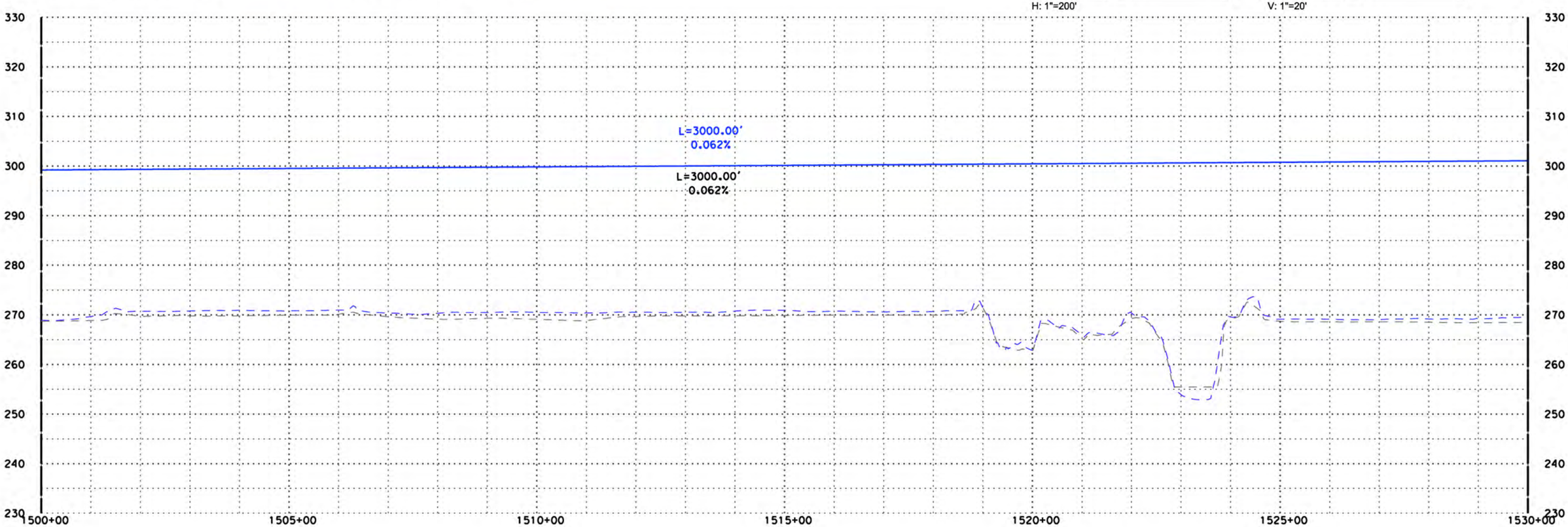


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1500+00.00 TO H 1530+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1032
SCALE AS SHOWN
SHEET NO.

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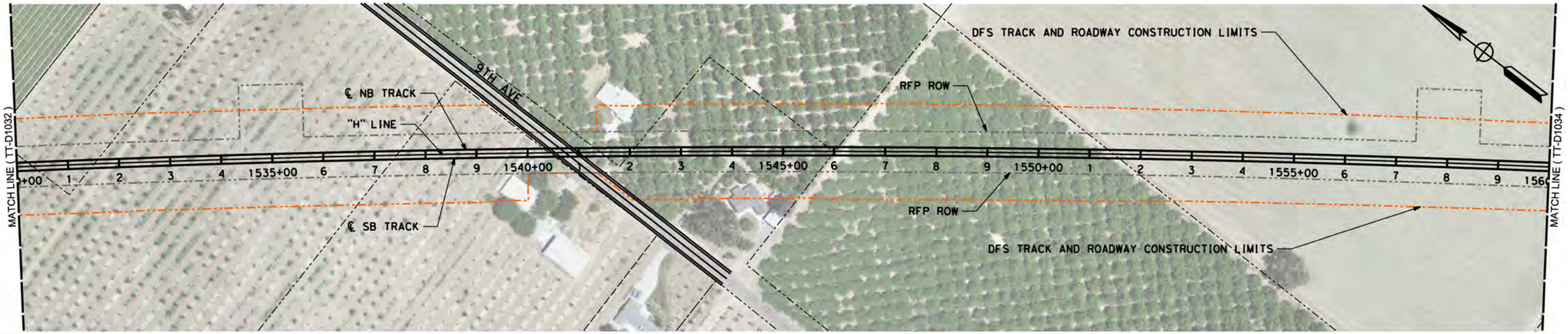
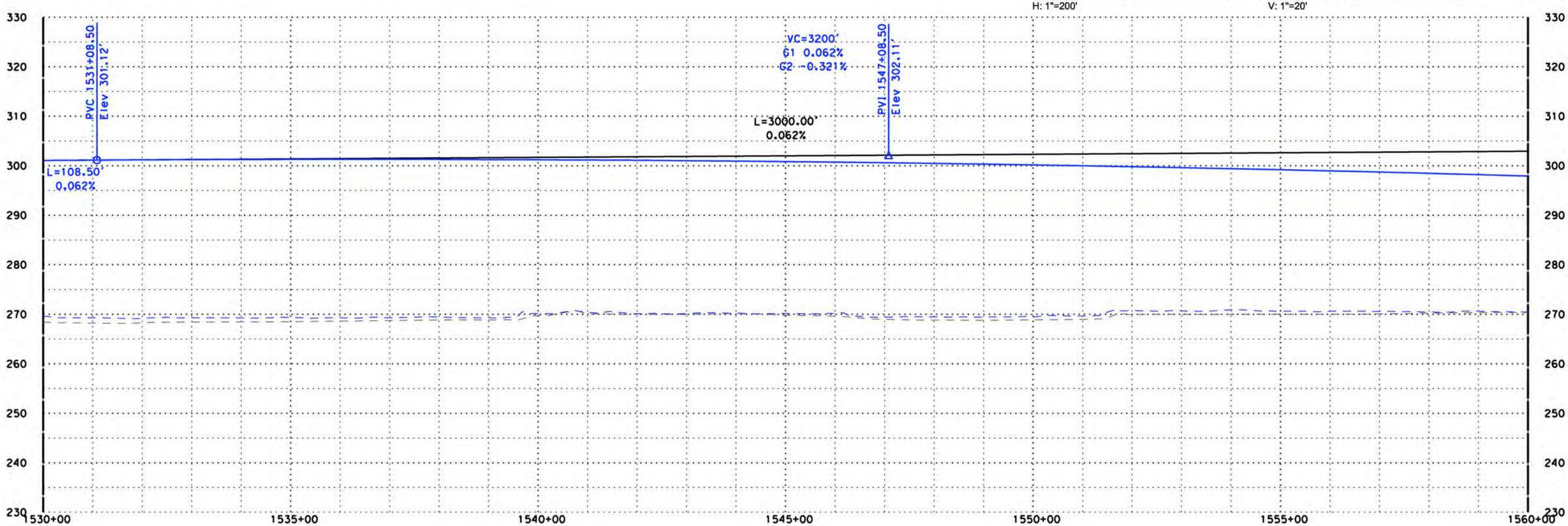


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1530+00.00 TO H 1560+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1033
SCALE	AS SHOWN
SHEET NO.	

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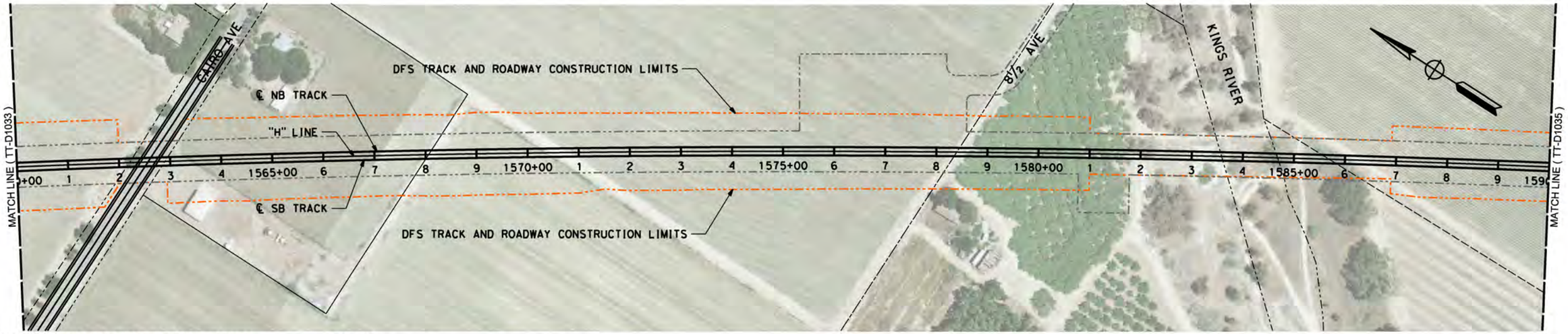
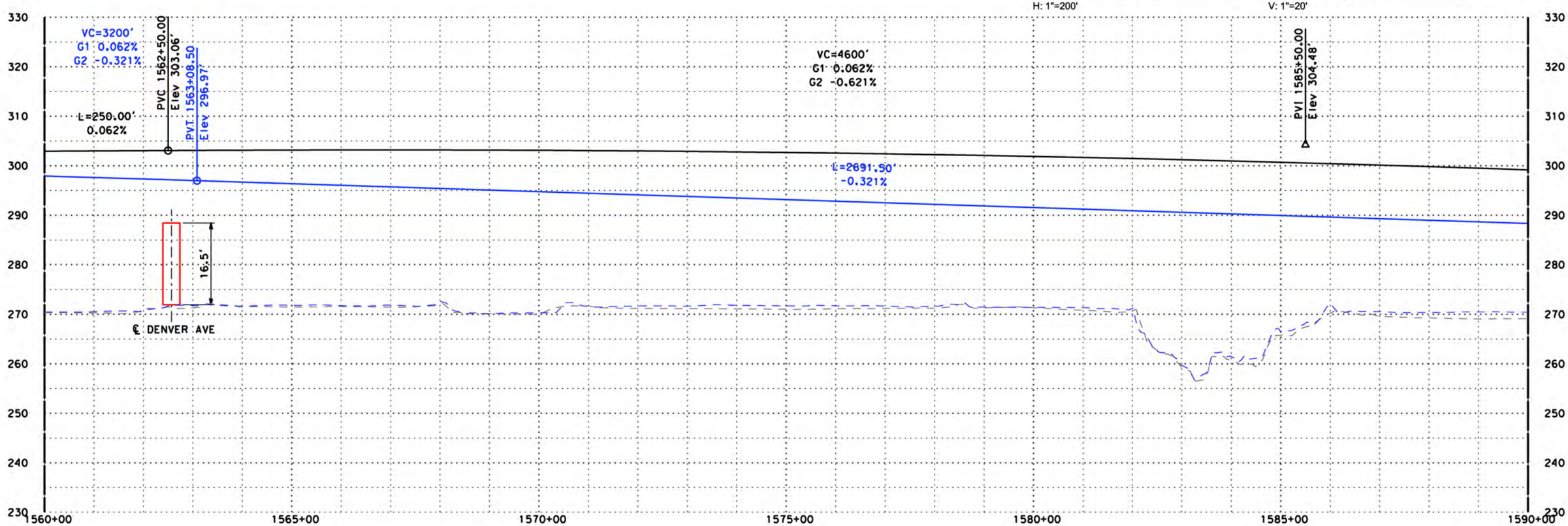


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
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NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1560+00.00 TO H 1590+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1034
SCALE	AS SHOWN
SHEET NO.	

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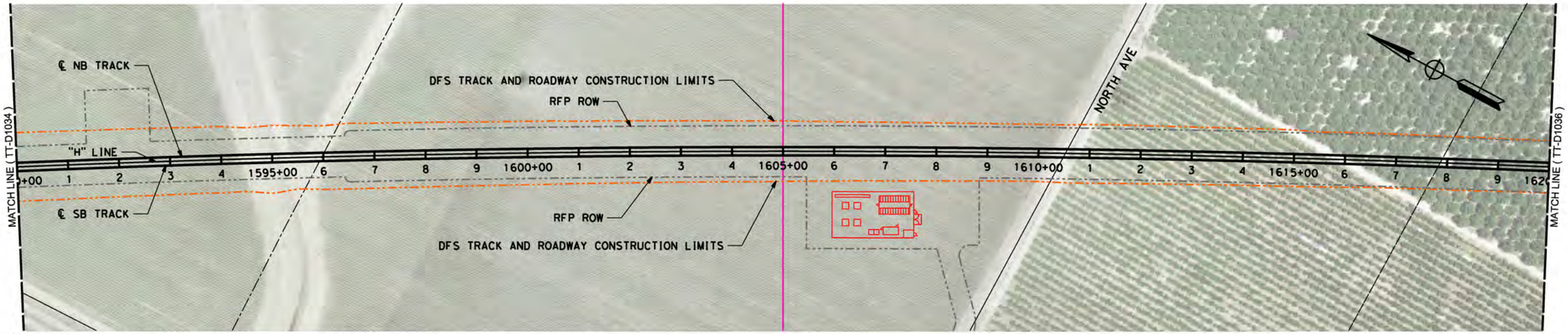
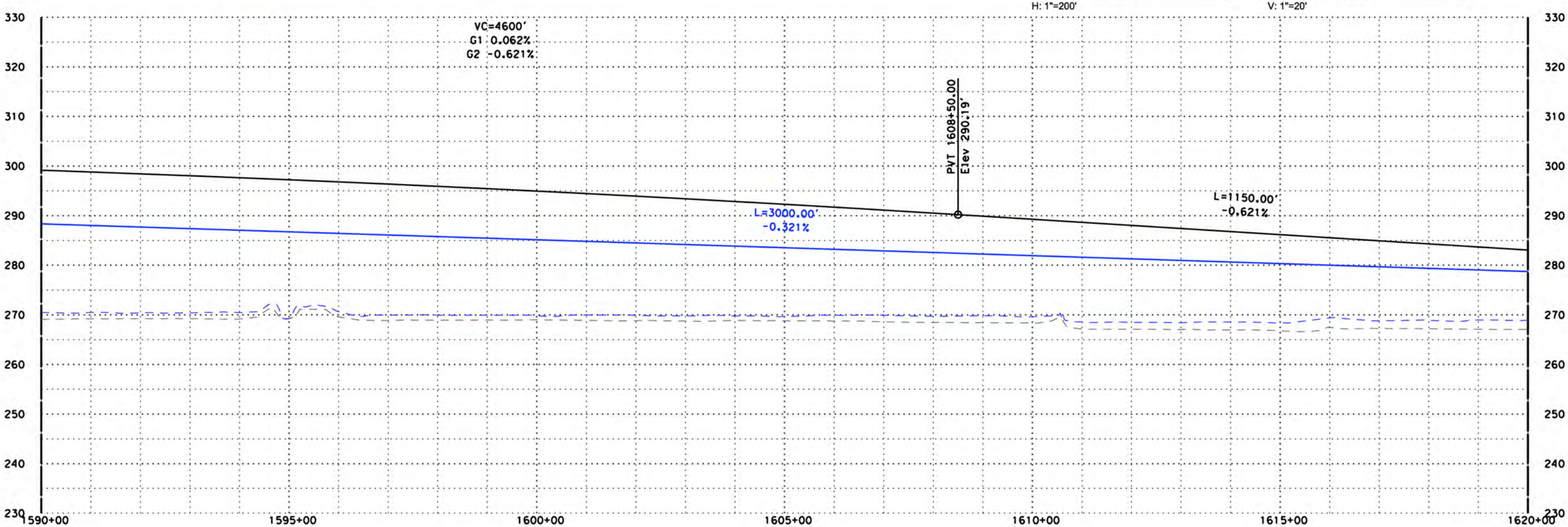


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1590+00.00 TO H 1620+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1035
SCALE AS SHOWN
SHEET NO.

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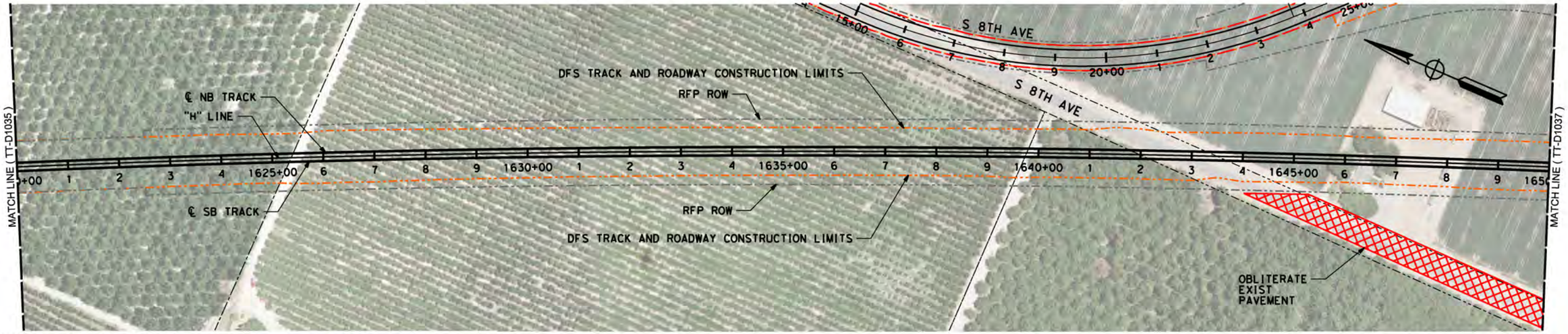
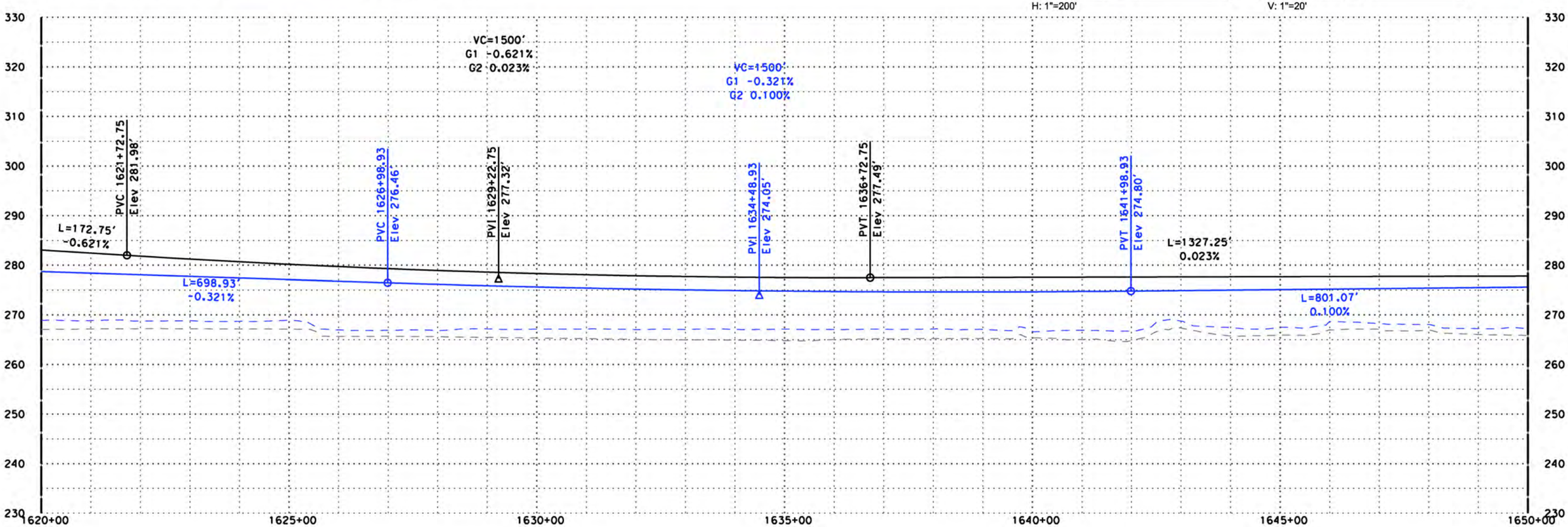


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

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DFS

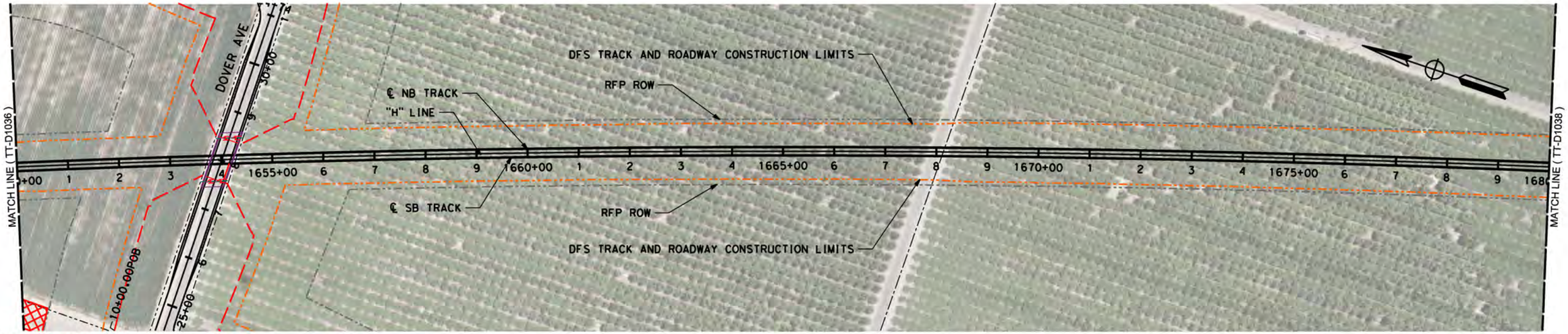
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1620+00.00 TO H 1650+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1036
SCALE	AS SHOWN
SHEET NO.	

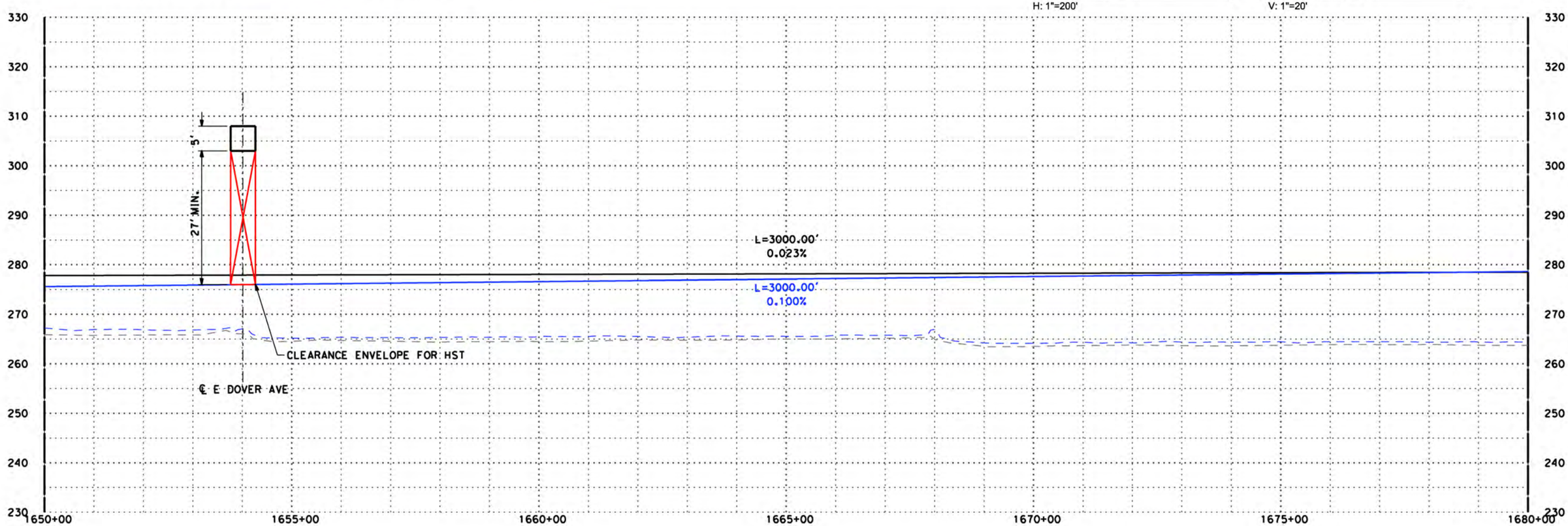
10/14/2014 10:31 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG3-H_TT-D1036.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DATE 10/15/14

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DFS

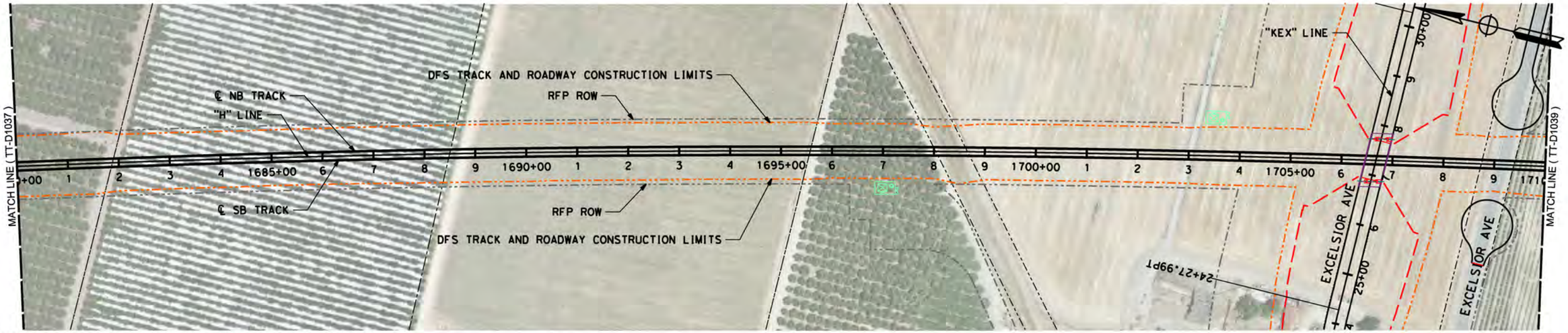
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1650+00.00 TO H 1680+00.00

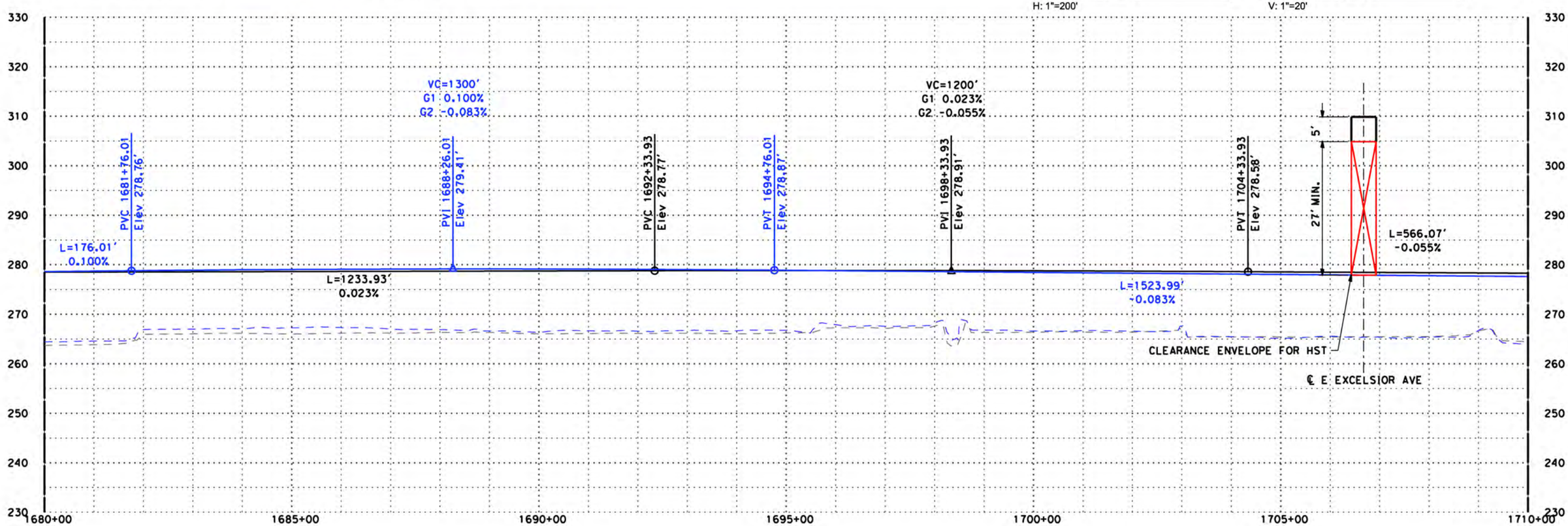
CONTRACT NO. HSR 06-0003
DRAWING NO. D1037
SCALE AS SHOWN
SHEET NO.

10/14/2014 10:19:16 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG3-H_TT-D1037.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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IN CHARGE	R. Trevett
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RECORD SET 15% DESIGN SUBMISSION
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NOT FOR CONSTRUCTION

DFS

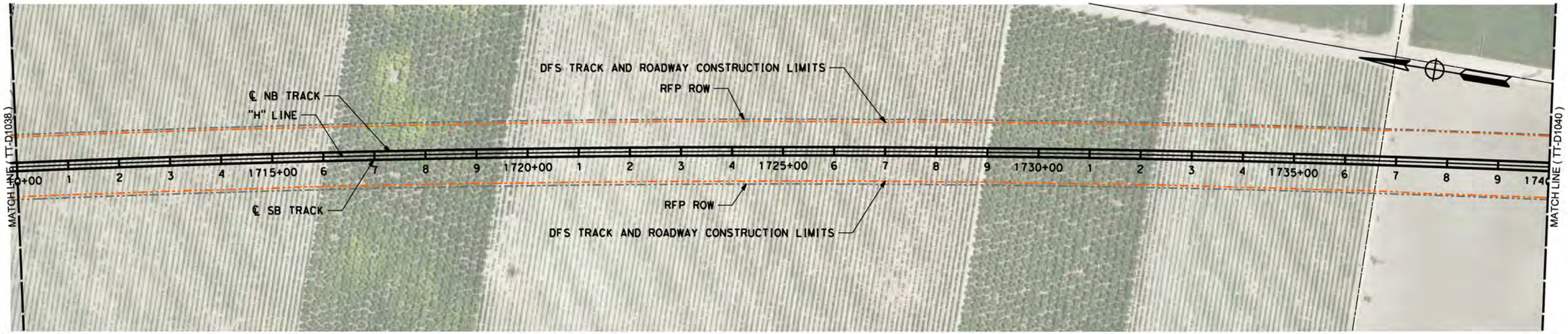
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1680+00.00 TO H 1710+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1038
SCALE	AS SHOWN
SHEET NO.	

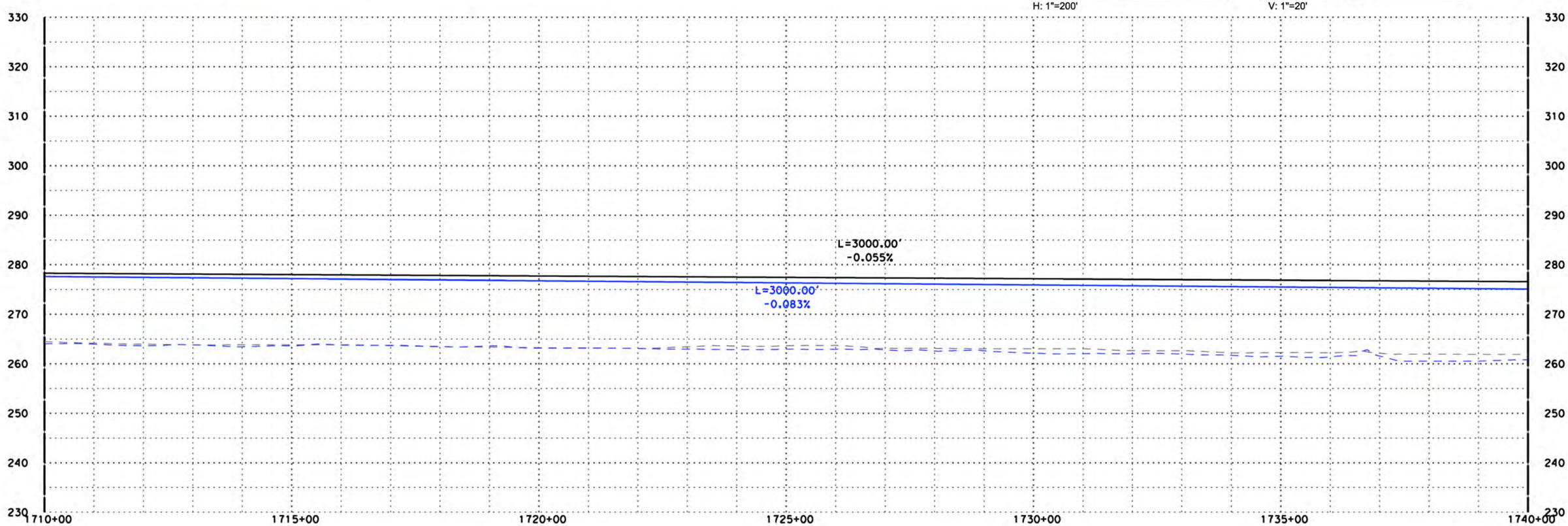
10/14/2014 10:20:00 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\noi\partingtonsa\d0168034\FB-SEG3-H_TT-D1038.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"H" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1710+00.00 TO H 1740+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1039
SCALE AS SHOWN
SHEET NO.

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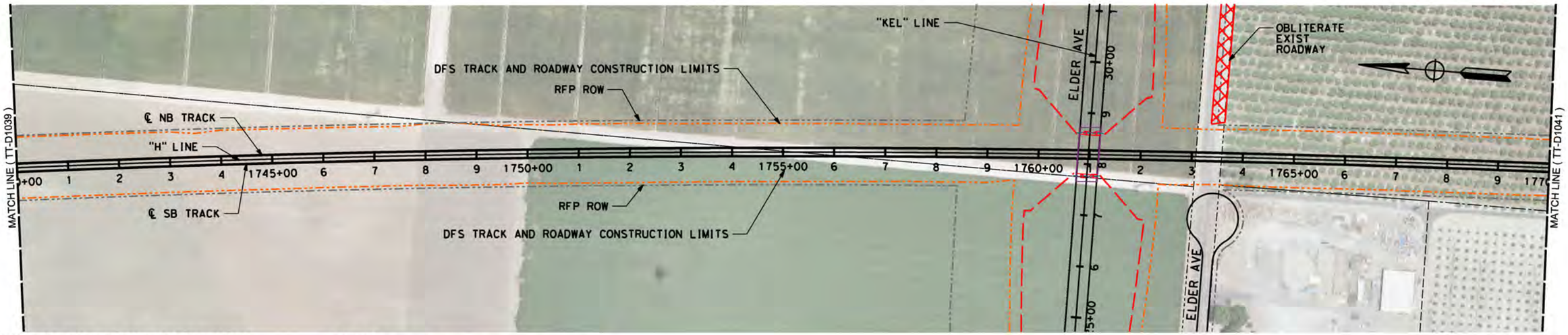
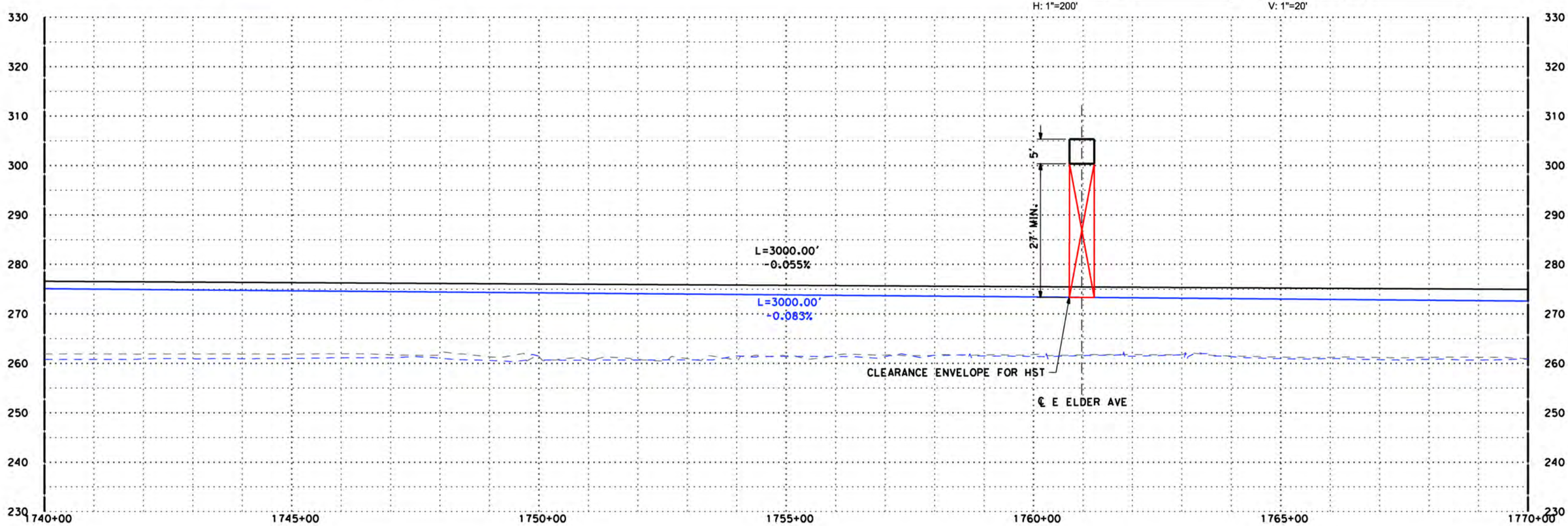


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 1740+00.00 TO H 1770+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1040
SCALE AS SHOWN
SHEET NO.

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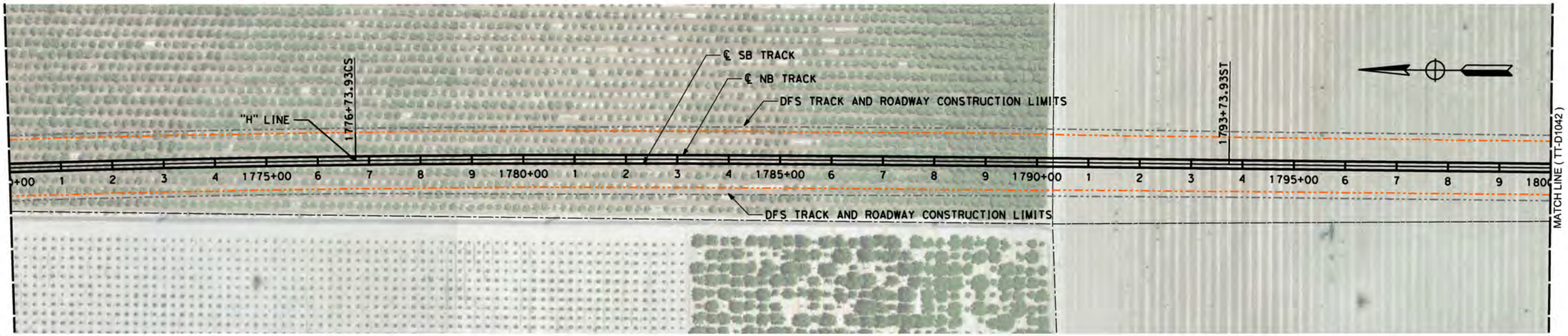
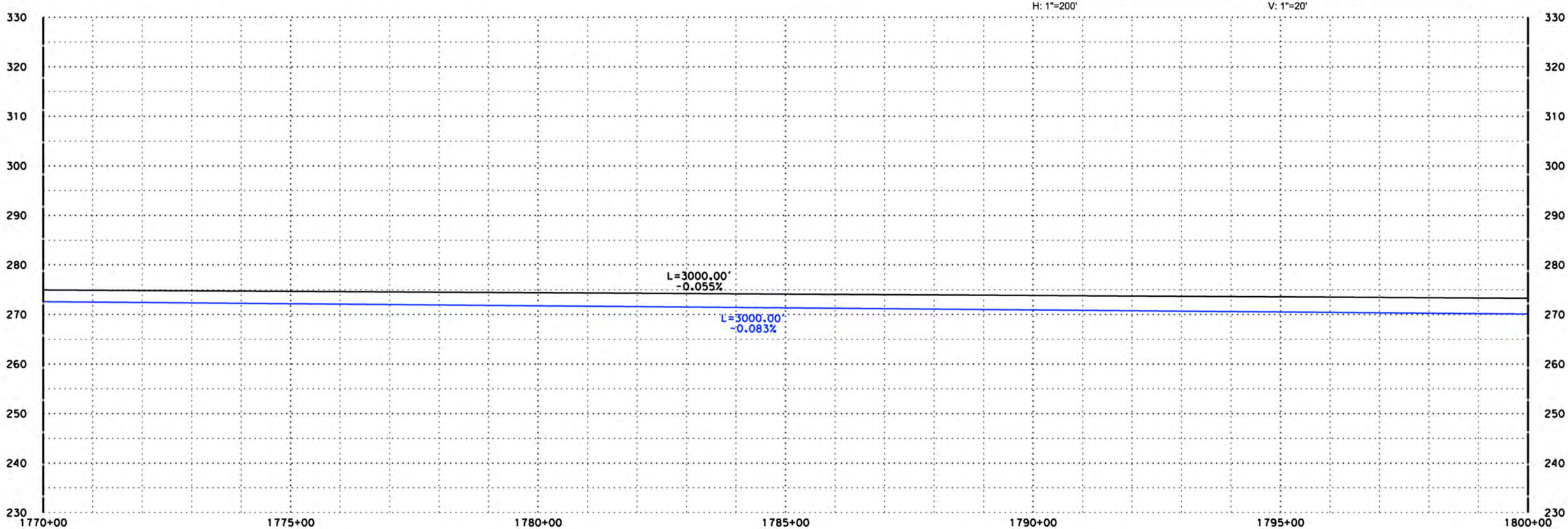


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DESIGNED BY P. Barney
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
PLAN AND PROFILE
H 1770+00.00 TO H 1800+00.00

ATC 17

CONTRACT NO. HSR 06-0003
DRAWING NO. D1041
SCALE AS SHOWN
SHEET NO.

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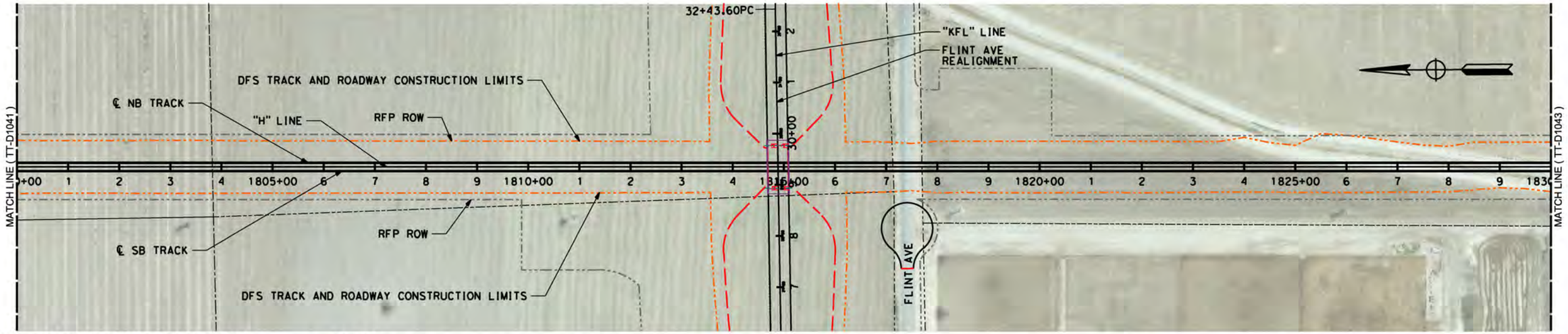
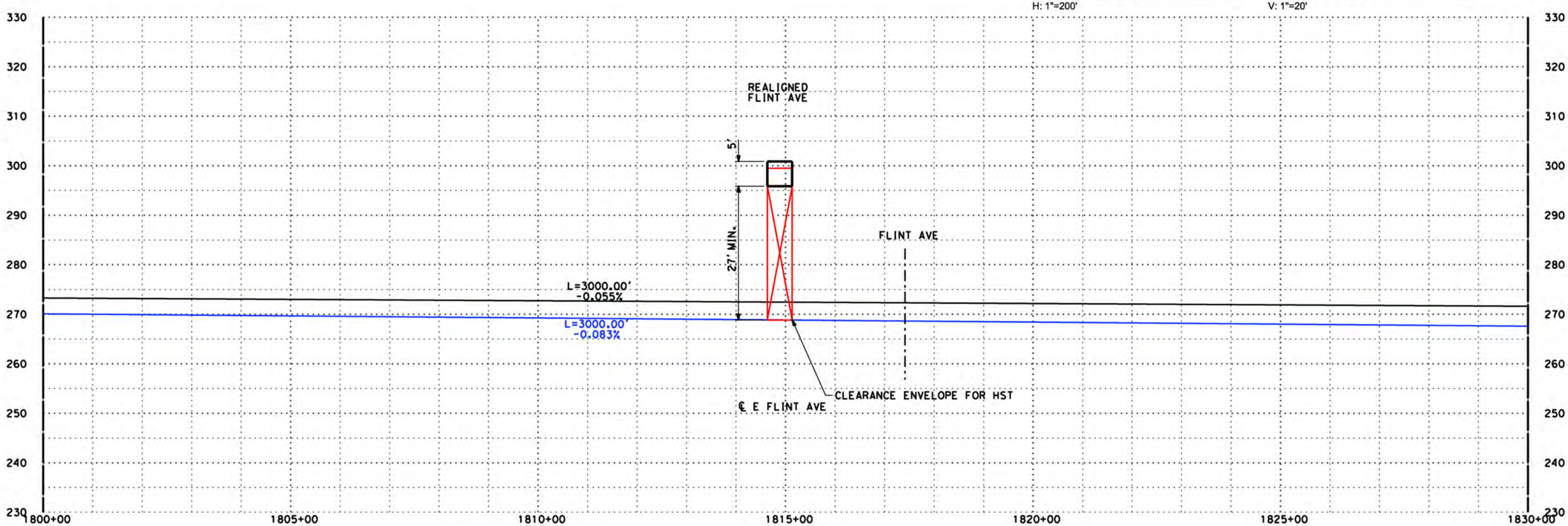


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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DESIGNED BY P. Barney
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE $DATE$2014

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMMENT H
PLAN AND PROFILE
H 1800+00.00 TO H 1830+00.00
ATC 17

CONTRACT NO. HSR 06-0003
DRAWING NO. D1042
SCALE AS SHOWN
SHEET NO.

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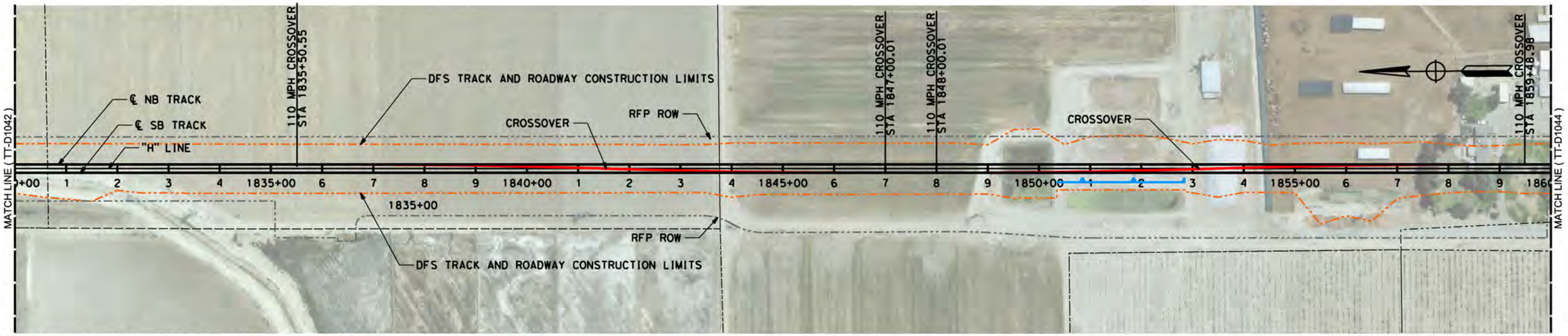
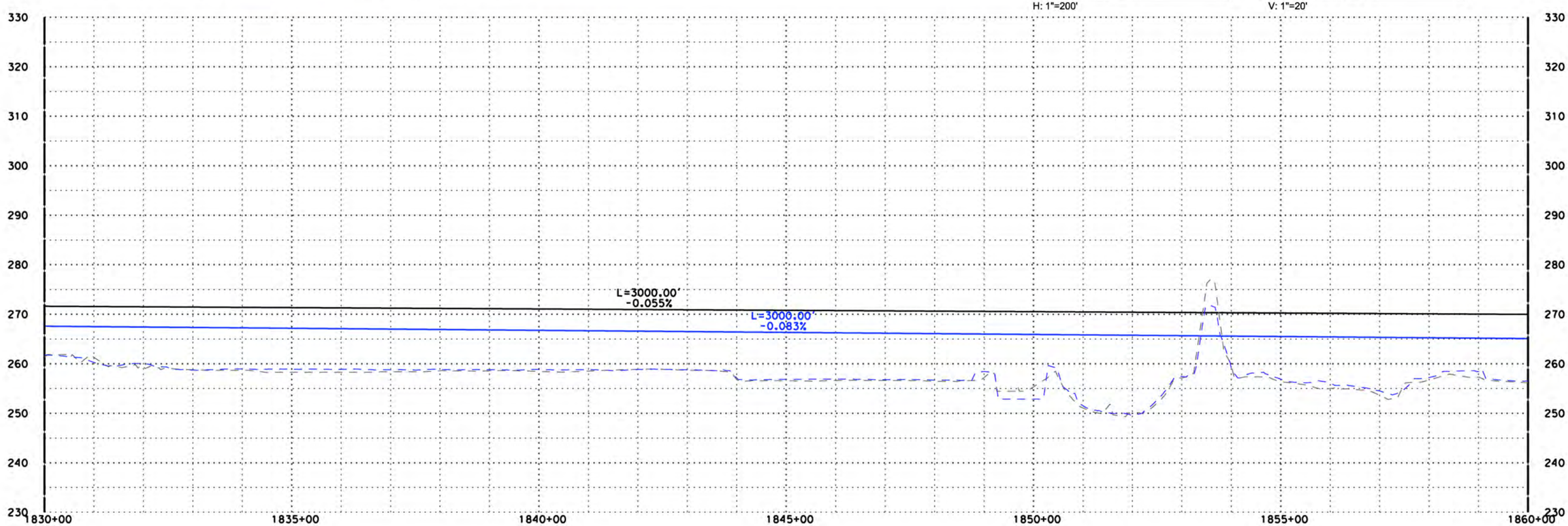


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DESIGNED BY P. Barney
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

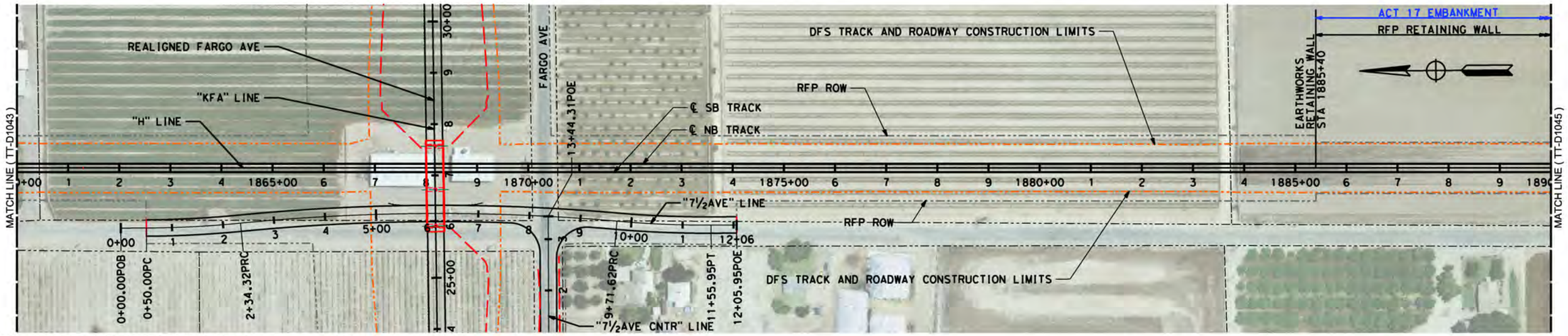
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
PLAN AND PROFILE
H 1830+00.00 TO H 1860+00.00

ATC 17

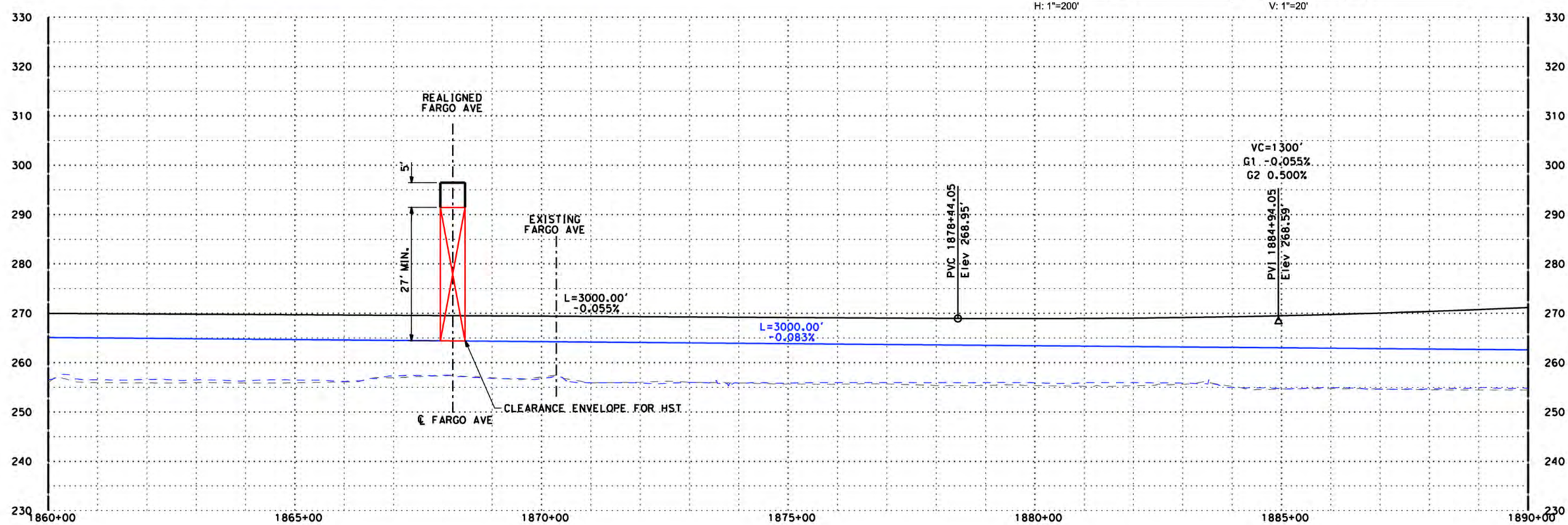
CONTRACT NO. HSR 06-0003
DRAWING NO. D1043
SCALE AS SHOWN
SHEET NO.

10/14/2014 10:23:37 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG3-H_TT-D1043.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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DESIGNED BY	P. Barney
DRAWN BY	S. Partington
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
PLAN AND PROFILE
H 1860+00.00 TO H 1890+00.00

ATC 17

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1044
SCALE	AS SHOWN
SHEET NO.	

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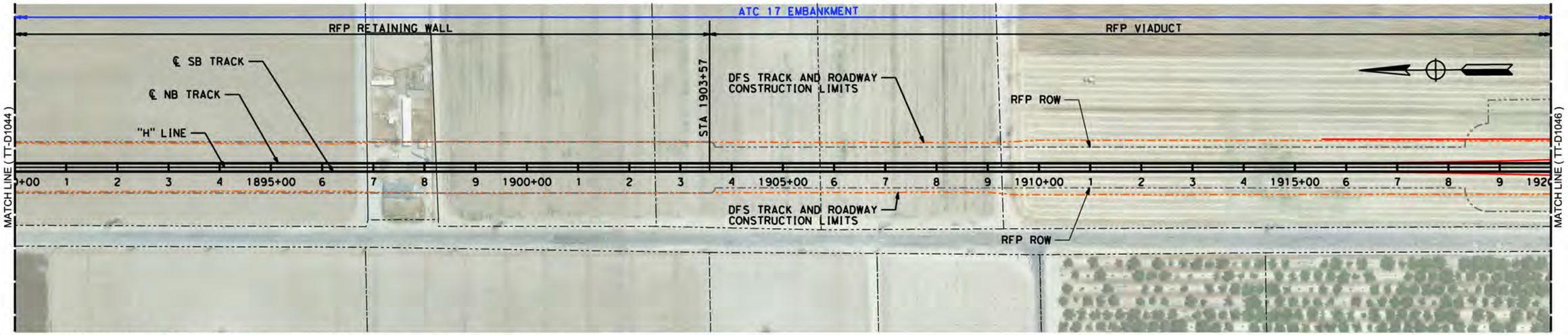
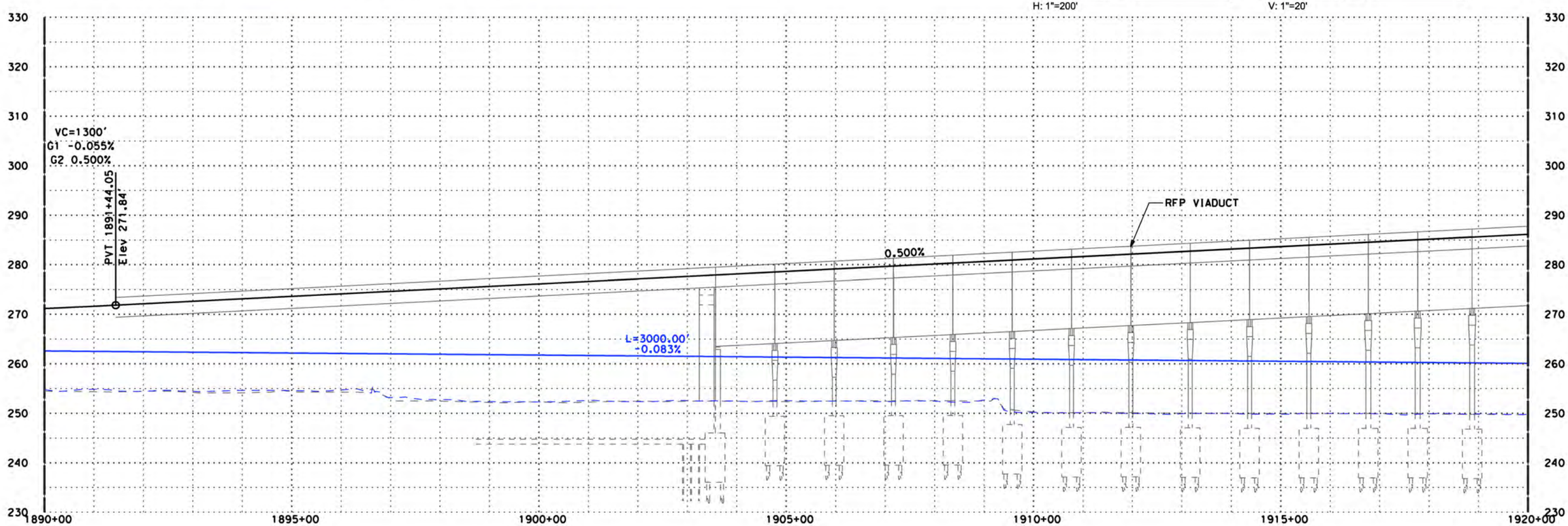


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DESIGNED BY P. Barney
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

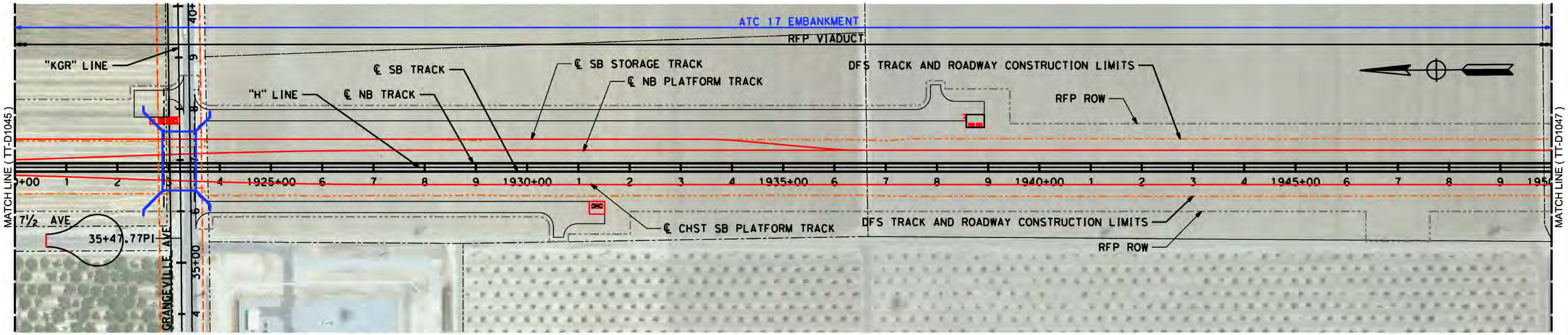
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H ATC 17
PLAN AND PROFILE
H 1890+00.00 TO H 1920+00.00

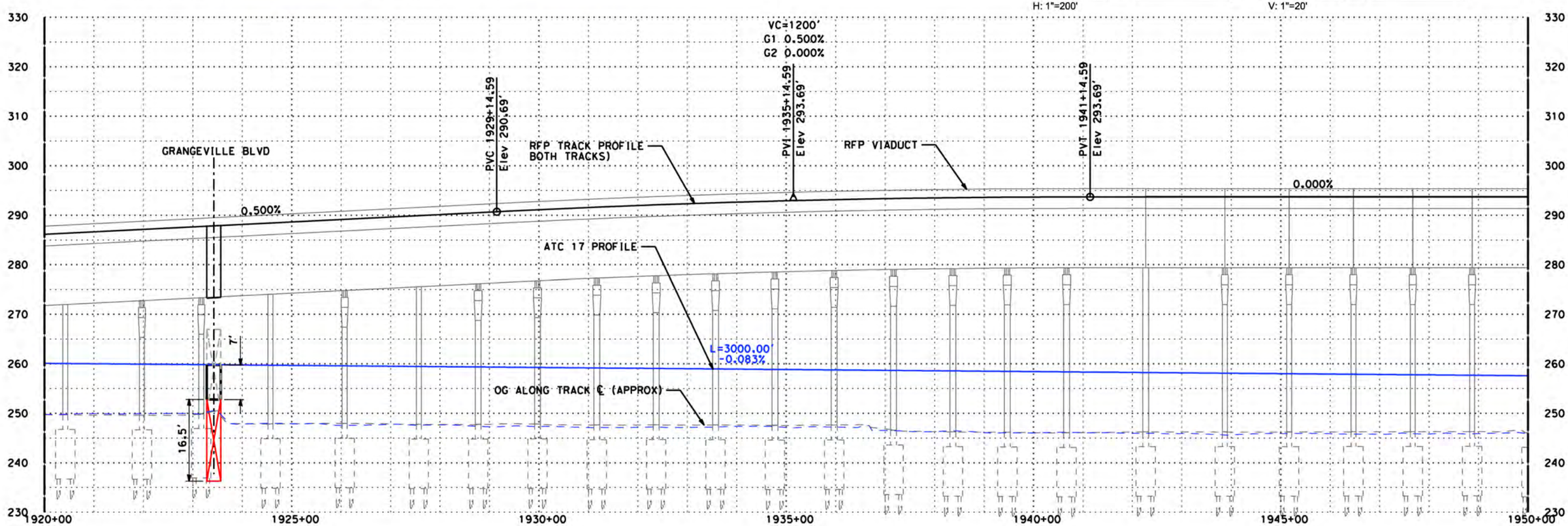
CONTRACT NO. HSR 06-0003
DRAWING NO. D1045
SCALE AS SHOWN
SHEET NO.

10/14/2014 10:25:04 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG3-H_TT-D1045.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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DESIGNED BY	P. Barney
DRAWN BY	S. Partington
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
PLAN AND PROFILE
H 1920+00.00 TO H 1950+00.00

ATC 17

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1046
SCALE	AS SHOWN
SHEET NO.	

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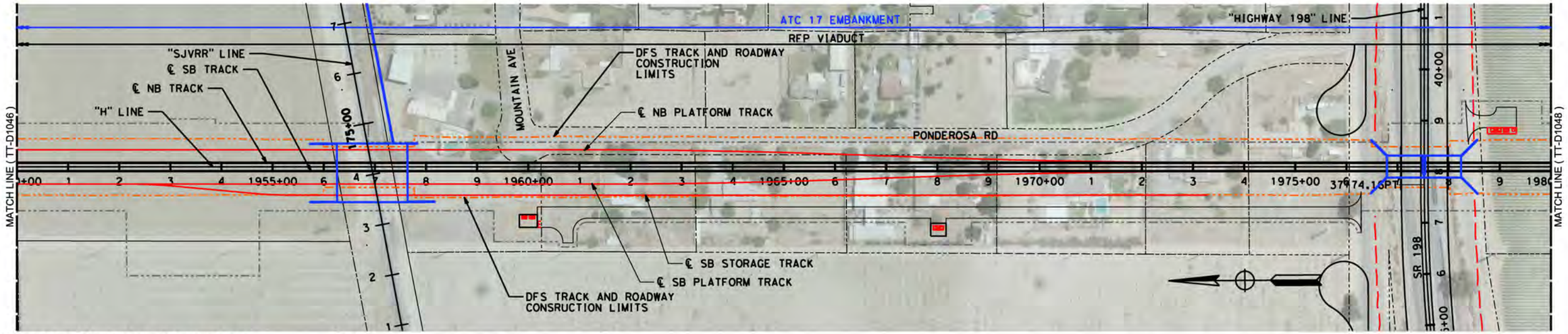
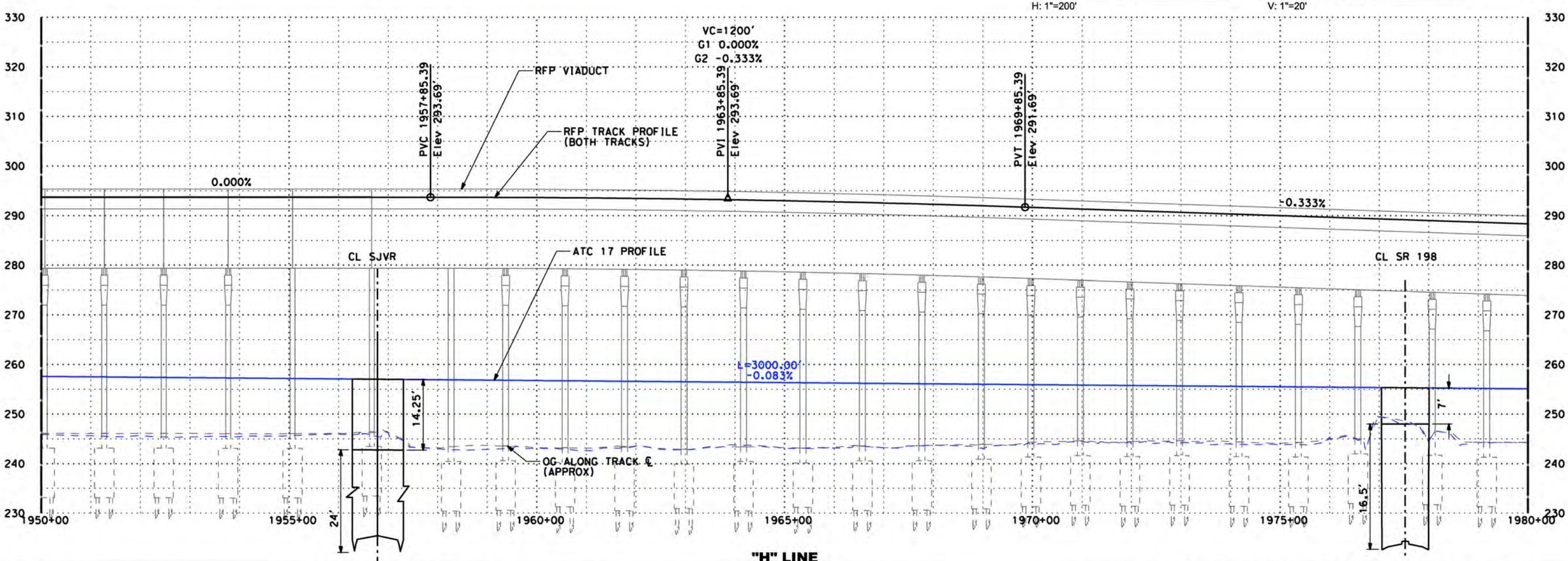


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DESIGNED BY	P. Barney
DRAWN BY	S. Partington
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	DATE 2014

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
PLAN AND PROFILE
H 1950+00.00 TO H 1980+00.00

ATC 17

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1047
SCALE	AS SHOWN
SHEET NO.	

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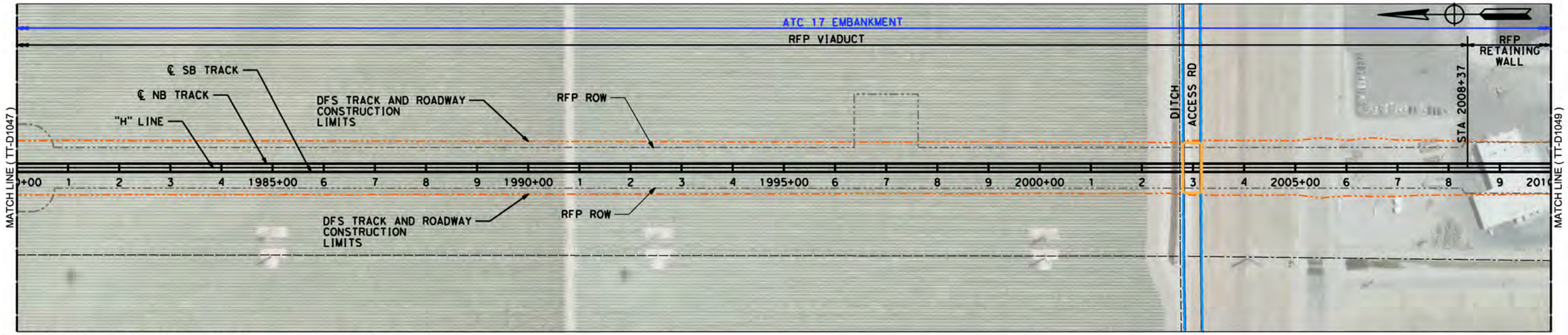
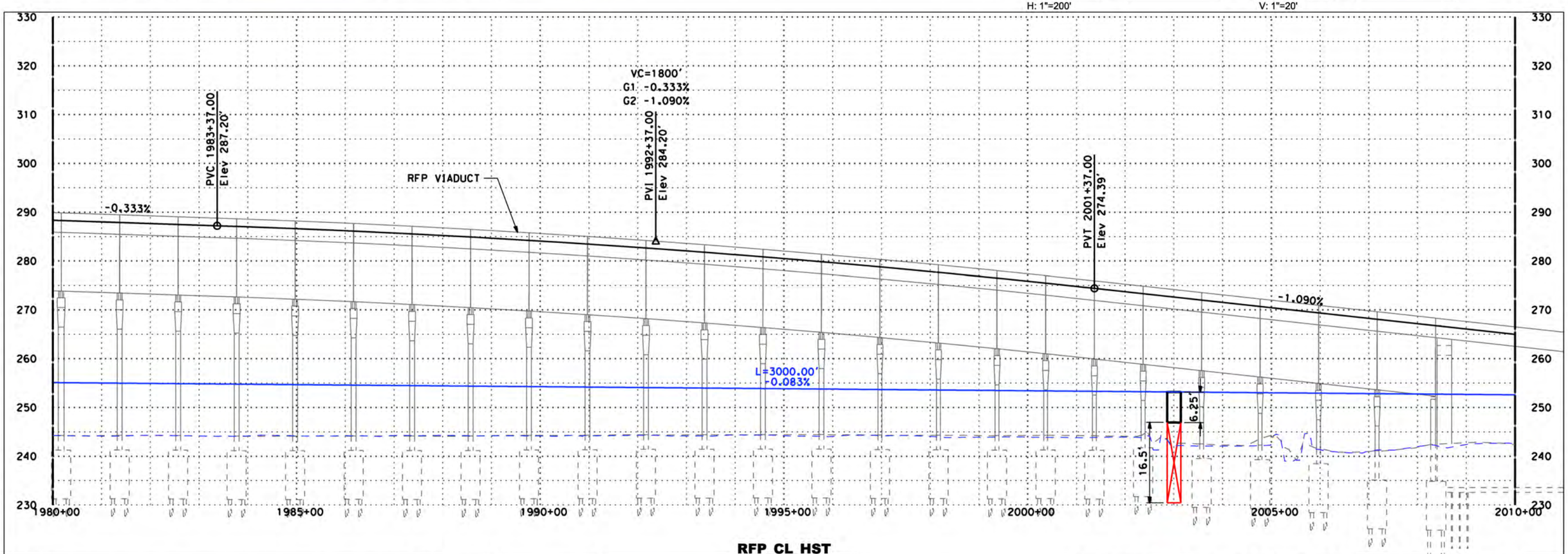


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

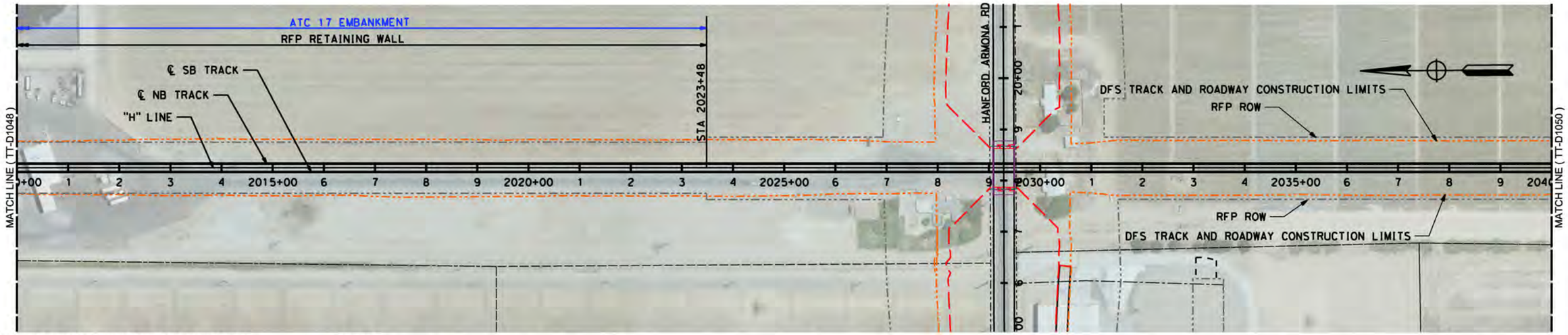
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H ATC 17
PLAN AND PROFILE
H 1980+00.00 TO H 2010+00.00

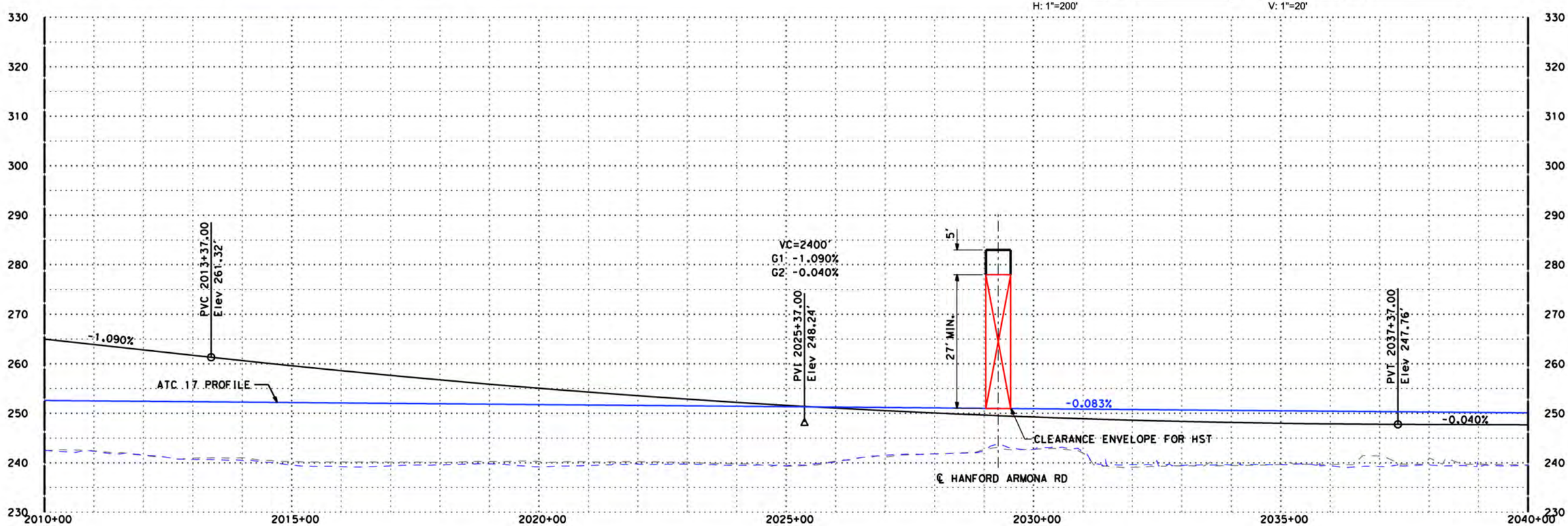
CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1048
SCALE	AS SHOWN
SHEET NO.	

10/14/2014 10:27:17 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG3-H_TT-D1048.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"H" LINE

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DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
PLAN AND PROFILE
H 2010+00.00 TO H 2040+00.00

ATC 17

CONTRACT NO. HSR 06-0003
DRAWING NO. D1049
SCALE AS SHOWN
SHEET NO.

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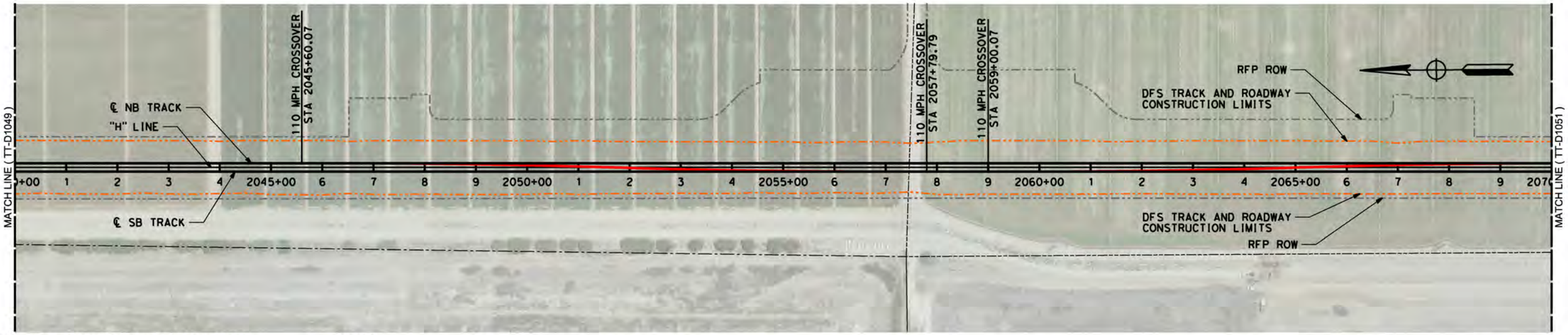
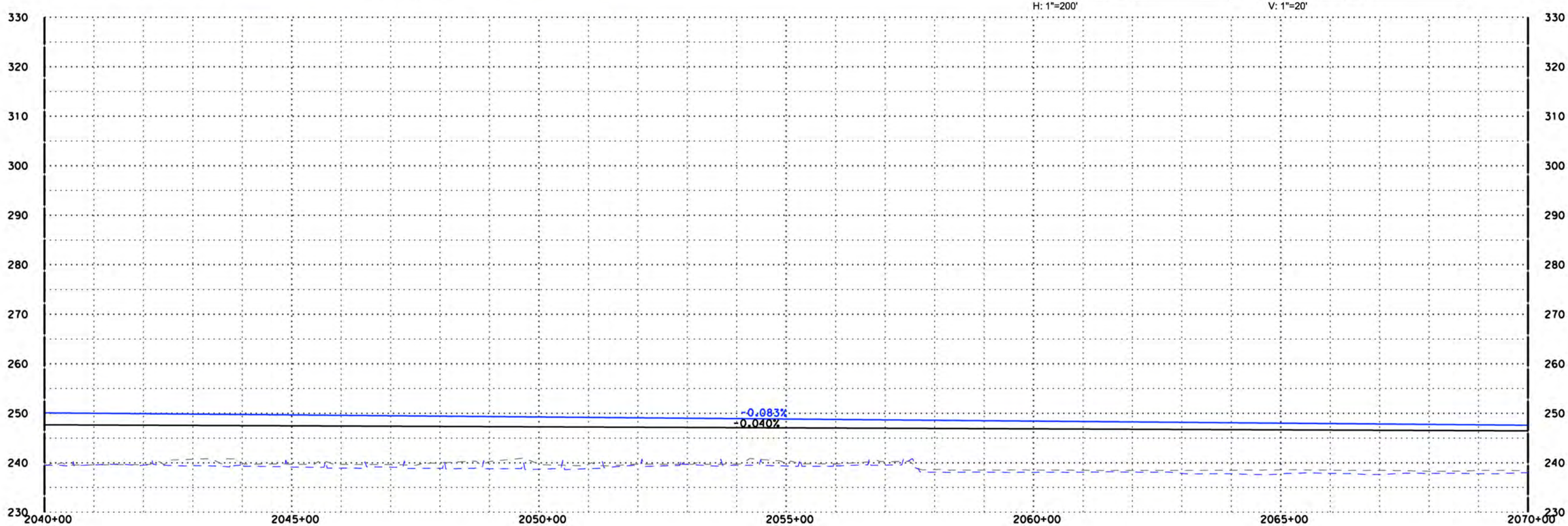


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"H" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 2040+00.00 TO H 2070+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1050
SCALE AS SHOWN
SHEET NO.

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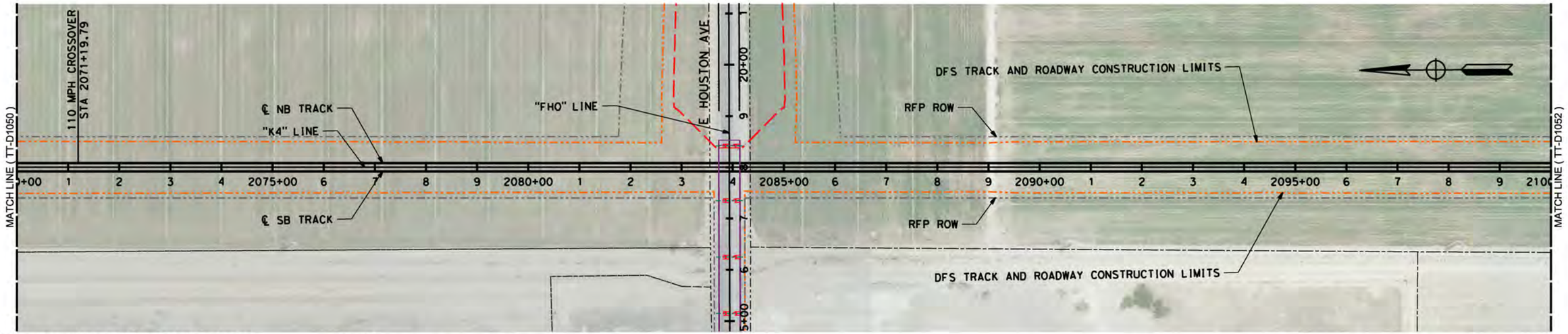
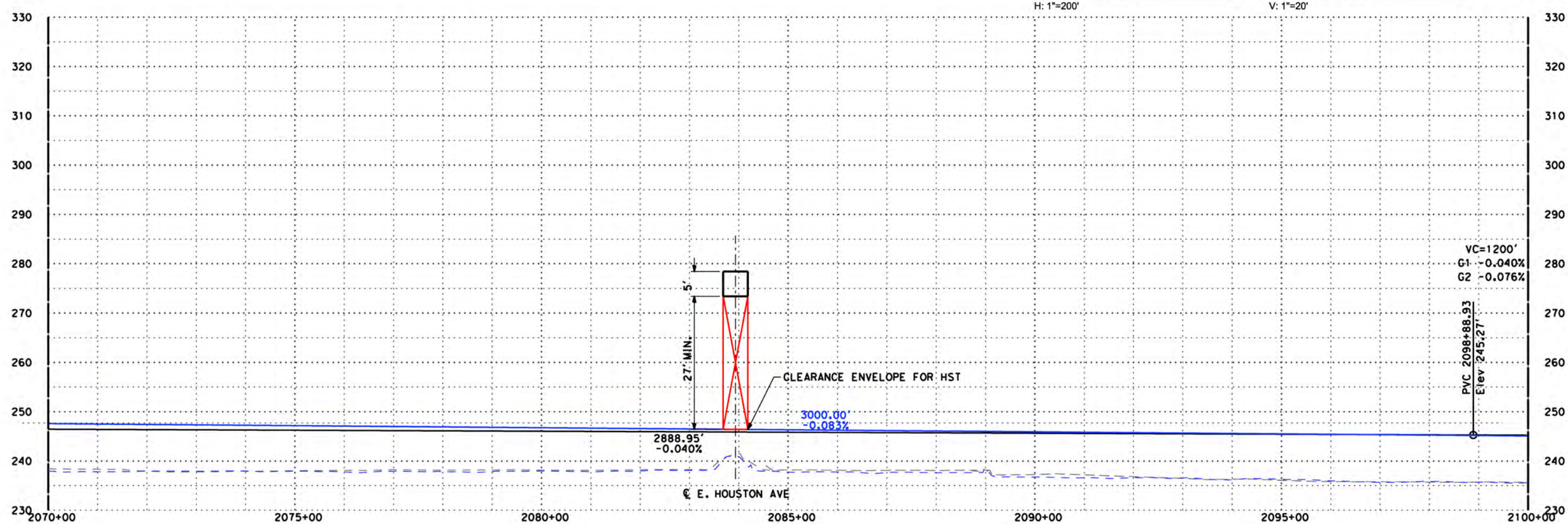


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"H" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

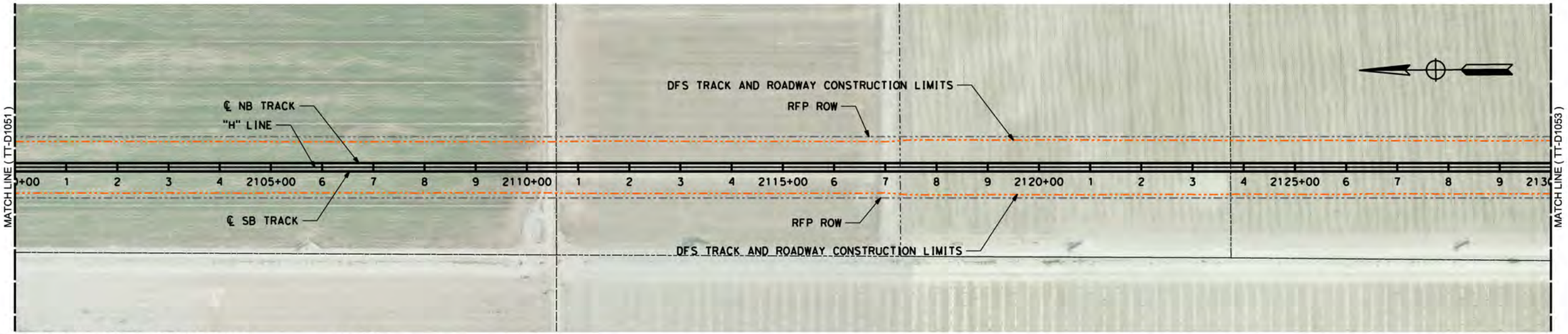
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 2070+00.00 TO H 2100+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1051
SCALE AS SHOWN
SHEET NO.

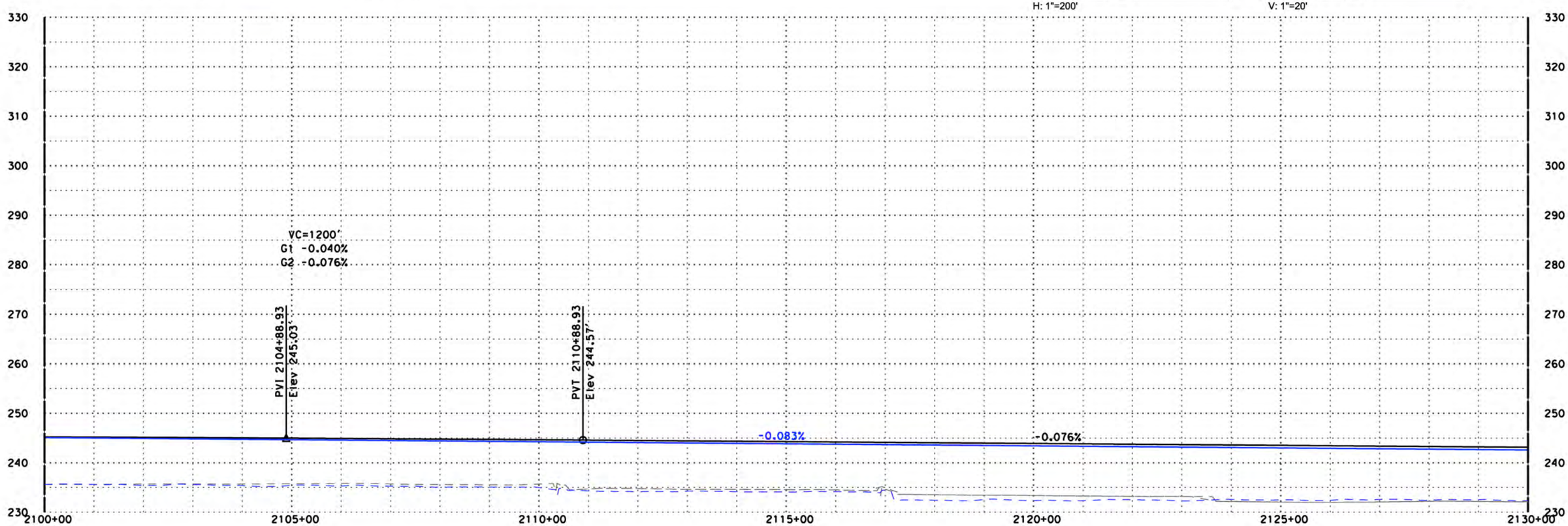
10/14/2014 10:29:27 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG3-H_TT-D1051.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"H" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

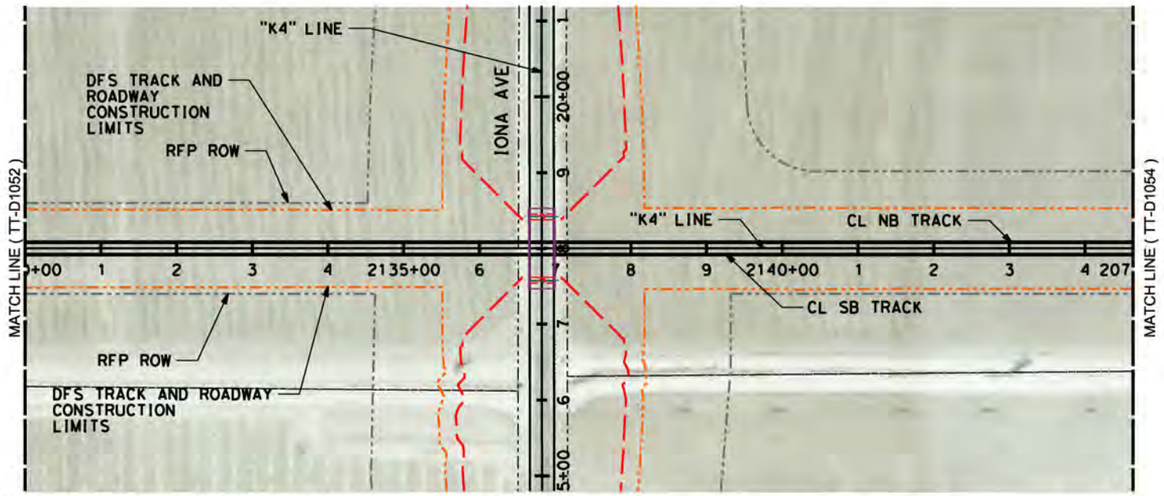
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 2100+00.00 TO H 2130+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1052
SCALE AS SHOWN
SHEET NO.

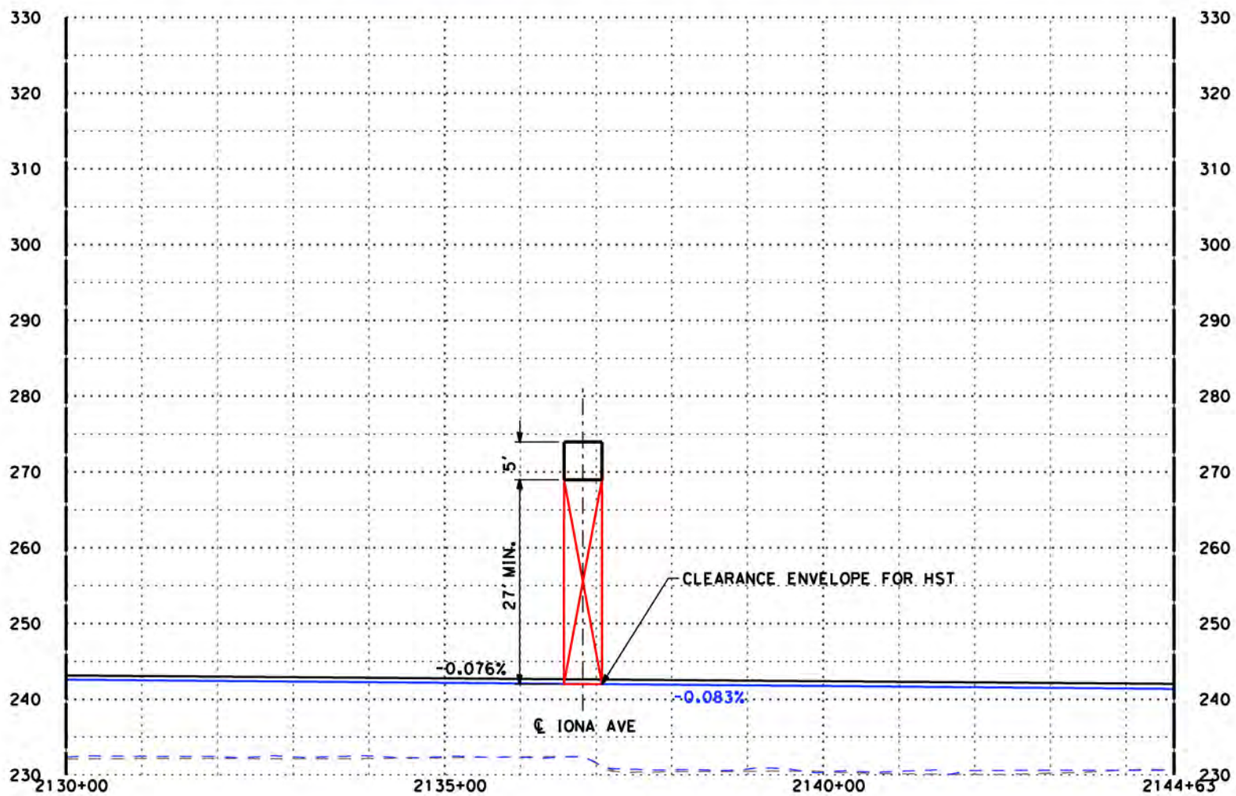
10/14/2014 10:30:11 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG3-H_TT-D1052.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"H" LINE

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DESIGNED BY	B. Kidd
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

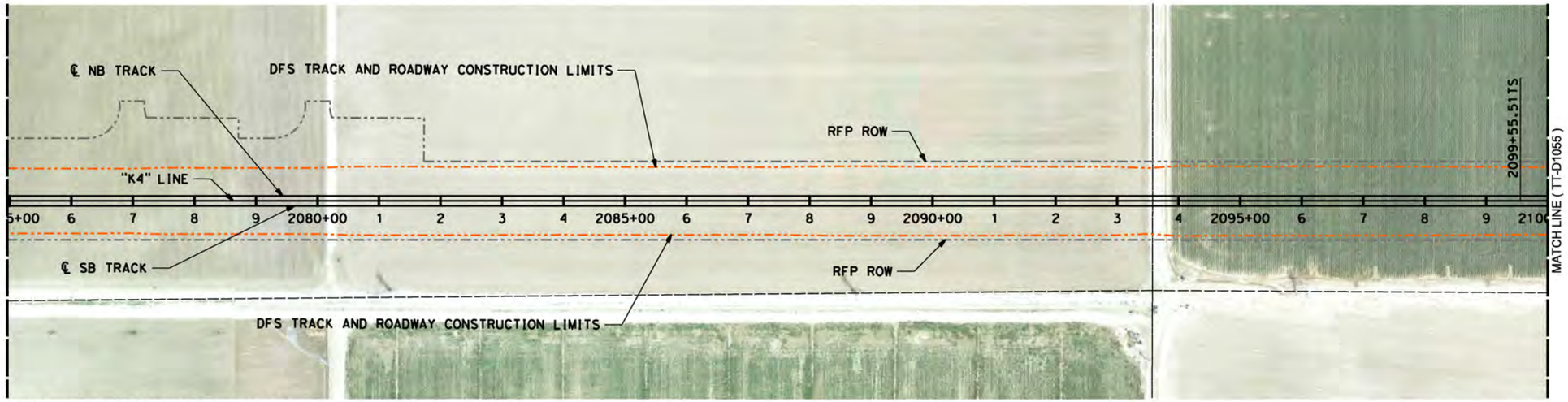
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT H

PLAN AND PROFILE
H 2130+00.00 TO H 2144+63.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1053
SCALE	AS SHOWN
SHEET NO.	

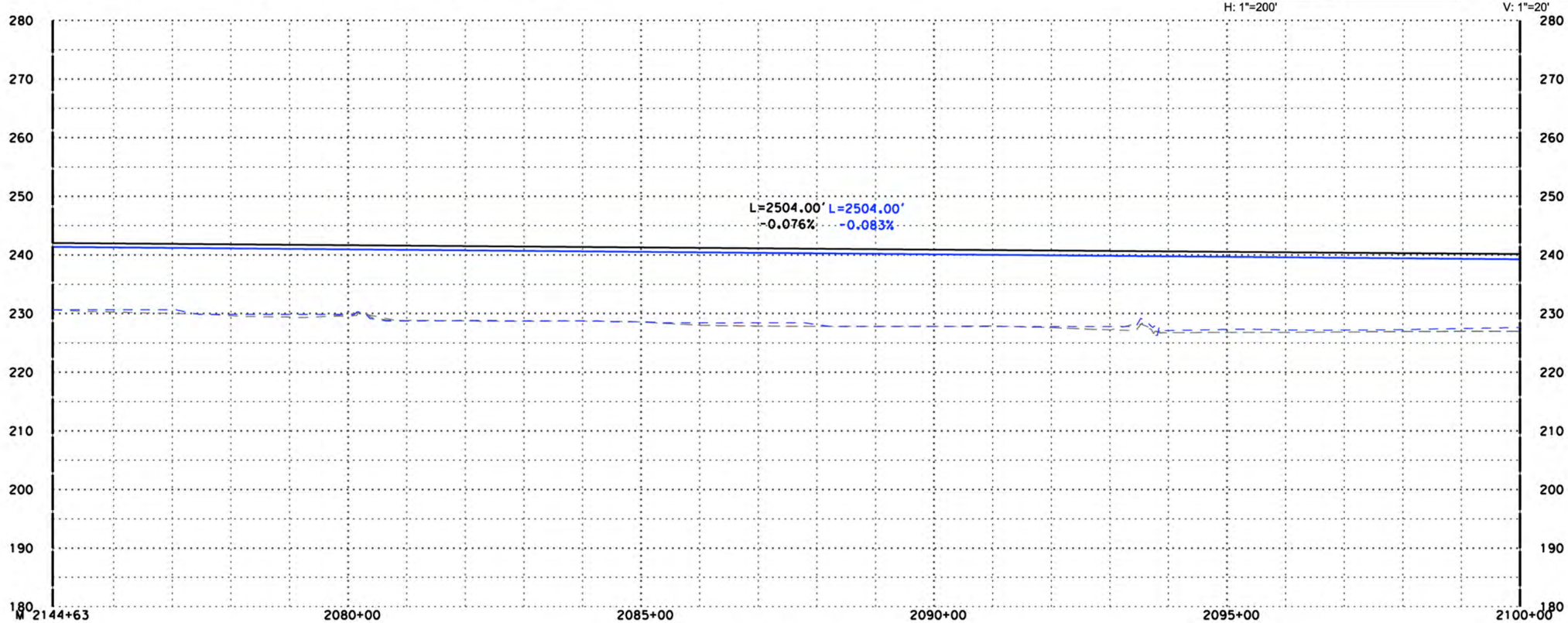
10/14/2014 10:30:29 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG3-H_TT-D1053.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG - - - - - - - - - - - - - - - - - -
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX) - - - - - - - - - - - - - - - - - -

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"K4" LINE

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

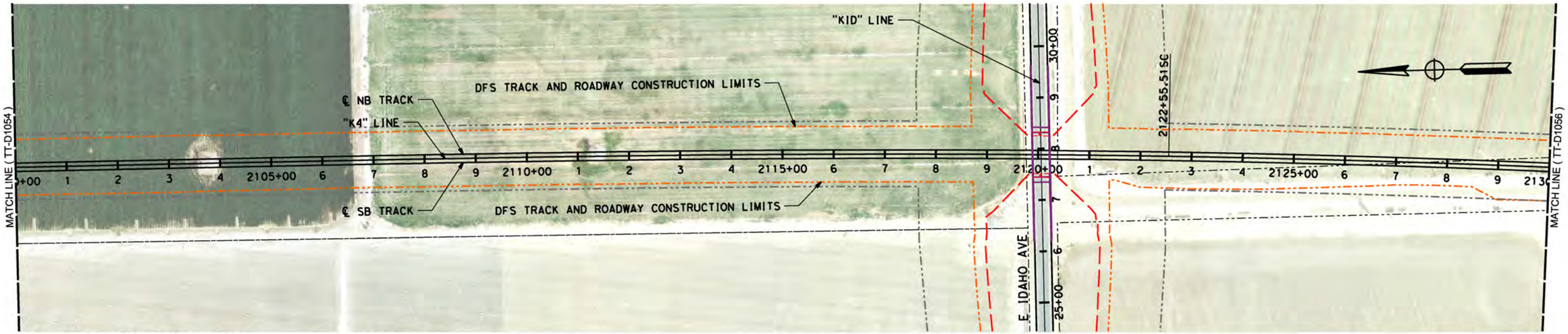
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2144+63.00 TO K 2100+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1054
SCALE AS SHOWN
SHEET NO.

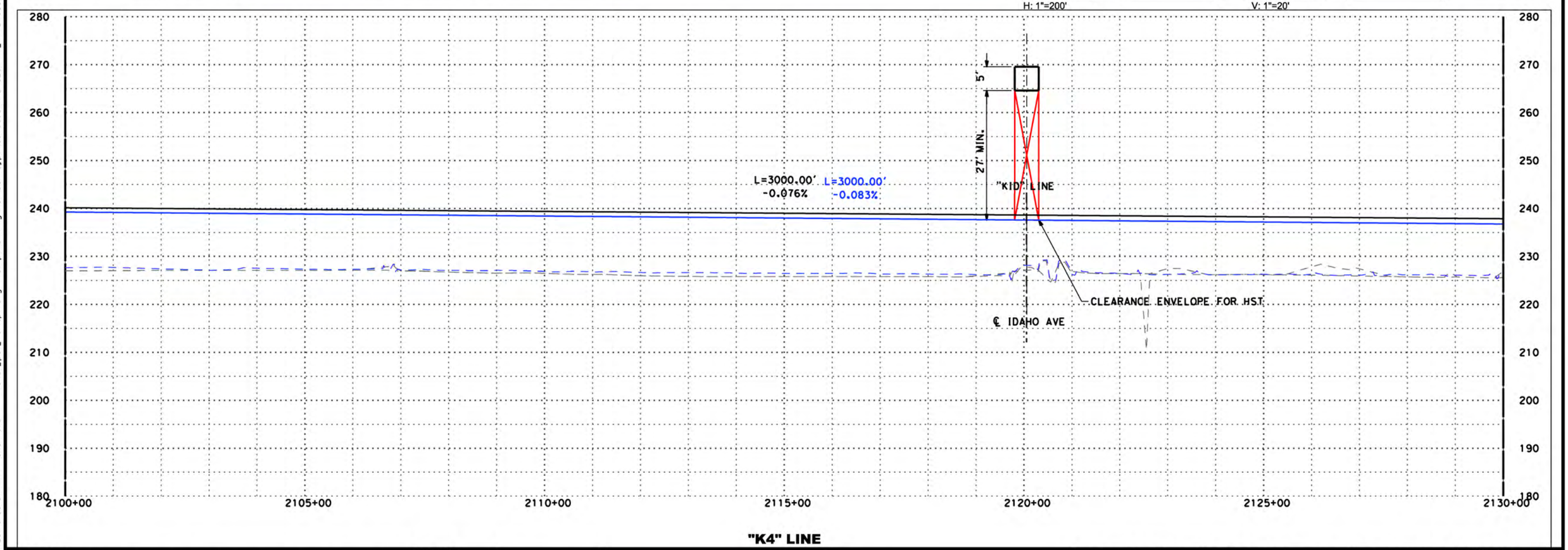
10/13/2014 9:29:56 PM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\barneypr\d0168034\FB-SEG4-K4_TT-D1054.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DESIGNED BY	B. Kidd
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	08/28/14

RECORD SET 15% DESIGN SUBMISSION
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NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2100+00.00 TO K 2130+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1055
SCALE	AS SHOWN
SHEET NO.	

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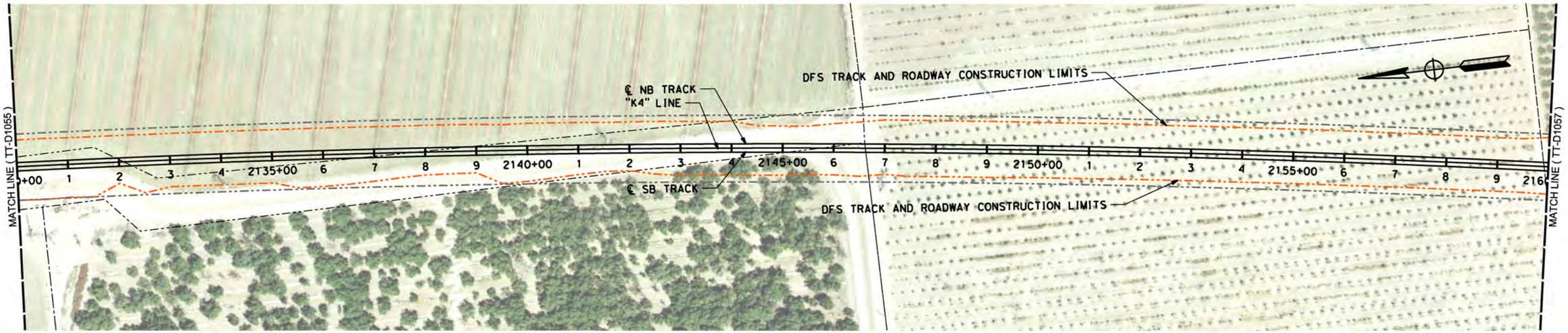
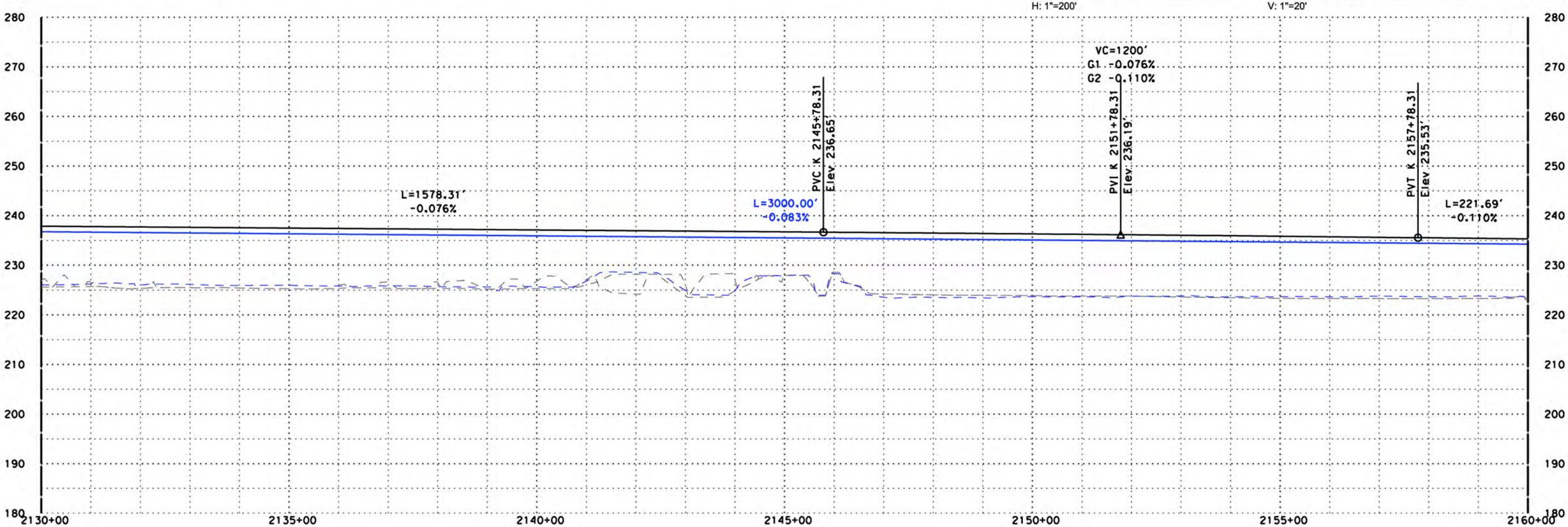


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"K4" LINE

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
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NOT FOR CONSTRUCTION

DFS

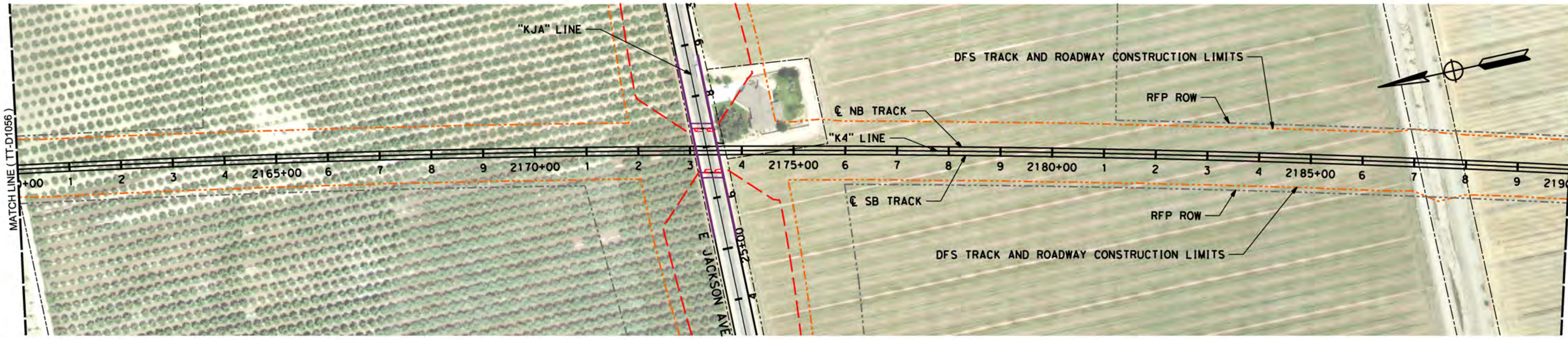
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2130+00.00 TO K 2160+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1056
SCALE AS SHOWN
SHEET NO.

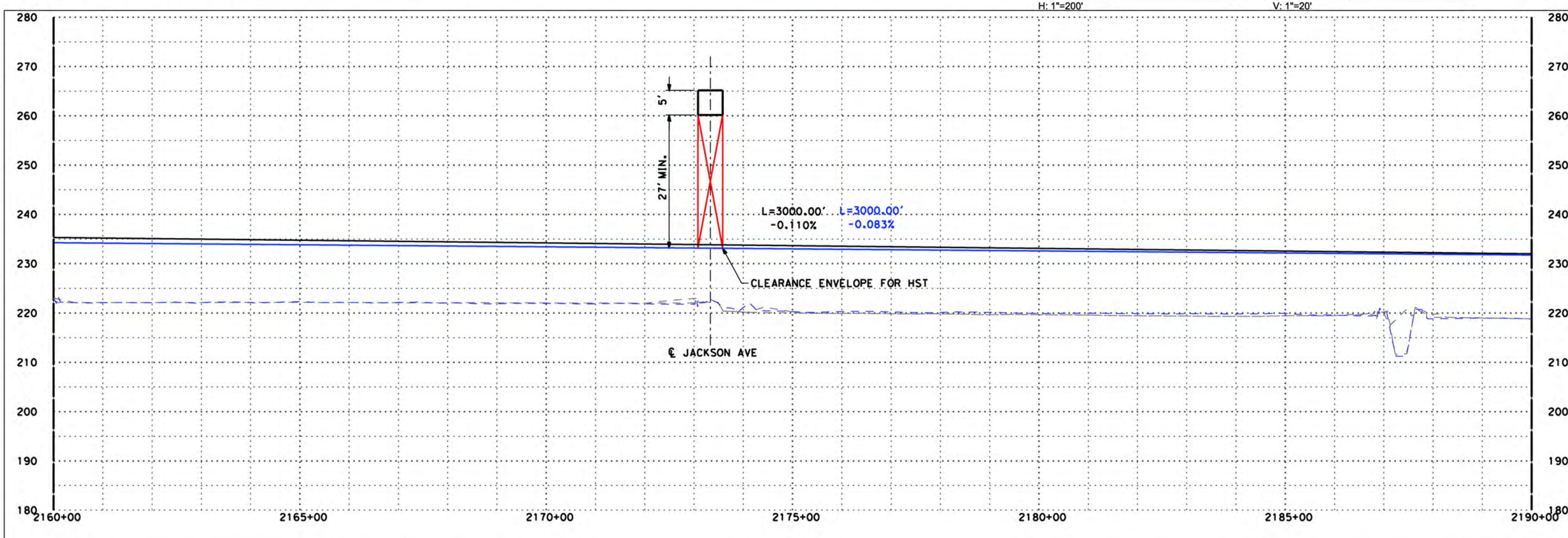
10/13/2014 9:31:15 PM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\oai\barneypt\d0168034\FB-SEG4-K4_TT-D1056.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400
H: 1"=200'

0 20 40
V: 1"=20'



"K4" LINE

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DESIGNED BY	B. Kidd
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2160+00.00 TO K 2190+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1057
SCALE	AS SHOWN
SHEET NO.	

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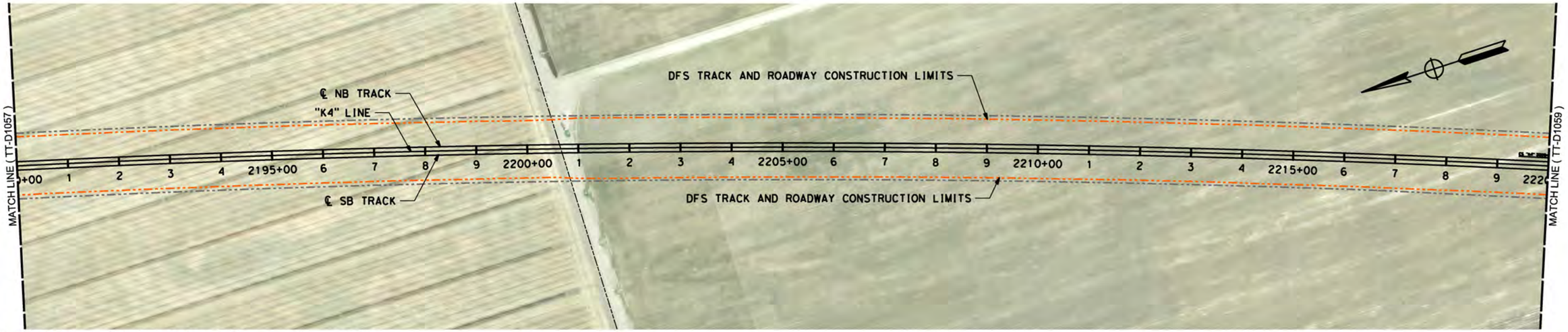
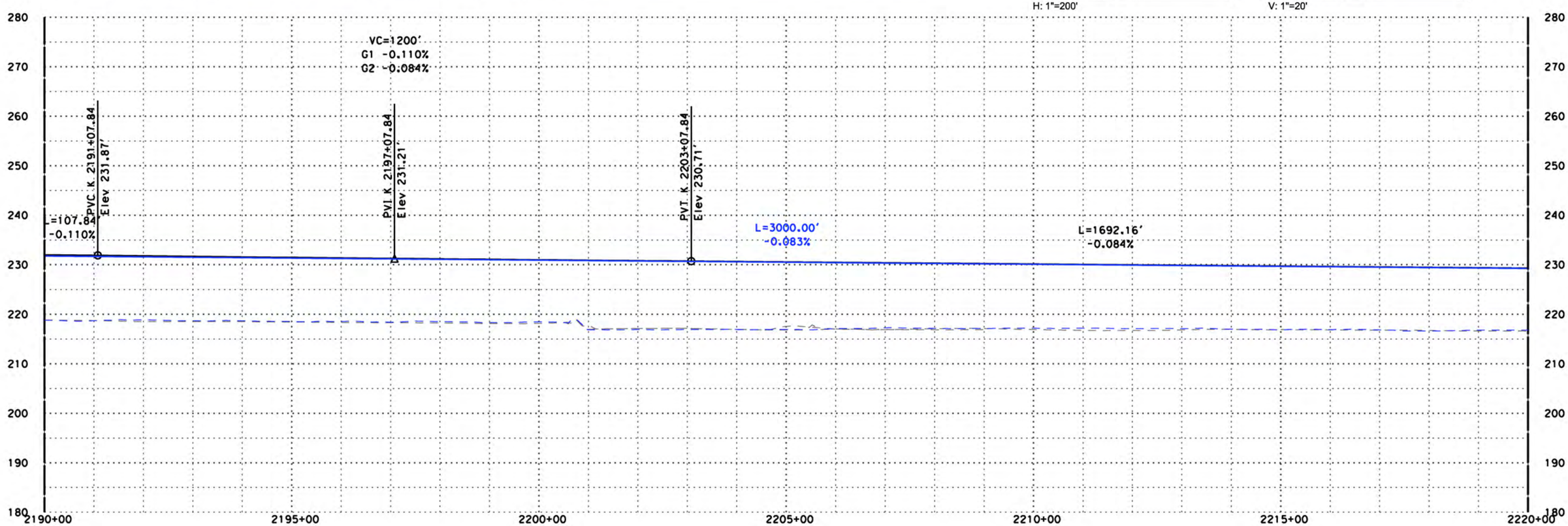


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"K4" LINE

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

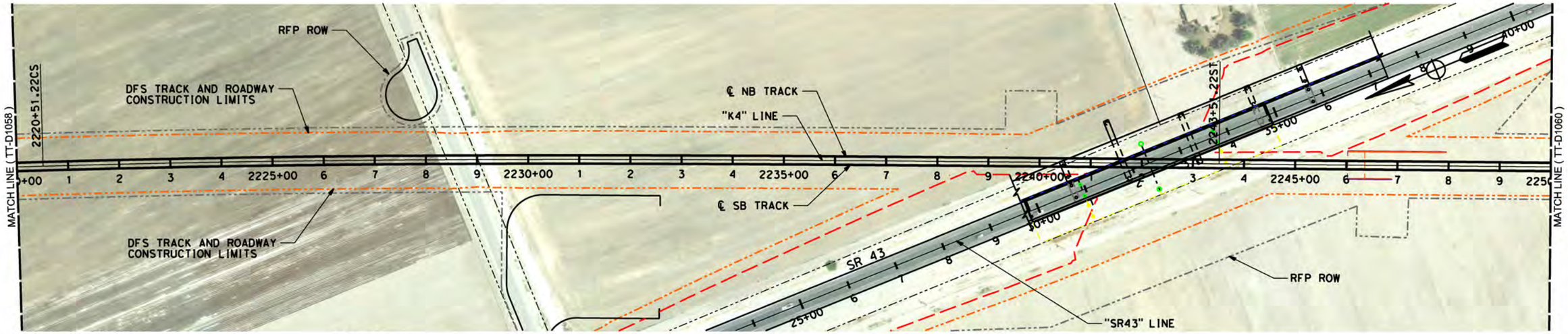
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2190+00.00 TO K 2220+00.00

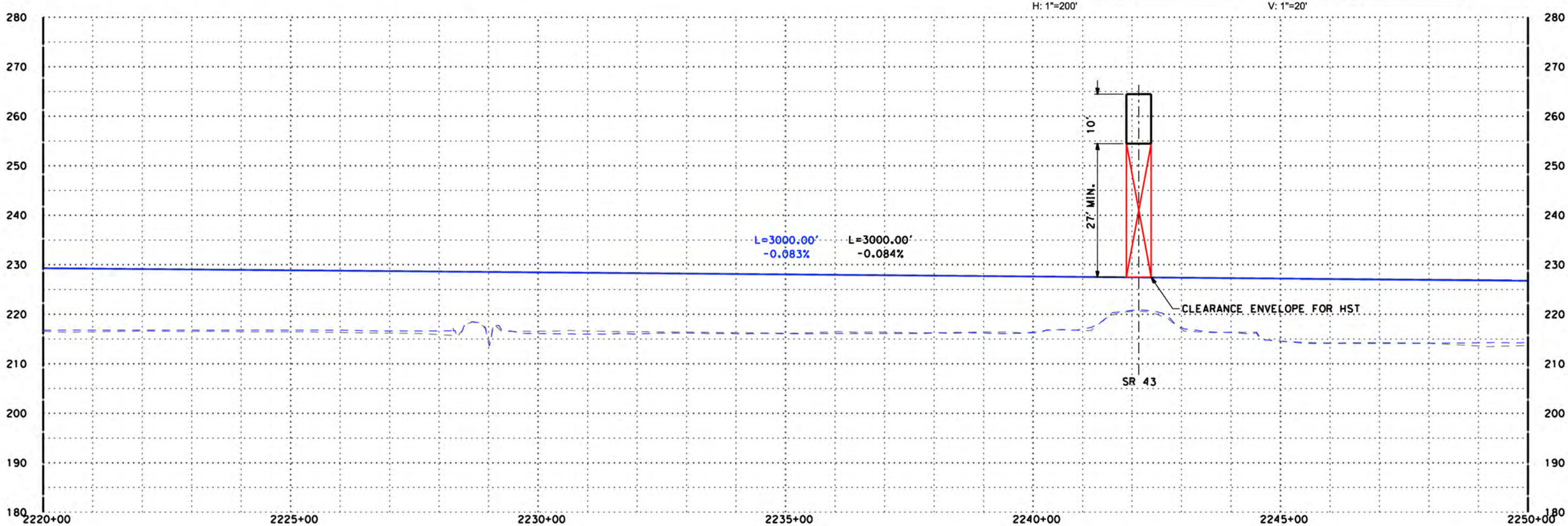
CONTRACT NO. HSR 06-0003
DRAWING NO. D1058
SCALE AS SHOWN
SHEET NO.

10/13/2014 9:32:37 PM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\oai\barneypt\d0168034\FB-SEG4-K4_TT-D1058.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"K4" LINE

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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

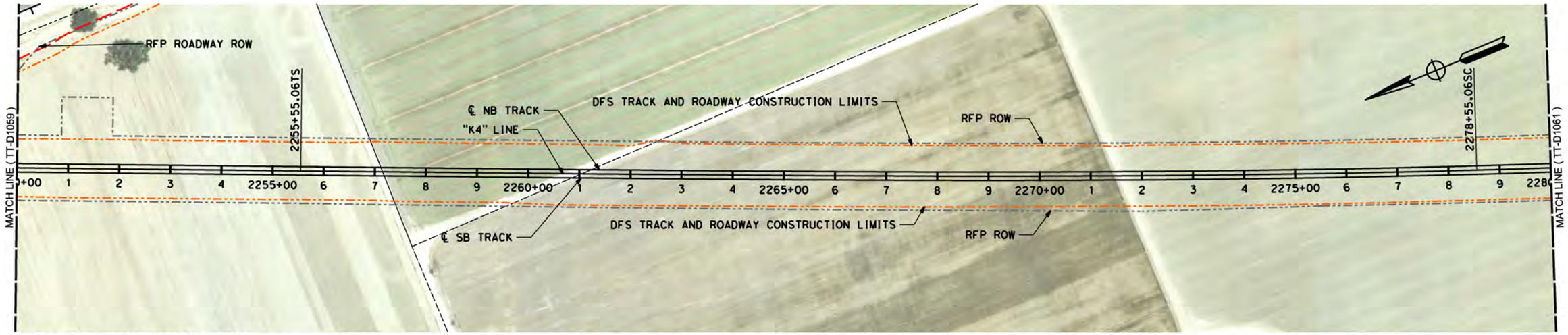
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2220+00.00 TO K 2250+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1059
SCALE AS SHOWN
SHEET NO.

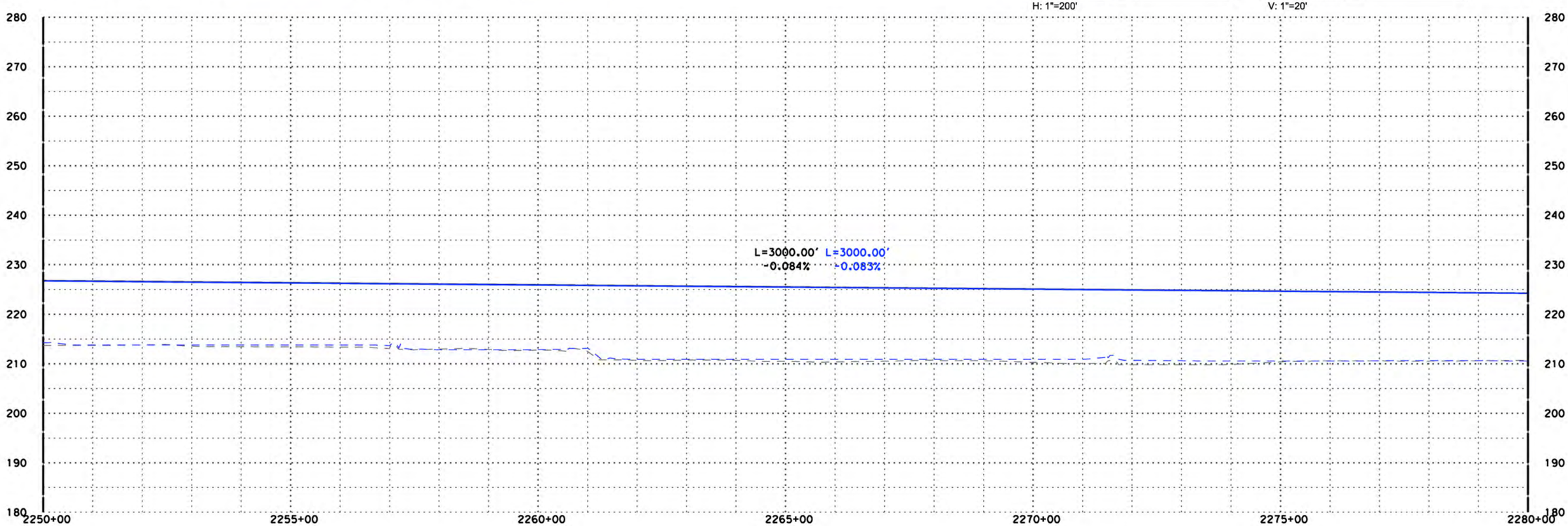
10/13/2014 9:33:21 PM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\barneypt\d0168034\FB-SEG4-K4_TT-D1059.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"K4" LINE

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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2250+00.00 TO K 2280+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1060
SCALE AS SHOWN
SHEET NO.

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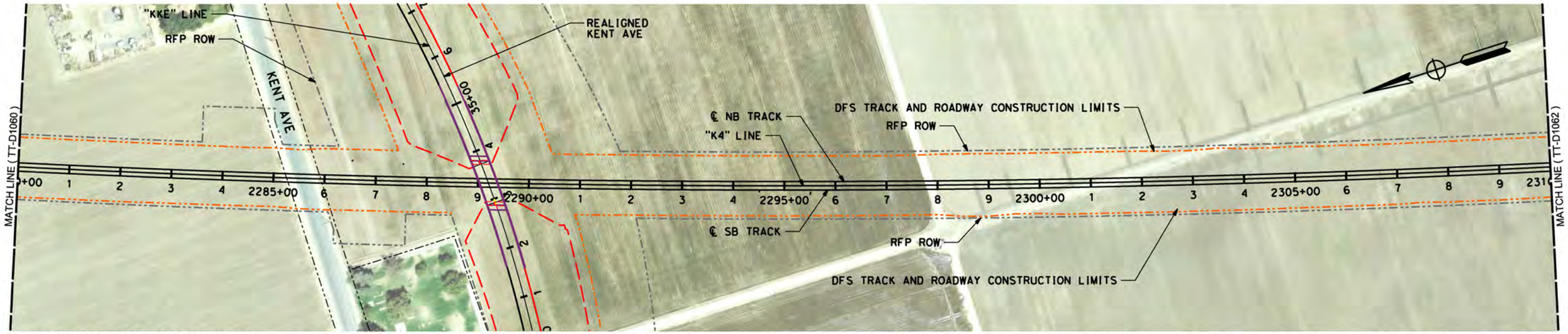
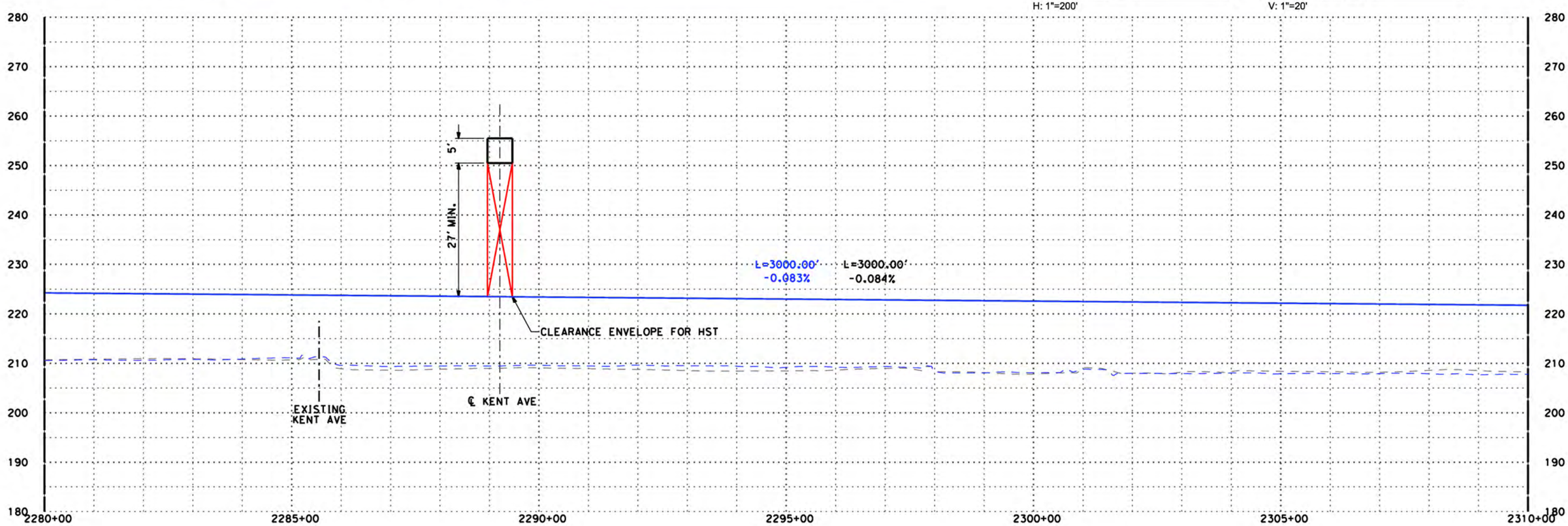


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"K4" LINE

DISCLAIMER:
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DESIGNED BY	B. Kidd
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2280+00.00 TO K 2310+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1061
SCALE	AS SHOWN
SHEET NO.	

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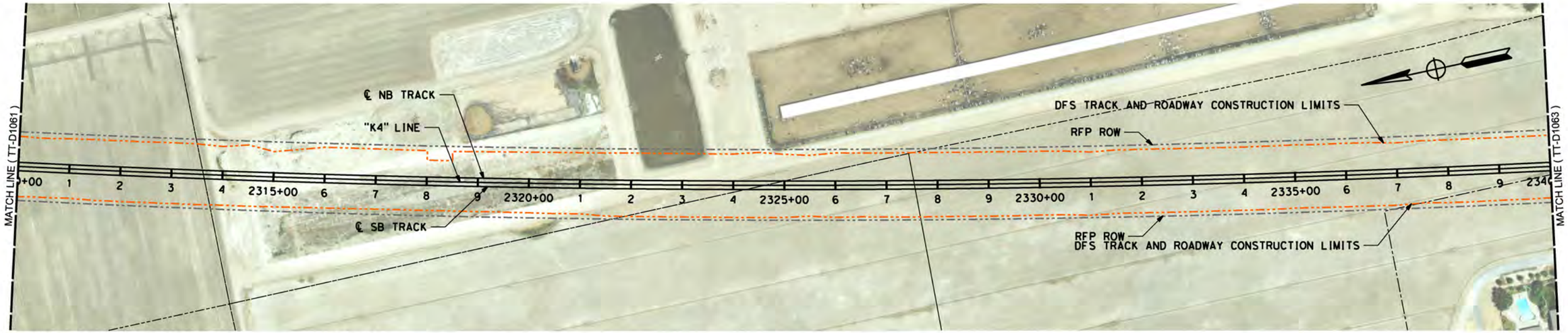
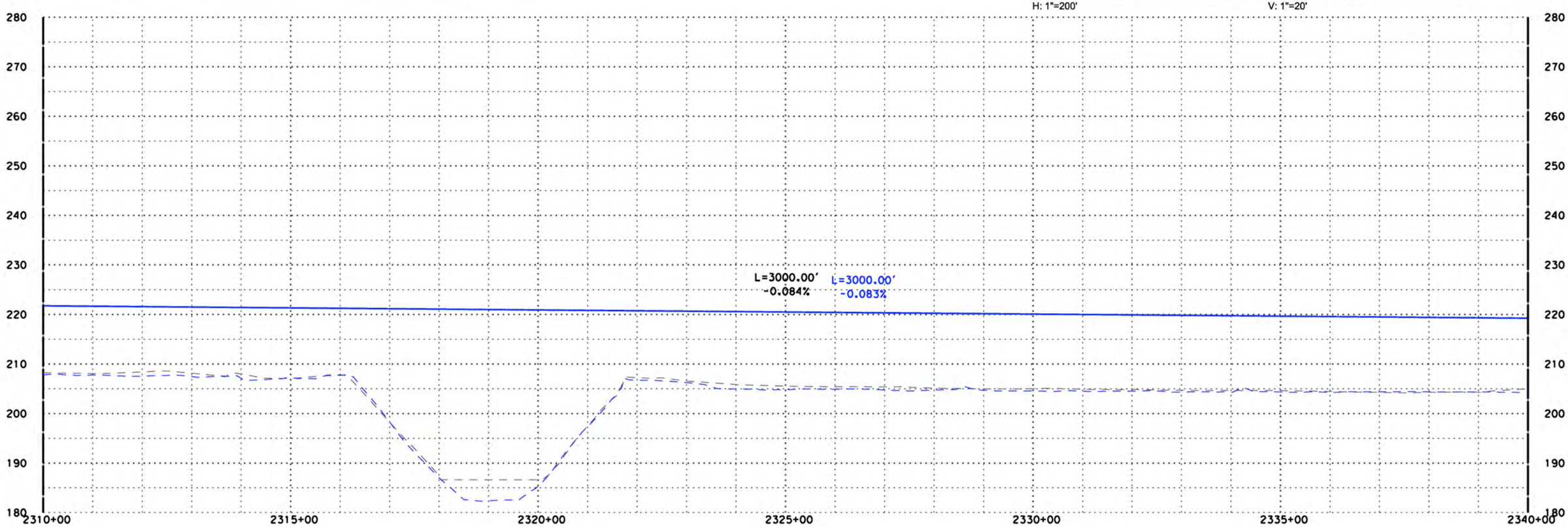


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"K4" LINE

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2310+00.00 TO K 2340+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1062
SCALE AS SHOWN
SHEET NO.

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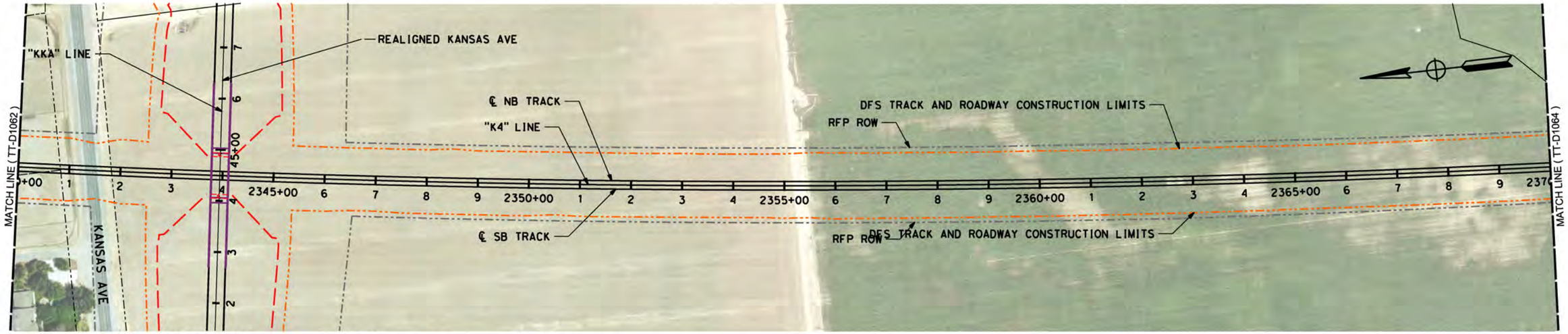
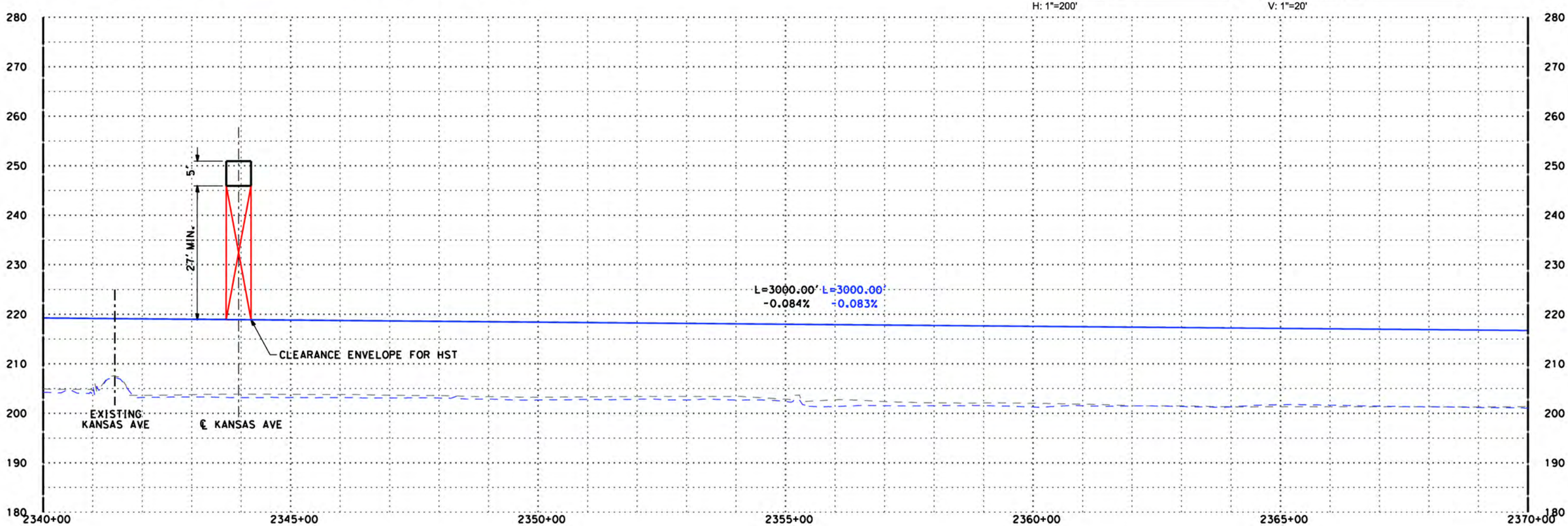


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"K4" LINE

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2340+00.00 TO K 2370+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1063
SCALE AS SHOWN
SHEET NO.

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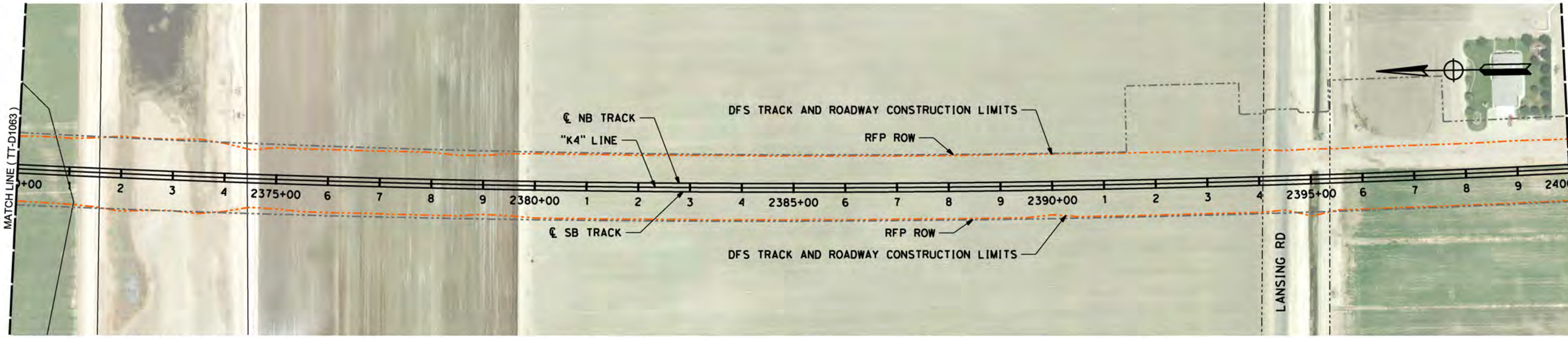
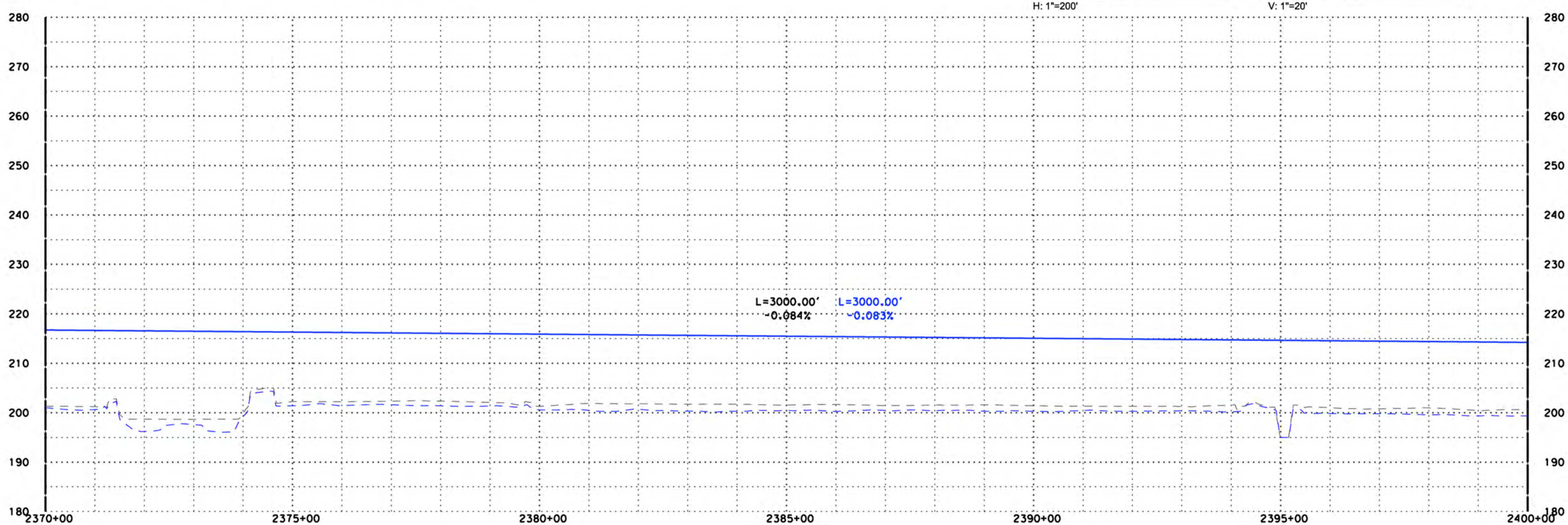


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) ——— RFP OG – – – –
PROPOSED OPTIMIZED PROFILE ——— OG ALONG TRACK CL (APPROX) – – – –

H: 1"=200' (0, 200, 400)
V: 1"=20' (0, 20, 40)



"K4" LINE

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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2370+00.00 TO K 2400+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1064
SCALE	AS SHOWN
SHEET NO.	

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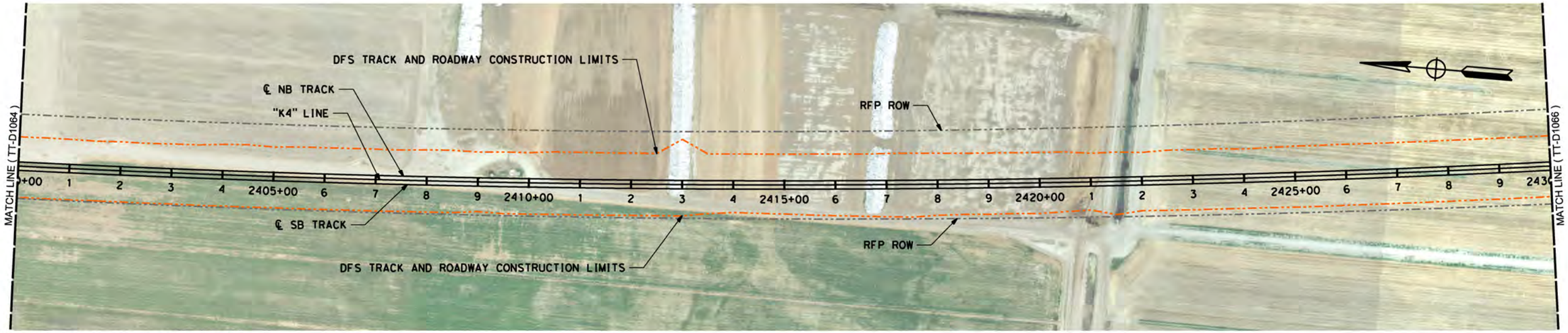
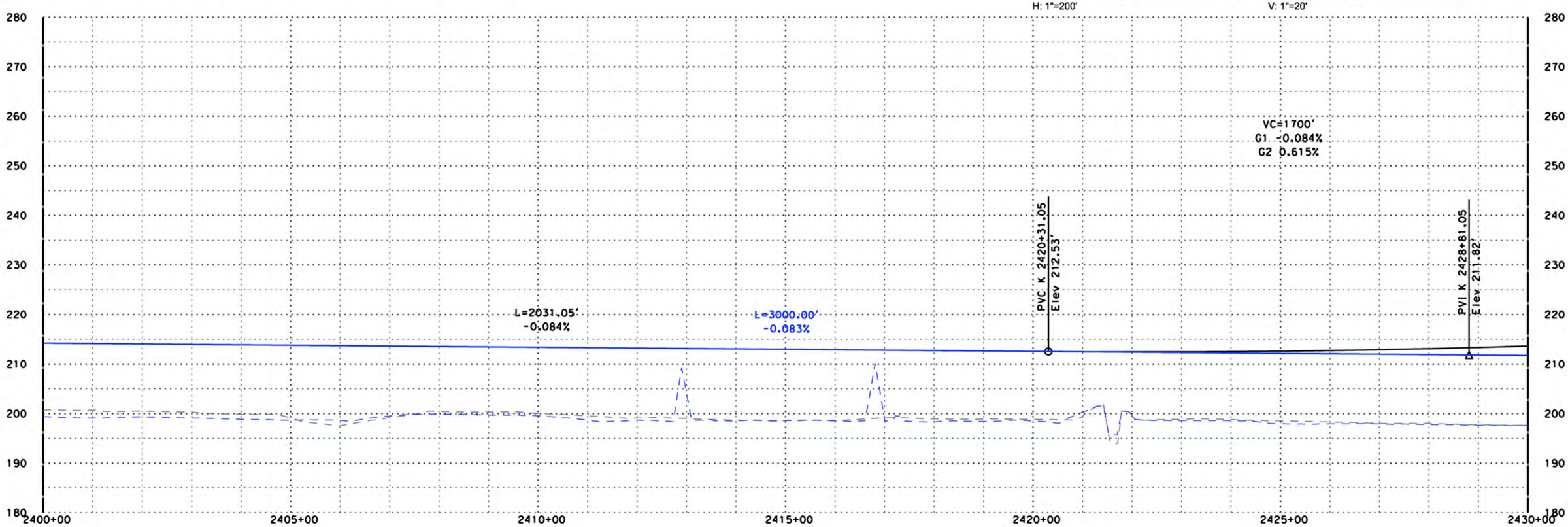


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"K4" LINE

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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2400+00.00 TO K 2430+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1065
SCALE	AS SHOWN
SHEET NO.	

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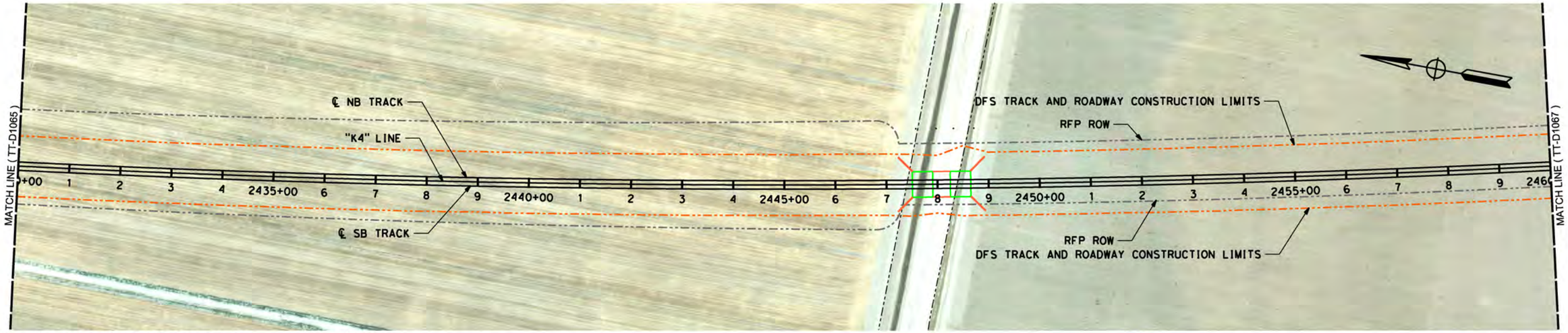
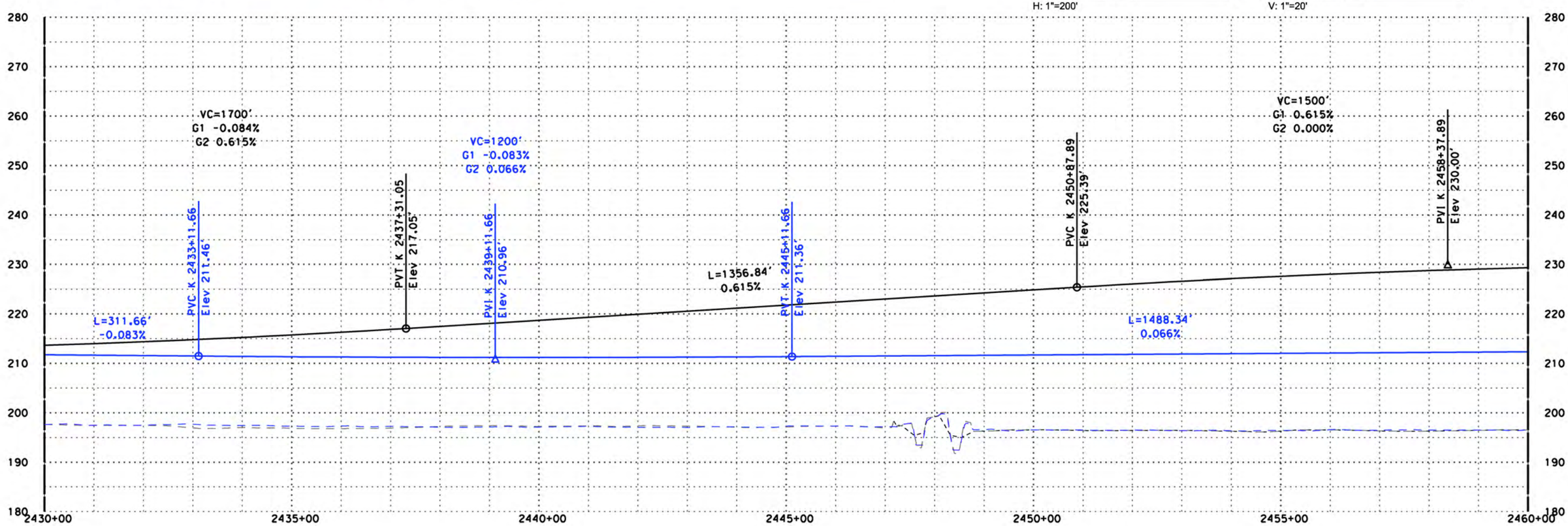


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"K4" LINE

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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2430+00.00 TO K 2460+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1065
SCALE	AS SHOWN
SHEET NO.	

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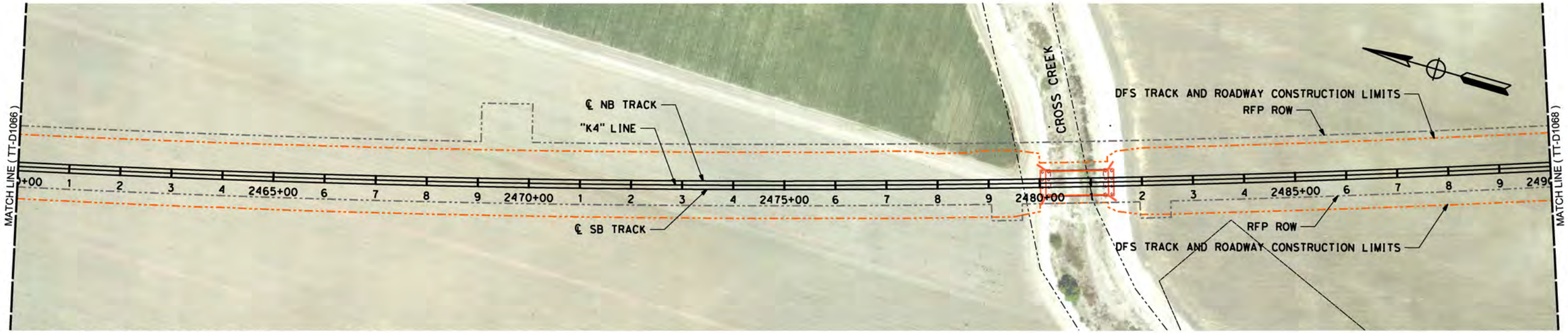
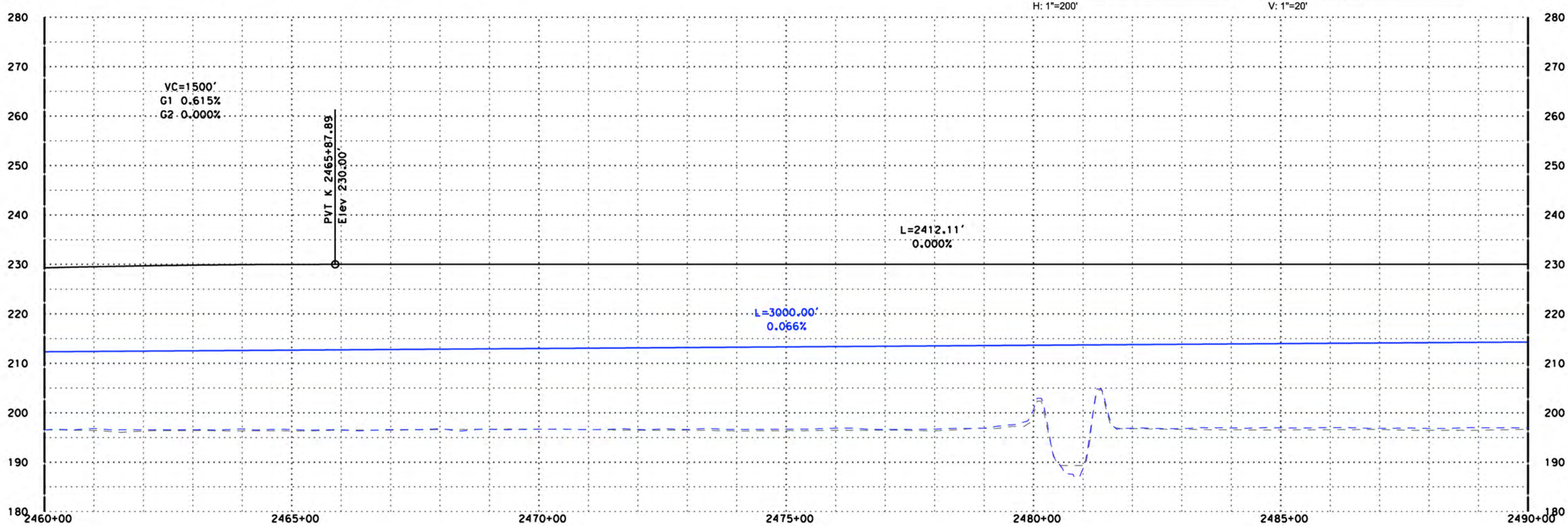


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"K4" LINE

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2460+00.00 TO K 2490+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1067
SCALE AS SHOWN
SHEET NO.

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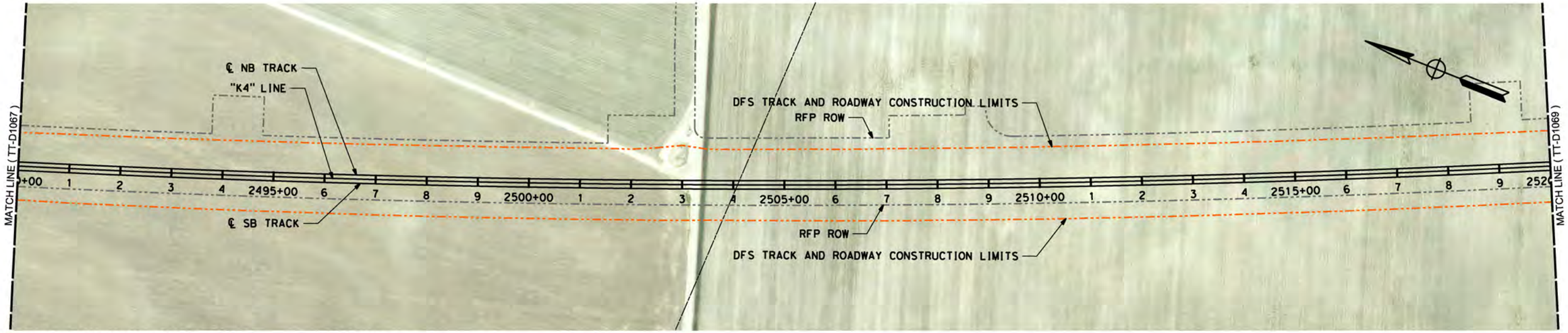
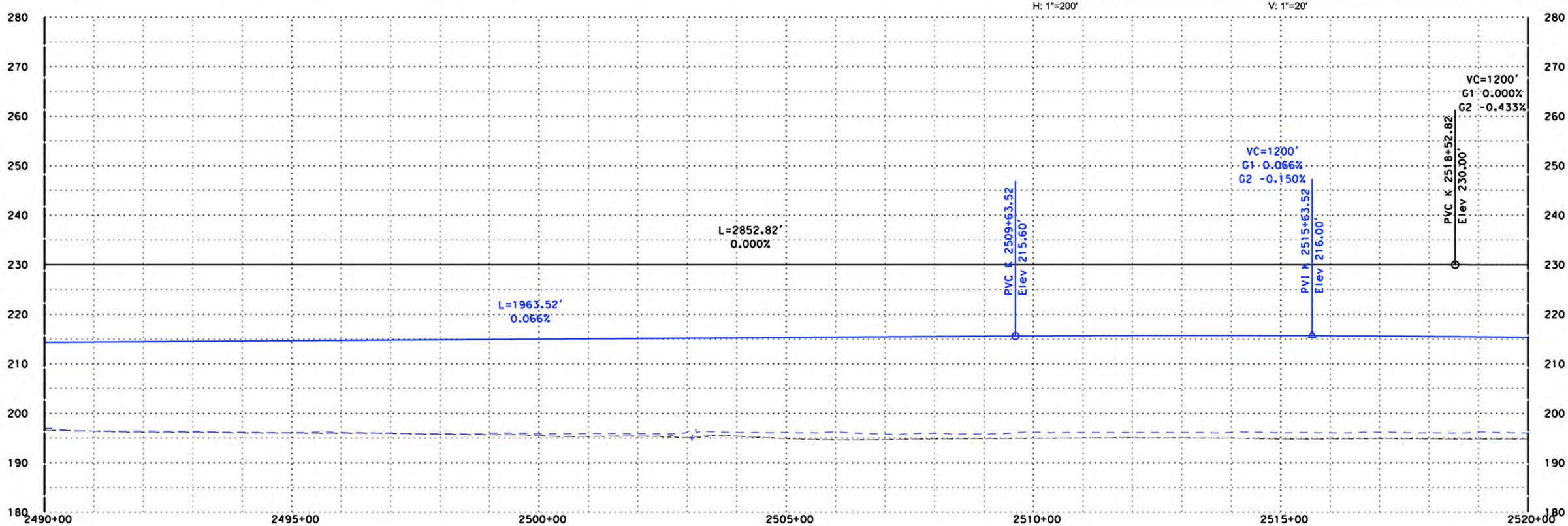


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"K4" LINE

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DESIGNED BY	B. Kidd
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2490+00.00 TO K 2520+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1068
SCALE	AS SHOWN
SHEET NO.	

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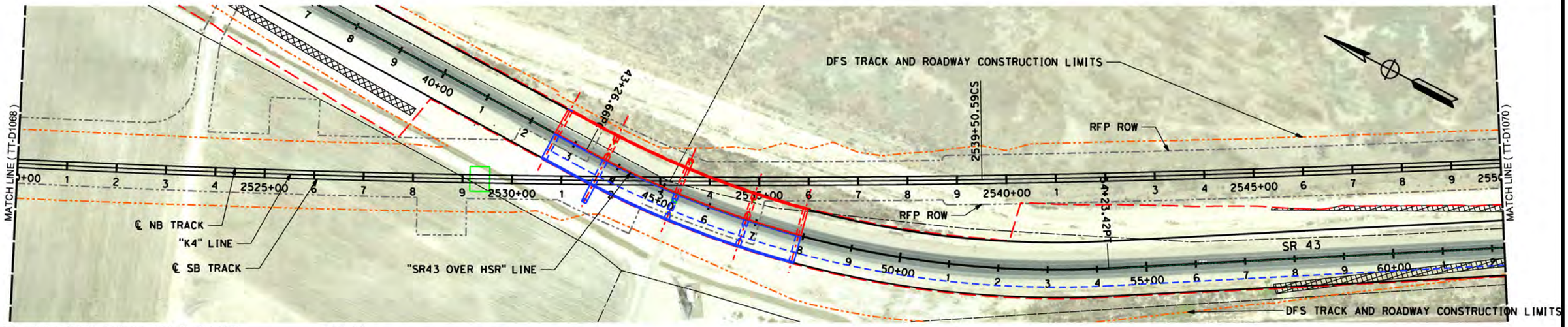
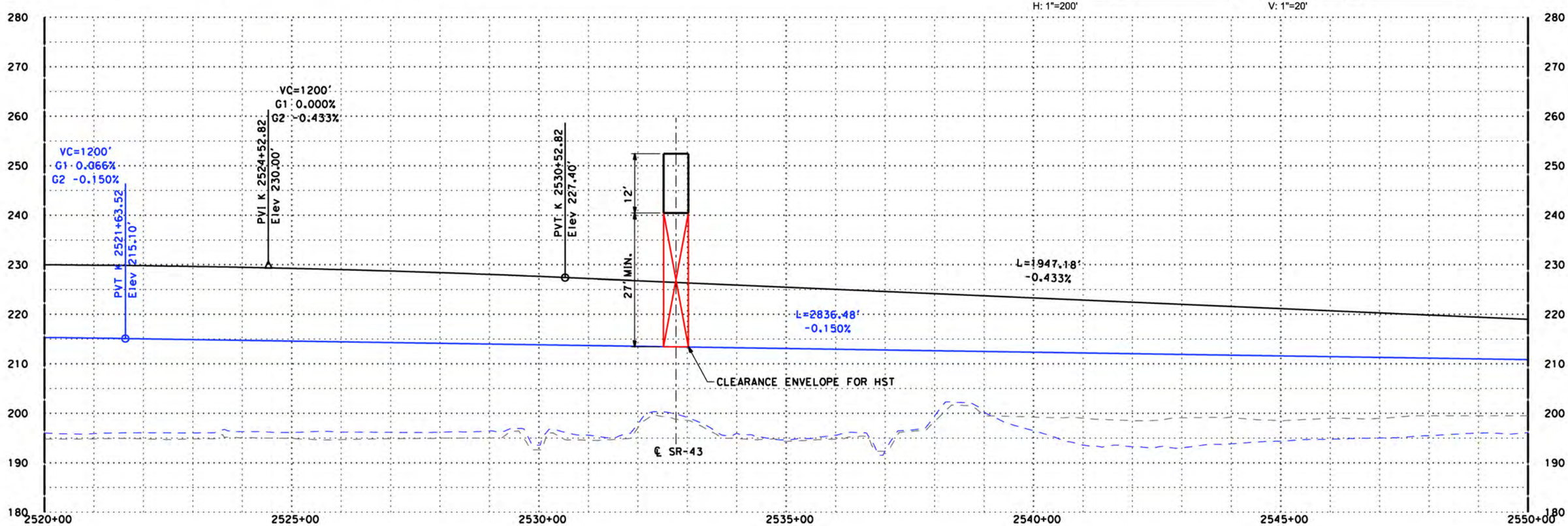


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"K4" LINE

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DESIGNED BY	B. Kidd
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

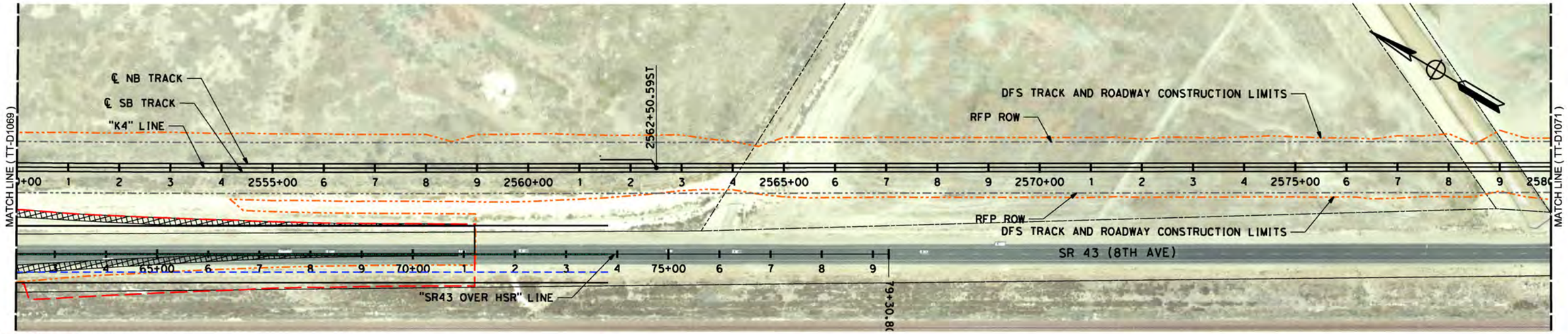
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2520+00.00 TO K 2550+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1069
SCALE	AS SHOWN
SHEET NO.	

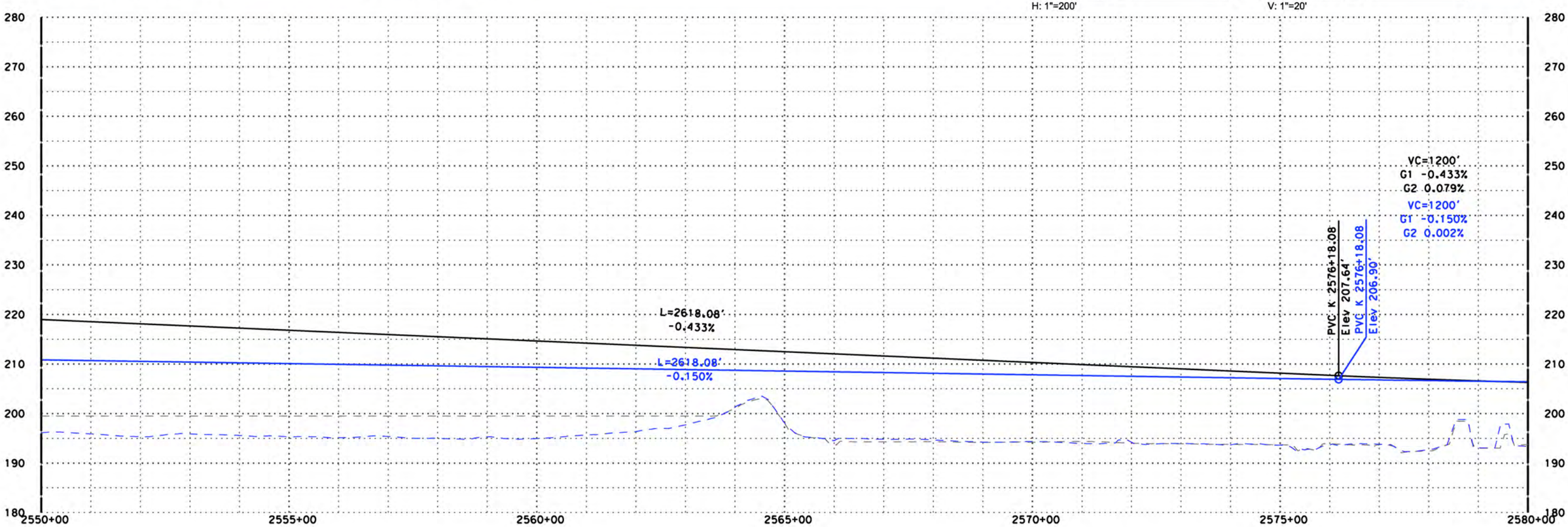
10/13/2014 9:40:55 PM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\barneypt\d0168034\FB-SEG4-K4_TT-D1069.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"K4" LINE

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DESIGNED BY	B. Kidd
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

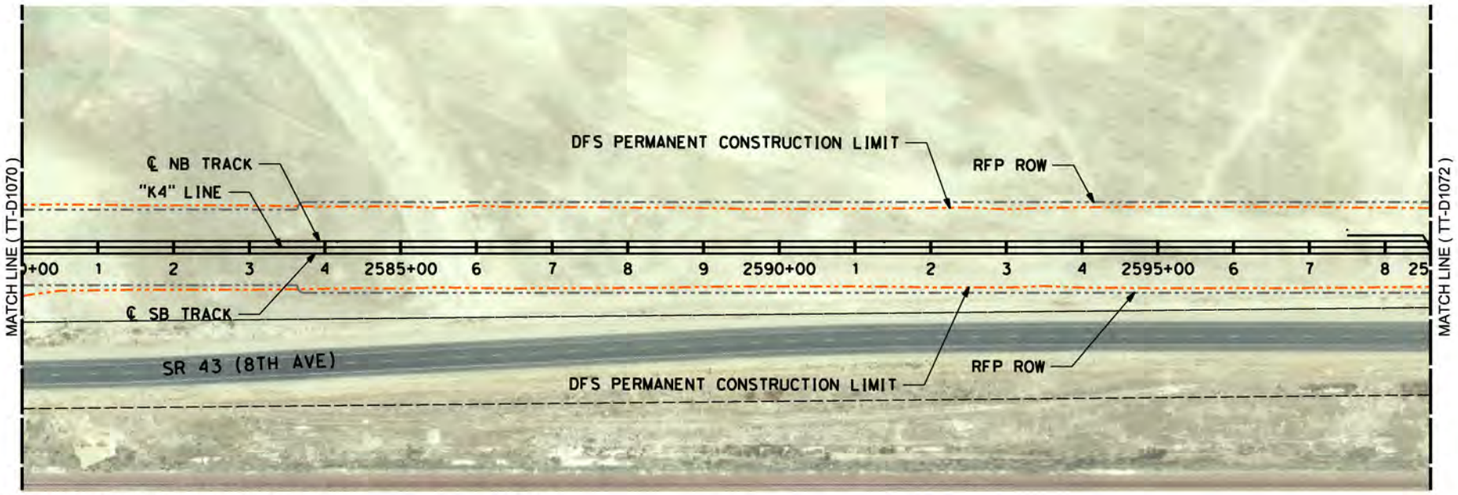
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

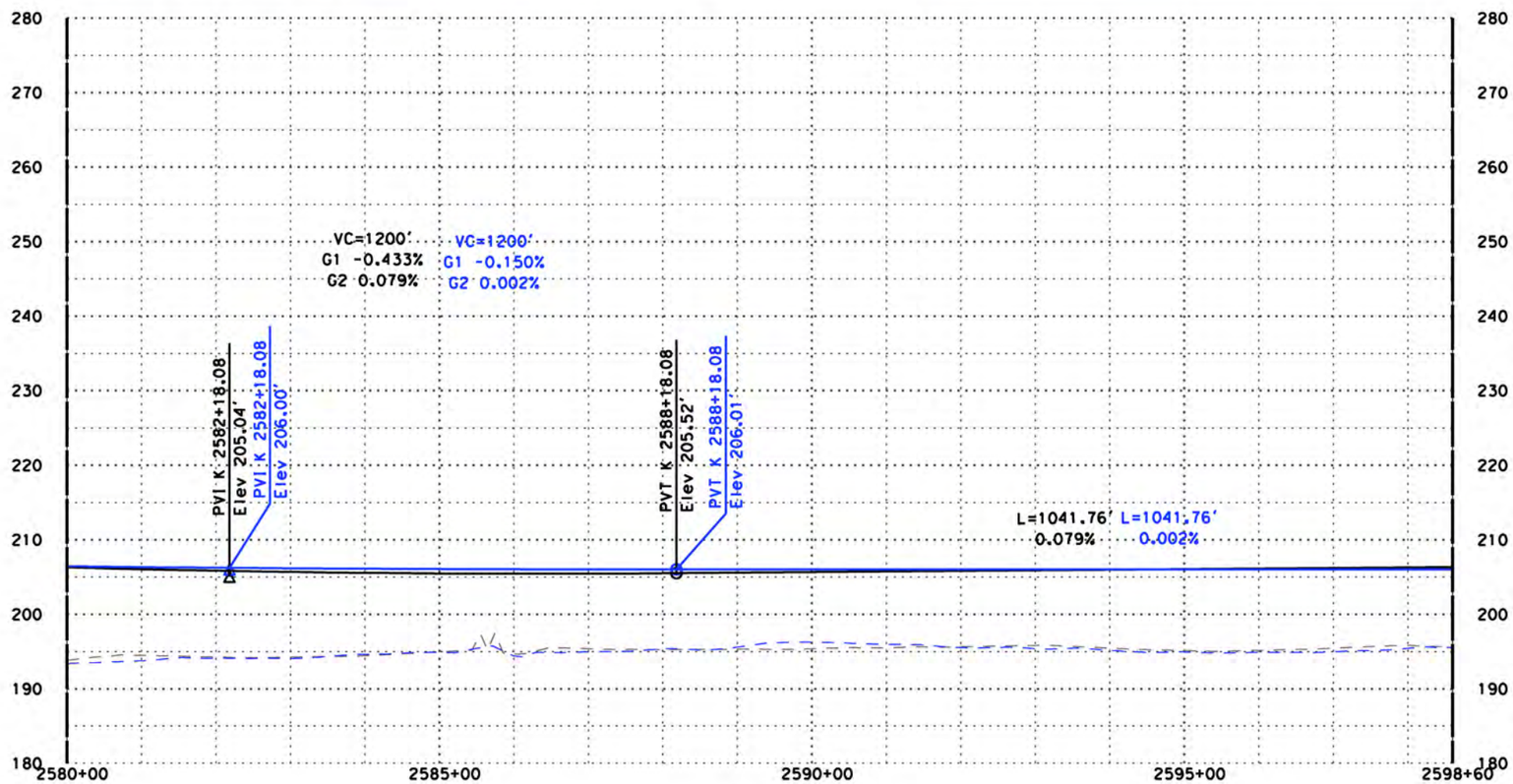
PLAN AND PROFILE
K 2550+00.00 TO K 2580+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1070
SCALE	AS SHOWN
SHEET NO.	

10/13/2014 3:41:49 PM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\barneypr\d0168034\FB-SEG4-K4_TT-D1070.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) ——— RFP OG - - - - - - - - - - - - - - - -
PROPOSED OPTIMIZED PROFILE ——— OG ALONG TRACK CL (APPROX) - - - - - - - -



"K4" LINE

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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

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NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT K4

PLAN AND PROFILE
K 2580+00.00 TO K 2598+59.84

CONTRACT NO. HSR 06-0003
DRAWING NO. D1071
SCALE AS SHOWN
SHEET NO.

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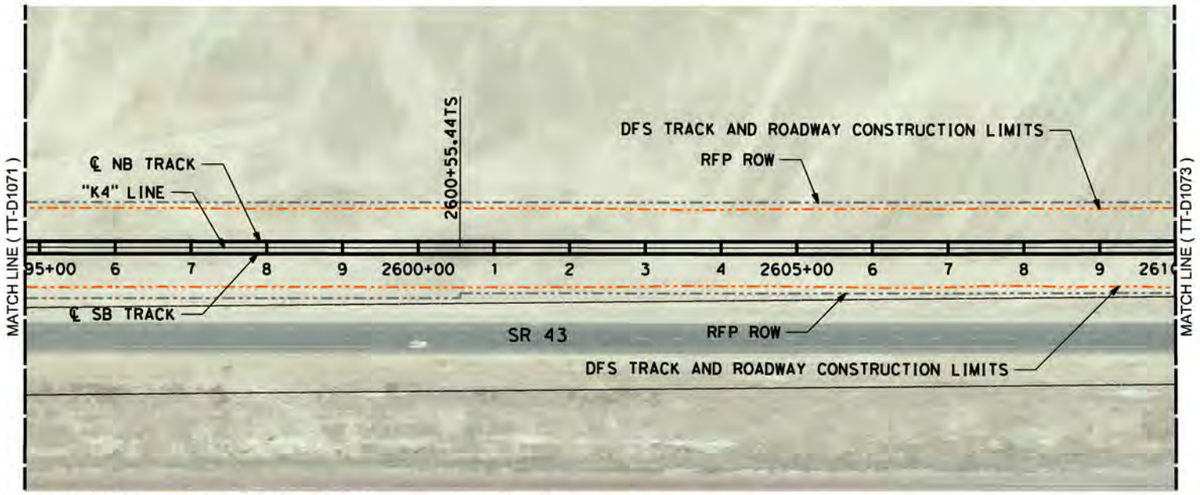
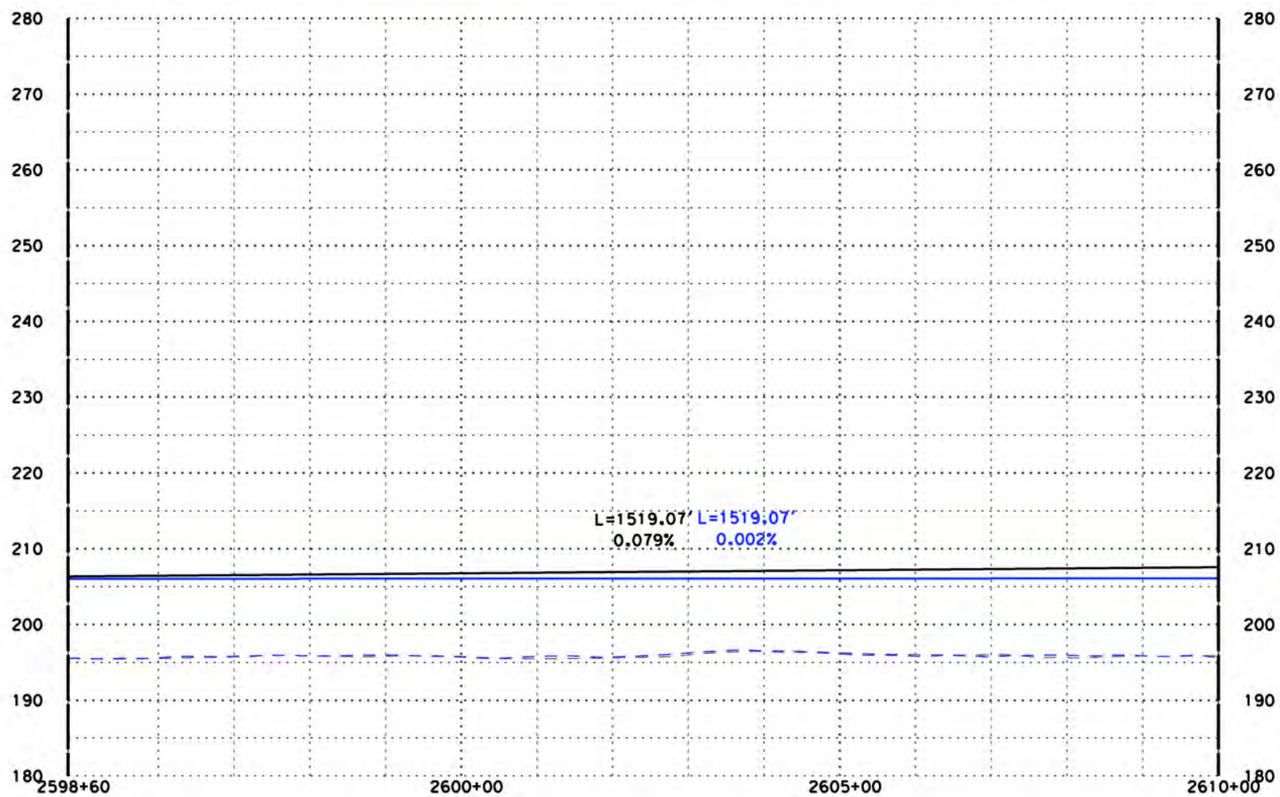


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG - - - - - - - - - - - - - - - - - -
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX) - - - - - - - - - - - -

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"C2" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE DATE 2014

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

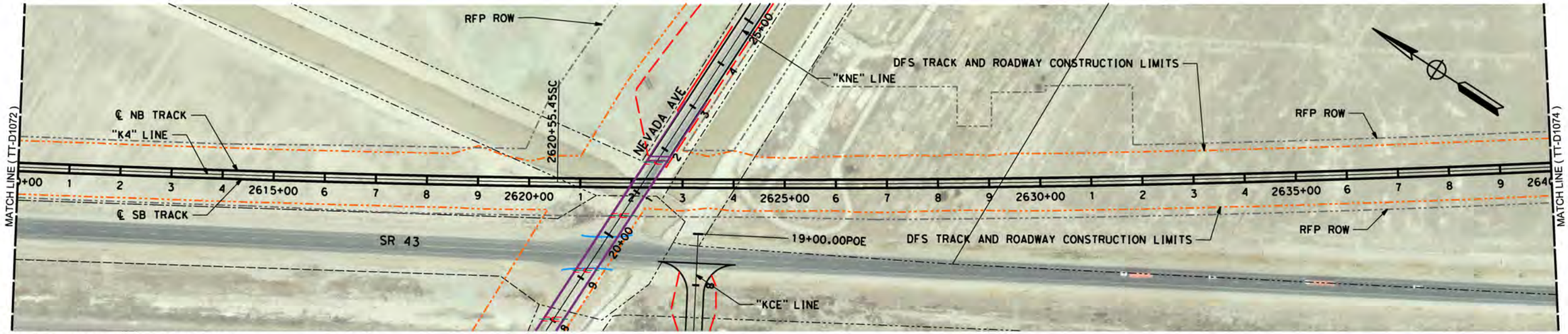
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

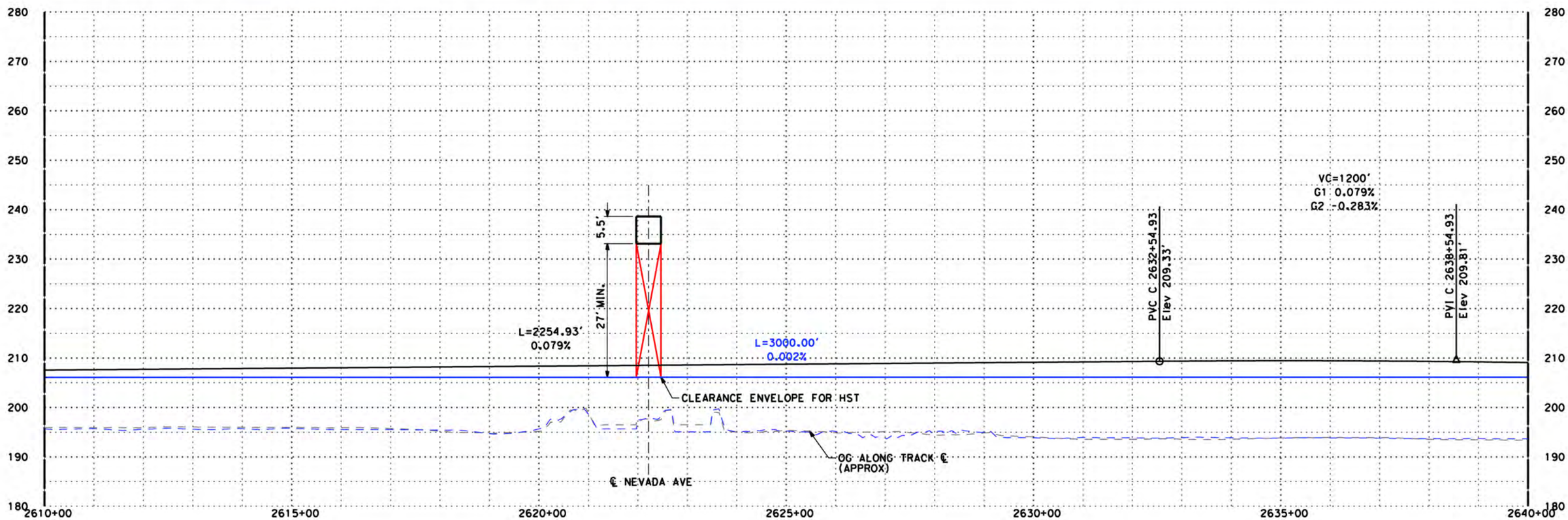
PLAN AND PROFILE
K 2598+59.84 TO C 2610+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1072
SCALE AS SHOWN
SHEET NO.

10/14/2014 11:16:28 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG5-C2_TT-D1072.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) ——— RFP OG - - - - - - - - - -
PROPOSED OPTIMIZED PROFILE ——— OG ALONG TRACK CL (APPROX) - - - - - -



"C2" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 2610+00.00 TO C 2640+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1073
SCALE AS SHOWN
SHEET NO.

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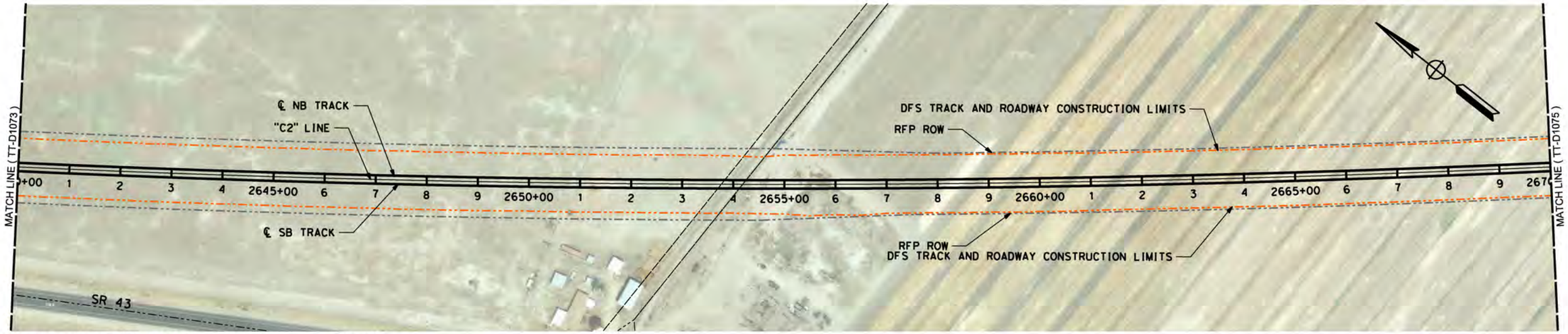
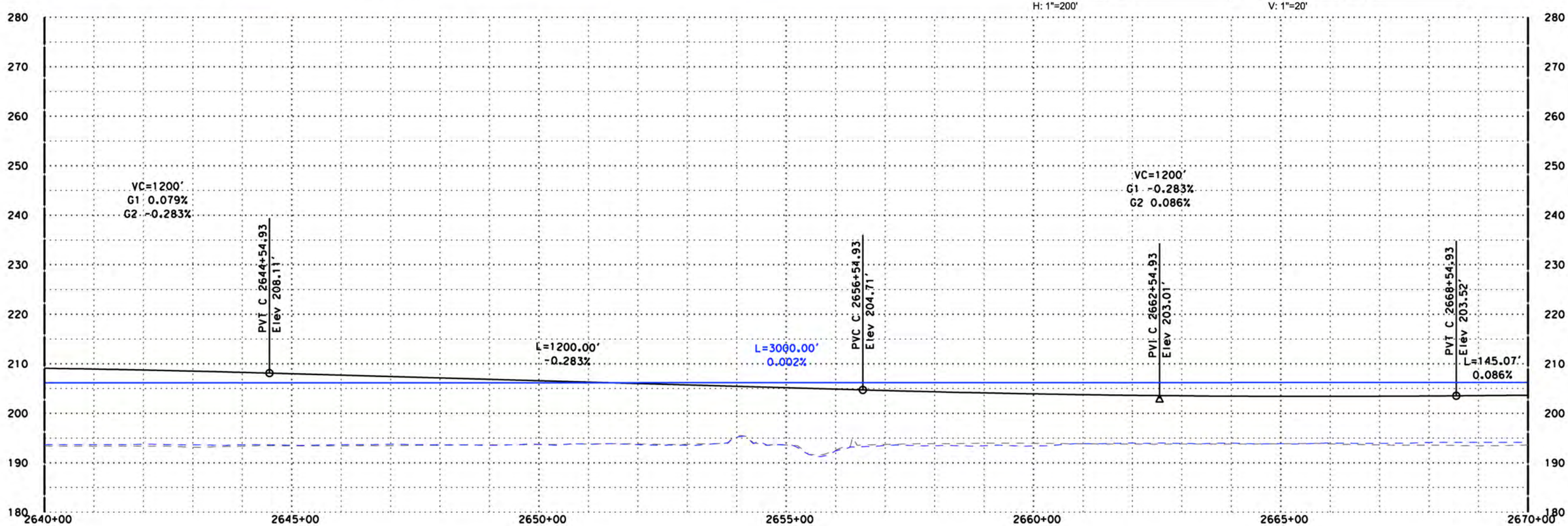


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"C2" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE $DATE$2014

RECORD SET 15% DESIGN SUBMISSION
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NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 2640+00.00 TO C 2670+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1074
SCALE AS SHOWN
SHEET NO.

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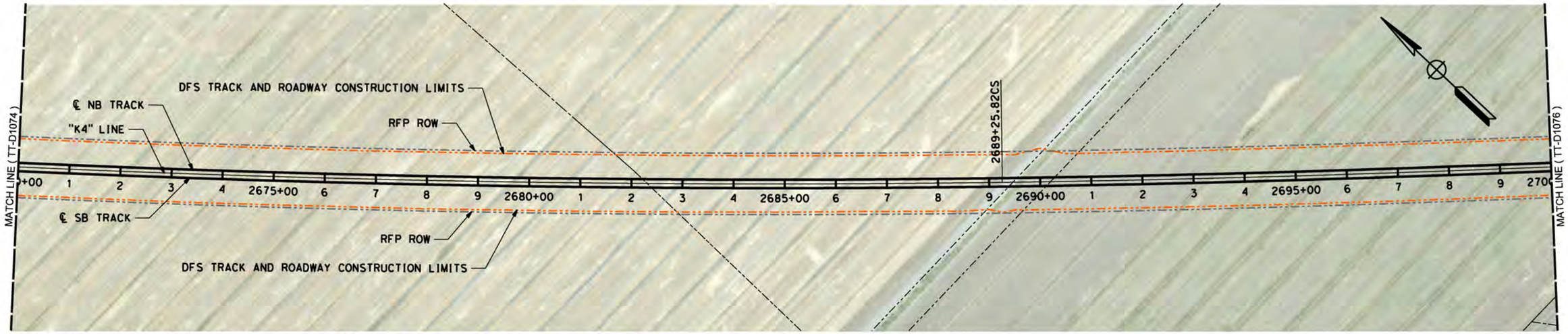
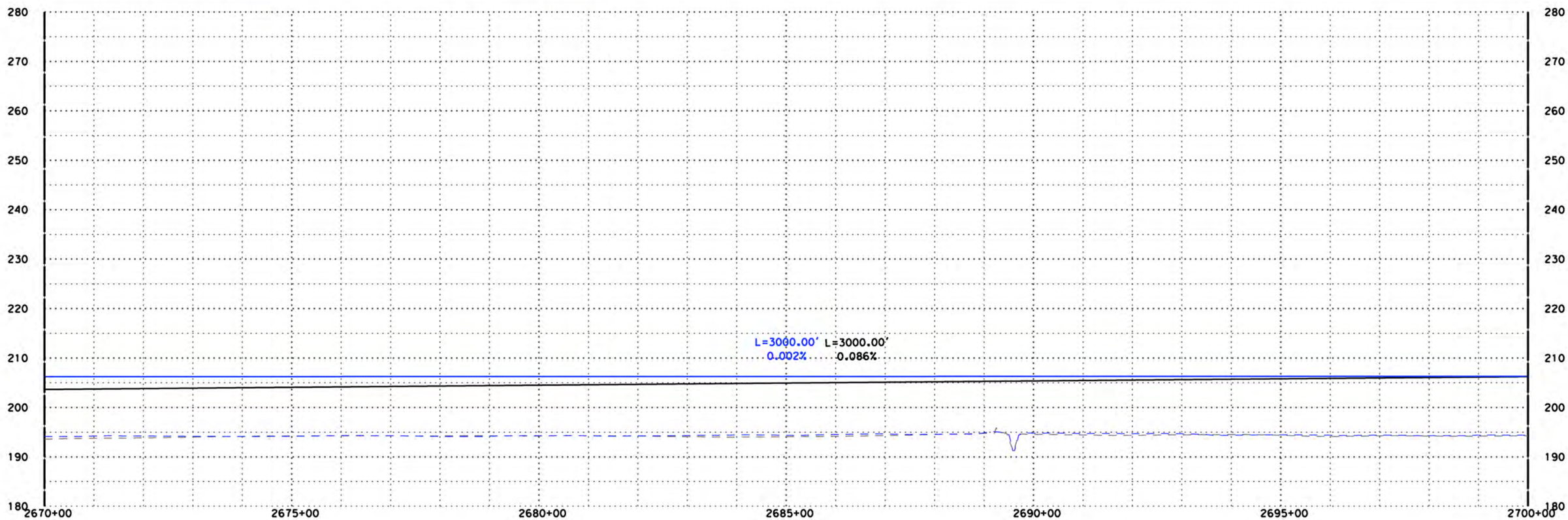


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) ——— RFP OG - - - - - - - - - - - - - - - - -
PROPOSED OPTIMIZED PROFILE ——— OG ALONG TRACK CL (APPROX) - - - - - - - -



"C2" LINE

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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE $DATE$2014

RECORD SET 15% DESIGN SUBMISSION
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DFS

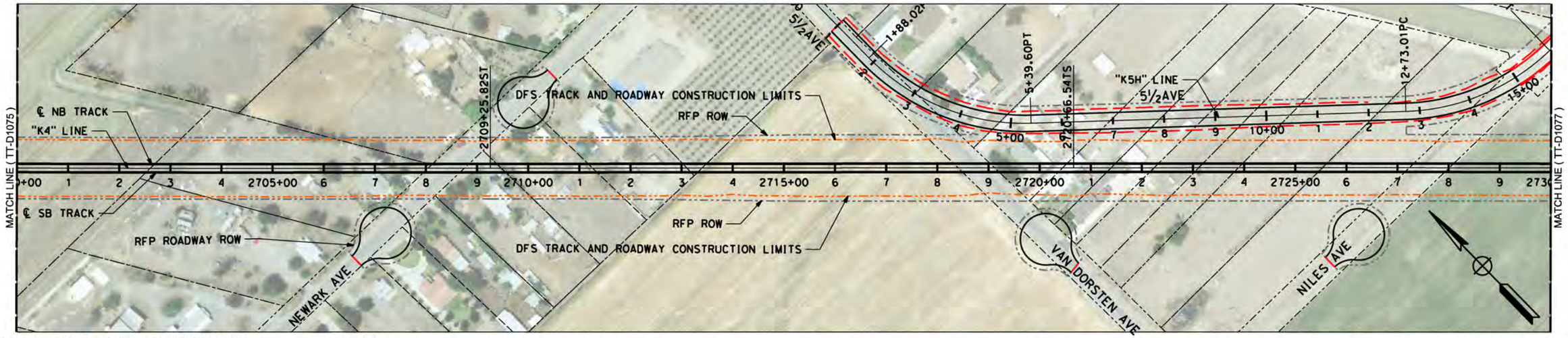
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 2670+00.00 TO C 2700+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1075
SCALE AS SHOWN
SHEET NO.

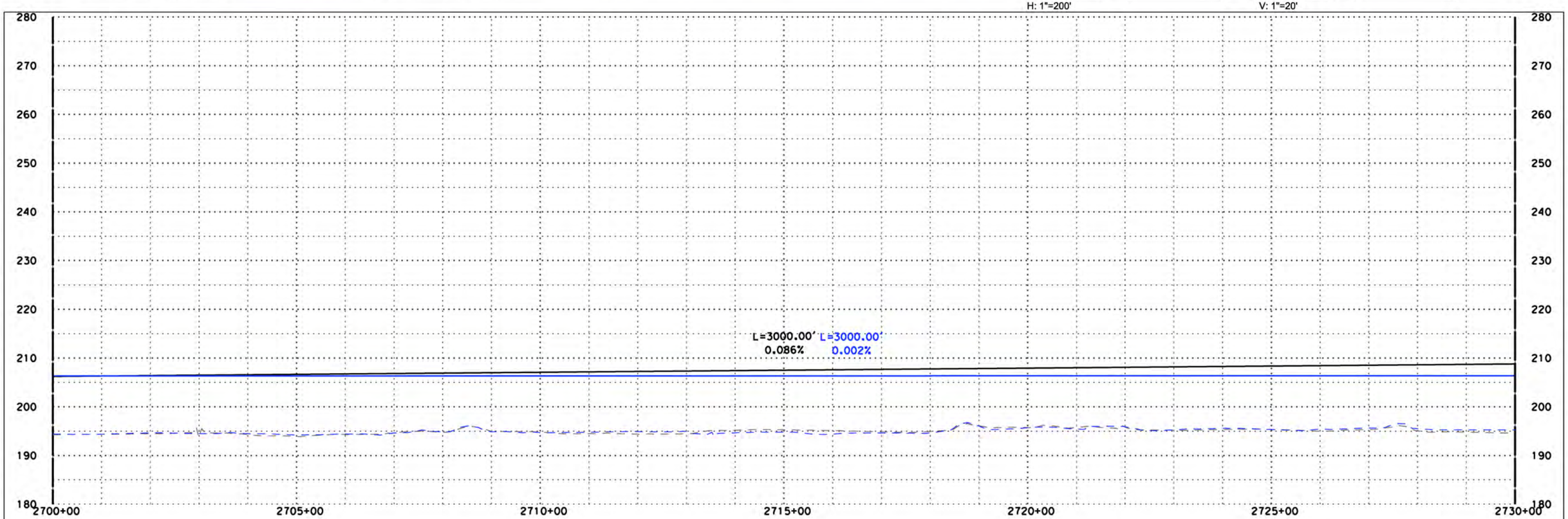
10/14/2014 11:18:39 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG5-C2_TT-D1075.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"C2" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
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NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 2700+00.00 TO C 2730+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1076
SCALE AS SHOWN
SHEET NO.

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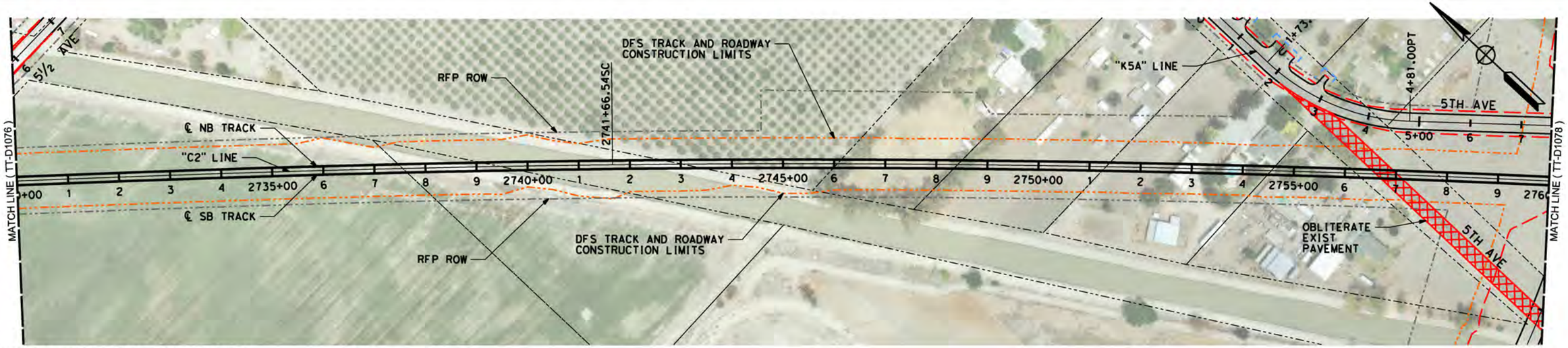
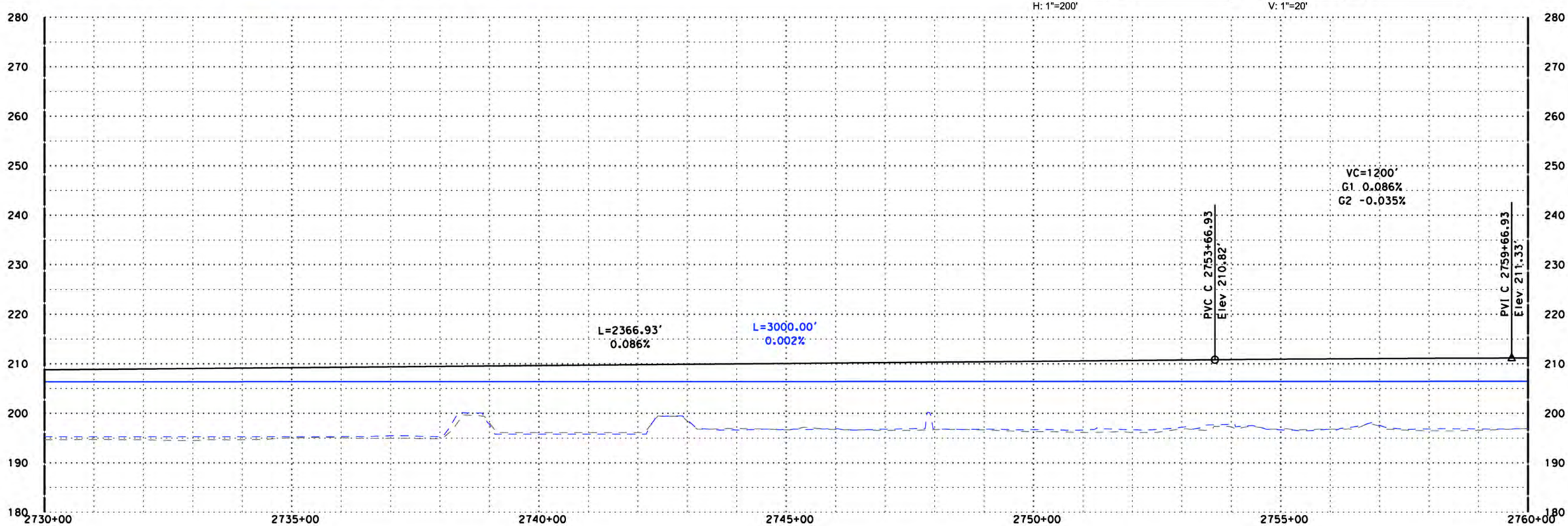


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"C2" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 2730+00.00 TO C 2760+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1077
SCALE AS SHOWN
SHEET NO.

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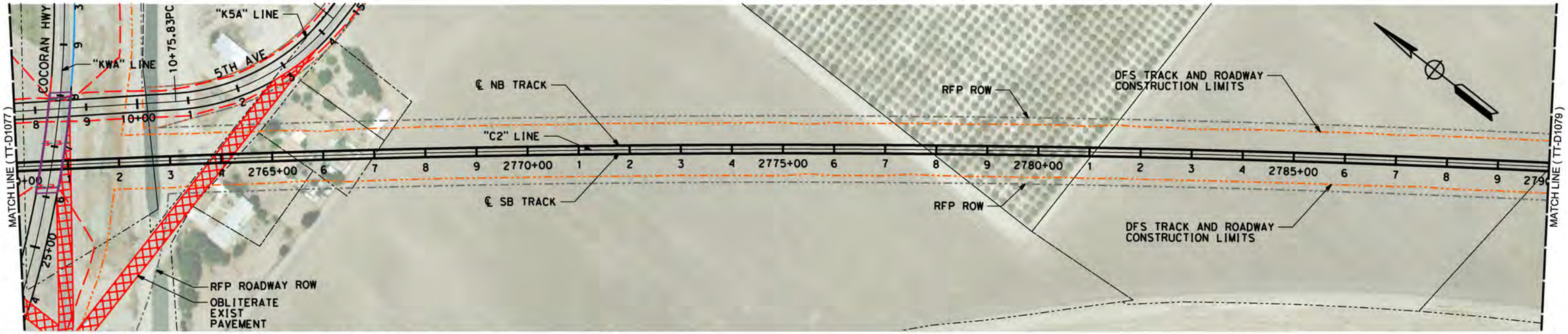
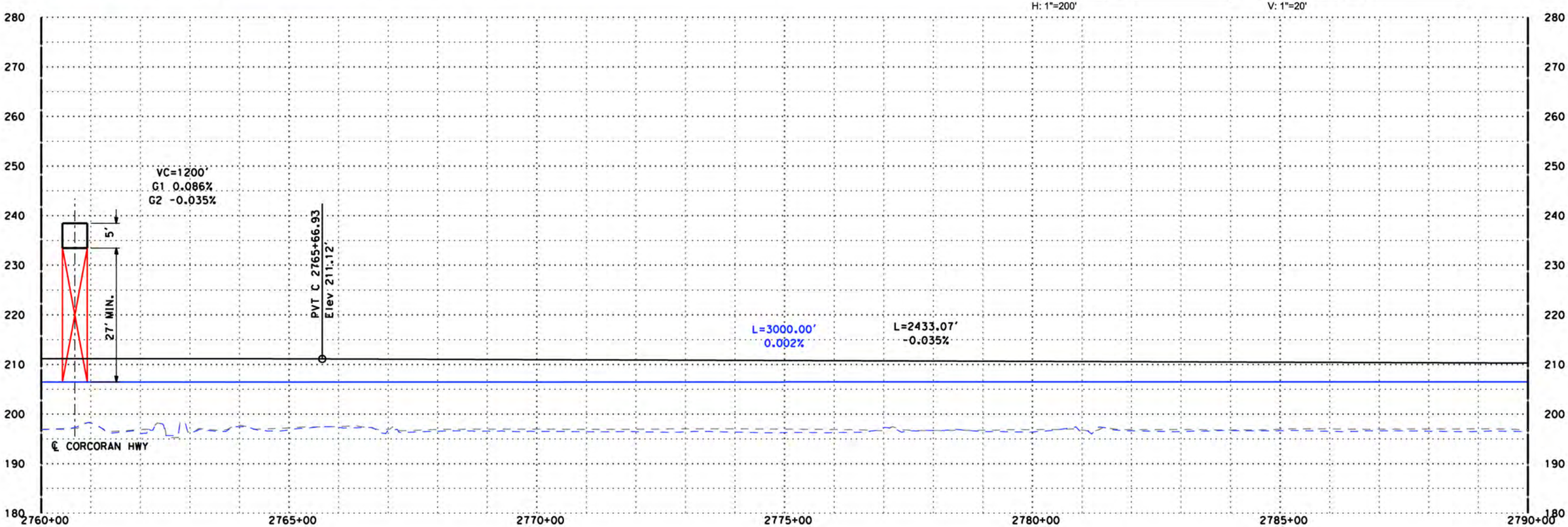


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) ——— RFP OG - - - - - - - - - -
PROPOSED OPTIMIZED PROFILE ——— OG ALONG TRACK CL (APPROX) - - - - - -

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"C2" LINE

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DESIGNED BY P. Borney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

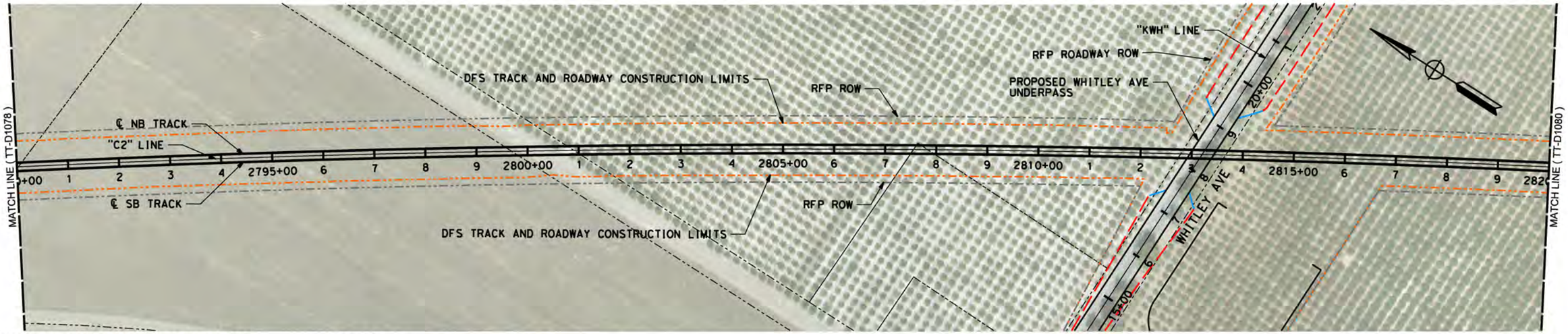
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 2760+00.00 TO C 2790+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1078
SCALE AS SHOWN
SHEET NO.

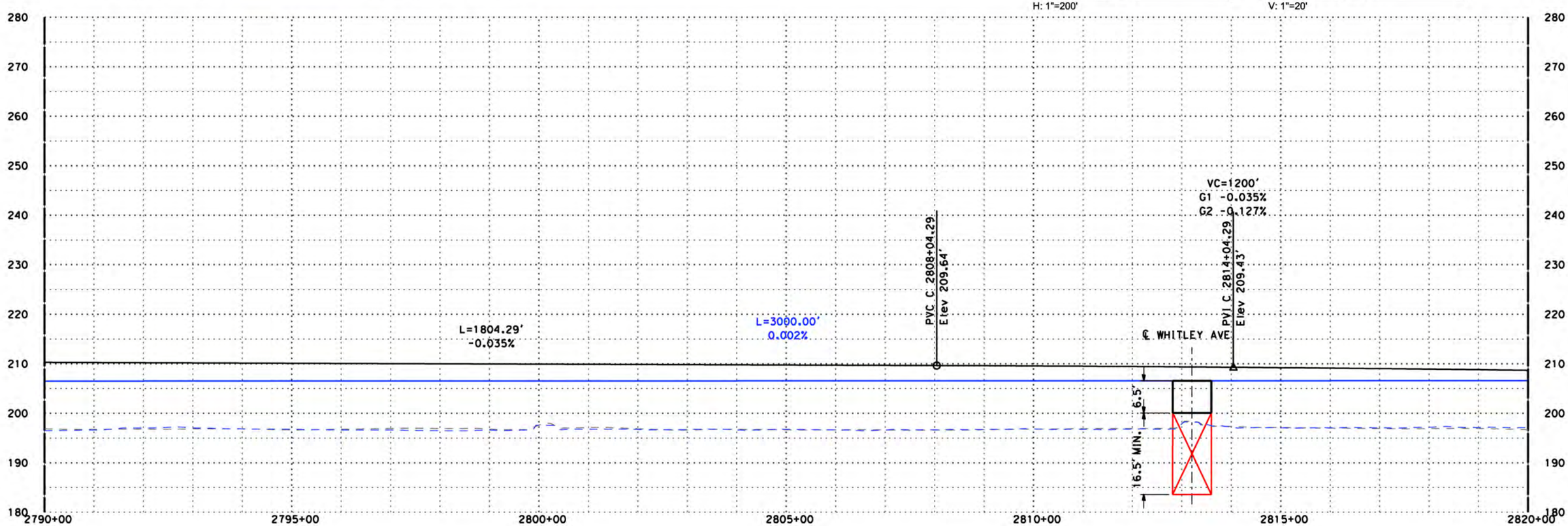
10/14/2014 11:21:15 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\parringtonsa\d0168034\FB-SEG5-C2_TT-D1078.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"C2" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE $DATE$2014

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 2790+00.00 TO C 2820+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1079
SCALE AS SHOWN
SHEET NO.

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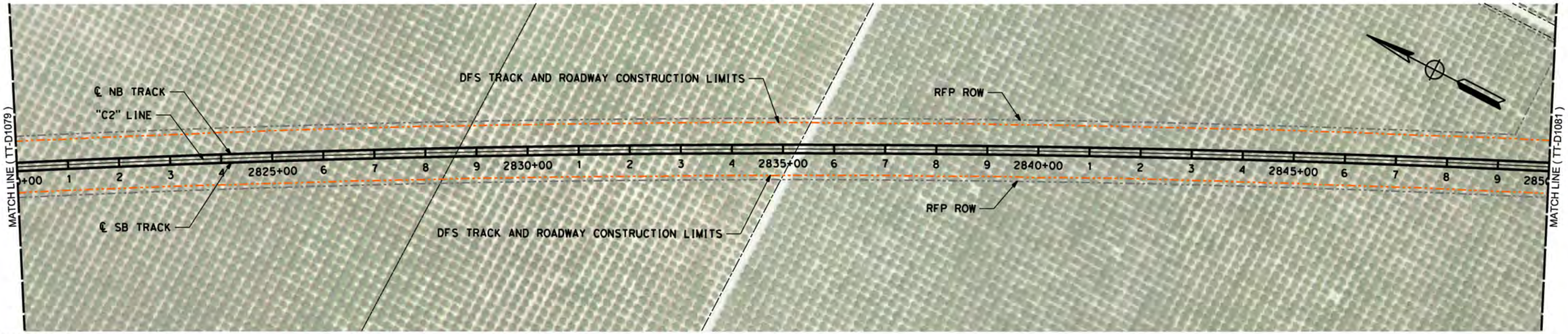
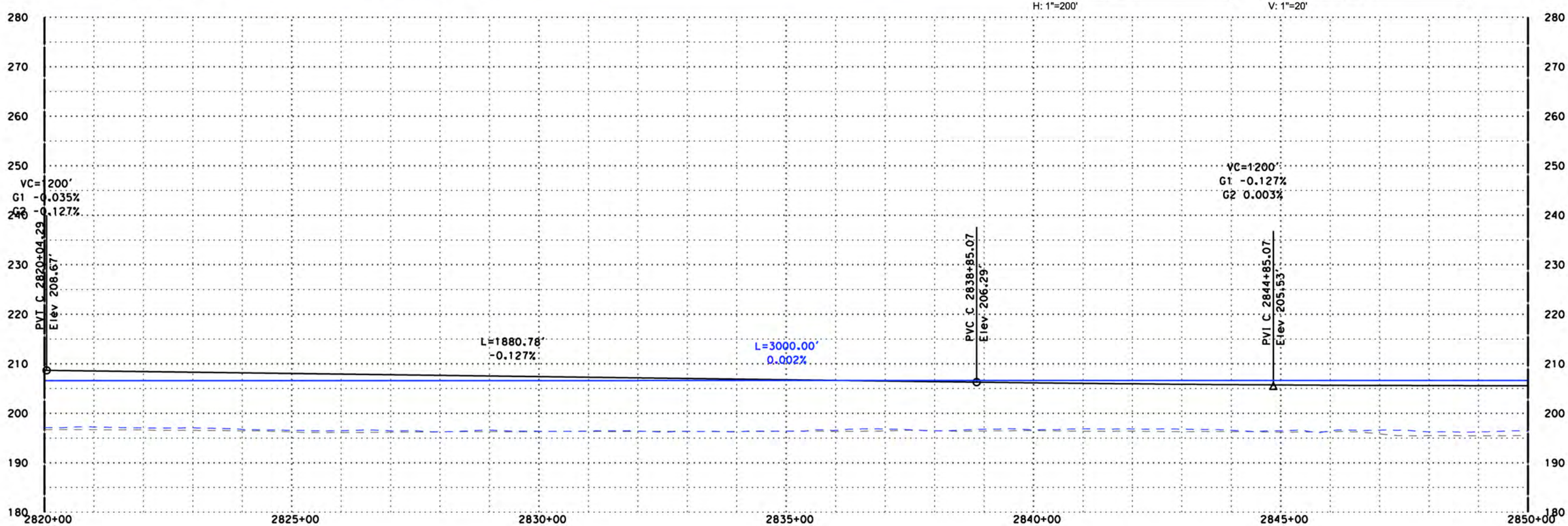


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"C2" LINE

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DFS

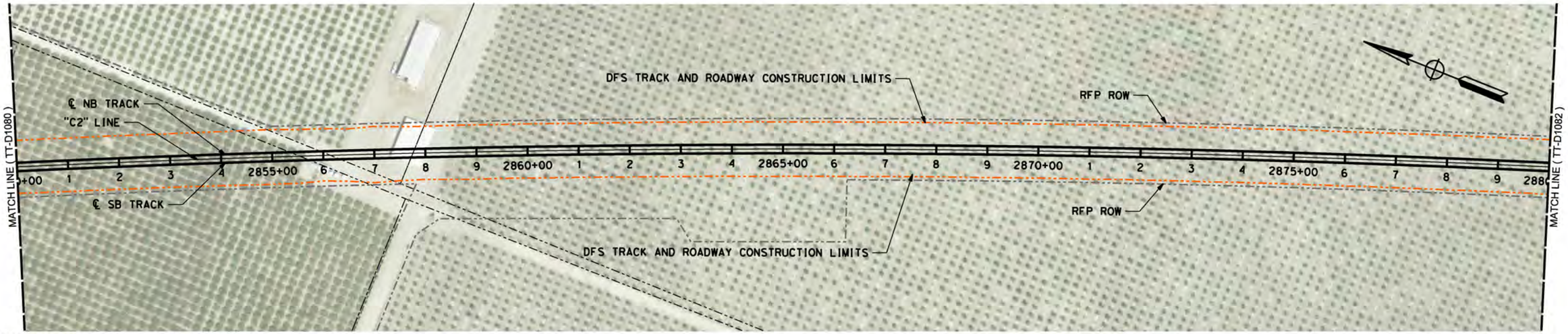
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 2820+00.00 TO C 2850+00.00

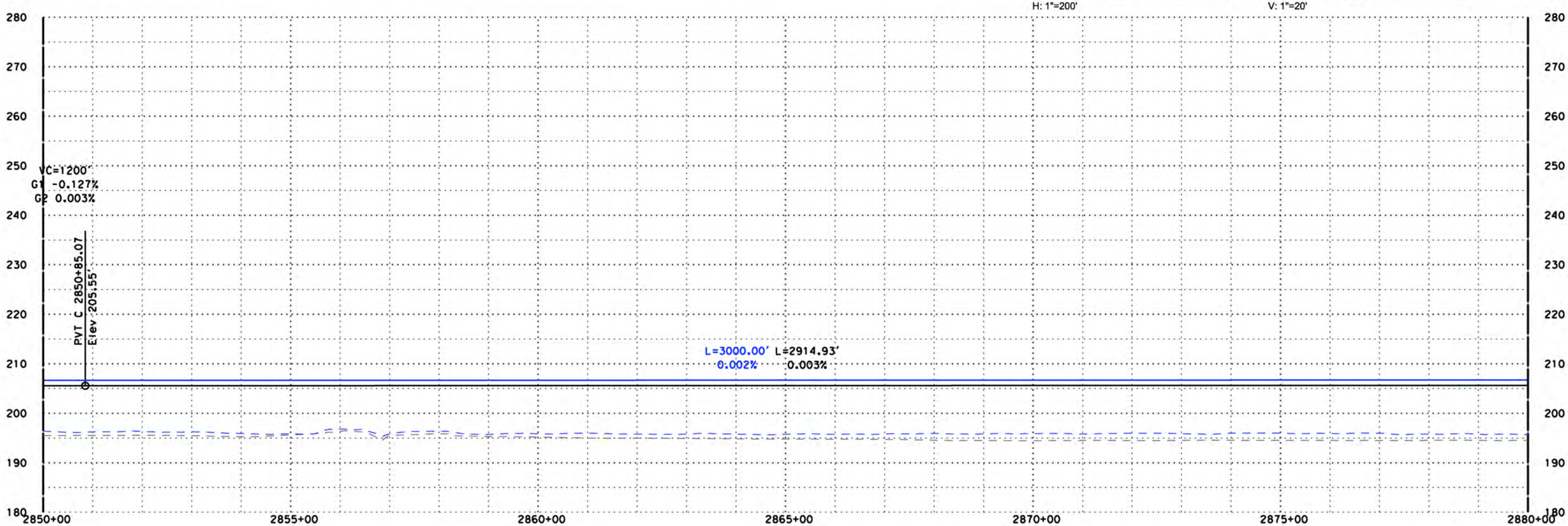
CONTRACT NO. HSR 06-0003
DRAWING NO. D1080
SCALE AS SHOWN
SHEET NO.

10/14/2014 11:22:48 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG5-C2_TT-D1080.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"C2" LINE

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CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

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-
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DFS

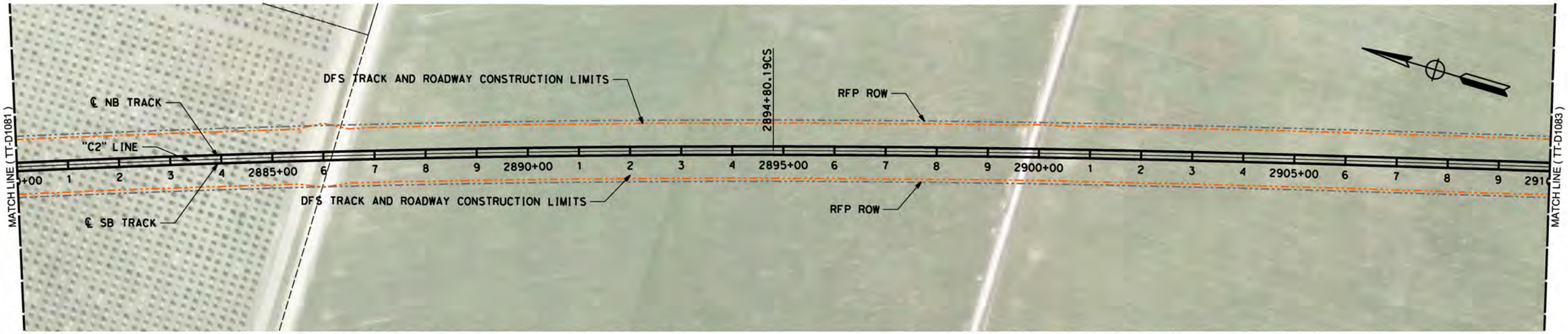
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 2850+00.00 TO C 2880+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1081
SCALE	AS SHOWN
SHEET NO.	

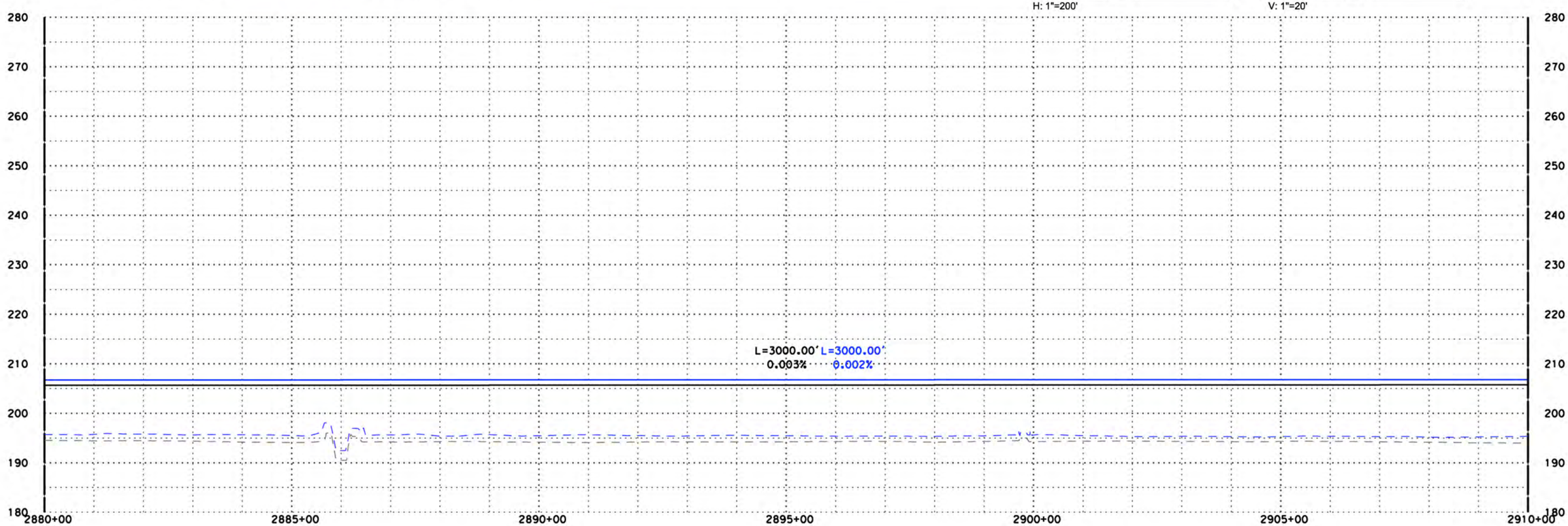
10/14/2014 11:23:33 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG5-C2_TT-D1081.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"C2" LINE

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 2880+00.00 TO C 2910+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1082
SCALE AS SHOWN
SHEET NO.

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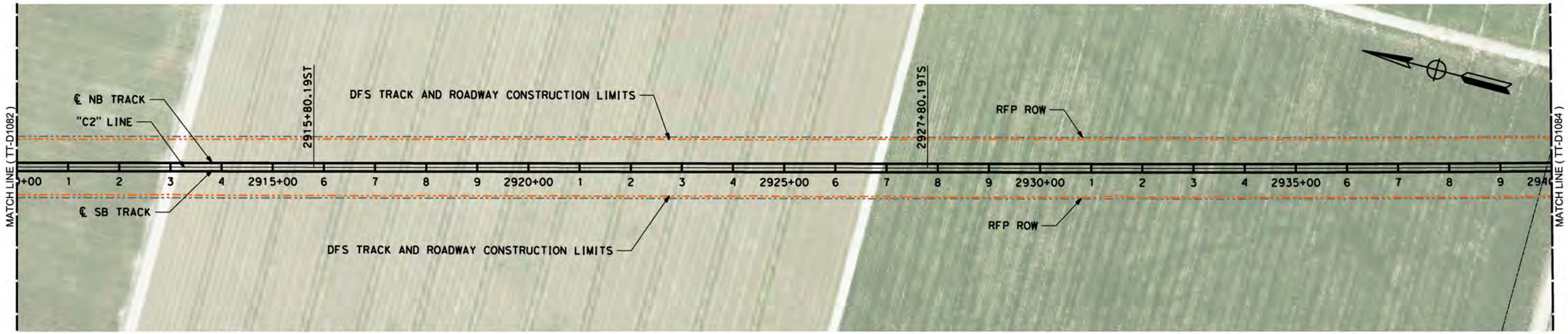
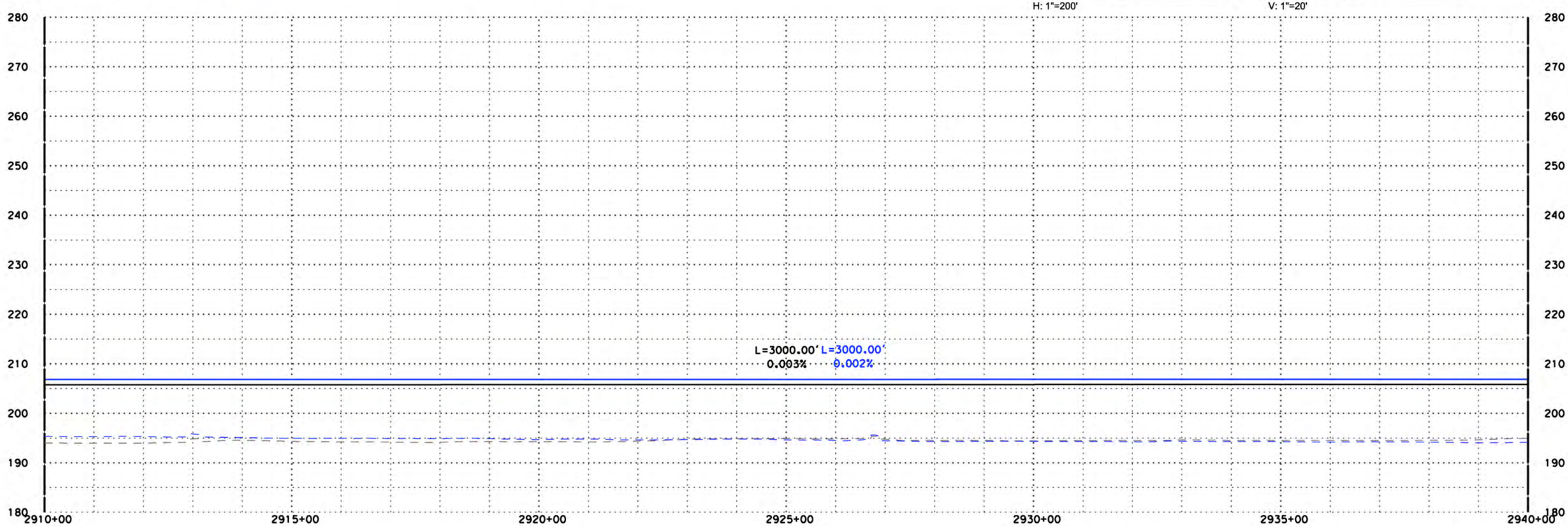


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"C2" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 2910+00.00 TO C 2940+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1083
SCALE AS SHOWN
SHEET NO.

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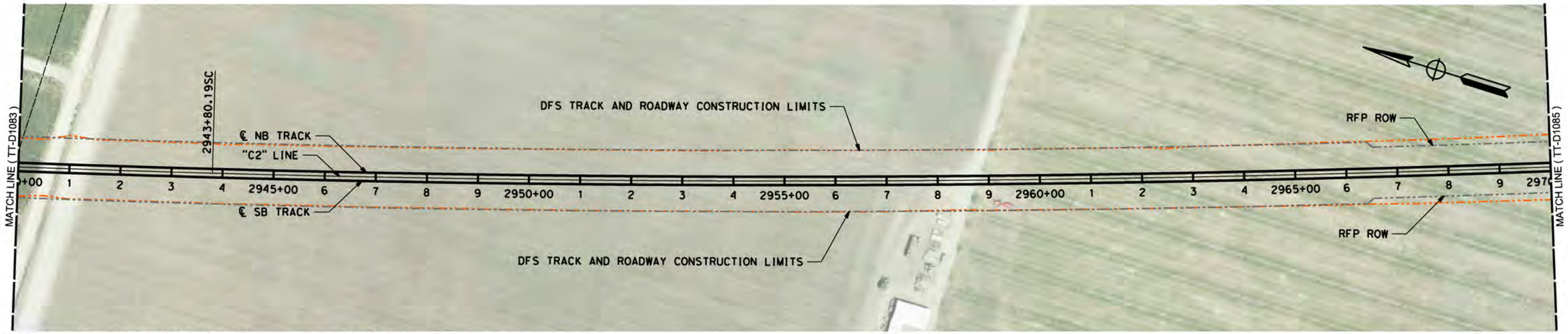
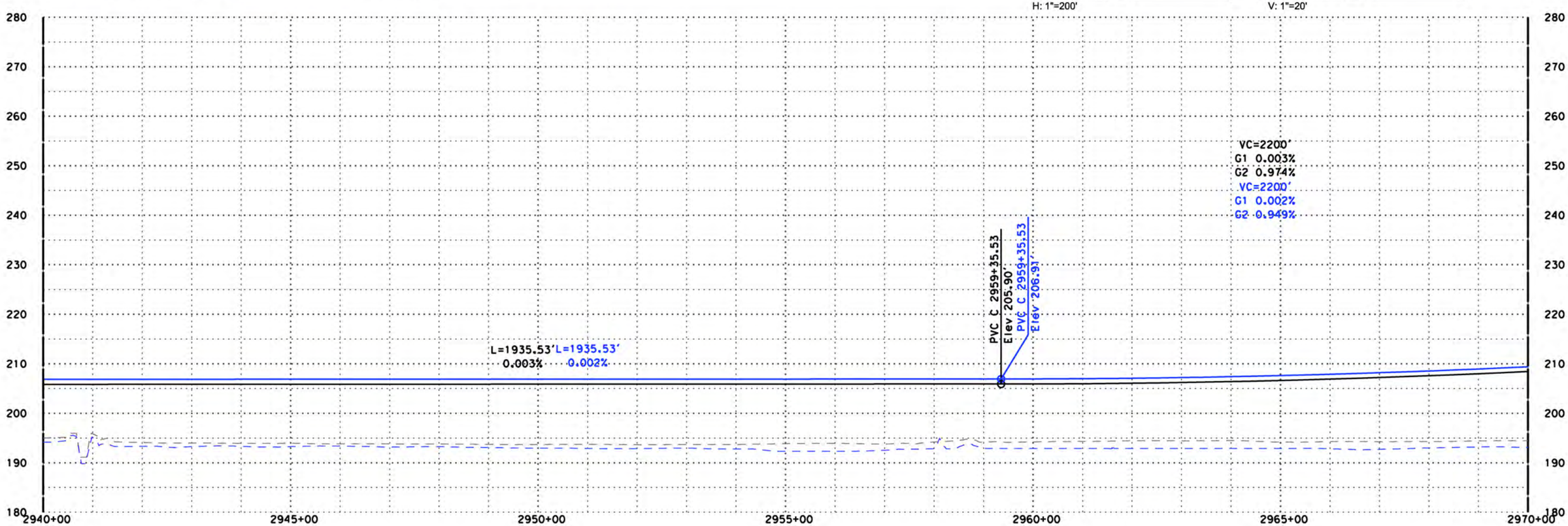


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"C2" LINE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 2940+00.00 TO C 2970+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1084
SCALE AS SHOWN
SHEET NO.

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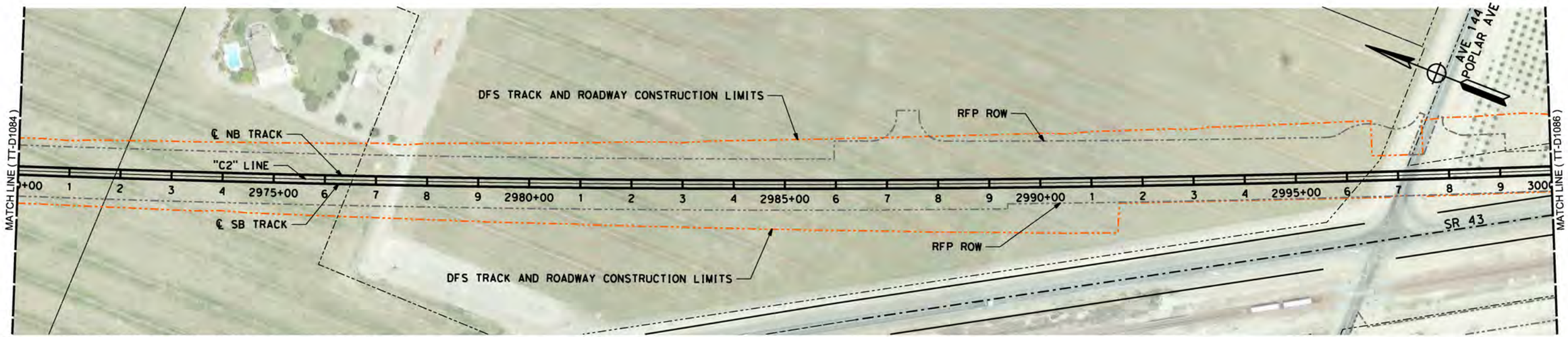
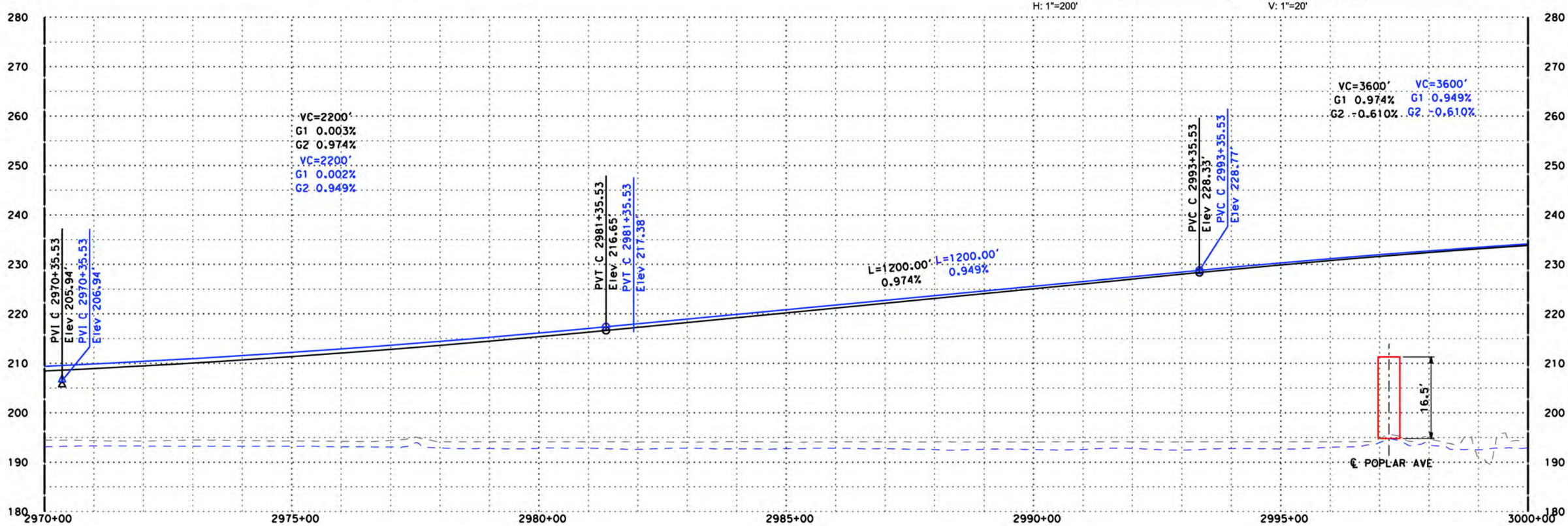


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"C2" LINE

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DFS

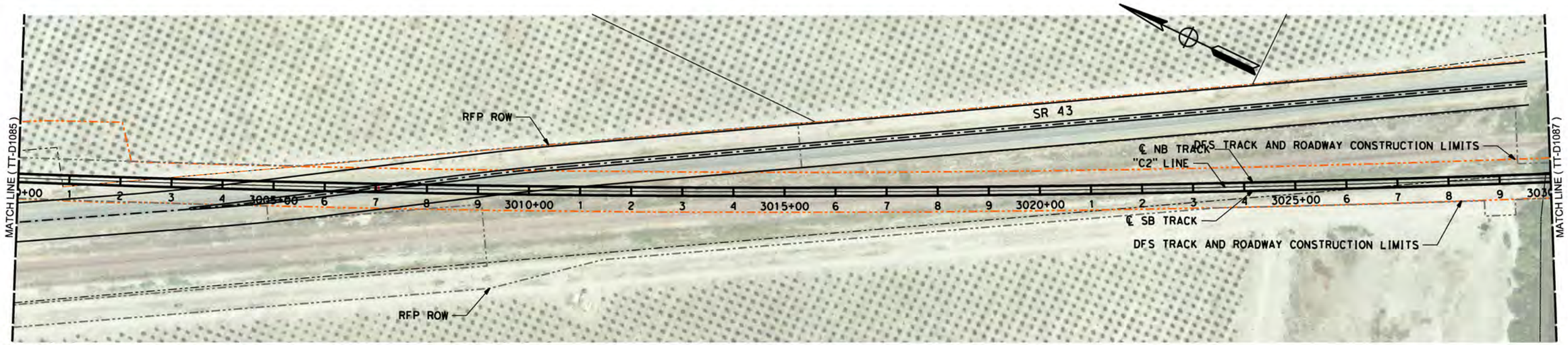
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 2970+00.00 TO C 3000+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1085
SCALE AS SHOWN
SHEET NO.

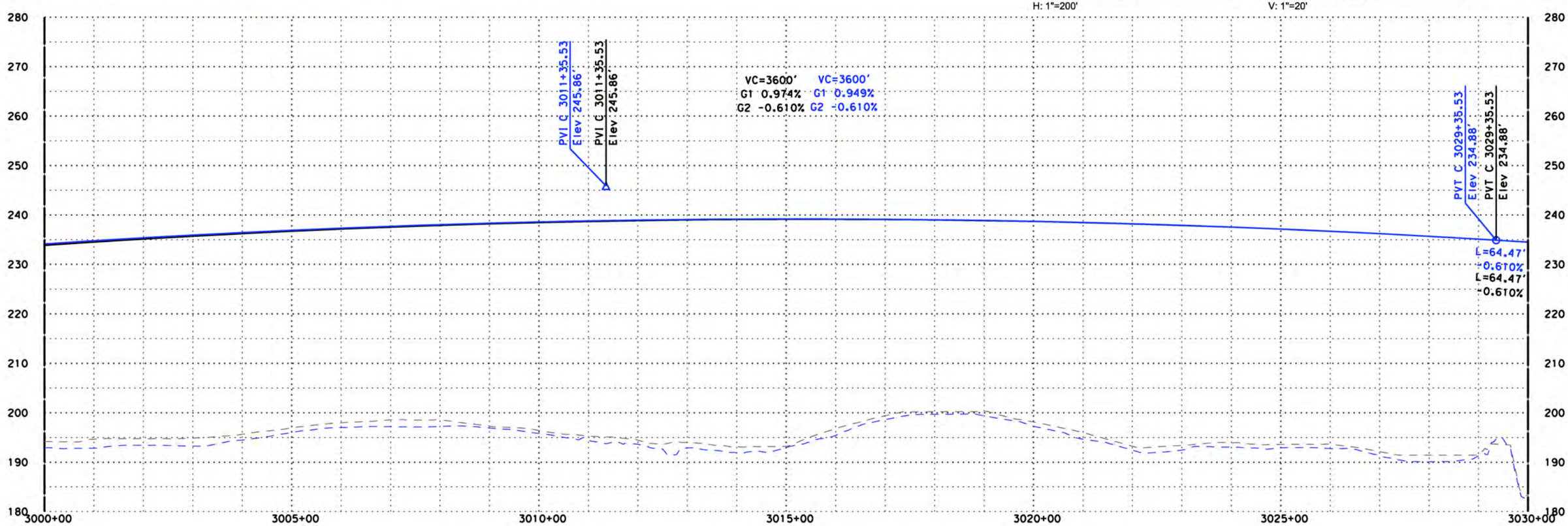
10/14/2014 11:26:38 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG5-C2_TT-D1085.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

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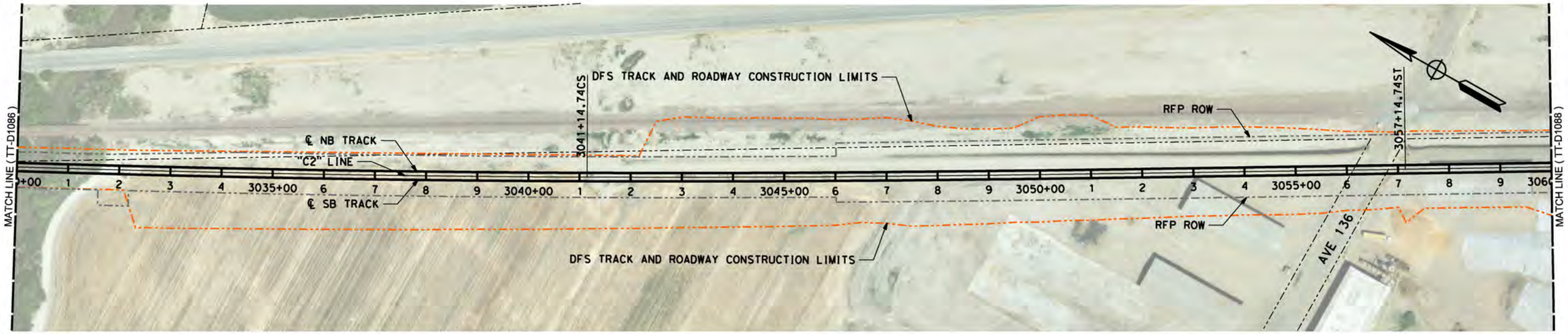
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 3000+00.00 TO C 3030+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1086
SCALE	AS SHOWN
SHEET NO.	

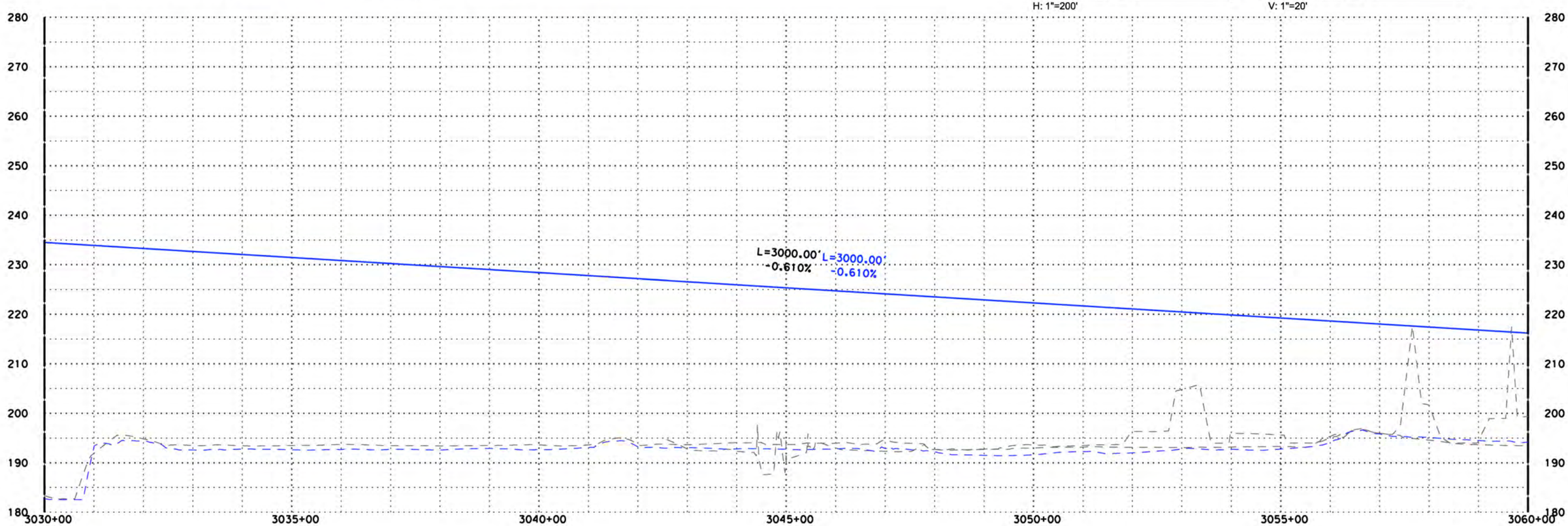
10/14/2014 11:27:22 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\noi\partingtonsa\d0168034\FB-SEG5-C2_TT-D1086.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"C2" LINE

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IN CHARGE R. Trevett
DATE 10/15/14

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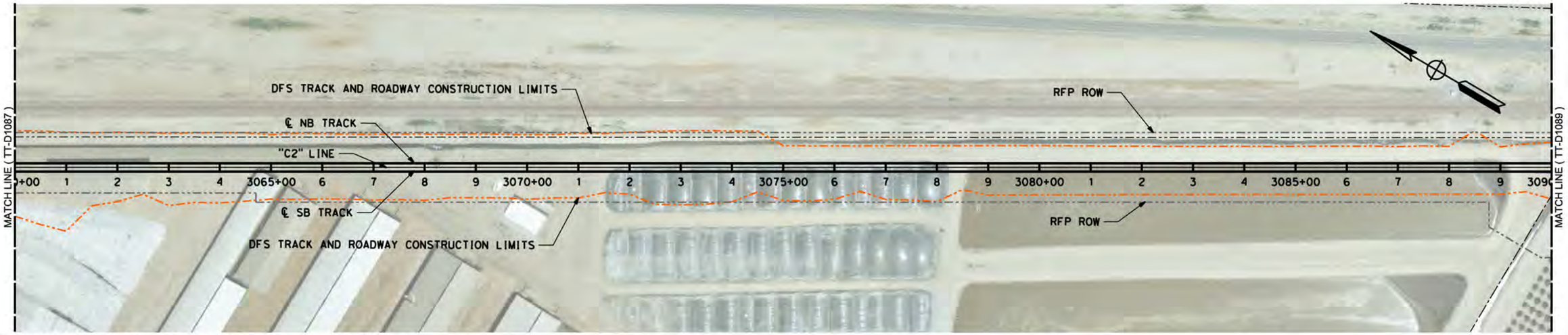
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 3030+00.00 TO C 3060+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1087
SCALE AS SHOWN
SHEET NO.

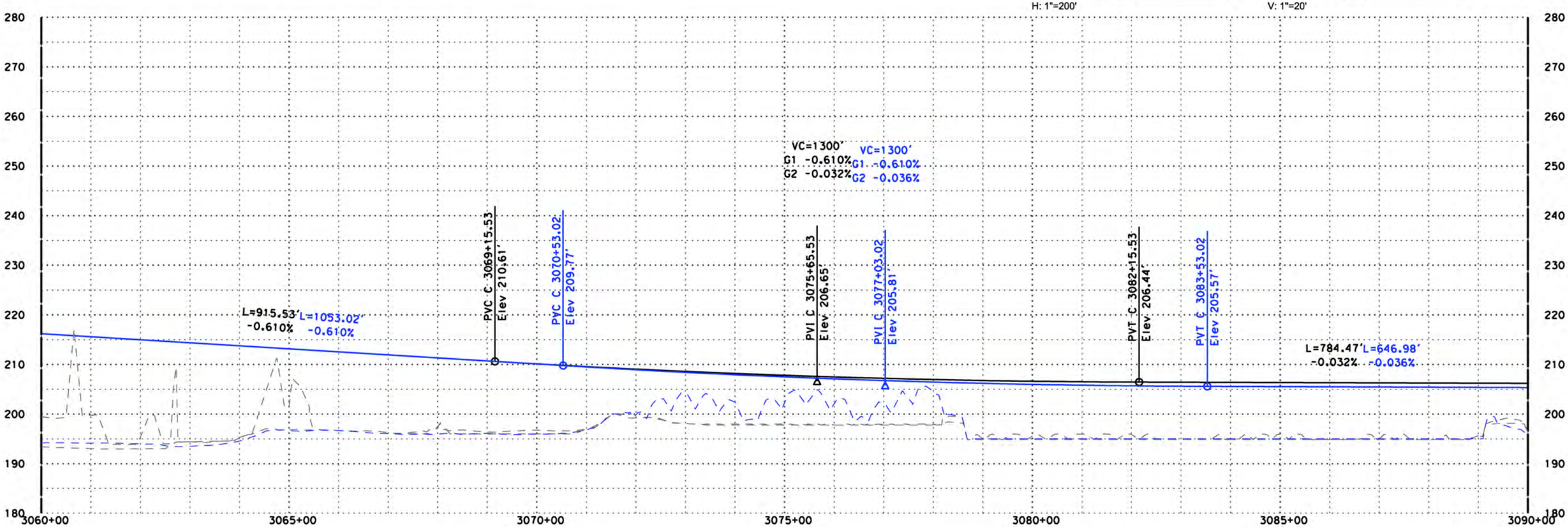
10/14/2014 11:28:05 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG5-C2_TT-D1087.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"C2" LINE

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DFS

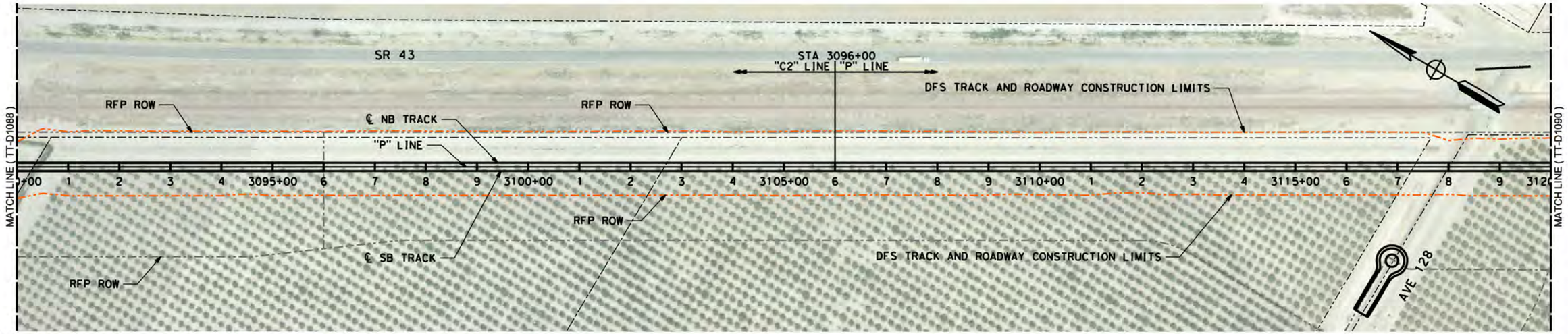
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT C2

PLAN AND PROFILE
C 3060+00.00 TO C 3090+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1088
SCALE AS SHOWN
SHEET NO.

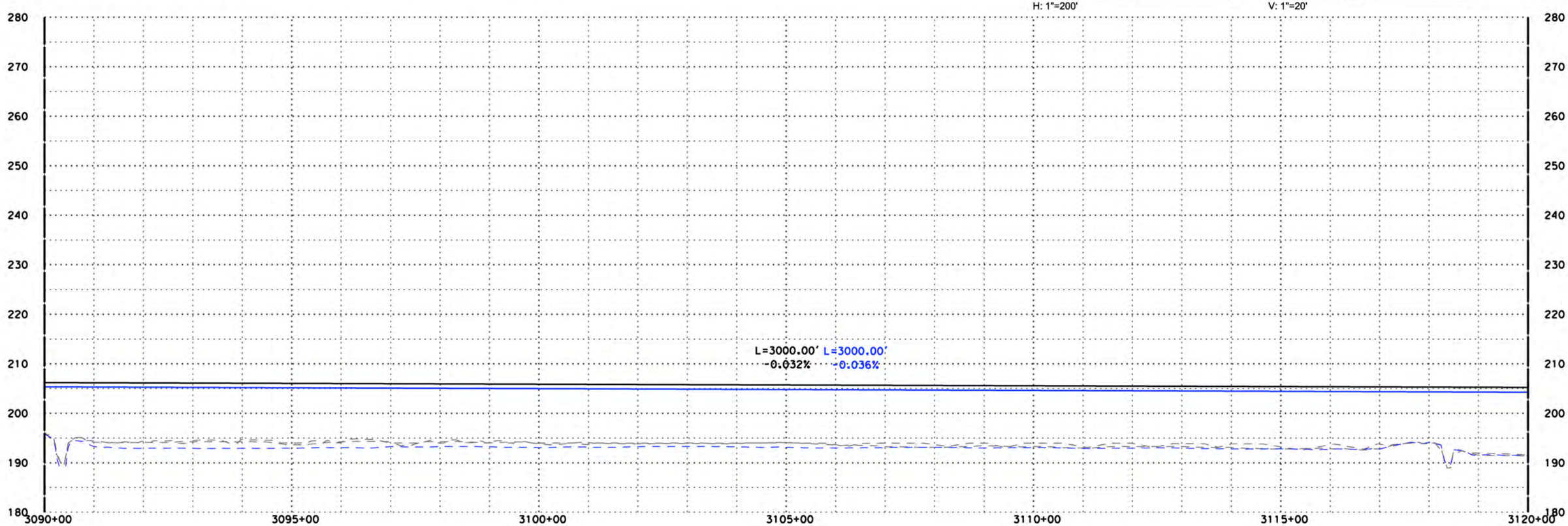
10/14/2014 11:28:44 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\noi\partingtonsa\d0168034\FB-SEG5-C2_TT-D1088.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"P" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
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IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
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DFS

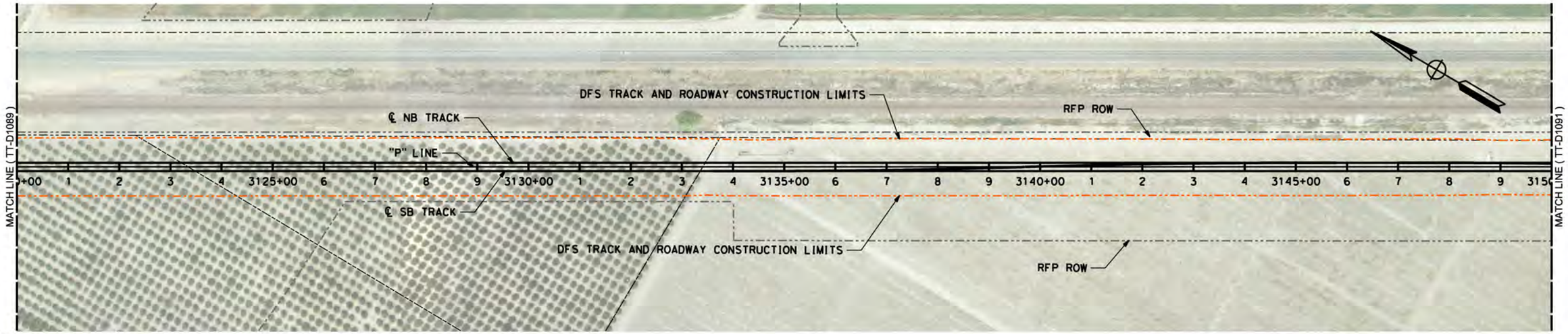
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT P

PLAN AND PROFILE
C 3090+00.00 TO P 3120+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1089
SCALE AS SHOWN
SHEET NO.

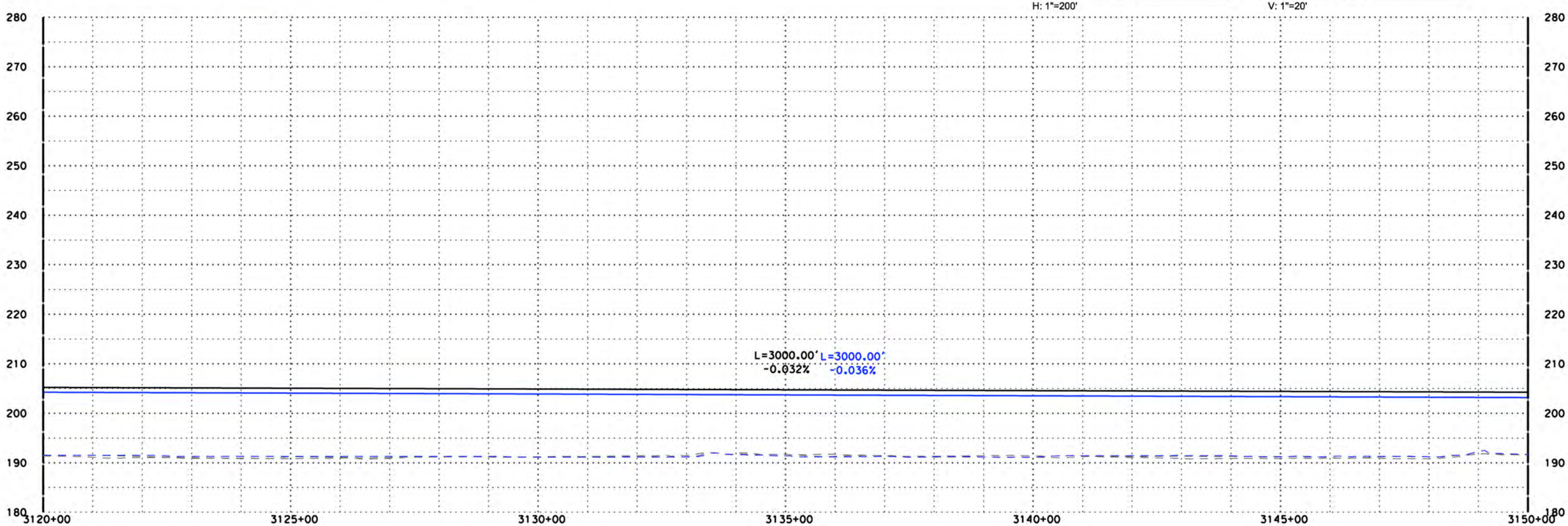
10/14/2014 11:29:44 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG5-C2_TT-D1089.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"P" LINE

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DFS

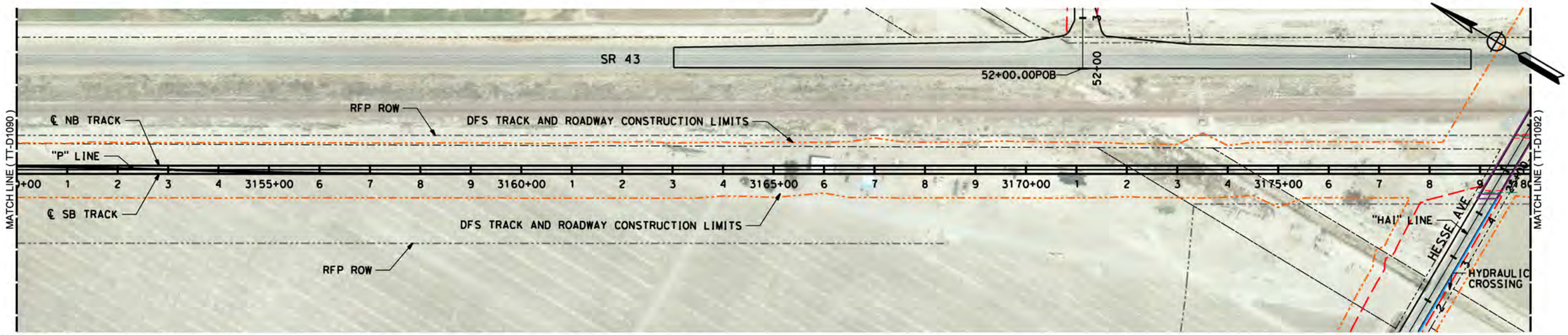
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT P

PLAN AND PROFILE
P 3120+00.00 TO P 3150+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1090
SCALE AS SHOWN
SHEET NO.

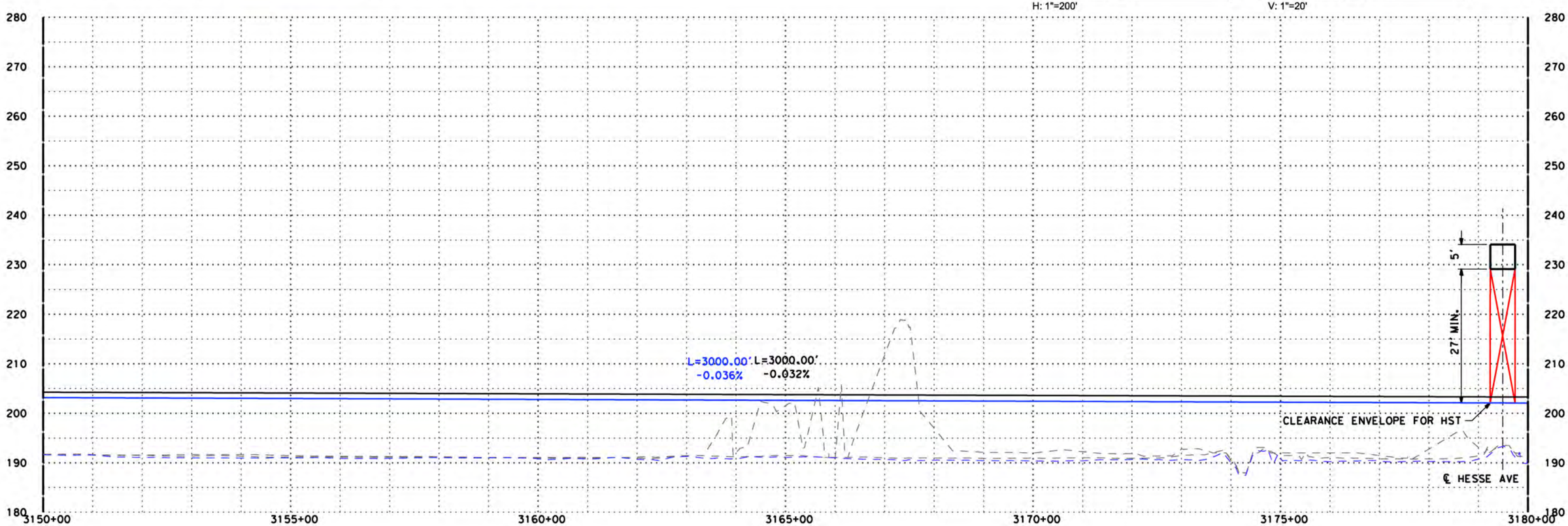
10/14/2014 11:35:59 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\oai\partingtonsa\d0168034\FB-SEG6-P_TT-D1090.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT P

PLAN AND PROFILE
C 3150+00.00 TO C 3180+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1091
SCALE	AS SHOWN
SHEET NO.	

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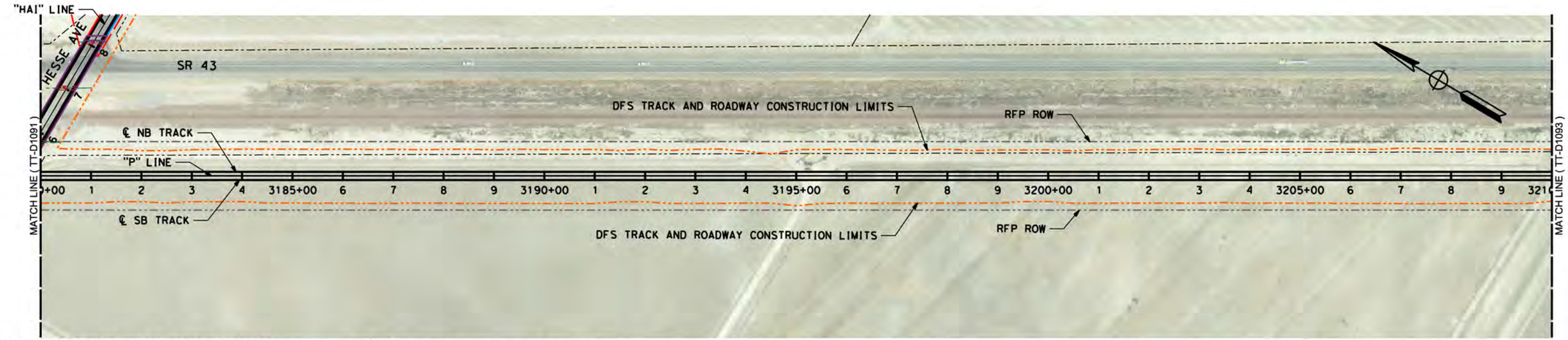
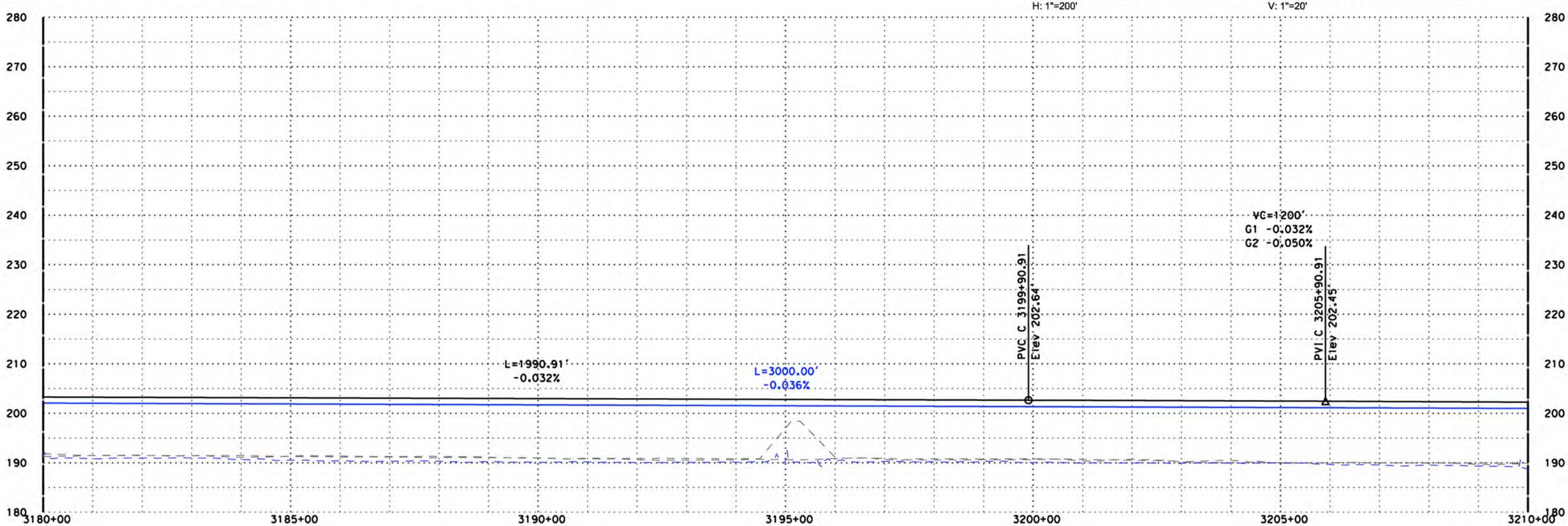


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT P

PLAN AND PROFILE
P 3180+00.00 TO P 3210+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1092
SCALE	AS SHOWN
SHEET NO.	

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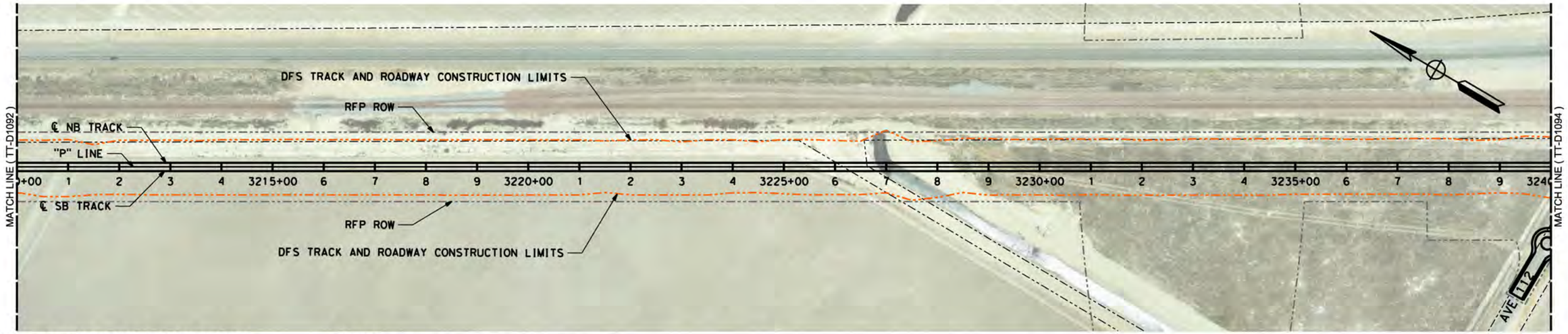
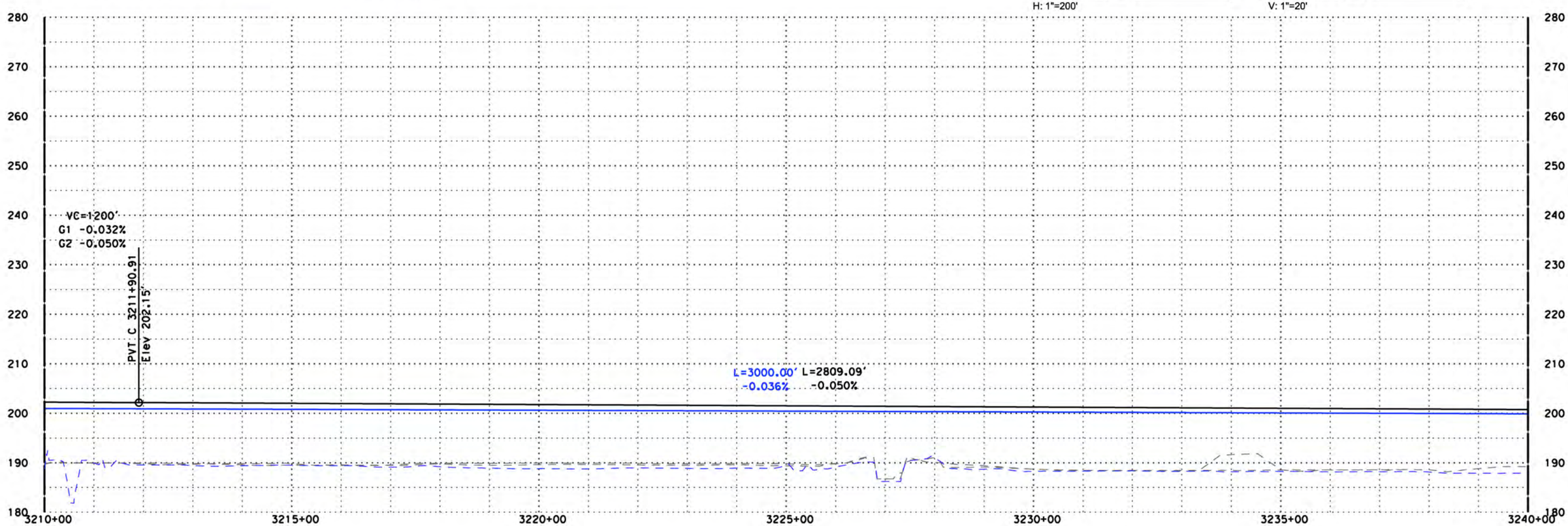


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"P" LINE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT P

PLAN AND PROFILE
P 3210+00.00 TO P 3240+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1093
SCALE AS SHOWN
SHEET NO.

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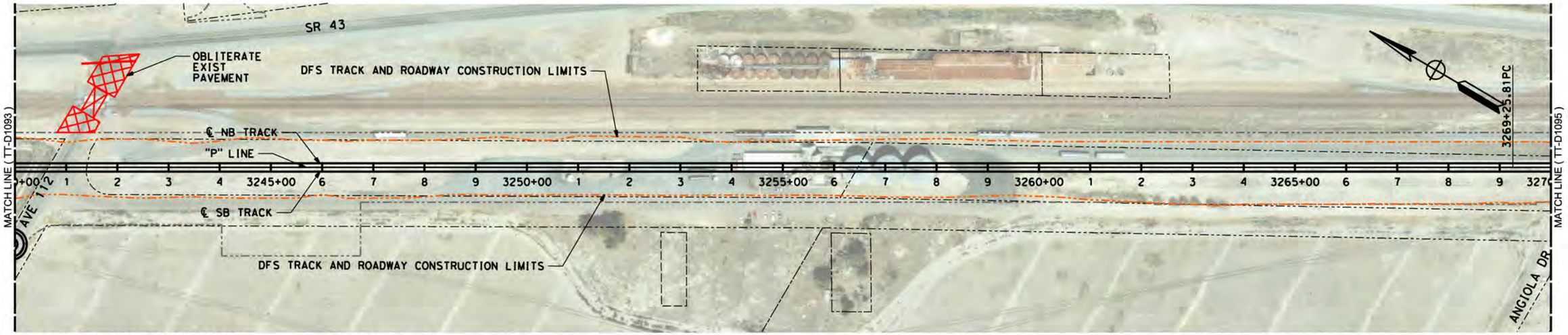
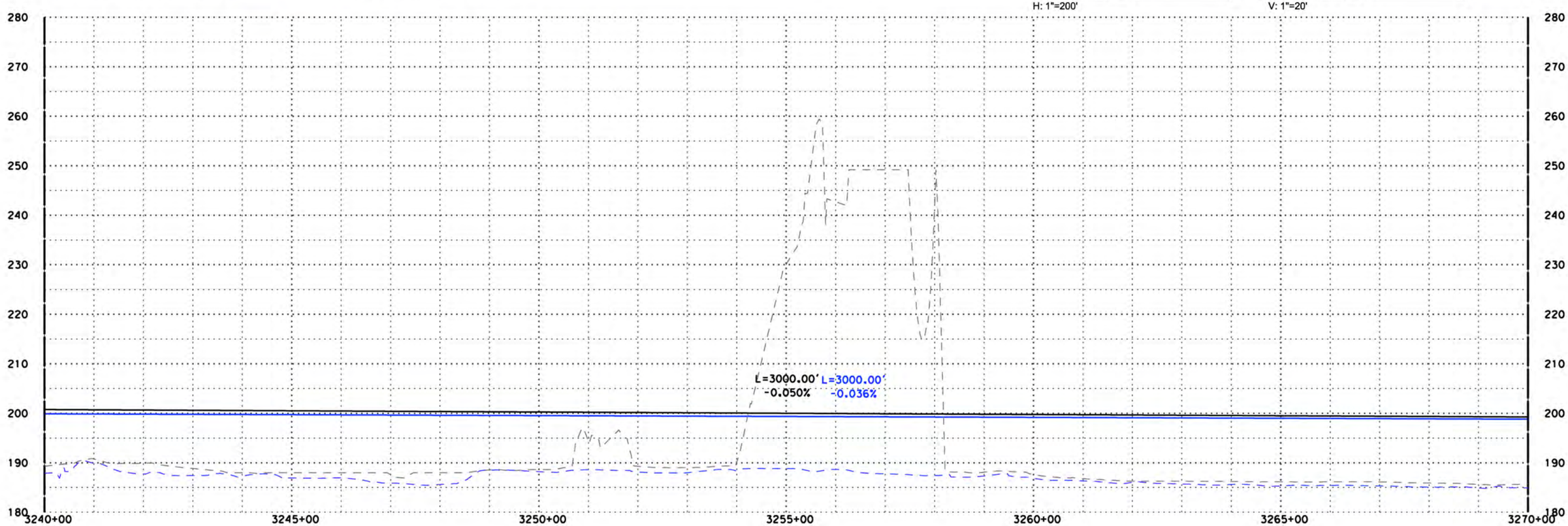


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — PROPOSED OPTIMIZED PROFILE — RFP OG - - - OG ALONG TRACK CL (APPROX) - - -

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"P" LINE

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DESIGNED BY	P. Barney
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT P

PLAN AND PROFILE
P 3240+00.00 TO P 3270+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1094
SCALE	AS SHOWN
SHEET NO.	

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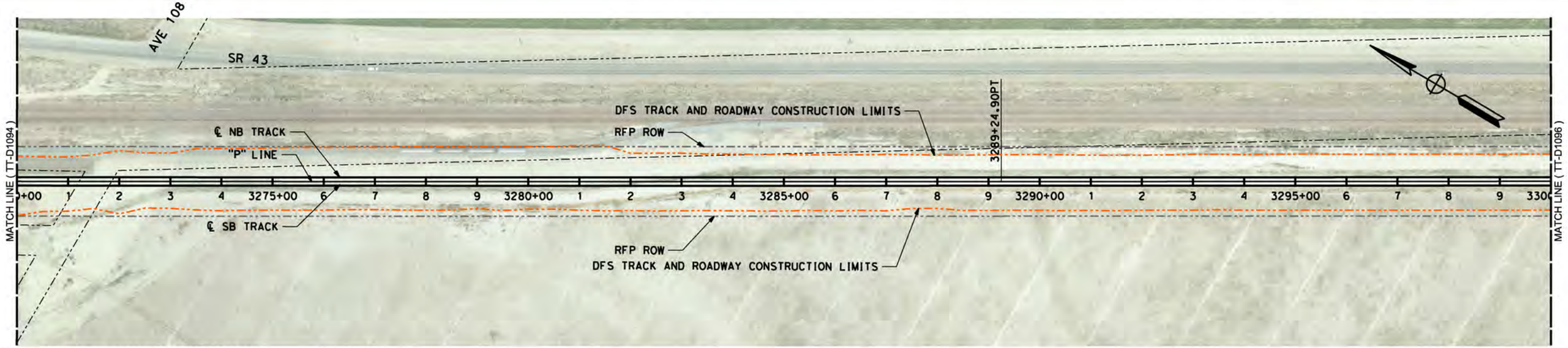
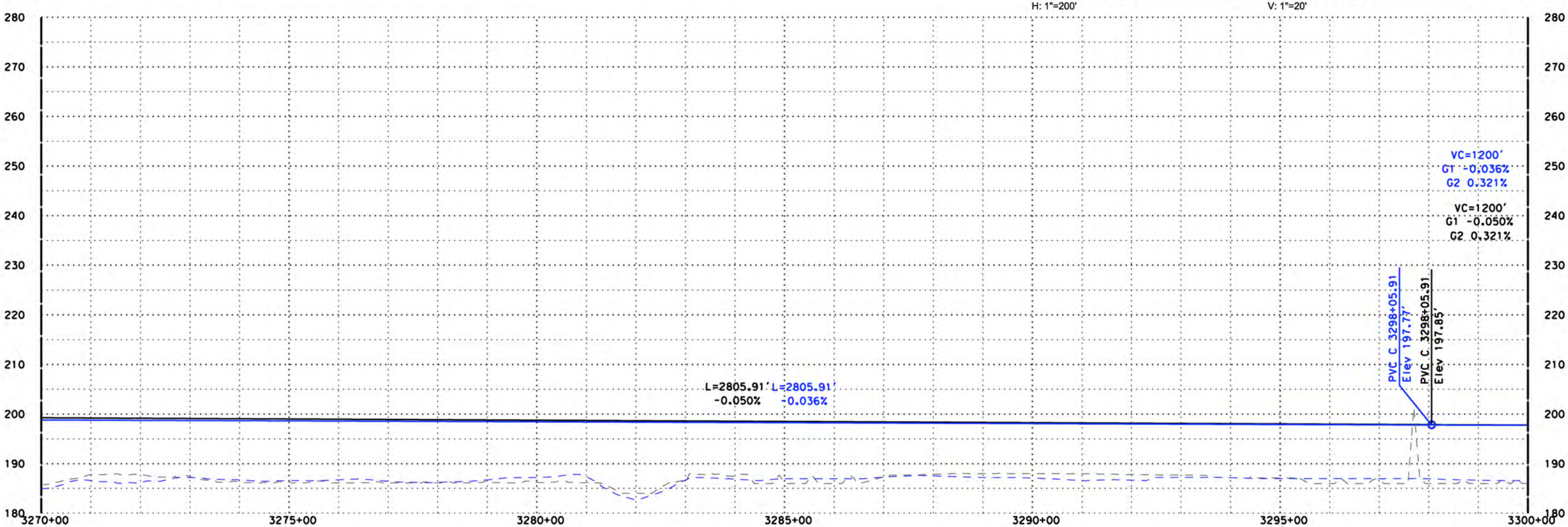


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"P" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE $DATE$2014

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT P

PLAN AND PROFILE
P 3270+00.00 TO P 3300+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1095
SCALE AS SHOWN
SHEET NO.

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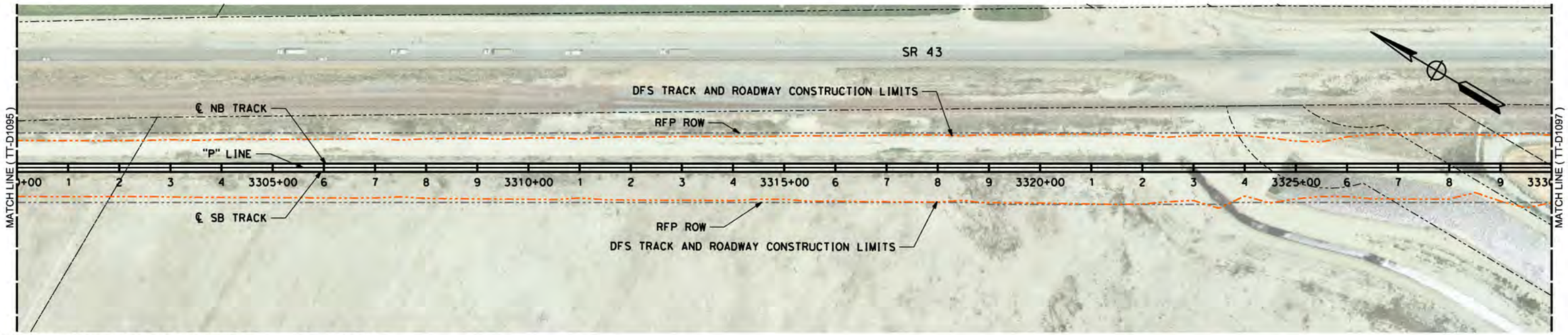
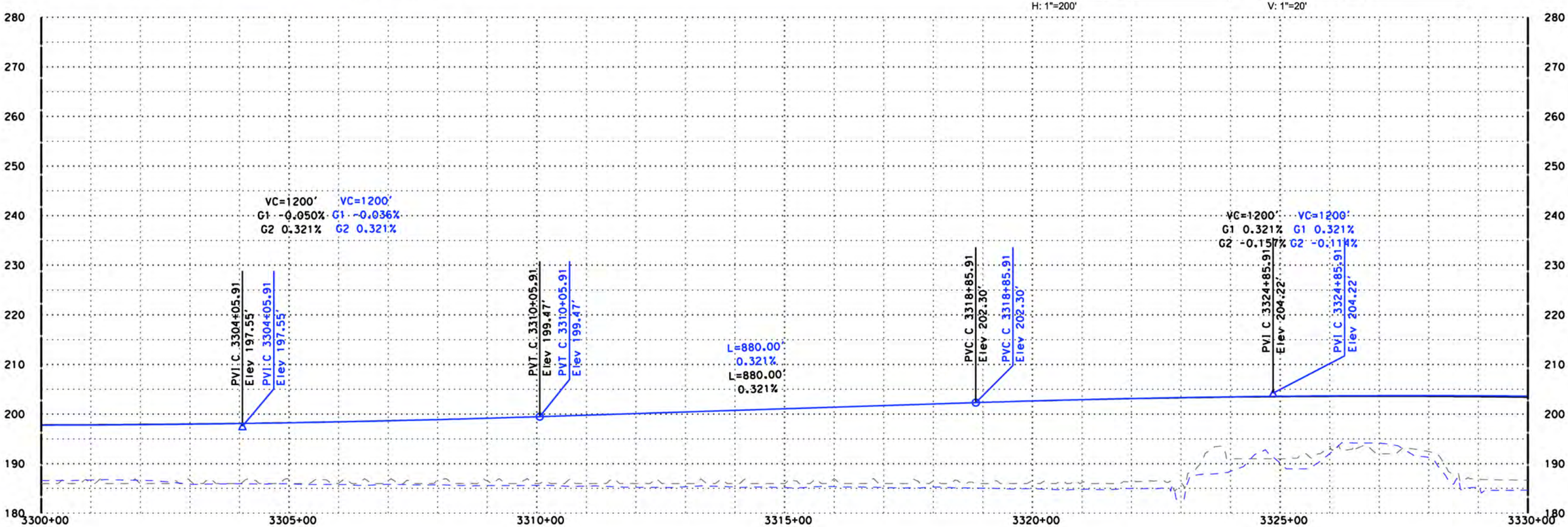


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"P" LINE

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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT P

PLAN AND PROFILE
P 3300+00.00 TO P 3330+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1096
SCALE	AS SHOWN
SHEET NO.	

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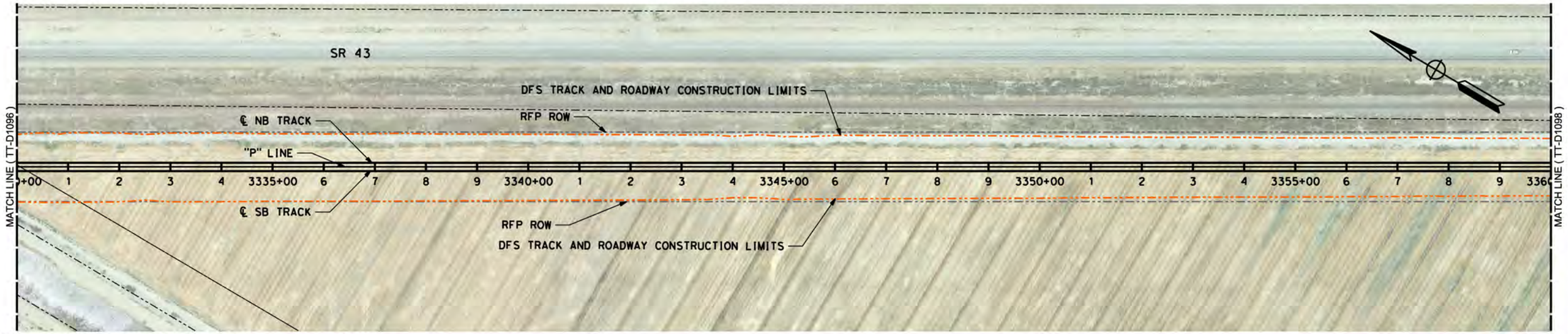
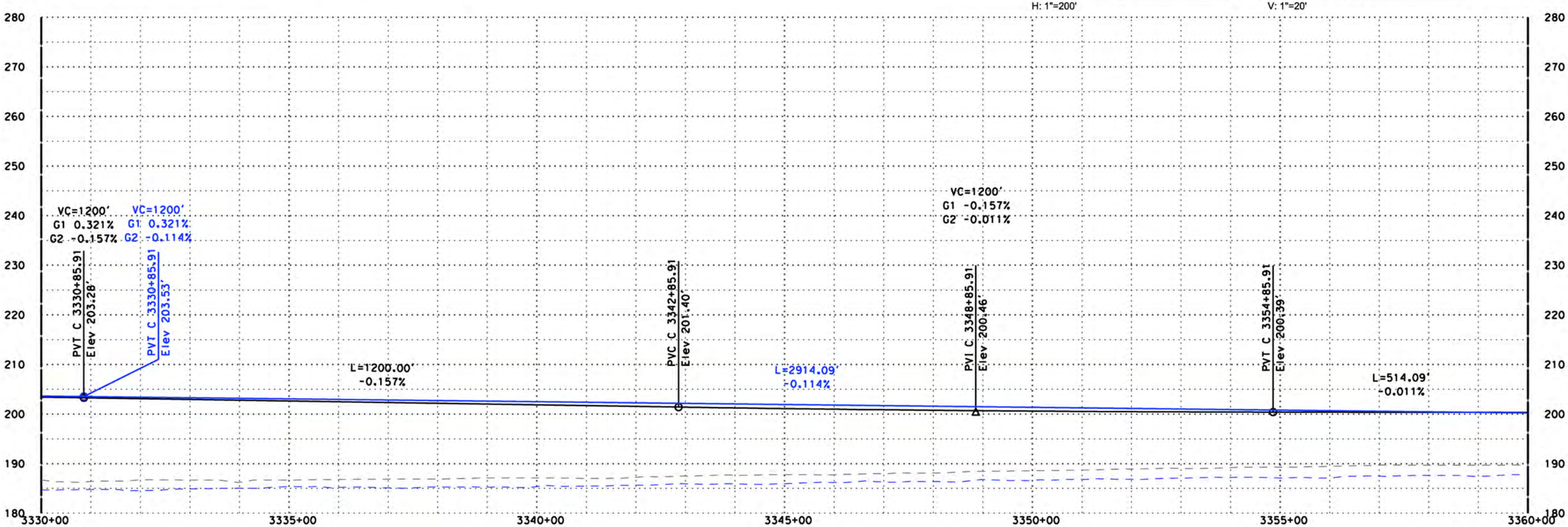


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"P" LINE

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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT P

PLAN AND PROFILE
P 3330+00.00 TO P 3360+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1097
SCALE	AS SHOWN
SHEET NO.	

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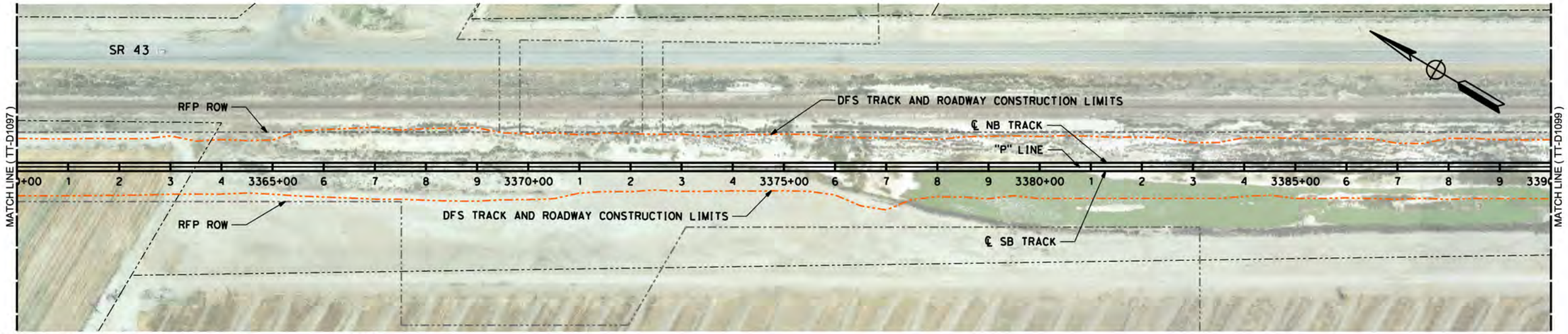
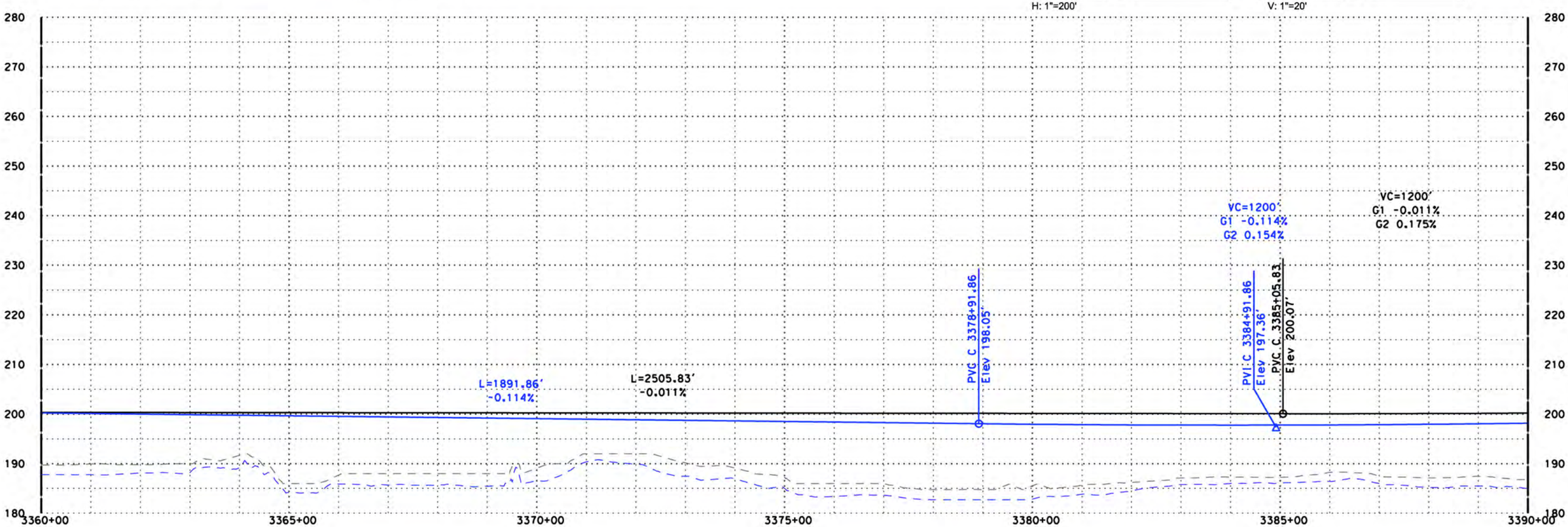


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"P" LINE

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DESIGNED BY	P. Barney
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT P

PLAN AND PROFILE
P 3360+00.00 TO P 3390+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1098
SCALE	AS SHOWN
SHEET NO.	

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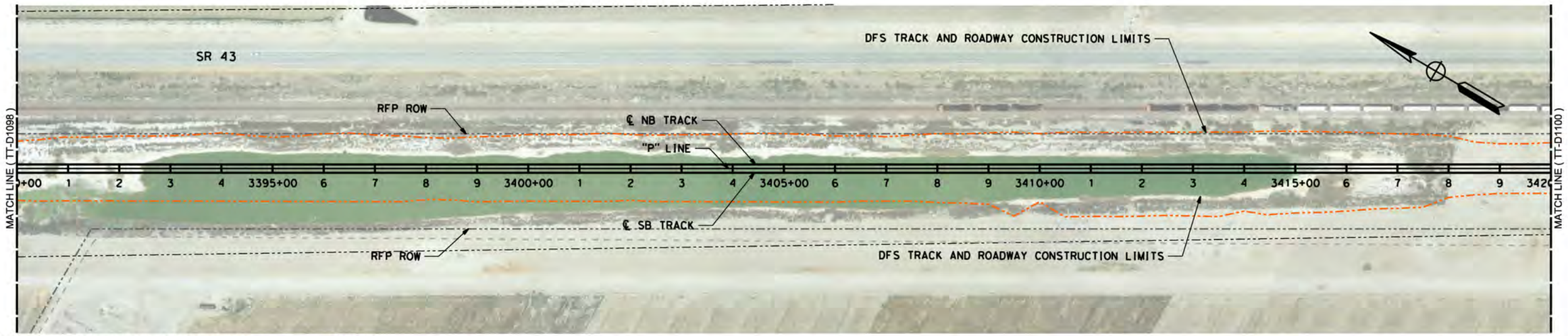
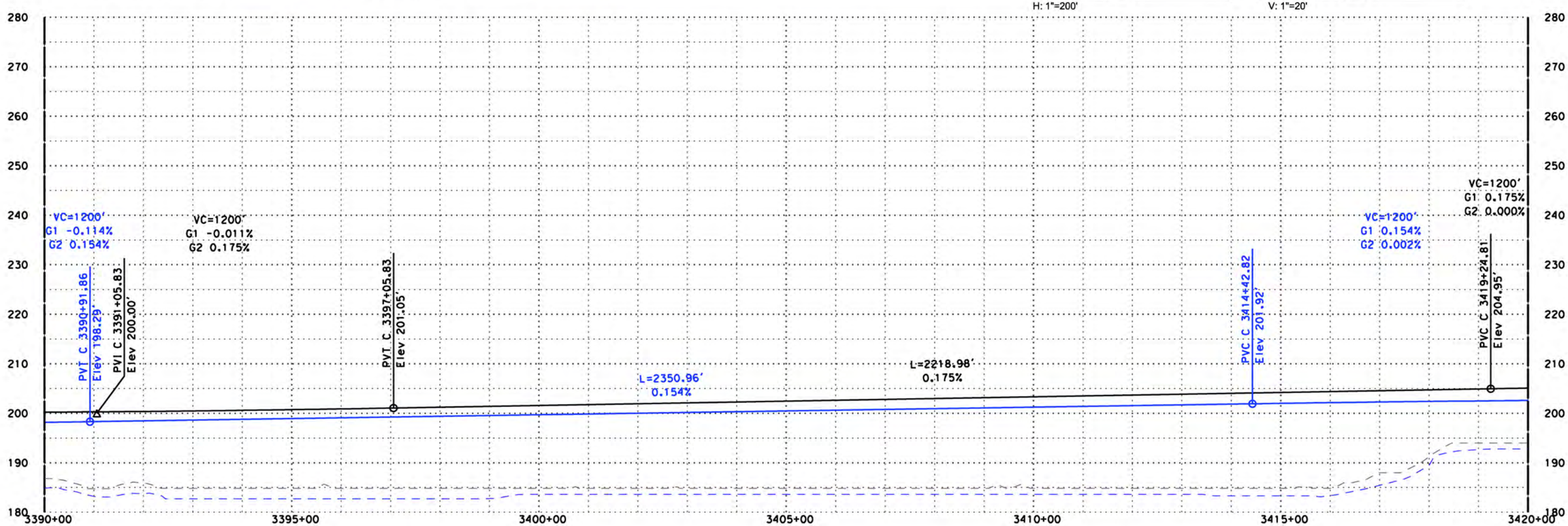


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

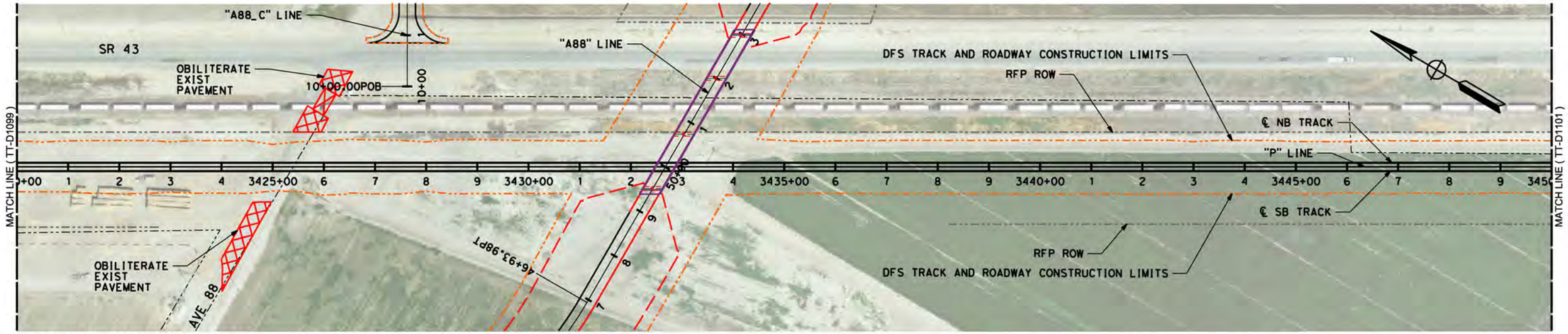
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT P

PLAN AND PROFILE
P 3390+00.00 TO P 3420+00.00

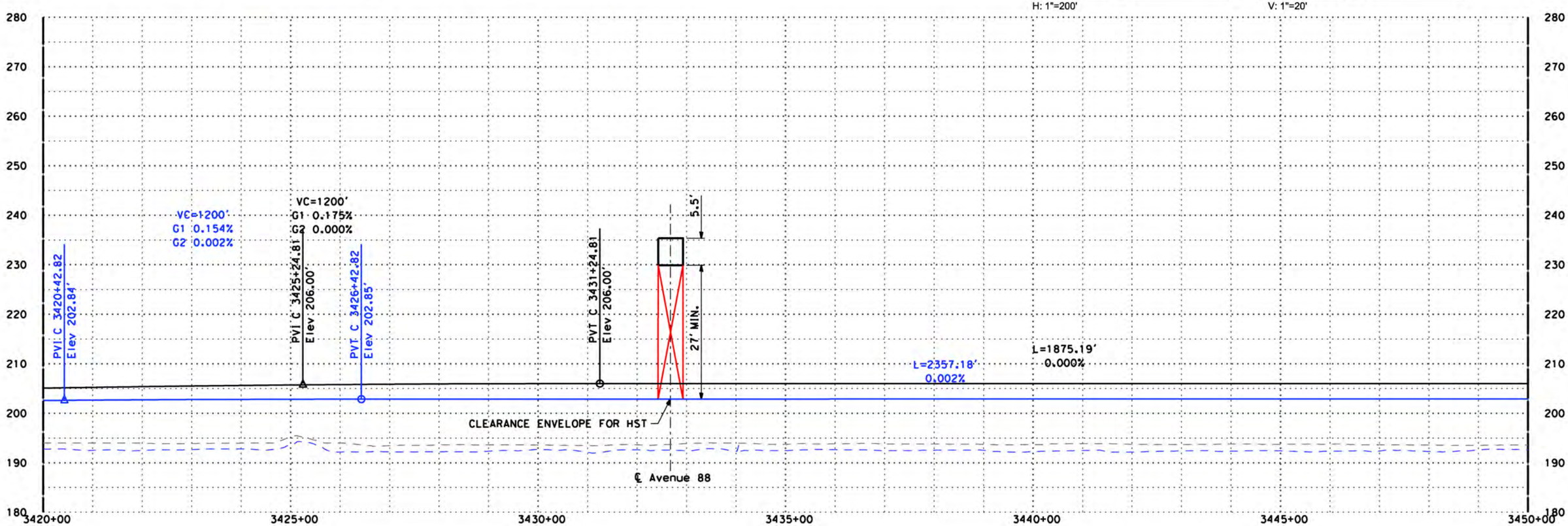
CONTRACT NO. HSR 06-0003
DRAWING NO. D1099
SCALE AS SHOWN
SHEET NO.

10/14/2014 11:42:40 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG6-P_TT-D1099.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"P" LINE

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DESIGNED BY	P. Barney
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT P

PLAN AND PROFILE
P 3420+00.00 TO P 3450+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1100
SCALE	AS SHOWN
SHEET NO.	

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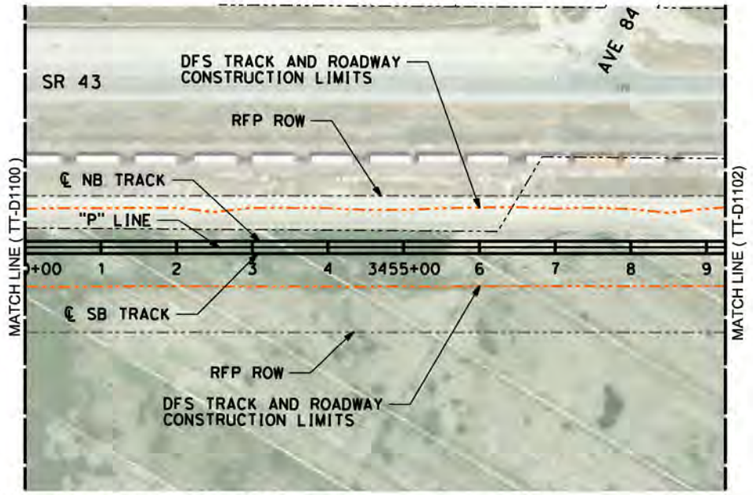
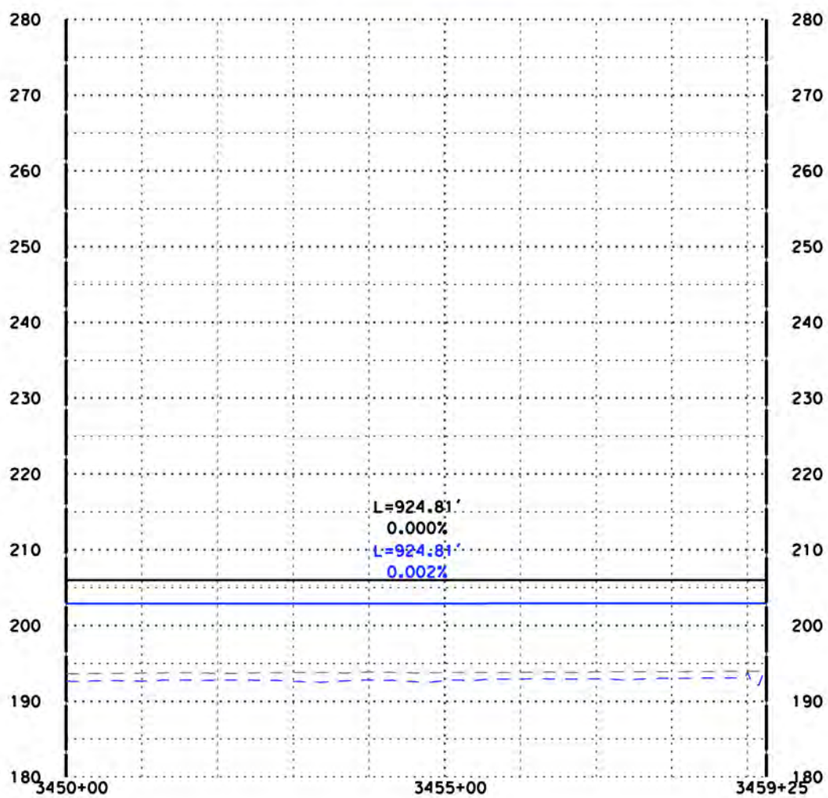
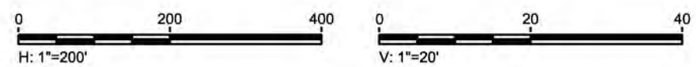


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)



"P" LINE



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DESIGNED BY	P. Barney
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

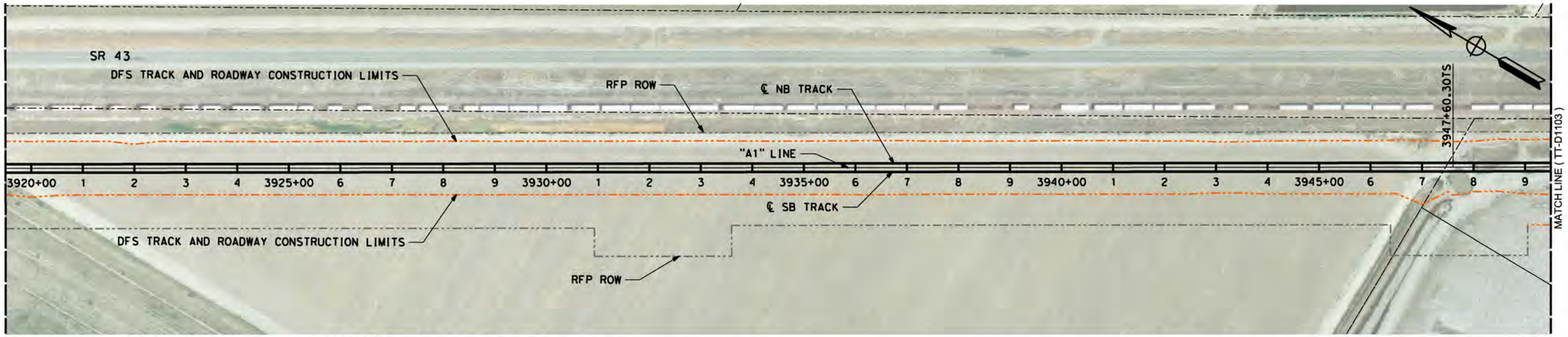
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT P

PLAN AND PROFILE
P 3450+00.00 TO P 3459+24.81

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1101
SCALE	AS SHOWN
SHEET NO.	

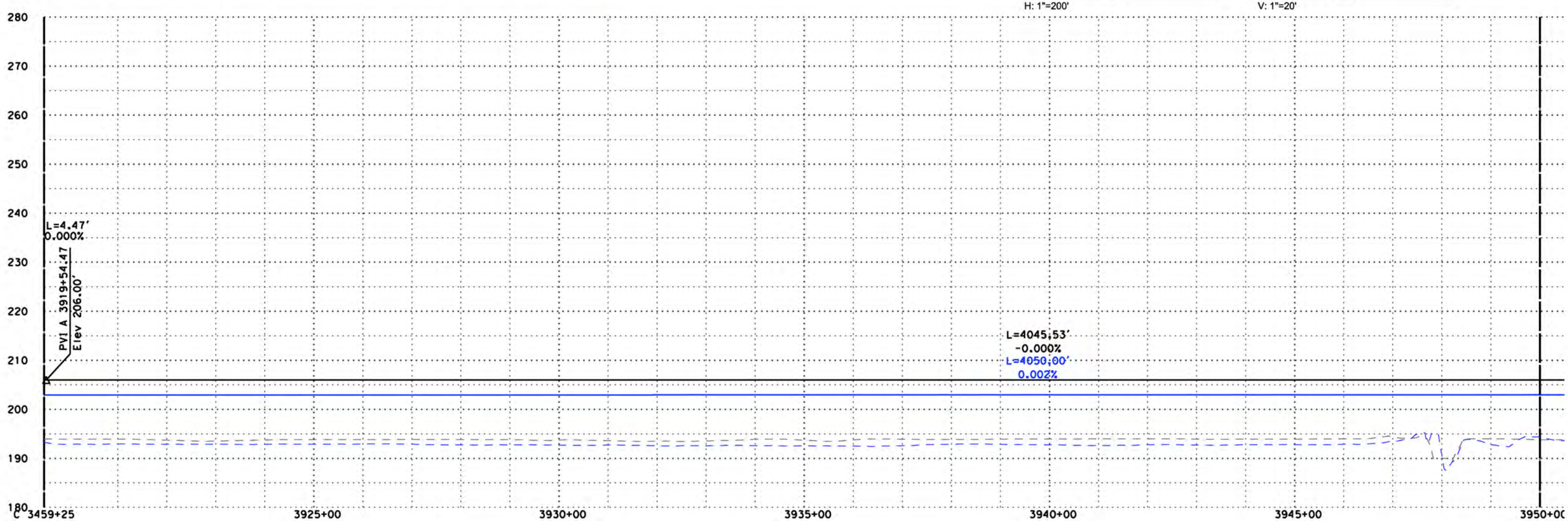
10/14/2014 11:44:06 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG6-P_TT-D1101.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

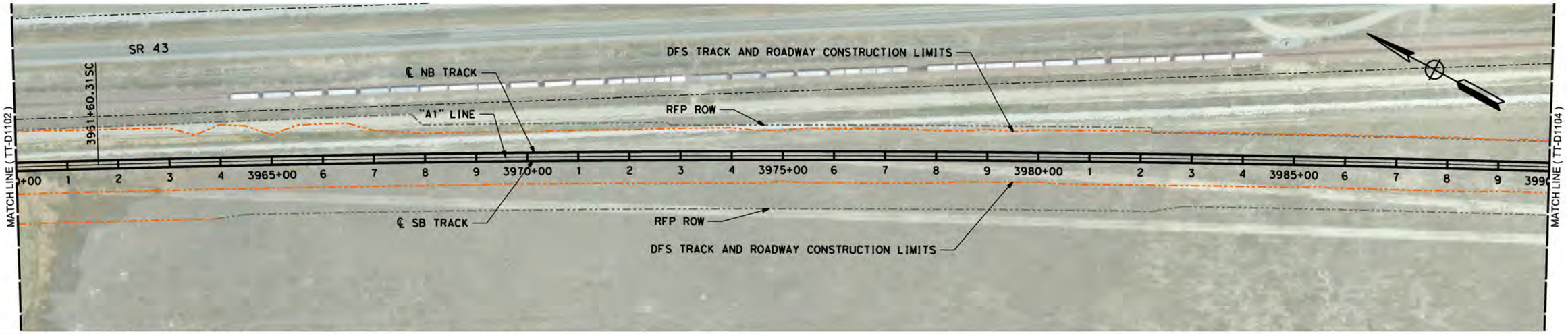
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 3459+24.81 TO A1 3960+00.00

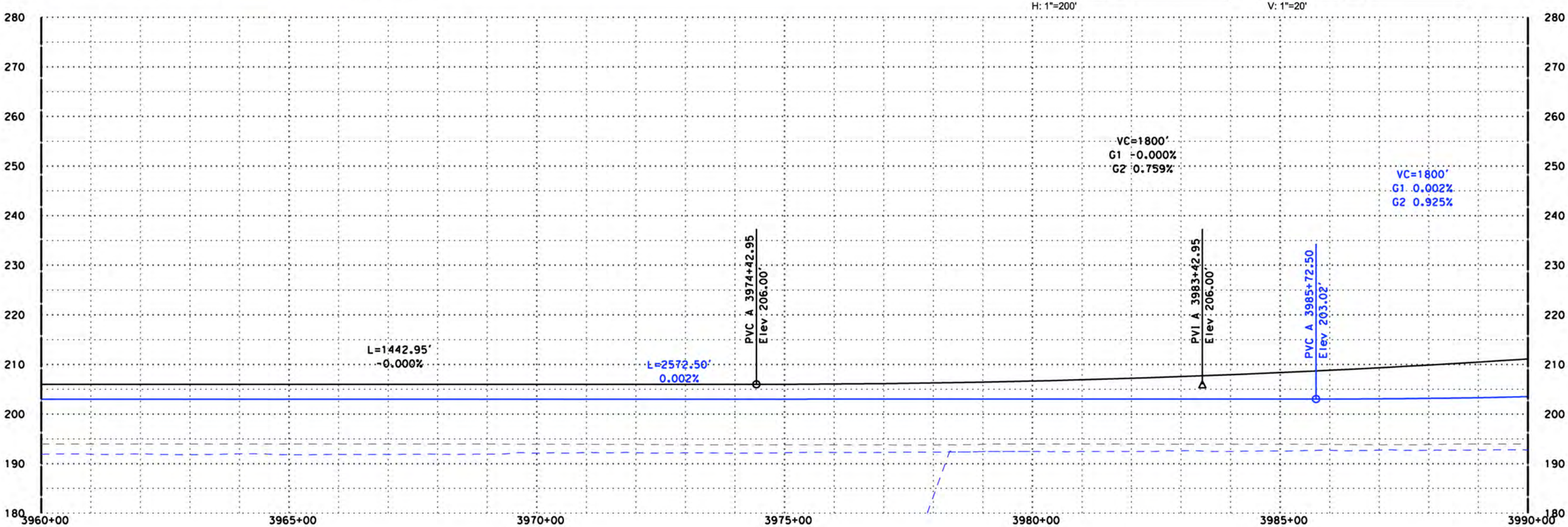
CONTRACT NO. HSR 06-0003
DRAWING NO. D1102
SCALE AS SHOWN
SHEET NO.

10/14/2014 11:44:43 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG7-A1_TT-D1102.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"A1" LINE

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DESIGNED BY	P. Barney
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

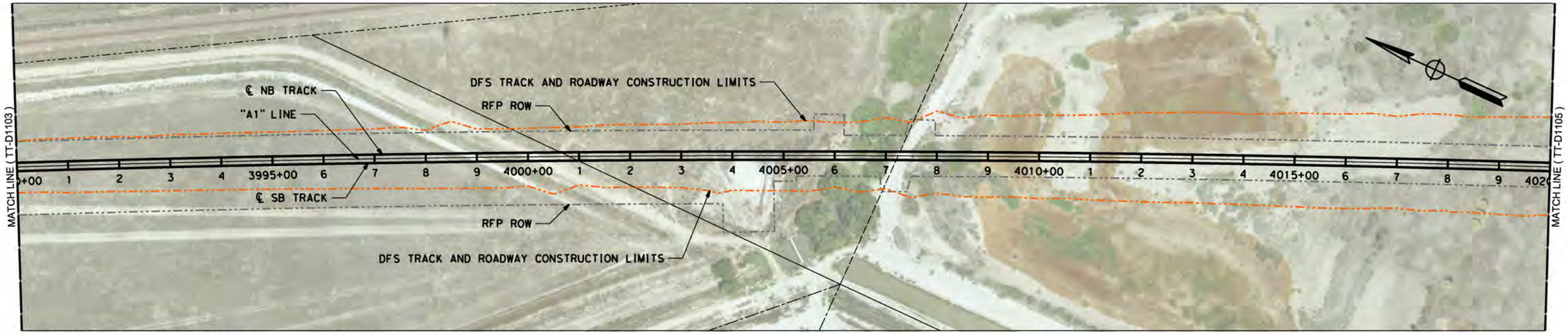
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 3960+00.00 TO A1 3990+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1103
SCALE	AS SHOWN
SHEET NO.	

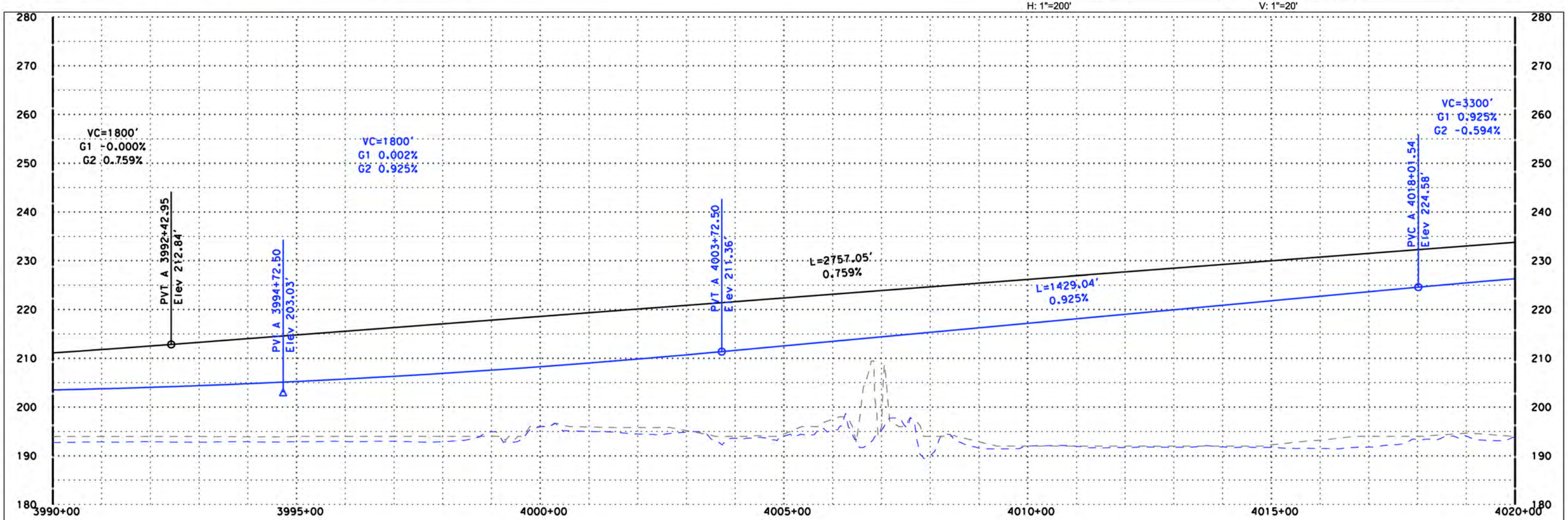
10/14/2014 11:45:38 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG7-A1_TT-D1103.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"A1" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 3990+00.00 TO A1 4020+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1104
SCALE AS SHOWN
SHEET NO.

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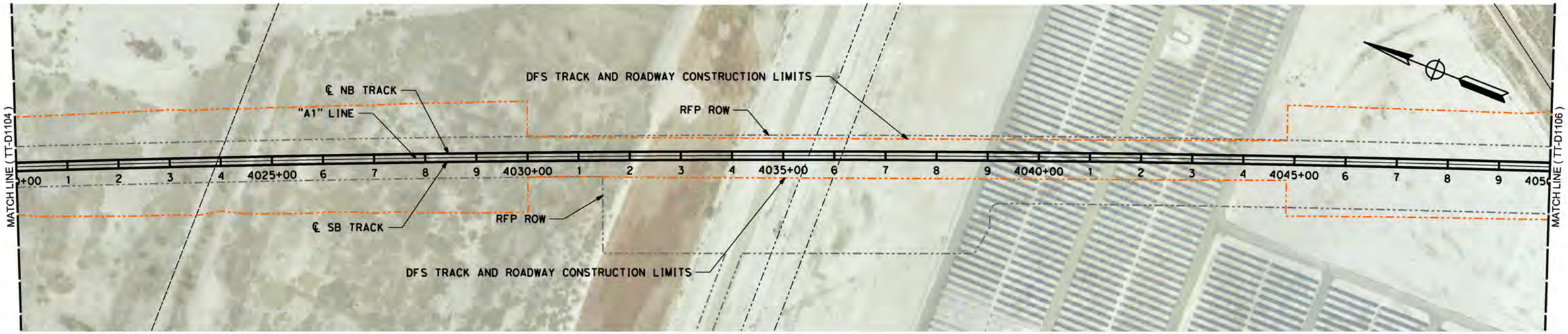
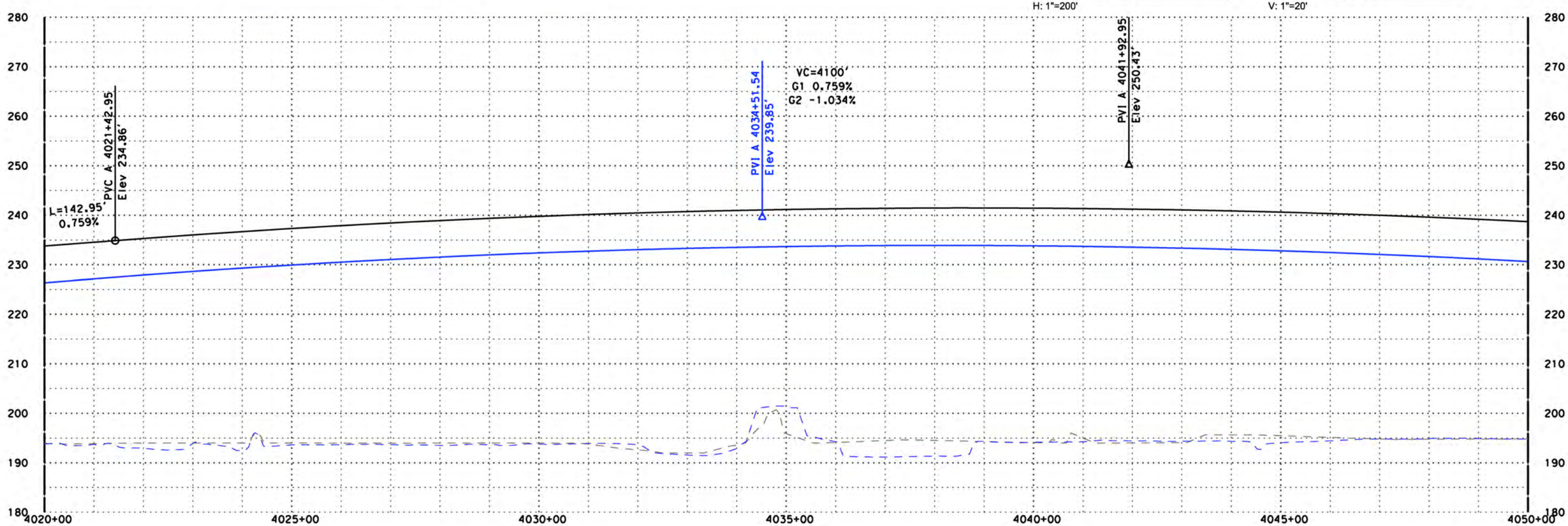


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"A1" LINE

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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4020+00.00 TO A1 4050+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1105
SCALE	AS SHOWN
SHEET NO.	

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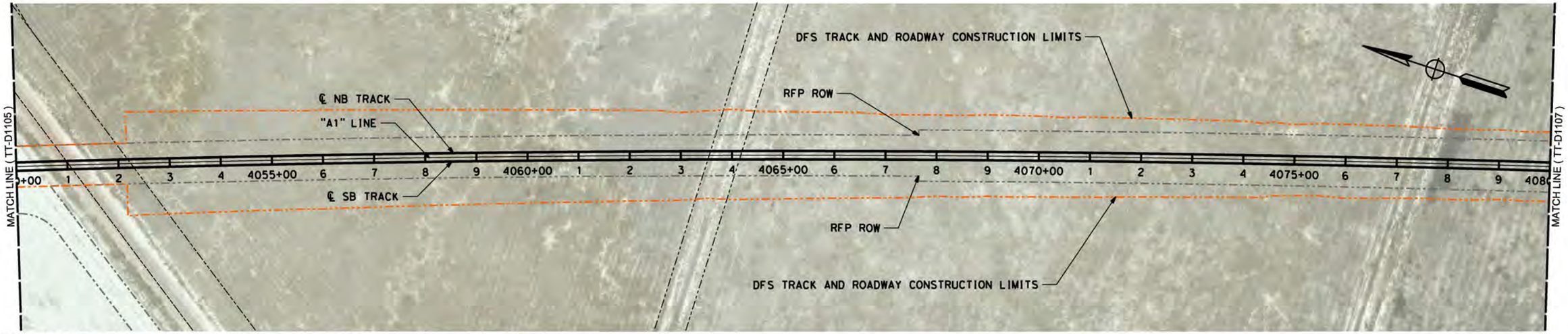
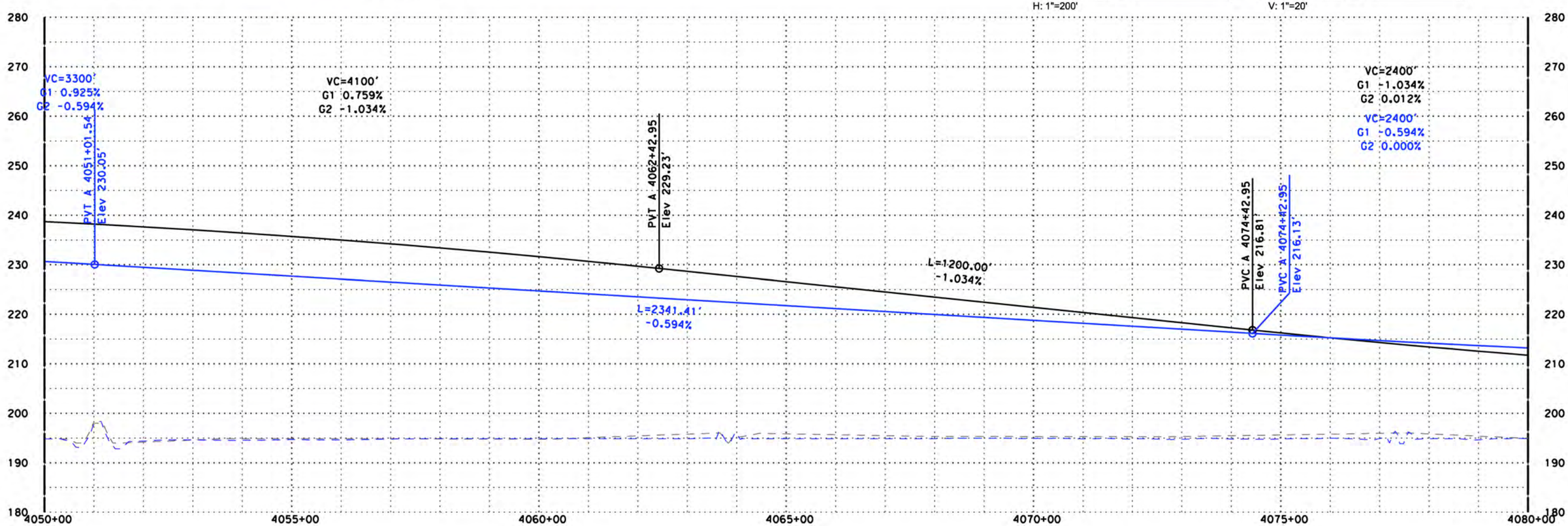


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"A1" LINE

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4050+00.00 TO A1 4080+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1106
SCALE	AS SHOWN
SHEET NO.	

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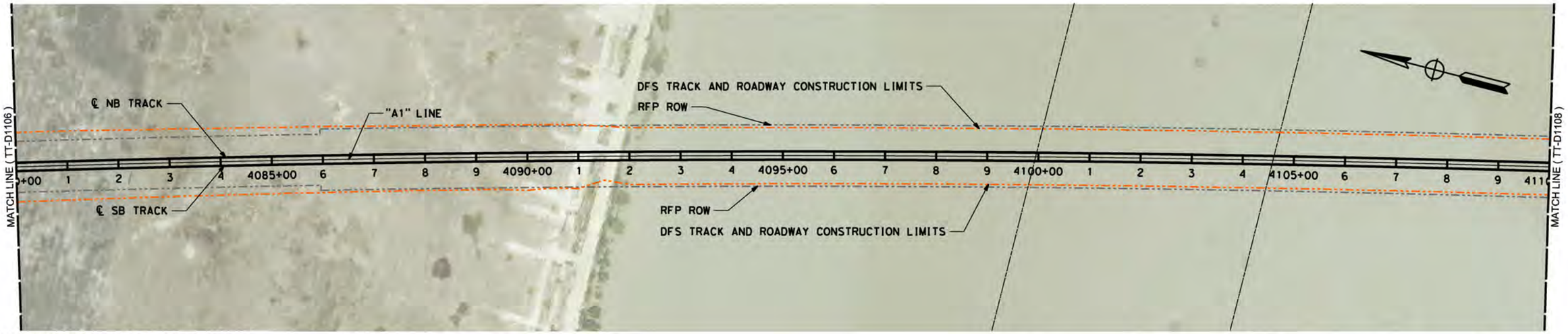
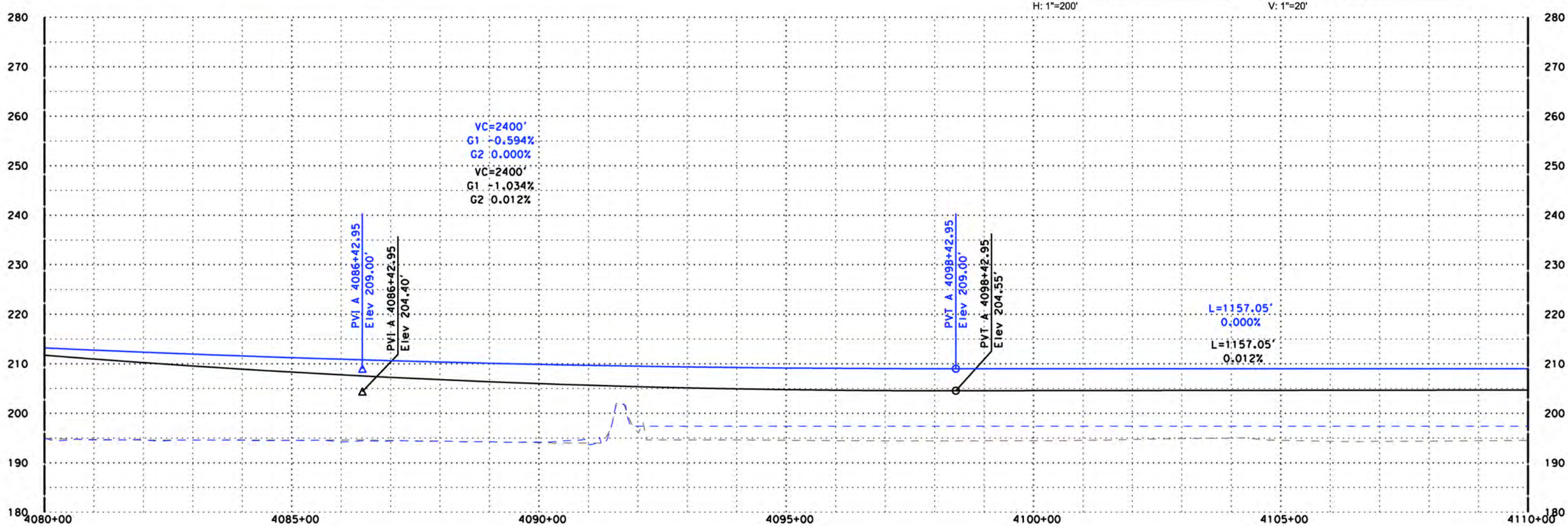


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"A1" LINE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4080+00.00 TO A1 4110+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1107
SCALE	AS SHOWN
SHEET NO.	

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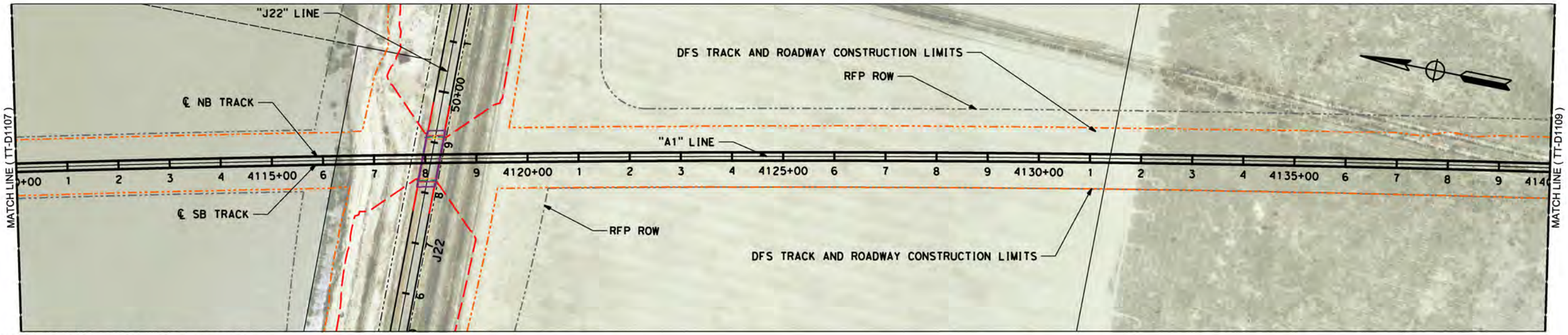
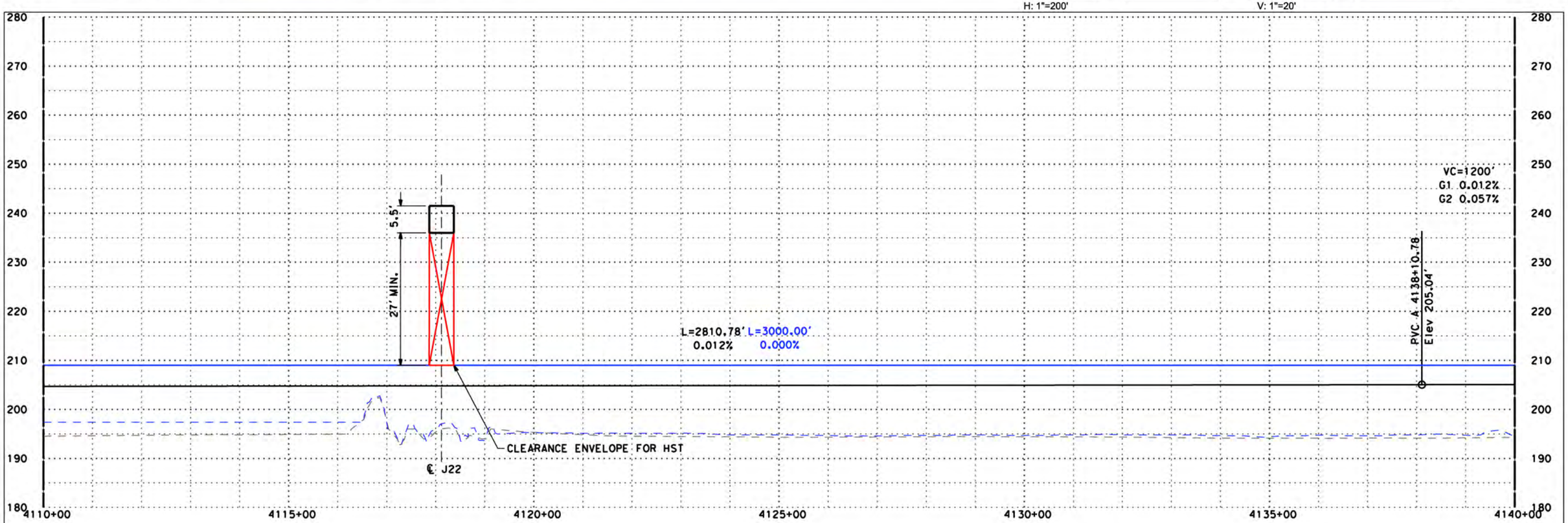


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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IN CHARGE R. Trevett
DATE 10/15/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4110+00.00 TO A1 4140+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1108
SCALE AS SHOWN
SHEET NO.

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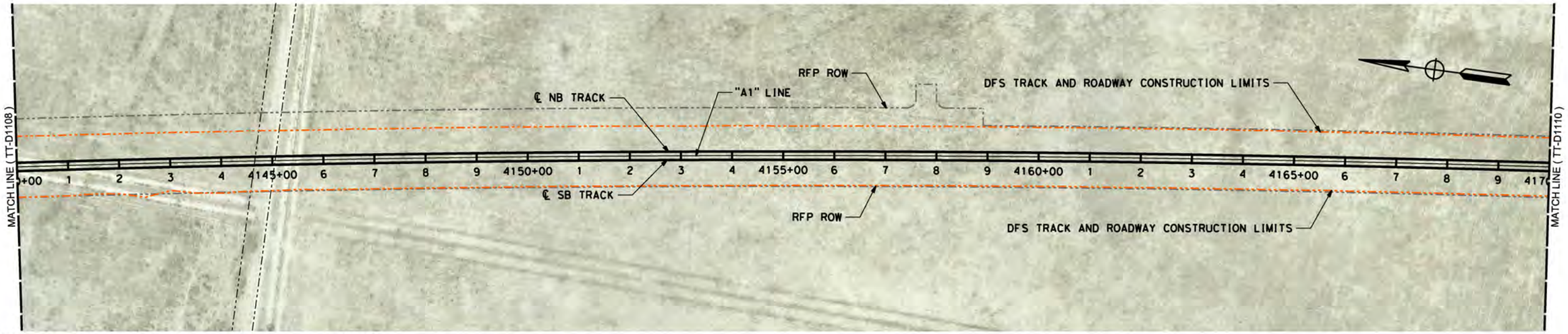
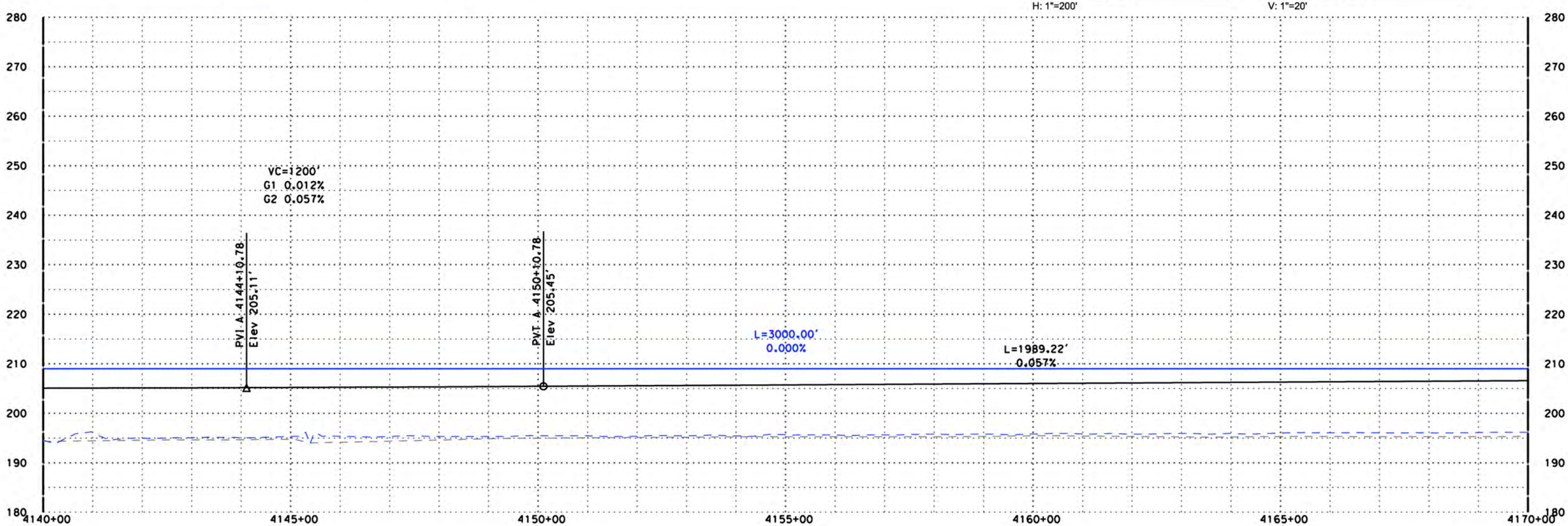


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"A1" LINE

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DFS

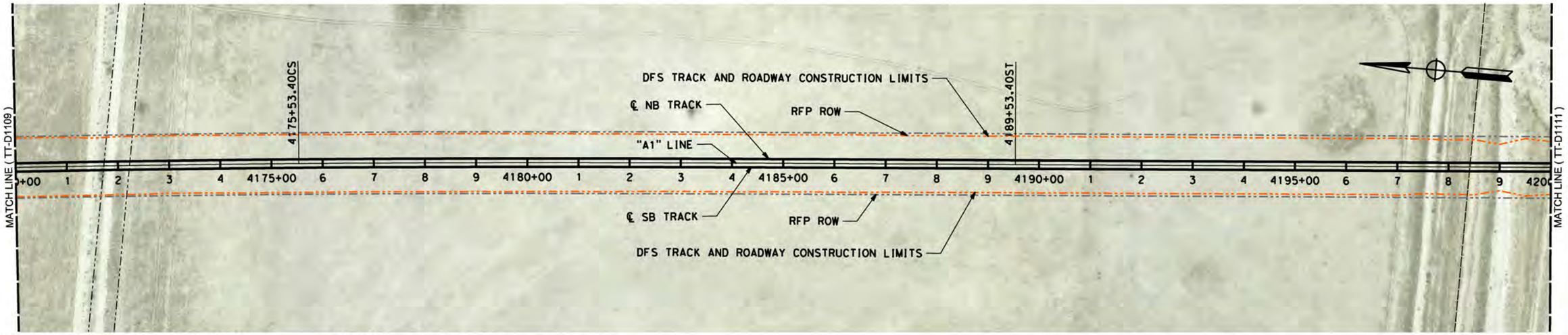
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4140+00.00 TO A1 4170+00.00

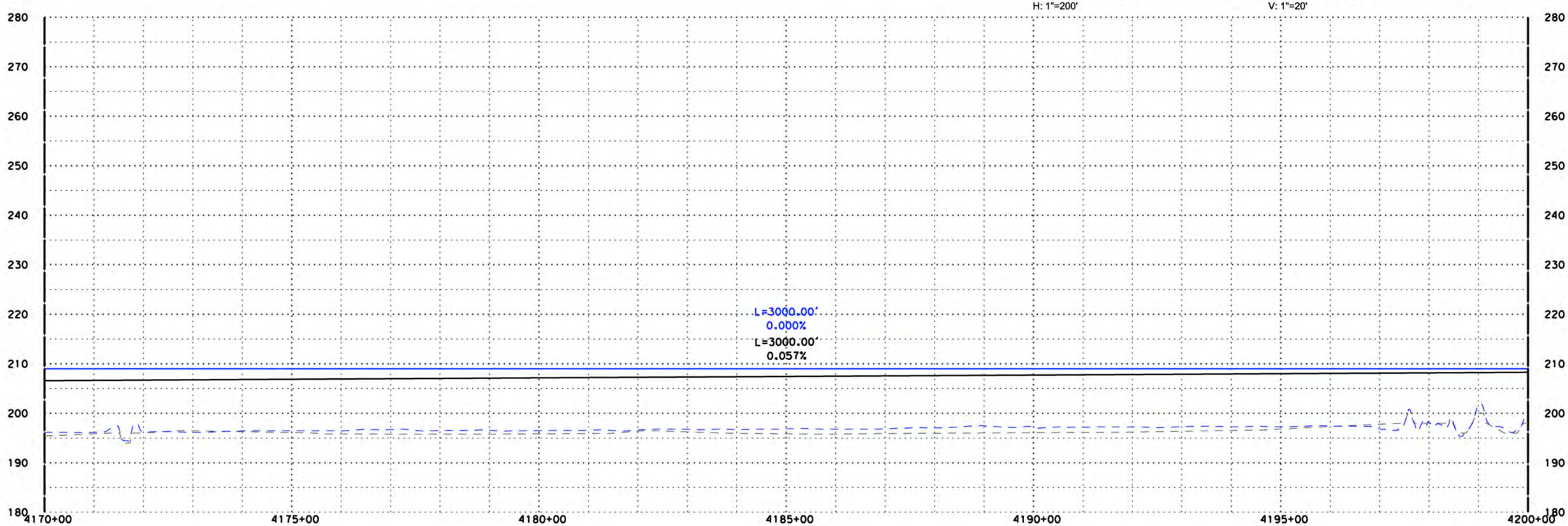
CONTRACT NO. HSR 06-0003
DRAWING NO. D1109
SCALE AS SHOWN
SHEET NO.

10/14/2014 11:49:31 AM CHSTP.tbl CHSR_pdf_full.pltcfg c:\pwworking\nai\partingtonsa\d0168034\FB-SEG7-A1_TT-D1109.dgn



LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"A1" LINE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4170+00.00 TO A1 4200+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1110
SCALE AS SHOWN
SHEET NO.

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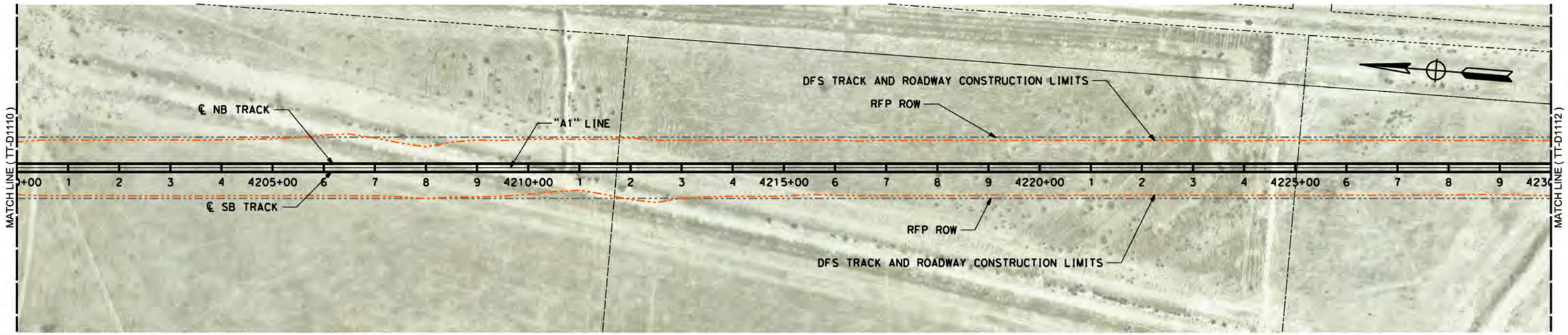
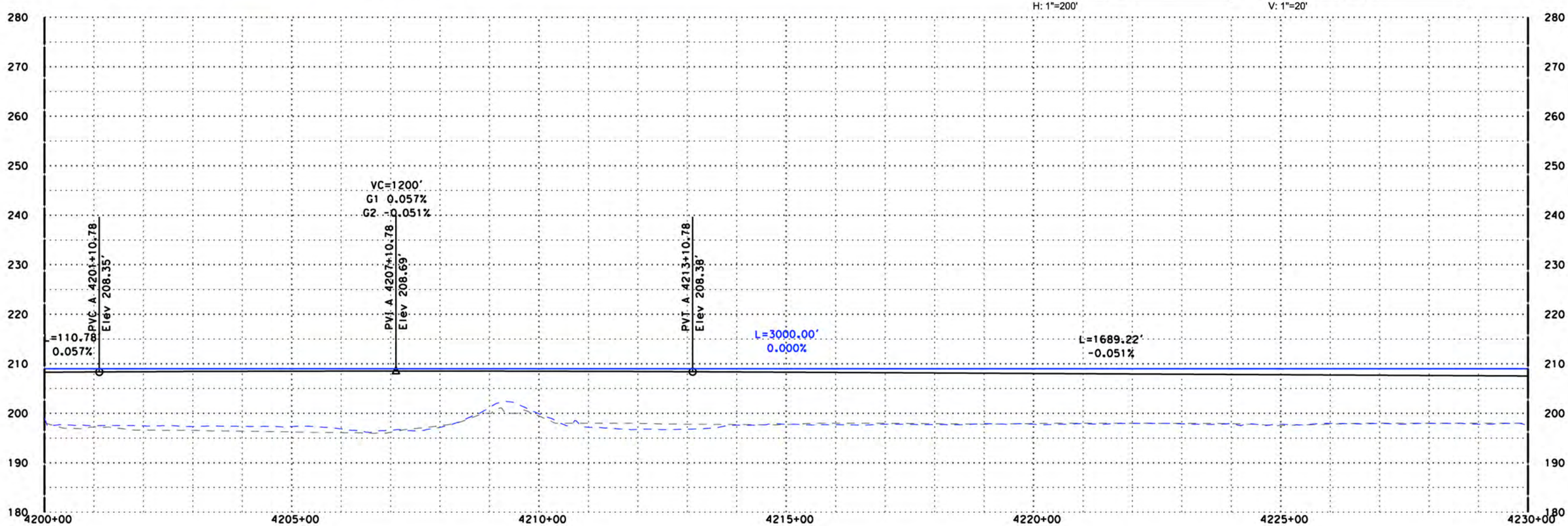


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"A1" LINE

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DATE	10/15/14

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4200+00.00 TO A1 4230+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1111
SCALE	AS SHOWN
SHEET NO.	

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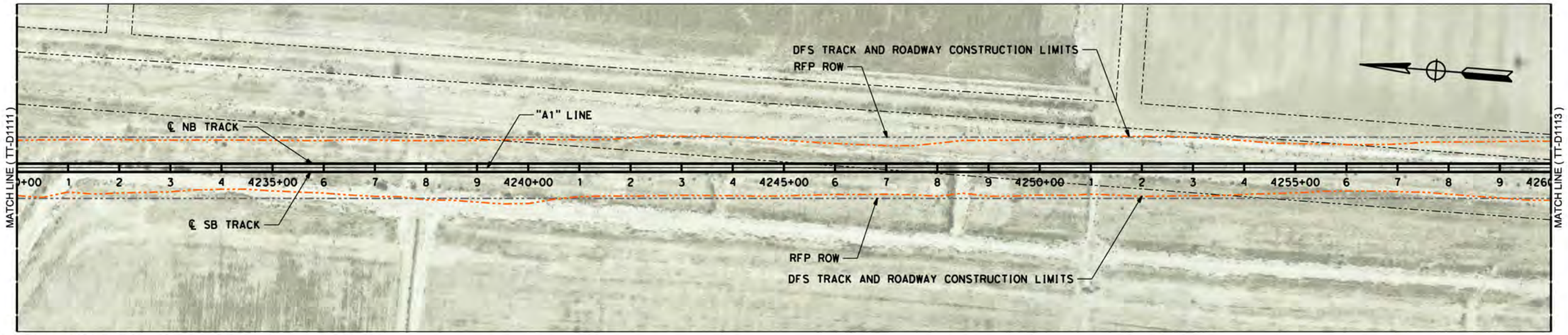
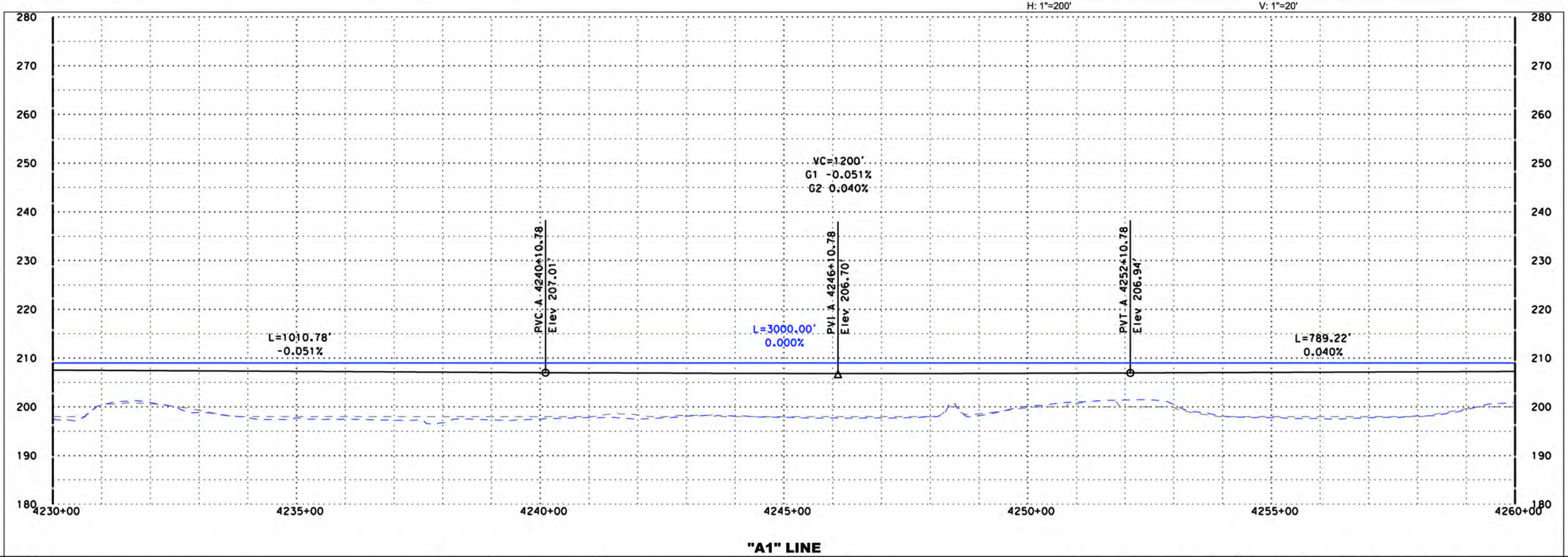


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4230+00.00 TO A1 4260+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1112
SCALE AS SHOWN
SHEET NO.

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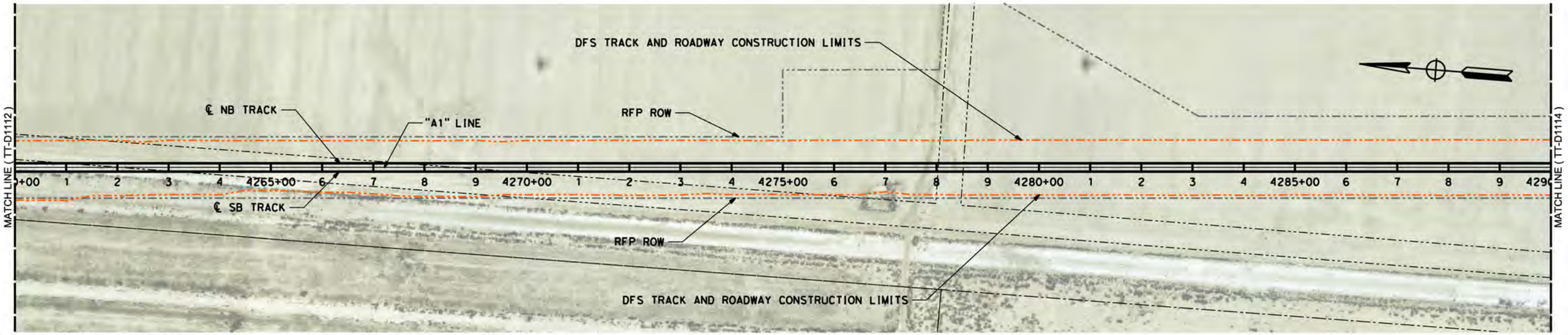
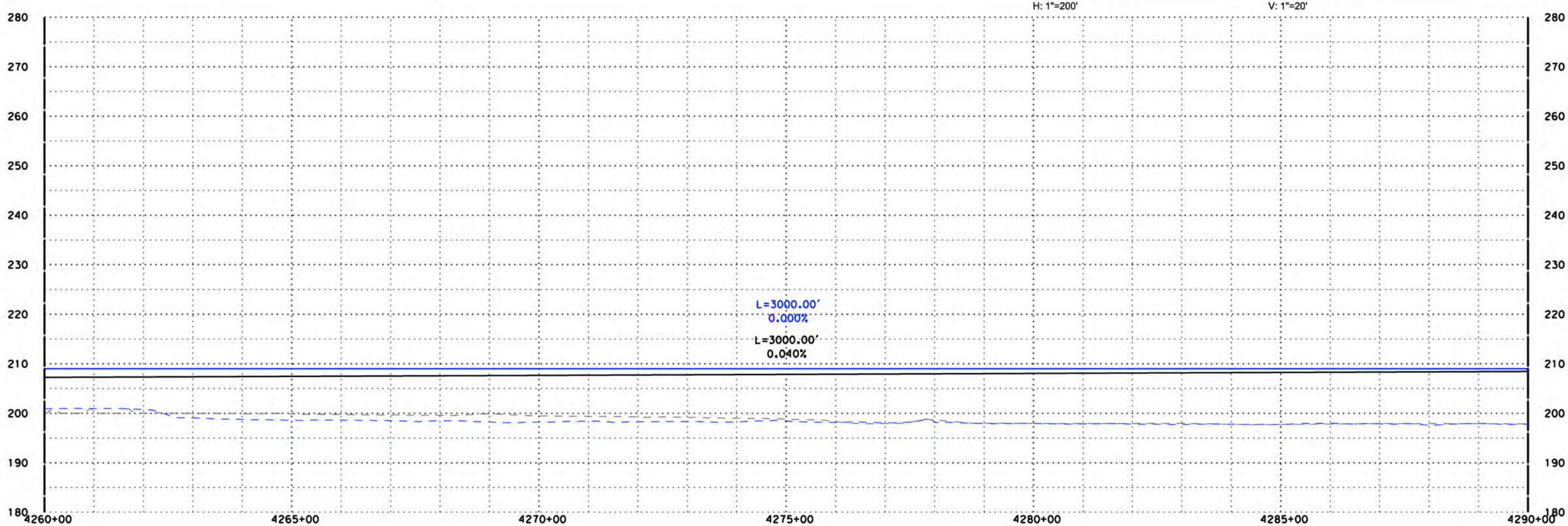


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"A1" LINE

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4260+00.00 TO A1 4290+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1113
SCALE AS SHOWN
SHEET NO.

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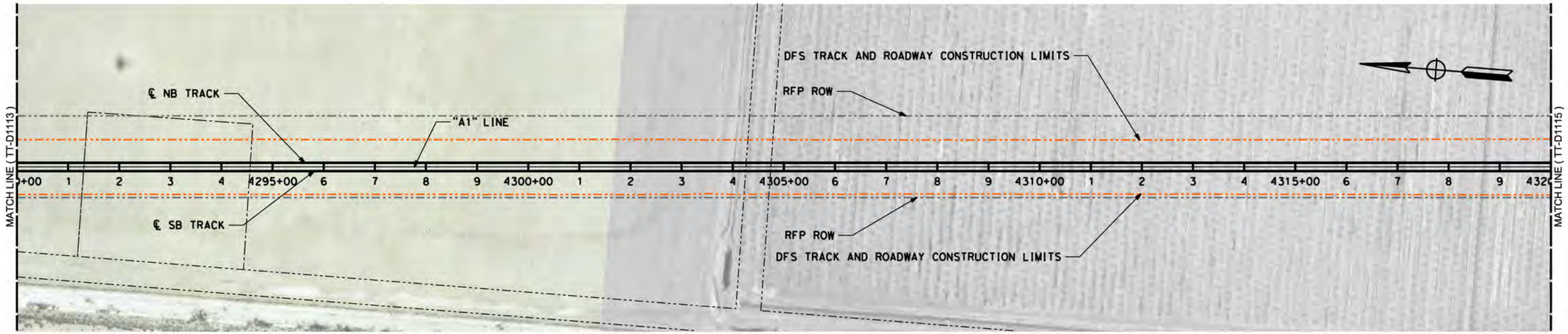
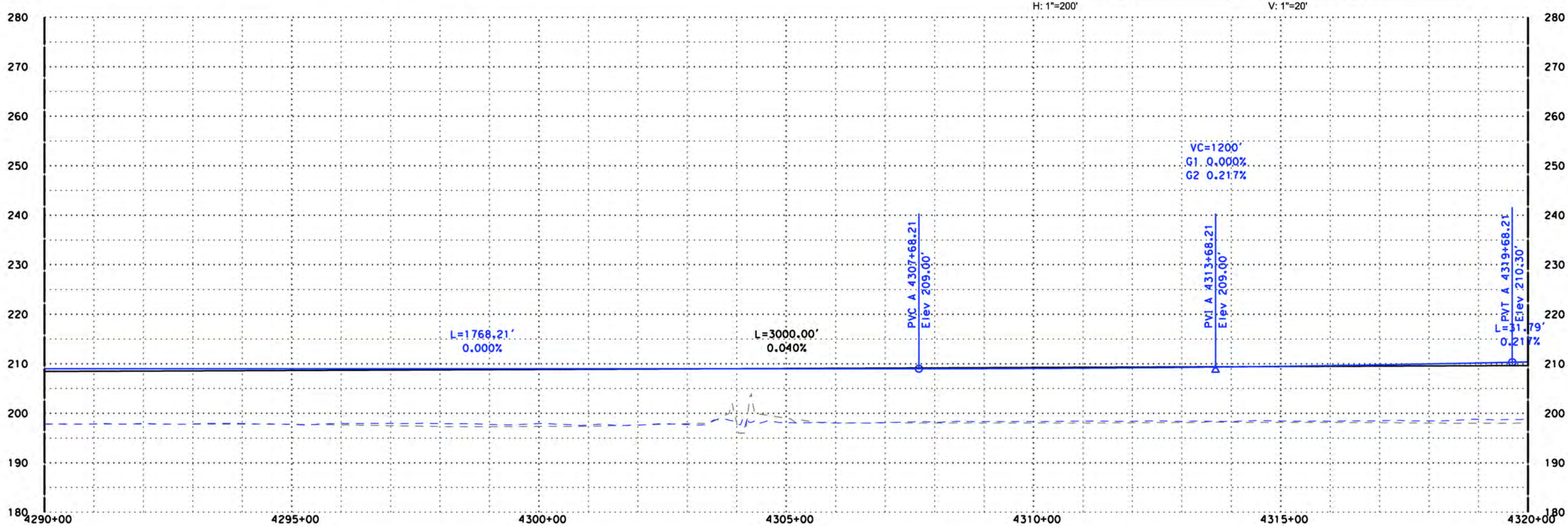


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4290+00.00 TO A1 4320+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1114
SCALE	AS SHOWN
SHEET NO.	

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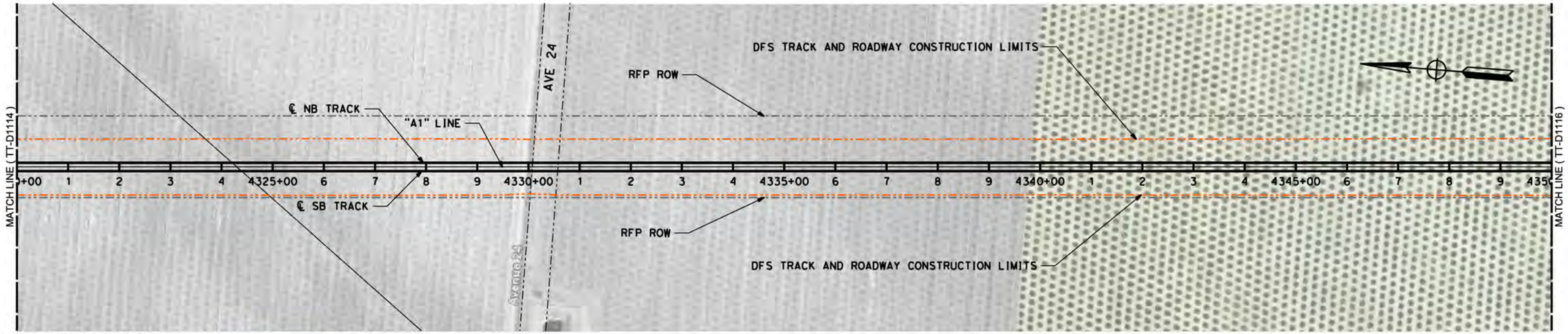
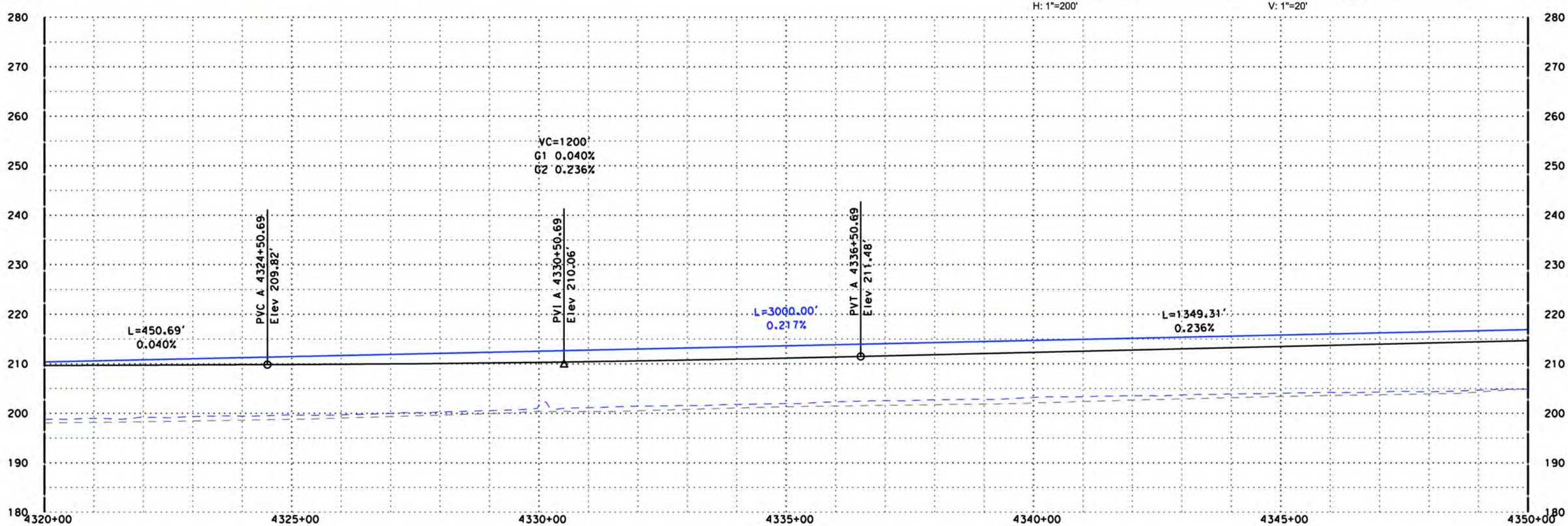


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"A1" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4320+00.00 TO A1 4350+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1115
SCALE AS SHOWN
SHEET NO.

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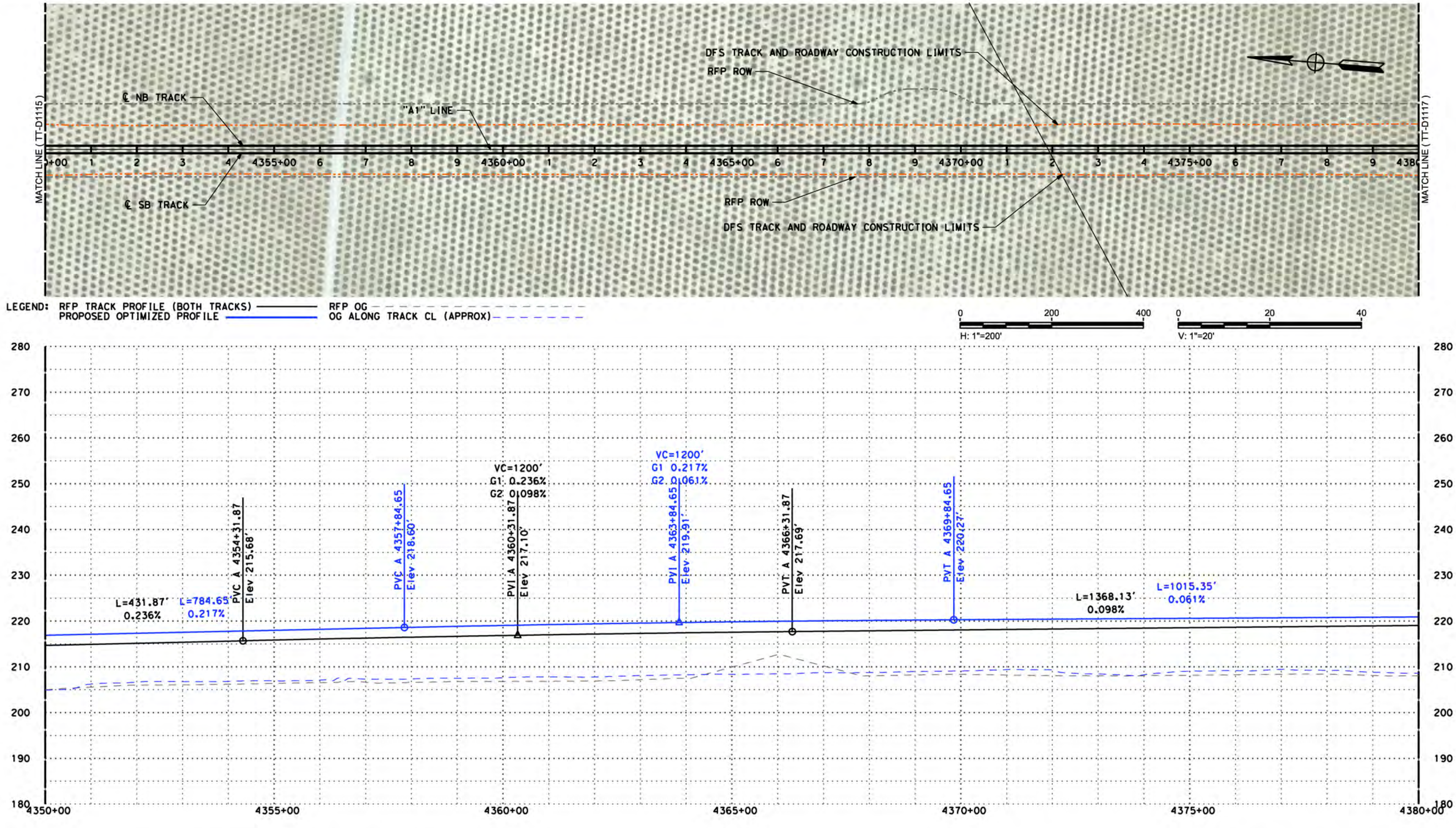

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DESIGNED BY	P. Barney
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4350+00.00 TO A1 4380+00.00

CONTRACT NO.	HSR 06-0003
DRAWING NO.	D1116
SCALE	AS SHOWN
SHEET NO.	

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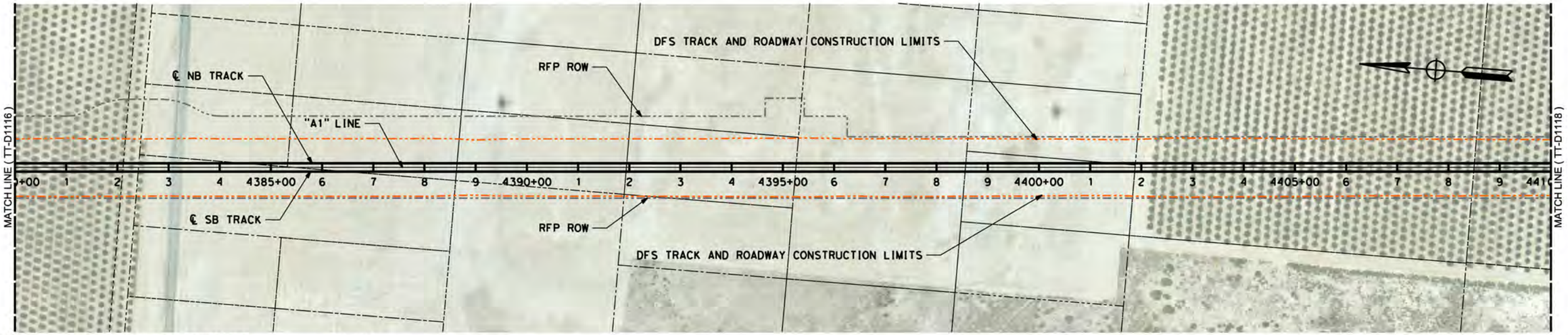
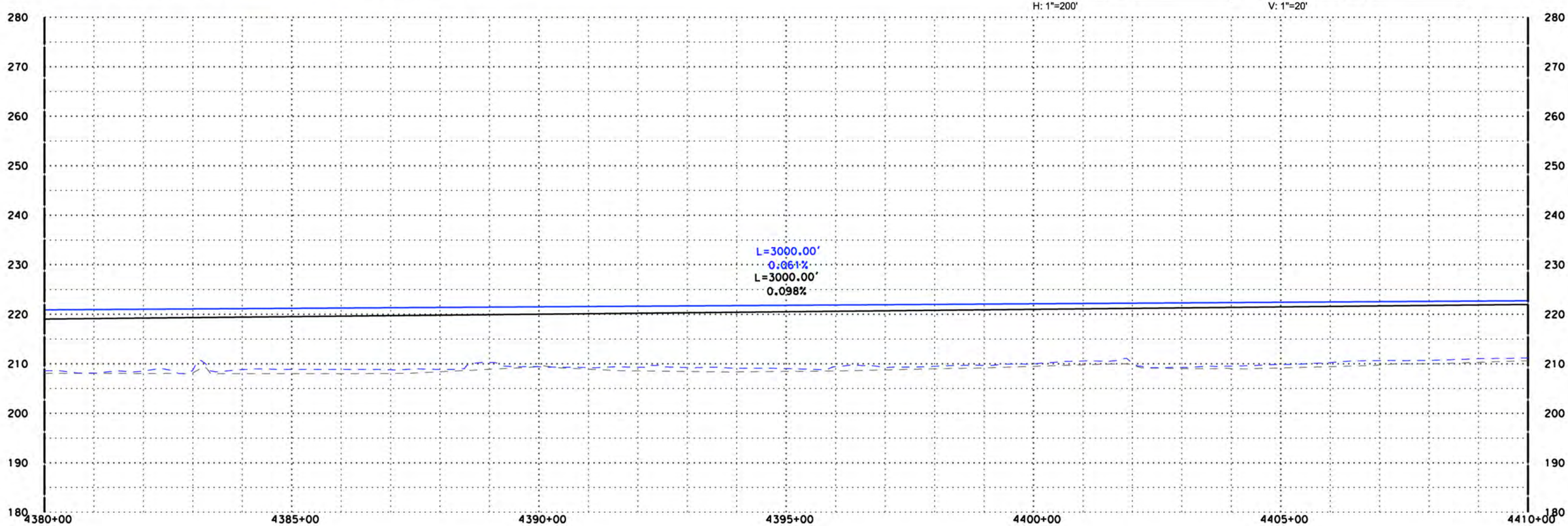


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

H: 1"=200' (0, 200, 400) V: 1"=20' (0, 20, 40)



"A1" LINE

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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4380+00.00 TO A1 4410+00.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1117
SCALE AS SHOWN
SHEET NO.

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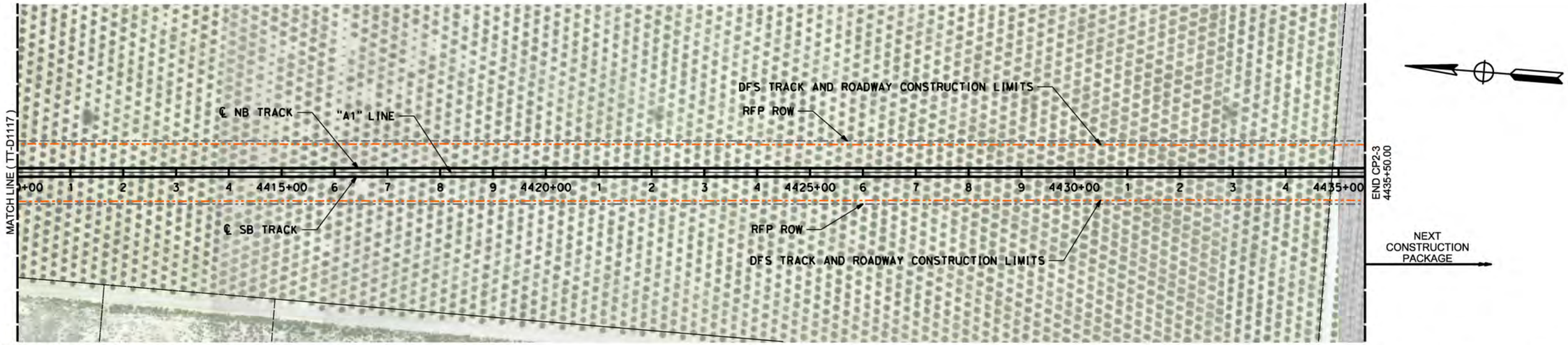
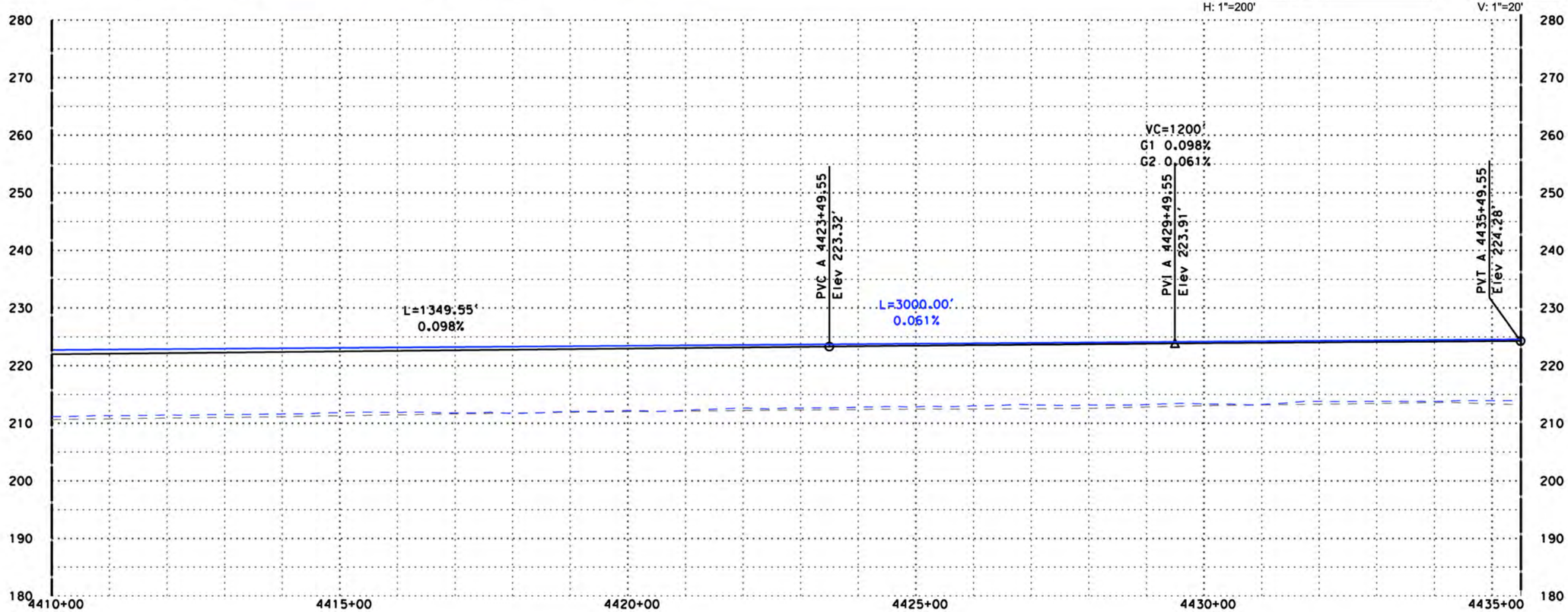


LEGEND: RFP TRACK PROFILE (BOTH TRACKS) — RFP OG
PROPOSED OPTIMIZED PROFILE — OG ALONG TRACK CL (APPROX)

0 200 400 H: 1"=200'

0 20 40 V: 1"=20'



"A1" LINE

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DESIGNED BY P. Barney
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT A1

PLAN AND PROFILE
A1 4410+00.00 TO A1 4435+50.00

CONTRACT NO. HSR 06-0003
DRAWING NO. D1118
SCALE AS SHOWN
SHEET NO.

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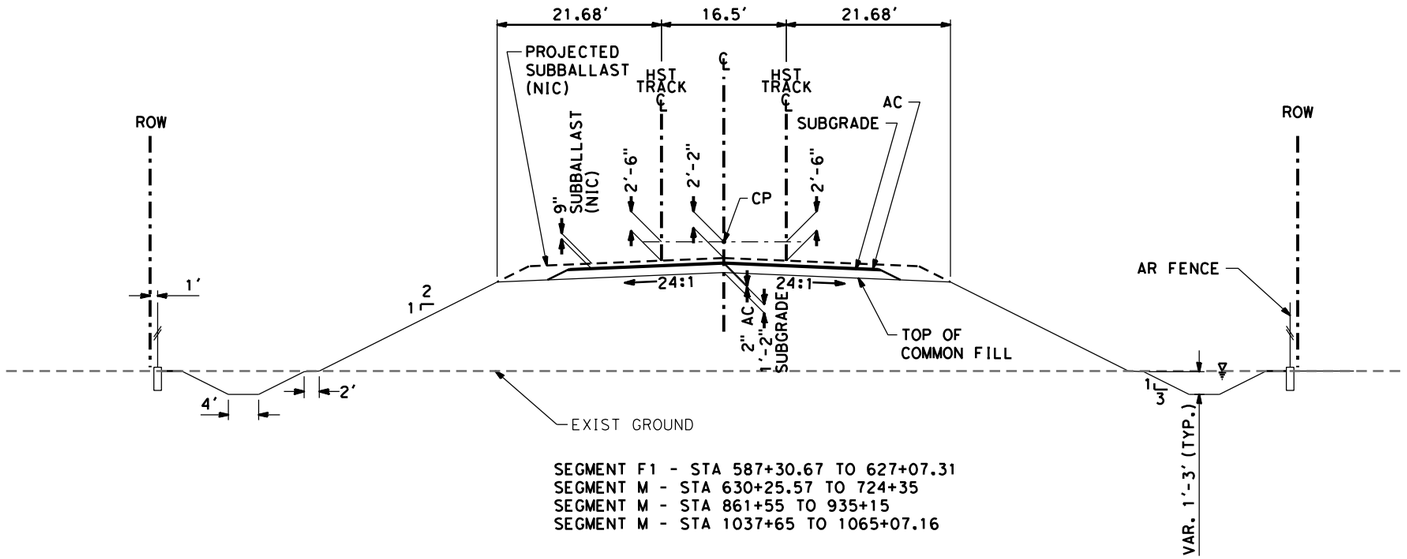


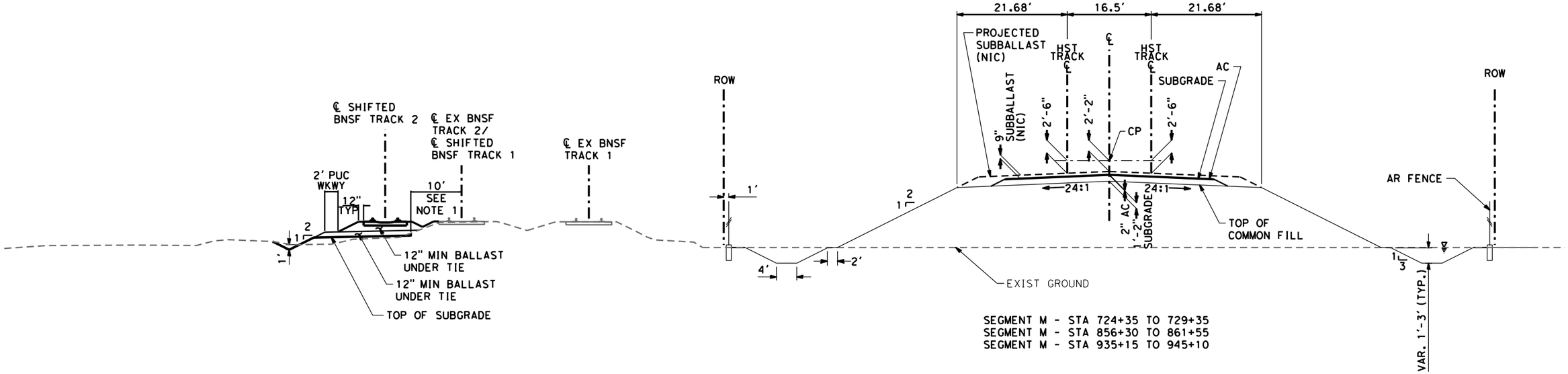
SEGMENT F1 - STA 587+30.67 TO 627+07.31
SEGMENT M - STA 630+25.57 TO 724+35
SEGMENT M - STA 861+55 TO 935+15
SEGMENT M - STA 1037+65 TO 1065+07.16

NOTES:

1. EXISTING BNSF TRACKS TO BE SHIFTED/REALIGNED UP TO 10', MATCH/EXTEND EXISTING SUBBALLAST TO CONSTRUCT SHIFTED TRACK.

2. EXISTING BNSF TRACK EMBANKMENT REMOVAL TO INCLUDE BALLAST, SUBBALLAST AND 12" BELOW SUBBALLAST. EXISTING BNSF EMBANKMENT IS CONSIDERED CONTAMINATED SOIL.

3. WHERE OCCURS, EXTEND 2% SUBBALLAST LAYER FOR ADDITIONAL SIDING/INDUSTRY TRACKS. T/R PROFILE FOR ADDITIONAL TRACKS IS LOWER THAN ADJACENT MAIN TRACK TO MAINTAIN 12" MIN BALLAST DEPTH UNDER TIE.



SEGMENT M - STA 724+35 TO 729+35
SEGMENT M - STA 856+30 TO 861+55
SEGMENT M - STA 935+15 TO 945+10

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DESIGNED BY	M.LOPEZ-DUBOIS
DRAWN BY	B. KIDD
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	07/02/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT M
TYPICAL SECTIONS

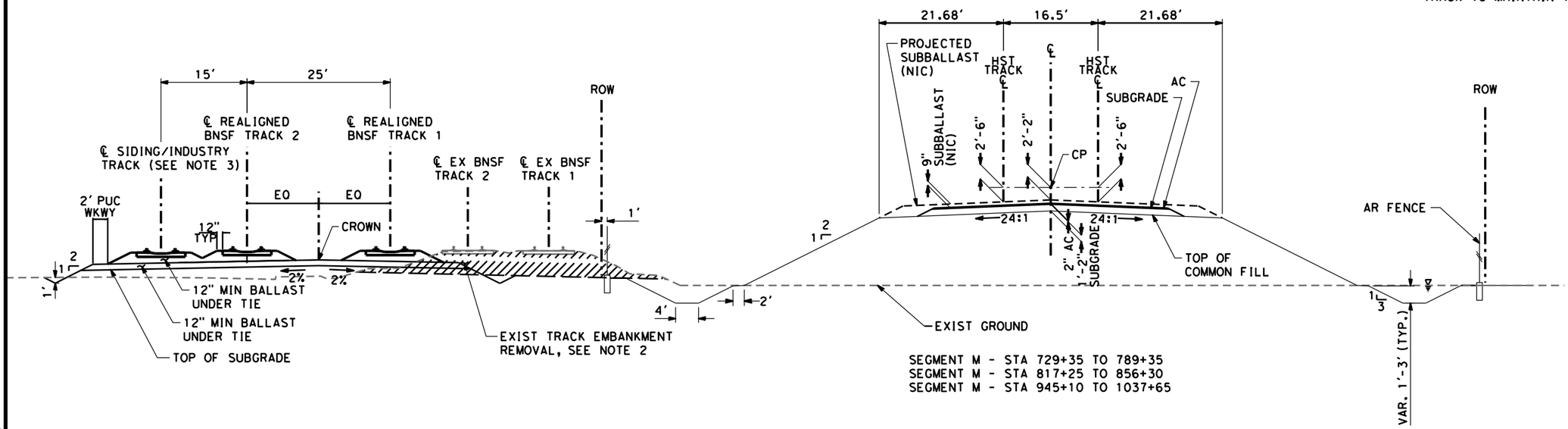
CONTRACT NO.	HST 06-0003
DRAWING NO.	T1001
SCALE	AS SHOWN
SHEET NO.	

partingtonsa 10/13/2014 7:20:12 PM c:\pwworking\nai\partingtonsa\d0167585\TYPICALS_T1001.dgn

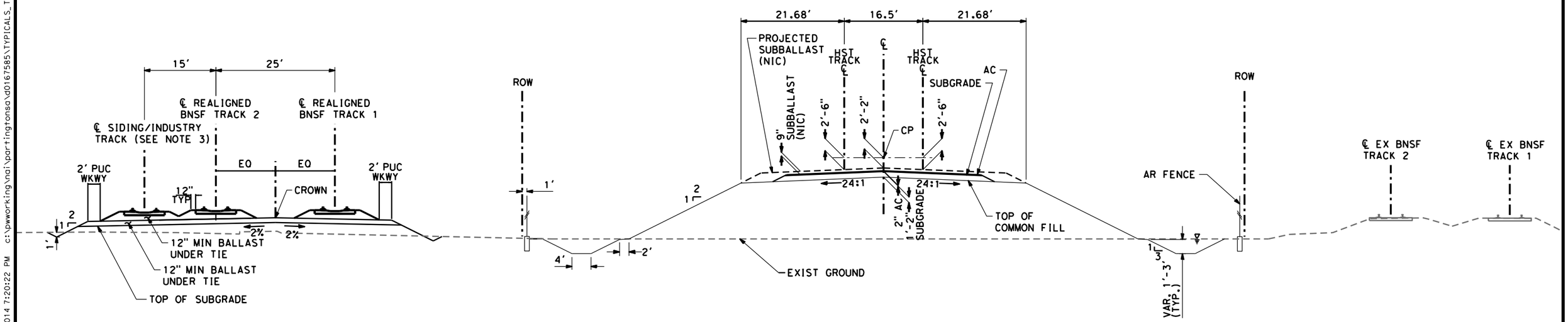
NOTES:
1. EXISTING BNSF TRACKS TO BE SHIFTED/REALIGNED UP TO 10', MATCH/EXTEND EXISTING SUBBALLAST TO CONSTRUCT SHIFTED TRACK.

2. EXISTING BNSF TRACK EMBANKMENT REMOVAL TO INCLUDE BALLAST, SUBBALLAST AND 12" BELOW SUBBALLAST. EXISTING BNSF EMBANKMENT IS CONSIDERED CONTAMINATED SOIL.

3. WHERE OCCURS, EXTEND 2% SUBBALLAST LAYER FOR ADDITIONAL SIDING/INDUSTRY TRACKS. T/R PROFILE FOR ADDITIONAL TRACKS IS LOWER THAN ADJACENT MAIN TRACK TO MAINTAIN 12" MIN BALLAST DEPTH UNDER TIE.



SEGMENT M - STA 729+35 TO 789+35
SEGMENT M - STA 817+25 TO 856+30
SEGMENT M - STA 945+10 TO 1037+65



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DESIGNED BY	M.LOPEZ-DUBOIS
DRAWN BY	B. KIDD
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	07/02/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT M
TYPICAL SECTIONS

CONTRACT NO.	HST 06-0003
DRAWING NO.	T1002
SCALE	AS SHOWN
SHEET NO.	

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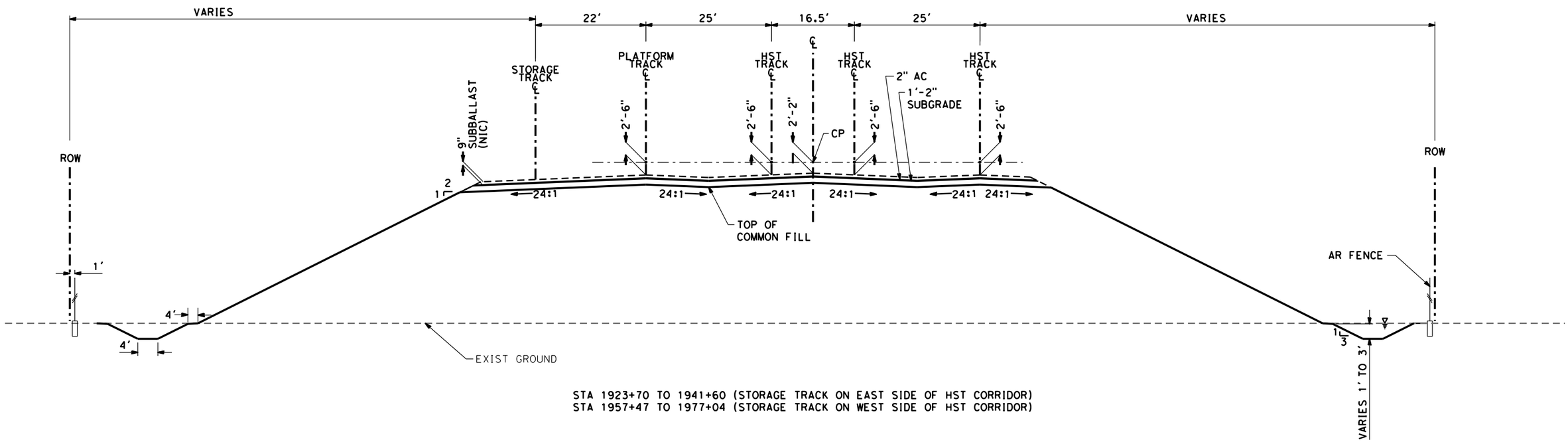

STA 1923+70 TO 1941+60 (STORAGE TRACK ON EAST SIDE OF HST CORRIDOR)
STA 1957+47 TO 1977+04 (STORAGE TRACK ON WEST SIDE OF HST CORRIDOR)

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DESIGNED BY M.LOPEZ-DUBOIS
DRAWN BY B. KIDD
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 07/02/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
TYPICAL SECTIONS
ATC 17

CONTRACT NO. HST 06-0003
DRAWING NO. T1004
SCALE AS SHOWN
SHEET NO.

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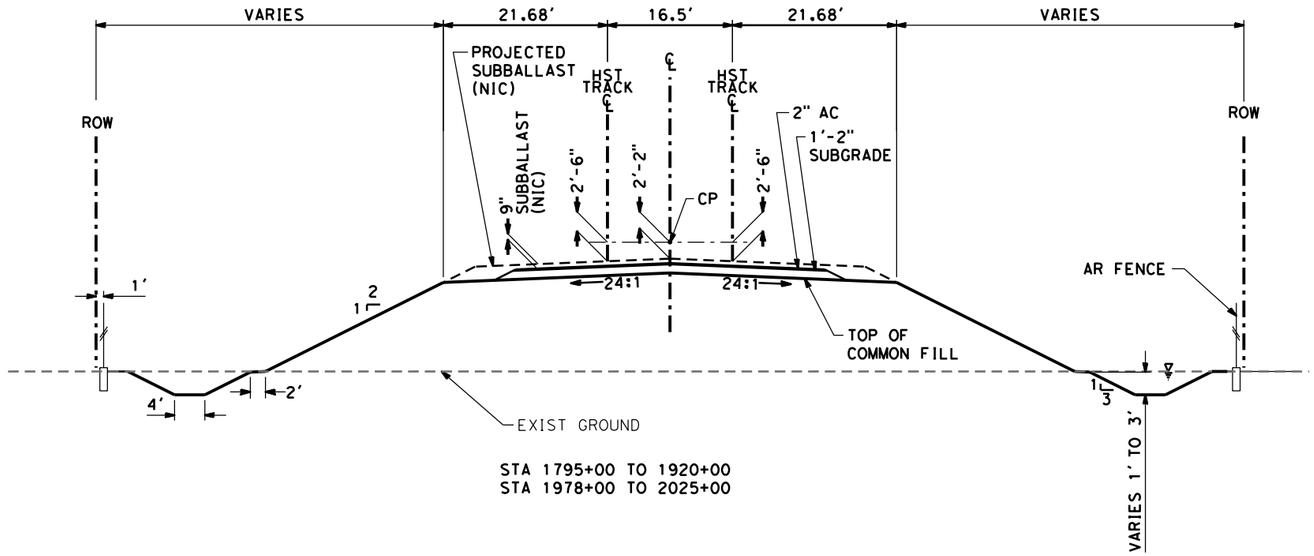

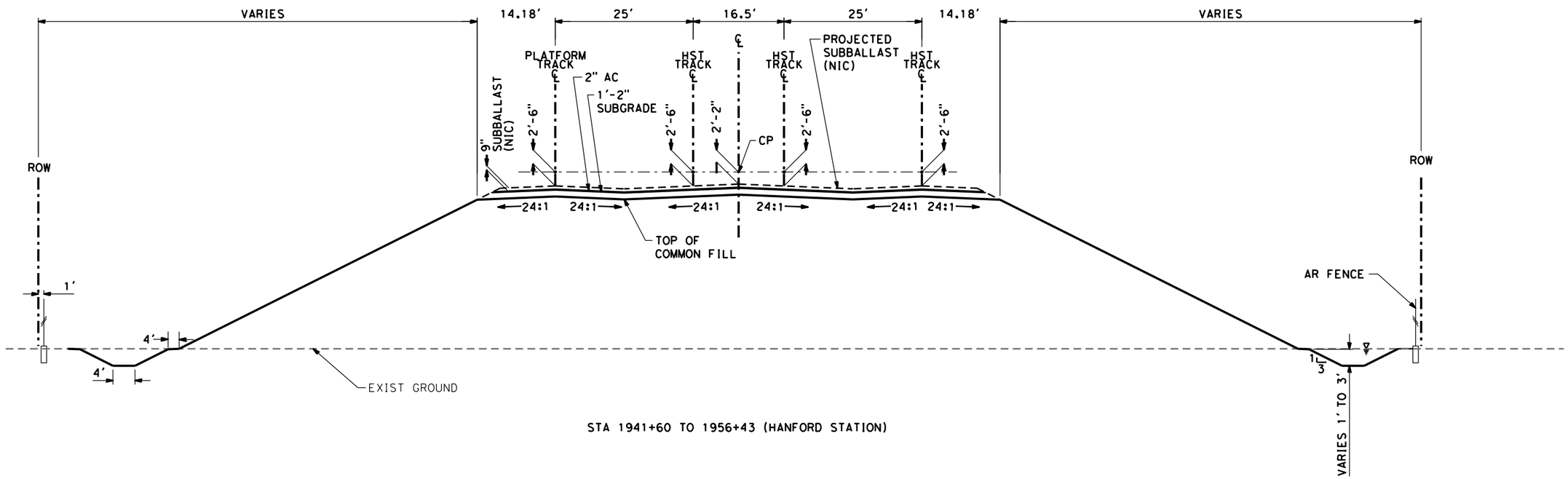

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DRAWN BY	B. KIDD
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	07/02/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
TYPICAL SECTIONS

ATC 17

CONTRACT NO.	HST 06-0003
DRAWING NO.	T1005
SCALE	AS SHOWN
SHEET NO.	

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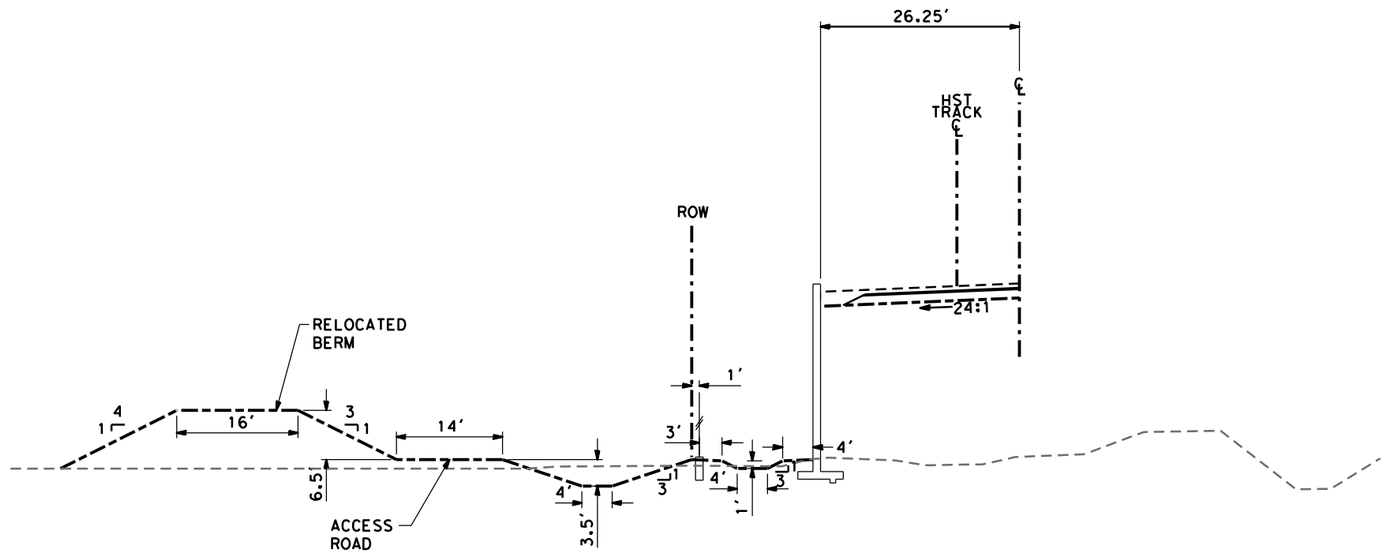
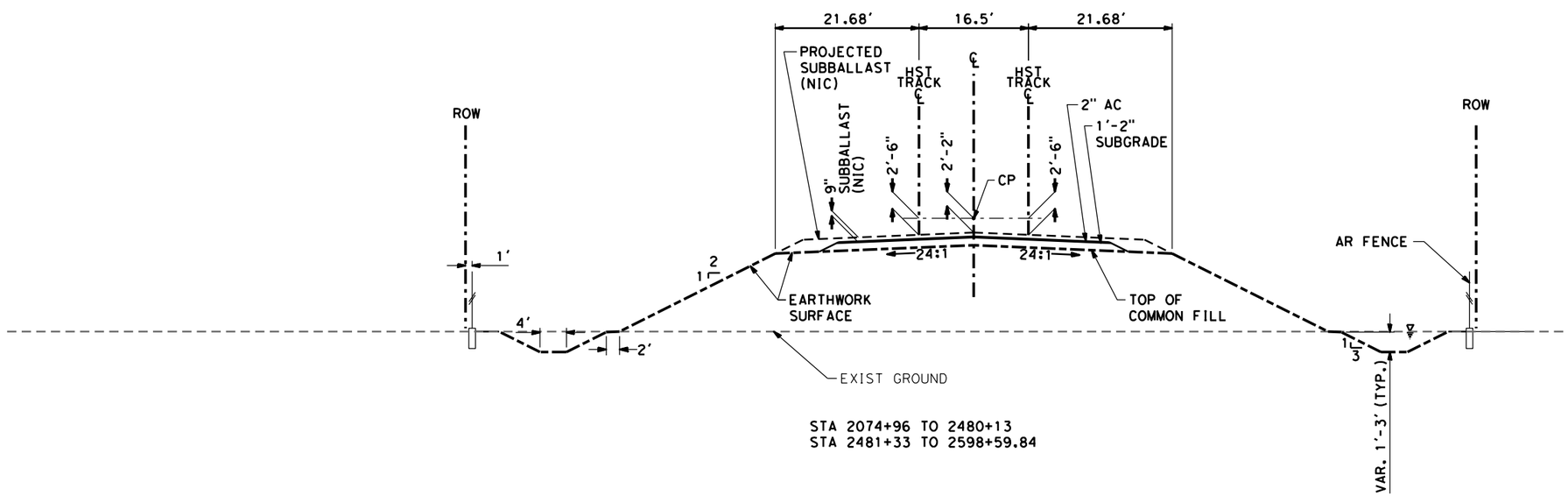


RELOCATED BERM/ACCESS ROAD
STA 2530+00 TO 2570+00



STA 2074+96 TO 2480+13
STA 2481+33 TO 2598+59.84

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DRAWN BY	B. KIDD
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	07/02/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT K4
TYPICAL SECTIONS

CONTRACT NO.	HST 06-0003
DRAWING NO.	T1016
SCALE	AS SHOWN
SHEET NO.	

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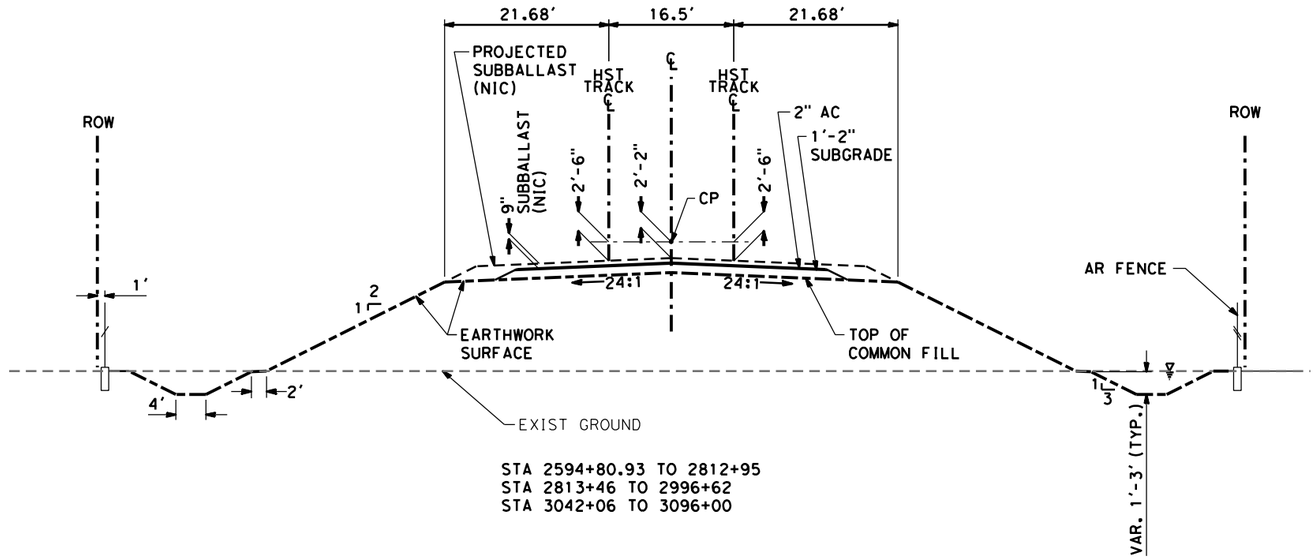
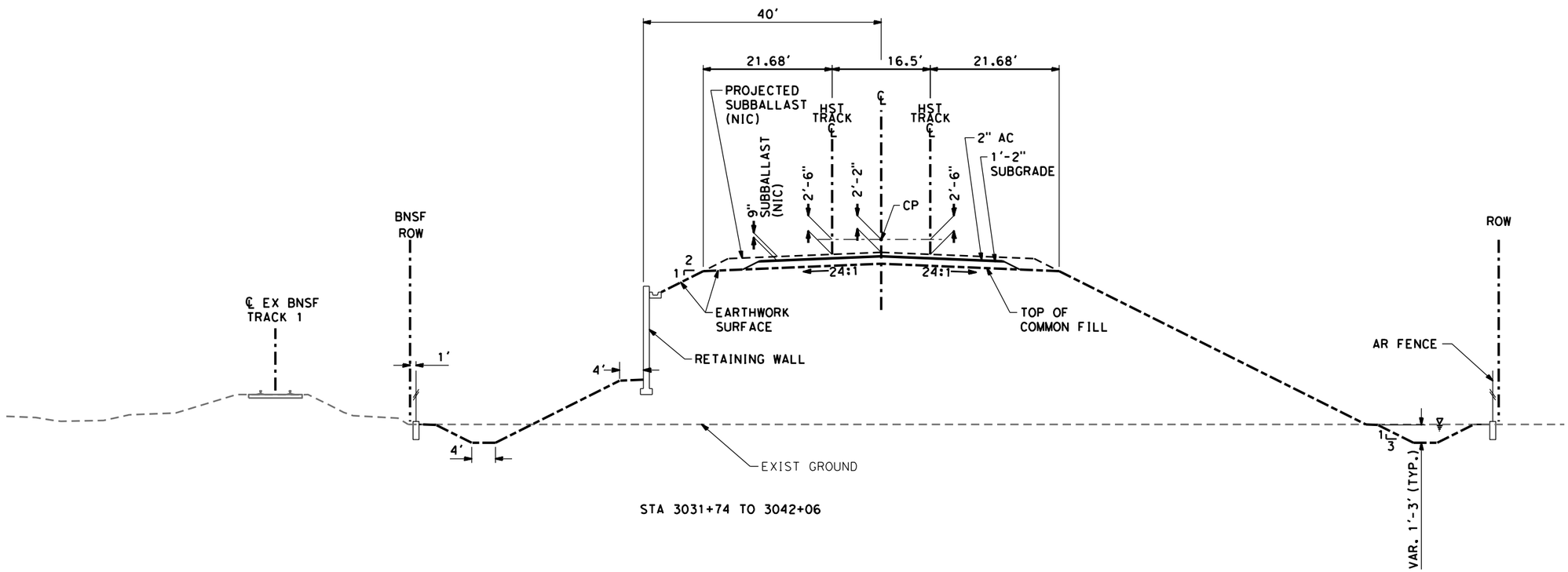


STA 2594+80.93 TO 2812+95
STA 2813+46 TO 2996+62
STA 3042+06 TO 3096+00



STA 3031+74 TO 3042+06

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DRAWN BY	M.LOPEZ-DUBOIS
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	07/02/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT C2
TYPICAL SECTIONS

CONTRACT NO.	HST 06-0003
DRAWING NO.	T1007
SCALE	AS SHOWN
SHEET NO.	

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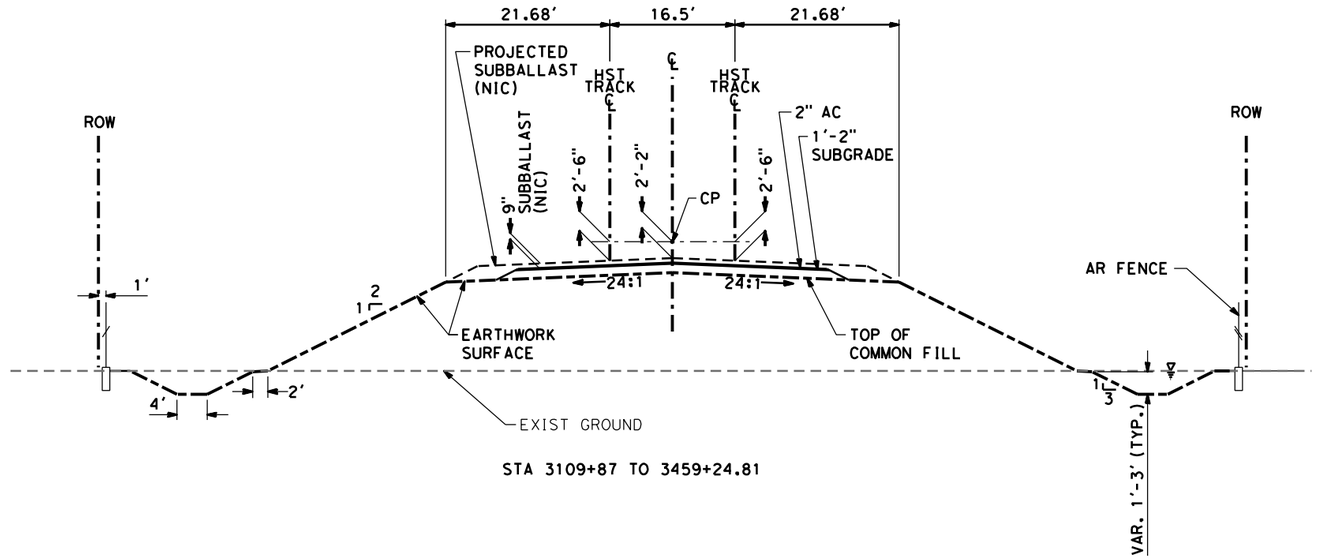
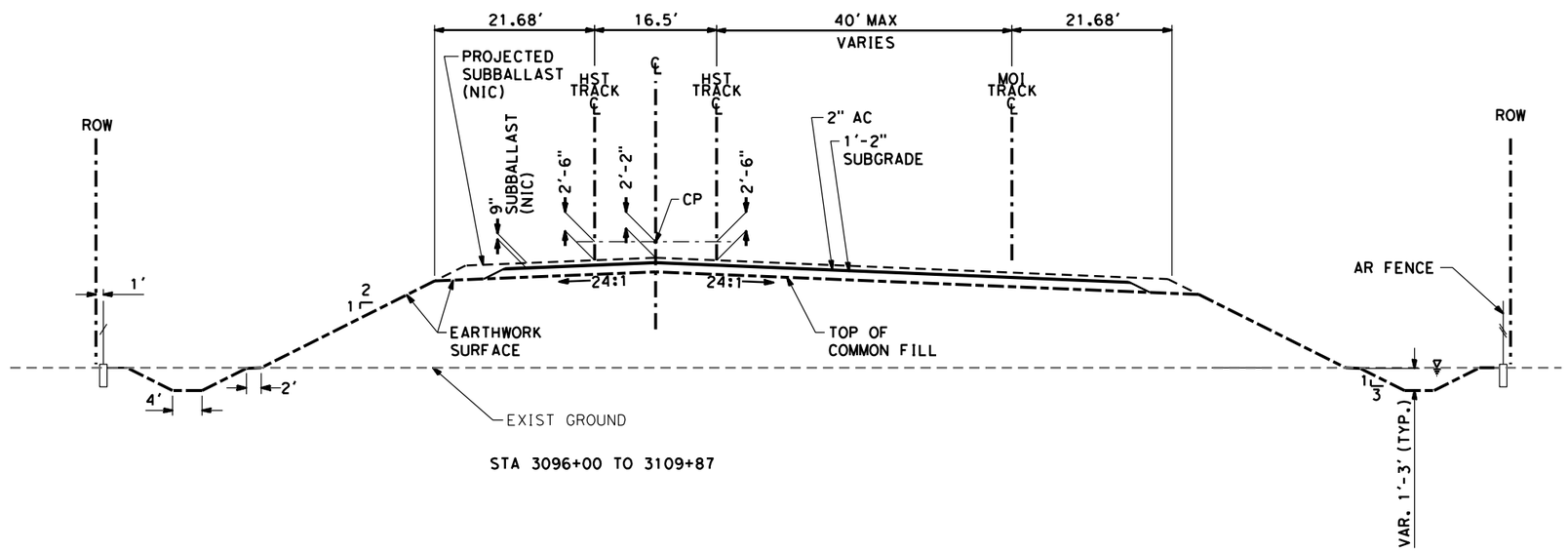


STA 3109+87 TO 3459+24.81



STA 3096+00 TO 3109+87

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DRAWN BY	P. BARNEY
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	07/02/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

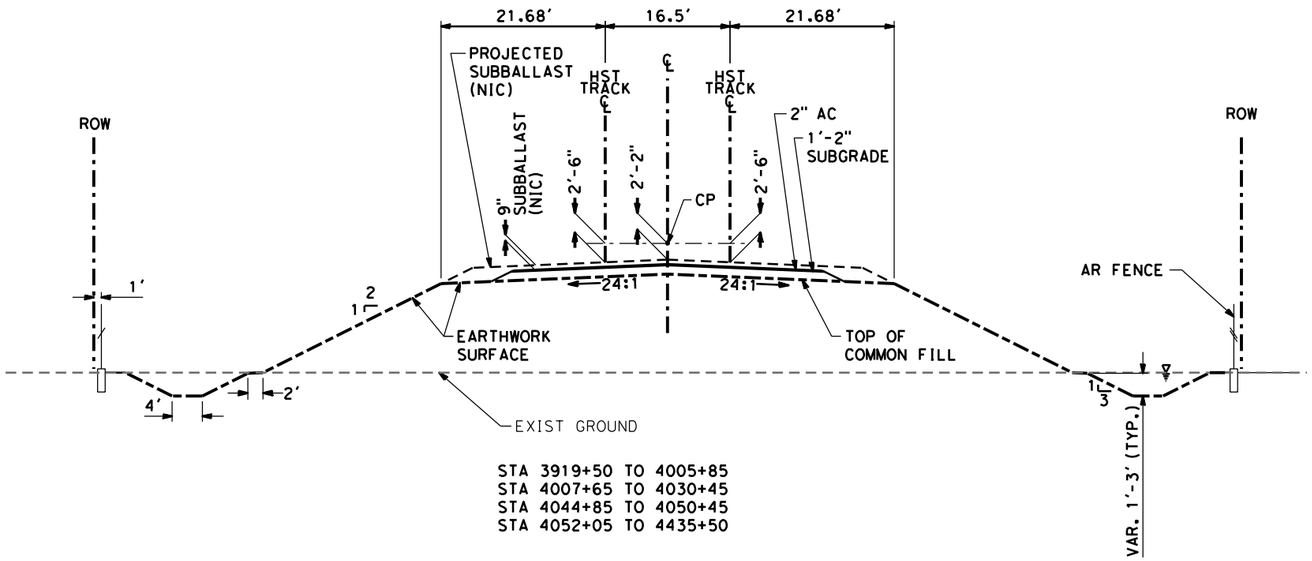
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
SJVRR
TYPICAL SECTIONS

CONTRACT NO.	HST 06-0003
DRAWING NO.	T1008
SCALE	AS SHOWN
SHEET NO.	

partingtonsa 10/13/2014 7:21:13 PM c:\pwworking\nai\partingtonsa\d0167585\TYPICALS_T1008.dgn



STA 3919+50 TO 4005+85
STA 4007+65 TO 4030+45
STA 4044+85 TO 4050+45
STA 4052+05 TO 4435+50

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DESIGNED BY M.LOPEZ-DUBOIS
DRAWN BY P. BARNEY
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 07/02/14

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-
NOT FOR CONSTRUCTION

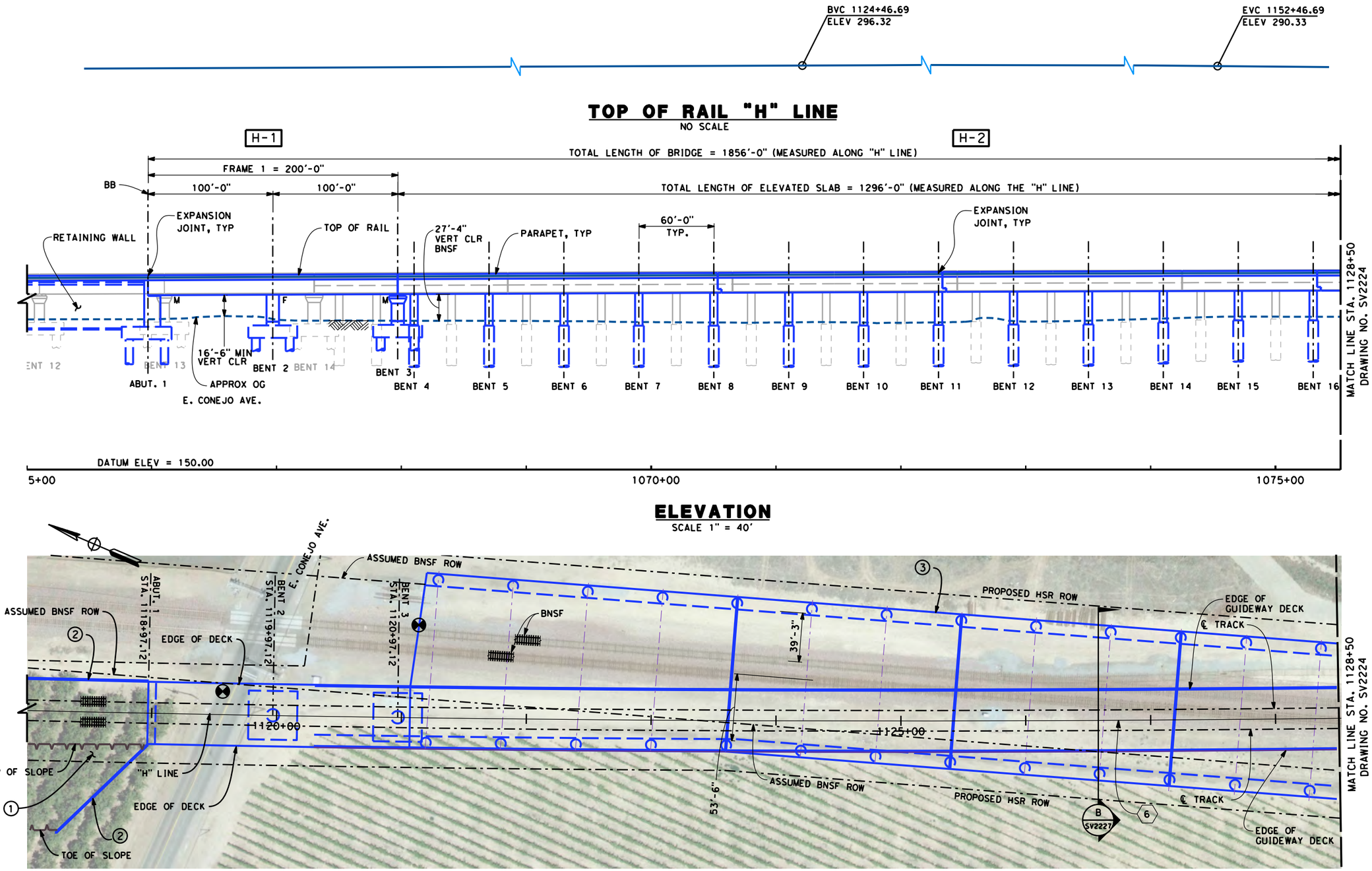
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT P/A1
TYPICAL SECTIONS

CONTRACT NO. HST 06-0003
DRAWING NO. T1009
SCALE AS SHOWN
SHEET NO.

partingtonsa 10/14/2014 2:04:48 PM c:\pwworking\nai\partingtonsa\d0167585\TYPICALS_T1009.dgn



NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

1. CEMENT TREATED STRUCTURE BACKFILL
2. RETAINING WALL
3. ARCHITECTURAL TREATMENT PANELS

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

POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED

CURVE DATA

6

R = 29000.00'
Δ = 37° 42' 29.3"
T = 9903.0'
L = 19085.8'

40 0 40 80
1"=40'

DISCLAIMER:
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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANDFORD SUBSECTION
ALIGNMENT H
CONEJO VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2223
SCALE	AS SHOWN
SHEET NO.	4 OF 8

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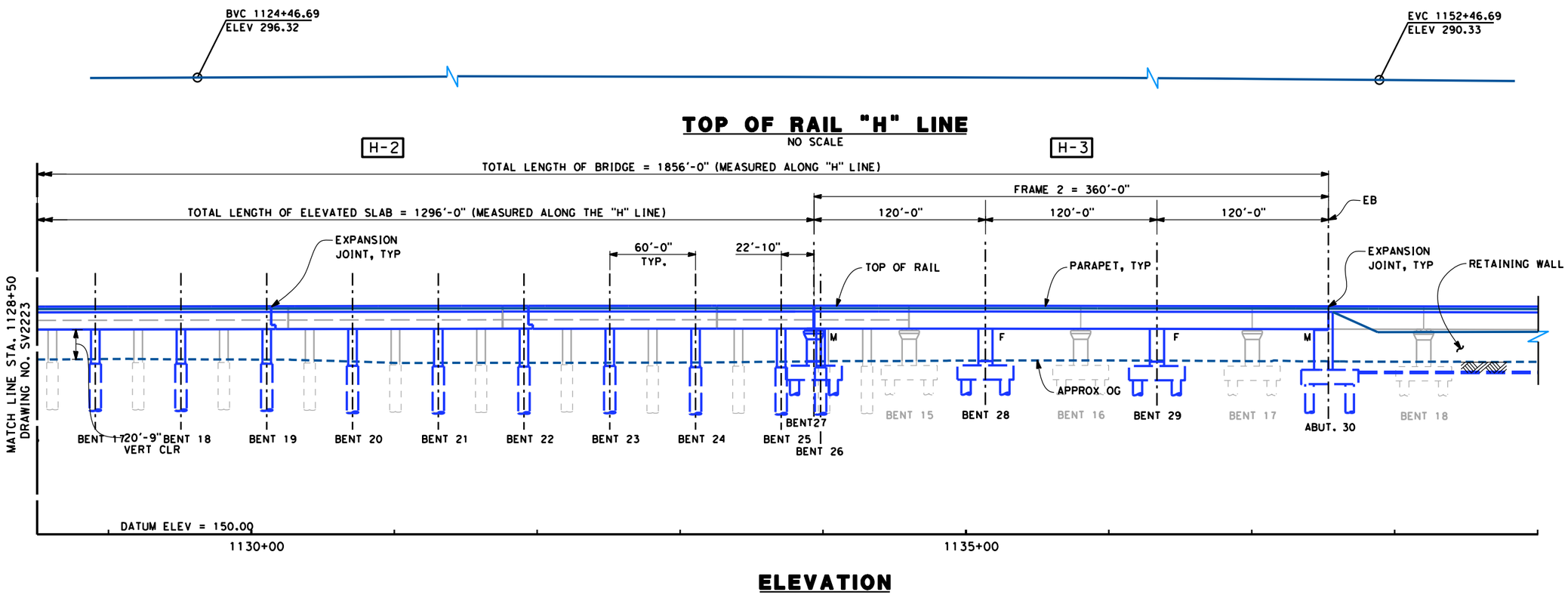
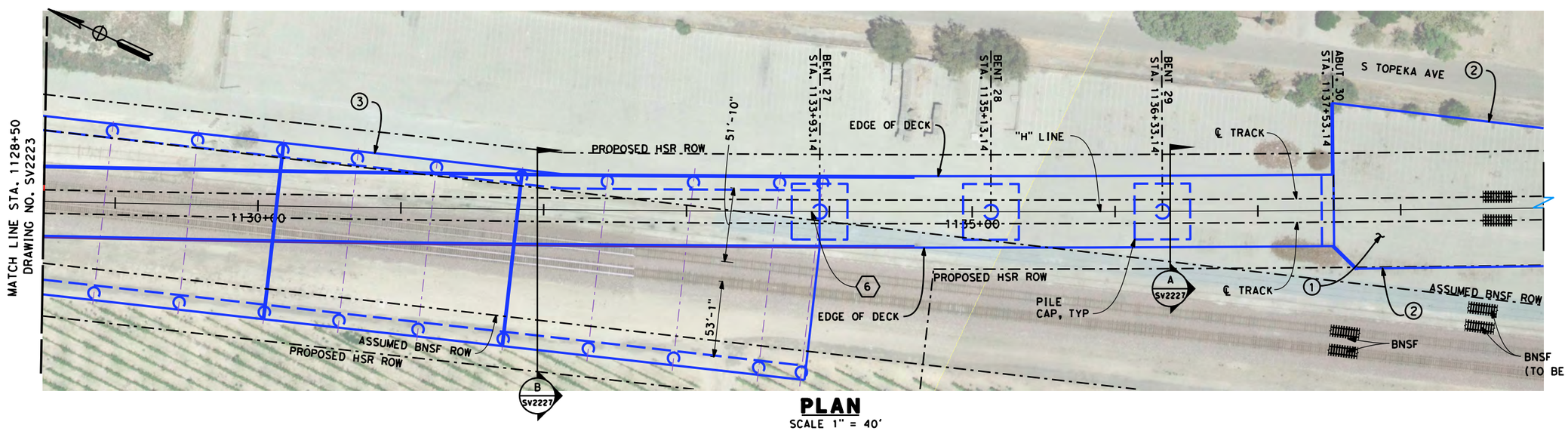
dreeszega



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

1. CEMENT TREATED STRUCTURE BACKFILL
2. RETAINING WALL
3. ARCHITECTURAL TREATMENT PANELS

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

POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED

CURVE DATA

6

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T = 9903.0'
L = 19085.8'

40 0 40 80
1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
CONEJO VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2224
SCALE	AS SHOWN
SHEET NO.	5 OF 8

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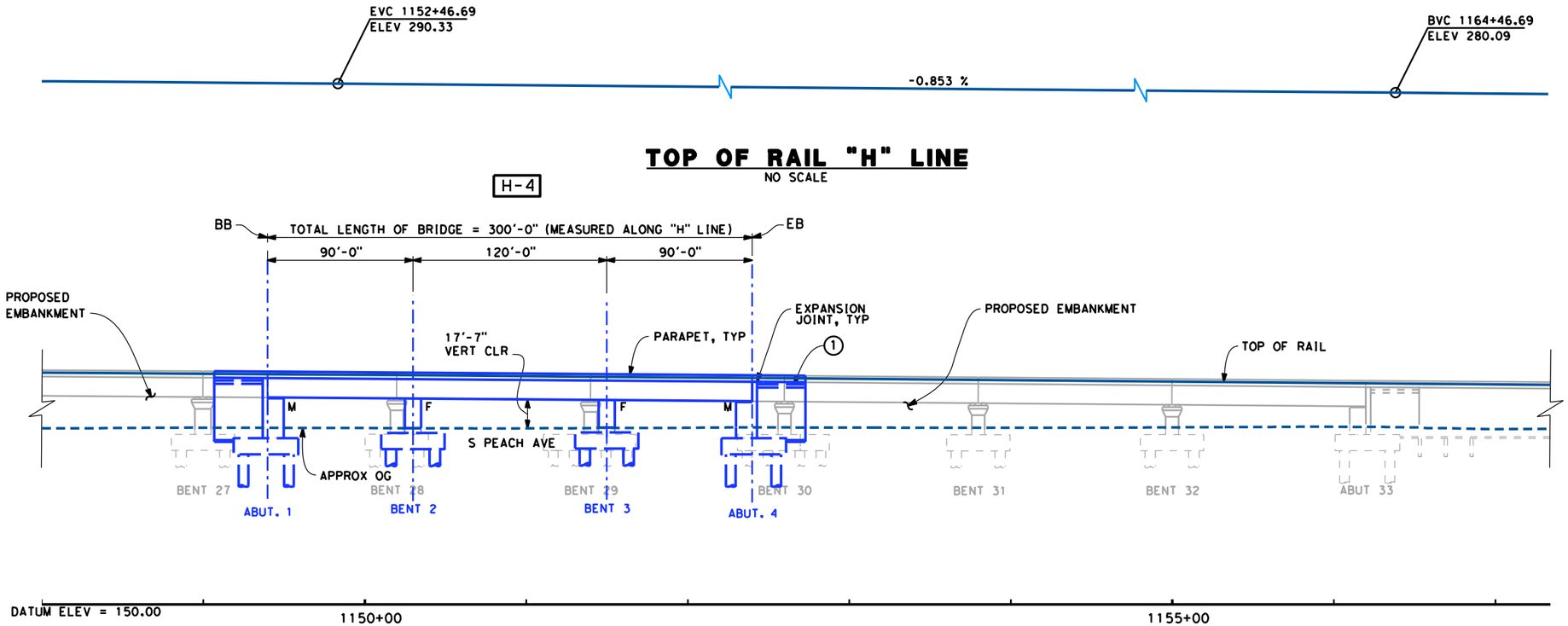
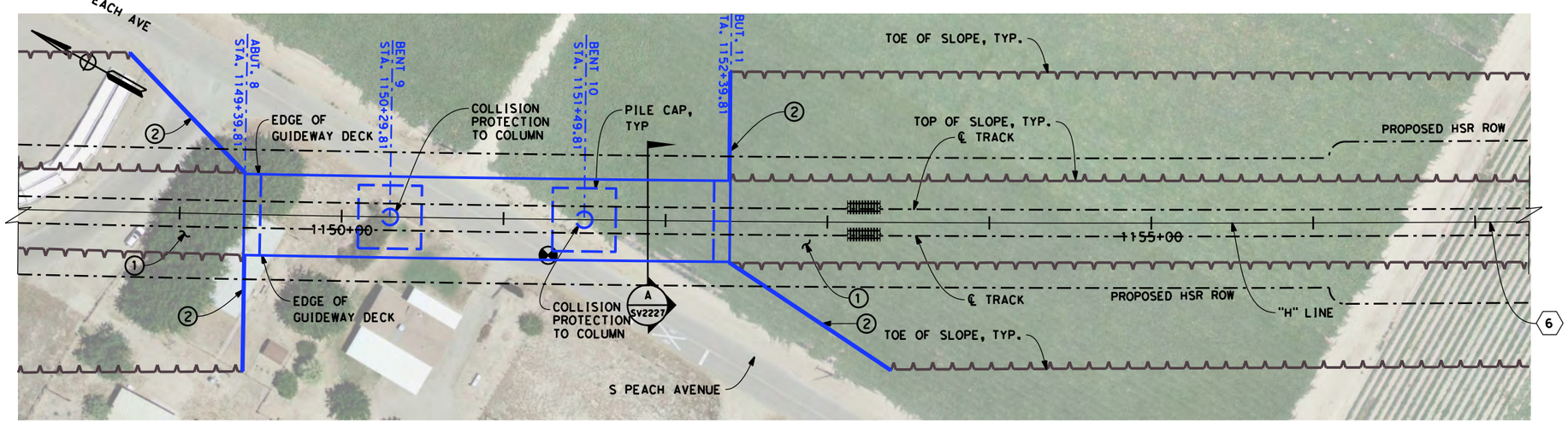
dreeszega



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED

CURVE DATA

(6)

R = 29000.00'
Δ = 37° 42' 29.3"
T = 9903.0'
L = 19085.8'

40 0 40 80
1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
CONEJO VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2226
SCALE	AS SHOWN
SHEET NO.	7 OF 8

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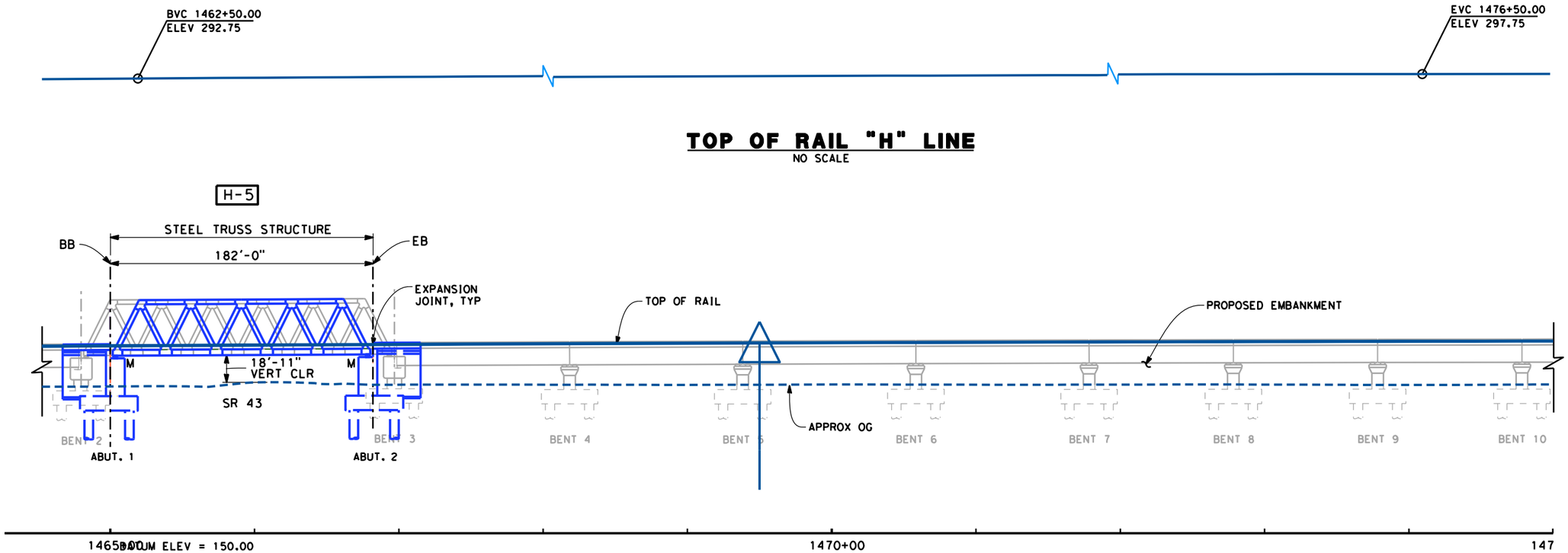
dreeszega



NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED

CURVE DATA

(7)

R = 36500.00'
Δ = 58° 05' 38.8"
T = 20271.5'
L = 37008.6'

40 0 40 80
1"=40'

DISCLAIMER:
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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
KINGS RIVER VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2260
SCALE	AS SHOWN
SHEET NO.	3 OF 18

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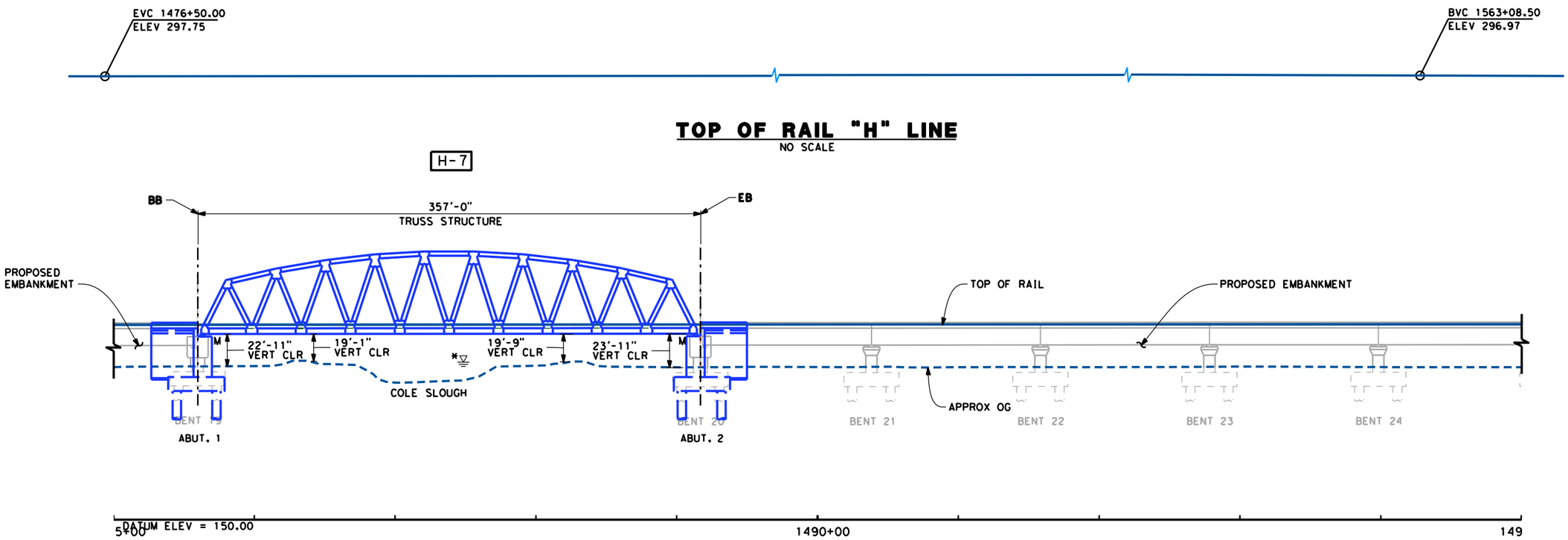
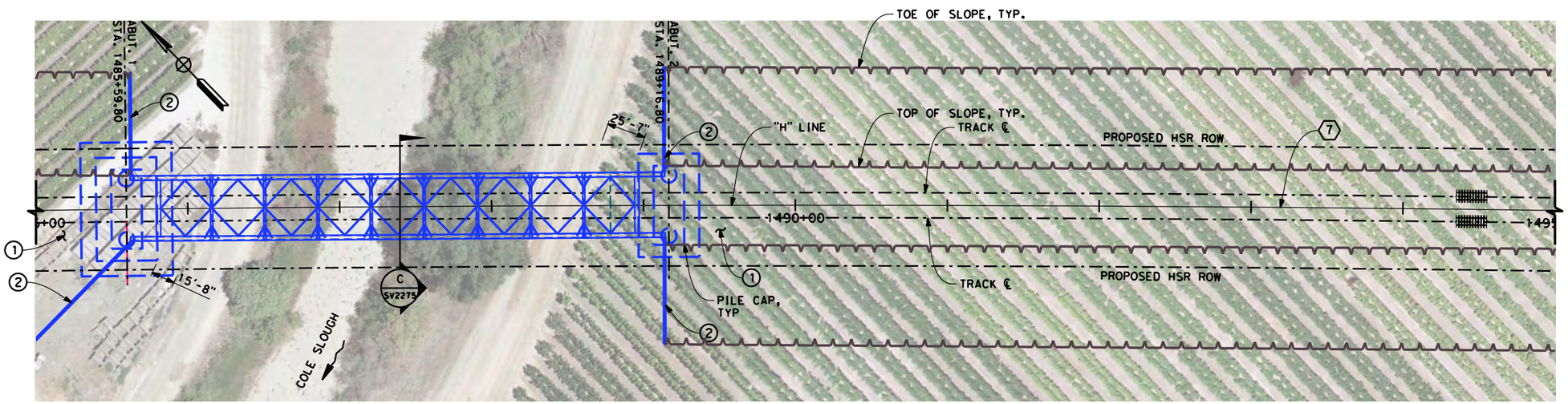
dreeszega



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:
(1) CEMENT TREATED STRUCTURE BACKFILL
(2) RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".
⊗ POINT OF MINIMUM CLEARANCE
RFP DESIGN
DFS PROPOSED

CURVE DATA
(7)
R = 36500.00'
Δ = 58° 05' 38.8"
T = 20271.5'
L = 37008.6'

40 0 40 80
1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
KINGS RIVER VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2262
SCALE	AS SHOWN
SHEET NO.	5 OF 18

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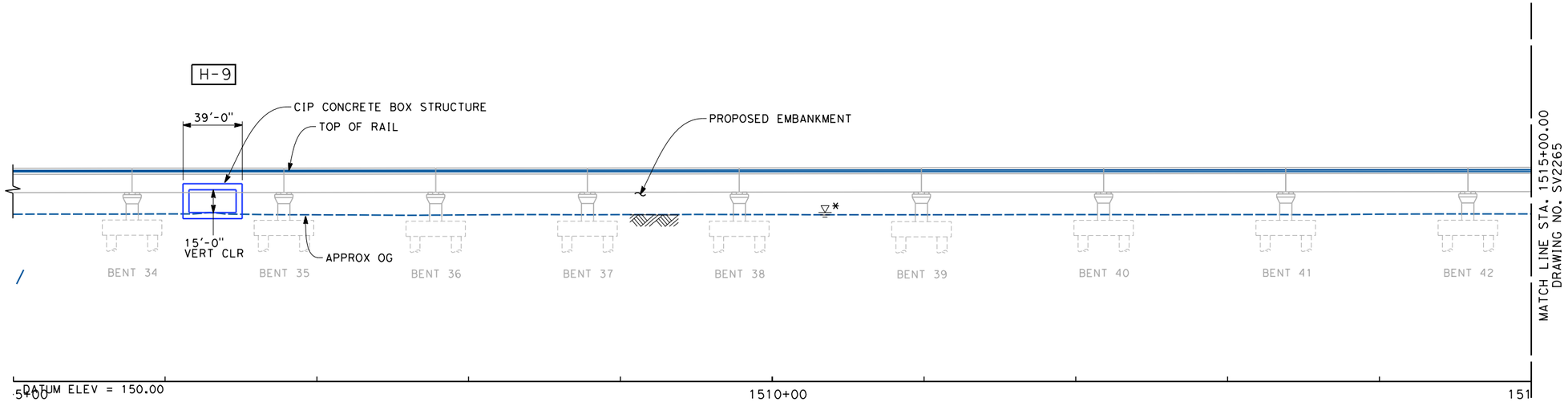
dreeszega

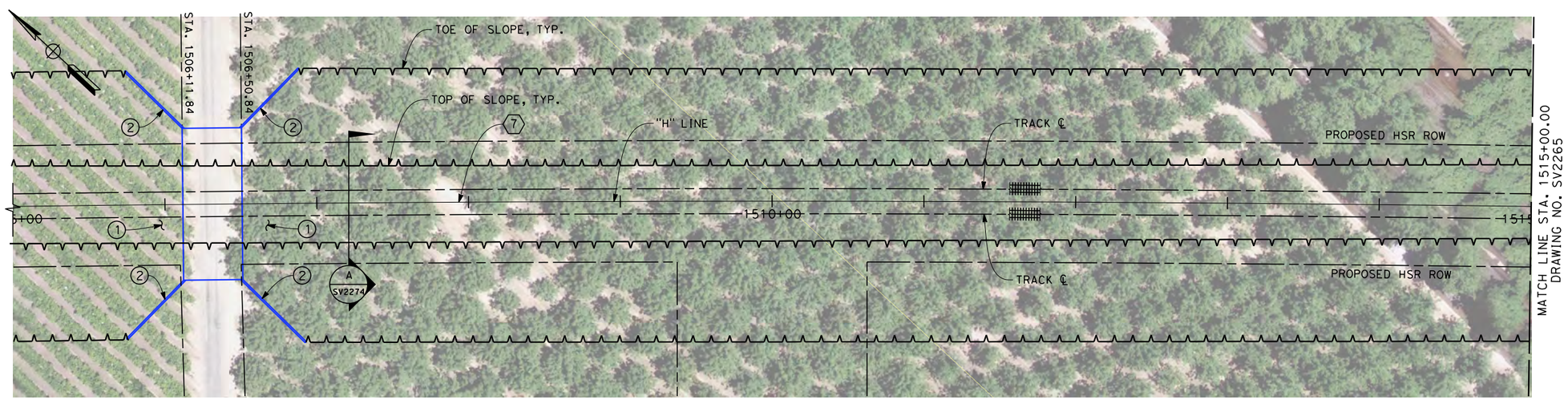
TOP OF RAIL "H" LINE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED

CURVE DATA

(7)

R = 36500.00'
Δ = 58° 05' 38.8"
T = 20271.5'
L = 37008.6'

40 0 40 80
1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
KINGS RIVER VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2264
SCALE	AS SHOWN
SHEET NO.	7 OF 18

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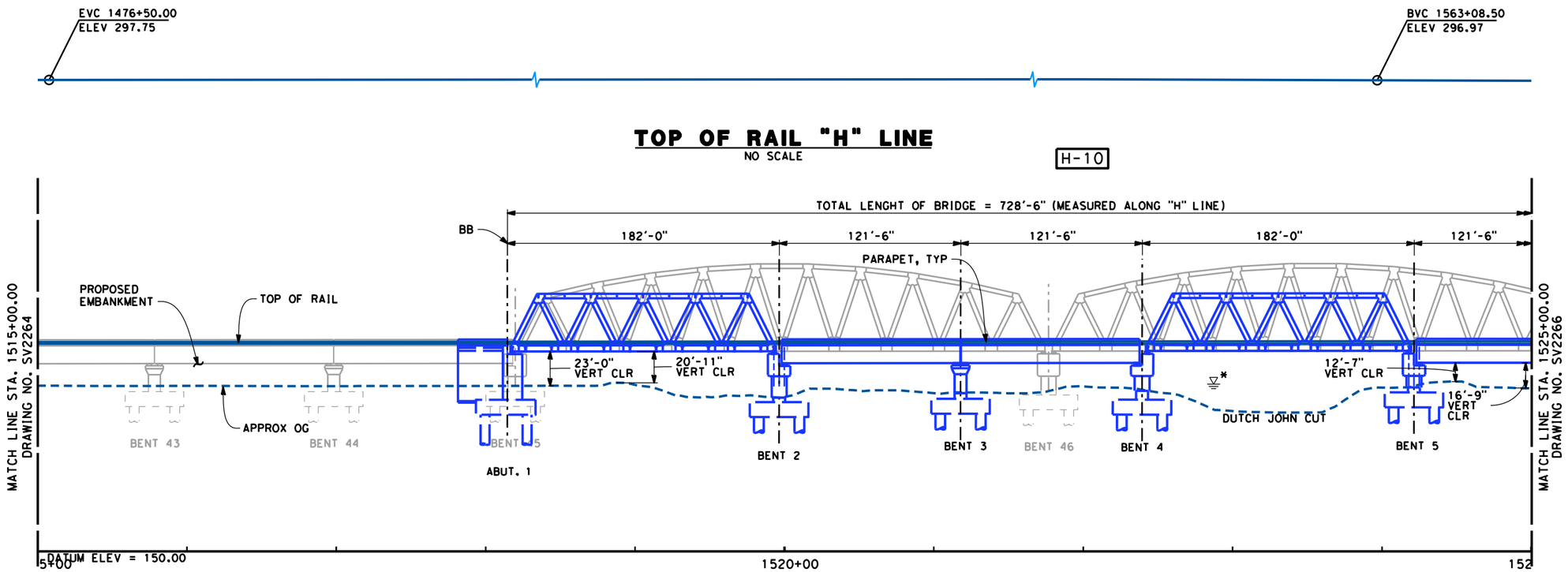
hall1



NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED

CURVE DATA

(7)

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Δ = 58° 05' 38.8"
T = 20271.5'
L = 37008.6'

40 0 40 80
1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
KINGS RIVER VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2265
SCALE	AS SHOWN
SHEET NO.	8 OF 18

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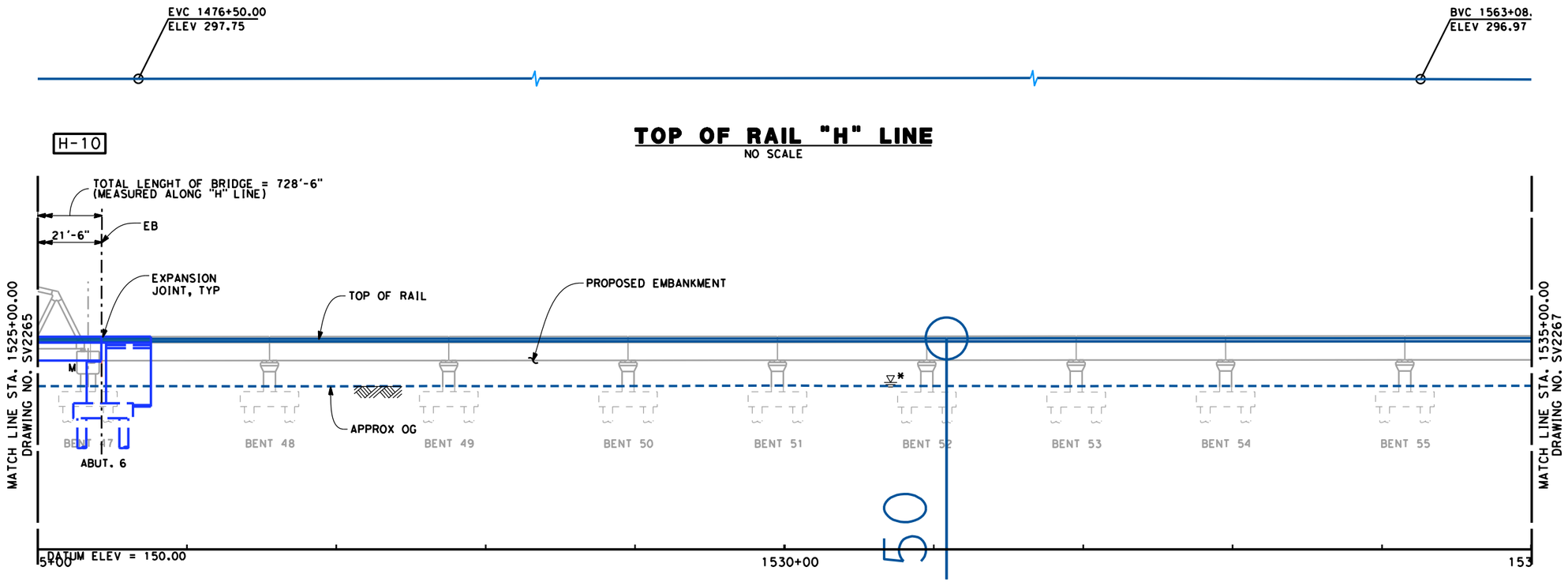

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED

CURVE DATA

(7)

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Δ = 58° 05' 38.8"
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L = 37008.6'

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1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
KINGS RIVER VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2266
SCALE	AS SHOWN
SHEET NO.	9 OF 18

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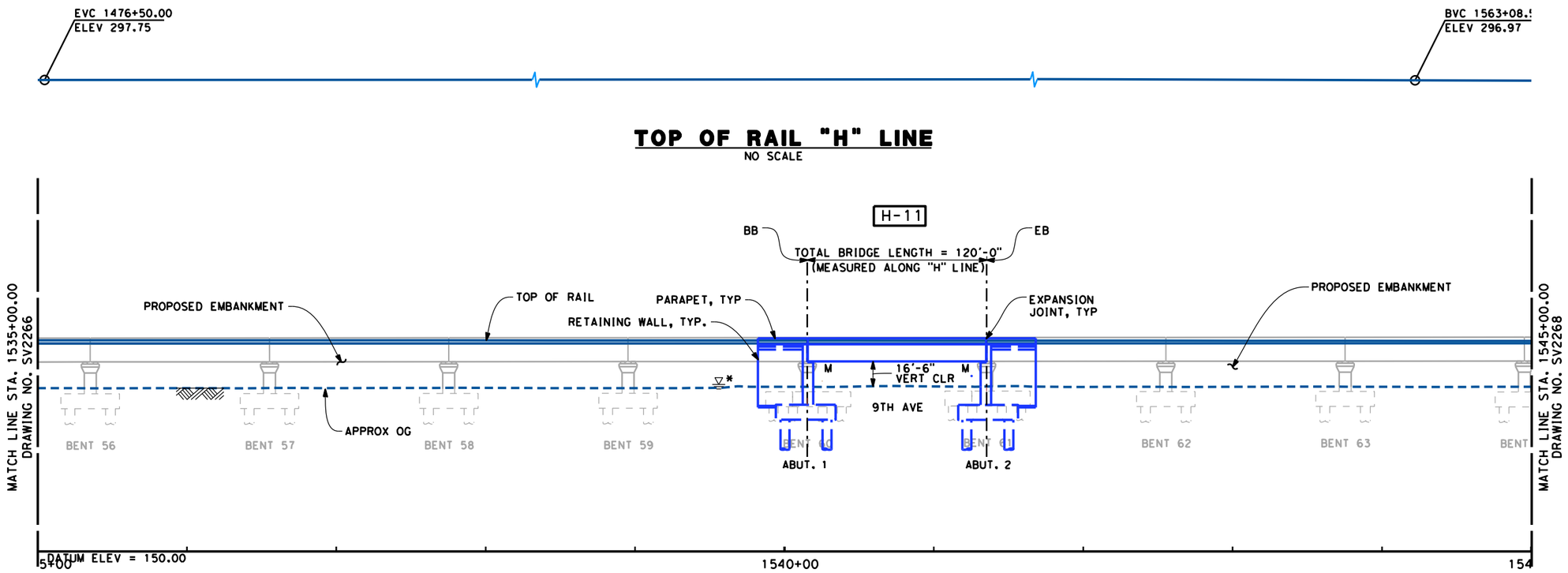
dreeszega



NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED

CURVE DATA

(7)

R = 36500.00'
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T = 20271.5'
L = 37008.6'

40 0 40 80
1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

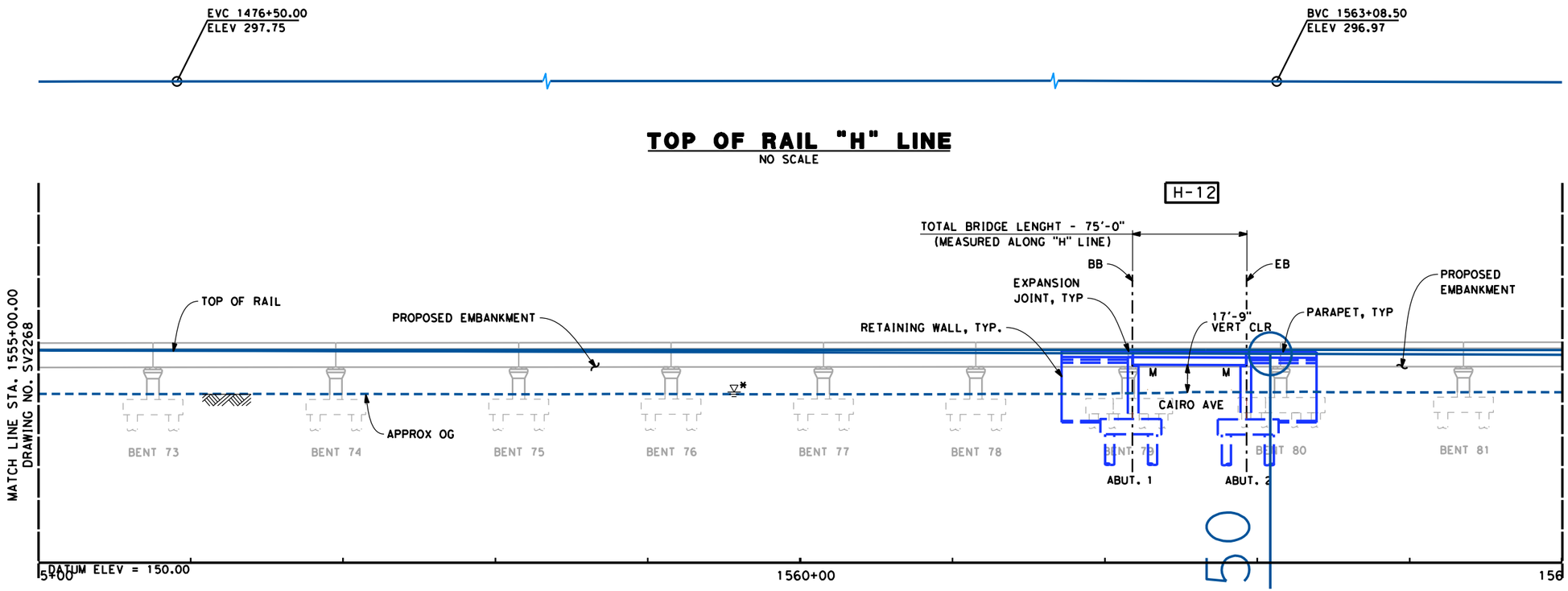
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

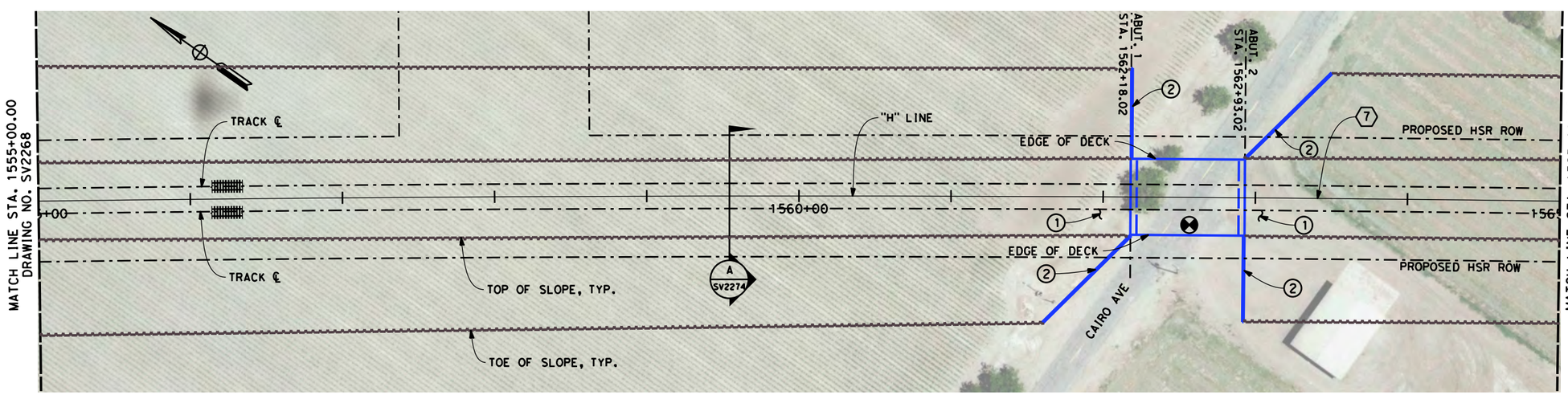
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
KINGS RIVER VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2267
SCALE	AS SHOWN
SHEET NO.	10 OF 18

10/16/2014 11:21:28 AM c:\pwworking\nai\dreeszega\d0175683\FB-SV-2267-H.dgn
dreeszega



ELEVATION
SCALE 1" = 40'



PLAN
SCALE 1" = 40'

NOTES
1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:
(1) CEMENT TREATED STRUCTURE BACKFILL
(2) RETAINING WALL
* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".
⊗ POINT OF MINIMUM CLEARANCE
RFP DESIGN
DFS PROPOSED

CURVE DATA
(7)
R = 36500.00'
Δ = 58° 05' 38.8"
T = 20271.5'
L = 37008.6'

40 0 40 80
1"=40'

DISCLAIMER:
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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
KINGS RIVER VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2269
SCALE	AS SHOWN
SHEET NO.	12 OF 18

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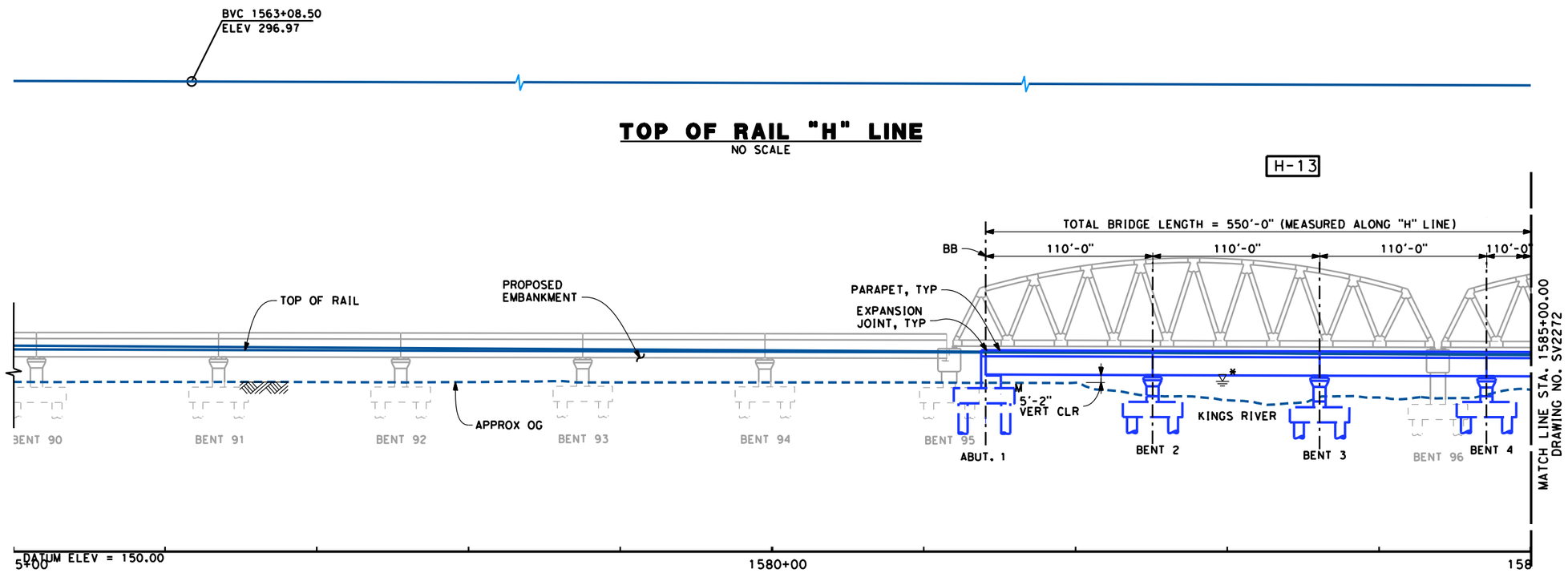
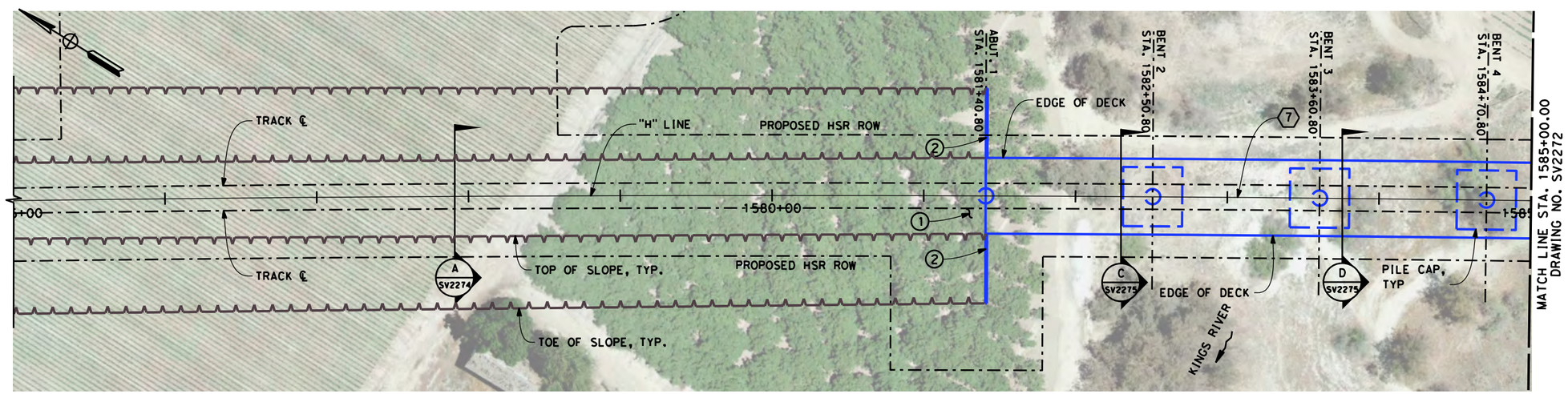
dreeszega



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

⊗ POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED

CURVE DATA

(7)

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Δ = 58° 05' 38.8"
T = 20271.5'
L = 37008.6'

40 0 40 80
1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
KINGS RIVER VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2271
SCALE	AS SHOWN
SHEET NO.	14 OF 18

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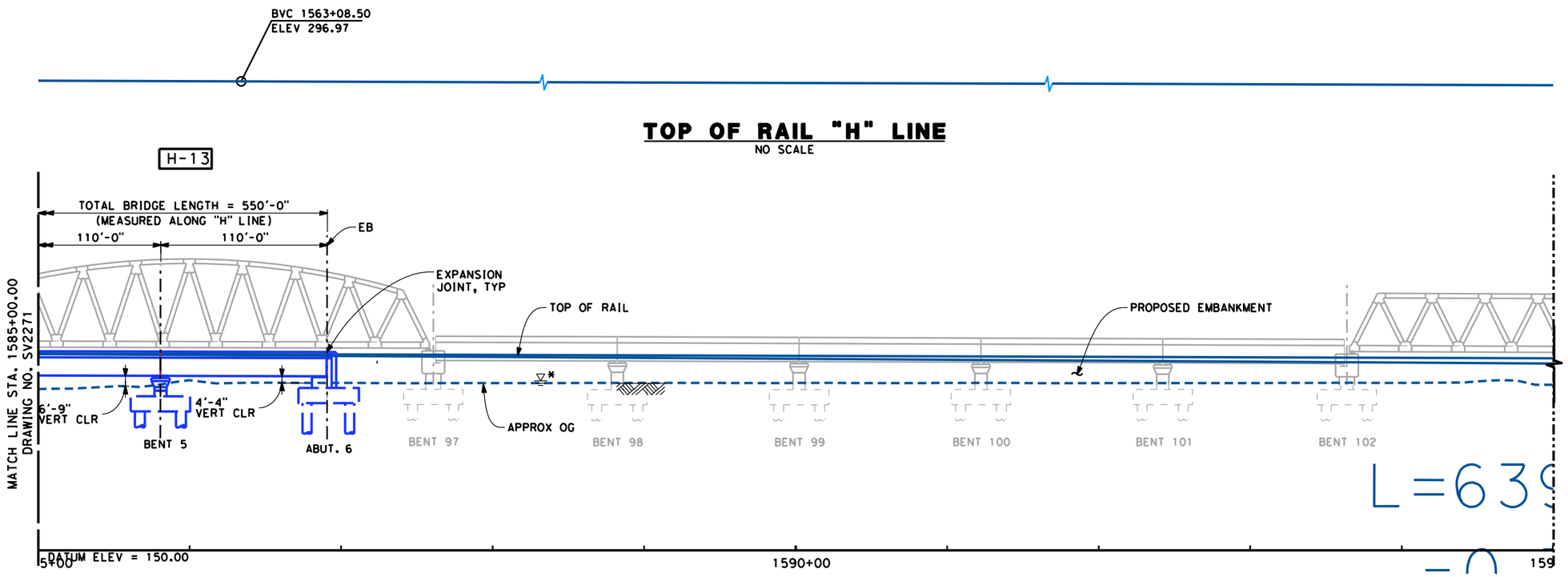
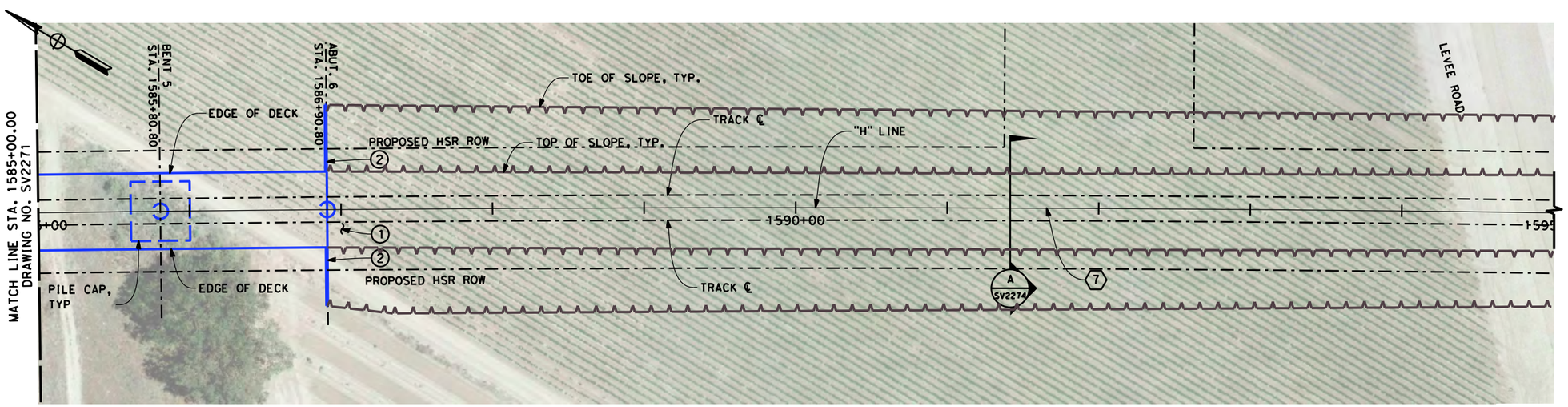
dreeszega

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.





LEGEND:

1. CEMENT TREATED STRUCTURE BACKFILL
2. RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED

CURVE DATA

7

R = 36500.00'
Δ = 58° 05' 38.8"
T = 20271.5'
L = 37008.6'

40 0 40 80
1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
KINGS RIVER VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2272
SCALE	AS SHOWN
SHEET NO.	15 OF 18

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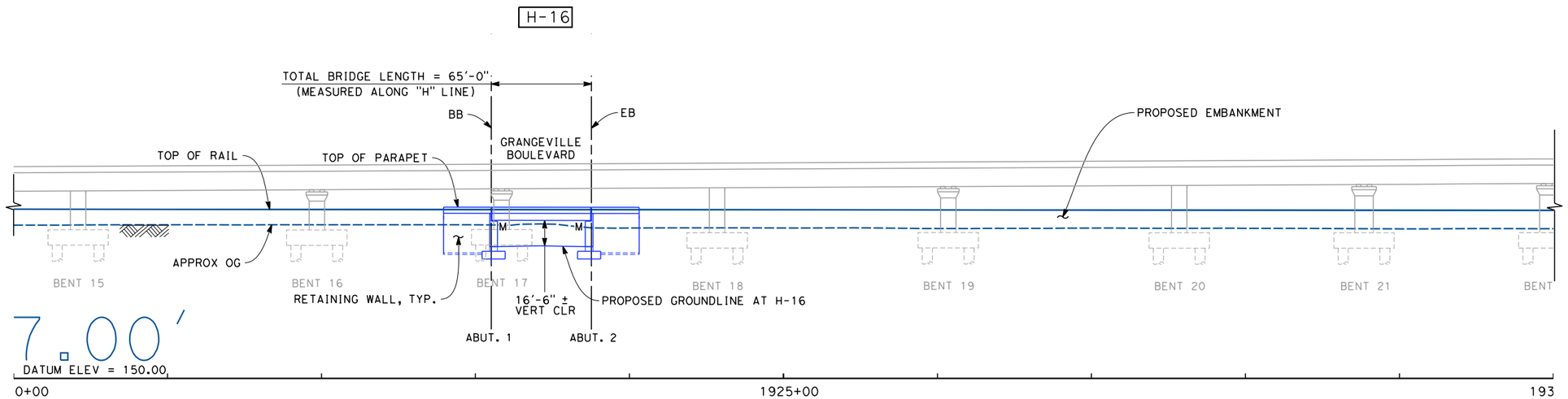
dreeszega

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

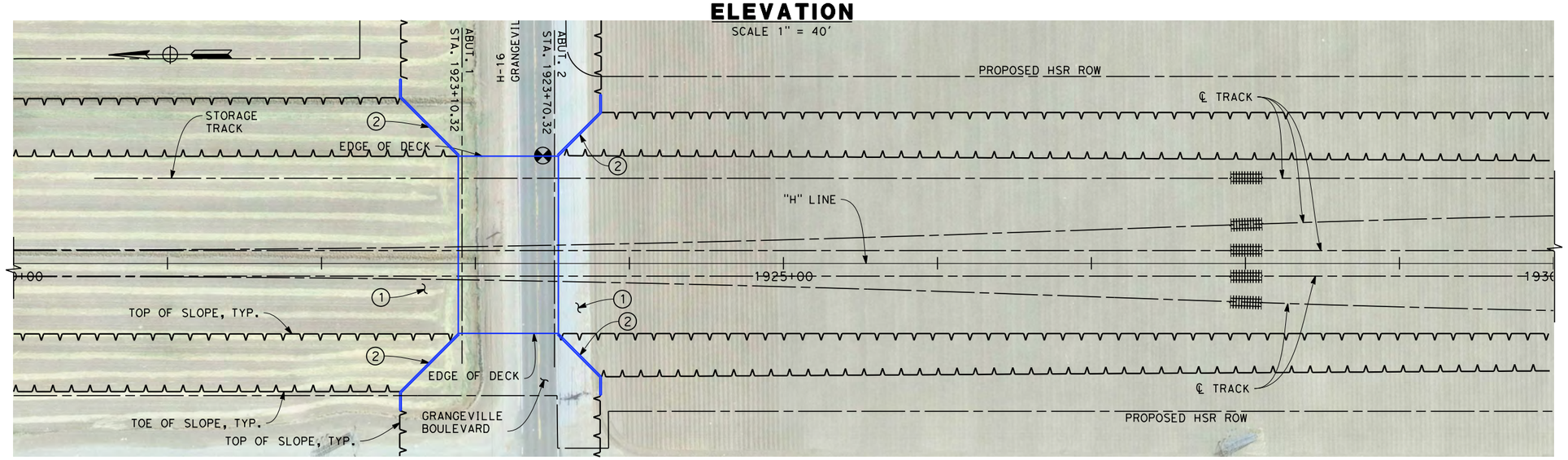
TOP OF RAIL "H" LINE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED

40 0 40 80

1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

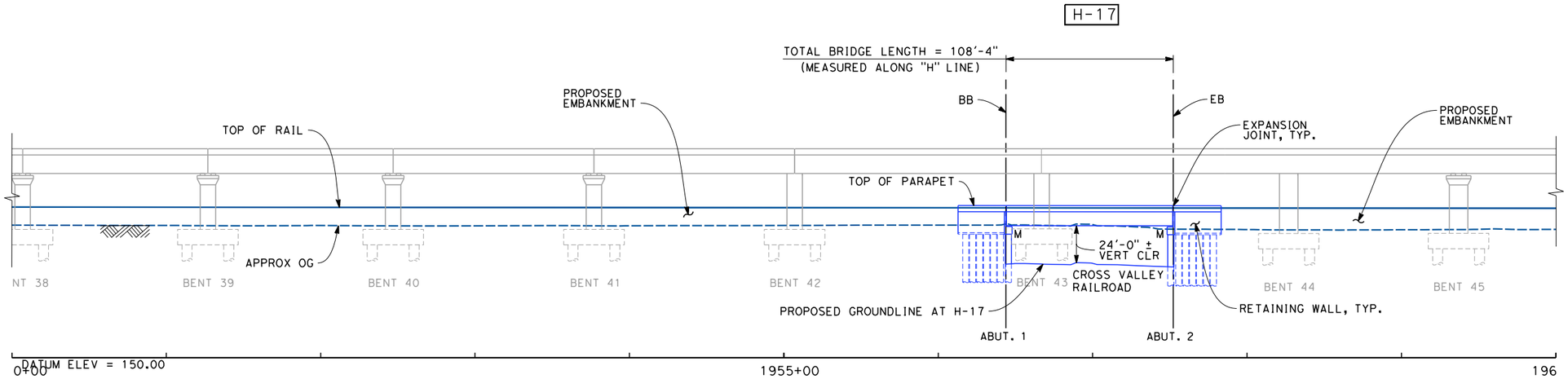
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2303
SCALE	AS SHOWN
SHEET NO.	4 OF 14

10/14/2014 11:47:22 AM c:\pwworking\nai\hallal\d0175683\X-FB-SV-2303-H-X.dgn
hallal

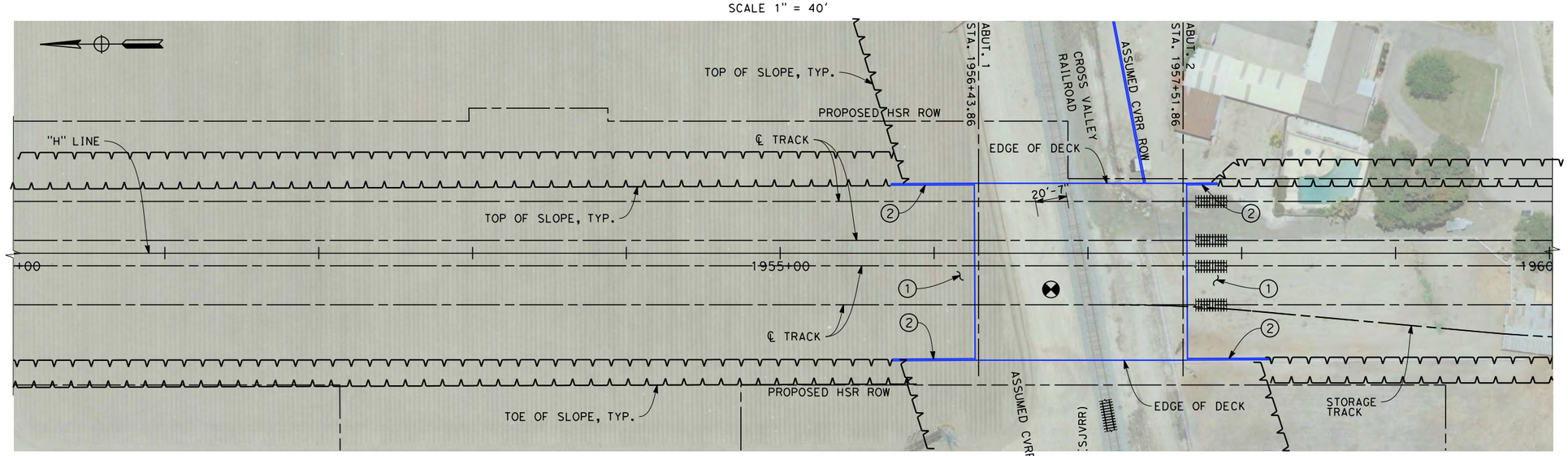
TOP OF RAIL "H" LINE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED

40 0 40 80

1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2306
SCALE	AS SHOWN
SHEET NO.	7 OF 14

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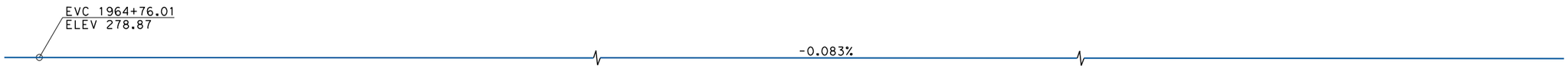
hallal

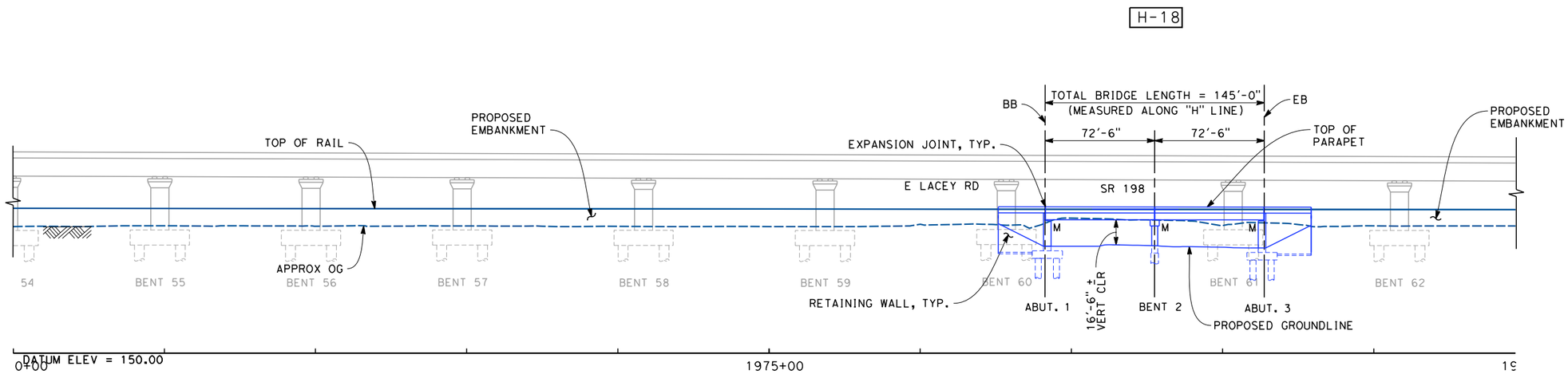
NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.



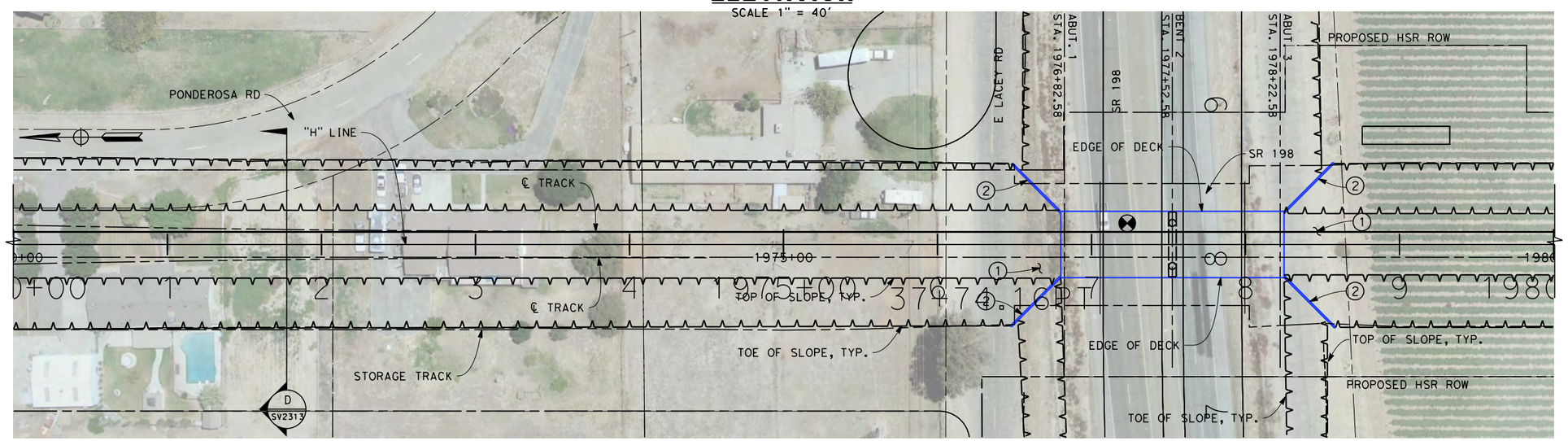
TOP OF RAIL "H" LINE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

LEGEND:

1. CEMENT TREATED STRUCTURE BACKFILL
2. RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED

40 0 40 80

1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2308
SCALE	AS SHOWN
SHEET NO.	9 OF 14

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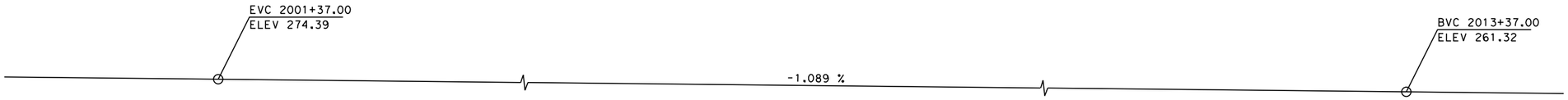
hallal

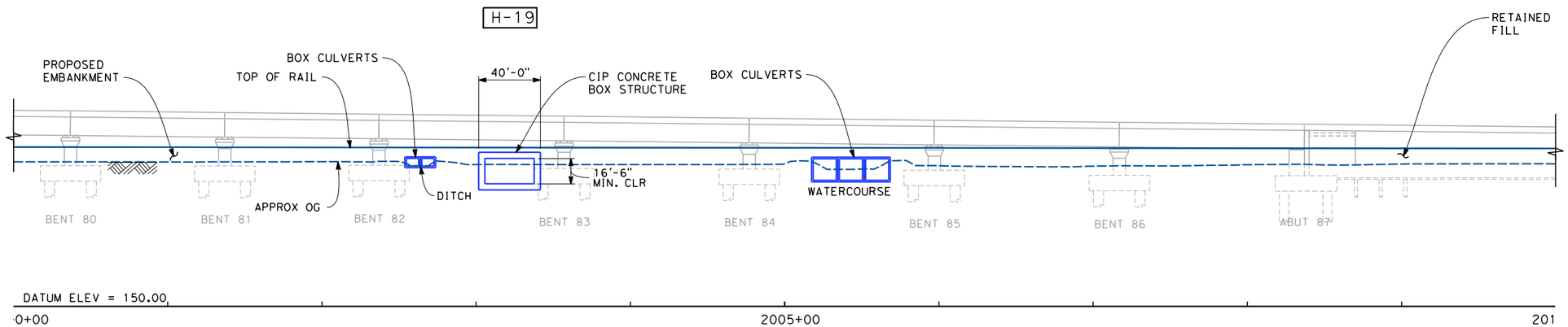


TOP OF RAIL "H" LINE

NO SCALE

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.



ELEVATION

SCALE 1" = 40'

LEGEND:

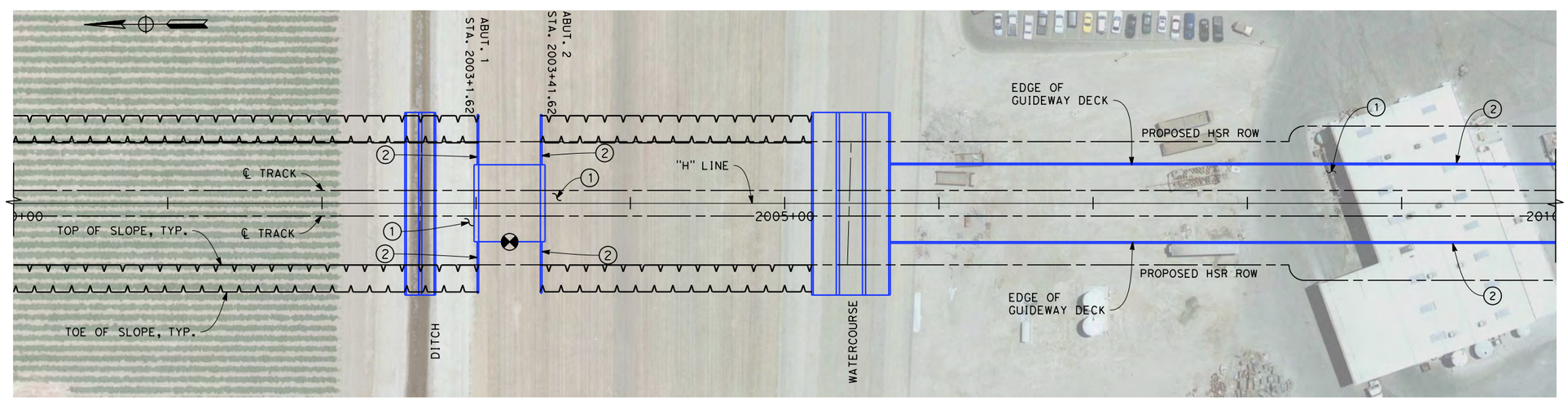
1. CEMENT TREATED STRUCTURE BACKFILL
2. RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

RFP DESIGN

DFS PROPOSED



PLAN

SCALE 1" = 40'

40 0 40 80

1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2311
SCALE	AS SHOWN
SHEET NO.	12 OF 14

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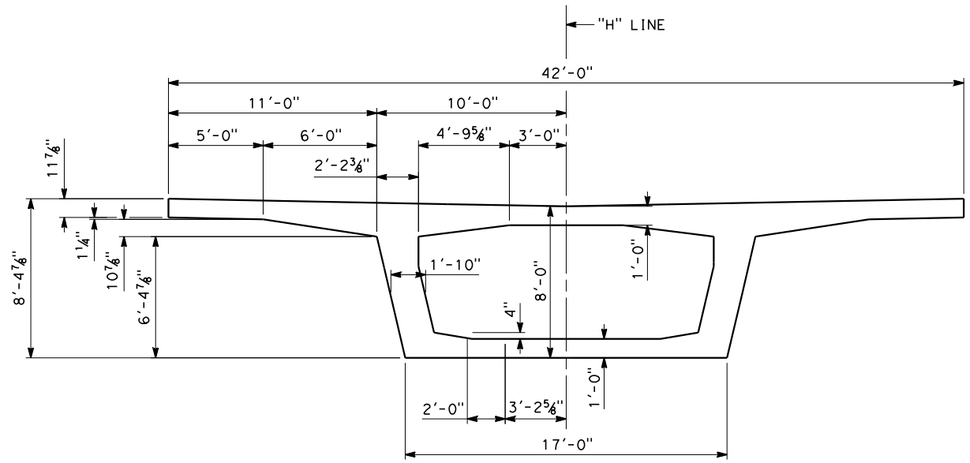
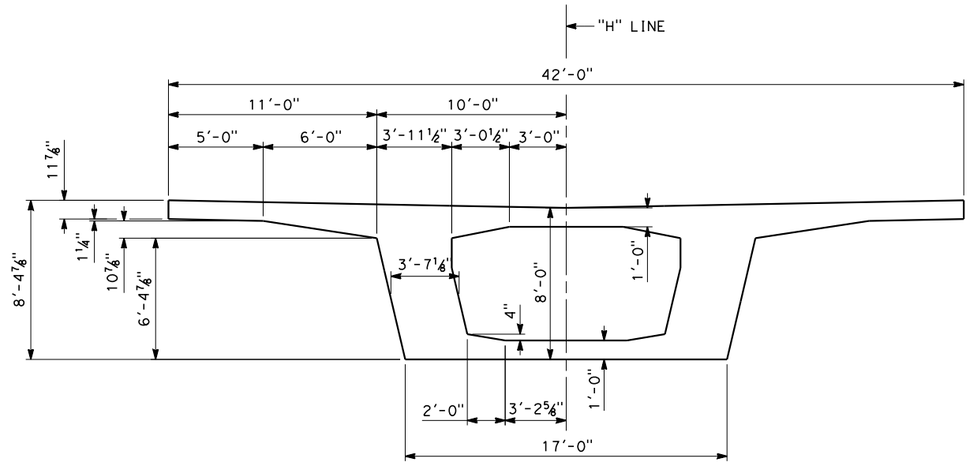
hallal



TYPICAL SECTION

DIMENSIONS SYMMETRICAL ABOUT ℄



SECTION AT ABUTMENT

DIMENSIONS SYMMETRICAL ABOUT ℄

H-1 100' SPAN TYPICAL SECTIONS

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DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX06
SCALE	AS SHOWN
SHEET NO.	1 OF 23

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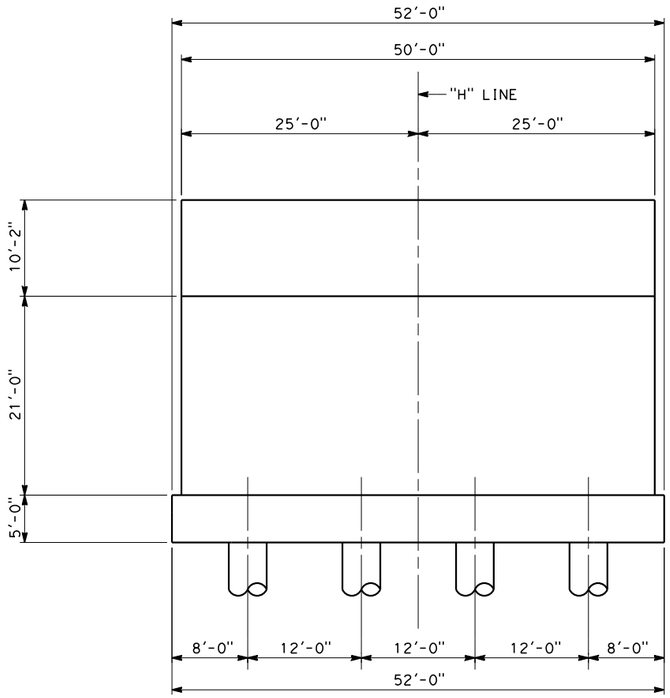
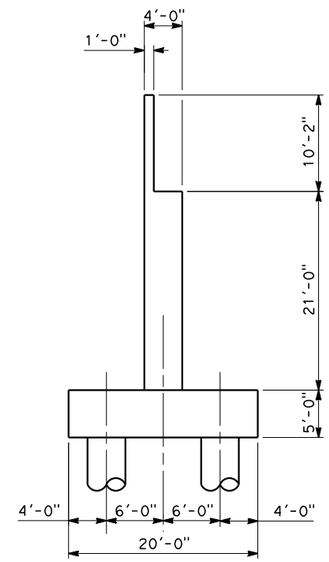
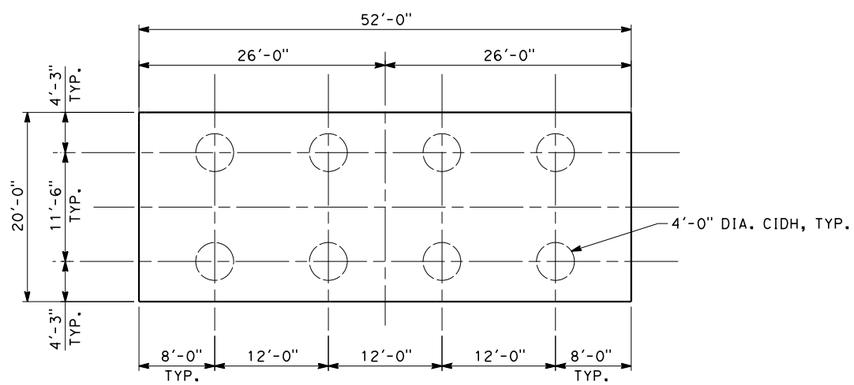
hallal



ELEVATION



SECTION



FOOTING PLAN

H-1 ABUTMENT

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CHECKED BY G. DREESZEN
IN CHARGE R. TREVETT
DATE 10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

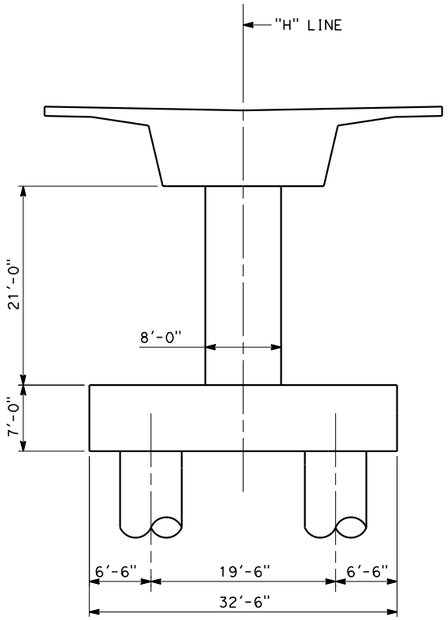
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

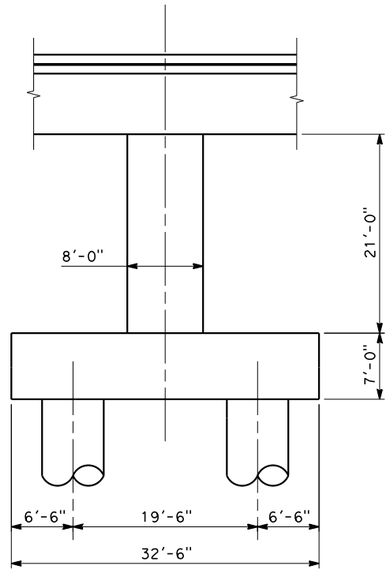
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. SVXX04
SCALE AS SHOWN
SHEET NO. 2 OF 23

10/13/2014 10:27:48 AM c:\pwworking\nai\halldl\d0175683\FB-SV-XX04-H.dgn
halldl



ELEVATION AT BENT 2
(AT FIXED ENDS)



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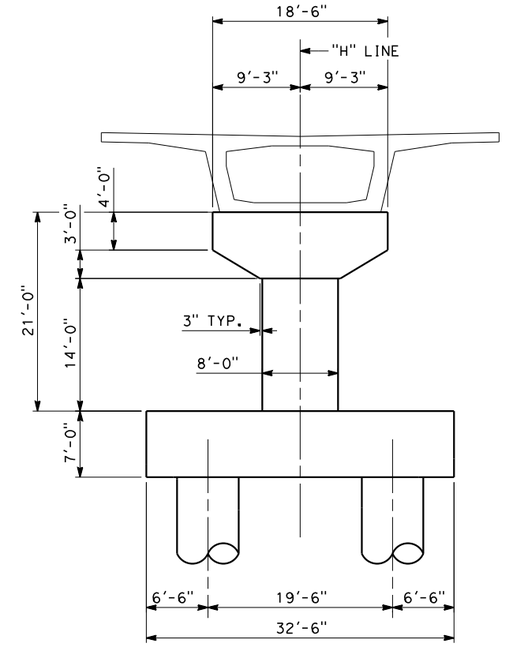
(AT FIXED ENDS)



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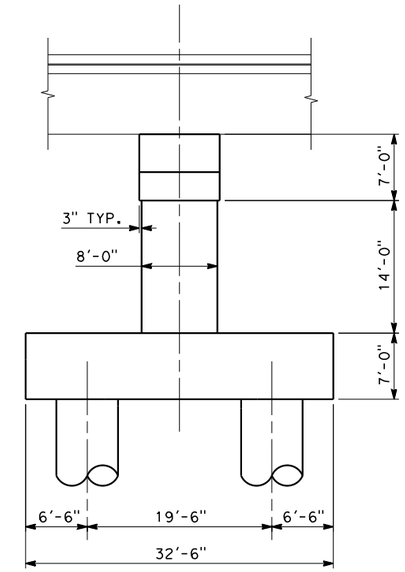
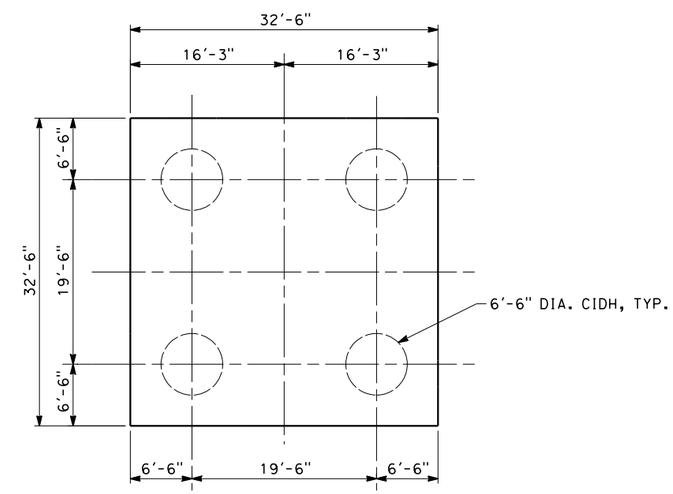
(AT EXPANSION ENDS)



SECTION AT BENT 3
(AT EXPANSION ENDS)



FOOTING PLAN

H-1 BENT

DISCLAIMER:
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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX05
SCALE	AS SHOWN
SHEET NO.	3 OF 23

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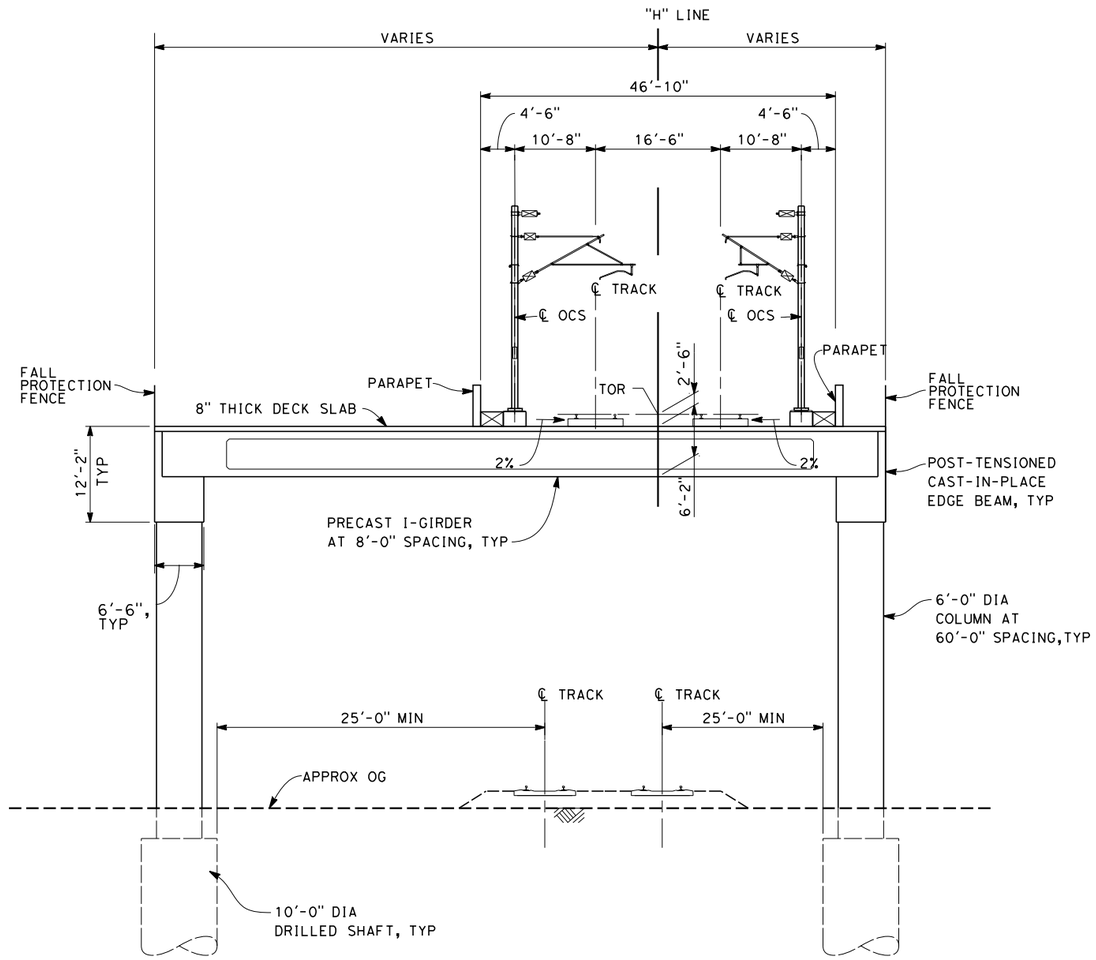

TYPICAL SECTION

SCALE: 1" = 10'

ELEVATED SLAB STRUCTURE

10 0 10 20
1"=10'

H-2 TYPICAL SECTION

DISCLAIMER:
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DRAWN BY	A. PRICE
CHECKED BY	G.DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
CONEJO VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2227
SCALE	AS SHOWN
SHEET NO.	4 OF 23

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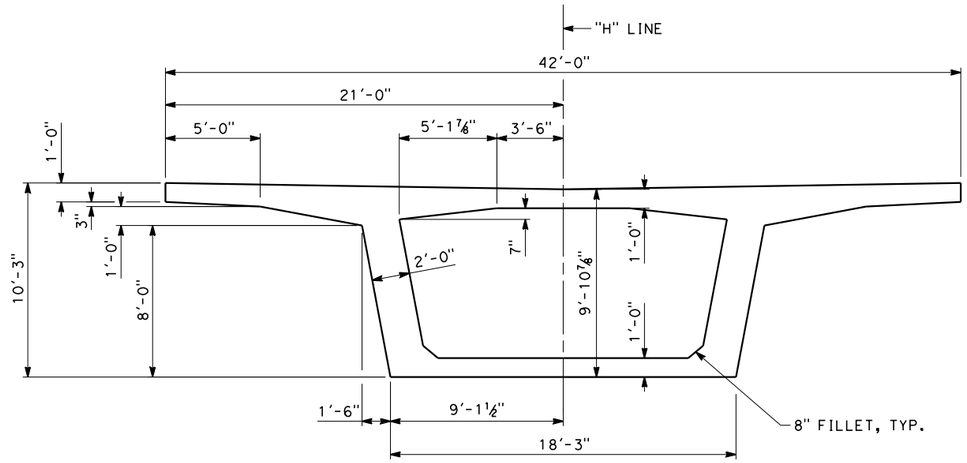
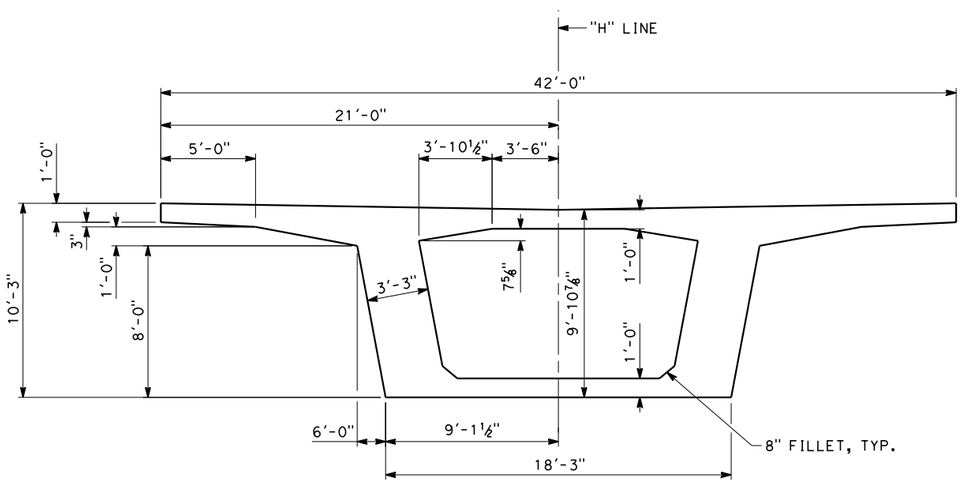


TYPICAL SECTION

DIMENSIONS SYMMETRICAL ABOUT ℄



SECTION AT ABUTMENT

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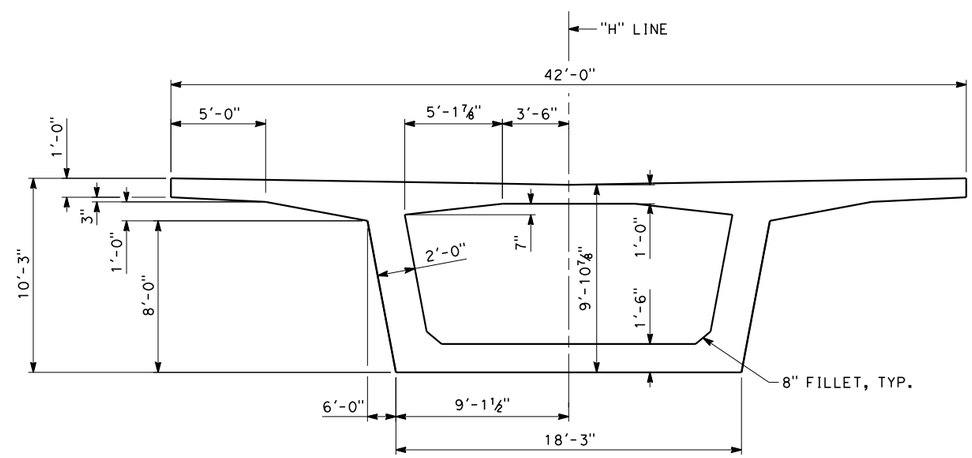

SECTION AT PIER

DIMENSIONS SYMMETRICAL ABOUT ℄

H-3 120' SPAN TYPICAL SECTIONS

DISCLAIMER:
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DRAWN BY	A. PRICE
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DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX07
SCALE	AS SHOWN
SHEET NO.	5 OF 23

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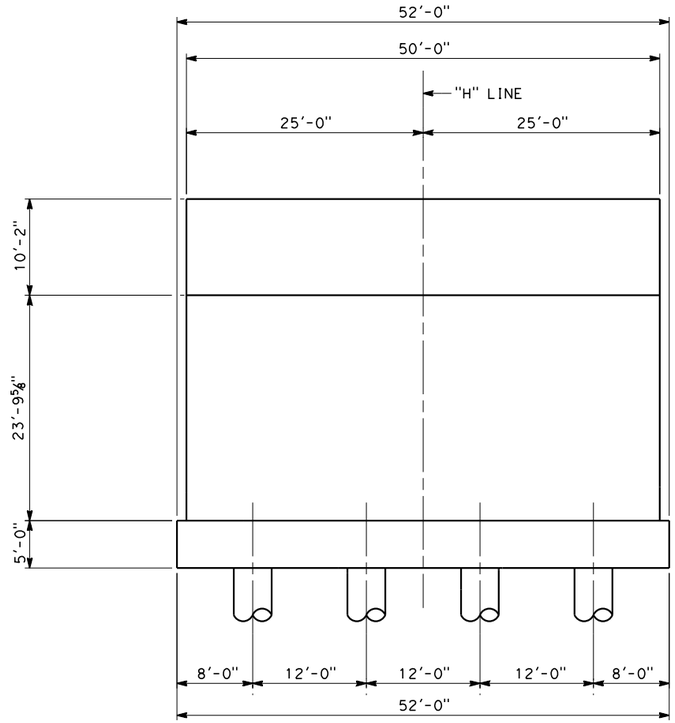

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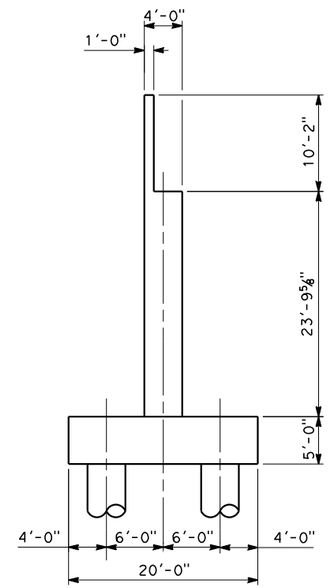

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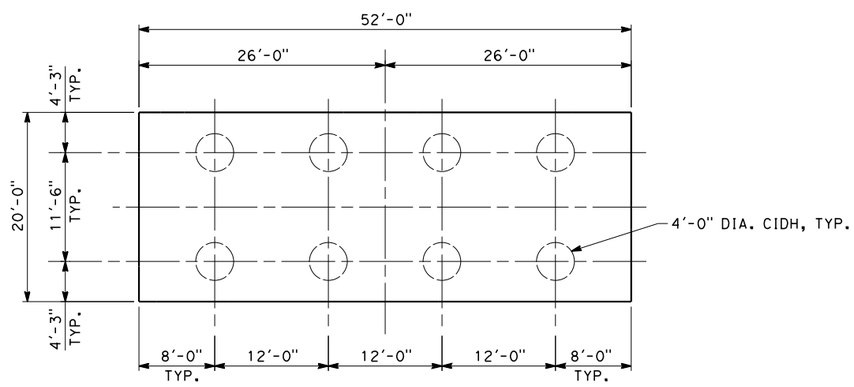

FOOTING PLAN

H-3 ABUTMENT

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX08
SCALE	AS SHOWN
SHEET NO.	6 OF 23

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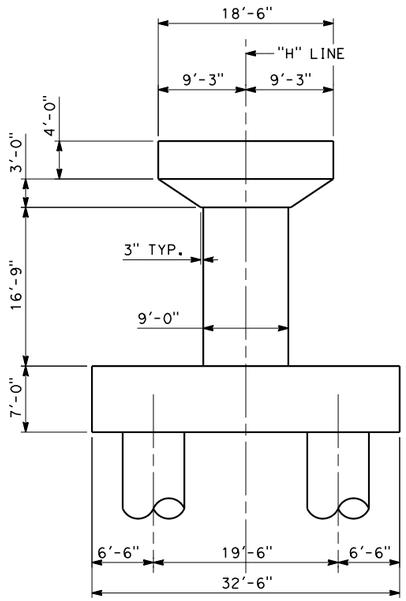

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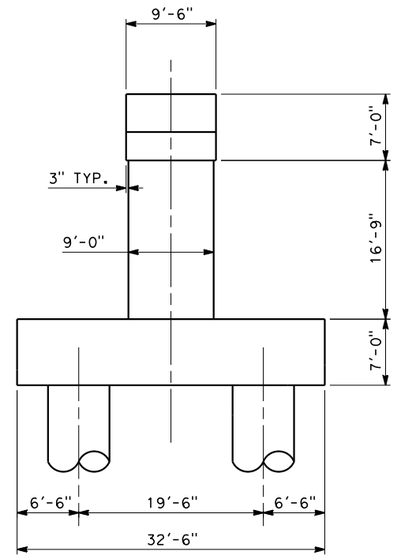

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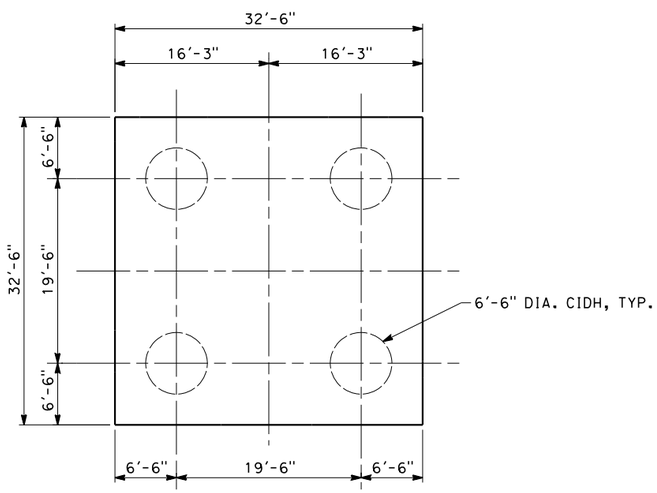

FOOTING PLAN

H-3 BENT 4

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX09
SCALE	AS SHOWN
SHEET NO.	7 OF 23

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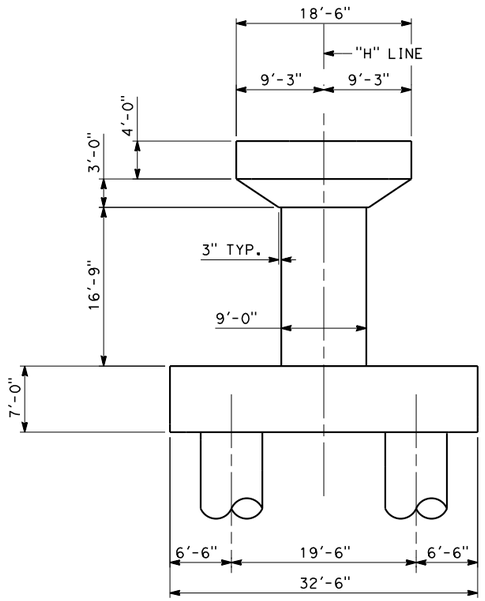

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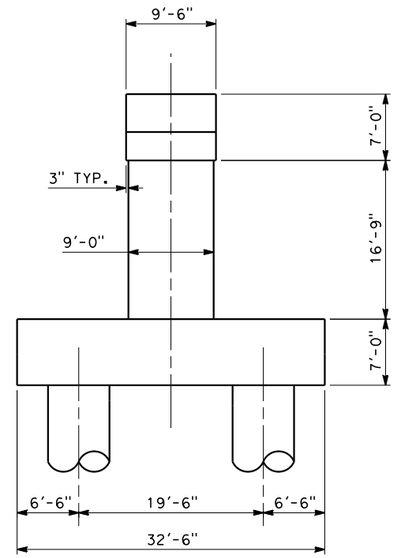

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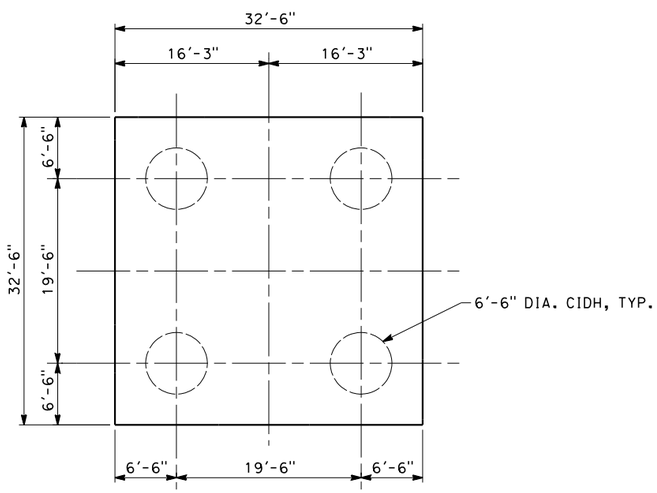

FOOTING PLAN

H-3 BENT 5 & 6

DISCLAIMER:
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IN CHARGE	R. TREVETT
DATE	10/09/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX10
SCALE	AS SHOWN
SHEET NO.	8 OF 23

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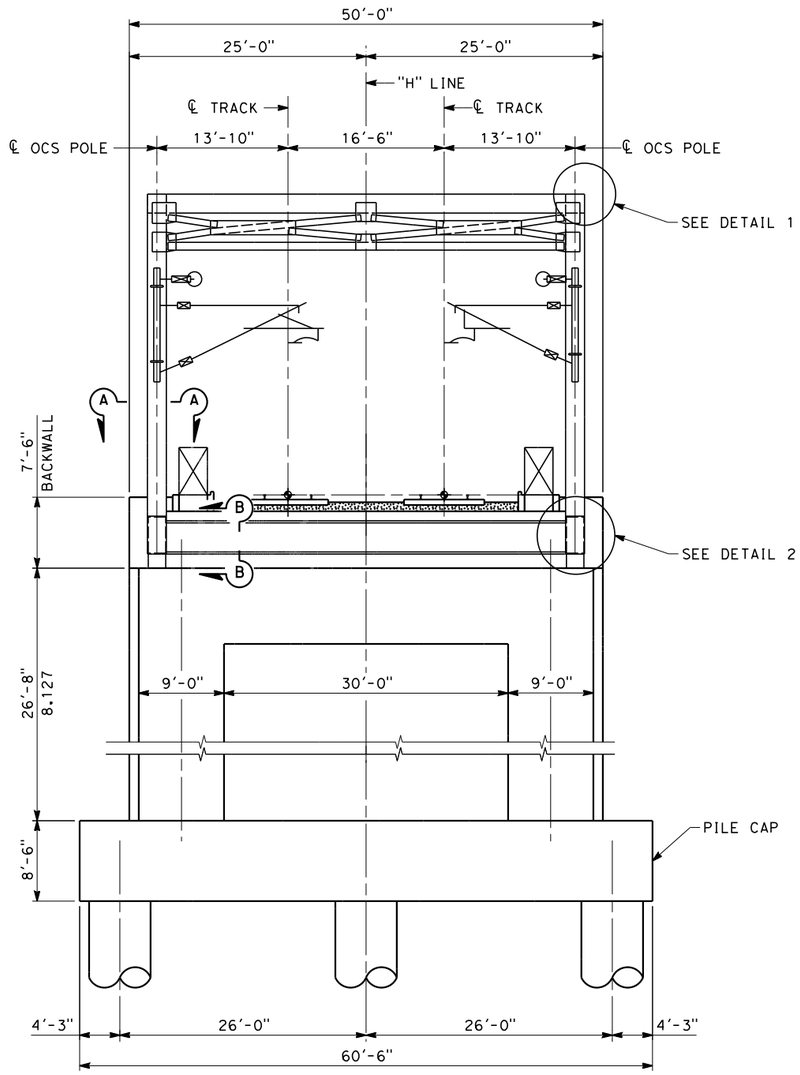

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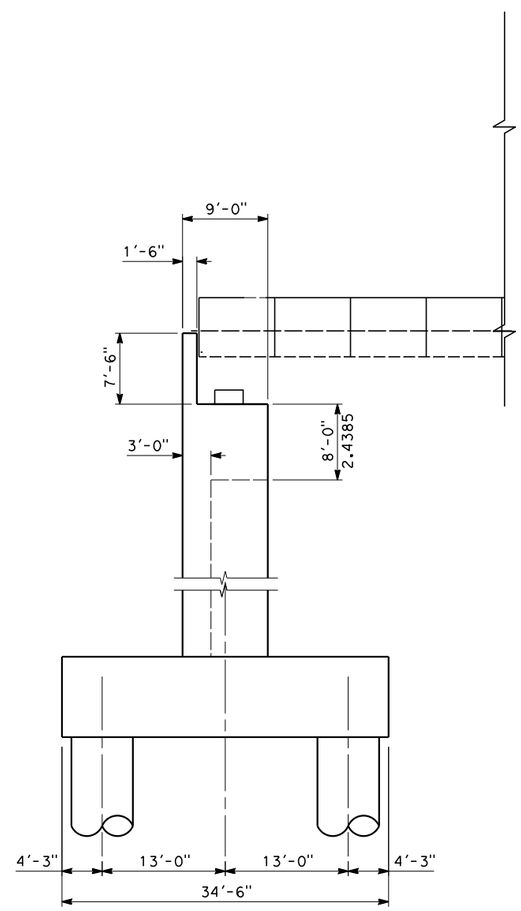

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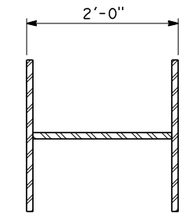

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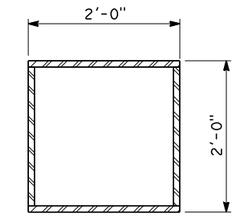
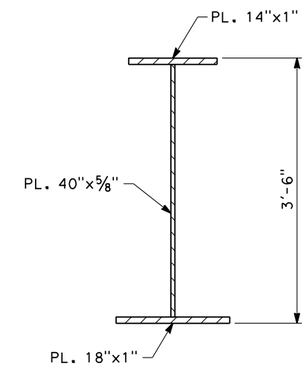
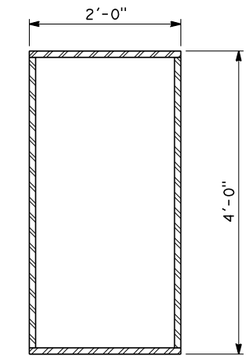


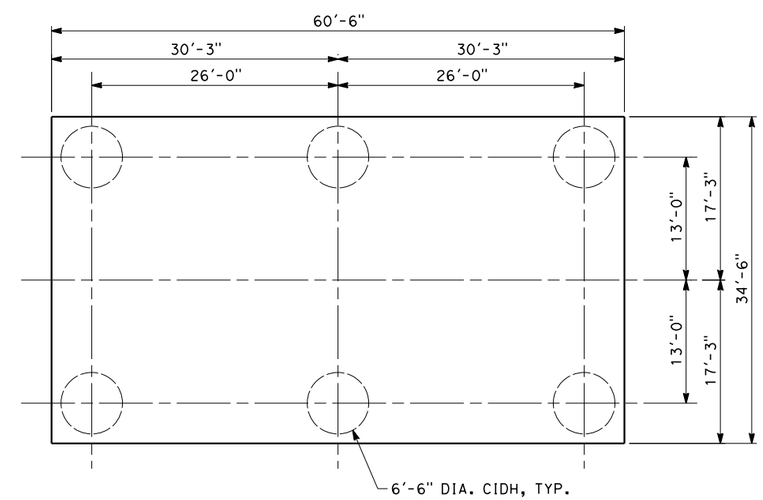
DETAIL 1



SECTION B



DETAIL 2



FOOTING PLAN

TRUSS ABUTMENTS AT H-5 & H-10
SUPPORTING 182' TRUSS

DISCLAIMER:
THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE HSR AND ROADWAY DESIGN ENHANCEMENTS. DRAINAGE, UTILITIES, AND IRRIGATION CANALS ARE NOT SHOWN. THE HSR PROFILE IS BASED ON DRAINAGE AND WILDLIFE CROSSINGS IN THE RFP DESIGN AND THE DFS PROPOSED ATC DESIGNS AS SUBMITTED AND ACCEPTED BY THE AUTHORITY. THIS DOCUMENT AND ASSOCIATED ENGINEERING DETAILS REFLECT PRELIMINARY SCHEMATIC-LEVEL DESIGN ONLY. THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION.

DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

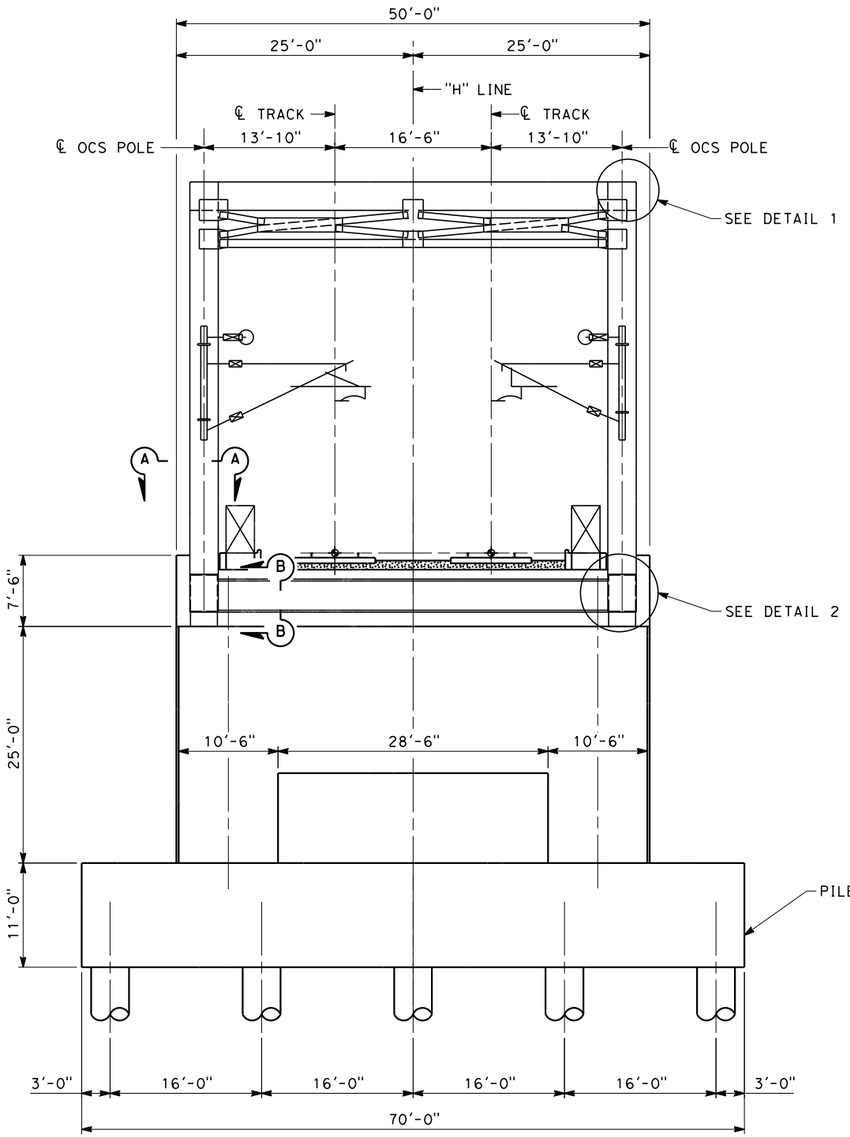
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX01
SCALE	AS SHOWN
SHEET NO.	9 OF 23

10/13/2014 11:32:21 AM c:\pwworking\nai\hal1d\\d0175683\VFB-SV-XX01-H.dgn
hal1d



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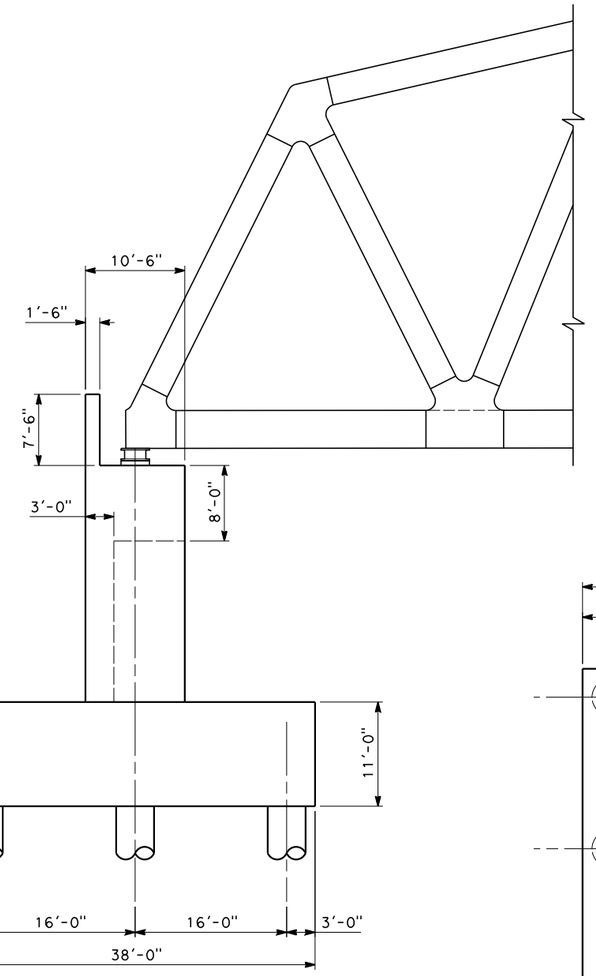

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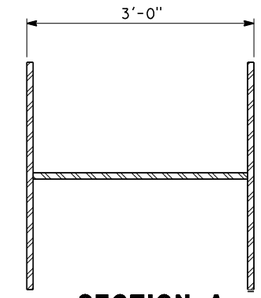
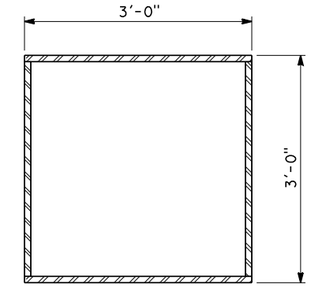
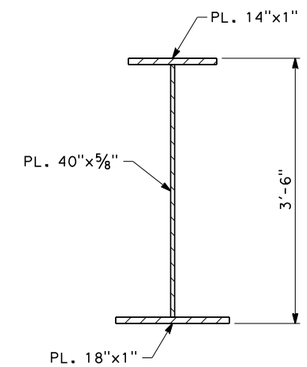


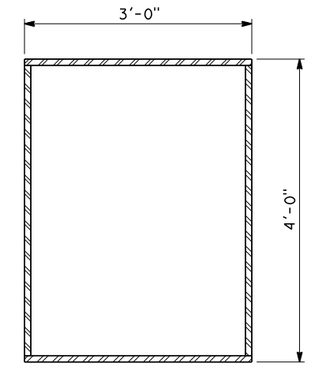
SECTION A



DETAIL 1



SECTION B



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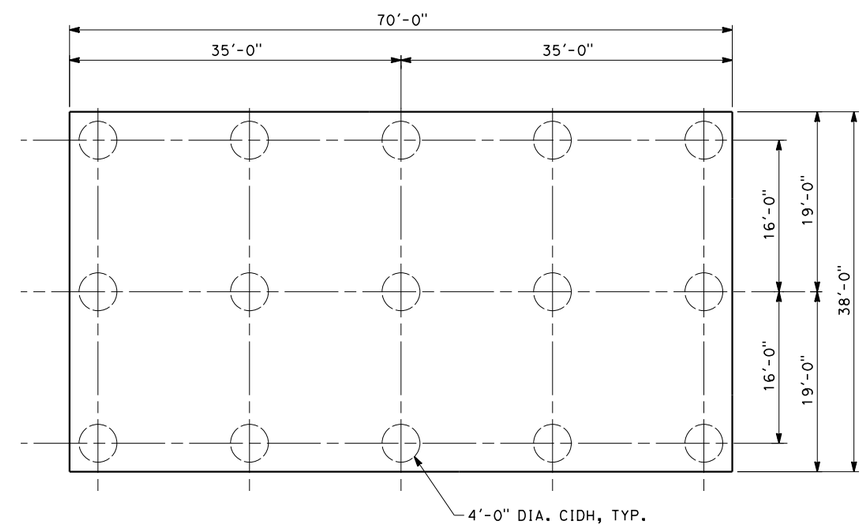

FOOTING PLAN

TRUSS ABUTMENTS AT H-7
SUPPORTING 357' TRUSS

DISCLAIMER:
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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION
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NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX02
SCALE	AS SHOWN
SHEET NO.	10 OF 23

10/13/2014 11:41:35 AM c:\pwworking\nai\hallal\d0175683\FB-SV-XX02-H.dgn
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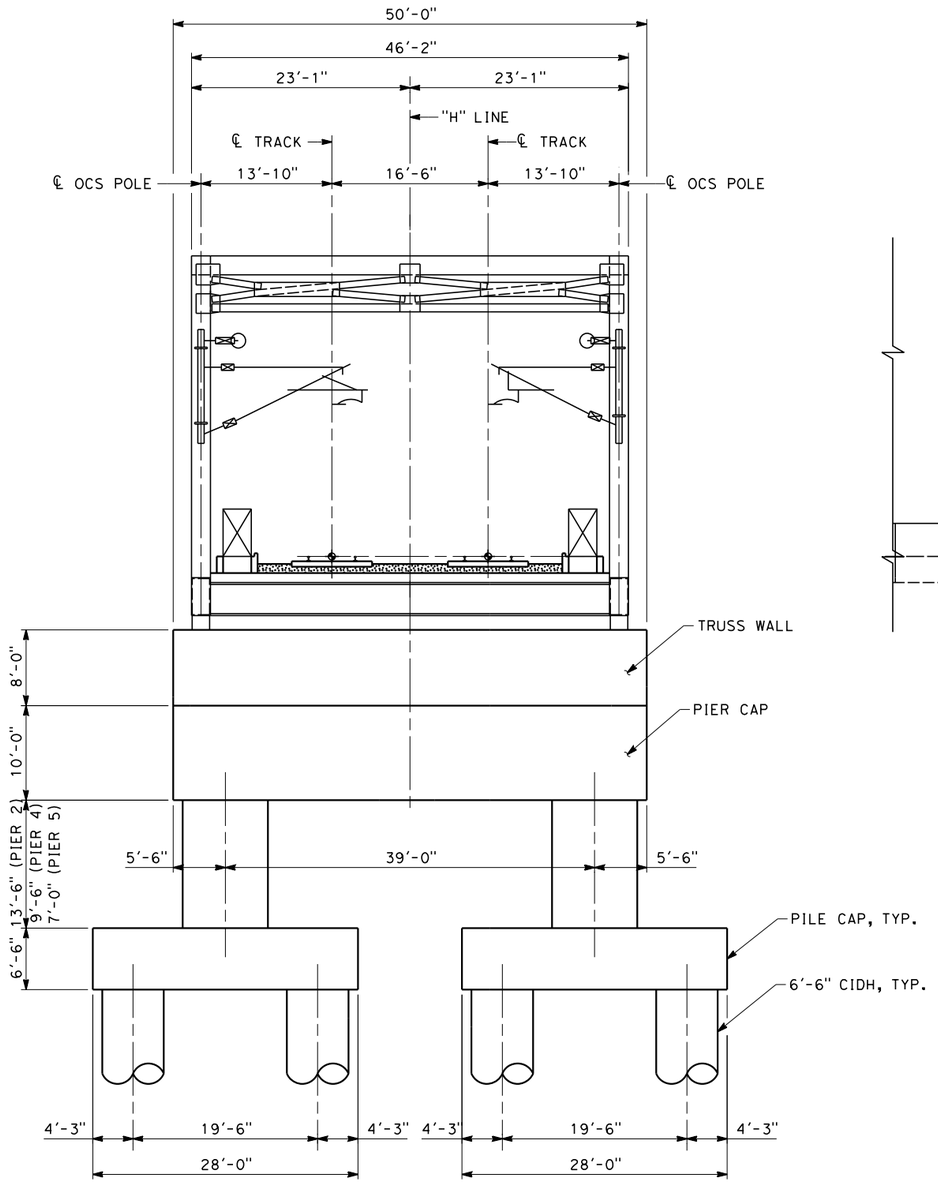
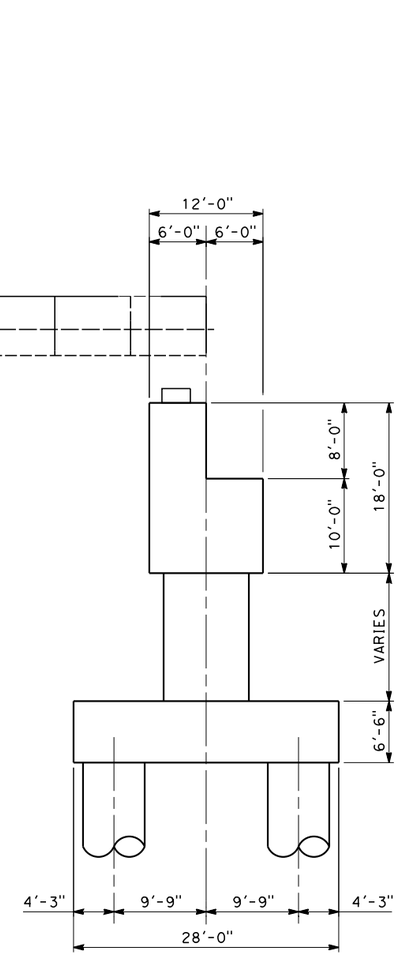


ELEVATION



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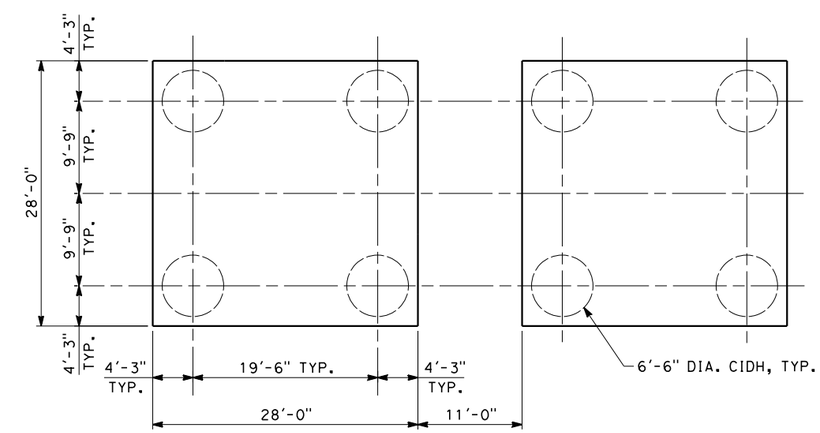

FOOTING PLAN

TRUSS PIERS 2, 4, & 5 AT H-10
SUPPORTING 182' TRUSS

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX03
SCALE	AS SHOWN
SHEET NO.	11 OF 23

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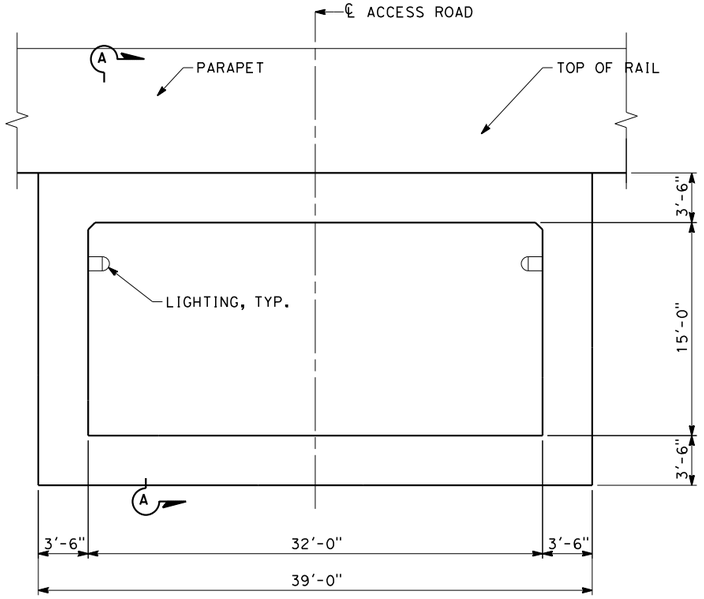
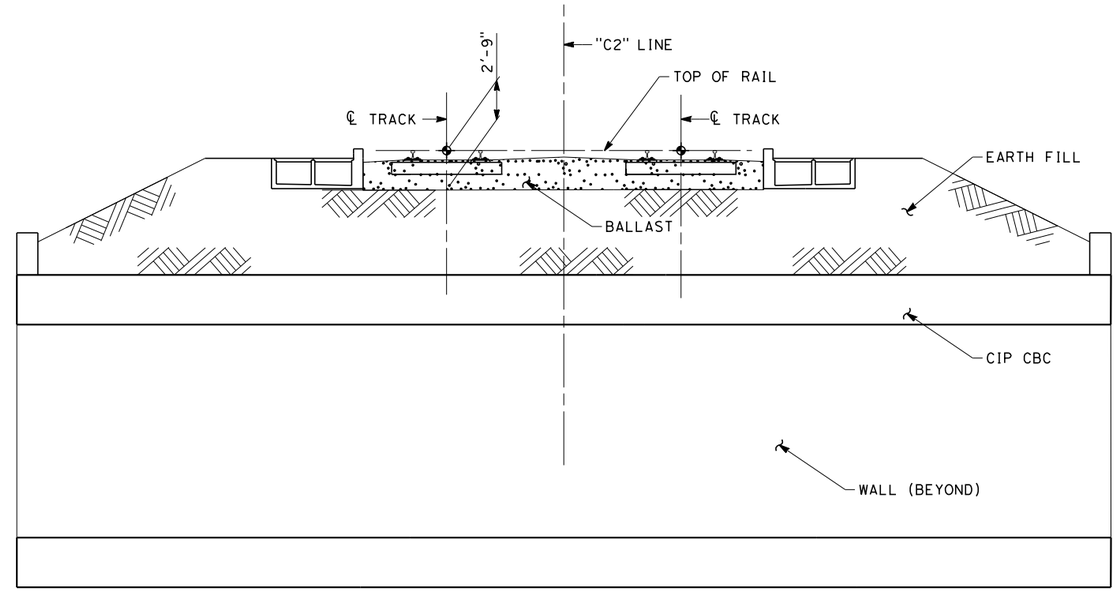
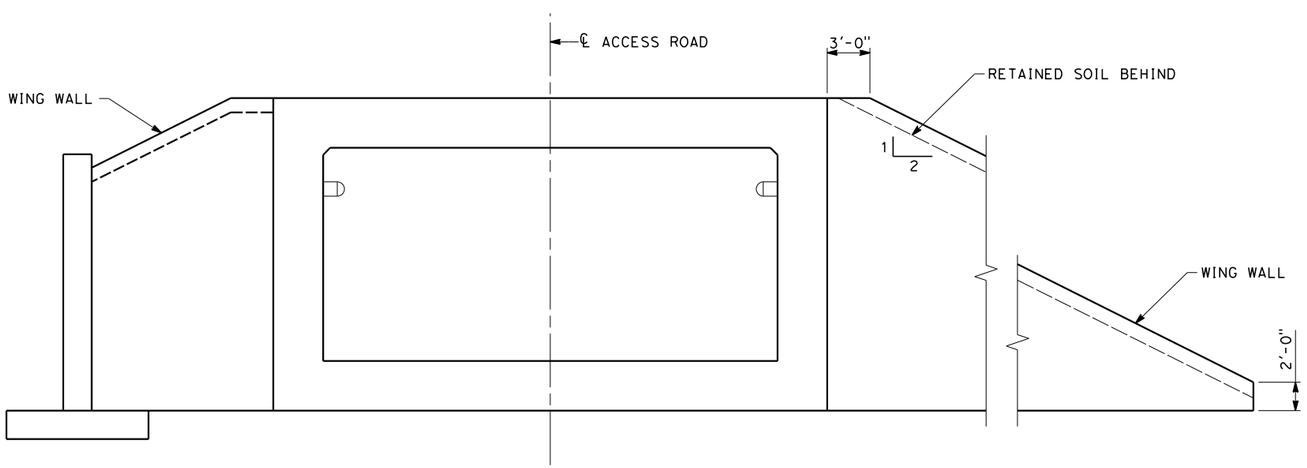


TYPICAL LONGITUDINAL SECTION
SCALE: 3/16" = 1'-0"



SECTION A-A
SCALE: 3/16" = 1'-0"



END SECTION
SCALE: 3/16" = 1'-0"

H-9 BOX CULVERT

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IN CHARGE	R. TREVETT
DATE	10/09/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX11
SCALE	AS SHOWN
SHEET NO.	12 OF 23

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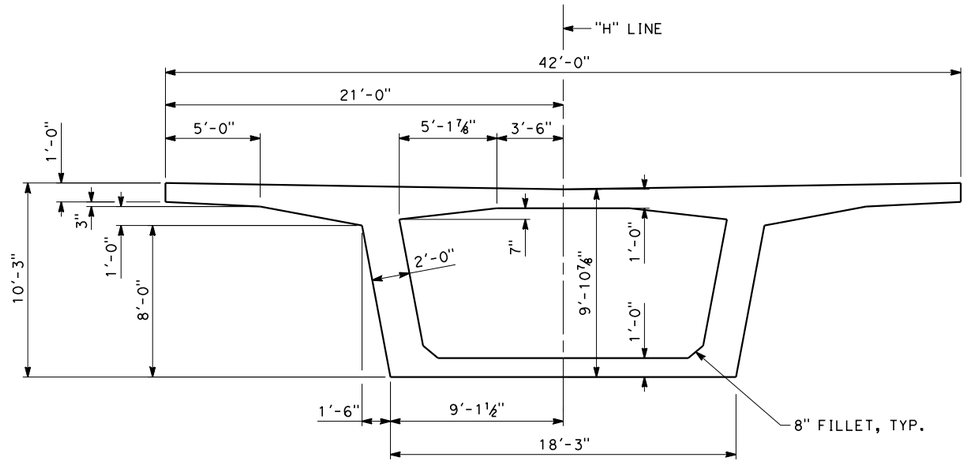
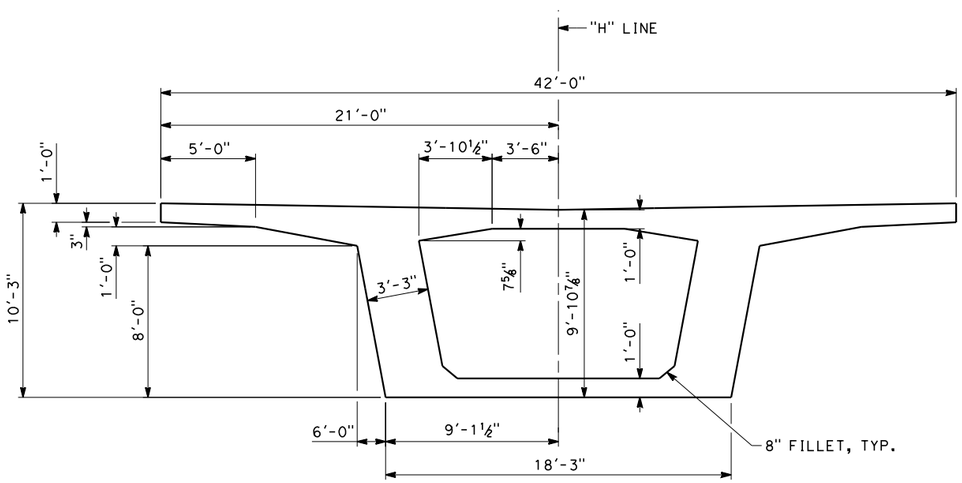


TYPICAL SECTION

DIMENSIONS SYMMETRICAL ABOUT ℄



SECTION AT ABUTMENT

DIMENSIONS SYMMETRICAL ABOUT ℄

H-11 120' SPAN TYPICAL SECTIONS

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IN CHARGE	R. TREVETT
DATE	10/09/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
KINGS RIVER VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX07
SCALE	AS SHOWN
SHEET NO.	13 OF 23

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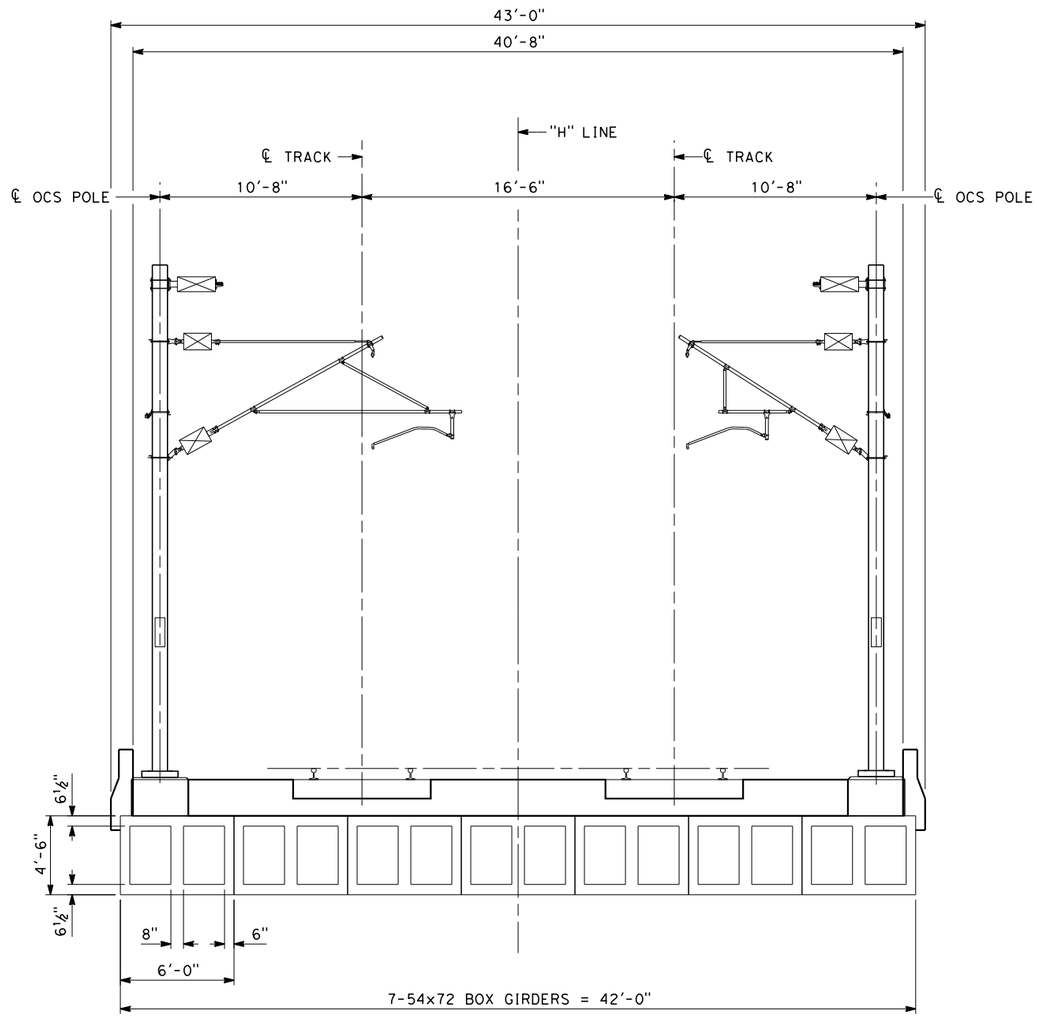

SECTION AT SPAN

SCALE: ¼" = 1'-0"

H-12 TYPICAL SECTION

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CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
KINGS RIVER VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX01
SCALE	AS SHOWN
SHEET NO.	14 OF 23

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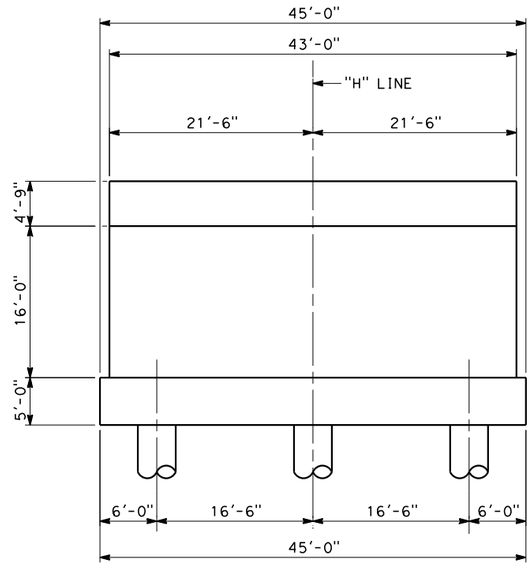
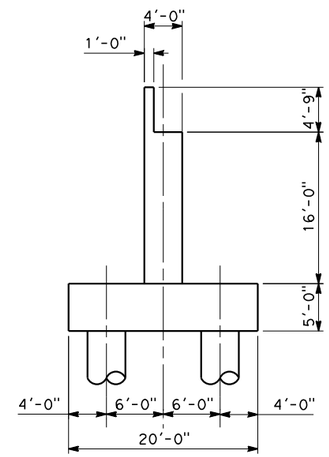


ELEVATION



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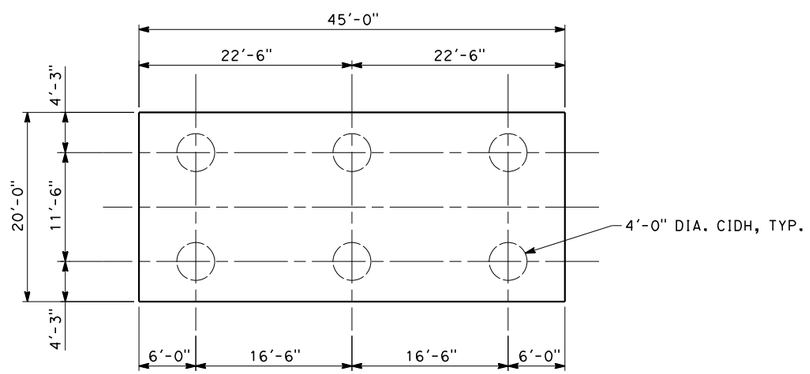

FOOTING PLAN

H-12 ABUTMENT

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX13
SCALE	AS SHOWN
SHEET NO.	15 OF 23

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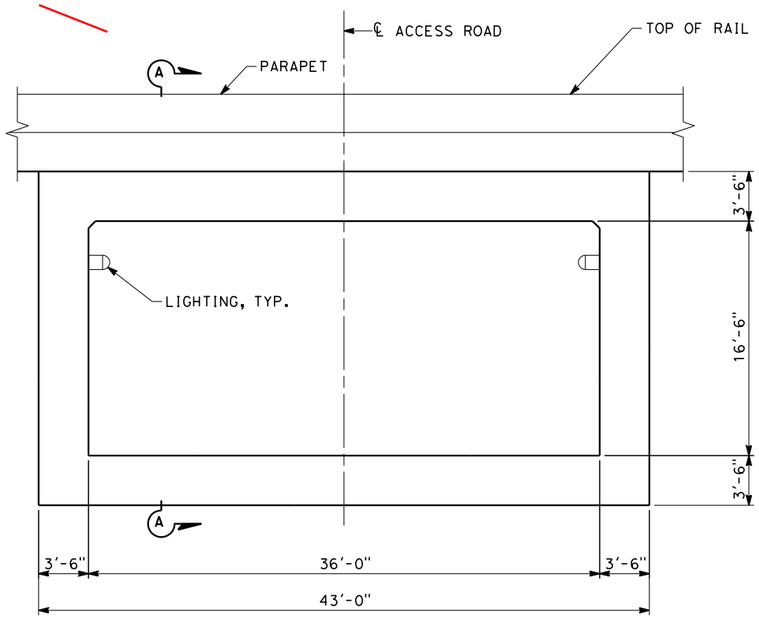
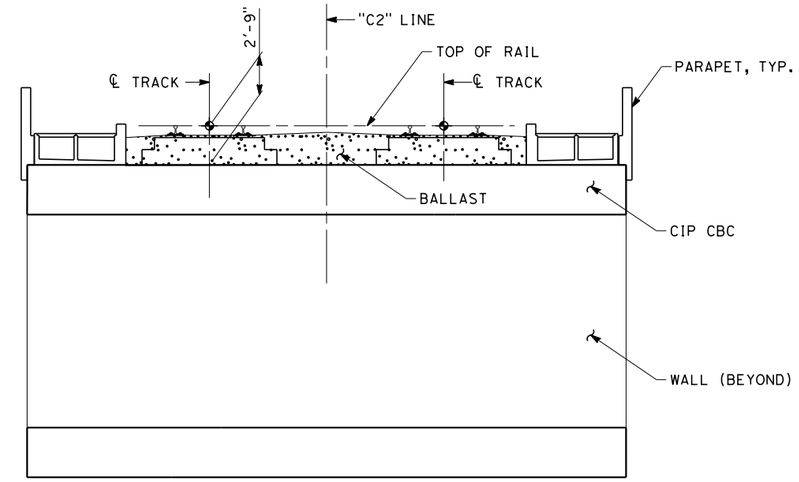
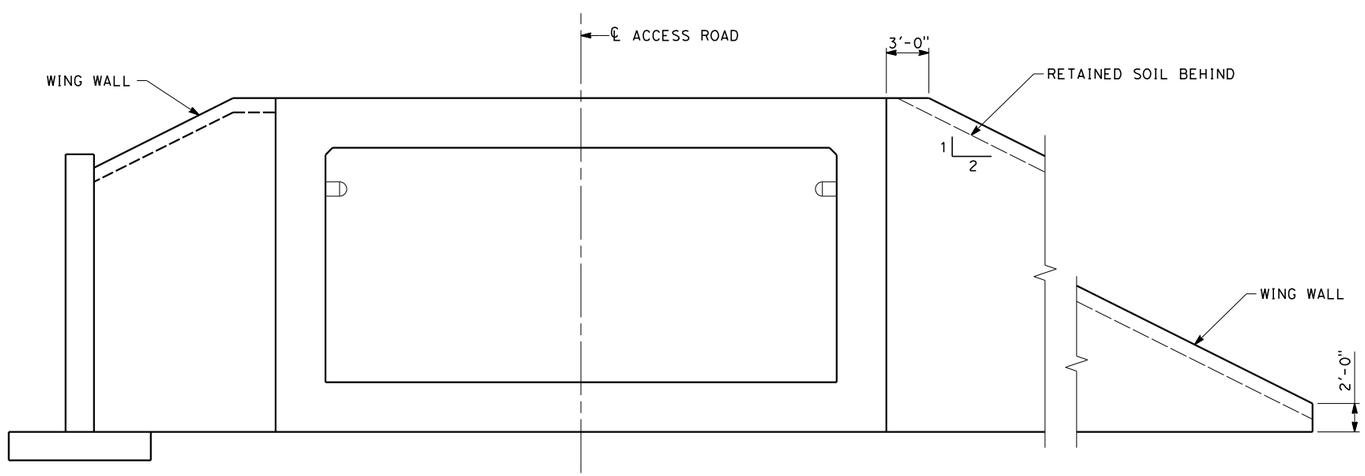


TYPICAL LONGITUDINAL SECTION
SCALE: 3/16" = 1'-0"



SECTION A-A
SCALE: 3/16" = 1'-0"



END SECTION
SCALE: 3/16" = 1'-0"

H-19 BOX CULVERT

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX12
SCALE	AS SHOWN
SHEET NO.	16 OF 23

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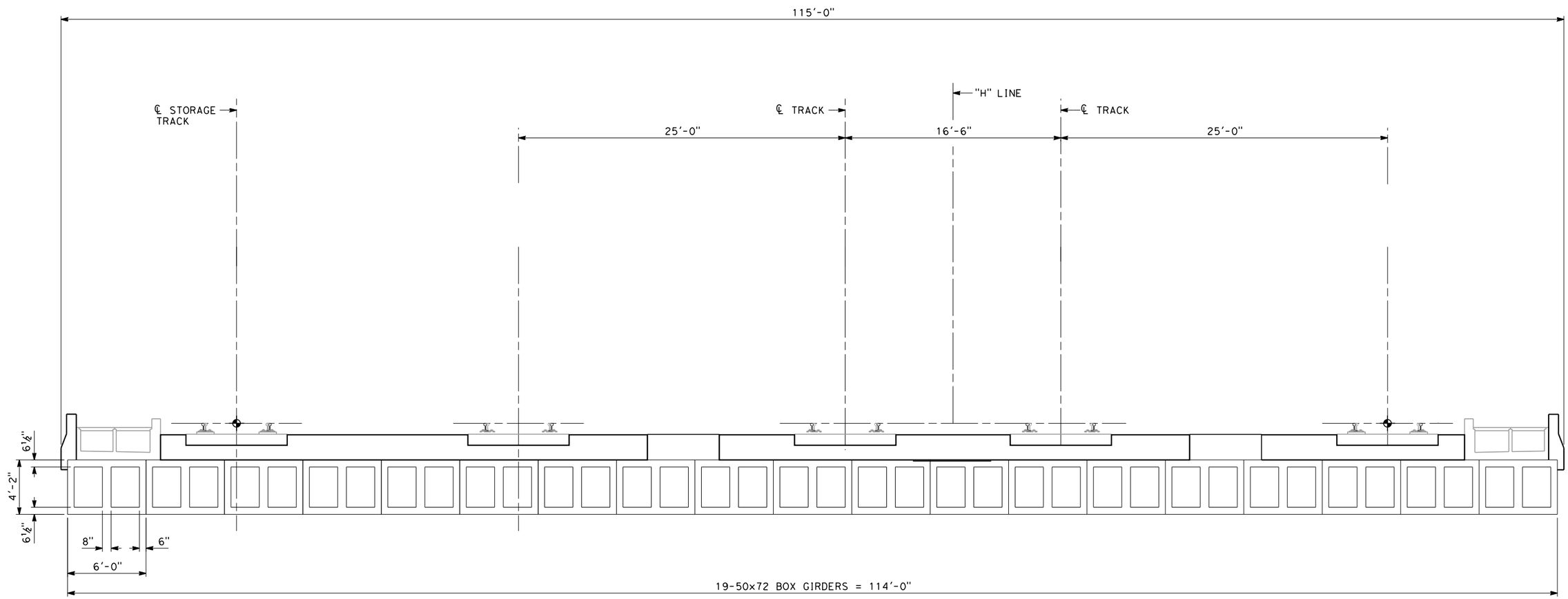

SECTION AT SPAN

SCALE: ¼" = 1'-0"

H-16 TYPICAL SECTION

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX01
SCALE	AS SHOWN
SHEET NO.	17 OF 23

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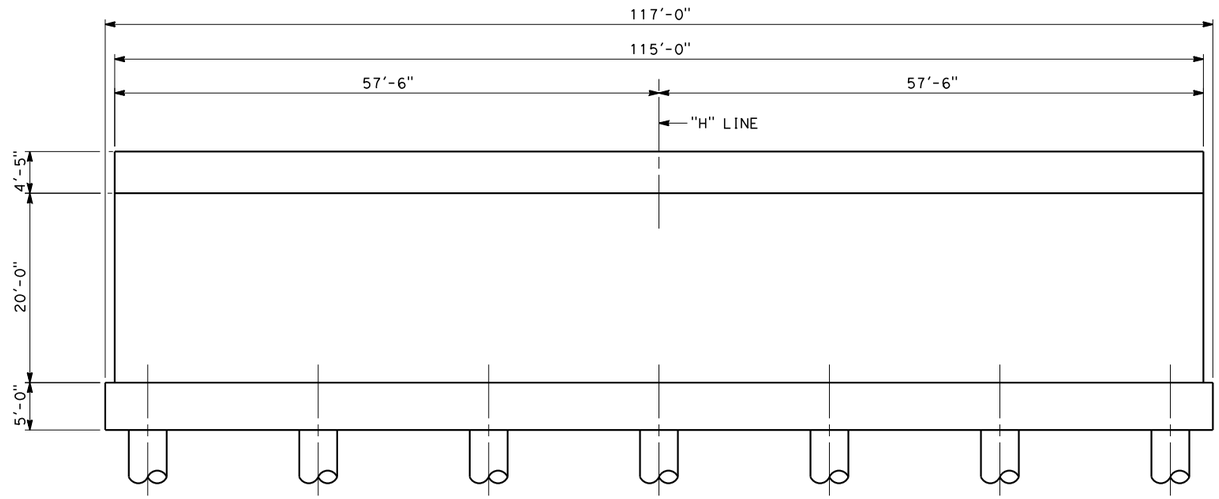

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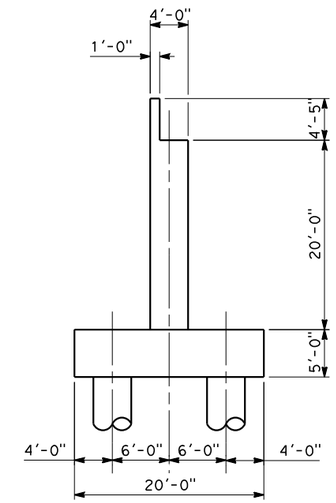

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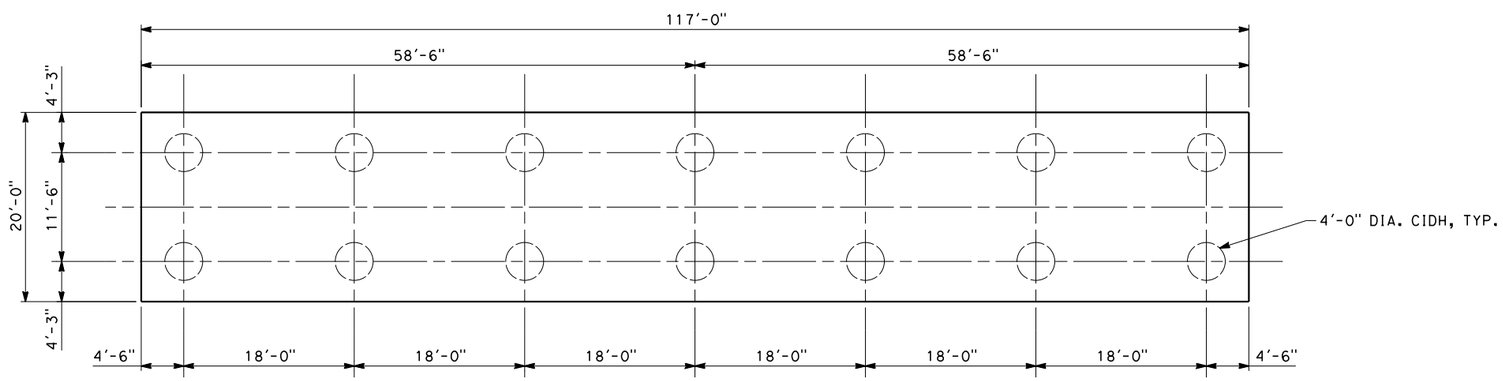

FOOTING PLAN

H-16 ABUTMENT

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IN CHARGE	R. TREVETT
DATE	10/09/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX14
SCALE	AS SHOWN
SHEET NO.	18 OF 23

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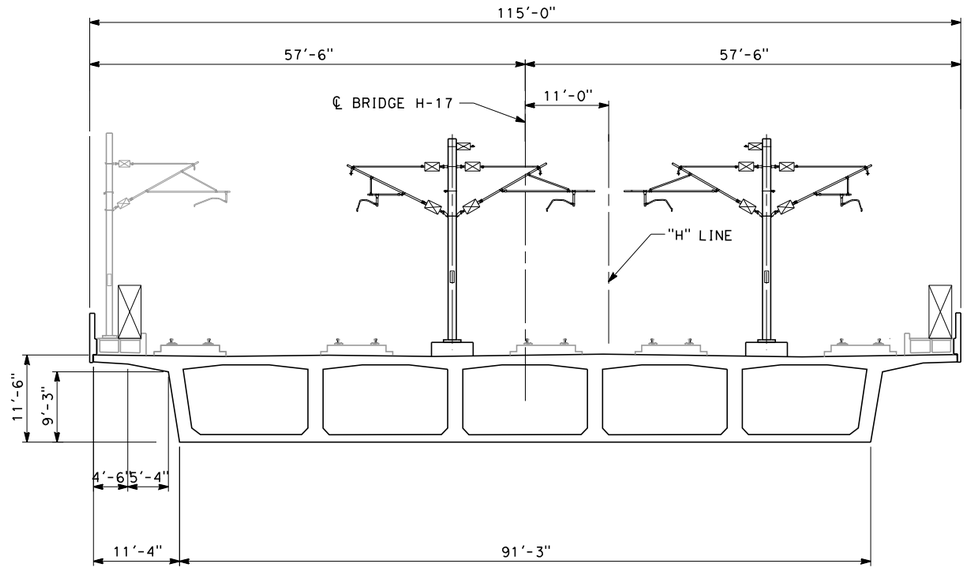

TYPICAL SECTION

H-17 TYPICAL SECTION

10 0 10 20
1"=10'

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DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION
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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
H-17 SJVRR CROSSING
TYPICAL SECTION

CONTRACT NO.
DRAWING NO.
SCALE
SHEET NO. 19 OF 23

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PRELIMINARY ONLY

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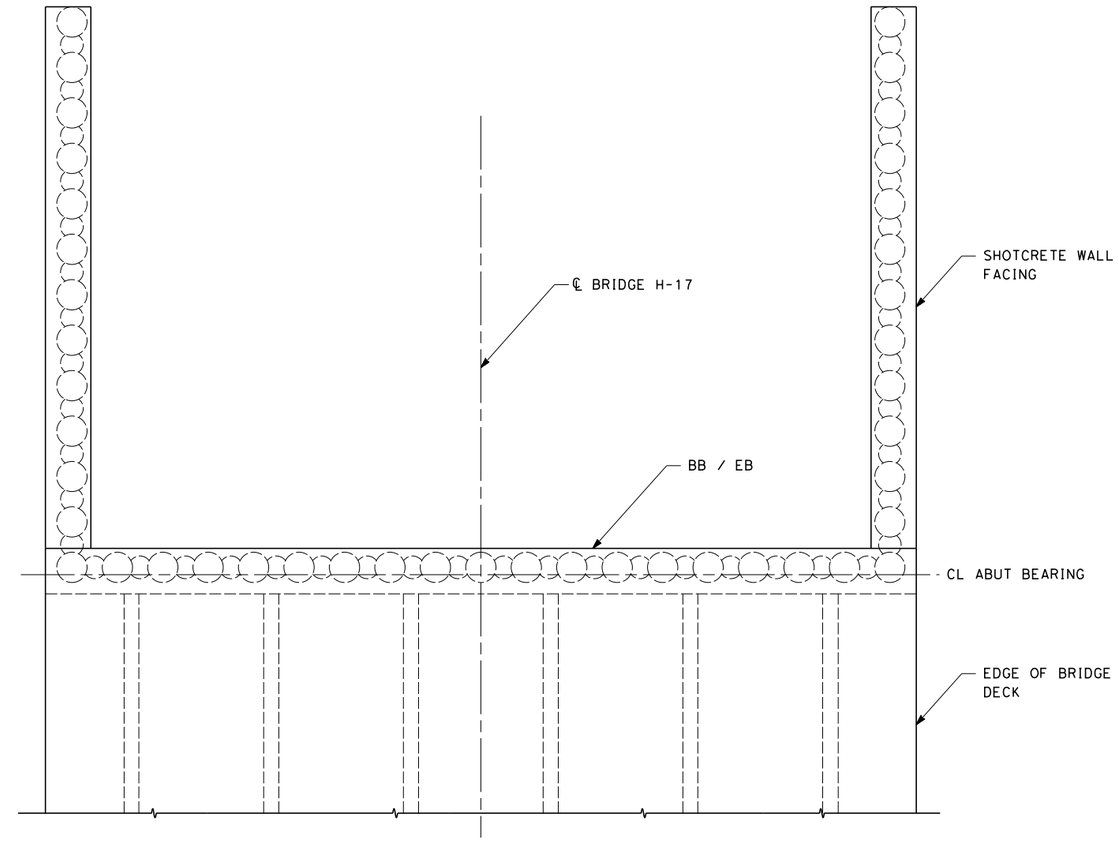
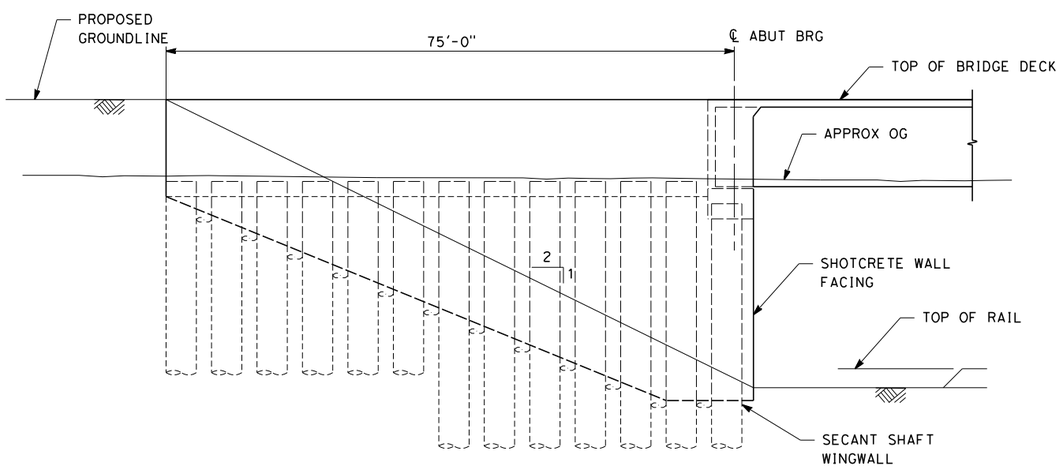
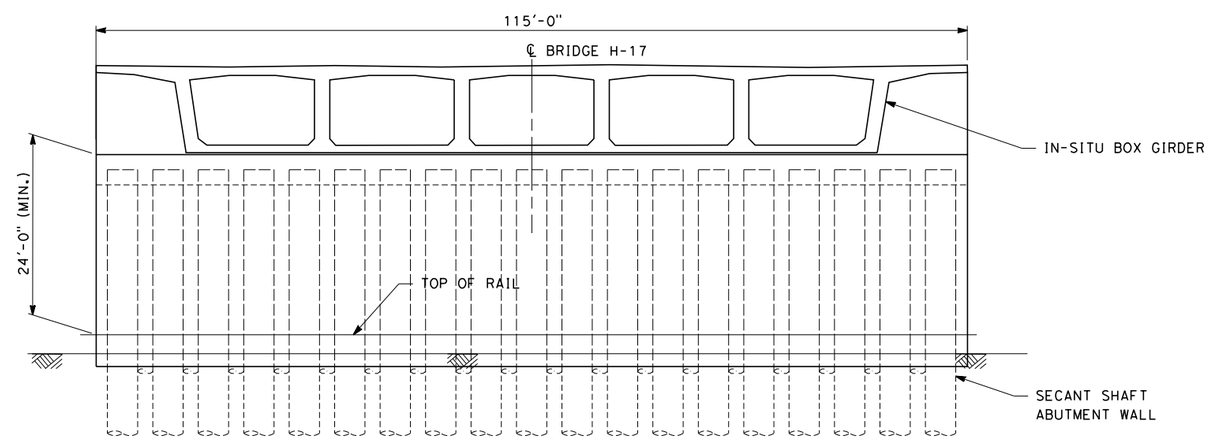
APPENDIX A
ATC 17



PARTIAL PLAN AT ABUTMENT



ELEVATION AT WINGWALL



ELEVATION AT ABUTMENT

10 0 10 20
1"=10'

H-17 ABUTMENT

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DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
H-17 SJVRR CROSSING
ABUTMENT DETAILS

CONTRACT NO.
DRAWING NO.
SCALE
SHEET NO. 20 OF 23

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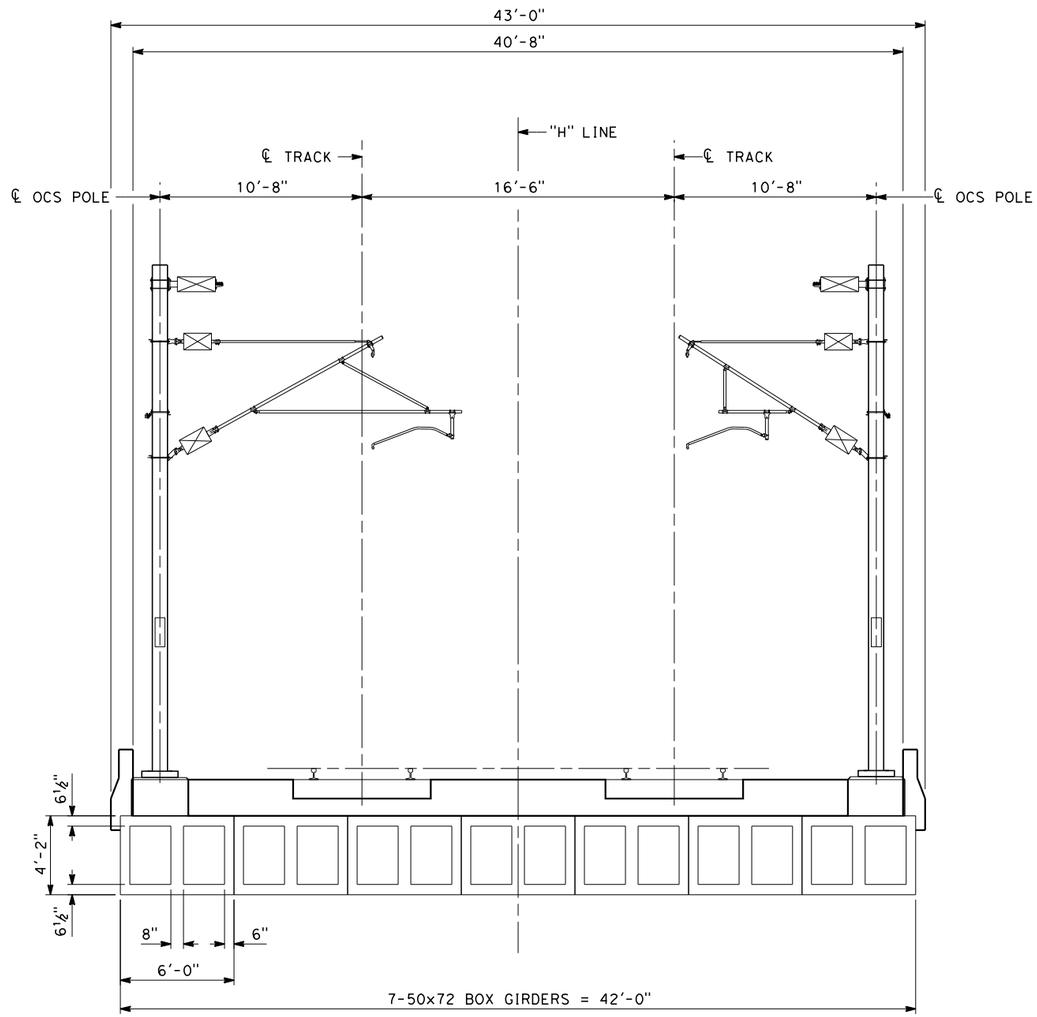

SECTION AT SPAN

SCALE: ¼" = 1'-0"

H-18 TYPICAL SECTION

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
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HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX01
SCALE	AS SHOWN
SHEET NO.	21 OF 23

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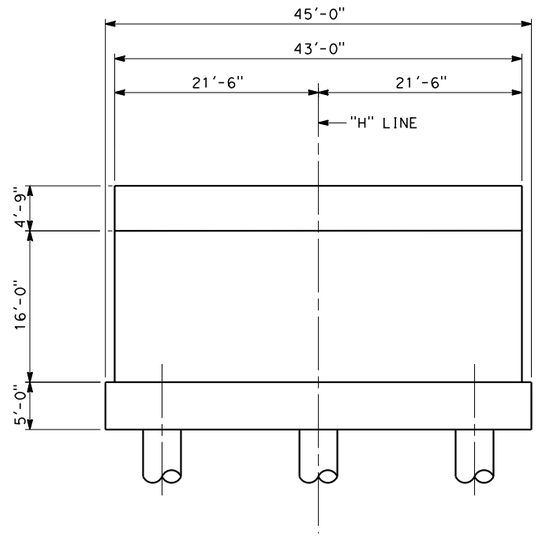

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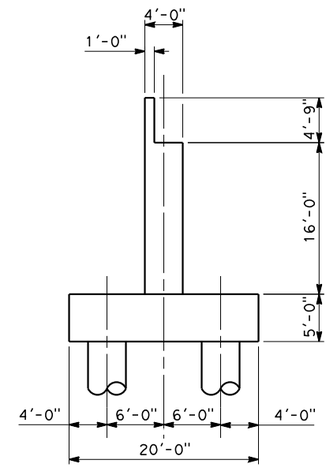

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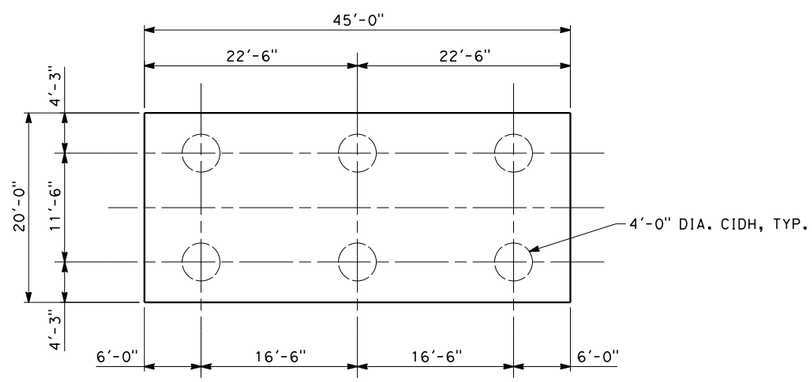

FOOTING PLAN

H-18 ABUTMENT

DISCLAIMER:
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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX15
SCALE	AS SHOWN
SHEET NO.	22 OF 23

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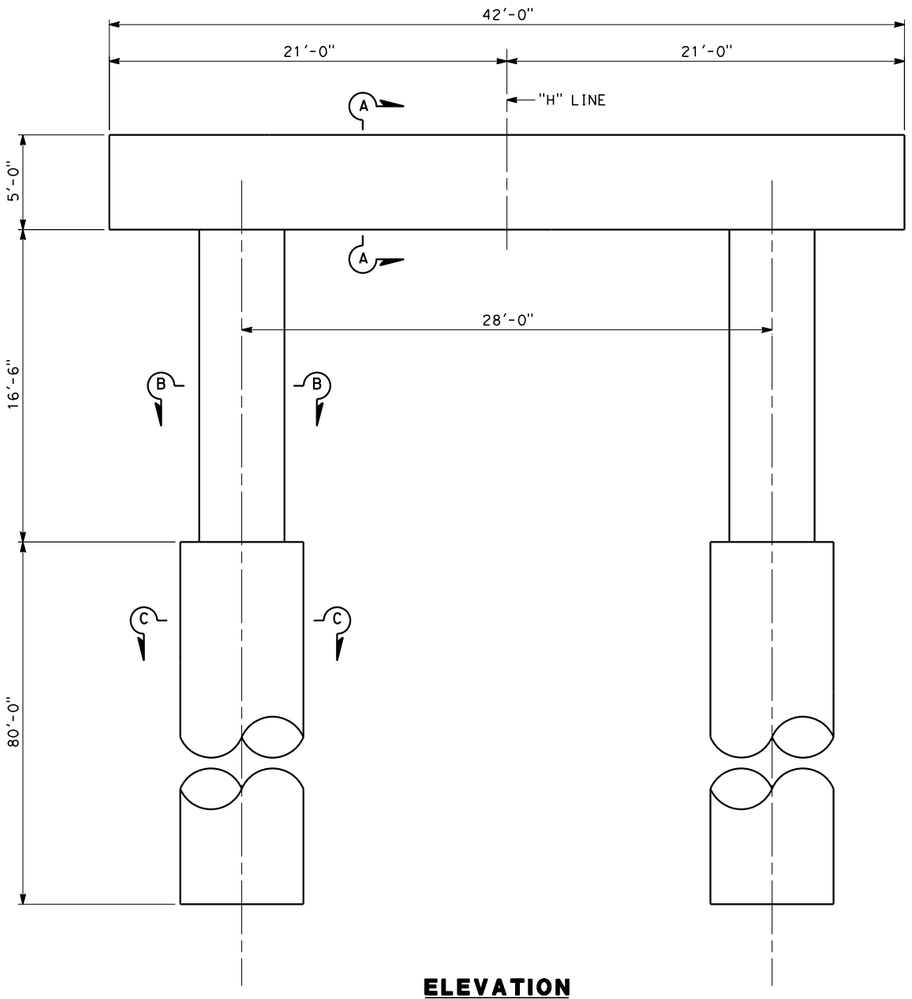
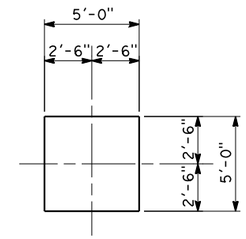
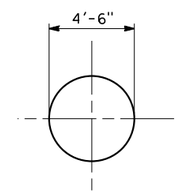
hallal



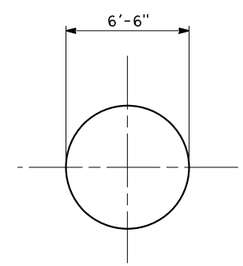
ELEVATION



SECTION A-A



SECTION B-B



SECTION C-C

H-18 BENT

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
HANFORD VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX16
SCALE	AS SHOWN
SHEET NO.	23 OF 23

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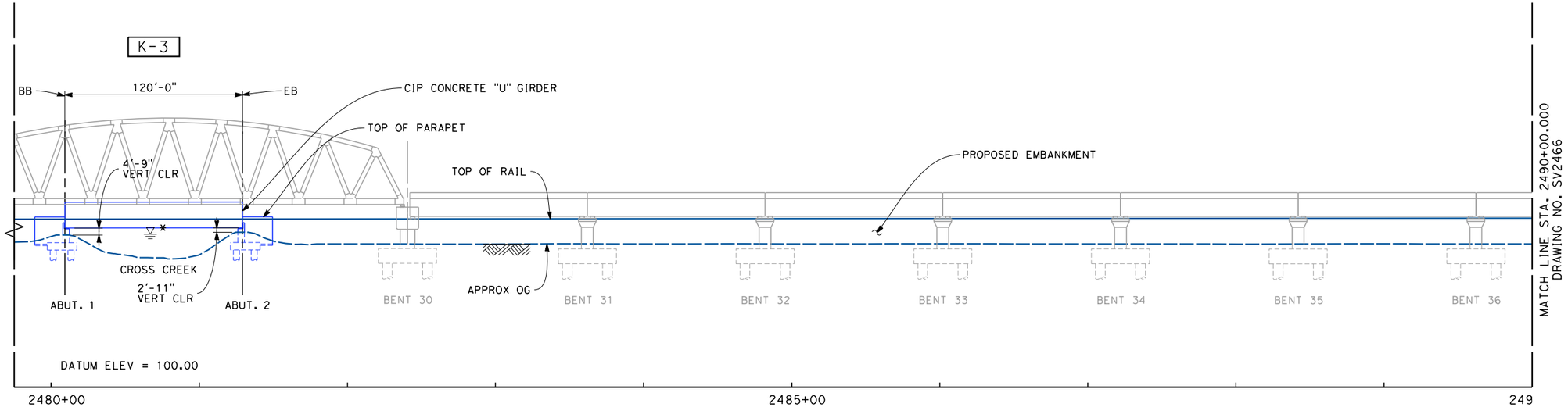
hallal

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

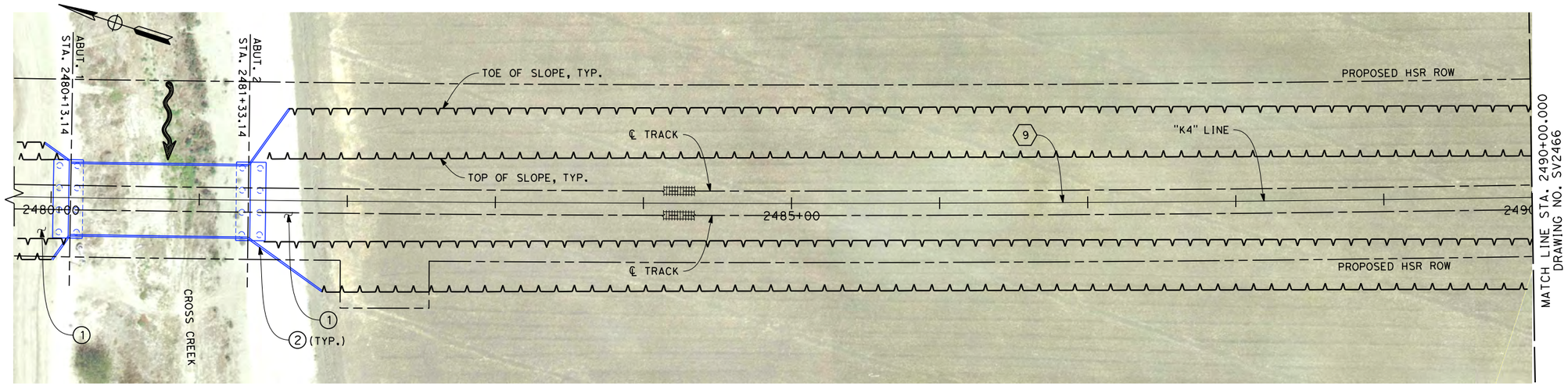
TOP OF RAIL "K4" LINE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

CURVE DATA

(9)

R = 30500.00'

Δ = 49° 01' 18.3"

T = 13906.6'

L = 26095.5'

RFP DESIGN

DFS PROPOSED

40 0 40 80

1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
CROSS CREEK VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2465
SCALE	AS SHOWN
SHEET NO.	6 OF 13

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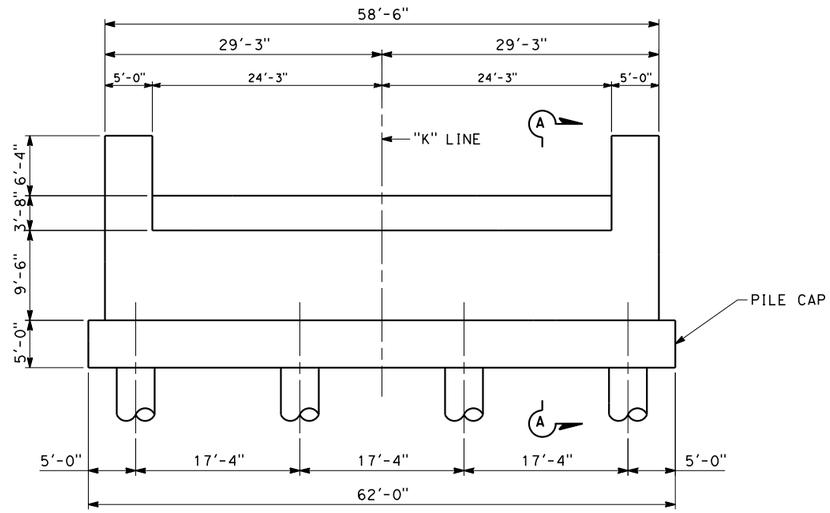
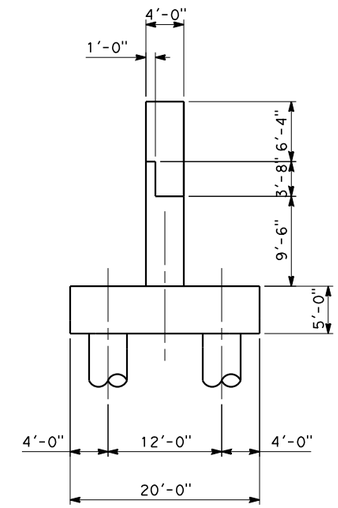
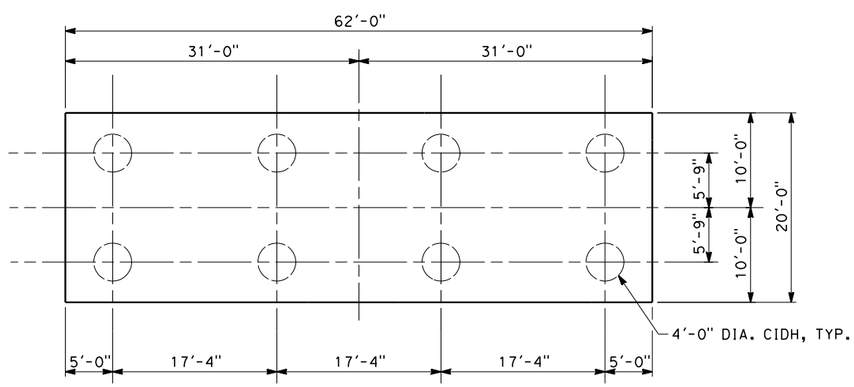
hallal



ELEVATION



SECTION A-A



FOOTING PLAN

K-3 ABUTMENT

DISCLAIMER:
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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
CROSS CREEK BRIDGE
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX01
SCALE	AS SHOWN
SHEET NO.	18 OF 18

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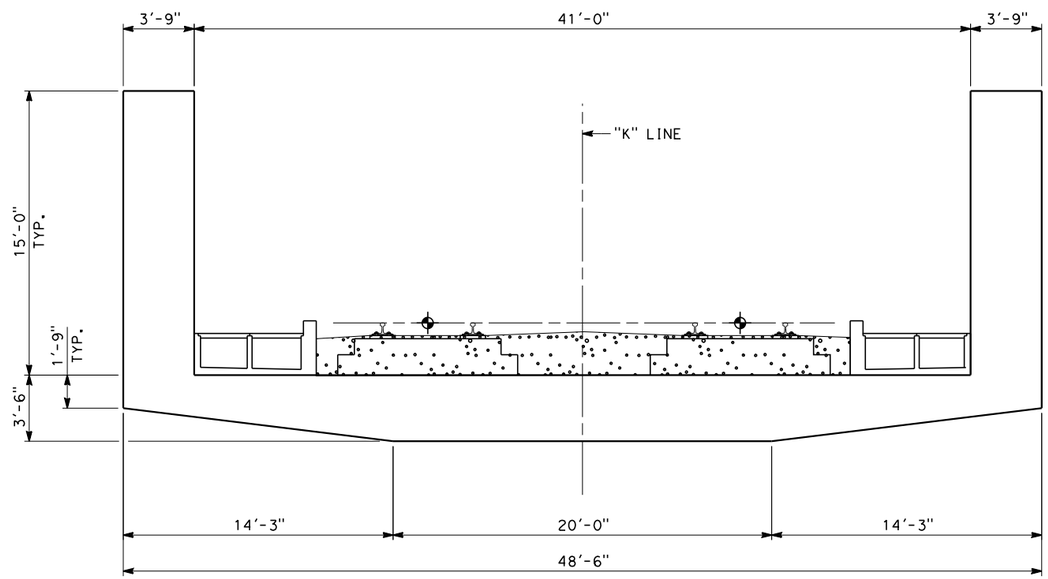

TYPICAL SECTION

K-3 U-GIRDER

DISCLAIMER:
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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
CROSS CREEK BRIDGE
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX02
SCALE	AS SHOWN
SHEET NO.	18 OF 18

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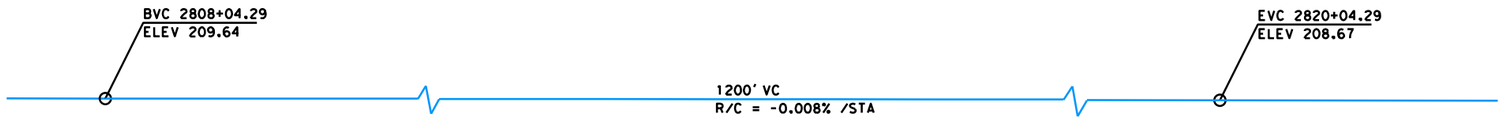
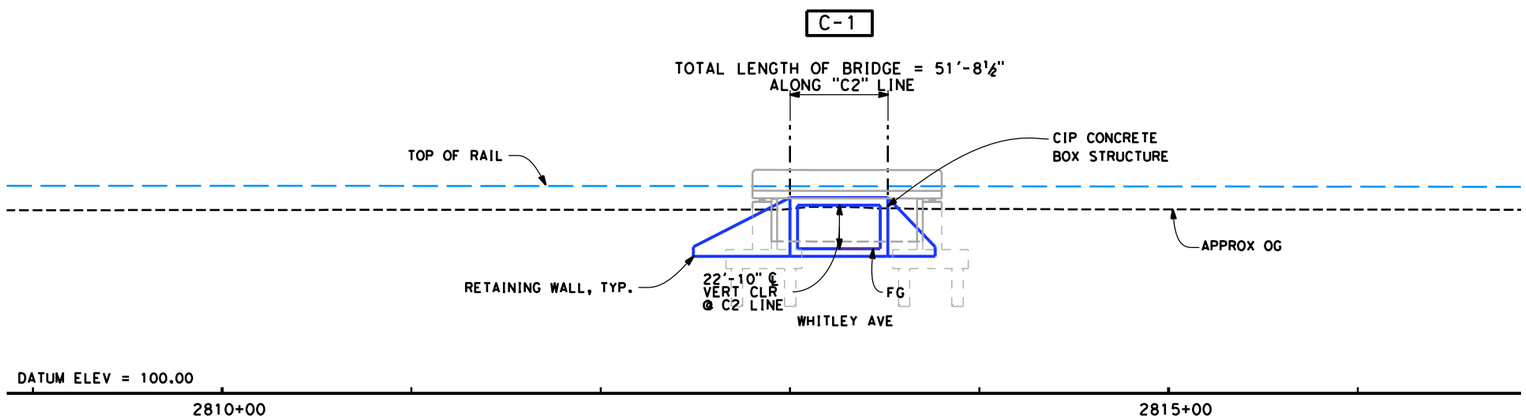


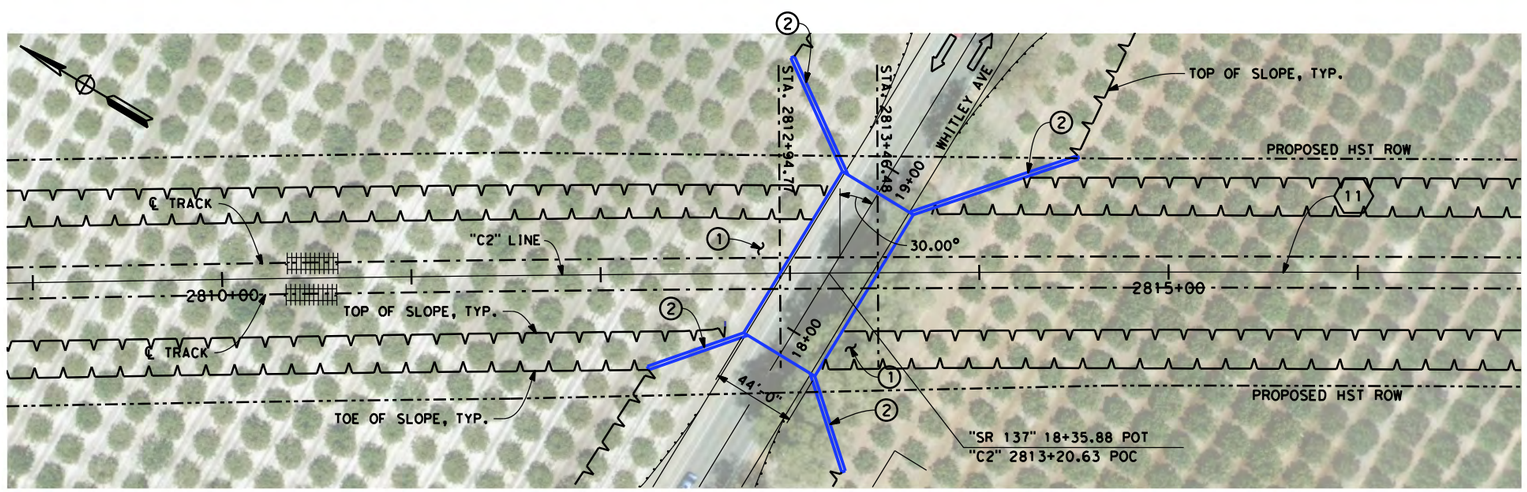
TOP OF RAIL "C2" LINE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) STRUCTURE APPROACH SLAB

(2) RETAINING WALL

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

INDICATES RAILROAD AND HIGH-SPEED TRAIN TRACK

RFP DESIGN

DFS PROPOSED

POINT OF MINIMUM CLEARANCE

CURVE DATA

(11)

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

40 0 40 80
1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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

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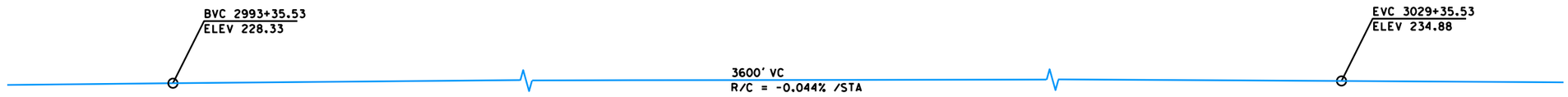
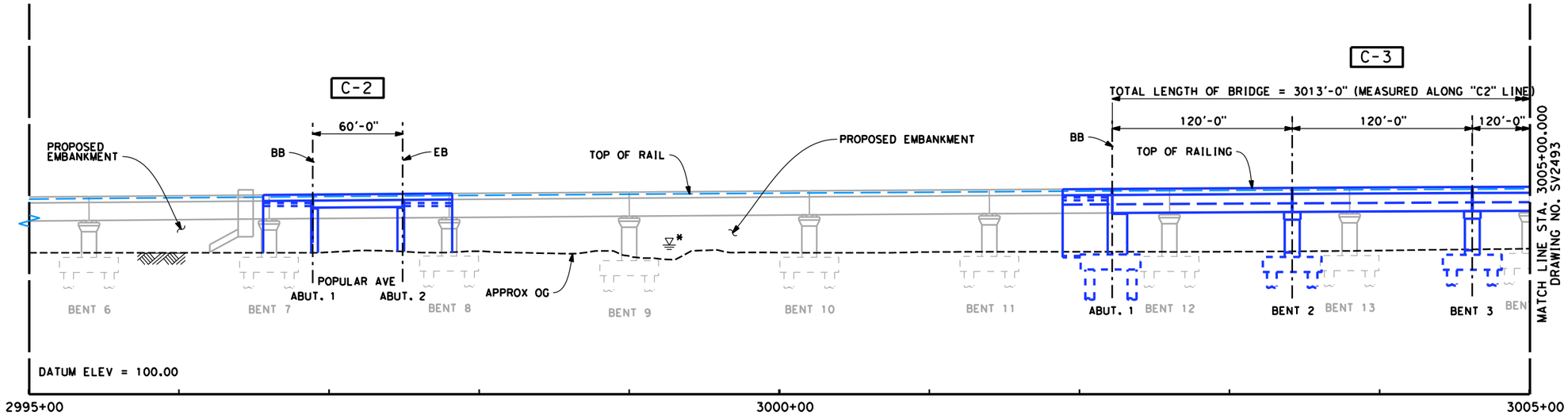


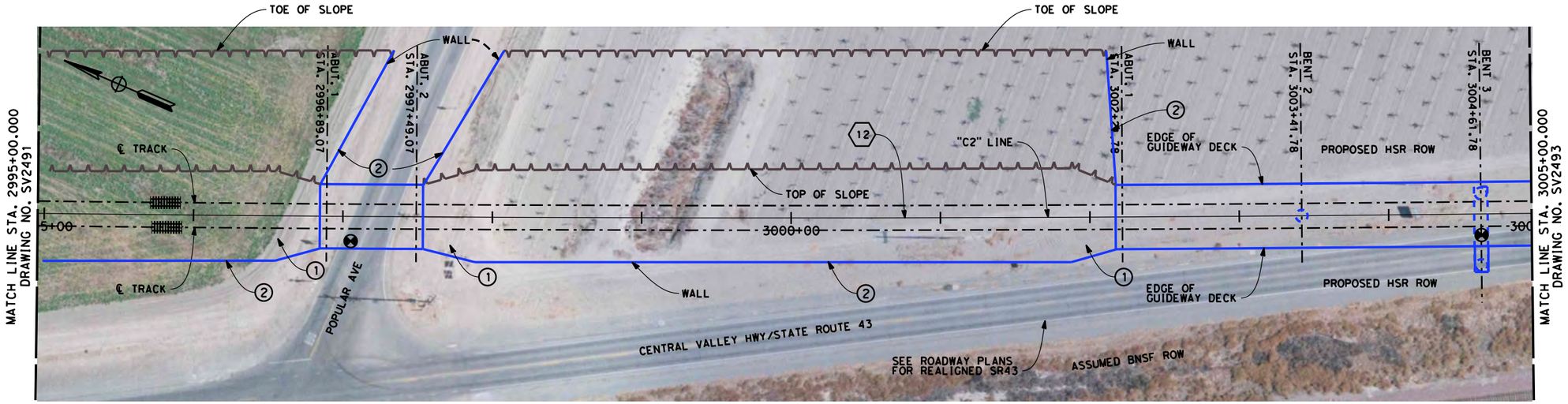
TOP OF RAIL "C2" LINE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

⊗ POINT OF MINIMUM CLEARANCE

CURVE DATA

(12)

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

RFP DESIGN
DFS PROPOSED

40 0 40 80
1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2492b
SCALE	AS SHOWN
SHEET NO.	3 OF 11

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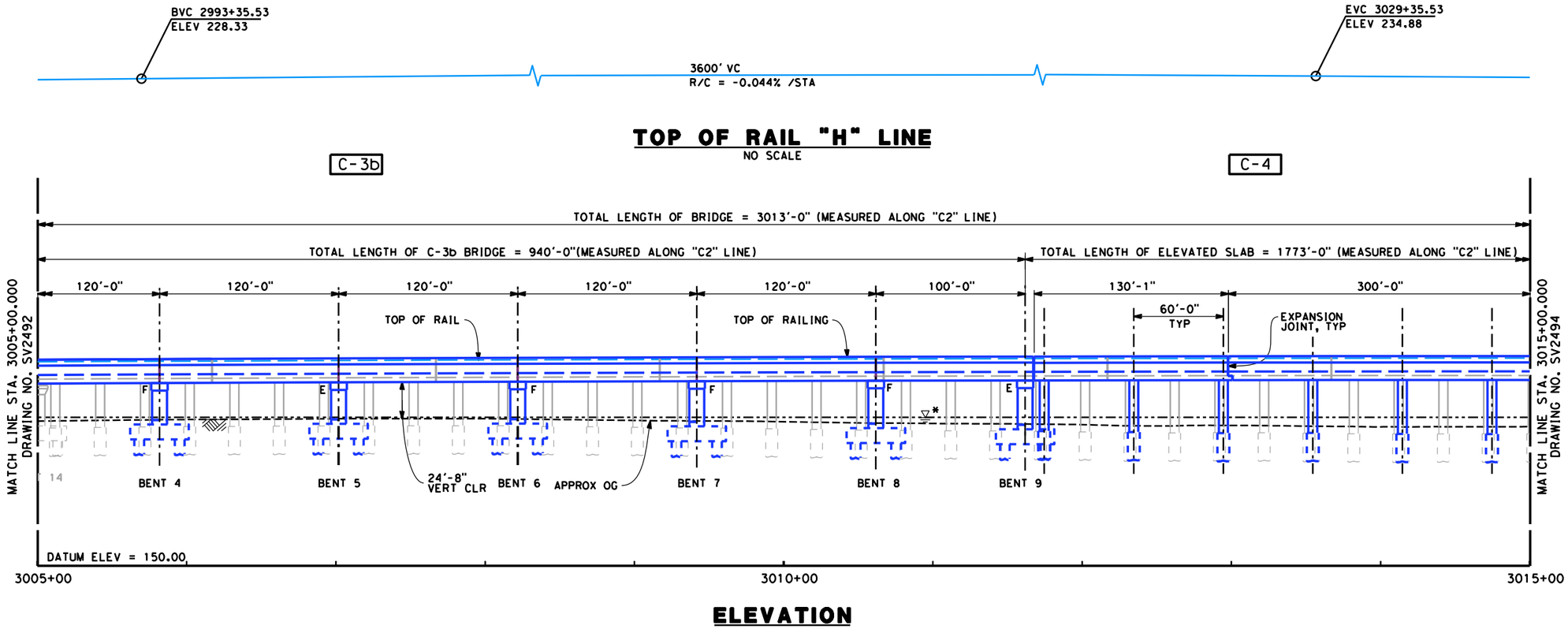
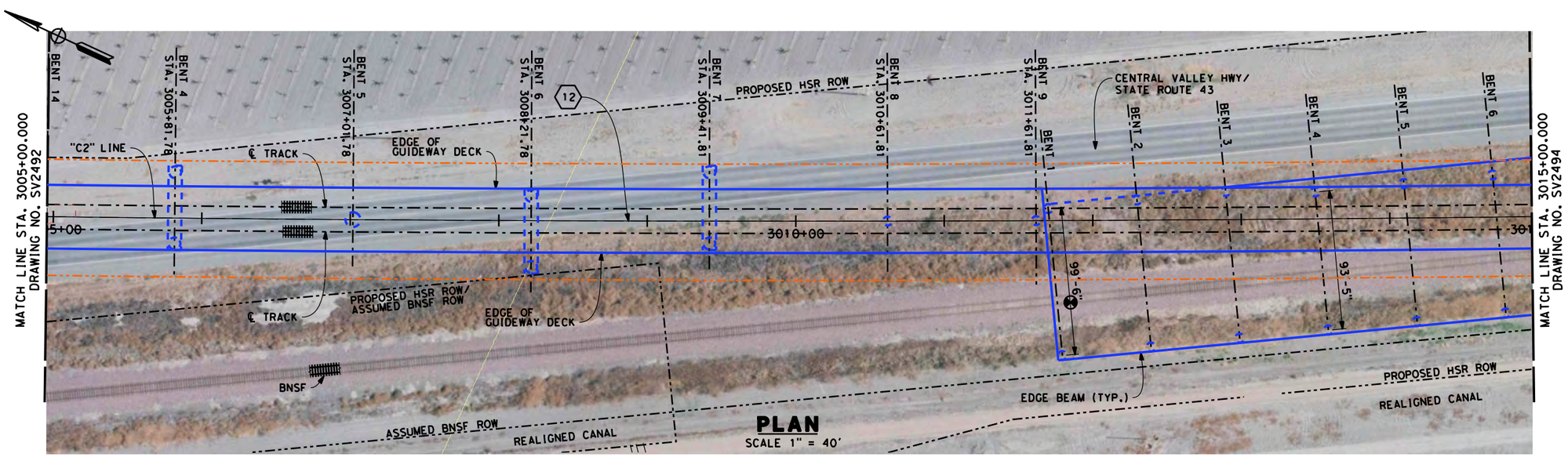


TOP OF RAIL "H" LINE

NO SCALE

ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

⊗ POINT OF MINIMUM CLEARANCE

CURVE DATA

(12)

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

RFP DESIGN
DFS PROPOSED

40 0 40 80
1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2493b
SCALE	AS SHOWN
SHEET NO.	4 OF 11

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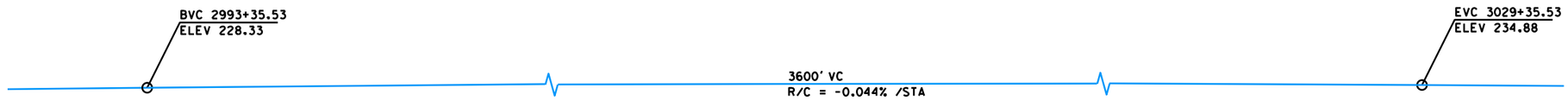
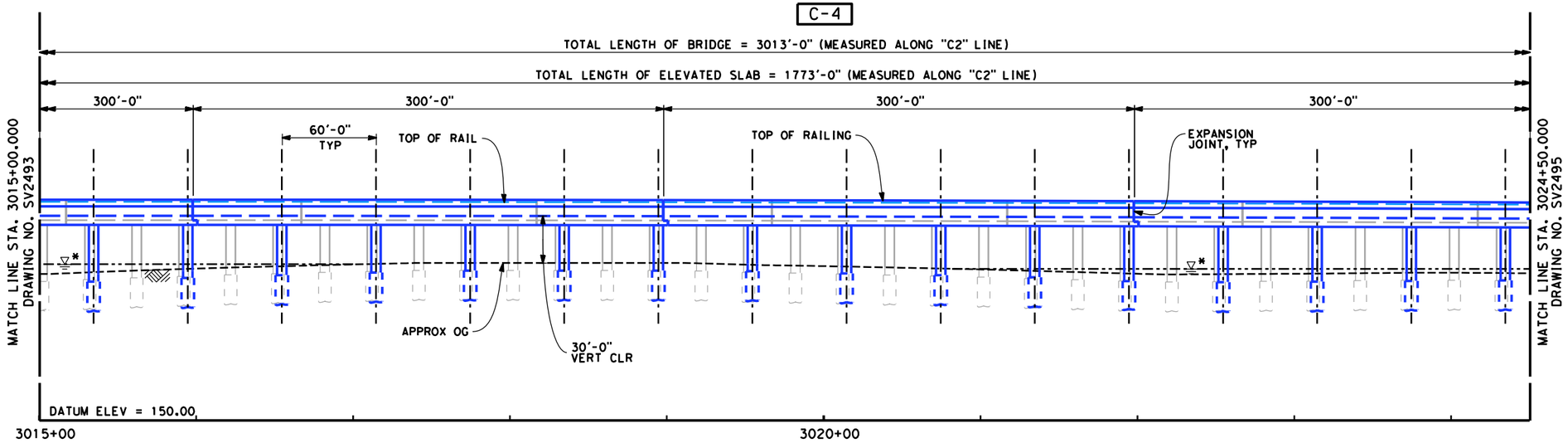


TOP OF RAIL "H" LINE

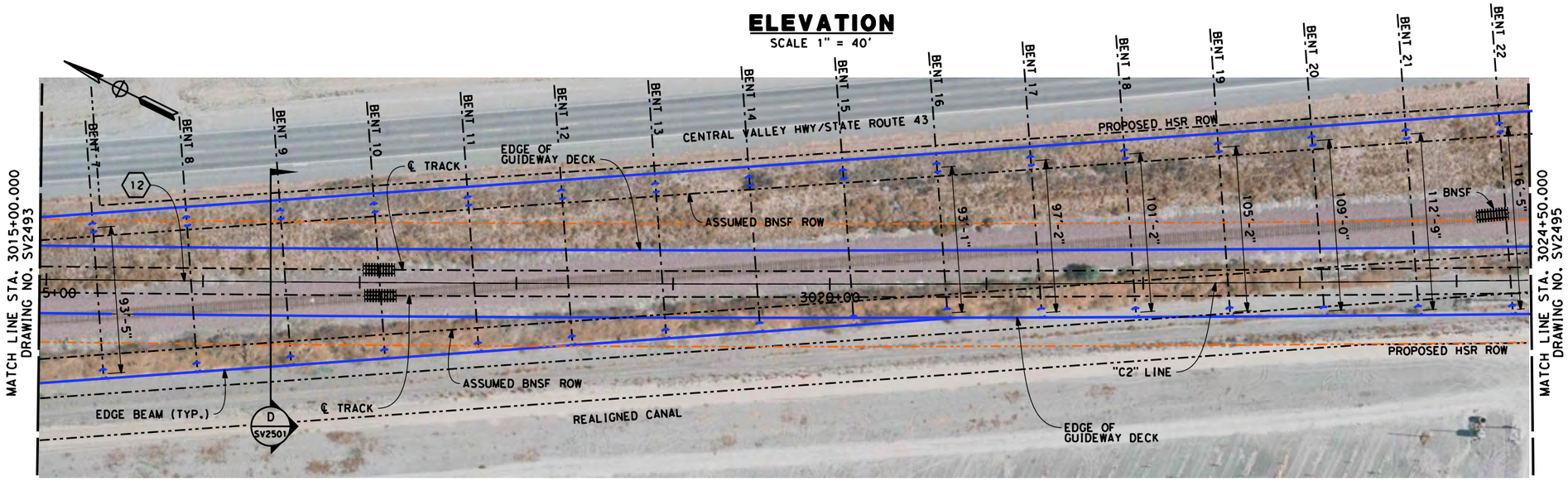
NO SCALE

C-4



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

CURVE DATA

(12)

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

RFP DESIGN
DFS PROPOSED

40 0 40 80
1"=40'

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DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2494b
SCALE	AS SHOWN
SHEET NO.	5 OF 11

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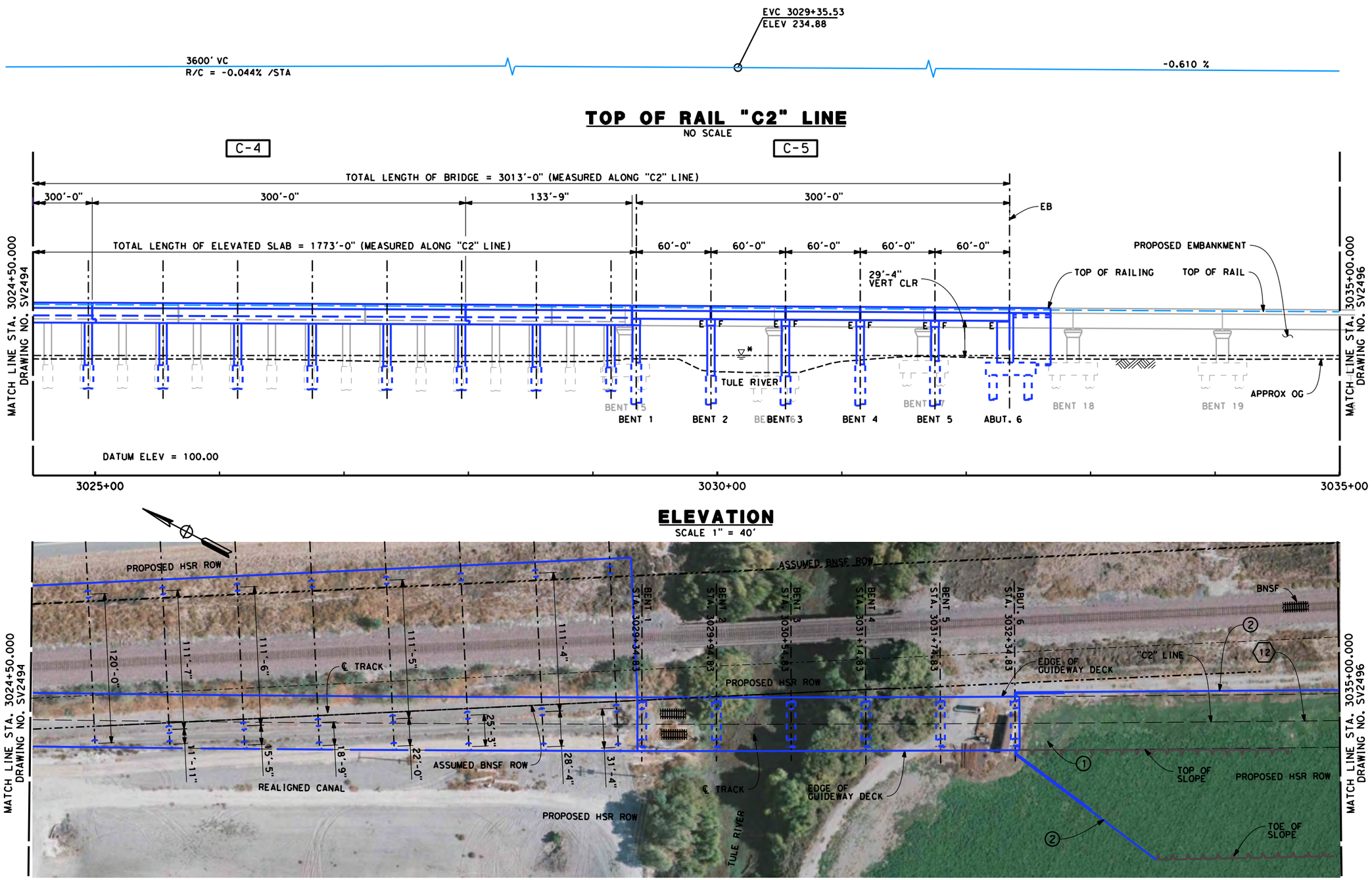

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

⊗ POINT OF MINIMUM CLEARANCE

CURVE DATA

(12)

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

RFP DESIGN
DFS PROPOSED

DISCLAIMER:
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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2495b
SCALE	AS SHOWN
SHEET NO.	6 OF 11

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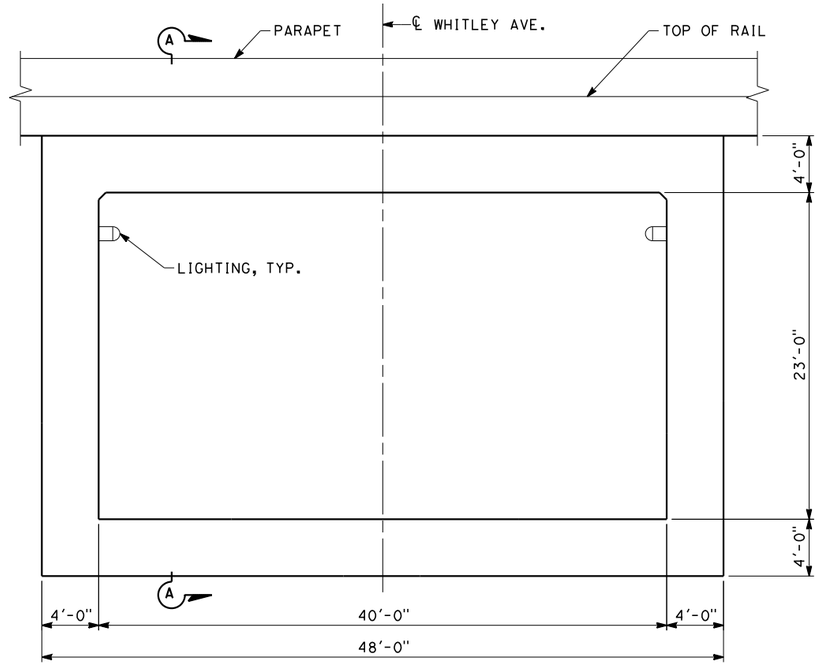
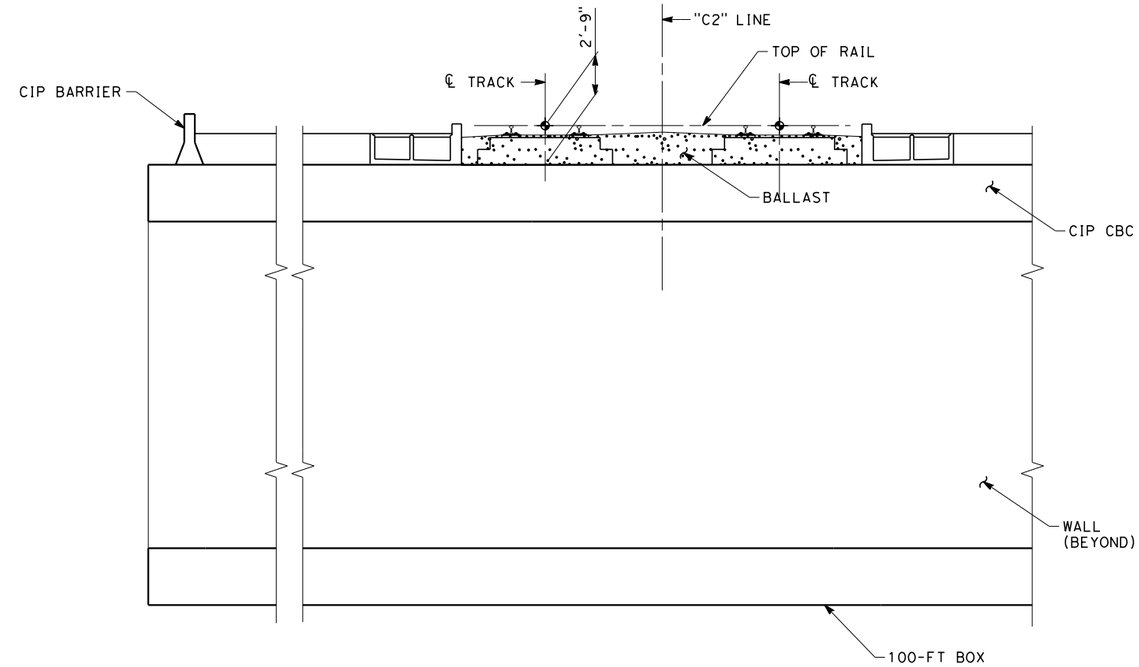
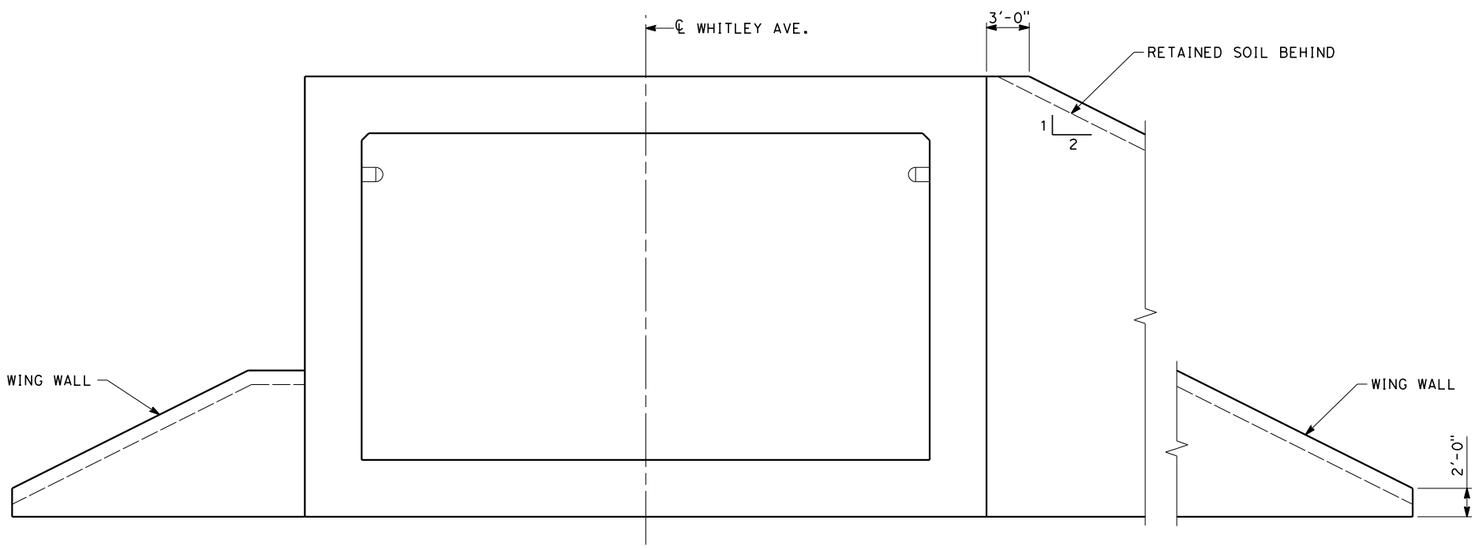


TYPICAL LONGITUDINAL SECTION
SCALE: 3/16" = 1'-0"



SECTION A-A
SCALE: 3/16" = 1'-0"



END SECTION
SCALE: 3/16" = 1'-0"

C-1 BOX CULVERT

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DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX02
SCALE	AS SHOWN
SHEET NO.	1 OF 7

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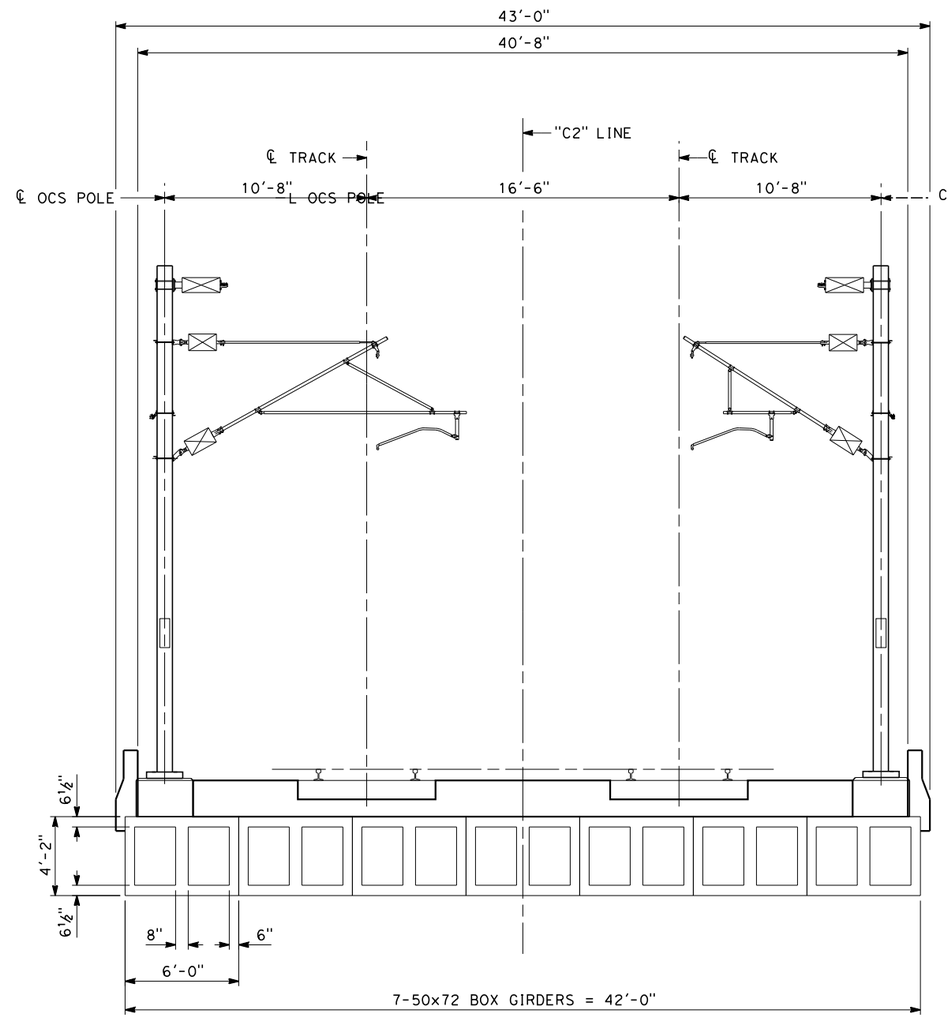
dreeszega



SECTION AT SPAN

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

C-2 TYPICAL SECTION

DISCLAIMER:
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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX01
SCALE	AS SHOWN
SHEET NO.	2 OF 7

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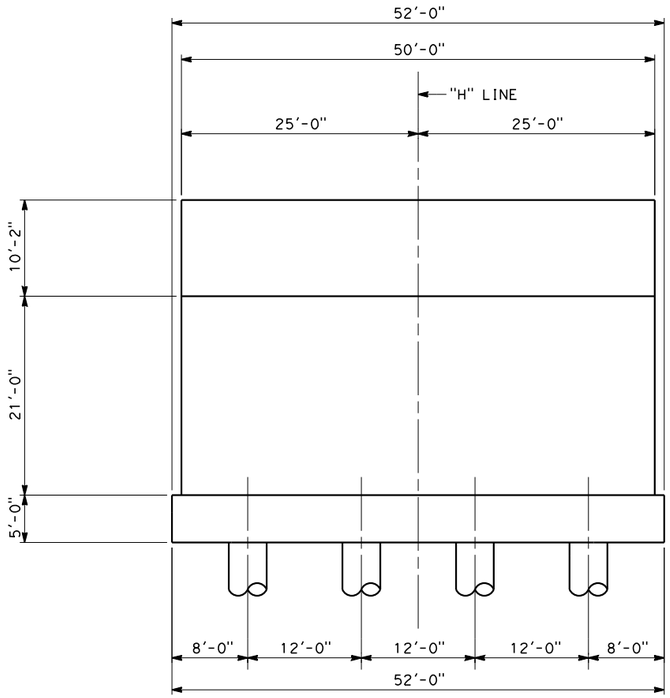
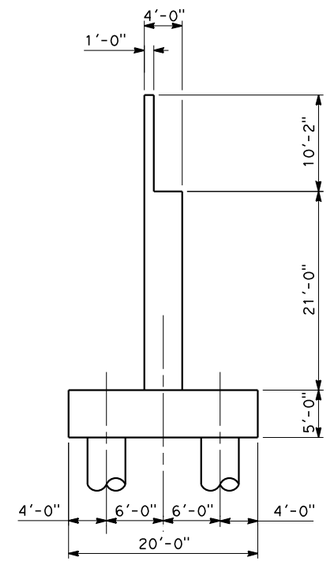
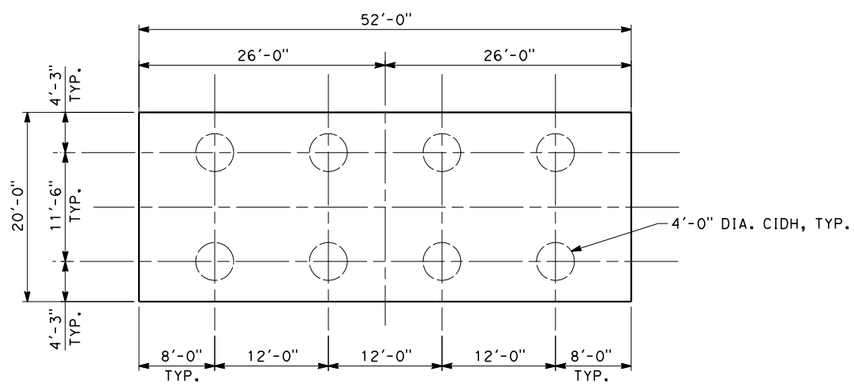


ELEVATION



SECTION



FOOTING PLAN

C-2 ABUTMENT

DISCLAIMER:
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DRAWN BY	A. PRICE
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IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX04
SCALE	AS SHOWN
SHEET NO.	3 OF 7

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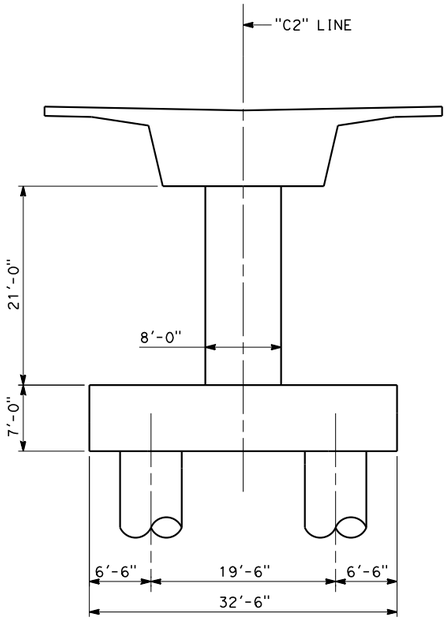
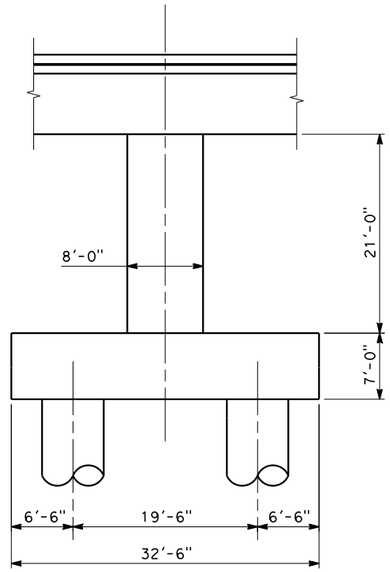


ELEVATION AT BENT 2
(AT FIXED ENDS)



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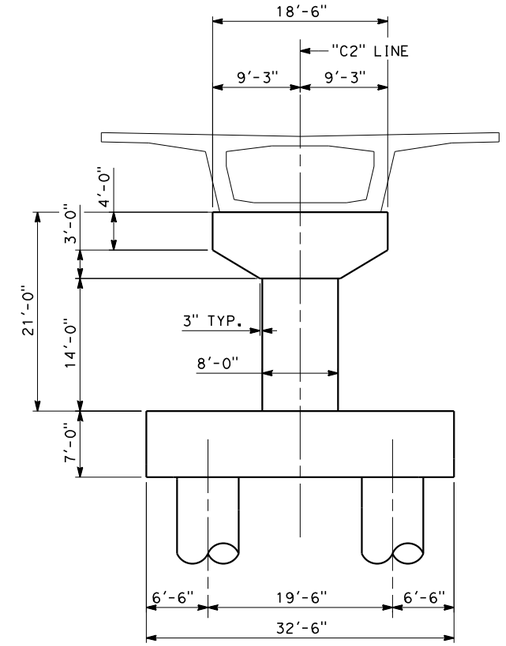

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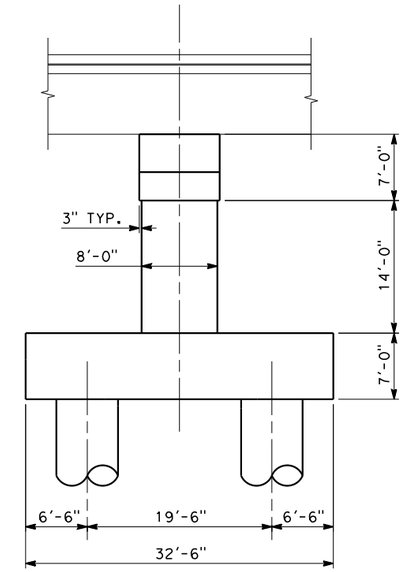
(AT EXPANSION ENDS)



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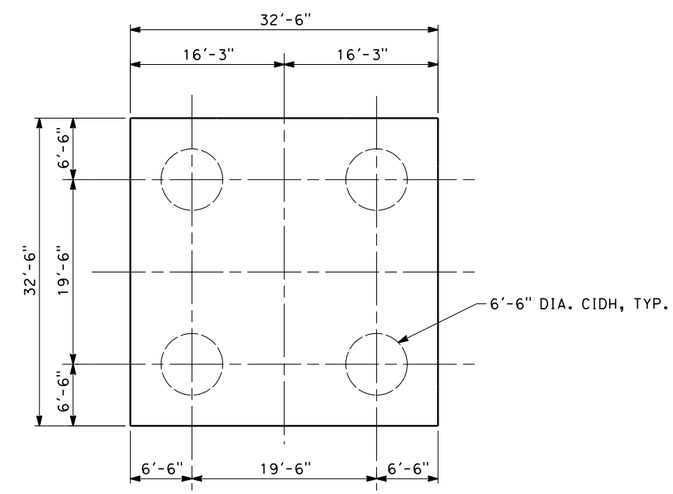

FOOTING PLAN

C-3 BENT

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DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C-2
STATE ROUTE 43 BNSF VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX05
SCALE	AS SHOWN
SHEET NO.	4 OF 7

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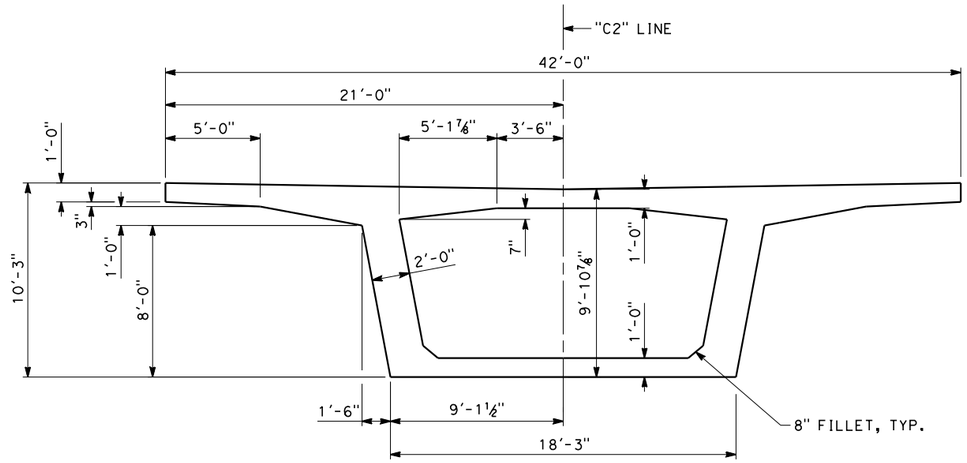
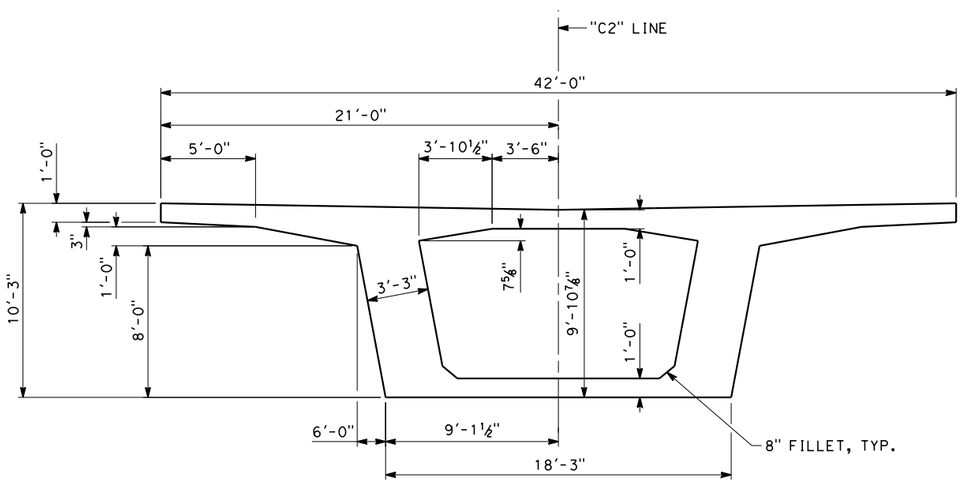


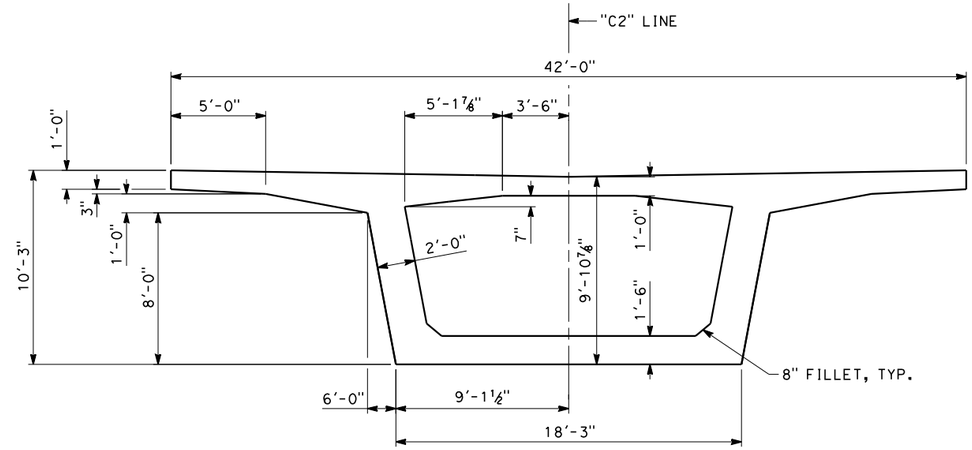
TYPICAL SECTION

DIMENSIONS SYMMETRICAL ABOUT ℄



SECTION AT ABUTMENT

DIMENSIONS SYMMETRICAL ABOUT ℄



SECTION AT PIER

DIMENSIONS SYMMETRICAL ABOUT ℄

C-3 120' SPAN TYPICAL SECTIONS

DISCLAIMER:
THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE HSR AND ROADWAY DESIGN ENHANCEMENTS. DRAINAGE, UTILITIES, AND IRRIGATION CANALS ARE NOT SHOWN. THE HSR PROFILE IS BASED ON DRAINAGE AND WILDLIFE CROSSINGS IN THE RFP DESIGN AND THE DFS PROPOSED ATC DESIGNS AS SUBMITTED AND ACCEPTED BY THE AUTHORITY. THIS DOCUMENT AND ASSOCIATED ENGINEERING DETAILS REFLECT PRELIMINARY SCHEMATIC-LEVEL DESIGN ONLY. THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION.

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IN CHARGE	R. TREVETT
DATE	10/09/14

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX07
SCALE	AS SHOWN
SHEET NO.	5 OF 7

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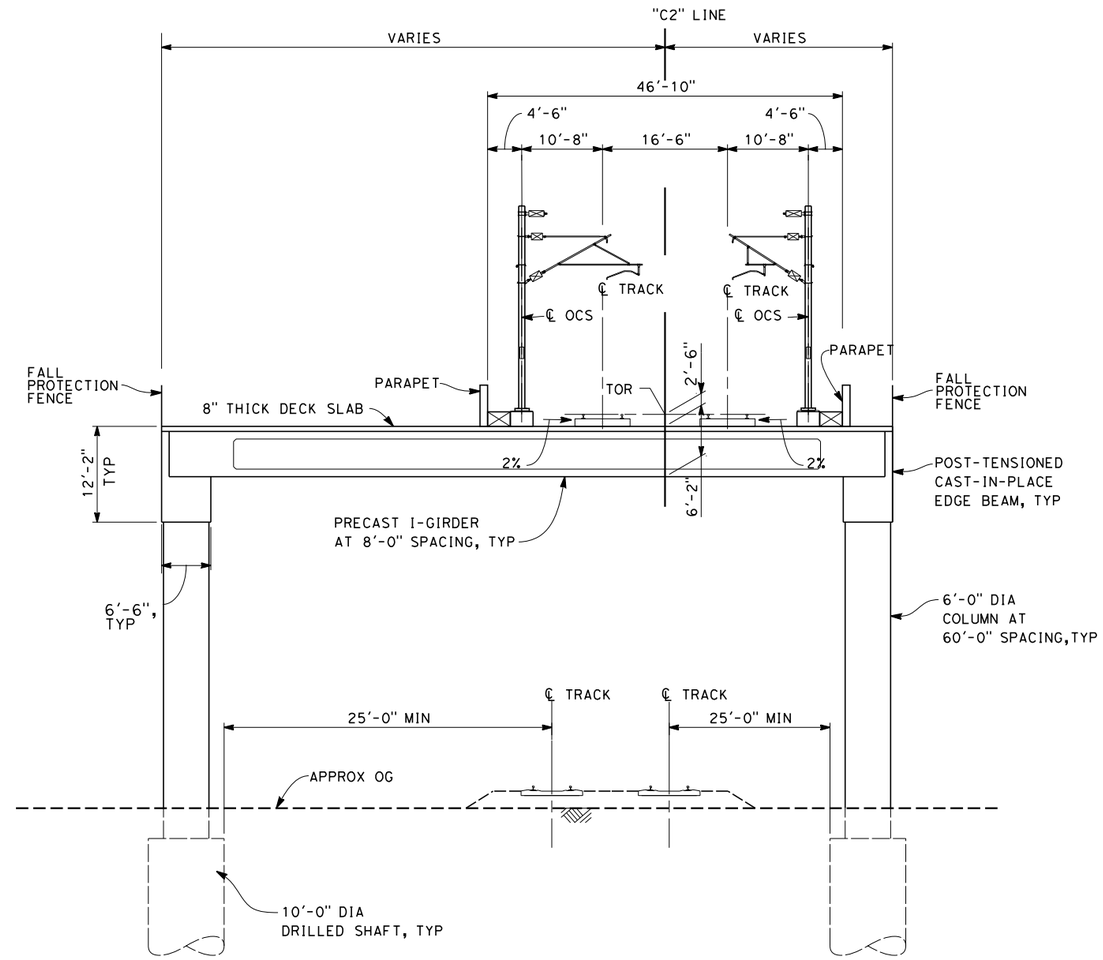
dreeszega



TYPICAL SECTION

SCALE: 1" = 10'

ELEVATED SLAB STRUCTURE

10 0 10 20
1"-10'

C-4 TYPICAL SECTION

DISCLAIMER:
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IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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

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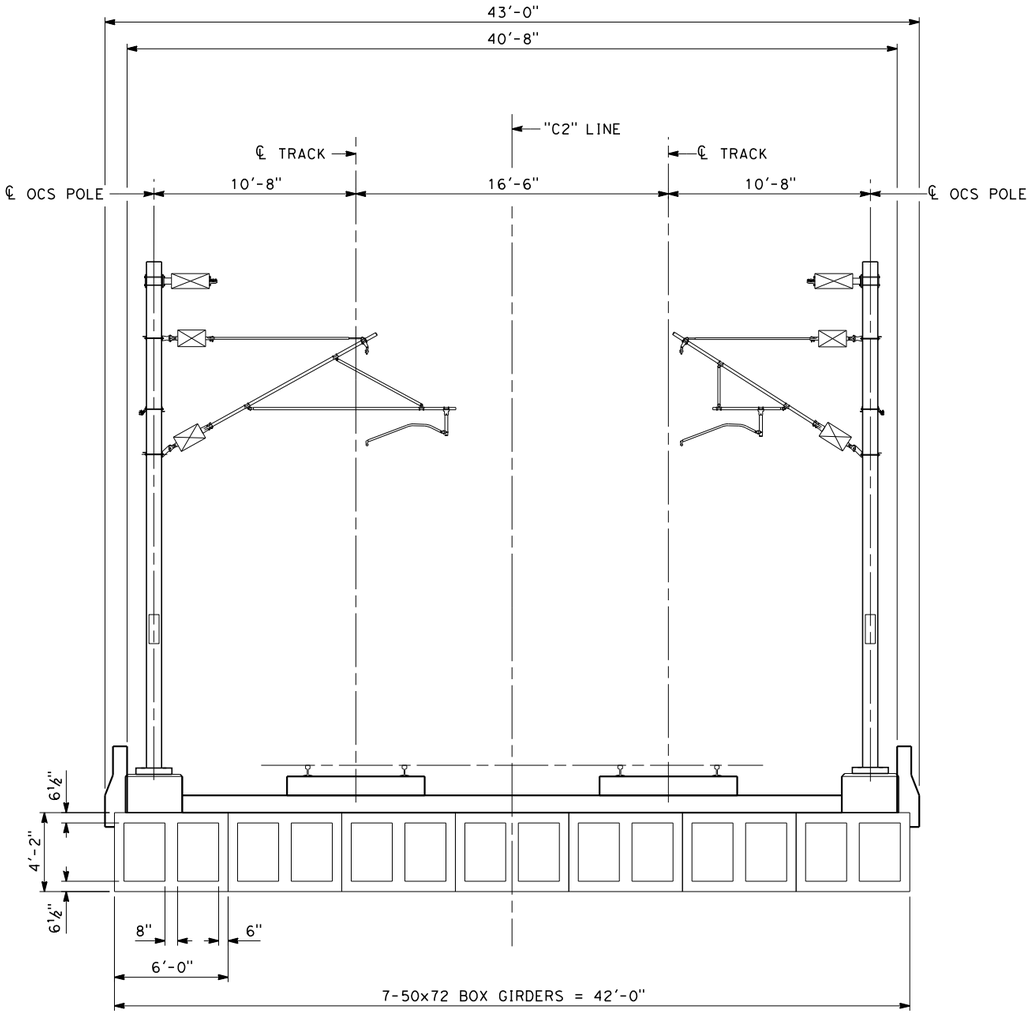
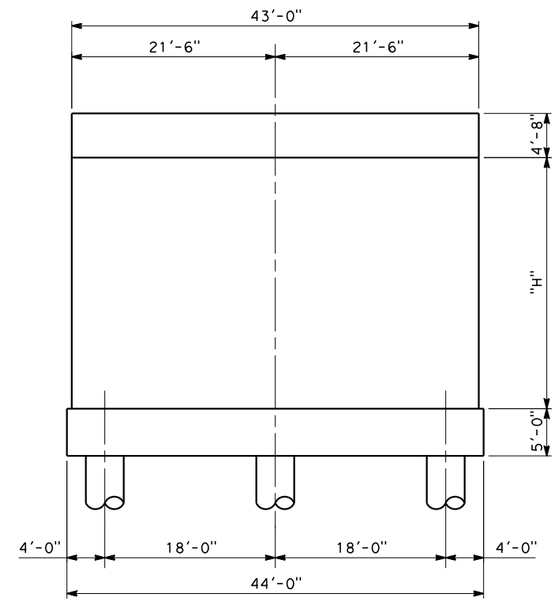
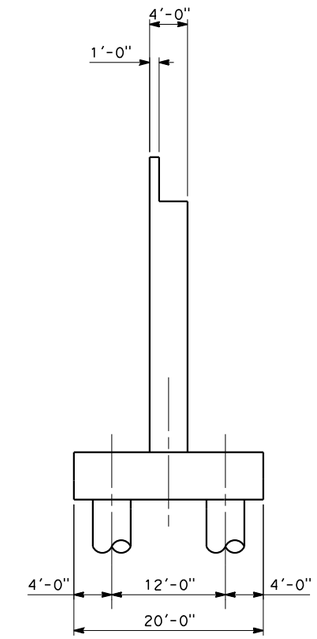


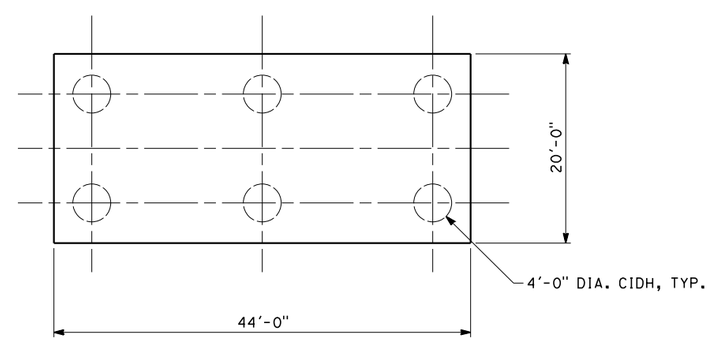
SECTION AT SPAN
SCALE: ¼" = 1'-0"



ELEVATION
SCALE: ⅛" = 1'-0"



SECTION
SCALE: ⅛" = 1'-0"



FOOTING PLAN
SCALE: ⅛" = 1'-0"

DIMENSIONS	
DIMENSIONS	C-5
"H"	35'-2"

C-5 ABUTMENT

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DESIGNED BY K. LEE
DRAWN BY A. PRICE
CHECKED BY G. DREESZEN
IN CHARGE R. TREVETT
DATE 10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR 06-0003
DRAWING NO. SVXX01
SCALE AS SHOWN
SHEET NO. 7 OF 7

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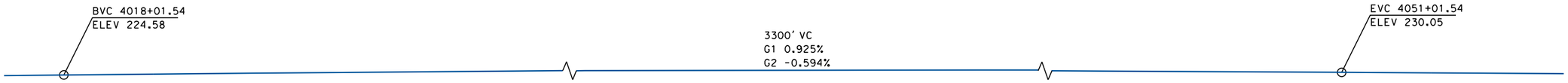
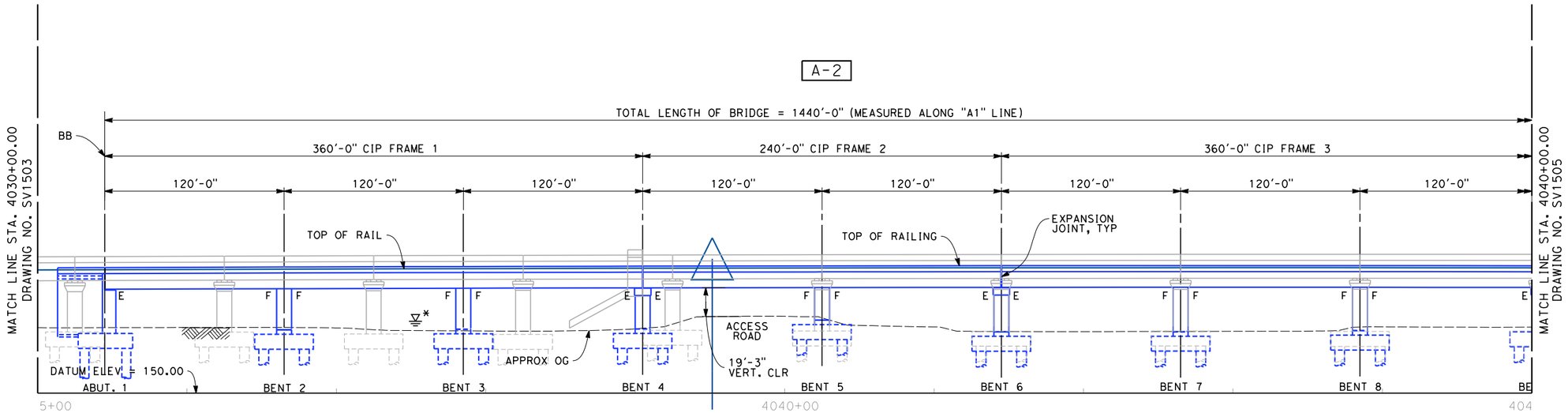


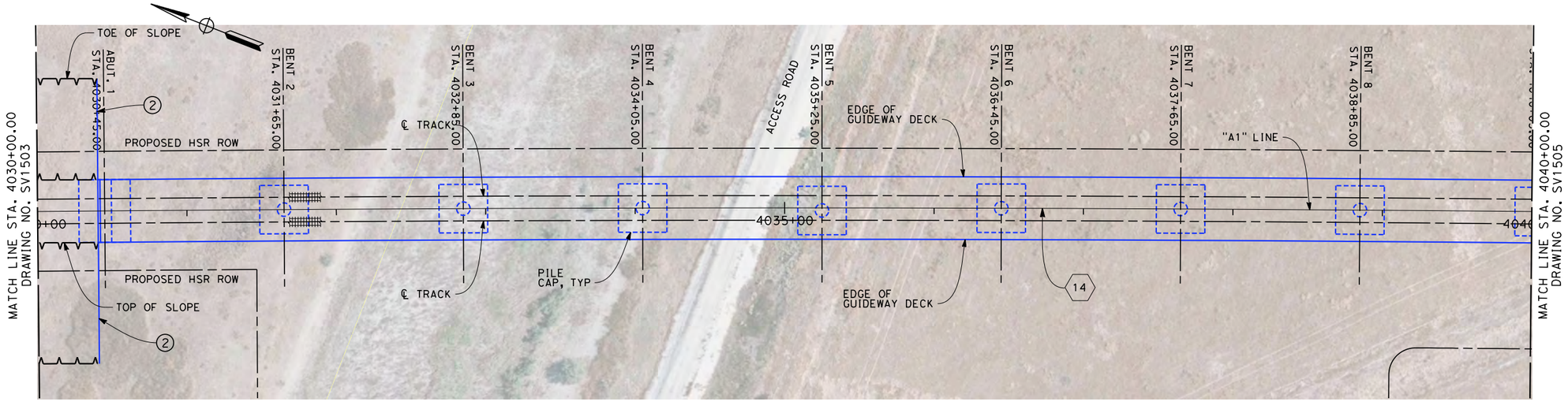
TOP OF RAIL "A1" LINE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

CURVE DATA

(14)

R = 50500.0'
Δ = 24° 16' 19.0"
T = 10859.4'
L = 21393.1'

RFP DESIGN
DFS PROPOSED

40 0 40 80
1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
DEER CREEK VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV1504
SCALE	AS SHOWN
SHEET NO.	5 OF 9

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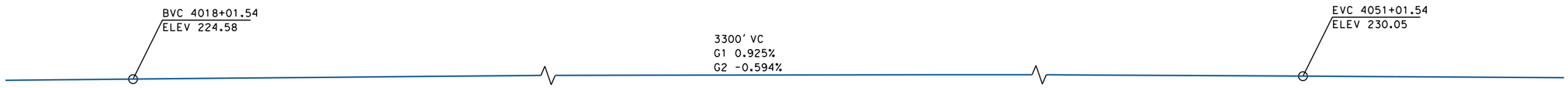
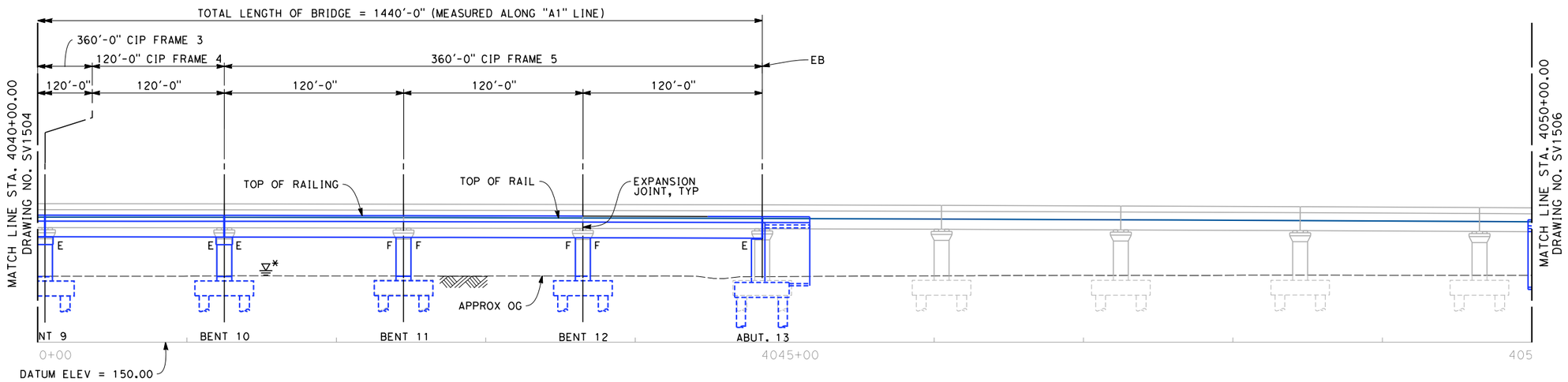


TOP OF RAIL "A1" LINE

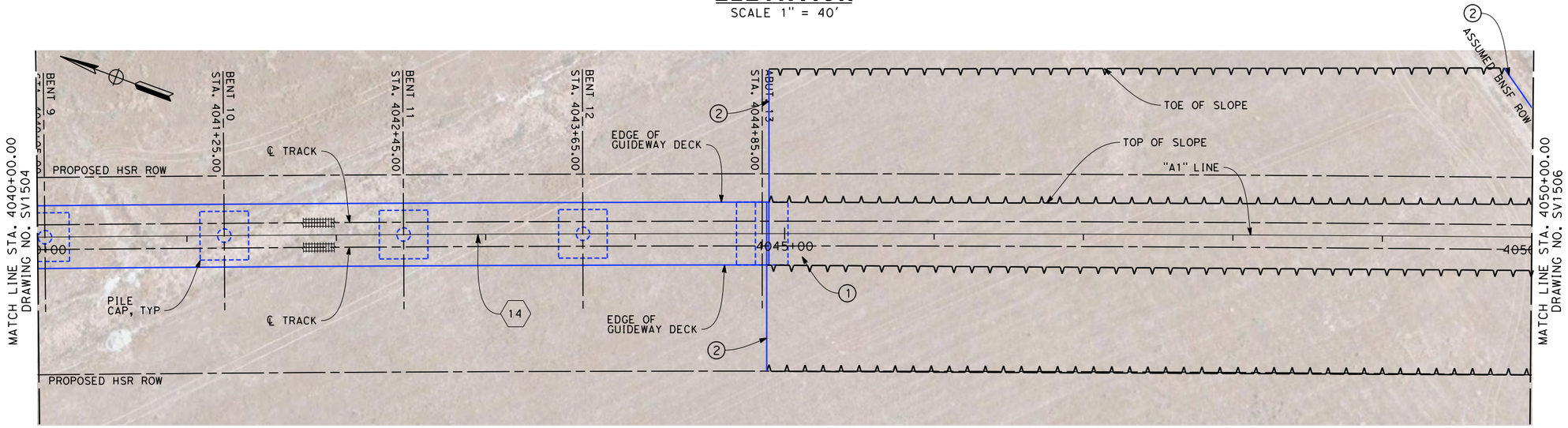
NO SCALE

A-2



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

(1) CEMENT TREATED STRUCTURE BACKFILL

(2) RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

CURVE DATA

(14)

R = 50500.0'
Δ = 24° 16' 19.0"
T = 10859.4'
L = 21393.1'

RFP DESIGN

DFS PROPOSED

DISCLAIMER:
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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
DEER CREEK VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV1505
SCALE	AS SHOWN
SHEET NO.	6 OF 9

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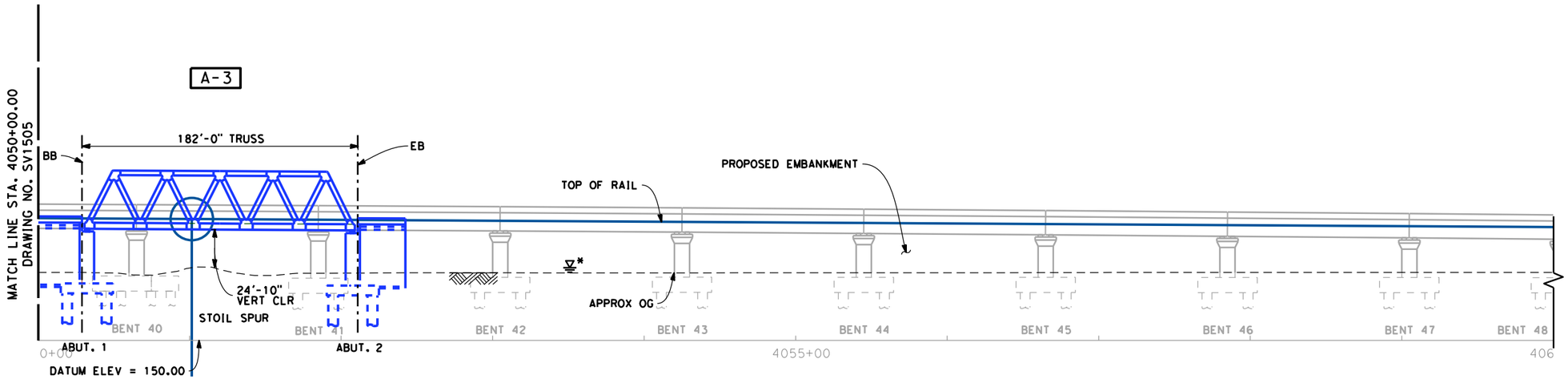
dreeszega

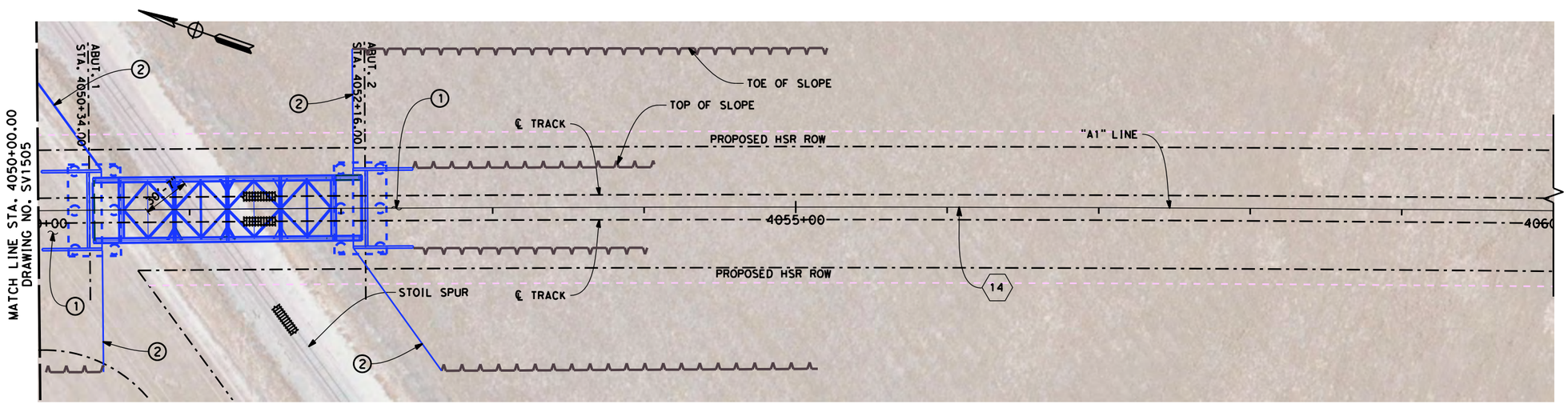
TOP OF RAIL "A1" LINE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UOI
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

LEGEND:

1. CEMENT TREATED STRUCTURE BACKFILL
2. RETAINING WALL

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

POINT OF MINIMUM CLEARANCE

CURVE DATA

14

R = 50500.0'
Δ = 24° 16' 19.0"
T = 10859.4'
L = 21393.1'

RFP DESIGN
DFS PROPOSED

40 0 40 80
1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
DEER CREEK VIADUCT
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV1506
SCALE	AS SHOWN
SHEET NO.	7 OF 9

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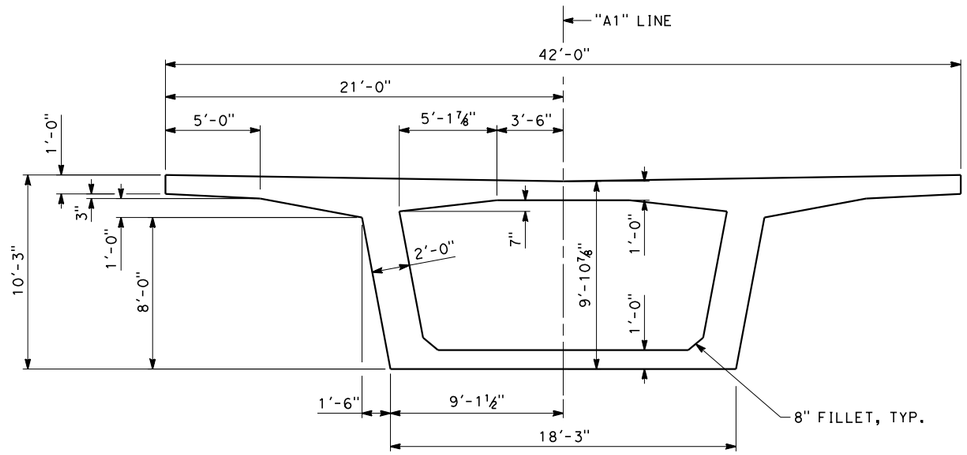
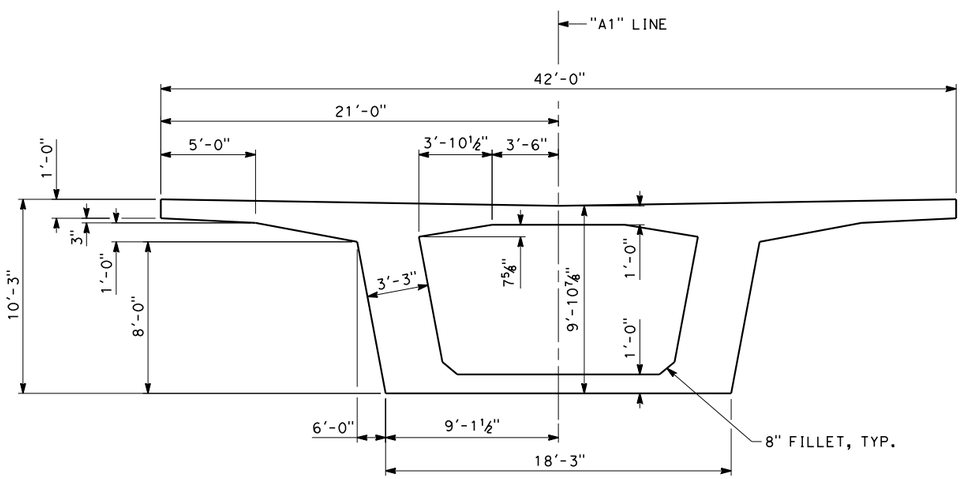
dreeszega



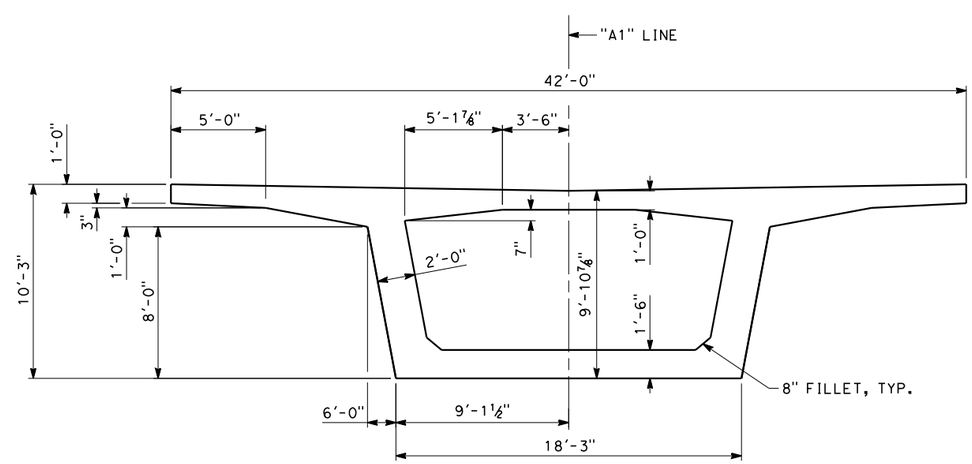
TYPICAL SECTION

DIMENSIONS SYMMETRICAL ABOUT ℄



SECTION AT ABUTMENT

DIMENSIONS SYMMETRICAL ABOUT ℄



SECTION AT PIER

DIMENSIONS SYMMETRICAL ABOUT ℄

A-2 TYPICAL SECTIONS

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SECTION
ALIGNMENT A1
DEER CREEK VIADUCT
TYPICAL SECTIONS

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

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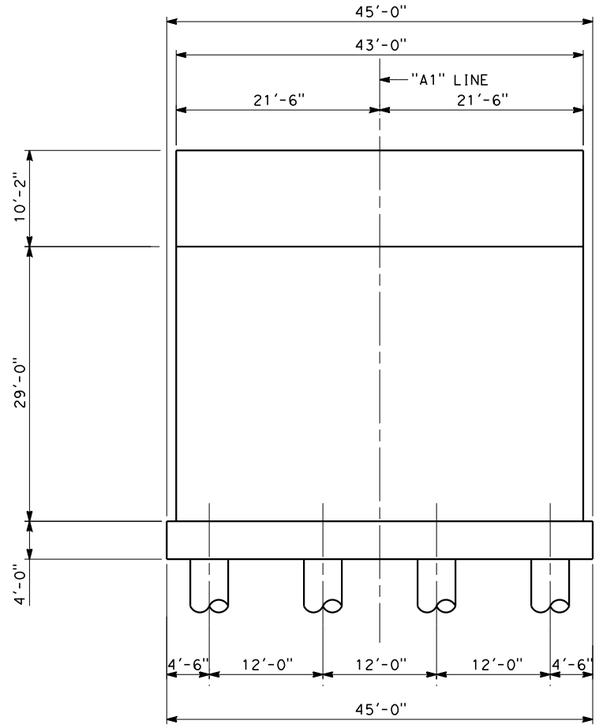
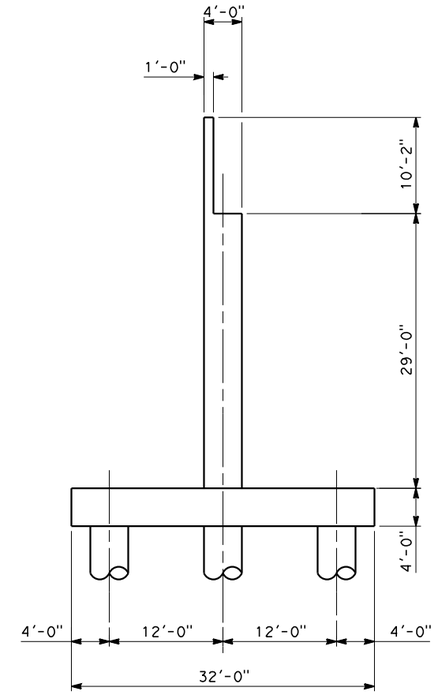


ELEVATION



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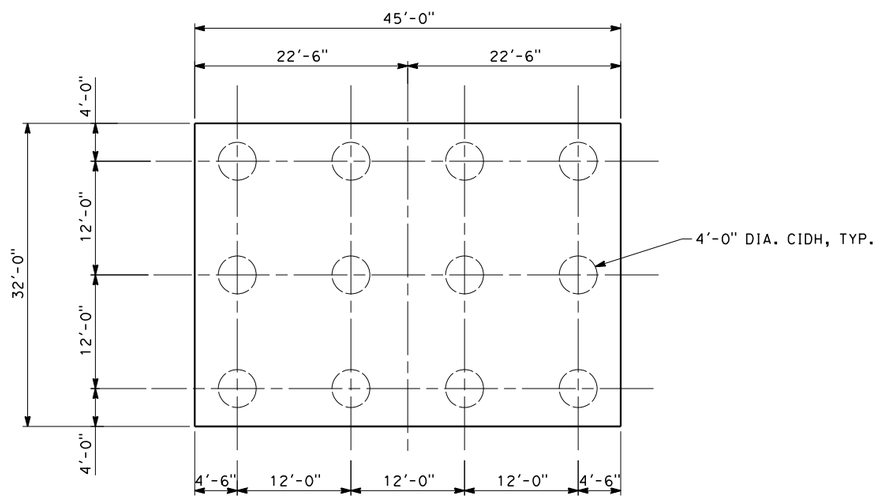

FOOTING PLAN

A-2 ABUTMENT

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DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SECTION
ALIGNMENT A1
DEER CREEK VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX08
SCALE	AS SHOWN
SHEET NO.	

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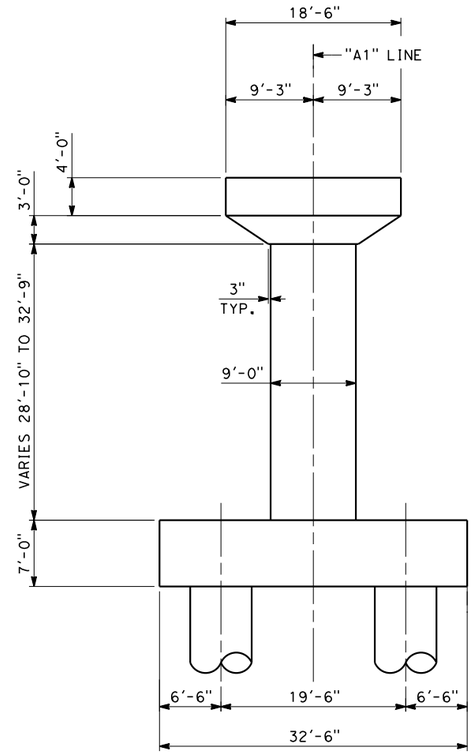
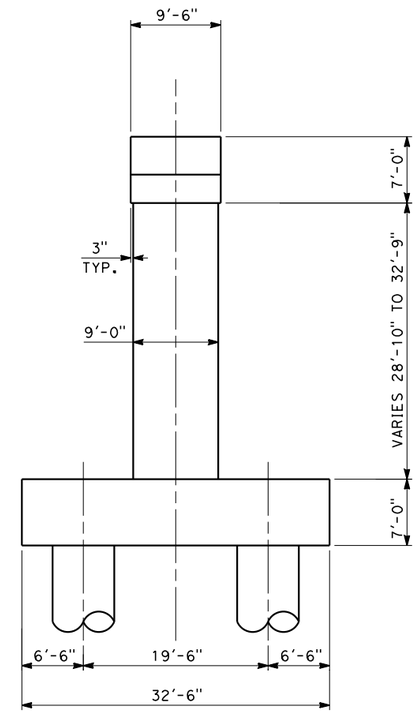
dreeszega



ELEVATION



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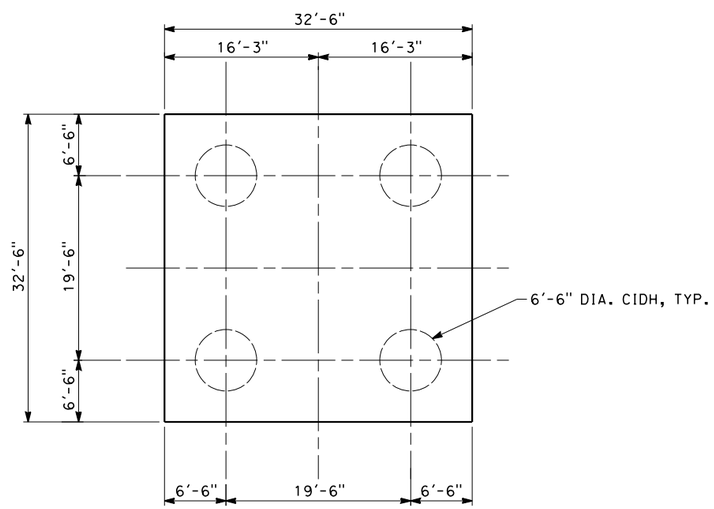

FOOTING PLAN

A-2 BENT

DISCLAIMER:
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DATE	10/09/14

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SECTION
ALIGNMENT A1
DEER CREEK VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX08
SCALE	AS SHOWN
SHEET NO.	

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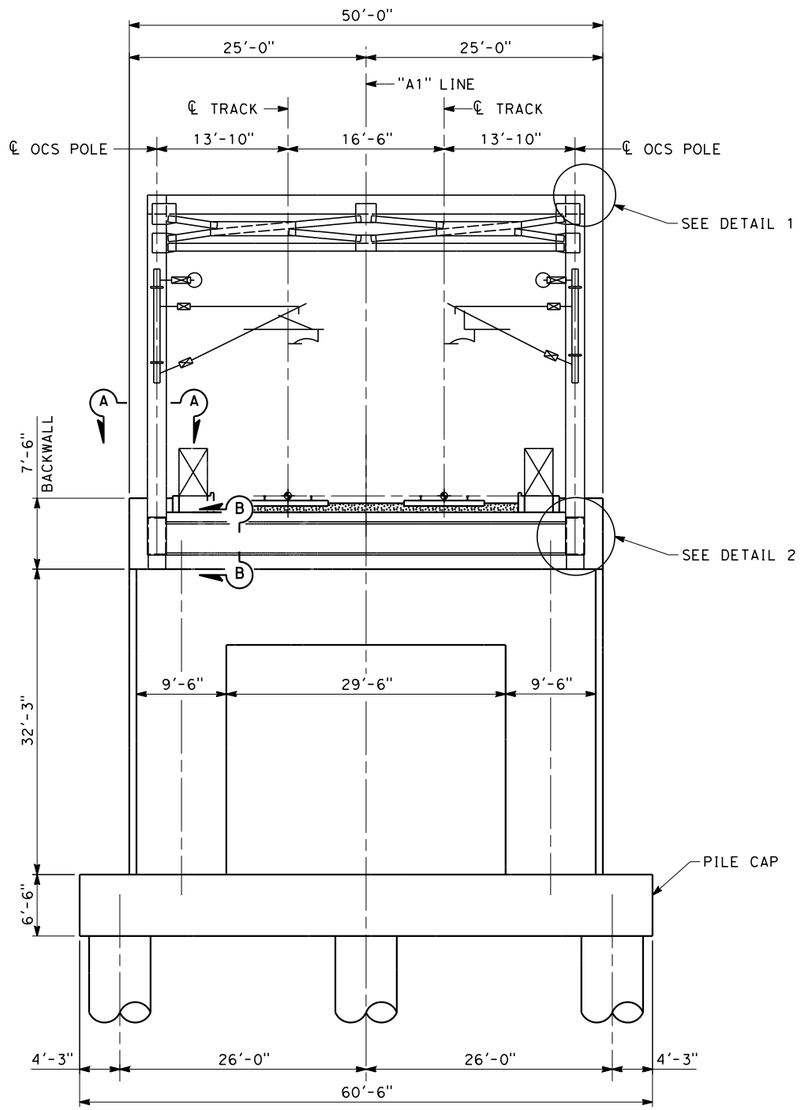
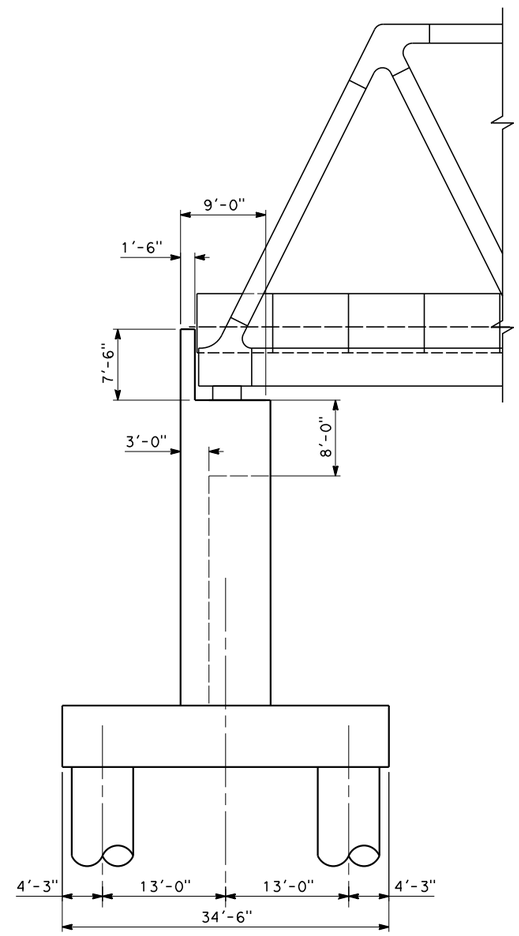
dreeszega



ELEVATION



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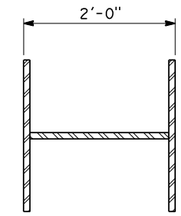
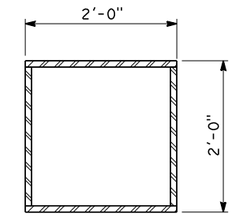
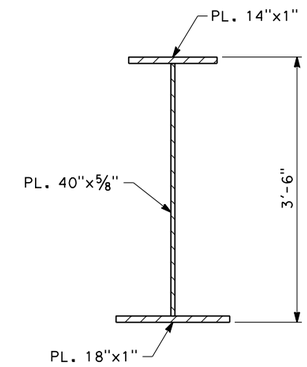


SECTION A



DETAIL 1



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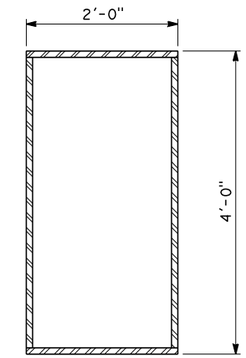

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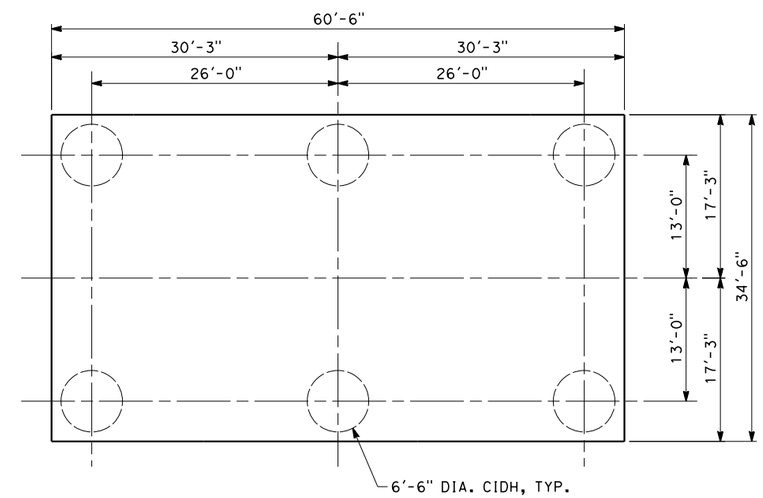

FOOTING PLAN

TRUSS ABUTMENTS AT A-3
SUPPORTING 182' TRUSS

DISCLAIMER:
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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SECTION
ALIGNMENT A1
DEER CREEK VIADUCT
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SVXX01
SCALE	AS SHOWN
SHEET NO.	18 OF 18

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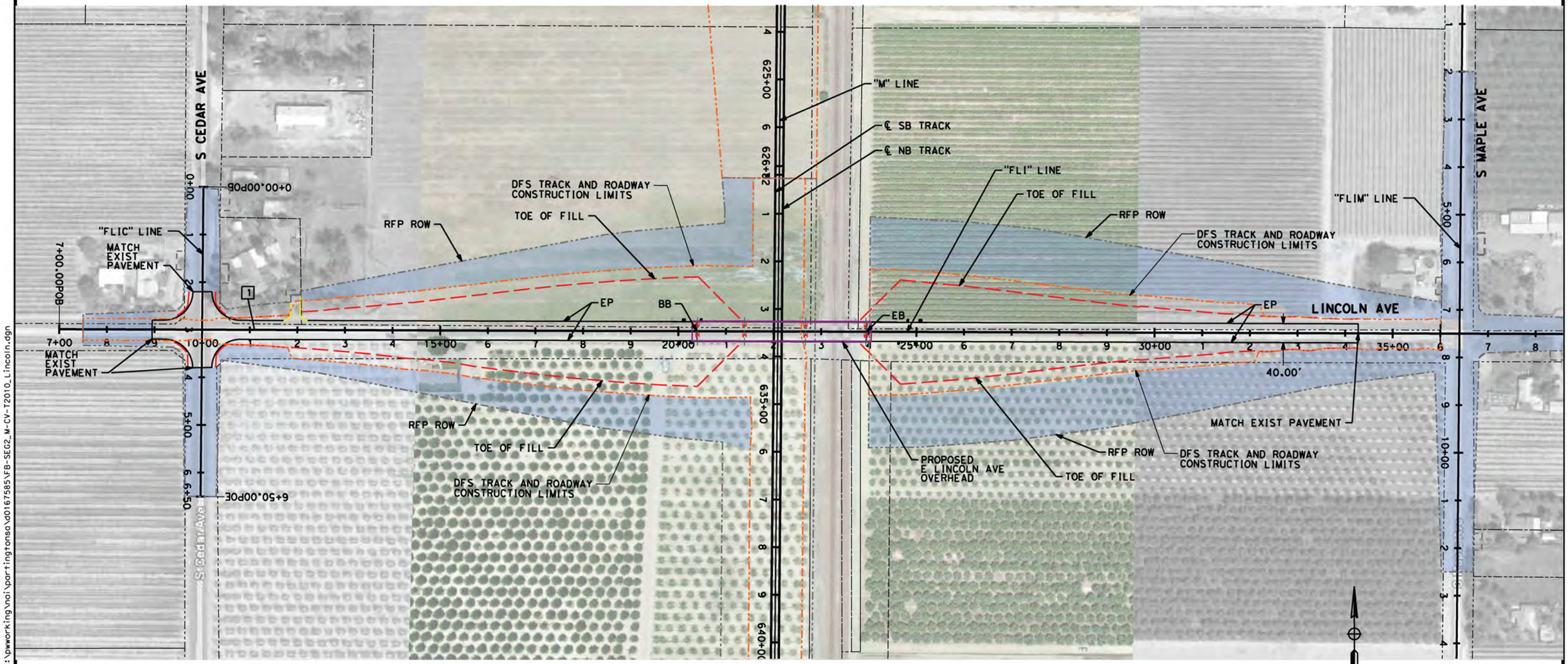

LINE DATA

NO.	BEARING	DISTANCE
1	S89°49'15"E	3200.00'

100 0 100 200
SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E LINCOLN AVENUE

CONTRACT NO. HST 06-0003
DRAWING NO. T2010
SCALE AS SHOWN
SHEET NO. - OF -

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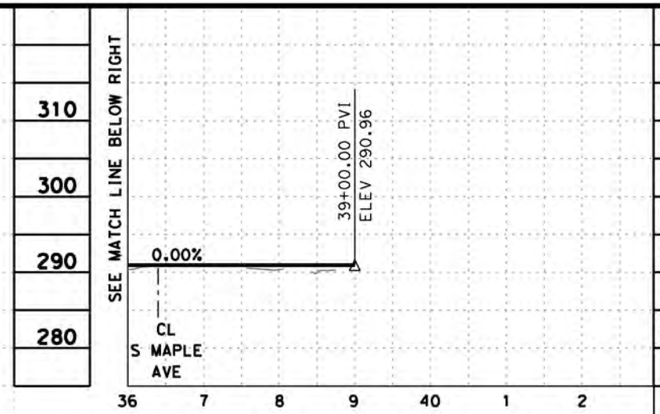

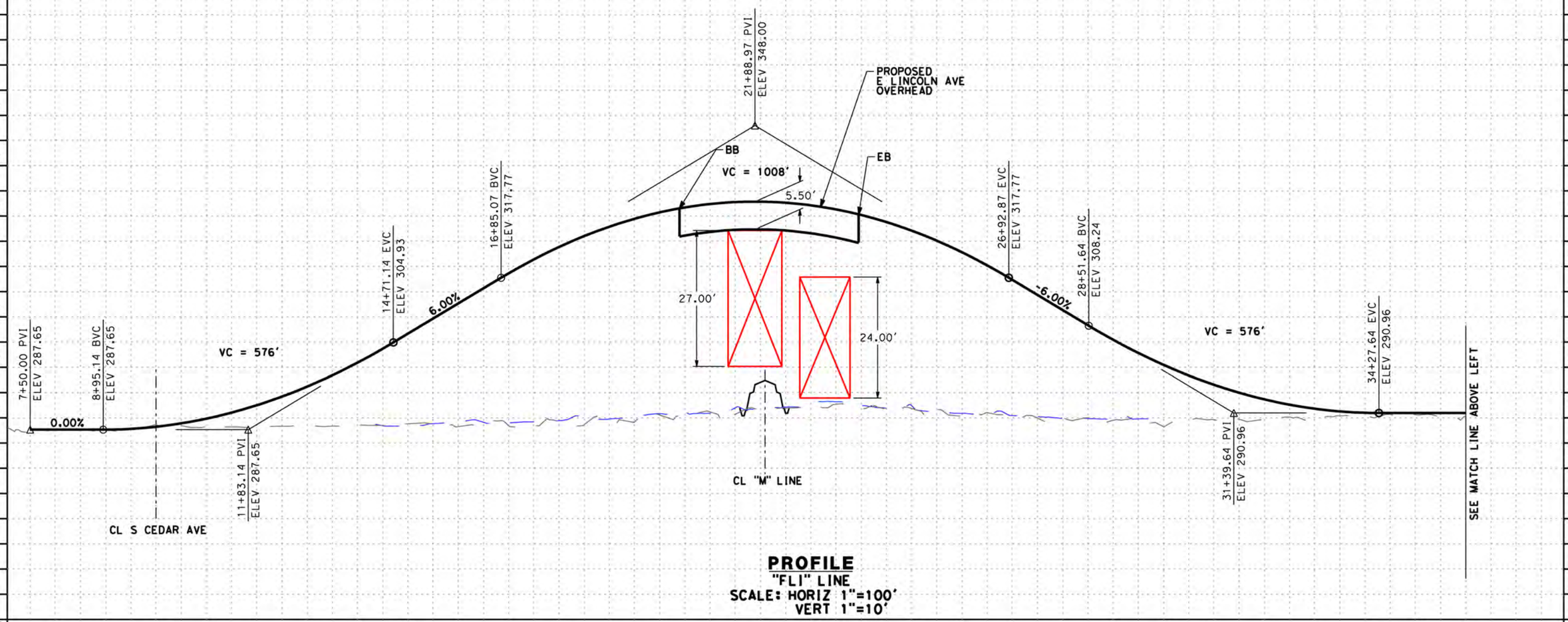

PROFILE
"FLI" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	8	9	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	TOTAL
CY Exc																														
CY Emb																														

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

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-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION PROFILE
E LINCOLN AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T2011
SCALE AS SHOWN
SHEET NO. X OF XX

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LINE DATA

NO.	BEARING	DISTANCE
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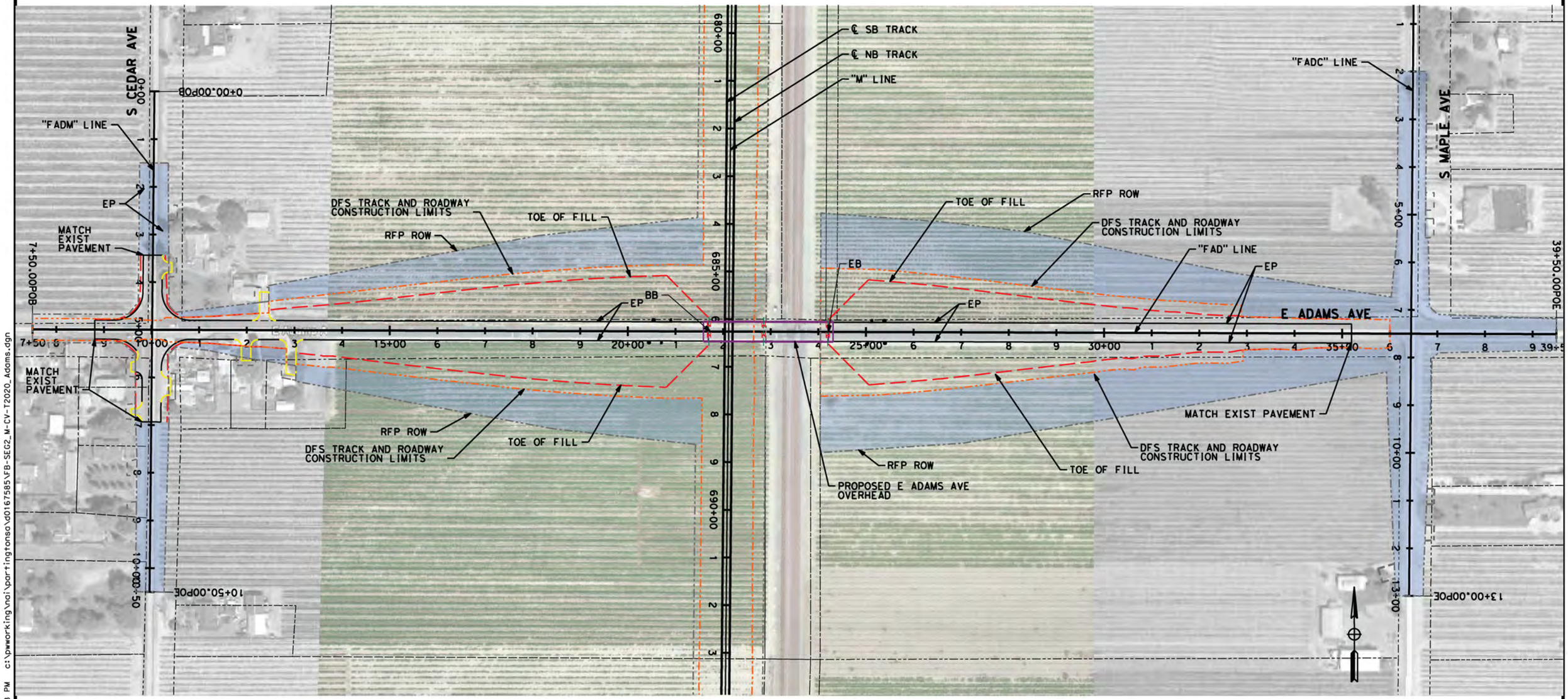

REDUCTION IN CONSTRUCTION LIMITS

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DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E ADAMS AVENUE

CONTRACT NO. HST 06-0003
DRAWING NO. T2020
SCALE AS SHOWN
SHEET NO. - OF -

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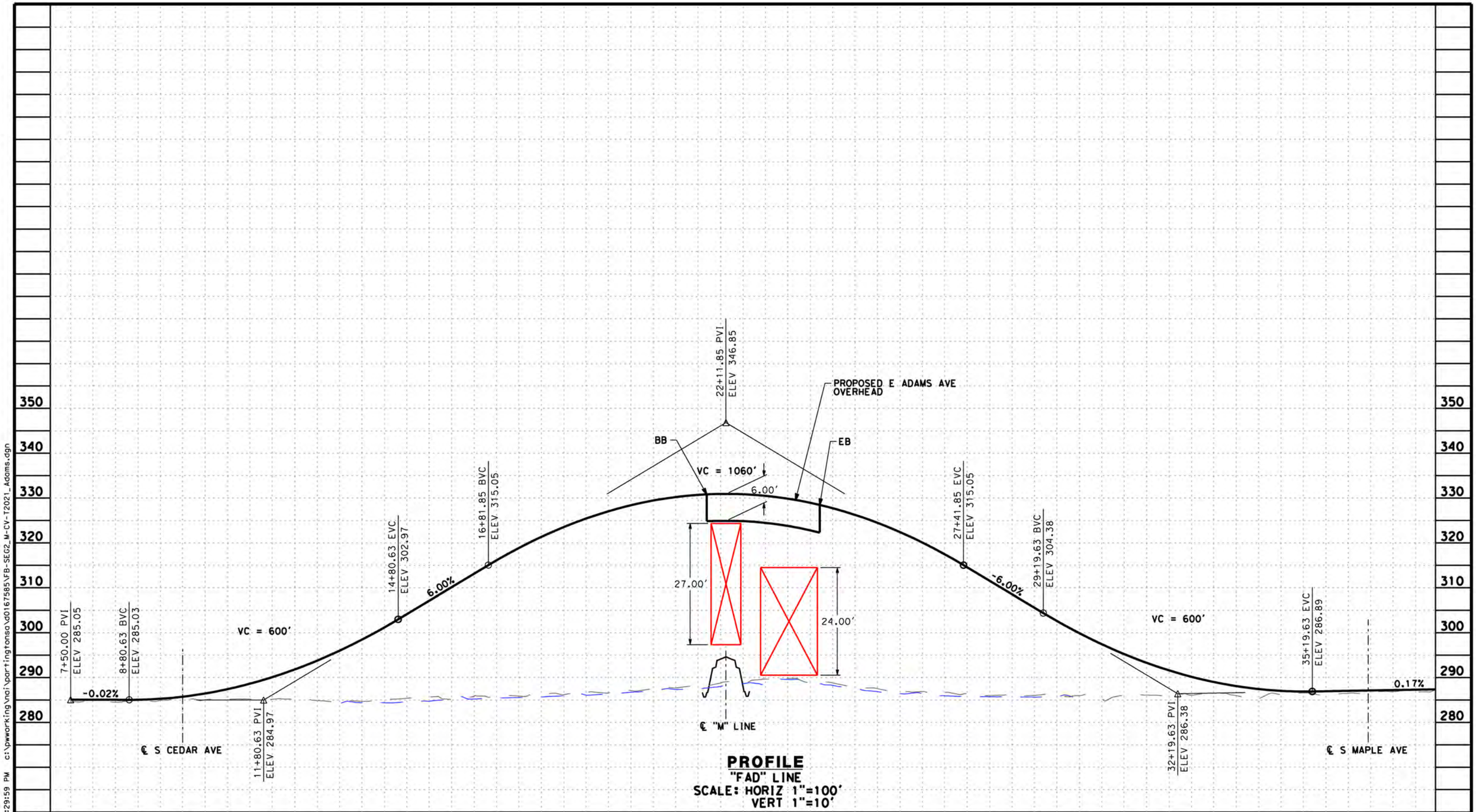

PROFILE
"FAD" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

DISCLAIMER:
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DESIGNED BY	B. KIDD
DRAWN BY	Z. ROOKHUYZEN
CHECKED BY	E. KARAM
IN CHARGE	R. TREVETT
DATE	08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION PROFILE
E ADAMS AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	T2021
SCALE	AS SHOWN
SHEET NO.	X OF XX

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LINE DATA

NO.	BEARING	DISTANCE
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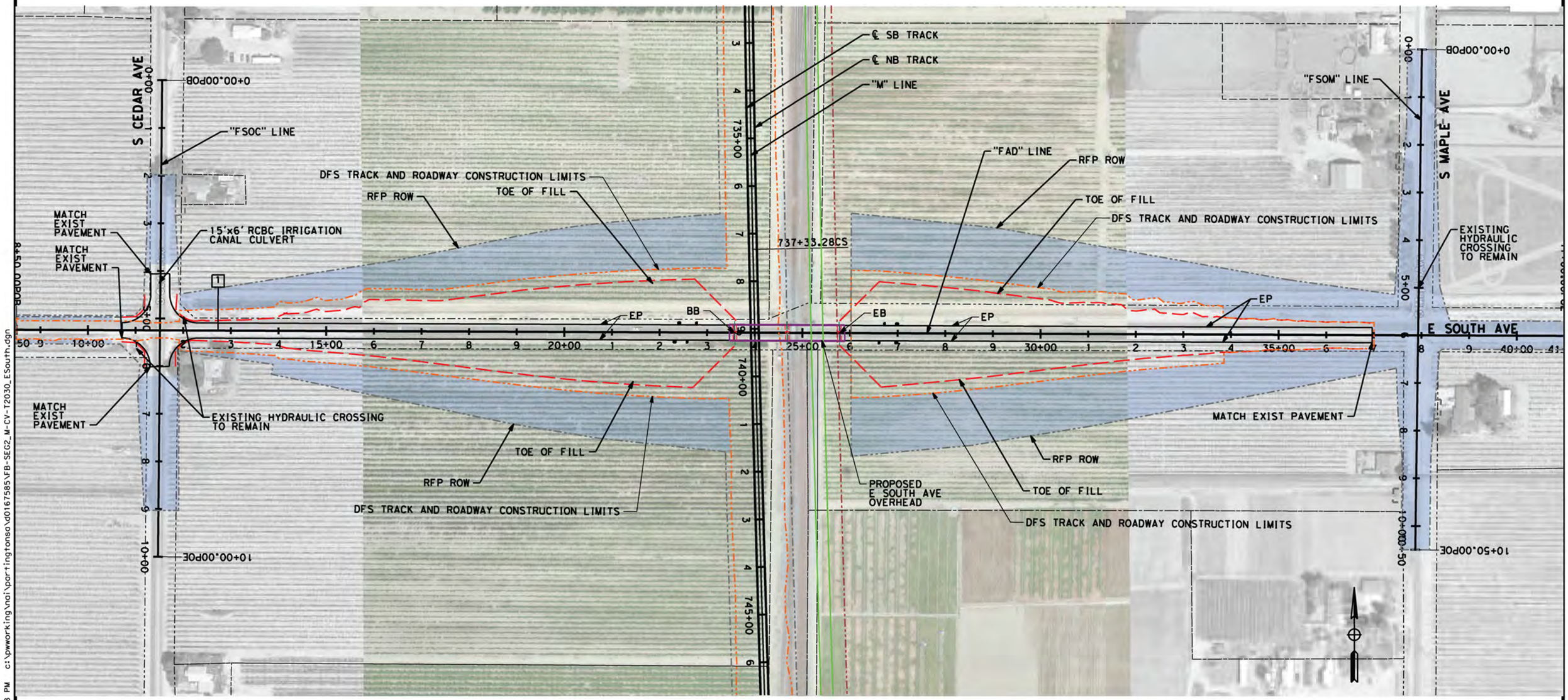

REDUCTION IN CONSTRUCTION LIMITS

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DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E SOUTH AVENUE

CONTRACT NO.	HST 06-0003
DRAWING NO.	T2030
SCALE	AS SHOWN
SHEET NO.	- OF -

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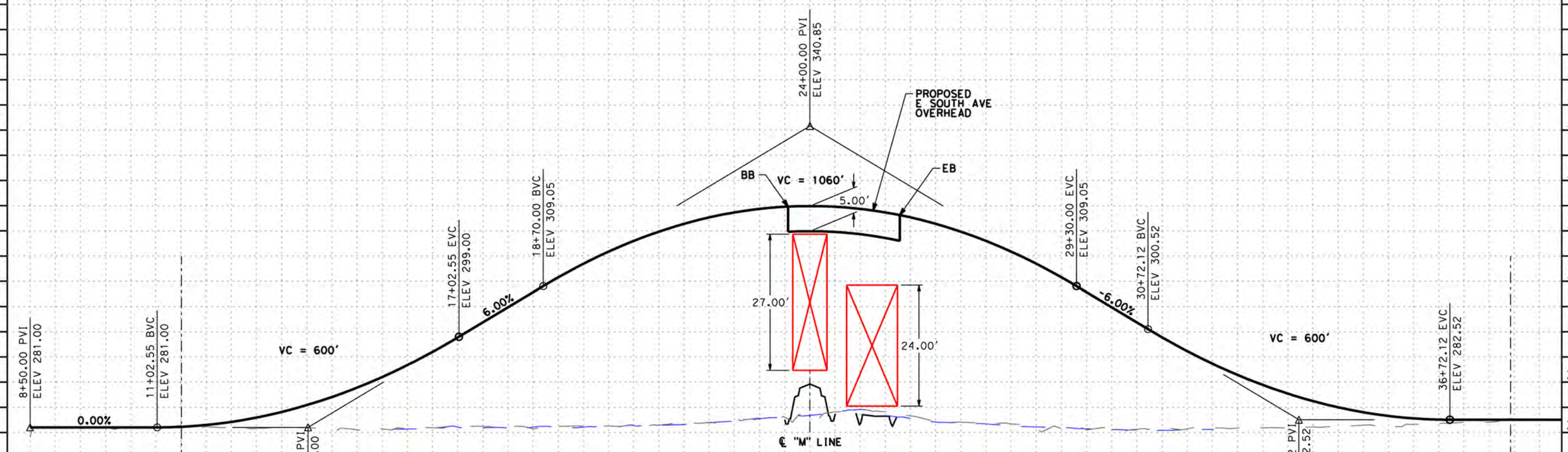

PROFILE
"FSO" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	9	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
CY Exc																														
CY Emb																														

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/29/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION PROFILE
E SOUTH AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T2031
SCALE AS SHOWN
SHEET NO. X OF XX

portingtonsa 10/13/2014 8:31:01 PM c:\pwworking\nai\portingtonsa\d0167585\FB-SEG2_M-CV-T2031_ESouth.dgn

LINE DATA

NO.	BEARING	DISTANCE
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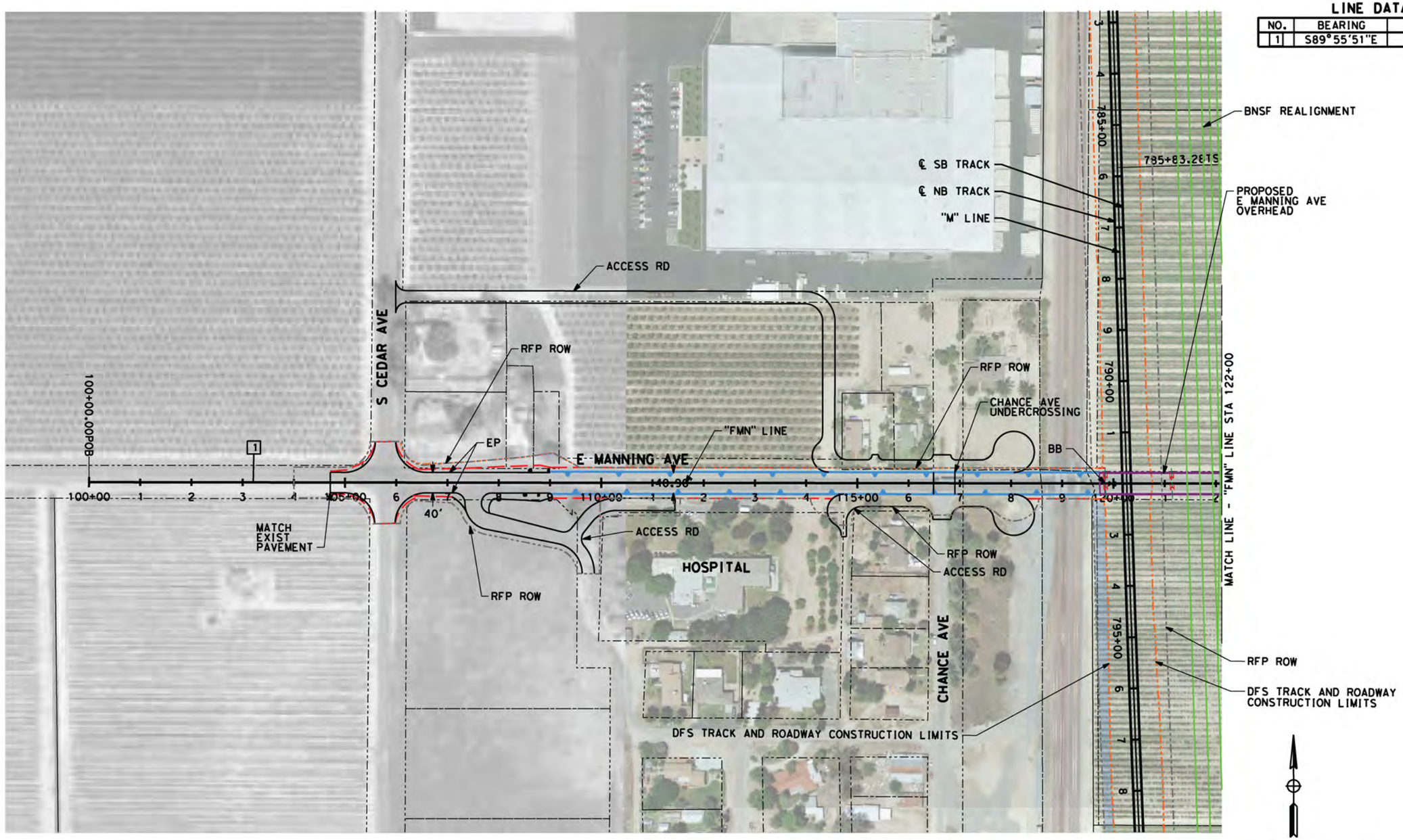

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E MANNING AVENUE

CONTRACT NO. HST 06-0003
DRAWING NO. T2040
SCALE AS SHOWN
SHEET NO. X OF X

partingtonsa 10/13/2014 8:31:16 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG2_M-CV-T2040_Manning.dgn

LINE DATA

NO.	BEARING	DISTANCE
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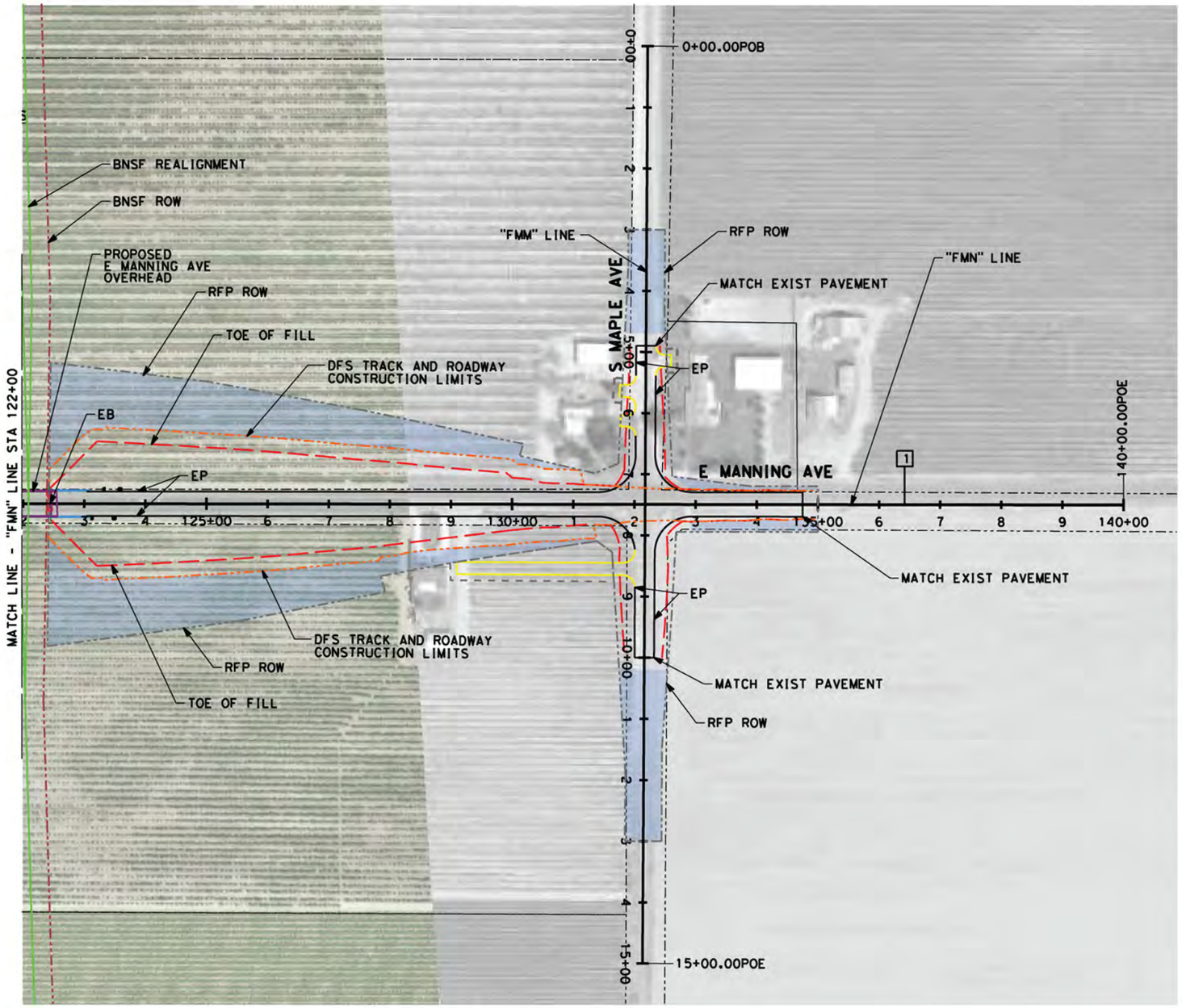

100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E MANNING AVENUE

CONTRACT NO. HST 06-0003
DRAWING NO. T2041
SCALE AS SHOWN
SHEET NO. X OF X

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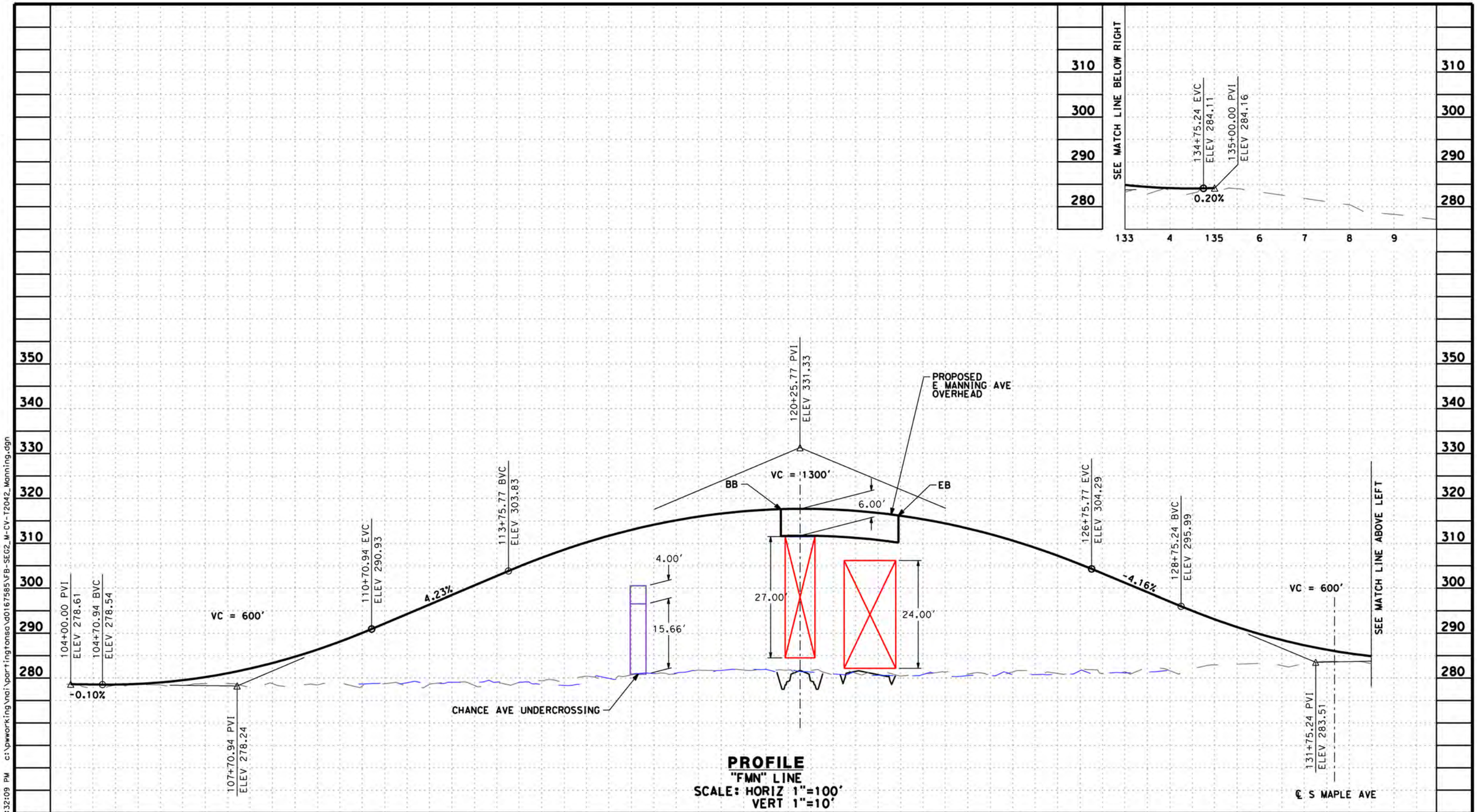


PROFILE
"FMN" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

DISCLAIMER:
THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE HSR AND ROADWAY DESIGN ENHANCEMENTS. DRAINAGE, UTILITIES, AND IRRIGATION CANALS ARE NOT SHOWN. THE HSR PROFILE IS BASED ON DRAINAGE AND WILDLIFE CROSSINGS IN THE RFP DESIGN AND THE DFS PROPOSED ATC DESIGNS AS SUBMITTED AND ACCEPTED BY THE AUTHORITY. THIS DOCUMENT AND ASSOCIATED ENGINEERING DETAILS REFLECT PRELIMINARY SCHEMATIC-LEVEL DESIGN ONLY. THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION.

DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

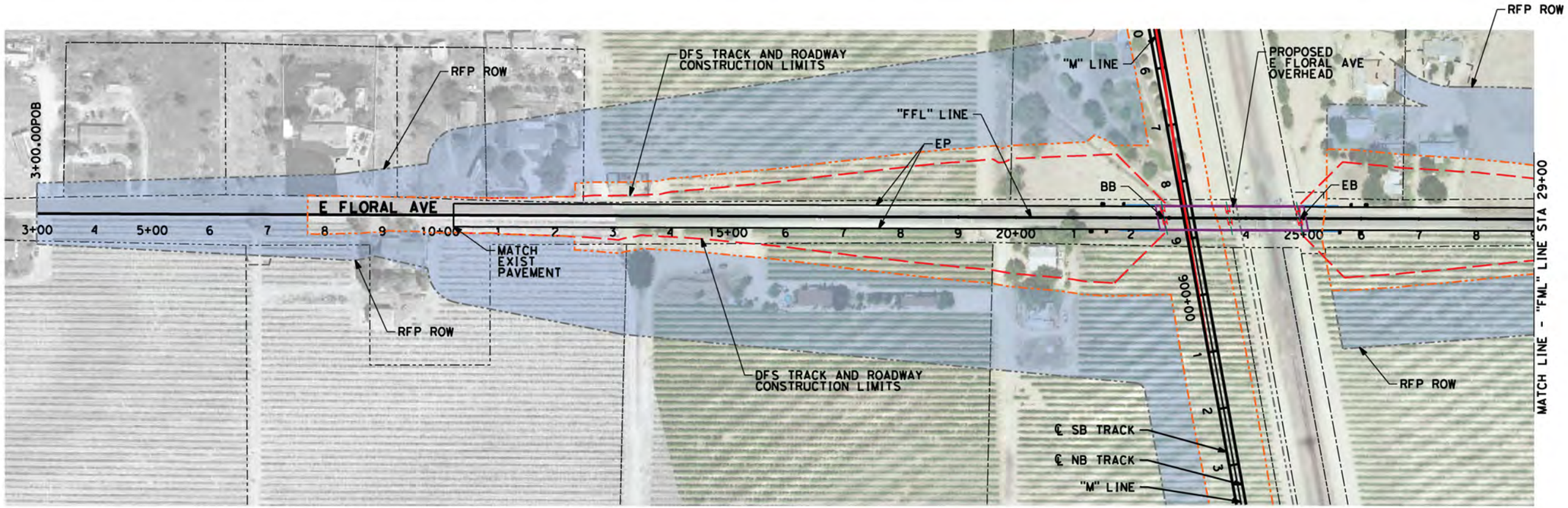
DFS

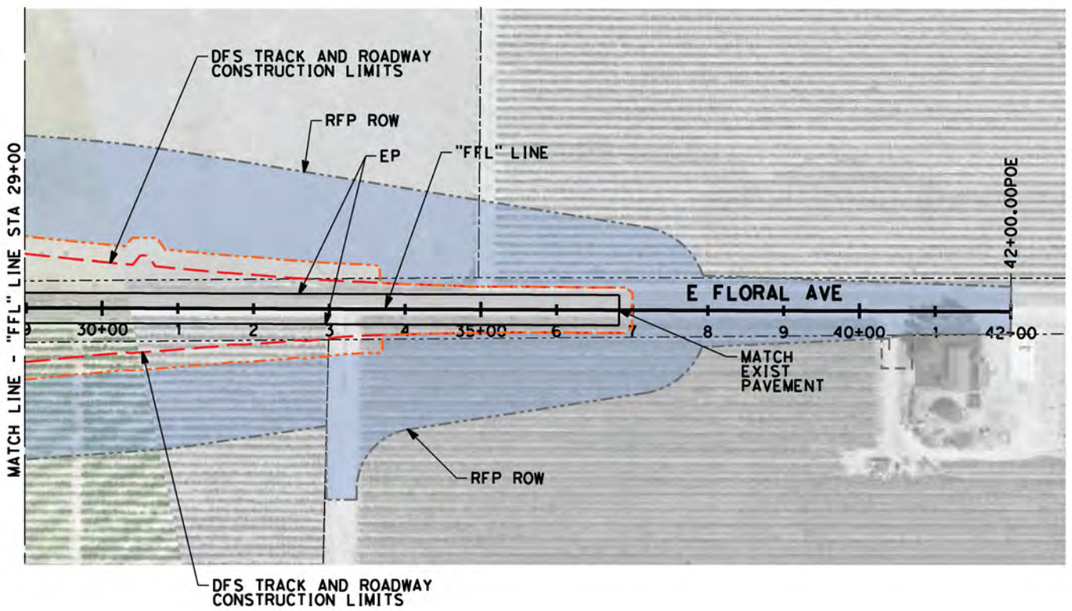
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

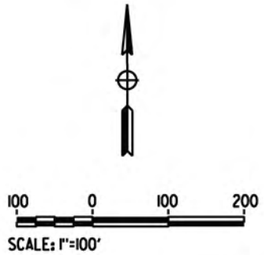
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION PROFILE
E MANNING AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T2042
SCALE AS SHOWN
SHEET NO. X OF XX

partingtonsa 10/13/2014 8:32:09 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG2_M-CV-T2042_Manning.dgn







LINE DATA

NO.	BEARING	DISTANCE
1	S89°55'51"E	4000.00'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE HSR AND ROADWAY DESIGN ENHANCEMENTS. DRAINAGE, UTILITIES, AND IRRIGATION CANALS ARE NOT SHOWN. THE HSR PROFILE IS BASED ON DRAINAGE AND WILDLIFE CROSSINGS IN THE RFP DESIGN AND THE DFS PROPOSED ATC DESIGNS AS SUBMITTED AND ACCEPTED BY THE AUTHORITY. THIS DOCUMENT AND ASSOCIATED ENGINEERING DETAILS REFLECT PRELIMINARY SCHEMATIC-LEVEL DESIGN ONLY. THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION.

DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

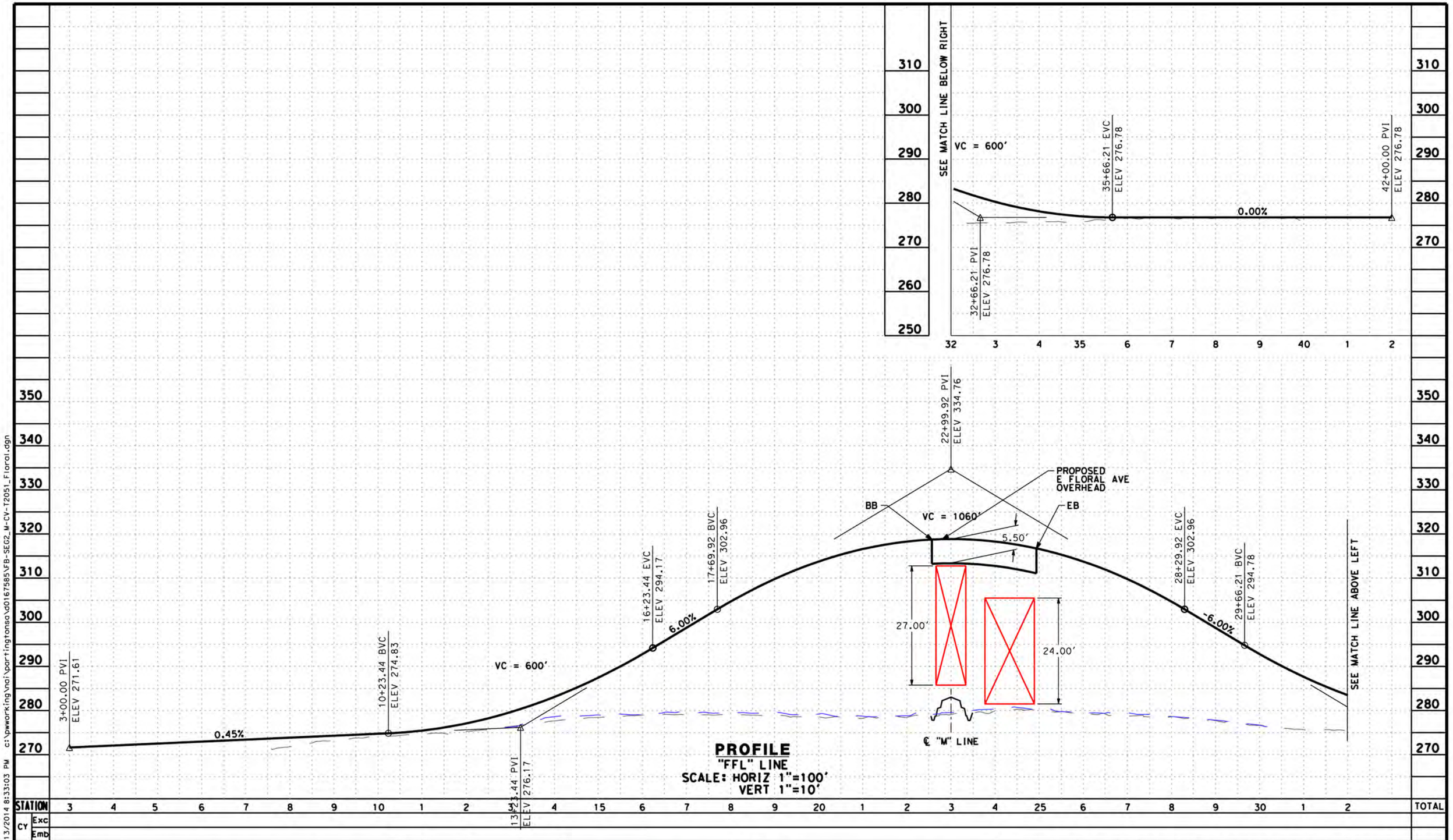
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E FLORAL AVENUE

CONTRACT NO. HST 06-0003
DRAWING NO. T2050
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:32:27 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG2_M-CV-T2050_Floral.dgn



DISCLAIMER:
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DESIGNED BY	B. KIDD
DRAWN BY	Z. ROOKHUYZEN
CHECKED BY	E. KARAM
IN CHARGE	R. TREVETT
DATE	08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

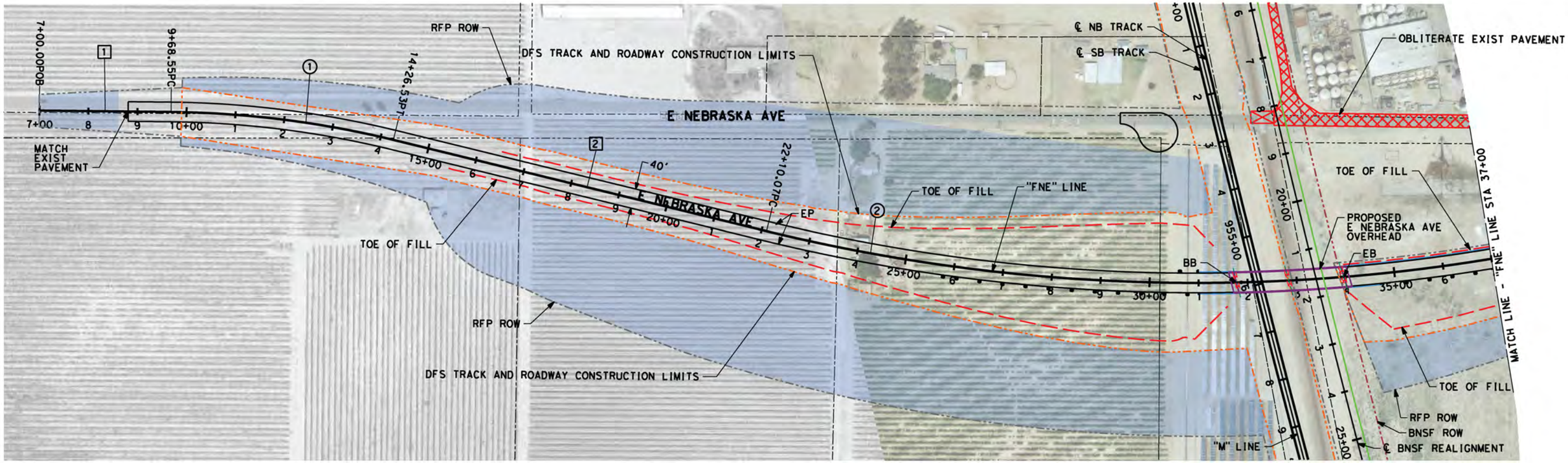
DFS

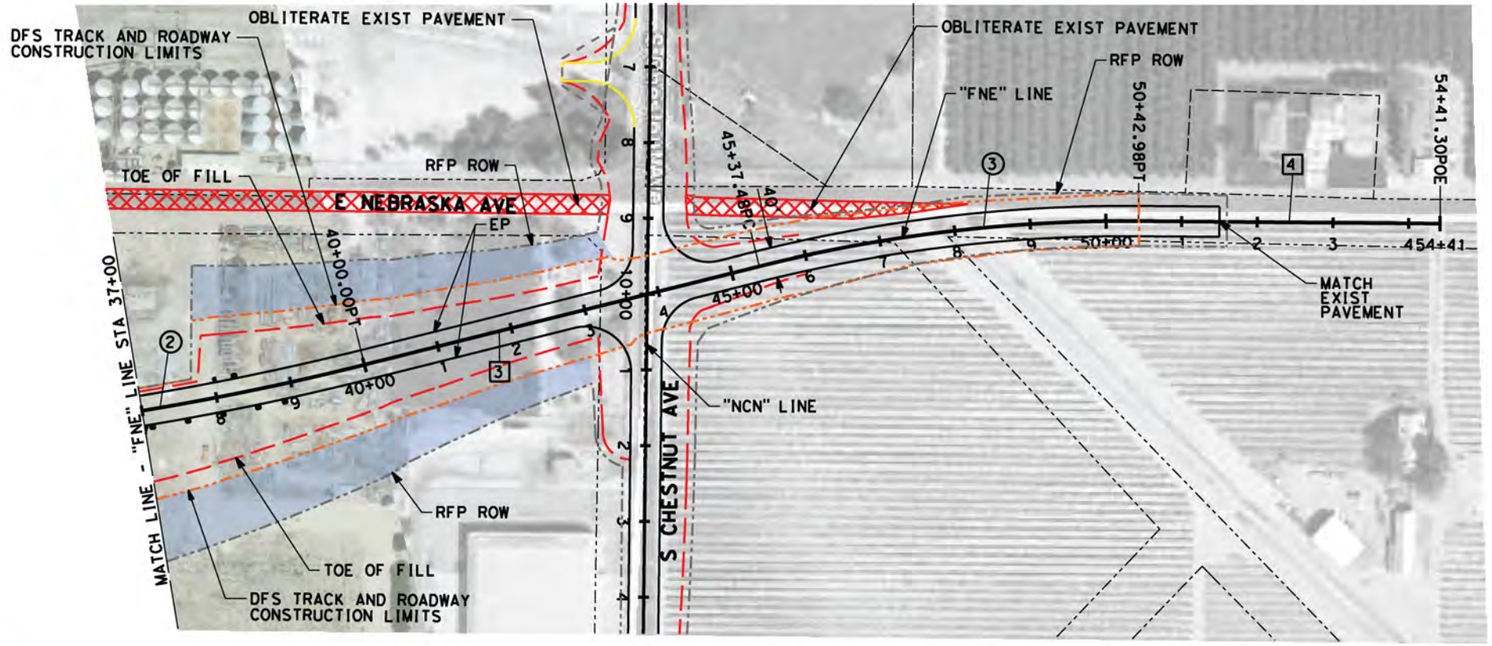
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION PROFILE
E FLORAL AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	T2051
SCALE	AS SHOWN
SHEET NO.	X OF XX

partingtonsa 10/13/2014 8:33:03 PM c:\pwworking\nai\partingtonsa\d0167585\VFB-SEG2_M-CV-T2051_Floral.dgn





LINE DATA

NO.	BEARING	DISTANCE
1	S89°24'09"E	268.55'
2	S76°16'57"E	783.55'
3	N76°00'00"E	537.48'
4	S89°31'07"E	398.32'

CURVE DATA

NO.	R	Δ	T	L
1	2000.00'	13°07'12"	229.99'	457.98'
2	3700.00'	27°43'03"	912.84'	1789.93'
3	2000.00'	14°28'53"	254.10'	505.50'

100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

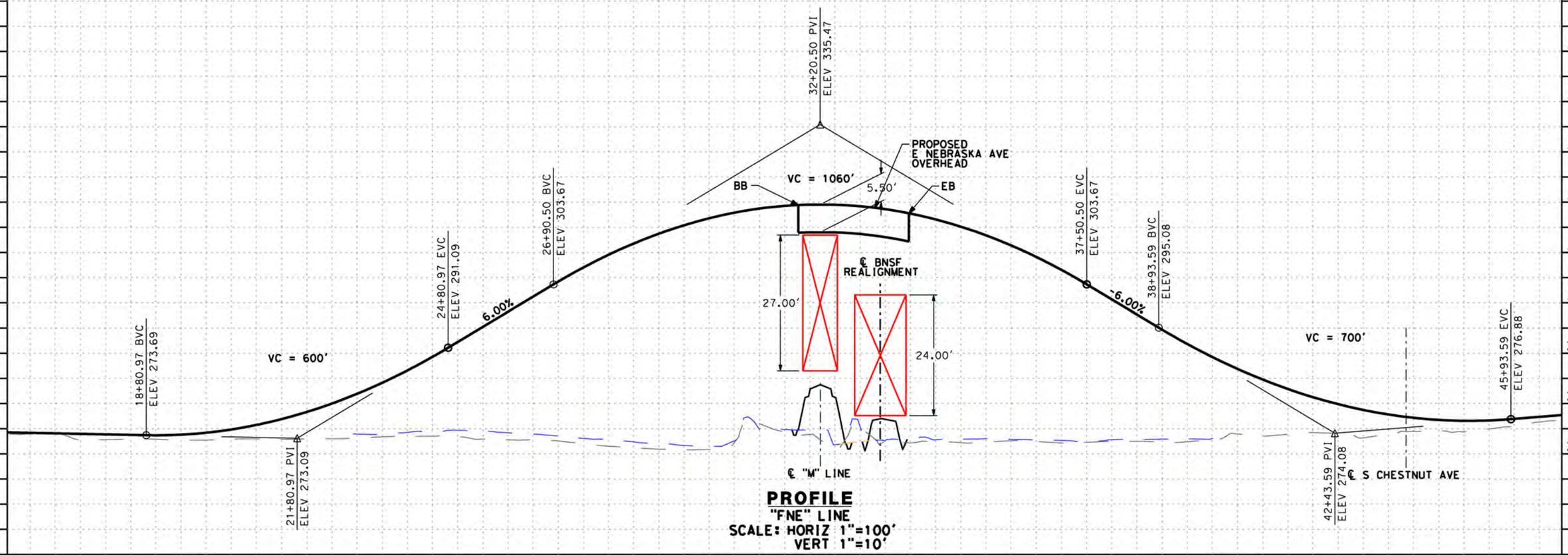
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E NEBRASKA AVENUE

CONTRACT NO. HST 06-0003
DRAWING NO.
SCALE AS SHOWN
SHEET NO.

partingtonsa 10/13/2014 8:33:21 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG2_M-CV-T2060_Nebraska.dgn



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

STATION	7	8	9	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	TOTAL
CY Exc																															
CY Emb																															

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION PROFILE
E NEBRASKA AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T2061
SCALE AS SHOWN
SHEET NO. X OF XX

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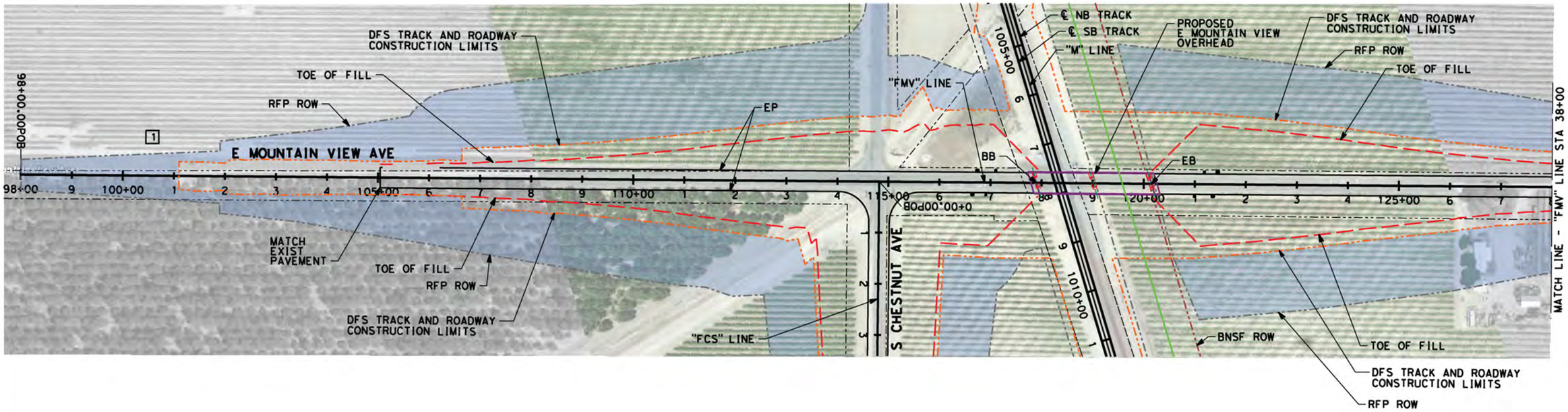

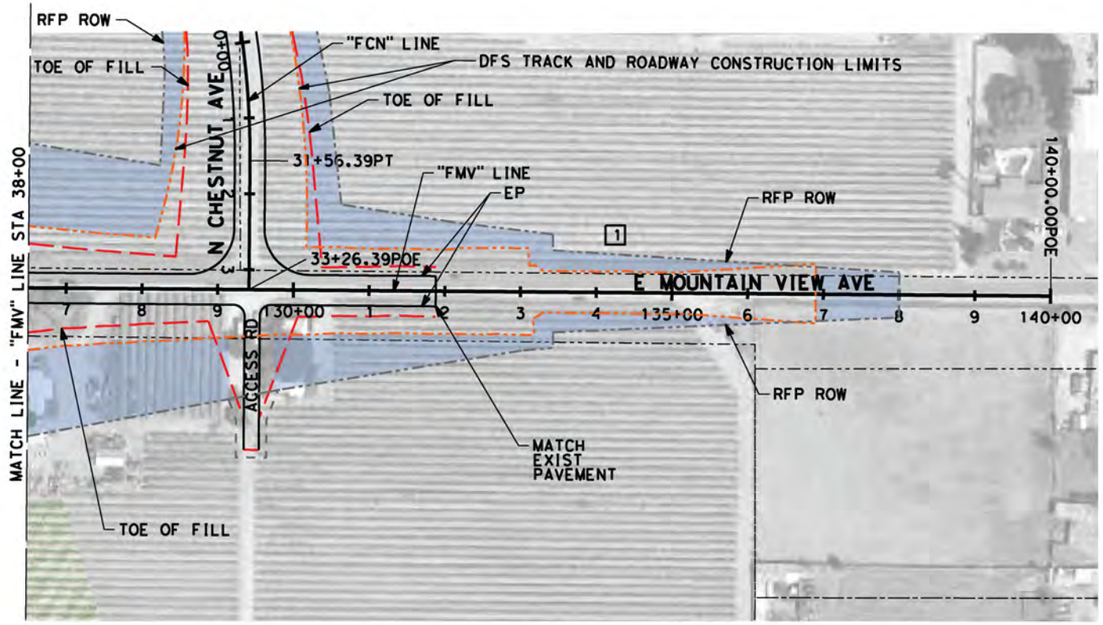

LINE DATA

NO.	BEARING	DISTANCE
1	S89°32'05"E	4200.00'

100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

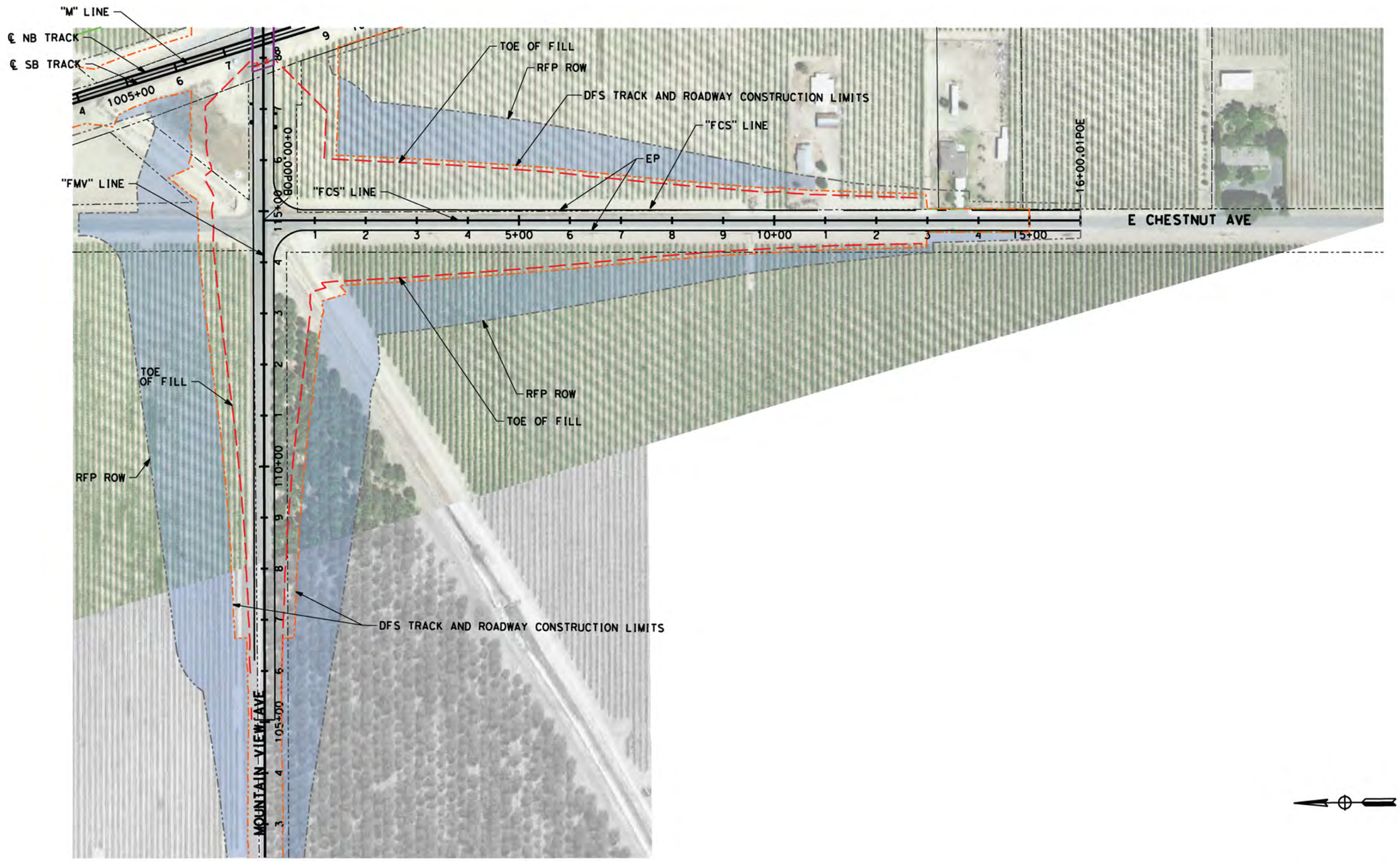
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E MOUNTAIN VIEW AVENUE

CONTRACT NO. HST 06-0003
DRAWING NO. T2070
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:34:10 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG2_M-CV-T2070_Mountain-View.dgn



100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY	B. Kidd
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

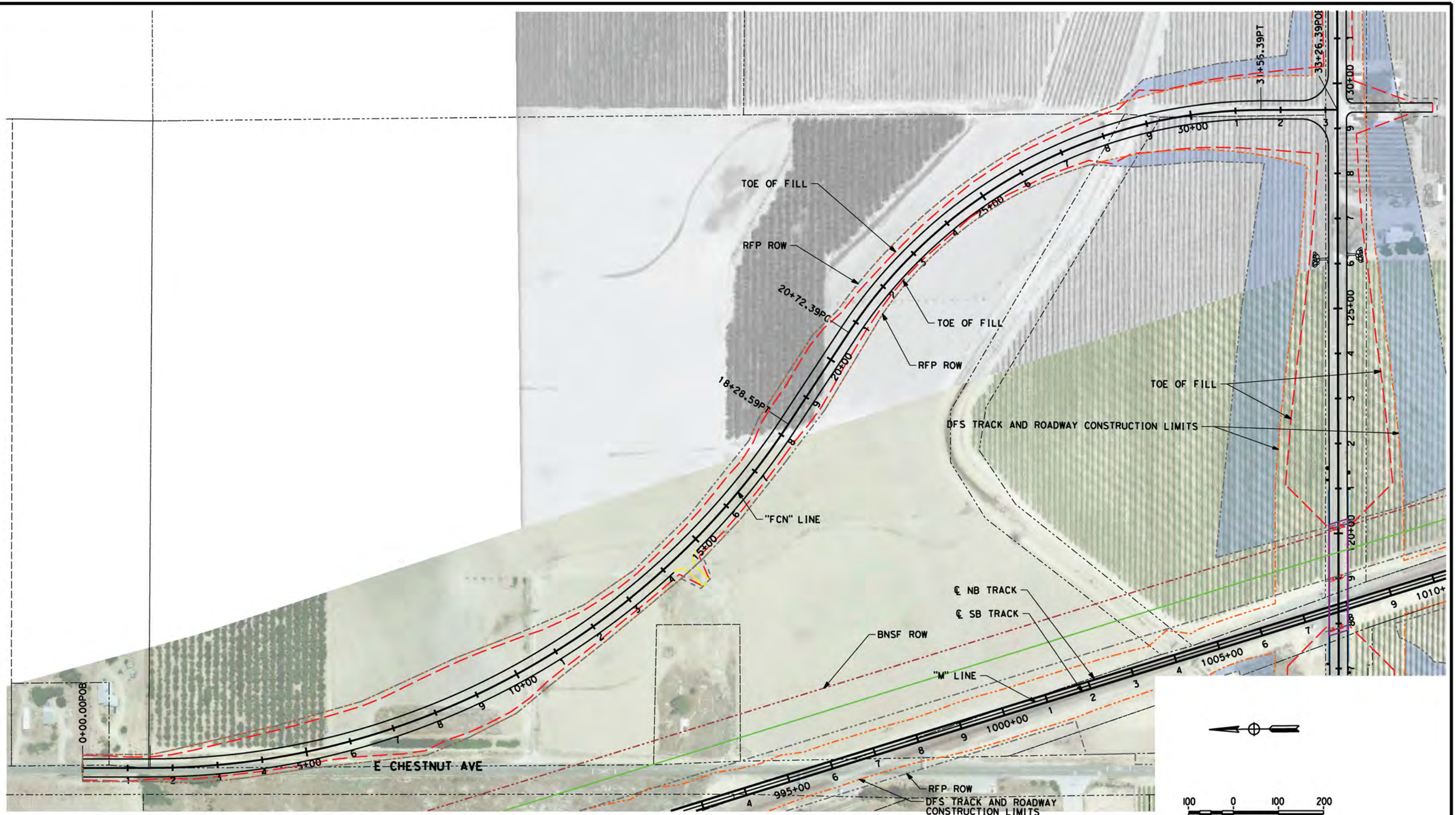
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E CHESTNUT AVENUE (SOUTH)

CONTRACT NO.	HST 06-0003
DRAWING NO.	T2071
SCALE	AS SHOWN
SHEET NO.	- OF -

partingtonsa 10/13/2014 8:35:03 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG2_M-CV-T2071_Chestnut.dgn



REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY	B. Kidd
DRAWN BY	S. Partington
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	06/30/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

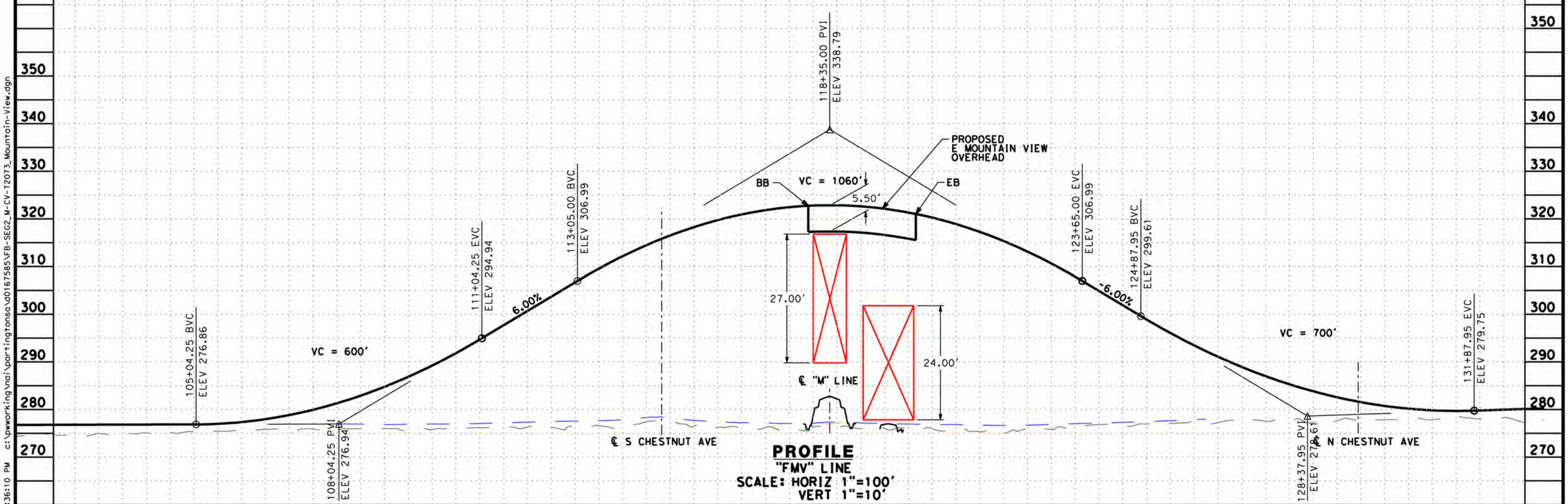
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION LAYOUT
E CHESTNUT AVENUE (SOUTH)

CONTRACT NO.	HST 06-0003
DRAWING NO.	T2072
SCALE	AS SHOWN
SHEET NO.	- OF -

partingtonsa 10/13/2014 8:35:26 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG2_M-CV-T2072_Chestnut.dgn



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

DISCLAIMER:
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DESIGNED BY	B. KIDD
DRAWN BY	Z. ROOKHUYZEN
CHECKED BY	E. KARAM
IN CHARGE	R. TREVETT
DATE	7/2/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

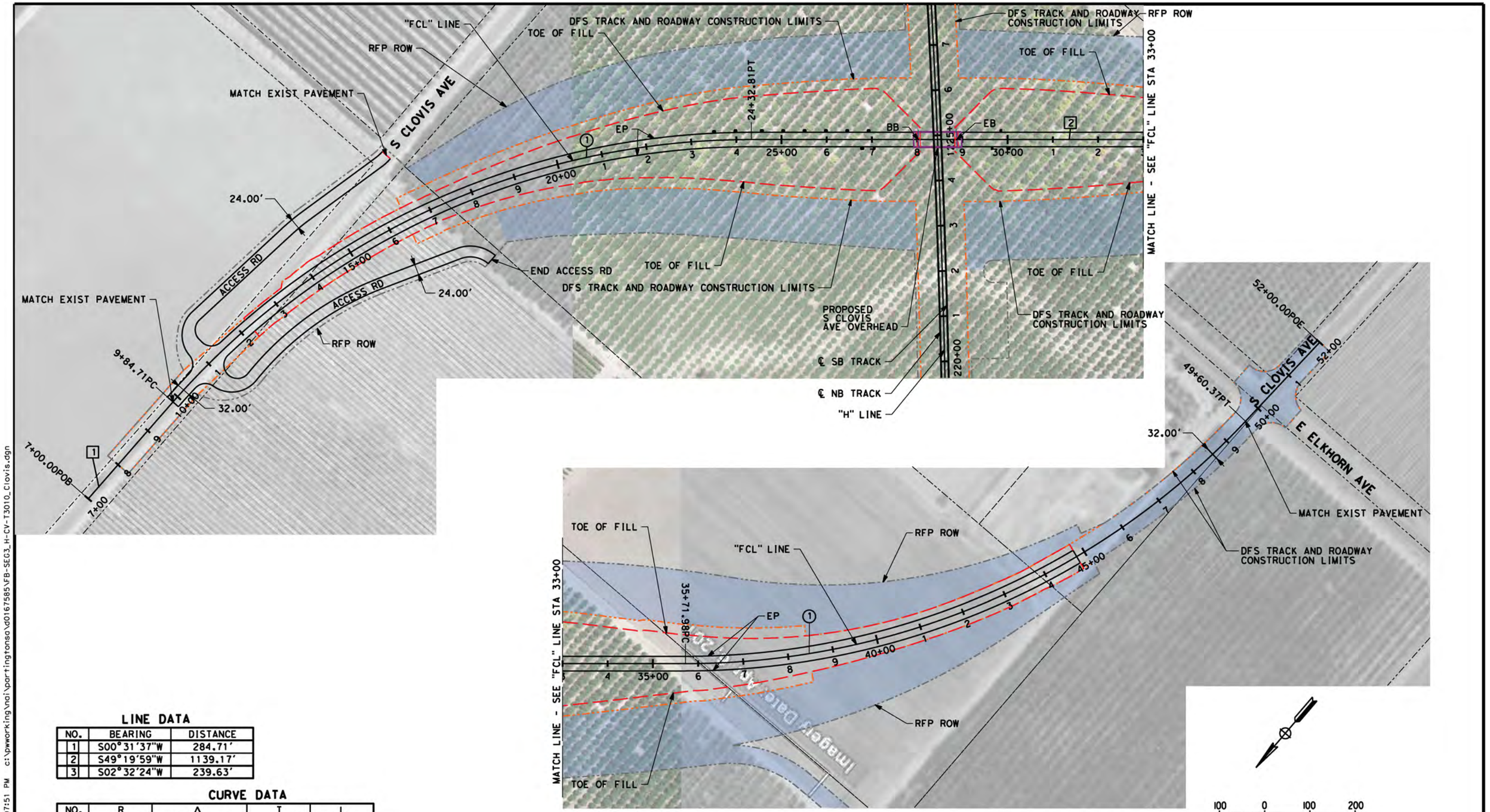
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
GRADE SEPARATION PROFILE
E MOUNTAIN VIEW AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	T2073
SCALE	AS SHOWN
SHEET NO.	X OF XX

partingtonsa 10/13/2014 8:36:10 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG2_M-CV-T2073_Mountain-View.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S00°31'37"W	284.71'
2	S49°19'59"W	1139.17'
3	S02°32'24"W	239.63'

CURVE DATA

NO.	R	Δ	T	L
1	1700.00'	48°48'22"	771.26'	1448.11'
2	1700.00'	46°47'36"	735.54'	1388.38'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
S CLOVIS AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3010
SCALE AS SHOWN
SHEET NO. - OF -

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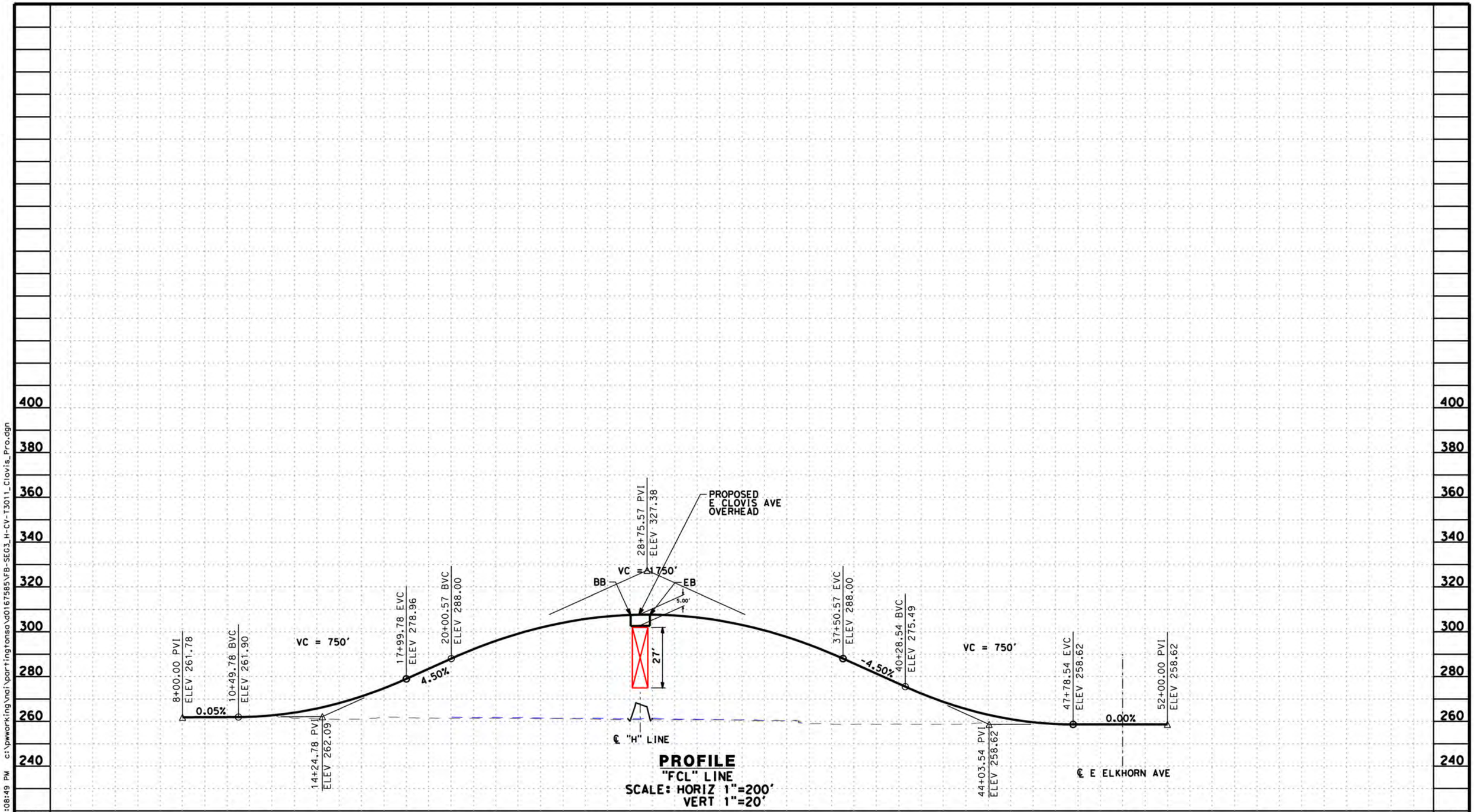

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
E CLOVIS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3011
SCALE AS SHOWN
SHEET NO. - OF -

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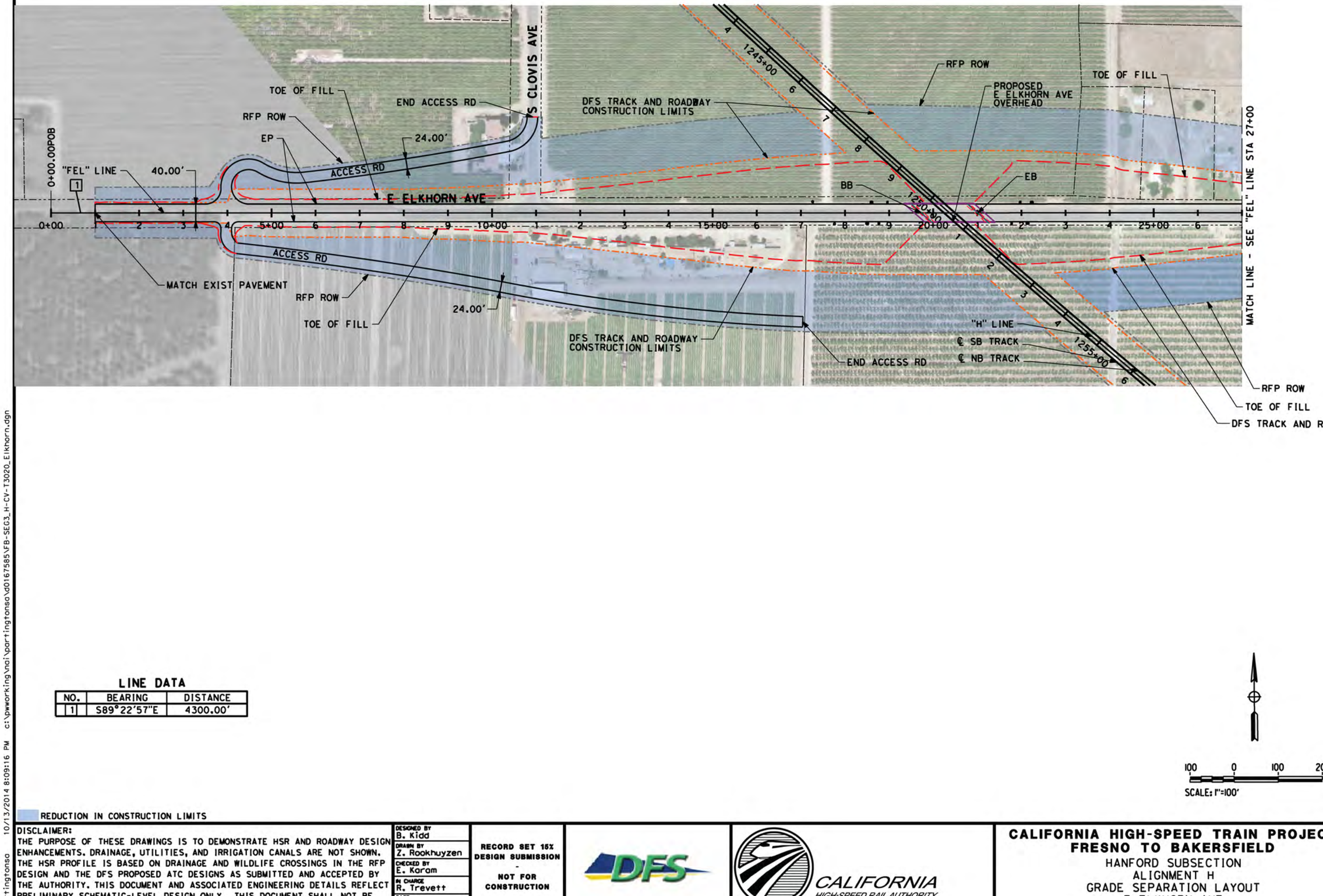

LINE DATA

NO.	BEARING	DISTANCE
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100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
E ELKHORN AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3020
SCALE AS SHOWN
SHEET NO. - OF -

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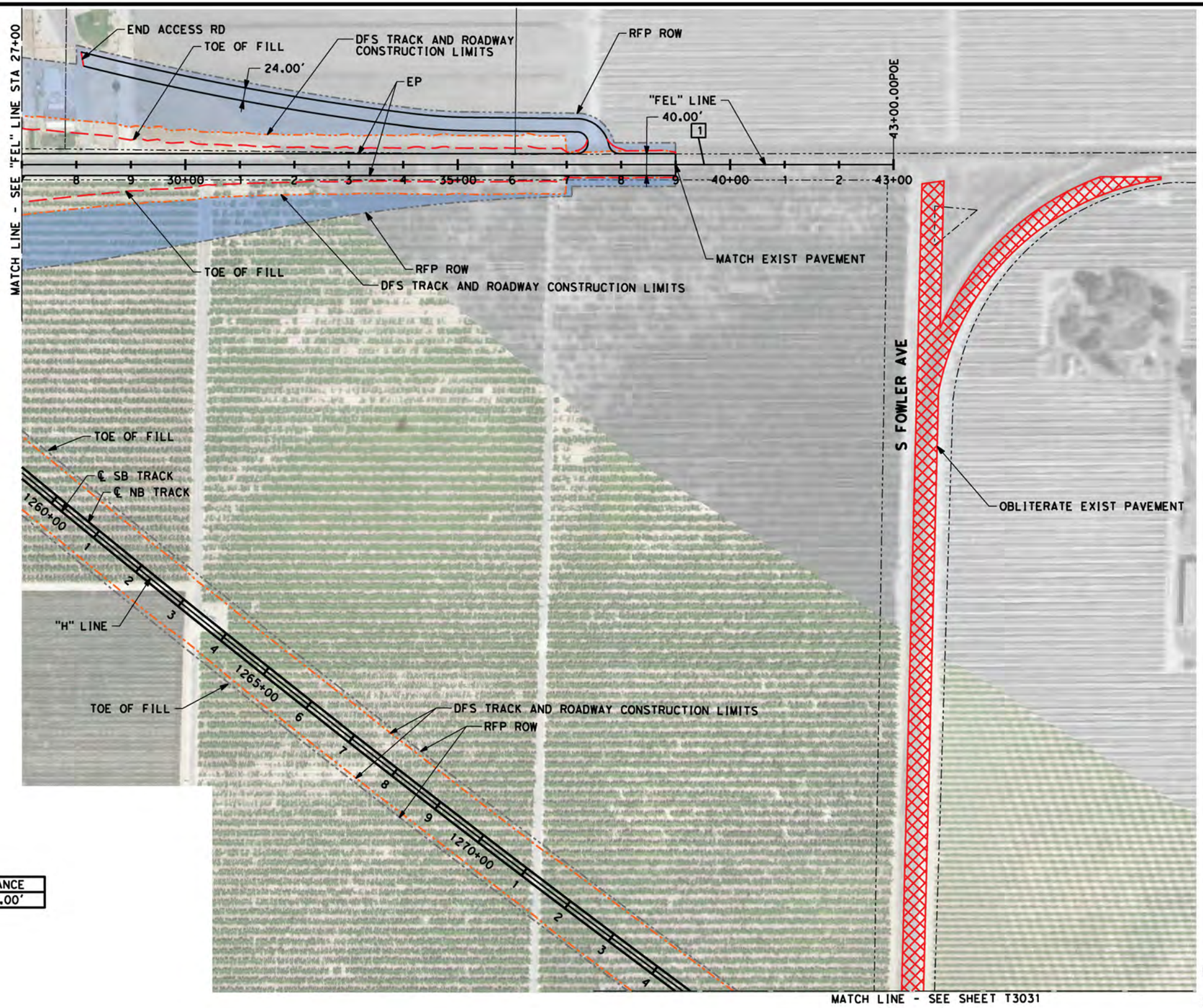

REDUCTION IN CONSTRUCTION LIMITS

LINE DATA

NO.	BEARING	DISTANCE
1	S89°22'57"E	4300.00'

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 06/30/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
E ELKHORN AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3021
SCALE AS SHOWN
SHEET NO. - OF -

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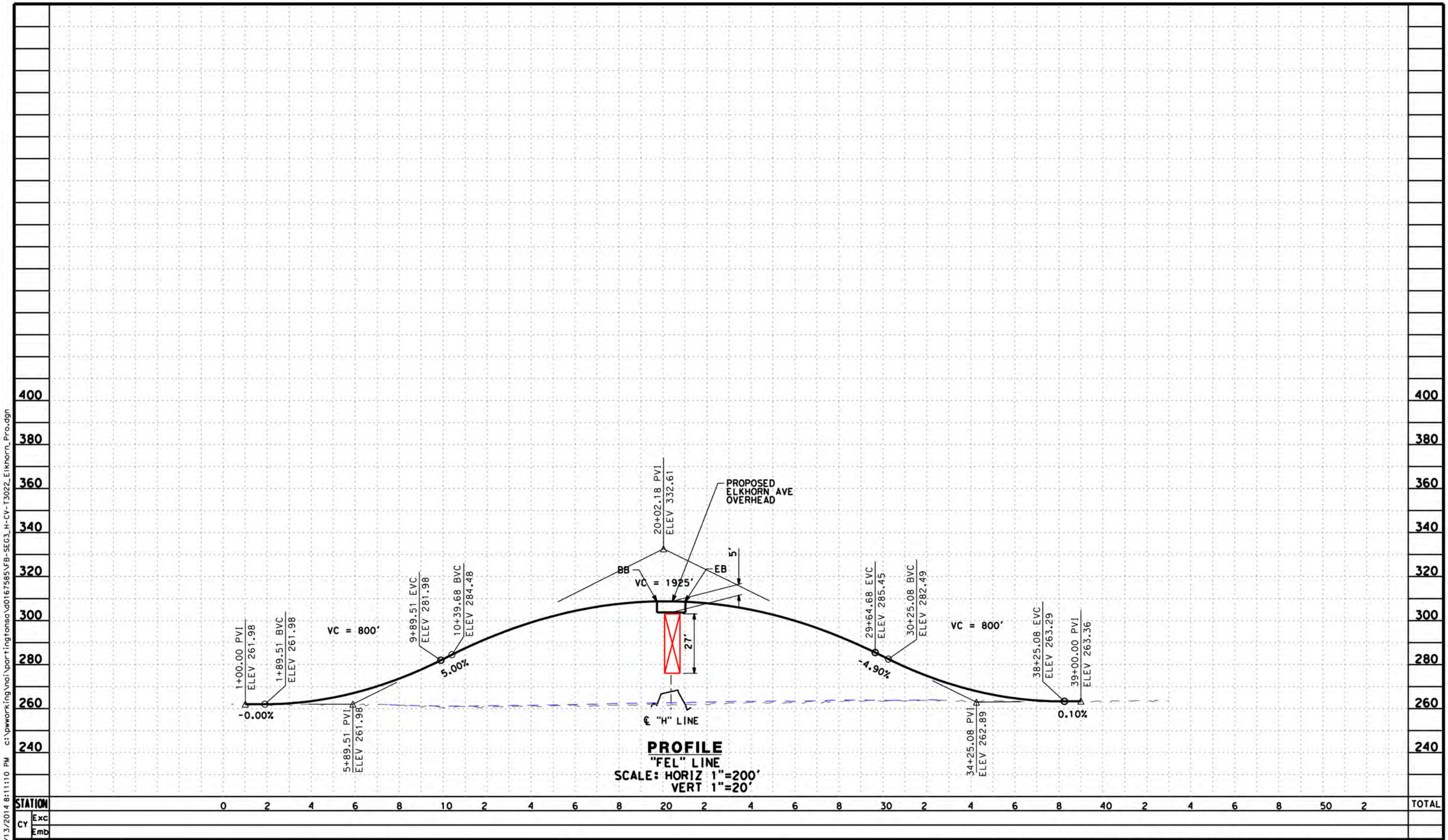

PROFILE
"FEL" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
ELKHORN AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3022
SCALE AS SHOWN
SHEET NO. - OF -

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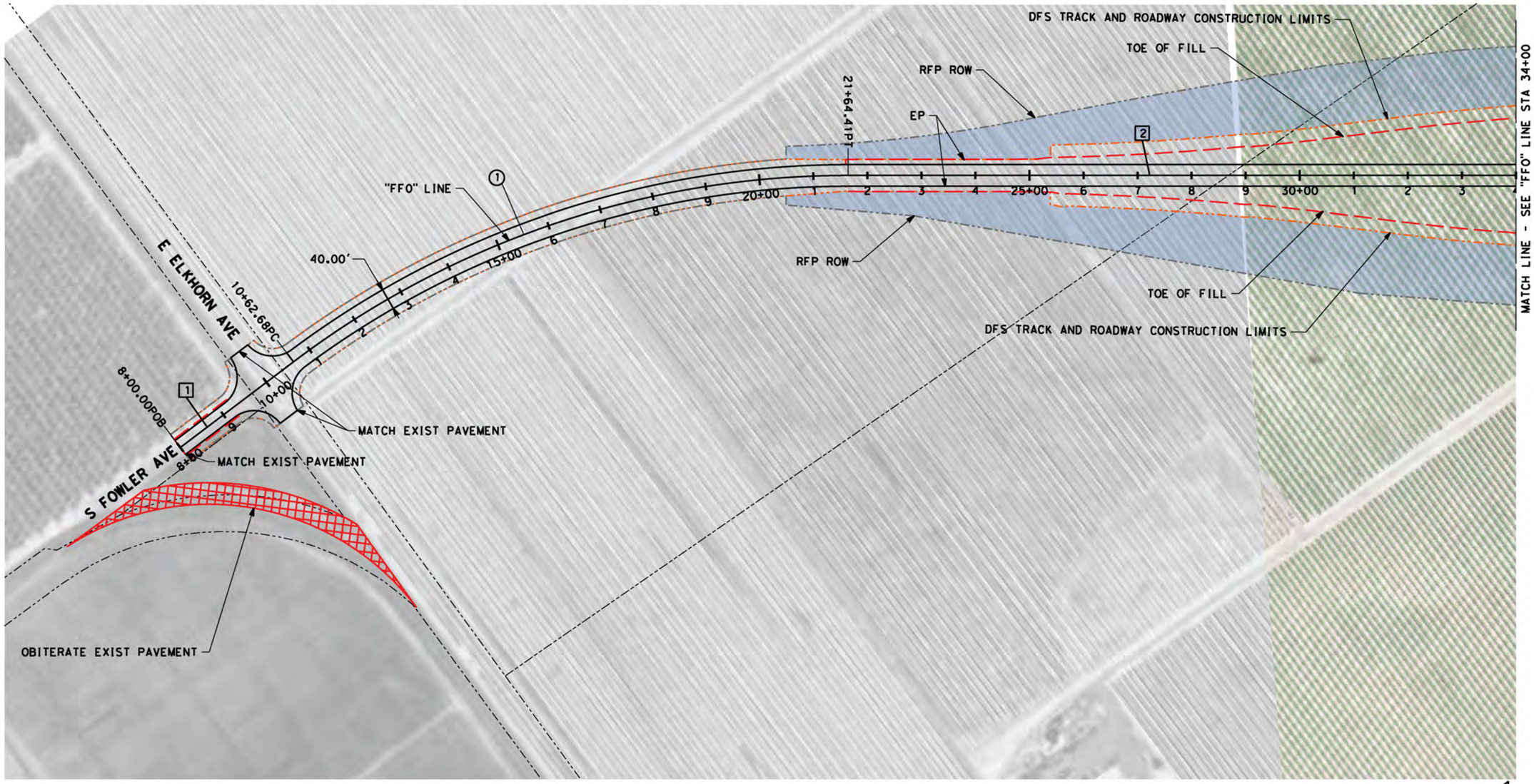

LINE DATA

NO.	BEARING	DISTANCE
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2	S37°07'55"W	2434.51'

CURVE DATA

NO.	R	Δ	T	L
(1)	1700.00'	37°07'55"	570.99'	1101.73'

100 0 100 200
SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
S FOWLER AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3030
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:11:36 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG3_H-CV-T3030_Fowler01.dgn

LINE DATA

NO.	BEARING	DISTANCE
2	S37°07'55"W	2434.51'
3	S01°53'22"W	255.41'

CURVE DATA

NO.	R	Δ	T	L
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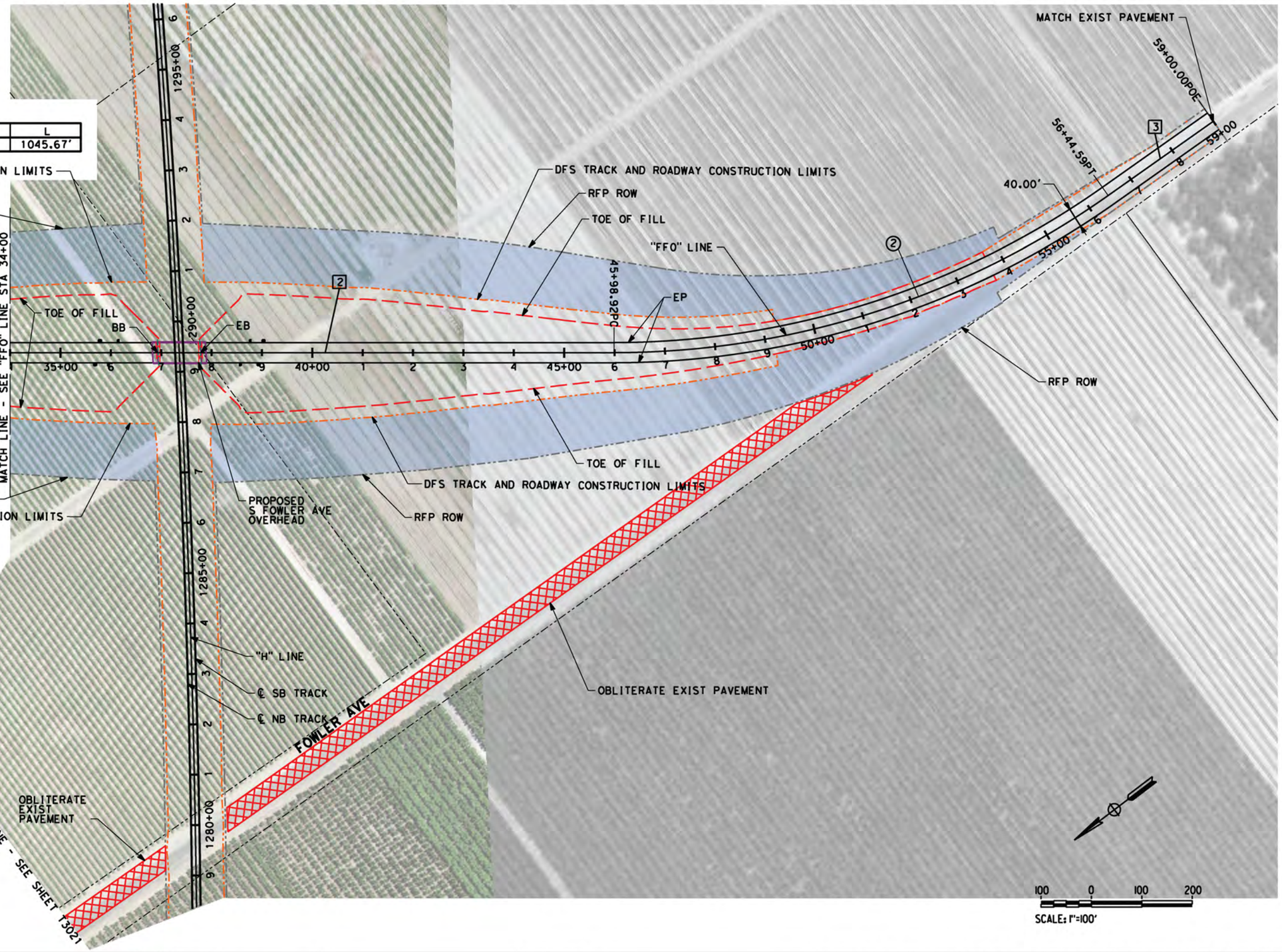

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
S FOWLER AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3031
SCALE AS SHOWN
SHEET NO. - OF -

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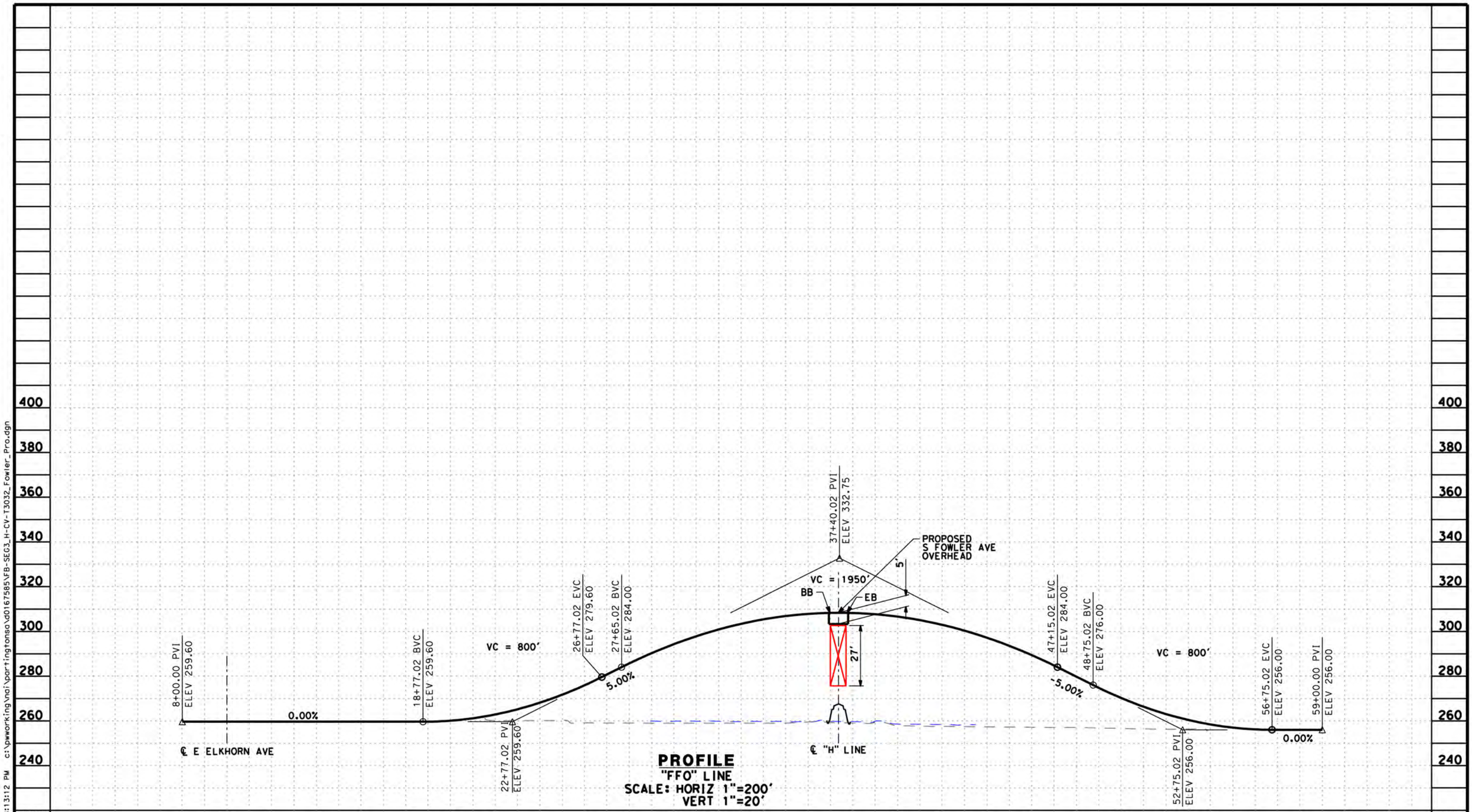

PROFILE
"FFO" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
S FOWLER AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3032
SCALE AS SHOWN
SHEET NO. - OF -

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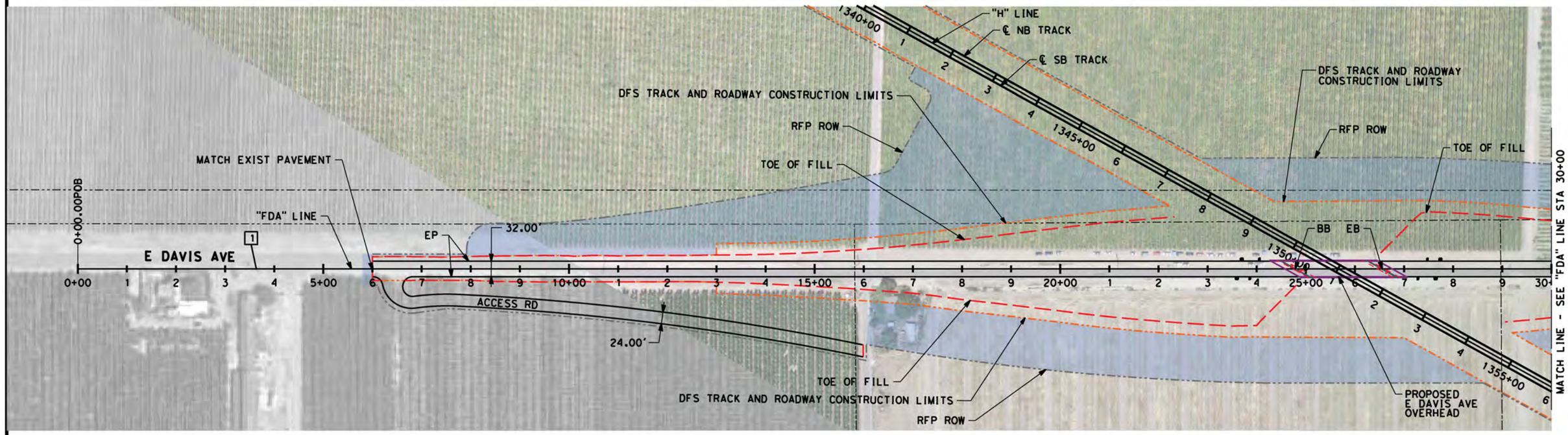

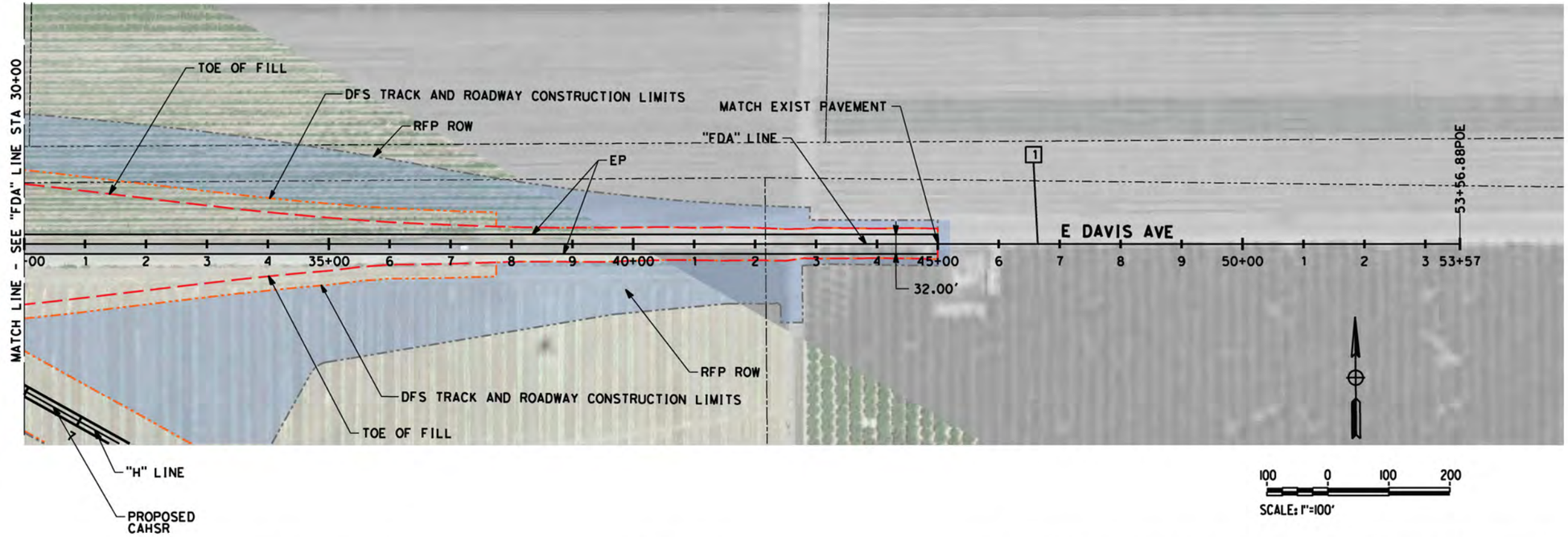

LINE DATA

NO.	BEARING	DISTANCE
1	S89°31'12"E	5354.88'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
E DAVIS AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3040
SCALE AS SHOWN
SHEET NO. - OF -

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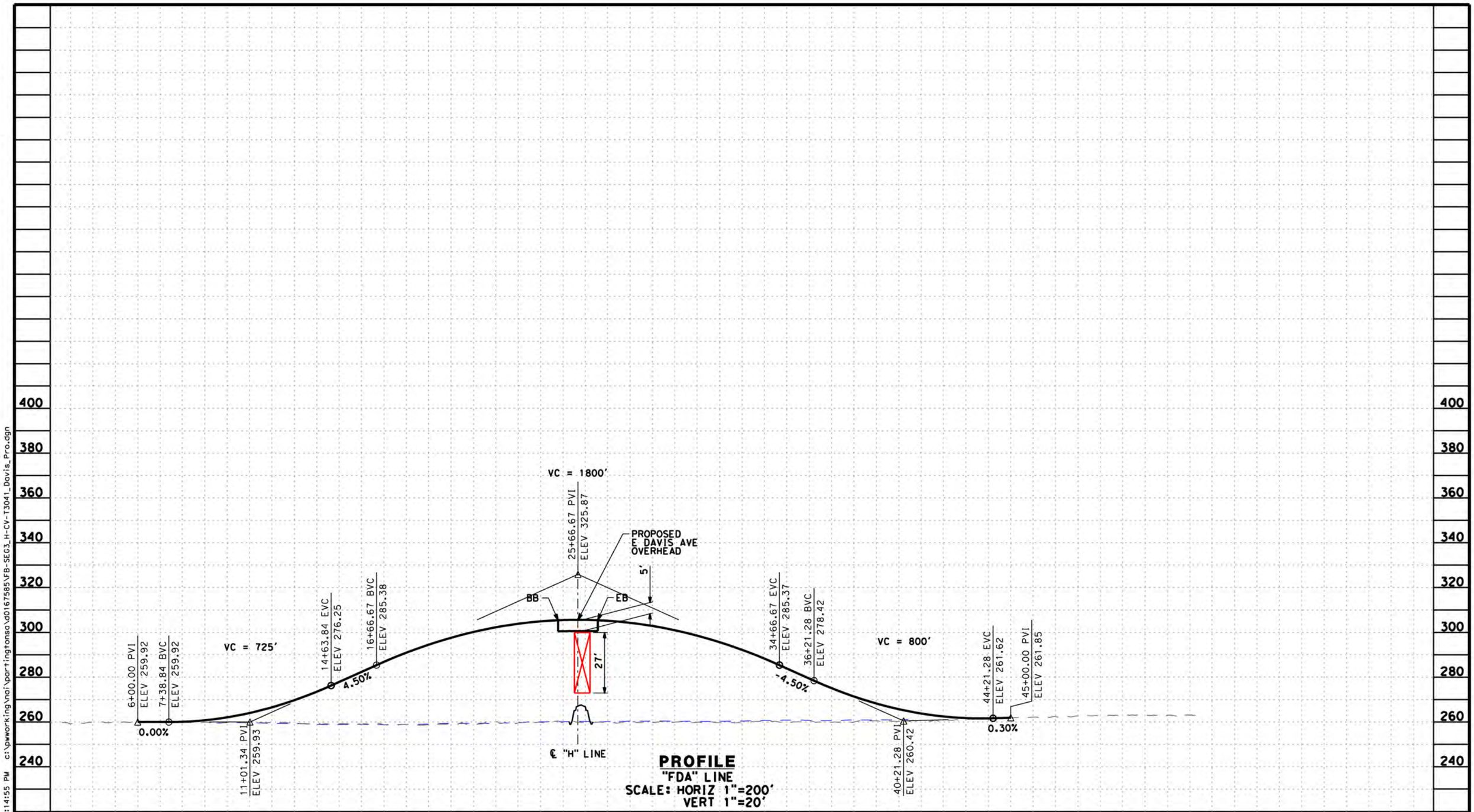

STATION	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	8	60	2	TOTAL
CY Exc																														
CY Emb																														

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

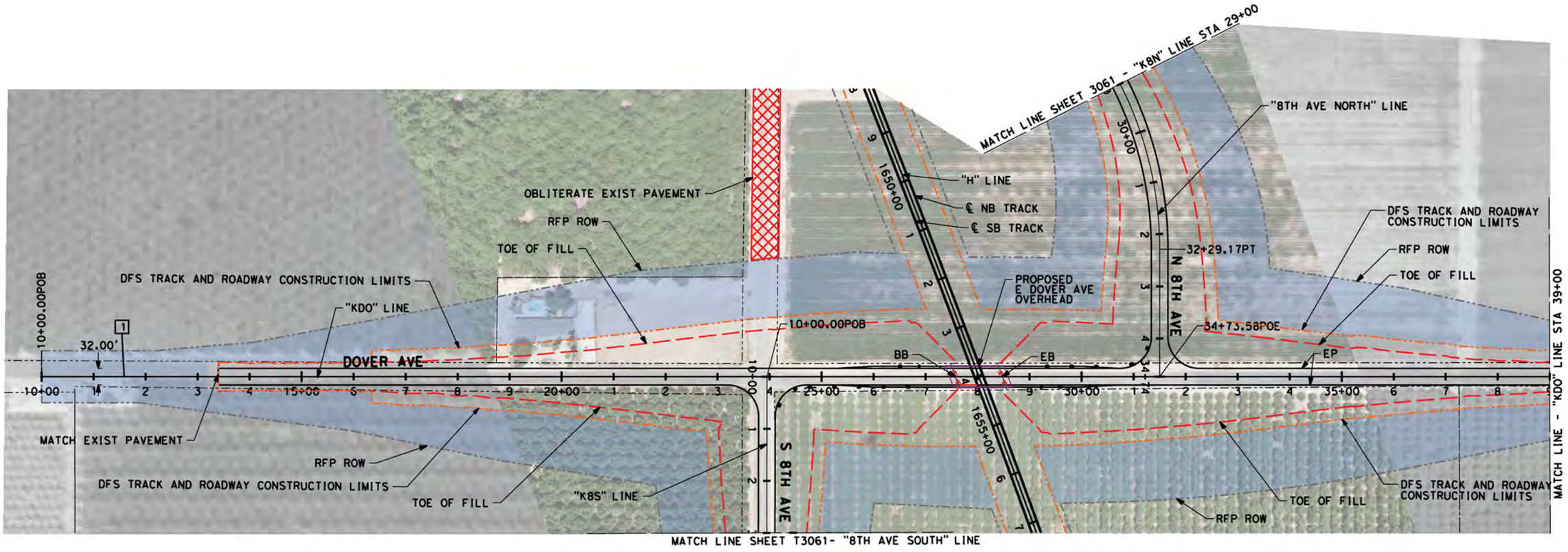
DFS

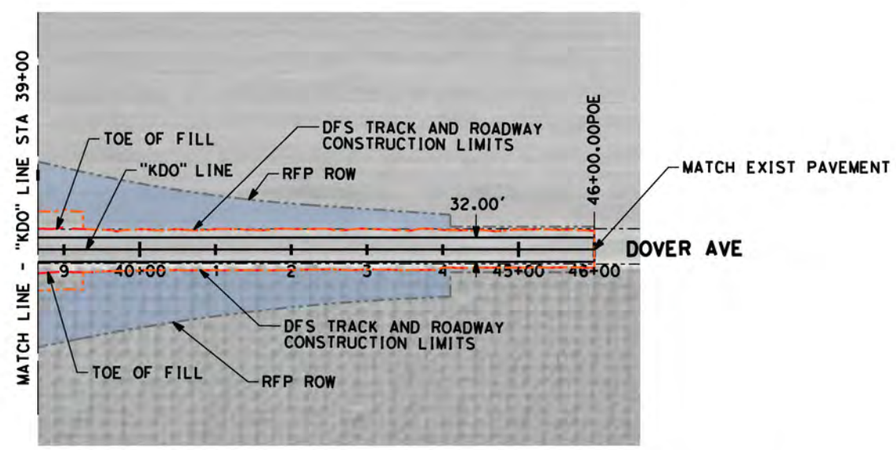
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
E DAVIS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3041
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:14:55 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG3_H-CV-T3041_Davis_Pro.dgn





LINE DATA

NO.	BEARING	DISTANCE
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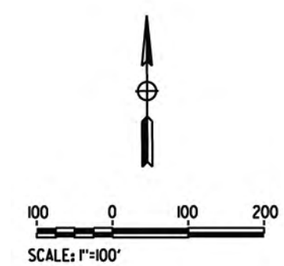

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
DOVER AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3050
SCALE AS SHOWN
SHEET NO. - OF -

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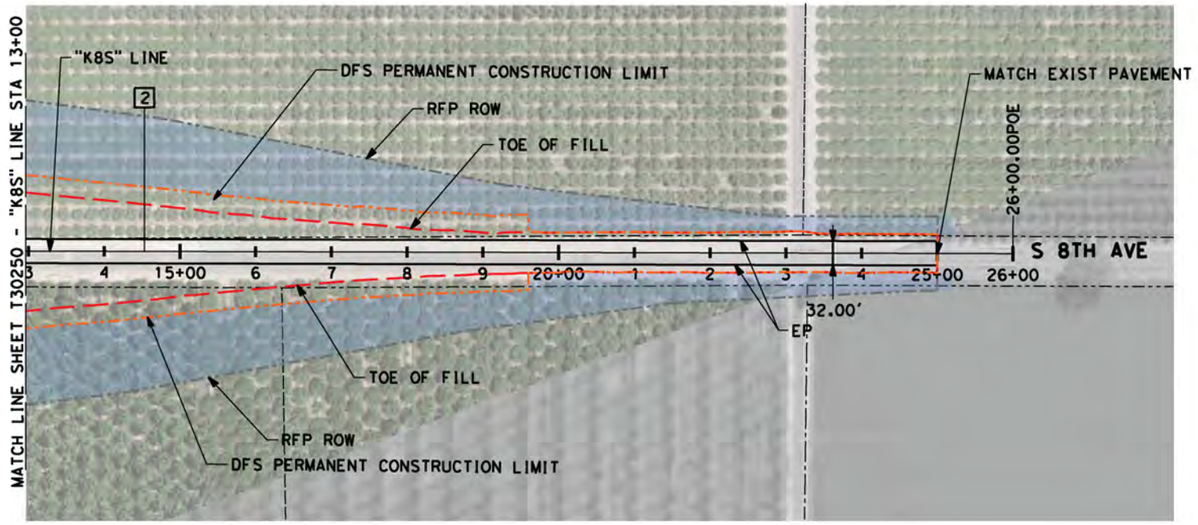

CURVE DATA

NO.	R	Δ	T	L
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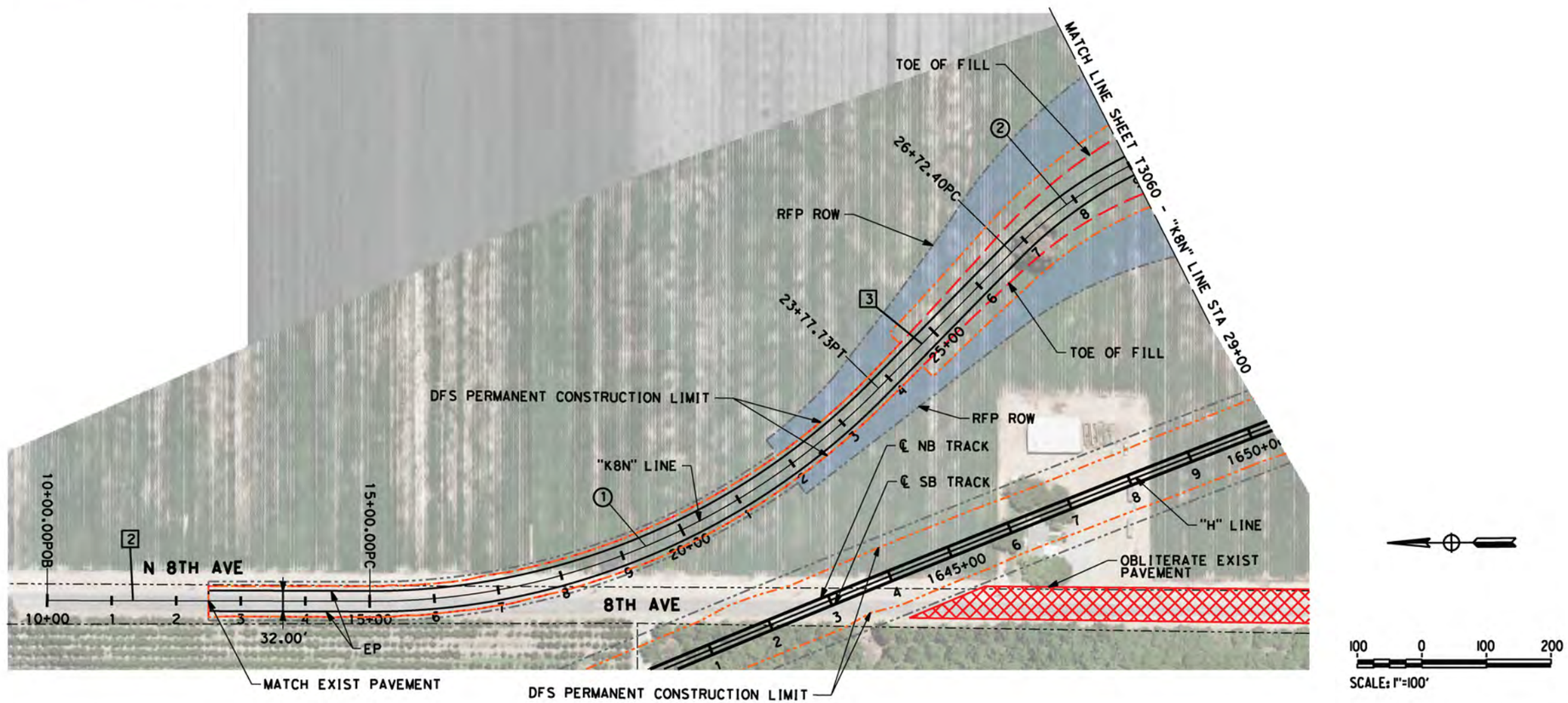
2	700.00'	8°11'06"	294.06'	556.77'



LINE DATA

NO.	BEARING	DISTANCE
1	S00°21'19"W	1600.00'
2	S00°21'19"W	500.00'
3	S45°21'47"W	294.67'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

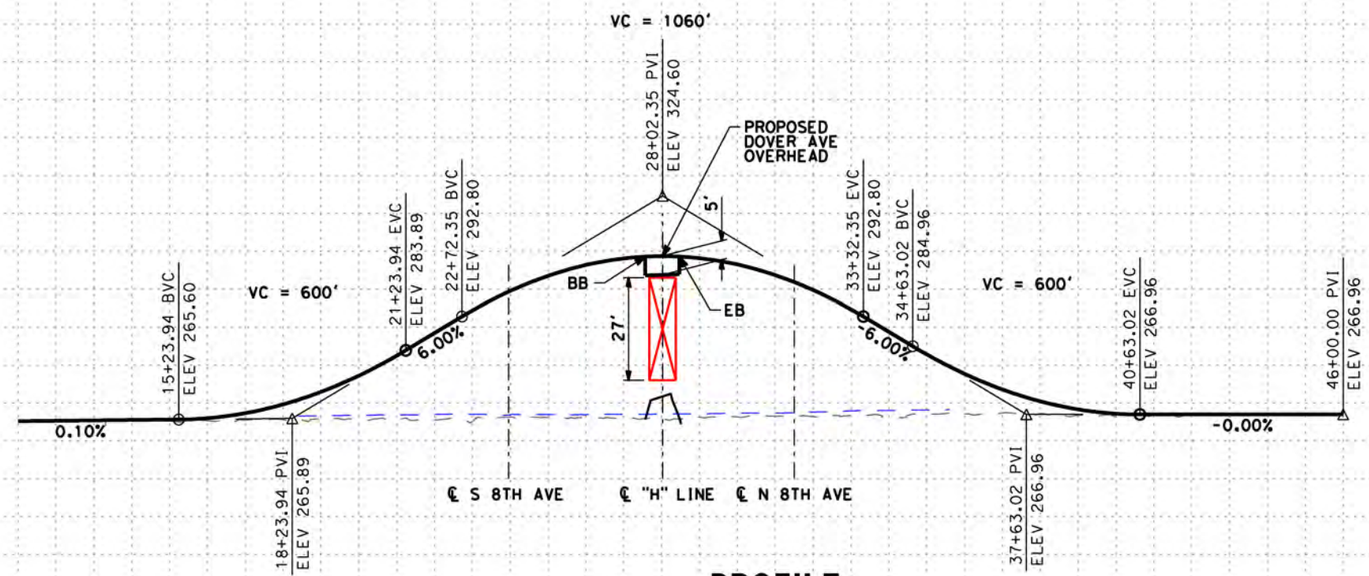
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
8th AVE (NORTH AND SOUTH)

CONTRACT NO. HST 06-0003
DRAWING NO. T3051
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:16:08 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG3_H-CV-T3051_Dover02-K8.dgn



PROFILE
"KDO" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	8	60	2	TOTAL
CY Exc																														
CY Emb																														

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

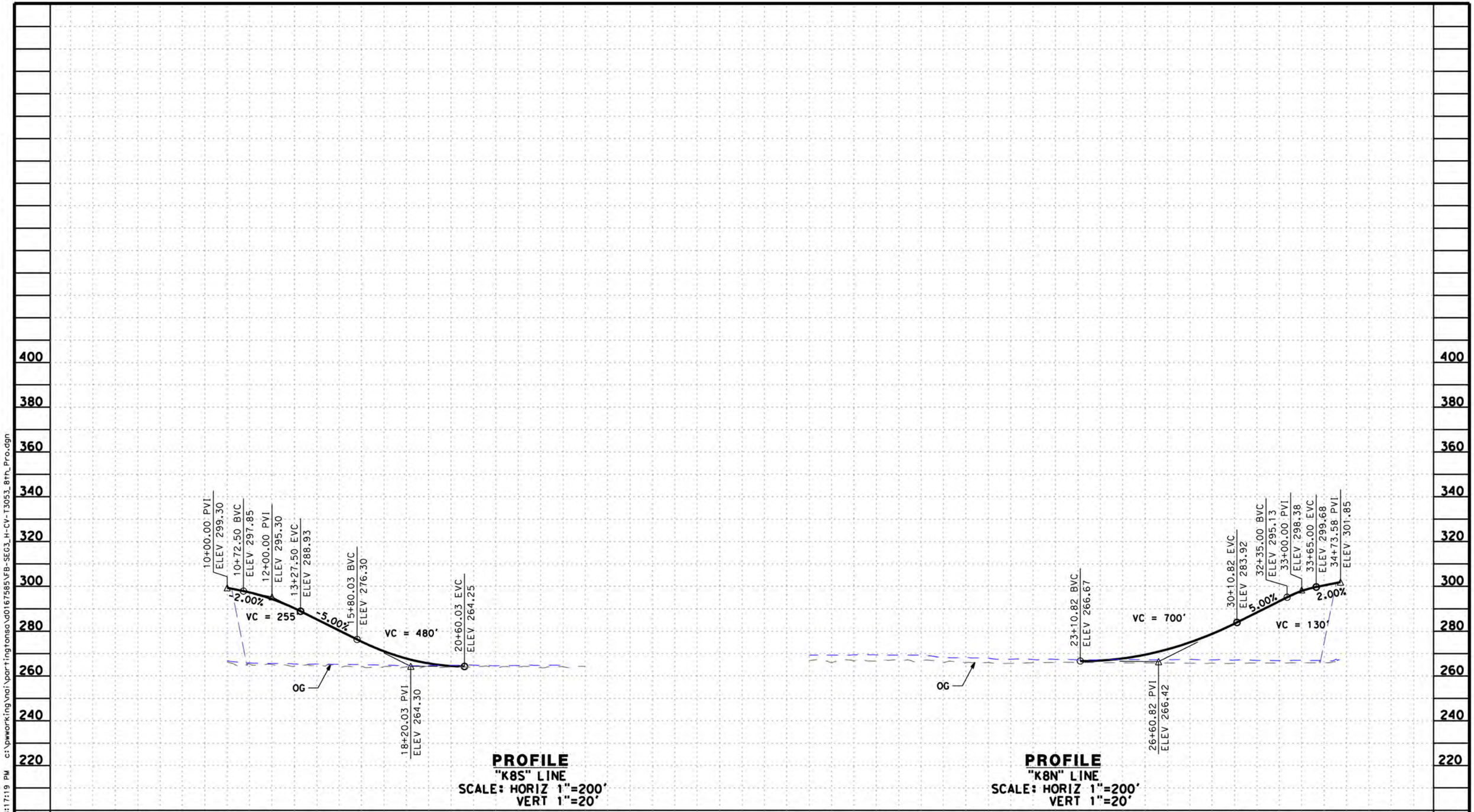
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
DOVER AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3052
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:17:12 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG3_H-CV-T3052_Dover_Pro.dgn



PROFILE
"K8S" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

PROFILE
"K8N" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

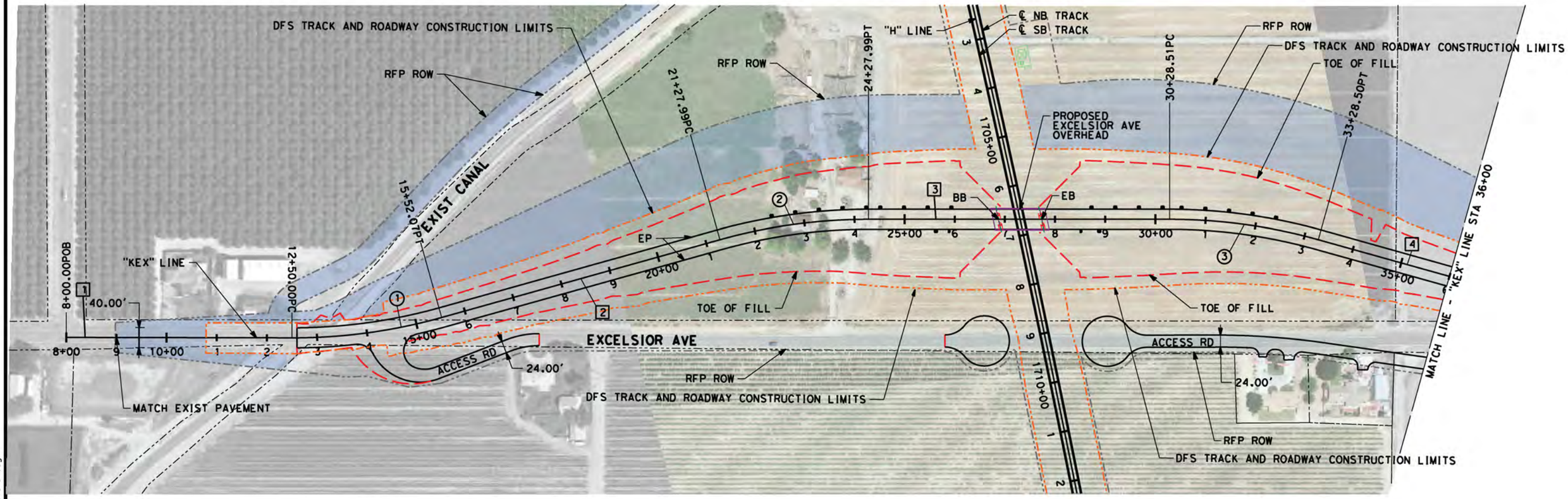
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
8TH AVE (NORTH & SOUTH)

CONTRACT NO. HSR 06-0003
DRAWING NO. T3053
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:17:19 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SE03_H-CV-T3053_8th_Pro.dgn

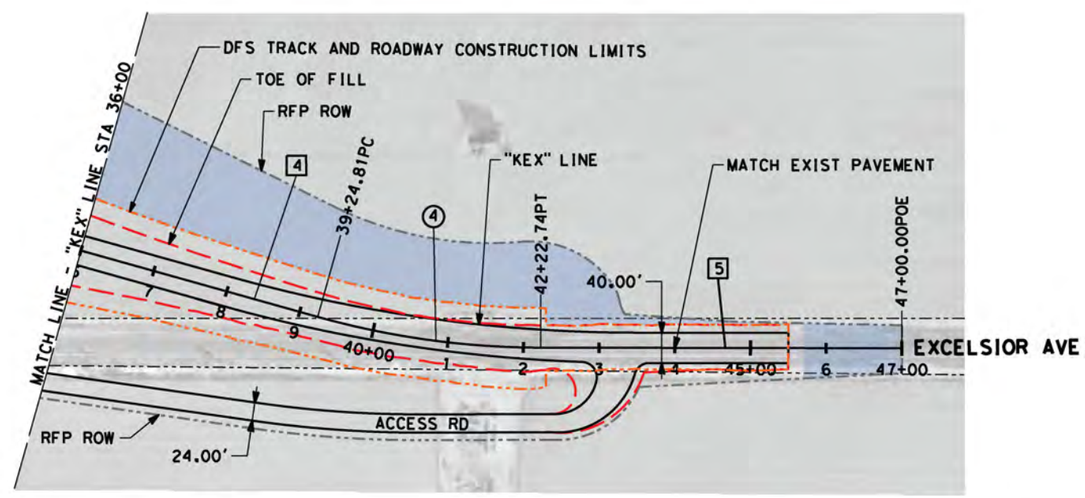


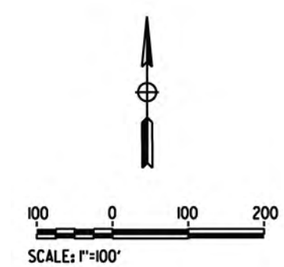
LINE DATA

NO.	BEARING	DISTANCE
1	S89°46'07"E	250.00'
2	N74°29'50"E	575.91'
3	S89°52'36"E	600.52'
4	S74°15'02"E	473.68'
5	S89°46'07"E	354.63'

CURVE DATA

NO.	R	Δ	T	L
1	1100.00'	15°44'03"	151.99'	302.07'
2	1100.00'	15°37'34"	150.94'	300.00'
3	1100.00'	15°37'34"	150.94'	300.00'
4	2000.00'	15°31'05"	272.51'	541.68'





REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

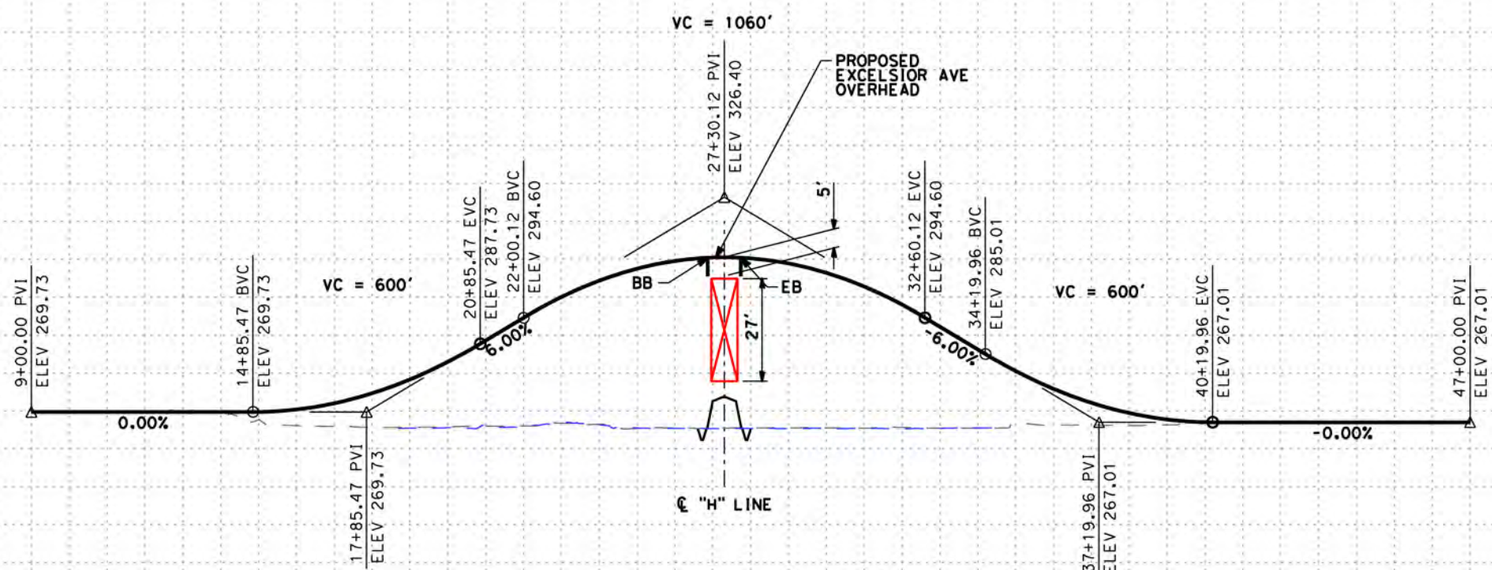
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
EXCELSIOR AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3060
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:17:43 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG3_H-CV-T3060_Excelsior.dgn



PROFILE

"KEX" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	8	60	2	TOTAL
CY Exc																														
CY Emb																														

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
EXCELSIOR AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3061
SCALE AS SHOWN
SHEET NO. - OF -

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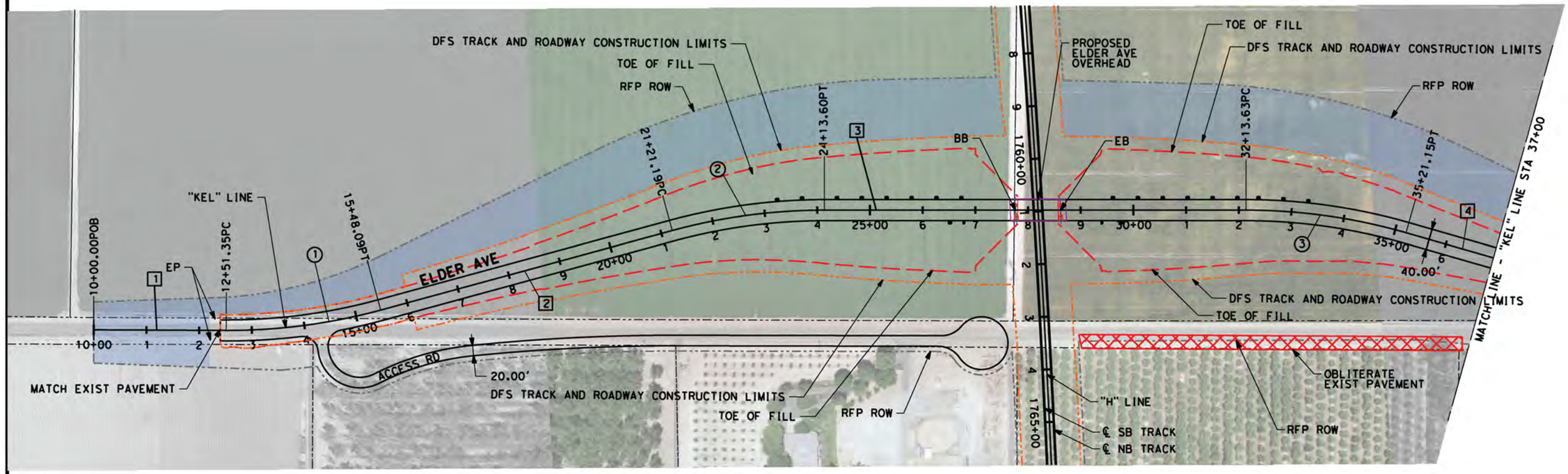

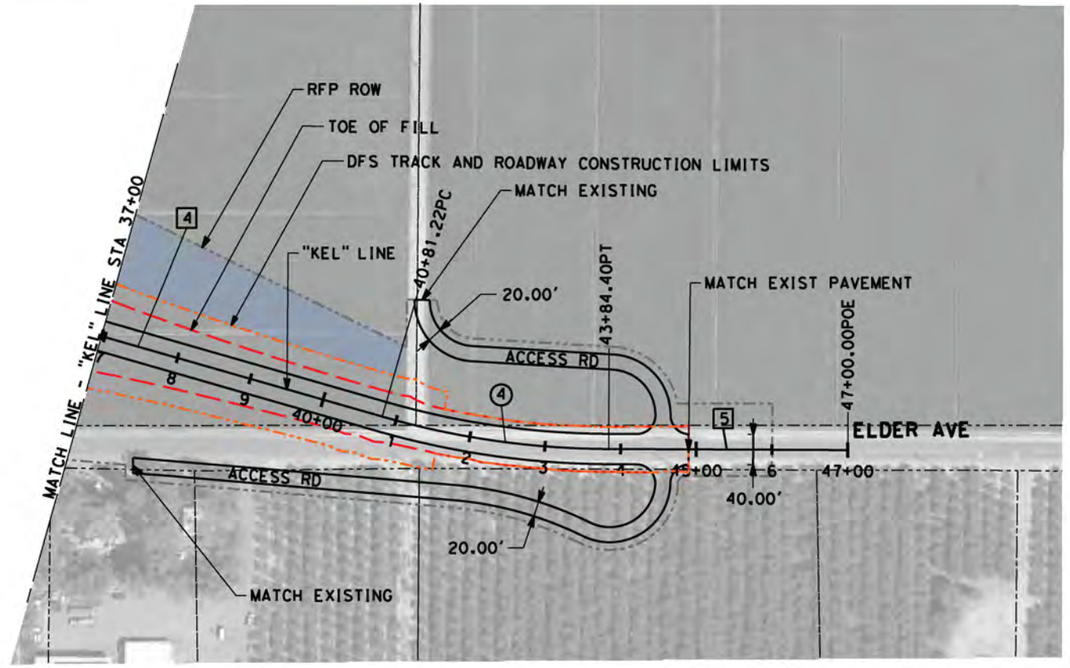

100 0 100 200

SCALE: 1"=100'

LINE DATA

NO.	BEARING	DISTANCE
1	S89°53'06"E	251.35'
2	N74°39'31"E	573.10'
3	N89°53'20"E	800.03'
4	S74°05'35"E	560.07'
5	S89°53'06"E	315.60'

CURVE DATA

NO.	R	Δ	T	L
(1)	1100.00'	15°27'23"	149.28'	296.74'
(2)	1100.00'	15°13'50"	147.07'	292.40'
(3)	1100.00'	16°01'51"	154.77'	307.52'
(4)	1100.00'	15°47'31"	152.56'	303.18'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
ELDER AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3070
SCALE AS SHOWN
SHEET NO. - OF -

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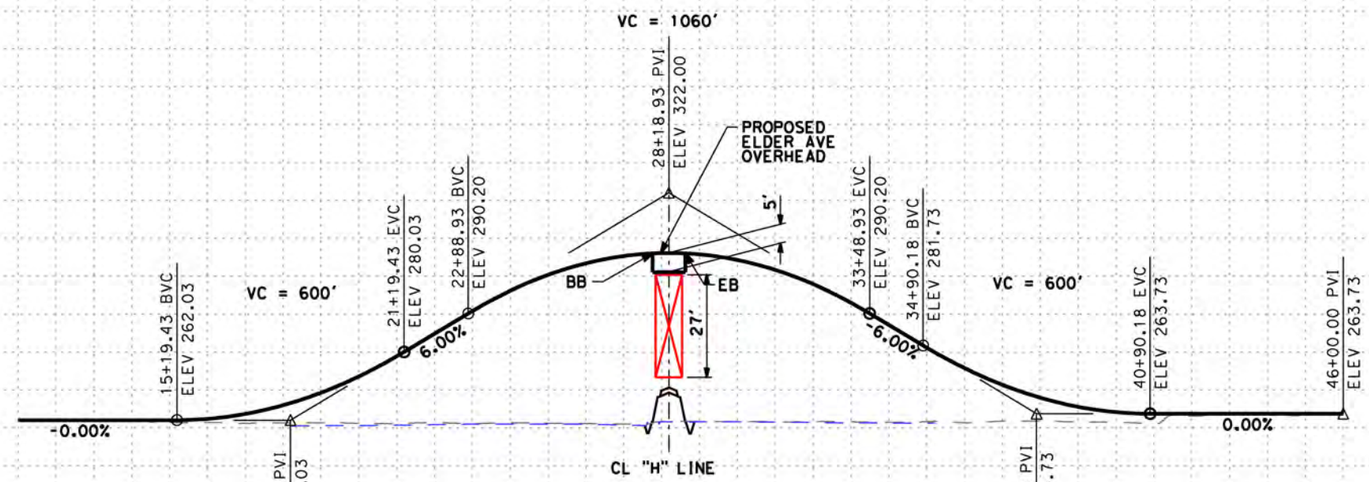

PROFILE
"KEL" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	8	60	2	TOTAL
CY Exc																														
CY Emb																														

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
ELDER AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3071
SCALE AS SHOWN
SHEET NO. - OF -

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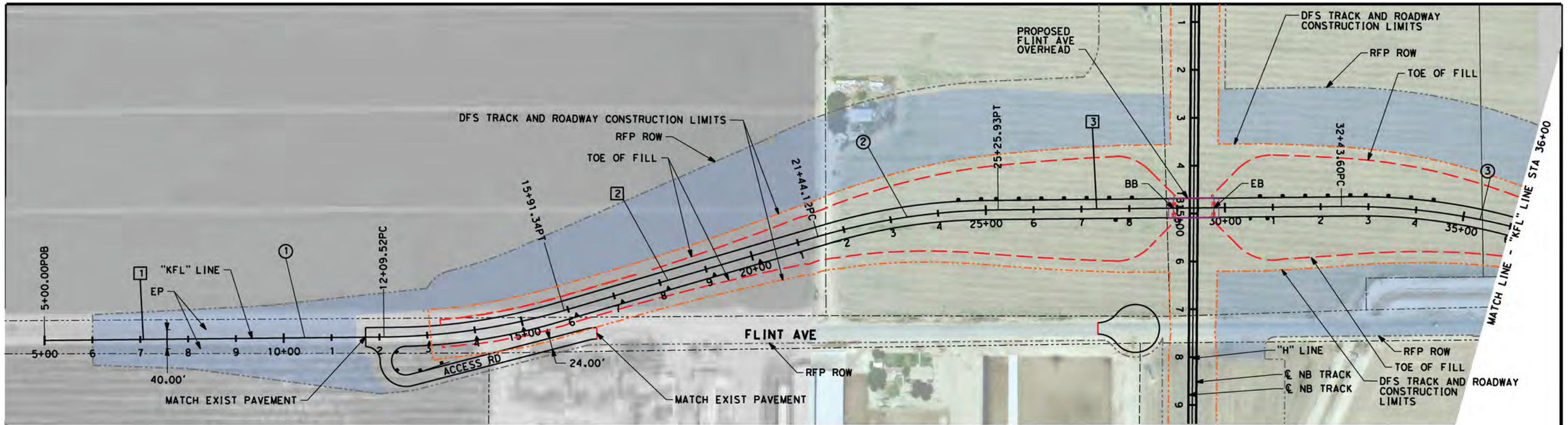

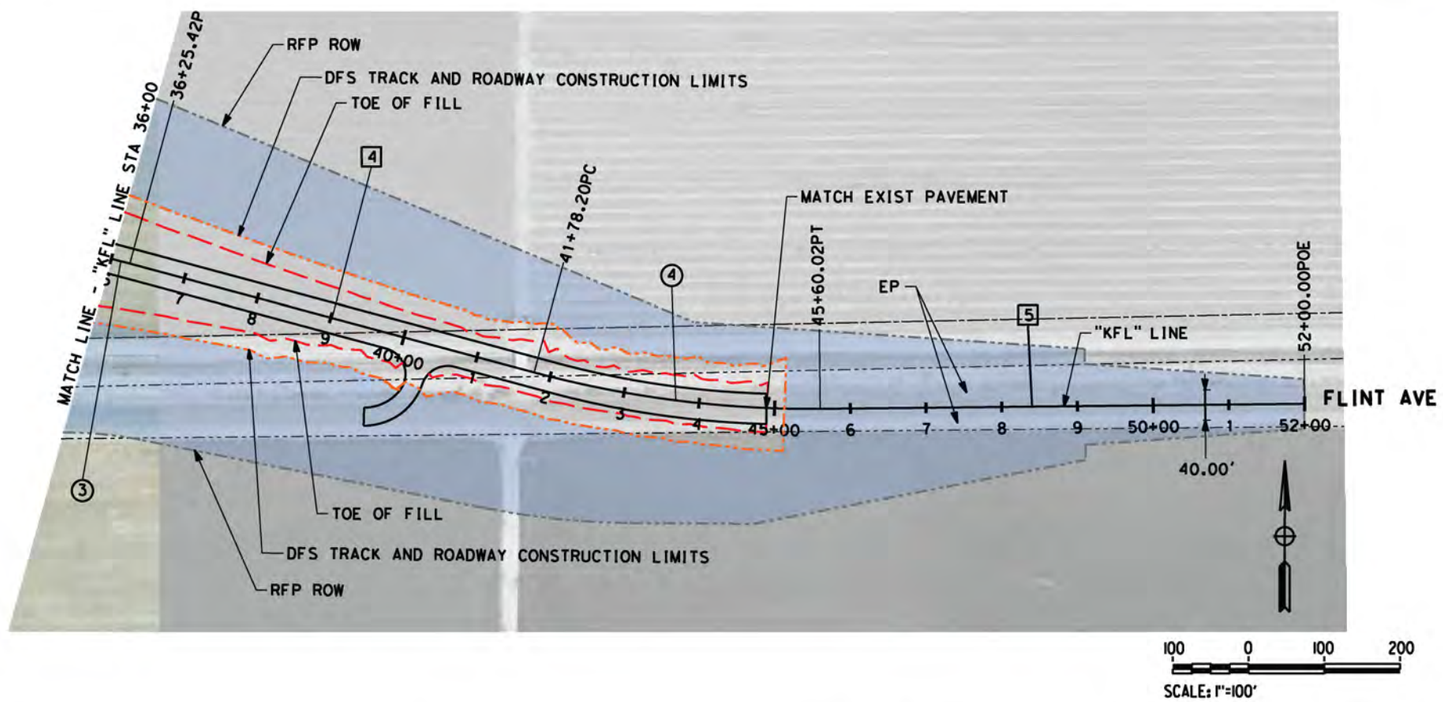

LINE DATA

NO.	BEARING	DISTANCE
1	N89°18'29"E	709.52'
2	N73°40'56"E	607.67'
3	N89°18'29"E	772.56'
4	S75°03'57"E	607.67'
5	N89°18'29"E	466.75'

CURVE DATA

NO.	R	Δ	T	L
1	1400.00'	15°37'34"	192.10'	381.82'
2	1400.00'	15°37'34"	192.10'	381.82'
3	1400.00'	15°37'34"	192.10'	381.82'
4	1400.00'	15°37'34"	192.10'	381.82'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

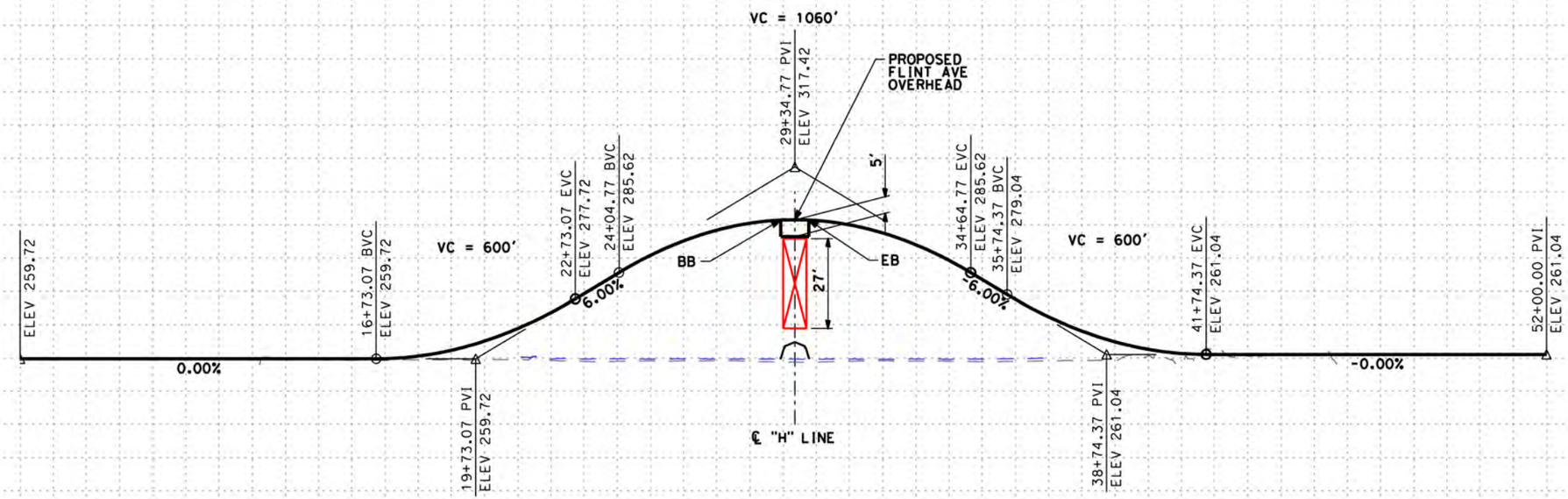
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
FLINT AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3080
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:19:41 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG3_H-CV-T3080_Flint.dgn



PROFILE
"KFL" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	8	60	2	TOTAL
CY Exc																														
CY Emb																														

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

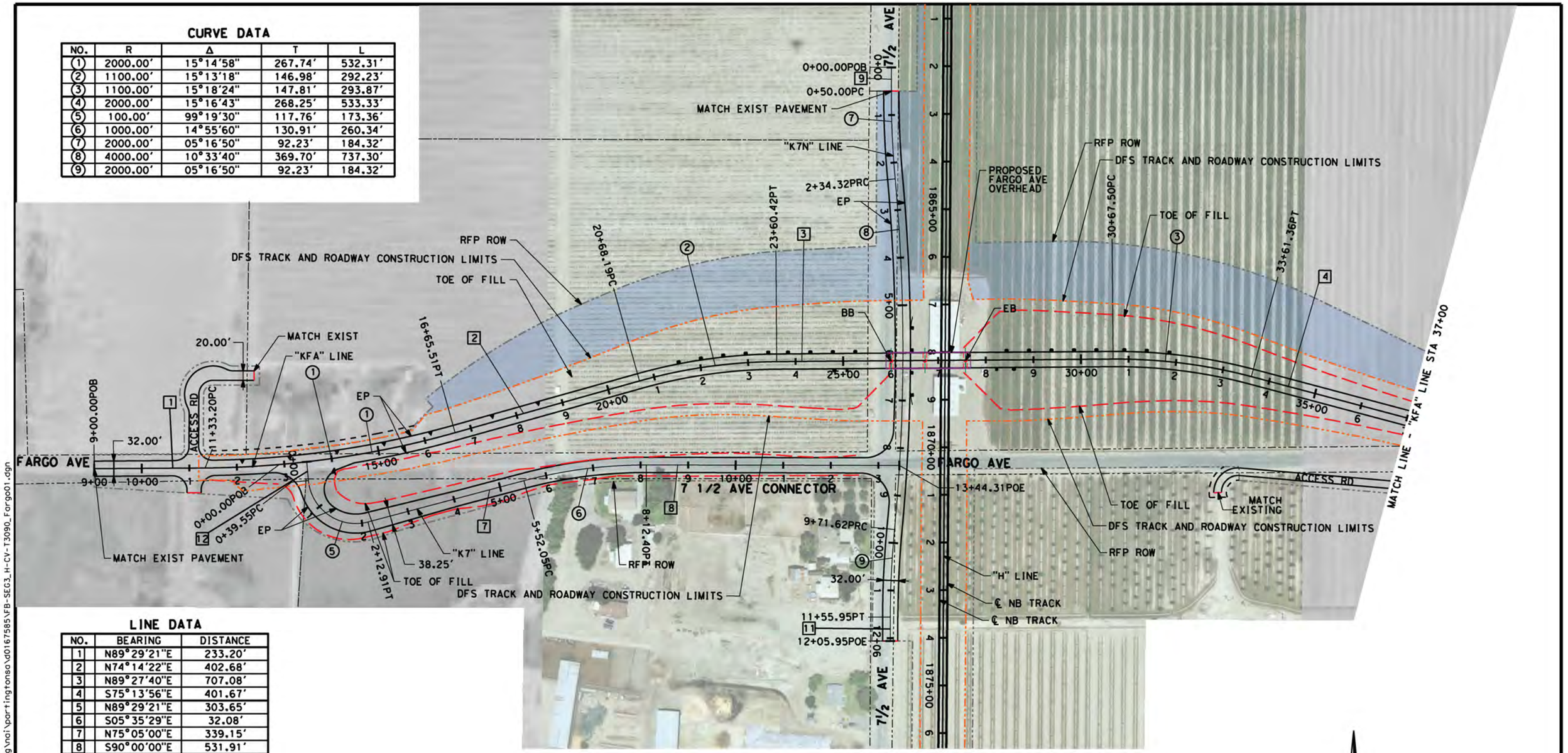
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
FLINT AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3081
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:20:09 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG3_H-CV-T3081_Flint_Pro.dgn

CURVE DATA

NO.	R	Δ	T	L
1	2000.00'	15°14'58"	267.74'	532.31'
2	1100.00'	15°13'18"	146.98'	292.23'
3	1100.00'	15°18'24"	147.81'	293.87'
4	2000.00'	15°16'43"	268.25'	533.33'
5	100.00'	99°19'30"	117.76'	173.36'
6	1000.00'	14°55'60"	130.91'	260.34'
7	2000.00'	05°16'50"	92.23'	184.32'
8	4000.00'	10°33'40"	369.70'	737.30'
9	2000.00'	05°16'50"	92.23'	184.32'



LINE DATA

NO.	BEARING	DISTANCE
1	N89°29'21"E	233.20'
2	N74°14'22"E	402.68'
3	N89°27'40"E	707.08'
4	S75°13'56"E	401.67'
5	N89°29'21"E	303.65'
6	S05°35'29"E	32.08'
7	N75°05'00"E	339.15'
8	S90°00'00"E	531.91'
9	S00°00'00"E	50.00'
10	S00°00'00"E	50.00'
11	S00°00'00"E	50.00'
12	S05°35'29"E	39.55

100 0 100 200
SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
FARGO AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3090
SCALE AS SHOWN
SHEET NO. - OF -

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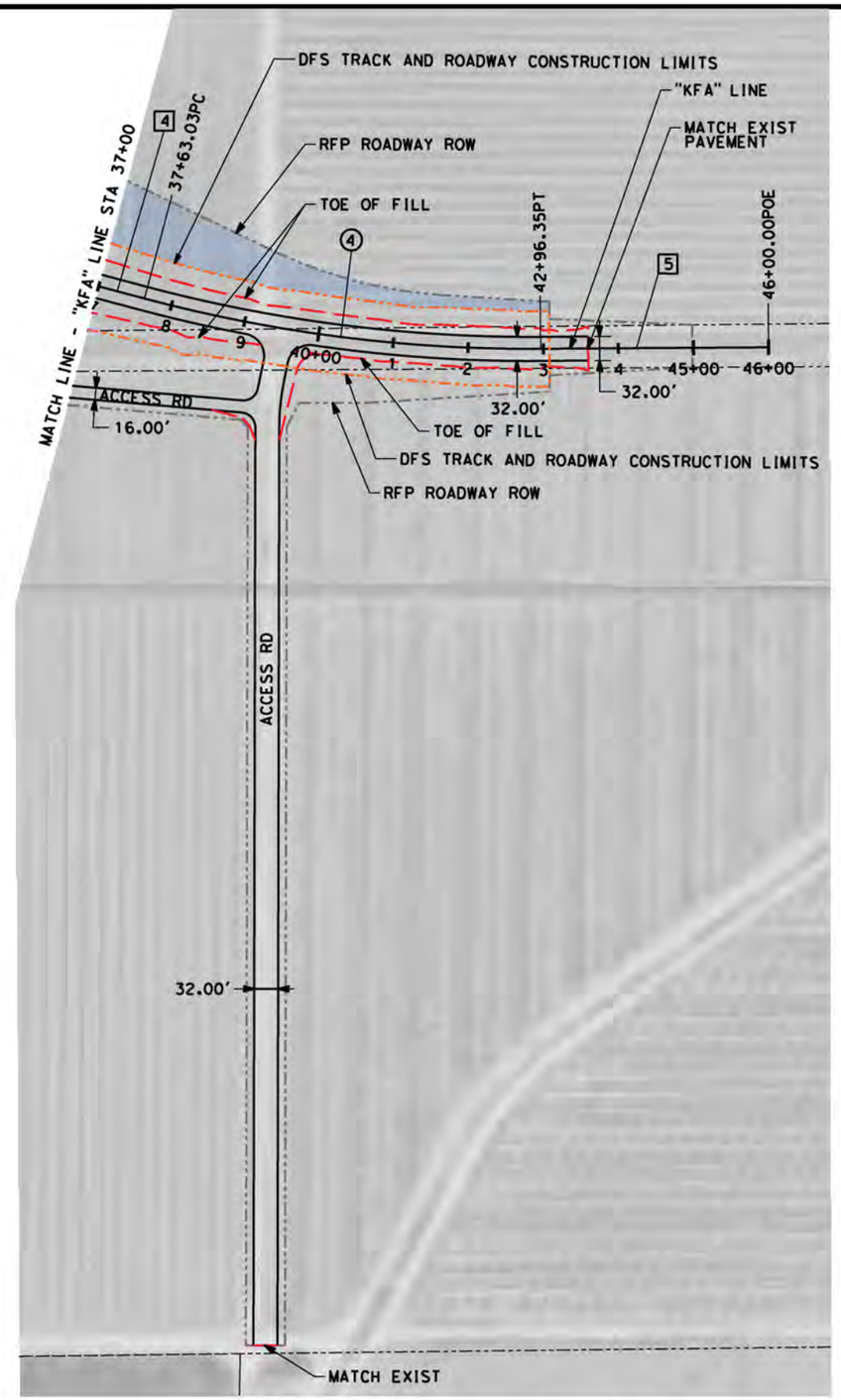

LINE DATA

NO.	BEARING	DISTANCE
4	S75°13'56"E	401.67'
5	N89°29'21"E	303.65'

CURVE DATA

NO.	R	Δ	T	L
(4)	2000.00'	15°16'43"	268.25'	533.33'

100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

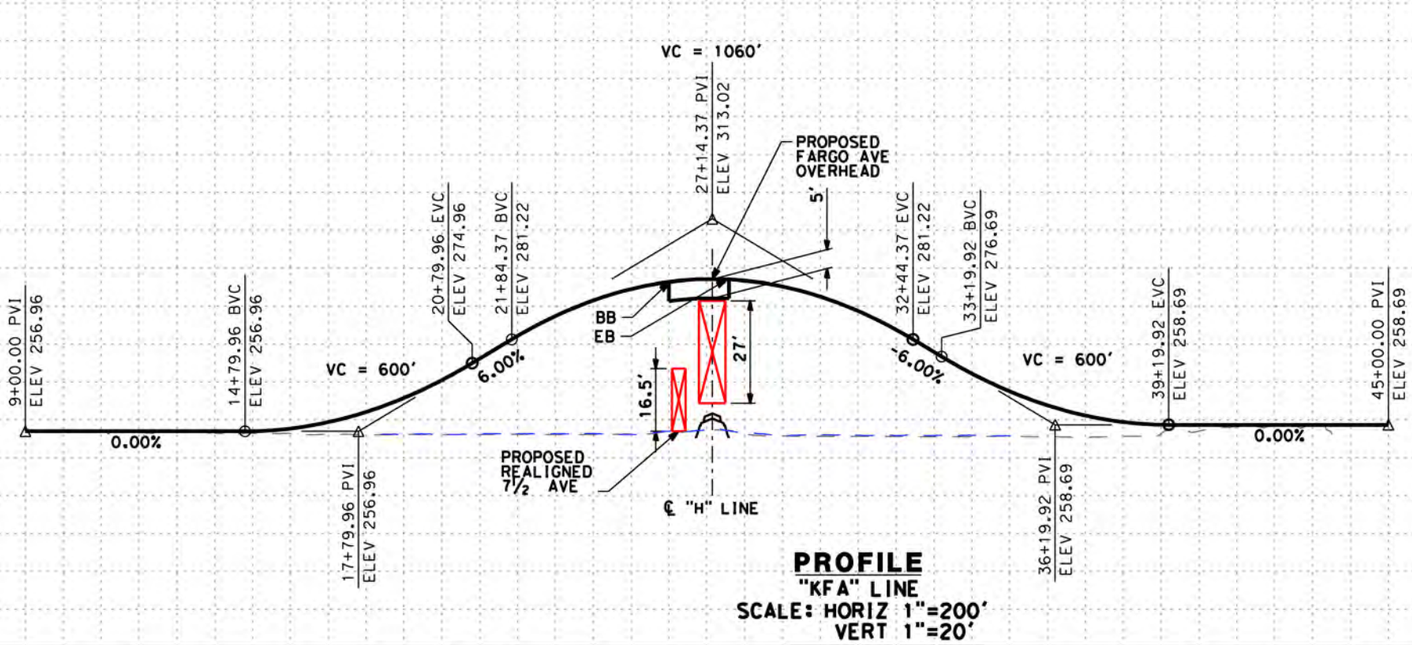
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
FARGO AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3091
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:21:17 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG3_H-CV-T3091_Fargo02.dgn



PROFILE

"KFA" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	8	60	2	TOTAL
CY Exc																														
CY Emb																														

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
FARGO AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3092
SCALE AS SHOWN
SHEET NO. - OF -

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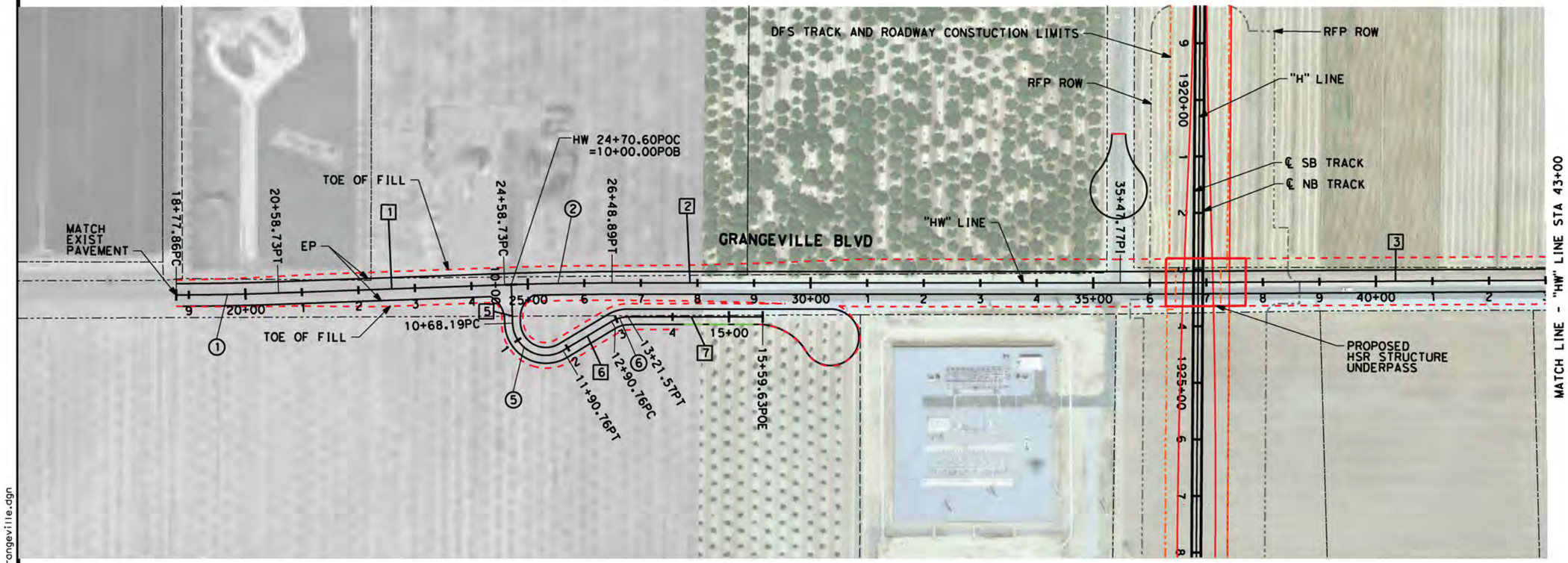


LINE DATA

NO.	BEARING	DISTANCE
1	N87°49'15"E	400.00'
2	N89°53'37"E	898.88'
3	N89°32'02"E	1174.44'
4	S88°32'04"E	400.00'
5	S2°02'35"E	68.19
6	N58°55'20"E	100.00'
7	N89°53'37"E	238.06'

CURVE DATA

NO.	R	Δ	T	L
1	5000.00'	2°04'21"	90.45'	180.87'
2	5000.00'	2°10'45"	95.09'	190.16'
3	5000.00'	1°27'56"	63.95'	127.89'
4	5000.00'	1°55'54"	87.29'	168.57'
5	59.00'	97°06'41"	100.23'	122.58'
6	57.00'	30°58'17"	15.79'	30.81'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE HSR AND ROADWAY DESIGN ENHANCEMENTS. DRAINAGE, UTILITIES, AND IRRIGATION CANALS ARE NOT SHOWN. THE HSR PROFILE IS BASED ON DRAINAGE AND WILDLIFE CROSSINGS IN THE RFP DESIGN AND THE DFS PROPOSED ATC DESIGNS AS SUBMITTED AND ACCEPTED BY THE AUTHORITY. THIS DOCUMENT AND ASSOCIATED ENGINEERING DETAILS REFLECT PRELIMINARY SCHEMATIC-LEVEL DESIGN ONLY. THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION.

DESIGNED BY Z. Rookhuyzen
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

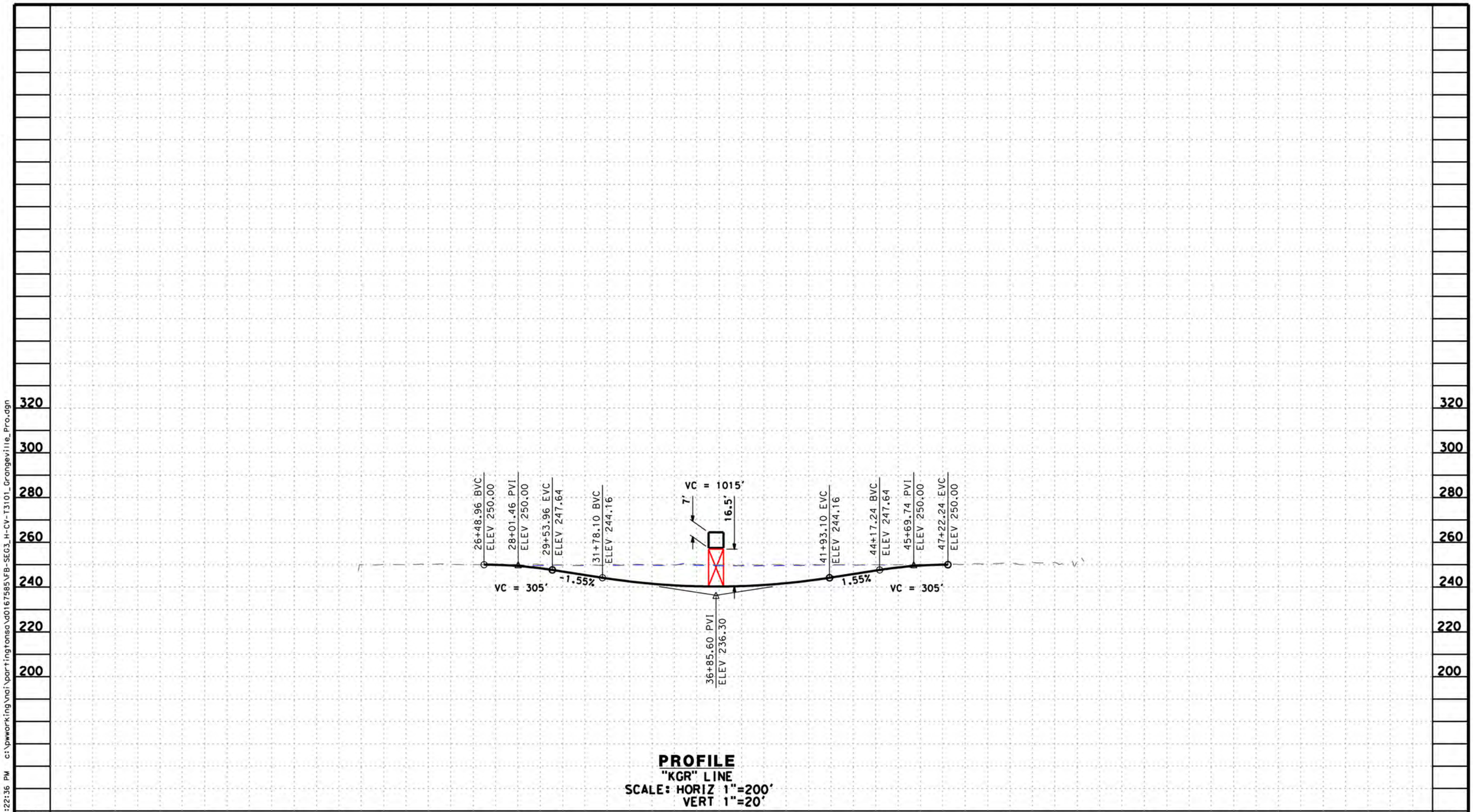
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
GRANGEVILLE BOULEVARD
ATC 17

CONTRACT NO. HST 06-0003
DRAWING NO. T3100
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:21:59 PM c:\pwworking\nai\partingtonsa\d0167585\VFB-SEG3_H-CV-T3100_Grangeville.dgn



DISCLAIMER:
THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE HSR AND ROADWAY DESIGN ENHANCEMENTS. DRAINAGE, UTILITIES, AND IRRIGATION CANALS ARE NOT SHOWN. THE HSR PROFILE IS BASED ON DRAINAGE AND WILDLIFE CROSSINGS IN THE RFP DESIGN AND THE DFS PROPOSED ATC DESIGNS AS SUBMITTED AND ACCEPTED BY THE AUTHORITY. THIS DOCUMENT AND ASSOCIATED ENGINEERING DETAILS REFLECT PRELIMINARY SCHEMATIC-LEVEL DESIGN ONLY. THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION.

DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
GRANGEVILLE BLVD

ATC 17

CONTRACT NO. HSR 06-0003
DRAWING NO. T3101
SCALE AS SHOWN
SHEET NO. - OF -

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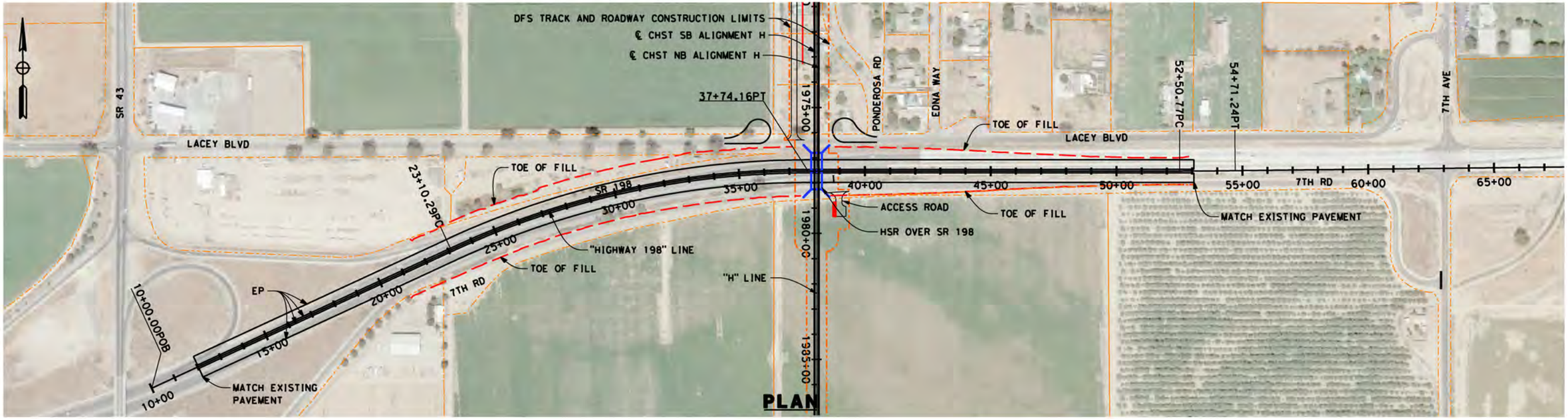

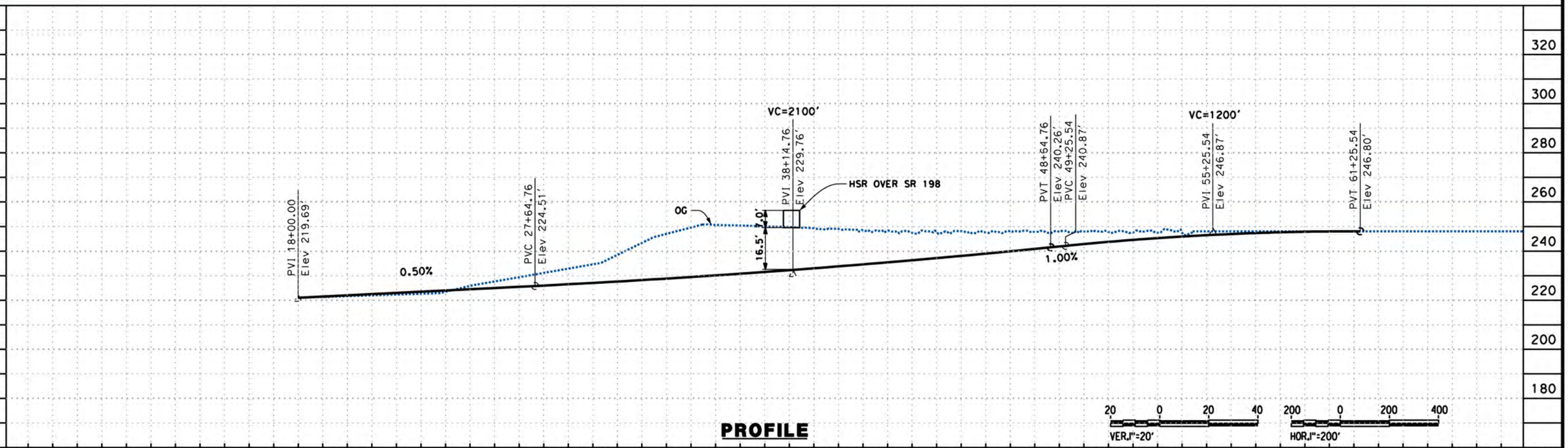

PROFILE

DISCLAIMER:
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DESIGNED BY F. DELAPAZ
DRAWN BY S. PARTINGTON
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT SR-198
STA. 18+65 TO 56+27
ATC17 PLAN AND PROFILE

ATC 17

CONTRACT NO. HSR 06-0003
DRAWING NO. T3110
SCALE AS SHOWN
SHEET NO.

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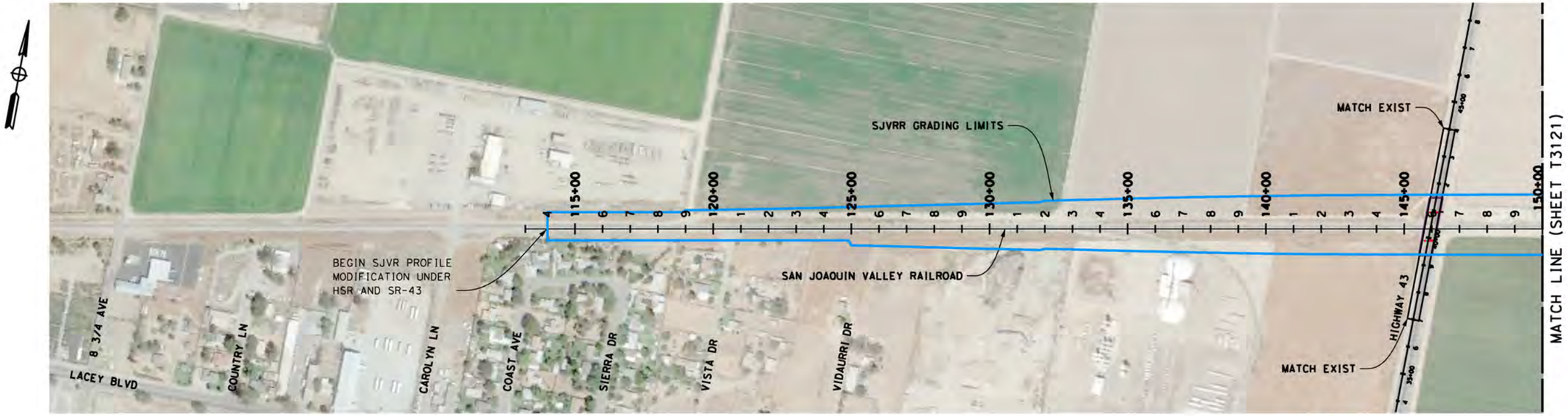
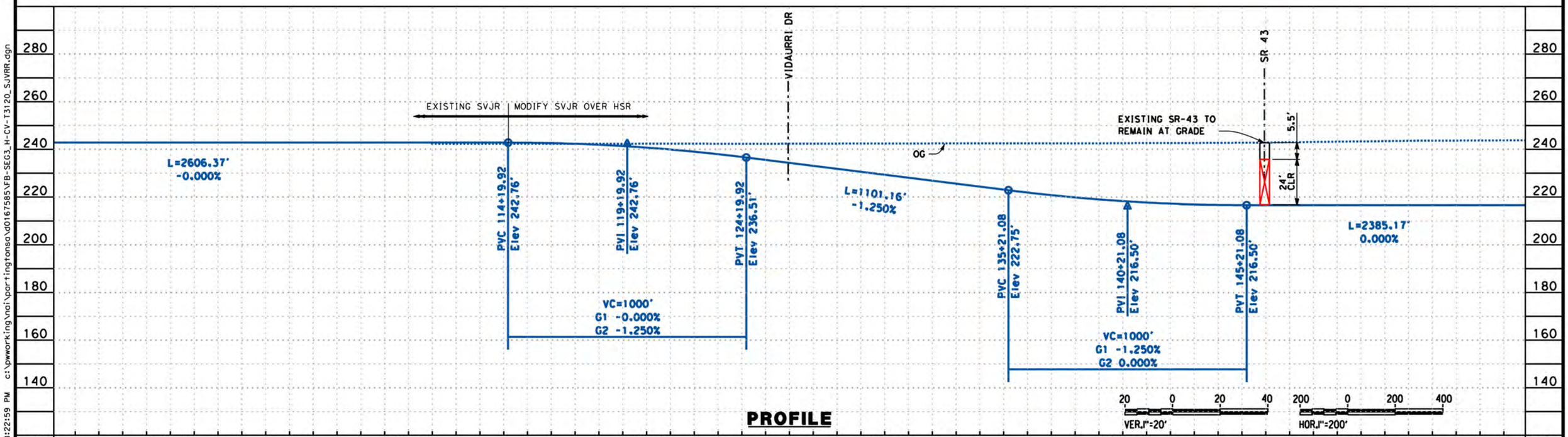


PLAN

NOTE:
1. THE PROPOSED RIGHT-OF-WAY SHOWN IS ESTIMATED.



PROFILE

DISCLAIMER:
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DESIGNED BY A. ROJO
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT SJVR
STA. 113+20 TO 150+00
PLAN AND PROFILE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3120
SCALE AS SHOWN
SHEET NO.

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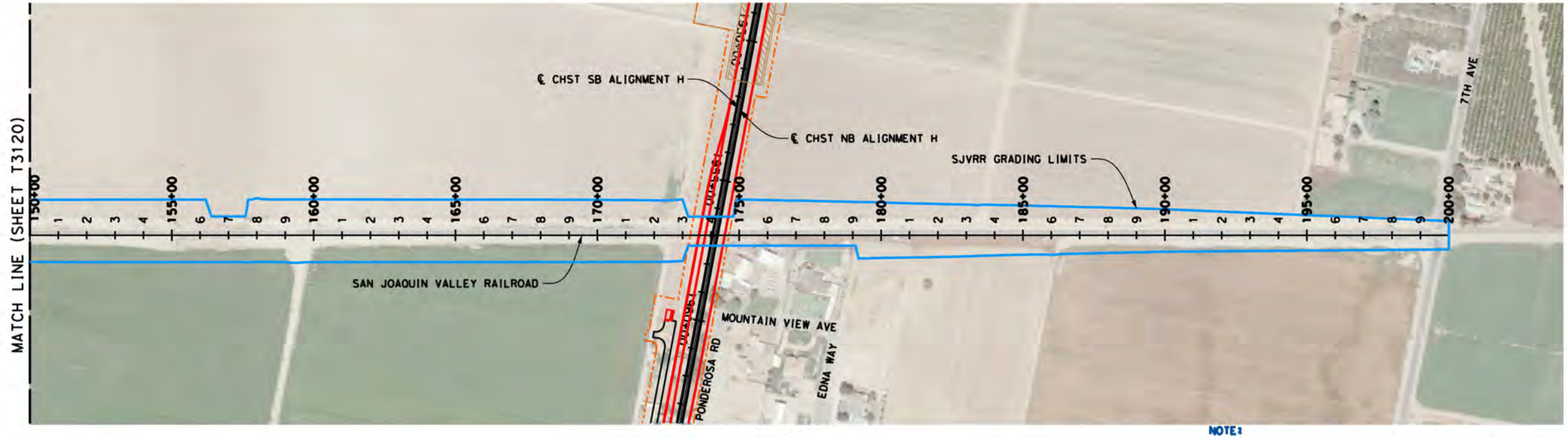
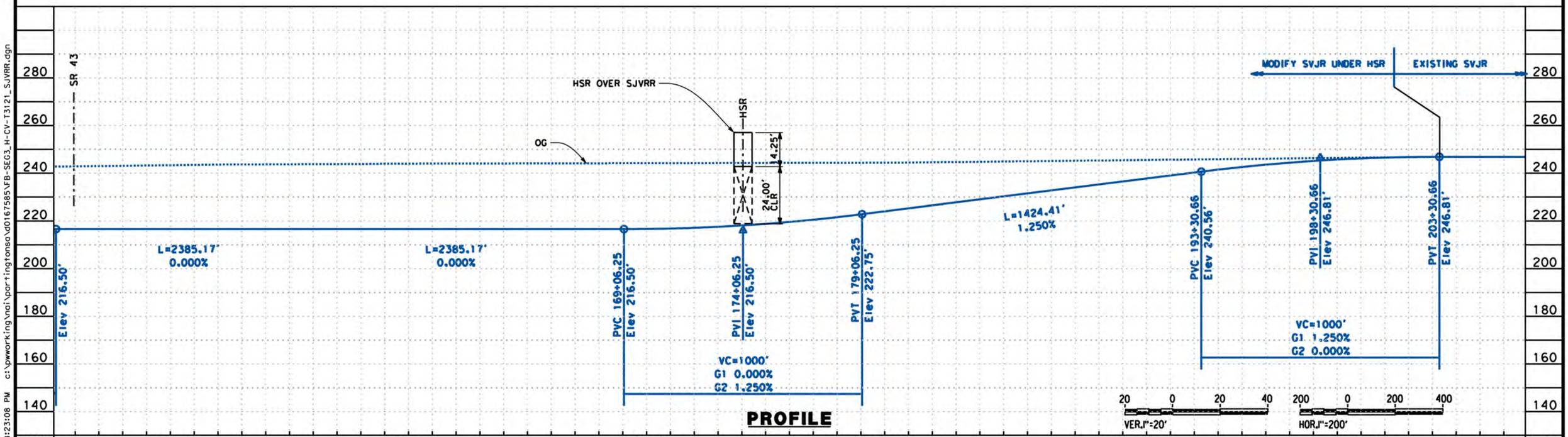


PLAN

NOTE:
1. THE PROPOSED RIGHT-OF-WAY SHOWN IS ESTIMATED.



PROFILE

STATION	150+00	160+00	170+00	180+00	190+00	200+00	TOTAL
CY Exc							
CY Emb							

DISCLAIMER:
THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE HSR AND ROADWAY DESIGN ENHANCEMENTS. DRAINAGE, UTILITIES, AND IRRIGATION CANALS ARE NOT SHOWN. THE HSR PROFILE IS BASED ON DRAINAGE AND WILDLIFE CROSSINGS IN THE RFP DESIGN AND THE DFS PROPOSED ATC DESIGNS AS SUBMITTED AND ACCEPTED BY THE AUTHORITY. THIS DOCUMENT AND ASSOCIATED ENGINEERING DETAILS REFLECT PRELIMINARY SCHEMATIC-LEVEL DESIGN ONLY. THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION.

DESIGNED BY A. ROJO
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT SJVR
STA. 150+00 TO 200+00
PLAN AND PROFILE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3121
SCALE AS SHOWN
SHEET NO. 02 OF 03

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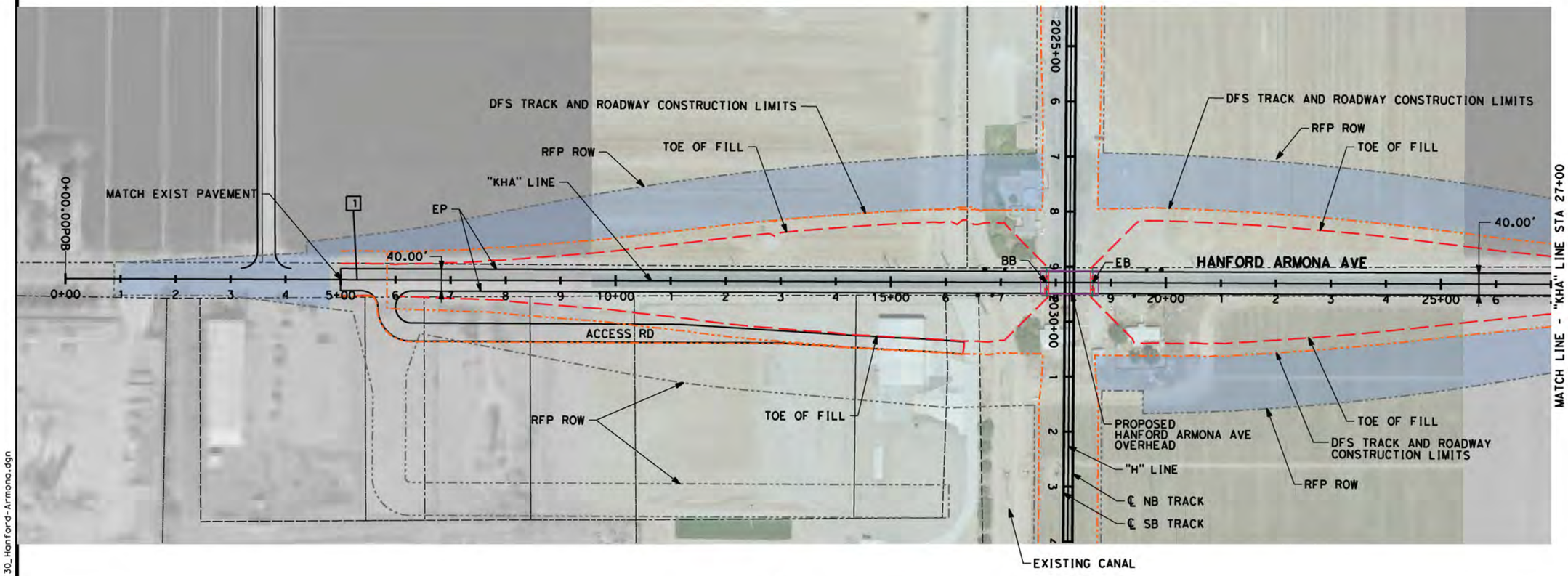

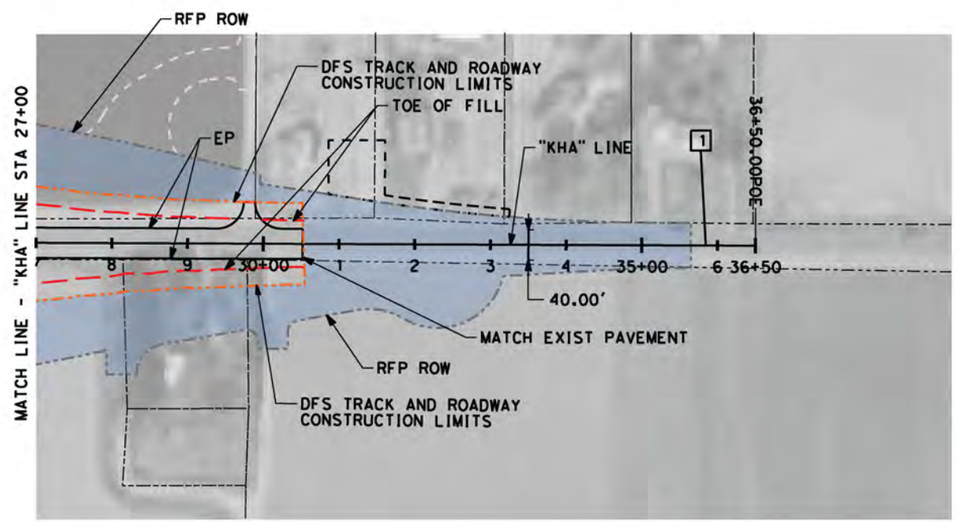

LINE DATA

NO.	BEARING	DISTANCE
1	S89°52'53"E	3650.00'

100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

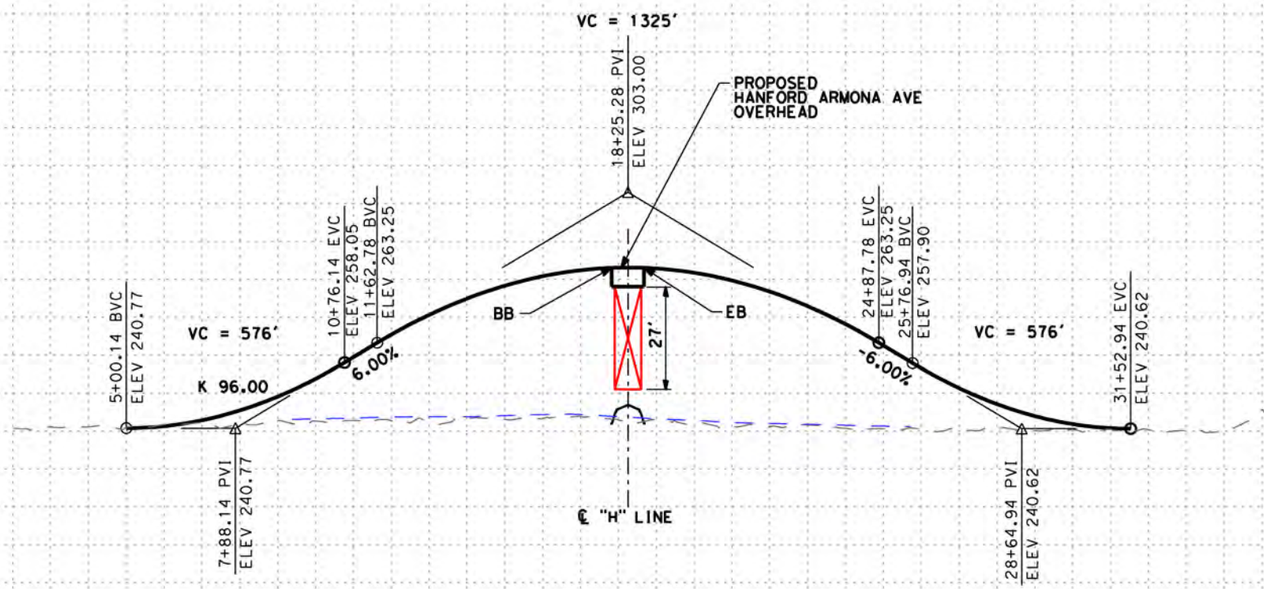
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
HANFORD ARMONA AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3130
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:23:35 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG3_H-CV-T3130_Hanford-Armona.dgn



PROFILE

"KHA" LINE

SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	0	2	4	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	TOTAL
CY Exc																														
CY Emb																														

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
HANFORD ARMONA AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3131
SCALE AS SHOWN
SHEET NO. - OF -

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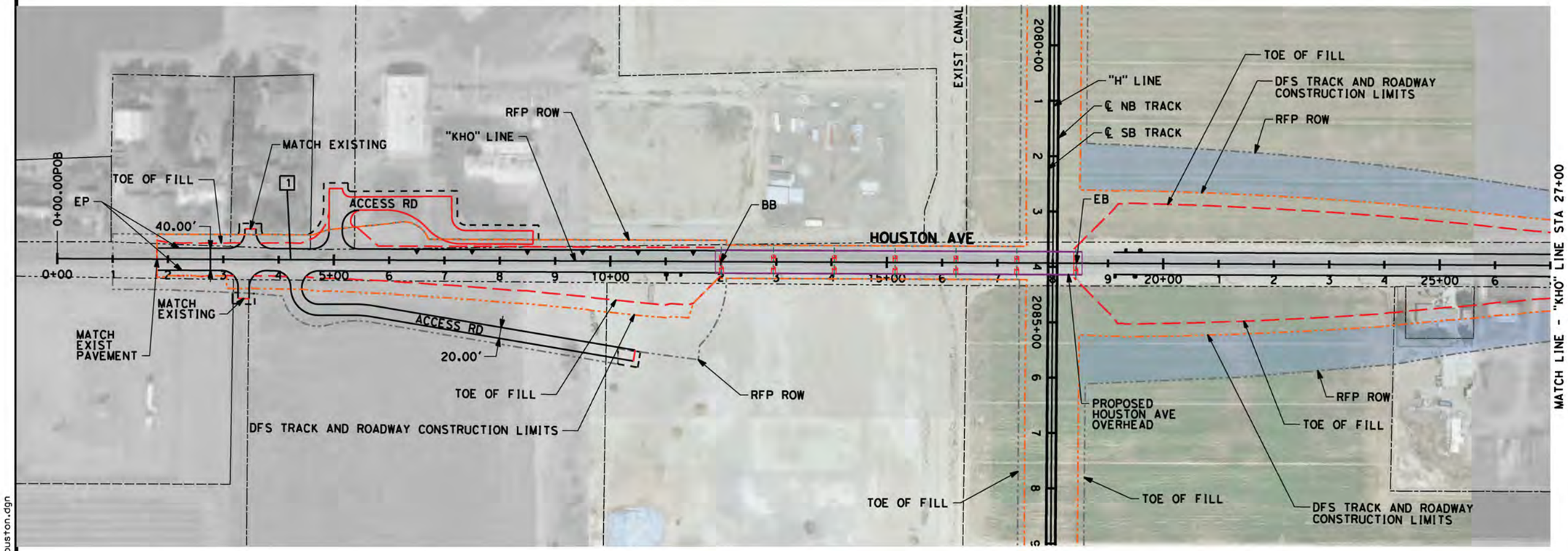

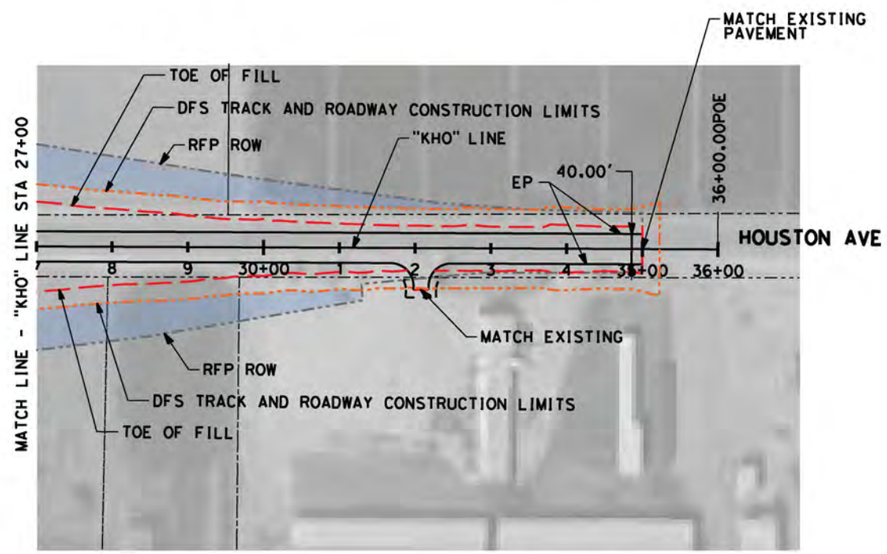

LINE DATA

NO.	BEARING	DISTANCE
1	S89°51'12"E	3600.00'

100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
HOUSTON AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3140
SCALE AS SHOWN
SHEET NO. - OF -

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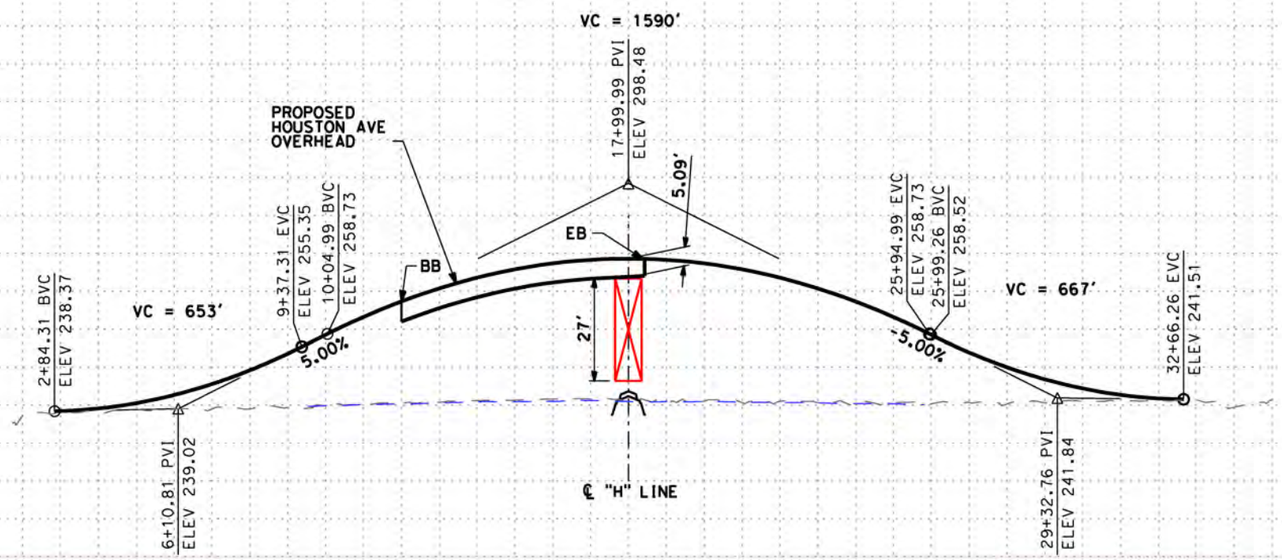

PROFILE
"KHO" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	0	2	4	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	TOTAL
CY Exc																														
CY Emb																														

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/2//14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
HOUSTON AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3141
SCALE AS SHOWN
SHEET NO. - OF -

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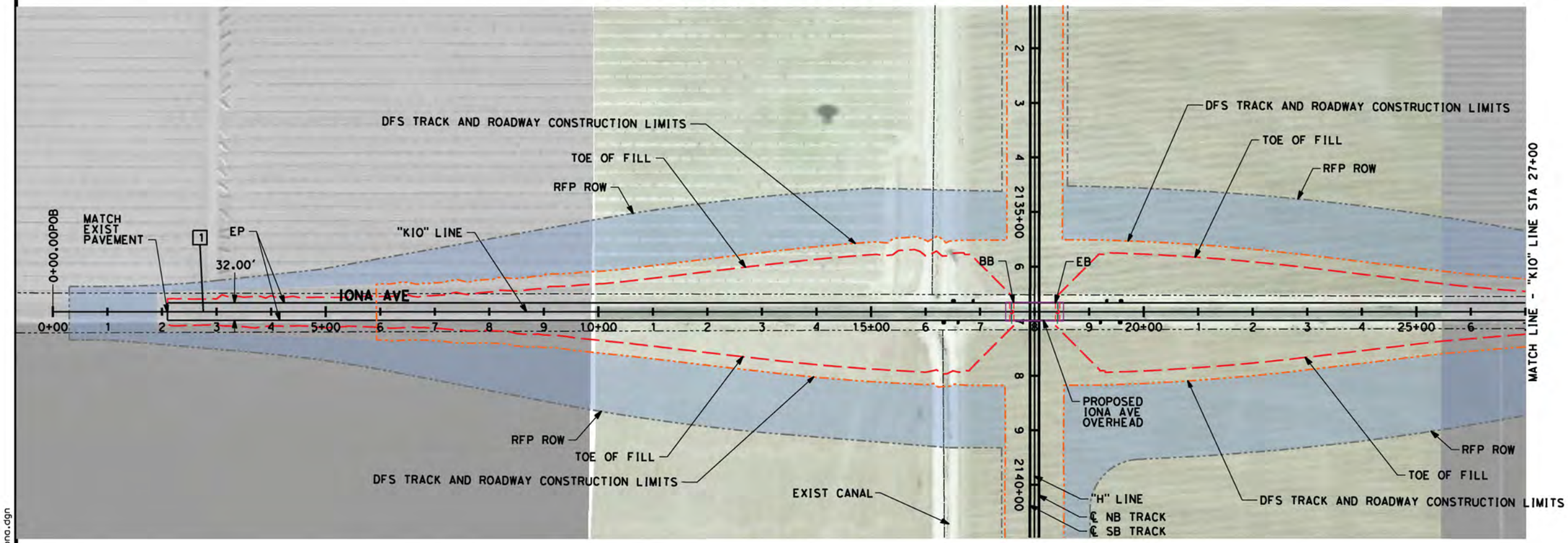
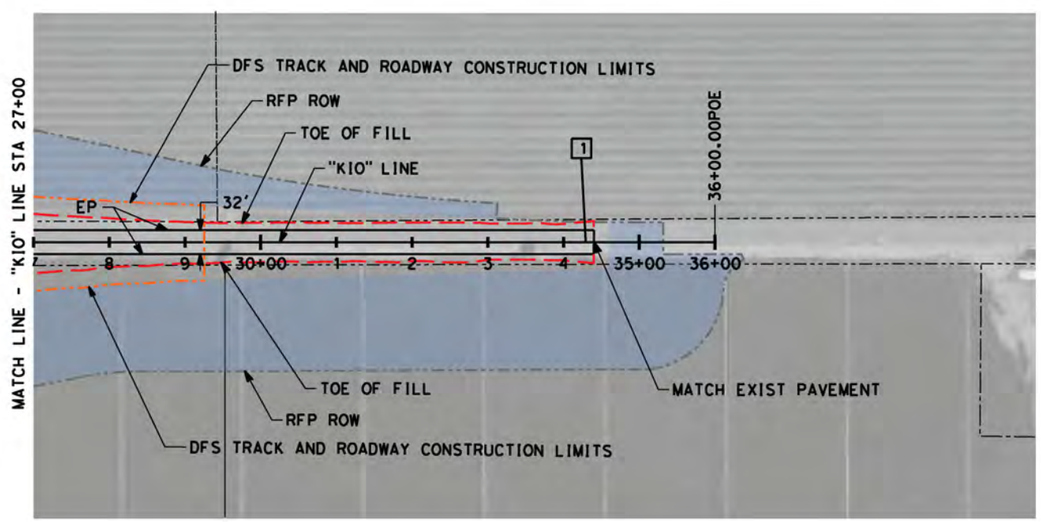




LINE DATA

NO.	BEARING	DISTANCE
1	S89°45'10"E	3600.00'

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE HSR AND ROADWAY DESIGN ENHANCEMENTS. DRAINAGE, UTILITIES, AND IRRIGATION CANALS ARE NOT SHOWN. THE HSR PROFILE IS BASED ON DRAINAGE AND WILDLIFE CROSSINGS IN THE RFP DESIGN AND THE DFS PROPOSED ATC DESIGNS AS SUBMITTED AND ACCEPTED BY THE AUTHORITY. THIS DOCUMENT AND ASSOCIATED ENGINEERING DETAILS REFLECT PRELIMINARY SCHEMATIC-LEVEL DESIGN ONLY. THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION.

DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

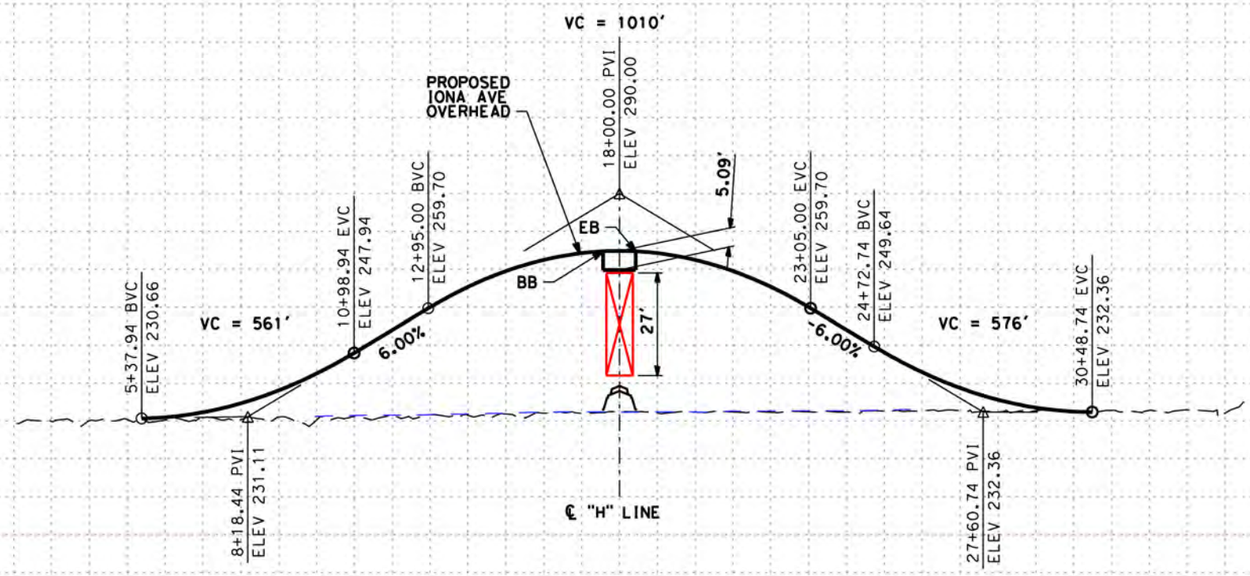
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION LAYOUT
IONA AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T3150
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:25:59 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG3_H-CV-T3150_Iona.dgn



PROFILE
"K10" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	0	2	4	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	TOTAL
CY Exc																														
CY Emb																														

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

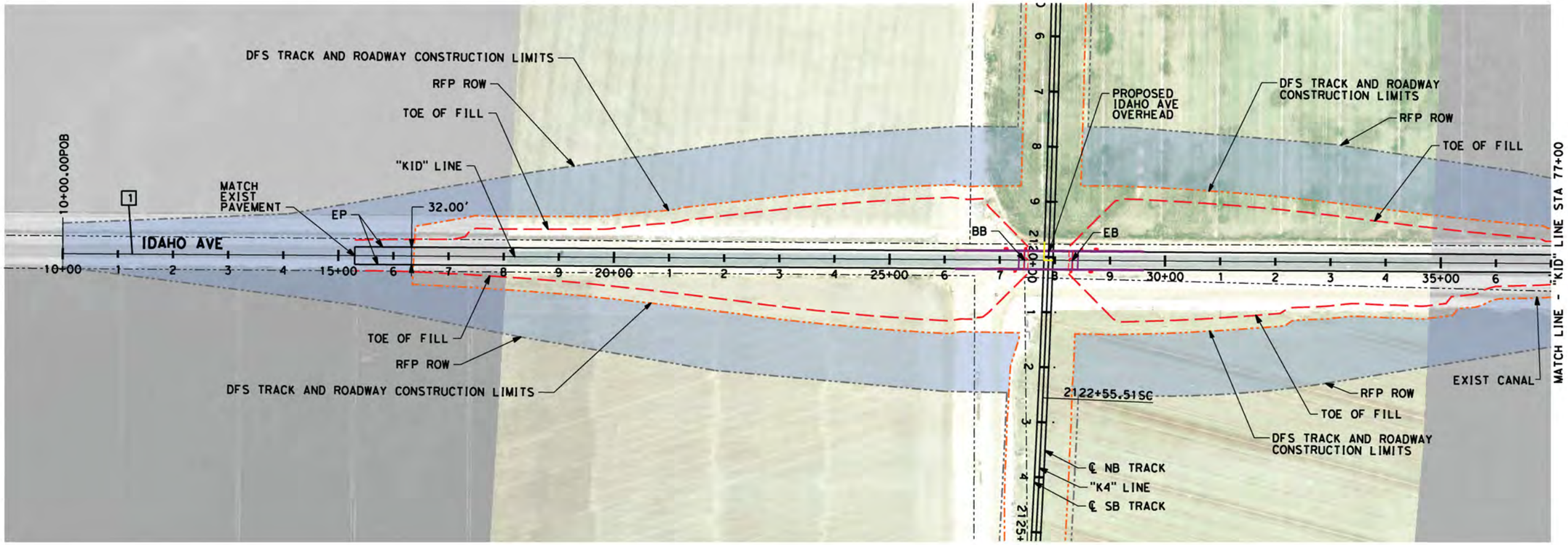
DFS

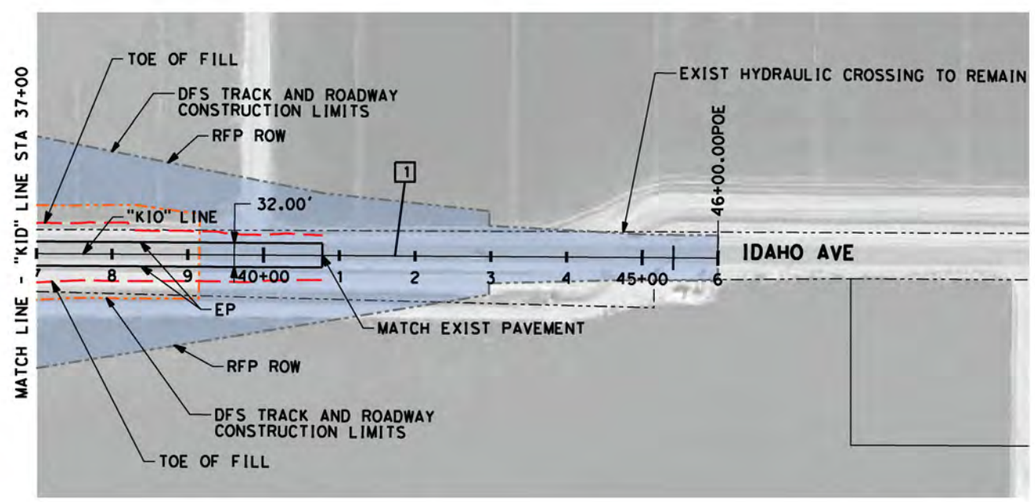
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
GRADE SEPARATION PROFILE
IONA AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T3151
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:26:34 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG3_H-CV-T3151_Iona_Pro.dgn





LINE DATA

NO.	BEARING	DISTANCE
1	S 89°43'34" E	3600.00'

100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
IDAHO AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T4010
SCALE AS SHOWN
SHEET NO. - OF -

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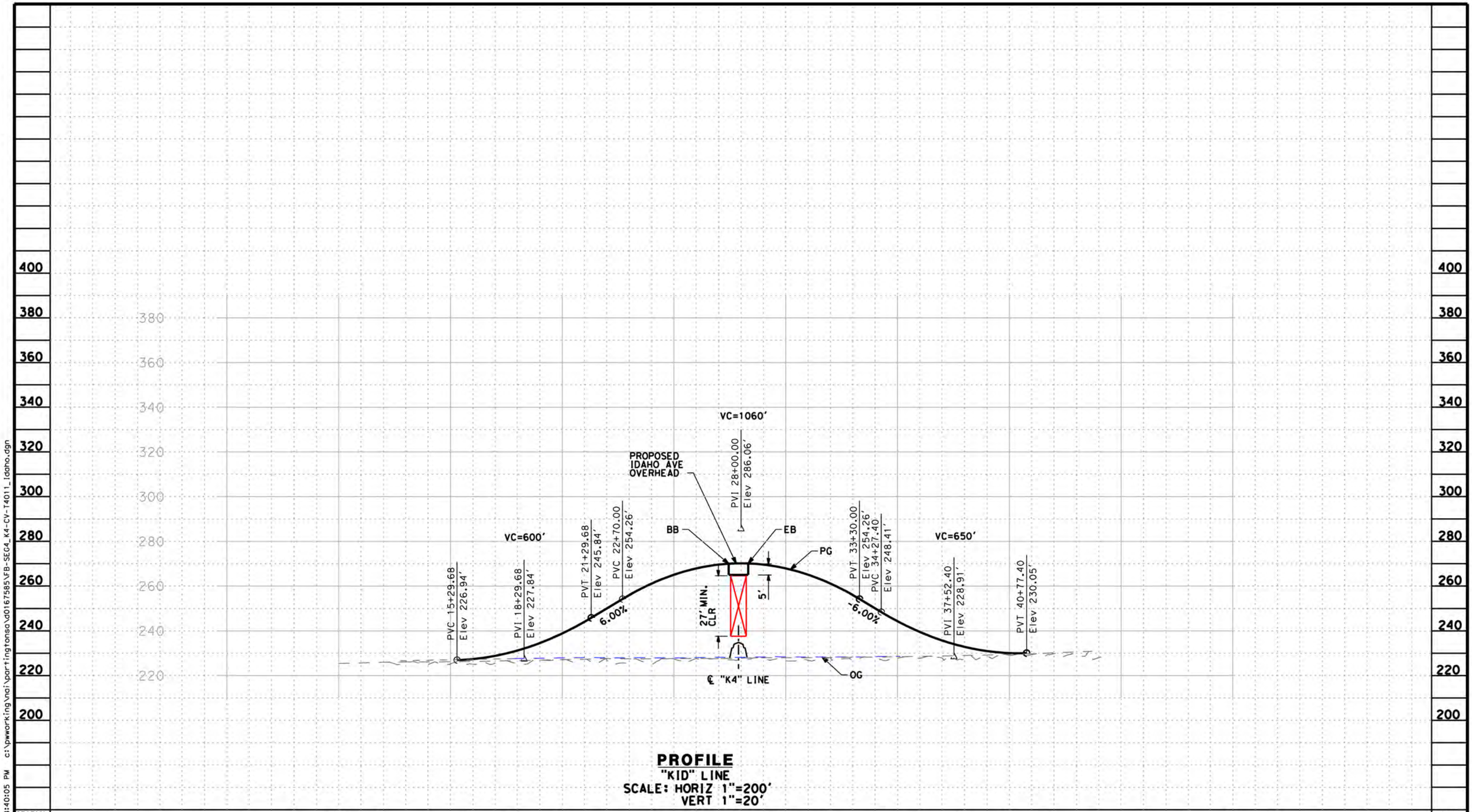

PROFILE

"KID" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	0	2	4	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	TOTAL
CY Exc																														
CY Emb																														

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 7/2/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION PROFILE
IDAHO AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T4011
SCALE AS SHOWN
SHEET NO. - OF -

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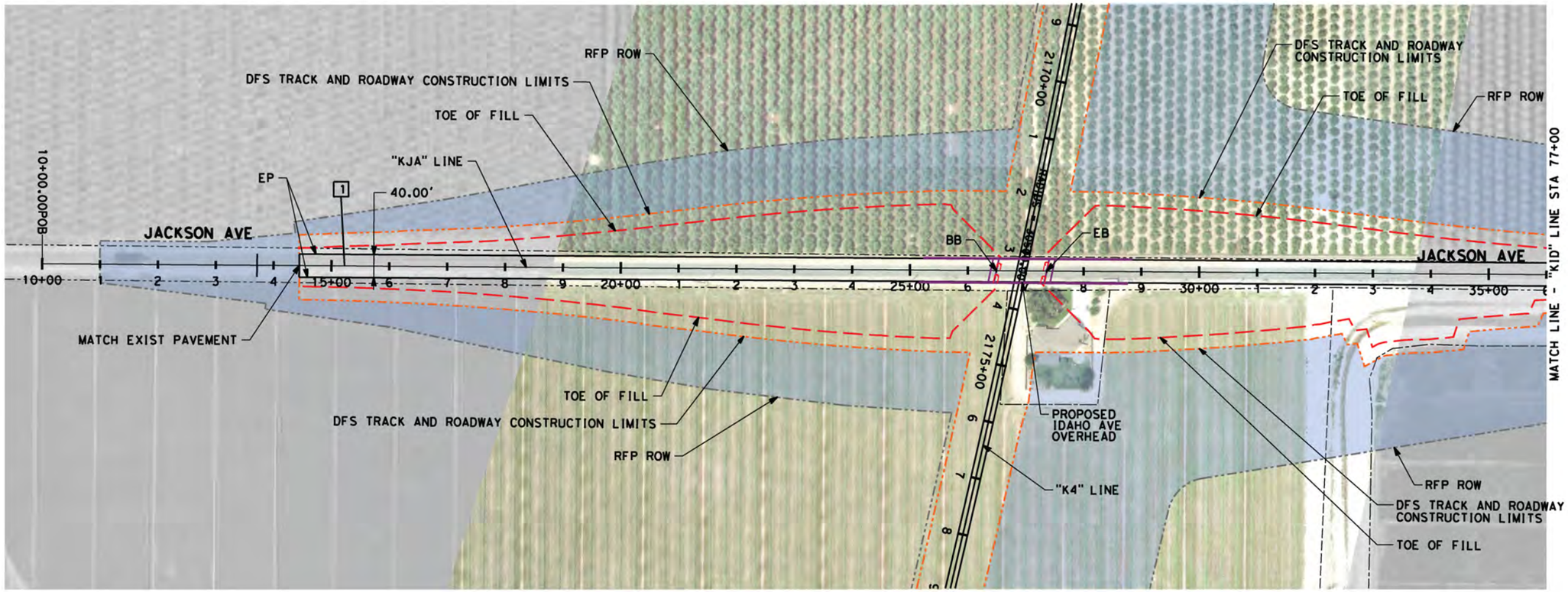

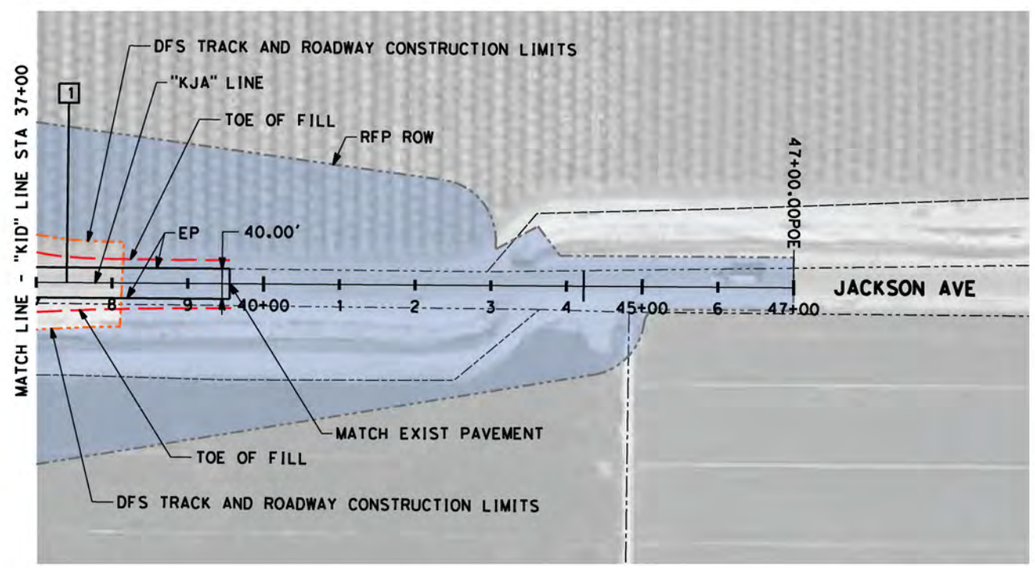

LINE DATA

NO.	BEARING	DISTANCE
1	S 89°41'46" E	3700.00'

100 0 100 200
SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
JACKSON AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T4020
SCALE AS SHOWN
SHEET NO. - OF -

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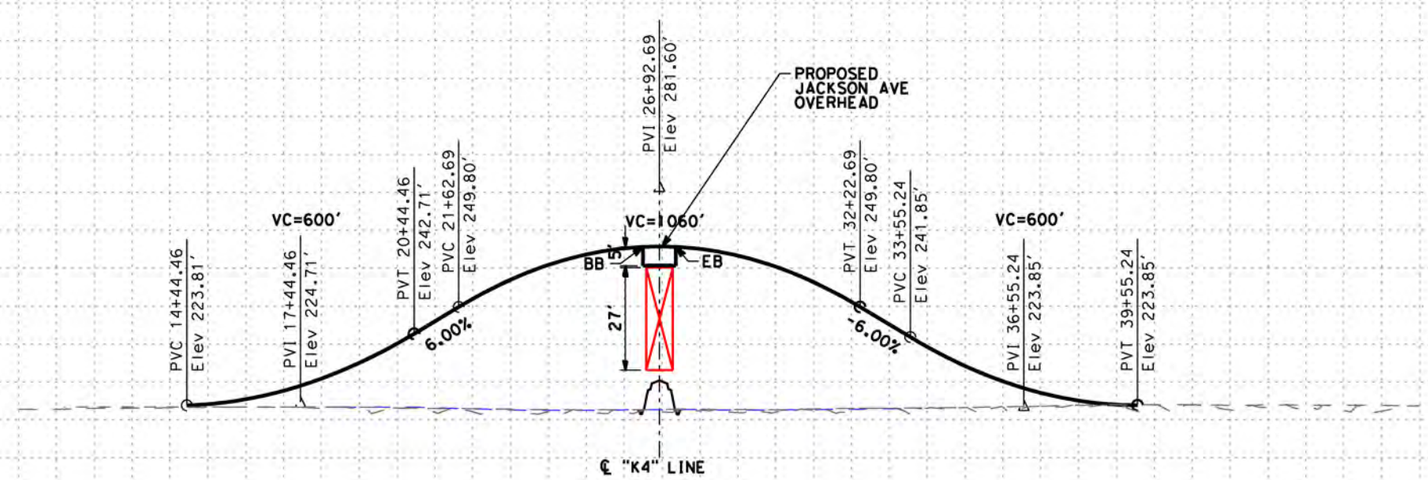

PROFILE

"KJA" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	0	2	4	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	TOTAL
CY Exc																														
CY Emb																														

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 7/2/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION PROFILE
JACKSON AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T4021
SCALE AS SHOWN
SHEET NO. - OF -

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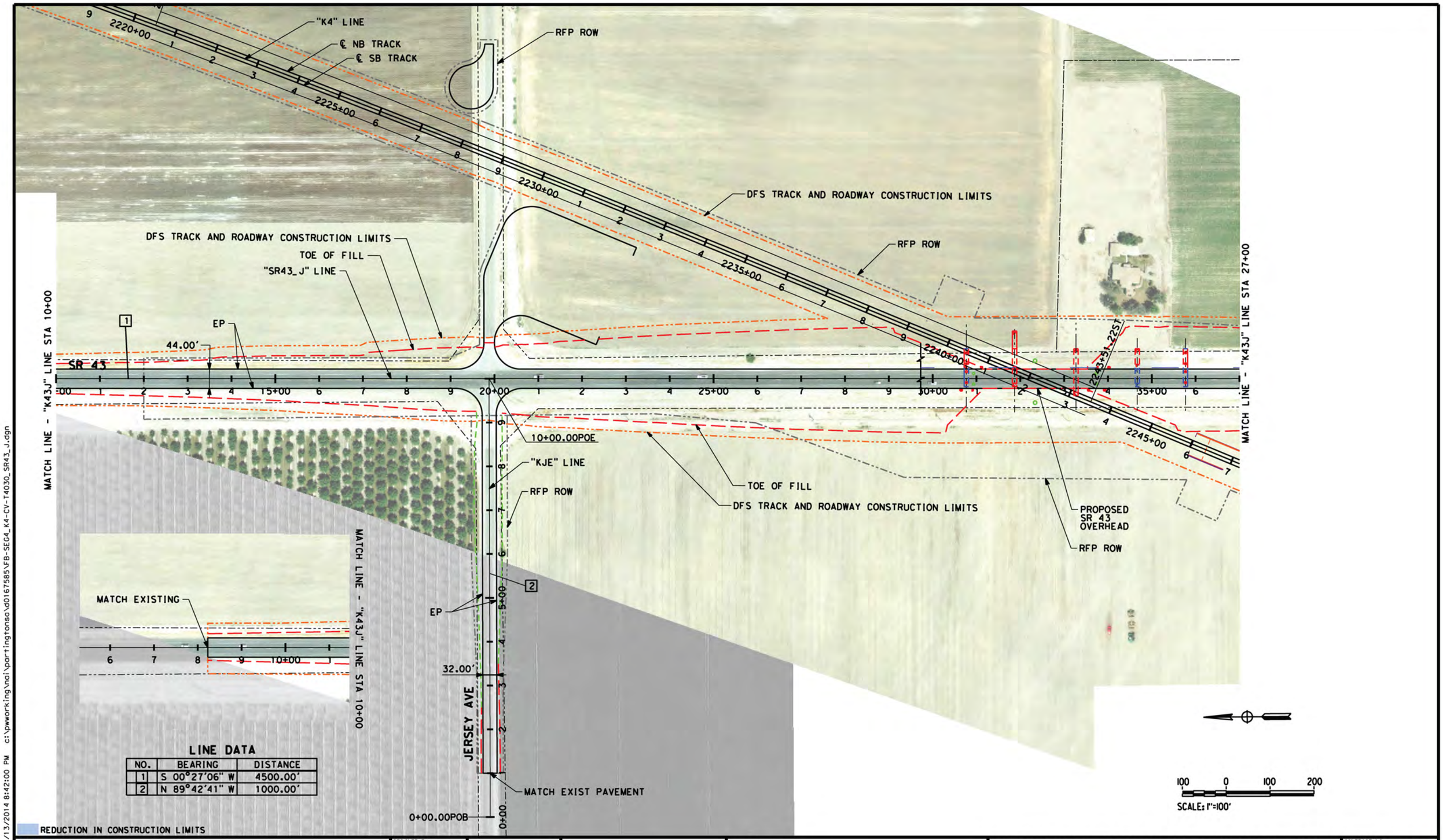

LINE DATA

NO.	BEARING	DISTANCE
1	S 00°27'06" W	4500.00'
2	N 89°42'41" W	1000.00'

DISCLAIMER:
THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE HSR AND ROADWAY DESIGN ENHANCEMENTS. DRAINAGE, UTILITIES, AND IRRIGATION CANALS ARE NOT SHOWN. THE HSR PROFILE IS BASED ON DRAINAGE AND WILDLIFE CROSSINGS IN THE RFP DESIGN AND THE DFS PROPOSED ATC DESIGNS AS SUBMITTED AND ACCEPTED BY THE AUTHORITY. THIS DOCUMENT AND ASSOCIATED ENGINEERING DETAILS REFLECT PRELIMINARY SCHEMATIC-LEVEL DESIGN ONLY. THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION.

DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
SR 43 AND JERSEY AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T4030
SCALE AS SHOWN
SHEET NO. - OF -

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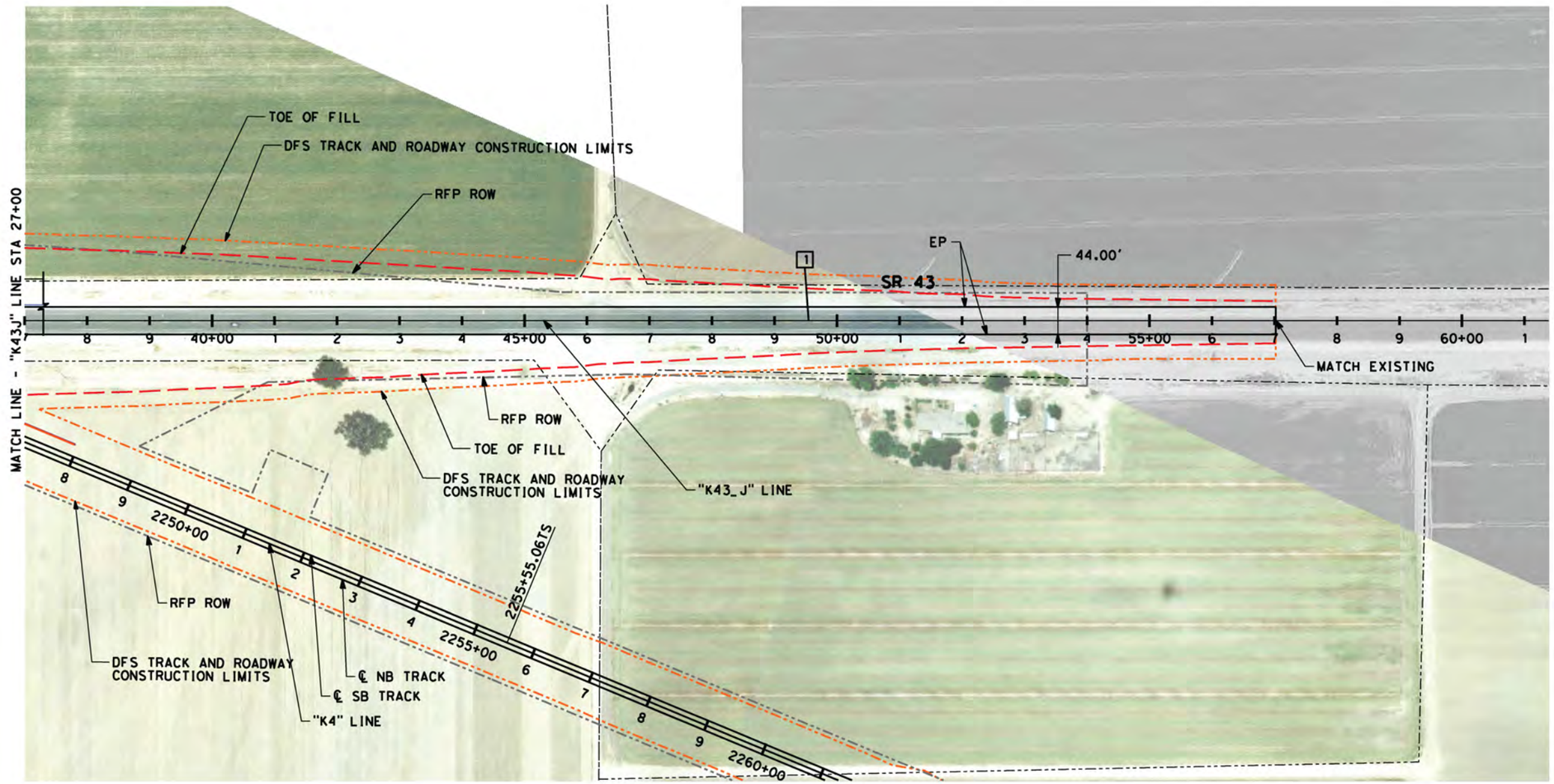

LINE DATA

NO.	BEARING	DISTANCE
1	S 00°27'06" W	4500.00'

100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

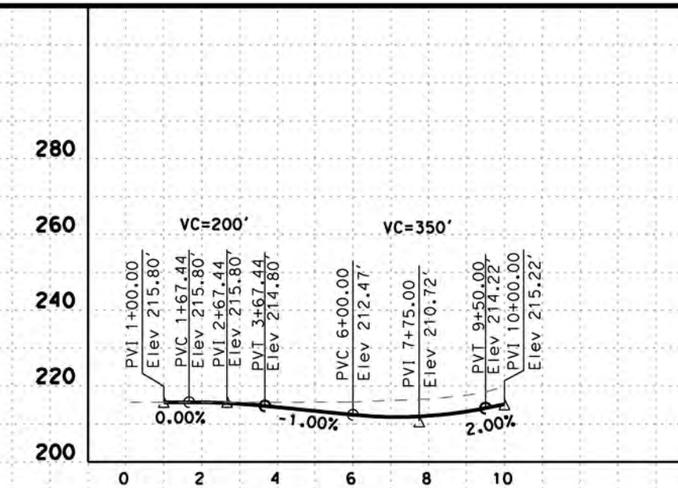
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

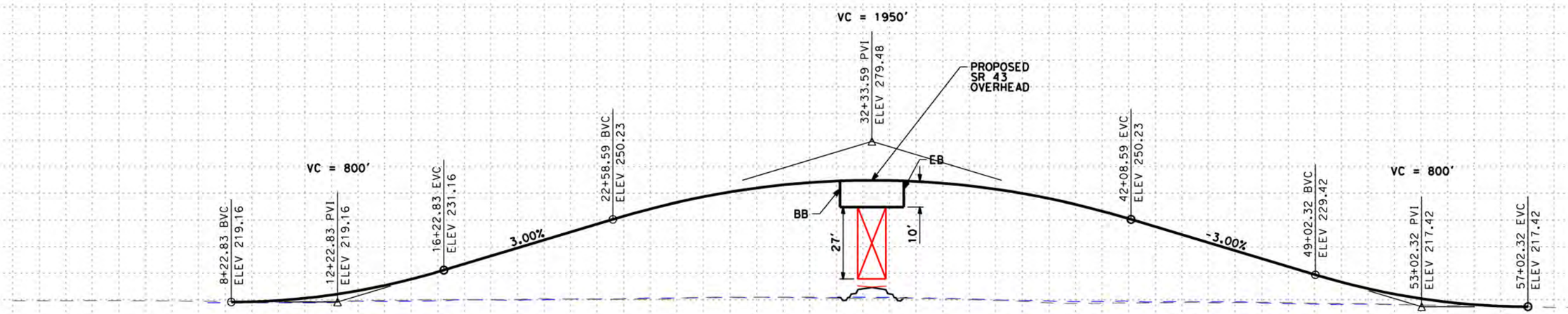
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
STATE ROUTE 43

CONTRACT NO. HST 06-0003
DRAWING NO. T4031
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:42:15 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG4_K4-CV-T4031_SR43_J.dgn



PROFILE
"KJE" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'



PROFILE
"SR43_J" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION		0	2	4	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	TOTAL
CY	Exc																														
	Emb																														

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 7/2/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION PROFILE
STATE ROUTE 43 AND JERSEY AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T4032
SCALE AS SHOWN
SHEET NO. - OF -

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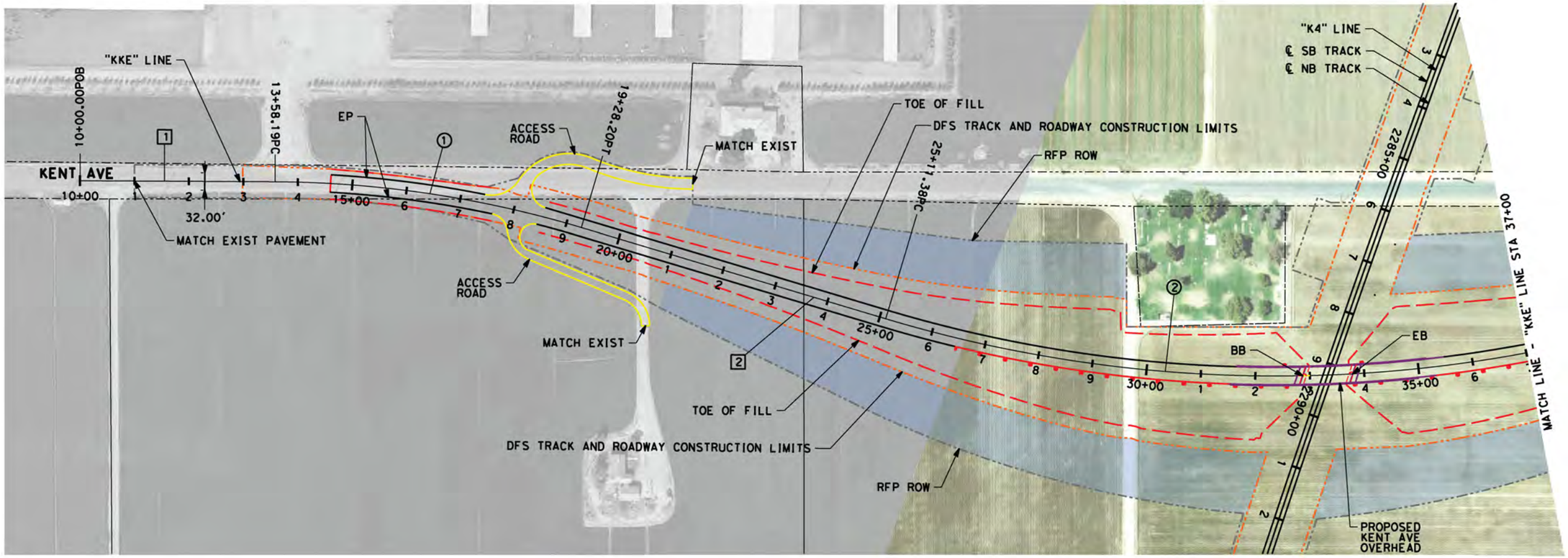

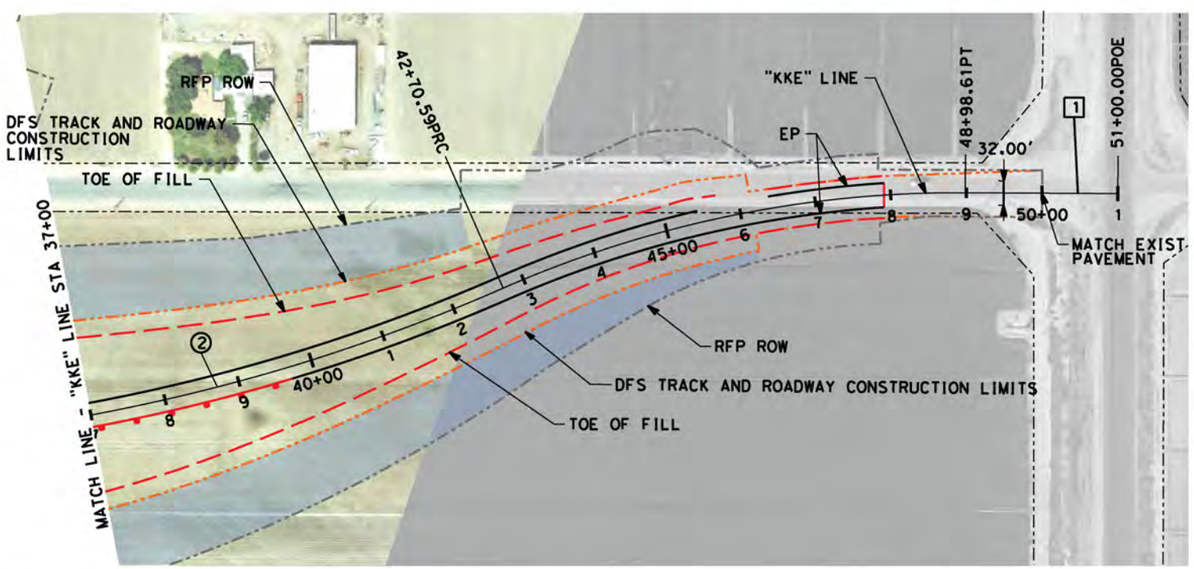

LINE DATA

NO.	BEARING	DISTANCE
1	S 89°46'22" E	358.19'
2	S 73°26'35" E	583.18'

CURVE DATA

NO.	R	Δ	T	L
1	2000.00'	16°19'46"	286.95'	570.01'
2	2500.00'	40°19'05"	917.79'	1759.21'

100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
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NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
KENT AVE

CONTRACT NO. HST 06-0003
DRAWING NO. T4040
SCALE AS SHOWN
SHEET NO. - OF -

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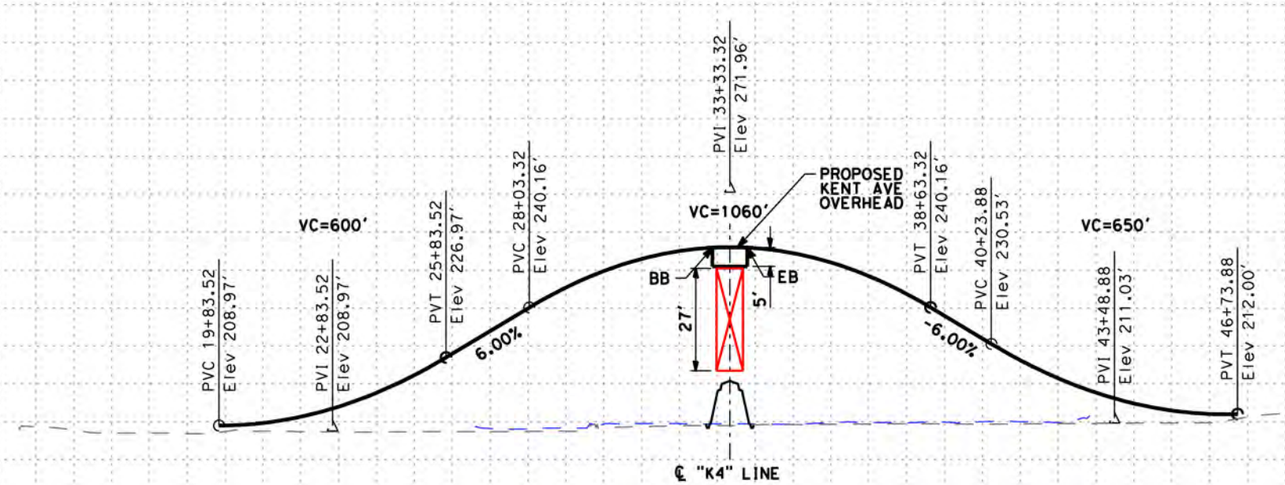

PROFILE

"KKE" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	0	2	4	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	TOTAL
CY Exc																														
CY Emb																														

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 7/2/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION PROFILE
KENT AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T4041
SCALE AS SHOWN
SHEET NO. - OF -

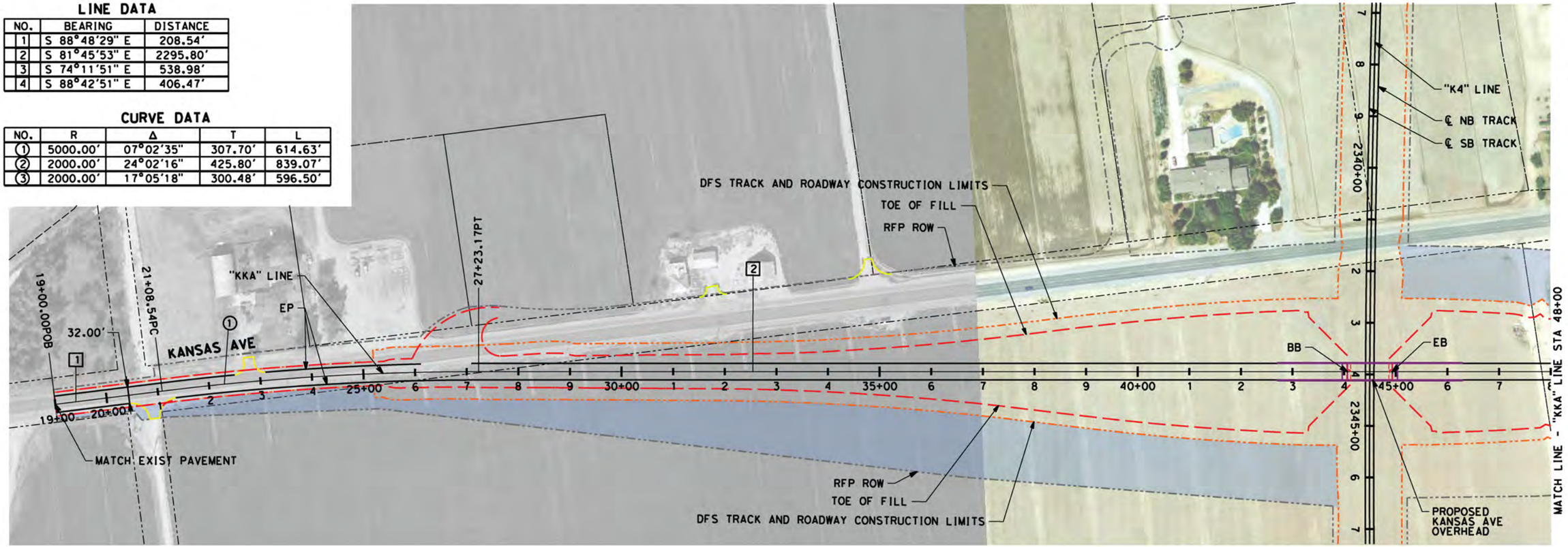
partingtonsa 10/13/2014 8:43:38 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG4_K4-CV-T4041_Kent.dgn

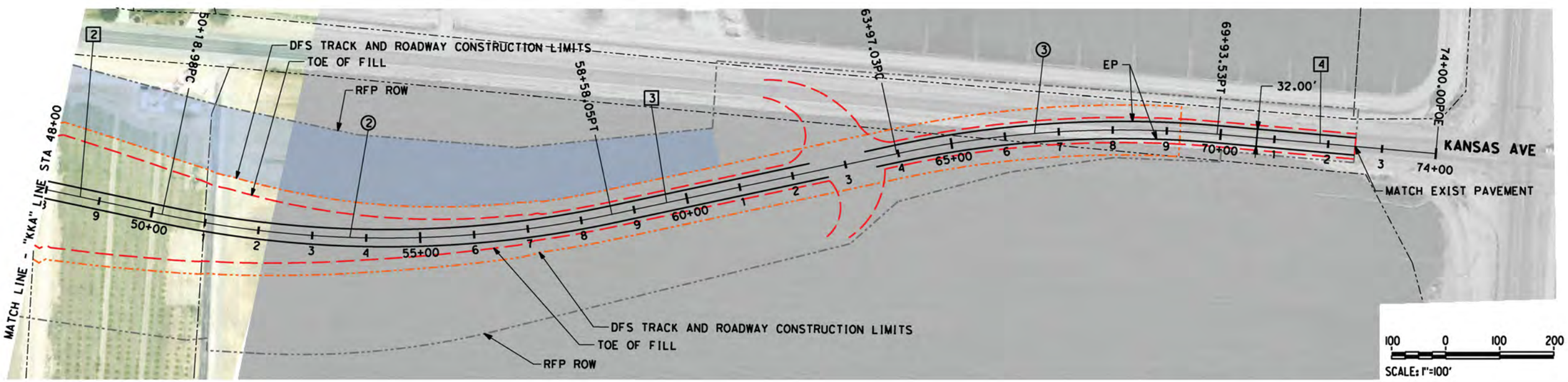
LINE DATA

NO.	BEARING	DISTANCE
1	S 88°48'29" E	208.54'
2	S 81°45'53" E	2295.80'
3	S 74°11'51" E	538.98'
4	S 88°42'51" E	406.47'

CURVE DATA

NO.	R	Δ	T	L
1	5000.00'	07°02'35"	307.70'	614.63'
2	2000.00'	24°02'16"	425.80'	839.07'
3	2000.00'	17°05'18"	300.48'	596.50'





REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY	B. Kidd
DRAWN BY	Z. Rookhuyzen
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
KANSAS AVE

CONTRACT NO.	HST 06-0003
DRAWING NO.	T4050
SCALE	AS SHOWN
SHEET NO.	- OF -

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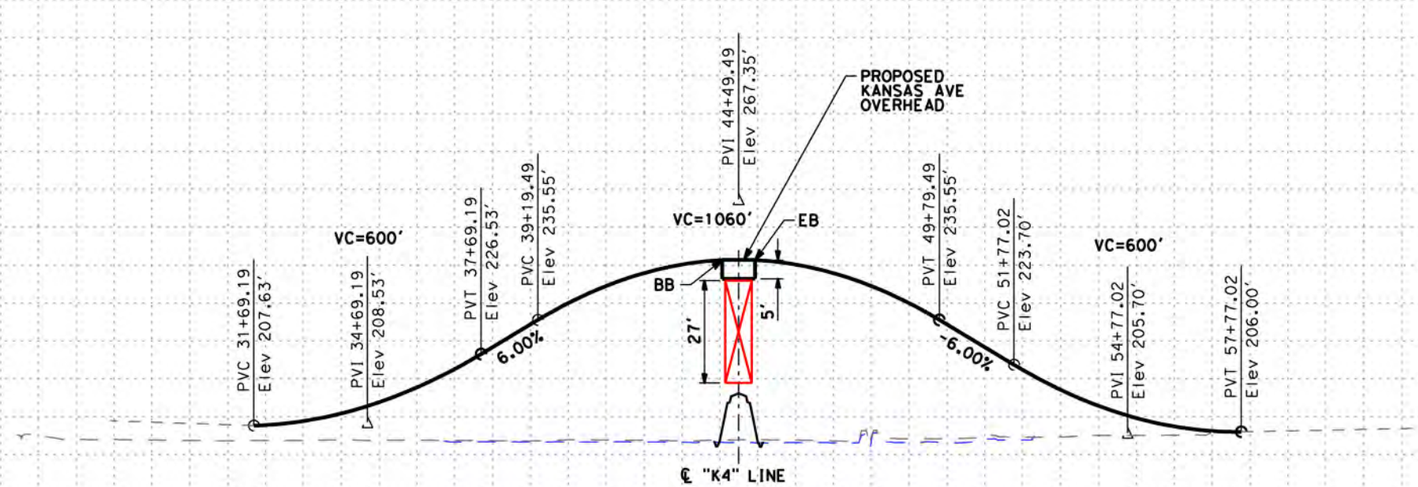

PROFILE
"KKA" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	8	60	2	4	6	8	70	TOTAL
CY Exc																														
CY Emb																														

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION PROFILE
KANSAS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. T4051
SCALE AS SHOWN
SHEET NO. - OF -

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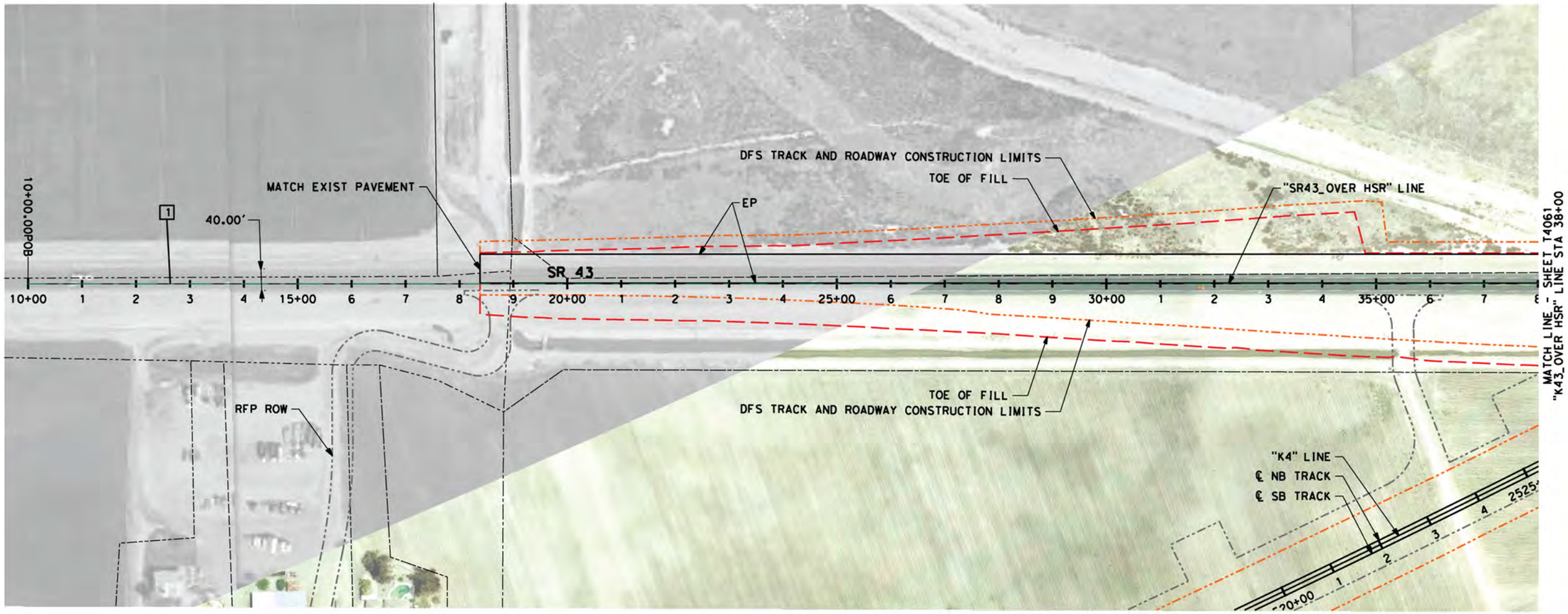

LINE DATA

NO.	BEARING	DISTANCE
1	S 01°08'41" W	3326.66'

100 0 100 200
SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 06/30/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

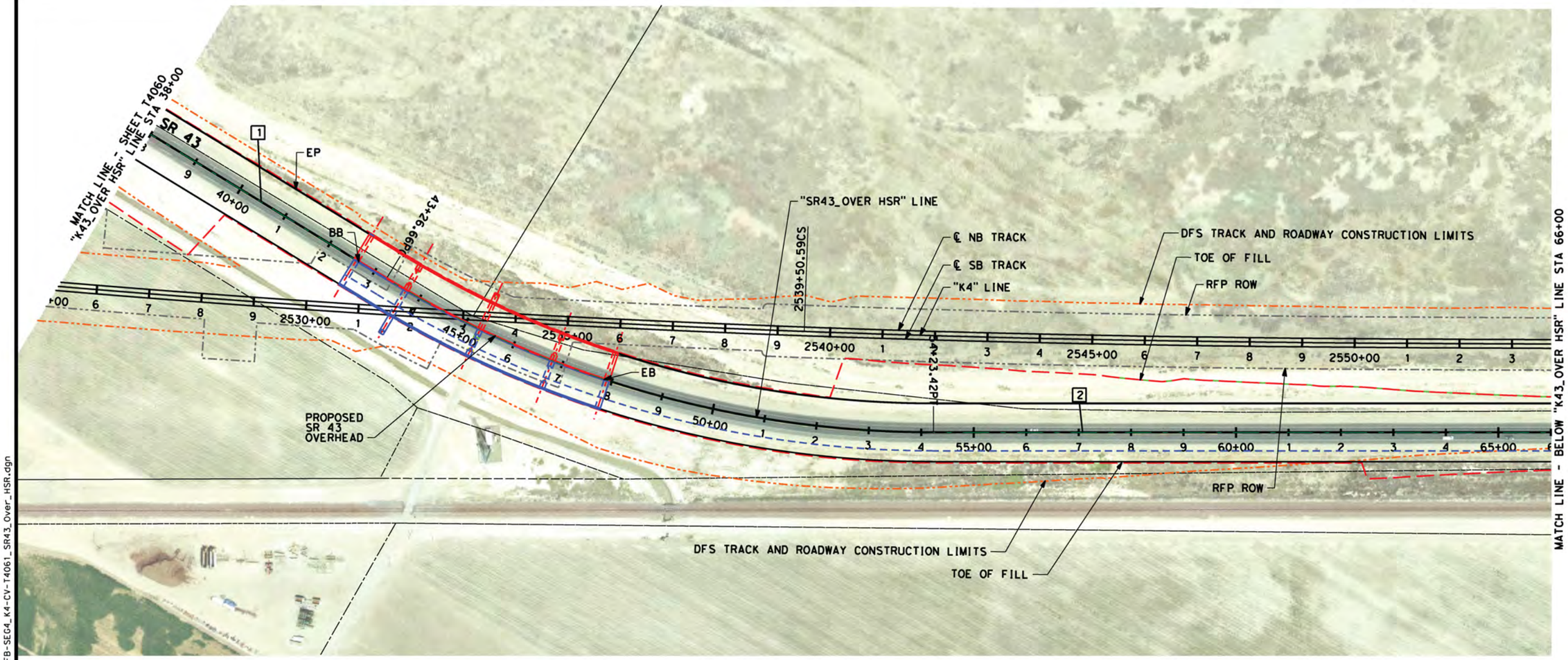
DFS

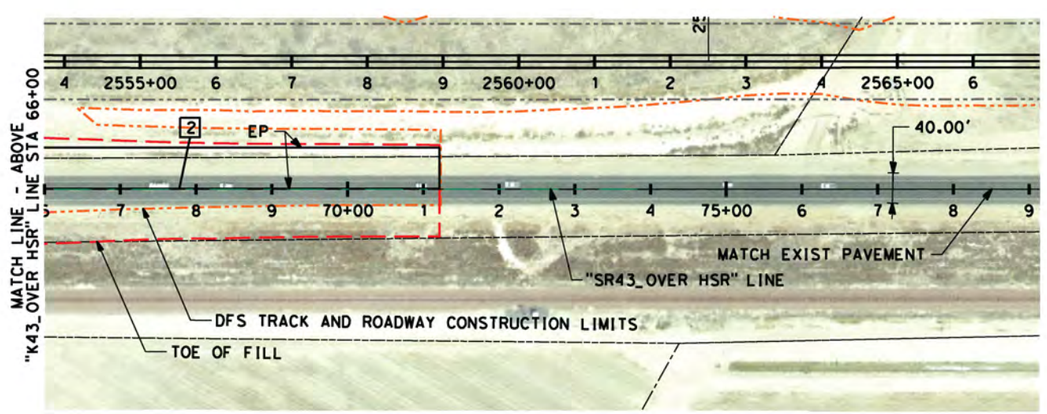
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
STATE ROUTE 43 OVER HSR

CONTRACT NO. HST 06-0003
DRAWING NO. T4060
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:45:10 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG4_K4-CV-T4060_SR43_Over_HSR.dgn





LINE DATA

NO.	BEARING	DISTANCE
1	S 01°08'41" W	3326.66'
2	S 30°16'31" E	2507.37'

CURVE DATA

NO.	R	Δ	T	L
1	2000.00'	31°25'12"	562.55'	1096.77'

100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 09/02/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

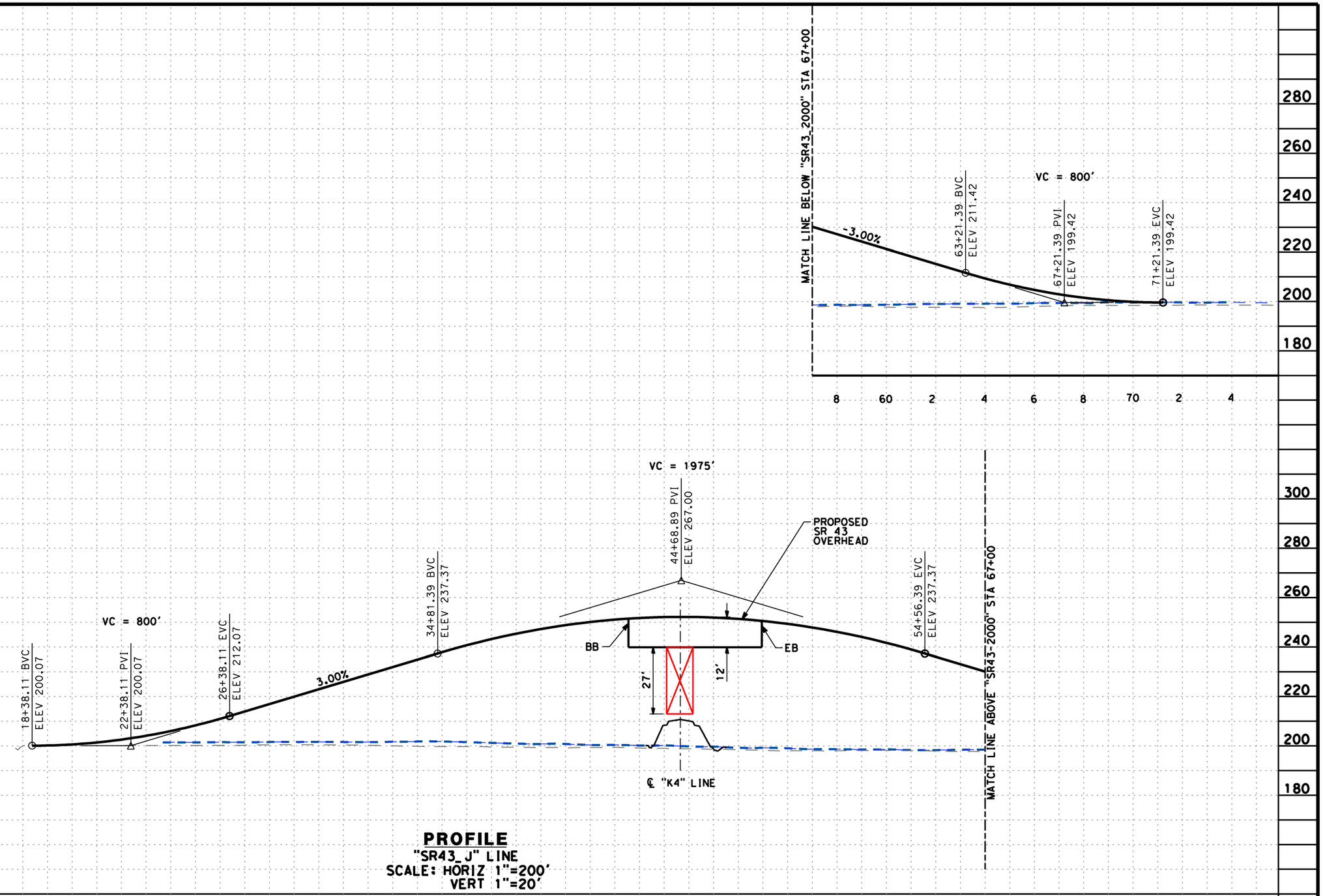
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION LAYOUT
STATE ROUTE 43 OVER HSR

CONTRACT NO. HST 06-0003
DRAWING NO. T4061
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:46:21 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG4_K4-CV-T4061_SR43_Over_HSR.dgn



PROFILE

"SR43_J" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION		10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	8	60	2	4	6	TOTAL
CY	Exc																														
	Emb																														

DISCLAIMER:
THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE HSR AND ROADWAY DESIGN ENHANCEMENTS. DRAINAGE, UTILITIES, AND IRRIGATION CANALS ARE NOT SHOWN. THE HSR PROFILE IS BASED ON DRAINAGE AND WILDLIFE CROSSINGS IN THE RFP DESIGN AND THE DFS PROPOSED ATC DESIGNS AS SUBMITTED AND ACCEPTED BY THE AUTHORITY. THIS DOCUMENT AND ASSOCIATED ENGINEERING DETAILS REFLECT PRELIMINARY SCHEMATIC-LEVEL DESIGN ONLY. THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION.

DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 09/03/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

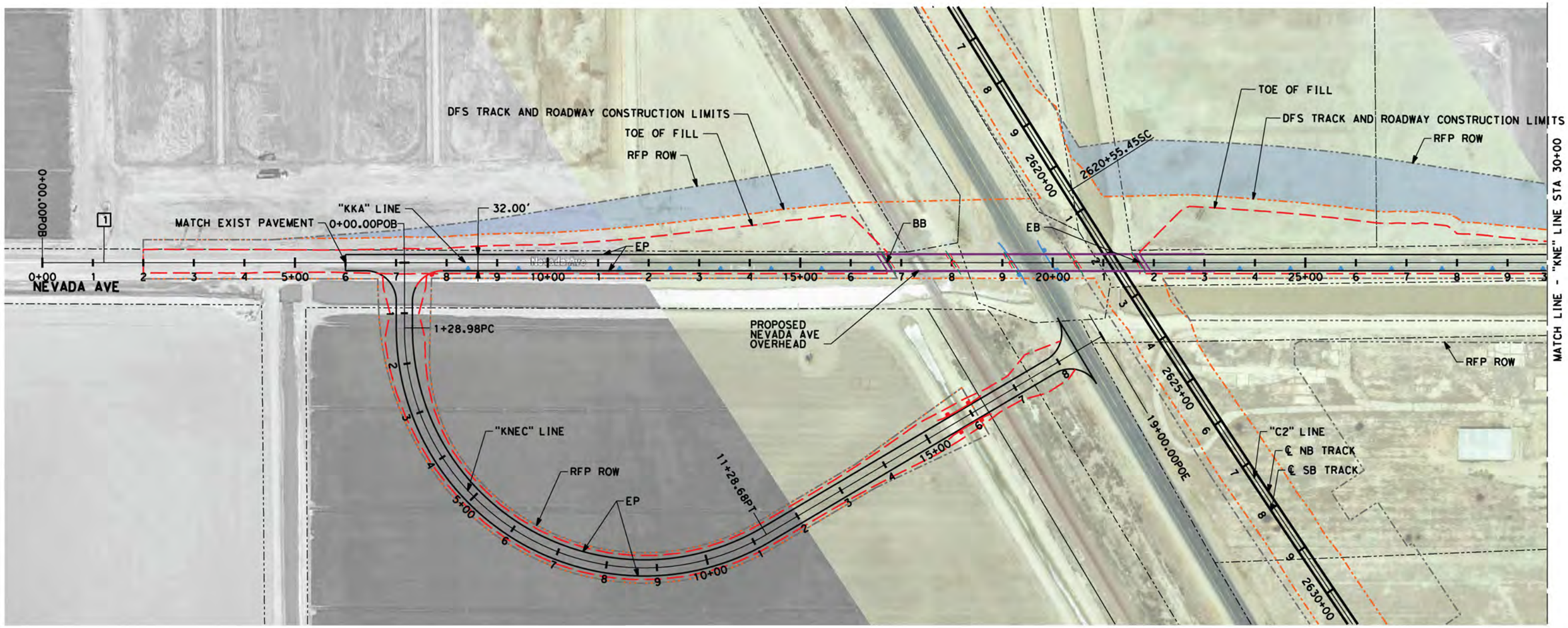
DFS

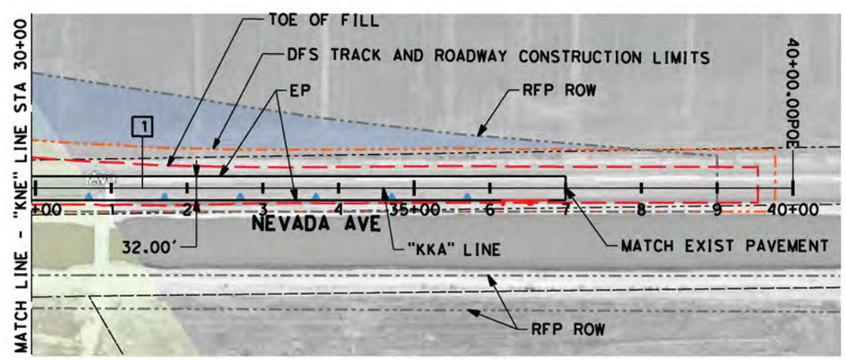
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
GRADE SEPARATION PROFILE
STATE ROUTE 43 OVER HSR

CONTRACT NO. HSR 06-0003
DRAWING NO. T4062
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/14/2014 10:24:07 AM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG4_K4-CV-T4062_SR43_OVER_HSR.dgn





LINE DATA

NO.	BEARING	DISTANCE
1	S 89°37'04" E	4000.00'

100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE HSR AND ROADWAY DESIGN ENHANCEMENTS. DRAINAGE, UTILITIES, AND IRRIGATION CANALS ARE NOT SHOWN. THE HSR PROFILE IS BASED ON DRAINAGE AND WILDLIFE CROSSINGS IN THE RFP DESIGN AND THE DFS PROPOSED ATC DESIGNS AS SUBMITTED AND ACCEPTED BY THE AUTHORITY. THIS DOCUMENT AND ASSOCIATED ENGINEERING DETAILS REFLECT PRELIMINARY SCHEMATIC-LEVEL DESIGN ONLY. THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION.

DESIGNED BY B. Kidd
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 06/30/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

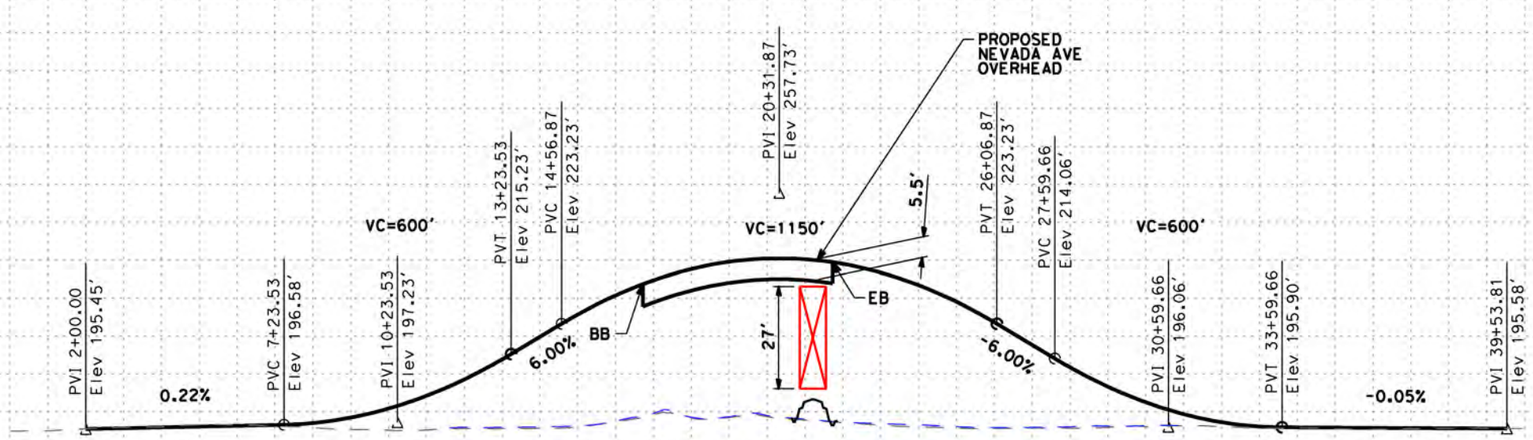
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C2
GRADE SEPARATION LAYOUT
NEVADA AVENUE

CONTRACT NO. HST 06-0003
DRAWING NO. T5010
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:46:54 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SE05_C2-CV-T5010_Nevada.dgn



PROFILE
"KNE" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	8	0	2	4	6	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	TOTAL
CY Exc																										
CY Emb																										

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

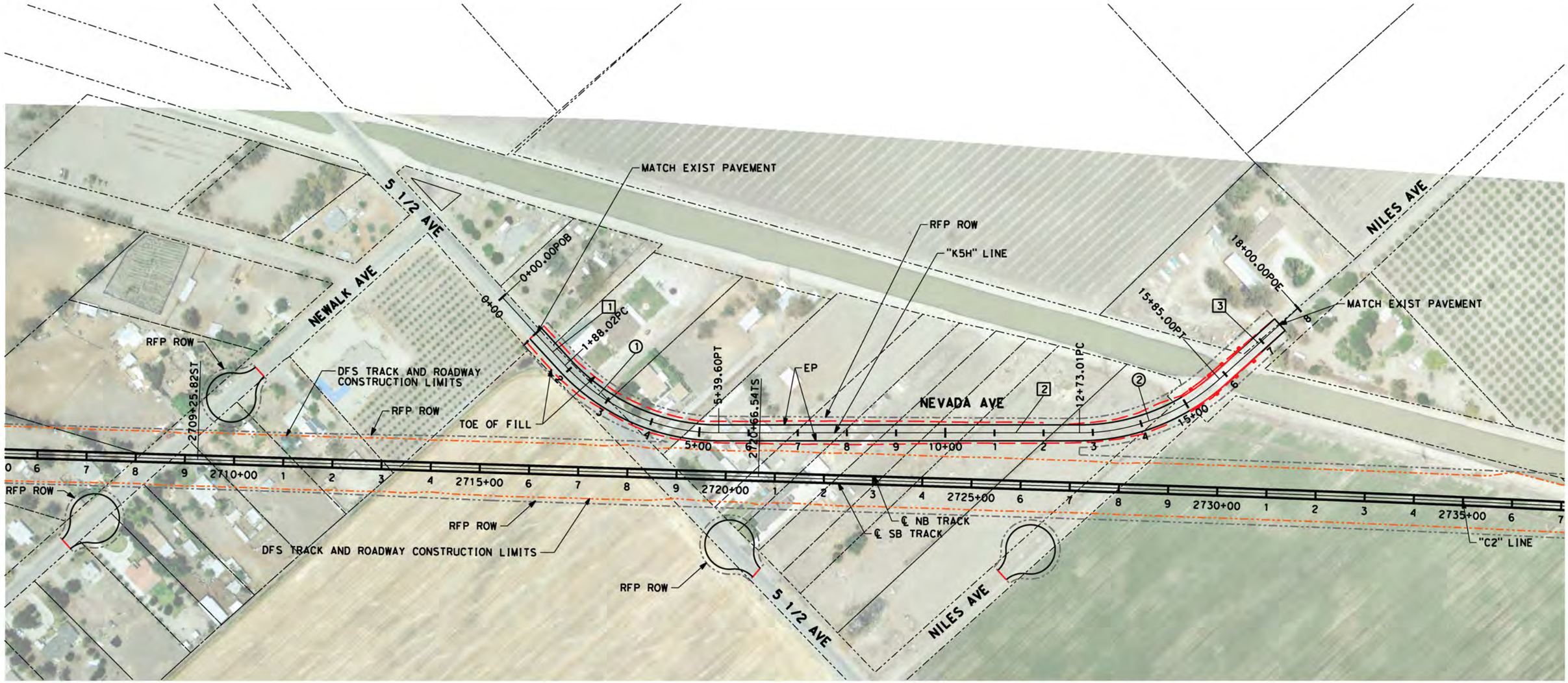
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C2
GRADE SEPARATION PROFILE
NEVADA AVENUE

CONTRACT NO. HSR 06-0003
DRAWING NO. T5011
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:47:52 PM c:\pwworking\nai\partingtonsa\d0167585\VFB-SE65_C2-CV-T5011_Nevada.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S00°06'10"E	188.17'
2	S47°30'05"E	733.41'
3	S89°33'46"E	215.00'

CURVE DATA

NO.	R	Δ	T	L
1	425.00'	47°23'54"	186.56'	351.59'
2	425.00'	42°03'41"	163.40'	311.97'

100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C2
ROADWAY REALIGNMENT LAYOUT
5 1/2 AVENUE

CONTRACT NO. HST 06-0003
DRAWING NO. T5020
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:48:03 PM c:\pwworking\nai\partingtonsa\d0167585\VFB-SE65_C2-CV-T5020_K5H.dgn

PROFILE
"K5H" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	0	2	4	6	8	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	TOTAL
CY Exc																										
CY Emb																										

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C2
ROADWAY REALIGNMENT PROFILE
5 1/2 AVENUE

CONTRACT NO. HSR 06-0003
DRAWING NO. T5021
SCALE AS SHOWN
SHEET NO. - OF -

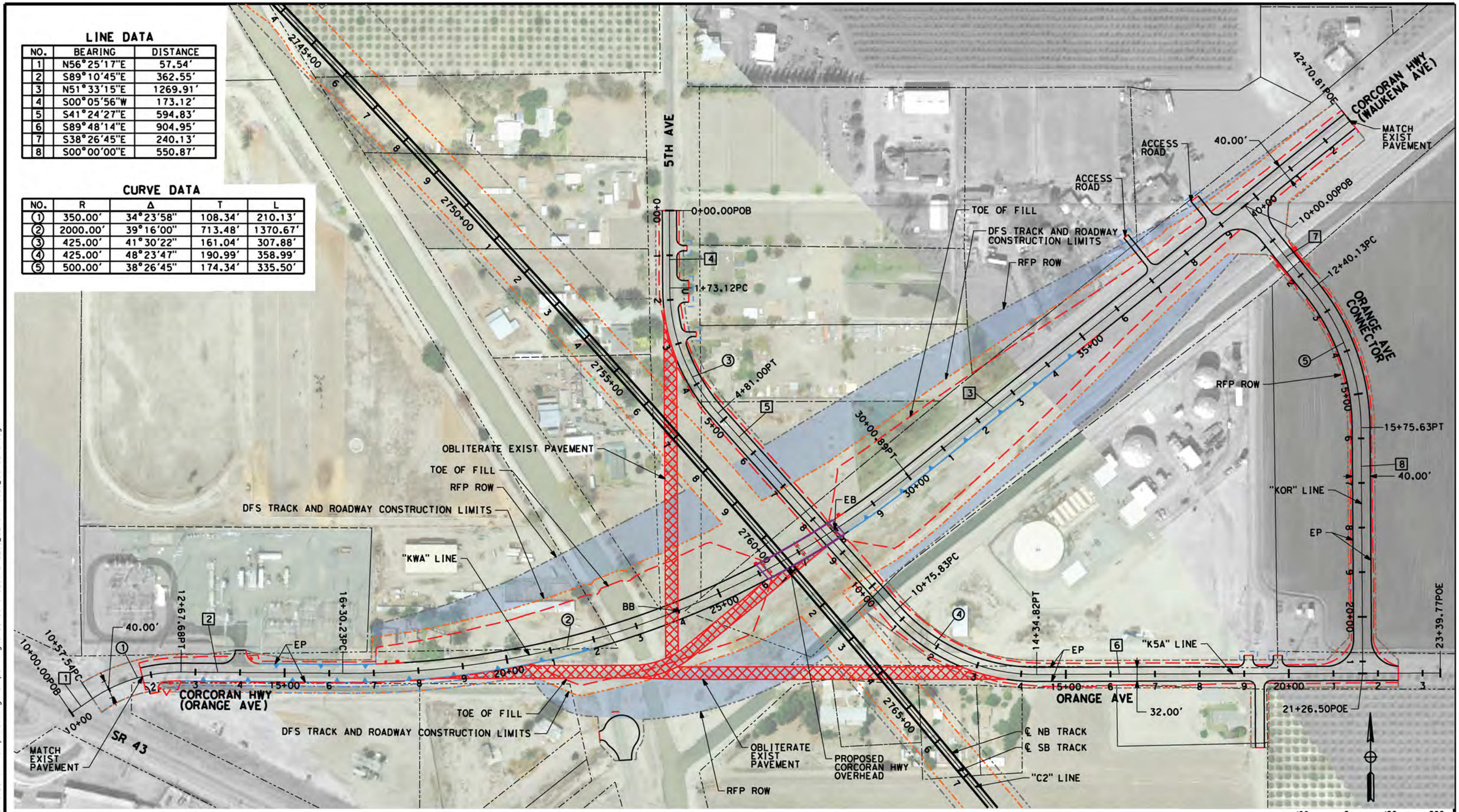
partingtonso 10/13/2014 8:49:27 PM c:\pwworking\nai\partingtonso\d0167585\FB-SEG5_C2-CV-T5021_K5H.dgn

LINE DATA

NO.	BEARING	DISTANCE
1	N56°25'17"E	57.54'
2	S89°10'45"E	362.55'
3	N51°33'15"E	1269.91'
4	S00°05'56"W	173.12'
5	S41°24'27"E	594.83'
6	S89°48'14"E	904.95'
7	S38°26'45"E	240.13'
8	S00°00'00"E	550.87'

CURVE DATA

NO.	R	Δ	T	L
1	350.00'	34°23'58"	108.34'	210.13'
2	2000.00'	39°16'00"	713.48'	1370.67'
3	425.00'	41°30'22"	161.04'	307.88'
4	425.00'	48°23'47"	190.99'	358.99'
5	500.00'	38°26'45"	174.34'	335.50'



REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

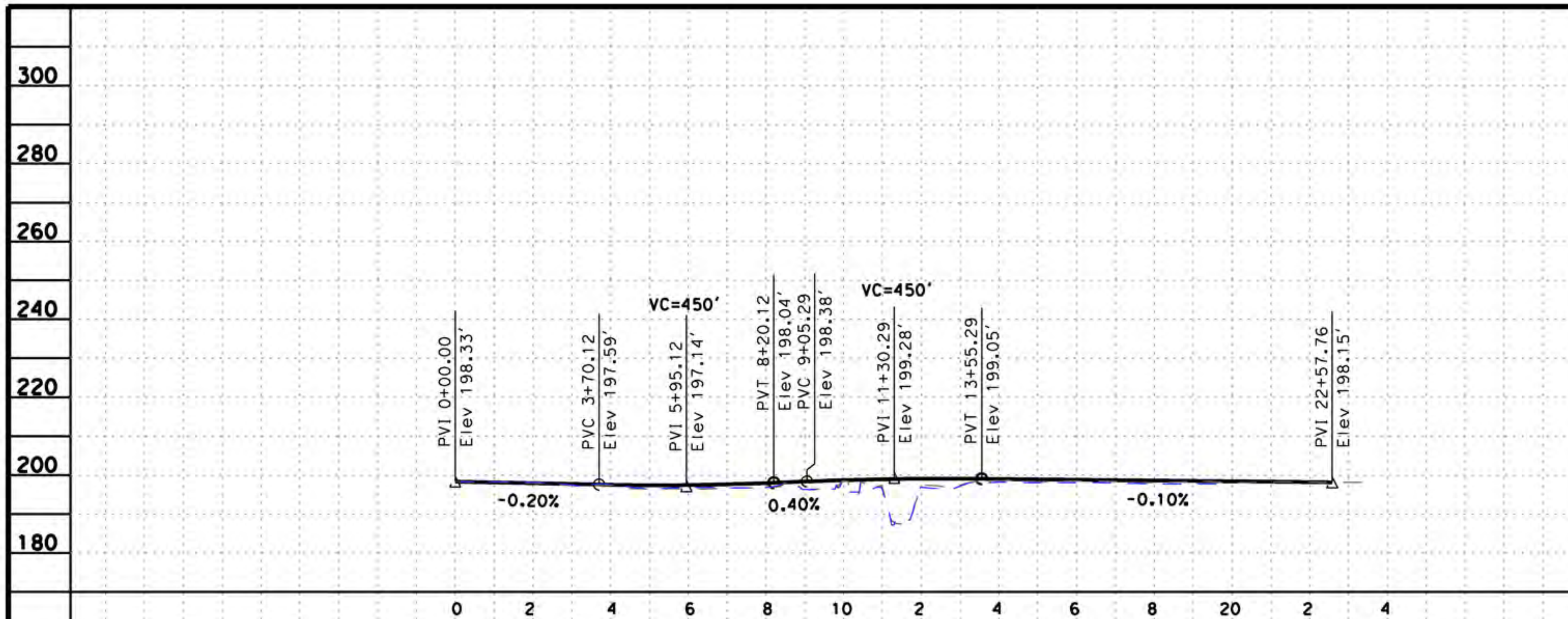
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

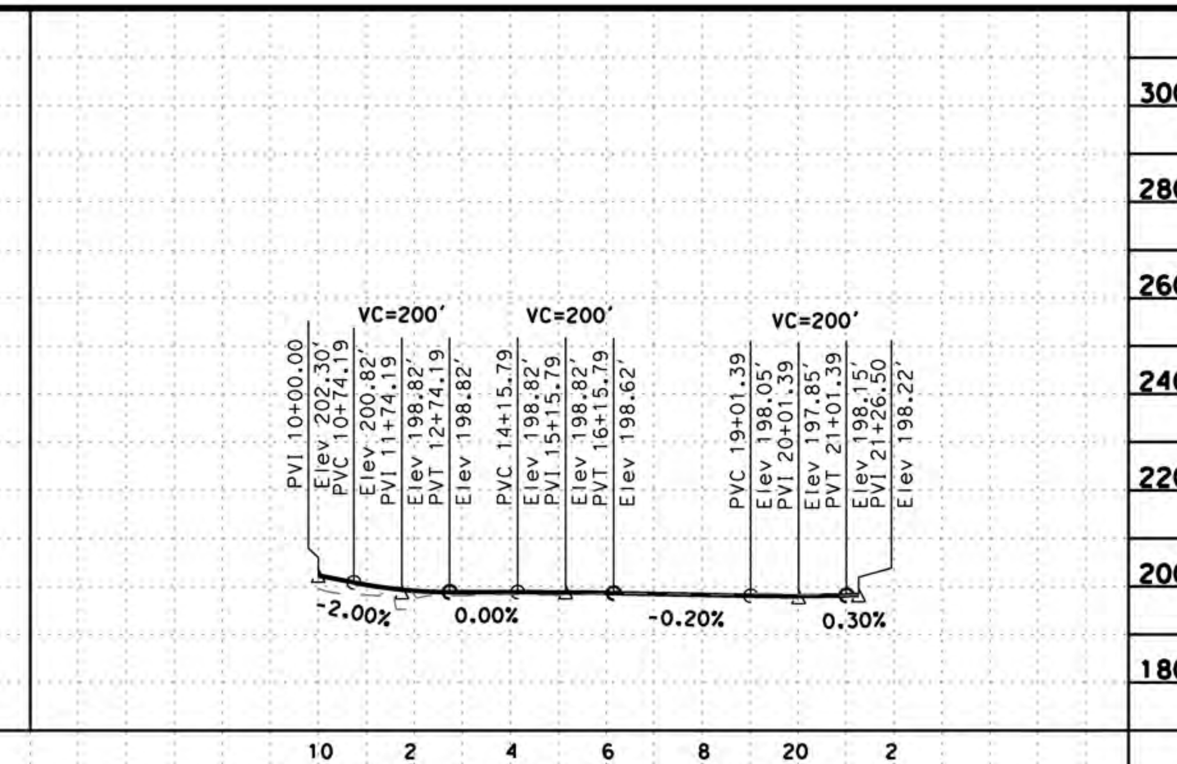
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C2
GRADE SEPARATION LAYOUT
CORCORAN HIGHWAY

CONTRACT NO. HST 06-0003
DRAWING NO. T5030
SCALE AS SHOWN
SHEET NO. - OF -

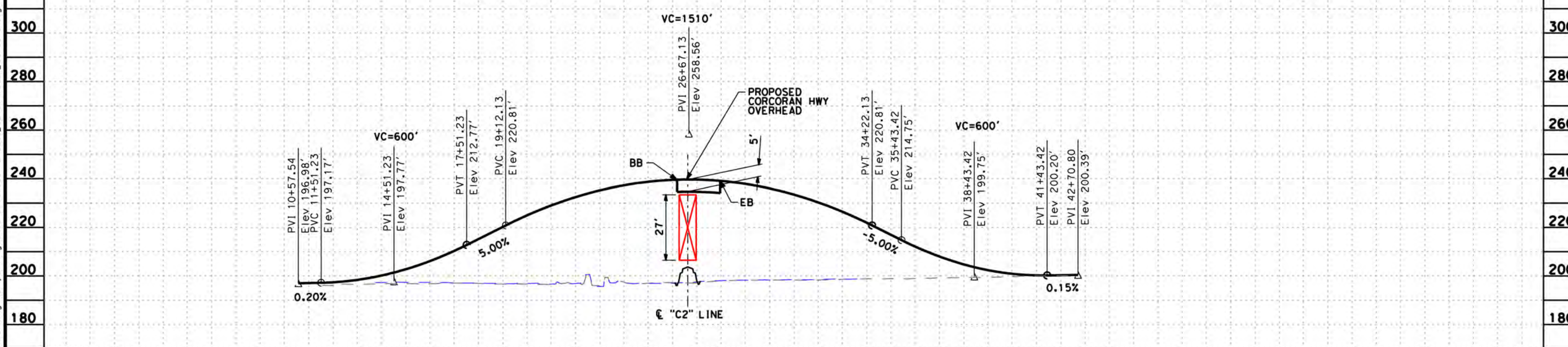
partingtonsa 10/13/2014 8:49:38 PM c:\pwworking\nai\partingtonsa\d0167585\VFB-SE65_C2-CV-T5030_Corcoran.dgn



PROFILE
"K5A-AP" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'



PROFILE
"KOR" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'



PROFILE
"KWA" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	8	TOTAL
CY Exc																										
CY Emb																										

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 7/2/14

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

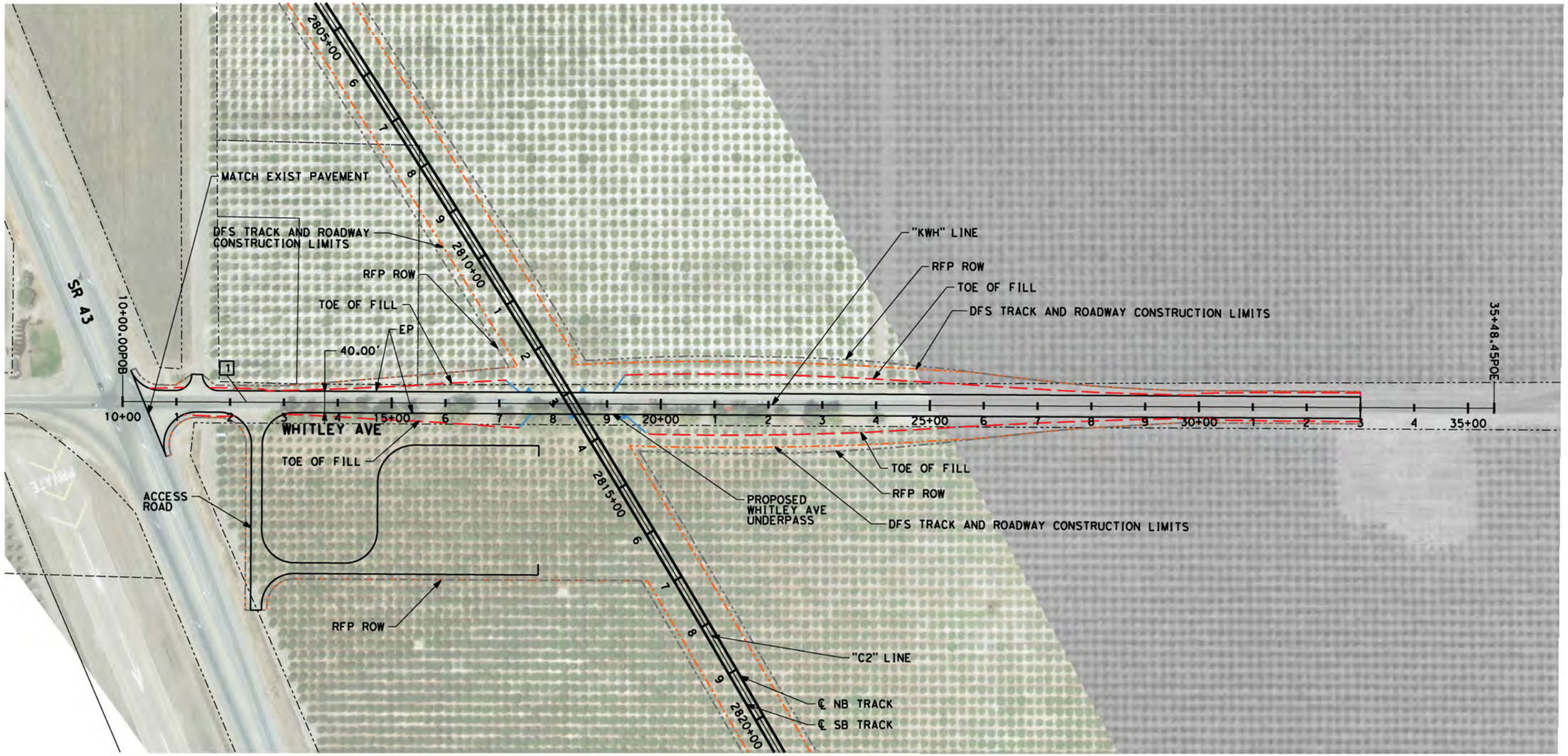
DFS

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C2
GRADE SEPARATION PROFILE
CORCORAN HIGHWAY

CONTRACT NO. HSR 06-0003
DRAWING NO. T5031
SCALE AS SHOWN
SHEET NO. - OF -

partingtonso 10/13/2014 8:50:49 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG5_C2-CV-T5031_Corcoran.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	S89°20'14"E	2548.45'

100 0 100 200

SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY B. Kidd
DRAWN BY Z. Rookheyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C2
GRADE SEPARATION LAYOUT
WHITLEY AVENUE

CONTRACT NO. HST 06-0003
DRAWING NO. T5040
SCALE AS SHOWN
SHEET NO. - OF -

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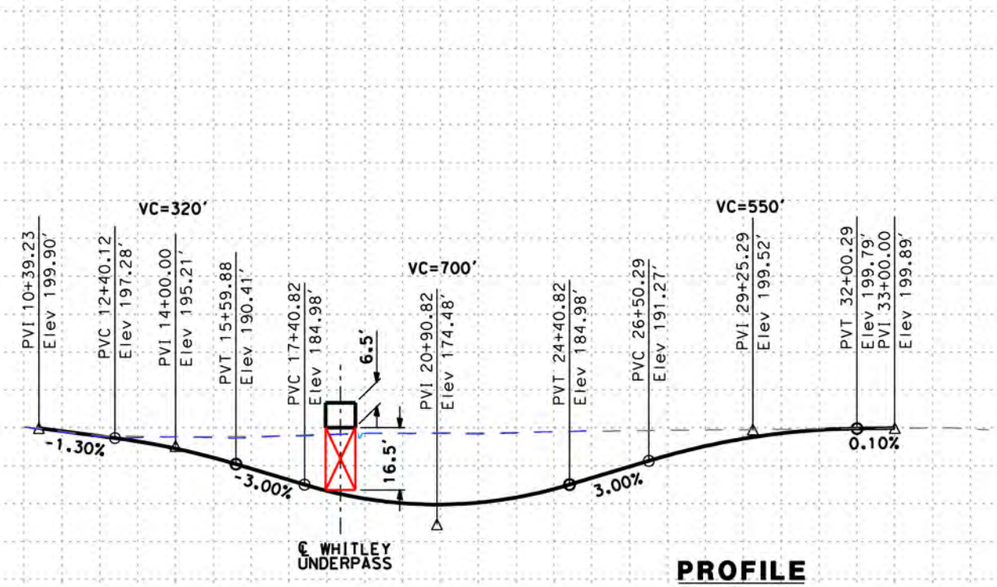

PROFILE
"KWH" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	8	TOTAL
CY Exc																										
CY Emb																										

DISCLAIMER:
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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C2
GRADE SEPARATION PROFILE
WHITLEY AVENUE

CONTRACT NO. HSR 06-0003
DRAWING NO. T5041
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:51:39 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG5_C2-CV-T5041_Whitley.dgn

RFP ROW

PROPOSED CUL-DE-SAC
TO ELIMINATE AT-GRADE XING
PROPOSED MBGR TO PROTECT
CAHSR AND BNSF CORRIDOR

REMOVE BASE
AND SURFACING

REMOVE EXIST AT-GRADE CROSSING

TRAFFIC TO BE ROUTED
ON SR 43 TO ACCESS HESSE AVE
GRADE SEPARATION

TRACTION POWER FACILITY
(SOUTH OPTION)

"A128" 50+00.00 POT=
"P" 3123+80.43 POT

ELIMINATE AVE 128
GRADE SEPARATION

RFP ROW

"A128"
LINE

LIMIT OF DITCH
TOE OF FILL

LIMIT OF DITCH

RFP ROW

℄ NB TRACK

"K4" LINE

℄ SB TRACK

BNSF

SR 43

"P" LINE

"A128" 71+76.13 PI

RFP ROW

RFP ROW

R=60'

R=60'

INTERLOCKING SITE

ACCESS ROAD

"A128" 70+97.09
CONFORM

3115+00
3120+00
3125+00
3130+00
3135+00

LINE DATA

NO.	BEARING	DISTANCE
1	S89°33'34"E	371.54'
2	S52°06'04"E	348.03'
3	S89°41'50"E	1154.40'
4	S59°33'52"W	293.52'

CURVE DATA

NO.	R	Δ	T	L
(1)	700.00'	37°27'29"	237.33'	457.64'
(2)	700.00'	37°35'45"	238.27'	459.32'
(3)	425.00'	149°15'42"	1546.20'	1107.17'

100 0 100 200
SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY P. Barney
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION LAYOUT
AVE 128

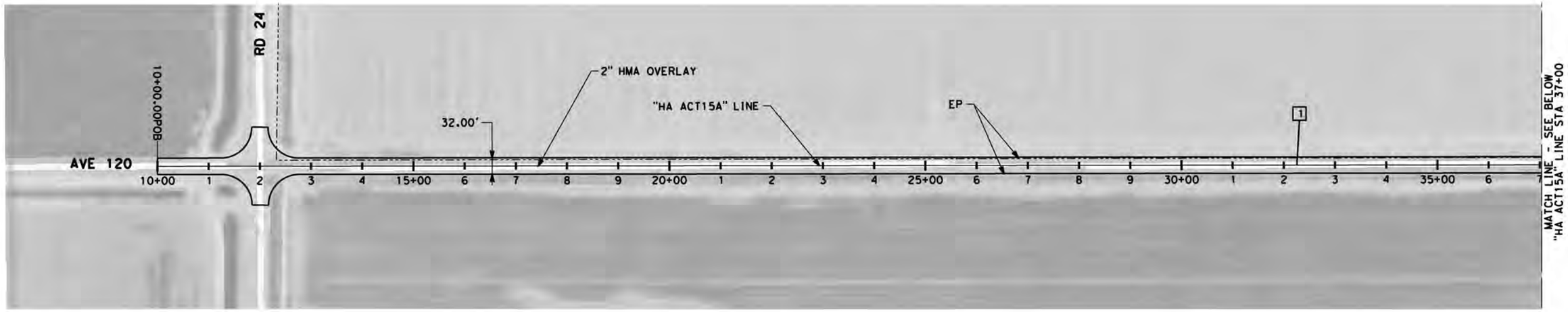
ATC 15A

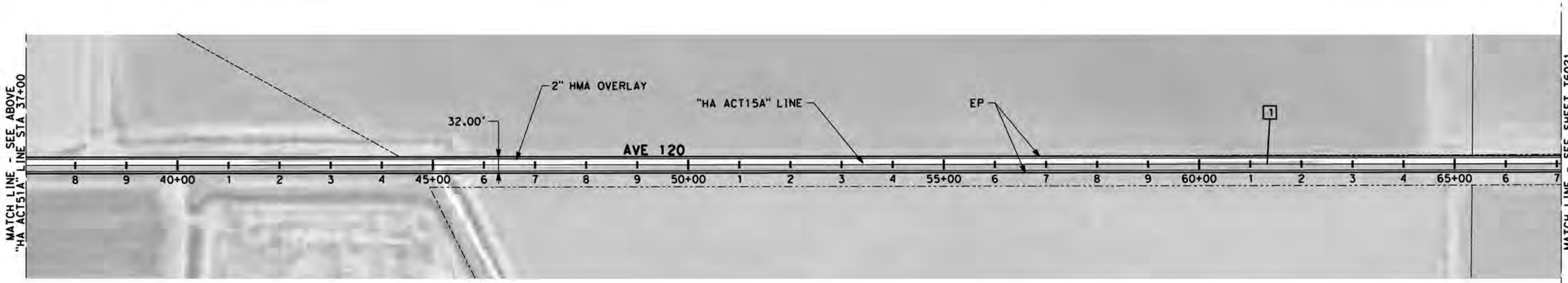
CONTRACT NO. HSR 06-0003
DRAWING NO.
SCALE AS SHOWN
SHEET NO. XX OF XX

partingtonsa 10/13/2014 8:52:37 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SE66_P-CV-T6010_AVE128.dgn

LINE DATA

NO.	BEARING	DISTANCE
1	S89°40'53"E	6259.75'





100 0 100 200

SCALE: 1"=100'

DISCLAIMER:
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DESIGNED BY P. Barney
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION LAYOUT
HESSE AVENUE (NORTH)

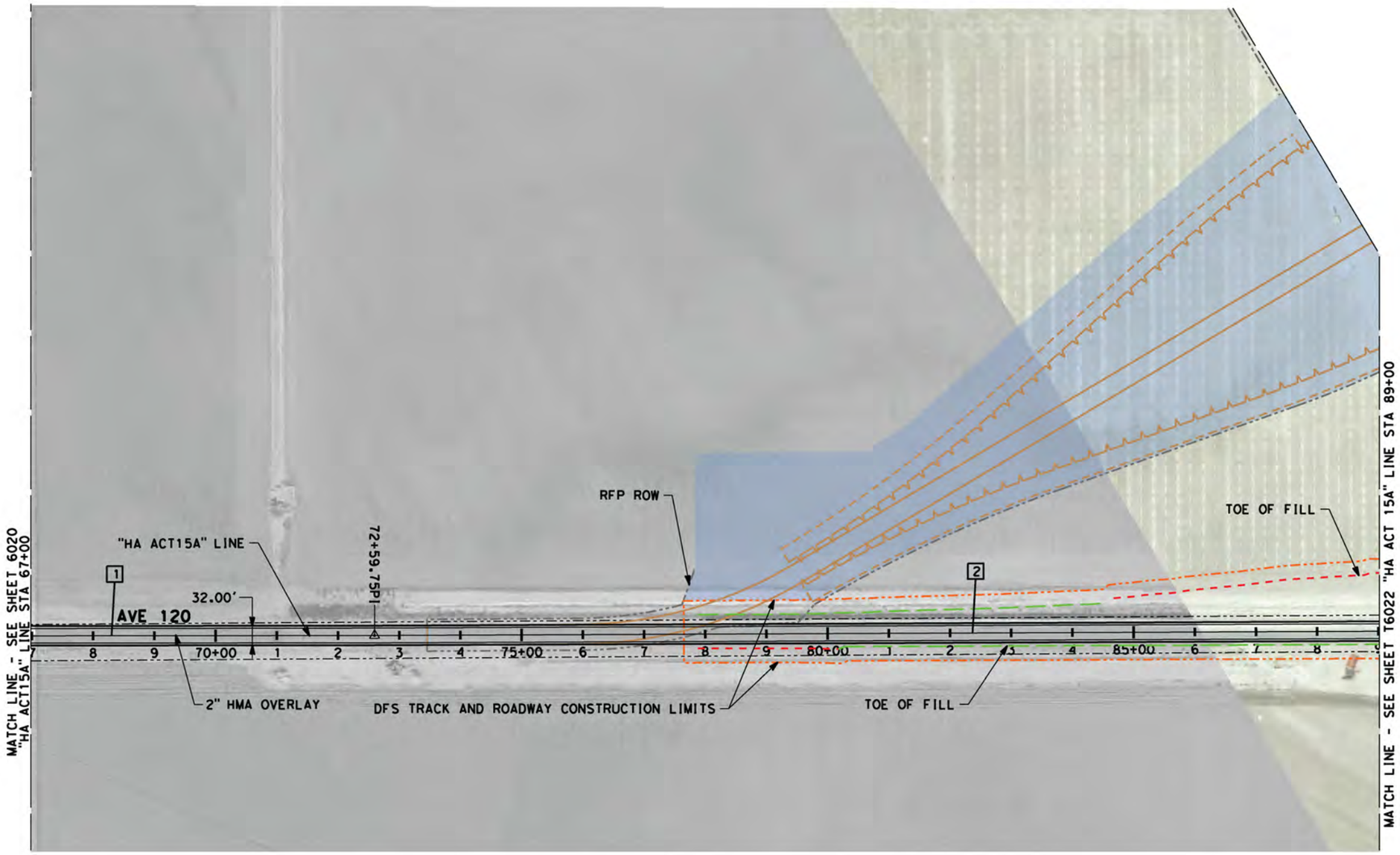
ATC 15A

CONTRACT NO. HST 06-0003
DRAWING NO. T6020
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:52:51 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG6_P-CV-T6020_Hesse01.dgn

LINE DATA

NO.	BEARING	DISTANCE
1	S89°40'53"E	6529.75'
2	S89°51'36"E	3991.28'



REDUCTION IN CONSTRUCTION LIMITS

100 0 100 200
SCALE: 1"=100'

DISCLAIMER:
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DESIGNED BY P. Barney
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

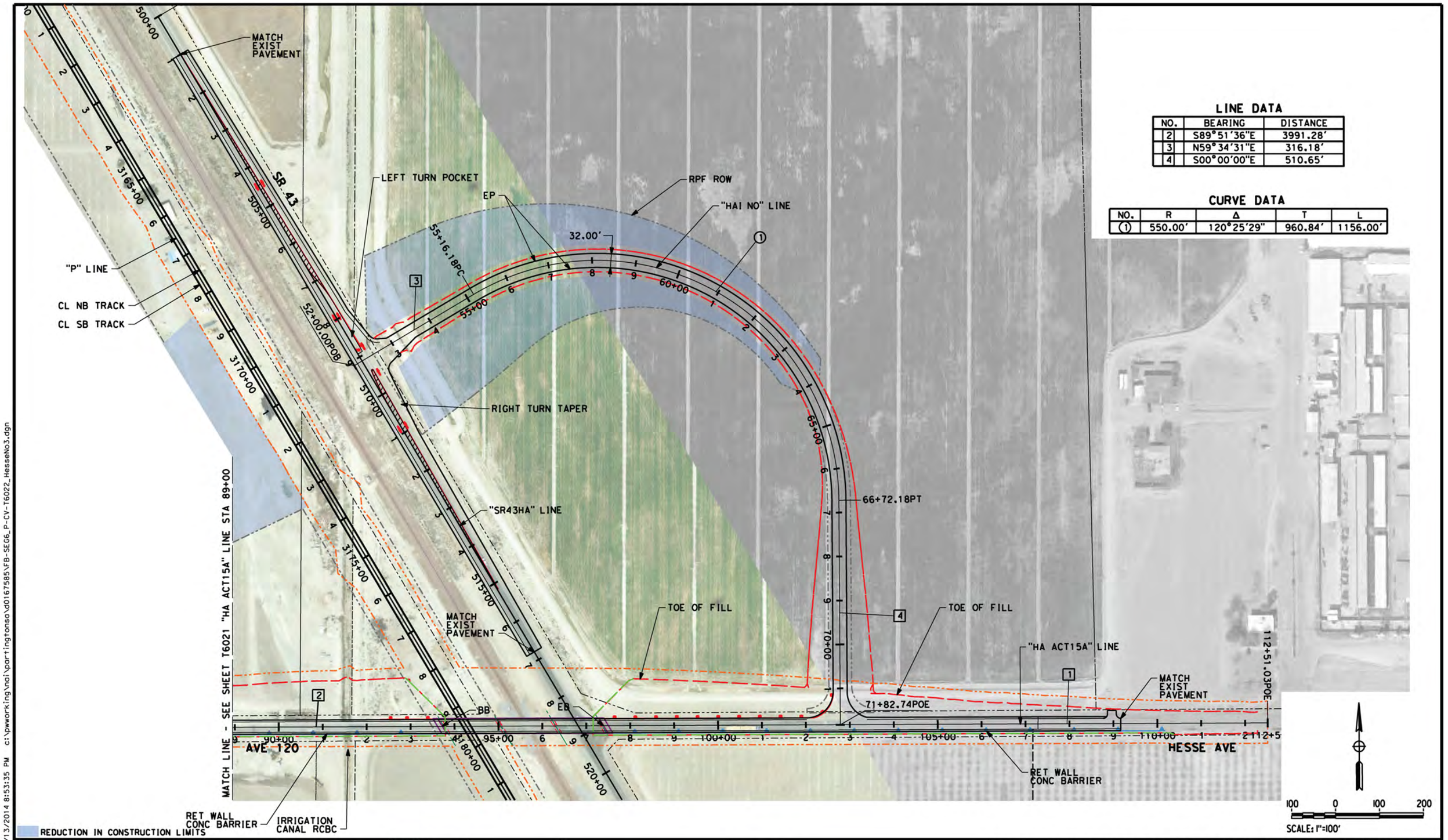
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION LAYOUT
HESSE AVENUE (NORTH)
ATC 15A

CONTRACT NO. HST 06-0003
DRAWING NO. T6021
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:53:25 PM c:\pwworking\nai\partingtonsa\d0167585\VFB-SE06_P-CV-T6021_HesseNo2.dgn



LINE DATA

NO.	BEARING	DISTANCE
2	S89°51'36"E	3991.28'
3	N59°34'31"E	316.18'
4	S00°00'00"E	510.65'

CURVE DATA

NO.	R	Δ	T	L
1	550.00'	120°25'29"	960.84'	1156.00'

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DESIGNED BY P. Barney
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

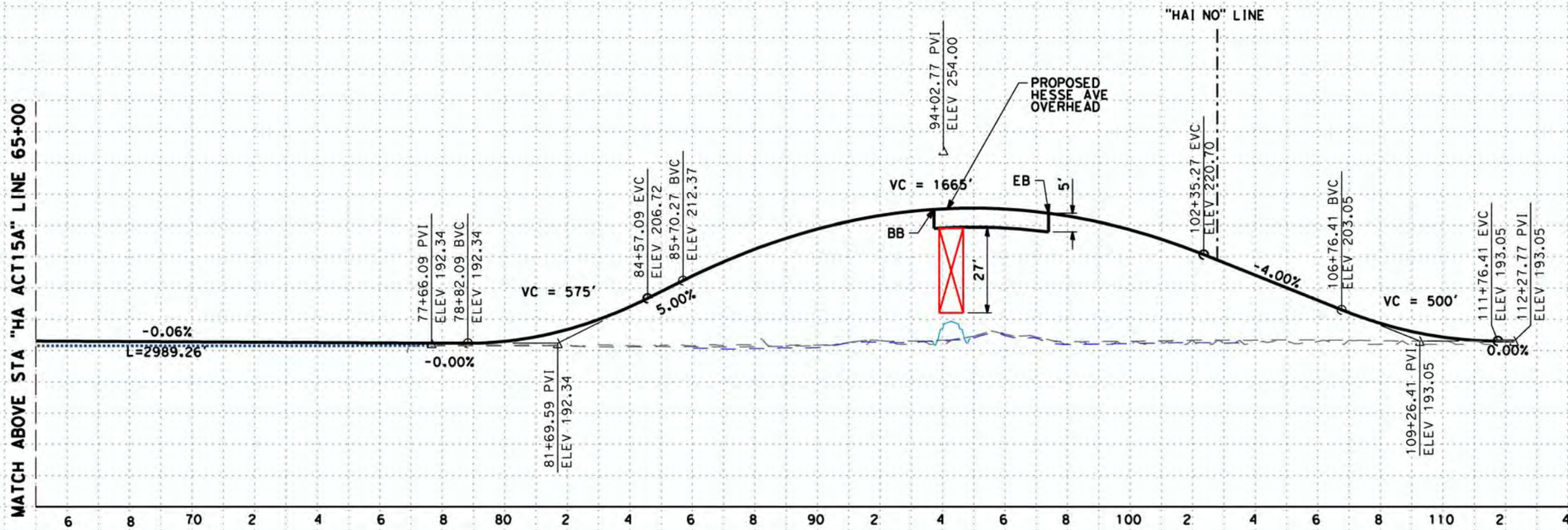
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION LAYOUT
HESSE AVENUE (NORTH)

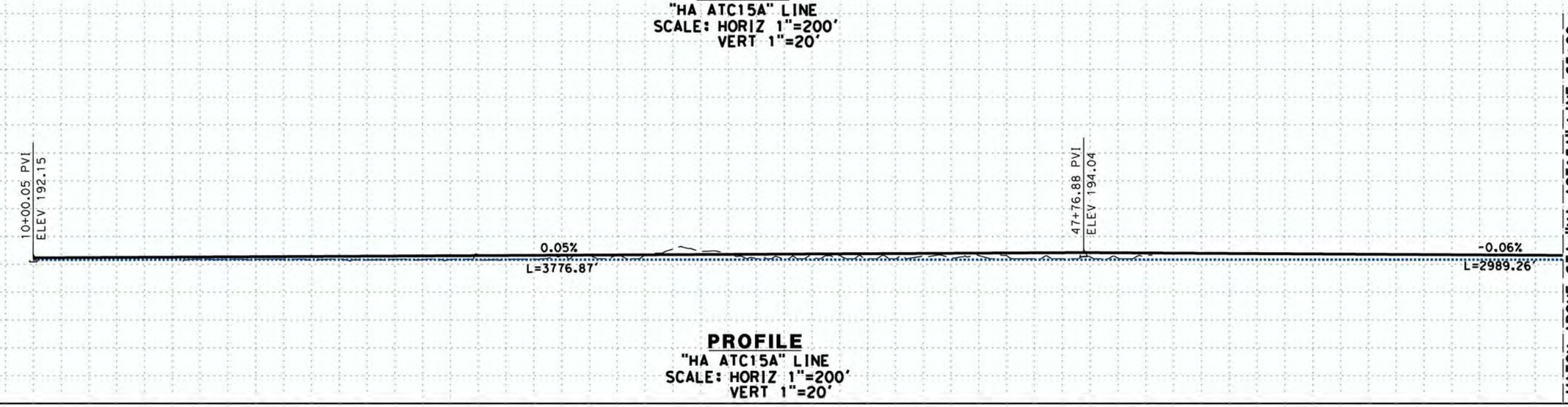
ATC 15A

CONTRACT NO. HST 06-0003
DRAWING NO. T6022
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:53:35 PM c:\pwworking\nai\partingtonsa\d0167585\VFB-SE06_P-CV-T6022_HesseNo3.dgn



PROFILE
"HA ATC15A" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'



PROFILE
"HA ATC15A" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	10	2	4	6	8	20	2	4	6	8	30	2	4	6	8	40	2	4	6	8	50	2	4	6	8	60	2	4	6	TOTAL
CY Exc																														
CY Emb																														

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
HESSE AVENUE
ATC 15A

CONTRACT NO. HSR 06-0003
DRAWING NO. T6026
SCALE AS SHOWN
SHEET NO. - OF -

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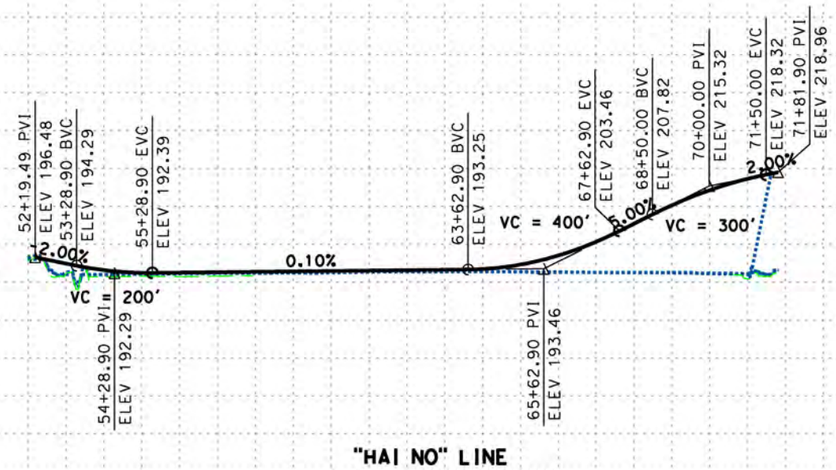

"HAI NO" LINE

PROFILE

SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION		10	2	4	6	8	20	50	2	4	6	8	60	2	4	6	8	70	2	4	TOTAL
CY	Exc																				
	Emb																				

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DESIGNED BY P. Barney
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
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NOT FOR CONSTRUCTION

DFS

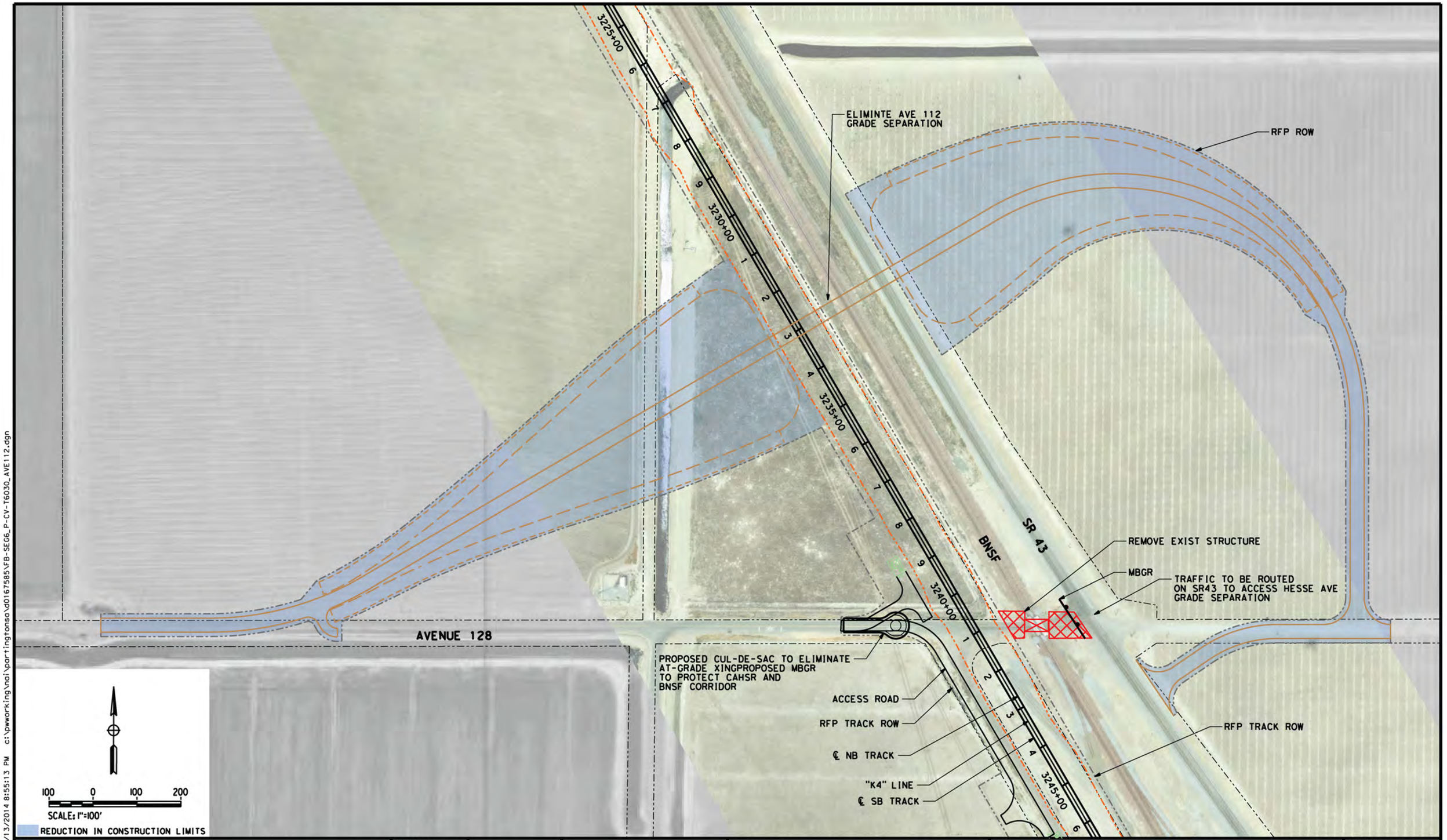
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
HESSE AVENUE

ATC 15A

CONTRACT NO. HSR 06-0003
DRAWING NO. T6027
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:54:18 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG6_P-CV-T6027_HessePro.dgn



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DESIGNED BY	P. Barney
DRAWN BY	S. Partington
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

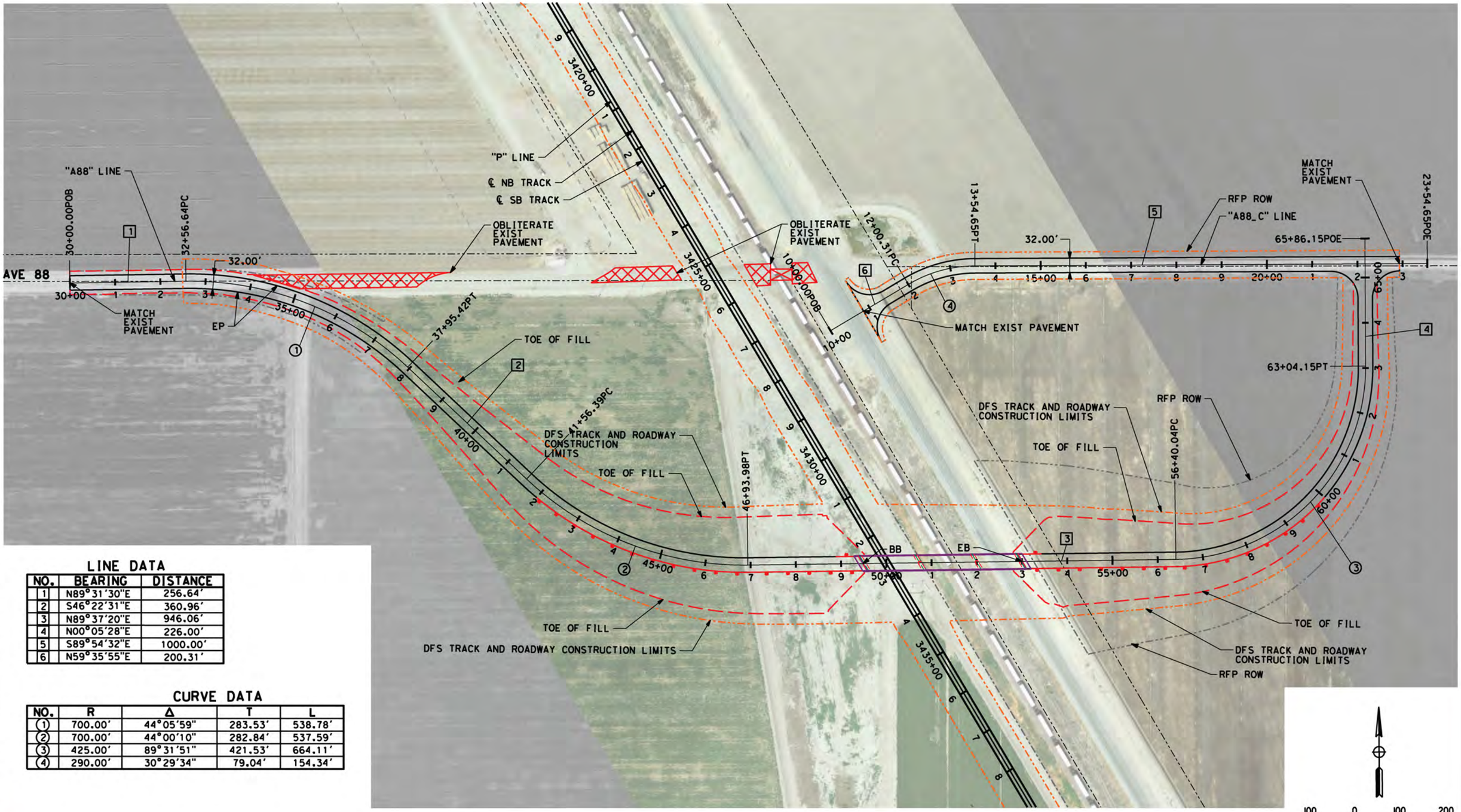
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION LAYOUT
AVE 112

ATC 15A

CONTRACT NO.	HSR 06-0003
DRAWING NO.	T6030
SCALE	AS SHOWN
SHEET NO.	XX OF XX

partingtonsa 10/13/2014 8:55:13 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG6_P-CV-T6030_AVE112.dgn



LINE DATA

NO.	BEARING	DISTANCE
1	N89°31'30"E	256.64'
2	S46°22'31"E	360.96'
3	N89°37'20"E	946.06'
4	N00°05'28"E	226.00'
5	S89°54'32"E	1000.00'
6	N59°35'55"E	200.31'

CURVE DATA

NO.	R	Δ	T	L
1	700.00'	44°05'59"	283.53'	538.78'
2	700.00'	44°00'10"	282.84'	537.59'
3	425.00'	89°31'51"	421.53'	664.11'
4	290.00'	30°29'34"	79.04'	154.34'

REDUCTION IN CONSTRUCTION LIMITS

100 0 100 200
SCALE: 1"=100'

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 06/30/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

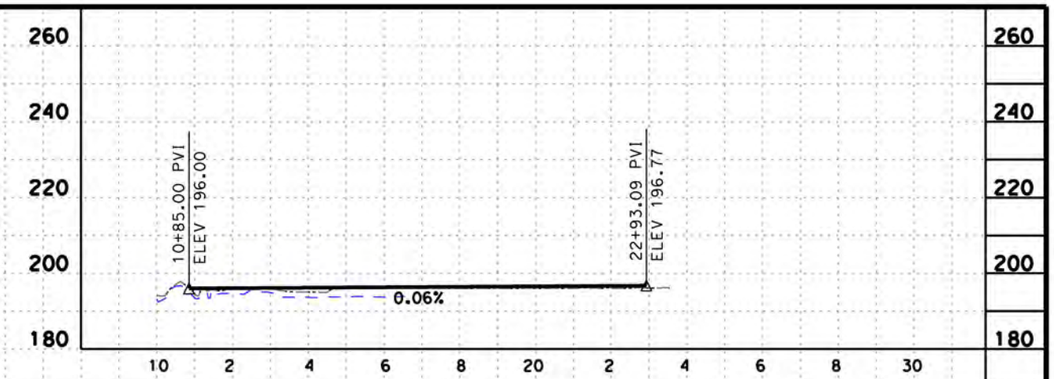
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

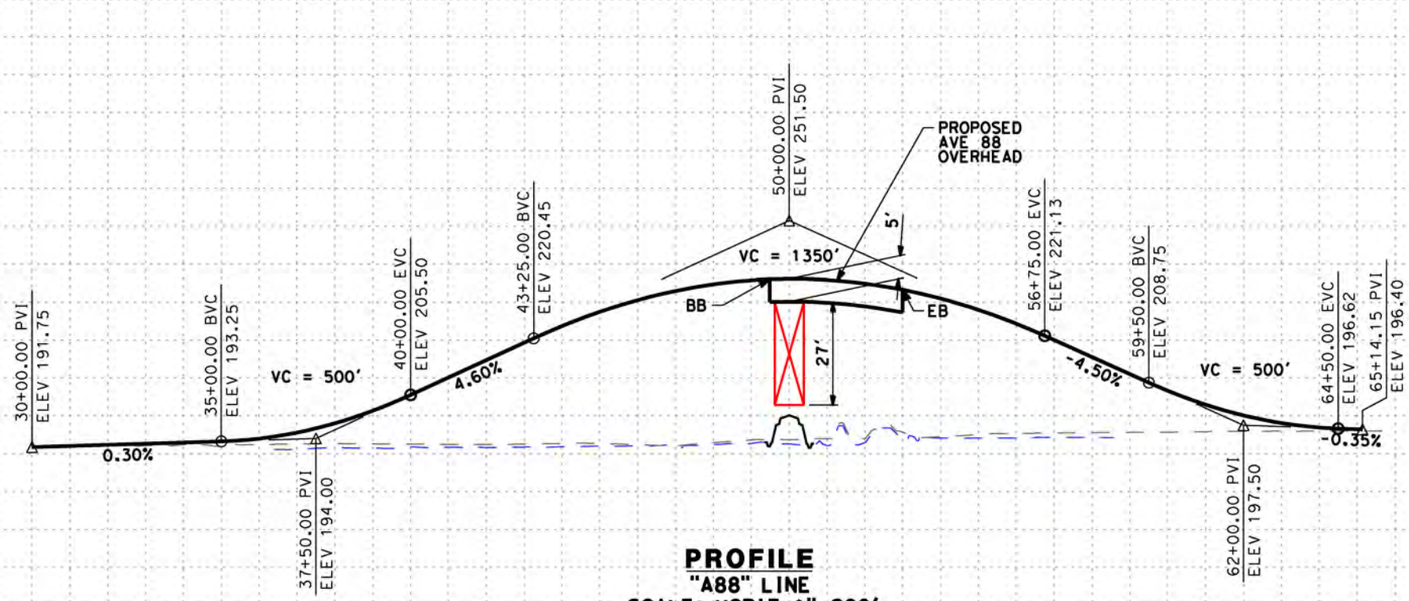
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION LAYOUT
AVENUE 88

CONTRACT NO. HST 06-0003
DRAWING NO. T6040
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:55:23 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG6_P-CV-T6040_AVE88.dgn



PROFILE
"A88_C" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'



PROFILE
"A88" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	30	2	4	6	8	40	2	4	6	8	50	2	4	6	8	60	2	4	6	8	70	2	4	6	8	TOTAL
CY Exc																										
CY Emb																										

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 10/15/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
AVENUE 88

CONTRACT NO. HSR 06-0003
DRAWING NO. T6041
SCALE AS SHOWN
SHEET NO. - OF -

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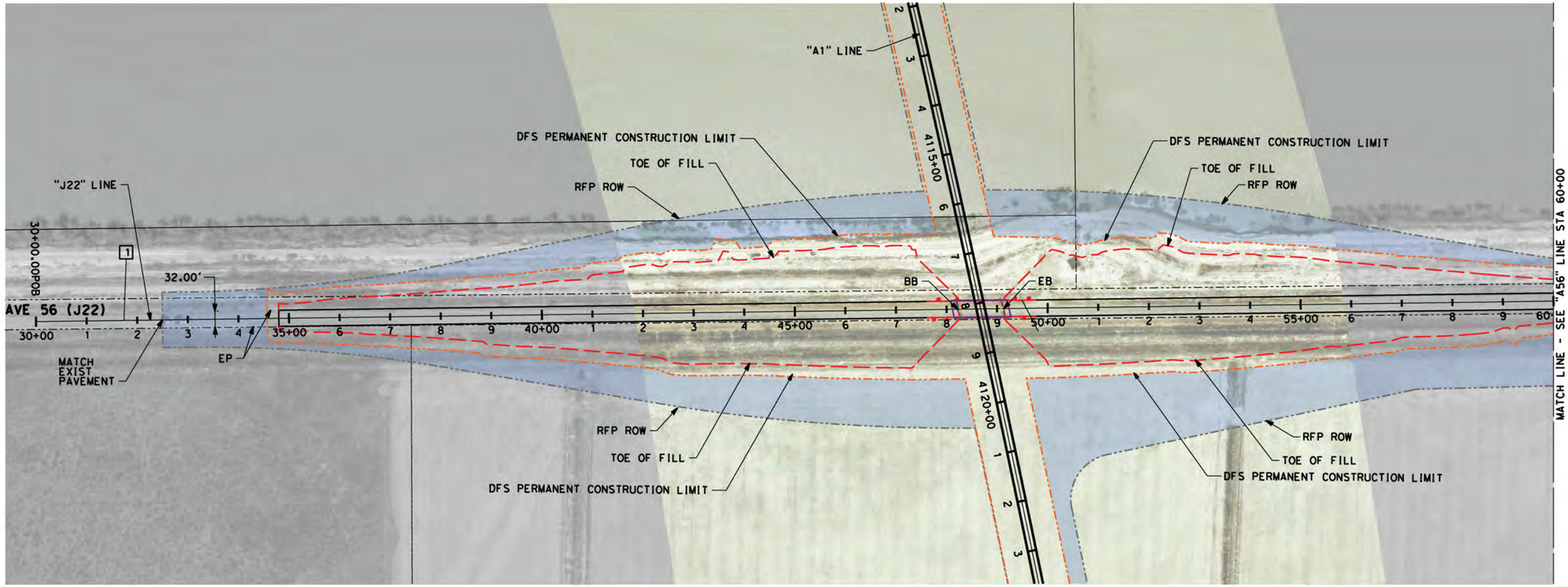
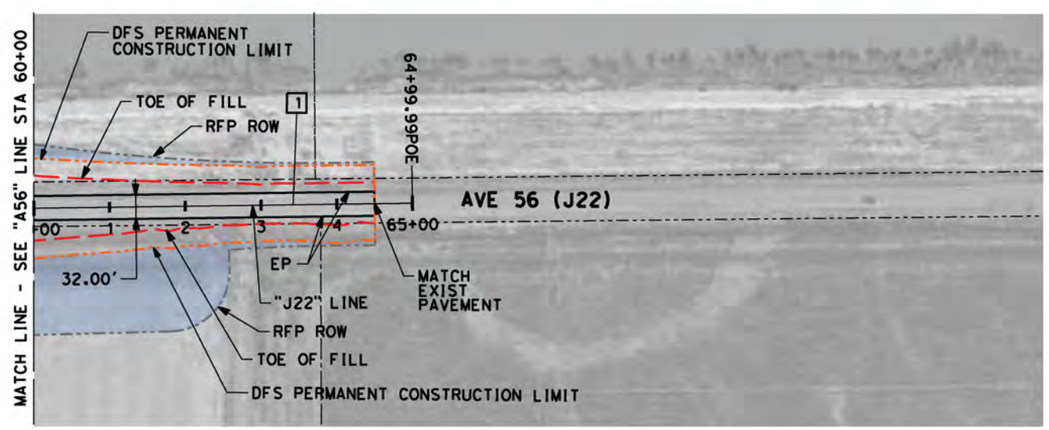


LINE DATA

NO.	BEARING	DISTANCE
1	N89°36'35"E	3500.00'



100 0 100 200
SCALE: 1"=100'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY B. Kidd
DRAWN BY Z. Rookhuyzen
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

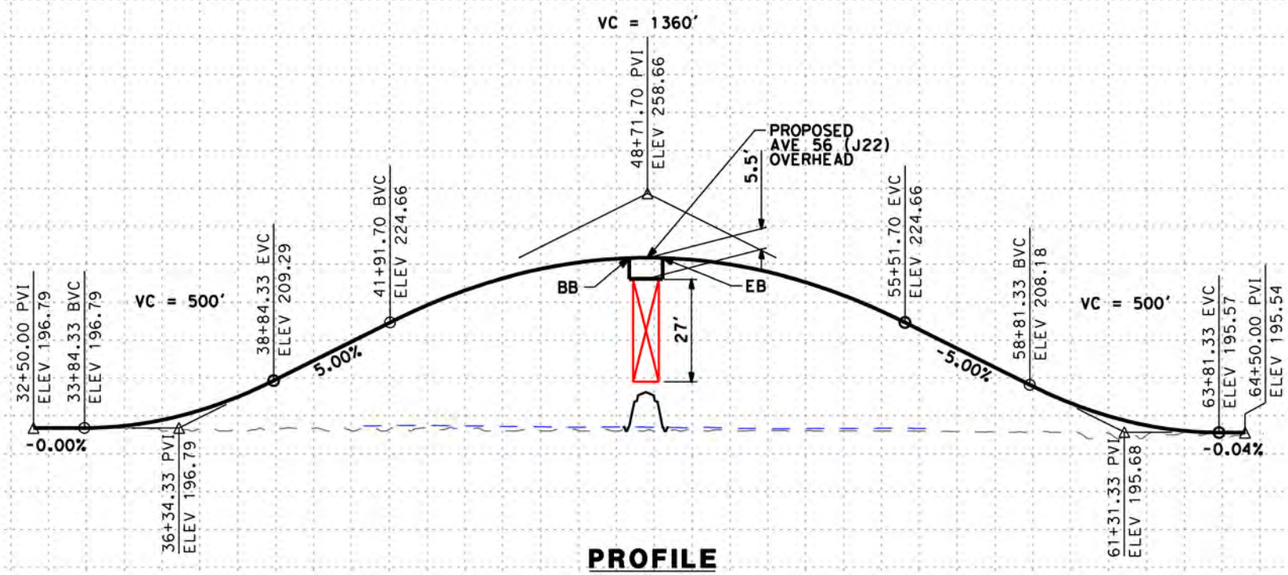
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
AVENUE 56 (J22)

CONTRACT NO. HST 06-0003
DRAWING NO. T7010
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:56:22 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG7_A1-CV-T7010_AVE 56_J22.dgn



PROFILE
"J22" LINE
SCALE: HORIZ 1"=200'
VERT 1"=20'

STATION	30	2	4	6	8	40	2	4	6	8	50	2	4	6	8	60	2	4	6	8	70	2	4	6	8	TOTAL
CY Exc																										
CY Emb																										

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DESIGNED BY B. KIDD
DRAWN BY Z. ROOKHUYZEN
CHECKED BY E. KARAM
IN CHARGE R. TREVETT
DATE 08/28/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

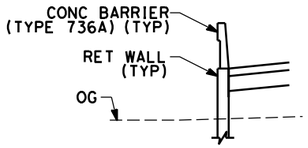
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

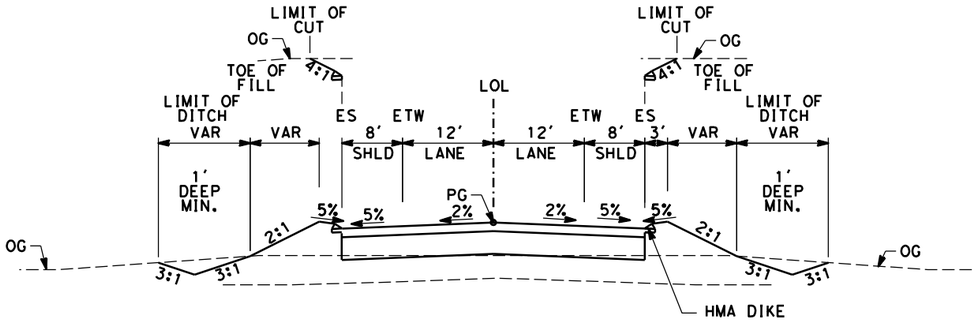
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT A1
GRADE SEPARATION PROFILE
AVENUE 56 (J22)

CONTRACT NO. HSR 06-0003
DRAWING NO. T7011
SCALE AS SHOWN
SHEET NO. - OF -

partingtonsa 10/13/2014 8:57:07 PM c:\pwworking\nai\partingtonsa\d0167585\FB-SEG7_A1-CV-T7011_J22.dgn

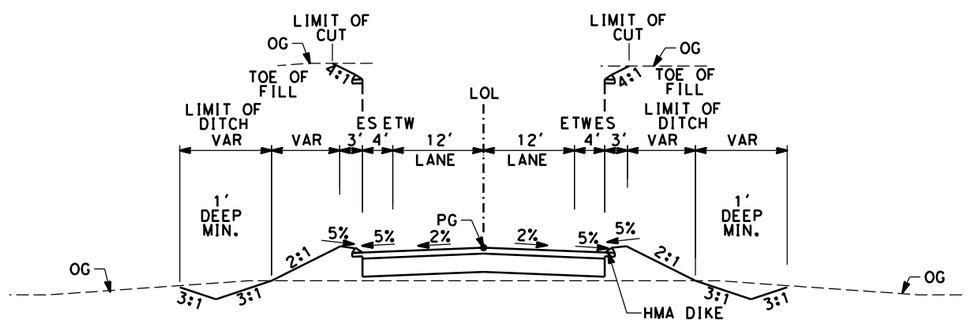


"FNE" 33+97.00 TO 38+05.00



SECTION A

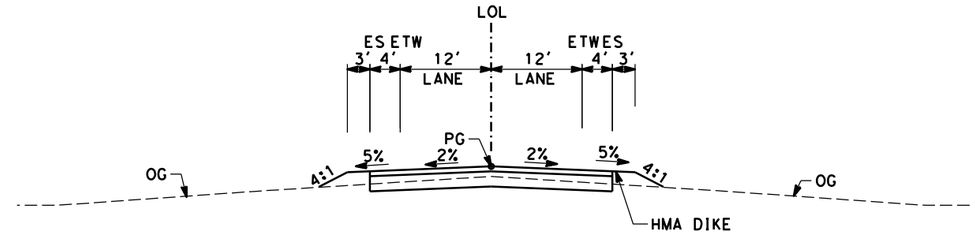
"FLI"	10+00.00 TO 21+30.50	"FNE"	33+97.00 TO 43+50.00	"FMN"	104+00.00 TO 109+00.00
"FLI"	23+82.50 TO 36+00.00	"FMV"	102+00.00 TO 117+93.50	"FMN"	122+44.50 TO 130+00.00
"FAD"	12+50.00 TO 21+73.00	"FMV"	120+16.50 TO 133+30.00	"FFL"	7+00.00 TO 22+59.50
"FAD"	24+21.00 TO 36+00.00	"FCN"	28+50.00 TO 33+26.39	"FFL"	24+94.50 TO 37+00.00
"FNE"	10+00.00 TO 31+81.00	"FCS"	0+00.00 TO 13+00.00		



"FLI" E LINCOLN AVE
"FAD" E ADAMS AVE
"FSO" E SOUTH AVE
"FMN" E MANNING AVE
"FFL" E FLORAL AVE
"FNE" E NEBRASKA AVE
"FMV" E MOUNTAIN VIEW AVE
"FLIM" S MAPLE AVE AT LINCOLN
"FLIC" S CEDAR AVE AT LINCOLN
"FADM" S MAPLE AVE AT ADAMS
"FADC" S CEDAR AVE AT ADAMS
"FSOM" S MAPLE AVE AT SOUTH
"FSOC" S CEDAR AVE AT SOUTH
"FMM" S MAPLE AVE AT MANNING
"NCN" S CHESTNUT AVE AT NEBRASKA
"FCN/FCS" S CHESTNUT AVE

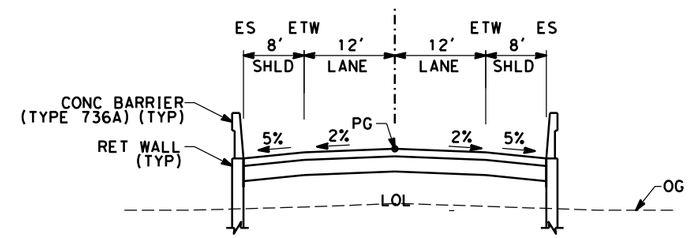
SECTION B

"FSO" 14+00.00 TO 23+60.25
"FSO" 25+78.25 TO 38+00.00



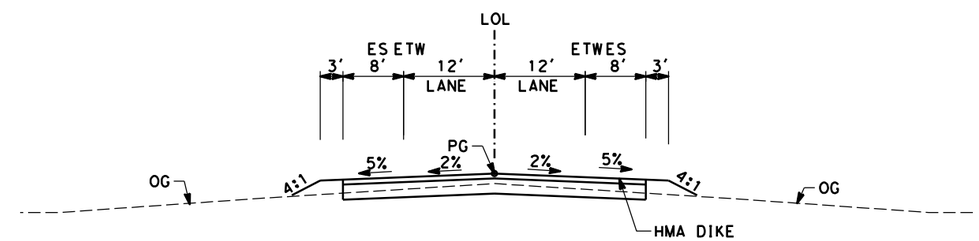
SECTION C

"NCN"	12+00.00 TO 30+00.00	"FSO"	8+50.00 TO 14+00.00
"FLIM"	2+00.00 TO 12+50.00	"FSO"	38+00.00 TO 41+00.00
"FADM"	2+00.00 TO 13+00.00	"FFL"	3+00.00 TO 7+00.00
"FMM"	3+00.00 TO 13+00.00	"FFL"	37+00.00 TO 42+00.00
"FSOM"	6+00.00 TO 16+50.00		



SECTION D

"FMN" 109+00.00 TO 119+84.50



SECTION E

"FADC"	4+00.00 TO 13+00.00	"FMN"	130+00.00 TO 135+00.00
"FSOC"	7+00.00 TO 14+00.00	"FNE"	7+00.00 TO 10+00.00
"FLIC"	17+00.00 TO 23+50.00	"FNE"	43+50.00 TO 51+60.00
"FLI"	7+50.00 TO 10+00.00	"FMV"	98+00.00 TO 102+00.00
"FLI"	36+00.00 TO 39+00.00	"FMV"	133+30.00 TO 138+00.00
"FAD"	7+50.00 TO 12+50.00	"FCS"	13+00.00 TO 16+00.00
"FAD"	36+00.00 TO 39+00.00	"FCN"	00+00.00 TO 28+50.00

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DESIGNED BY B. Kidd
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 06/30/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
TYPICAL SECTIONS

CONTRACT NO. HST 06-0003
DRAWING NO. T1010
SCALE AS SHOWN
SHEET NO.

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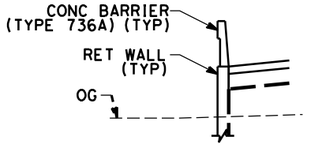
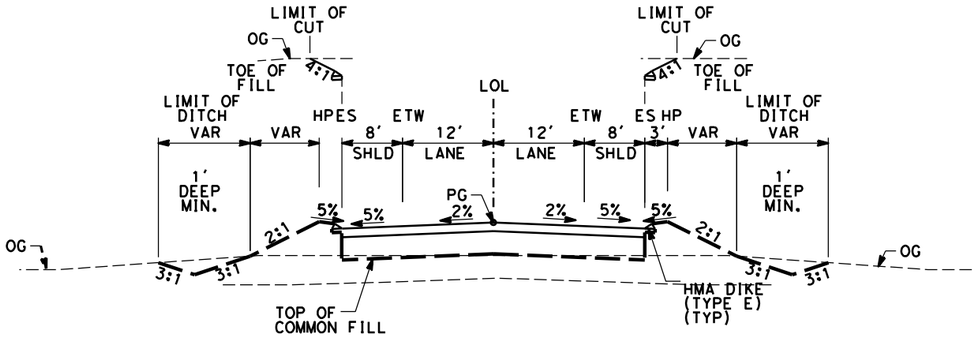
karames

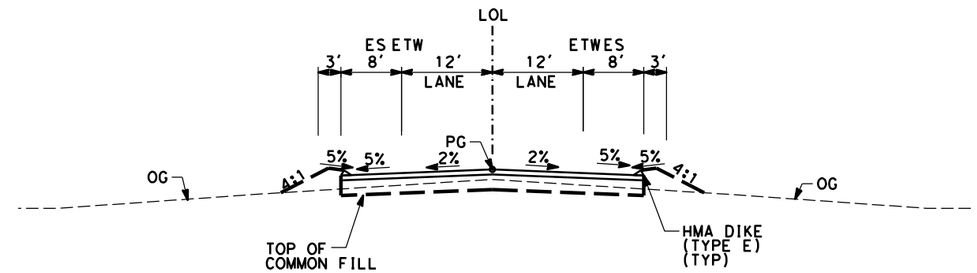


"KHO" 5+45.00 TO 12+00.00



SECTION A

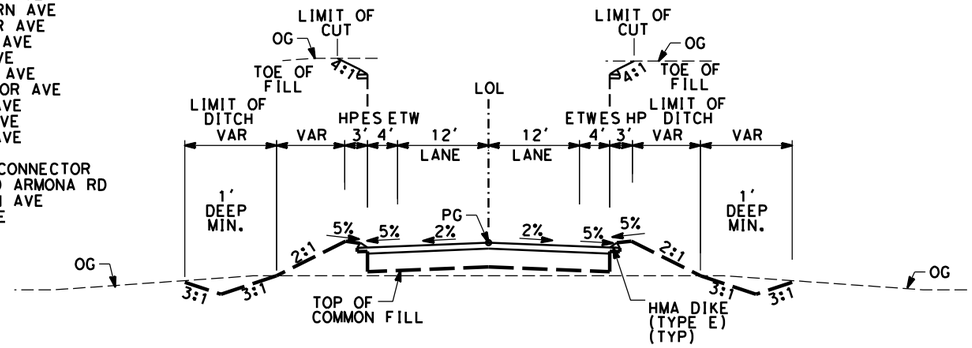
"FEL" 4+00.00 TO 19+79.00	"KEL" 28+57.50 TO 44+50.00
"FEL" 20+95.00 TO 37+00.00	"KFL" 8+00.00 TO 28+96.75
"FFO" 20+60.00 TO 36+00.00	"KFL" 29+72.75 TO 49+00.00
"FFO" 38+70.00 TO 54+00.00	"KHA" 4+50.00 TO 17+87.00
"KEX" 15+00.00 TO 26+91.00	"KHA" 18+63.00 TO 27+50.00
"KEX" 27+69.00 TO 43+00.00	"KHO" 3+50.00 TO 12+00.00
"KEL" 12+00.00 TO 27+80.00	"KHO" 18+38.00 TO 31+00.00



SECTION C

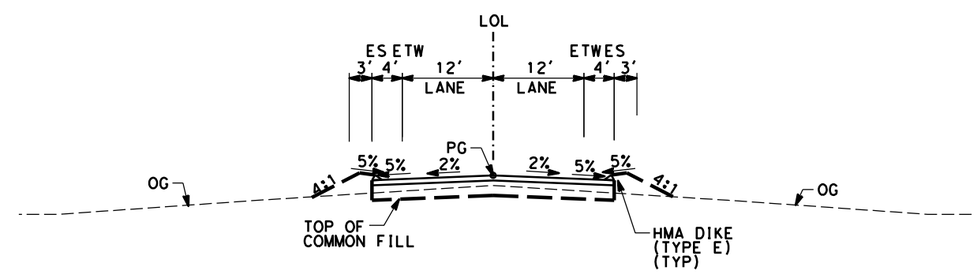
"FEL" 1+00.00 TO 4+00.00	"KEL" 44+60.00 TO 46+00.00
"FEL" 37+00.00 TO 39+00.00	"KFL" 6+00.00 TO 8+00.00
"FFO" 8+00.00 TO 20+60.00	"KFL" 49+00.00 TO 52+00.00
"FFO" 54+00.00 TO 59+00.00	"KHA" 0+88.49 TO 4+50.00
"KEX" 9+00.00 TO 15+00.00	"KHA" 27+50.00 TO 35+64.59
"KEX" 43+00.00 TO 47+00.00	"KHO" 1+00.00 TO 3+50.00
"KEL" 10+00.00 TO 12+00.00	"KHO" 31+00.00 TO 35+00.00

"FMI" E CLARKSON AVE
"FCL" S CLOVIS AVE
"FEL" E ELKHORN AVE
"FFO" S FOWLER AVE
"FDA" E DAVIS AVE
"KDO" DOVER AVE
"K8N/K8S" 8TH AVE
"KEX" EXCELSIOR AVE
"KEL" ELDER AVE
"KFL" FLINT AVE
"KFA" FARGO AVE
"K7N" 7½AVE
"K7" 7½AVE CONNECTOR
"KHA" HANFORD ARMONA RD
"KHO" HOUSTON AVE
"KIO" IONA AVE



SECTION B

"FCL" 11+00.00 TO 28+07.00	"K8N" 22+00.00 TO 34+73.58
"FCL" 28+83.00 TO 45+00.00	"K8S" 10+00.00 TO 23+00.00
"FDA" 8+00.00 TO 24+88.25	"KFA" 11+00.00 TO 26+01.00
"FDA" 26+45.25 TO 42+80.00	"KFA" 27+53.00 TO 43+00.00
"KDO" 12+00.00 TO 26+50.00	"KIO" 3+00.00 TO 17+62.00
"KDO" 29+55.00 TO 44+00.00	"KIO" 18+38.00 TO 33+00.00



SECTION D

"K7" 0+00.00 TO 13+44.31	"K8N" 12+50.00 TO 22+00.00
"K7N" 0+50.00 TO 12+05.95	"K8S" 23+00.00 TO 25+00.00
"FMI" 0+00.00 TO 32+77.19	"KDO" 10+00.00 TO 12+00.00
"FCL" 8+00.00 TO 11+00.00	"KDO" 44+00.00 TO 46+00.00
"FCL" 45+00.00 TO 52+00.00	"KFA" 9+00.00 TO 11+00.00
"FDA" 6+00.00 TO 8+00.00	"KFA" 43+00.00 TO 45+00.00
"FDA" 42+80.00 TO 45+00.00	"KIO" 0+29.73 TO 3+00.00
	"KIO" 33+00.00 TO 35+31.38

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DESIGNED BY B. Kidd
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 06/30/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
TYPICAL SECTIONS

CONTRACT NO. HST 06-0003
DRAWING NO. T1011
SCALE AS SHOWN
SHEET NO.

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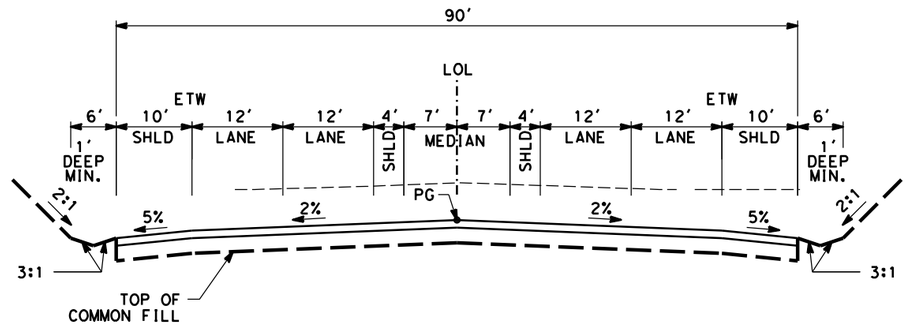
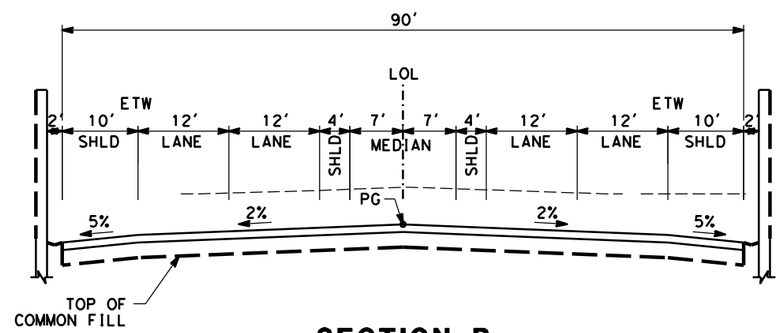


SECTION A

"SR198" 12+03.71 TO 37+64.16
"SR198" 38+54.16 TO 53+07.32



SECTION B

"SR198" 37+64.16 TO 38+54.16

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DESIGNED BY	B. Kidd
DRAWN BY	S. Partington
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	07/22/14

RECORD SET 15% DESIGN SUBMISSION
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DFS

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
TYPICAL SECTIONS

CONTRACT NO.	HST 06-0003
DRAWING NO.	T1012
SCALE	AS SHOWN
SHEET NO.	

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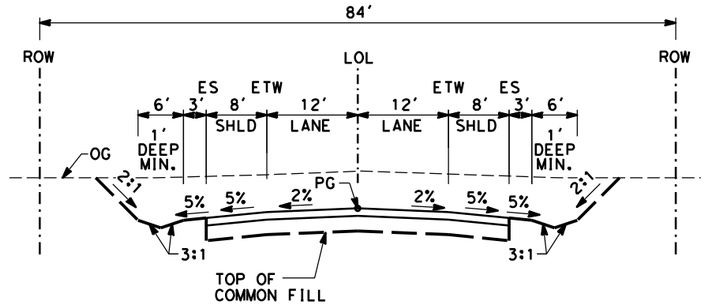
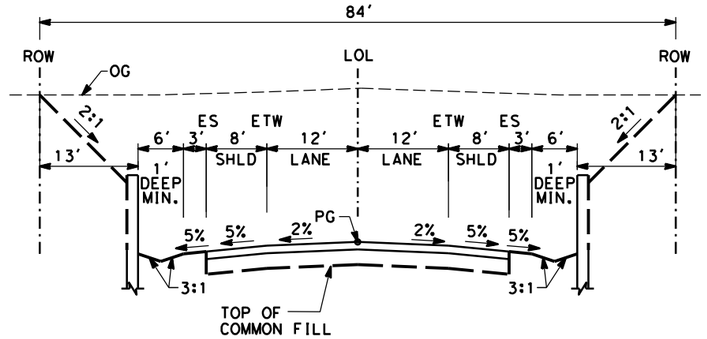


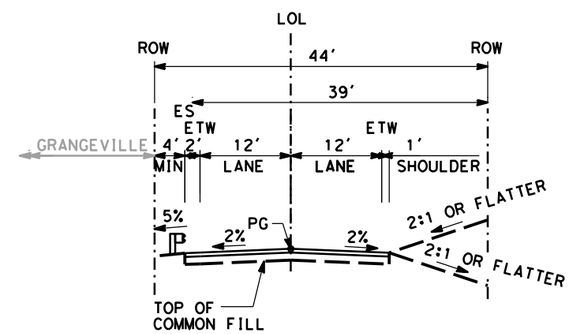
SECTION B

"WKGR" 18+78 TO 30+90
"WKGR" 42+80 TO 54+19



SECTION C

"WKGR" 30+90 TO 42+80



SECTION D

"XX" 10+20 TO 15+60

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DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 07/22/14

RECORD SET 15% DESIGN SUBMISSION
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
GRANGEVILLE BLVD
TYPICAL SECTIONS

ACT 17

CONTRACT NO. HST 06-0003
DRAWING NO. T1013
SCALE AS SHOWN
SHEET NO.

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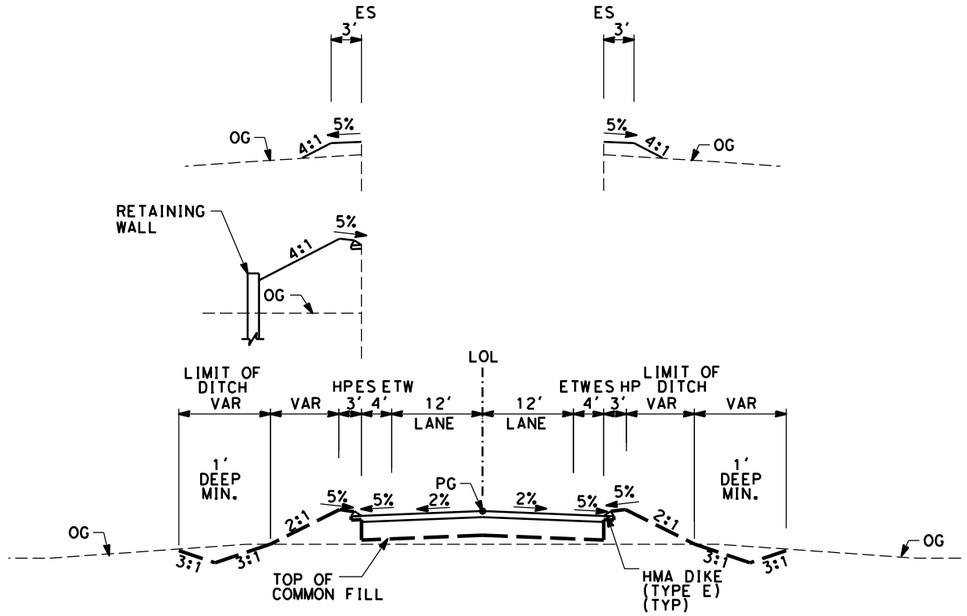
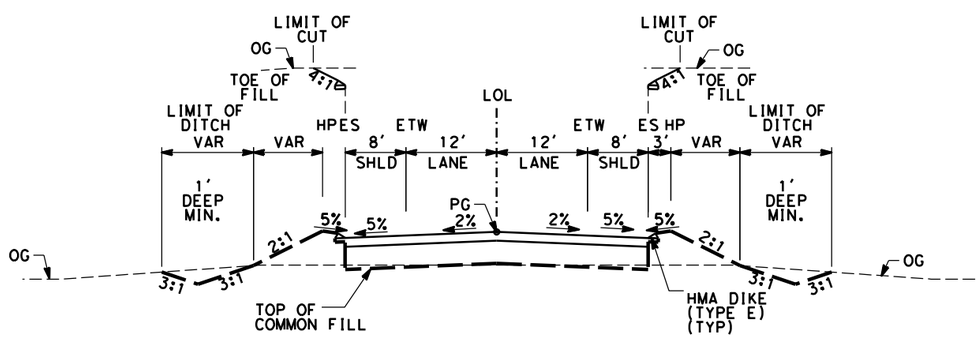


SECTION A

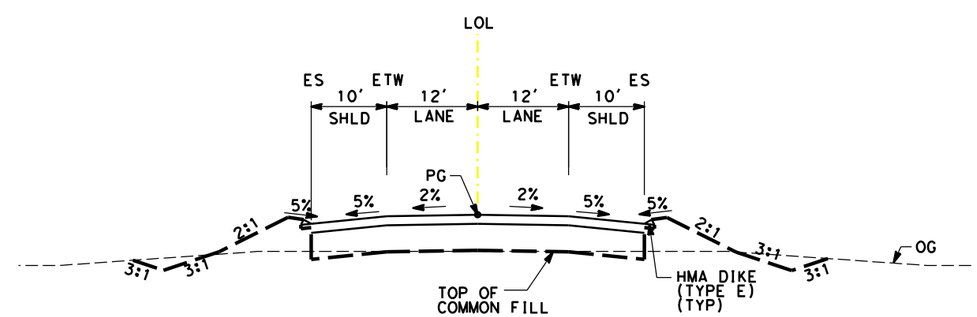
"KID" 10+00.00 TO 27+50.25
"KID" 28+26.25 TO 46+00.00
"KJE" 1+00.00 TO 10+00.00
"KKE" 11+00.00 TO 32+92.75
"KKE" 33+72.75 TO 50+00.00
"KKA" 19+00.00 TO 44+11.50
"KKA" 44+87.50 TO 72+50.00

"KID" IDAHO AVE
"KJA" JACKSON AVE
"SR43J" SR-43 (AT JERSEY AVE)
"KJE" JERSEY AVE
"KKE" KENT AVE
"KKA" KANSAS AVE



SECTION B

"KJA" 11+00.00 TO 26+53.75
"KJA" 27+31.75 TO 47+00.00



"SR43J" 9+14.84 TO 31+13.60
"SR43J" 33+53.60 TO 55+77.32

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DESIGNED BY B. Kidd
DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 06/30/14

RECORD SET 15% DESIGN SUBMISSION
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NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT K4
TYPICAL SECTIONS

CONTRACT NO. HST 06-0003
DRAWING NO. T1015
SCALE AS SHOWN
SHEET NO.

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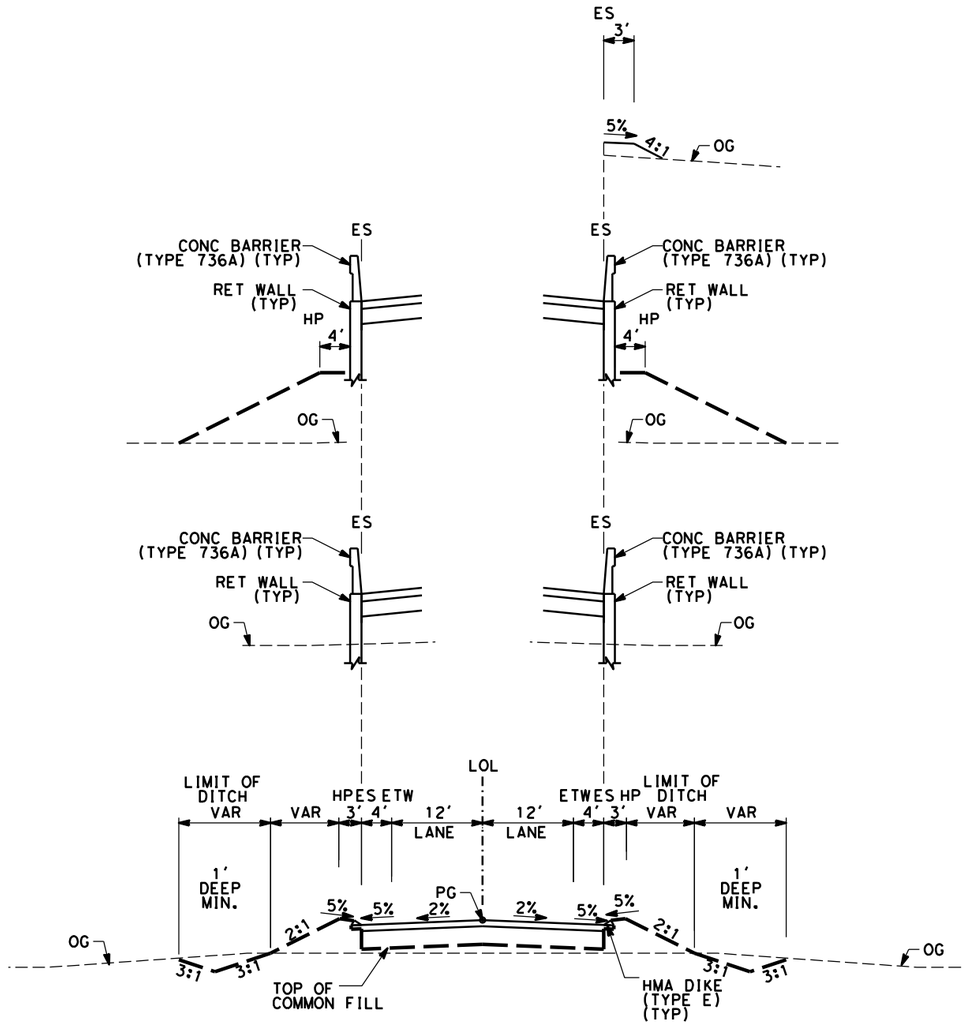
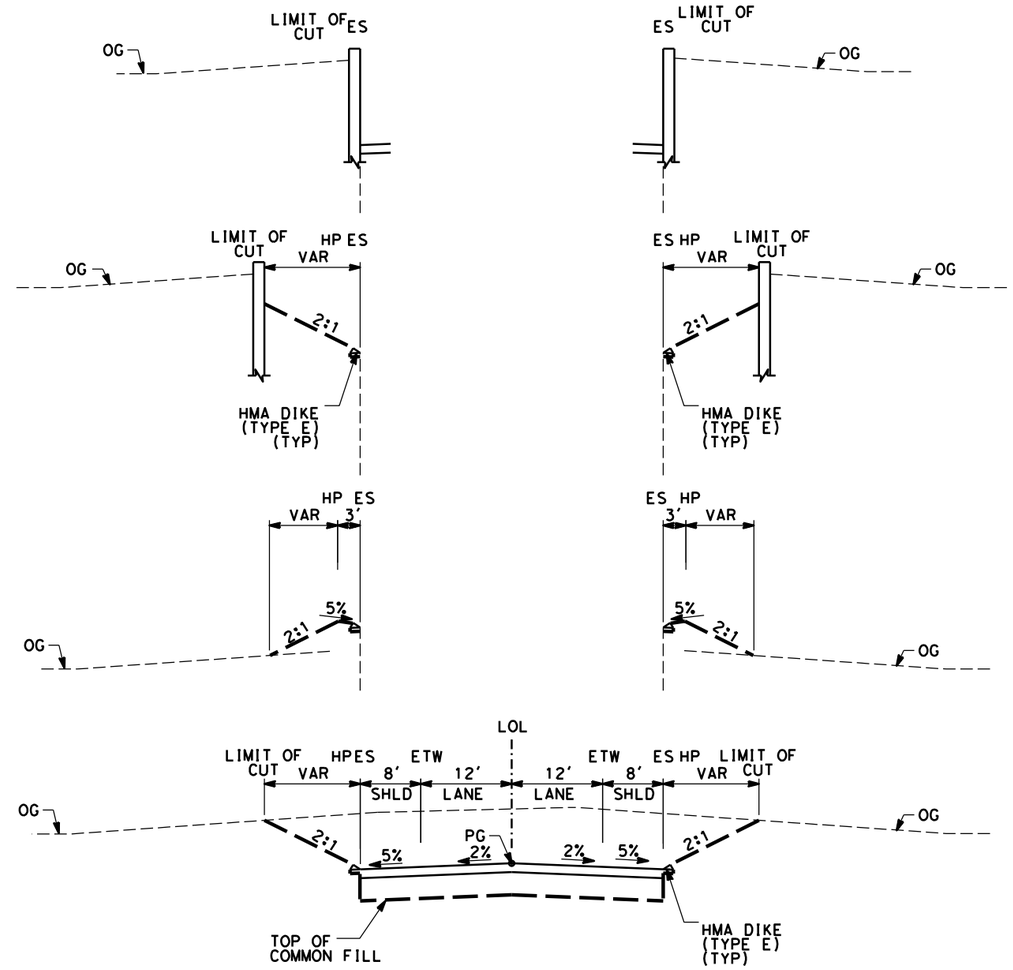


SECTION A

"KNE" 2+00.00 TO 16+00.00
"KNE" 22+60.00 TO 39+53.81
"KWA" 11+80.00 TO 26+17.75
"KWA" 27+97.25 TO 42+70.80



SECTION B

"SR137" 10+39.23 TO 33+00.00

"KNE"	NEVADA AVE
"KNEC"	NEVADA AVE CONNECTOR
"KWA"	CORCORAN HWY
"K5A"	5TH AVE/ORANGE AVE
"KOR"	ORANGE CONNECTOR
"SR137"	WHITLEY AVE / STATE ROUTE 137
"KNW"	NILE AVE
"K5H"	5 1/2 AVE

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT K4
TYPICAL SECTIONS

CONTRACT NO. HST 06-0003
DRAWING NO. T1016
SCALE AS SHOWN
SHEET NO.

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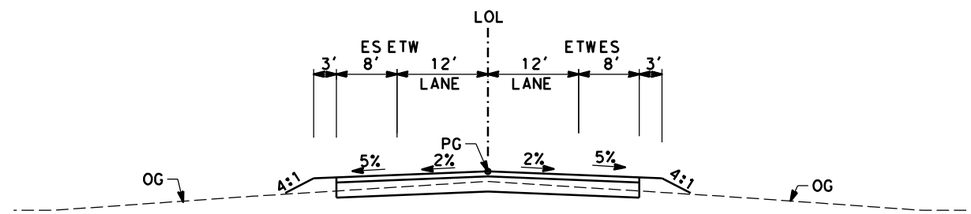
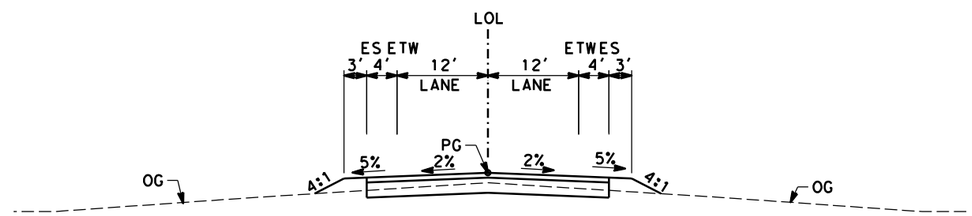


SECTION C

"KOR" 10+00.00 TO 21+26.50



SECTION D

"KNEC" 0+00.00 TO 18+42.83
"KNW" 10+00.00 TO 29+01.11
"K5H" 1+00.00 TO 17+50.00
"K5A" 0+00.00 TO 22+57.76

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DRAWN BY	S. Partington
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	06/30/14

RECORD SET 15% DESIGN SUBMISSION
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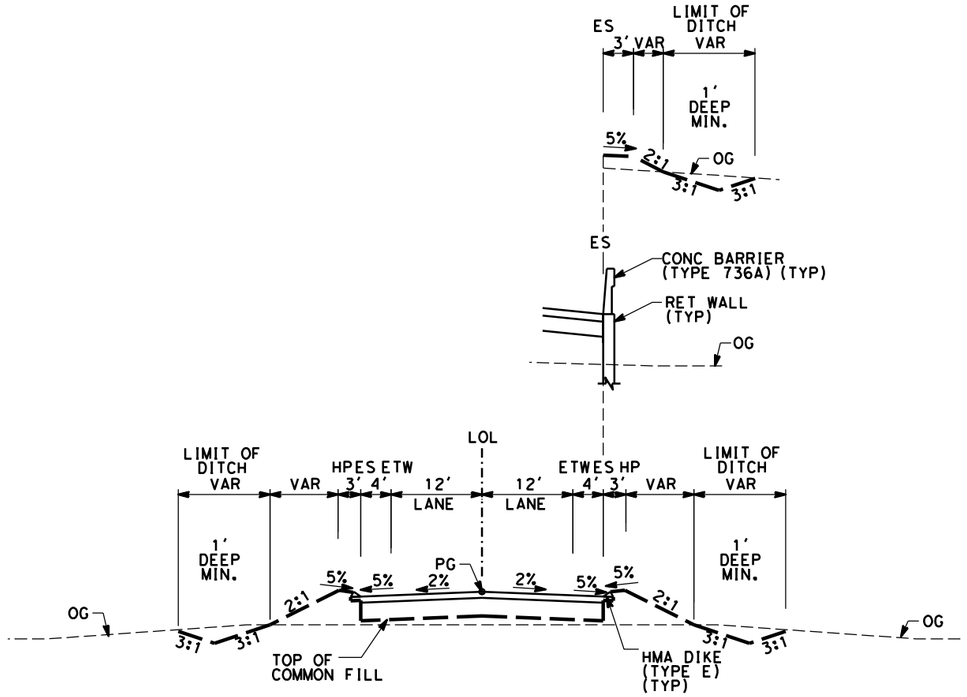
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

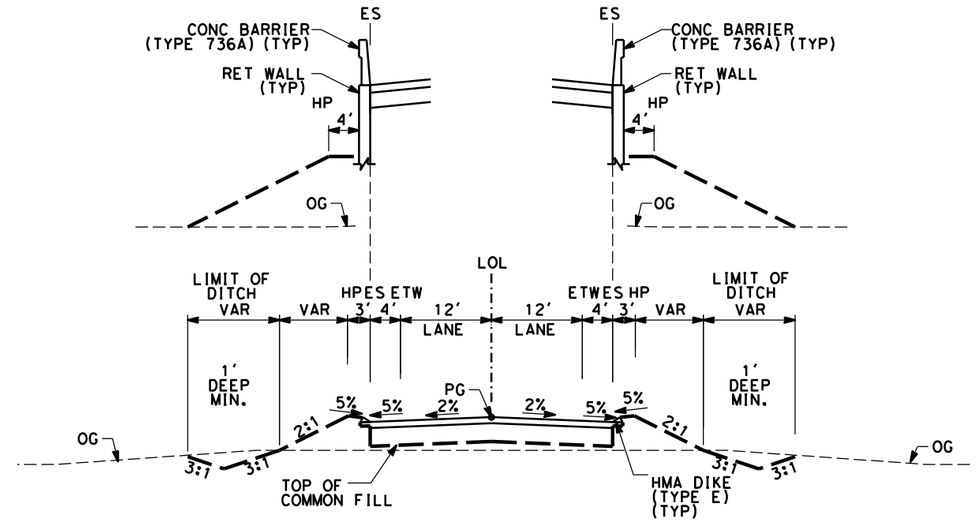
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT K4
TYPICAL SECTIONS

CONTRACT NO.	HST 06-0003
DRAWING NO.	T1017
SCALE	AS SHOWN
SHEET NO.	



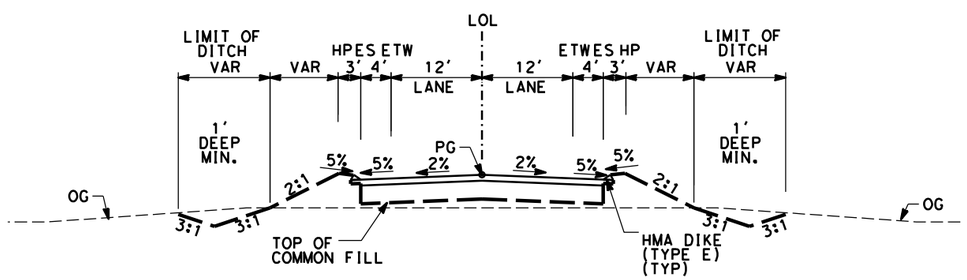
SECTION A

"HA" 8+38.32 TO 24+51.00
"HA" 27+88.00 TO 43+00.00



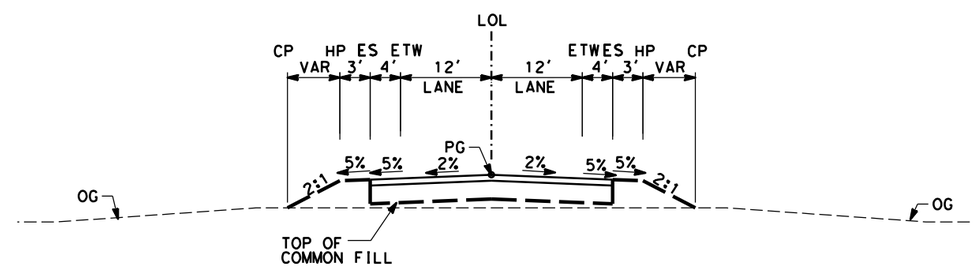
SECTION C

"A88" 30+00.00 TO 49+51.00
"A88" 52+81.00 TO 65+14.15



SECTION B

"HAI" 52+64.01 TO 71+66.55



SECTION D

"A88C" 10+85.00 TO 22+93.09

"A88"	AVENUE 88
"A88C"	AVENUE 88 CONNECTOR
"HA"	HESSE AVE
"HAI"	HESSE AVE INTERSECTION

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DRAWN BY S. Partington
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 06/30/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT P
TYPICAL SECTIONS

CONTRACT NO. HST 06-0003
DRAWING NO. T1018
SCALE AS SHOWN
SHEET NO.

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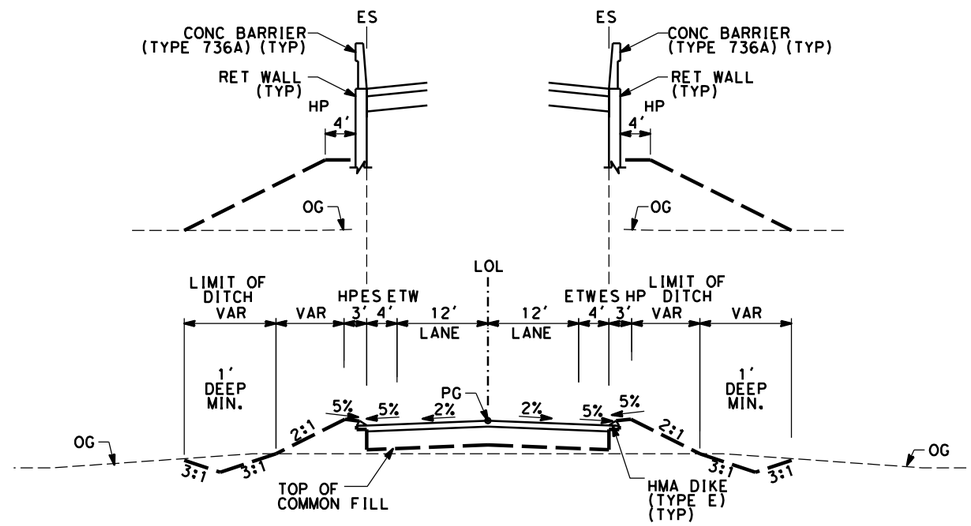

SECTION A

"J22" 32+50.00 TO 48+23.50
"J22" 49+14.50 TO 64+50.00

"J22" COUNTY ROAD J22

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CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 06/30/14

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-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT A1
TYPICAL SECTIONS

CONTRACT NO. HST 06-0003
DRAWING NO. T1019
SCALE AS SHOWN
SHEET NO.

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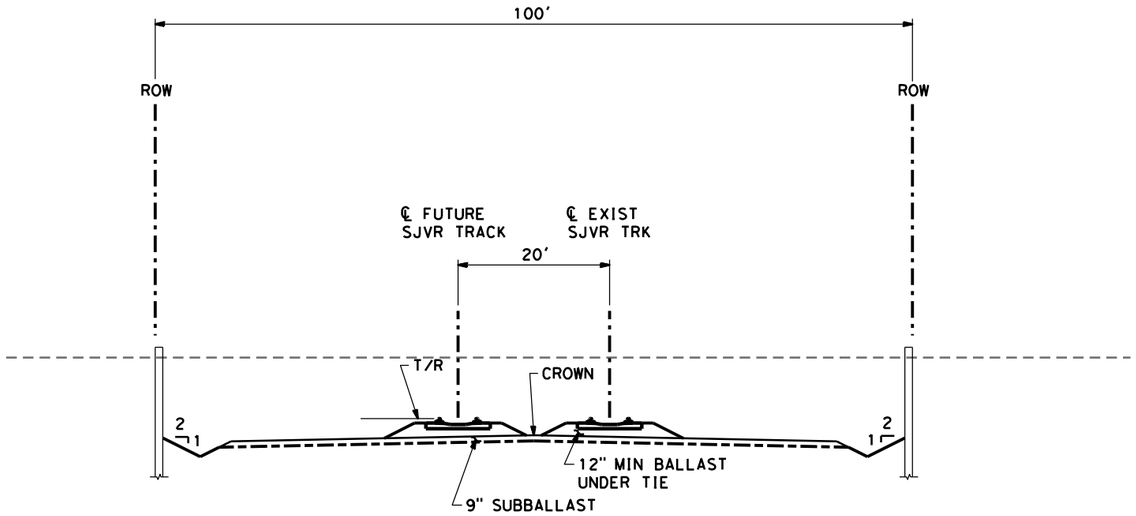
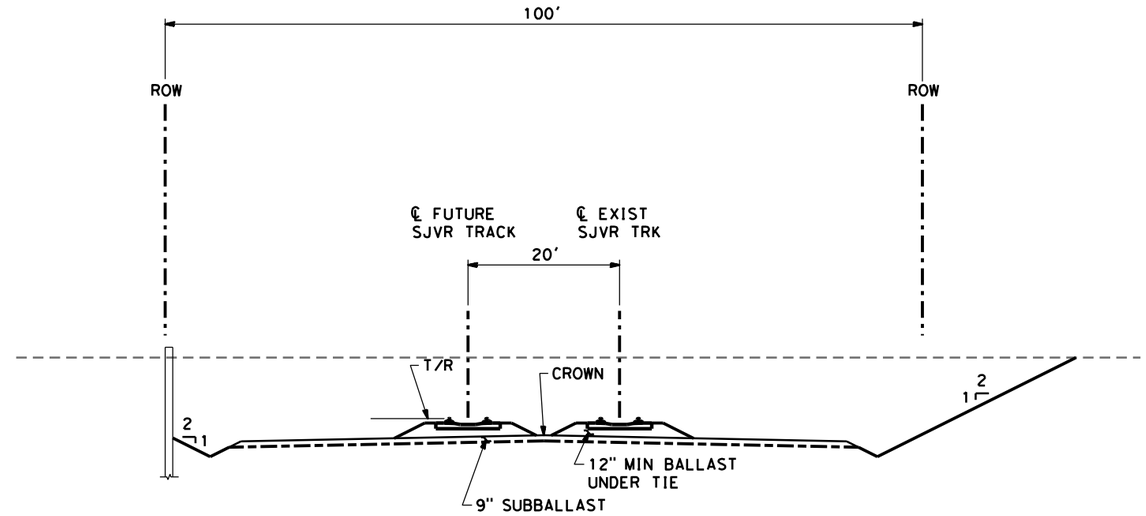
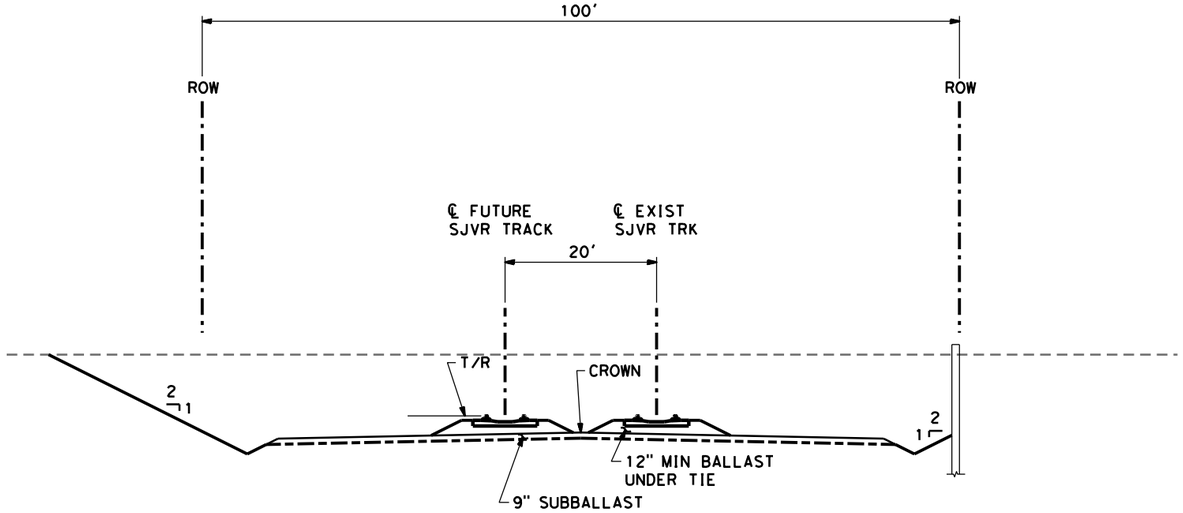


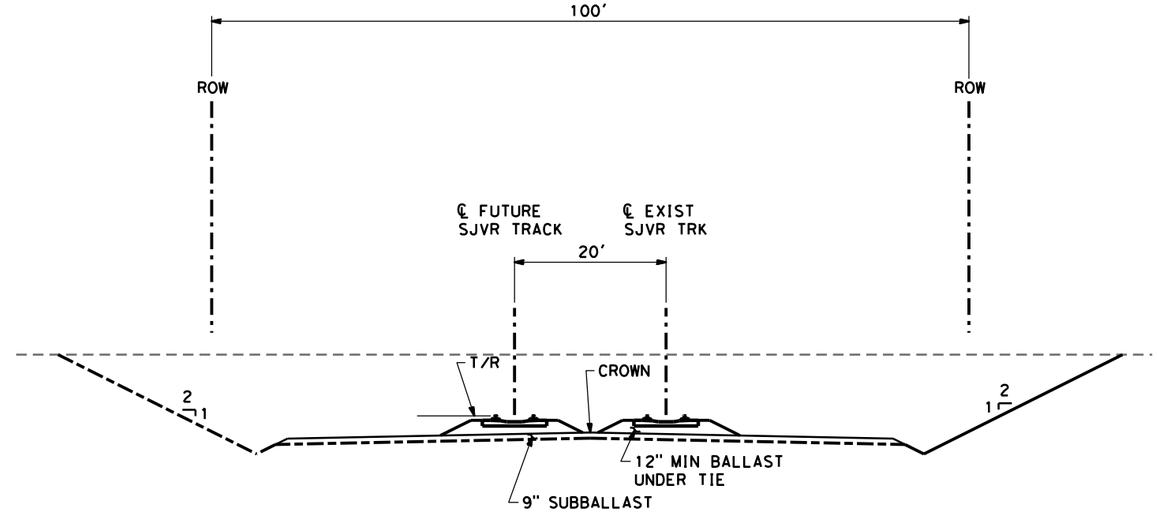
STA 114+00 TO 119+00



STA 156+40 TO 157+70



STA 119+00 TO 125+00
STA 174+90 TO 179+20



STA 125+00 TO 156+40
STA 157+70 TO 173+20
STA 179+20 TO 203+30

DISCLAIMER:
THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE HSR AND ROADWAY DESIGN ENHANCEMENTS. DRAINAGE, UTILITIES, AND IRRIGATION CANALS ARE NOT SHOWN. THE HSR PROFILE IS BASED ON DRAINAGE AND WILDLIFE CROSSINGS IN THE RFP DESIGN AND THE DFS PROPOSED ATC DESIGNS AS SUBMITTED AND ACCEPTED BY THE AUTHORITY. THIS DOCUMENT AND ASSOCIATED ENGINEERING DETAILS REFLECT PRELIMINARY SCHEMATIC-LEVEL DESIGN ONLY. THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION.

DESIGNED BY M.LOPEZ-DUBOIS
DRAWN BY P. BARNEY
CHECKED BY E. Karam
IN CHARGE R. Trevett
DATE 07/02/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
SJVRR
TYPICAL SECTIONS

ATC 17

CONTRACT NO. HST 06-0003
DRAWING NO. T1003
SCALE AS SHOWN
SHEET NO.

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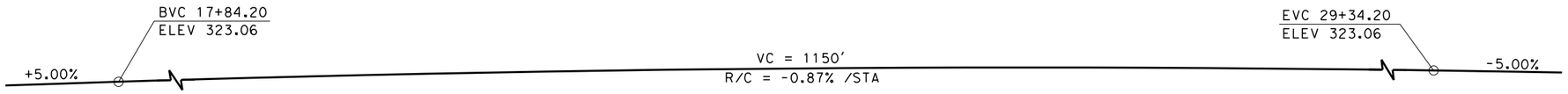
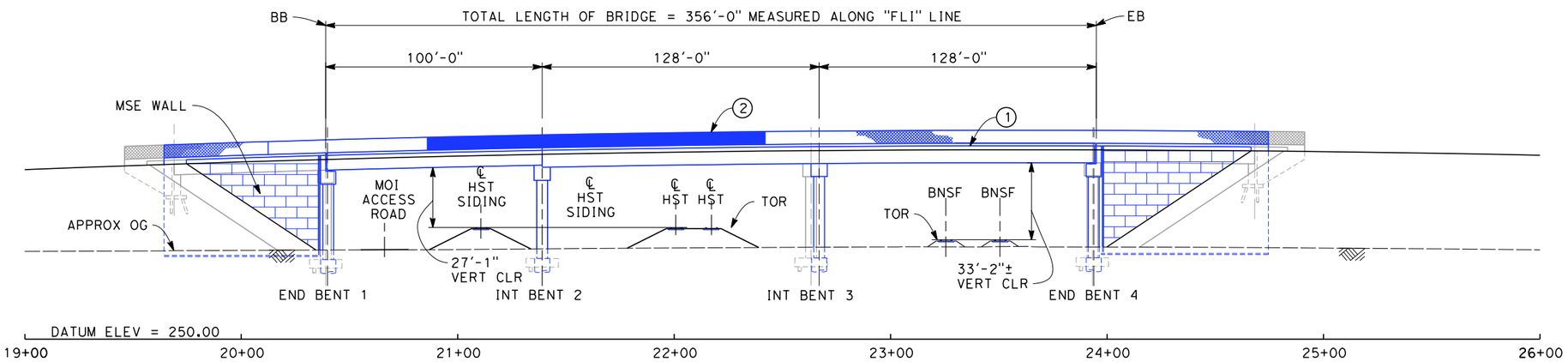


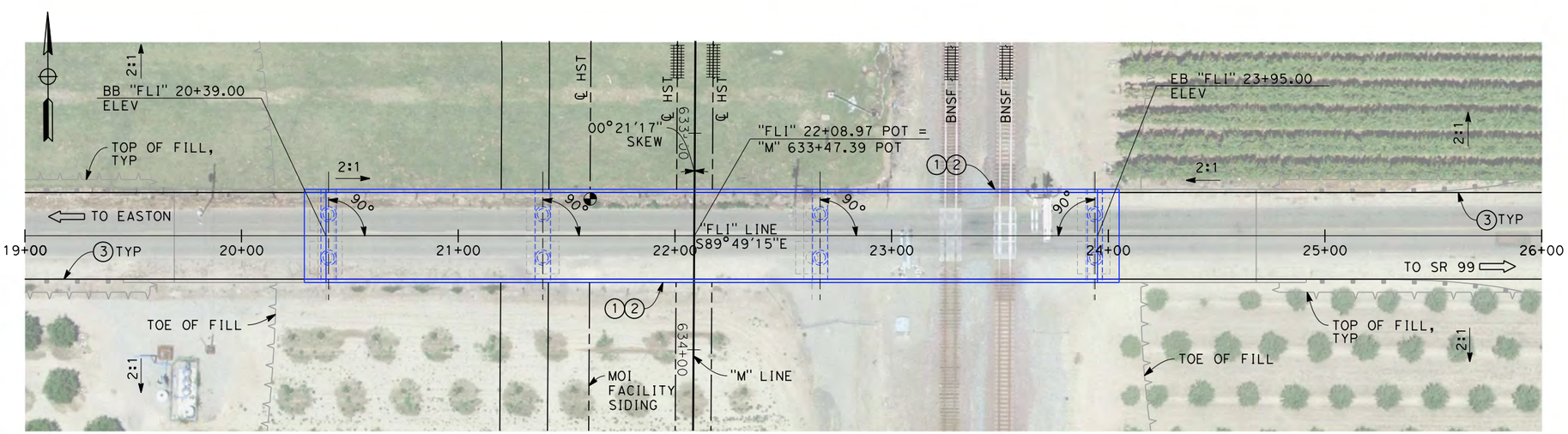
PROFILE GRADE

NO SCALE



ELEVATION

SCALE: 1"=30'



PLAN

SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60

1"=30'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. SPURGEON
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
OVERHEAD PLANNING STUDY
E LINCOLN AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2101
SCALE	AS SHOWN
SHEET NO.	2 OF 9

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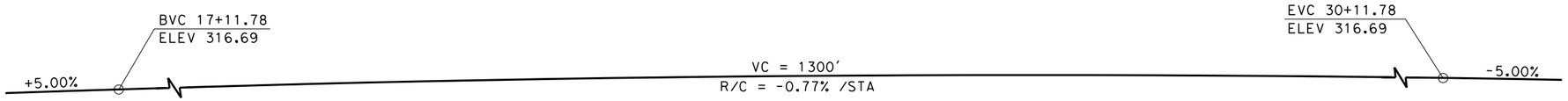
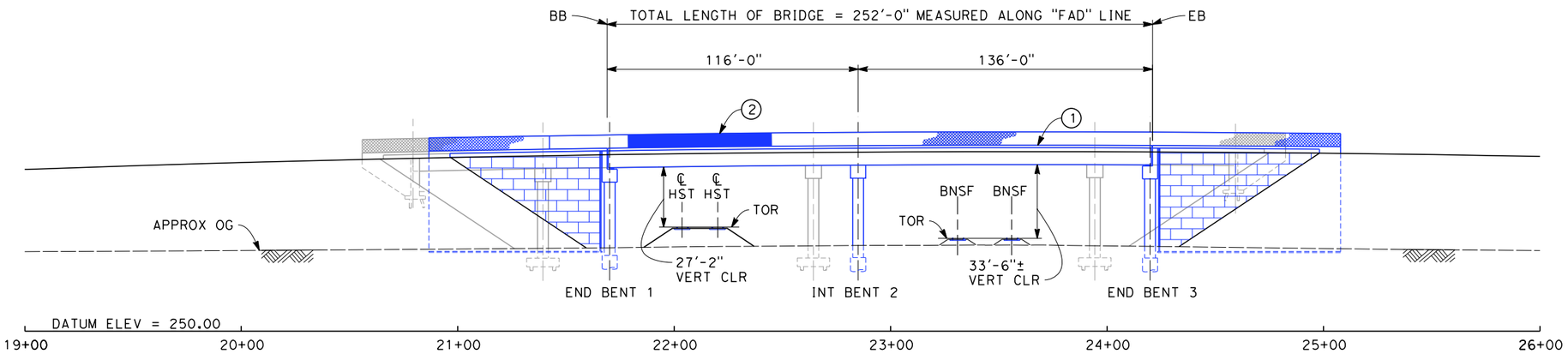
hallal



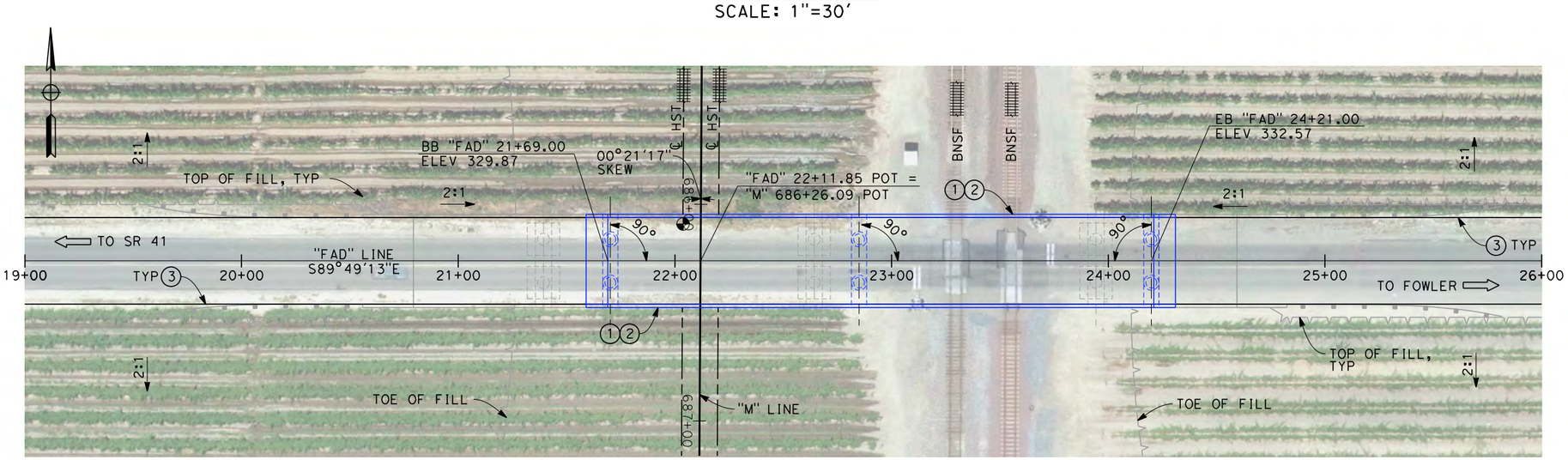
PROFILE GRADE

NO SCALE



ELEVATION

SCALE: 1"=30'



PLAN

SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60

1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. SPURGEON
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/9/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
OVERHEAD PLANNING STUDY
E ADAMS AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2103
SCALE	AS SHOWN
SHEET NO.	3 OF 9

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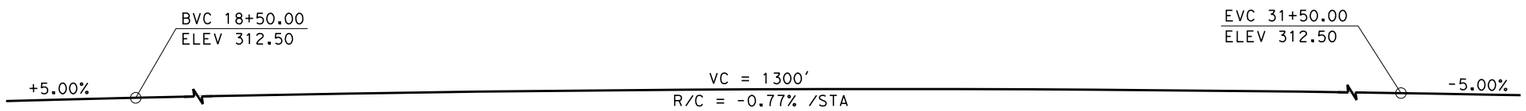
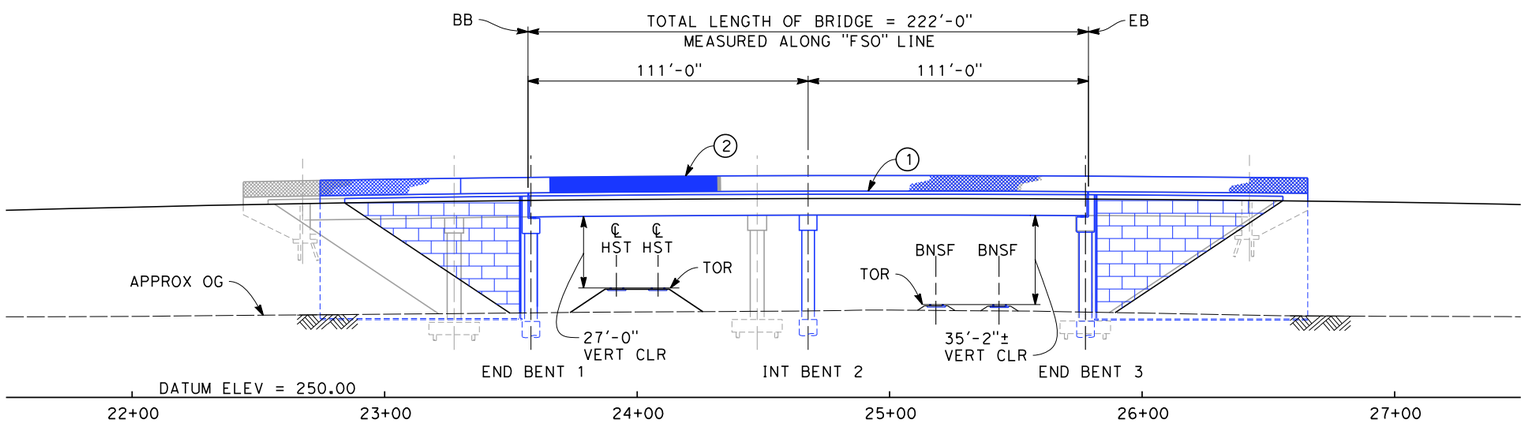
hallal



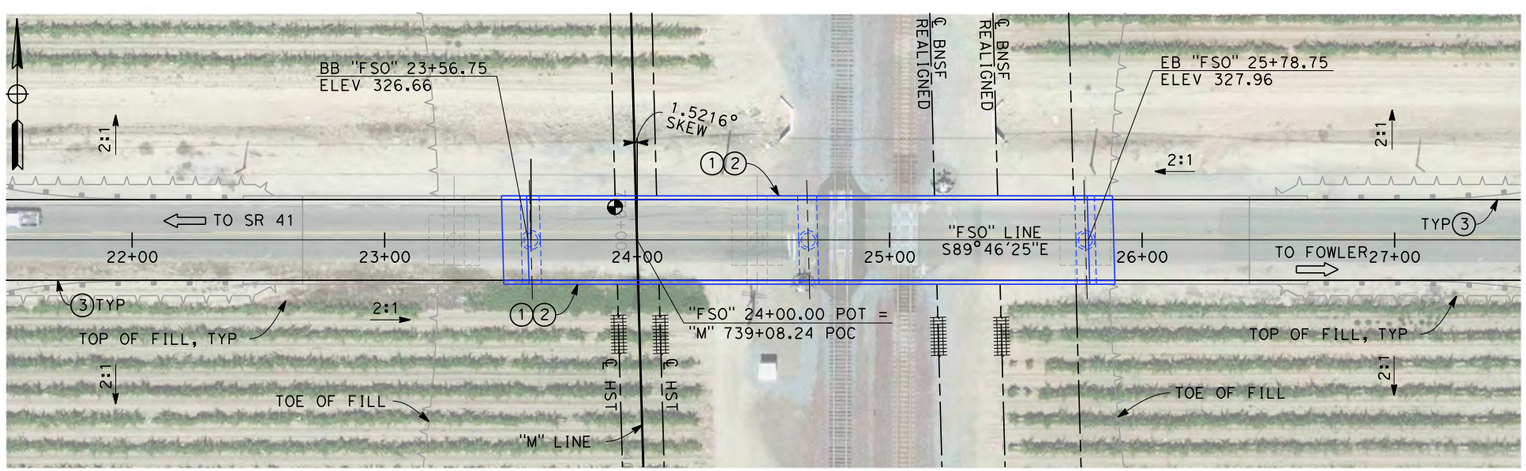
PROFILE GRADE

NO SCALE



ELEVATION

SCALE: 1"=30'



PLAN

SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60

1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. SPURGEON
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
OVERHEAD PLANNING STUDY
E SOUTH AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2104
SCALE	AS SHOWN
SHEET NO.	4 OF 9

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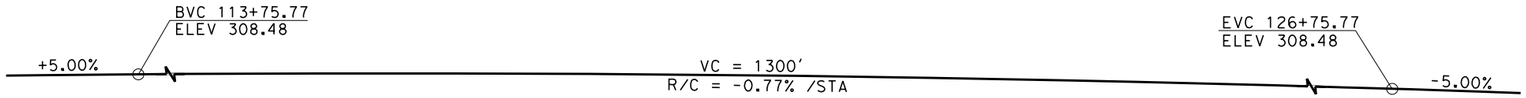
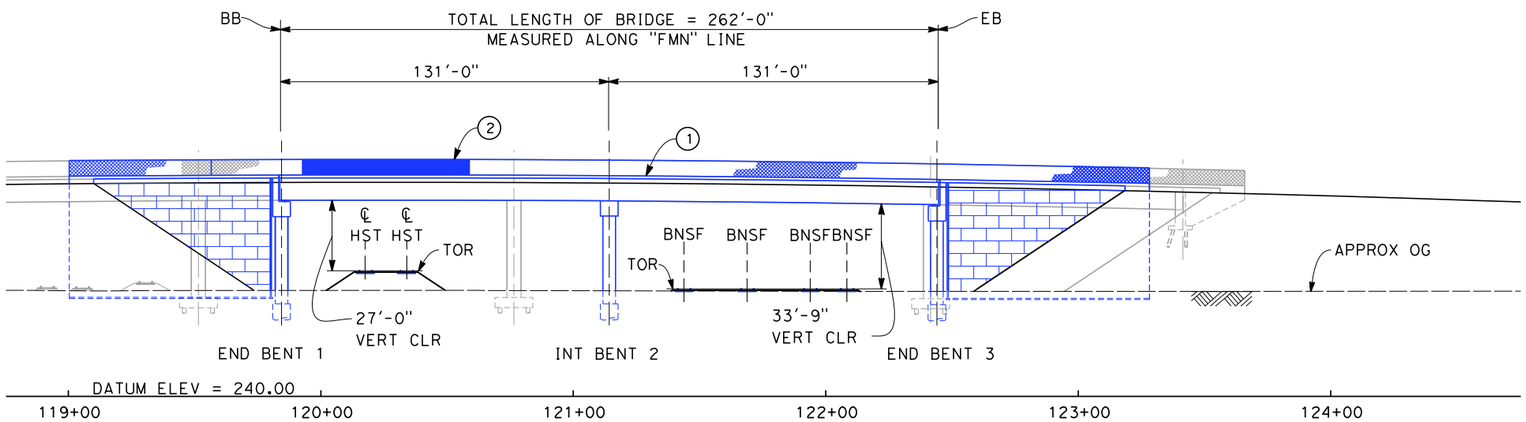
hallal



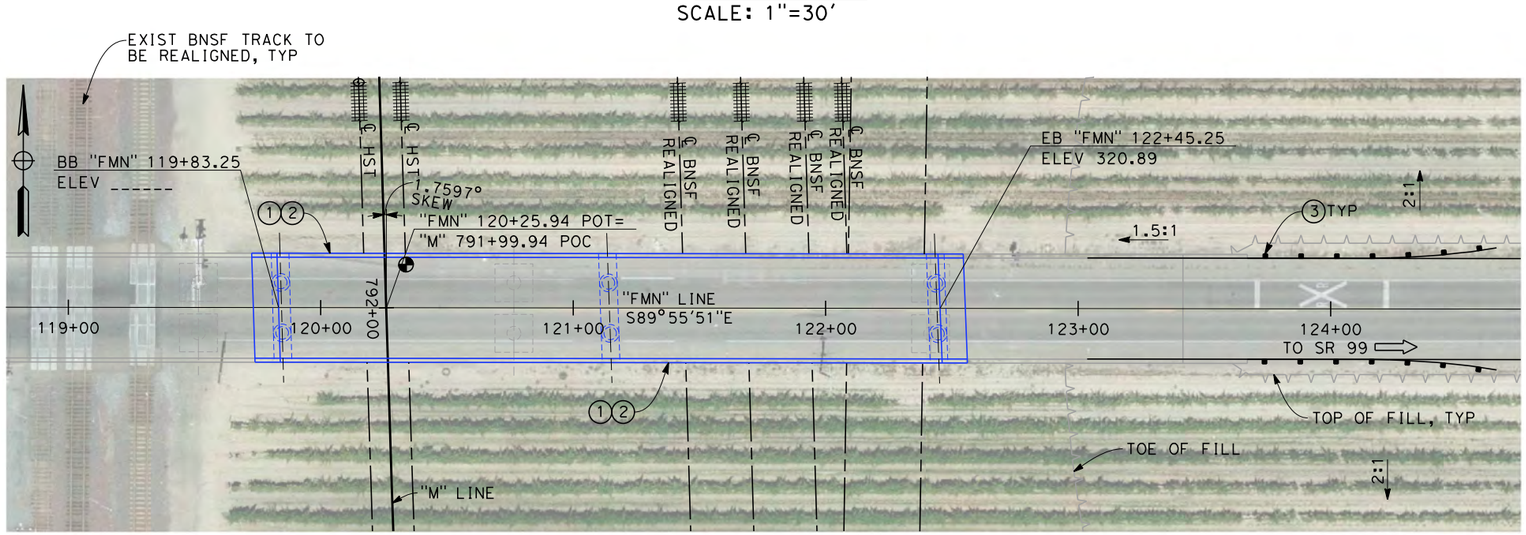
PROFILE GRADE

NO SCALE



ELEVATION

SCALE: 1"=30'



PLAN

SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60

1"=30'

DISCLAIMER:
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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. SPURGEON
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
OVERHEAD PLANNING STUDY
E MANNING AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2107
SCALE	AS SHOWN
SHEET NO.	6 OF 9

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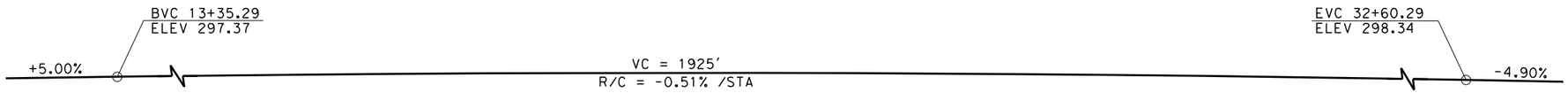
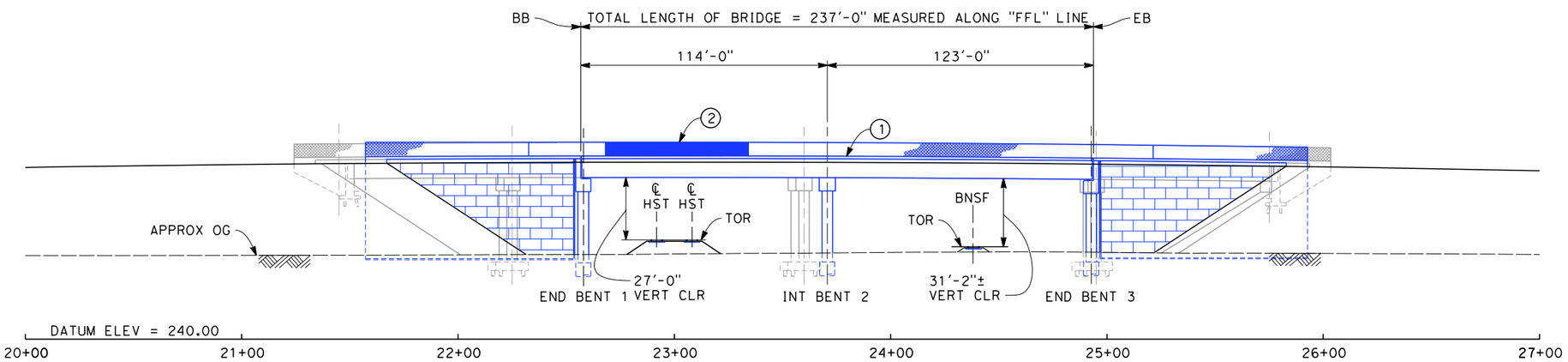
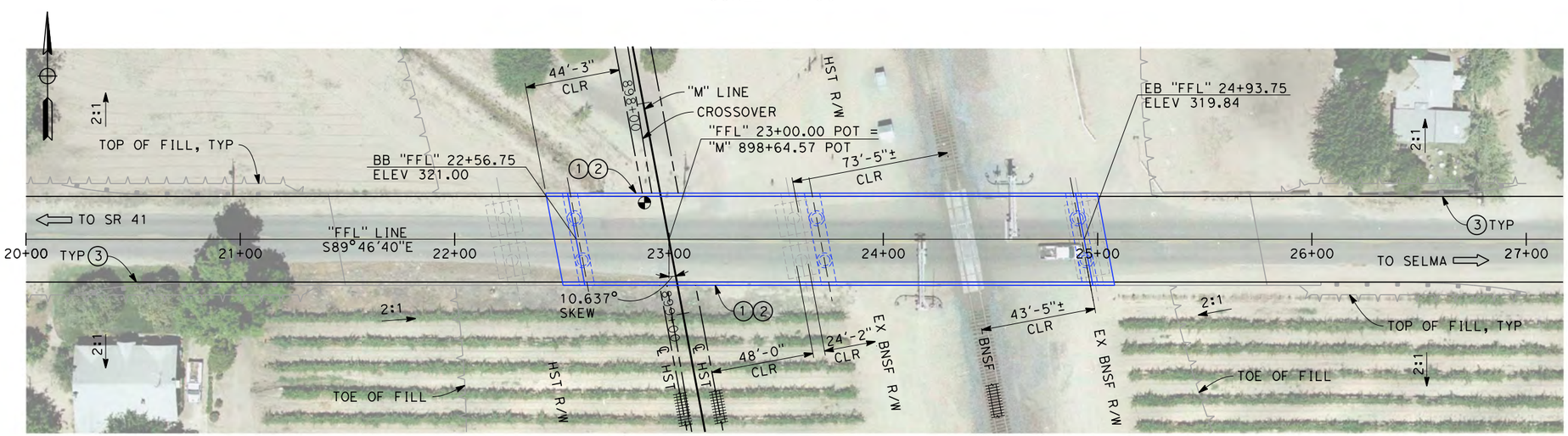
hall1



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:
1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN
DFS PROPOSED

30 0 30 60
1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. SPURGEON
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
OVERHEAD PLANNING STUDY
E FLORAL AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2109
SCALE	AS SHOWN
SHEET NO.	7 OF 9

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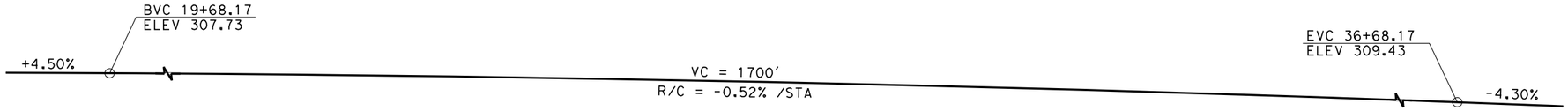
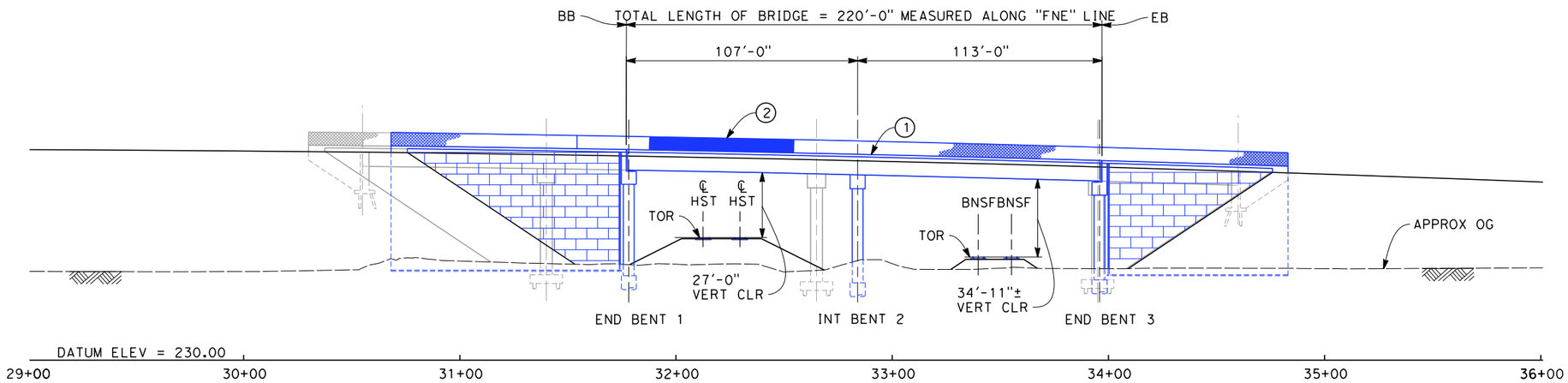
hallal



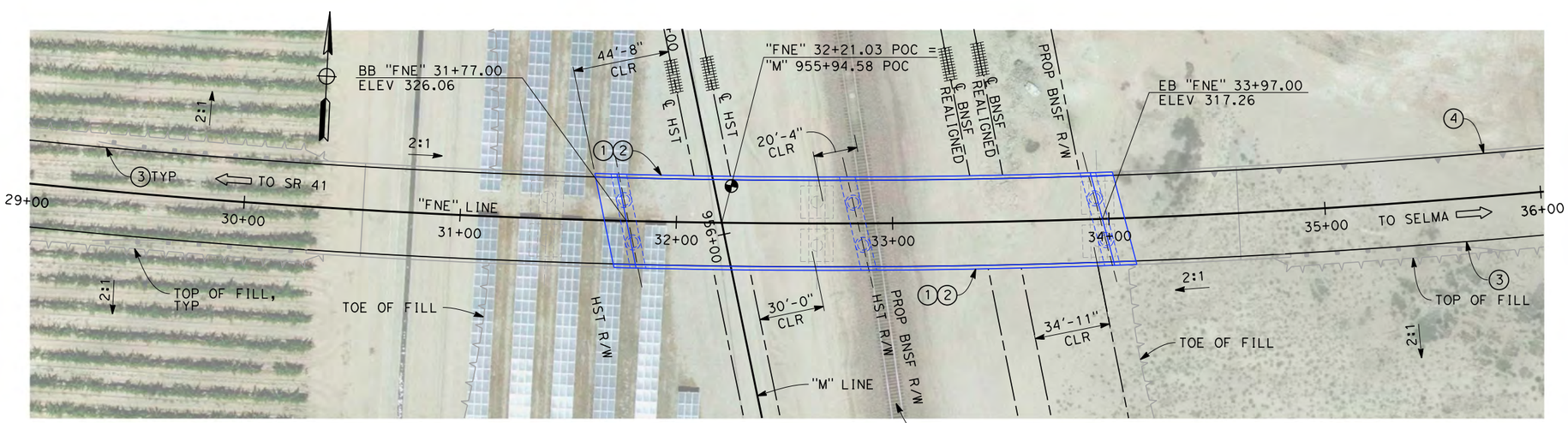
PROFILE GRADE

NO SCALE



ELEVATION

SCALE: 1"=30'



PLAN

SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR
4. RETAINING WALL

RFP DESIGN

DFS PROPOSED

30 0 30 60

1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. SPURGEON
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

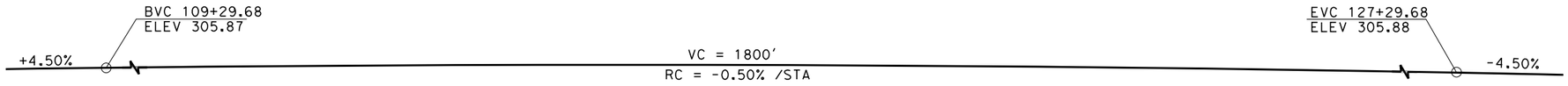
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

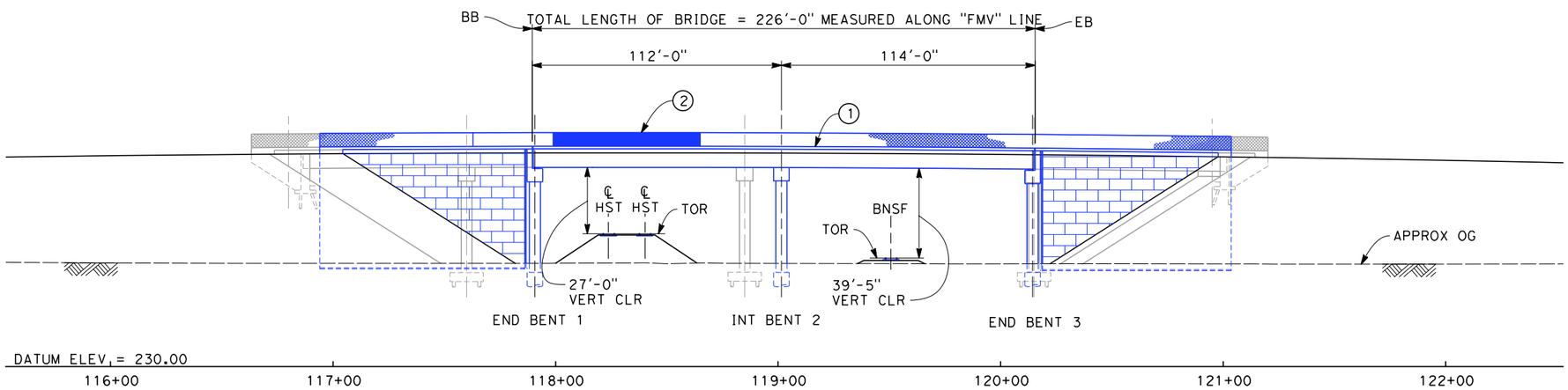
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
OVERHEAD PLANNING STUDY
E NEBRASKA AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2111
SCALE	AS SHOWN
SHEET NO.	8 OF 9

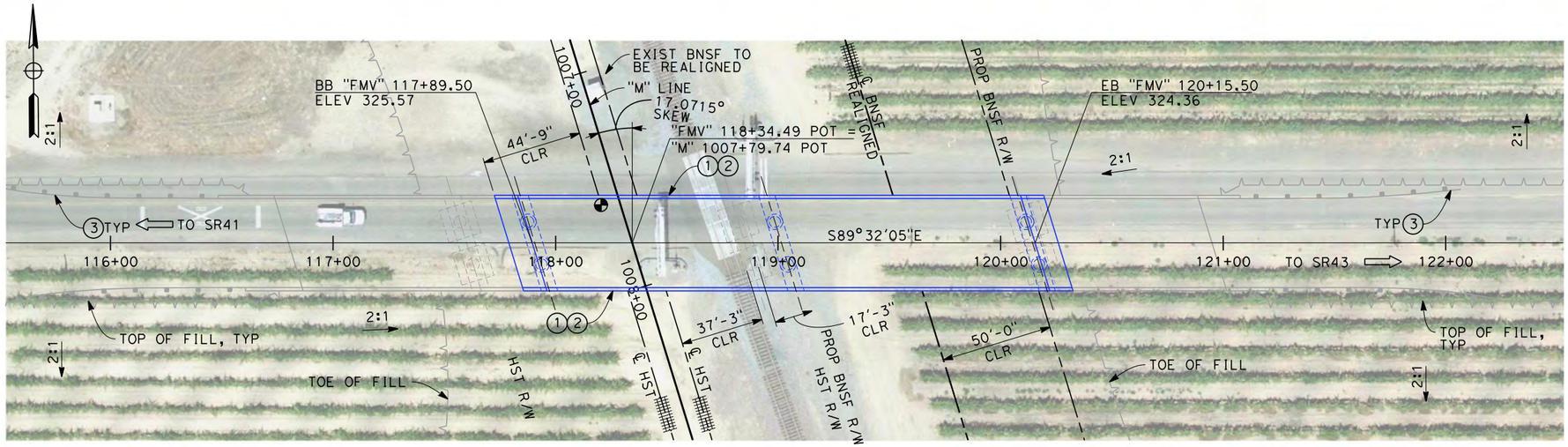
10/10/2014 11:06:53 AM c:\pwworking\nai\hallal\d0175802\FB-ST-2111-M.dgn
hallal



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

DISCLAIMER:
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DESIGNED BY	C. CAYWOOD
DRAWN BY	M.SPURGEON
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

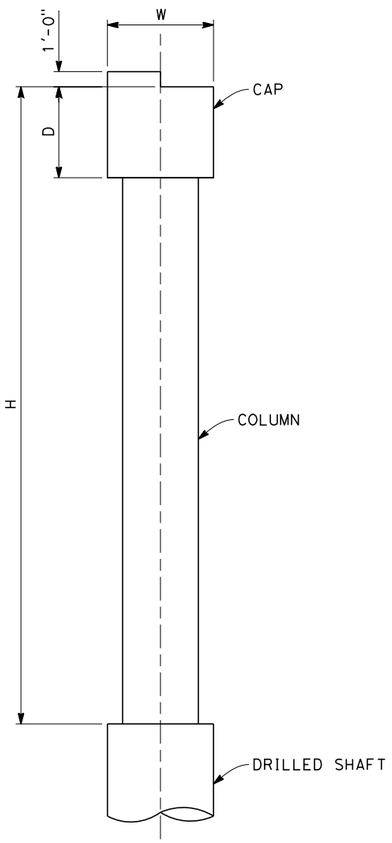
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

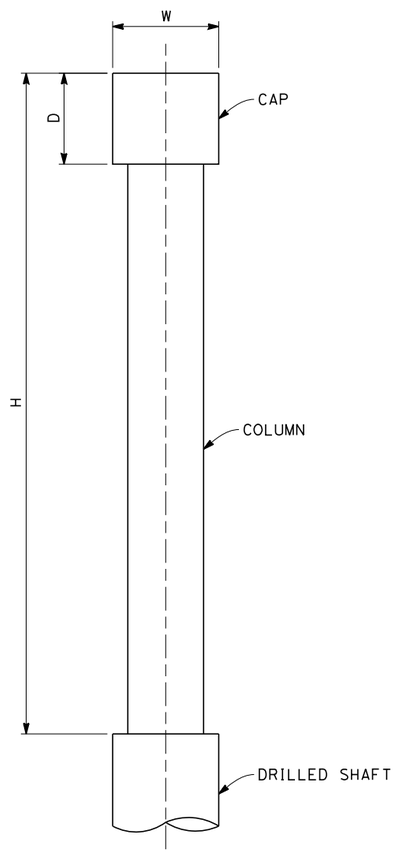
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
OVERHEAD PLANNING STUDY
E MOUNTAIN VIEW AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2113
SCALE	AS SHOWN
SHEET NO.	9 OF 9

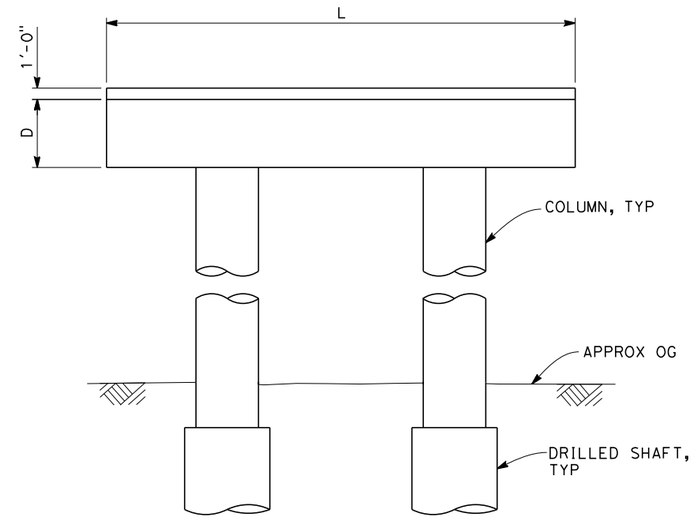
10/10/2014 11:16:02 AM c:\pwworking\nai\hall1\d0175802\FB-ST-2113-M.dgn
hall1



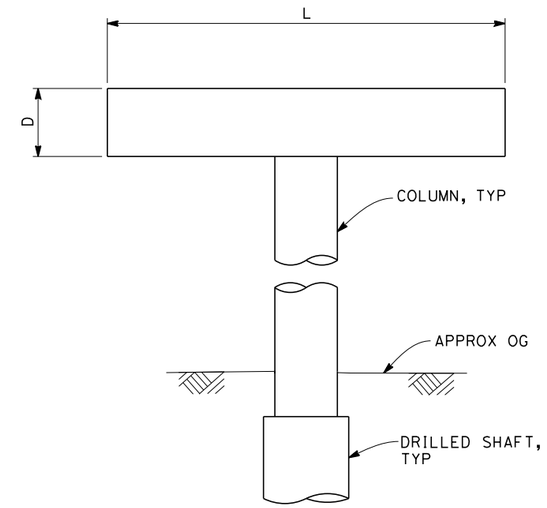
SECTION 1
SCALE: 1"=5'



SECTION 2
SCALE: 1"-5'



ELEVATION 1
SCALE: NTS



ELEVATION 2
SCALE: NTS

BRIDGE NAME	TOTAL BRIDGE L (FT)	SKEW ANGLE (DEGREES)	NO. OF BENT (EACH)	CAP LENGTH (FT)	CAP WIDTH (FT)	CAP DEPTH (FT)	COLUMN DIA (FT)	APPROX COL HT (FT)	CIDH SHAFT DIA (FT)	NO. OF COL/SHAFT (EACH)	TOTAL CIDH SHAFT LENGTH (FT)
E LINCOLN AVE	356	90	2	43	7.0	6.0	5.0	33.5	7.5	2	42
E ADAMS AVE	252	90	2	43	7.0	43	5.0	34.3	7.0	2	55
E SOUTH AVE	222	88	1	35	7.5	6.5	5.5	34.3	7.0	1	60
E MANNING AVE	262	88	2	43	7.0	6.0	5.0	27.8	7.0	2	78
E FLORAL AVE	237	79	2	43	7.0	6.0	5.0	33.3	7.0	2	87
E NEBRASKA AVE	220	77	2	43	7.0	6.0	5.0	32.0	7.0	2	87
E MOUNTAIN VIEW AVE	226	73	2	43	7.0	77.0	5.0	39.5	7.0	2	92

DISCLAIMER:
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DESIGNED BY C. CAYWOOD
DRAWN BY M. SPURGEON
CHECKED BY D. JONES
IN CHARGE R. TREVETT
DATE 10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BENT DETAILS
ALIGNMENT M
OVERHEAD PLANNING STUDY
SHEET 1 OF 2

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

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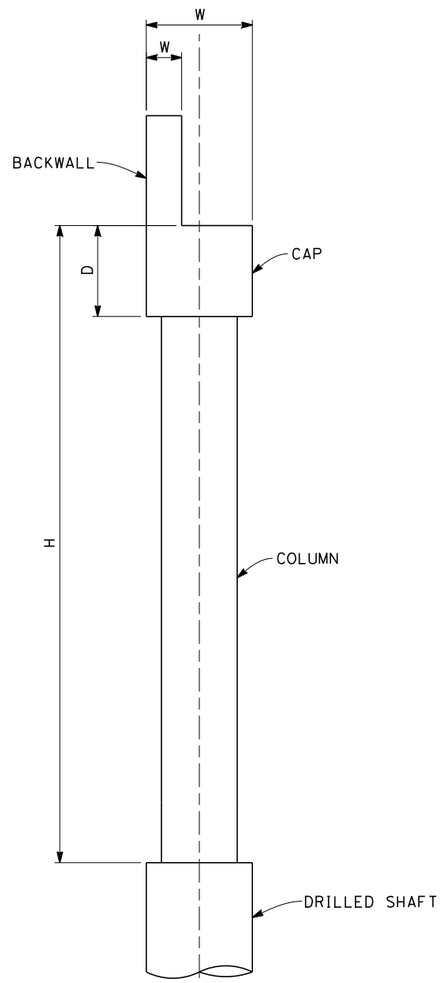
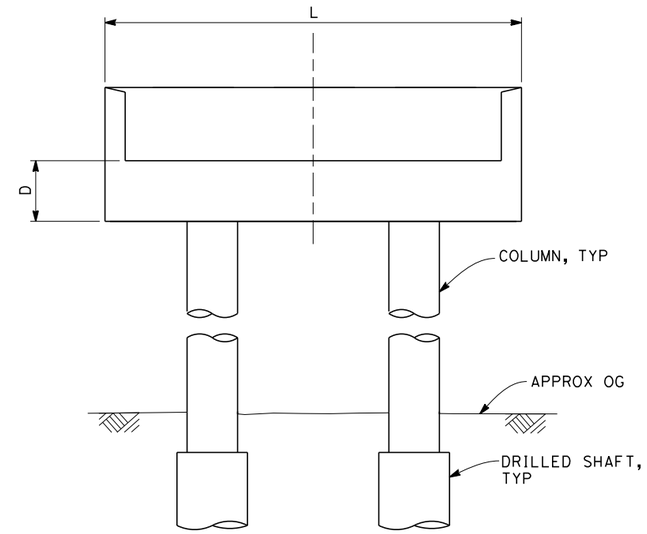
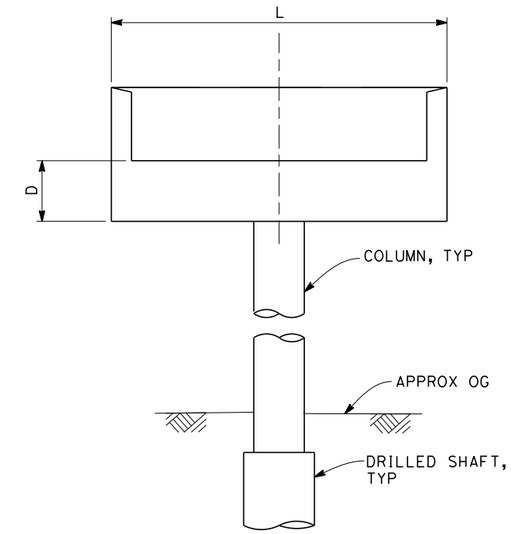
haildl



SECTION
SCALE: 1"=5'



ELEVATION 1
SCALE: NTS



ELEVATION 2
SCALE: NTS

BRIDGE NAME	TOTAL BRIDGE L (FT)	SKEW ANGLE (DEGREES)	NO. OF BENT (EACH)	CAP LENGTH (FT)	CAP WIDTH (FT)	CAP DEPTH (FT)	COLUMN DIA (FT)	APPROX COL HT (FT)	BACKWALL WIDTH (FT)	NO.OF COLUMN (EACH)
E LINCOLN AVE	356	90	2	43	7.0	6.0	5.0	33.5	1.0	2
E ADAMS AVE	252	90	2	43	7.0	43	5.0	34.3	1.0	2
E SOUTH AVE	222	88	1	35	7.5	6.5	5.5	34.3	1.0	1
E MANNING AVE	262	88	2	43	7.0	6.0	5.0	27.8	1.0	2
E FLORAL AVE	237	79	2	43	7.0	6.0	5.0	33.3	1.0	2
E NEBRASKA AVE	220	77	2	43	7.0	6.0	5.0	32.0	7.0	2
E MOUNTAIN VIEW AVE	226	73	2	43	7.0	77.0	5.0	39.5	1.0	2

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DESIGNED BY C. CAYWOOD
DRAWN BY M. SPURGEON
CHECKED BY D. JONES
IN CHARGE R. TREVETT
DATE 10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
END BENT DETAILS
ALIGNMENT M
OVERHEAD PLANNING STUDY
SHEET 2 OF 2

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

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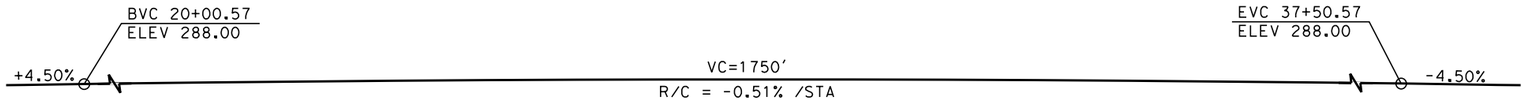
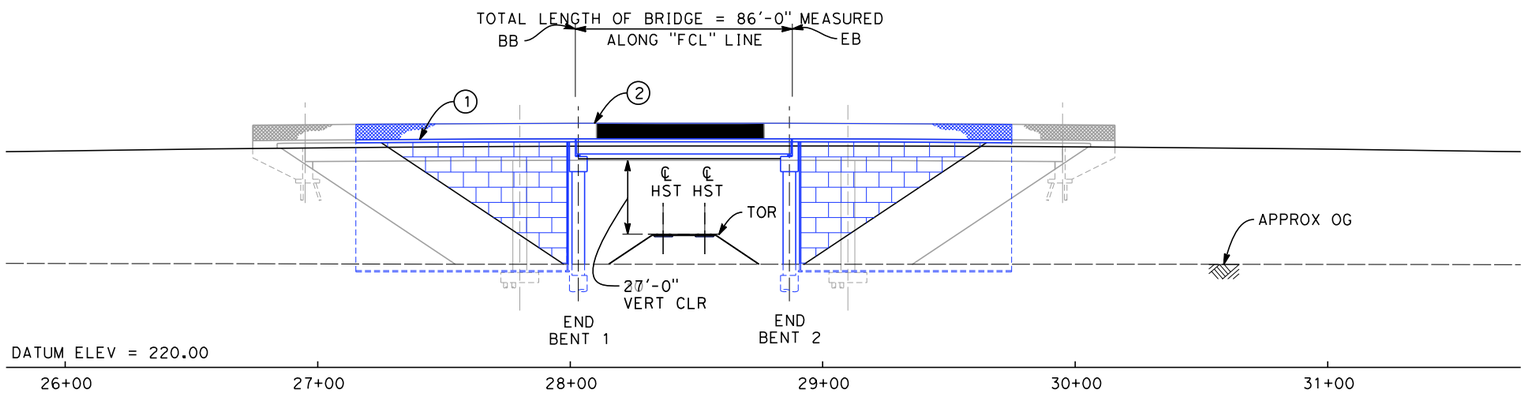
hallal



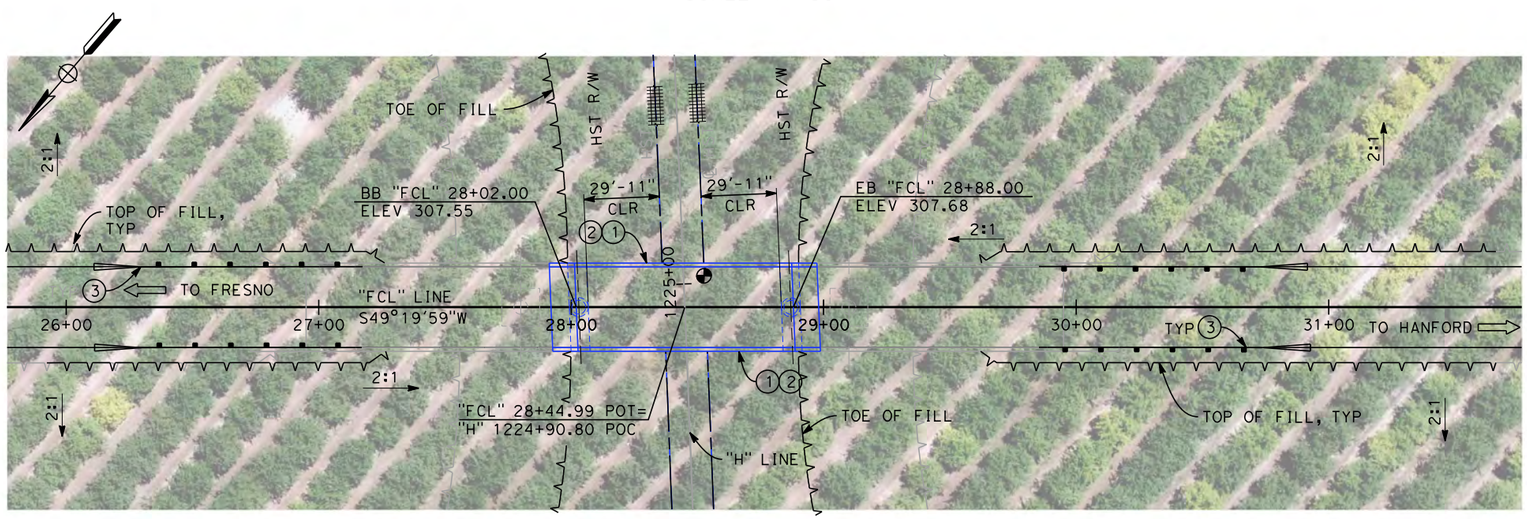
PROFILE GRADE

NO SCALE



ELEVATION

SCALE: 1"=30'



PLAN

SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60

1"=30'

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DESIGNED BY	C. HAYWOOD
DRAWN BY	M. HELM
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CONEJO SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
S CLOVIS AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2117
SCALE	AS SHOWN
SHEET NO.	2 OF 14

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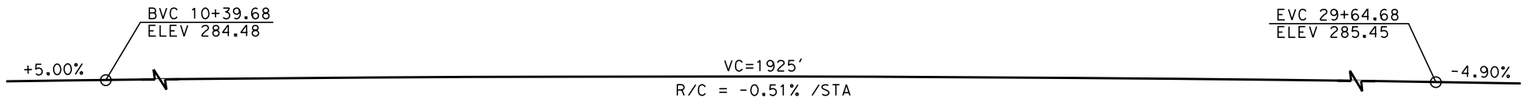
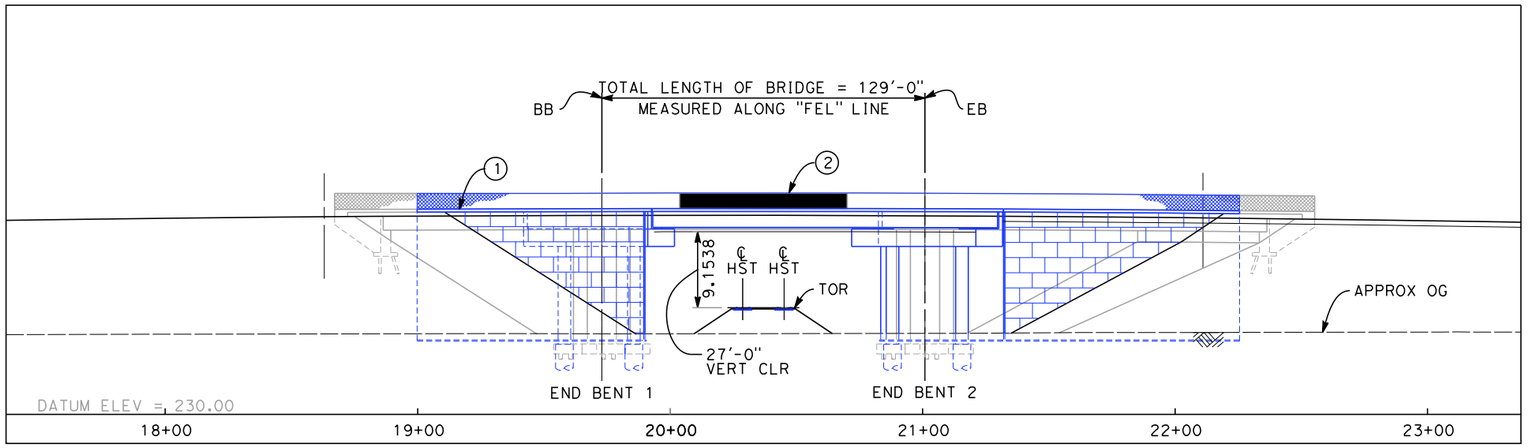
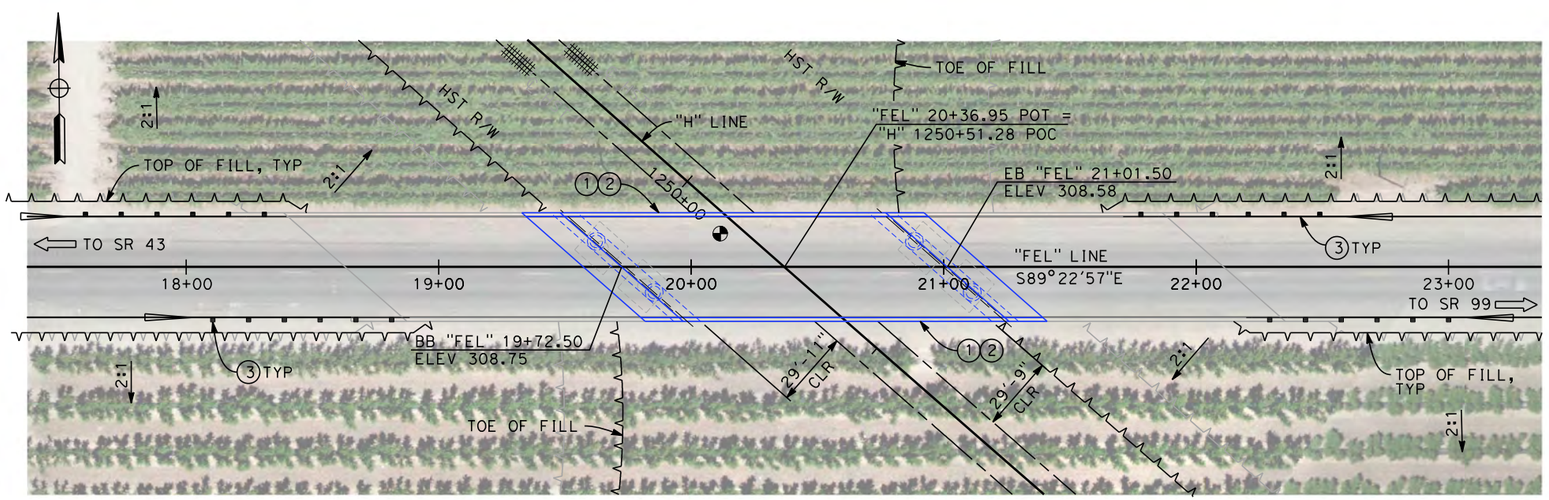
hall1



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. HELM
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CONEJO SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
E ELKHORN AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2119
SCALE	AS SHOWN
SHEET NO.	3 OF 14

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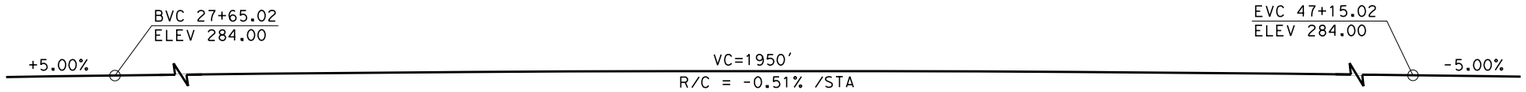
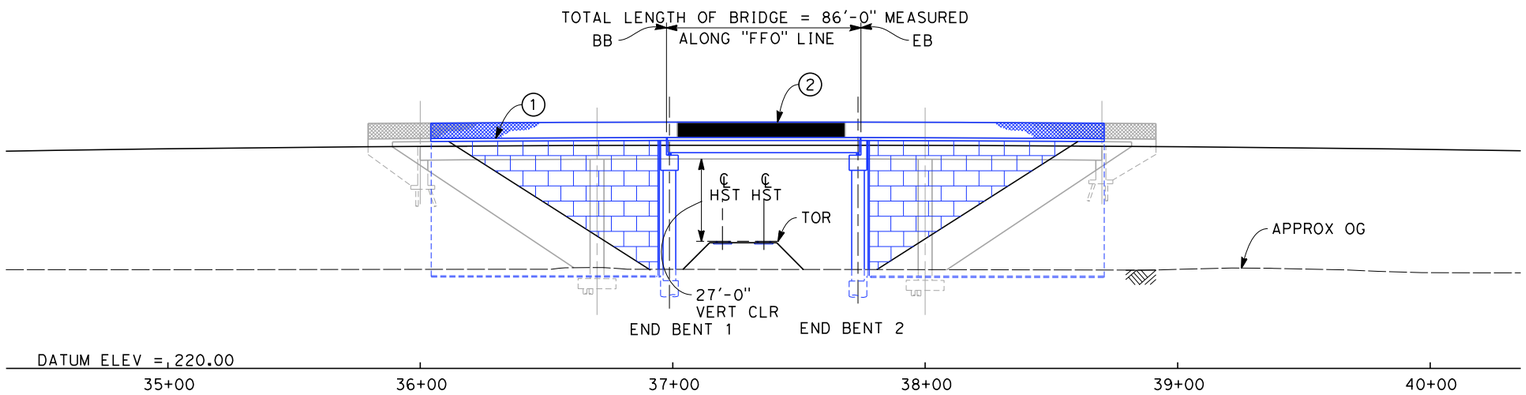
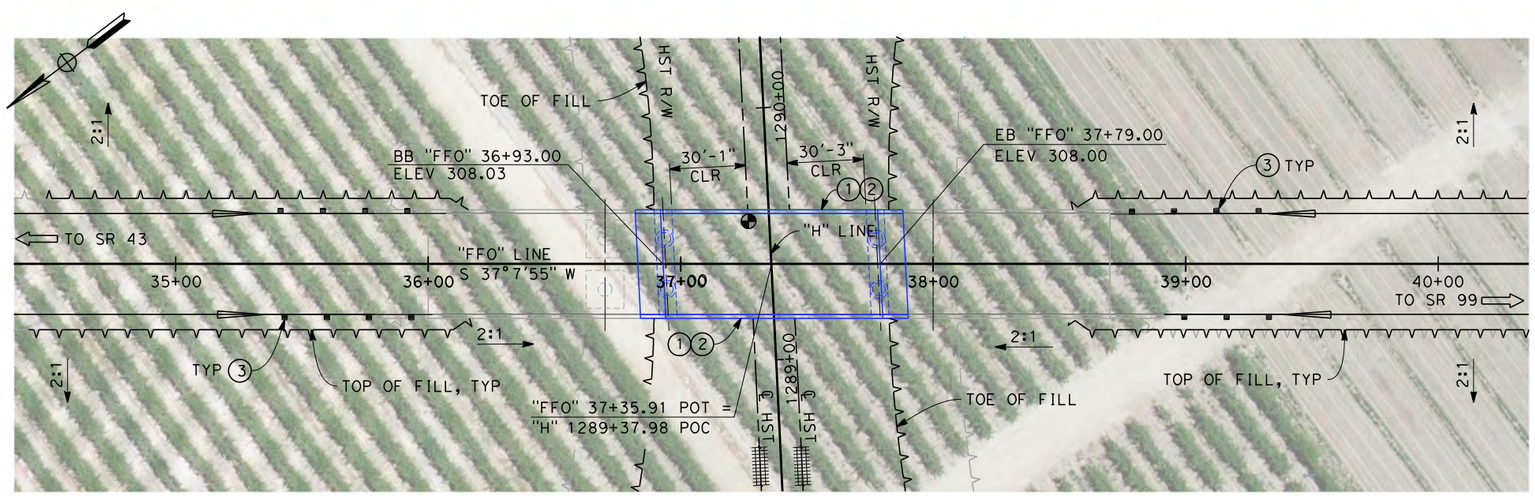
hallal



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. HELM
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CONEJO SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
S FOWLER AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2121
SCALE	AS SHOWN
SHEET NO.	4 OF 14

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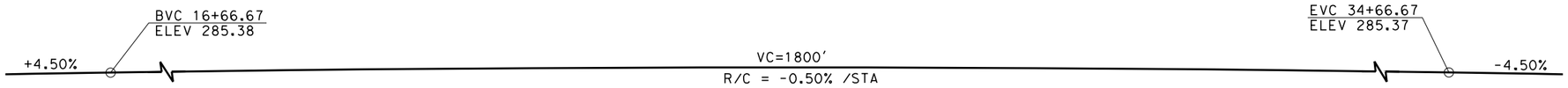
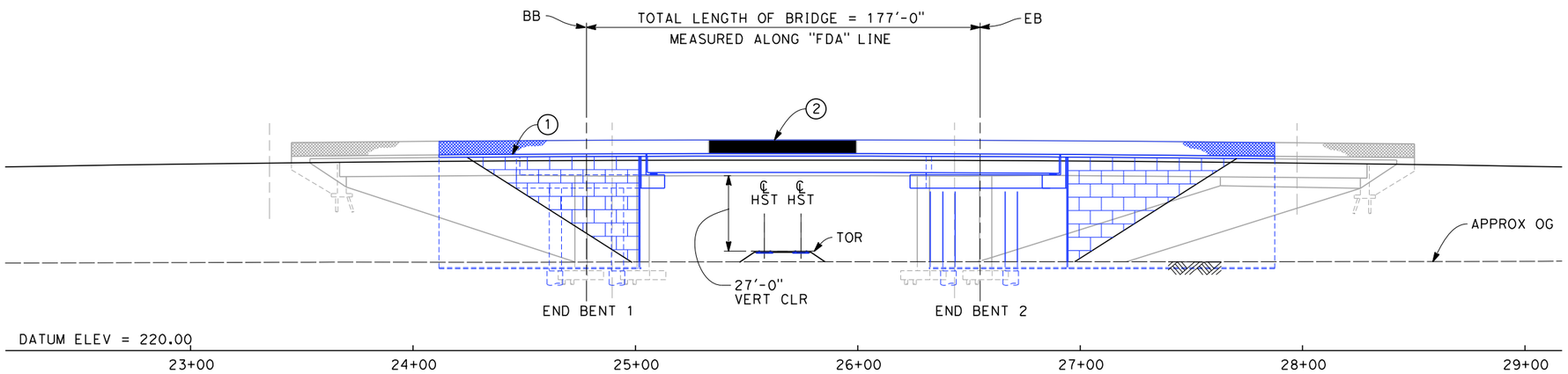
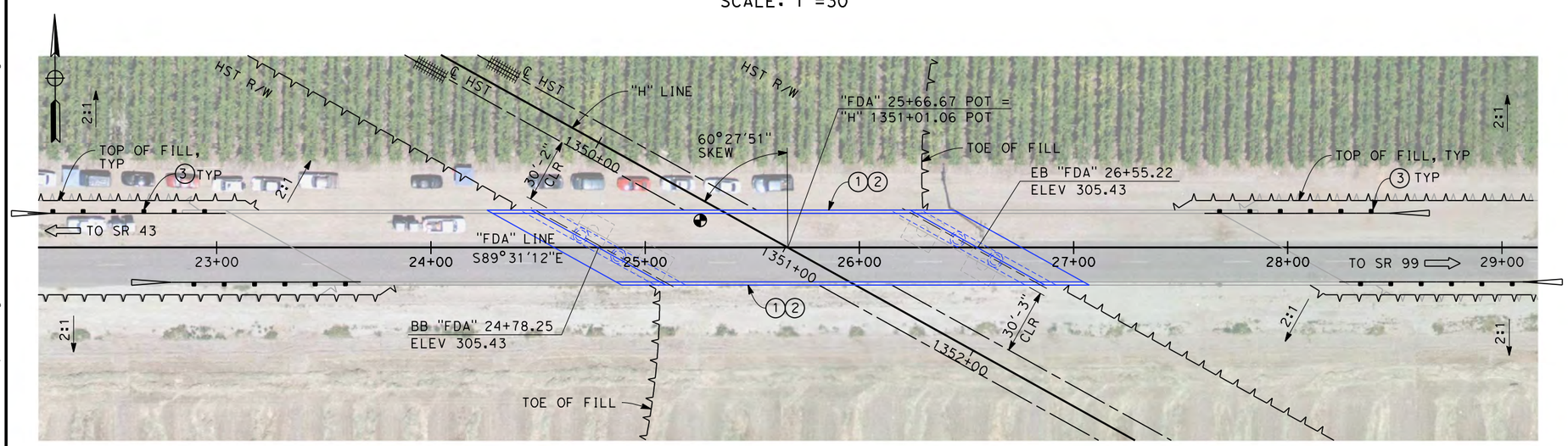
hall1



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

DISCLAIMER:
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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. HELM
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CONEJO SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
E DAVIS AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2123
SCALE	AS SHOWN
SHEET NO.	5 OF 14

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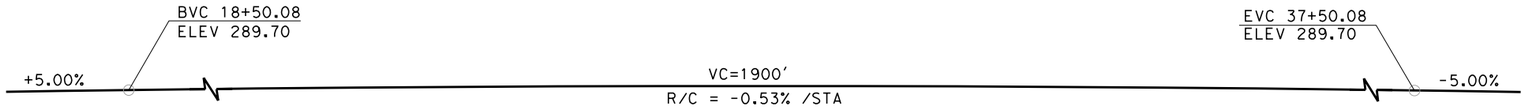
hall1



PROFILE GRADE
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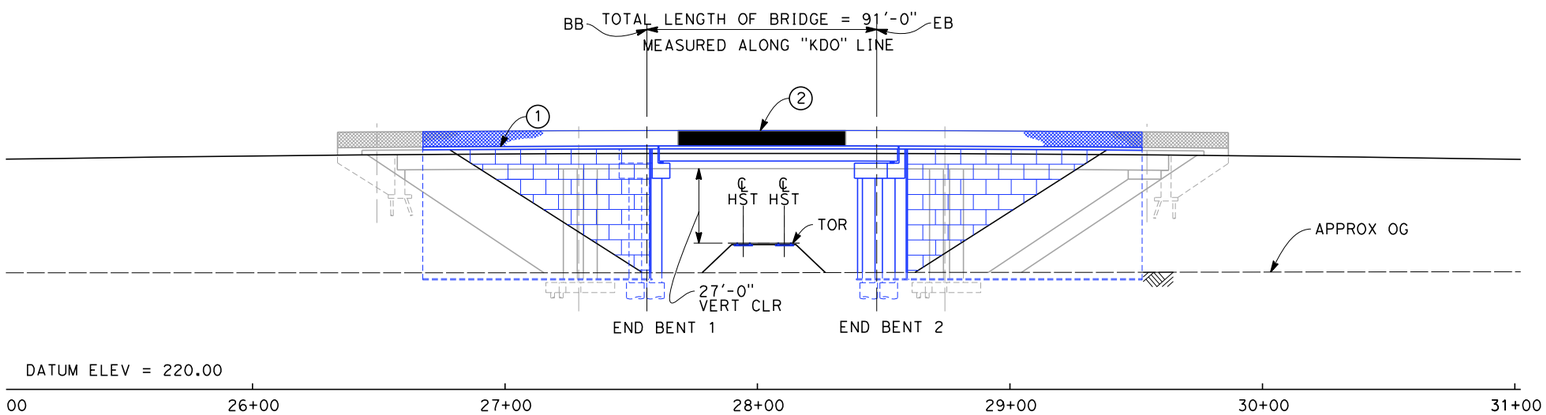
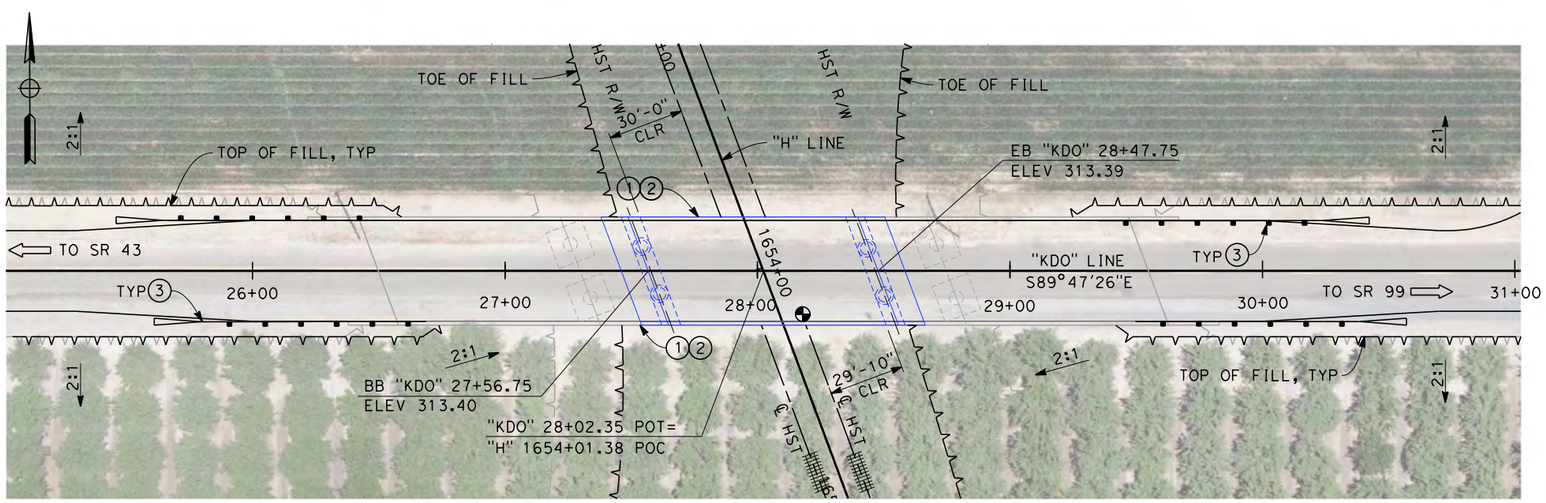


ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. HELM
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
DOVER AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2129
SCALE	AS SHOWN
SHEET NO.	6 OF 14

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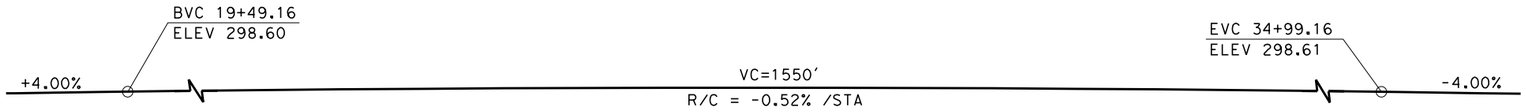
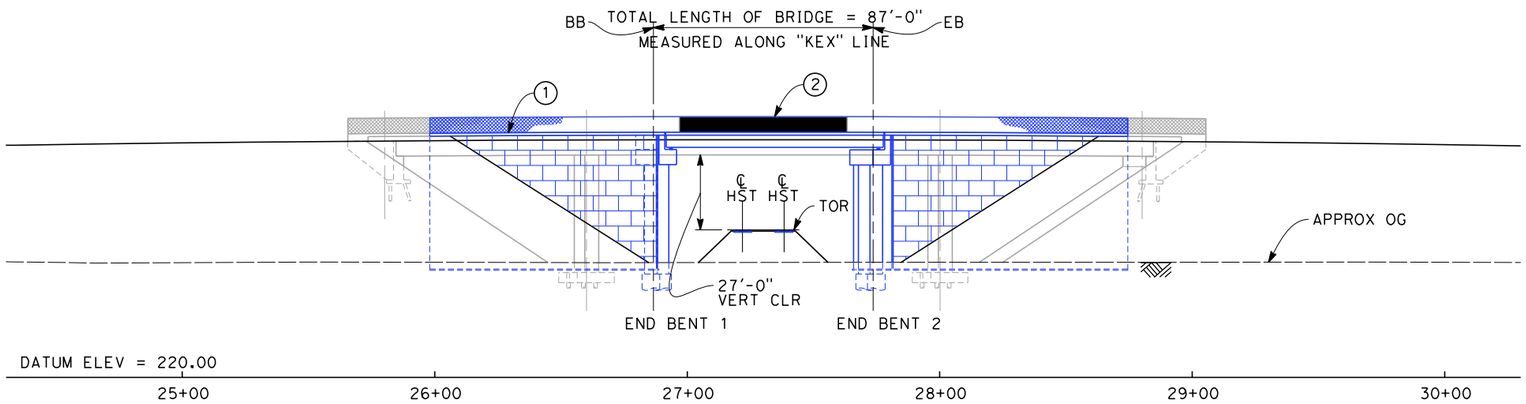
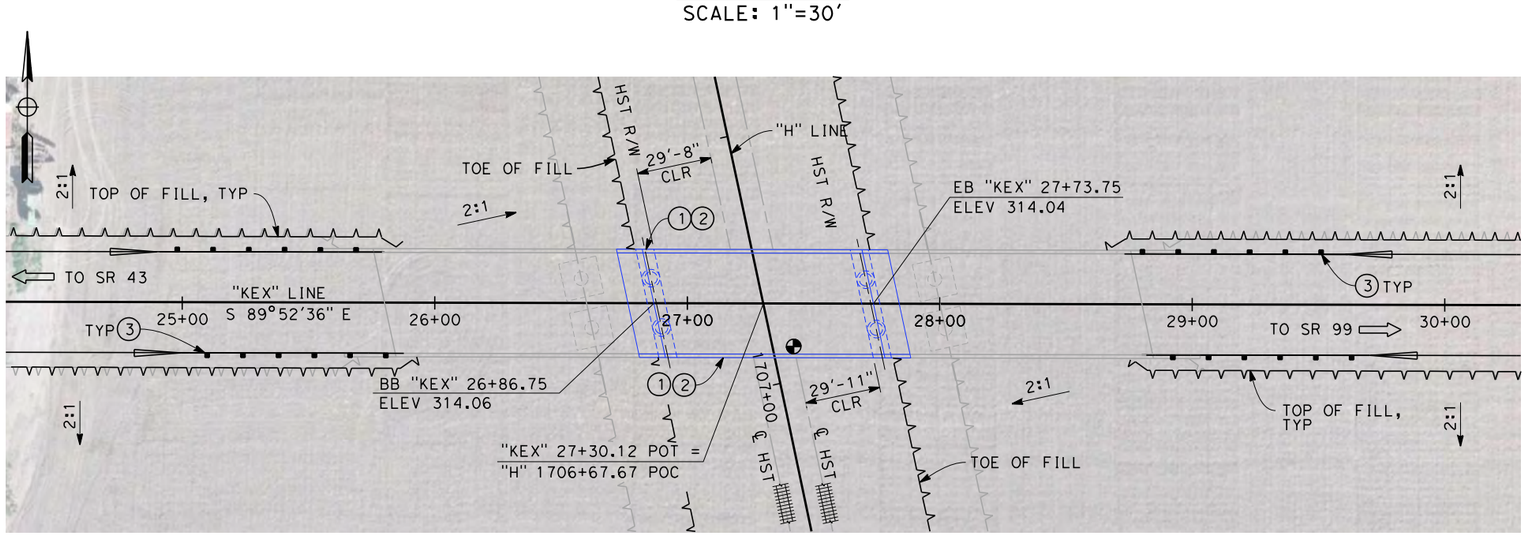
hall1



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. HELM
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
EXCELSIOR AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2133
SCALE	AS SHOWN
SHEET NO.	7 OF 14

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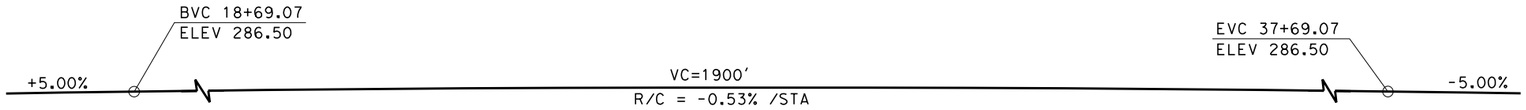
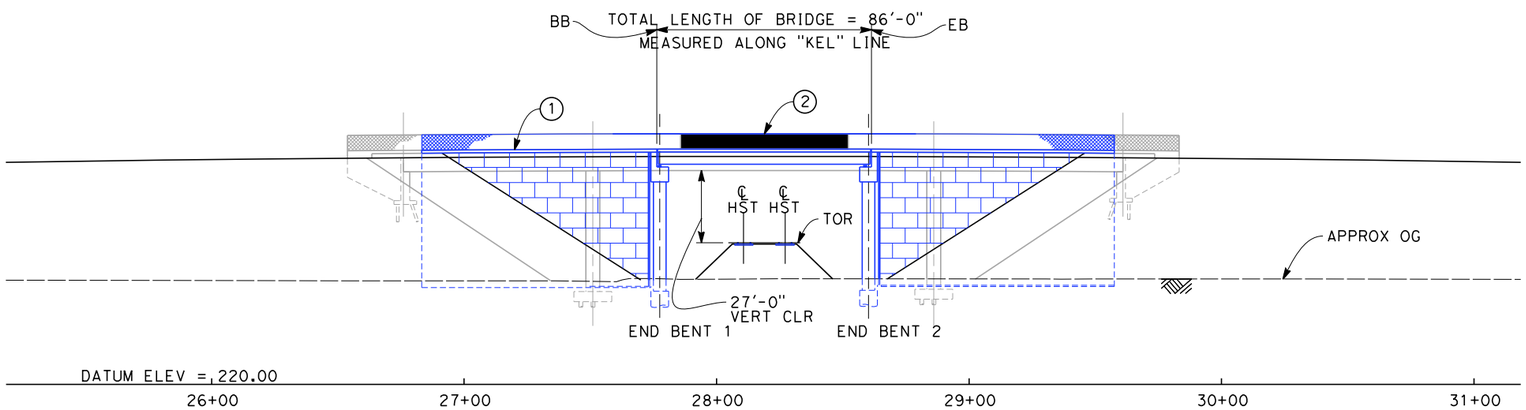
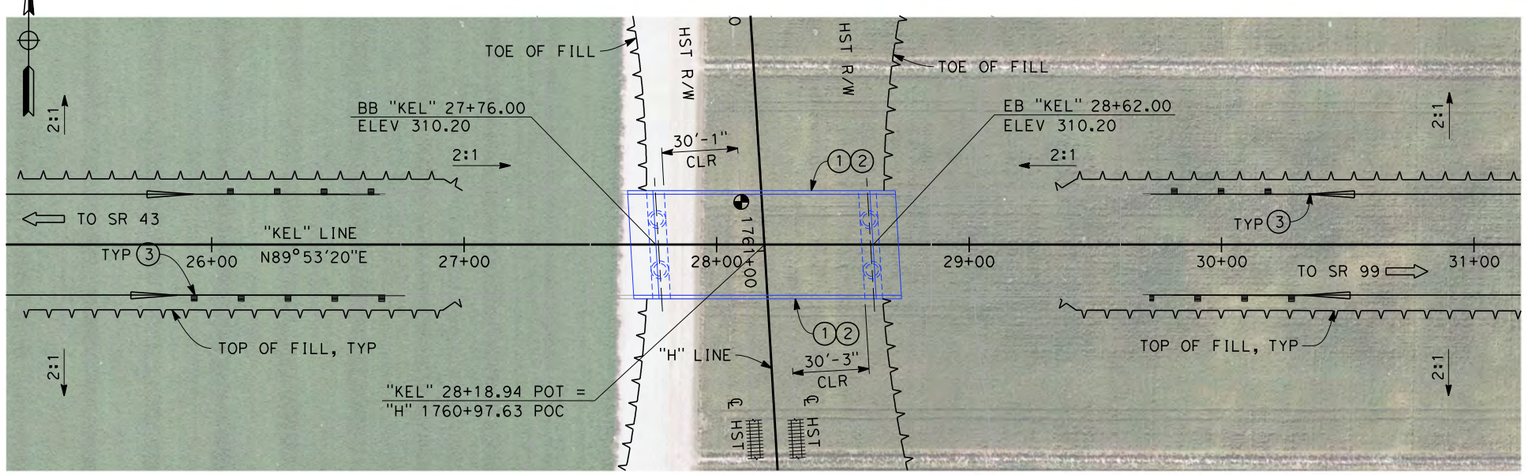
hall1



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

DISCLAIMER:
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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. HELM
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
ELDER AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2135
SCALE	AS SHOWN
SHEET NO.	8 OF 14

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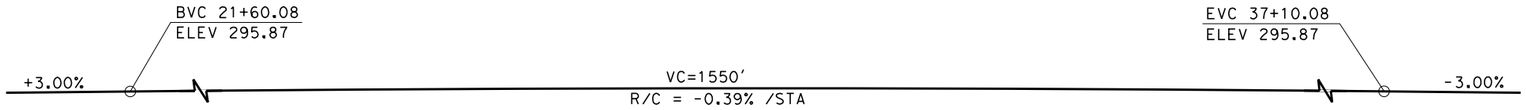
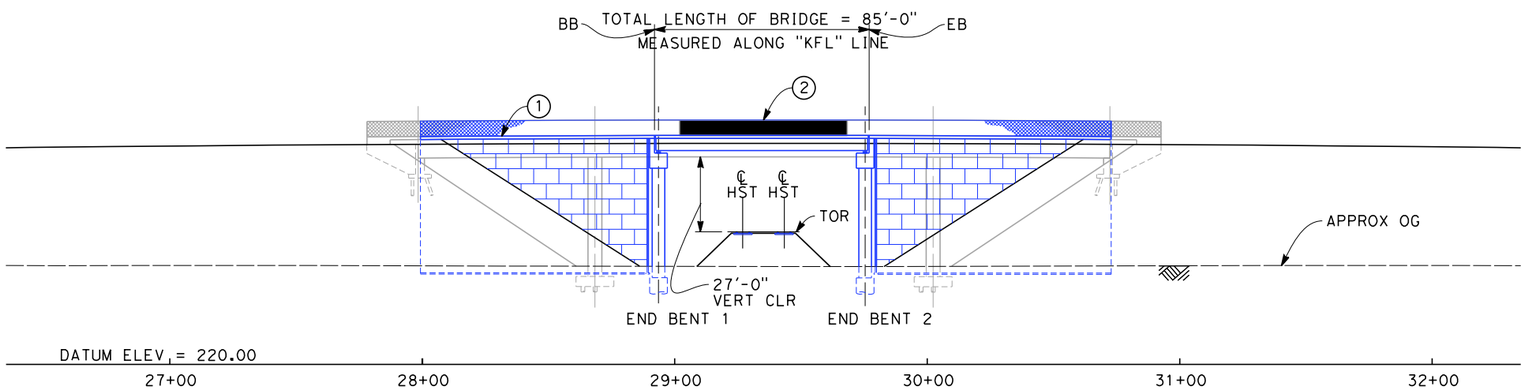
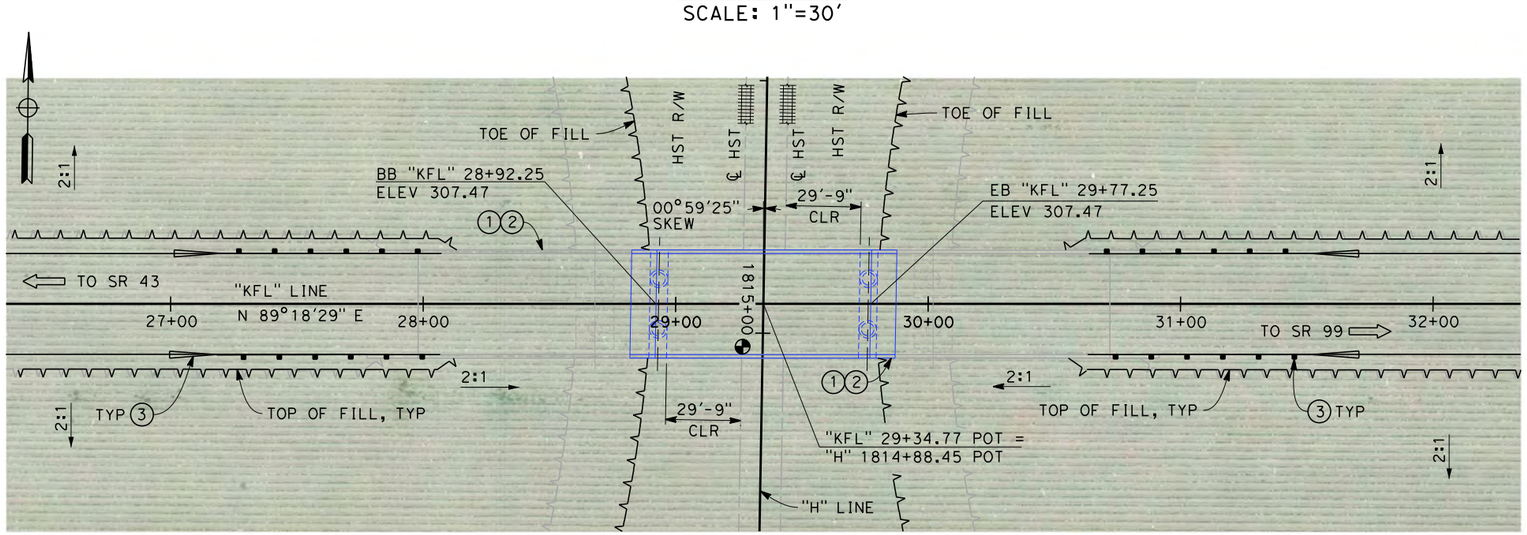
hallal



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

DISCLAIMER:
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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. HELM
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
FLINT AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2137
SCALE	AS SHOWN
SHEET NO.	9 OF 14

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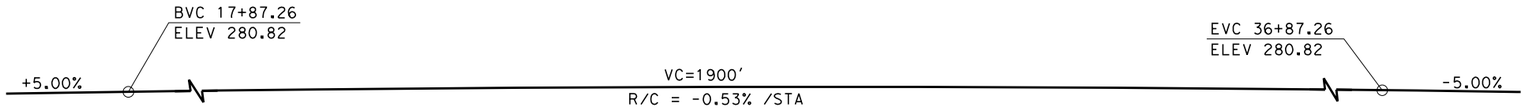
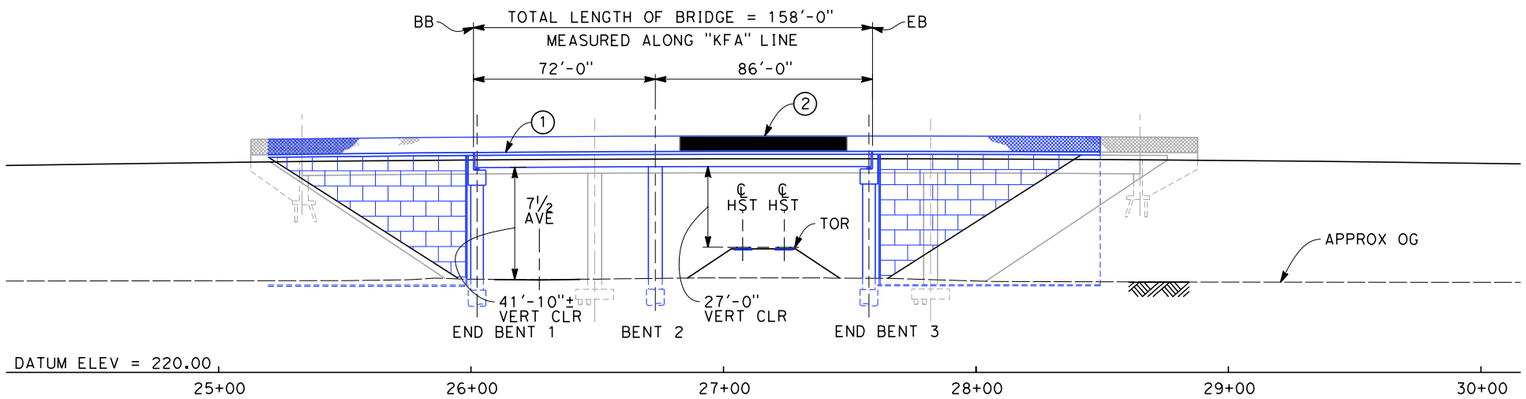
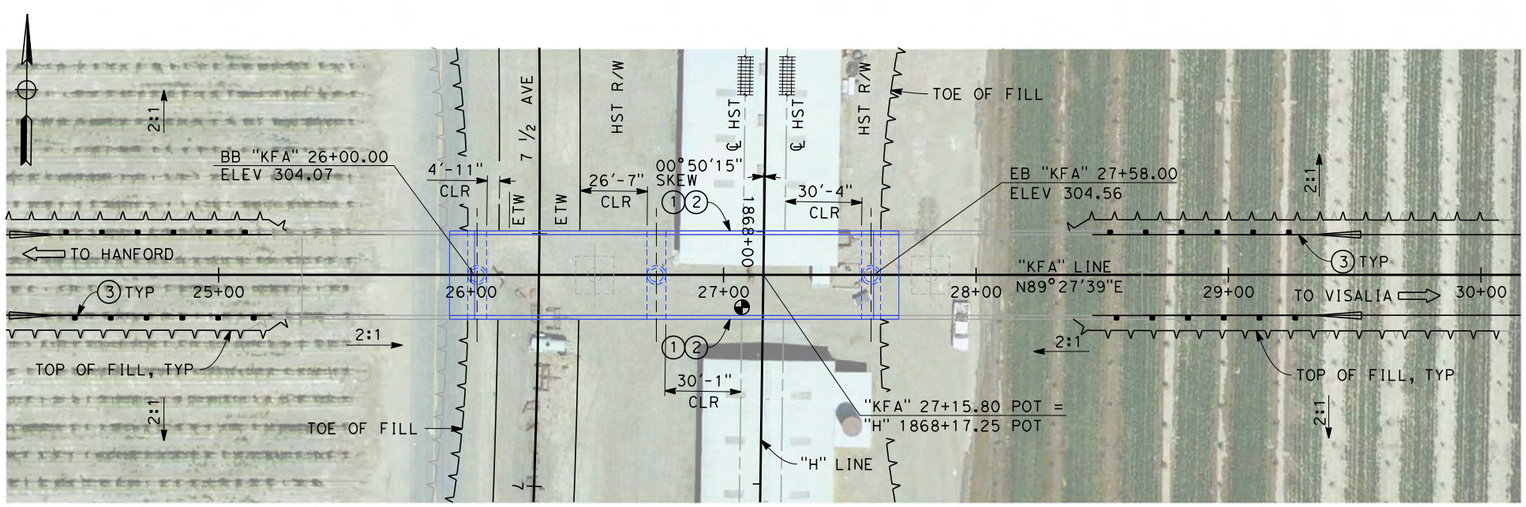
hallal



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

DISCLAIMER:
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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. HELM
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

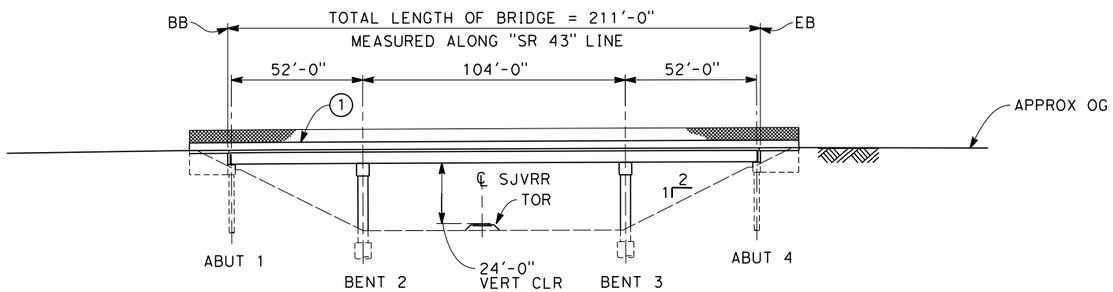
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
FARGO AVE

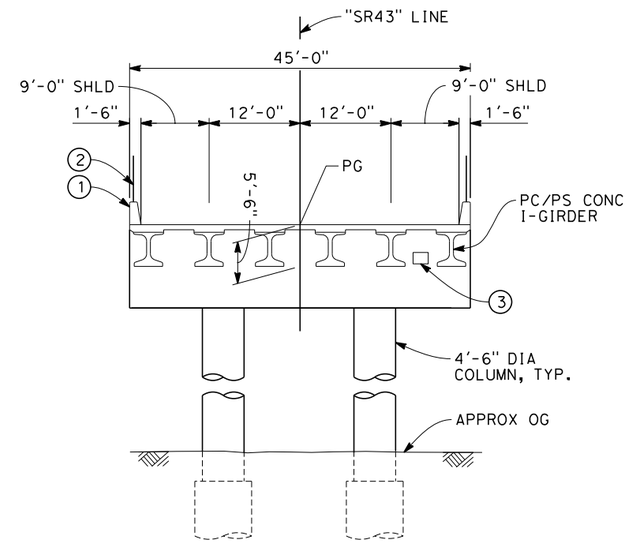
CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2139
SCALE	AS SHOWN
SHEET NO.	10 OF 14

10/10/2014 12:57:59 PM c:\pwworking\nai\hall1\d0175803\FB-ST-2139-H.dgn
hall1



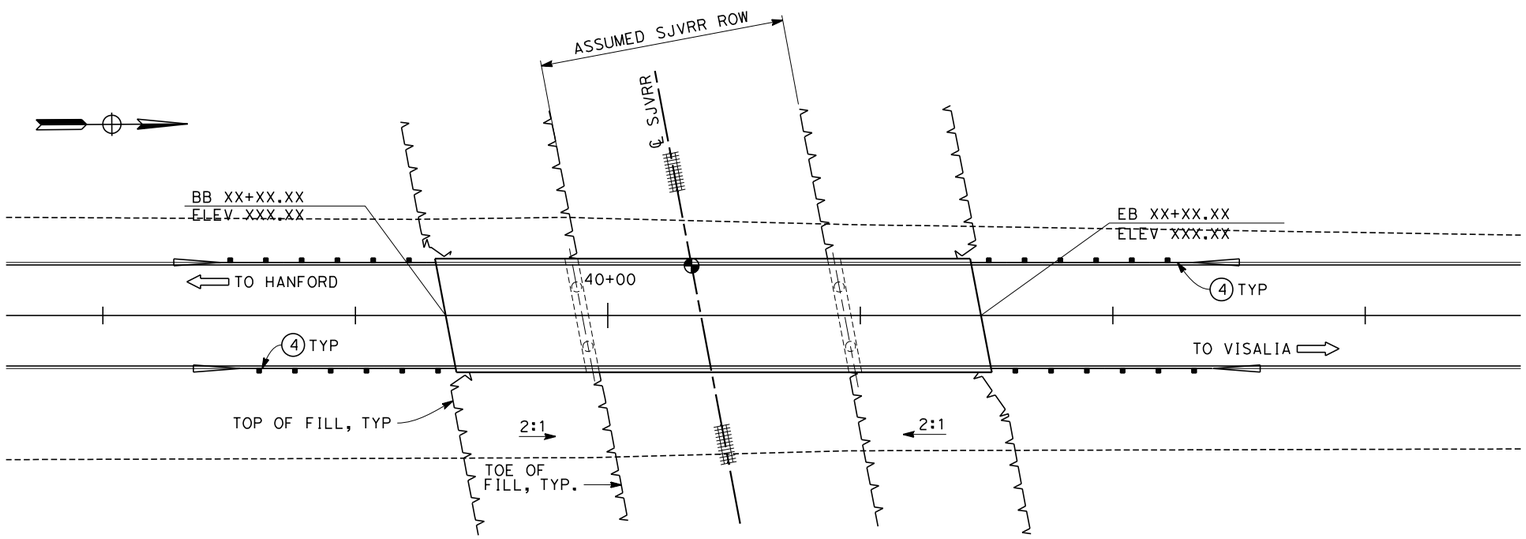
ELEVATION

SCALE: 1"=30'



TYPICAL SECTION

SCALE: 1"=10'



PLAN

SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE
3. FUTURE UTILITY ENCASEMENT OPENING
4. MBGR

30 0 30 60

1"=30'

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DESIGNED BY	N. BEACH
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
SR 43 OVER SJVRR

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

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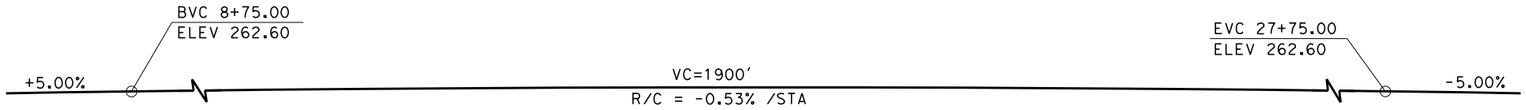
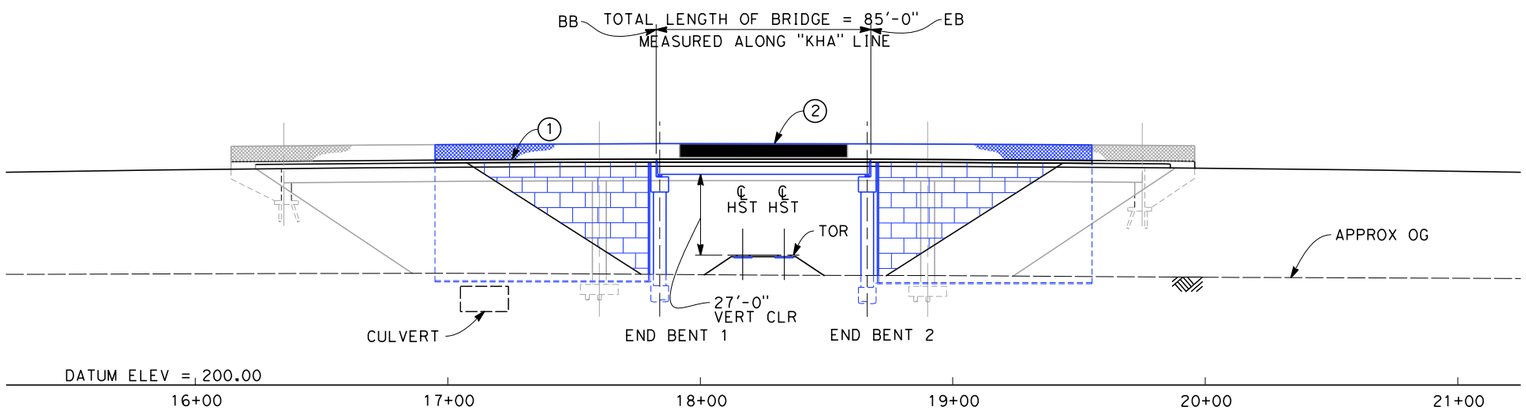
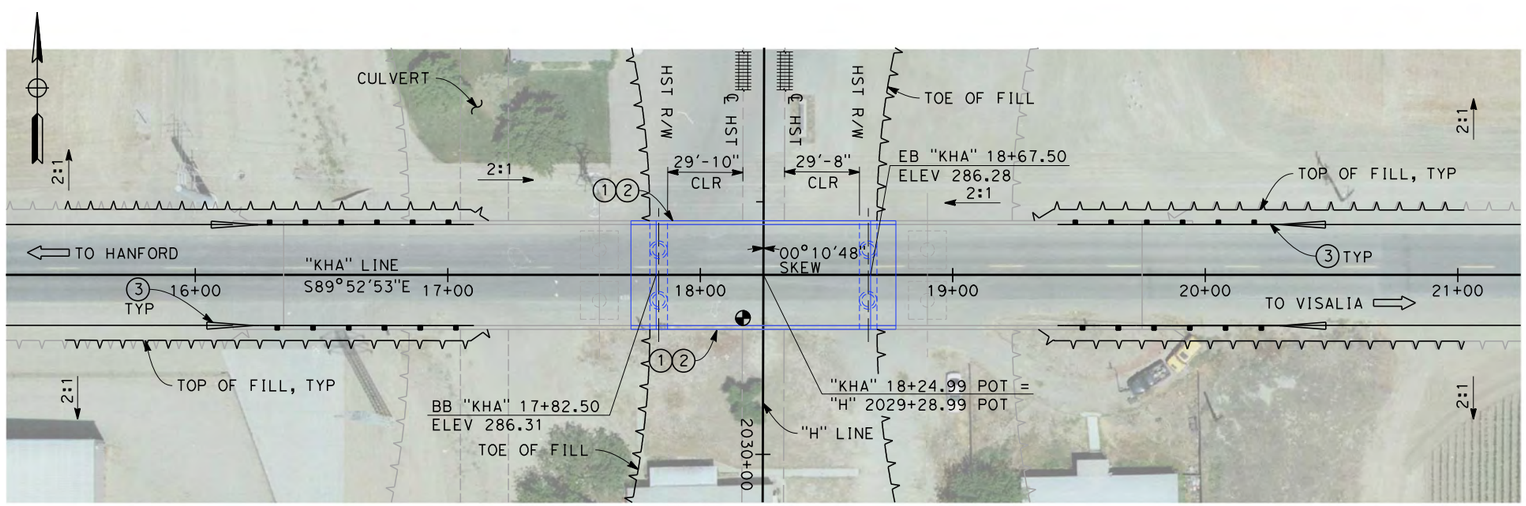
halldl



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

DISCLAIMER:
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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. HELM
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
HANFORD ARMONA RD

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2143
SCALE	AS SHOWN
SHEET NO.	11 OF 14

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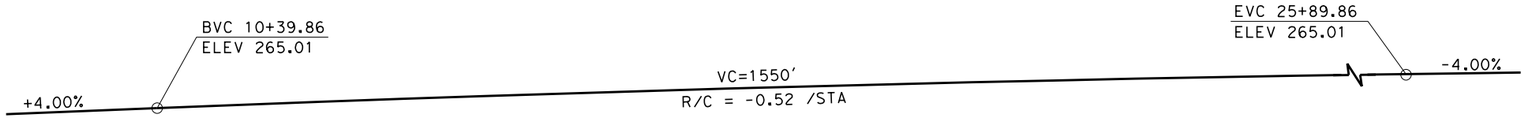
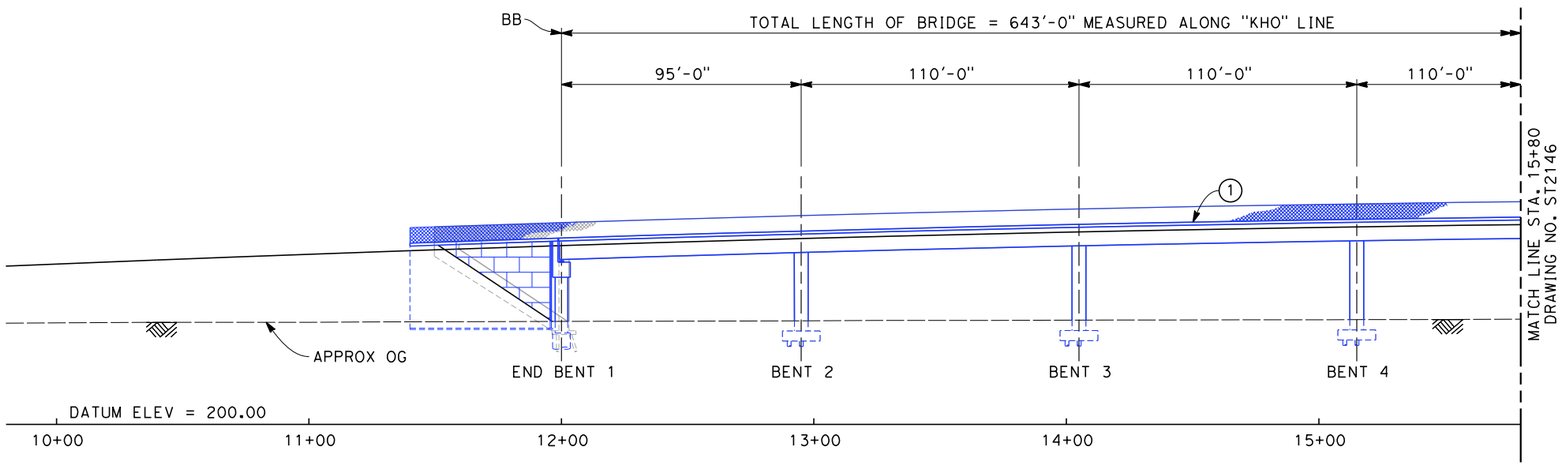
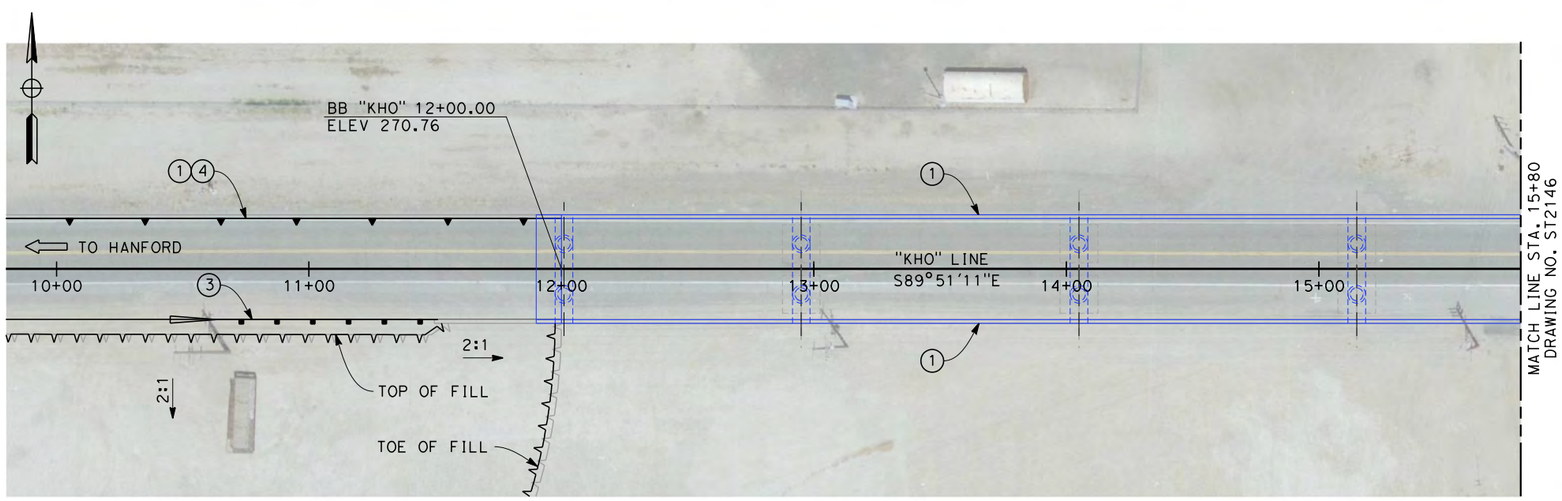
hall1



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR
4. RETAINING WALL

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. HELM
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
HOUSTON AVE 1 OF 2

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2145
SCALE	AS SHOWN
SHEET NO.	12 OF 14

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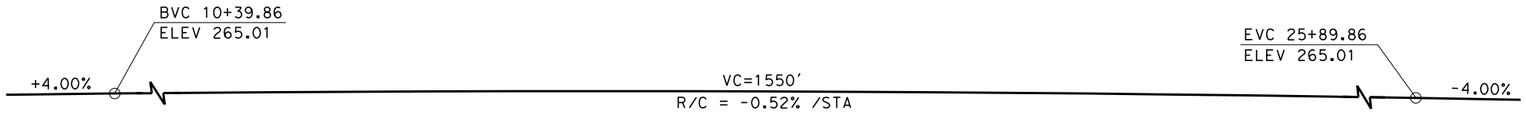
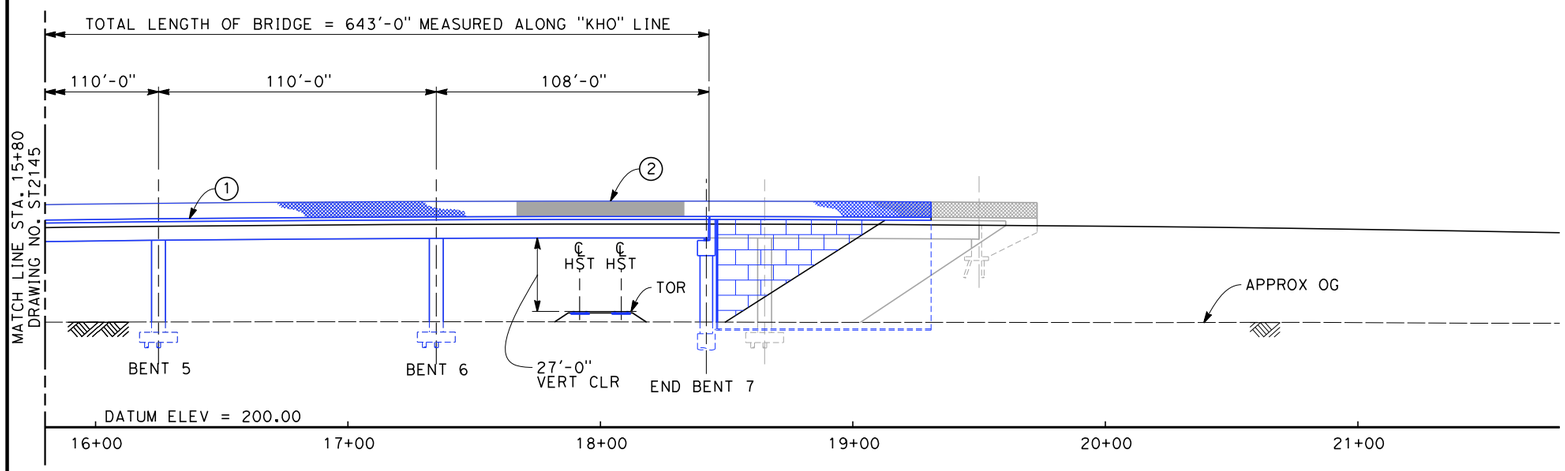
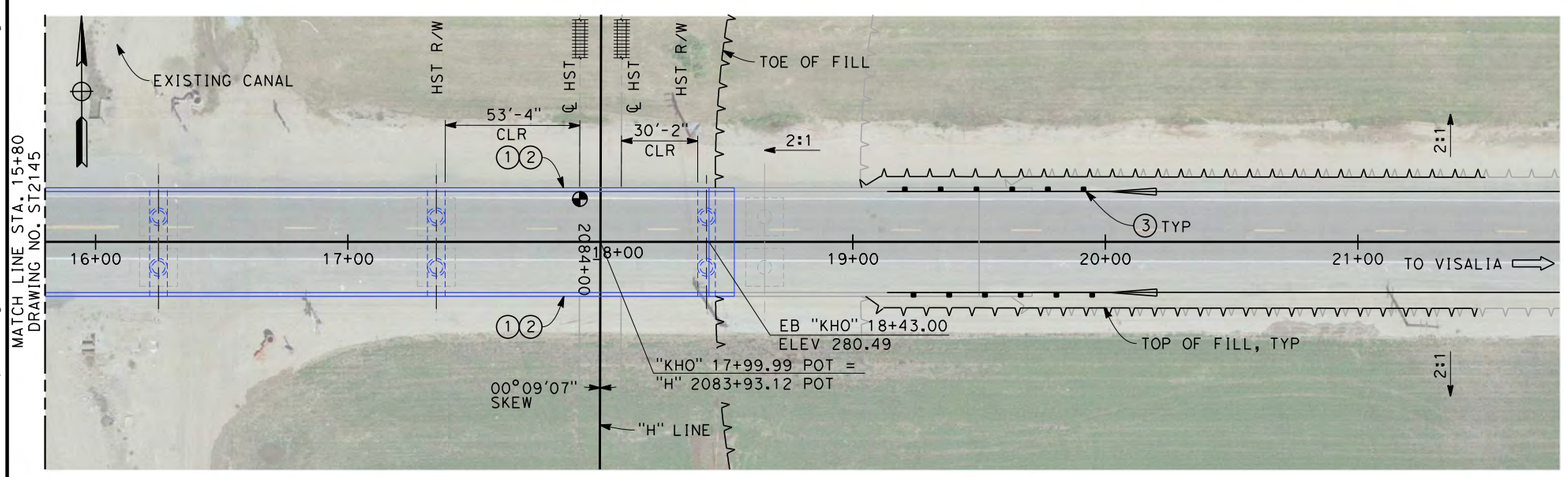
hallal



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

TYPICAL SECTION
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. HELM
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
HOUSTON AVE 2 OF 2

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2146
SCALE	AS SHOWN
SHEET NO.	13 OF 14

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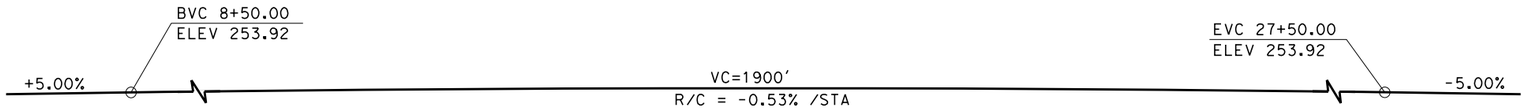
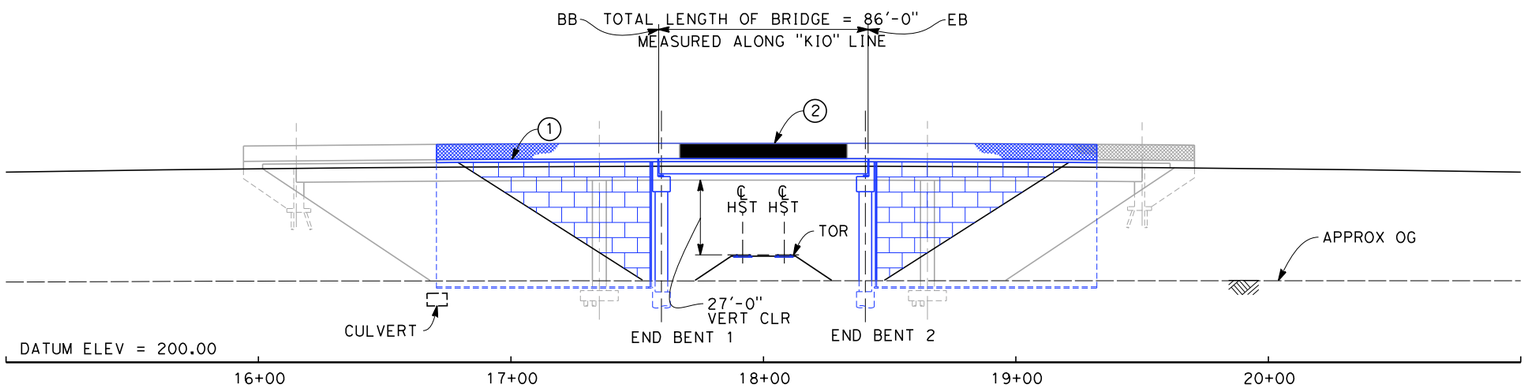
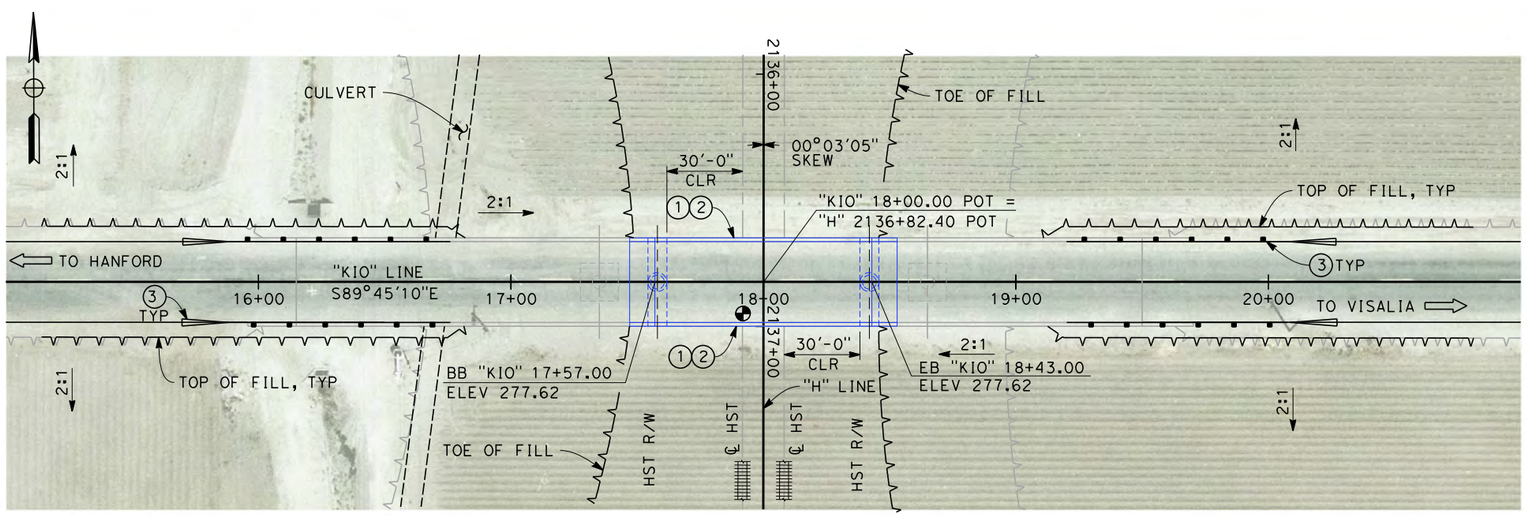
halldl



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

10 0 30 60
1"=30'

DISCLAIMER:
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DESIGNED BY	C. CAYWOOD
DRAWN BY	M. HELM
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

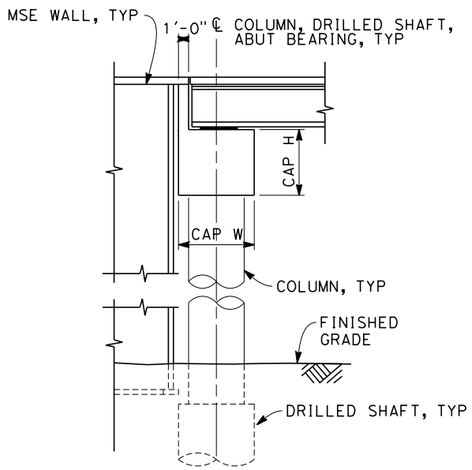
DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

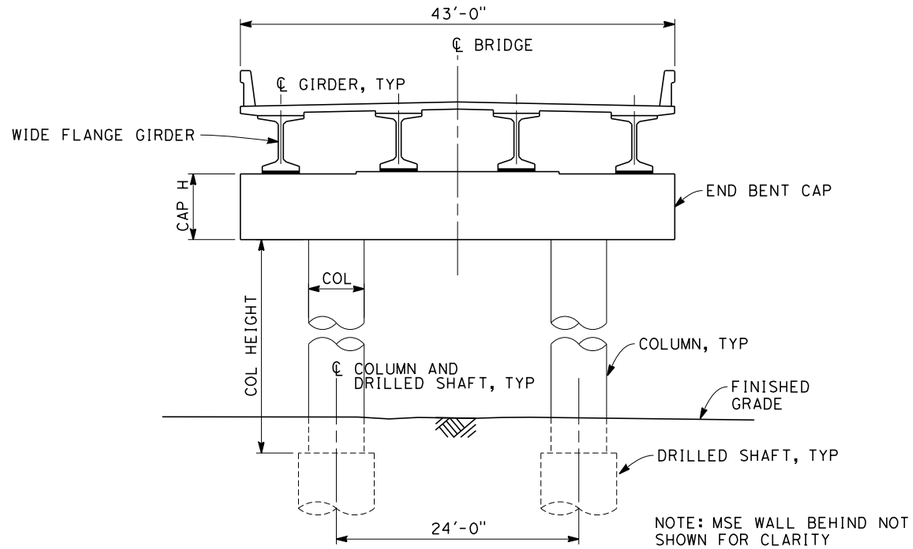
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
IONA AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2147
SCALE	AS SHOWN
SHEET NO.	14 OF 14

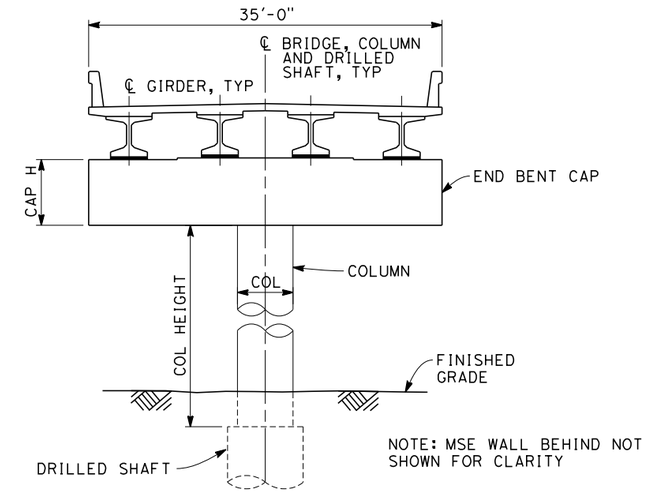
10/10/2014 1:32:40 PM c:\pwworking\nai\hall1\d0175803\FB-ST-2147-H.dgn
hall1



TYPICAL ABUTMENT SECTION
NO SCALE



TYPICAL 2 COLUMN ELEVATION
NO SCALE



TYPICAL 1 COLUMN ELEVATION
NO SCALE

BRIDGE NAME	BENT NUMBER	FOUNDATION TYPE	COLUMN DATA (FT)			CAP DIMENTIONS (FT)		
			NUMBER	COL	COL HEIGHT	LENGTH*	CAP W	CAP H
S CLOVIS AVE	END BENT 1	DRILLED SHAFT OR PILE	1	5.5	36.5	35.02	7.50	6.50
	END BENT 2	DRILLED SHAFT OR PILE	1	5.5	36.5	35.02	7.50	6.50
E ELKHORN AVE	END BENT 1	DRILLED SHAFT OR PILE	2	5.0	39.5	65.54	7.00	6.00
	END BENT 2	DRILLED SHAFT OR PILE	2	5.0	39.5	65.54	7.00	6.00
S FOWLER AVE	END BENT 1	DRILLED SHAFT OR PILE	2	5.0	40.8	43.06	7.00	6.00
	END BENT 2	DRILLED SHAFT OR PILE	2	5.0	40.8	43.06	7.00	6.00
E DAVIS AVE	END BENT 1	DRILLED SHAFT OR PILE	2	5.0	38.3	72.19	7.00	6.00
	END BENT 2	DRILLED SHAFT OR PILE	2	5.0	38.3	72.19	7.00	6.00
DOVER AVE & 8TH AVE	END BENT 1	DRILLED SHAFT OR PILE	2	5.0	38.3	45.91	7.00	6.00
	END BENT 2	DRILLED SHAFT OR PILE	2	5.0	38.3	45.91	7.00	6.00
EXCELSIOR AVE	END BENT 1	DRILLED SHAFT OR PILE	2	5.0	38.9	43.96	7.00	6.00
	END BENT 2	DRILLED SHAFT OR PILE	2	5.0	38.9	43.96	7.00	6.00
ELDER AVE	END BENT 1	DRILLED SHAFT OR PILE	2	5.0	38.9	43.08	7.00	6.00
	END BENT 2	DRILLED SHAFT OR PILE	2	5.0	38.9	43.08	7.00	6.00
FLINT AVE	END BENT 1	DRILLED SHAFT OR PILE	2	5.0	39.5	43.01	7.00	6.00
	END BENT 2	DRILLED SHAFT OR PILE	2	5.0	39.5	43.01	7.00	6.00
FARGO	END BENT 1	DRILLED SHAFT OR PILE	1	5.5	38.4	35.00	7.50	6.50
	END BENT 3	DRILLED SHAFT OR PILE	1	5.5	38.4	35.00	7.50	6.50
HANFORD ARMONA	END BENT 1	DRILLED SHAFT OR PILE	2	5.0	34.5	43.00	7.00	6.00
	END BENT 2	DRILLED SHAFT OR PILE	2	5.0	34.5	43.00	7.00	6.00
HOUSTON AVE	END BENT 1	DRILLED SHAFT OR PILE	2	5.0	27.0	43.00	7.00	6.00
	END BENT 7	DRILLED SHAFT OR PILE	2	5.0	27.0	43.00	7.00	6.00
IONA AVE	END BENT 1	DRILLED SHAFT OR PILE	1	5.5	35.9	35.00	7.50	6.50
	END BENT 2	DRILLED SHAFT OR PILE	1	5.5	35.9	35.00	7.50	6.50

*DIMENSION ON THE SKEW

NOTES:

1. SEE INDIVIDUAL BRIDGE SHEETS FOR MORE INFORMATION

DISCLAIMER:
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DESIGNED BY C. CAYWOOD
DRAWN BY M. HELM
CHECKED BY D. JONES
IN CHARGE R. TREVETT
DATE 10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
END BENT DETAILS
ALIGNMENT H
OVERHEAD PLANNING STUDY
SHEET 1 OF 2

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

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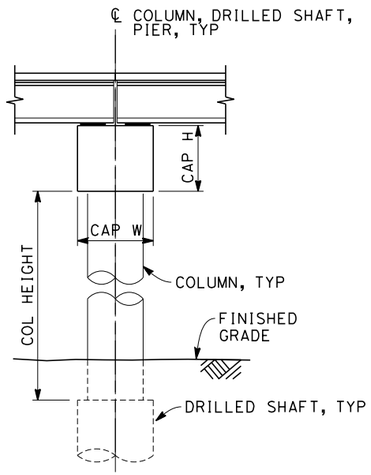
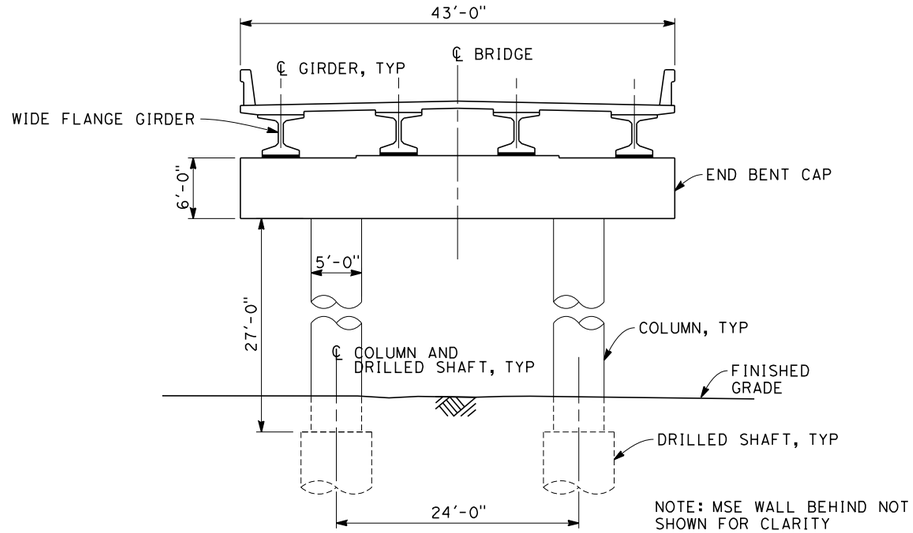
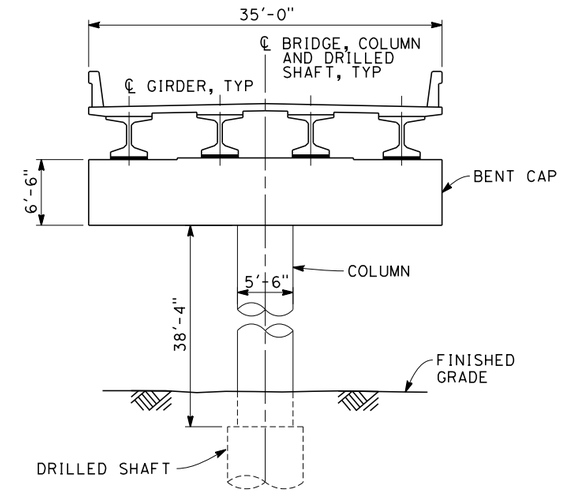
hallal



TYPICAL BENT SECTION
NO SCALE



HOUSTON TYPICAL BENT ELEVATION
NO SCALE



FARGO BENT ELEVATION
NO SCALE

BRIDGE NAME	BENT NUMBER	FOUNDATION TYPE	COLUMN DATA (FT)			CAP DIMENTIONS (FT)		
			NUMBER	COL	COL HEIGHT	LENGTH	CAP W	CAP H
FARGO	INT BENT 2	DRILLED SHAFT OR PILE	1	5.5	38.4	35.0	7.50	6.50
HOUSTON AVE	INT BENT 2	DRILLED SHAFT OR PILE	2	5.0	27.0	43.0	7.00	6.00
	INT BENT 3	DRILLED SHAFT OR PILE	2	5.0	27.0	43.0	7.00	6.00
	INT BENT 4	DRILLED SHAFT OR PILE	2	5.0	27.0	43.0	7.00	6.00
	INT BENT 5	DRILLED SHAFT OR PILE	2	5.0	27.0	43.0	7.00	6.00
	INT BENT 6	DRILLED SHAFT OR PILE	2	5.0	27.0	43.0	7.00	6.00

NOTES:

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DESIGNED BY C. CAYWOOD
DRAWN BY M. HELM
CHECKED BY D. JONES
IN CHARGE R. TREVETT
DATE 10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
BENT DETAILS
ALIGNMENT H
OVERHEAD PLANNING STUDY
SHEET 2 OF 2

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

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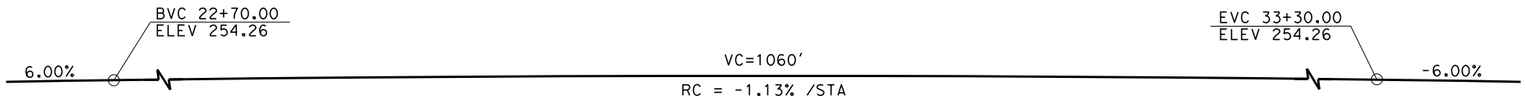
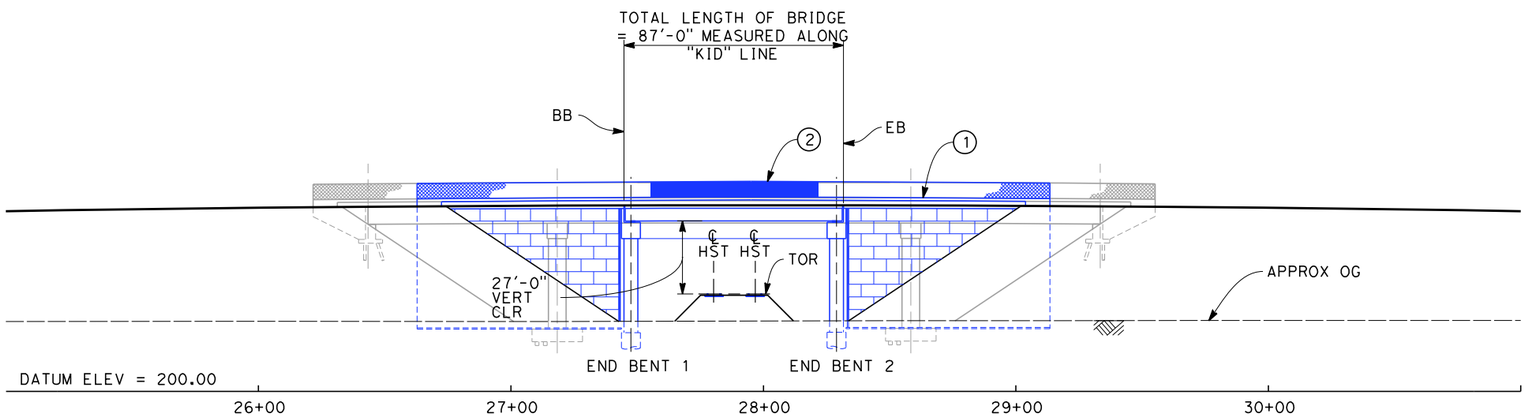
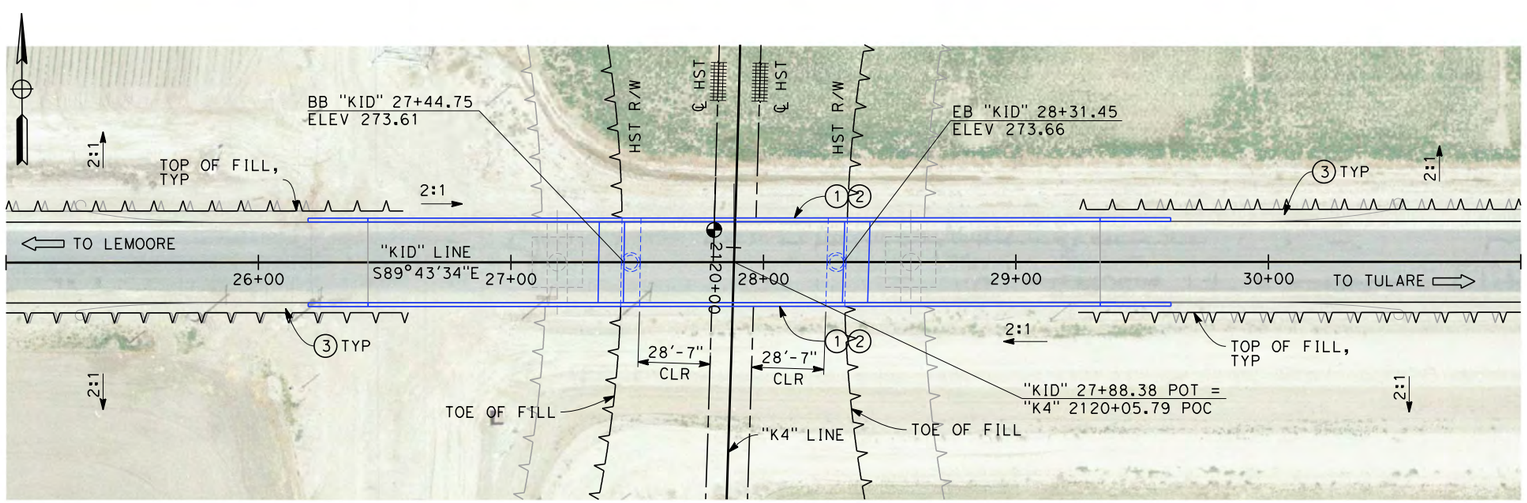


PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	D. HALL
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
OVERHEAD PLANNING STUDY
IDAHO AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2220
SCALE	AS SHOWN
SHEET NO.	2 OF 5

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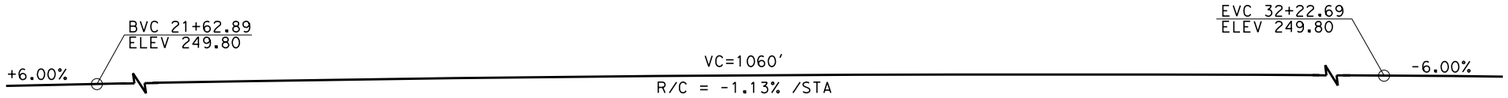
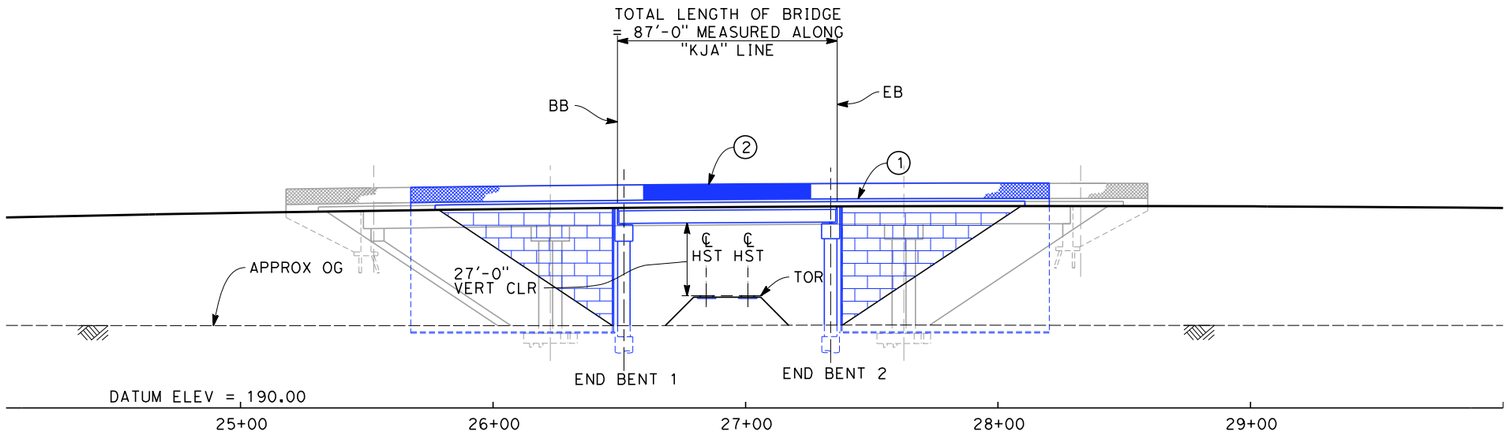
hallidl



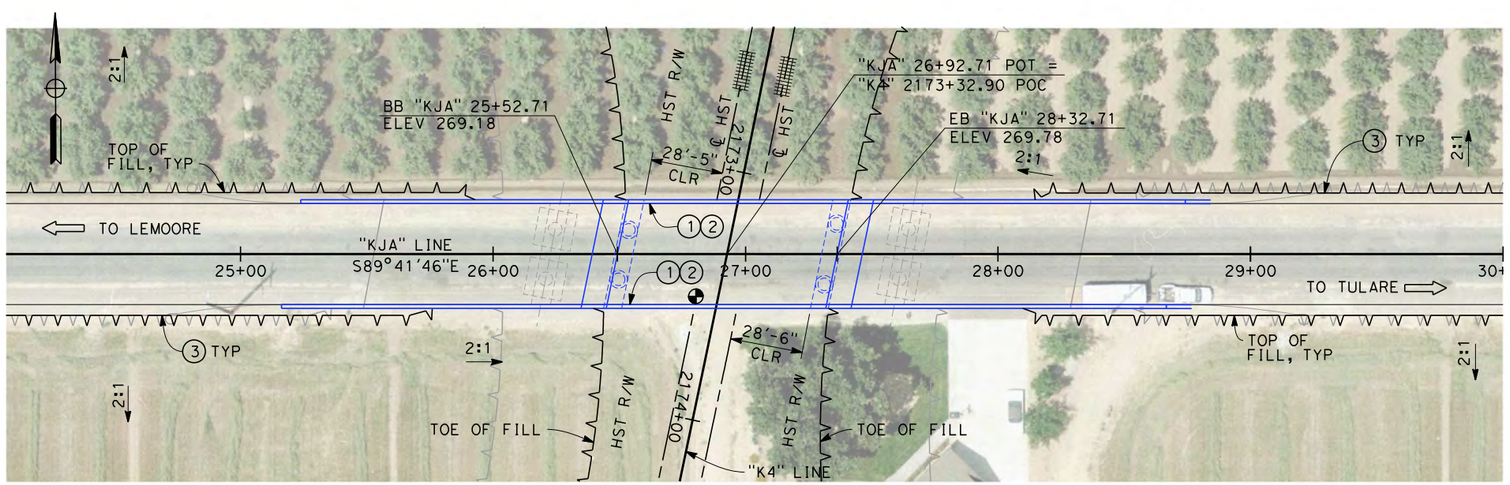
PROFILE GRADE

NO SCALE



ELEVATION

SCALE: 1"=30'



PLAN

SCALE: 1"=30'

NOTES:

1. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60

1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	D. HALL
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
OVERHEAD PLANNING STUDY
JACKSON AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2222
SCALE	AS SHOWN
SHEET NO.	3 OF 5

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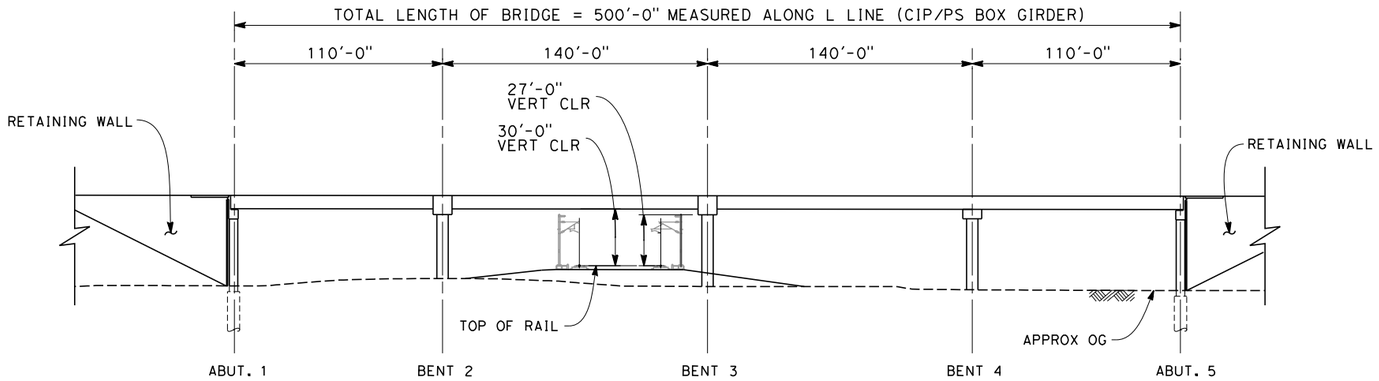
halldl

NOTES

1. SUPERSTRUCTURE CONSTRUCTION, UON
   CONTINUOUS SPANS - CIP/PS CONC. BOX GIRDER
2. ELEVATED SLABS - PC BEAM AND IN-SITU SLAB
3. REFER TO TRACK ALIGNMENT DATA TABLE FOR CURVE AND TANGENT INFORMATION.

K-7



ELEVATION

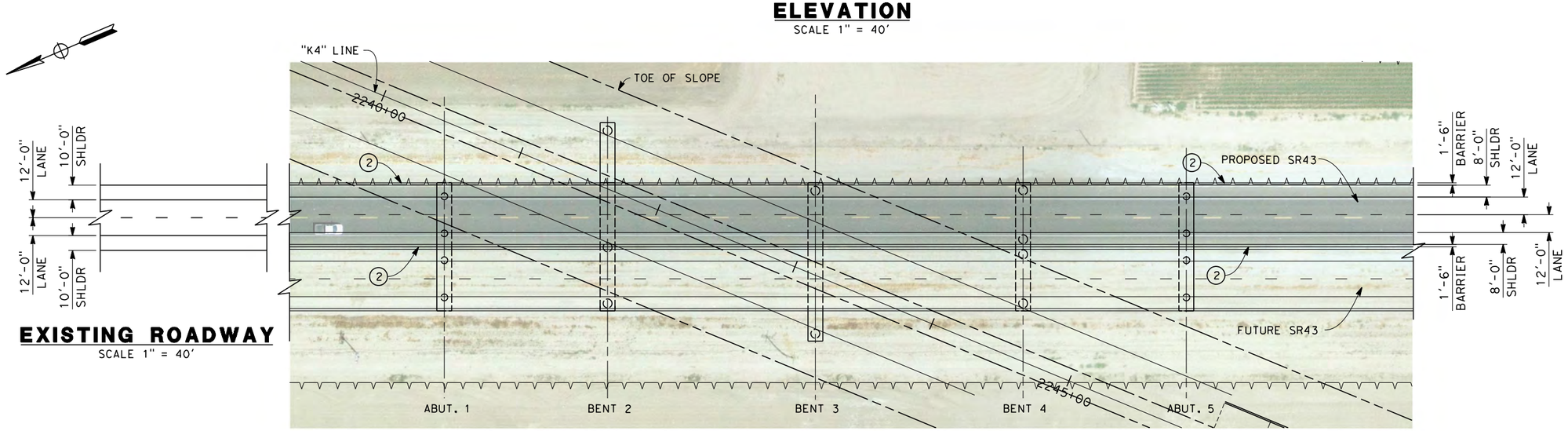
SCALE 1" = 40'

LEGEND:

1. CEMENT TREATED STRUCTURE BACKFILL
2. RETAINING WALL

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

POINT OF MINIMUM CLEARANCE



EXISTING ROADWAY

SCALE 1" = 40'

PLAN

SCALE 1" = 40'

40 0 40 80

1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
STATE ROUTE 43 UNDERPASS
PLAN AND ELEVATION

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV2451
SCALE	AS SHOWN
SHEET NO.	2 OF 3

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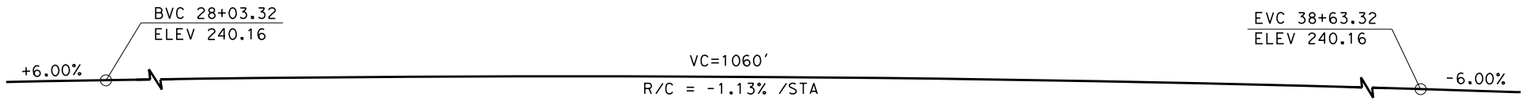
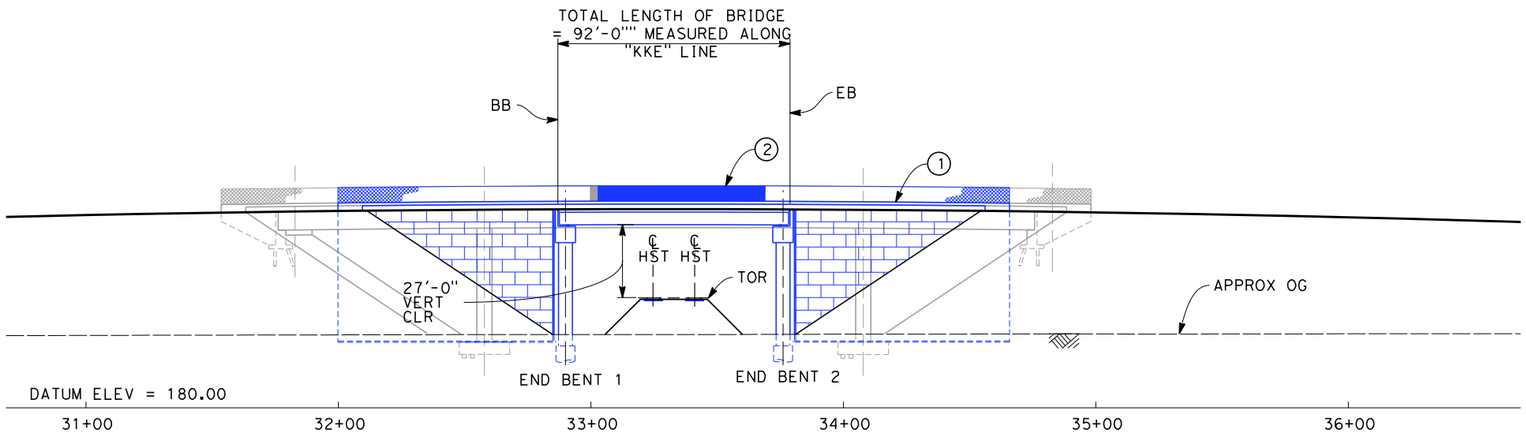
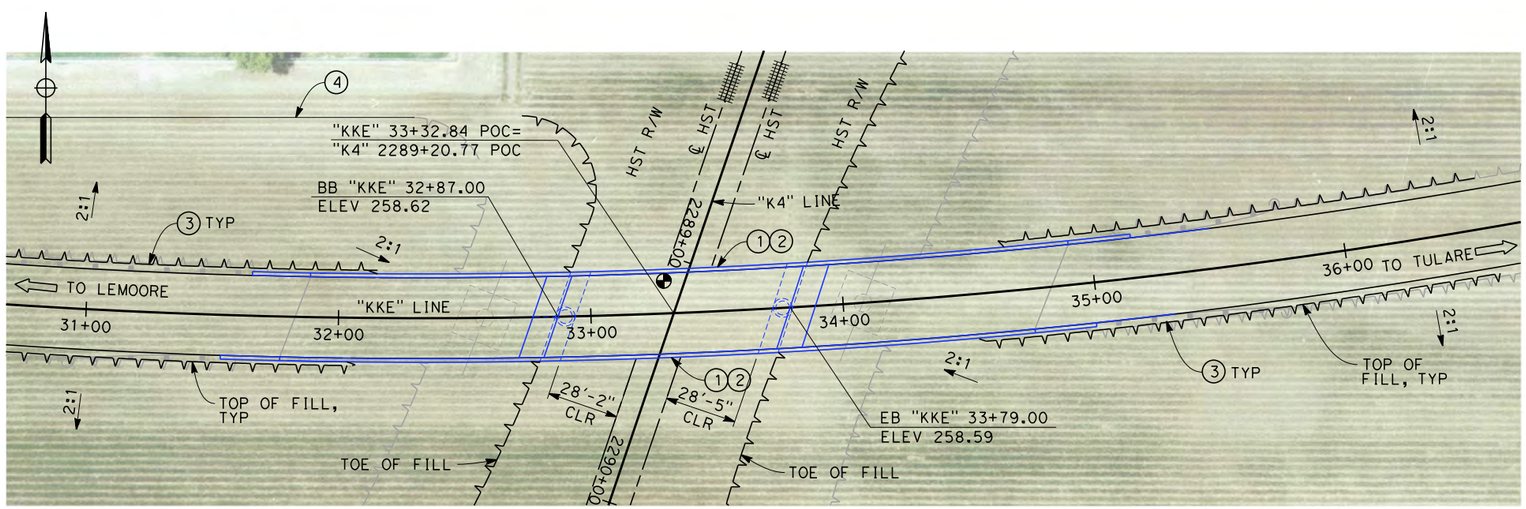


PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR
4. RETAINING WALL

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	D. HALL
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
OVERHEAD PLANNING STUDY
KENT AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2226
SCALE	AS SHOWN
SHEET NO.	4 OF 5

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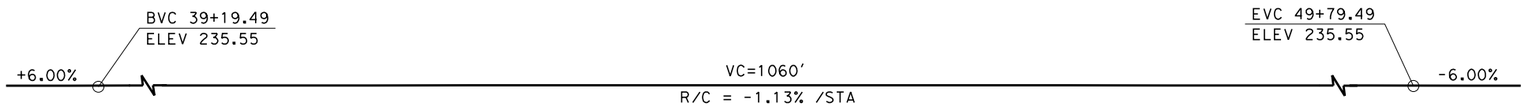

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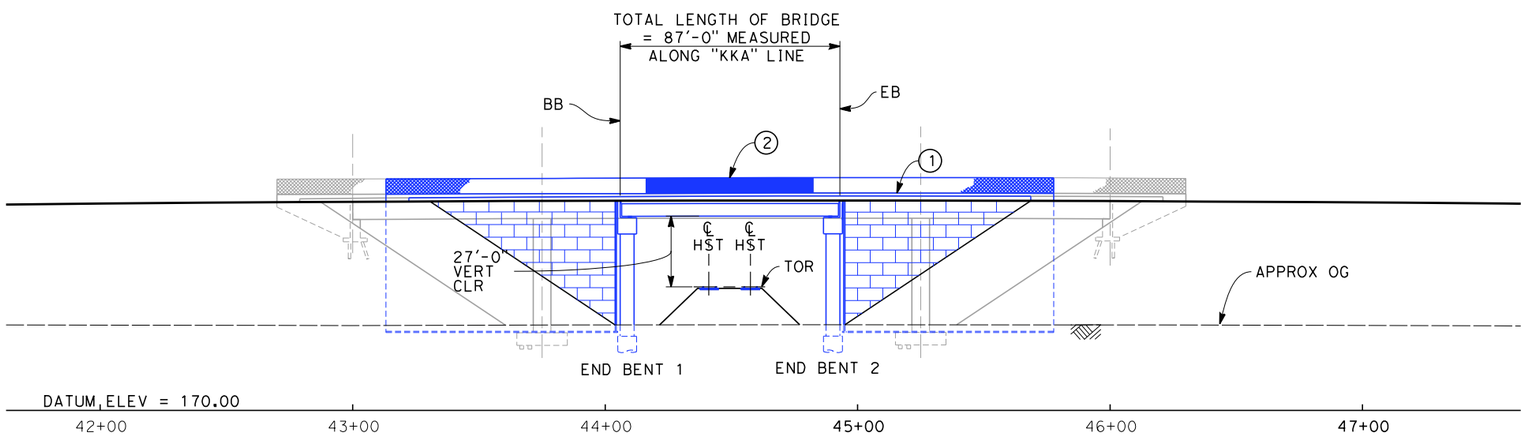
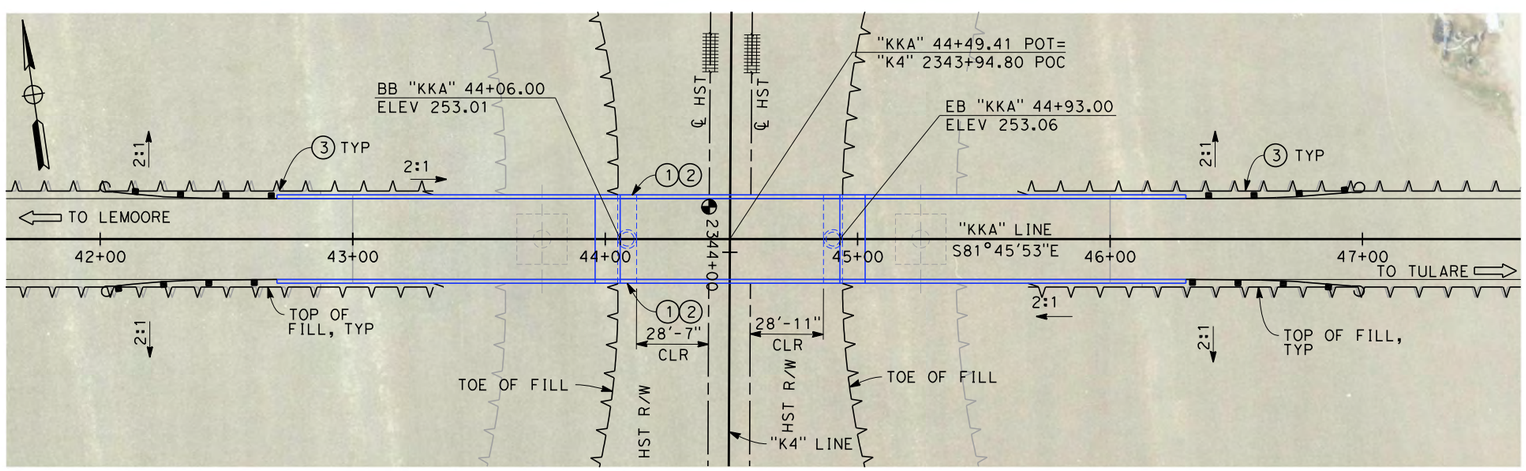
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	D. HALL
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
OVERHEAD PLANNING STUDY
KANSAS AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2228
SCALE	AS SHOWN
SHEET NO.	5 OF 5

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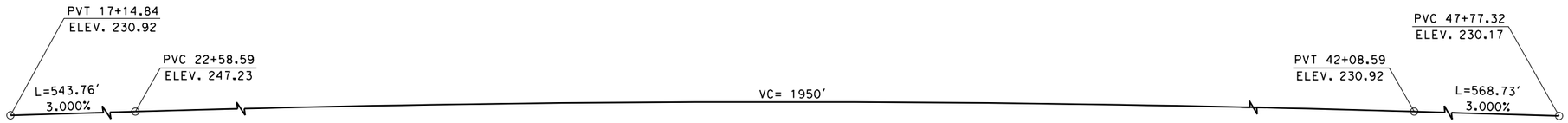
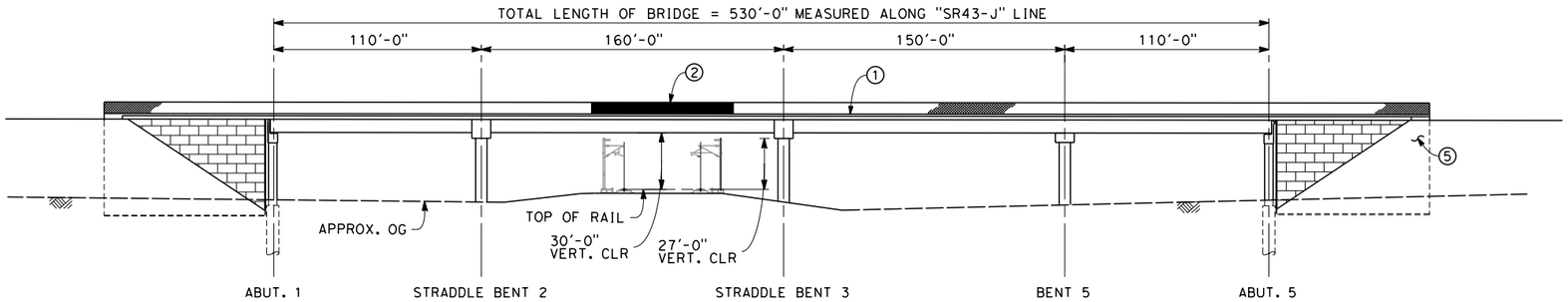


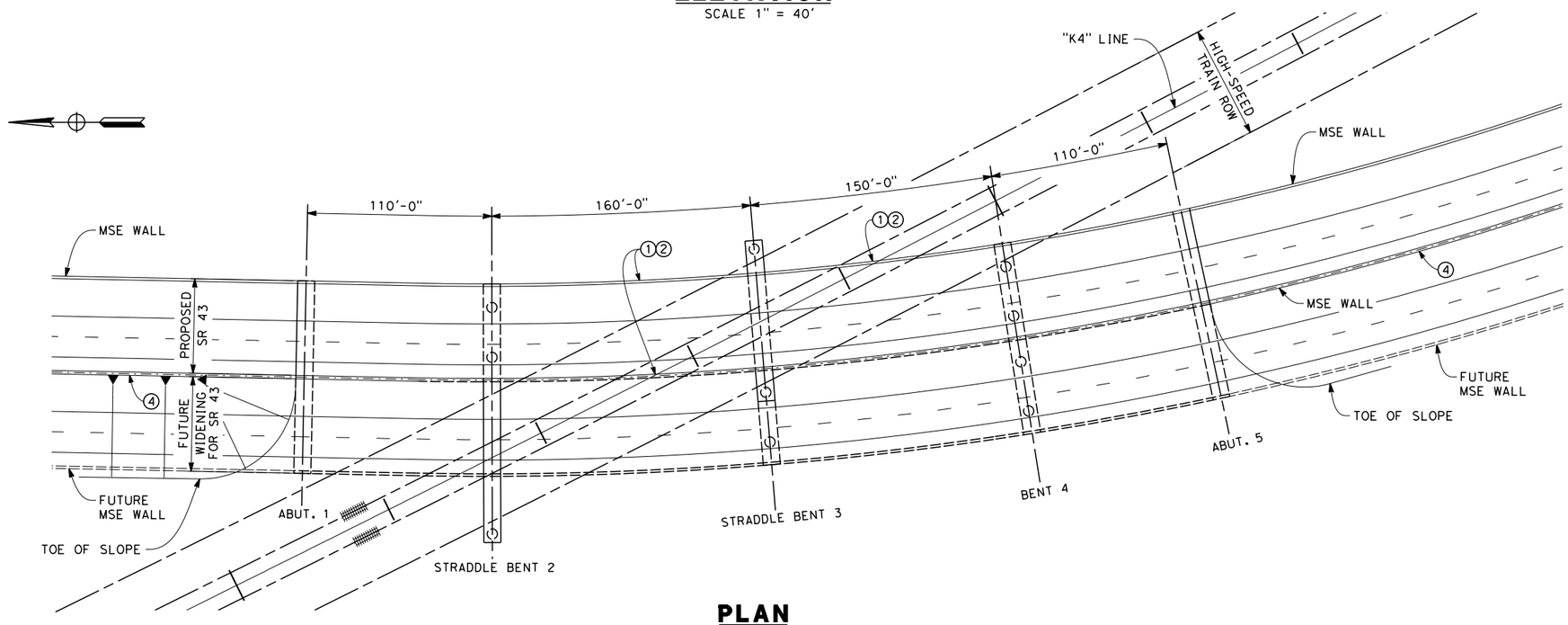
PROFILE GRADE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

NOTES:

1. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. FUTURE UTILITY ENCASEMENT OPENING
4. MBGR
5. RETAINING WALL, TYPE TO BE DETERMINED

40 0 40 80

1"=40'

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

ATC 2 - FUTURE WIDENING OF SR 43 OVER HST
STA. 2535+00

CONTRACT NO.
DRAWING NO.
SCALE
SHEET NO.

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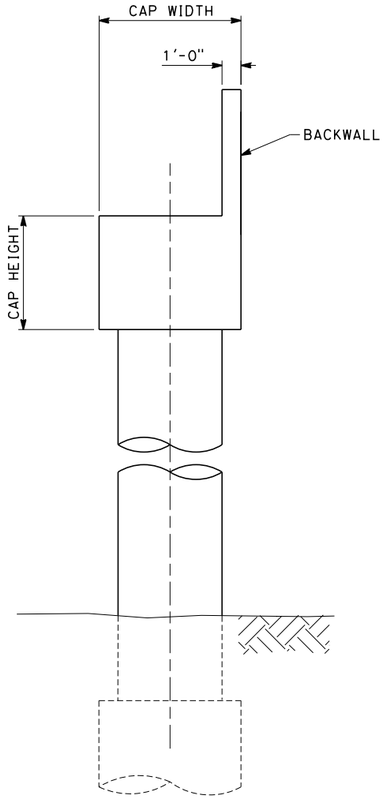
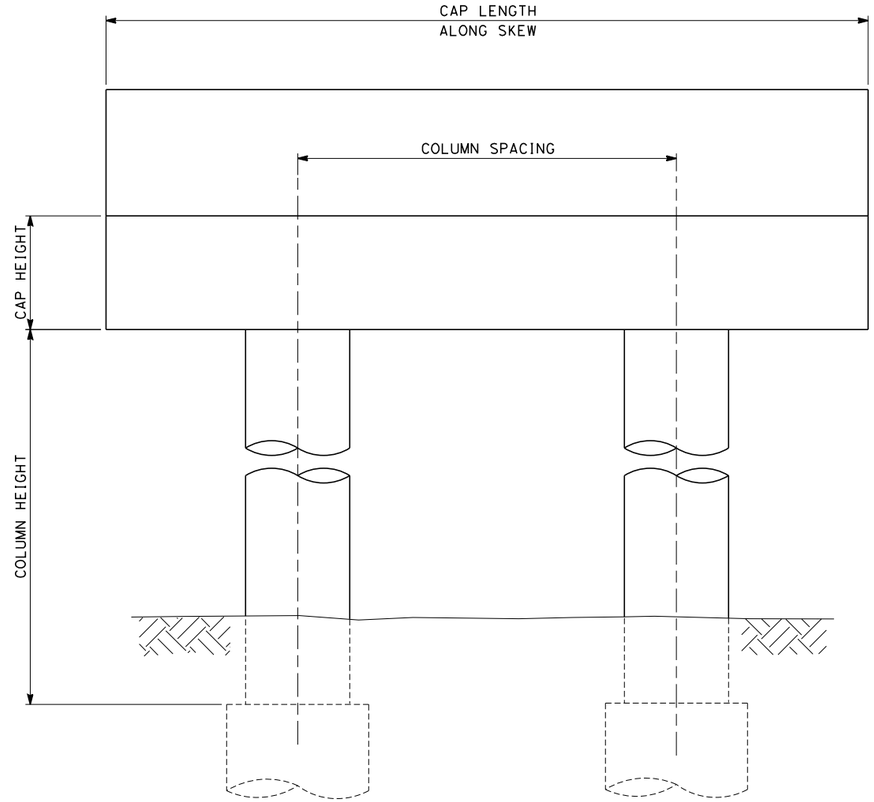
hallal



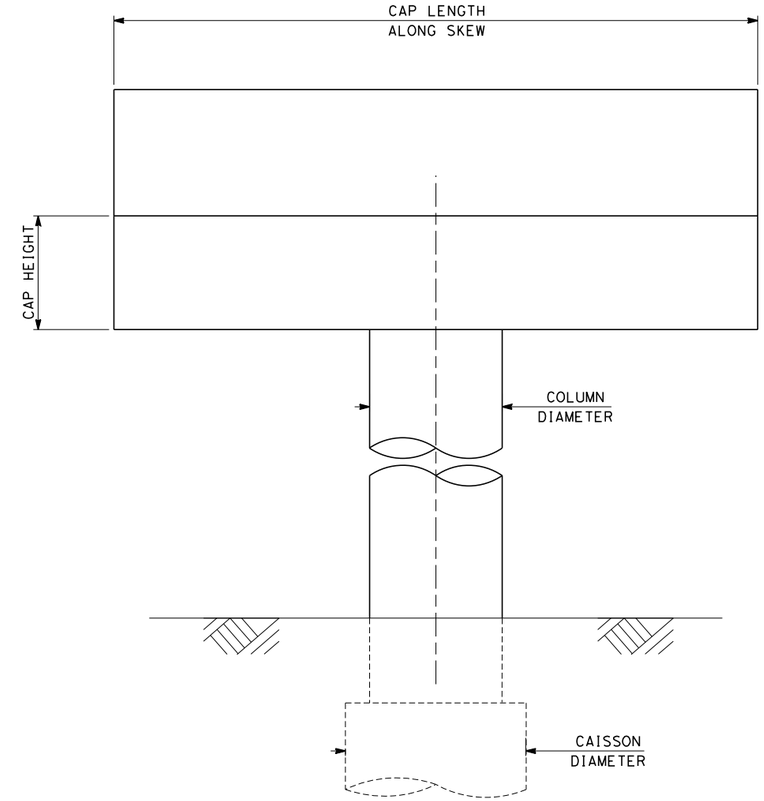
END BENT - END ELEVATION

IDAHO, JACKSON, KENT, & KANSAS AVENUES



END BENT ELEVATION

JACKSON AVENUE



END BENT ELEVATION

IDAHO, KENT, & KANSAS AVENUES

	NUMBER OF COLUMNS	COLUMN SPACING (ft.)	COLUMN DIAMETER (ft.)	CAISSON DIAMETER (ft.)	COLUMN HEIGHT (ft.)	CAP LENGTH (ft.)	CAP WIDTH (ft.)	CAP HEIGHT (ft.)
IDAHO AVENUE	1	--	5.5	7.5	34.0	35.0	7.5	6.5
JACKSON AVENUE	2	24	5.0	7.0	35.8	43.0	7.0	6.0
KENT AVENUE	1	--	5.5	7.5	36.5	35.0	7.5	6.5
KANSAS AVENUE	1	--	5.5	7.5	37.1	35.0	7.5	6.5

DISCLAIMER:
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DESIGNED BY C. CAYWOOD
DRAWN BY D. HALL
CHECKED BY D. JONES
IN CHARGE R. TREVETT
DATE 10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWEAH SUBSECTION
ALIGNMENT K4
ROADWAY BRIDGES
END BENT DETAILS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV24XX
SCALE AS SHOWN
SHEET NO. X OF XX

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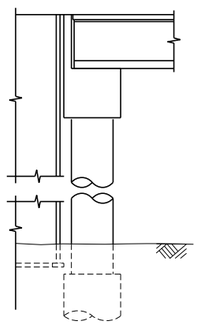
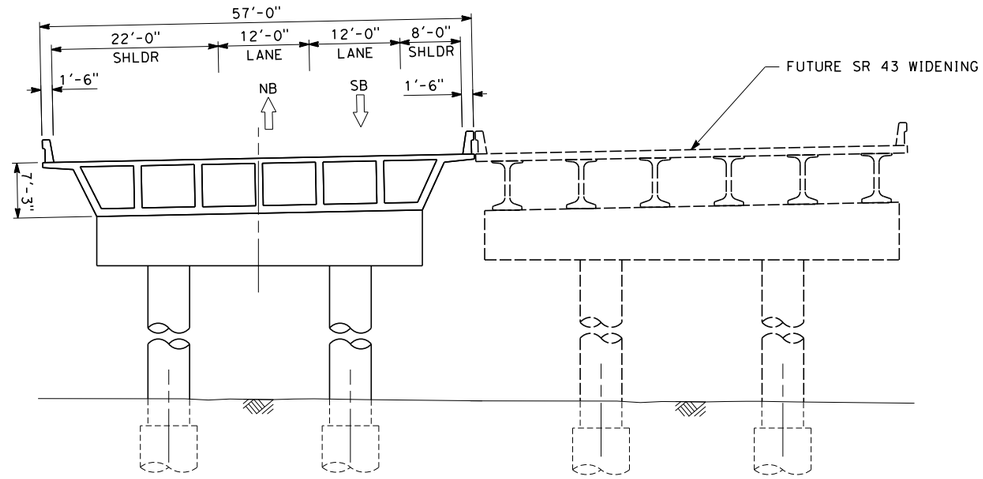
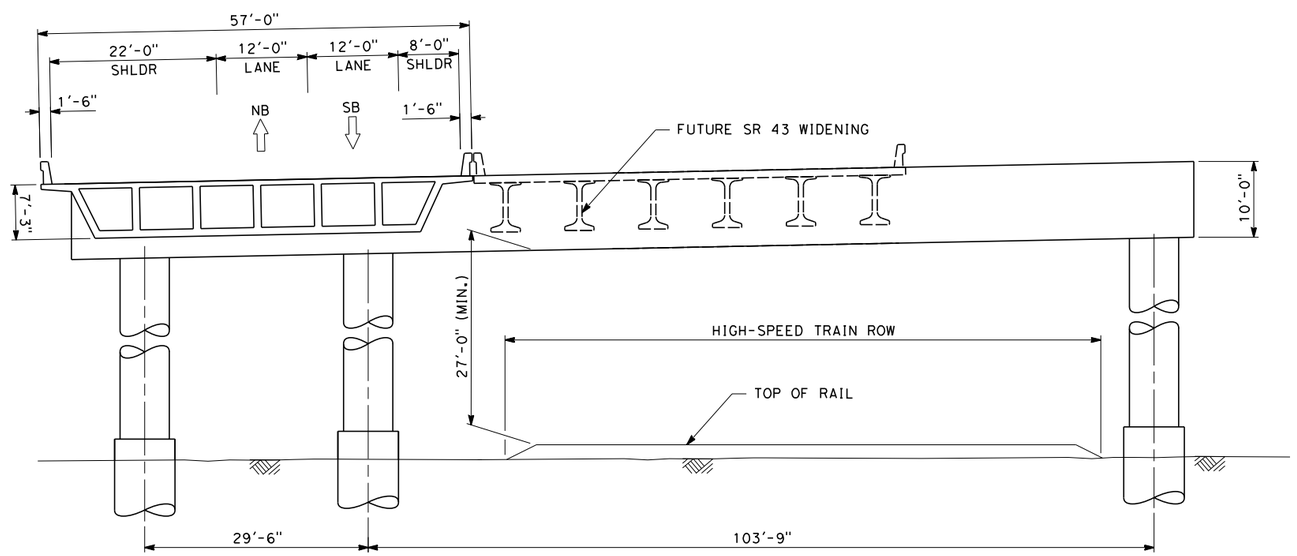


END VIEW AT ABUTMENT



TYPICAL SECTION AT ABUTMENT



TYPICAL SECTION AT STRADDLE BENT 2

LOOKING SOUTH

40 0 40 80

1"=40'

REDUCTION IN CONSTRUCTION LIMITS

DISCLAIMER:
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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ATC 2 - FUTURE WIDENING OF
SR 43 OVER HST
STA. 2535+00
SECTION AT ABUTMENT & BENT 2

CONTRACT NO.
DRAWING NO.
SCALE
SHEET NO.

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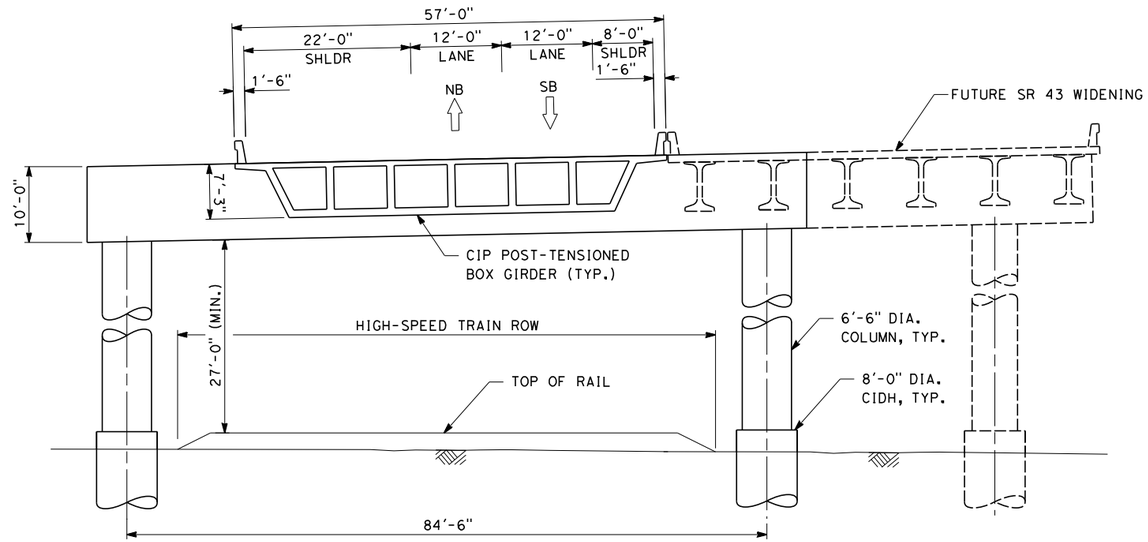
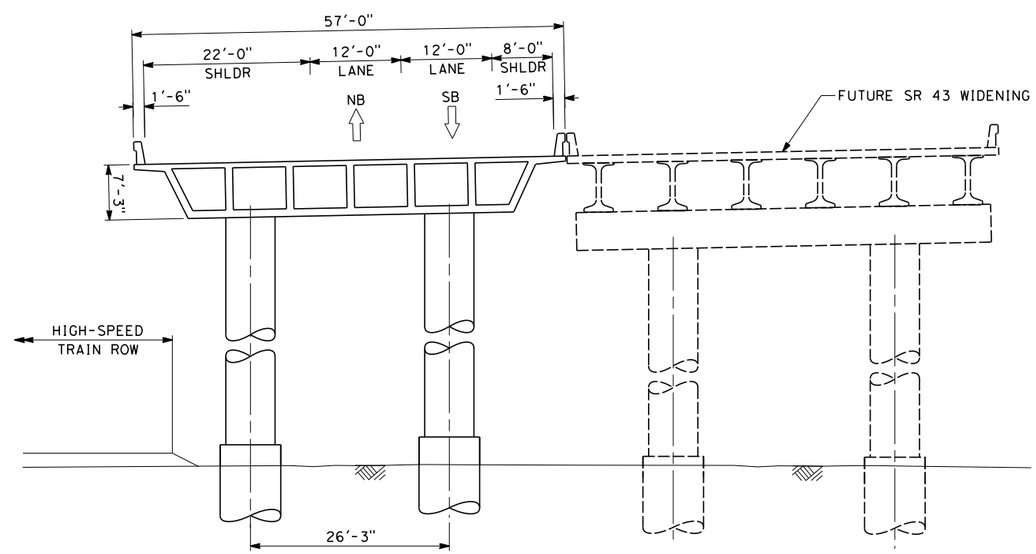
hallidl



TYPICAL SECTION AT STRADDLE BENT 3

LOOKING SOUTH



TYPICAL SECTION AT BENT 4

LOOKING SOUTH

40 0 40 80

1"=40'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

LOOKING SOUTH

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ATC 2 - FUTURE WIDENING OF
SR 43 OVER HST
STA. 2535+00
SECTION AT BENT 3 & 4

CONTRACT NO.	
DRAWING NO.	
SCALE	
SHEET NO.	

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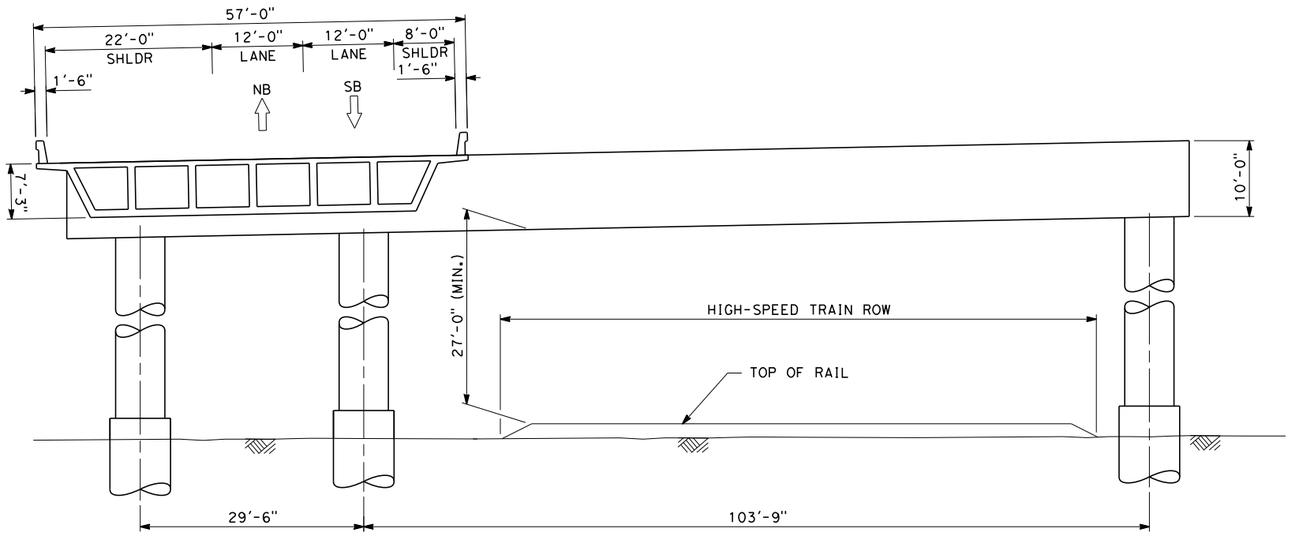
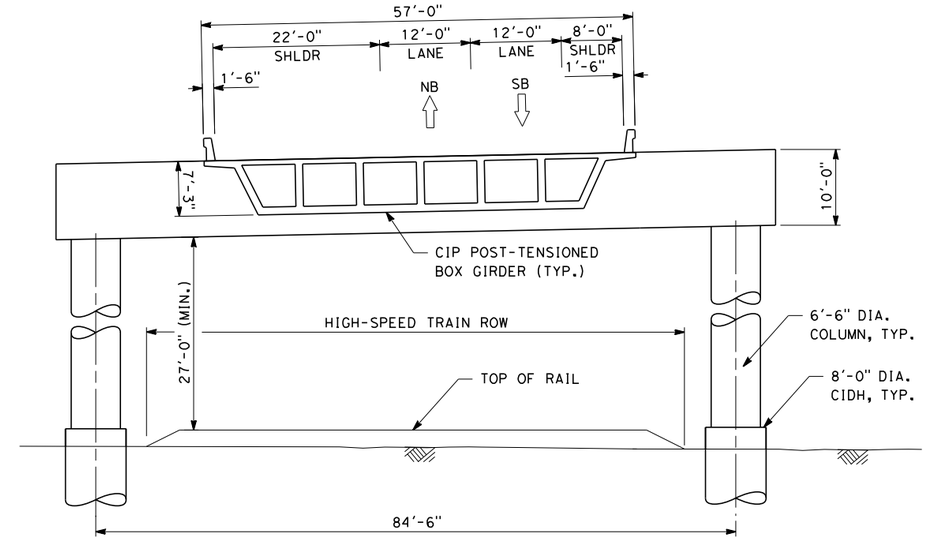


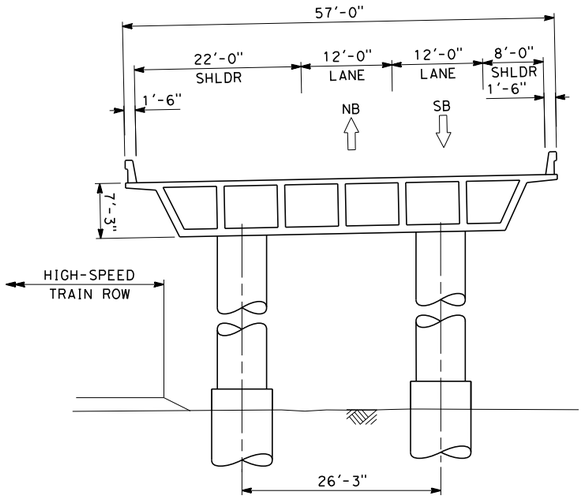
TYPICAL SECTION AT STRADDLE BENT 2

LOOKING SOUTH



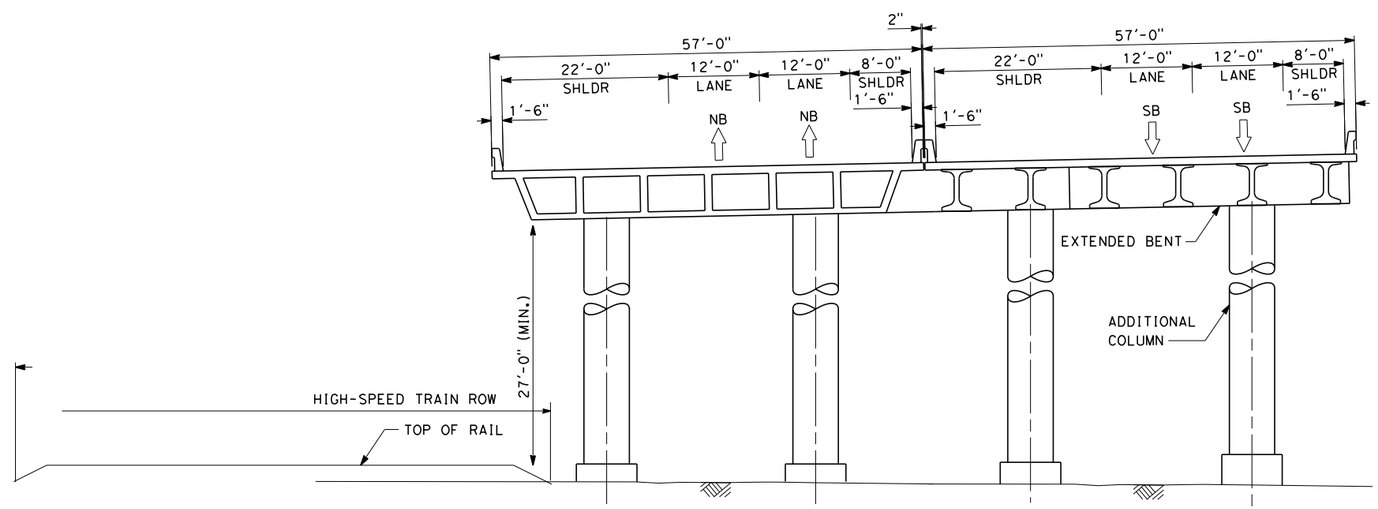
TYPICAL SECTION AT STRADDLE BENT 3

LOOKING SOUTH



TYPICAL SECTION AT BENT 4

LOOKING SOUTH



TYPICAL SECTION AT BENT 4

LOOKING SOUTH

40 0 40 80

1"=40'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

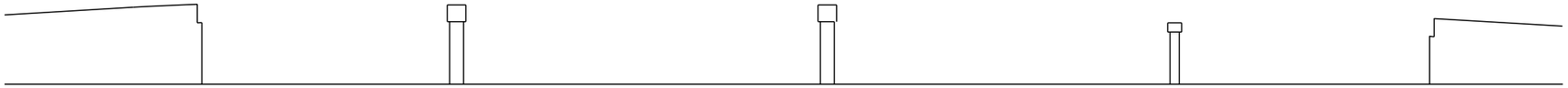
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

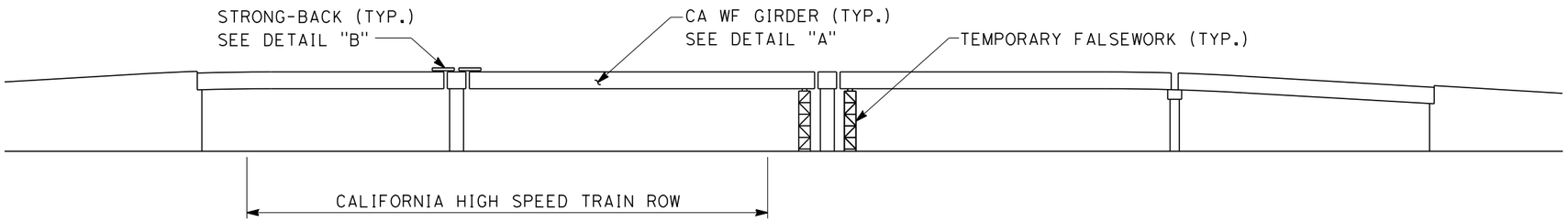
PROPOSED SR 43 OVER HST
STRUCTURE K-8

CONTRACT NO.
DRAWING NO.
SCALE
SHEET NO.

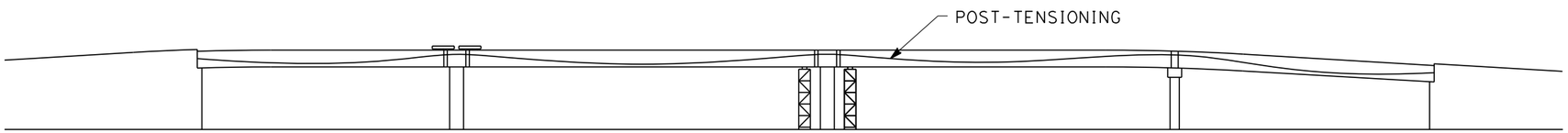
10/10/2014 2:03:44 PM c:\pwworking\nai\haildl\d0175804\SR43 ATC 2 PROP DETAILS K8-BENT 4.dgn
haildl



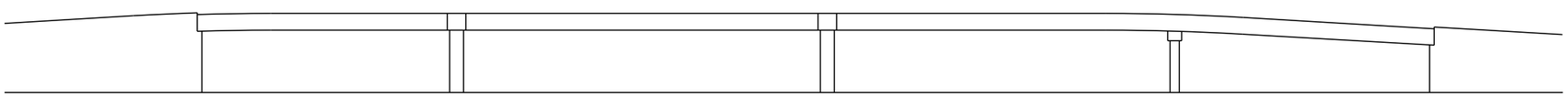
PHASE 1 - CONSTRUCT/EXTEND APPROACHES AND ABUTMENTS 1 AND 5 AND BENT 4 FOR WIDENING.



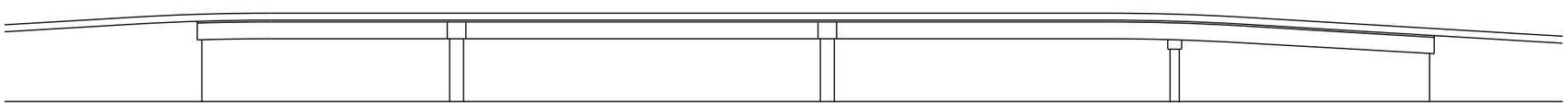
PHASE 2 - ERECT PRESTRESSED CONCRETE CA WF GIRDERS USING STRONG-BACKS AND FALSEWORK.



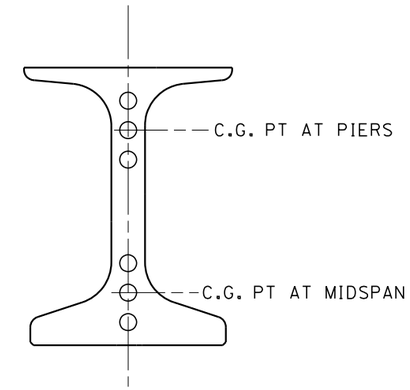
PHASE 3 - POUR CLOSURE JOINTS/SPLICES AT EACH PEIR. INSTALL AND STRESS CONTINUOUS POST-TENSIONING.



PHASE 4 - REMOVE STRONG-BACKS AND FALSEWORK. FORM DECK.

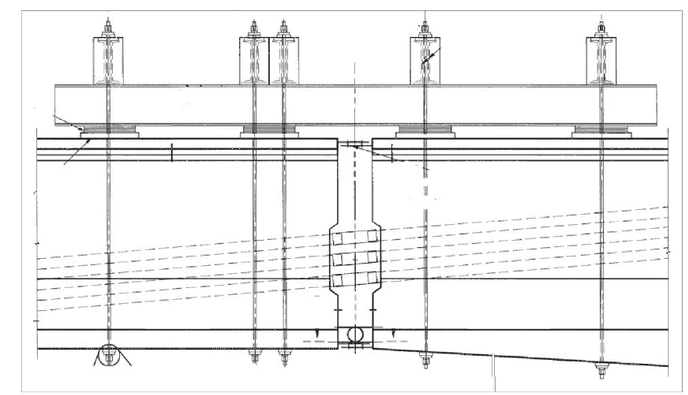


PHASE 5 - POUR DECK AND BARRIERS.



DETAIL "A"

CALIFORNIA STANDARD POST-TENSIONED
WIDE-FLANGE GIRDER



DETAIL "B"

SCHEMATIC OF STRONG-BACK USE
FOR ERECTING GIRDERS OVER
HST ROW WITHOUT FALSEWORK

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY	K. LEE
DRAWN BY	A. PRICE
CHECKED BY	G. DREESZEN
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

ATC 2 - CONSTRUCTION OF FUTURE
WIDENING OF SR 43 OVER HST
STA. 2535+00

CONTRACT NO.	
DRAWING NO.	
SCALE	
SHEET NO.	

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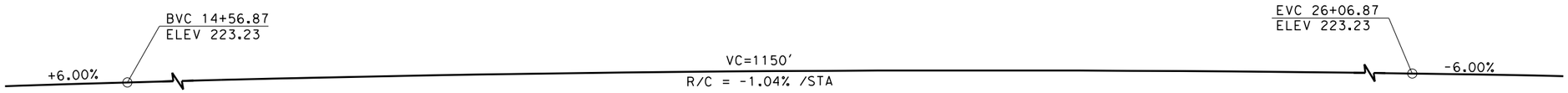
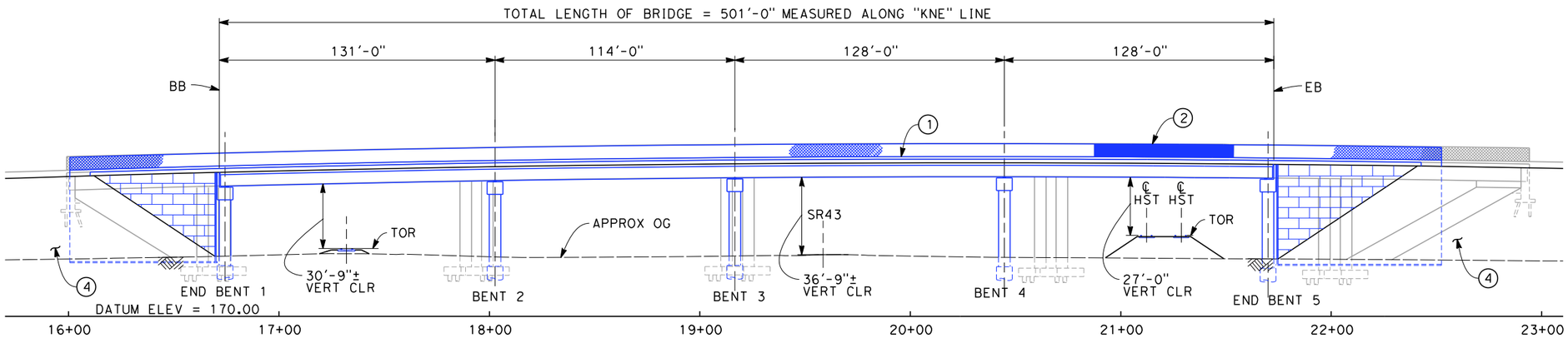
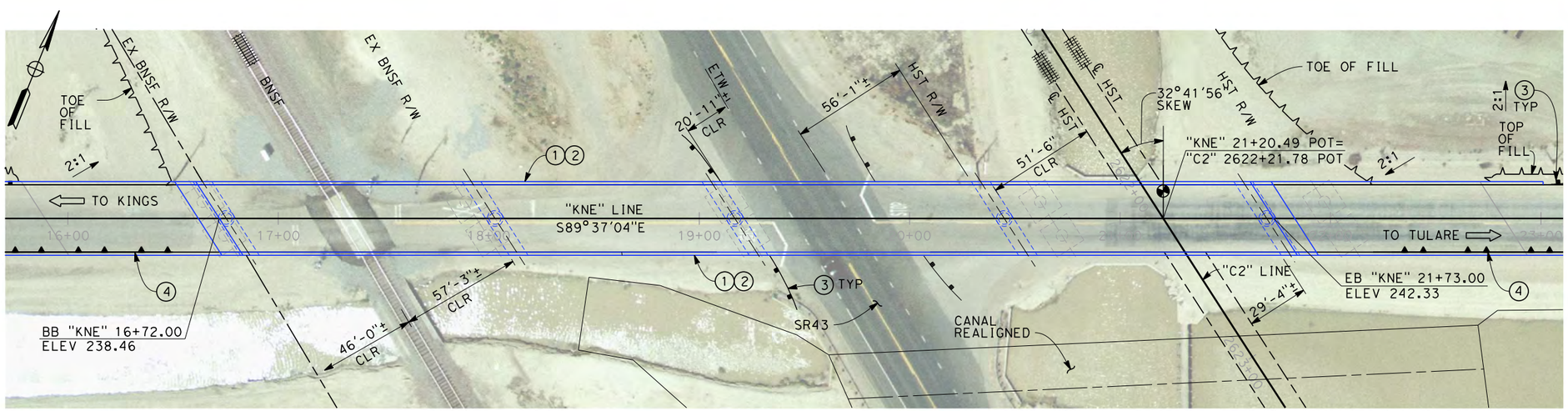
haildl



PROFILE GRADE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR
4. RETAINING WALL, TO BE DETERMINED

RFP DESIGN

DFS PROPOSED

30 0 30 60
1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	D. HALL
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
OVERHEAD PLANNING STUDY
NEVADA AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2239
SCALE	AS SHOWN
SHEET NO.	2 OF 3

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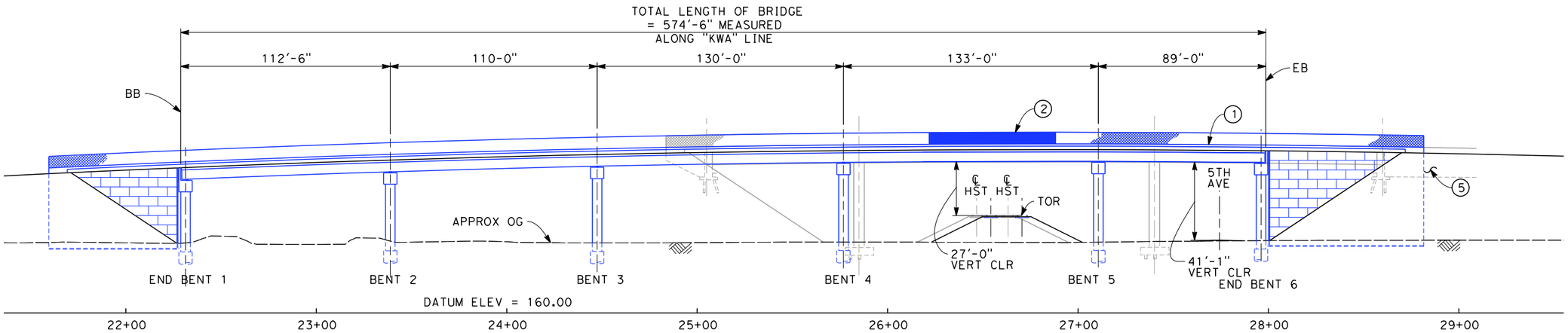
halldl

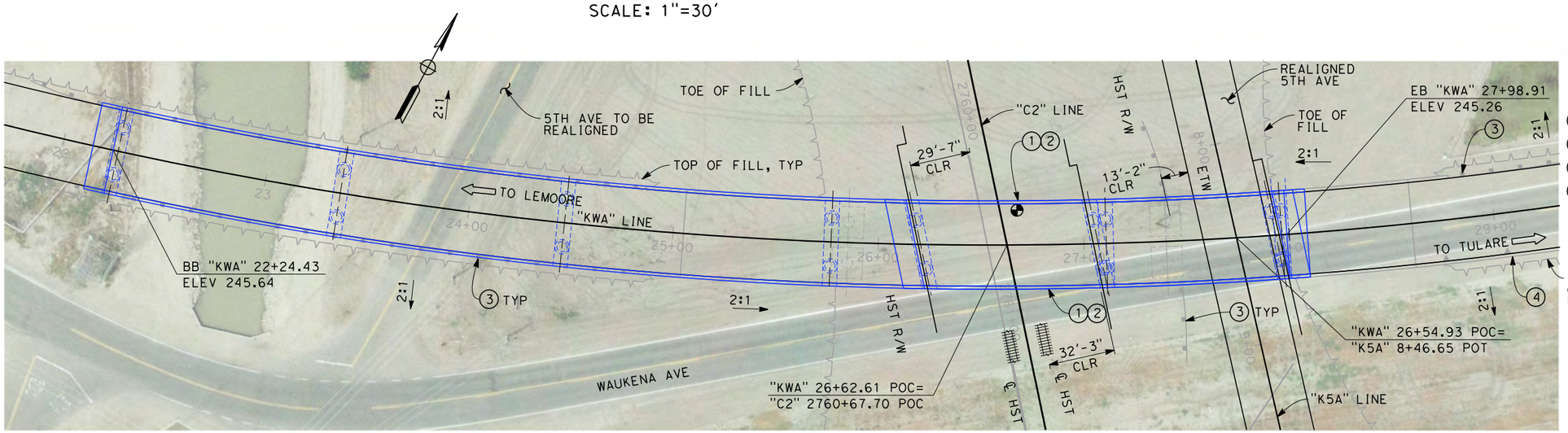
PROFILE GRADE

NO SCALE



ELEVATION

SCALE: 1"=30'



PLAN

SCALE: 1"=30'

30 0 30 60

1"=30'

NOTES:

1. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR
4. RETAINING WALL, TYPE TO BE DETERMINED

RFP DESIGN

DFS PROPOSED

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DRAWN BY	D. HALL
CHECKED BY	D JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
OVERHEAD PLANNING STUDY
CORCORAN HWY

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2244
SCALE	AS SHOWN
SHEET NO.	3 OF 3

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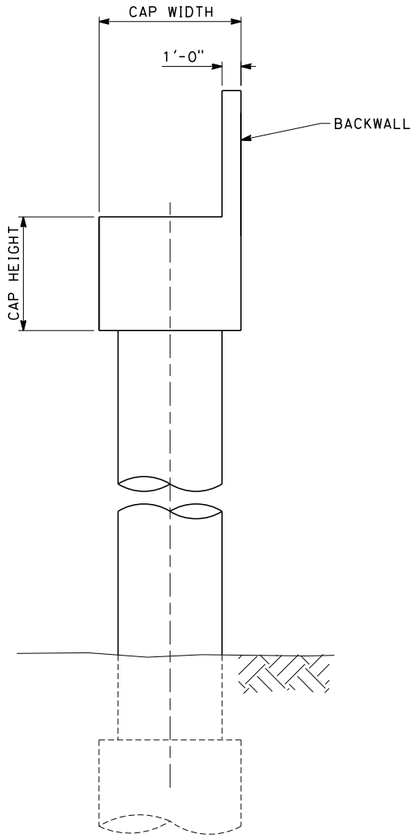
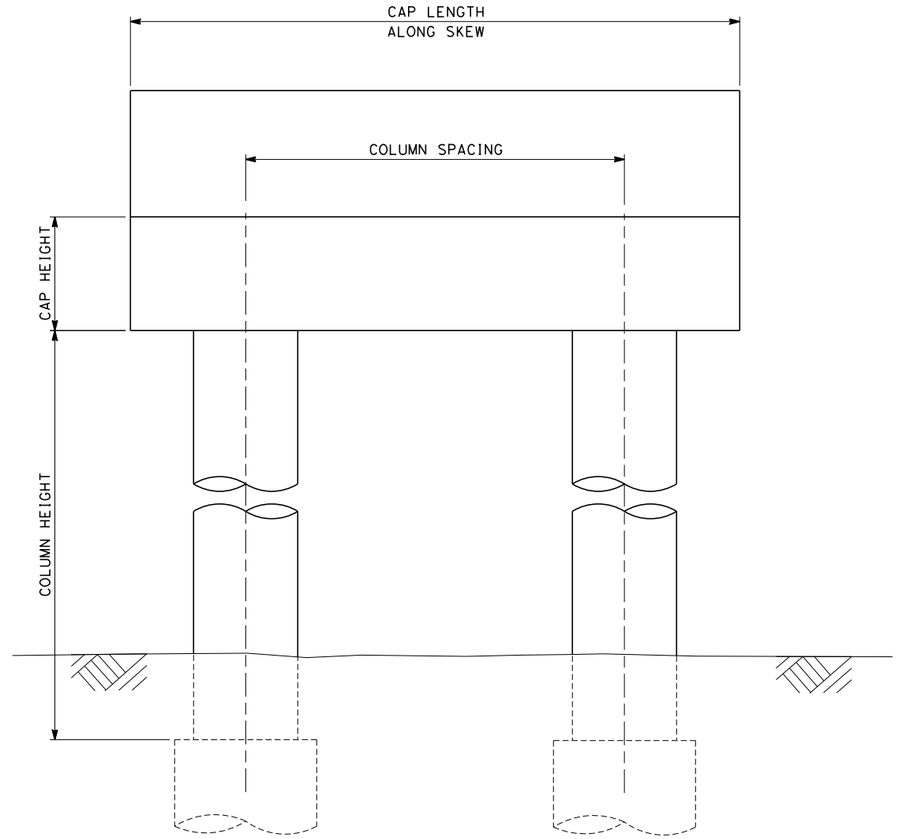


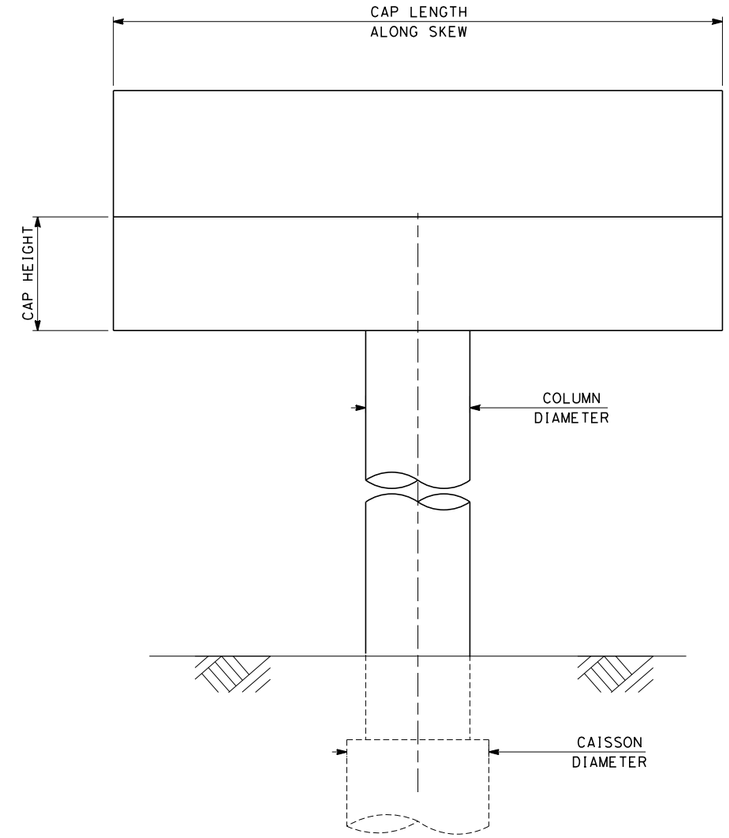
END BENT - END ELEVATION

NEVADA & CORCORAN AVENUES



END BENT ELEVATION

CORCORAN AVENUE



END BENT ELEVATION

NEVADA AVENUE

	NUMBER OF COLUMNS	COLUMN SPACING (ft.)	COLUMN DIAMETER (ft.)	CAISSON DIAMETER (ft.)	COLUMN HEIGHT (ft.)	CAP LENGTH (ft.)	CAP WIDTH (ft.)	CAP HEIGHT (ft.)
NEVADA AVENUE	1	--	5.5	7.5	34.0	41'-6"	7.5	6.0
CORCORAN AVENUE	2	24	5.0	7.0	35.8	43'-9"	7.0	6.0

dreeszega 10/15/2014 2:29:44 PM c:\pwworking\nai\dreeszega\d0175805\FB-SV-22xx-C2_E-BENT-DETL.dgn

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DRAWN BY D. HALL
CHECKED BY D. JONES
IN CHARGE R. TREVETT
DATE 10/09/14

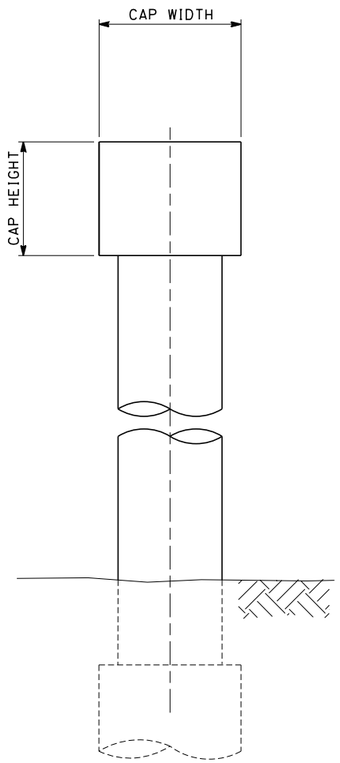
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

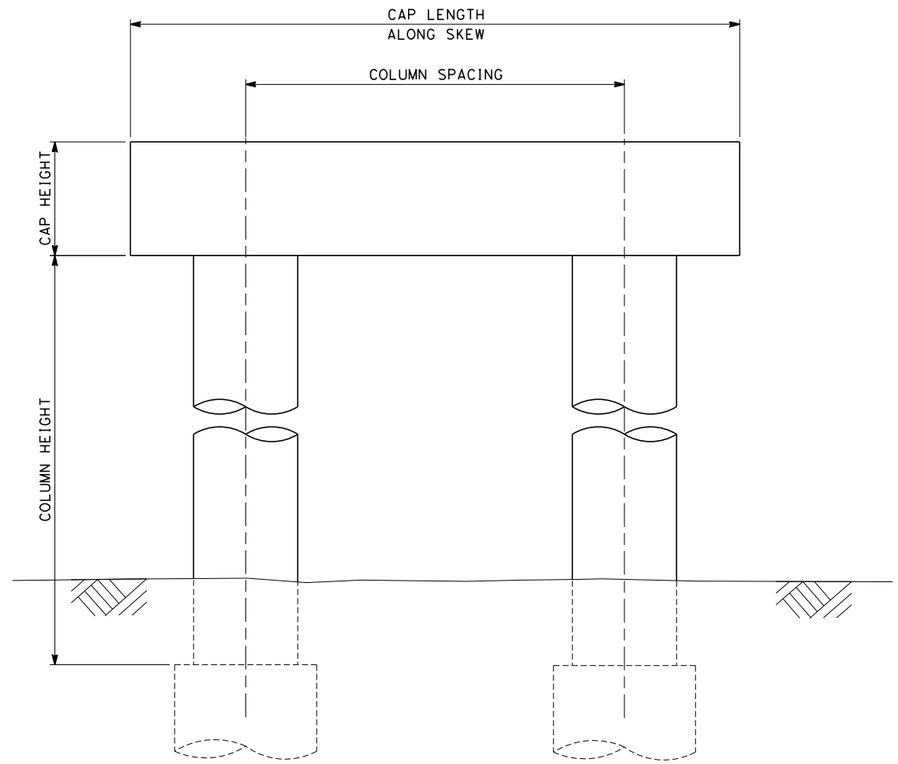
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
ROADWAY BRIDGES
END BENT DETAILS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV22XX-C2
SCALE AS SHOWN
SHEET NO. X OF XX



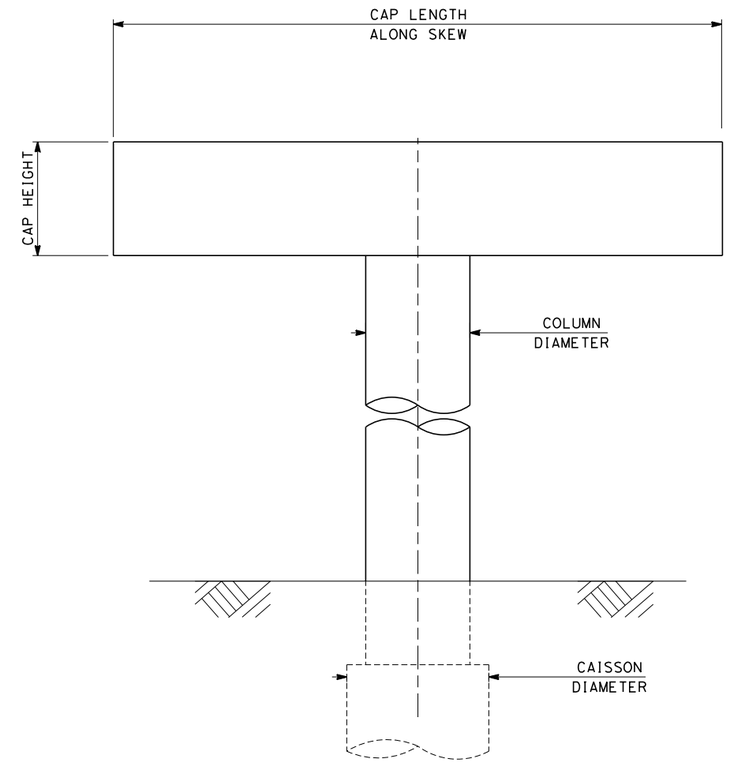
BENT END ELEVATION

NEVADA & CORCORAN AVENUES



BENT ELEVATION

CORCORAN AVENUE



BENT ELEVATION

NEVADA AVENUE

	NUMBER OF COLUMNS	COLUMN SPACING (ft.)	COLUMN DIAMETER (ft.)	CAISSON DIAMETER (ft.)	COLUMN HEIGHT (ft.)	CAP LENGTH (ft.)	CAP WIDTH (ft.)	CAP HEIGHT (ft.)
NEVADA AVENUE	1	--	5.5	7.5	34.0	41'-6"	7.5	6.0
CORCORAN AVENUE	2	24	5.0	7.0	35.8	43'-9"	7.0	6.0

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DESIGNED BY C. CAYWOOD
DRAWN BY D. HALL
CHECKED BY D. JONES
IN CHARGE R. TREVETT
DATE 10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
ROADWAY BRIDGES
BENT DETAILS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV22XX-C2
SCALE AS SHOWN
SHEET NO. X OF XX

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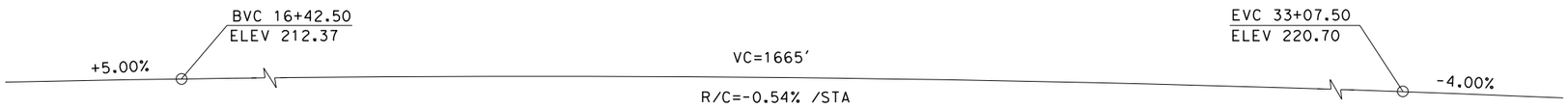
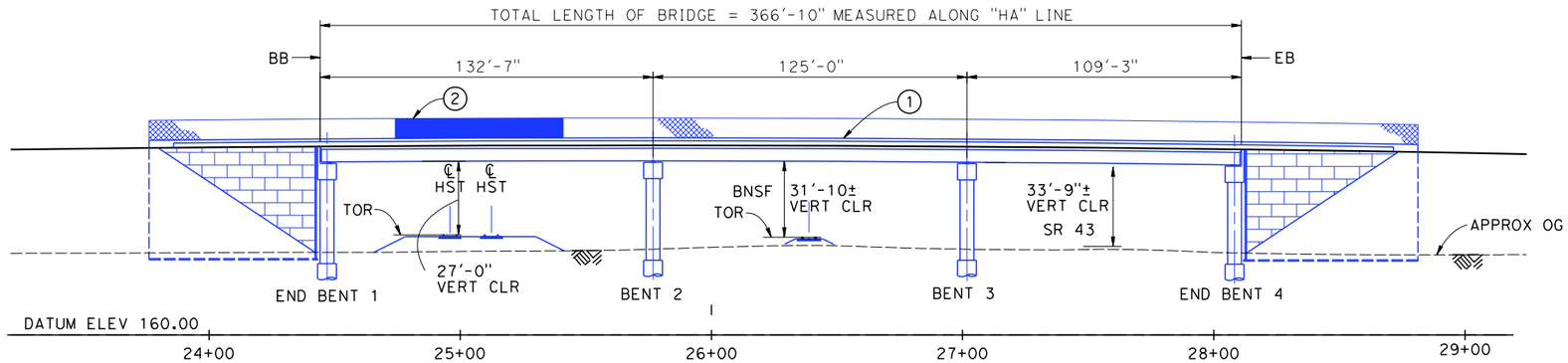
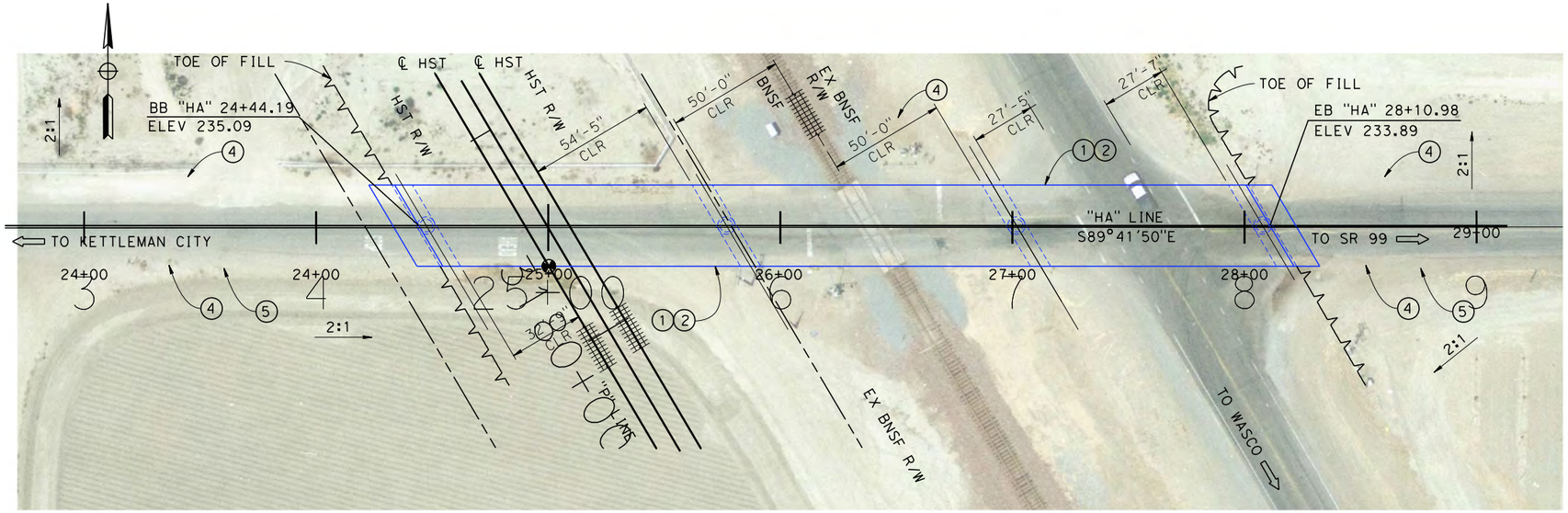


PROFILE GRADE
NO SCALE



ELEVATION
SCALE:1"=30'



PLAN
SCALE:1"=30'

NOTES:

1. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR
4. RETAINING WALL
5. EXISTING CULVERT

RFP DESIGN
DFS PROPOSED

30 0 30 60
SCALE: 1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	D. HALL
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
OVERHEAD PLANNING STUDY
HESSE AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2411
SCALE	
SHEET NO.	3 OF 5

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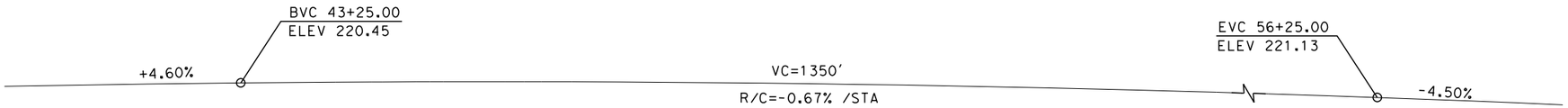
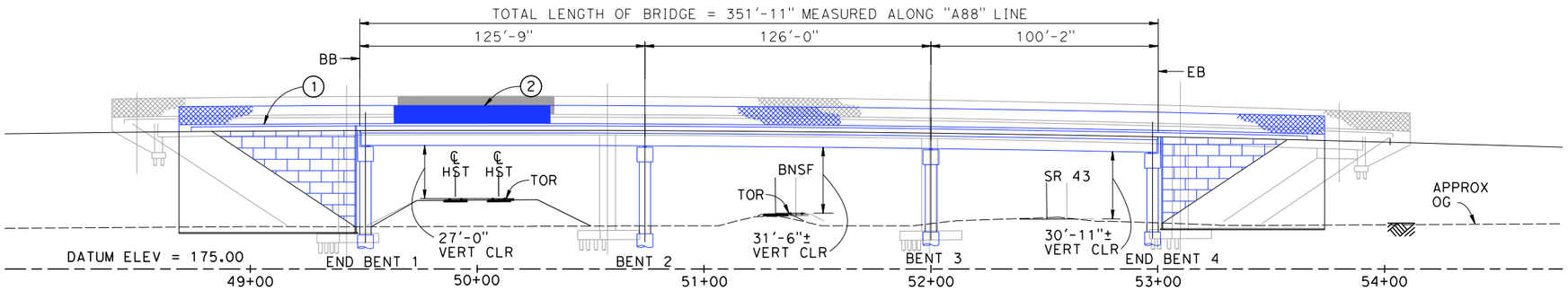
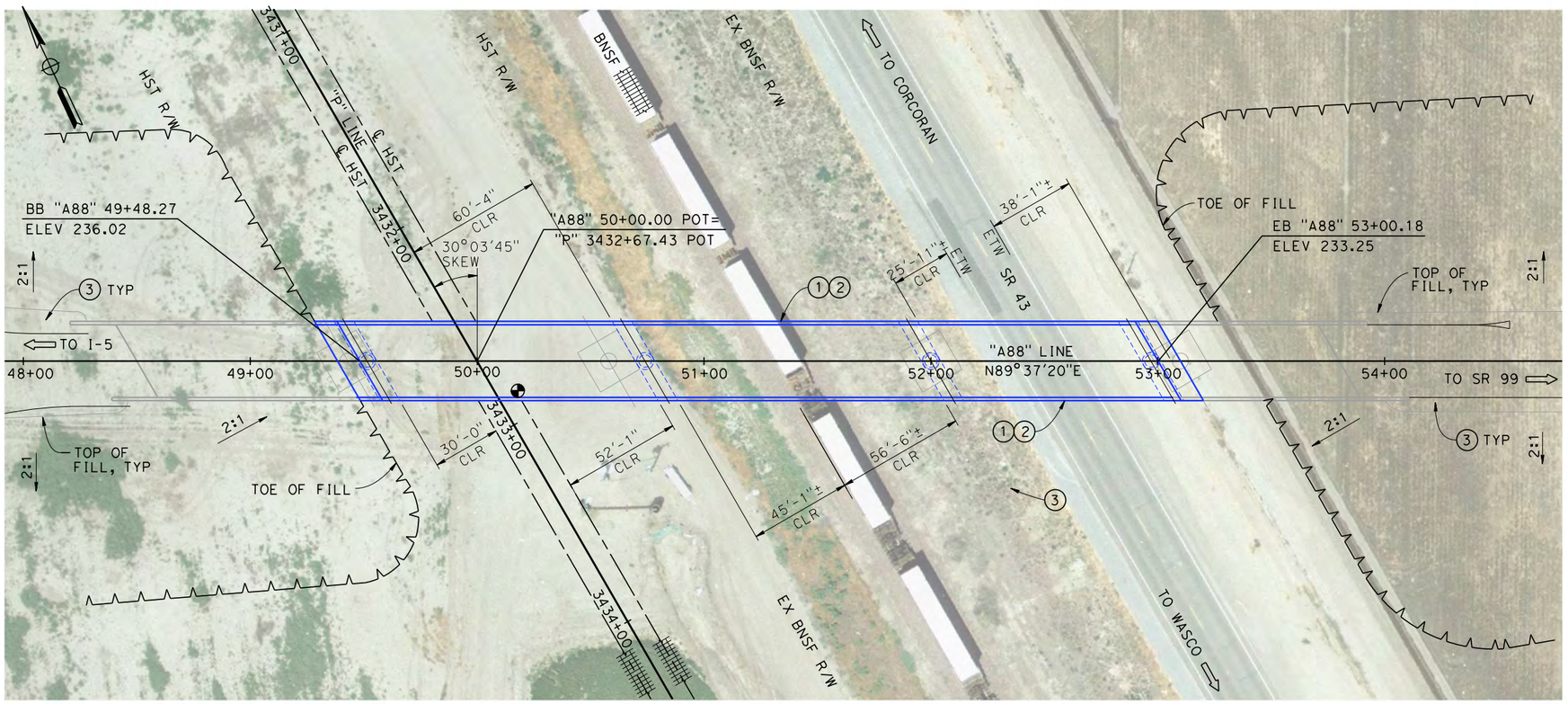
hallal



PROFILE GRADE
NO SCALE



ELEVATION
SCALE:1"=30'



PLAN
SCALE:1"=30'

NOTES:

1. FOR MINIMUM VERTICAL CLEARANCESS, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60

SCALE: 1"=30'

REDUCTION IN CONSTRUCTION LIMITS

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DESIGNED BY	C. CAYWOOD
DRAWN BY	D. HALL
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
OVERHEAD PLANNING STUDY
AVE 88

CONTRACT NO.	
DRAWING NO.	
SCALE	ST2431
SHEET NO.	

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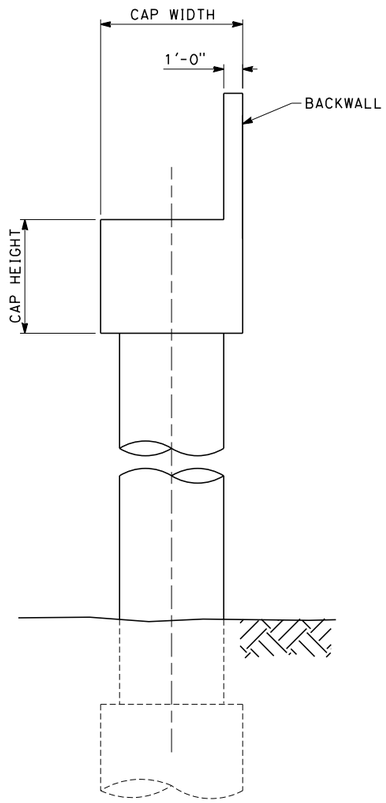
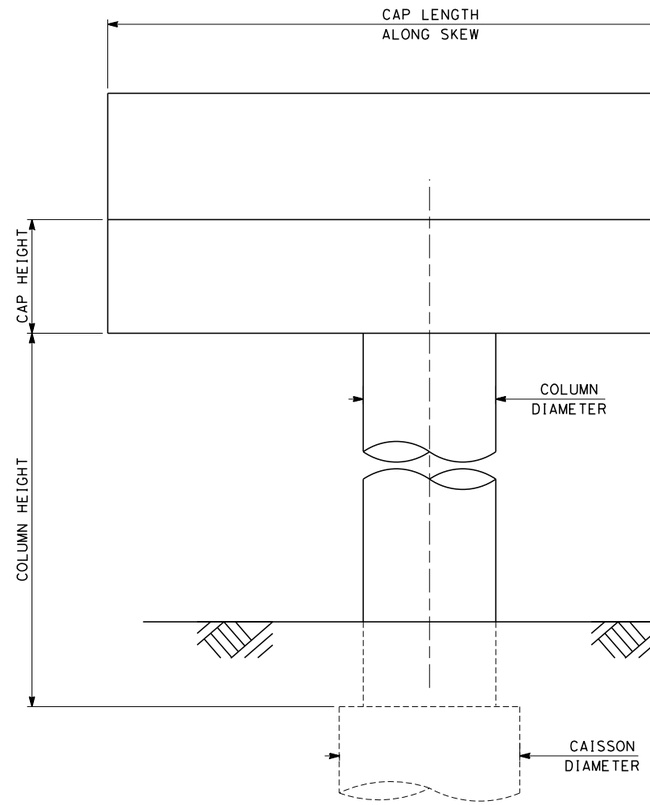
halldi



END BENT - END ELEVATION

HESSE AVENUE AND AVENUE 88



END BENT - ELEVATION

HESSE AVENUE AND AVENUE 88

	NUMBER OF COLUMNS	COLUMN SPACING (ft.)	COLUMN DIAMETER (ft.)	CAISSON DIAMETER (ft.)	COLUMN HEIGHT (ft.)	CAP LENGTH (ft.)	CAP WIDTH (ft.)	CAP HEIGHT (ft.)
HESSE AVENUE	1	--	5.5	7.5	34.0	35'-0"	7.5	6.5
AVENUE 88	1	--	5.5	7.5	33.5	41'-3"	7.5	6.0

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DRAWN BY D. HALL
CHECKED BY D. JONES
IN CHARGE R. TREVETT
DATE 10/09/14

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DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
ROADWAY BRIDGES
END BENT DETAILS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV24XX
SCALE AS SHOWN
SHEET NO. X OF XX

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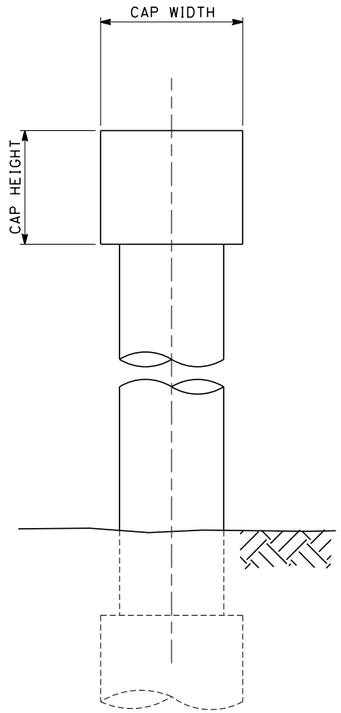
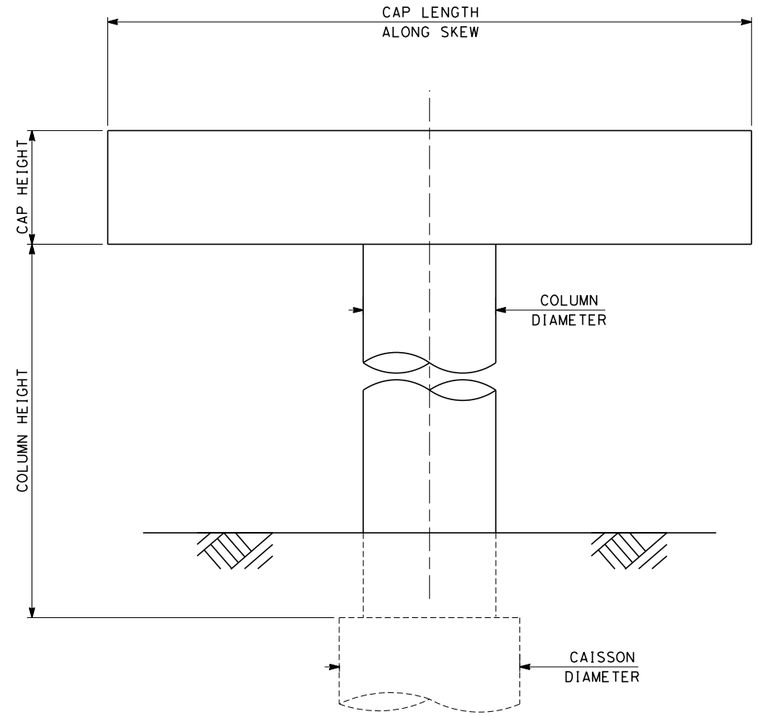
dreeszega



BENT END ELEVATION

HESSE AVENUE AND AVENUE 88



BENT ELEVATION

HESSE AVENUE AND AVENUE 88

	NUMBER OF COLUMNS	COLUMN SPACING (ft.)	COLUMN DIAMETER (ft.)	CAISSON DIAMETER (ft.)	COLUMN HEIGHT (ft.)	CAP LENGTH (ft.)	CAP WIDTH (ft.)	CAP HEIGHT (ft.)
HESSE AVENUE	1	--	5.5	7.5	34.0	35'-0"	7.5	6.5
AVENUE 88	1	--	5.5	7.5	33.5	41'-3"	7.5	6.0

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DRAWN BY D. HALL
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IN CHARGE R. TREVETT
DATE 10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
ROADWAY BRIDGES
BENT DETAILS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV24XX
SCALE AS SHOWN
SHEET NO. X OF XX

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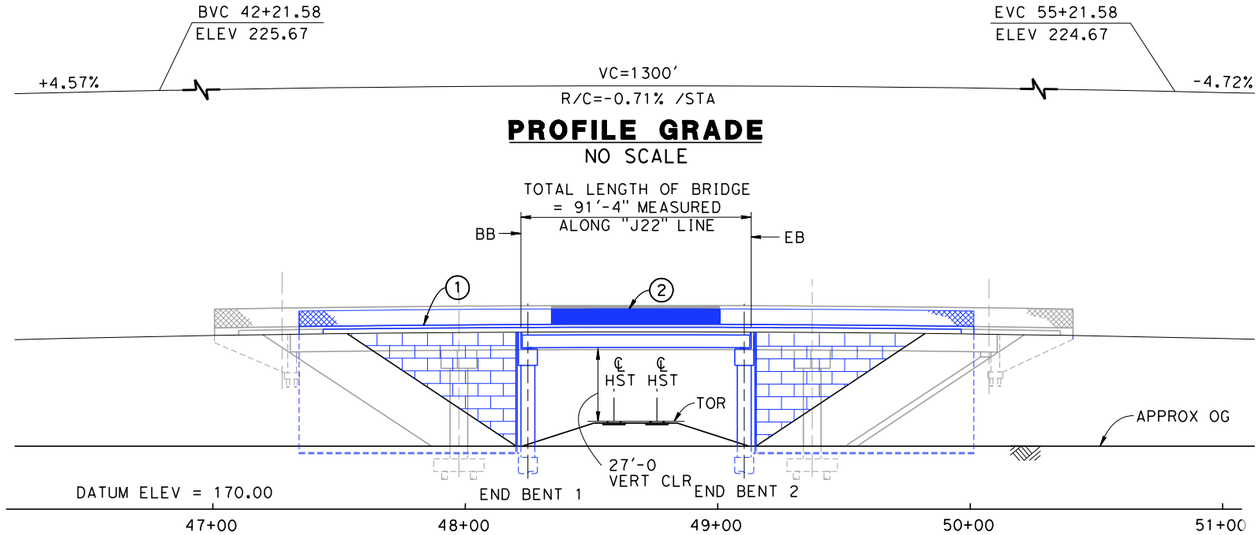
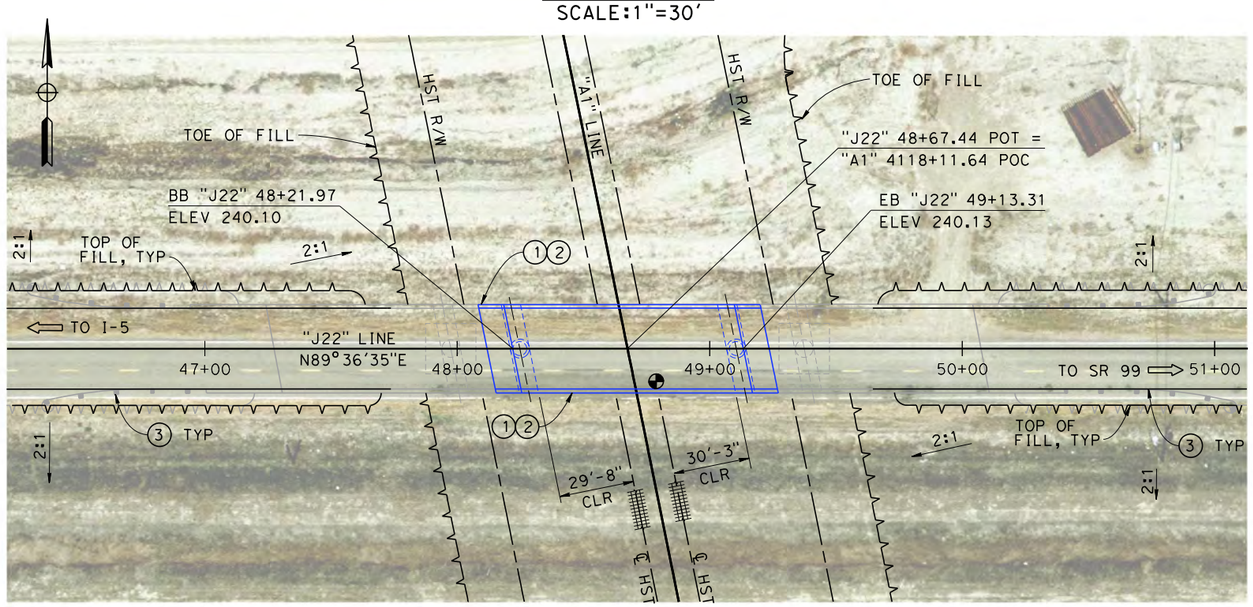


PROFILE GRADE

NO SCALE

ELEVATION

SCALE:1"=30'



PLAN

SCALE:1"=30'

NOTES:

1. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. MBGR

RFP DESIGN

DFS PROPOSED

30 0 30 60

SCALE: 1"=30'

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DESIGNED BY	C. CAYWOOD
DRAWN BY	D. HALL
CHECKED BY	D. JONES
IN CHARGE	R. TREVETT
DATE	10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
OVERHEAD PLANNING STUDY
COUNTY RD J22

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2501
SCALE	
SHEET NO.	2 OF 5

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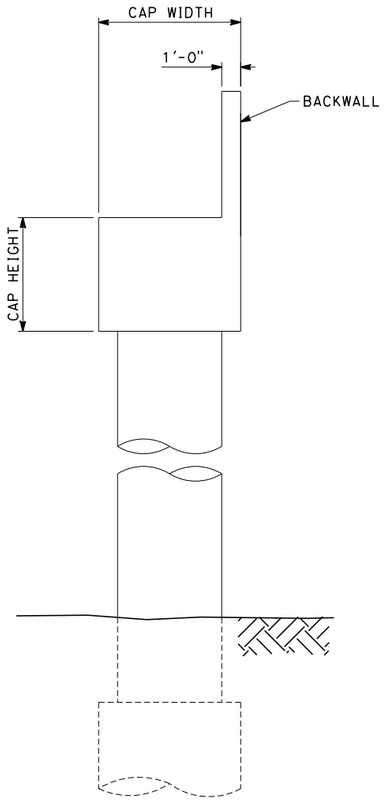
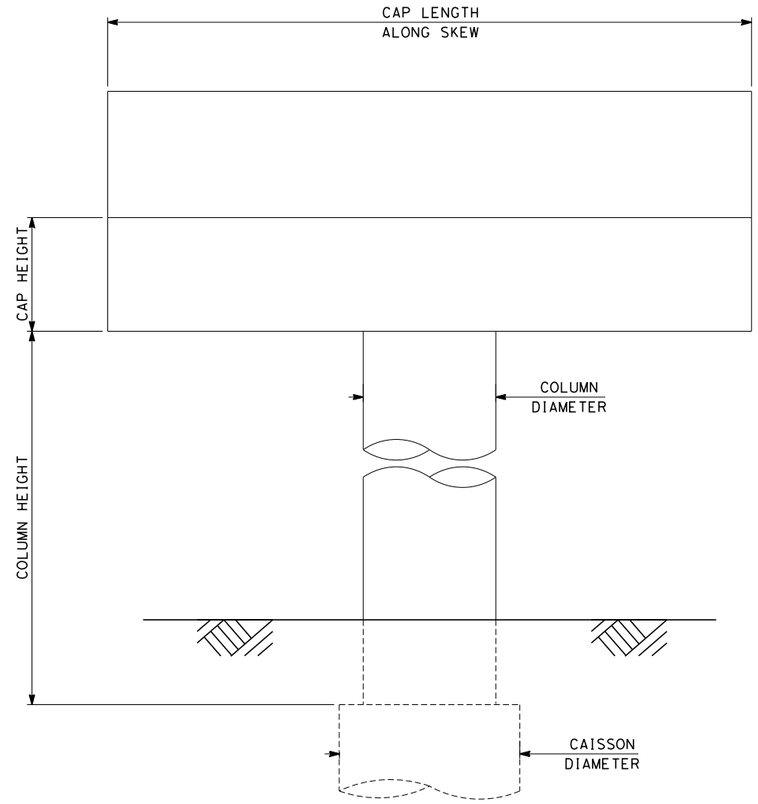


END BENT - END ELEVATION

COUNTY ROAD J22



END BENT - ELEVATION

	NUMBER OF COLUMNS	COLUMN SPACING (ft.)	COLUMN DIAMETER (ft.)	CAISSON DIAMETER (ft.)	COLUMN HEIGHT (ft.)	CAP LENGTH (ft.)	CAP WIDTH (ft.)	CAP HEIGHT (ft.)
COUNTY ROAD J22	1	--	5.5	7.5	35.3	35'-9"	7.5	6.5

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IN CHARGE R. TREVETT
DATE 10/09/14

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
ROADWAY BRIDGES
END BENT DETAILS

CONTRACT NO. HSR 06-0003
DRAWING NO. SV24XX
SCALE AS SHOWN
SHEET NO. X OF XX

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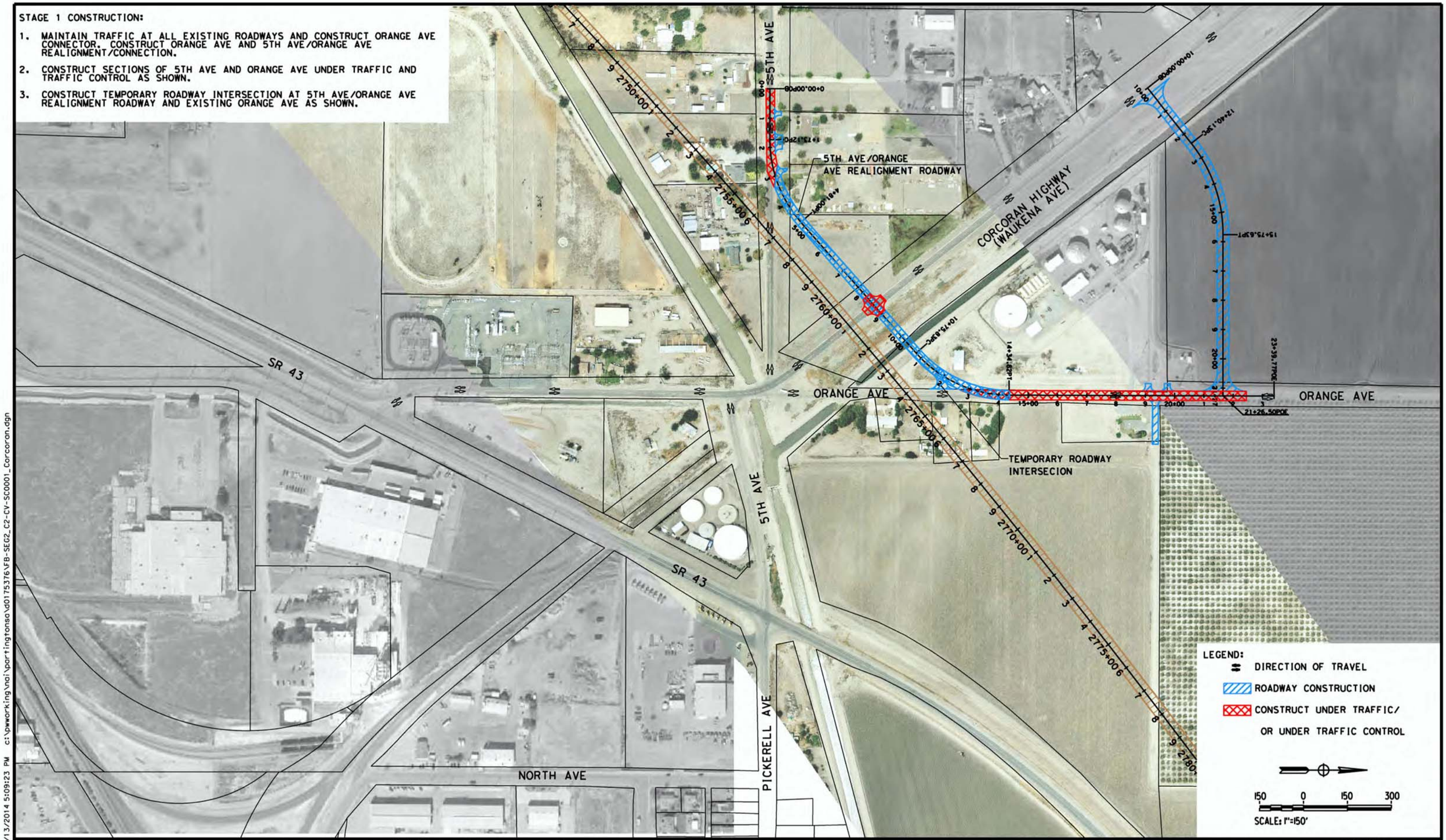
STAGE 1 CONSTRUCTION:

1. MAINTAIN TRAFFIC AT ALL EXISTING ROADWAYS AND CONSTRUCT ORANGE AVE CONNECTOR. CONSTRUCT ORANGE AVE AND 5TH AVE/ORANGE AVE REALIGNMENT/CONNECTION.
2. CONSTRUCT SECTIONS OF 5TH AVE AND ORANGE AVE UNDER TRAFFIC AND TRAFFIC CONTROL AS SHOWN.
3. CONSTRUCT TEMPORARY ROADWAY INTERSECTION AT 5TH AVE/ORANGE AVE REALIGNMENT ROADWAY AND EXISTING ORANGE AVE AS SHOWN.



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DESIGNED BY	B. Kidd
DRAWN BY	S. Partington
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C2
STAGE 1 CONSTRUCTION
CORCORAN HIGHWAY

CONTRACT NO.	HST 06-0003
DRAWING NO.	SC0001
SCALE	AS SHOWN
SHEET NO.	X OF X

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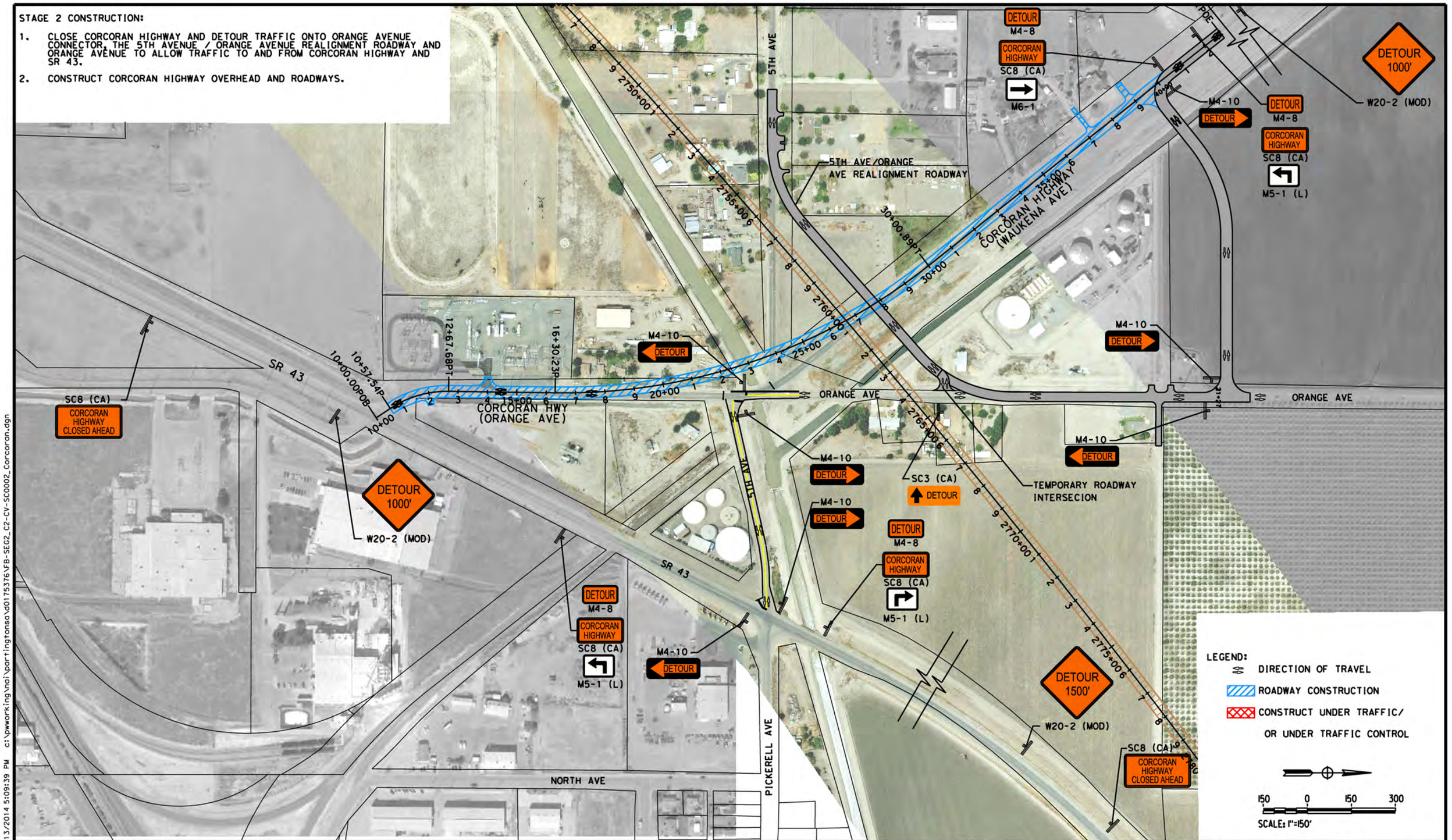
STAGE 2 CONSTRUCTION:

1. CLOSE CORCORAN HIGHWAY AND DETOUR TRAFFIC ONTO ORANGE AVENUE CONNECTOR, THE 5TH AVENUE / ORANGE AVENUE REALIGNMENT ROADWAY AND ORANGE AVENUE TO ALLOW TRAFFIC TO AND FROM CORCORAN HIGHWAY AND SR 43.
2. CONSTRUCT CORCORAN HIGHWAY OVERHEAD AND ROADWAYS.



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DESIGNED BY	B. Kidd
DRAWN BY	S. Partington
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C2
STAGE 2 CONSTRUCTION
CORCORAN HIGHWAY

CONTRACT NO.	HST 06-0003
DRAWING NO.	SC0002
SCALE	AS SHOWN
SHEET NO.	X OF X

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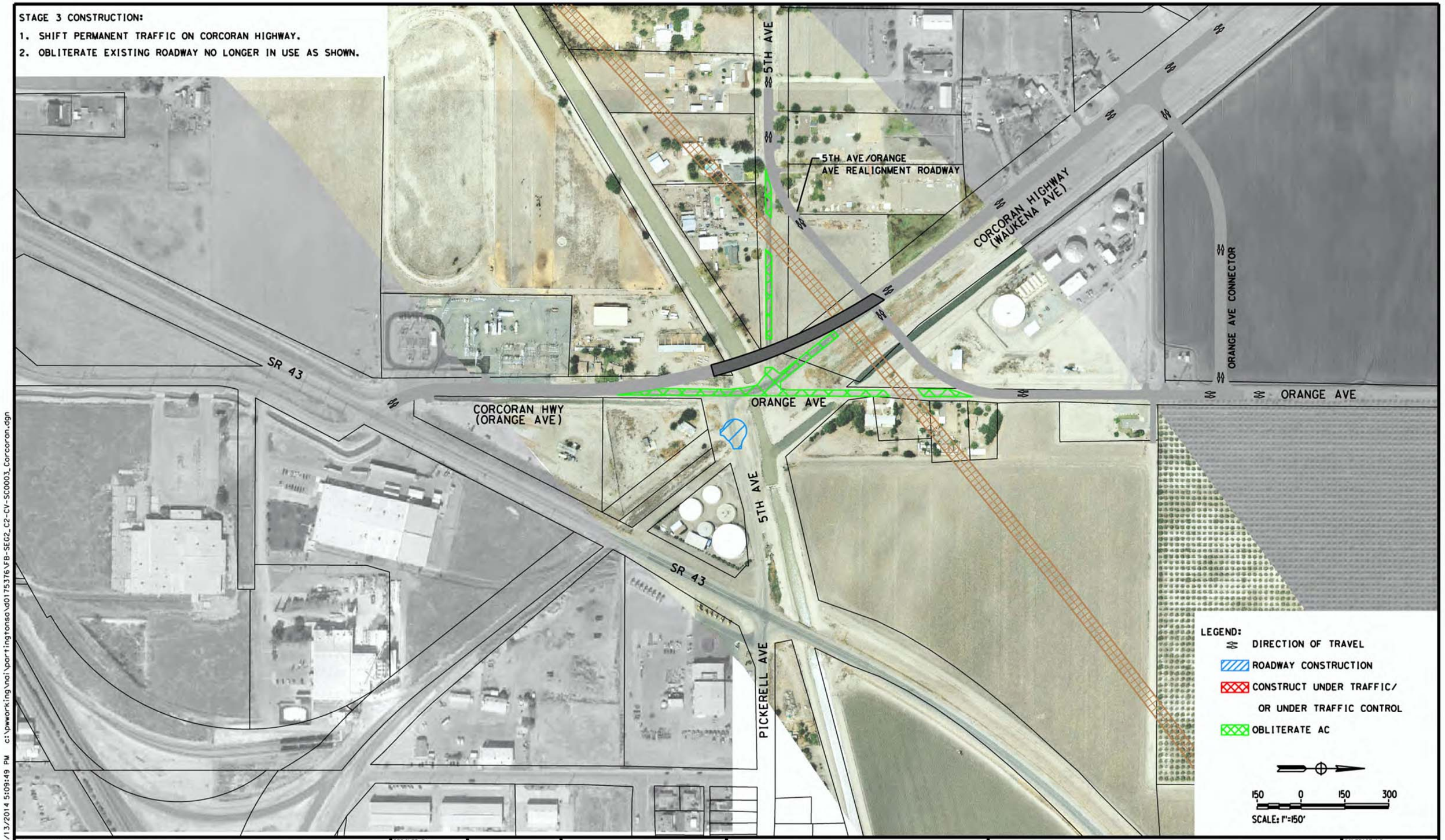
STAGE 3 CONSTRUCTION:

1. SHIFT PERMANENT TRAFFIC ON CORCORAN HIGHWAY.
2. OBLITERATE EXISTING ROADWAY NO LONGER IN USE AS SHOWN.



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DESIGNED BY	B. Kidd
DRAWN BY	S. Partington
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	

RECORD SET 15% DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C2
STAGE 3 CONSTRUCTION
CORCORAN HIGHWAY

CONTRACT NO.	HST 06-0003
DRAWING NO.	SC0003
SCALE	AS SHOWN
SHEET NO.	X OF X

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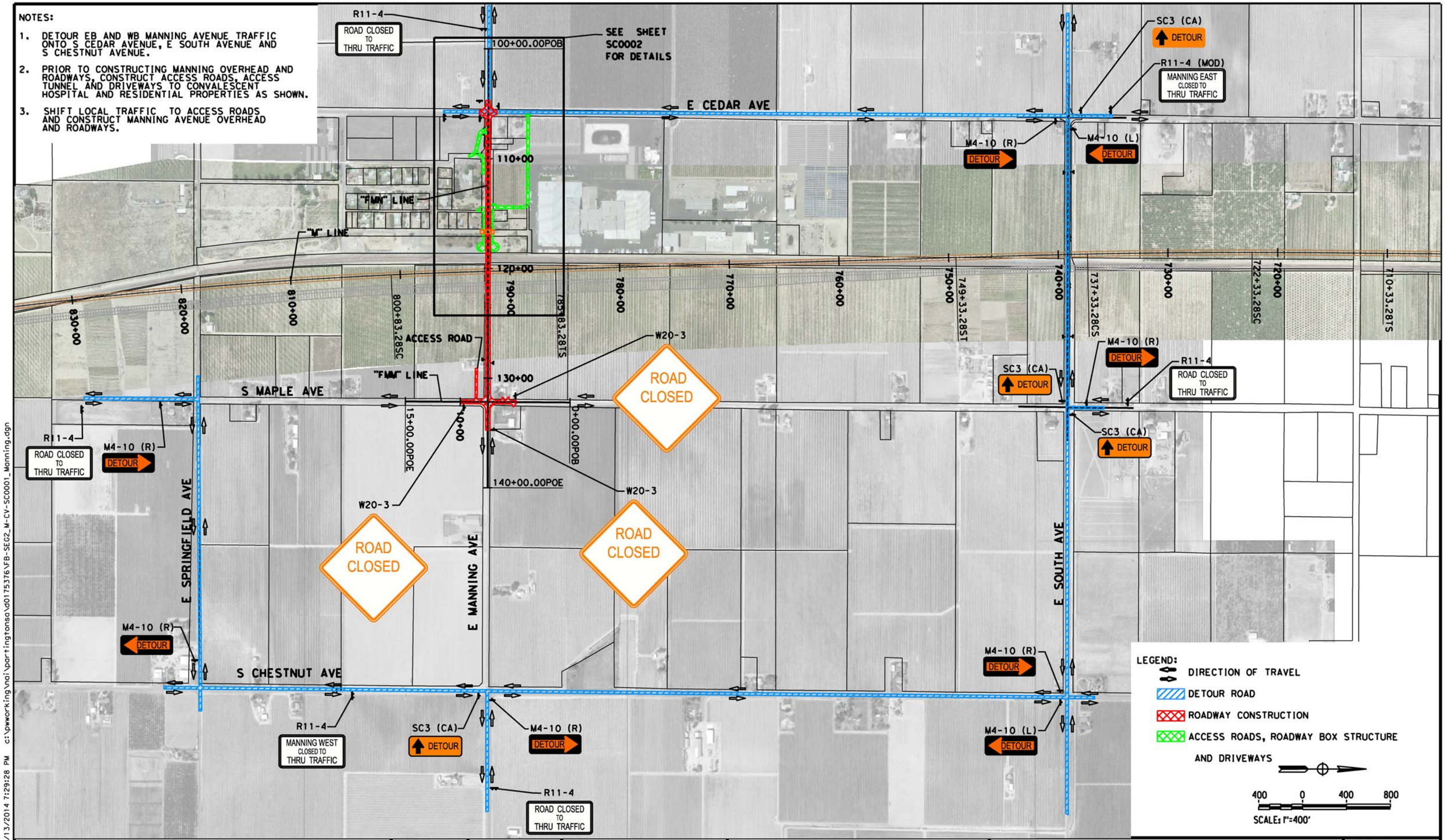
NOTES:

1. DETOUR EB AND WB MANNING AVENUE TRAFFIC ONTO S CEDAR AVENUE, E SOUTH AVENUE AND S CHESTNUT AVENUE.
2. PRIOR TO CONSTRUCTING MANNING OVERHEAD AND ROADWAYS, CONSTRUCT ACCESS ROADS, ACCESS TUNNEL AND DRIVEWAYS TO CONVALESCENT HOSPITAL AND RESIDENTIAL PROPERTIES AS SHOWN.
3. SHIFT LOCAL TRAFFIC TO ACCESS ROADS AND CONSTRUCT MANNING AVENUE OVERHEAD AND ROADWAYS.



DISCLAIMER:
THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE HSR AND ROADWAY DESIGN ENHANCEMENTS. DRAINAGE, UTILITIES, AND IRRIGATION CANALS ARE NOT SHOWN. THE HSR PROFILE IS BASED ON DRAINAGE AND WILDLIFE CROSSINGS IN THE RFP DESIGN AND THE DFS PROPOSED ATC DESIGNS AS SUBMITTED AND ACCEPTED BY THE AUTHORITY. THIS DOCUMENT AND ASSOCIATED ENGINEERING DETAILS REFLECT PRELIMINARY SCHEMATIC-LEVEL DESIGN ONLY. THIS DOCUMENT SHALL NOT BE USED FOR CONSTRUCTION.

DESIGNED BY	B. Kidd
DRAWN BY	S. Partington
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
DETOUR LAYOUT
E MANNING AVENUE

CONTRACT NO.	HST 06-0003
DRAWING NO.	SC0001
SCALE	AS SHOWN
SHEET NO.	X OF X

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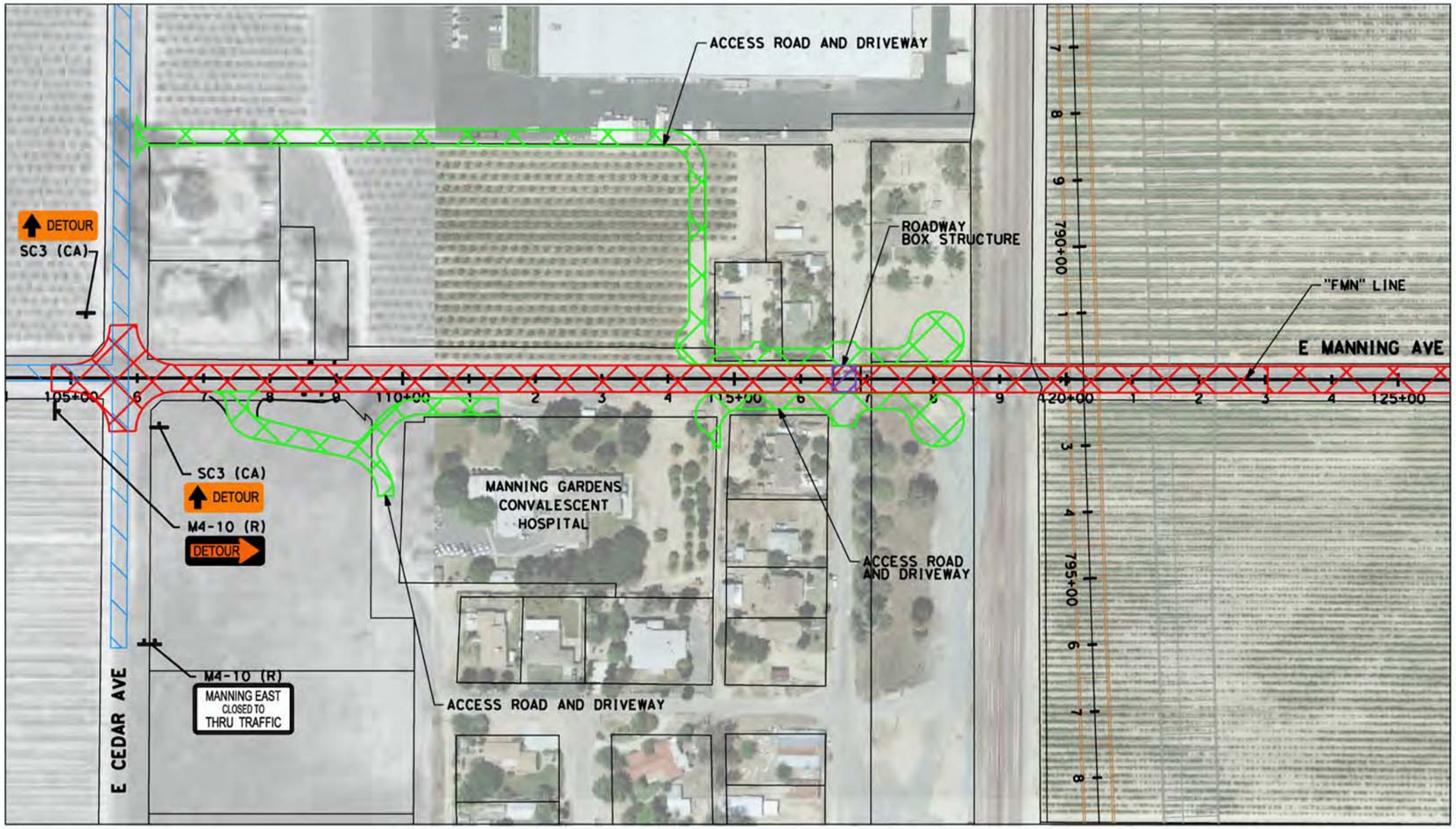
NOTES:

1. DETOUR EB AND WB MANNING AVENUE TRAFFIC ONTO S CEDAR AVENUE, E SOUTH AVENUE AND S CHESTNUT AVENUE.
2. PRIOR TO CONSTRUCTING MANNING OVERHEAD AND ROADWAYS, CONSTRUCT ACCESS ROADS, ACCESS TUNNEL AND DRIVEWAYS TO CONVALESCENT HOSPITAL AND RESIDENTIAL PROPERTIES AS SHOWN.
3. SHIFT LOCAL TRAFFIC TO ACCESS ROADS AND CONSTRUCT MANNING AVENUE OVERHEAD AND ROADWAYS.



LEGEND:

- DIRECTION OF TRAVEL
- DETOUR ROAD
- ROADWAY CONSTRUCTION
- ACCESS ROADS AND DRIVEWAYS
- ROADWAY BOX STRUCTURE

100 0 100 200

SCALE: 1"=100'

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DESIGNED BY	B. Kidd
DRAWN BY	S. Partington
CHECKED BY	E. Karam
IN CHARGE	R. Trevett
DATE	

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

DFS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
MONMOUTH SUBSECTION
ALIGNMENT M
STAGE CONSTRUCTION
E MANNING AVENUE

CONTRACT NO.	HST 06-0003
DRAWING NO.	SC0002
SCALE	AS SHOWN
SHEET NO.	X OF X

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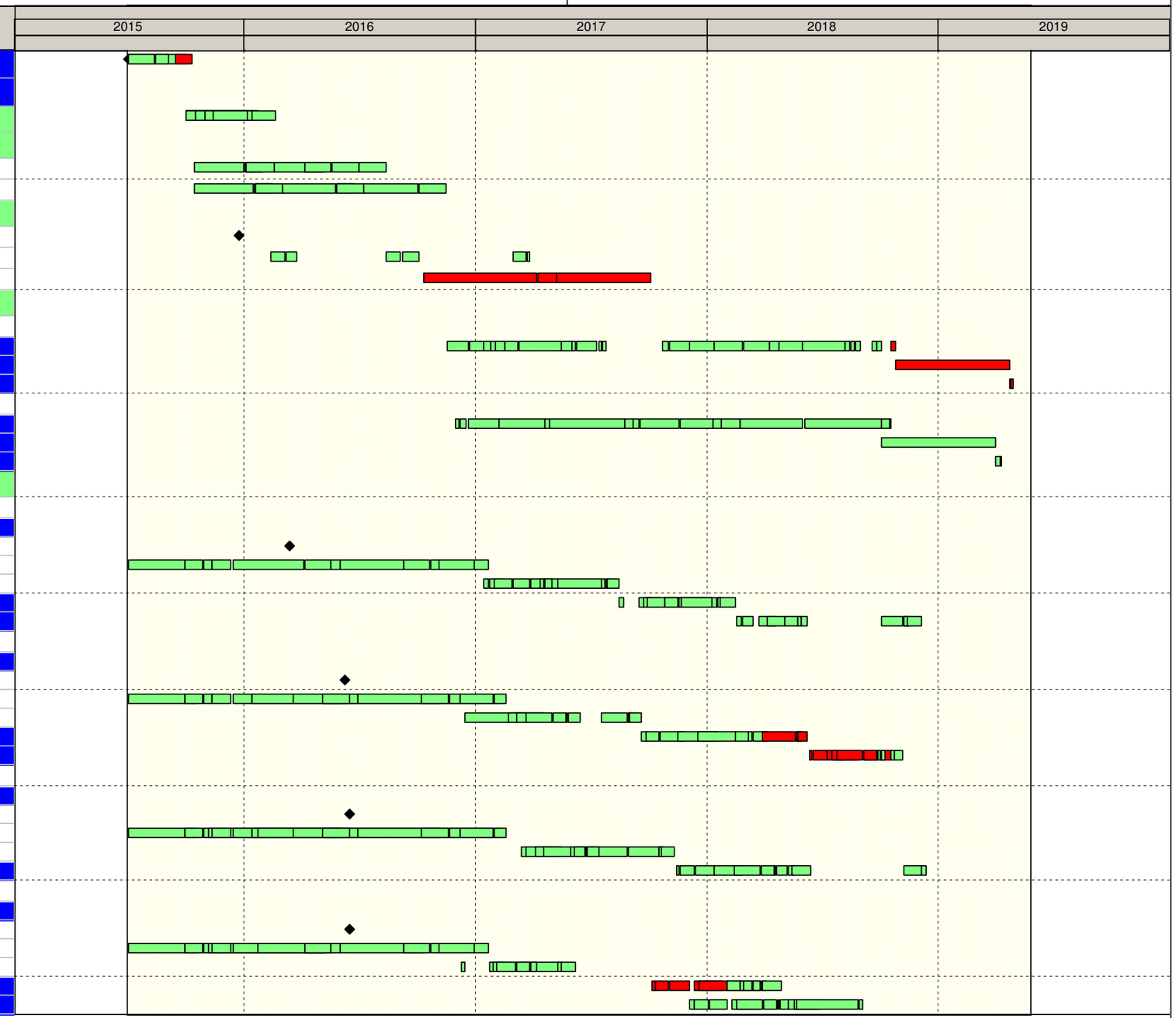
Level 2 Schedule

	OD	Start	Finish
Project	73	07/01/15	10/09/15
Management Segment 1	999	07/01/15	04/29/19
Geotech Testing & Lab	95	10/01/15	02/19/16
Design (to Start work)	285	10/13/15	11/14/16
BNSF(Utitlies & Earthwork)	218	10/13/15	08/11/16
Track Embankment	285	10/13/15	11/14/16
BNSF Sidings	465	12/24/15	10/04/17
ROW Available	0	12/24/15	12/24/15
Contractor Utilities and Earthwork	281	02/12/16	03/27/17
BNSF	360	10/10/16	10/04/17
Earthwork	638	11/17/16	04/29/19
Group 1	638	11/17/16	04/29/19
Embankments	487	11/17/16	10/25/18
Surcharge	180	10/26/18	04/23/19
Subgrade & AC	4	04/24/19	04/29/19
Group 2	617	11/29/16	04/10/19
Embankments	475	11/29/16	10/17/18
Surcharge	180	10/04/18	04/01/19
Subgrade & AC	7	04/02/19	04/10/19
Grade Separation Structures	901	07/01/15	12/12/18
Group 1	896	07/01/15	12/05/18
Elkhorn	554	07/01/15	08/14/17
ROW	0	03/13/16	03/13/16
Design	390	07/01/15	01/20/17
Structure	152	01/13/17	08/14/17
S. Fowler	133	08/15/17	02/15/18
E. Davis	209	02/16/18	12/05/18
Group 2	875	07/01/15	11/06/18
E. Adams	580	07/01/15	09/19/17
ROW	0	06/08/16	06/08/16
Design	428	07/01/15	02/17/17
Structure	199	12/15/16	09/19/17
E. Lincoln	188	09/20/17	06/08/18
E. South	107	06/11/18	11/06/18
Group 3	901	07/01/15	12/12/18
E. Floral	617	07/01/15	11/09/17
ROW	0	06/16/16	06/16/16
Design	428	07/01/15	02/17/17
Structure	173	03/14/17	11/09/17
E. Manning	283	11/13/17	12/12/18
Group 4	830	07/01/15	09/04/18
E. Clovis	505	07/01/15	06/06/17
ROW	0	06/16/16	06/16/16
Design	408	07/01/15	01/20/17
Structure	129	12/08/16	06/06/17
Nebraska	147	10/05/17	04/27/18
E. Mountain	196	12/05/17	09/04/18

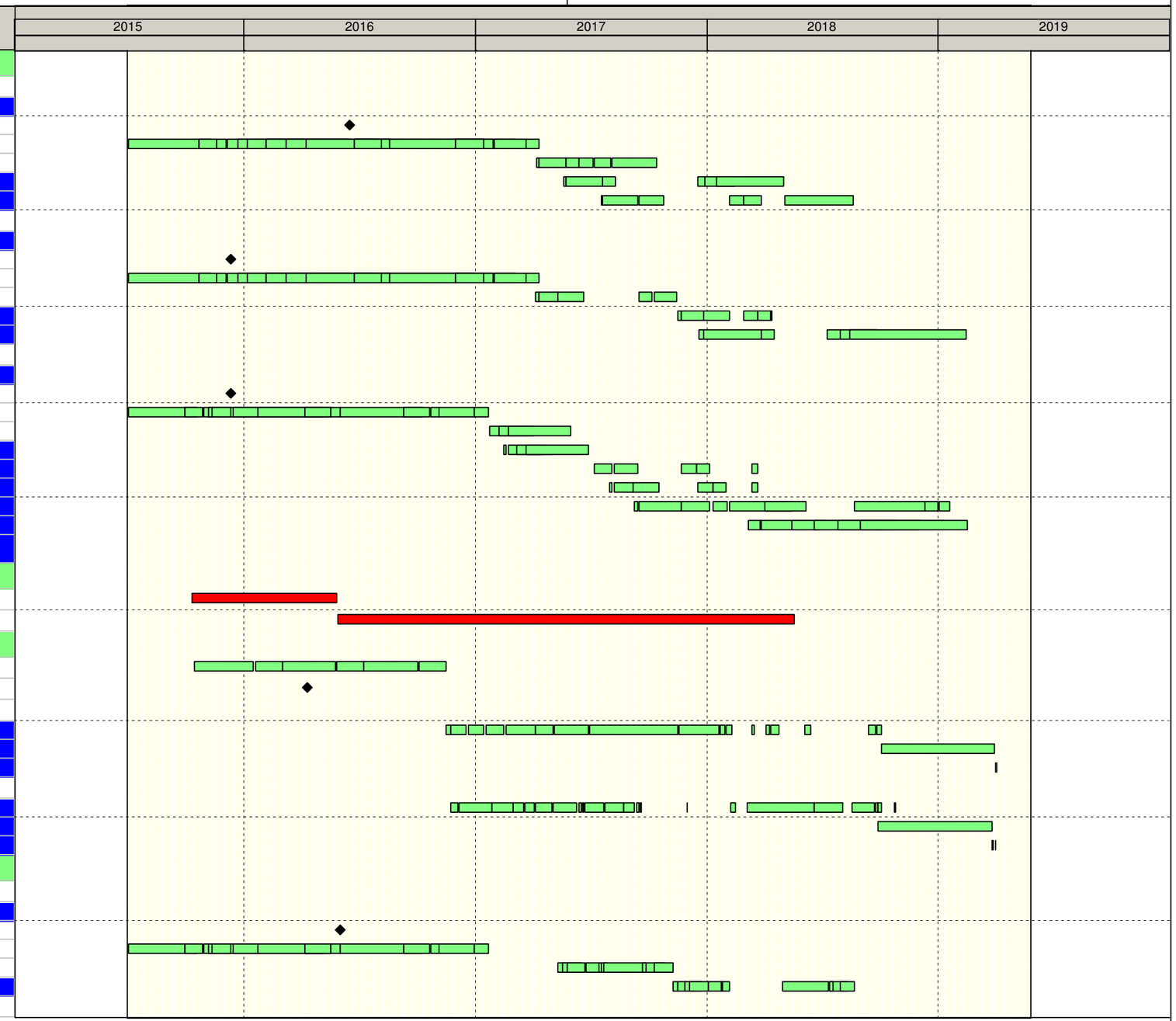


Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Level 2 Schedule

	OD	Start	Finish
HSR Structures	948	07/01/15	02/15/19
Group 1	819	07/01/15	08/20/18
H-1, Conejo	598	07/01/15	10/13/17
ROW	0	06/16/16	06/16/16
Design	464	07/01/15	04/10/17
Structure	133	04/07/17	10/13/17
H-3, BNSF	239	05/19/17	05/02/18
H-4, Peach	275	07/18/17	08/20/18
Group 2	947	07/01/15	02/14/19
H-11, 9th Ave.	620	07/01/15	11/14/17
ROW	0	12/11/15	12/11/15
Design	464	07/01/15	04/10/17
Structure	157	04/04/17	11/14/17
H-12, Cairo St.	108	11/15/17	04/13/18
H-13, Kings River	290	12/19/17	02/14/19
Group 3	948	07/01/15	02/15/19
H-14, Box Culvert	500	07/01/15	05/30/17
ROW	0	12/11/15	12/11/15
Design	408	07/01/15	01/20/17
Structure	90	01/23/17	05/30/17
H-9, Access Road	95	02/13/17	06/27/17
H-5, SR-43 Truss	186	07/06/17	03/22/18
H-7, Cole Slough	168	07/31/17	03/21/18
H-10, Dutch John Cut	356	09/08/17	01/18/19
H-2, BNSF	239	03/07/18	02/15/19
Management Segment 2	988	07/01/15	04/12/19
PG&E (115 KV Transmission)	952	10/10/15	05/18/18
Design	230	10/10/15	05/26/16
Move 115KV(Elder>Jackson)	722	05/27/16	05/18/18
Earthwork	907	10/13/15	04/03/19
Design	275	10/13/15	11/14/16
ROW	0	04/09/16	04/09/16
Group 1	622	11/15/16	04/03/19
Embankments	472	11/15/16	10/02/18
Surcharge	180	10/03/18	03/31/19
Subgrade & AC	3	04/01/19	04/03/19
Group 2	615	11/22/16	04/01/19
Embankments	485	11/22/16	10/26/18
Surcharge	180	09/28/18	03/26/19
Subgrade & AC	4	03/27/19	04/01/19
Grade Separation Structures	988	07/01/15	04/12/19
Group 1	821	07/01/15	08/22/18
Dover	615	07/01/15	11/07/17
ROW Available	0	06/01/16	06/01/16
Design	408	07/01/15	01/20/17
Structure	129	05/11/17	11/07/17
Excelsior	206	11/08/17	08/22/18
Group 2	965	07/01/15	03/12/19

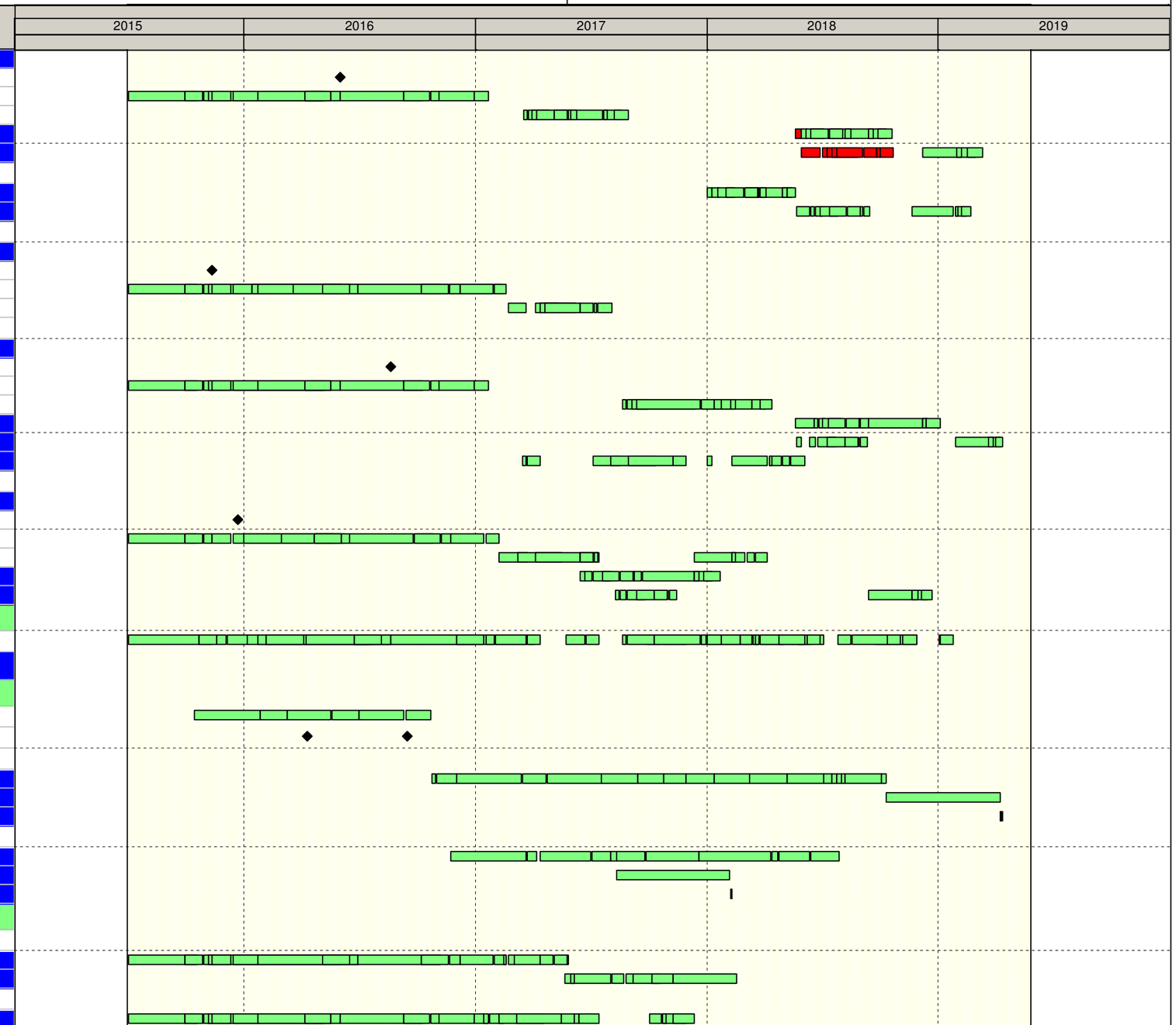


Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Level 2 Schedule

	OD	Start	Finish
Elder	565	07/01/15	08/29/17
ROW Available	0	06/01/16	06/01/16
Design	408	07/01/15	01/20/17
Structure	118	03/17/17	08/29/17
Flint	110	05/21/18	10/19/18
Fargo	205	05/30/18	03/12/19
Group 3	298	01/02/18	02/21/19
Idaho Ave.	100	01/02/18	05/21/18
Jackson	198	05/22/18	02/21/19
Group 4	548	07/01/15	08/04/17
SR43 Over SJVRR	548	07/01/15	08/04/17
ROW Available	0	11/11/15	11/11/15
Design	428	07/01/15	02/17/17
Structure	119	02/21/17	08/04/17
Group 5	988	07/01/15	04/12/19
Houston	728	07/01/15	04/13/18
ROW Available	0	08/20/16	08/20/16
Design	408	07/01/15	01/20/17
Structure	170	08/21/17	04/13/18
Hanford	164	05/21/18	01/03/19
Iona Ave.	234	05/22/18	04/12/19
SR-43 (K-7)	319	03/15/17	06/04/18
Group 6	908	07/01/15	12/21/18
SR-43 (K-8)	723	07/01/15	04/06/18
ROW Available	0	12/21/15	12/21/15
Design	419	07/01/15	02/06/17
Structure	304	02/07/17	04/06/18
Kansas	158	06/15/17	01/22/18
Kent	358	08/09/17	12/21/18
HSR Structures	933	07/01/15	01/25/19
Group 1	933	07/01/15	01/25/19
Management Segment 3	988	07/01/15	04/12/19
Earthwork	914	10/13/15	04/12/19
Design	260	10/13/15	10/21/16
ROW	159	04/09/16	09/15/16
Group 1	645	10/24/16	04/12/19
Embankments	493	10/24/16	10/10/18
Surcharge	180	10/11/18	04/08/19
Subgrade & AC	4	04/09/19	04/12/19
Group 2	439	11/22/16	07/27/18
Embankments	421	11/22/16	07/27/18
Surcharge	180	08/11/17	02/06/18
Subgrade & AC	3	02/07/18	02/09/18
Structures	962	07/01/15	03/07/19
Group 1	688	07/01/15	02/16/18
Poplar	498	07/01/15	05/26/17
SR43 (C2-3002+00)	195	05/22/17	02/16/18
Group 2	737	07/01/15	04/26/18
Nevada Ave.	640	07/01/15	12/12/17

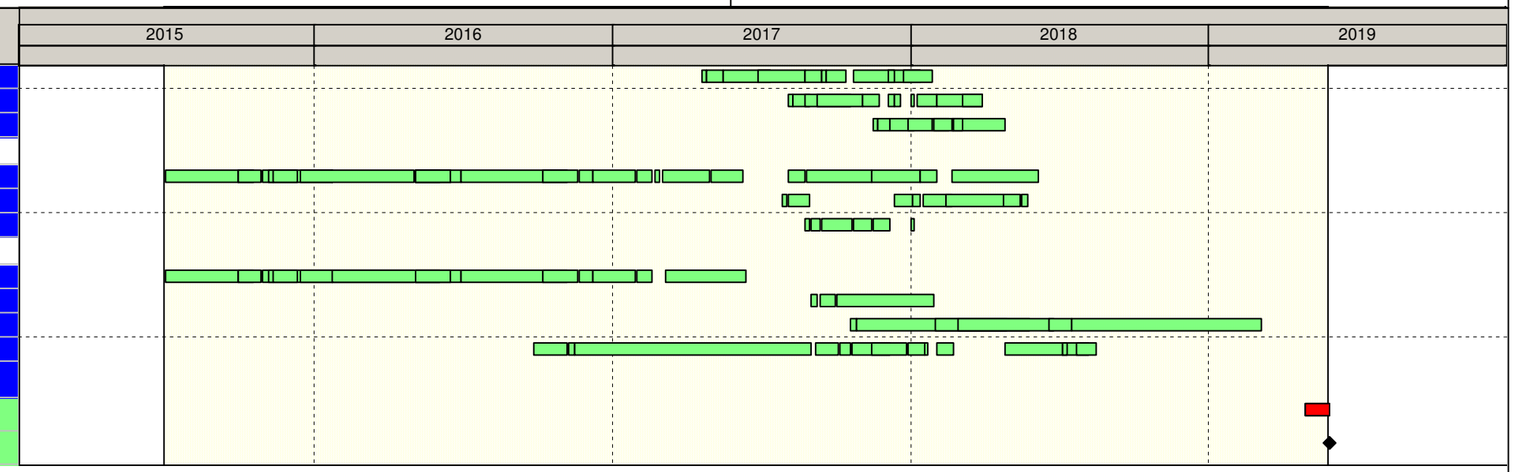


Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Level 2 Schedule

.	OD	Start	Finish
Hesse	203	04/19/17	01/26/18
Avenue 88	172	08/03/17	03/30/18
J22	117	11/15/17	04/26/18
Group 3	765	07/01/15	06/05/18
Stoil Spur	765	07/01/15	06/05/18
Tule	215	07/27/17	05/23/18
Stoil Truss	97	08/24/17	01/05/18
Group 4	962	07/01/15	03/07/19
Deer Creek	510	07/01/15	06/13/17
SR-137 (Whitley)	100	09/01/17	01/29/18
BNSF Staddle Bent	361	10/19/17	03/07/19
Corcoran	494	09/26/16	08/16/18
Completion	21	04/30/19	05/28/19
Punchlist	20	04/30/19	05/28/19
Complete	0	05/28/19	05/28/19

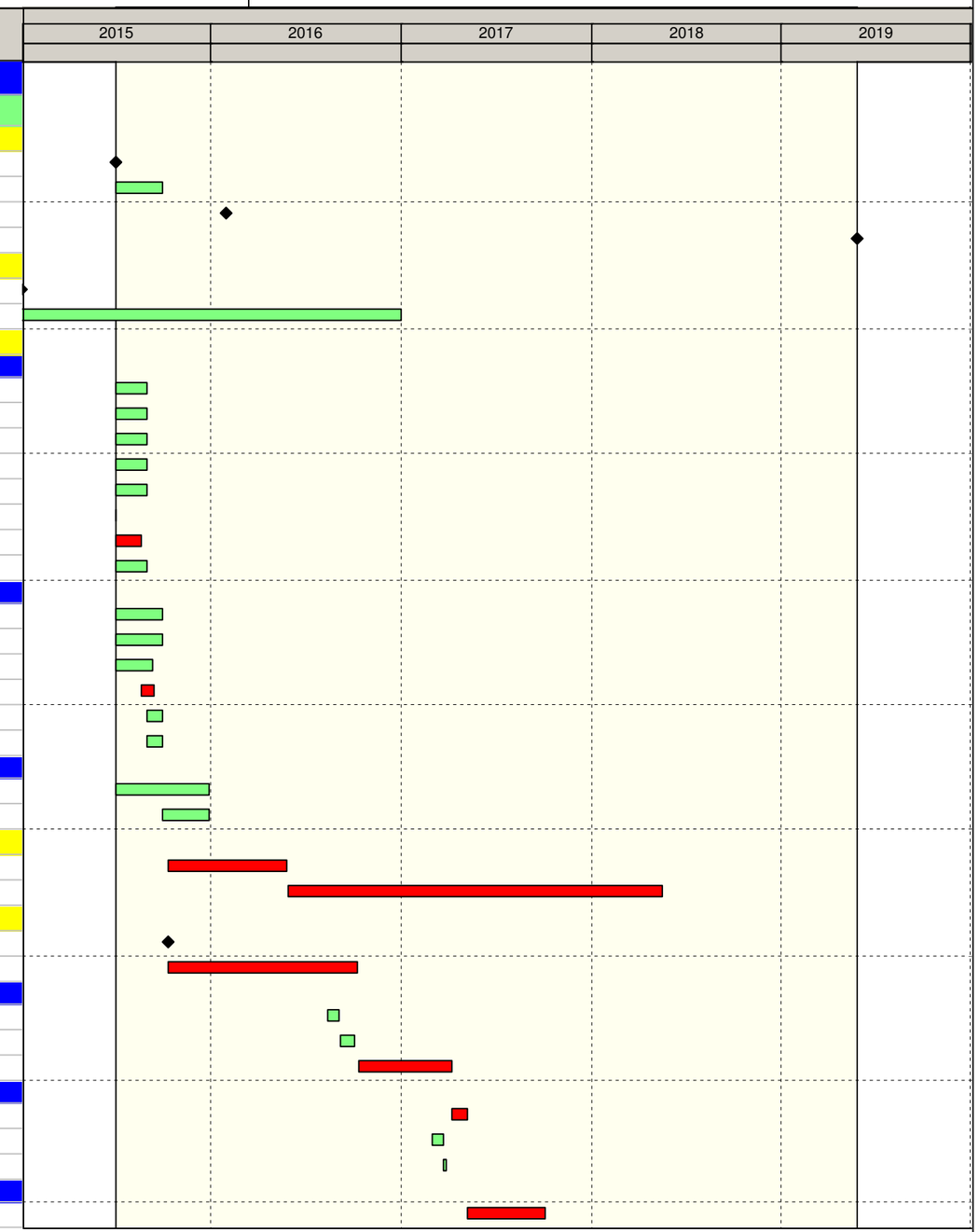


Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
CHSR Construction Package CP2-3 PR18		1283	06/27/14	05/28/19
Project		1283	06/27/14	05/28/19
NTP		1428	07/01/15	05/28/19
PWN-NTP	NTP - CP2-3	0	07/01/15*	
PWN-ROE	Authority Process Documents for Right of Entry	92	07/01/15	09/30/15
PWN-STARTC	Start construction	0	01/30/16	
PWN-COMP	Project Complete	0		05/28/19
Baker Commodities		522	12/31/14	12/30/16
BAKER100	Baker Commodities/HSR Authority Negotiations Complete	0		12/31/14*
BAKER110	Baker Commodities New Plant Permitting and Construction/Existing Plant Demo...	730	01/01/15	12/30/16
PRE-CONSTRUCTION		128	07/01/15	12/27/15
Within 60 days from NTP		43	07/01/15	08/29/15
PREC60-0310	Site Specific Health & Safety Plan (4.15.1)	60	07/01/15	08/29/15
PREC60-0320	Site Specific Security Plan (4.15.1)	60	07/01/15	08/29/15
PREC60-0330	Contractor RAM Program Plan - Draft (5.17.1)	60	07/01/15	08/29/15
PREC60-0340	Interface Management Plan (Draft) (3.4)	60	07/01/15	08/29/15
PREC60-0350	Baseline Schedule	60	07/01/15	08/29/15
PREC60-0400	Partnering Workshop	2	07/01/15	07/02/15
PREC60-0335	QA/QC Verification and Validation Plan-Draft (2.1)	50	07/01/15	08/19/15
PREC60-0300	Safety and Security Certification Plan (4.5)	60	07/01/15	08/29/15
Within 90 days from NTP		64	07/01/15	09/28/15
PREC90-0350	Sustainability Management Plan	90	07/01/15	09/28/15
PREC90-0370	Environmental Management Plan (Draft)	90	07/01/15	09/28/15
PREC90-0400	Geotechnical Investigation Plan - P/A and R/A	50	07/01/15	09/10/15
PREC90-0335	QA/QC Verification and Validation Plan-Final (2.1)	25	08/20/15	09/13/15
PREC90-0360	Interface Management Plan (Final)(3.4)	30	08/30/15	09/28/15
PREC90-0380	Contractor RAM Program Plan - Final (5.17.1)	30	08/30/15	09/28/15
Within 180 days from NTP		180	07/01/15	12/27/15
PREC180-0410	Site & Utility Investigation (50/50 Risk after 180 cds from NTP)	180	07/01/15	12/27/15
PREC180-0380	Environmental Management Plan (Final)	90	09/29/15	12/27/15
PG & E Design for Gas & Electrical Relocations		952	10/10/15	05/18/18
DST-1030PGE1	PG&E 115 KV Transmission Design	230	10/10/15	05/26/16
DST-1030PGE10	PG&E Permits, Procure & Relocate 115KV Line between Elder and Jackson	722	05/27/16	05/18/18
BNSF Work		518	10/10/15	10/04/17
BNSF-100	BNSF, Notify for Siding/Alignment changes	0	10/10/15	
BNSF-110	BNSF, Design Siding/alignment Work	366	10/10/15	10/09/16
BNSF Work at M-709+00 > M-872+00		171	08/12/16	04/07/17
BNSF-200	M-709+00 > M-872+00, BNSF, Contractor move siding utilities	16	08/12/16	09/02/16
BNSF-210	M-709+00 > M-872+00, BNSF. Contractor siding cut/fills	20	09/06/16	10/03/16
BNSF-220	M-709+00 > M-872+00, BNSF, Siding/Alignment work	180	10/10/16	04/07/17
BNSF Work at H-1135+00+00 > H-1157+00		48	03/01/17	05/07/17
BNSF-420	H-1135+00+00 > H-1157+00, BNSF, Siding/Alignment work	30	04/08/17	05/07/17
BNSF-400	H-1135+00+00 > H-1157+00, BNSF, Contractor move siding utilities	15	03/01/17*	03/21/17
BNSF-410	H-1135+00+00 > H-1157+00,BNSF, Contractor siding cut fills	4	03/22/17	03/27/17
BNSF Work at M-935+00 > M-1062+00		429	02/12/16	10/04/17
BNSF-320	M-935+00 > M-1062+00, BNSF, Siding/Alignment work	150	05/08/17	10/04/17



Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
BNSF-300	M-935+00 > M-1062+00, BNSF, Contractor move siding utilities	15	02/12/16	03/04/16
BNSF-310	M-935+00 > M-1062+00, BNSF, Contractor siding cut fills	14	03/07/16	03/24/16
DESIGN		71	07/01/15	10/09/15
Track and Roadway Design (30% Design and Geometric Approval)		71	07/01/15	10/09/15
DSR-1010S	Design Baseline Report, P/S	30	07/01/15	08/12/15
DSR-1010S10	Design Baseline Report, IDR/CR/ITR	15	08/13/15	09/02/15
DSR-1010R	Design Baseline Report, Authority R/A	20	09/14/15	10/09/15
DST-1010A	CP-2&3 Track Geometric Approval	0		10/09/15
Right of Way Availabilty		0	06/27/14	06/27/14
ROWGROD	ROW-ROD Date (June 27, 2014)	0	06/27/14*	
Enigineering/Procurement		1020	07/01/15	05/28/19
General Submittals		1020	07/01/15	05/28/19
Environmental		1020	07/01/15	05/28/19
Submittals		145	07/01/15	01/29/16
EPEN-0028S	Prepare & Submit Environmental Management Plan, Draft	40	07/01/15	08/26/15
EPEN-0010S	Prep Long-term environmental Compliance Plan	30	07/01/15	08/12/15
EPEN-0012	Designate D-B JV Biologist	10	07/01/15*	07/15/15
EPEN-0014	Prep Hazardous Materials Remediation Plan	30	07/01/15	08/12/15
EPEN-0016	Plan Approach to Habitat Mitigation and Monitoring Plan (HMMP).	45	07/01/15	09/02/15
EPEN-0018S	Prepare & Submit Biological Resources Management Plan (BRMP)	45	07/01/15	09/02/15
EPEN-0020S	Prepare & Submit Restoration and Revegetation Plan	60	07/01/15	09/24/15
EPEN-0024S	Prepare & Submit Worker Environmental Awareness Program	30	07/01/15	08/12/15
EPEN-0024R	Authority Review Worker Environmental Awareness Program	20	08/13/15	09/10/15
EPEN-0028R	Authority Review Environmental Management Plan, Draft	20	08/27/15	09/24/15
EPEN-0026S	Prepare & Submit Plan for Salvage, Relocation and/or Propagation of Species	45	08/27/15	10/30/15
EPEN-0018R	Authority Review Biological Resources Management Plan (BRMP)	20	09/03/15	10/01/15
EPEN-0030S	Prepare & Submit Environmental Management Plan, Final	30	09/25/15	11/06/15
EPEN-0020R	Authority Review Restoration and Revegetation Plan	20	09/25/15	10/23/15
EPEN-0022S	Prepare & Submit Weed Control Program	45	10/26/15	12/30/15
EPEN-0026R	Authority Review Plan for Salvage, Relocation and/or Propagation of Species	20	11/02/15	12/01/15
EPEN-0030R	Authority Review Environmental Management Plan, Final	20	11/09/15	12/08/15
EPEN-0022R	Authority Review Weed Control Program	20	12/31/15	01/29/16
Surveys		1020	07/01/15	05/28/19
FLDSRV-0022	Surveys for Special Status Reptile and Amphibian Species	1428	07/01/15	05/28/19
FLDSRV-0032	Surveys for Swainson's Hawks (March 1 to September 15).	579	07/01/15	05/28/19
FLDSRV-0045	Surveys for San Joaquin Kit Fox. (May 1 to Sep 30)	579	07/01/15	05/28/19
FLDSRV-0025	Surveys for Burrowing Owl (Feb 1 to Aug 31)	816	07/01/15	05/28/19
FLDSRV-0027	Surveys for Blunt-Nosed Leopard Lizard	1364	09/03/15	05/28/19
FLDSRV-0018	Surveys for Vernal Pool Fauna.	970	10/01/15	05/28/19
FLDSRV-0039	Surveys for Fresno Kangaroo Rat	363	01/31/16	05/28/19
FLDSRV-0016	Surveys for Special Status Plant Species and Special Status Plant Communities	641	03/01/16	05/28/19
Reporting		758	07/01/16	05/28/19
RPRT-0010	Annual Review of Environmental Management Plan Implimentation 1	15	07/01/16*	07/21/16
RPRT-0012	Annual Review of Environmental Management Plan Implimentation 2	15	07/03/17*	07/21/17
RPRT-0014	Annual Review of Environmental Management Plan Implimentation 3	15	07/02/18*	07/20/18
RPRT-0016	Post-Construction Compliance Reports (By Construction Phase)	40	04/02/19	05/28/19

- Remaining Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

California High-Speed Rail Program
Construction Package 2-3
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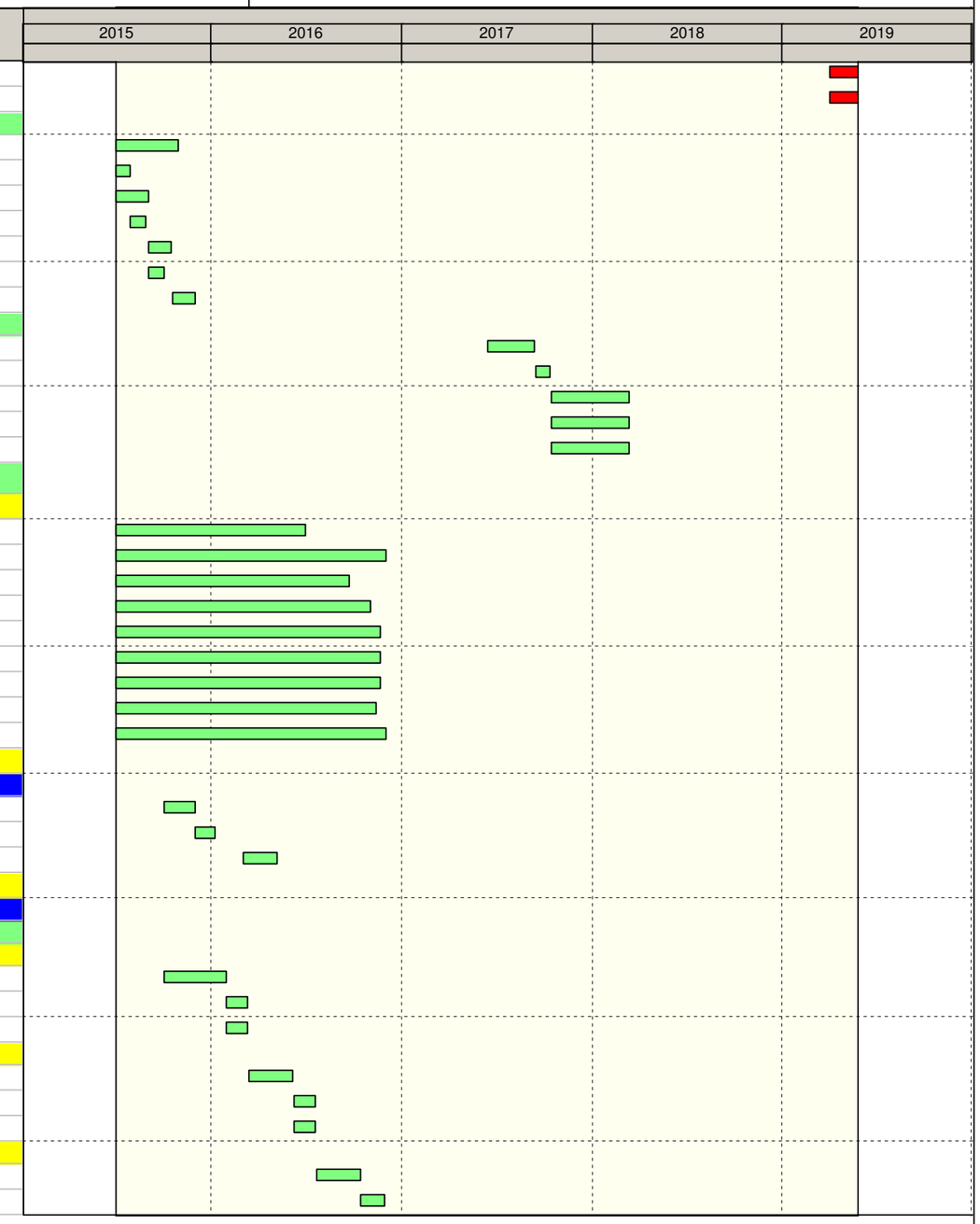
Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
RPRT-0018	Restore Temporary Riparian Impacts (Post-Construction)	40	04/03/19	05/28/19
RPRT-0020	Restore Temporary impacts on Jurisdictional Waters (Post Construction)	40	04/03/19	05/28/19
General Requirements		110	07/01/15	12/01/15
EP01-0070	Establish Contracts for primary Subcontractors and Suppliers	120	07/01/15	10/28/15
EP01-0090S	Submit/ SWPPP plan to Authority	20	07/01/15	07/29/15
EP01-0040S	Prepare & Submit Flood Plane Studies	45	07/01/15	09/02/15
EP01-0090R	Authority Review and Approve SWPPP plan	30	07/30/15	08/28/15
EP01-0050S	Prepare & Submit Local Hydraulics Studies	30	09/03/15	10/16/15
EP01-0040R	Authority Review Flood Plane Studies	30	09/03/15	10/02/15
EP01-0050R	Authority Review Local Hydraulics Studies	30	10/19/15	12/01/15
Metals		270	06/16/17	03/12/18
EP050-10S	Truss Bridge, P/S Shop Drawings	90	06/16/17	09/13/17
EP050-10R	Truss Bridge, R/A Shop Drawings	30	09/14/17	10/13/17
EP050-10FH5	Truss Bridge, FAB Bridge H-5 (Sr-43 Truss)	150	10/14/17	03/12/18
EP050-10FH7	Truss Bridge, FAB Bridge H-7 (Cole Slough Truss)	150	10/14/17	03/12/18
EP050-10FH10	Truss Bridge, Fab Bridge H-10 (Dutch John Cut Truss)	150	10/14/17	03/12/18
Management Segment 1 (587+00 to 1595+00)		1020	07/01/15	05/28/19
Permits		520	07/01/15	12/01/16
M1-USACE1000	Managment Segment 1Permits-USACE/CVFPB 408 Minor	366	07/01/15	06/30/16
M1-USACE1010	Managment Segment 1Permits-USACE 404	520	07/01/15	12/01/16
M1-CVFPB1000	Managment Segment 1Permits-CVFPB/ FEMA CLOMR	450	07/01/15	09/22/16
M1-IRRIG1000	Managment Segment 1Permits-Irrigation Districts	490	07/01/15	11/01/16
M1-UTIL1000	Managment Segment 1Permits-Utilities PG&E	510	07/01/15	11/21/16
M1-UTIL1010	Managment Segment 1Permits-Utilities SDG&E	510	07/01/15	11/21/16
M1-UTIL1020	Managment Segment 1Permits-Utilities SEMPRA	510	07/01/15	11/21/16
M1-SWRCB1000	Managment Segment 1Permits-SWRCB Section 402 - NPDES	500	07/01/15	11/11/16
M1-CDFW1000	Managment Segment 1Permits-CDFW Section 1602 Streambed Alteration Agre...	520	07/01/15	12/01/16
Geotech		150	10/01/15	05/06/16
GDR for Embankment		150	10/01/15	05/06/16
M1EMBGEO-100FI	Geotech, Segment 1, Embankment GDR, Field Investigations	40	10/01/15	11/30/15
M1EMBGEO-100DR	Geotech, Segment 1, Embankment GDR, P/S and R/A Draft Report	25	12/01/15	01/06/16
M1EMBGEO-100FR	Geotech, Segment 1, Embankment GDR, P/S and R/A Final Report	48	03/02/16	05/06/16
Design		572	07/01/15	09/07/17
Civil		310	10/01/15	12/07/16
Utilities		290	10/01/15	11/28/16
60% Design		110	10/01/15	03/11/16
M1UTD-060S	Utility Package, Segment 1, 60% Design, P/S	80	10/01/15	01/28/16
M1UTD-060R	Utility Package, Segment 1, 60% Design, Authority R/A	30	01/29/16	03/11/16
M1UTD-060AGN	Utility Package, Segment 1, 60 % Design, 3rd Party R/A	30	01/29/16	03/11/16
90% Design		90	03/14/16	07/19/16
M1UTD-090S	Utility Package, Segment 1, 90% Design, P/S	60	03/14/16	06/06/16
M1UTD-090R	Utility Package, Segment 1, 90% Design, Authority R/A	30	06/07/16	07/19/16
M1UTD-090AGN	Utility Package, Segment 1, 90 % Design, 3rd Party R/A	30	06/07/16	07/19/16
RFC		90	07/20/16	11/28/16
M1UTD-100S	Utility Package, Segment 1, RFC Design, P/S	60	07/20/16	10/12/16
M1UTD-100R	Utility Package, Segment 1, RFC Design, Authority R/A	30	10/13/16	11/28/16

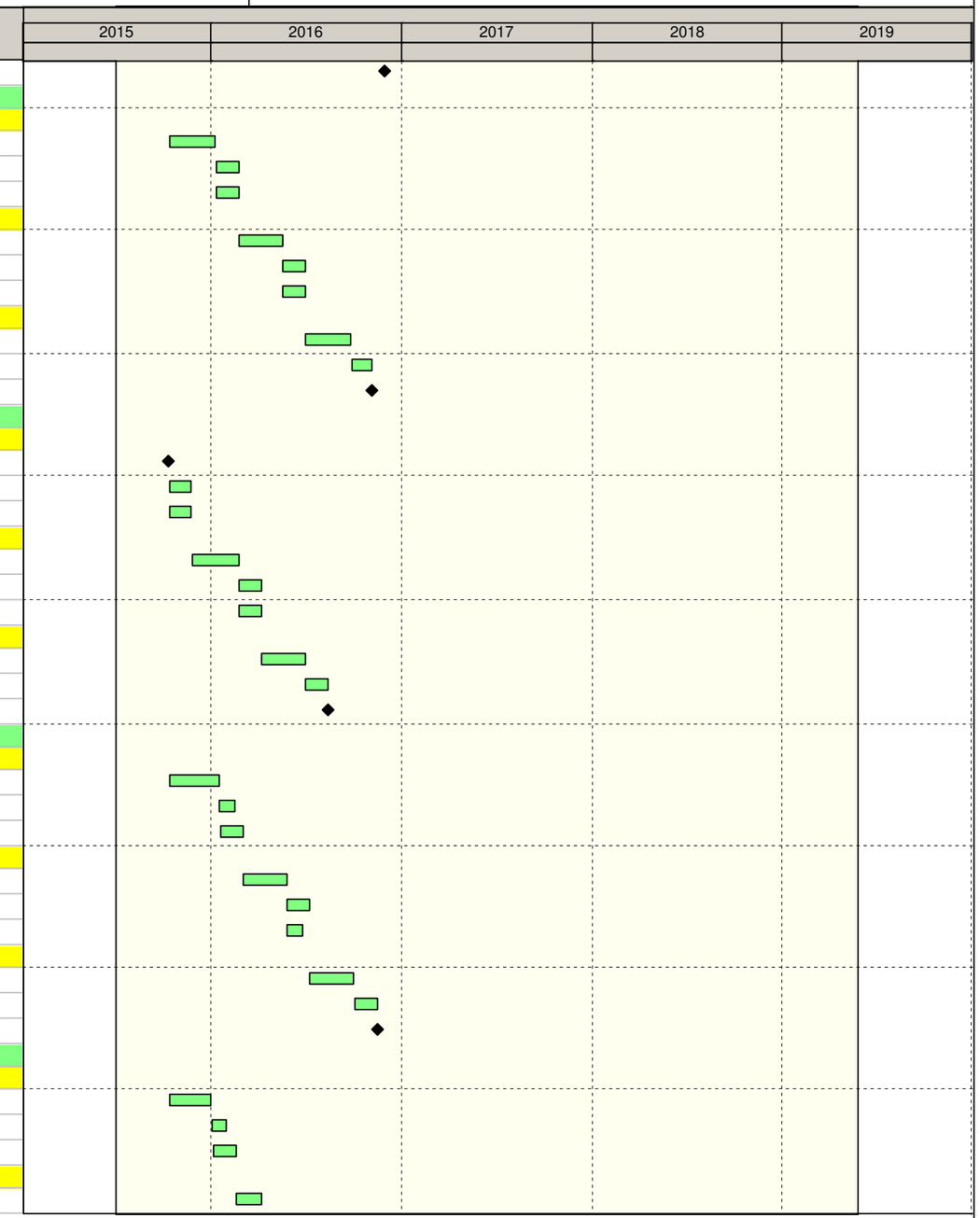


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1UTD-100A	Utility Package, Segment 1, RFC Design, Approved	0		11/28/16
Irrigation Canals		270	10/13/15	11/04/16
60% Design		90	10/13/15	02/23/16
M1IRD-060S	Irrigation Package, Segment 1, 60% Design, P/S	60	10/13/15	01/08/16
M1IRD-060R	Irrigation Package, Segment 1, 60% Design, Authority R/A	30	01/11/16	02/23/16
M1IRD-060AGN	Irrigation Package, Segment 1, 60% Design, 3rd Party R/A	30	01/11/16	02/23/16
90% Design		90	02/24/16	06/29/16
M1IRD-090S	Irrigation Package, Segment 1, 90% Design, P/S	60	02/24/16	05/17/16
M1IRD-090R	Irrigation Package, Segment 1, 90% Design, Authority R/A	30	05/18/16	06/29/16
M1IRD-090AGN	Irrigation Package, Segment 1, 90% Design, 3rd Party R/A	30	05/18/16	06/29/16
RFC		90	06/30/16	11/04/16
M1IRD-100S	Irrigation Package, Segment 1, RFC Design, P/S	60	06/30/16	09/23/16
M1IRD-100R	Irrigation Package, Segment 1, RFC Design, Authority R/A	30	09/26/16	11/04/16
M1IRD-100A	Irrigation Package, Segment 1, RFC Design, Approved	0		11/04/16
Caltrans Roadway		210	10/09/15	08/11/16
60% Design		30	10/09/15	11/23/15
M1CRWD-060S	CALTRANS Roadway Package, Segment 1, 60% Design, P/S	0		10/09/15
M1CRWD-060R	CALTRANS Roadway Package, Segment 1, 60% Design, Authority R/A	30	10/13/15	11/23/15
M1CRWD-060AGN	CALTRANS Roadway Package, Segment 1, 60 % Design, 3rd Party R/A	30	10/13/15	11/23/15
90% Design		90	11/24/15	04/05/16
M1CRWD-090S	CALTRANS Roadway Package, Segment 1, 90% Design, P/S	60	11/24/15	02/23/16
M1CRWD-090R	CALTRANS Roadway Package, Segment 1, 90% Design, Authority R/A	30	02/24/16	04/05/16
M1CRWD-090AGN	CALTRANS Roadway Package, Segment 1, 90 % Design, 3rd Party R/A	30	02/24/16	04/05/16
RFC		90	04/06/16	08/11/16
M1CRWD-100S	CALTRANS Roadway Package, Segment 1, RFC Design, P/S	60	04/06/16	06/29/16
M1CRWD-100R	CALTRANS Roadway Package, Segment 1, RFC Design, Authority R/A	30	06/30/16	08/11/16
M1CRWD-100A	CALTRANS Roadway Package, Segment 1, RFC Design, Approved	0		08/11/16
Rail Embankment		285	10/13/15	11/14/16
60% Design		101	10/13/15	03/01/16
M1RED-060S	Rail Embankment Package, Segment 1, 60% Design, P/S	65	10/13/15	01/15/16
M1RED-060AGN	Rail Embankment Package, Segment 1, 60% Design, 3rd Party R/A	30	01/16/16	02/14/16
M1RED-060R	Rail Embankment Package, Segment 1, 60% Design, Authority R/A	30	01/19/16	03/01/16
90% Design		92	03/02/16	07/07/16
M1RED-090S10	Rail Embankment Package, Segment 1, 90% Design, P/S	60	03/02/16	05/24/16
M1RED-090R	Rail Embankment Package, Segment 1, 90% Design, Authority R/A	30	05/25/16	07/07/16
M1RED-090AGN	Rail Embankment Package, Segment 1, 90% Design, 3rd Party R/A	30	05/25/16	06/23/16
RFC		90	07/08/16	11/14/16
M1RED-100S	Rail Embankment Package, Segment 1, RFC Design, P/S	60	07/08/16	09/30/16
M1RED-100R	Rail Embankment Package, Segment 1, RFC Design, Authority R/A	30	10/03/16	11/14/16
M1RED-100A	Rail Embankment Package, Segment 1, RFC Design, Approved	0		11/14/16
BNSF Uitlities & Earthwork		218	10/13/15	08/11/16
60% Design		91	10/13/15	02/16/16
M1BNSFD-060S	BNSF Utilities/Earthwork Package, Segment 1, 60% Design, P/S	55	10/13/15	12/31/15
M1BNSF-060AGN	BNSF Utilities/Earthwork Package, Segment 1, 60% Design, 3rd Party R/A	30	01/01/16	01/30/16
M1BNSFD-060R	BNSF Utilities/Earthwork Package, Segment 1, 60% Design, Authority R/A	30	01/04/16	02/16/16
90% Design		65	02/17/16	05/17/16
M1BNSFD-090S	BNSF Utilities/Earthwork Package, Segment 1, 90% Design, P/S	35	02/17/16	04/05/16



Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
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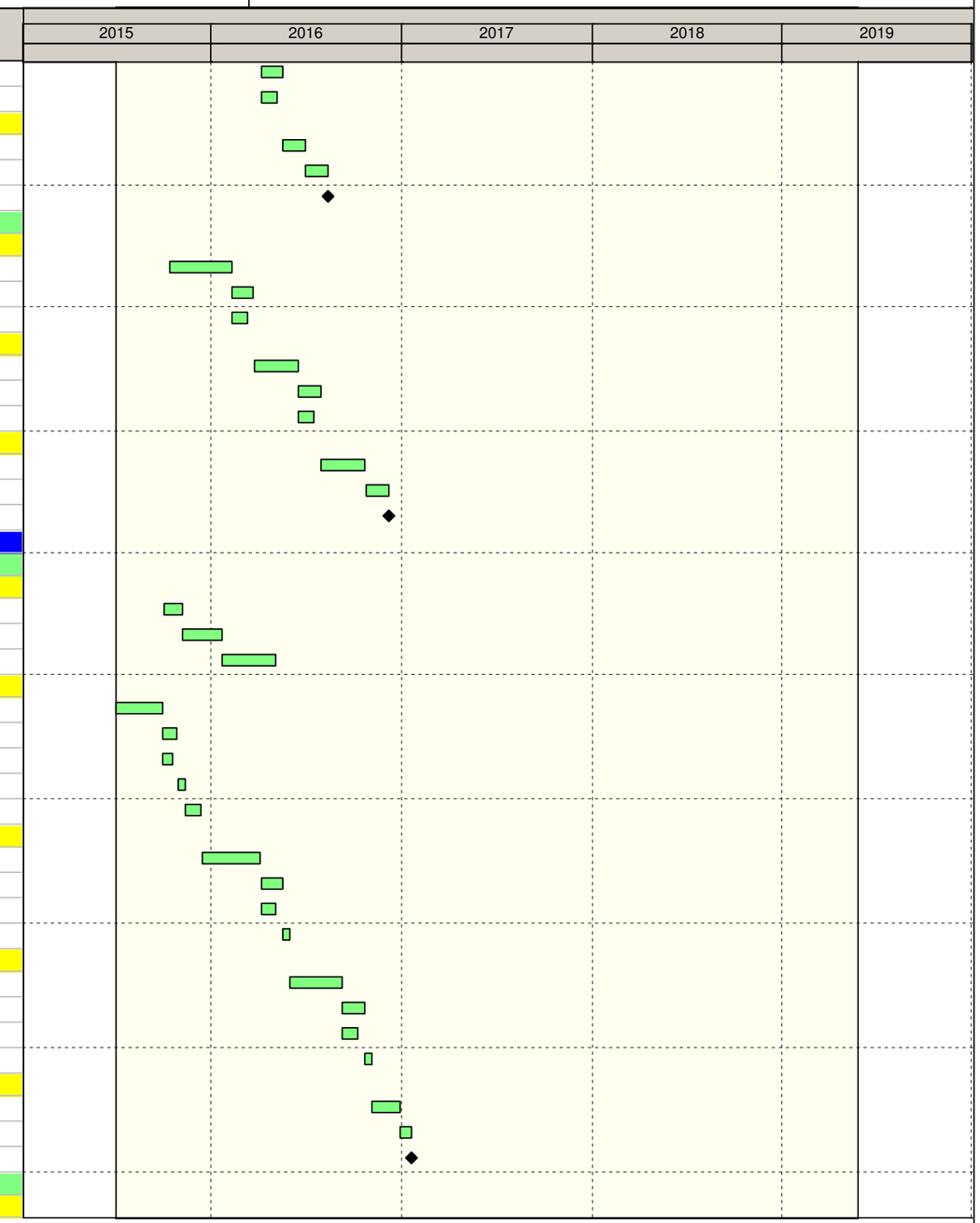
Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1BNSFD-090R	BNSF Utilities/Earthwork Package, Segment 1, 90% Design, Authority R/A	30	04/06/16	05/17/16
M1BNSF-090AGN	BNSF Utilities/Earthwork Package, Segment 1, 90% Design, 3rd Party R/A	30	04/06/16	05/05/16
RFC		60	05/18/16	08/11/16
M1BNSFD-100S	BNSF Utilities/Earthwork Package, Segment 1, RFC Design, P/S	30	05/18/16	06/29/16
M1BNSFD-100R	BNSF Utilities/Earthwork Package, Segment 1, RFC Design, Authority R/A	30	06/30/16	08/11/16
M1BNSFD-100A	BNSF Utilities/Earthwork Package, Segment 1, RFC Design, Approved	0		08/11/16
Local Roadway		302	10/13/15	12/07/16
60% Design		116	10/13/15	03/22/16
M1LRWD-060S	Local Roadway Package, Segment 1, 60% Design, P/S	80	10/13/15	02/08/16
M1LRWD-060R	Local Roadway Package, Segment 1, 60% Design, Authority R/A	30	02/09/16	03/22/16
M1LRWD-060AGN	Local Roadway Package, Segment 1, 60 % Design, 3rd Party R/A	30	02/09/16	03/09/16
90% Design		92	03/23/16	07/28/16
M1LRWD-090S	Local Roadway Package, Segment 1, 90% Design, P/S	60	03/23/16	06/15/16
M1LRWD-090R	Local Roadway Package, Segment 1, 90% Design, Authority R/A	30	06/16/16	07/28/16
M1LRWD-090AGN	Local Roadway Package, Segment 1, 90 % Design, 3rd Party R/A	30	06/16/16	07/15/16
RFC		90	07/29/16	12/07/16
M1LRWD-100S	Local Roadway Package, Segment 1, RFC Design, P/S	60	07/29/16	10/21/16
M1LRWD-100R	Local Roadway Package, Segment 1, RFC Design, Authority R/A	30	10/24/16	12/07/16
M1LRWD-100A	Local Roadway Package, Segment 1, RFC Design, Approved	0		12/07/16
Structures		572	07/01/15	09/07/17
Walls/Embankment/Drainage Structures		408	07/01/15	01/20/17
Report for 60% Submittal		147	10/01/15	05/03/16
M1WALGEO-100FI	Walls, Segment 1, Geotech, Field Investigations	25	10/01/15	11/05/15
M1WALGEO-100DR	Walls, Segment 1, Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M1WALGEO-100FR	Walls, Segment 1, Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M1WALD-030S	Walls, Segment 1, Type Selection Report, P/S	62	07/01/15	09/28/15
M1WALD-030R	Walls, Segment 1, Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M1WALD-030AGN	Walls, Segment 1, Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M1WALD-030CMNTS	Walls, Segment 1, Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M1WALD-030TYPE	Walls, Segment 1, Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		122	12/14/15	05/31/16
M1WALD-060S	Walls, Segment 1, 60% Design, P/S	77	12/14/15	04/04/16
M1WALD-060R	Walls, Segment 1, 60% Design, Authority R/A	30	04/05/16	05/16/16
M1WALD-060AGN	Walls, Segment 1, 60% Design, 3rd Party R/A	30	04/05/16	05/04/16
M1WALD-060CMNT	Walls, Segment 1, 60% Design, Comments Resolution	10	05/17/16	05/31/16
90% Design		112	06/01/16	11/03/16
M1WALD-090S	Walls, Segment 1, 90% Design, P/S	70	06/01/16	09/08/16
M1WALD-090R	Walls, Segment 1, 90% Design, Authority R/A	30	09/09/16	10/20/16
M1WALD-090AGN	Walls, Segment 1, 90% Design, 3rd Party R/A	30	09/09/16	10/08/16
M1WALD-090CMNT	Walls, Segment 1, 90% Design, Comments Resolution	10	10/21/16	11/03/16
RFC		50	11/04/16	01/20/17
M1WALD-100S	Walls, Segment 1, RFC Design, P/S	35	11/04/16	12/28/16
M1WALD-100R	Walls, Segment 1, RFC Design, Authority R/A	15	12/29/16	01/20/17
M1WALD-100A	Walls, Segment 1, RFC Design, Approved	0		01/20/17
Special Structures		408	07/01/15	01/20/17
Geotech		147	10/01/15	05/03/16



Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
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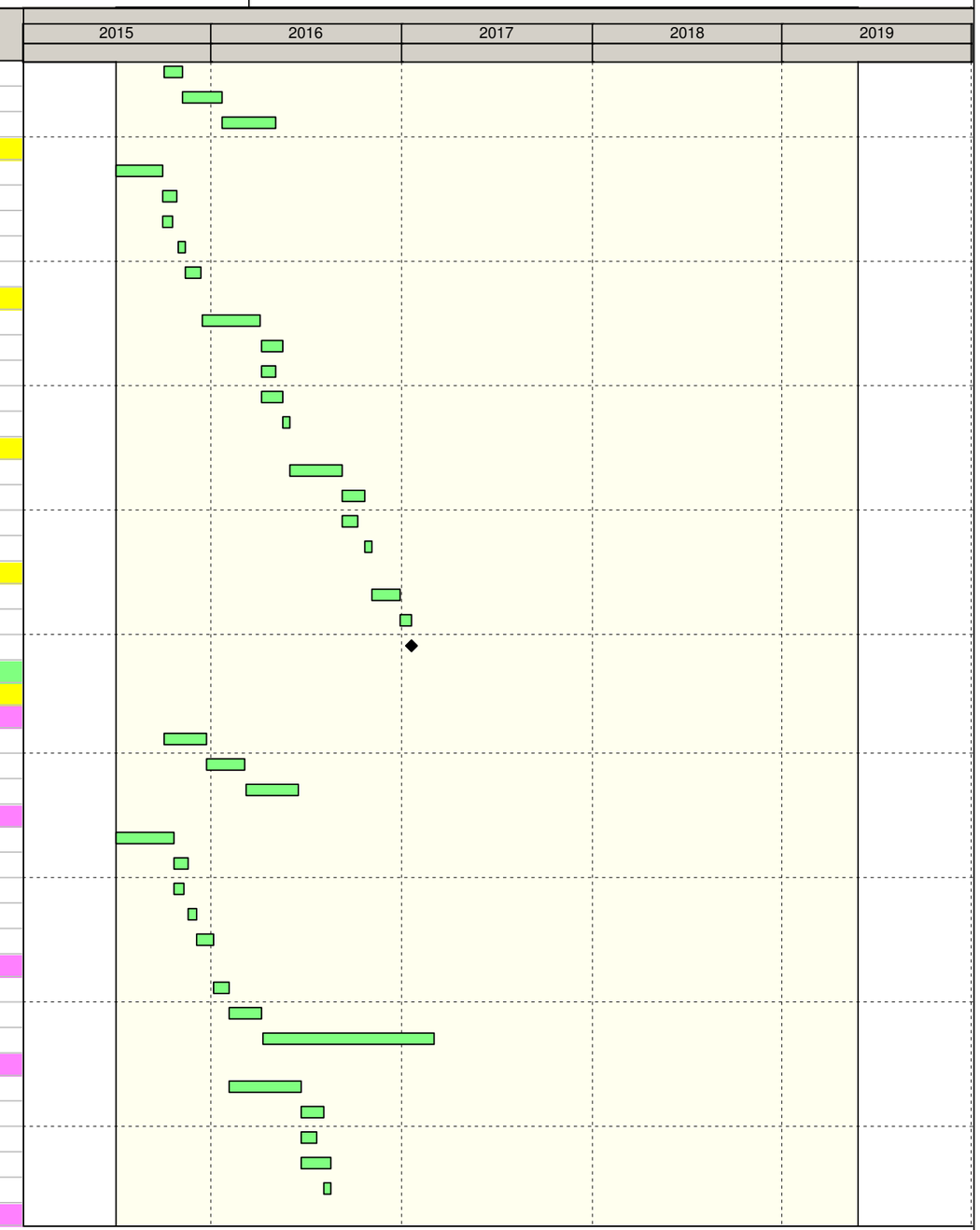
Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1SPCLD-GEO060F	Special Structures, Segment 1, Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M1SPCLD-GEO060D	Special Structures, Segment 1, Geotech, P/S DFR	50	11/06/15	01/21/16
M1SPCLD-GEO100F	Special Structures, Segment 1, Geotech, P/St FFR	72	01/22/16	05/03/16
Type Selection		**118**	**07/01/15**	**12/11/15**
M1SPCLD-030S	Special Structures, Segment 1, Type Selection Report, P/S	62	07/01/15	09/28/15
M1SPCLD-030R	Special Structures, Segment 1, Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M1SPCLD-030AGN	Special Structures, Segment 1, Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M1SPCLD-030CMNT	Special Structures, Segment 1, Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M1SPCLD-030TYPE	Special Structures, Segment 1, Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		**122**	**12/14/15**	**05/31/16**
M1SPCLD-060S	Special Structures, Segment 1, 60% Design, P/S	77	12/14/15	04/04/16
M1SPCLD-060R	Special Structures, Segment 1, 60% Design, Authority R/A	30	04/05/16	05/16/16
M1SPCLD-060AGN	Special Structures, Segment 1, 60% Design, 3rd Party R/A	30	04/05/16	05/04/16
M1SPCLD-060IND	Special Structures, Segment 1, 60% Design, Independent Check	30	04/05/16	05/16/16
M1SPCLD-060CMNT	Special Structures, Segment 1, 60% Design, Comments Resolution	10	05/17/16	05/31/16
90% Design		**112**	**06/01/16**	**11/03/16**
M1SPCLD-090S	Special Structures, Segment 1, 90% Design, P/S	70	06/01/16	09/08/16
M1SPCLD-090R	Special Structures, Segment 1, 90% Design, Authority R/A	30	09/09/16	10/20/16
M1SPCLD-090AGN	Special Structures, Segment 1, 90% Design, 3rd Party R/A	30	09/09/16	10/08/16
M1SPCLD-090CMNT	Special Structures, Segment 1, 90% Design, Comments Resolution	10	10/21/16	11/03/16
RFC		**50**	**11/04/16**	**01/20/17**
M1SPCLD-100S	Special Structures, Segment 1, RFC Design, P/S	35	11/04/16	12/28/16
M1SPCLD-100R	Special Structures, Segment 1, RFC Design, Authority R/A	15	12/29/16	01/20/17
M1SPCLD-100A	Special Structures, Segment 1, RFC Design, Approved	0		01/20/17
Concrete HST Bridges		**572**	**07/01/15**	**09/07/17**
Conejo H-1		**464**	**07/01/15**	**04/10/17**
Geotech		**177**	**10/01/15**	**06/15/16**
M1H03D-GEO060F	Bridge H-1(Conejo Box Girder), Geotech, Field Testing & Lab work	55	10/01/15	12/21/15
M1H03D-GEO060	Bridge H-1(Conejo Box Girder), Geotech, P/S and R/A DFR	50	12/22/15	03/04/16
M1H03D-GEO100	Bridge H-1(Conejo Box Girder), Geotech, P/S and R/A FFR	72	03/07/16	06/15/16
Type Selection		**135**	**07/01/15**	**01/05/16**
M1H03D-030S	Bridge H-1(Conejo Box Girder), Type Selection Report, P/S	77	07/01/15	10/20/15
M1H03D-030R	Bridge H-1(Conejo Box Girder), Type Selection Report, Authority R/A	20	10/21/15	11/17/15
M1H03D-030AGN	Bridge H-1(Conejo Box Girder), Type Selection Report, 3rd Party R/A	20	10/21/15	11/09/15
M1H03D-030CMN	Bridge H-1(Conejo Box Girder), Type Selection Report, Comments Resolution	10	11/18/15	12/03/15
M1H03D-030TYPE	Bridge H-1(Conejo Box Girder), Type Selection Report, Meeting and Approval	21	12/04/15	01/05/16
BNSF Design Package		**303**	**01/06/16**	**03/03/17**
M1H03D-030BNSI	Bridge H-1(Conejo Box Girder), BNSF Design Package, P/S	20	01/06/16	02/03/16
M1H03D-030BNSI	Bridge H-1(Conejo Box Girder), BNSF Design Package, BNSF R/A	45	02/04/16	04/07/16
M1H03D-030CPUC	Bridge H-1(Conejo Box Girder), BNSF Design Package, CPUC R/A	330	04/08/16	03/03/17
60% Design		**140**	**02/04/16**	**08/17/16**
M1H03D-060S	Bridge H-1(Conejo Box Girder), 60% Bridge Design, P/S	97	02/04/16	06/21/16
M1H03D-060R	Bridge H-1(Conejo Box Girder), 60% Bridge Design, Authority R/A	30	06/22/16	08/03/16
M1H03D-060AGN	Bridge H-1(Conejo Box Girder), 60% Bridge Design, 3rd Party R/A	30	06/22/16	07/21/16
M1H03D-060IND	Bridge H-1(Conejo Box Girder), 60% Bridge Design, Independent Check	40	06/22/16	08/17/16
M1H03D-060CMNT	Bridge H-1(Conejo Box Girder), 60% Bridge Design, Comments Resolution	10	08/04/16	08/17/16
90% Design		**110**	**08/18/16**	**01/27/17**



Remaining Level of Effort
Actual Work
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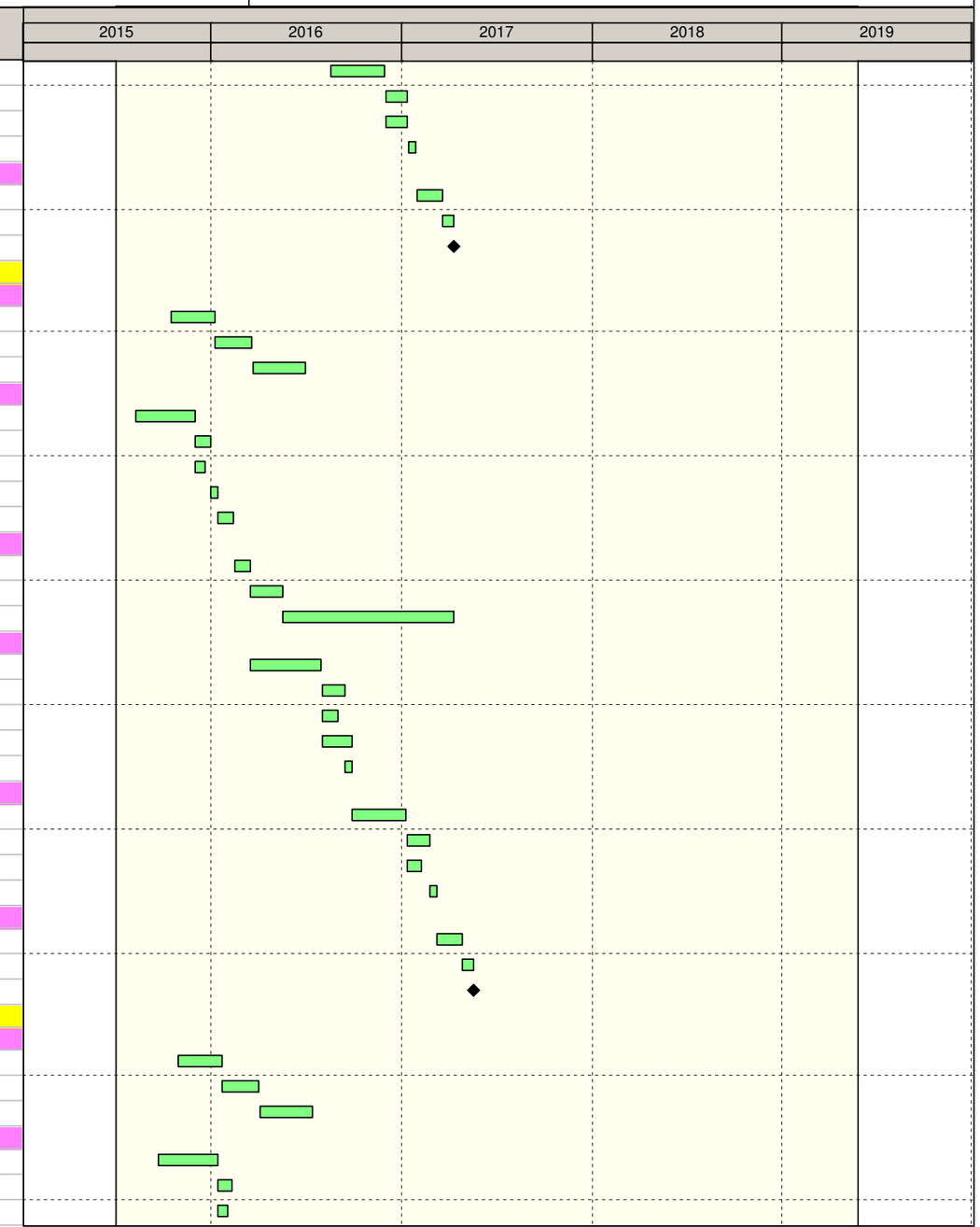
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1H03D-090S	Bridge H-1(Conejo Box Girder), 90% Bridge Design, P/S	70	08/18/16	11/29/16
M1H03D-090R	Bridge H-1(Conejo Box Girder), 90% Bridge Design, Authority R/A	30	11/30/16	01/12/17
M1H03D-090AGN	Bridge H-1(Conejo Box Girder), 90% Bridge Design, 3rd Party R/A	30	11/30/16	01/12/17
M1H03D-090CMNT	Bridge H-1(Conejo Box Girder), 90% Bridge Design, Comments Resolution	10	01/13/17	01/27/17
RFC		50	01/30/17	04/10/17
M1H03D-100S	Bridge H-1(Conejo Box Girder), RFC Bridge Design-P/S	35	01/30/17	03/20/17
M1H03D-100R	Bridge H-1(Conejo Box Girder), RFC Bridge Design, Authority R/A	15	03/21/17	04/10/17
M1H03D-100A	Bridge H-1(Conejo Box Girder), RFC Bridge Design, Approved	0		04/10/17
BNSF H-3		463	08/10/15	05/17/17
Geotech		177	10/16/15	06/29/16
M1H05D-GEO060F	Bridge H-3(BNSF Box Girder), Geotech, Field Testing & Lab work	55	10/16/15	01/06/16
M1H05D-GEO060	Bridge H-3(BNSF Box Girder), Geotech, P/S and R/A DFR	50	01/07/16	03/18/16
M1H05D-GEO100	Bridge H-3(BNSF Box Girder), Geotech, P/S and R/A FFR	72	03/21/16	06/29/16
Type Selection		135	08/10/15	02/12/16
M1H05D-030S	Bridge H-3(BNSF Box Girder), Type Selection Report, P/S	77	08/10/15	11/30/15
M1H05D-030R	Bridge H-3(BNSF Box Girder), Type Selection Report, Authority R/A	20	12/01/15	12/29/15
M1H05D-030AGN	Bridge H-3(BNSF Box Girder), Type Selection Report, 3rd Party R/A	20	12/01/15	12/20/15
M1H05D-030CMN	Bridge H-3(BNSF Box Girder), Type Selection Report, Comments Resolution	10	12/30/15	01/13/16
M1H05D-030TYPE	Bridge H-3(BNSF Box Girder), Type Selection Report, Meeting and Approval	21	01/14/16	02/12/16
BNSF Design Package		301	02/16/16	04/11/17
M1H05D-030BNSI	Bridge H-3(BNSF Box Girder), BNSF Design Package, P/S	20	02/16/16	03/14/16
M1H05D-030BNSI	Bridge H-3(BNSF Box Girder), BNSF Design Package, BNSF R/A	45	03/15/16	05/16/16
M1H05D-030CPUC	Bridge H-3(BNSF Box Girder), BNSF Design Package, CPUC R/A	330	05/17/16	04/11/17
60% Design		140	03/15/16	09/26/16
M1H05D-060S	Bridge H-3(BNSF Box Girder), 60% Bridge Design, P/S	97	03/15/16	07/29/16
M1H05D-060R	Bridge H-3(BNSF Box Girder), 60% Bridge Design, Authority R/A	30	08/01/16	09/12/16
M1H05D-060AGN	Bridge H-3(BNSF Box Girder), 60% Bridge Design, 3rd Party R/A	30	08/01/16	08/30/16
M1H05D-060IND	Bridge H-3(BNSF Box Girder), 60% Bridge Design, Independent Check	40	08/01/16	09/26/16
M1H05D-060CMNT	Bridge H-3(BNSF Box Girder), 60% Bridge Design, Comments Resolution	10	09/13/16	09/26/16
90% Design		117	09/27/16	03/08/17
M1H05D-090S	Bridge H-3(BNSF Box Girder), 90% Bridge Design, P/S	70	09/27/16	01/09/17
M1H05D-090R	Bridge H-3(BNSF Box Girder), 90% Bridge Design, Authority R/A	30	01/10/17	02/22/17
M1H05D-090AGN	Bridge H-3(BNSF Box Girder), 90% Bridge Design, 3rd Party R/A	30	01/10/17	02/08/17
M1H05D-090CMNT	Bridge H-3(BNSF Box Girder), 90% Bridge Design, Comments Resolution	10	02/23/17	03/08/17
RFC		50	03/09/17	05/17/17
M1H05D-100S	Bridge H-3(BNSF Box Girder), RFC Bridge Design-P/S	35	03/09/17	04/26/17
M1H05D-100R	Bridge H-3(BNSF Box Girder), RFC Bridge Design, Authority R/A	15	04/27/17	05/17/17
M1H05D-100A	Bridge H-3(BNSF Box Girder), RFC Bridge Design, Approved	0		05/17/17
S. Peach H-4		463	09/21/15	06/28/17
Geotech		177	10/30/15	07/14/16
M1H07D-GEO060F	Bridge H-4(S.Peach Ave, Box Girder), Geotech, Field Testing & Lab work	55	10/30/15	01/21/16
M1H07D-GEO060	Bridge H-4(S.Peach Ave, Box Girder), Geotech, P/S and R/A DFR	50	01/22/16	04/01/16
M1H07D-GEO100	Bridge H-4(S.Peach Ave, Box Girder), Geotech, P/S and R/A FFR	72	04/04/16	07/14/16
Type Selection		135	09/21/15	03/25/16
M1H07D-030S	Bridge H-4(S.Peach Ave, Box Girder), Type Selection Report, P/S	77	09/21/15	01/12/16
M1H07D-030R	Bridge H-4(S.Peach Ave, Box Girder), Type Selection Report, Authority R/A	20	01/13/16	02/10/16
M1H07D-030AGN	Bridge H-4(S.Peach Ave, Box Girder), Type Selection Report, 3rd Party R/A	20	01/13/16	02/01/16

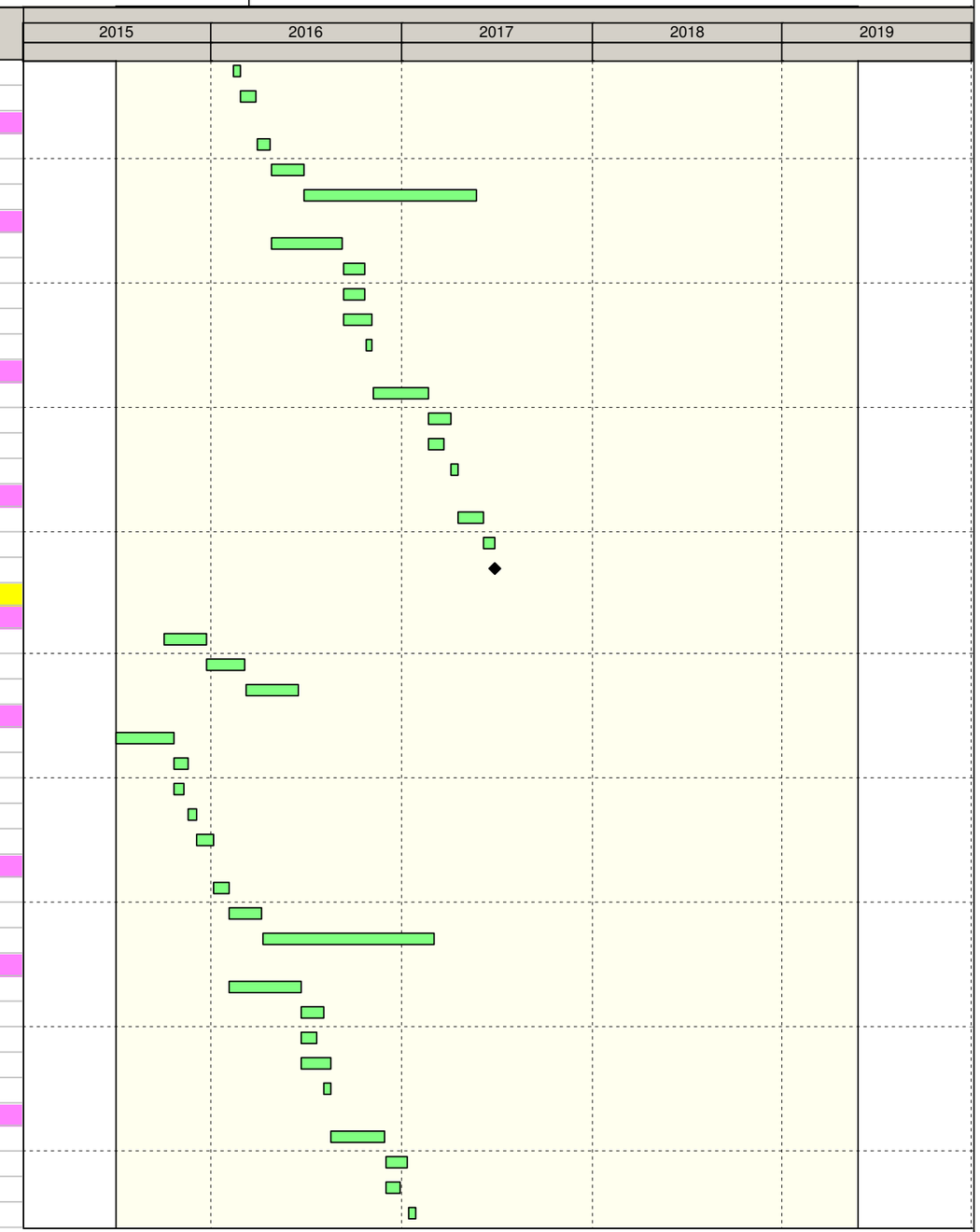


- Remaining Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1H07D-030CMN	Bridge H-4(S.Peach Ave, Box Girder), Type Selection Report, Comments Resol...	10	02/11/16	02/25/16
M1H07D-030TYPE	Bridge H-4(S.Peach Ave, Box Girder), Type Selection Report, Meeting and Appr...	21	02/26/16	03/25/16
BNSF Design Package		302	03/28/16	05/23/17
M1H07D-030BNSI	Bridge H-4(S.Peach Ave, Box Girder), BNSF Design Package, P/S	20	03/28/16	04/22/16
M1H07D-030BNSI	Bridge H-4(S.Peach Ave, Box Girder), BNSF Design Package, BNSF R/A	45	04/25/16	06/27/16
M1H07D-030CPUC	Bridge H-4(S.Peach Ave, Box Girder), BNSF Design Package, CPUC R/A	330	06/28/16	05/23/17
60% Design		137	04/25/16	11/04/16
M1H07D-060S	Bridge H-4(S.Peach Ave, Box Girder), 60% Bridge Design, P/S	97	04/25/16	09/09/16
M1H07D-060R	Bridge H-4(S.Peach Ave, Box Girder), 60% Bridge Design, Authority R/A	30	09/12/16	10/21/16
M1H07D-060AGN	Bridge H-4(S.Peach Ave, Box Girder), 60% Bridge Design, 3rd Party R/A	30	09/12/16	10/21/16
M1H07D-060IND	Bridge H-4(S.Peach Ave, Box Girder), 60% Bridge Design, Independent Check	40	09/12/16	11/04/16
M1H07D-060CMNT	Bridge H-4(S.Peach Ave, Box Girder), 60% Bridge Design, Comments Resolution	10	10/24/16	11/04/16
90% Design		117	11/07/16	04/18/17
M1H07D-090S	Bridge H-4(S.Peach Ave, Box Girder), 90% Bridge Design, P/S	70	11/07/16	02/21/17
M1H07D-090R	Bridge H-4(S.Peach Ave, Box Girder), 90% Bridge Design, Authority R/A	30	02/22/17	04/04/17
M1H07D-090AGN	Bridge H-4(S.Peach Ave, Box Girder), 90% Bridge Design, 3rd Party R/A	30	02/22/17	03/23/17
M1H07D-090CMNT	Bridge H-4(S.Peach Ave, Box Girder), 90% Bridge Design, Comments Resolution	10	04/05/17	04/18/17
RFC		50	04/19/17	06/28/17
M1H07D-100S	Bridge H-4(S.Peach Ave, Box Girder), RFC Bridge Design-P/S	35	04/19/17	06/07/17
M1H07D-100R	Bridge H-4(S.Peach Ave, Box Girder), RFC Bridge Design, Authority R/A	15	06/08/17	06/28/17
M1H07D-100A	Bridge H-4(S.Peach Ave, Box Girder), RFC Bridge Design, Approved	0		06/28/17
9th Ave. H-11		464	07/01/15	04/10/17
Geotech		177	10/01/15	06/15/16
M1H26D-GEO060F	Bridge H-11(9th Ave Box Girder), Geotech, Field Testing & Lab work	55	10/01/15	12/21/15
M1H26D-GEO060	Bridge H-11(9th Ave Box Girder), Geotech, P/S and R/A DFR	50	12/22/15	03/04/16
M1H26D-GEO100	Bridge H-11(9th Ave Box Girder), Geotech, P/S and R/A FFR	72	03/07/16	06/15/16
Type Selection		135	07/01/15	01/05/16
M1H26D-030S	Bridge H-11(9th Ave Box Girder), Type Selection Report, P/S	77	07/01/15	10/20/15
M1H26D-030R	Bridge H-11(9th Ave Box Girder), Type Selection Report, Authority R/A	20	10/21/15	11/17/15
M1H26D-030AGN	Bridge H-11(9th Ave Box Girder), Type Selection Report, 3rd Party R/A	20	10/21/15	11/09/15
M1H26D-030CMN	Bridge H-11(9th Ave Box Girder), Type Selection Report, Comments Resolution	10	11/18/15	12/03/15
M1H26D-030TYPE	Bridge H-11(9th Ave Box Girder), Type Selection Report, Meeting and Approval	21	12/04/15	01/05/16
BNSF Design Package		303	01/06/16	03/03/17
M1H26D-030BNSI	Bridge H-11(9th Ave Box Girder), BNSF Design Package, P/S	20	01/06/16	02/03/16
M1H26D-030BNSI	Bridge H-11(9th Ave Box Girder), BNSF Design Package, BNSF R/A	45	02/04/16	04/07/16
M1H26D-030CPUC	Bridge H-11(9th Ave Box Girder), BNSF Design Package, CPUC R/A	330	04/08/16	03/03/17
60% Design		140	02/04/16	08/17/16
M1H26D-060S	Bridge H-11(9th Ave Box Girder), 60% Bridge Design, P/S	97	02/04/16	06/21/16
M1H26D-060R	Bridge H-11(9th Ave Box Girder), 60% Bridge Design, Authority R/A	30	06/22/16	08/03/16
M1H26D-060AGN	Bridge H-11(9th Ave Box Girder), 60% Bridge Design, 3rd Party R/A	30	06/22/16	07/21/16
M1H26D-060IND	Bridge H-11(9th Ave Box Girder), 60% Bridge Design, Independent Check	40	06/22/16	08/17/16
M1H26D-060CMNT	Bridge H-11(9th Ave Box Girder), 60% Bridge Design, Comments Resolution	10	08/04/16	08/17/16
90% Design		117	08/18/16	01/27/17
M1H26D-090S	Bridge H-11(9th Ave Box Girder), 90% Bridge Design, P/S	70	08/18/16	11/29/16
M1H26D-090R	Bridge H-11(9th Ave Box Girder), 90% Bridge Design, Authority R/A	30	11/30/16	01/12/17
M1H26D-090AGN	Bridge H-11(9th Ave Box Girder), 90% Bridge Design, 3rd Party R/A	30	11/30/16	12/29/16
M1H26D-090CMNT	Bridge H-11(9th Ave Box Girder), 90% Bridge Design, Comments Resolution	10	01/13/17	01/27/17

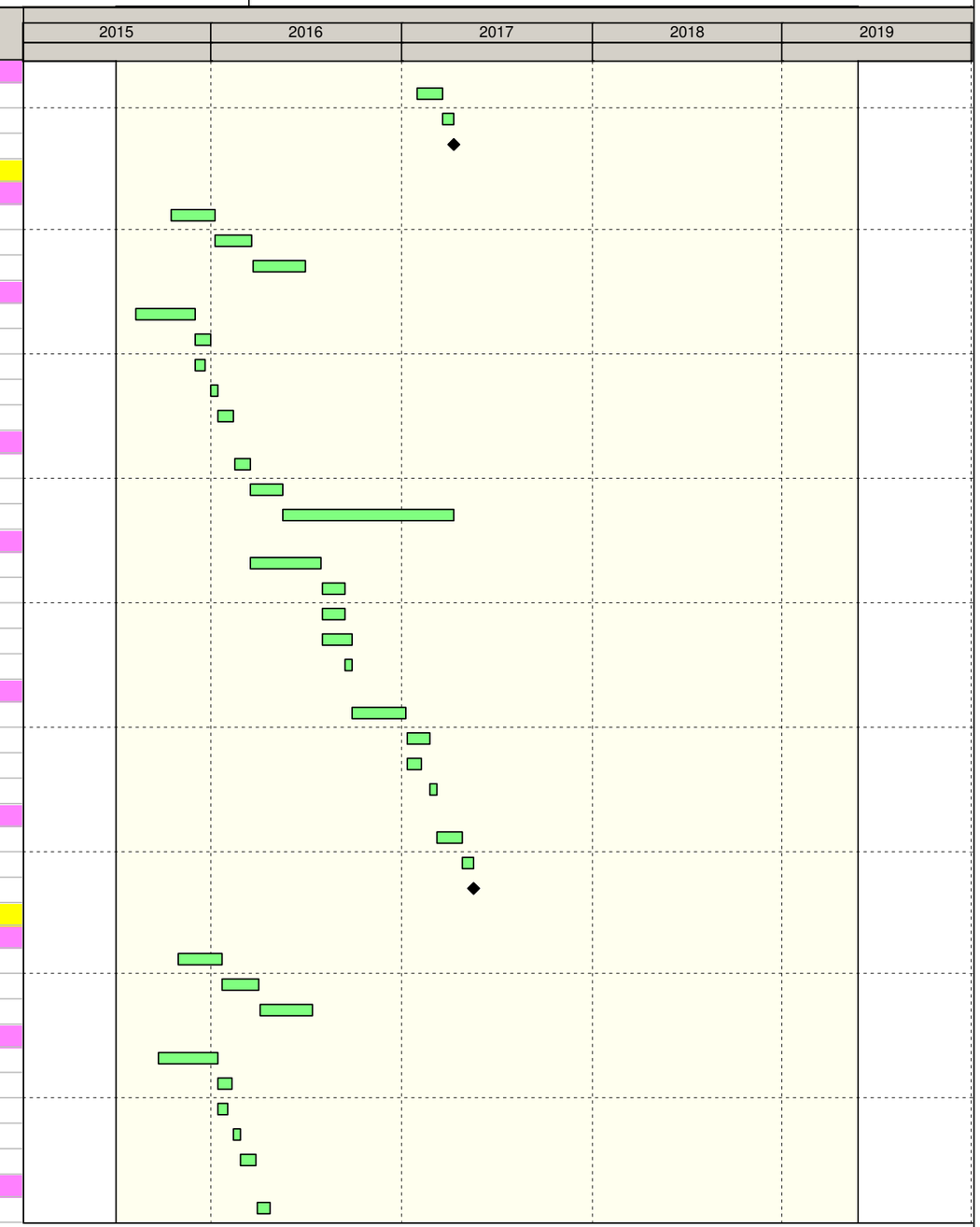


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
RFC		50	01/30/17	04/10/17
M1H26D-100S	Bridge H-11(9th Ave Box Girder), RFC Bridge Design-P/S	35	01/30/17	03/20/17
M1H26D-100R	Bridge H-11(9th Ave Box Girder), RFC Bridge Design, Authority R/A	15	03/21/17	04/10/17
M1H26D-100A	Bridge H-11(9th Ave Box Girder), RFC Bridge Design, Approved	0		04/10/17
Cairo St, H-12		463	08/10/15	05/17/17
Geotech		177	10/16/15	06/29/16
M1H28D-GEO060F	Bridge H-12(Cairo PC Box Beam), Geotech, Field Testing & Lab work	55	10/16/15	01/06/16
M1H28D-GEO060	Bridge H-12(Cairo PC Box Beam), Geotech, P/S and R/A DFR	50	01/07/16	03/18/16
M1H28D-GEO100	Bridge H-12(Cairo PC Box Beam), Geotech, P/S and R/A FFR	72	03/21/16	06/29/16
Type Selection		135	08/10/15	02/12/16
M1H28D-030S	Bridge H-12(Cairo PC Box Beam), Type Selection Report, P/S	77	08/10/15	11/30/15
M1H28D-030R	Bridge H-12(Cairo PC Box Beam), Type Selection Report, Authority R/A	20	12/01/15	12/29/15
M1H28D-030AGN	Bridge H-12(Cairo PC Box Beam), Type Selection Report, 3rd Party R/A	20	12/01/15	12/20/15
M1H28D-030CMN	Bridge H-12(Cairo PC Box Beam), Type Selection Report, Comments Resolution	10	12/30/15	01/13/16
M1H28D-030TYPE	Bridge H-12(Cairo PC Box Beam), Type Selection Report, Meeting and Approval	21	01/14/16	02/12/16
BNSF Design Package		301	02/16/16	04/11/17
M1H28D-030BNSI	Bridge H-12(Cairo PC Box Beam), BNSF Design Package, P/S	20	02/16/16	03/14/16
M1H28D-030BNSI	Bridge H-12(Cairo PC Box Beam), BNSF Design Package, BNSF R/A	45	03/15/16	05/16/16
M1H28D-030CPUC	Bridge H-12(Cairo PC Box Beam), BNSF Design Package, CPUC R/A	330	05/17/16	04/11/17
60% Design		137	03/15/16	09/26/16
M1H28D-060S	Bridge H-12(Cairo PC Box Beam), 60% Bridge Design, P/S	97	03/15/16	07/29/16
M1H28D-060R	Bridge H-12(Cairo PC Box Beam), 60% Bridge Design, Authority R/A	30	08/01/16	09/12/16
M1H28D-060AGN	Bridge H-12(Cairo PC Box Beam), 60% Bridge Design, 3rd Party R/A	30	08/01/16	09/12/16
M1H28D-060IND	Bridge H-12(Cairo PC Box Beam), 60% Bridge Design, Independent Check	40	08/01/16	09/26/16
M1H28D-060CMNT	Bridge H-12(Cairo PC Box Beam), 60% Bridge Design, Comments Resolution	10	09/13/16	09/26/16
90% Design		117	09/27/16	03/08/17
M1H28D-090S	Bridge H-12(Cairo PC Box Beam), 90% Bridge Design, P/S	70	09/27/16	01/09/17
M1H28D-090R	Bridge H-12(Cairo PC Box Beam), 90% Bridge Design, Authority R/A	30	01/10/17	02/22/17
M1H28D-090AGN	Bridge H-12(Cairo PC Box Beam), 90% Bridge Design, 3rd Party R/A	30	01/10/17	02/08/17
M1H28D-090CMNT	Bridge H-12(Cairo PC Box Beam), 90% Bridge Design, Comments Resolution	10	02/23/17	03/08/17
RFC		50	03/09/17	05/17/17
M1H28D-100S	Bridge H-12(Cairo PC Box Beam), RFC Bridge Design-P/S	35	03/09/17	04/26/17
M1H28D-100R	Bridge H-12(Cairo PC Box Beam), RFC Bridge Design, Authority R/A	15	04/27/17	05/17/17
M1H28D-100A	Bridge H-12(Cairo PC Box Beam), RFC Bridge Design, Approved	0		05/17/17
Kings River, H-13		463	09/21/15	06/28/17
Geotech		177	10/30/15	07/14/16
M1H30D-GEO060F	Bridge H-13(Kings River Viaduct), Geotech, Field Testing & Lab work	55	10/30/15	01/21/16
M1H30D-GEO060	Bridge H-13(Kings River Viaduct), Geotech, P/S and R/A DFR	50	01/22/16	04/01/16
M1H30D-GEO100	Bridge H-13(Kings River Viaduct), Geotech, P/S and R/A FFR	72	04/04/16	07/14/16
Type Selection		135	09/21/15	03/25/16
M1H30D-030S	Bridge H-13(Kings River Viaduct), Type Selection Report, P/S	77	09/21/15	01/12/16
M1H30D-030R	Bridge H-13(Kings River Viaduct), Type Selection Report, Authority R/A	20	01/13/16	02/10/16
M1H30D-030AGN	Bridge H-13(Kings River Viaduct), Type Selection Report, 3rd Party R/A	20	01/13/16	02/01/16
M1H30D-030CMN	Bridge H-13(Kings River Viaduct), Type Selection Report, Comments Resolution	10	02/11/16	02/25/16
M1H30D-030TYPE	Bridge H-13(Kings River Viaduct), Type Selection Report, Meeting and Approval	21	02/26/16	03/25/16
BNSF Design Package		302	03/28/16	05/23/17
M1H30D-030BNSI	Bridge H-13(Kings River Viaduct), BNSF Design Package, P/S	20	03/28/16	04/22/16

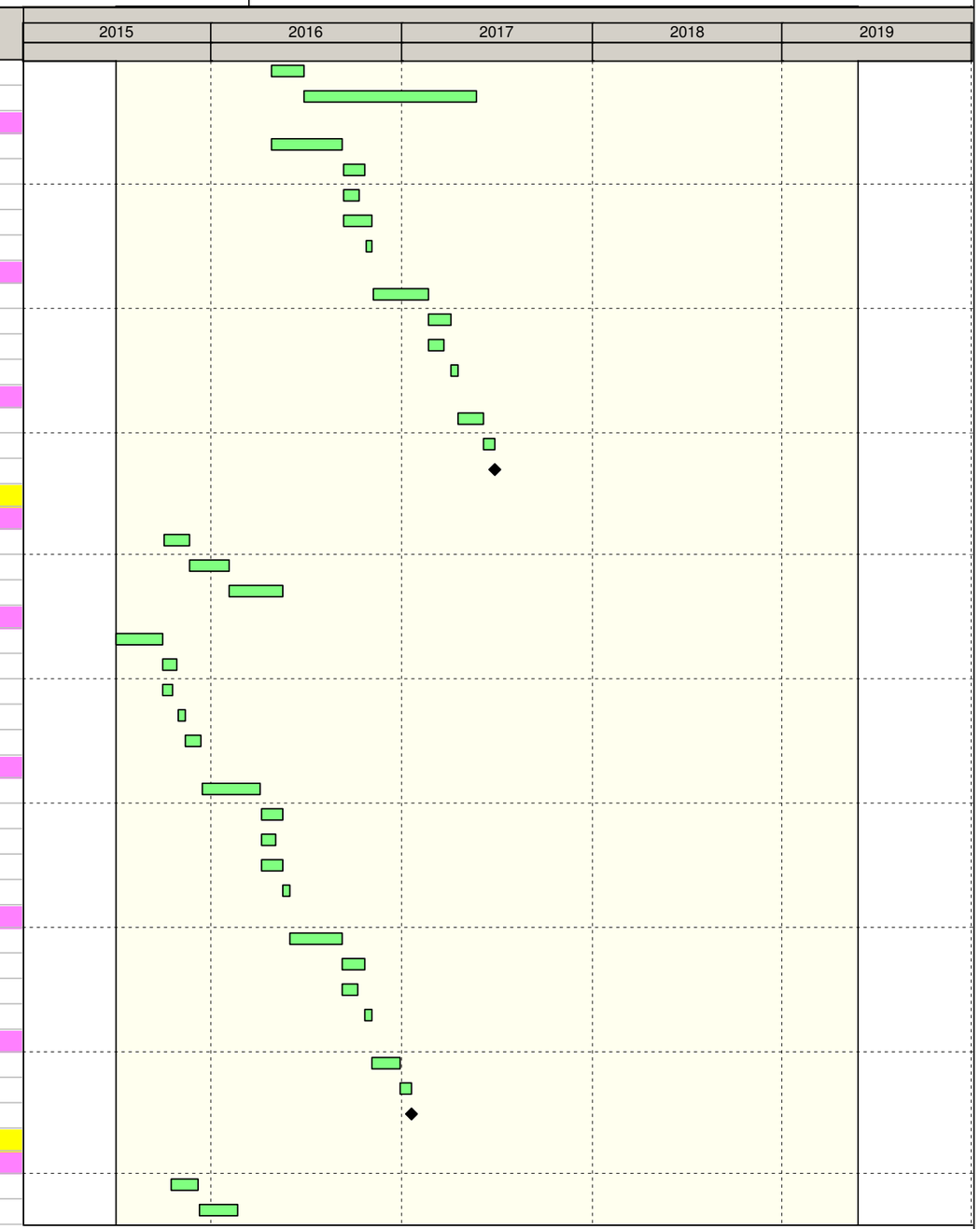


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1H30D-030BNSI	Bridge H-13(Kings River Viaduct), BNSF Design Package, BNSF R/A	45	04/25/16	06/27/16
M1H30D-030CPUC	Bridge H-13(Kings River Viaduct), BNSF Design Package, CPUC R/A	330	06/28/16	05/23/17
60% Design		140	04/25/16	11/04/16
M1H30D-060S	Bridge H-13(Kings River Viaduct), 60% Bridge Design, P/S	97	04/25/16	09/09/16
M1H30D-060R	Bridge H-13(Kings River Viaduct), 60% Bridge Design, Authority R/A	30	09/12/16	10/21/16
M1H30D-060AGN	Bridge H-13(Kings River Viaduct), 60% Bridge Design, 3rd Party R/A	30	09/12/16	10/11/16
M1H30D-060IND	Bridge H-13(Kings River Viaduct), 60% Bridge Design, Independent Check	40	09/12/16	11/04/16
M1H30D-060CMNT	Bridge H-13(Kings River Viaduct), 60% Bridge Design, Comments Resolution	10	10/24/16	11/04/16
90% Design		117	11/07/16	04/18/17
M1H30D-090S	Bridge H-13(Kings River Viaduct), 90% Bridge Design, P/S	70	11/07/16	02/21/17
M1H30D-090R	Bridge H-13(Kings River Viaduct), 90% Bridge Design, Authority R/A	30	02/22/17	04/04/17
M1H30D-090AGN	Bridge H-13(Kings River Viaduct), 90% Bridge Design, 3rd Party R/A	30	02/22/17	03/23/17
M1H30D-090CMNT	Bridge H-13(Kings River Viaduct), 90% Bridge Design, Comments Resolution	10	04/05/17	04/18/17
RFC		50	04/19/17	06/28/17
M1H30D-100S	Bridge H-13(Kings River Viaduct), RFC Bridge Design-P/S	35	04/19/17	06/07/17
M1H30D-100R	Bridge H-13(Kings River Viaduct), RFC Bridge Design, Authority R/A	15	06/08/17	06/28/17
M1H30D-100A	Bridge H-13(Kings River Viaduct), RFC Bridge Design, Approved	0		06/28/17
Access Road H-9		408	07/01/15	01/20/17
Geotech		157	10/01/15	05/17/16
M1H22D-GEO060F	Bridge H-9 (Access Road) Geotech, Field Testing & Lab work	35	10/01/15	11/19/15
M1H22D-GEO060	Bridge H-9 (Access Road) Geotech, P/S and R/A DFR	50	11/20/15	02/04/16
M1H22D-GEO100	Bridge H-9 (Access Road) Geotech, P/S and R/A FFR	72	02/05/16	05/17/16
Type Selection		118	07/01/15	12/11/15
M1H22D-030S	Bridge H-9 (Access Road) Type Selection Report, P/S	62	07/01/15	09/28/15
M1H22D-030R	Bridge H-9 (Access Road) Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M1H22D-030AGN	Bridge H-9 (Access Road) Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M1H22D-030CMN	Bridge H-9 (Access Road) Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M1H22D-030TYPE	Bridge H-9 (Access Road) Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		122	12/14/15	05/31/16
M1H22D-060S	Bridge H-9 (Access Road) 60% Bridge Design, P/S	77	12/14/15	04/04/16
M1H22D-060R	Bridge H-9 (Access Road) 60% Bridge Design, Authority R/A	30	04/05/16	05/16/16
M1H22D-060AGN	Bridge H-9 (Access Road) 60% Bridge Design, 3rd Party R/A	30	04/05/16	05/04/16
M1H22D-060IND	Bridge H-9 (Access Road) 60% Bridge Design, Independent Check	30	04/05/16	05/16/16
M1H22D-060CMNT	Bridge H-9 (Access Road) 60% Bridge Design, Comments Resolution	10	05/17/16	05/31/16
90% Design		112	06/01/16	11/03/16
M1H22D-090S	Bridge H-9 (Access Road) 90% Bridge Design, P/S	70	06/01/16	09/08/16
M1H22D-090R	Bridge H-9 (Access Road) 90% Bridge Design, Authority R/A	30	09/09/16	10/20/16
M1H22D-090AGN	Bridge H-9 (Access Road) 90% Bridge Design, 3rd Party R/A	30	09/09/16	10/08/16
M1H22D-090CMNT	Bridge H-9 (Access Road) 90% Bridge Design, Comments Resolution	10	10/21/16	11/03/16
RFC		50	11/04/16	01/20/17
M1H22D-100S	Bridge H-9 (Access Road) RFC Bridge Design-P/S	35	11/04/16	12/28/16
M1H22D-100R	Bridge H-9 (Access Road) RFC Bridge Design, Authority R/A	15	12/29/16	01/20/17
M1H22D-100A	Bridge H-9 (Access Road) RFC Bridge Design-Approved	0		01/20/17
SR43 H-5		484	08/10/15	06/15/17
Geotech		157	10/16/15	06/01/16
M1H18D-GEO060F	Bridge H-5(SR-43 Truss) Geotech, Field Testing & Lab work	35	10/16/15	12/07/15
M1H18D-GEO060	Bridge H-5(SR-43 Truss) Geotech, P/S and R/A DFR	50	12/8/15	02/19/16

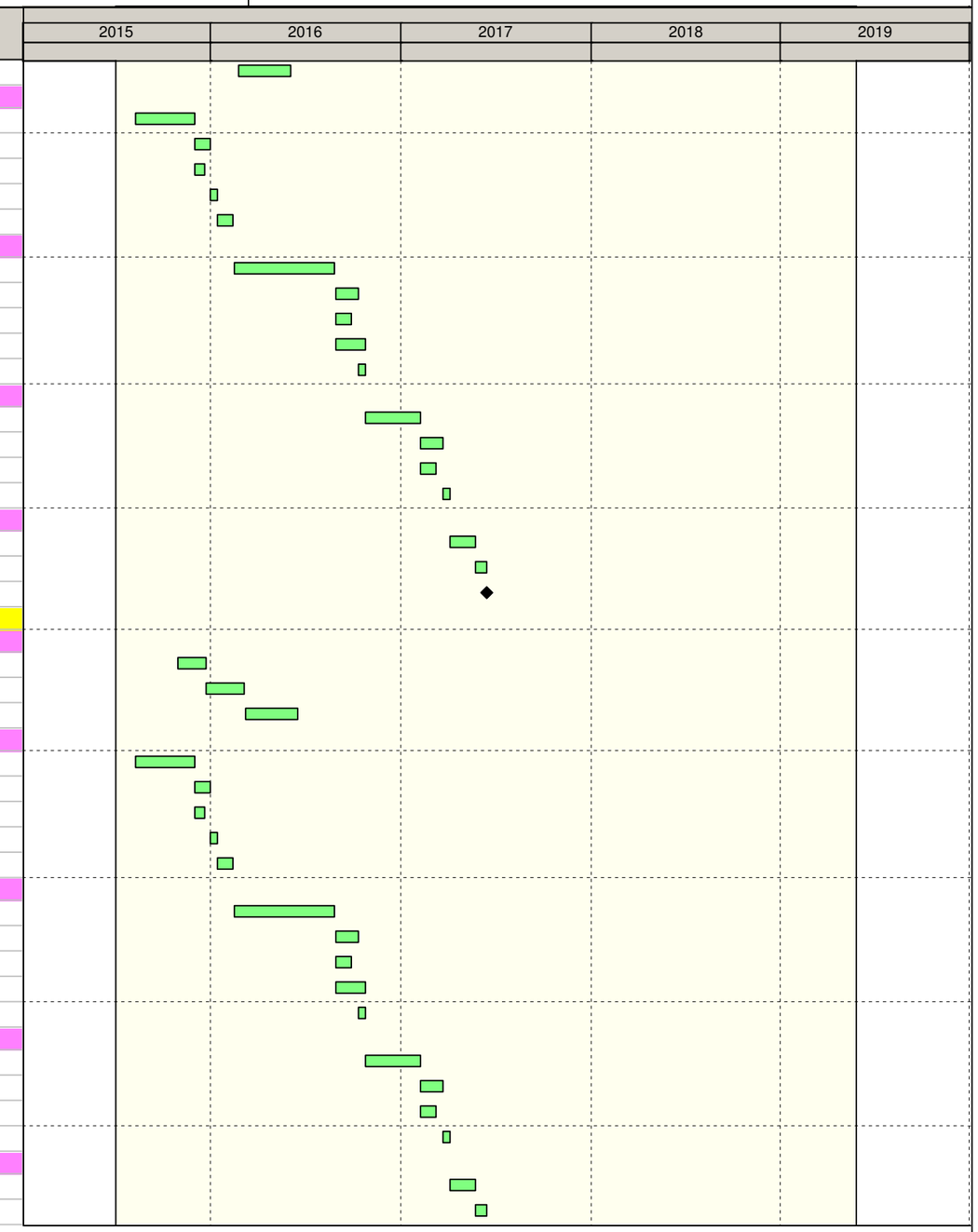


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1H18D-GEO100	Bridge H-5(SR-43 Truss) Geotech, P/S and R/A FFR	72	02/22/16	06/01/16
Type Selection		135	08/10/15	02/12/16
M1H18D-030S	Bridge H-5(SR-43 Truss) Type Selection Report, P/S	77	08/10/15	11/30/15
M1H18D-030R	Bridge H-5(SR-43 Truss) Type Selection Report, Authority R/A	20	12/01/15	12/29/15
M1H18D-030AGN	Bridge H-5(SR-43 Truss) Type Selection Report, 3rd Party R/A	20	12/01/15	12/20/15
M1H18D-030CMN	Bridge H-5(SR-43 Truss) Type Selection Report, Comments Resolution	10	12/30/15	01/13/16
M1H18D-030TYPE	Bridge H-5(SR-43 Truss) Type Selection Report, Meeting and Approval	21	01/14/16	02/12/16
60% Design		180	02/16/16	10/24/16
M1H18D-060S	Bridge H-5(SR-43 Truss) 60% Bridge Design, P/S	137	02/16/16	08/26/16
M1H18D-060R	Bridge H-5(SR-43 Truss) 60% Bridge Design, Authority R/A	30	08/29/16	10/10/16
M1H18D-060AGN	Bridge H-5(SR-43 Truss) 60% Bridge Design, 3rd Party R/A	30	08/29/16	09/27/16
M1H18D-060IND	Bridge H-5(SR-43 Truss) 60% Bridge Design, Independent Check	40	08/29/16	10/24/16
M1H18D-060CMNT	Bridge H-5(SR-43 Truss) 60% Bridge Design, Comments Resolution	10	10/11/16	10/24/16
90% Design		117	10/25/16	04/05/17
M1H18D-090S	Bridge H-5(SR-43 Truss) 90% Bridge Design, P/S	70	10/25/16	02/07/17
M1H18D-090R	Bridge H-5(SR-43 Truss) 90% Bridge Design, Authority R/A	30	02/08/17	03/22/17
M1H18D-090AGN	Bridge H-5(SR-43 Truss) 90% Bridge Design, 3rd Party R/A	30	02/08/17	03/09/17
M1H18D-090CMNT	Bridge H-5(SR-43 Truss) 90% Bridge Design, Comments Resolution	10	03/23/17	04/05/17
RFC		50	04/06/17	06/15/17
M1H18D-100S	Bridge H-5(SR-43 Truss) RFC Bridge Design-P/S	35	04/06/17	05/24/17
M1H18D-100R	Bridge H-5(SR-43 Truss) RFC Bridge Design, Authority R/A	15	05/25/17	06/15/17
M1H18D-100A	Bridge H-5(SR-43 Truss) RFC Bridge Design-Approved	0		06/15/17
Cole Slough H-7		484	08/10/15	06/15/17
Geotech		157	10/30/15	06/15/16
M1H20D-GEO060F	Bridge H-7(Cole Slough Truss) Geotech, Field Testing & Lab work	35	10/30/15	12/21/15
M1H20D-GEO060	Bridge H-7(Cole Slough Truss) Geotech, P/S and R/A DFR	50	12/22/15	03/04/16
M1H20D-GEO100	Bridge H-7(Cole Slough Truss) Geotech, P/S and R/A FFR	72	03/07/16	06/15/16
Type Selection		135	08/10/15	02/12/16
M1H20D-030S	Bridge H-7(Cole Slough Truss) Type Selection Report, P/S	77	08/10/15	11/30/15
M1H20D-030R	Bridge H-7(Cole Slough Truss) Type Selection Report, Authority R/A	20	12/01/15	12/29/15
M1H20D-030AGN	Bridge H-7(Cole Slough Truss) Type Selection Report, 3rd Party R/A	20	12/01/15	12/20/15
M1H20D-030CMN	Bridge H-7(Cole Slough Truss) Type Selection Report, Comments Resolution	10	12/30/15	01/13/16
M1H20D-030TYPE	Bridge H-7(Cole Slough Truss) Type Selection Report, Meeting and Approval	21	01/14/16	02/12/16
60% Design		180	02/16/16	10/24/16
M1H20D-060S	Bridge H-7(Cole Slough Truss) 60% Bridge Design, P/S	137	02/16/16	08/26/16
M1H20D-060R	Bridge H-7(Cole Slough Truss) 60% Bridge Design, Authority R/A	30	08/29/16	10/10/16
M1H20D-060AGN	Bridge H-7(Cole Slough Truss) 60% Bridge Design, 3rd Party R/A	30	08/29/16	09/27/16
M1H20D-060IND	Bridge H-7(Cole Slough Truss) 60% Bridge Design, Independent Check	40	08/29/16	10/24/16
M1H20D-060CMNT	Bridge H-7(Cole Slough Truss) 60% Bridge Design, Comments Resolution	10	10/11/16	10/24/16
90% Design		117	10/25/16	04/05/17
M1H20D-090S	Bridge H-7(Cole Slough Truss) 90% Bridge Design, P/S	70	10/25/16	02/07/17
M1H20D-090R	Bridge H-7(Cole Slough Truss) 90% Bridge Design, Authority R/A	30	02/08/17	03/22/17
M1H20D-090AGN	Bridge H-7(Cole Slough Truss) 90% Bridge Design, 3rd Party R/A	30	02/08/17	03/09/17
M1H20D-090CMNT	Bridge H-7(Cole Slough Truss) 90% Bridge Design, Comments Resolution	10	03/23/17	04/05/17
RFC		50	04/06/17	06/15/17
M1H20D-100S	Bridge H-7(Cole Slough Truss) RFC Bridge Design-P/S	35	04/06/17	05/24/17
M1H20D-100R	Bridge H-7(Cole Slough Truss) RFC Bridge Design, Authority R/A	15	05/25/17	06/15/17

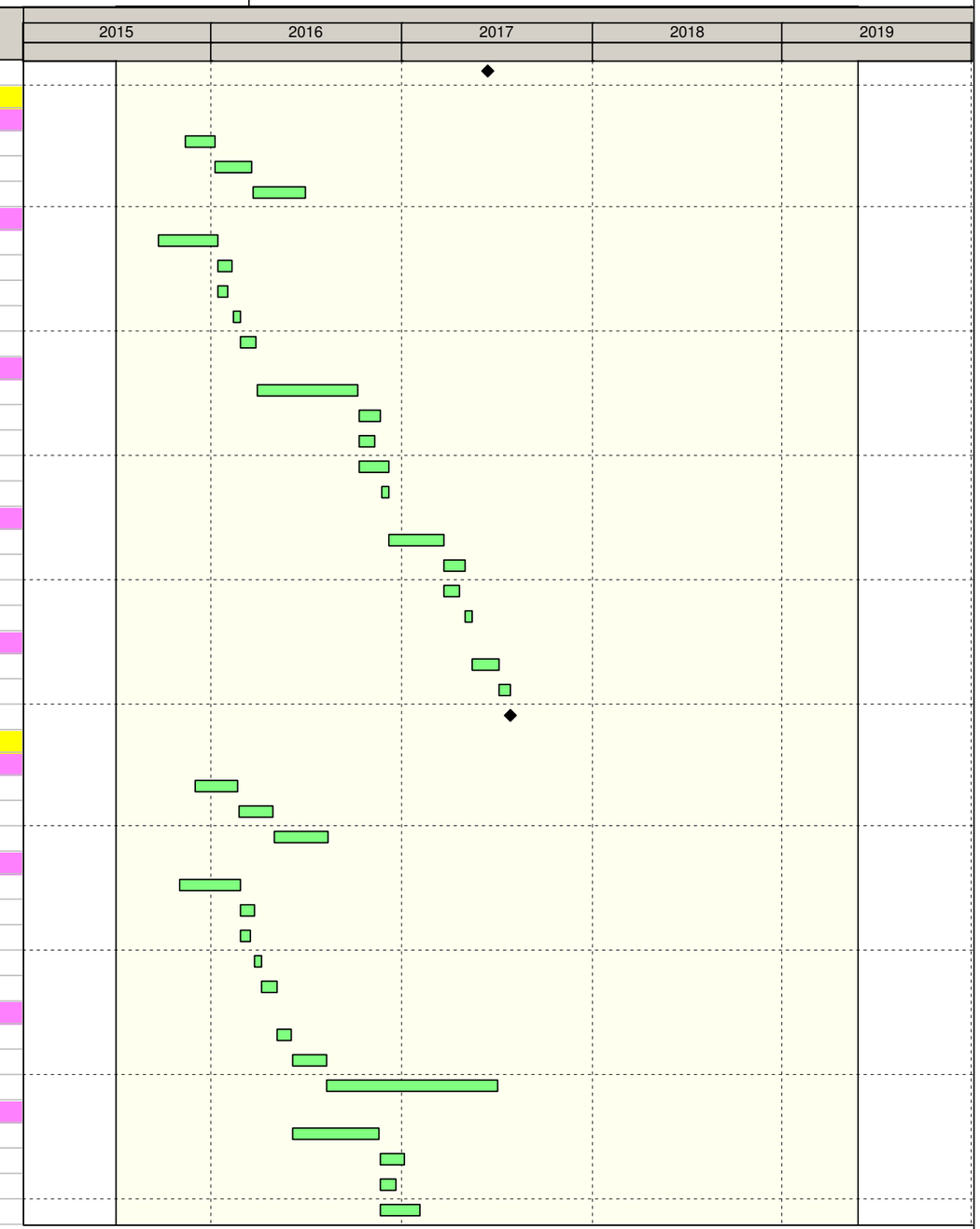


- Remaining Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1H20D-100A	Bridge H-7(Cole Slough Truss) RFC Bridge Design-Approved	0		06/15/17
Dutch John Cut H-10		484	09/21/15	07/27/17
Geotech		157	11/13/15	06/29/16
M1H24D-GEO060F	Bridge H-10 (Dutch John Cut Box & Truss) Geotech, Field Testing & Lab work	35	11/13/15	01/06/16
M1H24D-GEO060	Bridge H-10 (Dutch John Cut Box & Truss) Geotech, P/S and R/A DFR	50	01/07/16	03/18/16
M1H24D-GEO100	Bridge H-10 (Dutch John Cut Box & Truss) Geotech, P/S and R/A FFR	72	03/21/16	06/29/16
Type Selection		135	09/21/15	03/25/16
M1H24D-030S	Bridge H-10 (Dutch John Cut Box & Truss) Type Selection Report, P/S	77	09/21/15	01/12/16
M1H24D-030R	Bridge H-10 (Dutch John Cut Box & Truss) Type Selection Report, Authority R/A	20	01/13/16	02/10/16
M1H24D-030AGN	Bridge H-10 (Dutch John Cut Box & Truss) Type Selection Report, 3rd Party R/A	20	01/13/16	02/01/16
M1H24D-030CMN	Bridge H-10 (Dutch John Cut Box & Truss) Type Selection Report, Comments ...	10	02/11/16	02/25/16
M1H24D-030TYPE	Bridge H-10 (Dutch John Cut Box & Truss) Type Selection Report, Meeting and...	21	02/26/16	03/25/16
60% Design		183	03/28/16	12/07/16
M1H24D-060S	Bridge H-10 (Dutch John Cut Box & Truss) 60% Bridge Design, P/S	137	03/28/16	10/07/16
M1H24D-060R	Bridge H-10 (Dutch John Cut Box & Truss) 60% Bridge Design, Authority R/A	30	10/10/16	11/21/16
M1H24D-060AGN	Bridge H-10 (Dutch John Cut Box & Truss) 60% Bridge Design, 3rd Party R/A	30	10/10/16	11/08/16
M1H24D-060IND	Bridge H-10 (Dutch John Cut Box & Truss) 60% Bridge Design, Independent C...	40	10/10/16	12/07/16
M1H24D-060CMNT	Bridge H-10 (Dutch John Cut Box & Truss) 60% Bridge Design, Comments Res...	10	11/22/16	12/07/16
90% Design		114	12/08/16	05/16/17
M1H24D-090S	Bridge H-10 (Dutch John Cut Box & Truss) 90% Bridge Design, P/S	70	12/08/16	03/21/17
M1H24D-090R	Bridge H-10 (Dutch John Cut Box & Truss) 90% Bridge Design, Authority R/A	30	03/22/17	05/02/17
M1H24D-090AGN	Bridge H-10 (Dutch John Cut Box & Truss) 90% Bridge Design, 3rd Party R/A	30	03/22/17	04/20/17
M1H24D-090CMNT	Bridge H-10 (Dutch John Cut Box & Truss) 90% Bridge Design, Comments Res...	10	05/03/17	05/16/17
RFC		50	05/17/17	07/27/17
M1H24D-100S	Bridge H-10 (Dutch John Cut Box & Truss) RFC Bridge Design-P/S	35	05/17/17	07/06/17
M1H24D-100R	Bridge H-10 (Dutch John Cut Box & Truss) RFC Bridge Design, Authority R/A	15	07/07/17	07/27/17
M1H24D-100A	Bridge H-10 (Dutch John Cut Box & Truss) RFC Bridge Design-Approved	0		07/27/17
BNSF H-2		484	11/02/15	09/07/17
Geotech		177	12/01/15	08/11/16
M1H04D-GEO060F	Bridge H-2(BNSF Straddle), Geotech, Field Testing & Lab work	55	12/01/15	02/19/16
M1H04D-GEO060	Bridge H-2(BNSF Straddle), Geotech, P/S and R/A DFR	50	02/22/16	04/29/16
M1H04D-GEO100	Bridge H-2(BNSF Straddle), Geotech, P/S and R/A FFR	72	05/02/16	08/11/16
Type Selection		134	11/02/15	05/05/16
M1H04D-030S	Bridge H-2(BNSF Straddle), Type Selection Report, P/S	77	11/02/15	02/24/16
M1H04D-030R	Bridge H-2(BNSF Straddle), Type Selection Report, Authority R/A	20	02/25/16	03/23/16
M1H04D-030AGN	Bridge H-2(BNSF Straddle), Type Selection Report, 3rd Party R/A	20	02/25/16	03/15/16
M1H04D-030CMN	Bridge H-2(BNSF Straddle), Type Selection Report, Comments Resolution	10	03/24/16	04/06/16
M1H04D-030TYPE	Bridge H-2(BNSF Straddle), Type Selection Report, Meeting and Approval	21	04/07/16	05/05/16
BNSF Design Package		303	05/06/16	07/04/17
M1H04D-030BNSI	Bridge H-2(BNSF Straddle), BNSF Design Package, P/S	20	05/06/16	06/03/16
M1H04D-030BNSI	Bridge H-2(BNSF Straddle), BNSF Design Package, BNSF R/A	45	06/06/16	08/08/16
M1H04D-030CPUC	Bridge H-2(BNSF Straddle), BNSF Design Package, CPUC R/A	330	08/09/16	07/04/17
60% Design		175	06/06/16	02/03/17
M1H04D-060S	Bridge H-2(BNSF Straddle), 60% Bridge Design, P/S	117	06/06/16	11/18/16
M1H04D-060R	Bridge H-2(BNSF Straddle), 60% Bridge Design, Authority R/A	30	11/21/16	01/05/17
M1H04D-060AGN	Bridge H-2(BNSF Straddle), 60% Bridge Design, 3rd Party R/A	30	11/21/16	12/20/16
M1H04D-060IND	Bridge H-2(BNSF Straddle), 60% Bridge Design, Independent Check	50	11/21/16	02/03/17

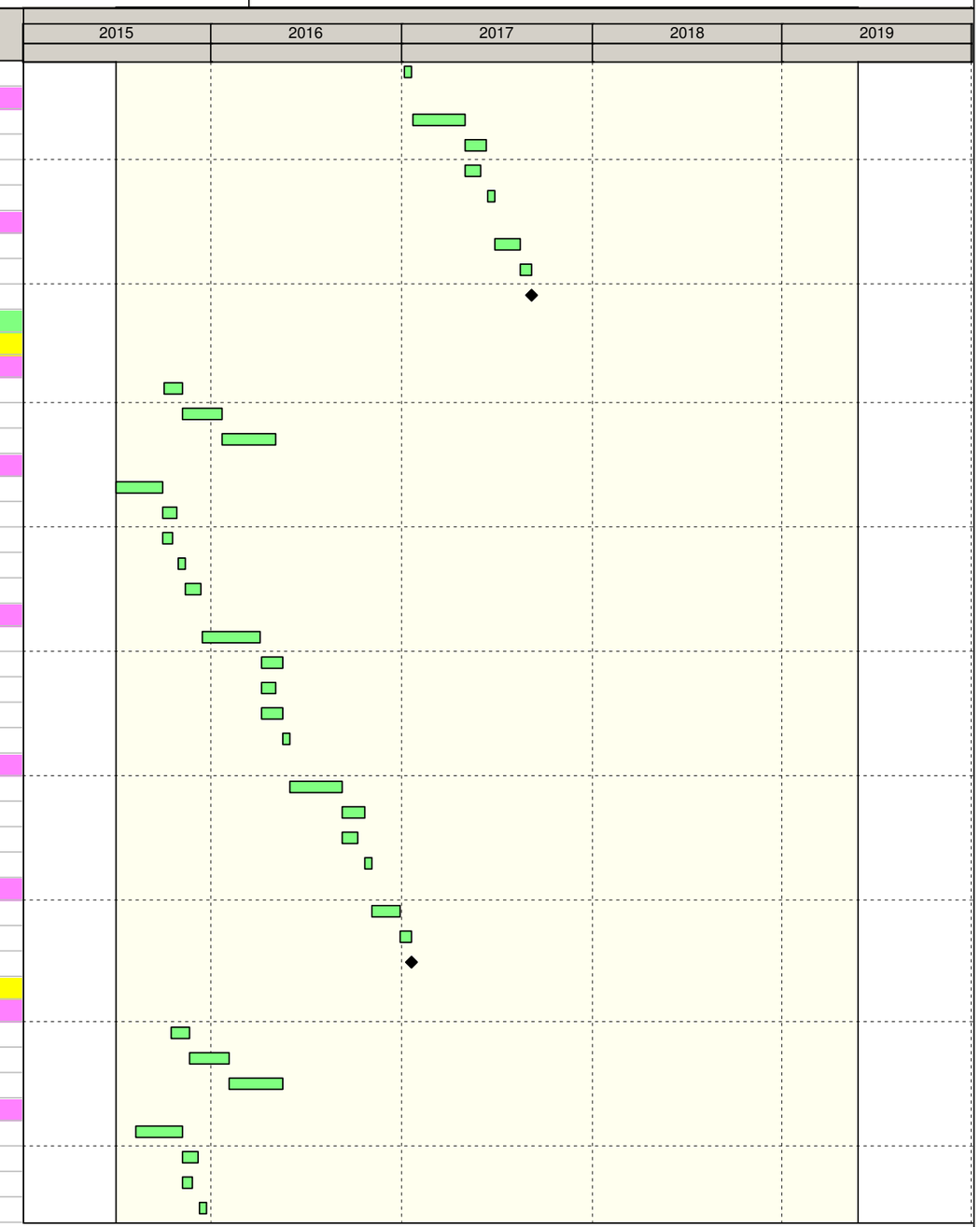


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1H04D-060CMNT	Bridge H-2(BNSF Straddle), 60% Bridge Design, Comments Resolution	10	01/06/17	01/20/17
90% Design		112	01/23/17	06/27/17
M1H04D-090S	Bridge H-2(BNSF Straddle), 90% Bridge Design, P/S	70	01/23/17	05/01/17
M1H04D-090R	Bridge H-2(BNSF Straddle), 90% Bridge Design, Authority R/A	30	05/02/17	06/13/17
M1H04D-090AGN	Bridge H-2(BNSF Straddle), 90% Bridge Design, 3rd Party R/A	30	05/02/17	05/31/17
M1H04D-090CMNT	Bridge H-2(BNSF Straddle), 90% Bridge Design, Comments Resolution	10	06/14/17	06/27/17
RFC		50	06/28/17	09/07/17
M1H04D-100S	Bridge H-2(BNSF Straddle), RFC Bridge Design-P/S	35	06/28/17	08/16/17
M1H04D-100R	Bridge H-2(BNSF Straddle), RFC Bridge Design, Authority R/A	15	08/17/17	09/07/17
M1H04D-100A	Bridge H-2(BNSF Straddle), RFC Bridge Design, Approved	0		09/07/17
Grade Separation Structures		485	07/01/15	05/09/17
E. Elkhorn (1250+51)		408	07/01/15	01/20/17
Geotech		147	10/01/15	05/03/16
M1H11D-GEO060F	E. Elkhorn Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M1H11D-GEO060	E. Elkhorn Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M1H11D-GEO100	E. Elkhorn Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M1H11D-030S	E. Elkhorn Type Selection Report, P/S	62	07/01/15	09/28/15
M1H11D-030R	E. Elkhorn Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M1H11D-030AGN	E. Elkhorn Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M1H11D-030CMN	E. Elkhorn Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M1H11D-030TYPE	E. Elkhorn Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		122	12/14/15	05/31/16
M1H11D-060S	E. Elkhorn 60% Bridge Design, P/S	77	12/14/15	04/04/16
M1H11D-060R	E. Elkhorn 60% Bridge Design, Authority R/A	30	04/05/16	05/16/16
M1H11D-060AGN	E. Elkhorn 60% Bridge Design, 3rd Party R/A	30	04/05/16	05/04/16
M1H11D-060IND	E. Elkhorn 60% Bridge Design, Independent Check	30	04/05/16	05/16/16
M1H11D-060CMNT	E. Elkhorn 60% Bridge Design, Comments Resolution	10	05/17/16	05/31/16
90% Design		112	06/01/16	11/03/16
M1H11D-090S	E. Elkhorn 90% Bridge Design, P/S	70	06/01/16	09/08/16
M1H11D-090R	E. Elkhorn 90% Bridge Design, Authority R/A	30	09/09/16	10/20/16
M1H11D-090AGN	E. Elkhorn 90% Bridge Design, 3rd Party R/A	30	09/09/16	10/08/16
M1H11D-090CMNT	E. Elkhorn 90% Bridge Design, Comments Resolution	10	10/21/16	11/03/16
RFC		50	11/04/16	01/20/17
M1H11D-100S	E. Elkhorn RFC Bridge Design-P/S	35	11/04/16	12/28/16
M1H11D-100R	E. Elkhorn RFC Bridge Design, Authority R/A	15	12/29/16	01/20/17
M1H11D-100A	E. Elkhorn RFC Bridge Design, Approved	0		01/20/17
S. Fowler (1289+38)		408	08/10/15	03/01/17
Geotech		147	10/16/15	05/17/16
M1H13D-GEO060F	S. Fowler Geotech, Field Testing & Lab work	25	10/16/15	11/19/15
M1H13D-GEO060	S. Fowler Geotech, P/S and R/A DFR	50	11/20/15	02/04/16
M1H13D-GEO100	S. Fowler Geotech, P/S and R/A FFR	72	02/05/16	05/17/16
Type Selection		120	08/10/15	01/22/16
M1H13D-030S	S. Fowler Type Selection Report, P/S	62	08/10/15	11/05/15
M1H13D-030R	S. Fowler Type Selection Report, Authority R/A	20	11/06/15	12/07/15
M1H13D-030AGN	S. Fowler Type Selection Report, 3rd Party R/A	20	11/06/15	11/25/15
M1H13D-030CMN	S. Fowler Type Selection Report, Comments Resolution	10	12/08/15	12/21/15

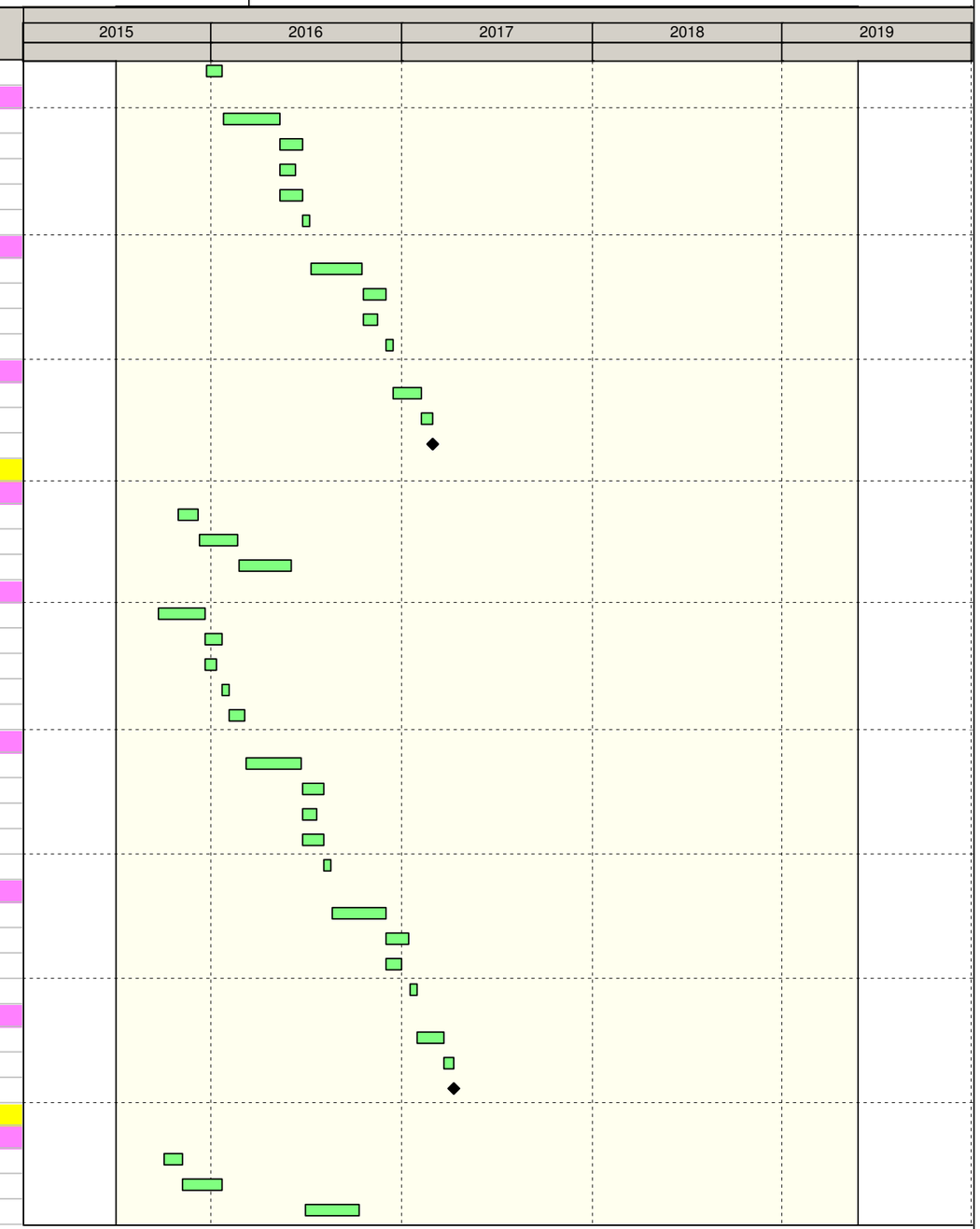


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1H13D-030TYPE	S. Fowler Type Selection Report, Meeting and Approval	21	12/22/15	01/22/16
60% Design		120	01/25/16	07/08/16
M1H13D-060S	S. Fowler 60% Bridge Design, P/S	77	01/25/16	05/11/16
M1H13D-060R	S. Fowler 60% Bridge Design, Authority R/A	30	05/12/16	06/23/16
M1H13D-060AGN	S. Fowler 60% Bridge Design, 3rd Party R/A	30	05/12/16	06/10/16
M1H13D-060IND	S. Fowler 60% Bridge Design, Independent Check	30	05/12/16	06/23/16
M1H13D-060CMNT	S. Fowler 60% Bridge Design, Comments Resolution	10	06/24/16	07/08/16
90% Design		114	07/11/16	12/15/16
M1H13D-090S	S. Fowler 90% Bridge Design, P/S	70	07/11/16	10/17/16
M1H13D-090R	S. Fowler 90% Bridge Design, Authority R/A	30	10/18/16	12/01/16
M1H13D-090AGN	S. Fowler 90% Bridge Design, 3rd Party R/A	30	10/18/16	11/16/16
M1H13D-090CMNT	S. Fowler 90% Bridge Design, Comments Resolution	10	12/02/16	12/15/16
RFC		50	12/16/16	03/01/17
M1H13D-100S	S. Fowler RFC Bridge Design-P/S	35	12/16/16	02/07/17
M1H13D-100R	S. Fowler RFC Bridge Design, Authority R/A	15	02/08/17	03/01/17
M1H13D-100A	S. Fowler RFC Bridge Design, Approved	0		03/01/17
E. Davis (1351+01)		407	09/21/15	04/11/17
Geotech		147	10/30/15	06/01/16
M1H15D-GEO060F	E. Davis Geotech, Field Testing & Lab work	25	10/30/15	12/07/15
M1H15D-GEO060	E. Davis Geotech, P/S and R/A DFR	50	12/08/15	02/19/16
M1H15D-GEO100	E. Davis Geotech, P/S and R/A FFR	72	02/22/16	06/01/16
Type Selection		120	09/21/15	03/04/16
M1H15D-030S	E. Davis Type Selection Report, P/S	62	09/21/15	12/18/15
M1H15D-030R	E. Davis Type Selection Report, Authority R/A	20	12/21/15	01/20/16
M1H15D-030AGN	E. Davis Type Selection Report, 3rd Party R/A	20	12/21/15	01/09/16
M1H15D-030CMN	E. Davis Type Selection Report, Comments Resolution	10	01/21/16	02/03/16
M1H15D-030TYPE	E. Davis Type Selection Report, Meeting and Approval	21	02/04/16	03/04/16
60% Design		119	03/07/16	08/18/16
M1H15D-060S	E. Davis 60% Bridge Design, P/S	77	03/07/16	06/22/16
M1H15D-060R	E. Davis 60% Bridge Design, Authority R/A	30	06/23/16	08/04/16
M1H15D-060AGN	E. Davis 60% Bridge Design, 3rd Party R/A	30	06/23/16	07/22/16
M1H15D-060IND	E. Davis 60% Bridge Design, Independent Check	30	06/23/16	08/04/16
M1H15D-060CMNT	E. Davis 60% Bridge Design, Comments Resolution	10	08/05/16	08/18/16
90% Design		117	08/19/16	01/30/17
M1H15D-090S	E. Davis 90% Bridge Design, P/S	70	08/19/16	11/30/16
M1H15D-090R	E. Davis 90% Bridge Design, Authority R/A	30	12/01/16	01/13/17
M1H15D-090AGN	E. Davis 90% Bridge Design, 3rd Party R/A	30	12/01/16	12/30/16
M1H15D-090CMNT	E. Davis 90% Bridge Design, Comments Resolution	10	01/17/17	01/30/17
RFC		50	01/31/17	04/11/17
M1H15D-100S	E. Davis RFC Bridge Design-P/S	35	01/31/17	03/21/17
M1H15D-100R	E. Davis RFC Bridge Design, Authority R/A	15	03/22/17	04/11/17
M1H15D-100A	E. Davis RFC Bridge Design-Approved	0		04/11/17
E. Adams Ave. (686+26)		428	07/01/15	02/17/17
Geotech		258	10/01/15	10/10/16
M1M03D-GEO060F	E. Adams, Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M1M03D-GEO06C	E. Adams, Geotech, P/S Draft Foundation Report	50	11/06/15	01/21/16
M1M03D-GEO10C	E. Adams, Geotech, P/S Final Foundation Report	72	06/29/16	10/10/16

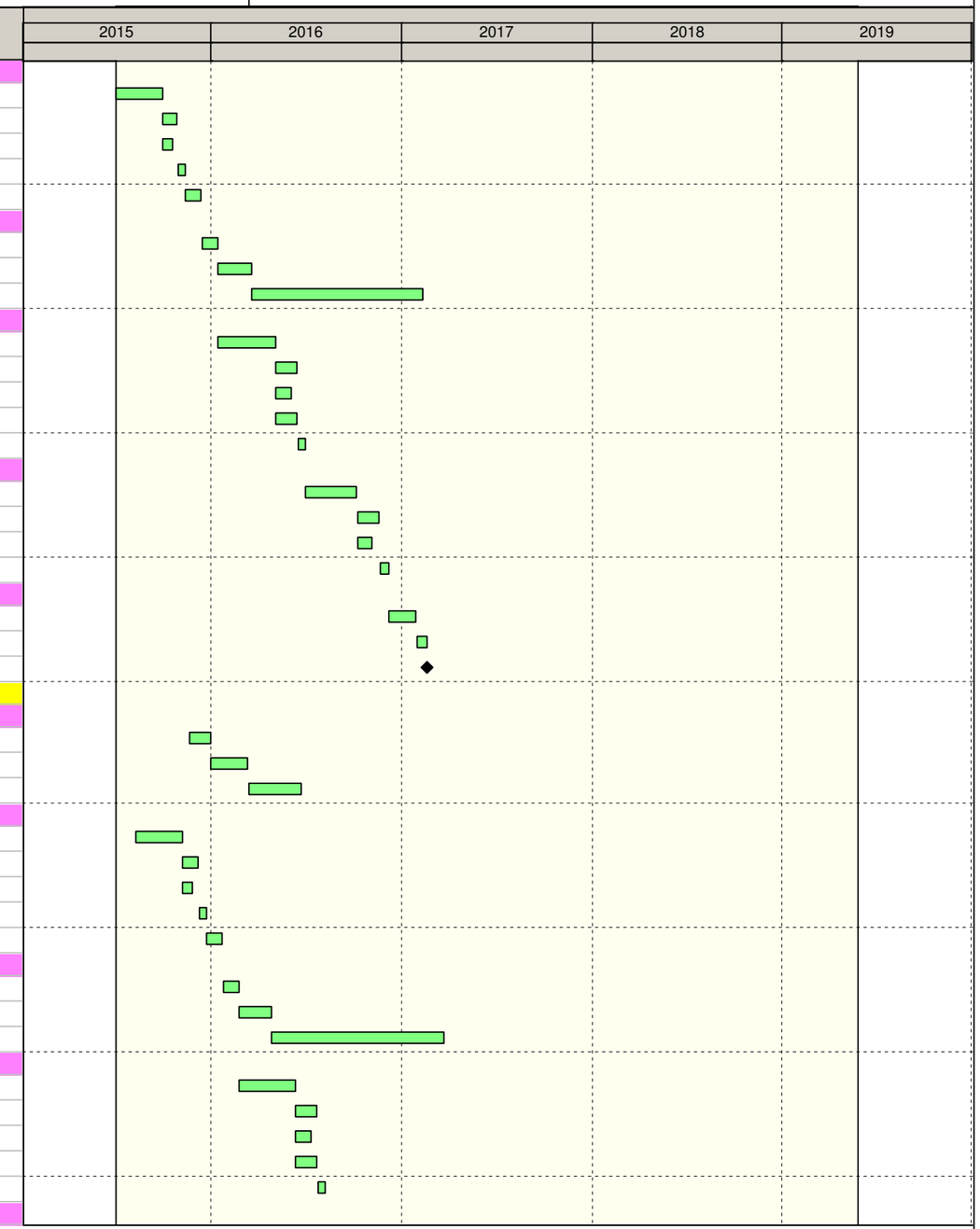


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
Type Selection		118	07/01/15	12/11/15
M1M03D-030S	E. Adams, Type Selection Report, P/S	62	07/01/15	09/28/15
M1M03D-030R	E. Adams, Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M1M03D-030AGN	E. Adams, Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M1M03D-030CMN	E. Adams, Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M1M03D-030TYPE	E. Adams, Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
BNSF Design Package		305	12/14/15	02/10/17
M1M03D-030BNS	E. Adams, BNSF Design Package, P/S	20	12/14/15	01/12/16
M1M03D-030BNS	E. Adams, BNSF Design Package, BNSF R/A	45	01/13/16	03/17/16
M1M03D-030CPUC	E. Adams, BNSF Design Package, CPUC R/A	330	03/18/16	02/10/17
60% Design		120	01/13/16	06/28/16
M1M03D-060S	E. Adams, 60% Bridge Design, P/S	77	01/13/16	05/02/16
M1M03D-060R	E. Adams, 60% Bridge Design, Authority R/A	30	05/03/16	06/14/16
M1M03D-060AGN	E. Adams, 60% Bridge Design, 3rd Party R/A	30	05/03/16	06/01/16
M1M03D-060IND	E. Adams, 60% Bridge Design, Independent Check	30	05/03/16	06/14/16
M1M03D-060CMNT	E. Adams, 60% Bridge Design, Comments Resolution	10	06/15/16	06/28/16
90% Design		115	06/29/16	12/06/16
M1M03D-090S	E. Adams, 90% Bridge Design, P/S	70	06/29/16	10/06/16
M1M03D-090R	E. Adams, 90% Bridge Design, Authority R/A	30	10/07/16	11/18/16
M1M03D-090AGN	E. Adams, 90% Bridge Design, 3rd Party R/A	30	10/07/16	11/05/16
M1M03D-090CMNT	E. Adams, 90% Bridge Design, Comments Resolution	10	11/21/16	12/06/16
RFC		50	12/07/16	02/17/17
M1M03D-100S	E. Adams, RFC Bridge Design-P/S	35	12/07/16	01/27/17
M1M03D-100R	E. Adams, RFC Bridge Design, Authority R/A	15	01/30/17	02/17/17
M1M03D-100A	E. Adams, RFC Bridge Design, Approved	0		02/17/17
E. Lincoln Ave (633+47)		428	08/10/15	03/29/17
Geotech		147	11/20/15	06/22/16
M1M01D-GEO060F	E. Lincoln, Geotech, Field Testing & Lab work	25	11/20/15	12/29/15
M1M01D-GEO060	E. Lincoln, Geotech, P/S and R/A DFR	50	12/30/15	03/11/16
M1M01D-GEO100	E. Lincoln, Geotech, P/S and R/A FFR	72	03/14/16	06/22/16
Type Selection		120	08/10/15	01/22/16
M1M01D-030S	E. Lincoln, Type Selection Report, P/S	62	08/10/15	11/05/15
M1M01D-030R	E. Lincoln, Type Selection Report, Authority R/A	20	11/06/15	12/07/15
M1M01D-030AGN	E. Lincoln, Type Selection Report, 3rd Party R/A	20	11/06/15	11/25/15
M1M01D-030CMN	E. Lincoln, Type Selection Report, Comments Resolution	10	12/08/15	12/21/15
M1M01D-030TYPE	E. Lincoln, Type Selection Report, Meeting and Approval	21	12/22/15	01/22/16
BNSF Design Package		302	01/25/16	03/21/17
M1M01D-030BNS	E. Lincoln, BNSF Design Package, P/S	20	01/25/16	02/22/16
M1M01D-030BNS	E. Lincoln, BNSF Design Package, BNSF R/A	45	02/23/16	04/25/16
M1M01D-030CPUC	E. Lincoln, BNSF Design Package, CPUC R/A	330	04/26/16	03/21/17
60% Design		119	02/23/16	08/05/16
M1M01D-060S	E. Lincoln, 60% Bridge Design, P/S	77	02/23/16	06/09/16
M1M01D-060R	E. Lincoln, 60% Bridge Design, Authority R/A	30	06/10/16	07/22/16
M1M01D-060AGN	E. Lincoln, 60% Bridge Design, 3rd Party R/A	30	06/10/16	07/09/16
M1M01D-060IND	E. Lincoln, 60% Bridge Design, Independent Check	30	06/10/16	07/22/16
M1M01D-060CMNT	E. Lincoln, 60% Bridge Design, Comments Resolution	10	07/25/16	08/05/16
90% Design		117	08/08/16	01/17/17

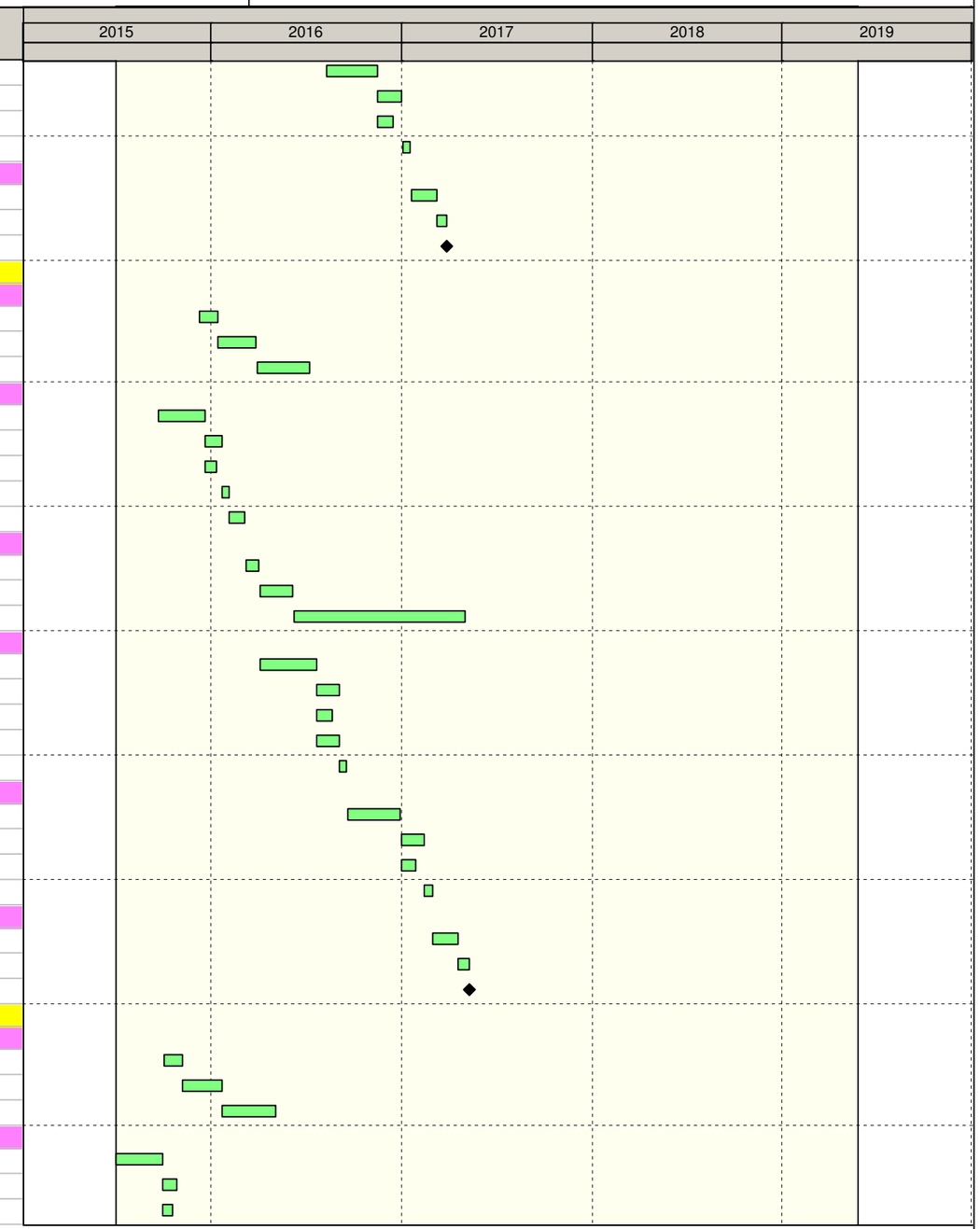


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1M01D-090S	E. Lincoln, 90% Bridge Design, P/S	70	08/08/16	11/15/16
M1M01D-090R	E. Lincoln, 90% Bridge Design, Authority R/A	30	11/16/16	12/30/16
M1M01D-090AGN	E. Lincoln, 90% Bridge Design, 3rd Party R/A	30	11/16/16	12/15/16
M1M01D-090CMNT	E. Lincoln, 90% Bridge Design, Comments Resolution	10	01/03/17	01/17/17
RFC		50	01/18/17	03/29/17
M1M01D-100S	E. Lincoln, RFC Bridge Design-P/S	35	01/18/17	03/08/17
M1M01D-100R	E. Lincoln, RFC Bridge Design, Authority R/A	15	03/09/17	03/29/17
M1M01D-100A	E. Lincoln, RFC Bridge Design, Approved	0		03/29/17
E. South Ave. (739+08)		427	09/21/15	05/09/17
Geotech		147	12/08/15	07/07/16
M1M06D-GEO060F	E. South, Geotech, Field Testing & Lab work	25	12/08/15	01/13/16
M1M06D-GEO06C	E. South, Geotech, P/S and R/A DFR	50	01/14/16	03/25/16
M1M06D-GEO10C	E. South, Geotech, P/S and R/A FFR	72	03/28/16	07/07/16
Type Selection		120	09/21/15	03/04/16
M1M06D-030S	E. South, Type Selection Report, P/S	62	09/21/15	12/18/15
M1M06D-030R	E. South, Type Selection Report, Authority R/A	20	12/21/15	01/20/16
M1M06D-030AGN	E. South, Type Selection Report, 3rd Party R/A	20	12/21/15	01/09/16
M1M06D-030CMN	E. South, Type Selection Report, Comments Resolution	10	01/21/16	02/03/16
M1M06D-030TYPE	E. South, Type Selection Report, Meeting and Approval	21	02/04/16	03/04/16
BNSF Design Package		302	03/07/16	05/02/17
M1M06D-030BNS	E. South, BNSF Design Package, P/S	20	03/07/16	04/01/16
M1M06D-030BNS	E. South, BNSF Design Package, BNSF R/A	45	04/04/16	06/06/16
M1M06D-030CPUC	E. South, BNSF Design Package, CPUC R/A	330	06/07/16	05/02/17
60% Design		120	04/04/16	09/16/16
M1M06D-060S	E. South, 60% Bridge Design, P/S	77	04/04/16	07/21/16
M1M06D-060R	E. South, 60% Bridge Design, Authority R/A	30	07/22/16	09/01/16
M1M06D-060AGN	E. South, 60% Bridge Design, 3rd Party R/A	30	07/22/16	08/20/16
M1M06D-060IND	E. South, 60% Bridge Design, Independent Check	30	07/22/16	09/01/16
M1M06D-060CMNT	E. South, 60% Bridge Design, Comments Resolution	10	09/02/16	09/16/16
90% Design		117	09/19/16	02/28/17
M1M06D-090S	E. South, 90% Bridge Design, P/S	70	09/19/16	12/29/16
M1M06D-090R	E. South, 90% Bridge Design, Authority R/A	30	12/30/16	02/13/17
M1M06D-090AGN	E. South, 90% Bridge Design, 3rd Party R/A	30	12/30/16	01/28/17
M1M06D-090CMNT	E. South, 90% Bridge Design, Comments Resolution	10	02/14/17	02/28/17
RFC		50	03/01/17	05/09/17
M1M06D-100S	E. South, RFC Bridge Design-P/S	35	03/01/17	04/18/17
M1M06D-100R	E. South, RFC Bridge Design, Authority R/A	15	04/19/17	05/09/17
M1M06D-100A	E. South, RFC Bridge Design, Approved	0		05/09/17
E. Floral Ave. (898+70)		428	07/01/15	02/17/17
Geotech		147	10/01/15	05/03/16
M1M11D-GEO060F	E. Floral, Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M1M11D-GEO06C	E. Floral, Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M1M11D-GEO10C	E. Floral, Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M1M11D-030S	E. Floral, Type Selection Report, P/S	62	07/01/15	09/28/15
M1M11D-030R	E. Floral, Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M1M11D-030AGN	E. Floral, Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15

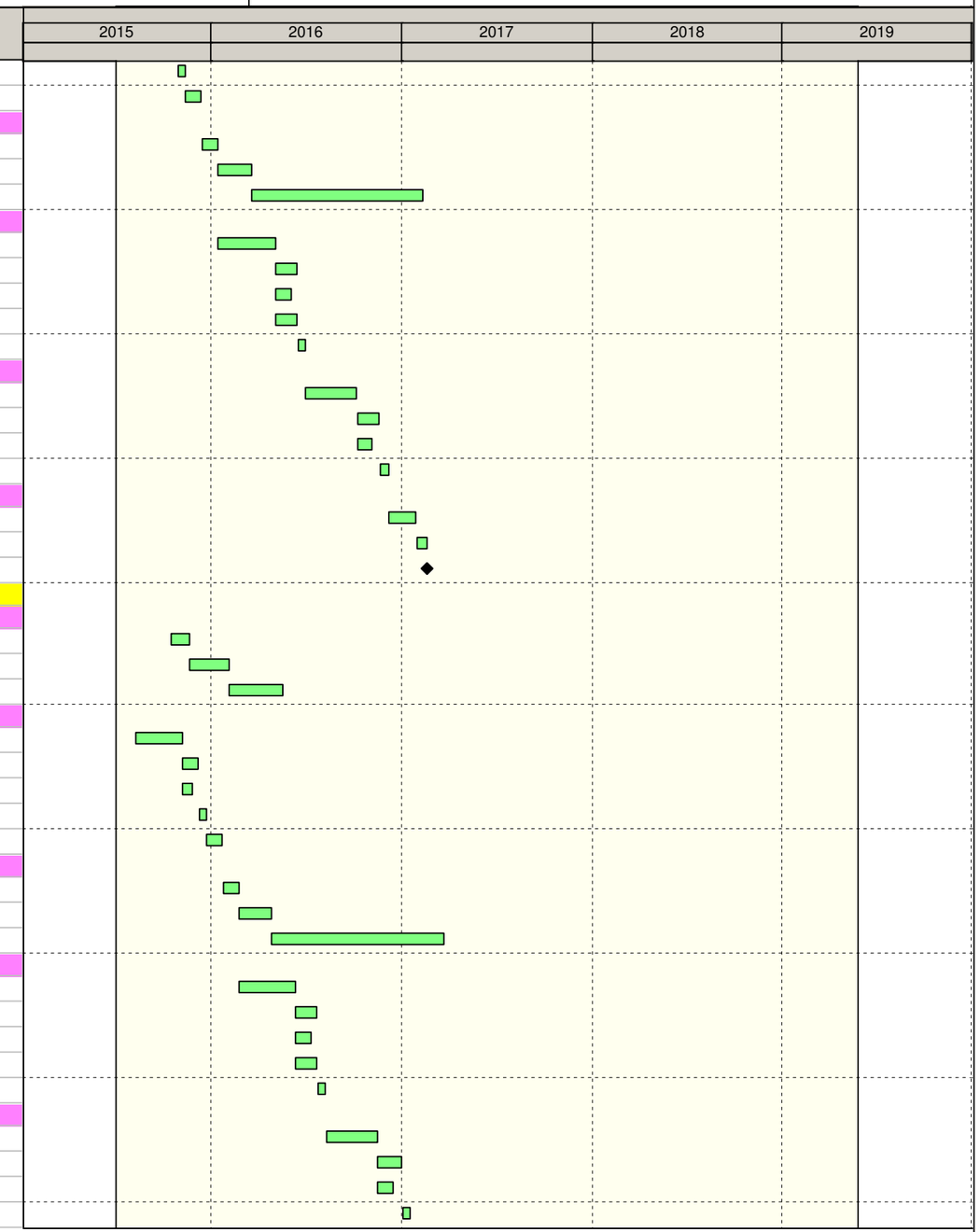


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1M11D-030CMN	E. Floral, Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M1M11D-030TYPE	E. Floral, Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
BNSF Design Package		305	12/14/15	02/10/17
M1M11D-030BNS	E. Floral, BNSF Design Package, P/S	20	12/14/15	01/12/16
M1M11D-030BNS	E. Floral, BNSF Design Package, BNSF R/A	45	01/13/16	03/17/16
M1M11D-030CPUC	E. Floral, BNSF Design Package, CPUC R/A	330	03/18/16	02/10/17
60% Design		120	01/13/16	06/28/16
M1M11D-060S	E. Floral, 60% Bridge Design, P/S	77	01/13/16	05/02/16
M1M11D-060R	E. Floral, 60% Bridge Design, Authority R/A	30	05/03/16	06/14/16
M1M11D-060AGN	E. Floral, 60% Bridge Design, 3rd Party R/A	30	05/03/16	06/01/16
M1M11D-060IND	E. Floral, 60% Bridge Design, Independent Check	30	05/03/16	06/14/16
M1M11D-060CMNT	E. Floral, 60% Bridge Design, Comments Resolution	10	06/15/16	06/28/16
90% Design		115	06/29/16	12/06/16
M1M11D-090S	E. Floral, 90% Bridge Design, P/S	70	06/29/16	10/06/16
M1M11D-090R	E. Floral, 90% Bridge Design, Authority R/A	30	10/07/16	11/18/16
M1M11D-090AGN	E. Floral, 90% Bridge Design, 3rd Party R/A	30	10/07/16	11/05/16
M1M11D-090CMNT	E. Floral, 90% Bridge Design, Comments Resolution	10	11/21/16	12/06/16
RFC		50	12/07/16	02/17/17
M1M11D-100S	E. Floral, RFC Bridge Design-P/S	35	12/07/16	01/27/17
M1M11D-100R	E. Floral, RFC Bridge Design, Authority R/A	15	01/30/17	02/17/17
M1M11D-100A	E. Floral, RFC Bridge Design, Approved	0		02/17/17
E. Manning Ave. (792+00)		428	08/10/15	03/29/17
Geotech		147	10/16/15	05/17/16
M1M08D-GEO060F	E. Manning, Geotech, Field Testing & Lab work	25	10/16/15	11/19/15
M1M08D-GEO060	E. Manning, Geotech, P/S and R/A DFR	50	11/20/15	02/04/16
M1M08D-GEO100	E. Manning, Geotech, P/S and R/A FFR	72	02/05/16	05/17/16
Type Selection		120	08/10/15	01/22/16
M1M08D-030S	E. Manning, Type Selection Report, P/S	62	08/10/15	11/05/15
M1M08D-030R	E. Manning, Type Selection Report, Authority R/A	20	11/06/15	12/07/15
M1M08D-030AGN	E. Manning, Type Selection Report, 3rd Party R/A	20	11/06/15	11/25/15
M1M08D-030CMN	E. Manning, Type Selection Report, Comments Resolution	10	12/08/15	12/21/15
M1M08D-030TYPE	E. Manning, Type Selection Report, Meeting and Approval	21	12/22/15	01/22/16
BNSF Design Package		302	01/25/16	03/21/17
M1M08D-030BNS	E. Manning, BNSF Design Package, P/S	20	01/25/16	02/22/16
M1M08D-030BNS	E. Manning, BNSF Design Package, BNSF R/A	45	02/23/16	04/25/16
M1M08D-030CPUC	E. Manning, BNSF Design Package, CPUC R/A	330	04/26/16	03/21/17
60% Design		119	02/23/16	08/05/16
M1M08D-060S	E. Manning, 60% Bridge Design, P/S	77	02/23/16	06/09/16
M1M08D-060R	E. Manning, 60% Bridge Design, Authority R/A	30	06/10/16	07/22/16
M1M08D-060AGN	E. Manning, 60% Bridge Design, 3rd Party R/A	30	06/10/16	07/09/16
M1M08D-060IND	E. Manning, 60% Bridge Design, Independent Check	30	06/10/16	07/22/16
M1M08D-060CMNT	E. Manning, 60% Bridge Design, Comments Resolution	10	07/25/16	08/05/16
90% Design		117	08/08/16	01/17/17
M1M08D-090S	E. Manning, 90% Bridge Design, P/S	70	08/08/16	11/15/16
M1M08D-090R	E. Manning, 90% Bridge Design, Authority R/A	30	11/16/16	12/30/16
M1M08D-090AGN	E. Manning, 90% Bridge Design, 3rd Party R/A	30	11/16/16	12/15/16
M1M08D-090CMNT	E. Manning, 90% Bridge Design, Comments Resolution	10	01/03/17	01/17/17

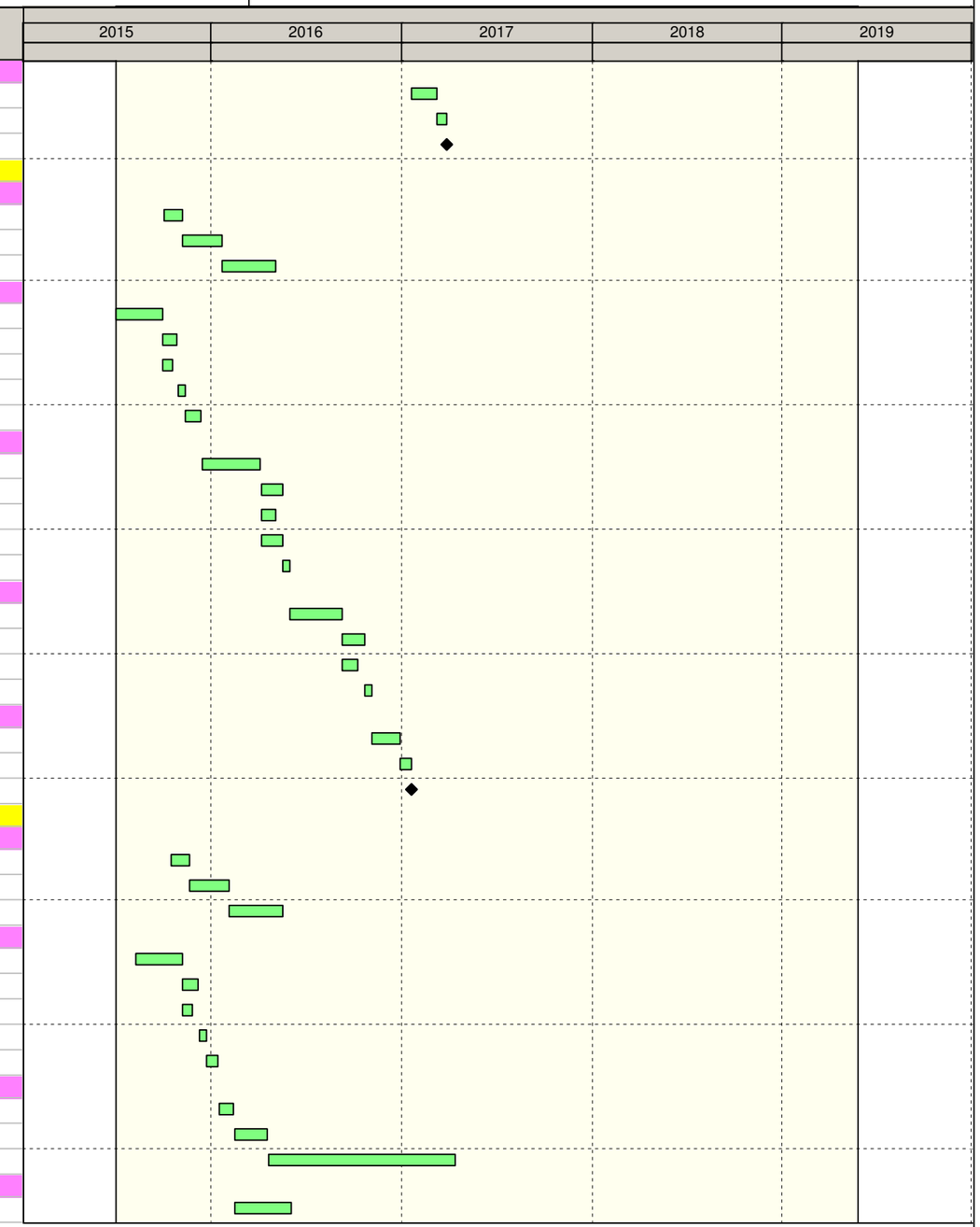


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
RFC		50	01/18/17	03/29/17
M1M08D-100S	E. Manning, RFC Bridge Design-P/S	35	01/18/17	03/08/17
M1M08D-100R	E. Manning, RFC Bridge Design, Authority R/A	15	03/09/17	03/29/17
M1M08D-100A	E. Manning, RFC Bridge Design, Approved	0		03/29/17
S. Clovis (1224+91)		408	07/01/15	01/20/17
Geotech		147	10/01/15	05/03/16
M1H10D-GEO060F	S. Clovis, Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M1H10D-GEO060	S. Clovis, Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M1H10D-GEO100	S. Clovis, Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M1H10D-030S	S. Clovis, Type Selection Report, P/S	62	07/01/15	09/28/15
M1H10D-030R	S. Clovis, Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M1H10D-030AGN	S. Clovis, Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M1H10D-030CMN	S. Clovis, Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M1H10D-030TYPE	S. Clovis, Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		122	12/14/15	05/31/16
M1H10D-060S	S. Clovis, 60% Bridge Design, P/S	77	12/14/15	04/04/16
M1H10D-060R	S. Clovis, 60% Bridge Design, Authority R/A	30	04/05/16	05/16/16
M1H10D-060AGN	S. Clovis, 60% Bridge Design, 3rd Party R/A	30	04/05/16	05/04/16
M1H10D-060IND	S. Clovis, 60% Bridge Design, Independent Check	30	04/05/16	05/16/16
M1H10D-060CMNT	S. Clovis, 60% Bridge Design, Comments Resolution	10	05/17/16	05/31/16
90% Design		112	06/01/16	11/03/16
M1H10D-090S	S. Clovis, 90% Bridge Design, P/S	70	06/01/16	09/08/16
M1H10D-090R	S. Clovis, 90% Bridge Design, Authority R/A	30	09/09/16	10/20/16
M1H10D-090AGN	S. Clovis, 90% Bridge Design, 3rd Party R/A	30	09/09/16	10/08/16
M1H10D-090CMNT	S. Clovis, 90% Bridge Design, Comments Resolution	10	10/21/16	11/03/16
RFC		50	11/04/16	01/20/17
M1H10D-100S	S. Clovis, RFC Bridge Design-P/S	35	11/04/16	12/28/16
M1H10D-100R	S. Clovis, RFC Bridge Design, Authority R/A	15	12/29/16	01/20/17
M1H10D-100A	S. Clovis, RFC Bridge Design, Approved	0		01/20/17
Nebraska Ave. (955+95)		439	08/10/15	04/13/17
Geotech		147	10/16/15	05/17/16
M1M14D-GEO060F	Nebraska, Geotech, Field Testing & Lab work	25	10/16/15	11/19/15
M1M14D-GEO060	Nebraska, Geotech, P/S and R/A DFR	50	11/20/15	02/04/16
M1M14D-GEO100	Nebraska, Geotech, P/S and R/A FFR	72	02/05/16	05/17/16
Type Selection		114	08/10/15	01/14/16
M1M14D-030S	Nebraska, Type Selection Report, P/S	62	08/10/15	11/05/15
M1M14D-030R	Nebraska, Type Selection Report, Authority R/A	20	11/06/15	12/07/15
M1M14D-030AGN	Nebraska, Type Selection Report, 3rd Party R/A	20	11/06/15	11/25/15
M1M14D-030CMN	Nebraska, Type Selection Report, Comments Resolution	10	12/08/15	12/21/15
M1M14D-030TYPE	Nebraska, Type Selection Report, Meeting and Approval	16	12/22/15	01/14/16
BNSF Design Package		325	01/15/16	04/13/17
M1M14D-030BNS	Nebraska, BNSF Design Package, P/S	20	01/15/16	02/12/16
M1M14D-030BNS	Nebraska, BNSF Design Package, BNSF R/A	45	02/16/16	04/18/16
M1M14D-030CPUC	Nebraska, BNSF Design Package, CPUC R/A	360	04/19/16	04/13/17
60% Design		119	02/16/16	07/29/16
M1M14D-060S	Nebraska, 60% Bridge Design, P/S	77	02/16/16	06/02/16

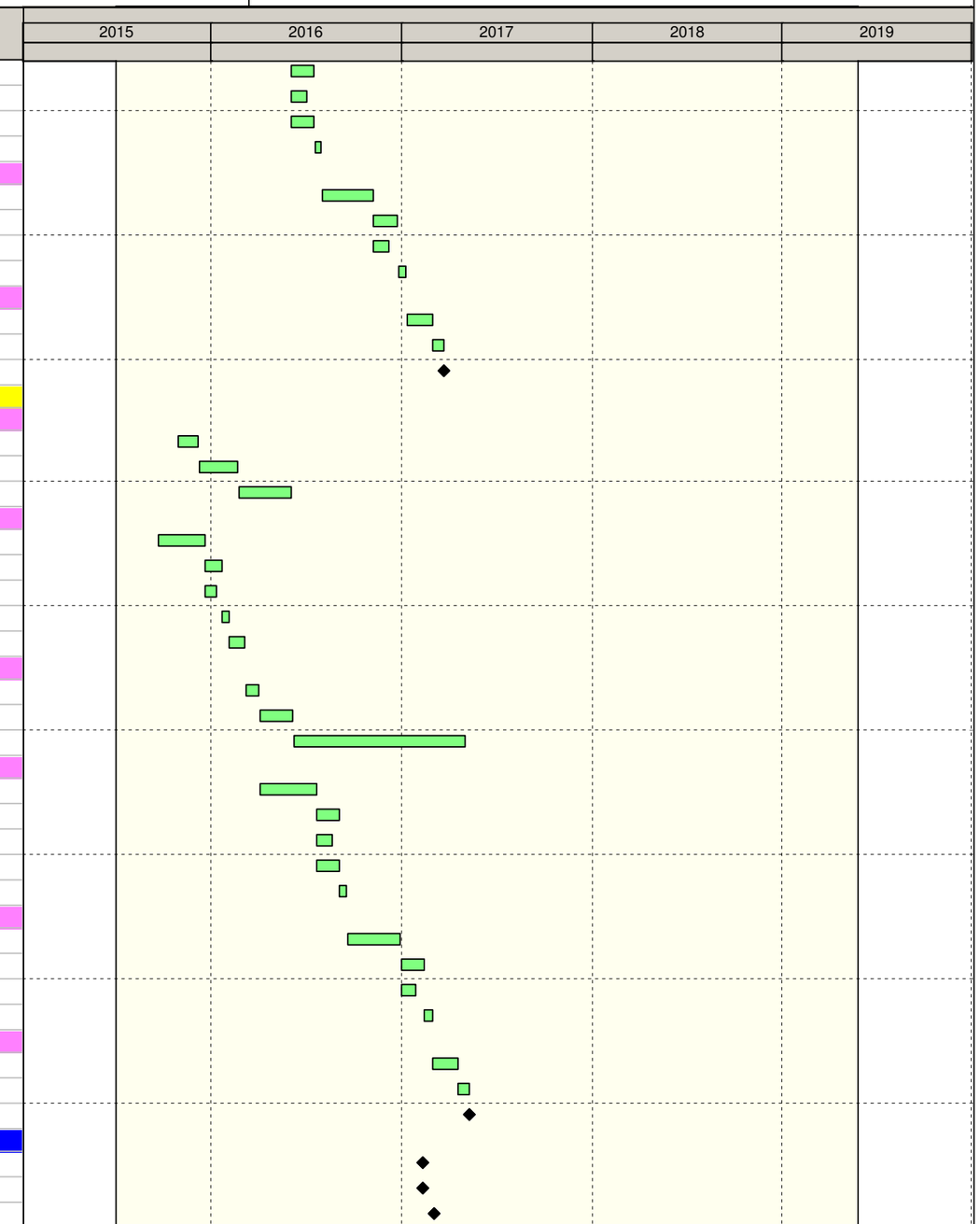


- Remaining Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1M14D-060R	Nebraska, 60% Bridge Design, Authority R/A	30	06/03/16	07/15/16
M1M14D-060AGN	Nebraska, 60% Bridge Design, 3rd Party R/A	30	06/03/16	07/02/16
M1M14D-060IND	Nebraska, 60% Bridge Design, Independent Check	30	06/03/16	07/15/16
M1M14D-060CMNT	Nebraska, 60% Bridge Design, Comments Resolution	10	07/18/16	07/29/16
90% Design		116	08/01/16	01/09/17
M1M14D-090S	Nebraska, 90% Bridge Design, P/S	70	08/01/16	11/07/16
M1M14D-090R	Nebraska, 90% Bridge Design, Authority R/A	30	11/08/16	12/22/16
M1M14D-090AGN	Nebraska, 90% Bridge Design, 3rd Party R/A	30	11/08/16	12/07/16
M1M14D-090CMNT	Nebraska, 90% Bridge Design, Comments Resolution	10	12/26/16	01/09/17
RFC		50	01/10/17	03/22/17
M1M14D-100S	Nebraska, RFC Bridge Design-P/S	35	01/10/17	03/01/17
M1M14D-100R	Nebraska, RFC Bridge Design, Authority R/A	15	03/02/17	03/22/17
M1M14D-100A	Nebraska, RFC Bridge Design, Approved	0		03/22/17
E. Mountain Ave. (1007+80)		427	09/21/15	05/09/17
Geotech		147	10/30/15	06/01/16
M1M16D-GEO060F	E. Mountain, Geotech, Field Testing & Lab work	25	10/30/15	12/07/15
M1M16D-GEO06C	E. Mountain, Geotech, P/S and R/A DFR	50	12/08/15	02/19/16
M1M16D-GEO10C	E. Mountain, Geotech, P/S and R/A FFR	72	02/22/16	06/01/16
Type Selection		120	09/21/15	03/04/16
M1M16D-030S	E. Mountain, Type Selection Report, P/S	62	09/21/15	12/18/15
M1M16D-030R	E. Mountain, Type Selection Report, Authority R/A	20	12/21/15	01/20/16
M1M16D-030AGN	E. Mountain, Type Selection Report, 3rd Party R/A	20	12/21/15	01/09/16
M1M16D-030CMN	E. Mountain, Type Selection Report, Comments Resolution	10	01/21/16	02/03/16
M1M16D-030TYPE	E. Mountain, Type Selection Report, Meeting and Approval	21	02/04/16	03/04/16
BNSF Design Package		302	03/07/16	05/02/17
M1M16D-030BNS	E. Mountain, BNSF Design Package, P/S	20	03/07/16	04/01/16
M1M16D-030BNS	E. Mountain, BNSF Design Package, BNSF R/A	45	04/04/16	06/06/16
M1M16D-030CPUC	E. Mountain, BNSF Design Package, CPUC R/A	330	06/07/16	05/02/17
60% Design		120	04/04/16	09/16/16
M1M16D-060S	E. Mountain, 60% Bridge Design, P/S	77	04/04/16	07/21/16
M1M16D-060R	E. Mountain, 60% Bridge Design, Authority R/A	30	07/22/16	09/01/16
M1M16D-060AGN	E. Mountain, 60% Bridge Design, 3rd Party R/A	30	07/22/16	08/20/16
M1M16D-060IND	E. Mountain, 60% Bridge Design, Independent Check	30	07/22/16	09/01/16
M1M16D-060CMNT	E. Mountain, 60% Bridge Design, Comments Resolution	10	09/02/16	09/16/16
90% Design		117	09/19/16	02/28/17
M1M16D-090S	E. Mountain, 90% Bridge Design, P/S	70	09/19/16	12/29/16
M1M16D-090R	E. Mountain, 90% Bridge Design, Authority R/A	30	12/30/16	02/13/17
M1M16D-090AGN	E. Mountain, 90% Bridge Design, 3rd Party R/A	30	12/30/16	01/28/17
M1M16D-090CMNT	E. Mountain, 90% Bridge Design, Comments Resolution	10	02/14/17	02/28/17
RFC		50	03/01/17	05/09/17
M1M16D-100S	E. Mountain, RFC Bridge Design-P/S	35	03/01/17	04/18/17
M1M16D-100R	E. Mountain, RFC Bridge Design, Authority R/A	15	04/19/17	05/09/17
M1M16D-100A	E. Mountain, RFC Bridge Design, Approved	0		05/09/17
Railroad & CPUC Submittals		99	02/10/17	07/05/17
M1M03D-030CPUCA	E. Adams, CPUC Approval	0		02/10/17
M1M11D-030CPUCA	E. Floral, CPUC Approval	0		02/10/17
M1H26D-030CPUCA	Bridge H-11(9th Ave Box Girder), CPUC Approval	0		03/03/17

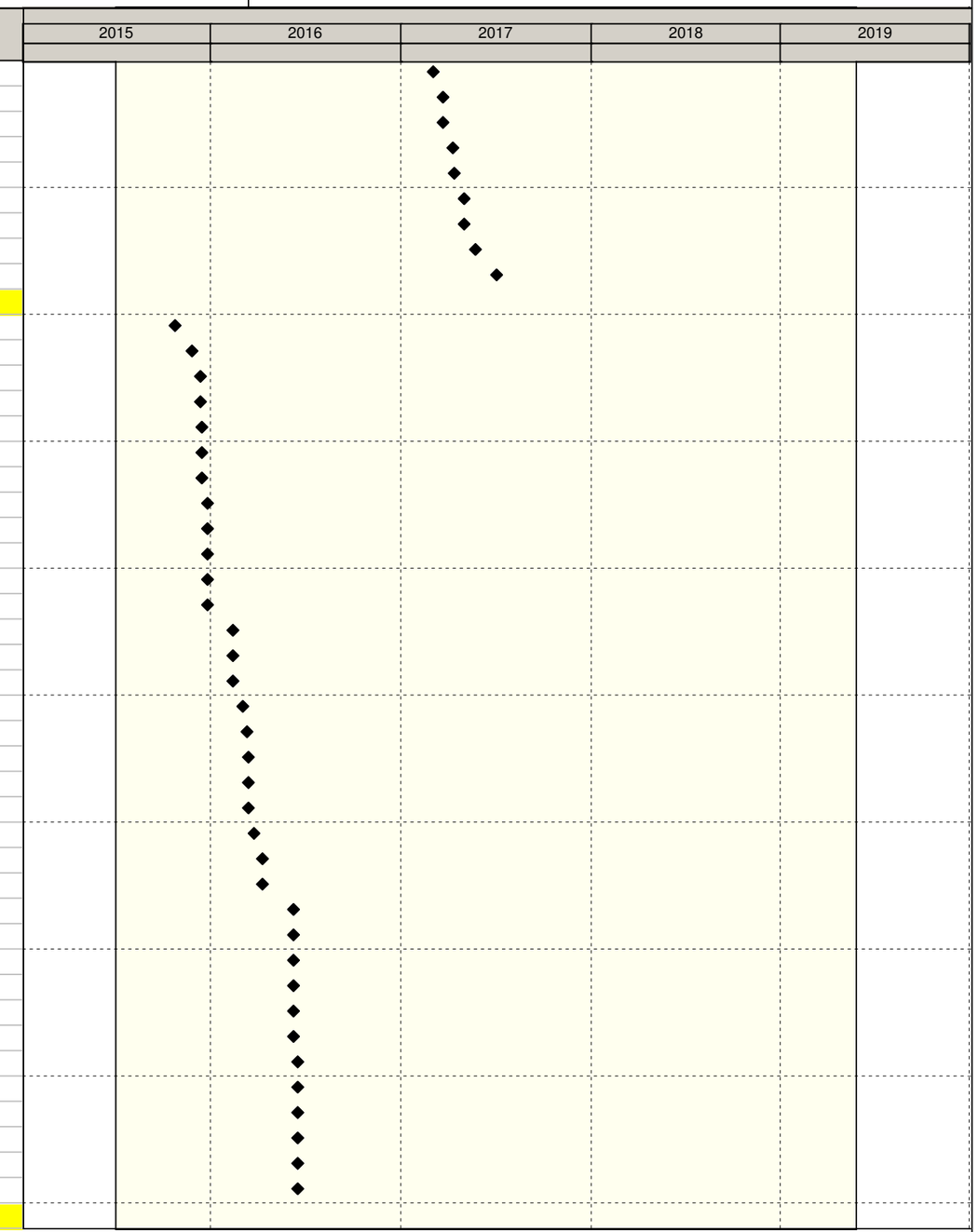


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1H03D-030CPUCA	Bridge H-1(Conejo Box Girder), CPUC Approval	0		03/03/17
M1M08D-030CPUCA	E. Manning, CPUC Approval	0		03/21/17
M1M01D-030CPUCA	E. Lincoln, CPUC Approval	0		03/21/17
M1H28D-030CPUCA	Bridge H-12(Cairo PC Box Beam), CPUC Approval	0		04/11/17
M1M14D-030CPUCA	Nebraska, CPUC Approval	0		04/13/17
M1M06D-030CPUCA	E. South, CPUC Approval	0		05/02/17
M1M16D-030CPUCA	E. Mountain, CPUC Approval	0		05/02/17
M1H07D-030CPUCA	Bridge H-4(S.Peach Ave, Box Girder), CPUC Approval	0		05/23/17
M1H04D-030CPUCA	Bridge H-2(BNSF Straddle), CPUC Approval	0		07/05/17
ROW		235	10/25/15	06/16/16
ROWG18	ROW Group 18 Proposed Parcels Availability (ROD Base Date+485)	0	10/25/15	
ROWG01	ROW Group 1 Proposed Parcels Availability (ROD Base Date+515)	0	11/24/15	
ROWG19	ROW Group 19 Proposed Parcels Availability (ROD Base Date+532)	0	12/11/15	
ROWG19A	ROW Group 19 Proposed Parcels Availability (ROD Base Date+532) (H-14)	0	12/11/15	
ROWG02	ROW Group 2 Proposed Parcels Availability (ROD Base Date+535)	0	12/14/15	
ROWG07	ROW Group 7 Proposed Parcels Availability (ROD Base Date+535)	0	12/14/15	
ROWG09	ROW Group 9 Proposed Parcels Availability (ROD Base Date+535)	0	12/14/15	
ROWG03	ROW Group 3 Proposed Parcels Availability (ROD Base Date+545)	0	12/24/15	
ROWG05	ROW Group 5 Proposed Parcels Availability (ROD Base Date+545)	0	12/24/15	
ROWG04	ROW Group 4 Proposed Parcels Availability (ROD Base Date+545)	0	12/24/15	
ROWG06	ROW Group 6 Proposed Parcels Availability (ROD Base Date+545)	0	12/24/15	
ROWG08	ROW Group 8 Proposed Parcels Availability (ROD Base Date+545)	0	12/24/15	
ROWG10	ROW Group 10 Proposed Parcels Availability (ROD Base Date+595)	0	02/12/16	
ROWG11	ROW Group 11 Proposed Parcels Availability (ROD Base Date+595)	0	02/12/16	
ROWG13	ROW Group 13 Proposed Parcels Availability (ROD Base Date+595) (Conejo)	0	02/12/16	
ROWG12	ROW Group 12 Proposed Parcels Availability (ROD Base Date+615)	0	03/03/16	
ROWG13RR	ROW Group 13 RR Availability (ROD Base Date+622)	0	03/10/16	
ROWG14	ROW Group 14 Proposed Parcels Availability (ROD Base Date+625)	0	03/13/16	
ROWG15	ROW Group 15 Proposed Parcels Availability (ROD Base Date+625) (Elkhorn)	0	03/13/16	
ROWG17	ROW Group 17 Proposed Parcels Availability (ROD Base Date+625) (E. Davis)	0	03/13/16	
ROWG16	ROW Group 16 Proposed Parcels Availability (ROD Base Date+635) (Fowler)	0	03/23/16	
ROWG11RR	ROW Group 11 RR Availability (ROD Base Date+652) (Nebraska)	0	04/09/16	
ROWG12RR	ROW Group 12 RR Availability (ROD Base Date+652) (E. Mountain)	0	04/09/16	
ROWG04RR	ROW Group 4 RR Availability (ROD Base Date+712) (Adams)	0	06/08/16	
ROWG05RR	ROW Group 5 RR Availability (ROD Base Date+712)	0	06/08/16	
ROWG06RR	ROW Group 6 RR Availability (ROD Base Date+712) (E. South)	0	06/08/16	
ROWG07RR	ROW Group 7 RR Availability (ROD Base Date+712)	0	06/08/16	
ROWG08RR	ROW Group 8 RR Availability (ROD Base Date+712) (E. Manning)	0	06/08/16	
ROWG09RR	ROW Group 9 RR Availability (ROD Base Date+712)	0	06/08/16	
ROWG01RR	ROW Group 1 RR Availability (ROD Base Date+720)	0	06/16/16	
ROWG02RR	ROW Group 2 RR Availability (ROD Base Date+720) (Lincoln)	0	06/16/16	
ROWG03RR	ROW Group 3 RR Availability (ROD Base Date+720)	0	06/16/16	
ROWG10RR	ROW Group 10 RR Availability (ROD Base Date+720) (E. Floral)	0	06/16/16	
ROWG14RR	ROW Group 14 RR Availability (ROD Base Date+720) (Conejo & S. Clovis)	0	06/16/16	
ROWG14RRA	ROW Group 14 RR Availability (ROD Base Date+720) (Conejo & S. Clovis)	0	06/16/16	
Construction		640	11/15/16	04/29/19

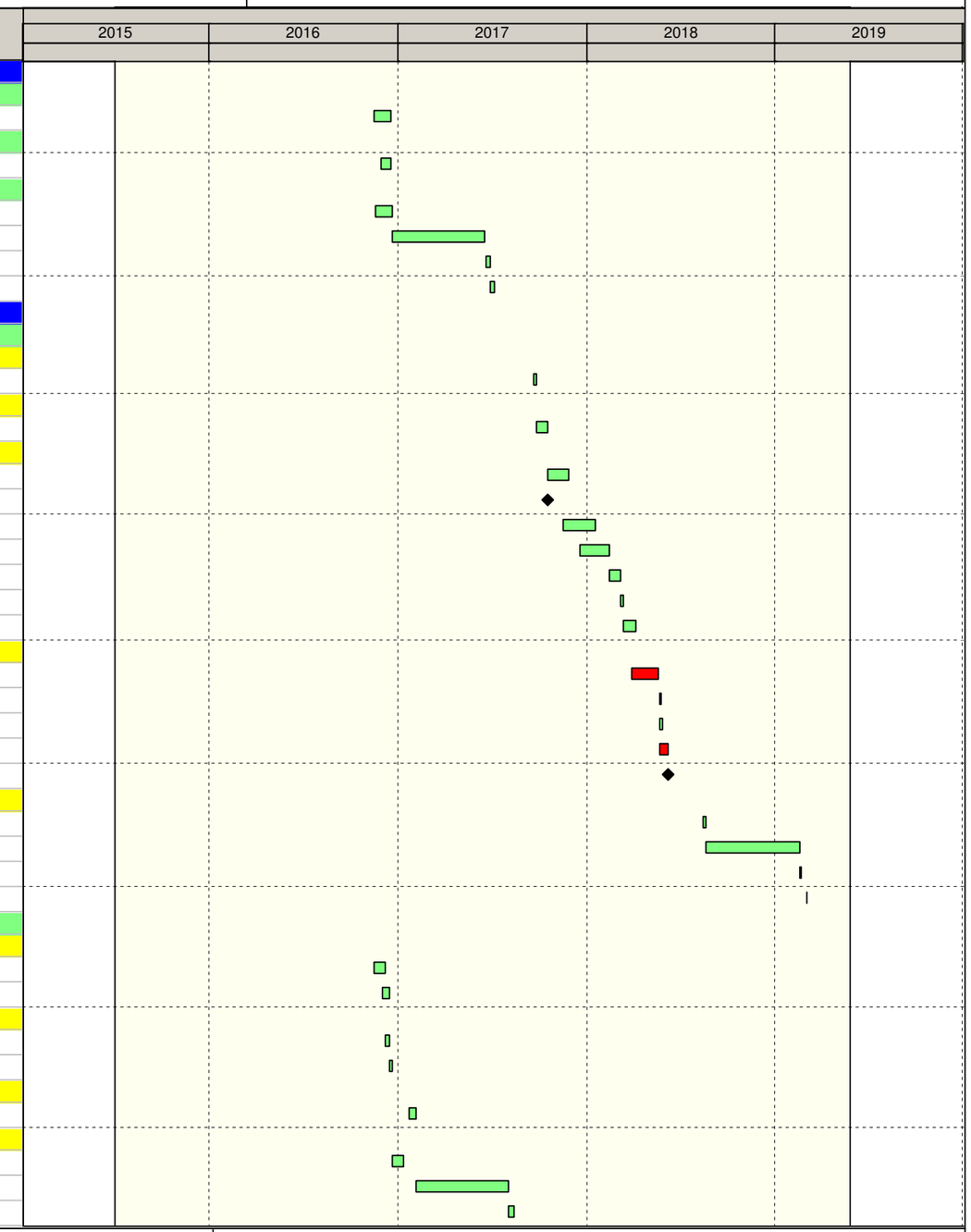


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
Alignment F1 (STA 2065+00 to 2305+00)		167	11/15/16	07/05/17
Grubb and Demolition		22	11/15/16	12/16/16
M1F01C-1000	F1-587+30 > F1-627+07, Clear & Grubb	22	11/15/16	12/16/16
RCBC & Irrigation Relocation		15	11/28/16	12/16/16
M1F01BCA100	F1-587+30 > F1-627+07, Prep & Set Precast Box Culverts	15	11/28/16	12/16/16
Track		165	11/17/16	07/05/17
M1F01TE-110	F1-587+30 > F1-627+07, HST Track Common Fill	22	11/17/16	12/20/16
M1F01TE-120	F1-587+30 > F1-627+07, HST Track Common Fill, Surcharge wait	180	12/21/16	06/18/17
M1F01TE-130	F1-587+30 > F1-627+07, HST Track Subgrade	8	06/19/17	06/28/17
M1F01TE-140	F1-587+30 > F1-627+07, HST Track AC	4	06/29/17	07/05/17
Alignment M-1		640	11/15/16	04/29/19
E. Lincoln Ave. (630+00 to 640+00)		379	09/20/17	03/04/19
Grubb and Demolition		5	09/20/17	09/26/17
M1M01C-1000	E. Lincoln, Clear & Grubb	5	09/20/17	09/26/17
Utilities		15	09/27/17	10/17/17
M1M01U-1010	E. Lincoln, Move Utiliities	15	09/27/17	10/17/17
Structure (3 Spans)		123	10/18/17	04/06/18
M1M01S-1020	E. Lincoln, Foundations	26	10/18/17	11/27/17
M1M01S-0001	E. Lincoln, Start Structure	0	10/18/17	
M1M01S-1040	E. Lincoln, F/R/P Columns	40	11/16/17	01/17/18
M1M01S-1050	E. Lincoln, F/R/P Bent Caps	40	12/18/17	02/14/18
M1M01S-1080	E. Lincoln, Cure Concrete for Precast	21	02/15/18	03/07/18
M1M01S-1110	E. Lincoln, Place Precast Girders	4	03/08/18	03/13/18
M1M01S-1120	E. Lincoln, Deck Rebar/Forms & Pour	18	03/14/18	04/06/18
Roadway		51	03/29/18	06/08/18
M1M01S-1010	E. Lincoln, Build Embankments to Final Grade	38	03/29/18	05/21/18
M1M01S-1130	E. Lincoln, Deck & Road Pavements	4	05/22/18	05/25/18
M1M01S-1100	E. Lincoln, Hydroseed Embankments	5	05/22/18	05/29/18
M1M01S-1140	E. Lincoln, Landscape/Permanent BMPS/Fencing	11	05/24/18	06/08/18
M1M01S-9000	E. Lincoln, Open for Traffic & Ready for Track work	0		06/08/18
Track		144	08/15/18	03/04/19
M1M01TE-110	E. Lincoln (M-630+26 > M-640+00), HST Track Common Fill	5	08/15/18	08/21/18
M1M01TE-120	E. Lincoln (M-630+26 > M-640+00), HST Track Common Fill, Surcharge Wait	180	08/22/18	02/17/19
M1M01TE-130	E. Lincoln (M-630+26 > M-640+00), HST Track Subgrade	2	02/19/19	02/20/19
M1M01TE-140	E. Lincoln (M-630+26 > M-640+00), HST Track AC	1	03/04/19	03/04/19
E. Lincoln Ave. to E. Adams (640+00 to 680+00)		199	11/15/16	08/18/17
Grubb and Demolition		20	11/15/16	12/14/16
M1M02C-1000	M-640+00 > M-680+00, Clear & Grubb	15	11/15/16	12/07/16
M1M02C-110	M-640+00 > M-680+00, Demolition	10	12/01/16	12/14/16
Access Road		10	12/08/16	12/21/16
M1M02AR100	M-660+00 > M-668+00 , Access Road, West Side	5	12/08/16	12/14/16
M1M02AR110	M-660+00 > M-668+00 , Access Road, West Side	5	12/15/16	12/21/16
RCBC & Irrigation Relocation		10	01/23/17	02/03/17
M1M02BCA100	M-640+00 > M-680+00, Prep & Set Precast Box Culverts	10	01/23/17	02/03/17
Track		173	12/21/16	08/18/17
M1M02TE-110	M-640+00 > M-680+00, HST Track Common Fill	15	12/21/16	01/12/17
M1M02TE-120	M-640+00 > M-680+00, HST Track Common Fill, Surcharge Wait	180	02/04/17	08/02/17
M1M02TE-130	M-640+00 > M-680+00, HST Track Subgrade	8	08/03/17	08/14/17



Remaining Level of Effort
Actual Work
Remaining Work
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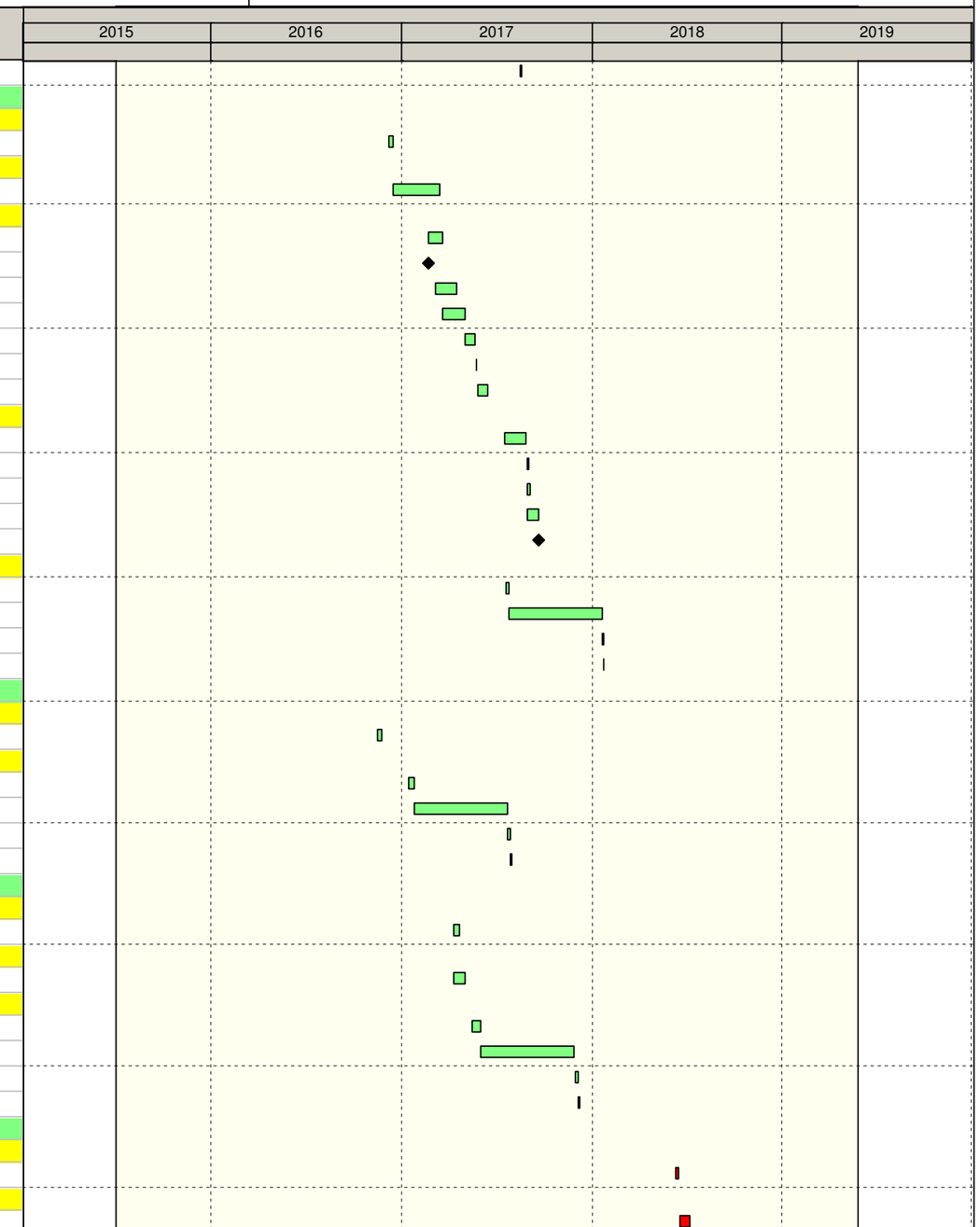
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1M02TE-140	M-640+00 > M-680+00, HST Track AC	4	08/15/17	08/18/17
E. Adams Ave. (680+00 to 690+00)		295	12/08/16	01/24/18
Grubb and Demolition		5	12/08/16	12/14/16
M1M03C-1000	E. Adams, Clear & Grubb	5	12/08/16	12/14/16
Utilities		60	12/15/16	03/14/17
M1M03U-1010	E. Adams, Move Utiliities (PG&E Gas Lines)	60	12/15/16	03/14/17
Structure (2 Spans)		82	02/21/17	06/14/17
M1M03S-1020	E. Adams, Foundations	20	02/21/17	03/20/17
M1M03S-0001	E. Adams, Start Structure	0	02/21/17	
M1M03S-1040	E. Adams, F/R/P Columns	30	03/07/17	04/17/17
M1M03S-1050	E. Adams, F/R/P Bent Caps	30	03/21/17	05/01/17
M1M03S-1080	E. Adams, Cure Concrete for Precast	21	05/02/17	05/22/17
M1M03S-1110	E. Adams, Place Precast Girders	3	05/23/17	05/25/17
M1M03S-1120	E. Adams, Deck Rebar/Forms & Pour	13	05/26/17	06/14/17
Roadway		45	07/18/17	09/19/17
M1M03S-1090	E. Adams, Build Embankments to Final Grade	30	07/18/17	08/28/17
M1M03S-1130	E. Adams, Deck & Road Pavements	4	08/29/17	09/01/17
M1M03S-1100	E. Adams, Hydroseed Embankments	5	08/29/17	09/05/17
M1M03S-1140	E. Adams, Landscape/Permanent BMPS/Fencing	13	08/31/17	09/19/17
M1M03S-9000	E. Adams, Open for Traffic & Ready for Track work	0		09/19/17
Track		136	07/19/17	01/24/18
M1M03TE-110	E. Adams (M-680+00 > M-690+00), HST Track Common Fill	5	07/19/17	07/25/17
M1M03TE-120	E. Adams (M-680+00 > M-690+00), HST Track Common Fill, Surcharge Wait	180	07/26/17	01/21/18
M1M03TE-130	E. Adams (M-680+00 > M-690+00), HST Track Subgrade	2	01/22/18	01/23/18
M1M03TE-140	E. Adams (M-680+00 > M-690+00), HST Track AC	1	01/24/18	01/24/18
E. Adams to BNSF Re-Align (690+00 to 710+00)		185	11/15/16	07/31/17
Grubb and Demolition		6	11/15/16	11/22/16
M1M04C-1000	M-690+00 > M-710+00, Clear & Grubb	6	11/15/16	11/22/16
Track		142	01/13/17	07/31/17
M1M04TE-110	M-690+00 > M-710+00, HST Track Common Fill	7	01/13/17	01/24/17
M1M04TE-120	M-690+00 > M-710+00, HST Track Common Fill, Surcharge Wait	180	01/25/17	07/23/17
M1M04TE-130	M-690+00 > M-710+00, HST Track Subgrade	4	07/24/17	07/27/17
M1M04TE-140	M-690+00 > M-710+00, HST Track AC	2	07/28/17	07/31/17
BNSF Re-Align to E. South Ave(710+00 to 735+00)		175	04/10/17	12/08/17
Grubb and Demolition		9	04/10/17	04/20/17
M1M05C-1000	M-710+00 > M-735+00, Clear & Grubb	9	04/10/17	04/20/17
RCBC & Irrigation Relocation		15	04/12/17	05/02/17
M1M05BCA-100	M-710+00 > M-735+00, Prep/Place Precast Culvert and Canal/Ditch Work	15	04/12/17	05/02/17
Track		149	05/16/17	12/08/17
M1M05TE-110	M-710+00 > M-735+00, HST Track Common Fill	12	05/16/17	06/01/17
M1M05TE-120	M-710+00 > M-735+00, HST Track Common Fill, Surcharge Wait	180	06/02/17	11/28/17
M1M05TE-130	M-710+00 > M-735+00, HST Track Subgrade	5	11/29/17	12/05/17
M1M05TE-140	M-710+00 > M-735+00, HST Track AC	3	12/06/17	12/08/17
E. South Ave. (735+00 to 745+00)		231	06/11/18	04/29/19
Grubb and Demolition		5	06/11/18	06/15/18
M1M06C-1000	E. South, Clear & Grubb	5	06/11/18	06/15/18
Utilities		15	06/18/18	07/09/18
M1M06U-1010	E. South, Move Utiliities	15	06/18/18	07/09/18



Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
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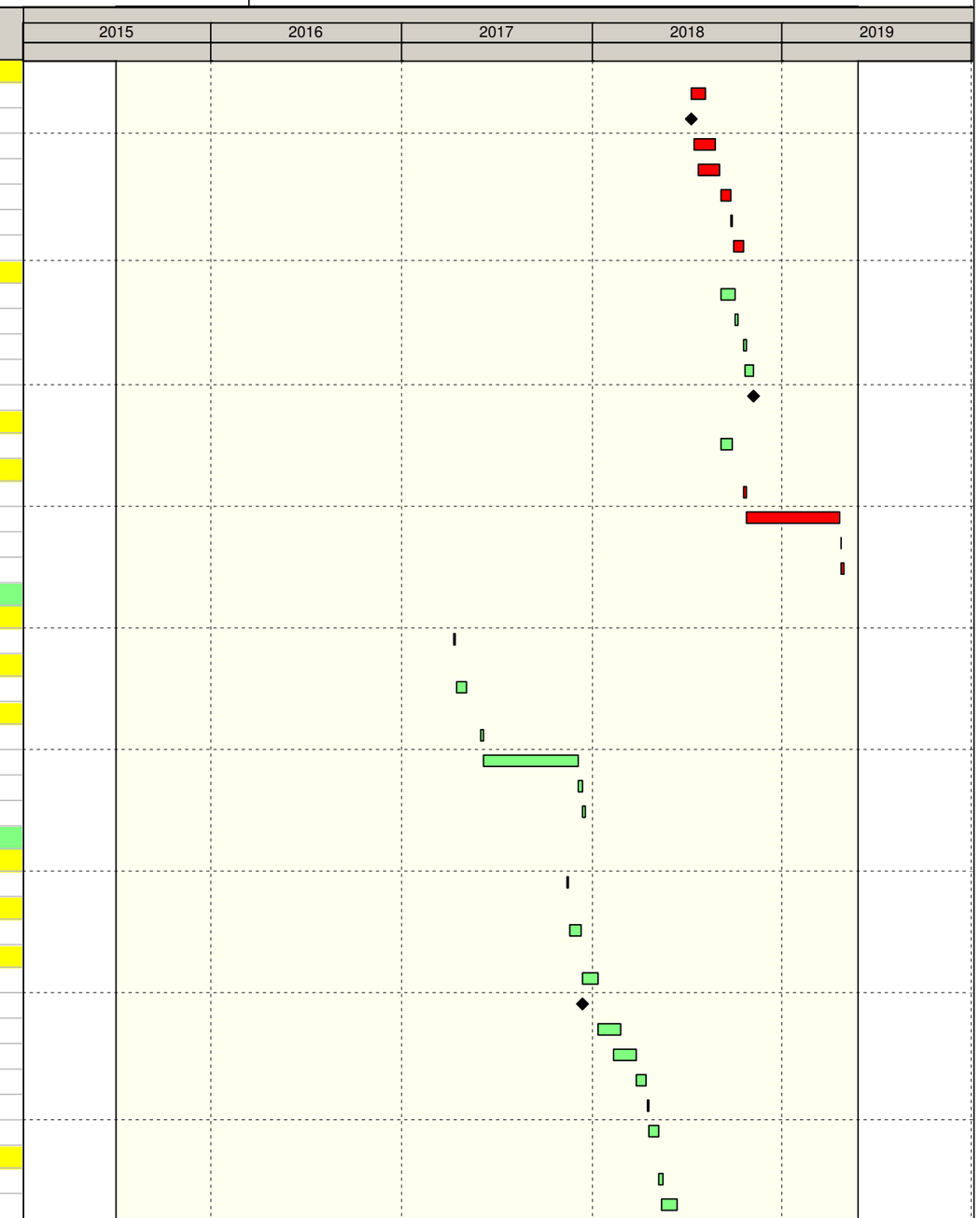
Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
Structure (2 Spans)		73	07/10/18	10/18/18
M1M06S-1020	E. South, Foundations	20	07/10/18	08/06/18
M1M06S-0001	E. South, Start Structure	0	07/10/18	
M1M06S-1040	E. South, F/R/P Columns	30	07/17/18	08/27/18
M1M06S-1050	E. South, F/R/P Bent Caps	30	07/24/18	09/04/18
M1M06S-1080	E. South, Cure Concrete for Precast	21	09/05/18	09/25/18
M1M06S-1110	E. South, Place Precast Girders	3	09/26/18	09/28/18
M1M06S-1120	E. South, Deck Rebar/Forms & Pour	14	10/01/18	10/18/18
Roadway		45	09/05/18	11/06/18
M1M06S-1090	E. South, Build Embankments to Final Grade	20	09/05/18	10/02/18
M1M06S-1100	E. South, Hydroseed Embankments	5	10/03/18	10/09/18
M1M06S-1130	E. South, Deck & Road Pavements	4	10/19/18	10/24/18
M1M06S-1140	E. South, Landscape/Permanent BMPS/Fencing	11	10/23/18	11/06/18
M1M06S-9000	E. South, Open for Traffic & Ready for Track work	0		11/06/18
RCBC & Irrigation Relocation		18	09/05/18	09/28/18
M1M06BC-100	Irrigation Box Culvert, Prep/Place Box Culvert and Canal/Ditch work	18	09/05/18	09/28/18
Track		137	10/19/18	04/29/19
M1M06TE-110	E. South (M-735+00 > M-745+00), HST Track Common Fill	5	10/19/18	10/25/18
M1M06TE-120	E. South (M-735+00 > M-745+00), HST Track Common Fill, Surcharge Wait	180	10/26/18	04/23/19
M1M06TE-130	E. South (M-735+00 > M-745+00), HST Track Subgrade	2	04/24/19	04/25/19
M1M06TE-140	E. South (M-735+00 > M-745+00), HST Track AC	2	04/26/19	04/29/19
E. South Ave to E. Manning (745+00 to 785+00)		183	04/10/17	12/20/17
Grubb and Demolition		5	04/10/17	04/14/17
M1M07C-1000	M-745+00 to M-785+00, Clear & Grubb	5	04/10/17	04/14/17
RCBC & Irrigation Relocation		15	04/17/17	05/05/17
M1M07BCA-100	M-745+00 to M-785+00, Prep/Place Precast Culvert and Canal/Ditch Work	15	04/17/17	05/05/17
Track		144	06/02/17	12/20/17
M1M07TE-110	M-745+00 to M-785+00, HST Track Common Fill	4	06/02/17	06/07/17
M1M07TE-120	M-745+00 to M-785+00, HST Track Common Fill, Surcharge Wait	180	06/08/17	12/04/17
M1M07TE-130	M-745+00 to M-785+00, HST Track Subgrade	8	12/05/17	12/14/17
M1M07TE-140	M-745+00 to M-785+00, HST Track AC	4	12/15/17	12/20/17
E. Manning Ave. (785+00 to 795+00)		334	11/13/17	02/21/19
Grubb and Demolition		5	11/13/17	11/17/17
M1M08C-1000	E. Manning, Clear & Grubb	5	11/13/17	11/17/17
Utilities		15	11/20/17	12/12/17
M1M08U-1010	E. Manning, Move Utiliities	15	11/20/17	12/12/17
Structure (2 Spans)		105	12/13/17	05/08/18
M1M08S-1020	E. Manning, Foundations	20	12/13/17	01/11/18
M1M08S-0001	E. Manning, Start Structure	0	12/13/17	
M1M08S-1040	E. Manning, F/R/P Columns	30	01/12/18	02/26/18
M1M08S-1050	E. Manning, F/R/P Bent Caps	30	02/12/18	03/26/18
M1M08S-1080	E. Manning, Cure Concrete for Precast	21	03/27/18	04/16/18
M1M08S-1110	E. Manning, Place Precast Girders	3	04/17/18	04/19/18
M1M08S-1120	E. Manning, Deck Rebar/Forms & Pour	13	04/20/18	05/08/18
Access Road		150	05/09/18	12/12/18
M1M08S-1130	E. Manning, Deck & Road Pavements	8	05/09/18	05/18/18
M1M08S-1140	E. Manning, Landscape/Permanent BMPS/Fencing	21	05/15/18	06/13/18



Remaining Level of Effort
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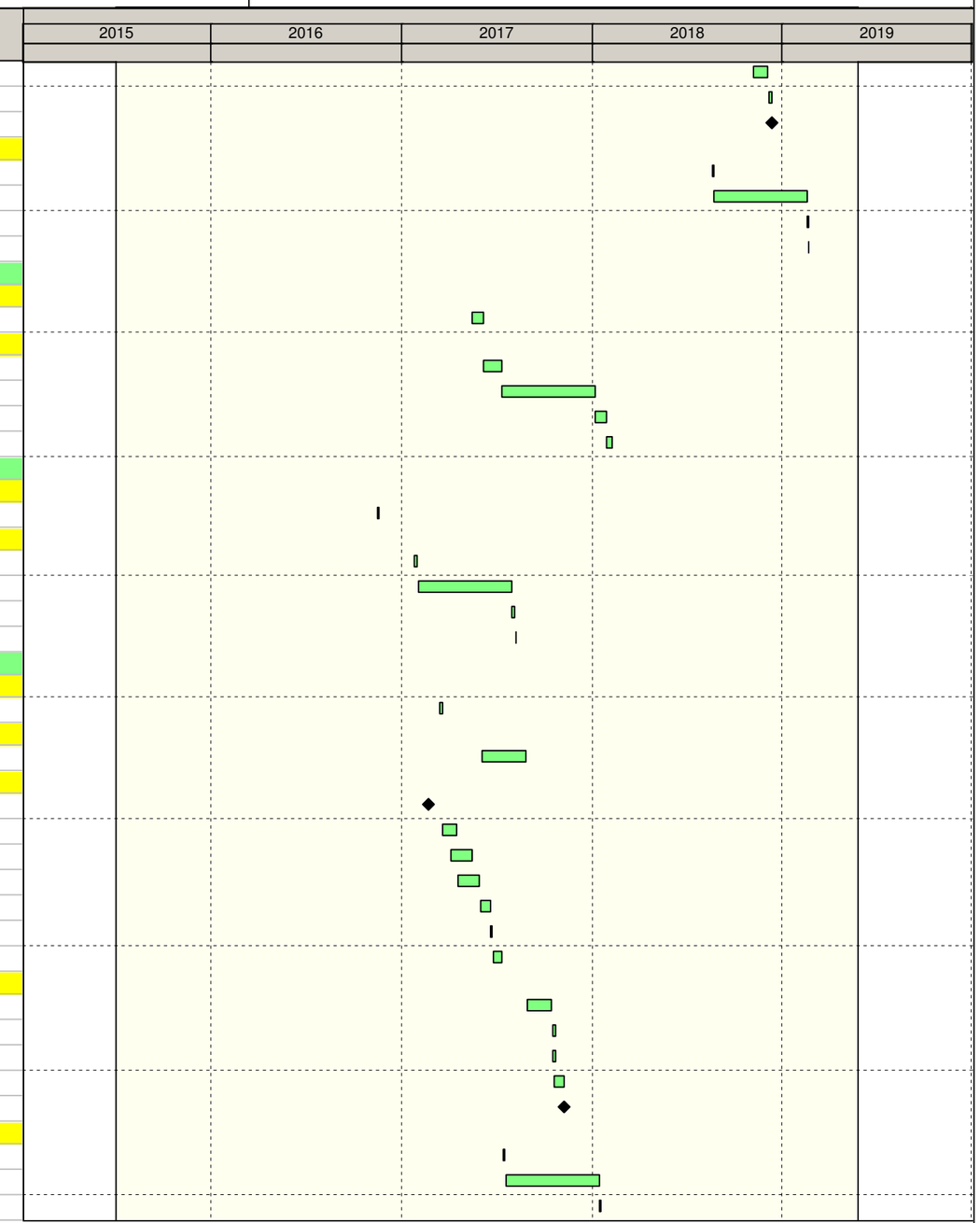
California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1M08S-1090	E. Manning, Build Embankments to Final Grade	18	11/07/18	12/05/18
M1M08S-1100	E. Manning, Hydroseed Embankments	5	12/06/18	12/12/18
M1M08S-9000	E. Manning, Open for Traffic & Ready for Track work	0		12/12/18
Track		132	08/22/18	02/21/19
M1M08TE-110	E. Manning (M-785+00 > M-795+00), HST Track Common Fill	1	08/22/18	08/22/18
M1M08TE-120	E. Manning (M-785+00 > M-795+00), HST Track Common Fill, Surcharge Wait	180	08/23/18	02/18/19
M1M08TE-130	E. Manning (M-785+00 > M-795+00), ,HST Track Subgrade	2	02/19/19	02/20/19
M1M08TE-140	E. Manning (M-785+00 > M-795+00), HST Track AC	1	02/21/19	02/21/19
E. Manning to BNSF Re-Align (795+00 to 872+00)		194	05/15/17	02/08/18
Grubb and Demolition		17	05/15/17	06/07/17
M1M09C-1000	M-795+00 to M-872+00, Clear & Grubb,	17	05/15/17	06/07/17
Track		176	06/08/17	02/08/18
M1M09TE-110	M-795+00 to M-872+00, HST Track Common Fill	23	06/08/17	07/11/17
M1M09TE-120	M-795+00 to M-872+00, HST Track Common Fill, Surcharge Wait	180	07/12/17	01/07/18
M1M09TE-130	M-795+00 to M-872+00, HST Track Subgrade	15	01/08/18	01/29/18
M1M09TE-140	M-795+00 to M-872+00, HST Track AC	8	01/30/18	02/08/18
BNSF Re-Align to E. Floral (872+00 to 895+00)		191	11/15/16	08/08/17
Grubb and Demolition		3	11/15/16	11/17/16
M1M10C-1000	M-872+00 to M-895+00, Clear & Grubb	3	11/15/16	11/17/16
Track		140	01/25/17	08/08/17
M1M10TE-110	M-872+00 to M-895+00, HST Track Common Fill	5	01/25/17	01/31/17
M1M10TE-120	M-872+00 to M-895+00, HST Track Common Fill, Surcharge Wait	180	02/01/17	07/30/17
M1M10TE-130	M-872+00 to M-895+00, HST Track Subgrade	5	07/31/17	08/04/17
M1M10TE-140	M-872+00 to M-895+00, HST Track AC	2	08/07/17	08/08/17
E. Floral Ave. (895+00 to 905+00)		238	02/21/17	01/18/18
Grubb and Demolition		5	03/14/17	03/20/17
M1M11C-1000	E. Floral, Clear & Grubb	5	03/14/17	03/20/17
Utilities		60	06/05/17	08/28/17
M1M11U-1010	E. Floral, Move Utiliities	60	06/05/17	08/28/17
Structure (2 Span)		103	02/21/17	07/13/17
M1M11S-0001	E. Floral, Start Structure	0	02/21/17	
M1M11S-1020	E. Floral, Foundations	20	03/21/17	04/17/17
M1M11S-1040	E. Floral, F/R/P Columns	30	04/04/17	05/15/17
M1M11S-1050	E. Floral, F/R/P Bent Caps	30	04/18/17	05/30/17
M1M11S-1080	E. Floral, Cure Concrete for Precast	21	05/31/17	06/20/17
M1M11S-1110	E. Floral, Place Precast Girders	3	06/21/17	06/23/17
M1M11S-1120	E. Floral, Deck Rebar/Forms & Pour	13	06/26/17	07/13/17
Access Road		52	08/29/17	11/09/17
M1M11S-1090	E. Floral, Build Embankments to Final Grade	34	08/29/17	10/16/17
M1M11S-1130	E. Floral, Deck & Road Pavements	6	10/17/17	10/24/17
M1M11S-1100	E. Floral, Hydroseed Embankments	5	10/17/17	10/23/17
M1M11S-1140	E. Floral, Landscape/Permanent BMPS/Fencing	15	10/20/17	11/09/17
M1M11S-9000	E. Floral, Open for Traffic & Ready for Track work	0		11/09/17
Track		135	07/14/17	01/18/18
M1M11TE-110	E. Floral (M-895+00 to M-905+00), HST Track Common Fill	3	07/14/17	07/18/17
M1M11TE-120	E. Floral (M-895+00 to M-905+00), HST Track Common Fill, Surcharge Wait	180	07/19/17	01/14/18
M1M11TE-130	E. Floral (M-895+00 to M-905+00), HST Track Subgrade	2	01/16/18	01/17/18



Remaining Level of Effort
Actual Work
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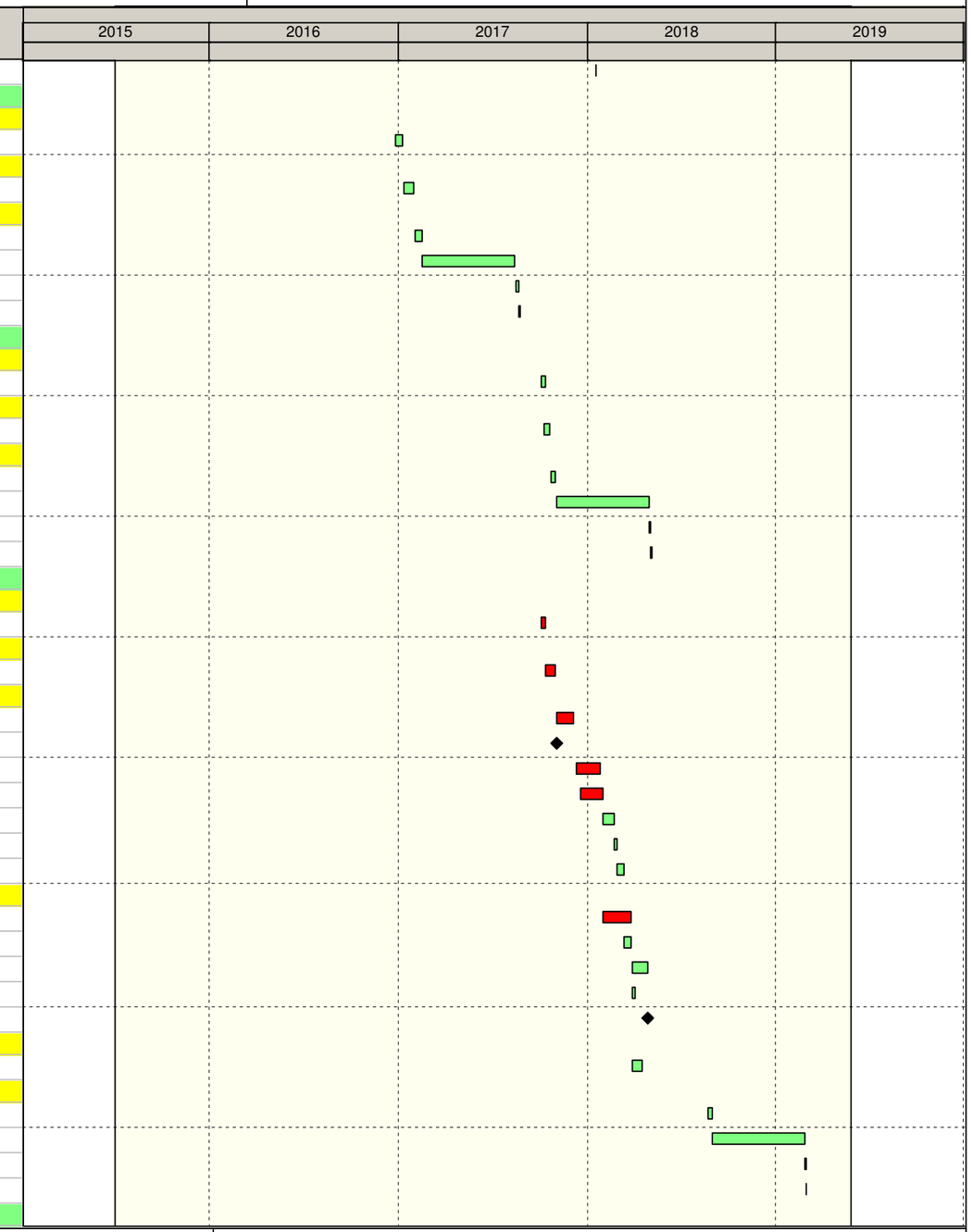
Activity ID	Activity Name	OD	Start	Finish
M1M11TE-140	E. Floral (M-895+00 to M-905+00), HST Track AC	1	01/18/18	01/18/18
E. Floral to BNSF Re-Align (905+00 to 935+00)		174	12/27/16	08/25/17
Grubb and Demolition		9	12/27/16	01/09/17
M1M12C-1000	M-905+00 to M-935+00, Clear & Grubb	9	12/27/16	01/09/17
RCBC & Irrigation Relocation		15	01/10/17	01/31/17
M1M12BCA-100	M-905+00 to M-935+00, Prep/Place Precast Culverts and Canal/Ditch Work	15	01/10/17	01/31/17
Track		148	02/01/17	08/25/17
M1M12TE-110	M-905+00 to M-935+00, HST Track Common Fill	11	02/01/17	02/15/17
M1M12TE-120	M-905+00 to M-935+00, HST Track Common Fill, Surcharge Wait	180	02/16/17	08/14/17
M1M12TE-130	M-905+00 to M-935+00, HST Track Subgrade	6	08/15/17	08/22/17
M1M12TE-140	M-905+00 to M-935+00, HST Track AC	3	08/23/17	08/25/17
BNSF Re-Align to Nebraska (935+00 to 950+00)		153	10/05/17	05/07/18
Grubb and Demolition		6	10/05/17	10/12/17
M1M13C-1000	M-935+00 to M-950+00, Clear & Grubb	6	10/05/17	10/12/17
RCBC & Irrigation Relocation		10	10/09/17	10/20/17
M1M13BCA-100	M-935+00 to M-950+00, Prep/Place Precast Culvert and Canal/Ditch Work	10	10/09/17	10/20/17
Track		141	10/23/17	05/07/18
M1M13TE-110	M-935+00 to M-950+00, HST Track Common Fill	8	10/23/17	11/01/17
M1M13TE-120	M-935+00 to M-950+00, HST Track Common Fill, Surcharge Wait	180	11/02/17	04/30/18
M1M13TE-130	M-935+00 to M-950+00, HST Track Subgrade	3	05/01/18	05/03/18
M1M13TE-140	M-935+00 to M-950+00, HST Track AC	2	05/04/18	05/07/18
Nebraska Ave. (950+00 to 960+00)		367	10/05/17	03/01/19
Grubb and Demolition		5	10/05/17	10/11/17
M1M14C-1000	Nebraska, Clear & Grubb	5	10/05/17	10/11/17
Utilities		15	10/12/17	11/01/17
M1M14U-1010	Nebraska, Move Utiliities	15	10/12/17	11/01/17
Structure (2 Spans)		94	11/02/17	03/13/18
M1M14S-1020	Nebraska, Foundations	20	11/02/17	12/04/17
M1M14S-0001	Nebraska, Start Structure	0	11/02/17	
M1M14S-1040	Nebraska, F/R/P Columns	30	12/12/17	01/25/18
M1M14S-1050	Nebraska, F/R/P Bent Caps	30	12/19/17	02/01/18
M1M14S-1080	Nebraska, Cure Concrete for Precast	21	02/02/18	02/22/18
M1M14S-1110	Nebraska, Place Precast Girders	3	02/23/18	02/27/18
M1M14S-1120	Nebraska, Deck Rebar/Forms & Pour	10	02/28/18	03/13/18
Access Road		60	02/02/18	04/27/18
M1M14S-1090	Nebraska, Build Embankments to Final Grade	38	02/02/18	03/28/18
M1M14S-1130	Nebraska, Deck & Road Pavements	9	03/14/18	03/26/18
M1M14S-1140	Nebraska, Landscape/Permanent BMPS/Fencing	22	03/29/18	04/27/18
M1M14S-1100	Nebraska, Hydroseed Embankments	5	03/29/18	04/04/18
M1M14S-9000	Nebraska, Open for Traffic & Ready for Track work	0		04/27/18
RCBC & Irrigation Relocation		15	03/29/18	04/18/18
M1M14BCA-100	M-951+50, Prep/Place Precast Culvert and Canal/Ditch Work	15	03/29/18	04/18/18
Track		137	08/23/18	03/01/19
M1M14TE-110	Nebraska (M-950+00 to M-960+00), HST Track Common Fill	6	08/23/18	08/30/18
M1M14TE-120	Nebraska (M-950+00 to M-960+00)HST Track Common Fill, Surcharge Wait	180	08/31/18	02/26/19
M1M14TE-130	Nebraska (M-950+00 to M-960+00)HST Track Subgrade	2	02/27/19	02/28/19
M1M14TE-140	Nebraska (M-950+00 to M-960+00)HST Track AC	1	03/01/19	03/01/19
Nebraska to E. Mountain (960+00 to 1005+00)		169	10/17/17	06/08/18



Remaining Level of Effort
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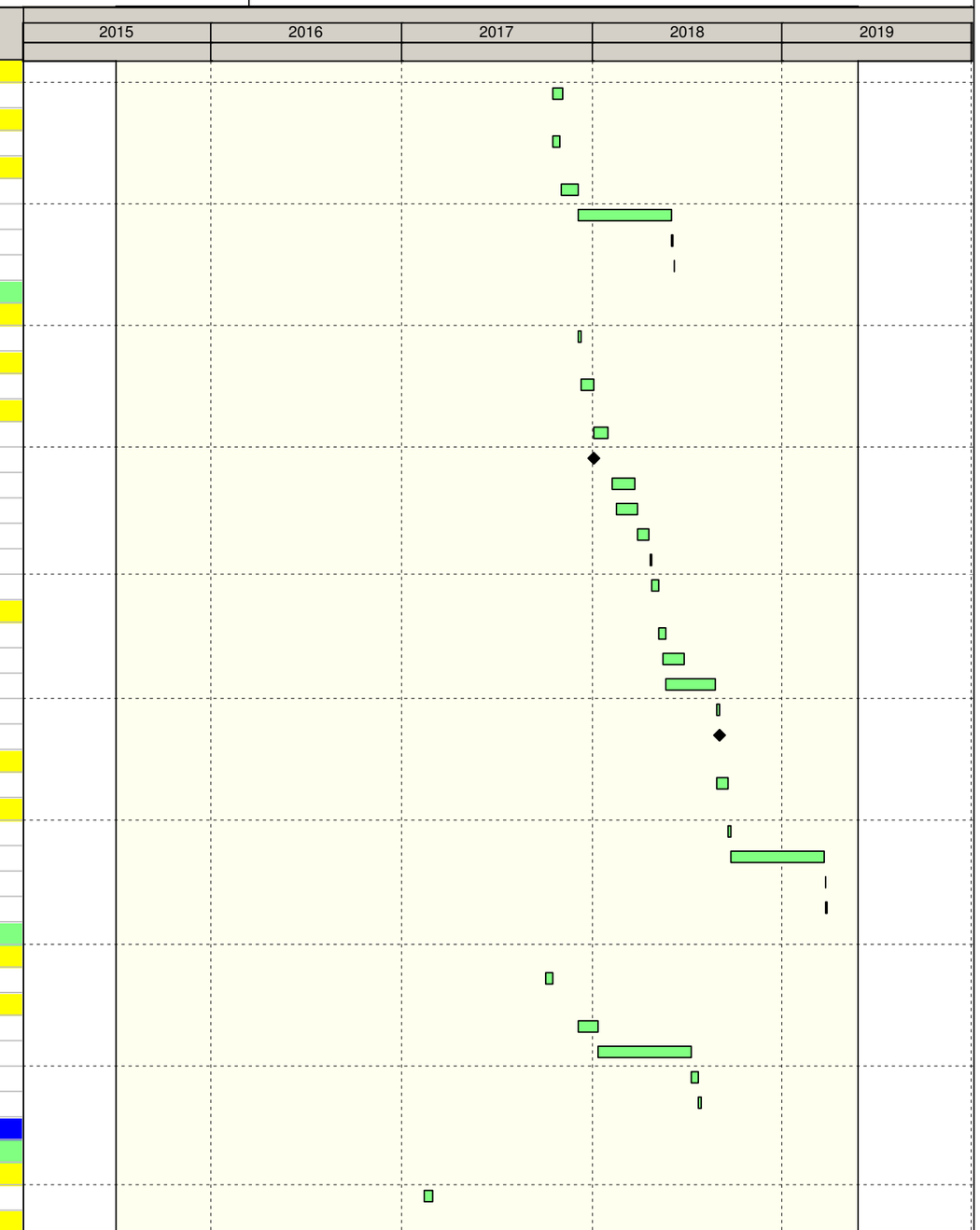
Activity ID	Activity Name	OD	Start	Finish
Grubb and Demolition		15	10/17/17	11/06/17
M1M15C-1000	M-960+00 to M-1005+00, Clear & Grubb	15	10/17/17	11/06/17
RCBC & Irrigation Relocation		10	10/19/17	11/01/17
M1M15BC-100	M-960+00 to M-1005+00, Prep/Place Precast Culverts and Canal/Ditch Work	10	10/19/17	11/01/17
Track		157	11/02/17	06/08/18
M1M15TE-110	M-960+00 to M-1005+00, HST Track Common Fill	20	11/02/17	12/04/17
M1M15TE-120	M-960+00 to M-1005+00, HST Track Common Fill, Surcharge wait	180	12/05/17	06/02/18
M1M15TE-130	M-960+00 to M-1005+00, HST Track Subgrade	3	06/04/18	06/06/18
M1M15TE-140	M-960+00 to M-1005+00, HST Track AC	2	06/07/18	06/08/18
E. Mountain Ave. (1005+00 to 1015+00)		342	12/05/17	03/27/19
Grubb and Demolition		5	12/05/17	12/11/17
M1M16C-1000	E. Mountain, Clear & Grubb	5	12/05/17	12/11/17
Utilities		15	12/12/17	01/03/18
M1M16U-1010	E. Mountain, Move Utiliities	15	12/12/17	01/03/18
Structure (2 Span)		90	01/04/18	05/09/18
M1M16S-1020	E. Mountain, Foundations	20	01/04/18	02/01/18
M1M16S-0001	E. Mountain, Start Structure	0	01/04/18	
M1M16S-1040	E. Mountain, F/R/P Columns	30	02/09/18	03/23/18
M1M16S-1050	E. Mountain, F/R/P Bent Caps	30	02/16/18	03/30/18
M1M16S-1080	E. Mountain, Cure Concrete for Precast	21	03/31/18	04/20/18
M1M16S-1110	E. Mountain, Place Precast Girders	3	04/23/18	04/25/18
M1M16S-1120	E. Mountain, Deck Rebar/Forms & Pour	10	04/26/18	05/09/18
Access Road		81	05/10/18	09/04/18
M1M16S-1130	E. Mountain, Deck & Road Pavements	11	05/10/18	05/24/18
M1M16S-1140	E. Mountain,Landscape/Permanent BMPS/Fencing	28	05/18/18	06/27/18
M1M16S-1090	E. Mountain, Build Embankments to Final Grade	68	05/22/18	08/27/18
M1M16S-1100	E. Mountain, Hydroseed Embankments	5	08/28/18	09/04/18
M1M16S-9000	E. Mountain, Open for Traffic & Ready for Track work	0		09/04/18
RCBC & Irrigation Relocation		15	08/28/18	09/18/18
M1M16BCA-100	E. Mountain (M-1005+00 to M-1015+00), Prep/Place Precast Culvert and Canal/...	15	08/28/18	09/18/18
Track		136	09/19/18	03/27/19
M1M16TE-110	E. Mountain (M-1005+00 to M-1015+00), HST Track Common Fill	5	09/19/18	09/25/18
M1M16TE-120	E. Mountain (M-1005+00 to M-1015+00), HST Track Common Fill, Surcharge wait	180	09/26/18	03/24/19
M1M16TE-130	E. Mountain (M-1005+00 to M-1015+00), HST Track Subgrade	2	03/25/19	03/26/19
M1M16TE-140	E. Mountain (M-1005+00 to M-1015+00), HST Track AC	1	03/27/19	03/27/19
E. Mountain to BNSF Re-Align (1015+00 to 1062+00)		213	10/05/17	07/30/18
Grubb and Demolition		10	10/05/17	10/18/17
M1M17C-1000	M-1015+00 to M-1062+00, Clear & Grubb	10	10/05/17	10/18/17
Track		170	12/05/17	07/30/18
M1M17TE-110	M-1015+00 to M-1062+00, HST Track Common Fill	26	12/05/17	01/11/18
M1M17TE-120	M-1015+00 to M-1062+00, HST Track Common Fill, Surcharge Wait	180	01/12/18	07/10/18
M1M17TE-130	M-1015+00 to M-1062+00, HST Track Subgrade	9	07/11/18	07/23/18
M1M17TE-140	M-1015+00 to M-1062+00, HST Track AC	5	07/24/18	07/30/18
Alignment H		632	11/15/16	04/17/19
End BNSF (M-1062+00 to H-1085+00)		153	02/14/17	09/14/17
Grubb and Demolition		11	02/14/17	03/01/17
M1H01C-1000	M-1062+00 to H-1085+00, Clear & Grubb	11	02/14/17	03/01/17
Track		151	02/16/17	09/14/17



Remaining Level of Effort
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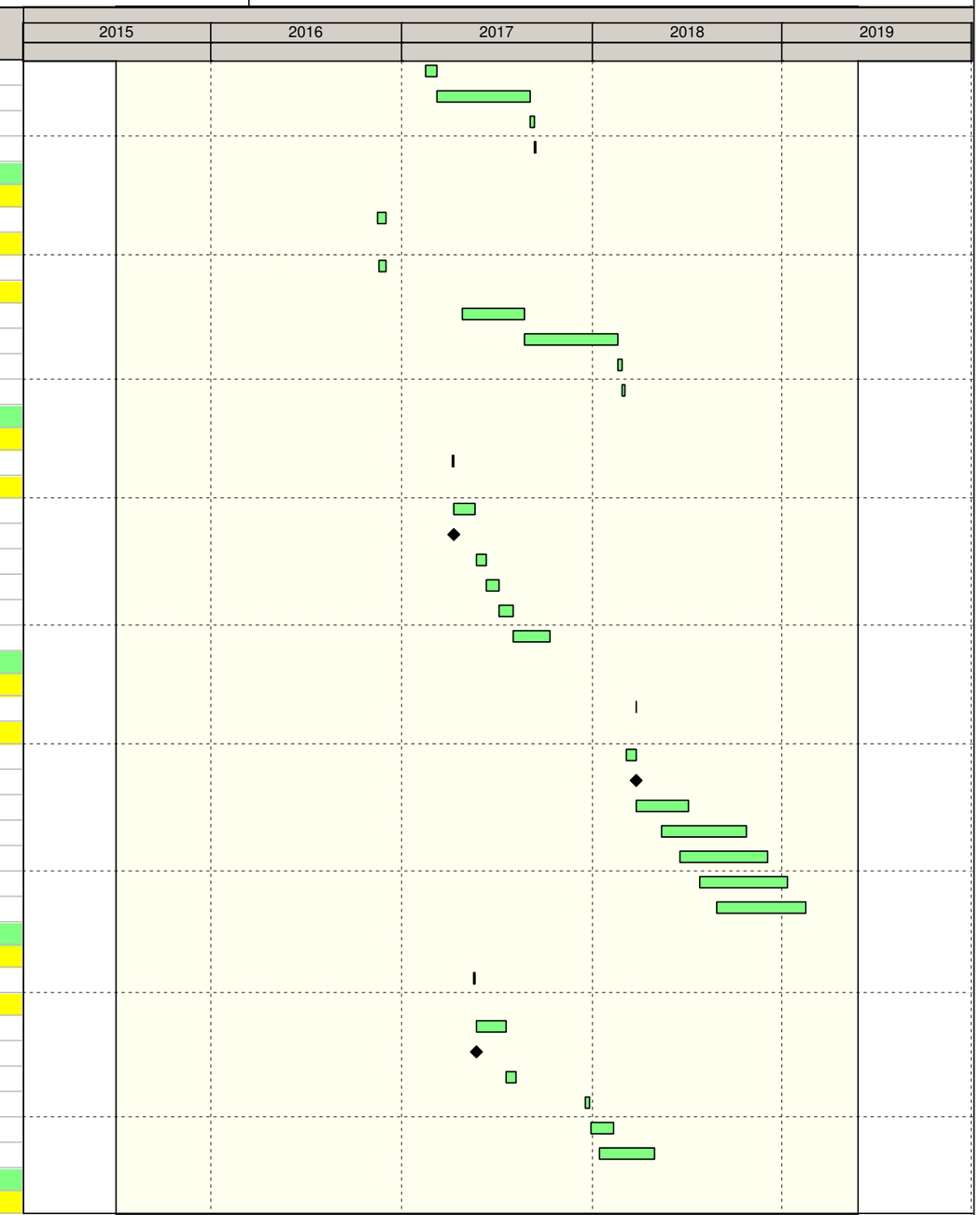
Activity ID	Activity Name	OD	Start	Finish
M1H01TE-110	M-1062+00 to H-1085+00, HST Track Common Fill	14	02/16/17	03/08/17
M1H01TE-120	M-1062+00 to H-1085+00, HST Track Common Fill, Surcharge Wait	180	03/09/17	09/04/17
M1H01TE-130	M-1062+00 to H-1085+00, HST Track Subgrade	5	09/05/17	09/11/17
M1H01TE-140	M-1062+00 to H-1085+00, HST Track AC	3	09/12/17	09/14/17
Conejo (H-1085+00 to H-1119+00)		**341**	**11/15/16**	**03/06/18**
Grubb and Demolition		**11**	**11/15/16**	**12/01/16**
M1H02C-1000	H-1085+00 to H-1119+00, Clear & Grubb	11	11/15/16	12/01/16
RCBC & Irrigation Relocation		**10**	**11/17/16**	**12/02/16**
M1H02BCA-100	H-1085+00 to H-1119+00, Prep/Place Precast Culvert and Canal/Ditch Work	10	11/17/16	12/02/16
Track		**223**	**04/28/17**	**03/06/18**
M1H02TE-110	H-1085+00 to H-1119+00, HST Track Common Fill	82	04/28/17	08/23/17
M1H02TE-120	H-1085+00 to H-1119+00, HST Track Common Fill, Surcharge Wait	180	08/24/17	02/19/18
M1H02TE-130	H-1085+00 to H-1119+00, HST Track Subgrade	7	02/20/18	02/28/18
M1H02TE-140	H-1085+00 to H-1119+00, HST Track AC	4	03/01/18	03/06/18
Bridge H1(Conejo Box Girder) (H-1119+00 to H-1120+00)		**133**	**04/07/17**	**10/13/17**
Grubb and Demolition		**2**	**04/07/17**	**04/10/17**
M1H03C-1000	Bridge H-1(Conejo Box Girder), Clear & Grubb	2	04/07/17	04/10/17
Structure (2 Spans)		**131**	**04/11/17**	**10/13/17**
M1H03S-1010	Bridge H-1(Conejo Box Girder), Foundation	30	04/11/17	05/22/17
M1H03S-0001	Bridge H-1(Conejo Box Girder), Start Structure	0	04/11/17	
M1H03S-1030	Bridge H-1(Conejo Box Girder), Wing Walls	14	05/23/17	06/12/17
M1H03S-1020	Bridge H-1(Conejo Box Girder), Abutments	16	06/13/17	07/05/17
M1H03S-1040	Bridge H-1(Conejo Box Girder), F/R/P Columns	20	07/06/17	08/02/17
M1H03S-1110	Bridge H-1(Conejo Box Girder), F/R/P Box Girders	51	08/03/17	10/13/17
Bridge H2(BNSF Straddle) (H-1120+00 to H-1134+00)		**239**	**03/07/18**	**02/15/19**
Grubb and Demolition		**2**	**03/26/18**	**03/27/18**
M1H04C-1000	Bridge H-2(BNSF Straddle), Clear & Grubb	2	03/26/18	03/27/18
Structure		**239**	**03/07/18**	**02/15/19**
M1H04S-0010	Bridge H-2(BNSF Straddle), Foundation Testing	15	03/07/18	03/27/18
M1H04S-0001	Bridge H-2(BNSF Straddle), Start Structure	0	03/28/18	
M1H04S-1010	Bridge H-2(BNSF Straddle), Foundations	71	03/28/18	07/06/18
M1H04S-1040	Bridge H-2(BNSF Straddle), F/R/P Columns	115	05/15/18	10/25/18
M1H04S-1050	Bridge H-2(BNSF Straddle), F/R/P Edge Beams	115	06/20/18	12/04/18
M1H04S-1110	Bridge H-2(BNSF Straddle), Place Precast	115	07/26/18	01/10/19
M1H04S-1120	Bridge H-2(BNSF Straddle), F/R/P Decks	115	08/30/18	02/15/19
Bridge H3(BNSF Box Girder) (H-1134+00 to H-1137+00)		**239**	**05/19/17**	**05/02/18**
Grubb and Demolition		**2**	**05/19/17**	**05/22/17**
M1H05C-1000	Bridge H-3(BNSF Box Girder), Clear & Grubb	2	05/19/17	05/22/17
Structure (3 Spans)		**237**	**05/23/17**	**05/02/18**
M1H05S-1010	Bridge H-3(BNSF Box Girder), Foundations	40	05/23/17	07/19/17
M1H05S-0001	Bridge H-3(BNSF Box Girder), Start Structure	0	05/23/17	
M1H05S-1030	Bridge H-3(BNSF Box Girder), Wing Walls	14	07/20/17	08/08/17
M1H05S-1020	Bridge H-3(BNSF Box Girder), Abutments	8	12/18/17	12/28/17
M1H05S-1040	Bridge H-3(BNSF Box Girder), F/R/P Columns	30	12/29/17	02/12/18
M1H05S-1110	Bridge H-3(BNSF Box Girder), F/R/P Box Girders	76	01/16/18	05/02/18
Conejo (H-1137+00 to H-1149+40)		**178**	**12/27/17**	**08/31/18**
Grubb and Demolition		**11**	**12/27/17**	**01/11/18**



Remaining Level of Effort
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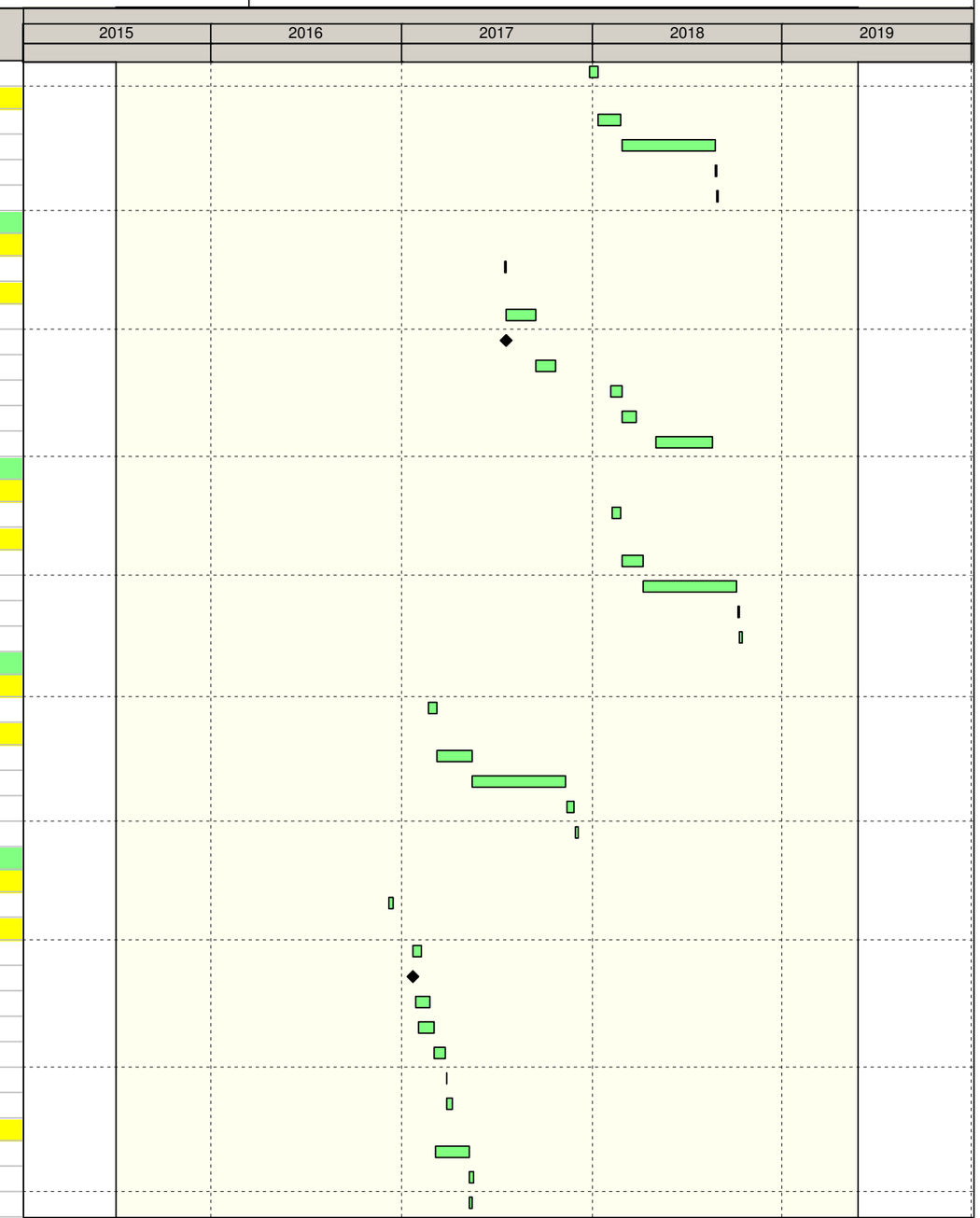
Activity ID	Activity Name	OD	Start	Finish
M1H06C-1000	H-1137+00 to H-1149+00, Clear & Grubb	11	12/27/17	01/11/18
Track		166	01/12/18	08/31/18
M1H06TE-110	H-1137+00 to H-1149+00, HST Track Common Fill	30	01/12/18	02/26/18
M1H06TE-120	H-1137+00 to H-1149+00, HST Track Common Fill, Surcharge Wait	180	02/27/18	08/25/18
M1H06TE-130	H-1137+00 to H-1149+00, HST Track Subgrade	3	08/27/18	08/29/18
M1H06TE-140	H-1137+00 to H-1149+00, HST Track AC	2	08/30/18	08/31/18
Bridge H4(Peach Ave, Box Girder) (H-1149+40 to H-1152+40)		275	07/18/17	08/20/18
Grubb and Demolition		2	07/18/17	07/19/17
M1H07C-1000	Bridge H-4(S.Peach Ave, Box Girder), Clear & Grubb	2	07/18/17	07/19/17
Structure (3 spans)		273	07/20/17	08/20/18
M1H07S-1010	Bridge H-4(S.Peach Ave, Box Girder), Foundations	40	07/20/17	09/14/17
M1H07S-0001	Bridge H-4(S.Peach Ave, Box Girder), Start Structure	0	07/20/17	
M1H07S-1030	Bridge H-4(S.Peach Ave, Box Girder), Wing Walls	28	09/15/17	10/24/17
M1H07S-1020	Bridge H-4(S.Peach Ave, Box Girder), Abutments	16	02/05/18	02/27/18
M1H07S-1040	Bridge H-4(S.Peach Ave, Box Girder), F/R/P Columns	20	02/28/18	03/27/18
M1H07S-1110	Bridge H-4(S.Peach Ave, Box Girder), F/R/P Box Girders	76	05/03/18	08/20/18
Conejo (H-1152+40 to H-1173+00)		177	02/09/18	10/15/18
Grubb and Demolition		11	02/09/18	02/26/18
M1H08C-1000	H-1152+40 to H-1173+00, Clear & Grubb	11	02/09/18	02/26/18
Track		165	02/27/18	10/15/18
M1H08TE-110	H-1152+40 to H-1173+00, HST Track Common Fill	30	02/27/18	04/09/18
M1H08TE-120	H-1152+40 to H-1173+00, HST Track Common Fill, Surcharge Wait	180	04/10/18	10/06/18
M1H08TE-130	H-1152+40 to H-1173+00, HST Track Subgrade	4	10/08/18	10/11/18
M1H08TE-140	H-1152+40 to H-1173+00, HST Track AC	2	10/12/18	10/15/18
H-1173+00 to H-1220+00		205	02/22/17	12/05/17
Grubb and Demolition		11	02/22/17	03/08/17
M1H09C-1000	H-1173+00 to H-1220+00, Clear & Grubb	11	02/22/17	03/08/17
Track		194	03/09/17	12/05/17
M1H09TE-110	H-1173+00 to H-1220+00, HST Track Common Fill	48	03/09/17	05/15/17
M1H09TE-120	H-1173+00 to H-1220+00, HST Track Common Fill, Surcharge Wait	180	05/16/17	11/11/17
M1H09TE-130	H-1173+00 to H-1220+00, HST Track Subgrade	10	11/13/17	11/28/17
M1H09TE-140	H-1173+00 to H-1220+00, HST Track AC	5	11/29/17	12/05/17
Clovis (H-1220+00 to H-1240+00)		331	12/08/16	03/15/18
Grubb and Demolition		5	12/08/16	12/14/16
M1H10C-1000	E. Clovis, Clear & Grubb	5	12/08/16	12/14/16
Structure (1 Span)		55	01/23/17	04/07/17
M1H10S-1020	E. Clovis, Foundations	13	01/23/17	02/08/17
M1H10S-0001	E. Clovis, Start Structure	0	01/23/17	
M1H10S-1040	E. Clovis, F/R/P Columns	20	01/27/17	02/24/17
M1H10S-1050	E. Clovis, F/R/P Bent Caps	20	02/03/17	03/03/17
M1H10S-1080	E. Clovis, Cure Concrete for Precast	21	03/04/17	03/24/17
M1H10S-1110	E. Clovis, Place Precast Girders	2	03/27/17	03/28/17
M1H10S-1120	E. Clovis, Deck Rebar/Forms & Pour	8	03/29/17	04/07/17
Access Road		66	03/06/17	06/06/17
M1H10S-1090	E. Clovis, Build Embankments to Final Grade	47	03/06/17	05/09/17
M1H10S-1130	E. Clovis, Deck & Roads Pavements	6	05/10/17	05/17/17
M1H10S-1100	E. Clovis, Hydroseed Embankments	5	05/10/17	05/16/17



Remaining Level of Effort
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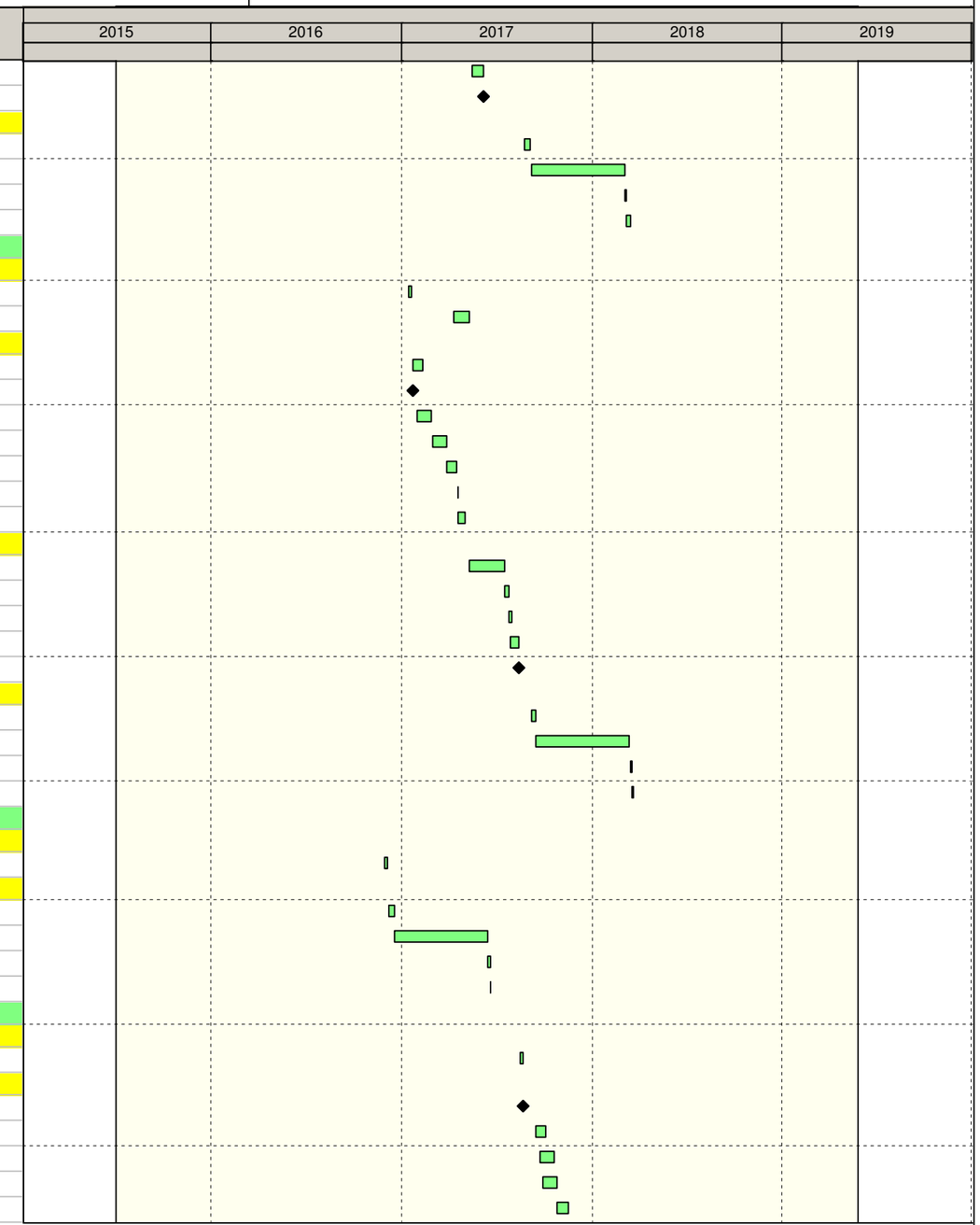
Activity ID	Activity Name	OD	Start	Finish
M1H10S-1140	E. Clovis, Landscape/Permanent BMPS/Fencing	16	05/15/17	06/06/17
M1H10S-9000	E. Clovis, Open for Traffic & Ready for Track work	0		06/06/17
Track		146	08/24/17	03/15/18
M1H10TE-110	E. Clovis (H-1220+00 to H-1240+00), HST Track Common Fill	8	08/24/17	09/05/17
M1H10TE-120	E. Clovis (H-1220+00 to H-1240+00), HST Track Common Fill, Surcharge Wait	180	09/06/17	03/04/18
M1H10TE-130	E. Clovis (H-1220+00 to H-1240+00), HST Track Subgrade	4	03/05/18	03/08/18
M1H10TE-140	E. Clovis (H-1220+00 to H-1240+00), HST Track AC	5	03/09/18	03/15/18
H-1240+00 to H-1255+00 (Elkhorn)		309	01/13/17	03/21/18
Grubb and Demolition		83	01/13/17	05/09/17
M1H11C-1000	E. Elkhorn, Clear & Grubb	5	01/13/17	01/20/17
M1H11C-1010	E. Elkhorn, Move Utilities (Primary are gas lines)	20	04/12/17	05/09/17
Structure (1 span)		71	01/23/17	05/01/17
M1H11S-1020	E. Elkhorn, Foundations	14	01/23/17	02/09/17
M1H11S-0001	E. Elkhorn, Start Structure	0	01/23/17	
M1H11S-1040	E. Elkhorn, F/R/P Columns	20	01/30/17	02/27/17
M1H11S-1050	E. Elkhorn, F/R/P Bent Caps	20	02/28/17	03/27/17
M1H11S-1080	E. Elkhorn, Cure Concrete for Precast	21	03/28/17	04/17/17
M1H11S-1110	E. Elkhorn, Place Precast Girders	2	04/18/17	04/19/17
M1H11S-1120	E. Elkhorn, Deck Rebar/Forms & Pour	8	04/20/17	05/01/17
Access Road		67	05/10/17	08/14/17
M1H11S-1090	E. Elkhorn, Build Embankments to Final Grade	47	05/10/17	07/17/17
M1H11S-1100	E. Elkhorn, Hydroseed Embankments	5	07/18/17	07/24/17
M1H11S-1130	E. Elkhorn, Deck & Roads Pavements	5	07/25/17	07/31/17
M1H11S-1140	E. Elkhorn, Landscape/Permanent BMPS/Fencing	13	07/27/17	08/14/17
M1H11S-9000	E. Elkhorn, Open for Traffic & Ready for Track work	0		08/14/17
Track		141	09/06/17	03/21/18
M1H11TE-110	E. Elkhorn (H-1240+00 to H-1255+00), HST Track Common Fill	8	09/06/17	09/15/17
M1H11TE-120	E. Elkhorn (H-1240+00 to H-1255+00), HST Track Common Fill, Surcharge Wait	180	09/16/17	03/14/18
M1H11TE-130	E. Elkhorn (H-1240+00 to H-1255+00), HST Track Subgrade	3	03/15/18	03/19/18
M1H11TE-140	E. Elkhorn (H-1240+00 to H-1255+00), HST Track AC	2	03/20/18	03/21/18
H-1255+00 to H-1275+00		147	11/29/16	06/21/17
Grubb and Demolition		5	11/29/16	12/05/16
M1H12C-1000	H-1255+00 to H-1275+00, Clear & Grubb	5	11/29/16	12/05/16
Track		142	12/06/16	06/21/17
M1H12TE-110	H-1255+00 to H-1275+00, HST Track Common Fill	9	12/06/16	12/16/16
M1H12TE-120	H-1255+00 to H-1275+00, HST Track Common Fill, Surcharge Wait	180	12/17/16	06/14/17
M1H12TE-130	H-1255+00 to H-1275+00, HST Track Subgrade	3	06/15/17	06/19/17
M1H12TE-140	H-1255+00 to H-1275+00, HST Track AC	2	06/20/17	06/21/17
H-1275+00 to H-1295+00 (S. Fowler)		315	08/15/17	10/29/18
Grubb and Demolition		5	08/15/17	08/21/17
M1H13C-1000	S. Fowler, Clear & Grubb,	5	08/15/17	08/21/17
Structure (1 Span)		101	08/22/17	01/09/18
M1H13S-0001	S. Fowler, Start Structure	0	08/22/17	
M1H13S-1020	S. Fowler, Foundations	14	09/15/17	10/04/17
M1H13S-1040	S. Fowler, F/R/P Columns	20	09/22/17	10/19/17
M1H13S-1050	S. Fowler, F/R/P Bent Caps	20	09/29/17	10/26/17
M1H13S-1080	S. Fowler, Cure Concrete for Precast	21	10/27/17	11/16/17



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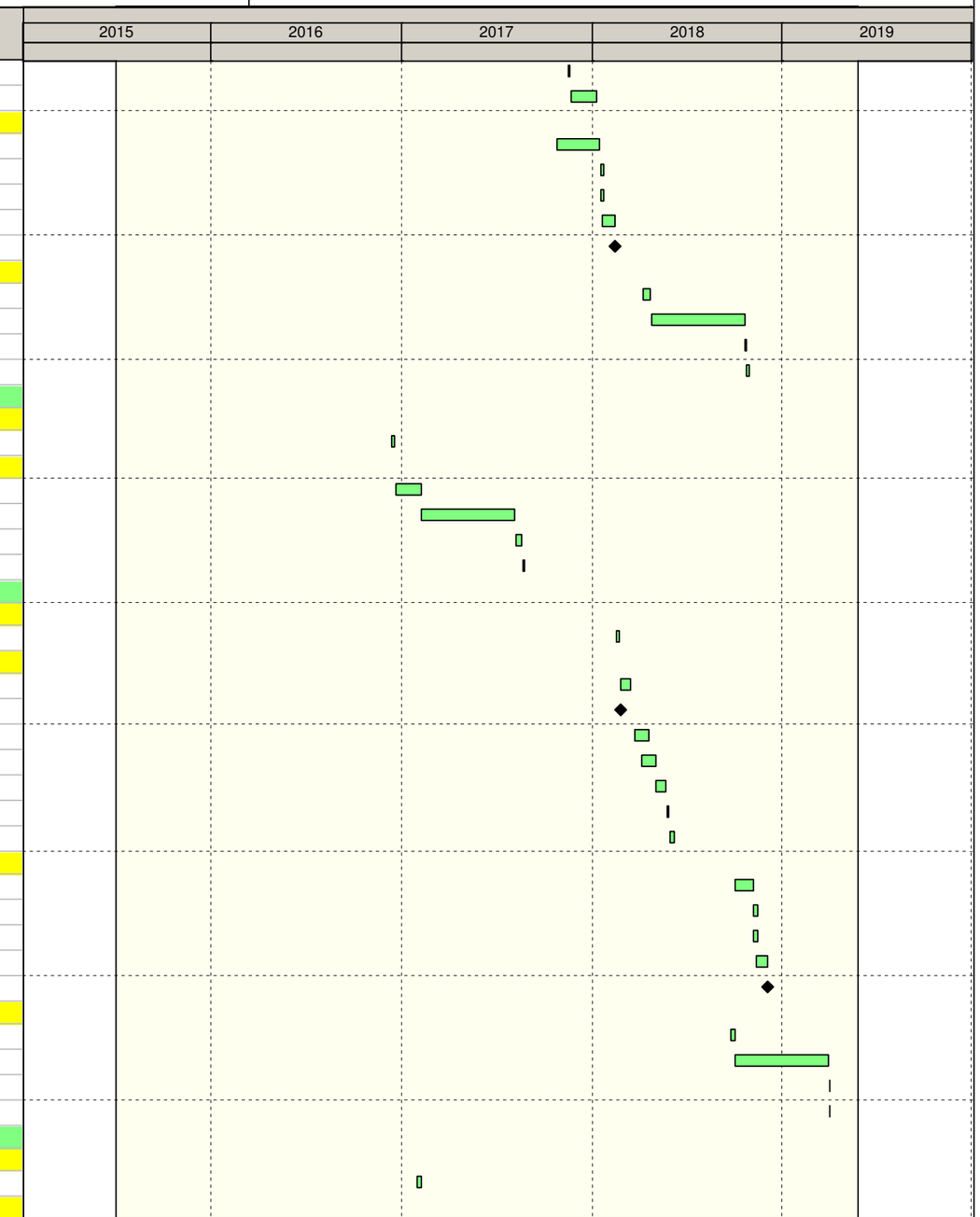
M1H13S-1110	S. Fowler, Place Precast Girders	2	11/17/17	11/20/17
M1H13S-1120	S. Fowler, Deck Rebar/Forms & Pour	8	11/21/17	01/09/18
Access Road		74	10/27/17	02/15/18
M1H13S-1090	S. Fowler, Build Embankments to Final Grade	52	10/27/17	01/16/18
M1H13S-1130	S. Fowler, Deck & Road Pavements	5	01/17/18	01/23/18
M1H13S-1100	S. Fowler, Hydroseed Embankments	5	01/17/18	01/23/18
M1H13S-1140	S. Fowler, Landscape/Permanent BMPS/Fencing	19	01/22/18	02/15/18
M1H13S-9000	S. Fowler, Open for Traffic & Ready for Track work	0		02/15/18
Track		145	04/10/18	10/29/18
M1H13TE-110	S. Fowler (H-1275+00 to H-1295+00), HST Track Common Fill	11	04/10/18	04/24/18
M1H13TE-120	S. Fowler (H-1275+00 to H-1295+00), HST Track Common Fill, Surcharge Wait	180	04/25/18	10/21/18
M1H13TE-130	S. Fowler (H-1275+00 to H-1295+00), HST Track Subgrade	4	10/22/18	10/25/18
M1H13TE-140	S. Fowler (H-1275+00 to H-1295+00), HST Track AC	2	10/26/18	10/29/18
H-1295+00 to H-1345+00		185	12/12/16	08/25/17
Grubb and Demolition		5	12/12/16	12/16/16
M1H14C-1000	H-1295+00 to H-1345+00, Clear & Grubb	5	12/12/16	12/16/16
Track		180	12/19/16	08/25/17
M1H14TE-110	H-1295+00 to H-1345+00, HST Track Common Fill	33	12/19/16	02/06/17
M1H14TE-120	H-1295+00 to H-1345+00, HST Track Common Fill, Surcharge Wait	180	02/07/17	08/05/17
M1H14TE-130	H-1295+00 to H-1345+00, HST Track Subgrade	10	08/07/17	08/18/17
M1H14TE-140	H-1295+00 to H-1345+00, HST Track AC	5	08/21/17	08/25/17
H-1345+00 to H-1355+00 (E. Davis)		295	02/16/18	04/04/19
Grubb and Demolition		5	02/16/18	02/23/18
M1H15C-1000	E. Davis, Clear & Grubb	5	02/16/18	02/23/18
Structure (1 Span)		75	02/26/18	06/08/18
M1H15S-1020	E. Davis, Foundation	14	02/26/18	03/15/18
M1H15S-0001	E. Davis, Start Structure	0	02/26/18	
M1H15S-1040	E. Davis, F/R/P Columns	20	03/23/18	04/19/18
M1H15S-1050	E. Davis, F/R/P Bent Caps	20	04/06/18	05/03/18
M1H15S-1080	E. Davis, Cure Concrete for Precast	21	05/04/18	05/24/18
M1H15S-1110	E. Davis, Place Precast Girders	2	05/25/18	05/29/18
M1H15S-1120	E. Davis, Deck Rebar/Forms & Pour	8	05/30/18	06/08/18
Access Road		43	10/03/18	12/05/18
M1H15S-1090	E. Davis, Build Embankments to Final Grade	25	10/03/18	11/06/18
M1H15S-1130	E. Davis, Deck & Road Pavements	6	11/07/18	11/15/18
M1H15S-1100	E. Davis, Hydroseed Embankments	5	11/07/18	11/14/18
M1H15S-1140	E. Davis, Landscape/Permanent BMPS/Fencing	15	11/13/18	12/05/18
M1H15S-9000	E. Davis, Open for Traffic & Ready for Track work	0		12/05/18
Track		137	09/26/18	04/04/19
M1H15TE-110	E. Davis (H-1345+00 to H-1355+00), HST Track Common Fill	6	09/26/18	10/03/18
M1H15TE-120	E. Davis (H-1345+00 to H-1355+00), HST Track Common Fill, Surcharge Wait	180	10/04/18	04/01/19
M1H15TE-130	E. Davis (H-1345+00 to H-1355+00), HST Track Subgrade	2	04/02/19	04/03/19
M1H15TE-140	E. Davis (H-1345+00 to H-1355+00), HST Track AC	1	04/04/19	04/04/19
H-1355+00 to H-1438+00		210	01/31/17	11/20/17
Grubb and Demolition		5	01/31/17	02/06/17
M1H16C-1000	Clear & Grubb, H-1355+00 to H-1438+00	5	01/31/17	02/06/17
Track		205	02/07/17	11/20/17



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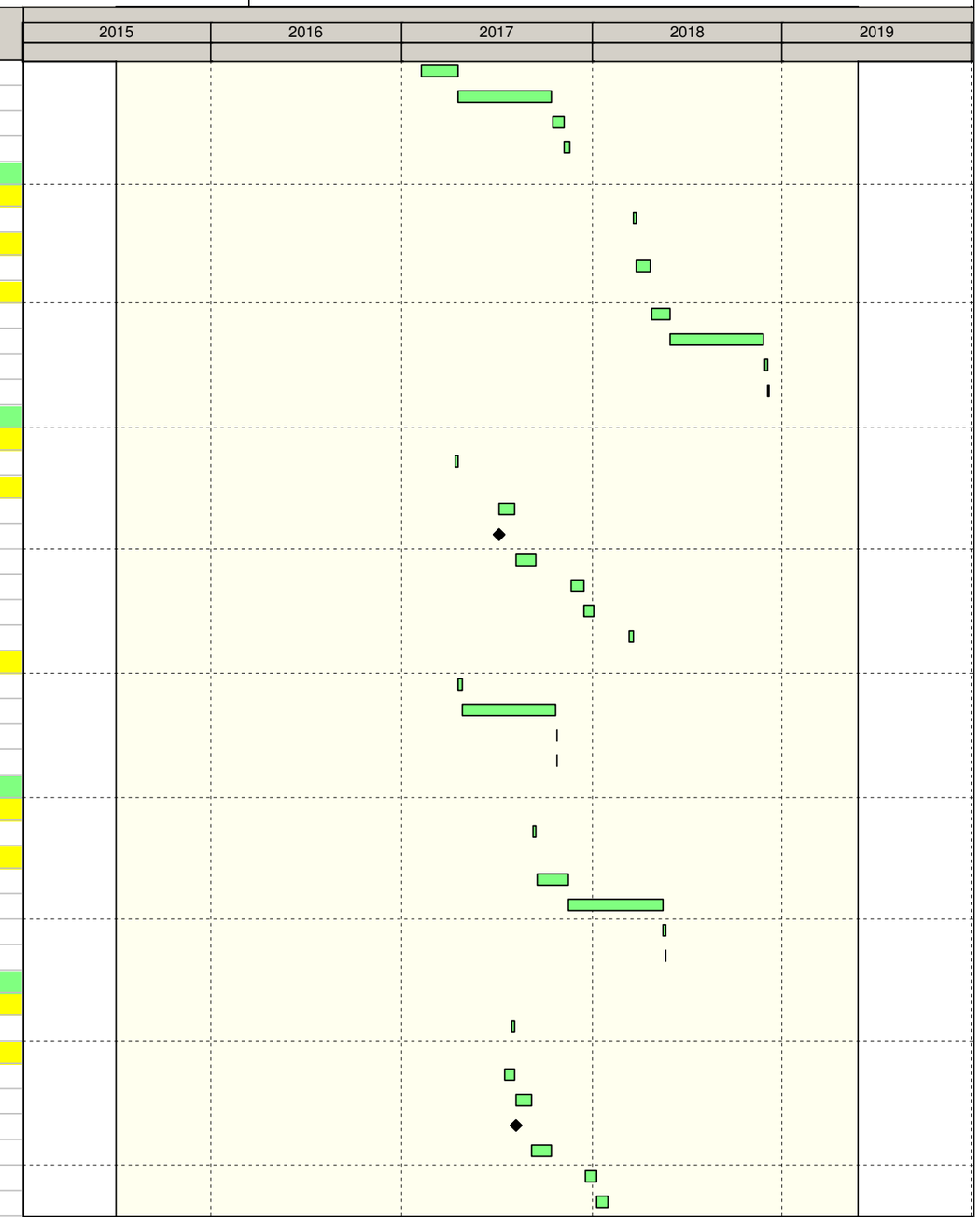
Activity ID	Activity Name	OD	Start	Finish
M1H16TE-110	H-1355+00 to H-1438+00, HST Track Common Fill	51	02/07/17	04/19/17
M1H16TE-120	H-1355+00 to H-1438+00, HST Track Common Fill, Surcharge Wait	180	04/20/17	10/16/17
M1H16TE-130	H-1355+00 to H-1438+00, HST Track Subgrade	16	10/17/17	11/07/17
M1H16TE-140	H-1355+00 to H-1438+00, HST Track AC	8	11/08/17	11/20/17
H-1438+00 to H-1460+00		**187**	**03/21/18**	**12/06/18**
Grubb and Demolition		**5**	**03/21/18**	**03/27/18**
M1H17C-1000	H-1438+00 to H-1460+00, Clear & Grubb	5	03/21/18	03/27/18
RCBC & Irrigation Relocation		**20**	**03/28/18**	**04/24/18**
M1H17BCA-100	H-1438+00 to H-1460+00, Precast Irrigation Culverts and Canal/Ditch Work	20	03/28/18	04/24/18
Track		**162**	**04/25/18**	**12/06/18**
M1H17TE-110	H-1438+00 to H-1460+00, HST Track Common Fill	26	04/25/18	05/31/18
M1H17TE-120	H-1438+00 to H-1460+00, HST Track Common Fill, Surcharge Wait	180	06/01/18	11/27/18
M1H17TE-130	H-1438+00 to H-1460+00, HST Track Subgrade	5	11/28/18	12/04/18
M1H17TE-140	H-1438+00 to H-1460+00, HST Track AC	2	12/05/18	12/06/18
SR43 H-5(Truss)		**246**	**04/13/17**	**03/22/18**
Grubb and Demolition		**5**	**04/13/17**	**04/19/17**
M1H18C-1000	Bridge H-5(SR-43 Truss) (H-1460+00 to H-1467+00), Clear & Grubb	5	04/13/17	04/19/17
Structure (1 span)		**186**	**07/06/17**	**03/22/18**
M1H18S-1010	Bridge H-5(SR-43 Truss), Foundations	22	07/06/17	08/04/17
M1H18S-0001	Bridge H-5(SR-43 Truss), Start Structure	0	07/06/17	
M1H18S-1030	Bridge H-5(SR-43 Truss), Wing Walls	28	08/07/17	09/14/17
M1H18S-1020	Bridge H-5(SR-43 Truss), Abutments	16	11/22/17	12/15/17
M1H18S-1080	Bridge H-5(SR-43 Truss), Cure Concrete	21	12/16/17	01/05/18
M1H18S-1110	Bridge H-5(SR-43 Truss), Set Steel Bridge	8	03/13/18	03/22/18
Track		**136**	**04/20/17**	**10/26/17**
M1H18TE-110	Bridge H-5(SR-43 Truss) (H-1460+00 to H-1467+00), HST Track Common Fill	6	04/20/17	04/27/17
M1H18TE-120	Bridge H-5(SR-43 Truss) (H-1460+00 to H-1467+00), HST Track Common Fill, ...	180	04/28/17	10/24/17
M1H18TE-130	Bridge H-5(SR-43 Truss) (H-1460+00 to H-1467+00), HST Track Subgrade	1	10/25/17	10/25/17
M1H18TE-140	Bridge H-5(SR-43 Truss) (H-1460+00 to H-1467+00), HST Track AC	1	10/26/17	10/26/17
H-1467+00 to H-1485+00		**184**	**09/11/17**	**05/24/18**
Grubb and Demolition		**5**	**09/11/17**	**09/15/17**
M1H19C-1000	H-1460+00 to H-1467+00, Clear & Grubb	5	09/11/17	09/15/17
Track		**179**	**09/18/17**	**05/24/18**
M1H19TE-110	H-1467+00 to H-1485+00, HST Track Common Fill	44	09/18/17	11/17/17
M1H19TE-120	H-1460+00 to H-1467+00, HST Track Common Fill, Surcharge Wait	180	11/18/17	05/16/18
M1H19TE-130	H-1467+00 to H-1458+00, HST Track Subgrade	4	05/17/18	05/22/18
M1H19TE-140	H-1467+00 to H-1485+00, HST Track AC	2	05/23/18	05/24/18
Cole Slough H-7(Truss)		**178**	**07/17/17**	**03/21/18**
Grubb and Demolition		**5**	**07/31/17**	**08/04/17**
M1H20C-1000	Bridge H-7(Cole Slough Truss) (H-1485+00 to H-1490+00), Clear & Grubb	5	07/31/17	08/04/17
Structure		**178**	**07/17/17**	**03/21/18**
M1H20S-0010	Bridge H-7(Cole Slough Truss), Foundation Testing	15	07/17/17	08/04/17
M1H20S-1010	Bridge H-7(Cole Slough Truss), Foundations	22	08/07/17	09/06/17
M1H20S-0001	Bridge H-7(Cole Slough Truss), Start Structure	0	08/07/17	
M1H20S-1030	Bridge H-7(Cole Slough Truss), Wing Walls	28	09/07/17	10/16/17
M1H20S-1020	Bridge H-7(Cole Slough Truss), Abutments	16	12/18/17	01/10/18
M1H20S-1080	Bridge H-7(Cole Slough Truss), Cure Concrete	21	01/11/18	01/31/18



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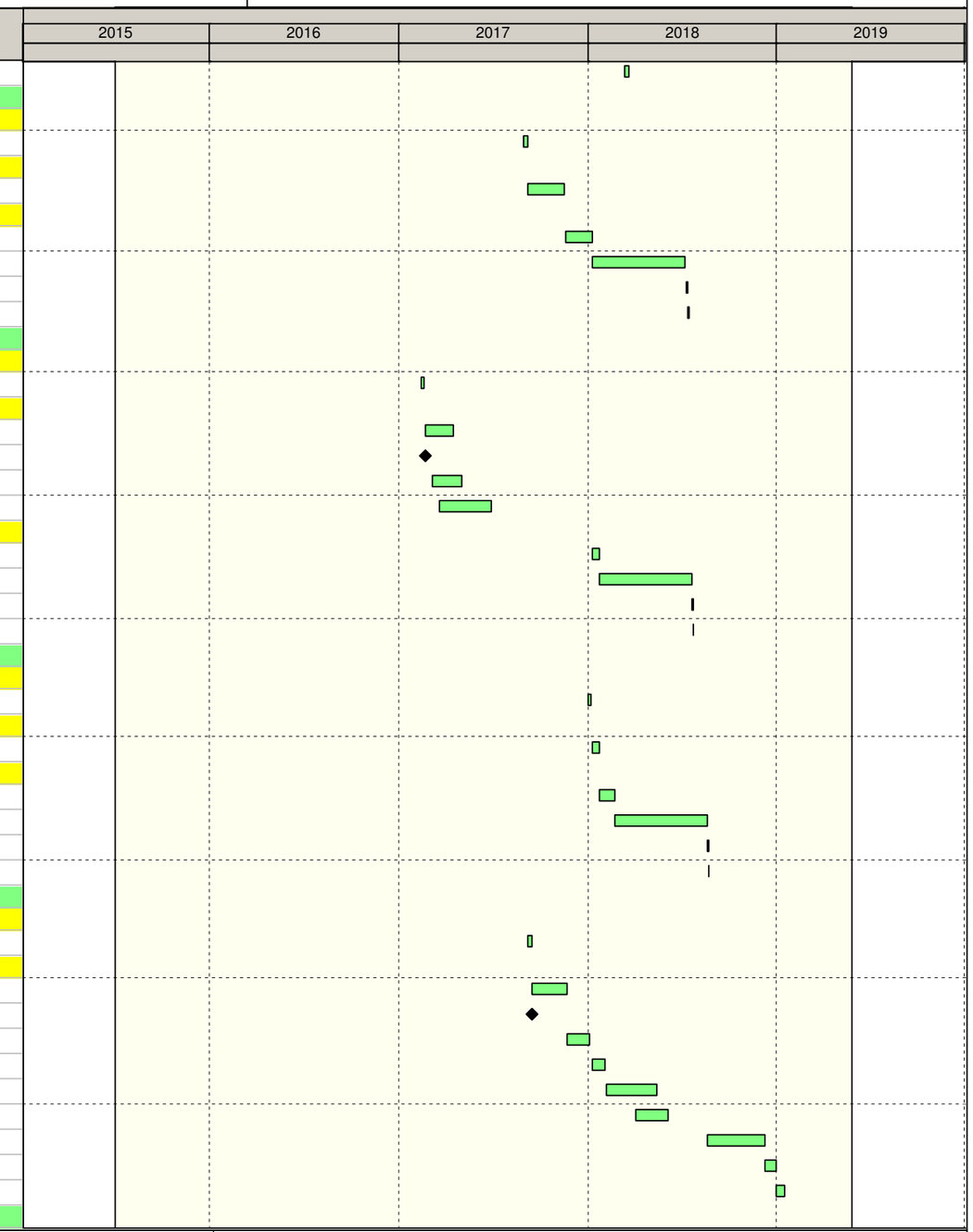
Activity ID	Activity Name	OD	Start	Finish
M1H20S-1110	Bridge H-7(Cole Slough Truss), Set Steel Bridge	7	03/13/18	03/21/18
H-1490+00 to H-1505+00		228	08/31/17	07/16/18
Grubb and Demolition		5	08/31/17	09/07/17
M1H21C-1000	H-1490+00 to H-1505+00, Clear & Grubb	5	08/31/17	09/07/17
RCBC & Irrigation Relocation		50	09/08/17	11/17/17
M1H21BC-100	H-1490+00 to H-1505+00, Precast Irrigation Culverts and Canal/Ditch Work	50	09/08/17	11/17/17
Track		171	11/20/17	07/16/18
M1H21TE-110	H-1490+00 to H-1505+00, HST Track Common Fill	34	11/20/17	01/10/18
M1H21TE-120	H-1490+00 to H-1505+00, HST Track Common Fill, Surcharge Wait	180	01/11/18	07/09/18
M1H21TE-130	H-1490+00 to H-1505+00, HST Track Subgrade	3	07/10/18	07/12/18
M1H21TE-140	H-1490+00 to H-1505+00, HST Track AC	2	07/13/18	07/16/18
Bridge H9 (Access Raod) (H-1505+00 to H-1510+00)		377	02/13/17	07/24/18
Grubb and Demolition		5	02/13/17	02/17/17
M1H22C-1000	Bridge H-9 (Access Road) (H-1505+00 to H-1510+00), Clear & Grubb	5	02/13/17	02/17/17
Structure		90	02/21/17	06/27/17
M1H22S-1020	Bridge H-9 (Access Road) ,F/R/P SOG	40	02/21/17	04/17/17
M1H22S-0001	Bridge H-9 (Access Road) , Start Structure (Box culvert)	0	02/21/17	
M1H22S-1060	Bridge H-9 (Access Road) ,F/R/P Walls	40	03/07/17	05/01/17
M1H22S-1070	Bridge H-9 (Access Road) ,F/R/P Roof	70	03/21/17	06/27/17
Track		139	01/11/18	07/24/18
M1H22TE-110	Bridge H-9 (Access Road) (H-1505+00 to H-1510+00),HST Track Common Fill	8	01/11/18	01/23/18
M1H22TE-120	Bridge H-9 (Access Road) (H-1505+00 to H-1510+00),HST Track Common Fill, ...	180	01/24/18	07/22/18
M1H22TE-130	Bridge H-9 (Access Road) (H-1505+00 to H-1510+00),HST Track Subgrade	1	07/23/18	07/23/18
M1H22TE-140	Bridge H-9 (Access Road) (H-1505+00 to H-1510+00),HST Track AC	1	07/24/18	07/24/18
H-1510+00 to H-1518+00		168	01/02/18	08/23/18
Grubb and Demolition		5	01/02/18	01/08/18
M1H23C-1000	H-1510+00 to H-1518+00, Clear & Grubb	5	01/02/18	01/08/18
RCBC & Irrigation Relocation		10	01/09/18	01/23/18
M1H23BC-100	H-1510+00 to H-1518+00, Precast Irrigation Culverts and Canal/Ditch Work	10	01/09/18	01/23/18
Track		152	01/24/18	08/23/18
M1H23TE-110	H-1510+00 to H-1518+00, HST Track Common Fill	20	01/24/18	02/21/18
M1H23TE-120	H-1510+00 to H-1518+00, HST Track Common Fill, Surcharge Wait	180	02/22/18	08/20/18
M1H23TE-130	H-1510+00 to H-1518+00, HST Track Subgrade	2	08/21/18	08/22/18
M1H23TE-140	H-1510+00 to H-1518+00, HST Track AC	1	08/23/18	08/23/18
Bridge H10 (Dutch John Creek) (H-1518+00 to H-1526+00)		356	09/08/17	01/18/19
Grubb and Demolition		5	09/08/17	09/14/17
M1H24C-1000	Bridge H-10 (Dutch John Cut Box & Truss), (H-1518+00 to H-1526+00), Clear & ...	5	09/08/17	09/14/17
Structure (5 Spans)		351	09/15/17	01/18/19
M1H24S-1010	Bridge H-10 (Dutch John Cut Box & Truss), Foundations	47	09/15/17	11/21/17
M1H24S-0001	Bridge H-10 (Dutch John Cut Box & Truss), Start Structure	0	09/15/17	
M1H24S-1030	Bridge H-10 (Dutch John Cut Box & Truss), Wing Walls	28	11/22/17	01/04/18
M1H24S-1020	Bridge H-10 (Dutch John Cut Box & Truss), Abutments	16	01/11/18	02/02/18
M1H24S-1040	Bridge H-10 (Dutch John Cut Box & Truss), F/R/P Columns	70	02/05/18	05/14/18
M1H24S-1050	Bridge H-10 (Dutch John Cut Box & Truss), Bent Caps	45	04/03/18	06/05/18
M1H24S-1110	Bridge H-10 (Dutch John Cut Box & Truss), F/R/P Box Girders	76	08/21/18	12/10/18
M1H24S-1080	Bridge H-10 (Dutch John Cut Box & Truss), Cure Concrete	21	12/11/18	12/31/18
M1H24S-1120	Bridge H-10 (Dutch John Cut Box & Truss), Set Steel Trusses	13	01/02/19	01/18/19
H-1526+00 to H-1540+00		297	10/17/17	12/05/18



Remaining Level of Effort
Actual Work
Remaining Work
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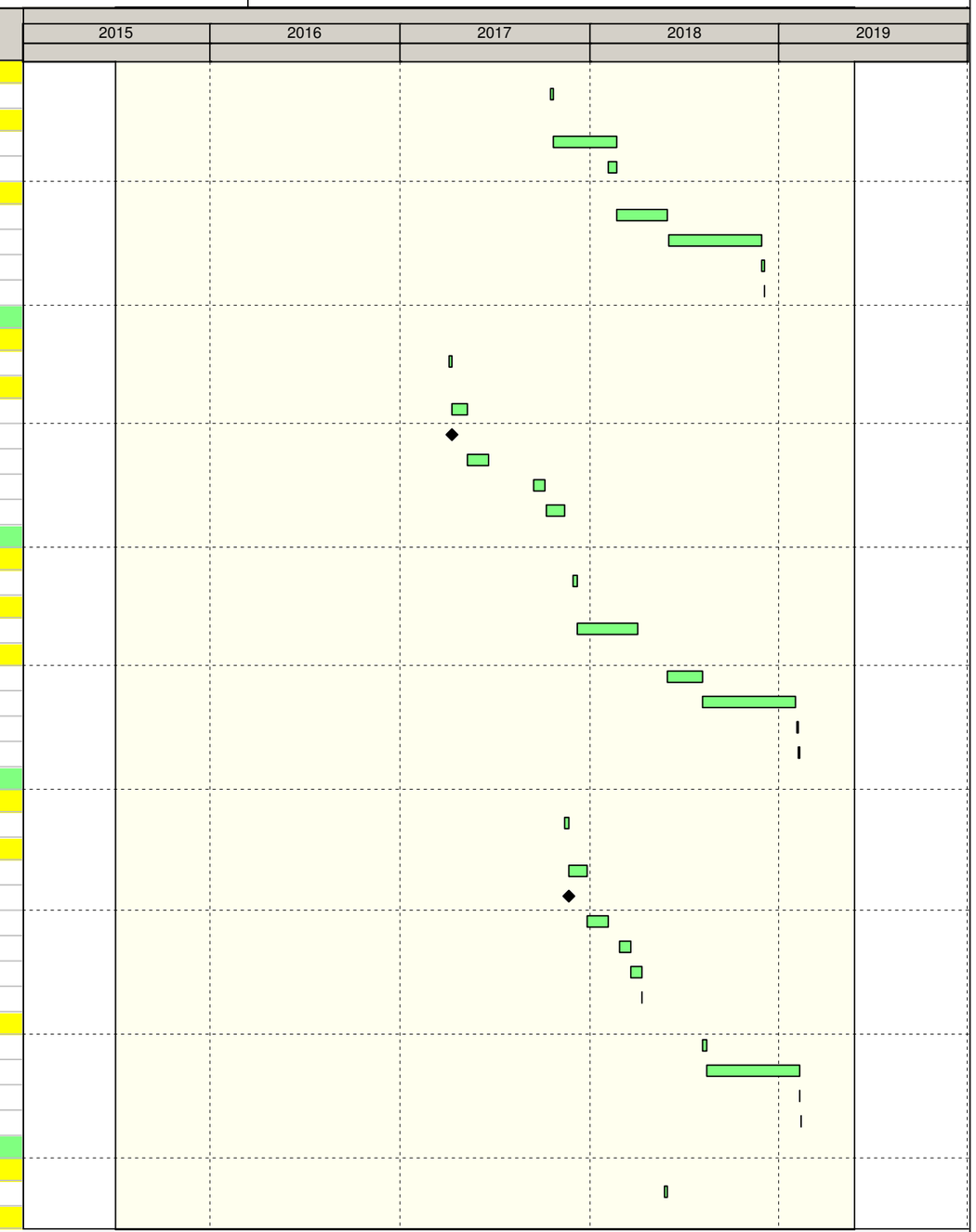
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
Grubb and Demolition		5	10/17/17	10/23/17
M1H25C-1000	H-1526+00 to H-1540+00, Clear & Grubb	5	10/17/17	10/23/17
RCBC & Irrigation Relocation		80	10/24/17	02/21/18
M1H25BC-100	H-1526+00 to H-1540+00, CIP Box Culvert	80	10/24/17	02/21/18
M1H25BC-110	H-1526+00 to H-1540+00, Precast Irrigation Culverts and Canal/Ditch Work	10	02/07/18	02/21/18
Track		205	02/22/18	12/05/18
M1H25TE-110	H-1526+00 to H-1540+00, HST Track Common Fill	71	02/22/18	06/01/18
M1H25TE-120	H-1526+00 to H-1540+00, HST Track Common Fill, Surcharge Wait	180	06/02/18	11/28/18
M1H25TE-130	H-1526+00 to H-1540+00, HST Track Subgrade	3	11/29/18	12/03/18
M1H25TE-140	H-1526+00 to H-1540+00, HST Track AC	2	12/04/18	12/05/18
Bridge H11(9th Ave Box Girder) (H-1540+00 to H-1541+00)		157	04/04/17	11/14/17
Grubb and Demolition		5	04/04/17	04/10/17
M1H26C-1000	Bridge H-11(9th Ave Box Girder) (H-1540+00 to H-1541+00), Clear & Grubb	5	04/04/17	04/10/17
Structure		152	04/11/17	11/14/17
M1H26S-1010	Bridge H-11(9th Ave Box Girder), Foundations	22	04/11/17	05/10/17
M1H26S-0001	Bridge H-11(9th Ave Box Girder), Start Structure	0	04/11/17	
M1H26S-1030	Bridge H-11(9th Ave Box Girder), Wing Walls	28	05/11/17	06/20/17
M1H26S-1020	Bridge H-11(9th Ave Box Girder), Abutments	16	09/15/17	10/06/17
M1H26S-1110	Bridge H-11(9th Ave Box Girder), F/R/P Box Girders	26	10/09/17	11/14/17
H-1541+00 to H-1560+00		312	12/01/17	02/11/19
Grubb and Demolition		5	12/01/17	12/07/17
M1H27C-1000	H-1541+00 to H-1560+00, Clear & Grubb	5	12/01/17*	12/07/17
RCBC & Irrigation Relocation		80	12/08/17	04/04/18
M1H27BC-100	H-1541+00 to H-1560+00, CIP Box Culvert	80	12/08/17	04/04/18
Track		182	06/01/18	02/11/19
M1H27TE-110	H-1541+00 to H-1560+00, HST Track Common Fill (FLOOD)	46	06/01/18	08/06/18
M1H27TE-120	H-1541+00 to H-1560+00, HST Track Common Fill, Surcharge Wait	180	08/07/18	02/02/19
M1H27TE-130	H-1541+00 to H-1560+00, HST Track Subgrade	4	02/04/19	02/07/19
M1H27TE-140	H-1541+00 to H-1560+00, HST Track AC	2	02/08/19	02/11/19
Bridge H12(Cairo Box Beam) (H-1560+00 to H-1563+00)		325	11/15/17	02/12/19
Grubb and Demolition		5	11/15/17	11/21/17
M1H28C-1000	Bridge H-12(Cairo PC Box Beam) (H-1560+00 to H-1563+00), Clear & Grubb	5	11/15/17	11/21/17
Structure		103	11/22/17	04/13/18
M1H28S-1010	Bridge H-12(Cairo PC Box Beam) , Foundations	22	11/22/17	12/26/17
M1H28S-0001	Bridge H-12(Cairo PC Box Beam) , Start Structure	0	11/22/17	
M1H28S-1030	Bridge H-12(Cairo PC Box Beam) , Wing Walls	28	12/27/17	02/06/18
M1H28S-1020	Bridge H-12(Cairo PC Box Beam) , Abutments	16	02/28/18	03/21/18
M1H28S-1080	Bridge H-12(Cairo PC Box Beam) , Cure Concrete	21	03/22/18	04/11/18
M1H28S-1110	Bridge H-12(Cairo PC Box Beam) , Set Box Gider	2	04/12/18	04/13/18
Track		136	08/07/18	02/12/19
M1H28TE-110	Bridge H-12(Cairo PC Box Beam) (H-1560+00 to H-1563+00), HST Track Com...	6	08/07/18	08/14/18
M1H28TE-120	Bridge H-12(Cairo PC Box Beam) (H-1560+00 to H-1563+00), HST Track Com...	180	08/15/18	02/10/19
M1H28TE-130	Bridge H-12(Cairo PC Box Beam) (H-1560+00 to H-1563+00), HST Track Subgr...	1	02/11/19	02/11/19
M1H28TE-140	Bridge H-12(Cairo PC Box Beam) (H-1560+00 to H-1563+00), HST Track AC	1	02/12/19	02/12/19
H-1563+00 to 1581+00		229	05/25/18	04/10/19
Grubb and Demolition		5	05/25/18	06/01/18
M1H29C-1000	H-1563+00 to H-1581+00, Clear & Grubb	5	05/25/18	06/01/18
Track		223	06/04/18	04/10/19



Remaining Level of Effort
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California High-Speed Rail Program
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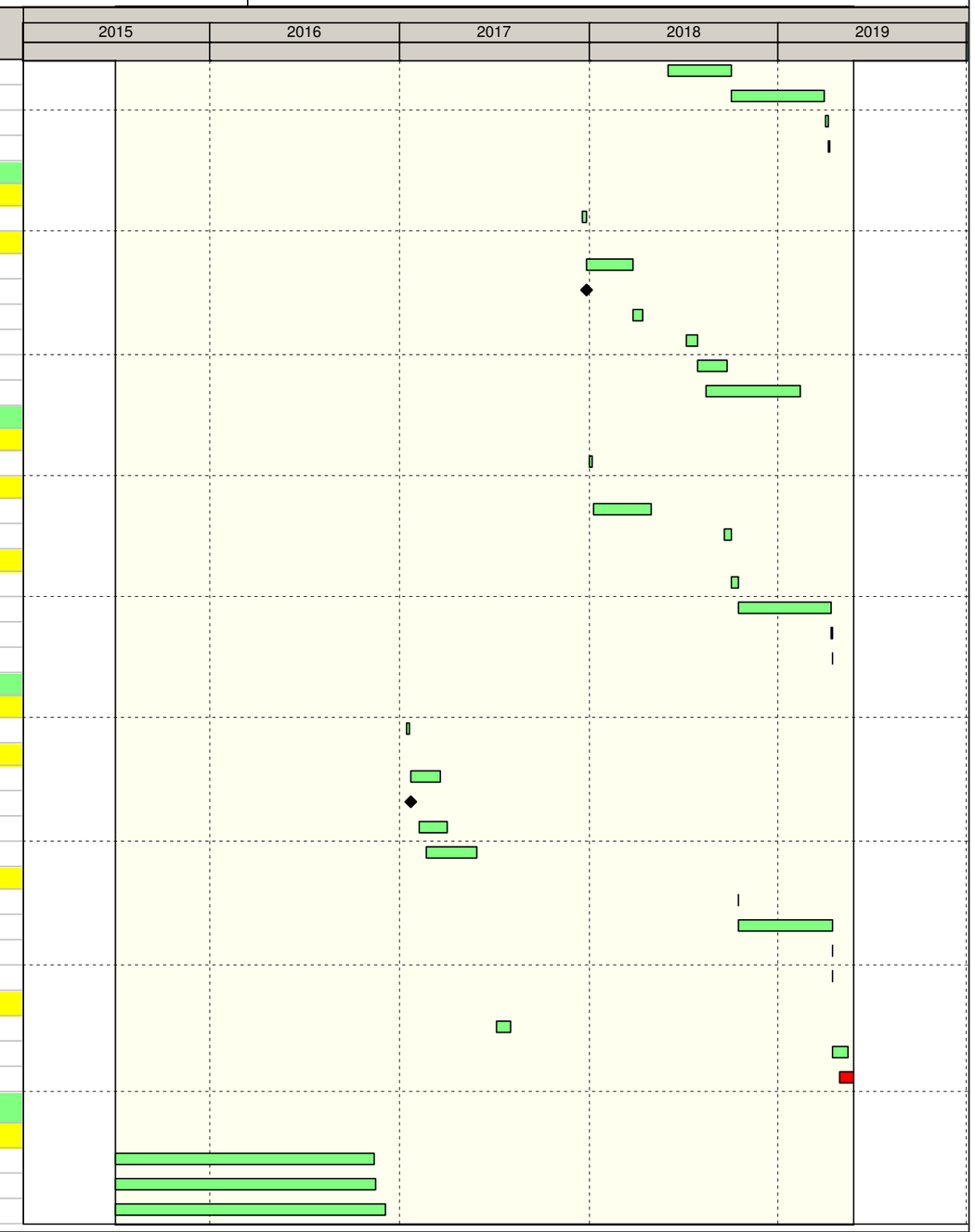
Activity ID	Activity Name	OD	Start	Finish
M1H29TE-110	H-1563+00 to H-1581+00, HST Track Common Fill	86	06/04/18	10/03/18
M1H29TE-120	H-1563+00 to H-1581+00, HST Track Common Fill, Surcharge Wait	180	10/04/18	04/01/19
M1H29TE-130	H-1563+00 to H-1581+00, HST Track Subgrade	5	04/02/19	04/08/19
M1H29TE-140	H-1563+00 to H-1581+00, HST Track AC	2	04/09/19	04/10/19
Bridge H13(Kings River) (H-1581+00 to H-1588+00)		290	12/19/17	02/14/19
Grubb and Demolition		5	12/19/17	12/26/17
M1H30C-1000	Bridge H-13(Kings River Viaduct) (H-1581+00 to H-1588+00), Clear & Grubb	5	12/19/17	12/26/17
Structure (5 Spans)		285	12/27/17	02/14/19
M1H30S-1010	Bridge H-13(Kings River Viaduct), Foundations	62	12/27/17	03/27/18
M1H30S-0001	Bridge H-13(Kings River Viaduct), Start Structure	0	12/27/17	
M1H30S-1030	Bridge H-13(Kings River Viaduct), Wing Walls	14	03/28/18	04/16/18
M1H30S-1020	Bridge H-13(Kings River Viaduct), Abutments	16	07/09/18	07/30/18
M1H30S-1040	Bridge H-13(Kings River Viaduct), F/R/P Columns	40	07/31/18	09/25/18
M1H30S-1075	Bridge H-13(Kings River Viaduct), F/R/P Box Girders	126	08/14/18	02/14/19
H-1588+00 to H-1594+00		336	01/02/18	04/16/19
Grubb and Demolition		5	01/02/18	01/08/18
M1H31C-1000	H-1588+00 to H-1594+00, Clear & Grubb	5	01/02/18*	01/08/18
RCBC & Irrigation Relocation		187	01/09/18	10/03/18
M1H31BC-100	H-1588+00 to H-1594+00, CIP Box Culvert	80	01/09/18	05/02/18
M1H31BC-110	H-1588+00 to H-1594+00, Precast Irrigation Culverts and Canal/Ditch Work	10	09/20/18	10/03/18
Track		139	10/04/18	04/16/19
M1H31TE-110	H-1588+00 to H-1594+00, HST Track Common Fill (FLOOD)	8	10/04/18	10/15/18
M1H31TE-120	H-1588+00 to H-1594+00, HST Track Common Fill, Surcharge Wait	180	10/16/18	04/13/19
M1H31TE-130	H-1588+00 to H-1594+00, HST Track Subgrade	1	04/15/19	04/15/19
M1H31TE-140	H-1588+00 to H-1594+00, HST Track AC	1	04/16/19	04/16/19
H-1594+00 to H-1595+00 (Bridge H14)		589	01/13/17	04/17/19
Grubb and Demolition		5	01/13/17	01/20/17
M1H32C-1000	Bridge H-14 (H-1594+00 to H-1595+00), Clear & Grubb	5	01/13/17	01/20/17
Structure		90	01/23/17	05/30/17
M1H32S-1020	Bridge H-14 (H-1594+00 to H-1595+00), F/R/P SOG	40	01/23/17	03/20/17
M1H32S-0001	Bridge H-14 (H-1594+00 to H-1595+00), Start Structure (Box culvert)	0	01/23/17	
M1H32S-1060	Bridge H-14 (H-1594+00 to H-1595+00), F/R/P Walls	40	02/06/17	04/03/17
M1H32S-1070	Bridge H-14 (H-1594+00 to H-1595+00), F/R/P Roof	70	02/21/17	05/30/17
Track		132	10/16/18	04/17/19
M1H32TE-110	Bridge H-14 (H-1594+00 to H-1595+00), HST Track Common Fill (FLOOD)	2	10/16/18	10/17/18
M1H32TE-120	Bridge H-14 (H-1594+00 to H-1595+00), HST Track Common Fill, Surcharge Wait	180	10/18/18	04/15/19
M1H32TE-130	Bridge H-14 (H-1594+00 to H-1595+00), HST Track Subgrade	1	04/16/19	04/16/19
M1H32TE-140	Bridge H-14 (H-1594+00 to H-1595+00), HST Track AC	1	04/17/19	04/17/19
Punchlist		475	07/06/17	05/28/19
M1F1-PUNCH	Punchlist - Alignment F1	20	07/06/17	08/02/17
M1H-PUNCH	Punchlist - Alignment H	20	04/18/19	05/15/19
M1M-PUNCH	Punchlist - Alignment M	20	04/30/19	05/28/19
Management Segment 2 (1595+00 to 2595+00)		1020	07/01/15	05/28/19
Permits		523	07/01/15	12/04/16
M2-USACE1010	Managment Segment 2 Permits-USACE 404	500	07/01/15	11/11/16
M2-CVFPB1000	Managment Segment 2 Permits-CVFPB/ FEMA CLOMR	505	07/01/15	11/16/16
M2-IRRIG1000	Managment Segment 2 Permits-Irrigation Districts	523	07/01/15	12/04/16



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California High-Speed Rail Program
Construction Package 2-3
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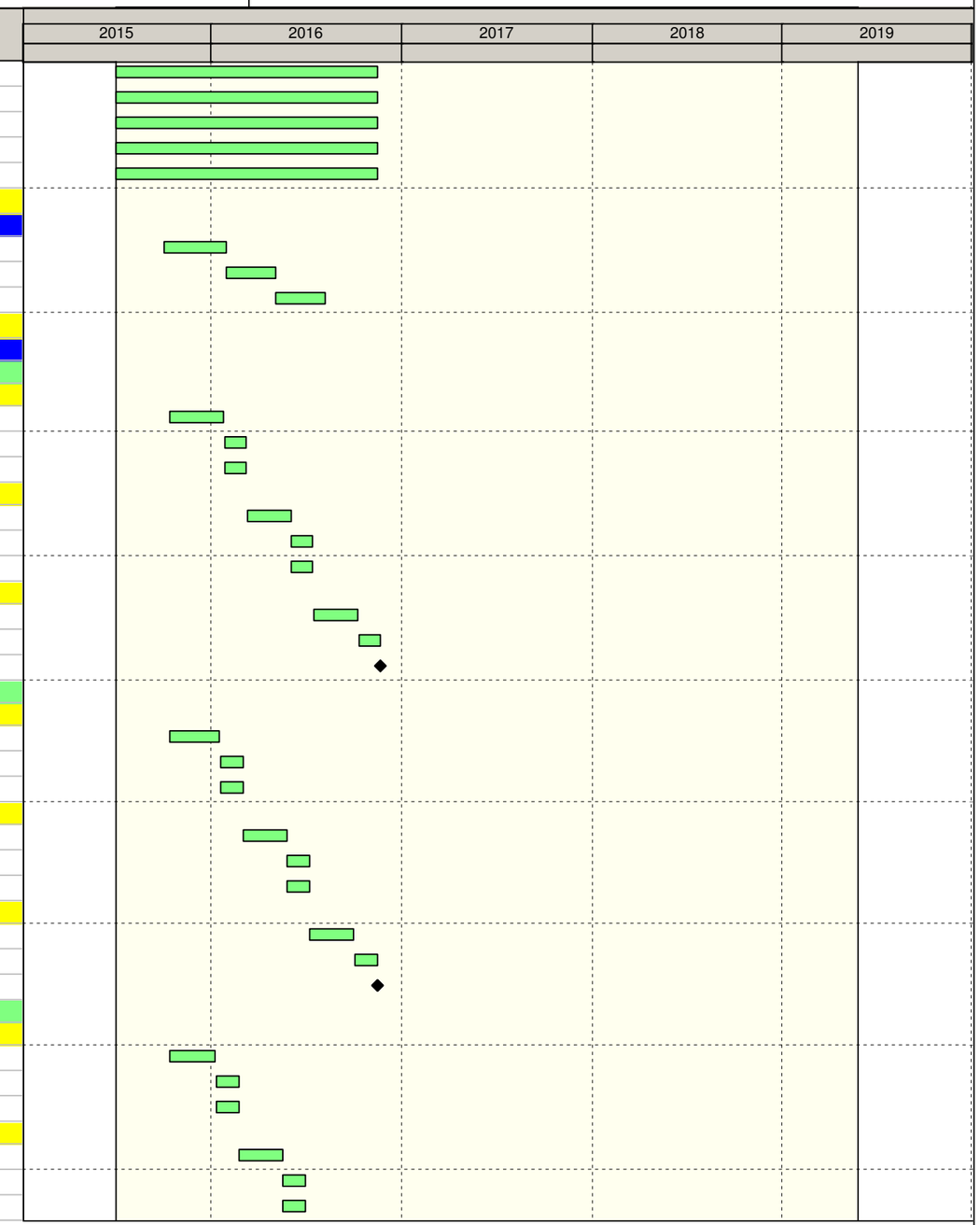
Activity ID	Activity Name	OD	Start	Finish
M2-UTIL1010	Managment Segment 2 Permits-Utilities SDG&E	505	07/01/15	11/16/16
M2-UTIL1020	Managment Segment 2 Permits-Utilities SEMPRA	505	07/01/15	11/16/16
M2-SWRCB1000	Managment Segment 2 Permits-SWRCB Section 402 - NPDES	505	07/01/15	11/16/16
M2-CDFW1000	Managment Segment 2 Permits-CDFW Section 1602 Streambed Alteration Agre...	505	07/01/15	11/16/16
M2-UTIL1000	Managment Segment 2 Permits-Utilities PG&E	505	07/01/15	11/16/16
Geotech-1		213	10/01/15	08/05/16
GDR for Embankment		213	10/01/15	08/05/16
M2EMBGEO-100FI	Geotech, Segment 2, Embankment GDR, Field Investigations	80	10/01/15	01/28/16
M2EMBGEO-100DR	Geotech, Segment 2, Embankment GDR, P/S and R/A Draft Report	66	01/29/16	05/02/16
M2EMBGEO-100FR	Geotech, Segment 2, Embankment GDR, P/S and R/A Final Report	67	05/03/16	08/05/16
Design		531	07/01/15	07/12/17
Civil		288	10/13/15	12/05/16
Utilities		280	10/13/15	11/21/16
60% Design		100	10/13/15	03/08/16
M2UTD-060S	Utility Package, Segment 2, 60% Design, P/S	70	10/13/15	01/25/16
M2UTD-060R	Utility Package, Segment 2, 60% Design, Authority R/A	30	01/26/16	03/08/16
M2UTD-060AGN	Utility Package, Segment 2, 60 % Design, 3rd Party R/A	30	01/26/16	03/08/16
90% Design		90	03/09/16	07/14/16
M2UTD-090S	Utility Package, Segment 2, 90% Design, P/S	60	03/09/16	06/01/16
M2UTD-090R	Utility Package, Segment 2, 90% Design, Authority R/A	30	06/02/16	07/14/16
M2UTD-090AGN	Utility Package, Segment 2, 90 % Design, 3rd Party R/A	30	06/02/16	07/14/16
RFC		90	07/15/16	11/21/16
M2UTD-100S	Utility Package, Segment 2, RFC Design, P/S	60	07/15/16	10/07/16
M2UTD-100R	Utility Package, Segment 2, RFC Design, Authority R/A	30	10/10/16	11/21/16
M2UTD-100A	Utility Package, Segment 2, RFC Design, Approved	0		11/21/16
Rail Embankment		275	10/13/15	11/14/16
60% Design		95	10/13/15	03/01/16
M2RED-060S	Rail Embankment Package, Segment 2, 60% Design, P/S	65	10/13/15	01/15/16
M2RED-060R	Rail Embankment Package, Segment 2, 60% Design, Authority R/A	30	01/19/16	03/01/16
M2RED-060AGN	Rail Embankment Package, Segment 2, 60% Design, 3rd Party R/A	30	01/19/16	03/01/16
90% Design		90	03/02/16	07/07/16
M2RED-090S	Rail Embankment Package, Segment 2, 90% Design, P/S	60	03/02/16	05/24/16
M2RED-090R	Rail Embankment Package, Segment 2, 90% Design, Authority R/A	30	05/25/16	07/07/16
M2RED-090AGN	Rail Embankment Package, Segment 2, 90% Design, 3rd Party R/A	30	05/25/16	07/07/16
RFC		90	07/08/16	11/14/16
M2RED-100S	Rail Embankment Package, Segment 2, RFC Design, P/S	60	07/08/16	09/30/16
M2RED-100R	Rail Embankment Package, Segment 2, RFC Design, Authority R/A	30	10/03/16	11/14/16
M2RED-100A	Rail Embankment Package, Segment 2, RFC Design, Approved	0		11/14/16
Irrigation Canals		288	10/13/15	12/05/16
60% Design		90	10/13/15	02/23/16
M2IRD-060S	Irrigation Package, Segment 2, 60% Design, P/S	60	10/13/15	01/08/16
M2IRD-060R	Irrigation Package, Segment 2, 60% Design, Authority R/A	30	01/11/16	02/23/16
M2IRD-060AGN	Irrigation Package, Segment 2, 60% Design, 3rd Party R/A	30	01/11/16	02/23/16
90% Design		90	02/24/16	06/29/16
M2IRD-090S	Irrigation Package, Segment 2, 90% Design, P/S	60	02/24/16	05/17/16
M2IRD-090R	Irrigation Package, Segment 2, 90% Design, Authority R/A	30	05/18/16	06/29/16
M2IRD-090AGN	Irrigation Package, Segment 2, 90% Design, 3rd Party R/A	30	05/18/16	06/29/16



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California High-Speed Rail Program
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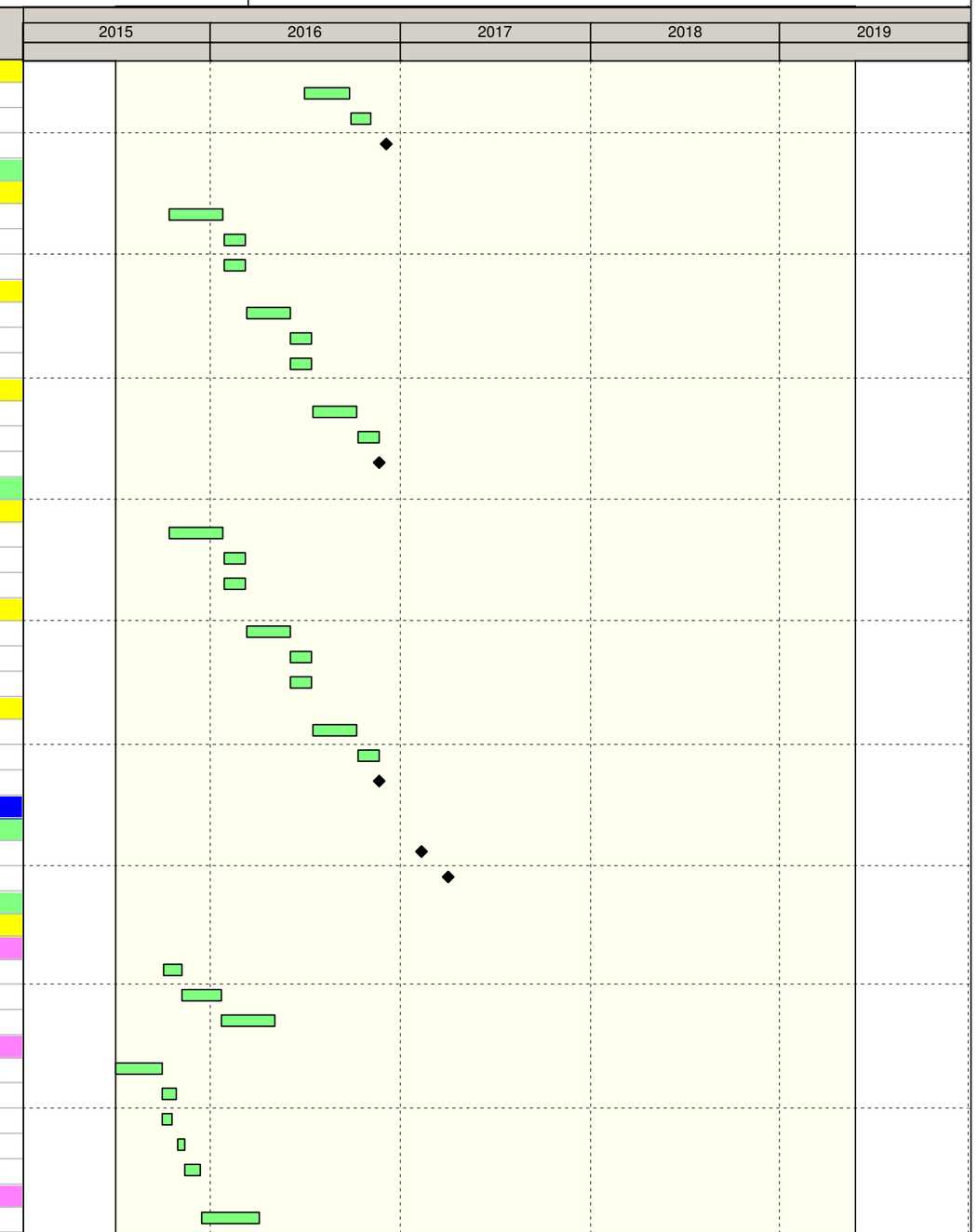
Activity ID	Activity Name	OD	Start	Finish
RFC		108	06/30/16	12/05/16
M2IRD-100S	Irrigation Package, Segment 2, RFC Design, P/S	60	06/30/16	09/23/16
M2IRD-100R	Irrigation Package, Segment 2, RFC Design, Authority R/A	30	09/26/16	11/04/16
M2IRD-100A	Irrigation Package, Segment 2, RFC Design, Approved	0		12/05/16
Caltrans Roadway		280	10/13/15	11/21/16
60% Design		100	10/13/15	03/08/16
M2CRWD-060S	CALTRANS Roadway Package, Segment 2, 60% Design, P/S	70	10/13/15	01/25/16
M2CRWD-060R	CALTRANS Roadway Package, Segment 2, 60% Design, Authority R/A	30	01/26/16	03/08/16
M2CRWD-060AGN	CALTRANS Roadway Package, Segment 2, 60 % Design, 3rd Party R/A	30	01/26/16	03/08/16
90% Design		90	03/09/16	07/14/16
M2CRWD-090S	CALTRANS Roadway Package, Segment 2, 90% Design, P/S	60	03/09/16	06/01/16
M2CRWD-090R	CALTRANS Roadway Package, Segment 2, 90% Design, Authority R/A	30	06/02/16	07/14/16
M2CRWD-090AGN	CALTRANS Roadway Package, Segment 2, 90 % Design, 3rd Party R/A	30	06/02/16	07/14/16
RFC		90	07/15/16	11/21/16
M2CRWD-100S	CALTRANS Roadway Package, Segment 2, RFC Design, P/S	60	07/15/16	10/07/16
M2CRWD-100R	CALTRANS Roadway Package, Segment 2, RFC Design, Authority R/A	30	10/10/16	11/21/16
M2CRWD-100A	CALTRANS Roadway Package, Segment 2, RFC Design, Approved	0		11/21/16
Roadway		280	10/13/15	11/21/16
60% Design		100	10/13/15	03/08/16
M2LRWD-060S	Local Roadway Package, Segment 2, 60% Design, P/S	70	10/13/15	01/25/16
M2LRWD-060R	Local Roadway Package, Segment 2, 60% Design, Authority R/A	30	01/26/16	03/08/16
M2LRWD-060AGN	Local Roadway Package, Segment 2, 60 % Design, 3rd Party R/A	30	01/26/16	03/08/16
90% Design		90	03/09/16	07/14/16
M2LRWD-090S	Local Roadway Package, Segment 2, 90% Design, P/S	60	03/09/16	06/01/16
M2LRWD-090R	Local Roadway Package, Segment 2, 90% Design, Authority R/A	30	06/02/16	07/14/16
M2LRWD-090AGN	Local Roadway Package, Segment 2, 90 % Design, 3rd Party R/A	30	06/02/16	07/14/16
RFC		90	07/15/16	11/21/16
M2LRWD-100S	Local Roadway Package, Segment 2, RFC Design, P/S	60	07/15/16	10/07/16
M2LRWD-100R	Local Roadway Package, Segment 2, RFC Design, Authority R/A	30	10/10/16	11/21/16
M2LRWD-100A	Local Roadway Package, Segment 2, RFC Design, Approved	0		11/21/16
Structures		531	07/01/15	07/12/17
Railroad & CPUC Submittal		34	02/10/17	04/03/17
M2H47BD-030CPUCA	SR-43 over SJVRR, CPUC Approval	0		02/10/17
M2H47AD-030CPUCA	Bridge H-17 (HST over SJVRR), CPUC Approval	0		04/03/17
Grade Separation		494	07/01/15	05/22/17
Dover Ave (1654+01)		408	07/01/15	01/20/17
Geotech		147	10/01/15	05/03/16
M1H35D-GEO060F	Dover Ave Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M1H35D-GEO060	Dover Ave Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M1H35D-GEO100	Dover Ave Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M1H35D-030S	Dover Ave Type Selection Report, P/S	62	07/01/15	09/28/15
M1H35D-030R	Dover Ave Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M1H35D-030AGN	Dover Ave Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M1H35D-030CMN	Dover Ave Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M1H35D-030TYPE	Dover Ave Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		122	12/14/15	05/31/16
M1H35D-060S	Dover Ave 60% Bridge Design, P/S	77	12/14/15	04/04/16

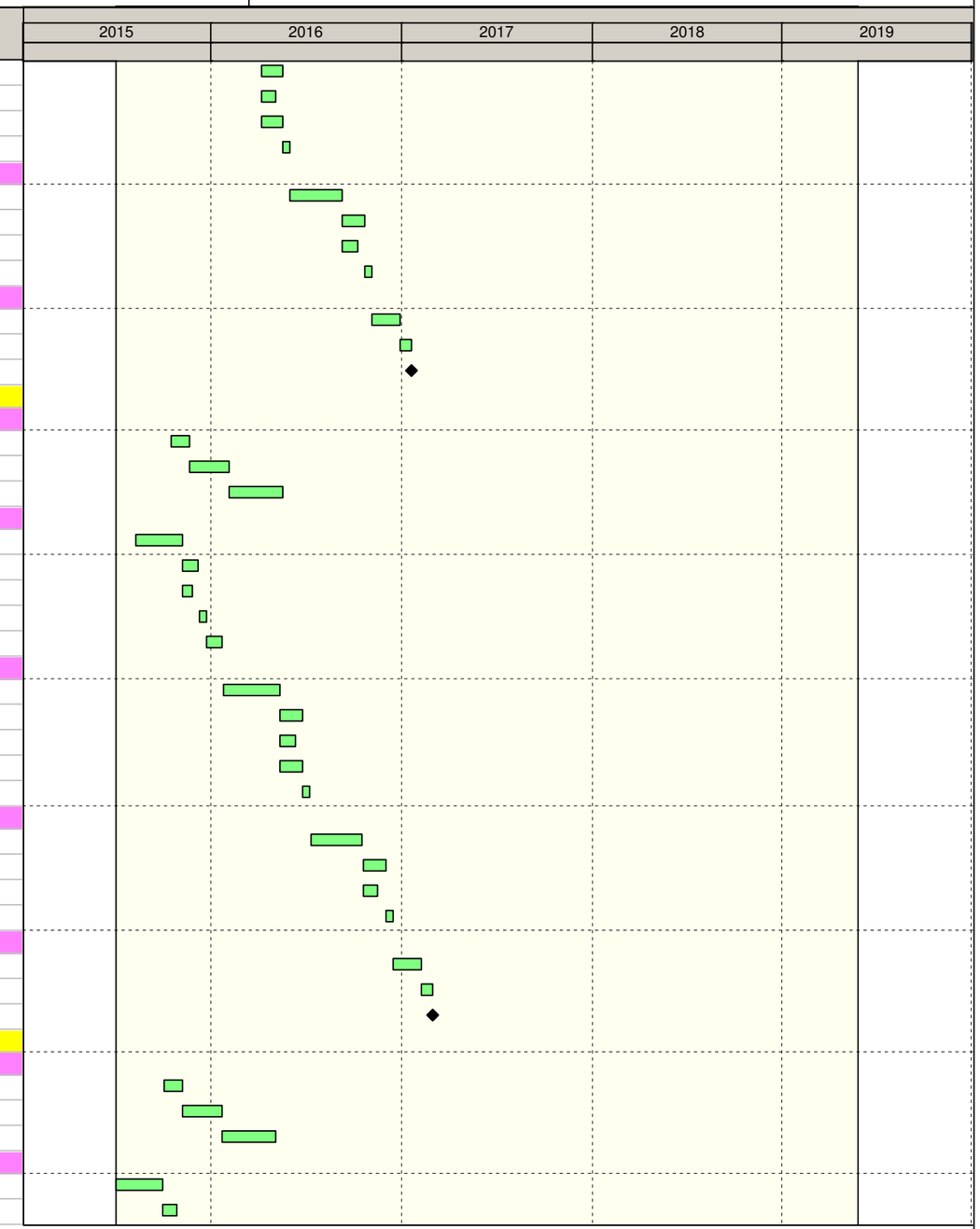


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M1H35D-060R	Dover Ave 60% Bridge Design, Authority R/A	30	04/05/16	05/16/16
M1H35D-060AGN	Dover Ave 60% Bridge Design, 3rd Party R/A	30	04/05/16	05/04/16
M1H35D-060IND	Dover Ave 60% Bridge Design, Independent Check	30	04/05/16	05/16/16
M1H35D-060CMNT	Dover Ave 60% Bridge Design, Comments Resolution	10	05/17/16	05/31/16
90% Design		112	06/01/16	11/03/16
M1H35D-090S	Dover Ave 90% Bridge Design, P/S	70	06/01/16	09/08/16
M1H35D-090R	Dover Ave 90% Bridge Design, Authority R/A	30	09/09/16	10/20/16
M1H35D-090AGN	Dover Ave 90% Bridge Design, 3rd Party R/A	30	09/09/16	10/08/16
M1H35D-090CMNT	Dover Ave 90% Bridge Design, Comments Resolution	10	10/21/16	11/03/16
RFC		50	11/04/16	01/20/17
M1H35D-100S	Dover Ave RFC Bridge Design-P/S	35	11/04/16	12/28/16
M1H35D-100R	Dover Ave RFC Bridge Design, Authority R/A	15	12/29/16	01/20/17
M2H35D-100A	Dover Ave. RFC Bridge Design-Approved	0		01/20/17
Excelsior Ave (1706+67)		408	08/10/15	03/01/17
Geotech		147	10/16/15	05/17/16
M2H37D-GEO060F	Excelsior Ave Geotech, Field Testing & Lab work	25	10/16/15	11/19/15
M2H37D-GEO060	Excelsior Ave Geotech, P/S and R/A DFR	50	11/20/15	02/04/16
M2H37D-GEO100	Excelsior Ave Geotech, P/S and R/A FFR	72	02/05/16	05/17/16
Type Selection		120	08/10/15	01/22/16
M2H37D-030S	Excelsior Ave Type Selection Report, P/S	62	08/10/15	11/05/15
M2H37D-030R	Excelsior Ave Type Selection Report, Authority R/A	20	11/06/15	12/07/15
M2H37D-030AGN	Excelsior Ave Type Selection Report, 3rd Party R/A	20	11/06/15	11/25/15
M2H37D-030CMN	Excelsior Ave Type Selection Report, Comments Resolution	10	12/08/15	12/21/15
M2H37D-030TYPE	Excelsior Ave Type Selection Report, Meeting and Approval	21	12/22/15	01/22/16
60% Design		120	01/25/16	07/08/16
M2H37D-060S	Excelsior Ave 60% Bridge Design, P/S	77	01/25/16	05/11/16
M2H37D-060R	Excelsior Ave 60% Bridge Design, Authority R/A	30	05/12/16	06/23/16
M2H37D-060AGN	Excelsior Ave 60% Bridge Design, 3rd Party R/A	30	05/12/16	06/10/16
M2H37D-060IND	Excelsior Ave 60% Bridge Design, Independent Check	30	05/12/16	06/23/16
M2H37D-060CMNT	Excelsior Ave 60% Bridge Design, Comments Resolution	10	06/24/16	07/08/16
90% Design		114	07/11/16	12/15/16
M2H37D-090S	Excelsior Ave 90% Bridge Design, P/S	70	07/11/16	10/17/16
M2H37D-090R	Excelsior Ave 90% Bridge Design, Authority R/A	30	10/18/16	12/01/16
M2H37D-090AGN	Excelsior Ave 90% Bridge Design, 3rd Party R/A	30	10/18/16	11/16/16
M2H37D-090CMNT	Excelsior Ave 90% Bridge Design, Comments Resolution	10	12/02/16	12/15/16
RFC		50	12/16/16	03/01/17
M2H37D-100S	Excelsior Ave RFC Bridge Design-P/S	35	12/16/16	02/07/17
M2H37D-100R	Excelsior Ave RFC Bridge Design, Authority R/A	15	02/08/17	03/01/17
M2H37D-100A	Excelsior Ave RFC Bridge Design-Approved	0		03/01/17
Elder Ave. (1760+98)		408	07/01/15	01/20/17
Geotech		147	10/01/15	05/03/16
M2H39D-GEO060F	Elder Ave Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M2H39D-GEO060	Elder Ave Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M2H39D-GEO100	Elder Ave Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M2H39D-030S	Elder Ave Type Selection Report, P/S	62	07/01/15	09/28/15
M2H39D-030R	Elder Ave Type Selection Report, Authority R/A	20	09/29/15	10/27/15

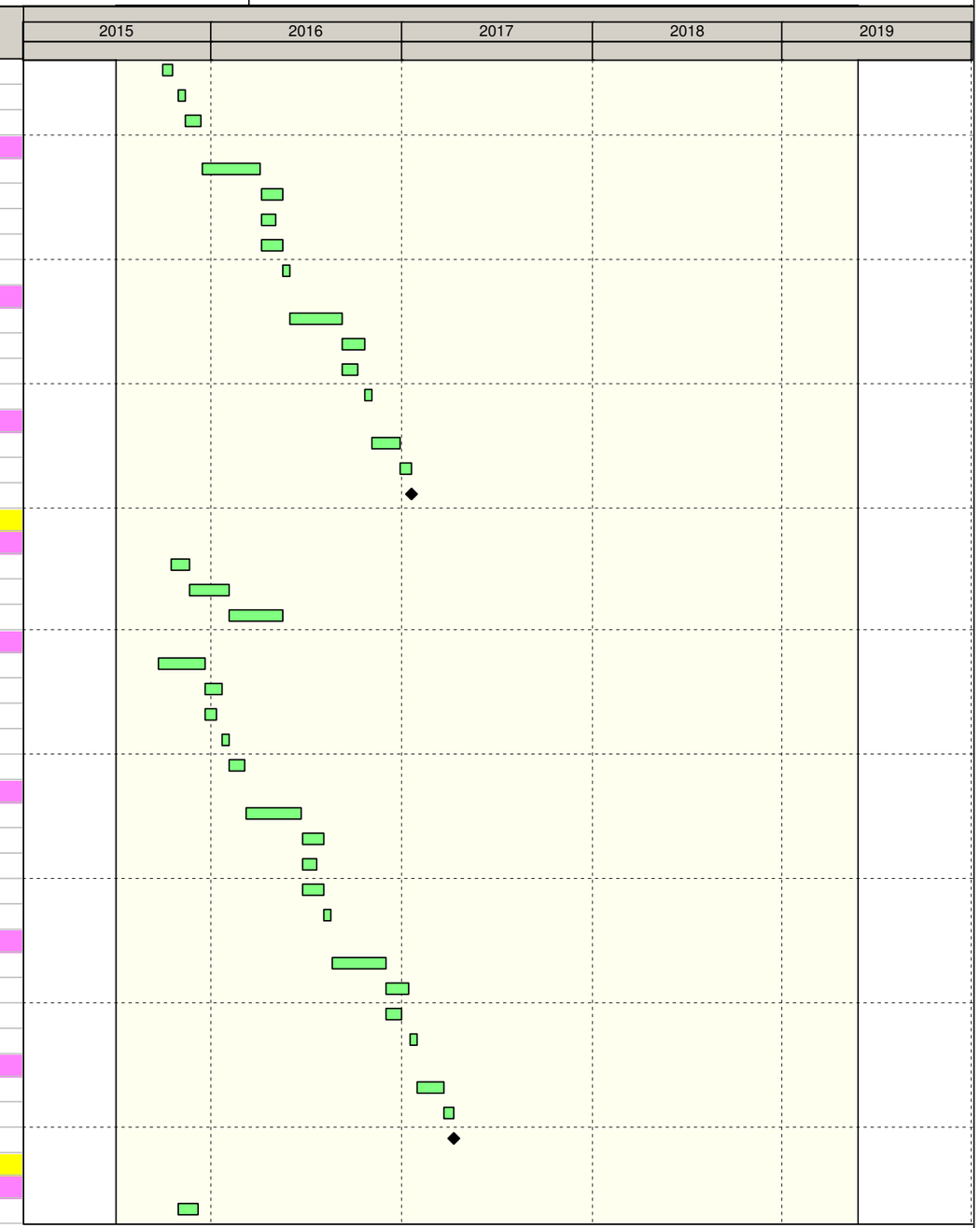


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M2H39D-030AGN	Elder Ave Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M2H39D-030CMN	Elder Ave Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M2H39D-030TYPE	Elder Ave Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		122	12/14/15	05/31/16
M2H39D-060S	Elder Ave 60% Bridge Design, P/S	77	12/14/15	04/04/16
M2H39D-060R	Elder Ave 60% Bridge Design, Authority R/A	30	04/05/16	05/16/16
M2H39D-060AGN	Elder Ave 60% Bridge Design, 3rd Party R/A	30	04/05/16	05/04/16
M2H39D-060IND	Elder Ave 60% Bridge Design, Independent Check	30	04/05/16	05/16/16
M2H39D-060CMNT	Elder Ave 60% Bridge Design, Comments Resolution	10	05/17/16	05/31/16
90% Design		112	06/01/16	11/03/16
M2H39D-090S	Elder Ave 90% Bridge Design, P/S	70	06/01/16	09/08/16
M2H39D-090R	Elder Ave 90% Bridge Design, Authority R/A	30	09/09/16	10/20/16
M2H39D-090AGN	Elder Ave 90% Bridge Design, 3rd Party R/A	30	09/09/16	10/08/16
M2H39D-090CMNT	Elder Ave 90% Bridge Design, Comments Resolution	10	10/21/16	11/03/16
RFC		50	11/04/16	01/20/17
M2H39D-100S	Elder Ave RFC Bridge Design-P/S	35	11/04/16	12/28/16
M2H39D-100R	Elder Ave RFC Bridge Design, Authority R/A	15	12/29/16	01/20/17
M2H39D-100A	Elder Ave RFC Bridge Design-Approved	0		01/20/17
E. Flint (1814+98)		407	09/21/15	04/11/17
Geotech		147	10/16/15	05/17/16
M2H41D-GEO060F	E. Flint Ave. Geotech, Field Testing & Lab work	25	10/16/15	11/19/15
M2H41D-GEO060	E. Flint Ave. Geotech, P/S and R/A DFR	50	11/20/15	02/04/16
M2H41D-GEO100	E. Flint Ave. Geotech, P/S and R/A FFR	72	02/05/16	05/17/16
Type Selection		120	09/21/15	03/04/16
M2H41D-030S	E. Flint Ave. Type Selection Report, P/S	62	09/21/15	12/18/15
M2H41D-030R	E. Flint Ave. Type Selection Report, Authority R/A	20	12/21/15	01/20/16
M2H41D-030AGN	E. Flint Ave. Type Selection Report, 3rd Party R/A	20	12/21/15	01/09/16
M2H41D-030CMN	E. Flint Ave. Type Selection Report, Comments Resolution	10	01/21/16	02/03/16
M2H41D-030TYPE	E. Flint Ave. Type Selection Report, Meeting and Approval	21	02/04/16	03/04/16
60% Design		119	03/07/16	08/18/16
M2H41D-060S	E. Flint Ave. 60% Bridge Design, P/S	77	03/07/16	06/22/16
M2H41D-060R	E. Flint Ave. 60% Bridge Design, Authority R/A	30	06/23/16	08/04/16
M2H41D-060AGN	E. Flint Ave. 60% Bridge Design, 3rd Party R/A	30	06/23/16	07/22/16
M2H41D-060IND	E. Flint Ave. 60% Bridge Design, Independent Check	30	06/23/16	08/04/16
M2H41D-060CMNT	E. Flint Ave. 60% Bridge Design, Comments Resolution	10	08/05/16	08/18/16
90% Design		117	08/19/16	01/30/17
M2H41D-090S	E. Flint Ave. 90% Bridge Design, P/S	70	08/19/16	11/30/16
M2H41D-090R	E. Flint Ave. 90% Bridge Design, Authority R/A	30	12/01/16	01/13/17
M2H41D-090AGN	E. Flint Ave. 90% Bridge Design, 3rd Party R/A	30	12/01/16	12/30/16
M2H41D-090CMNT	E. Flint Ave. 90% Bridge Design, Comments Resolution	10	01/17/17	01/30/17
RFC		50	01/31/17	04/11/17
M2H41D-100S	E. Flint Ave. RFC Bridge Design-P/S	35	01/31/17	03/21/17
M2H41D-100R	E. Flint Ave. RFC Bridge Design, Authority R/A	15	03/22/17	04/11/17
M2H41D-100A	E. Flint Ave. RFC Bridge Design-Approved	0		04/11/17
Fargo Ave. (1868+17)		407	10/30/15	05/22/17
Geotech		147	10/30/15	06/01/16
M2H43D-GEO060F	Fargo Ave. Geotech, Field Testing & Lab work	25	10/30/15	12/07/15

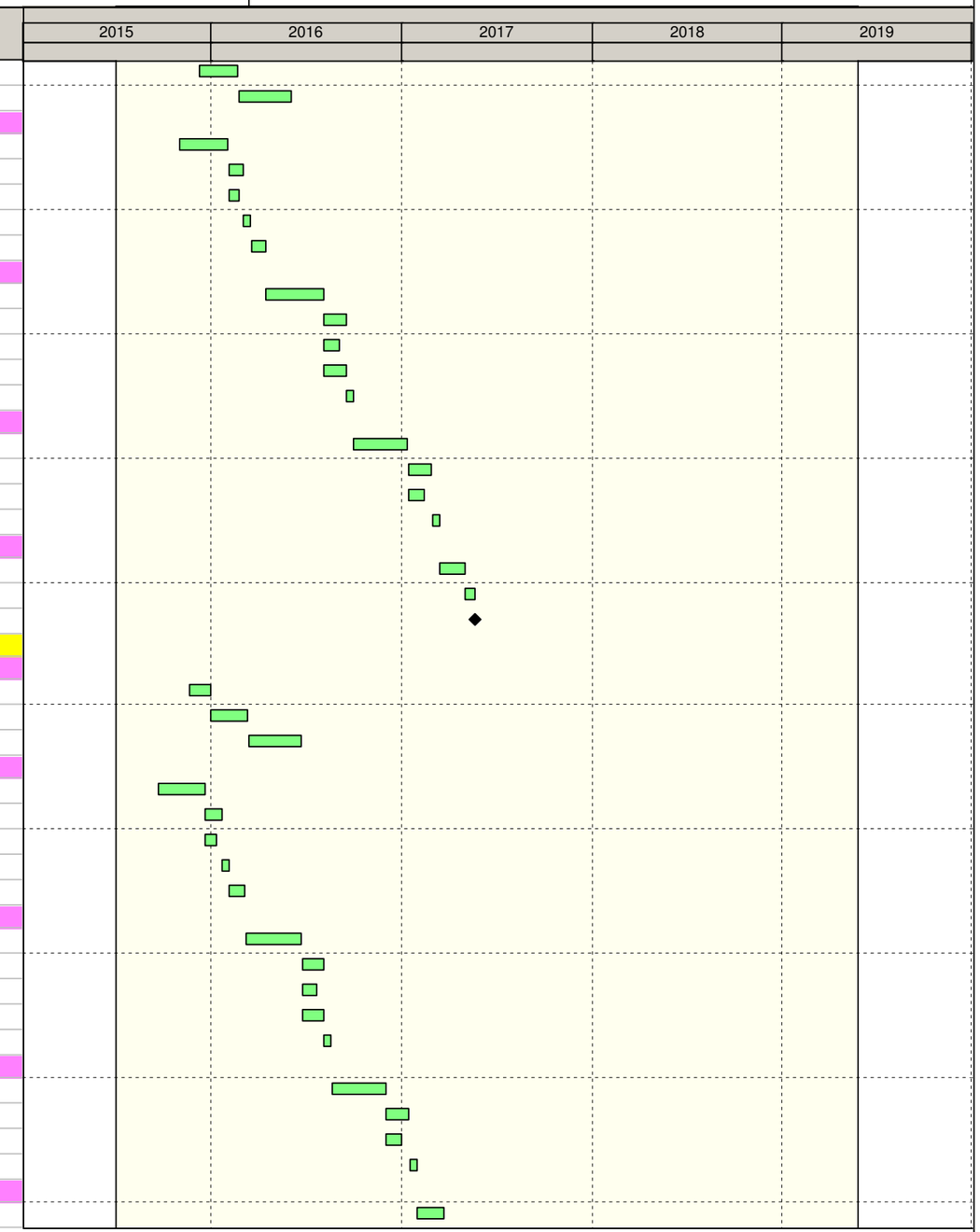


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M2H43D-GEO060	Fargo Ave. Geotech, P/S and R/A DFR	50	12/08/15	02/19/16
M2H43D-GEO100	Fargo Ave. Geotech, P/S and R/A FFR	72	02/22/16	06/01/16
Type Selection		119	11/02/15	04/14/16
M2H43D-030S	Fargo Ave. Type Selection Report, P/S	62	11/02/15	02/02/16
M2H43D-030R	Fargo Ave. Type Selection Report, Authority R/A	20	02/03/16	03/02/16
M2H43D-030AGN	Fargo Ave. Type Selection Report, 3rd Party R/A	20	02/03/16	02/22/16
M2H43D-030CMN	Fargo Ave. Type Selection Report, Comments Resolution	10	03/03/16	03/16/16
M2H43D-030TYPE	Fargo Ave. Type Selection Report, Meeting and Approval	21	03/17/16	04/14/16
60% Design		120	04/15/16	09/29/16
M2H43D-060S	Fargo Ave. 60% Bridge Design, P/S	77	04/15/16	08/03/16
M2H43D-060R	Fargo Ave. 60% Bridge Design, Authority R/A	30	08/04/16	09/15/16
M2H43D-060AGN	Fargo Ave. 60% Bridge Design, 3rd Party R/A	30	08/04/16	09/02/16
M2H43D-060IND	Fargo Ave. 60% Bridge Design, Independent Check	30	08/04/16	09/15/16
M2H43D-060CMNT	Fargo Ave. 60% Bridge Design, Comments Resolution	10	09/16/16	09/29/16
90% Design		117	09/30/16	03/13/17
M2H43D-090S	Fargo Ave. 90% Bridge Design, P/S	70	09/30/16	01/12/17
M2H43D-090R	Fargo Ave. 90% Bridge Design, Authority R/A	30	01/13/17	02/27/17
M2H43D-090AGN	Fargo Ave. 90% Bridge Design, 3rd Party R/A	30	01/13/17	02/11/17
M2H43D-090CMNT	Fargo Ave. 90% Bridge Design, Comments Resolution	10	02/28/17	03/13/17
RFC		50	03/14/17	05/22/17
M2H43D-100S	Fargo Ave. RFC Bridge Design-P/S	35	03/14/17	05/01/17
M2H43D-100R	Fargo Ave. RFC Bridge Design, Authority R/A	15	05/02/17	05/22/17
M2H43D-100A	Fargo Ave RFC Bridge Design-Approved	0		05/22/17
Idaho Ave. (2120+96)		407	09/21/15	04/11/17
Geotech		147	11/20/15	06/22/16
M2K02D-GEO060F	Idaho Ave. Geotech, Field Testing & Lab work	25	11/20/15	12/29/15
M2K02D-GEO060	Idaho Ave. Geotech, P/S and R/A DFR	50	12/30/15	03/11/16
M2K02D-GEO100	Idaho Ave. Geotech, P/S and R/A FFR	72	03/14/16	06/22/16
Type Selection		120	09/21/15	03/04/16
M2K02D-030S	Idaho Ave. Type Selection Report, P/S	62	09/21/15	12/18/15
M2K02D-030R	Idaho Ave. Type Selection Report, Authority R/A	20	12/21/15	01/20/16
M2K02D-030AGN	Idaho Ave. Type Selection Report, 3rd Party R/A	20	12/21/15	01/09/16
M2K02D-030CMN	Idaho Ave. Type Selection Report, Comments Resolution	10	01/21/16	02/03/16
M2K02D-030TYPE	Idaho Ave. Type Selection Report, Meeting and Approval	21	02/04/16	03/04/16
60% Design		119	03/07/16	08/18/16
M2K02D-060S	Idaho Ave. 60% Bridge Design, P/S	77	03/07/16	06/22/16
M2K02D-060R	Idaho Ave. 60% Bridge Design, Authority R/A	30	06/23/16	08/04/16
M2K02D-060AGN	Idaho Ave. 60% Bridge Design, 3rd Party R/A	30	06/23/16	07/22/16
M2K02D-060IND	Idaho Ave. 60% Bridge Design, Independent Check	30	06/23/16	08/04/16
M2K02D-060CMNT	Idaho Ave. 60% Bridge Design, Comments Resolution	10	08/05/16	08/18/16
90% Design		117	08/19/16	01/30/17
M2K02D-090S	Idaho Ave. 90% Bridge Design, P/S	70	08/19/16	11/30/16
M2K02D-090R	Idaho Ave. 90% Bridge Design, Authority R/A	30	12/01/16	01/13/17
M2K02D-090AGN	Idaho Ave. 90% Bridge Design, 3rd Party R/A	30	12/01/16	12/30/16
M2K02D-090CMNT	Idaho Ave. 90% Bridge Design, Comments Resolution	10	01/17/17	01/30/17
RFC		50	01/31/17	04/11/17
M2K02D-100S	Idaho Ave. RFC Bridge Design-P/S	35	01/31/17	03/21/17

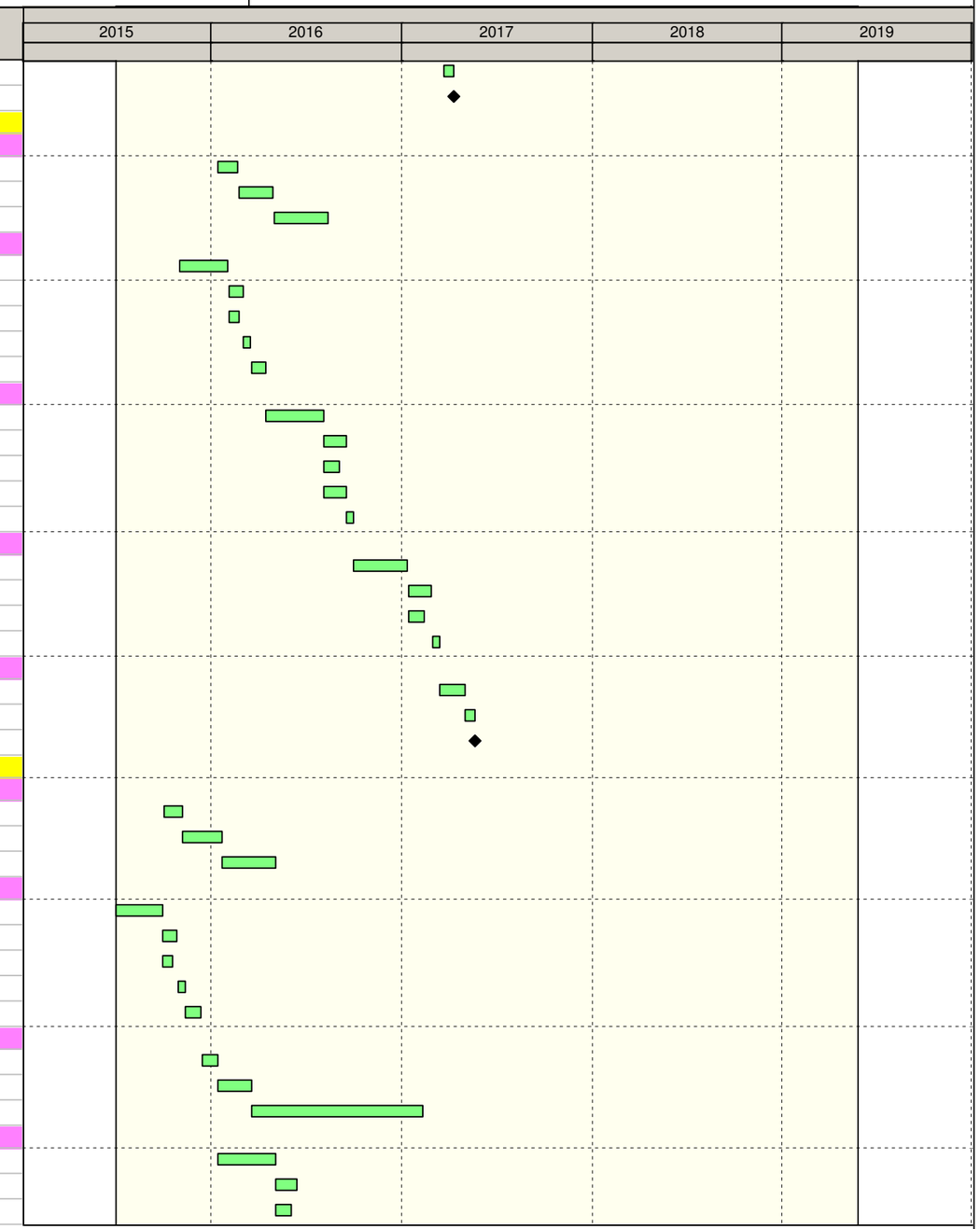


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M2K02D-100R	Idaho Ave. RFC Bridge Design, Authority R/A	15	03/22/17	04/11/17
M2K02D-100A	Idaho Ave. RFC Bridge Design-Approved	0		04/11/17
Jackson Ave. (2173+33)		406	11/02/15	05/22/17
Geotech		147	01/14/16	08/11/16
M2K04D-GEO060F	Jackson Ave. Geotech, Field Testing & Lab work	25	01/14/16	02/19/16
M2K04D-GEO060	Jackson Ave. Geotech, P/S and R/A DFR	50	02/22/16	04/29/16
M2K04D-GEO100	Jackson Ave. Geotech, P/S and R/A FFR	72	05/02/16	08/11/16
Type Selection		119	11/02/15	04/14/16
M2K04D-030S	Jackson Ave. Type Selection Report, P/S	62	11/02/15	02/02/16
M2K04D-030R	Jackson Ave. Type Selection Report, Authority R/A	20	02/03/16	03/02/16
M2K04D-030AGN	Jackson Ave. Type Selection Report, 3rd Party R/A	20	02/03/16	02/22/16
M2K04D-030CMN	Jackson Ave. Type Selection Report, Comments Resolution	10	03/03/16	03/16/16
M2K04D-030TYPE	Jackson Ave. Type Selection Report, Meeting and Approval	21	03/17/16	04/14/16
60% Design		120	04/15/16	09/29/16
M2K04D-060S	Jackson Ave. 60% Bridge Design, P/S	77	04/15/16	08/03/16
M2K04D-060R	Jackson Ave. 60% Bridge Design, Authority R/A	30	08/04/16	09/15/16
M2K04D-060AGN	Jackson Ave. 60% Bridge Design, 3rd Party R/A	30	08/04/16	09/02/16
M2K04D-060IND	Jackson Ave. 60% Bridge Design, Independent Check	30	08/04/16	09/15/16
M2K04D-060CMNT	Jackson Ave. 60% Bridge Design, Comments Resolution	10	09/16/16	09/29/16
90% Design		117	09/30/16	03/13/17
M2K04D-090S	Jackson Ave. 90% Bridge Design, P/S	70	09/30/16	01/12/17
M2K04D-090R	Jackson Ave. 90% Bridge Design, Authority R/A	30	01/13/17	02/27/17
M2K04D-090AGN	Jackson Ave. 90% Bridge Design, 3rd Party R/A	30	01/13/17	02/11/17
M2K04D-090CMNT	Jackson Ave. 90% Bridge Design, Comments Resolution	10	02/28/17	03/13/17
RFC		50	03/14/17	05/22/17
M2K04D-100S	Jackson Ave. RFC Bridge Design-P/S	35	03/14/17	05/01/17
M2K04D-100R	Jackson Ave. RFC Bridge Design, Authority R/A	15	05/02/17	05/22/17
M2K04D-100A	Jackson Ave. RFC Bridge Design-Approved	0		05/22/17
SR-43 over SJVRR (1956+00)		428	07/01/15	02/17/17
Geotech		147	10/01/15	05/03/16
M2H47BD-GEO06	SR-43 over SJVRR Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M2H47BD-GEO06	SR-43 over SJVRR Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M2H47BD-GEO1C	SR-43 over SJVRR Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M2H47BD-030S	SR-43 over SJVRR Type Selection Report, P/S	62	07/01/15	09/28/15
M2H47BD-030R	SR-43 over SJVRR Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M2H47BD-030AGN	SR-43 over SJVRR Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M2H47BD-030CM	SR-43 over SJVRR Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M2H47BD-030TYI	SR-43 over SJVRR Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
SJVR Design Package		305	12/14/15	02/10/17
M2H47BD-030BN	SR-43 over SJVRR, SJVRR Design Package, P/S	20	12/14/15	01/12/16
M2H47BD-030BN	SR-43 over SJVRR, SJVRR Design Package, BNSF R/A	45	01/13/16	03/17/16
M2H47BD-030CP	SR-43 over SJVRR, SJVRR Design Package, CPUC R/A	330	03/18/16	02/10/17
60% Design		120	01/13/16	06/28/16
M2H47BD-060S	SR-43 over SJVRR 60% Bridge Design, P/S	77	01/13/16	05/02/16
M2H47BD-060R	SR-43 over SJVRR 60% Bridge Design, Authority R/A	30	05/03/16	06/14/16
M2H47BD-060AGN	SR-43 over SJVRR 60% Bridge Design, 3rd Party R/A	30	05/03/16	06/01/16

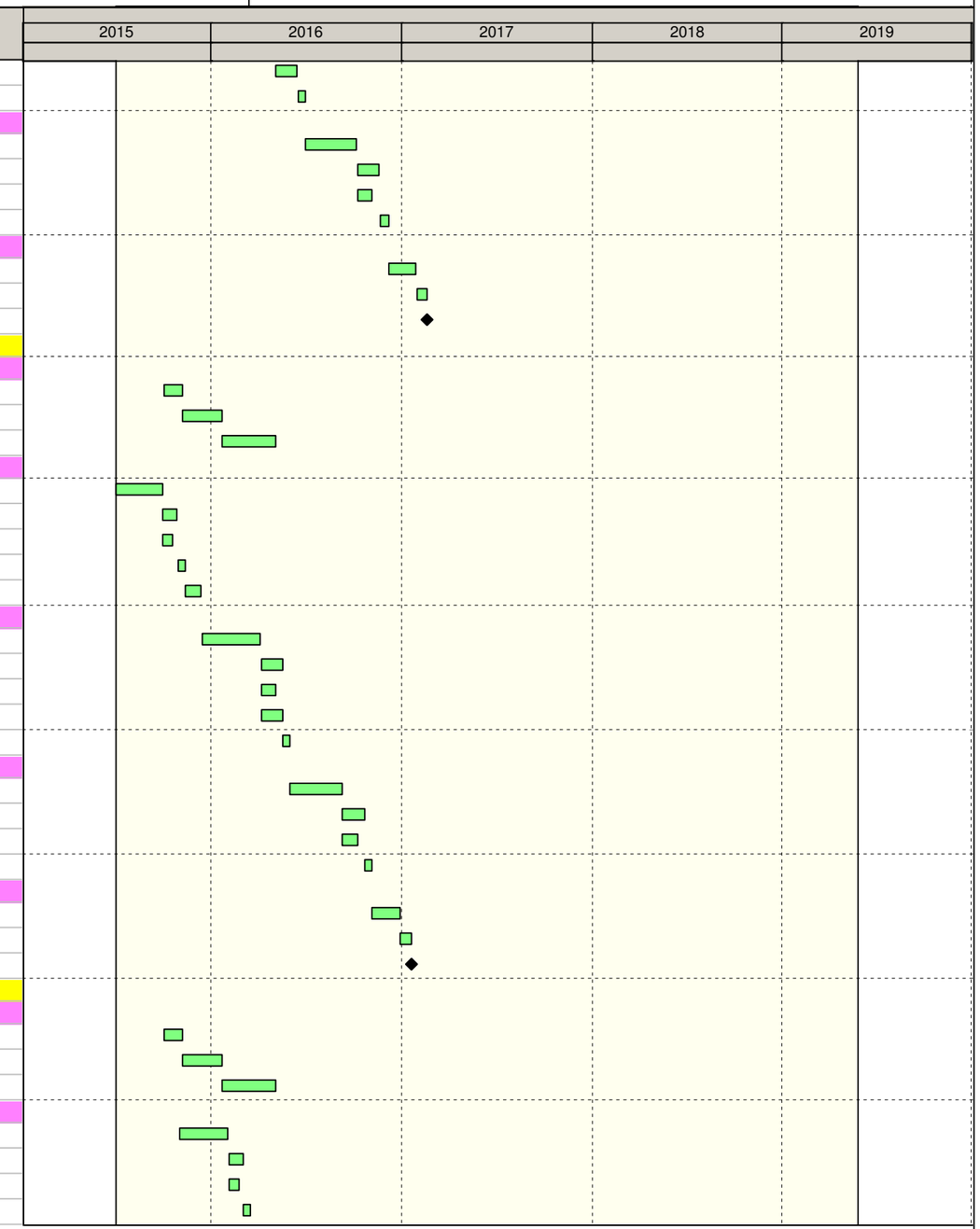


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M2H47BD-060IND	SR-43 over SJVRR 60% Bridge Design, Independent Check	30	05/03/16	06/14/16
M2H47BD-060CM	SR-43 over SJVRR 60% Bridge Design, Comments Resolution	10	06/15/16	06/28/16
90% Design		115	06/29/16	12/06/16
M2H47BD-090S	SR-43 over SJVRR 90% Bridge Design, P/S	70	06/29/16	10/06/16
M2H47BD-090R	SR-43 over SJVRR 90% Bridge Design, Authority R/A	30	10/07/16	11/18/16
M2H47BD-090AGN	SR-43 over SJVRR 90% Bridge Design, 3rd Party R/A	30	10/07/16	11/05/16
M2H47BD-090CM	SR-43 over SJVRR 90% Bridge Design, Comments Resolution	10	11/21/16	12/06/16
RFC		50	12/07/16	02/17/17
M2H47BD-100S	SR-43 over SJVRR RFC Bridge Design-P/S	35	12/07/16	01/27/17
M2H47BD-100R	SR-43 over SJVRR RFC Bridge Design, Authority R/A	15	01/30/17	02/17/17
M2H47BD-100A	SR-43 over SJVRR RFC Bridge Design-Approved	0		02/17/17
Houston Ave (2083+93)		408	07/01/15	01/20/17
Geotech		147	10/01/15	05/03/16
M2H53D-GEO060F	Houston Ave. Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M2H53D-GEO060	Houston Ave. Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M2H53D-GEO100	Houston Ave. Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M2H53D-030S	Houston Ave. Type Selection Report, P/S	62	07/01/15	09/28/15
M2H53D-030R	Houston Ave. Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M2H53D-030AGN	Houston Ave. Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M2H53D-030CMN	Houston Ave. Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M2H53D-030TYPE	Houston Ave. Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		122	12/14/15	05/31/16
M2H53D-060S	Houston Ave. 60% Bridge Design, P/S	77	12/14/15	04/04/16
M2H53D-060R	Houston Ave. 60% Bridge Design, Authority R/A	30	04/05/16	05/16/16
M2H53D-060AGN	Houston Ave. 60% Bridge Design, 3rd Party R/A	30	04/05/16	05/04/16
M2H53D-060IND	Houston Ave. 60% Bridge Design, Independent Check	30	04/05/16	05/16/16
M2H53D-060CMNT	Houston Ave. 60% Bridge Design, Comments Resolution	10	05/17/16	05/31/16
90% Design		112	06/01/16	11/03/16
M2H53D-090S	Houston Ave. 90% Bridge Design, P/S	70	06/01/16	09/08/16
M2H53D-090R	Houston Ave. 90% Bridge Design, Authority R/A	30	09/09/16	10/20/16
M2H53D-090AGN	Houston Ave. 90% Bridge Design, 3rd Party R/A	30	09/09/16	10/08/16
M2H53D-090CMNT	Houston Ave. 90% Bridge Design, Comments Resolution	10	10/21/16	11/03/16
RFC		50	11/04/16	01/20/17
M2H53D-100S	Houston Ave. RFC Bridge Design-P/S	35	11/04/16	12/28/16
M2H53D-100R	Houston Ave. RFC Bridge Design, Authority R/A	15	12/29/16	01/20/17
M2H53D-100A	Houston Ave. RFC Bridge Design-Approved	0		01/20/17
Hanford Armona Rd (2029+29)		428	10/01/15	05/22/17
Geotech		147	10/01/15	05/03/16
M2H51D-GEO060F	Hanford Arm. Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M2H51D-GEO060	Hanford Arm. Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M2H51D-GEO100	Hanford Arm. Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		119	11/02/15	04/14/16
M2H51D-030S	Hanford Arm. Type Selection Report, P/S	62	11/02/15	02/02/16
M2H51D-030R	Hanford Arm. Type Selection Report, Authority R/A	20	02/03/16	03/02/16
M2H51D-030AGN	Hanford Arm. Type Selection Report, 3rd Party R/A	20	02/03/16	02/22/16
M2H51D-030CMN	Hanford Arm. Type Selection Report, Comments Resolution	10	03/03/16	03/16/16

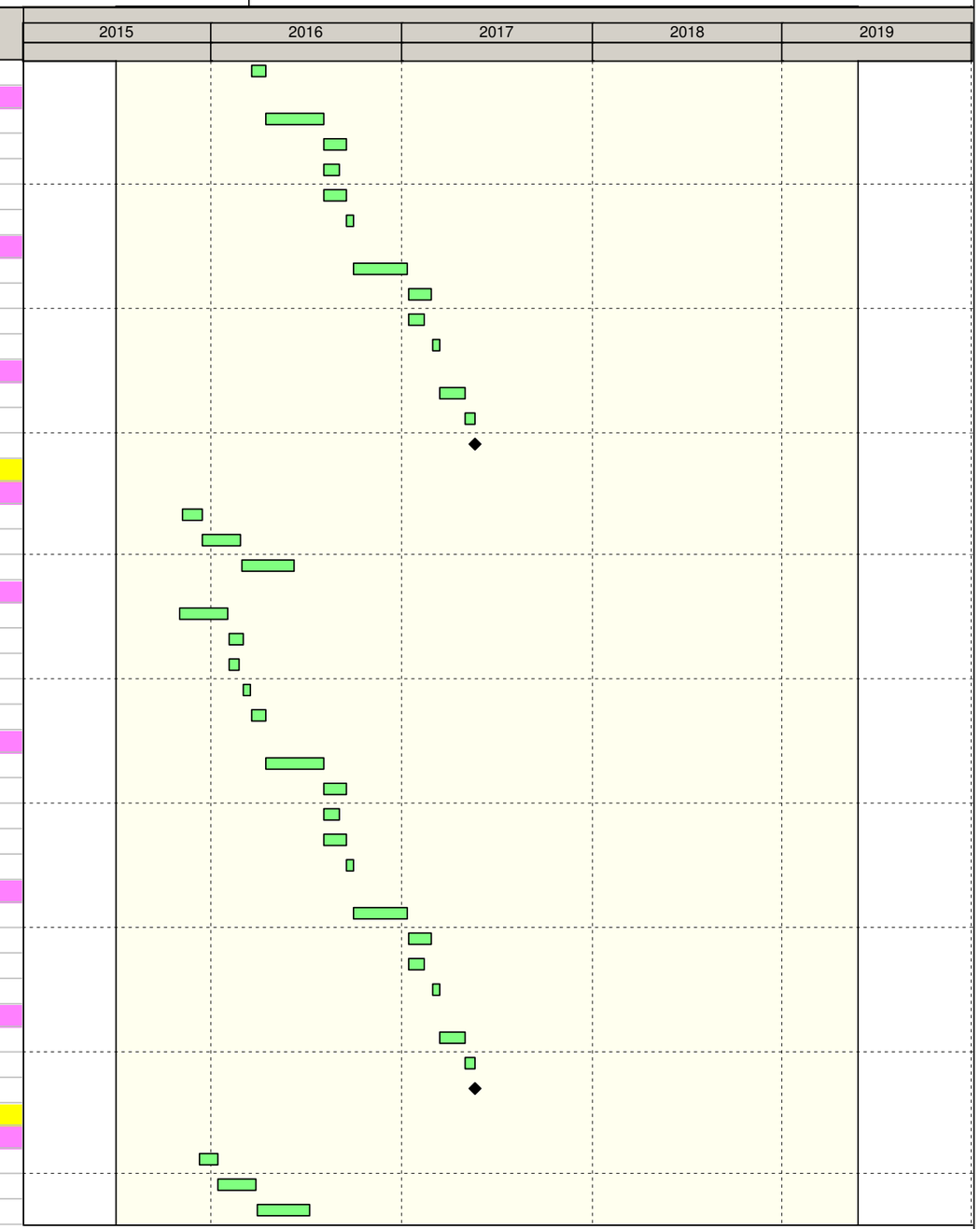


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M2H51D-030TYPE	Hanford Arm. Type Selection Report, Meeting and Approval	21	03/17/16	04/14/16
60% Design		120	04/15/16	09/29/16
M2H51D-060S	Hanford Arm. 60% Bridge Design, P/S	77	04/15/16	08/03/16
M2H51D-060R	Hanford Arm. 60% Bridge Design, Authority R/A	30	08/04/16	09/15/16
M2H51D-060AGN	Hanford Arm. 60% Bridge Design, 3rd Party R/A	30	08/04/16	09/02/16
M2H51D-060IND	Hanford Arm. 60% Bridge Design, Independent Check	30	08/04/16	09/15/16
M2H51D-060CMNT	Hanford Arm. 60% Bridge Design, Comments Resolution	10	09/16/16	09/29/16
90% Design		117	09/30/16	03/13/17
M2H51D-090S	Hanford Arm. 90% Bridge Design, P/S	70	09/30/16	01/12/17
M2H51D-090R	Hanford Arm. 90% Bridge Design, Authority R/A	30	01/13/17	02/27/17
M2H51D-090AGN	Hanford Arm. 90% Bridge Design, 3rd Party R/A	30	01/13/17	02/11/17
M2H51D-090CMNT	Hanford Arm. 90% Bridge Design, Comments Resolution	10	02/28/17	03/13/17
RFC		50	03/14/17	05/22/17
M2H51D-100S	Hanford Arm. RFC Bridge Design-P/S	35	03/14/17	05/01/17
M2H51D-100R	Hanford Arm. RFC Bridge Design, Authority R/A	15	05/02/17	05/22/17
M2H51D-100A	Hanford Arm. RFC Bridge Design-Approved	0		05/22/17
Iona Ave (2136+82)		406	11/02/15	05/22/17
Geotech		147	11/06/15	06/08/16
M2H55D-GEO060F	Iona Ave. Geotech, Field Testing & Lab work	25	11/06/15	12/14/15
M2H55D-GEO060	Iona Ave. Geotech, P/S and R/A DFR	50	12/15/15	02/26/16
M2H55D-GEO100	Iona Ave. Geotech, P/S and R/A FFR	72	02/29/16	06/08/16
Type Selection		119	11/02/15	04/14/16
M2H55D-030S	Iona Ave. Type Selection Report, P/S	62	11/02/15	02/02/16
M2H55D-030R	Iona Ave. Type Selection Report, Authority R/A	20	02/03/16	03/02/16
M2H55D-030AGN	Iona Ave. Type Selection Report, 3rd Party R/A	20	02/03/16	02/22/16
M2H55D-030CMN	Iona Ave. Type Selection Report, Comments Resolution	10	03/03/16	03/16/16
M2H55D-030TYPE	Iona Ave. Type Selection Report, Meeting and Approval	21	03/17/16	04/14/16
60% Design		120	04/15/16	09/29/16
M2H55D-060S	Iona Ave. 60% Bridge Design, P/S	77	04/15/16	08/03/16
M2H55D-060R	Iona Ave. 60% Bridge Design, Authority R/A	30	08/04/16	09/15/16
M2H55D-060AGN	Iona Ave. 60% Bridge Design, 3rd Party R/A	30	08/04/16	09/02/16
M2H55D-060IND	Iona Ave. 60% Bridge Design, Independent Check	30	08/04/16	09/15/16
M2H55D-060CMNT	Iona Ave. 60% Bridge Design, Comments Resolution	10	09/16/16	09/29/16
90% Design		117	09/30/16	03/13/17
M2H55D-090S	Iona Ave. 90% Bridge Design, P/S	70	09/30/16	01/12/17
M2H55D-090R	Iona Ave. 90% Bridge Design, Authority R/A	30	01/13/17	02/27/17
M2H55D-090AGN	Iona Ave. 90% Bridge Design, 3rd Party R/A	30	01/13/17	02/11/17
M2H55D-090CMNT	Iona Ave. 90% Bridge Design, Comments Resolution	10	02/28/17	03/13/17
RFC		50	03/14/17	05/22/17
M2H55D-100S	Iona Ave. RFC Bridge Design-P/S	35	03/14/17	05/01/17
M2H55D-100R	Iona Ave. RFC Bridge Design, Authority R/A	15	05/02/17	05/22/17
M2H55D-100A	Iona Ave. RFC Bridge Design-Approved	0		05/22/17
SR43 Overpass K-7 (2243+00)		407	09/21/15	04/11/17
Geotech		147	12/08/15	07/07/16
M2K06D-GEO060F	SR-43 Overpass Geotech, Field Testing & Lab work	25	12/08/15	01/13/16
M2K06D-GEO060	SR-43 Overpass Geotech, P/S and R/A DFR	50	01/14/16	03/25/16
M2K06D-GEO100	SR-43 Overpass Geotech, P/S and R/A FFR	72	03/28/16	07/07/16

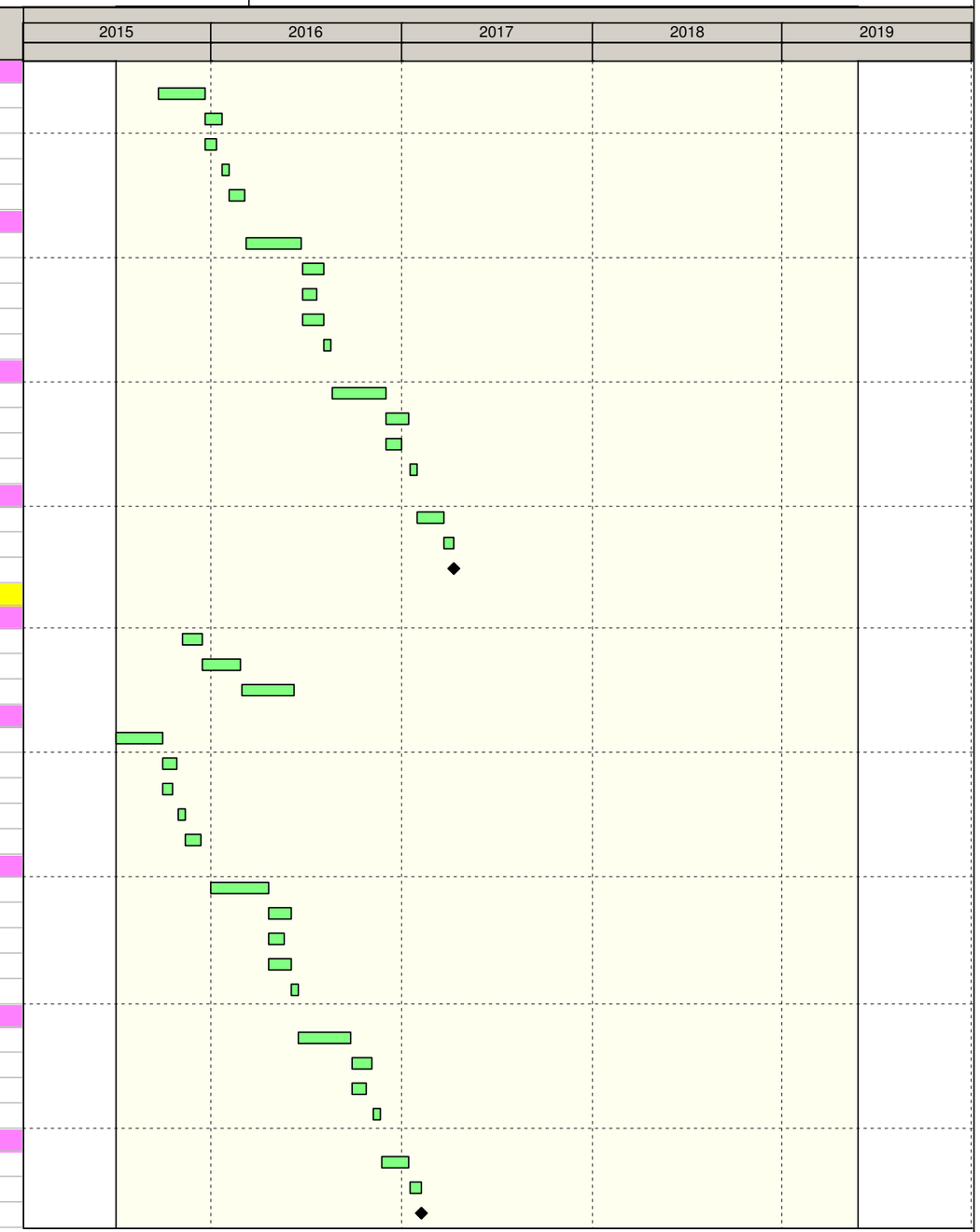


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
Type Selection		120	09/21/15	03/04/16
M2K06D-030S	SR-43 Overpass Type Selection Report, P/S	62	09/21/15	12/18/15
M2K06D-030R	SR-43 Overpass Type Selection Report, Authority R/A	20	12/21/15	01/20/16
M2K06D-030AGN	SR-43 Overpass Type Selection Report, 3rd Party R/A	20	12/21/15	01/09/16
M2K06D-030CMN	SR-43 Overpass Type Selection Report, Comments Resolution	10	01/21/16	02/03/16
M2K06D-030TYPE	SR-43 Overpass Type Selection Report, Meeting and Approval	21	02/04/16	03/04/16
60% Design		119	03/07/16	08/18/16
M2K06D-060S	SR-43 Overpass 60% Bridge Design, P/S	77	03/07/16	06/22/16
M2K06D-060R	SR-43 Overpass 60% Bridge Design, Authority R/A	30	06/23/16	08/04/16
M2K06D-060AGN	SR-43 Overpass 60% Bridge Design, 3rd Party R/A	30	06/23/16	07/22/16
M2K06D-060IND	SR-43 Overpass 60% Bridge Design, Independent Check	30	06/23/16	08/04/16
M2K06D-060CMNT	SR-43 Overpass 60% Bridge Design, Comments Resolution	10	08/05/16	08/18/16
90% Design		117	08/19/16	01/30/17
M2K06D-090S	SR-43 Overpass 90% Bridge Design, P/S	70	08/19/16	11/30/16
M2K06D-090R	SR-43 Overpass 90% Bridge Design, Authority R/A	30	12/01/16	01/13/17
M2K06D-090AGN	SR-43 Overpass 90% Bridge Design, 3rd Party R/A	30	12/01/16	12/30/16
M2K06D-090CMNT	SR-43 Overpass 90% Bridge Design, Comments Resolution	10	01/17/17	01/30/17
RFC		50	01/31/17	04/11/17
M2K06D-100S	SR-43 Overpass RFC Bridge Design-P/S	35	01/31/17	03/21/17
M2K06D-100R	SR-43 Overpass RFC Bridge Design, Authority R/A	15	03/22/17	04/11/17
M2K06D-100A	SR-43 Overpass RFC Bridge Design-Approved	0		04/11/17
SR43 Overpass K-8 (2535+00)		419	07/01/15	02/06/17
Geotech		147	11/06/15	06/08/16
M2K15D-GEO060F	Bridge K-8 (SR43 Overpass) Geotech, Field Testing & Lab work	25	11/06/15	12/14/15
M2K15D-GEO060	Bridge K-8 (SR43 Overpass) Geotech, P/S and R/A DFR	50	12/15/15	02/26/16
M2K15D-GEO100	Bridge K-8 (SR43 Overpass) Geotech, P/S and R/A FFR	72	02/29/16	06/08/16
Type Selection		118	07/01/15	12/11/15
M2K15D-030S	Bridge K-8 (SR43 Overpass) Type Selection Report, P/S	62	07/01/15	09/28/15
M2K15D-030R	Bridge K-8 (SR43 Overpass) Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M2K15D-030AGN	Bridge K-8 (SR43 Overpass) Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M2K15D-030CMN	Bridge K-8 (SR43 Overpass) Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M2K15D-030TYPE	Bridge K-8 (SR43 Overpass) Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		121	12/30/15	06/15/16
M2K15D-060S	Bridge K-8 (SR43 Overpass) 60% Bridge Design, P/S	77	12/30/15	04/19/16
M2K15D-060R	Bridge K-8 (SR43 Overpass) 60% Bridge Design, Authority R/A	30	04/20/16	06/01/16
M2K15D-060AGN	Bridge K-8 (SR43 Overpass) 60% Bridge Design, 3rd Party R/A	30	04/20/16	05/19/16
M2K15D-060IND	Bridge K-8 (SR43 Overpass) 60% Bridge Design, Independent Check	30	04/20/16	06/01/16
M2K15D-060CMNT	Bridge K-8 (SR43 Overpass) 60% Bridge Design, Comments Resolution	10	06/02/16	06/15/16
90% Design		113	06/16/16	11/21/16
M2K15D-090S	Bridge K-8 (SR43 Overpass) 90% Bridge Design, P/S	70	06/16/16	09/23/16
M2K15D-090R	Bridge K-8 (SR43 Overpass) 90% Bridge Design, Authority R/A	30	09/26/16	11/04/16
M2K15D-090AGN	Bridge K-8 (SR43 Overpass) 90% Bridge Design, 3rd Party R/A	30	09/26/16	10/25/16
M2K15D-090CMNT	Bridge K-8 (SR43 Overpass) 90% Bridge Design, Comments Resolution	10	11/07/16	11/21/16
RFC		50	11/22/16	02/06/17
M2K15D-100S	Bridge K-8 (SR43 Overpass) RFC Bridge Design-P/S	35	11/22/16	01/13/17
M2K15D-100R	Bridge K-8 (SR43 Overpass) RFC Bridge Design, Authority R/A	15	01/17/17	02/06/17
M2K15D-100A	Bridge K-8 (SR43 Overpass) RFC Bridge Design-Approved	0		02/06/17

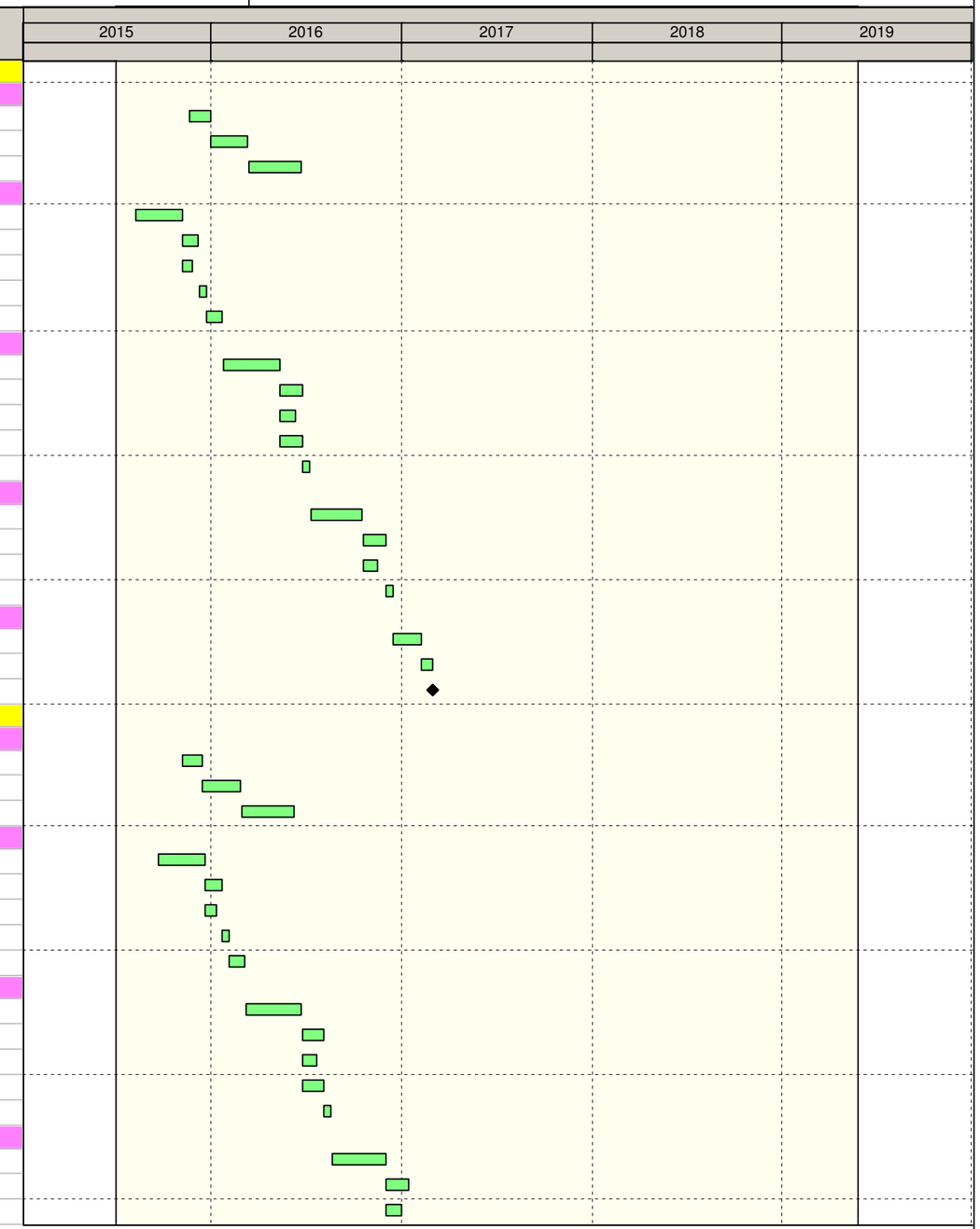


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
Kansas Ave. (2343+95)		408	08/10/15	03/01/17
Geotech		147	11/20/15	06/22/16
M2K10D-GEO060F	Kansas Ave. Geotech, Field Testing & Lab work	25	11/20/15	12/29/15
M2K10D-GEO060	Kansas Ave. Geotech, P/S and R/A DFR	50	12/30/15	03/11/16
M2K10D-GEO100	Kansas Ave. Geotech, P/S and R/A FFR	72	03/14/16	06/22/16
Type Selection		120	08/10/15	01/22/16
M2K10D-030S	Kansas Ave. Type Selection Report, P/S	62	08/10/15	11/05/15
M2K10D-030R	Kansas Ave. Type Selection Report, Authority R/A	20	11/06/15	12/07/15
M2K10D-030AGN	Kansas Ave. Type Selection Report, 3rd Party R/A	20	11/06/15	11/25/15
M2K10D-030CMN	Kansas Ave. Type Selection Report, Comments Resolution	10	12/08/15	12/21/15
M2K10D-030TYPE	Kansas Ave. Type Selection Report, Meeting and Approval	21	12/22/15	01/22/16
60% Design		120	01/25/16	07/08/16
M2K10D-060S	Kansas Ave. 60% Bridge Design, P/S	77	01/25/16	05/11/16
M2K10D-060R	Kansas Ave. 60% Bridge Design, Authority R/A	30	05/12/16	06/23/16
M2K10D-060AGN	Kansas Ave. 60% Bridge Design, 3rd Party R/A	30	05/12/16	06/10/16
M2K10D-060IND	Kansas Ave. 60% Bridge Design, Independent Check	30	05/12/16	06/23/16
M2K10D-060CMNT	Kansas Ave. 60% Bridge Design, Comments Resolution	10	06/24/16	07/08/16
90% Design		114	07/11/16	12/15/16
M2K10D-090S	Kansas Ave. 90% Bridge Design, P/S	70	07/11/16	10/17/16
M2K10D-090R	Kansas Ave. 90% Bridge Design, Authority R/A	30	10/18/16	12/01/16
M2K10D-090AGN	Kansas Ave. 90% Bridge Design, 3rd Party R/A	30	10/18/16	11/16/16
M2K10D-090CMNT	Kansas Ave. 90% Bridge Design, Comments Resolution	10	12/02/16	12/15/16
RFC		50	12/16/16	03/01/17
M2K10D-100S	Kansas Ave. RFC Bridge Design-P/S	35	12/16/16	02/07/17
M2K10D-100R	Kansas Ave. RFC Bridge Design, Authority R/A	15	02/08/17	03/01/17
M2K10D-100A	Kansas Ave. RFC Bridge Design-Approved	0		03/01/17
Kent Ave. (2289+21)		407	09/21/15	04/11/17
Geotech		147	11/06/15	06/08/16
M2K08D-GEO060F	Kent Ave. Geotech, Field Testing & Lab work	25	11/06/15	12/14/15
M2K08D-GEO060	Kent Ave. Geotech, P/S and R/A DFR	50	12/15/15	02/26/16
M2K08D-GEO100	Kent Ave. Geotech, P/S and R/A FFR	72	02/29/16	06/08/16
Type Selection		120	09/21/15	03/04/16
M2K08D-030S	Kent Ave. Type Selection Report, P/S	62	09/21/15	12/18/15
M2K08D-030R	Kent Ave. Type Selection Report, Authority R/A	20	12/21/15	01/20/16
M2K08D-030AGN	Kent Ave. Type Selection Report, 3rd Party R/A	20	12/21/15	01/09/16
M2K08D-030CMN	Kent Ave. Type Selection Report, Comments Resolution	10	01/21/16	02/03/16
M2K08D-030TYPE	Kent Ave. Type Selection Report, Meeting and Approval	21	02/04/16	03/04/16
60% Design		119	03/07/16	08/18/16
M2K08D-060S	Kent Ave. 60% Bridge Design, P/S	77	03/07/16	06/22/16
M2K08D-060R	Kent Ave. 60% Bridge Design, Authority R/A	30	06/23/16	08/04/16
M2K08D-060AGN	Kent Ave. 60% Bridge Design, 3rd Party R/A	30	06/23/16	07/22/16
M2K08D-060IND	Kent Ave. 60% Bridge Design, Independent Check	30	06/23/16	08/04/16
M2K08D-060CMNT	Kent Ave. 60% Bridge Design, Comments Resolution	10	08/05/16	08/18/16
90% Design		117	08/19/16	01/30/17
M2K08D-090S	Kent Ave. 90% Bridge Design, P/S	70	08/19/16	11/30/16
M2K08D-090R	Kent Ave. 90% Bridge Design, Authority R/A	30	12/01/16	01/13/17
M2K08D-090AGN	Kent Ave. 90% Bridge Design, 3rd Party R/A	30	12/01/16	12/30/16

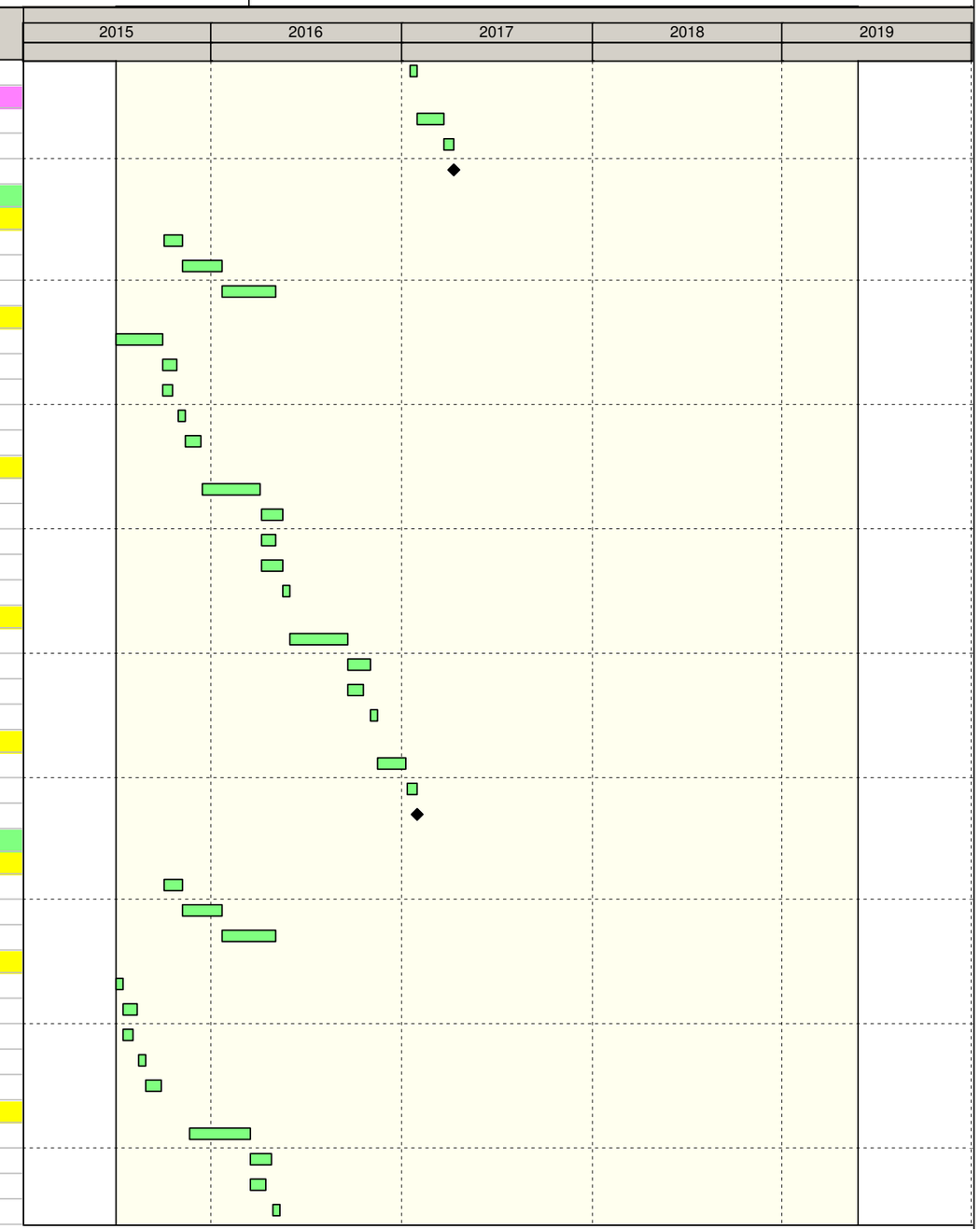


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M2K08D-090CMNT	Kent Ave. 90% Bridge Design, Comments Resolution	10	01/17/17	01/30/17
RFC		50	01/31/17	04/11/17
M2K08D-100S	Kent Ave. RFC Bridge Design-P/S	35	01/31/17	03/21/17
M2K08D-100R	Kent Ave. RFC Bridge Design, Authority R/A	15	03/22/17	04/11/17
M2K08D-100A	Kent Ave. RFC Bridge Design-Approved	0		04/11/17
Special Structures		415	07/01/15	01/31/17
Geotech		147	10/01/15	05/03/16
M2SPCLD-GEO060F	Special Structures, Segment 2, Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M2SPCLD-GEO060D	Special Structures, Segment 2, Geotech, P/S DFR	50	11/06/15	01/21/16
M2SPCLD-GEO100F	Special Structures, Segment 2, Geotech, P/St FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M2SPCLD-030S	Special Structures, Segment 2, Type Selection Report, P/S	62	07/01/15	09/28/15
M2SPCLD-030R	Special Structures, Segment 2, Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M2SPCLD-030AGN	Special Structures, Segment 2, Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M2SPCLD-030CMNT	Special Structures, Segment 2, Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M2SPCLD-030TYPE	Special Structures, Segment 2, Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		122	12/14/15	05/31/16
M2SPCLD-060S	Special Structures, Segment 2, 60% Design, P/S	77	12/14/15	04/04/16
M2SPCLD-060R	Special Structures, Segment 2, 60% Design, Authority R/A	30	04/05/16	05/16/16
M2SPCLD-060AGN	Special Structures, Segment 2, 60% Design, 3rd Party R/A	30	04/05/16	05/04/16
M2SPCLD-060IND	Special Structures, Segment 2, 60% Design, Independent Check	30	04/05/16	05/16/16
M2SPCLD-060CMNT	Special Structures, Segment 2, 60% Design, Comments Resolution	10	05/17/16	05/31/16
90% Design		120	06/01/16	11/15/16
M2SPCLD-090S	Special Structures, Segment 2, 90% Design, P/S	77	06/01/16	09/19/16
M2SPCLD-090R	Special Structures, Segment 2, 90% Design, Authority R/A	30	09/20/16	10/31/16
M2SPCLD-090AGN	Special Structures, Segment 2, 90% Design, 3rd Party R/A	30	09/20/16	10/19/16
M2SPCLD-090CMNT	Special Structures, Segment 2, 90% Design, Comments Resolution	10	11/01/16	11/15/16
RFC		50	11/16/16	01/31/17
M2SPCLD-100S	Special Structures, Segment 2, RFC Design, P/S	35	11/16/16	01/09/17
M2SPCLD-100R	Special Structures, Segment 2, RFC Design, Authority R/A	15	01/10/17	01/31/17
M2SPCLD-100A	Special Structures, Segment w, RFC Design, Approved	0		01/31/17
Walls/Embankment/Drainage Structures		378	07/01/15	12/09/16
Report for 60% Submittal		147	10/01/15	05/03/16
M2WALGEO-100FI10	Walls, Segment 2, Geotech, Field Investigations	25	10/01/15	11/05/15
M2WALGEO-100DR	Walls, Segment 2, Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M2WALGEO-100FR	Walls, Segment 2, Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		63	07/01/15	09/25/15
M2WALD-030S	Walls, Segment 2, Type Selection Report, P/S	10	07/01/15	07/15/15
M2WALD-030R	Walls, Segment 2, Type Selection Report, Authority R/A	20	07/16/15	08/12/15
M2WALD-030AGN	Walls, Segment 2, Type Selection Report, 3rd Party R/A	20	07/16/15	08/04/15
M2WALD-030CMNTS	Walls, Segment 2, Type Selection Report, Comments Resolution	10	08/13/15	08/26/15
M2WALD-030TYPE	Walls, Segment 2, Type Selection Report, Meeting and Approval	21	08/27/15	09/25/15
60% Design		123	11/20/15	05/10/16
M2WALD-060S	Walls, Segment 2, 60% Design, P/S	77	11/20/15	03/15/16
M2WALD-060R	Walls, Segment 2, 60% Design, Authority R/A	30	03/16/16	04/26/16
M2WALD-060AGN	Walls, Segment 2, 60% Design, 3rd Party R/A	30	03/16/16	04/14/16
M2WALD-060CMNT	Walls, Segment 2, 60% Design, Comments Resolution	10	04/27/16	05/10/16

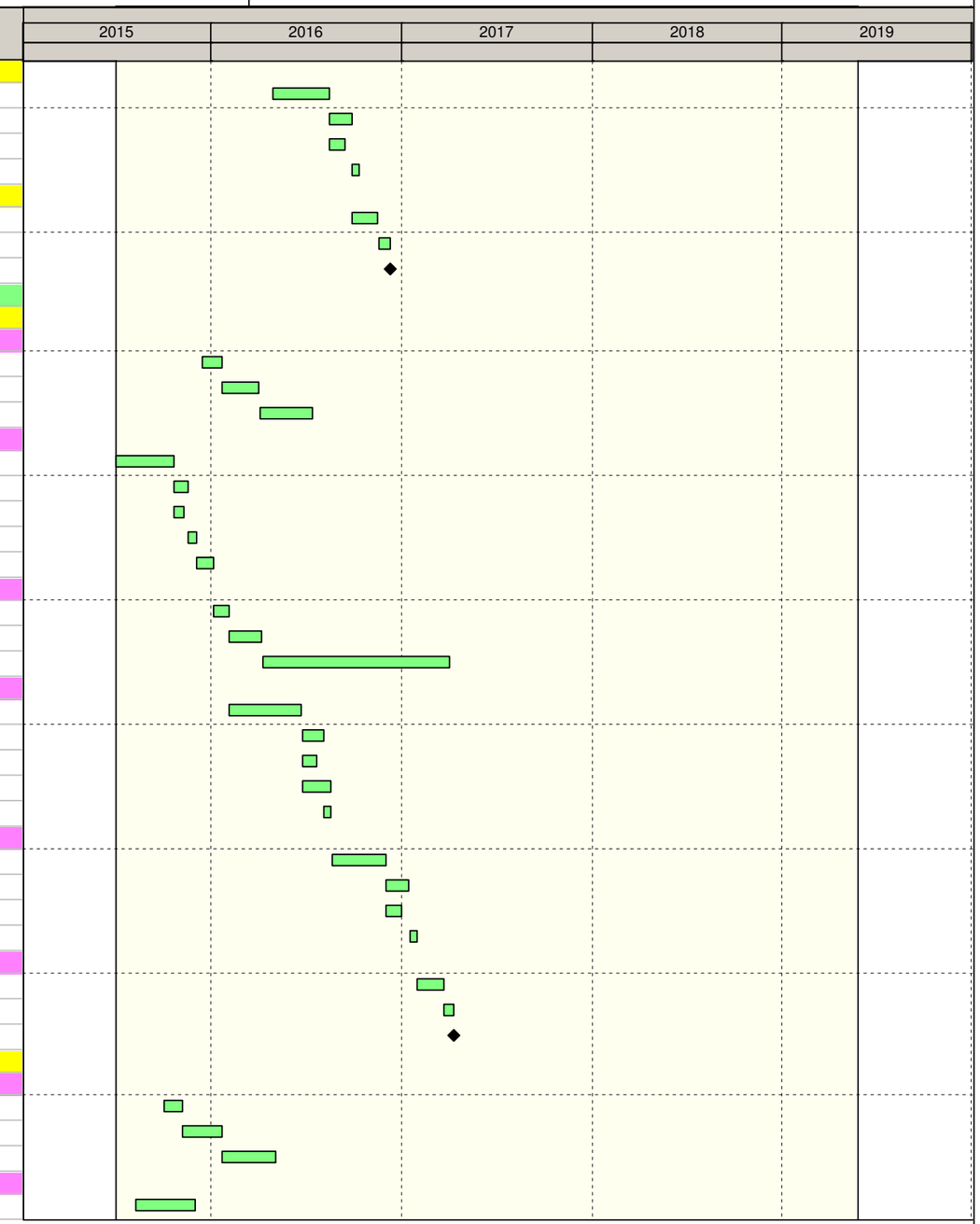


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
90% Design		120	04/27/16	10/11/16
M2WALD-090S	Walls, Segment 2, 90% Design, P/S	77	04/27/16	08/15/16
M2WALD-090R	Walls, Segment 2, 90% Design, Authority R/A	30	08/16/16	09/27/16
M2WALD-090AGN	Walls, Segment 2, 90% Design, 3rd Party R/A	30	08/16/16	09/14/16
M2WALD-090CMNT	Walls, Segment 2, 90% Design, Comments Resolution	10	09/28/16	10/11/16
RFC		50	09/28/16	12/09/16
M2WALD-100S	Walls, Segment 2, RFC Design, P/S	35	09/28/16	11/16/16
M2WALD-100R	Walls, Segment 2, RFC Design, Authority R/A	15	11/17/16	12/09/16
M2WALD-100A	Walls, Segment 2, RFC Design, Approved	0		12/09/16
Concrete HST Bridges		531	07/01/15	07/12/17
HST over SJVRR H-17 (1956+90)		465	07/01/15	04/11/17
Geotech		147	12/15/15	07/14/16
M2H47AD-GEO06	Bridge H-17 (HST over SJVRR), Geotech, Field Testing & Lab work	25	12/15/15	01/21/16
M2H47AD-GEO06	Bridge H-17 (HST over SJVRR), Geotech, P/S and R/A DFR	50	01/22/16	04/01/16
M2H47AD-GEO10	Bridge H-17 (HST over SJVRR), Geotech, P/S and R/A FFR	72	04/04/16	07/14/16
Type Selection		135	07/01/15	01/05/16
M2H47AD-030S	Bridge H-17 (HST over SJVRR), Type Selection Report, P/S	77	07/01/15	10/20/15
M2H47AD-030R	Bridge H-17 (HST over SJVRR), Type Selection Report, Authority R/A	20	10/21/15	11/17/15
M2H47AD-030AGN	Bridge H-17 (HST over SJVRR), Type Selection Report, 3rd Party R/A	20	10/21/15	11/09/15
M2H47AD-030CM	Bridge H-17 (HST over SJVRR), Type Selection Report, Comments Resolution	10	11/18/15	12/03/15
M2H47AD-030TYI	Bridge H-17 (HST over SJVRR), Type Selection Report, Meeting and Approval	21	12/04/15	01/05/16
BNSF Design Package		323	01/06/16	04/02/17
M2H47AD-030BN	Bridge H-17 (HST over SJVRR), BNSF Design Package, P/S	20	01/06/16	02/03/16
M2H47AD-030BN	Bridge H-17 (HST over SJVRR), BNSF Design Package, BNSF R/A	45	02/04/16	04/07/16
M2H47AD-030CP	Bridge H-17 (HST over SJVRR), BNSF Design Package, CPUC R/A	360	04/08/16	04/02/17
60% Design		140	02/05/16	08/18/16
M2H47AD-060S	Bridge H-17 (HST over SJVRR), 60% Bridge Design, P/S	97	02/05/16	06/22/16
M2H47AD-060R	Bridge H-17 (HST over SJVRR), 60% Bridge Design, Authority R/A	30	06/23/16	08/04/16
M2H47AD-060AGN	Bridge H-17 (HST over SJVRR), 60% Bridge Design, 3rd Party R/A	30	06/23/16	07/22/16
M2H47AD-060IND	Bridge H-17 (HST over SJVRR), 60% Bridge Design, Independent Check	40	06/23/16	08/18/16
M2H47AD-060CM	Bridge H-17 (HST over SJVRR), 60% Bridge Design, Comments Resolution	10	08/05/16	08/18/16
90% Design		117	08/19/16	01/30/17
M2H47AD-090S	Bridge H-17 (HST over SJVRR), 90% Bridge Design, P/S	70	08/19/16	11/30/16
M2H47AD-090R	Bridge H-17 (HST over SJVRR), 90% Bridge Design, Authority R/A	30	12/01/16	01/13/17
M2H47AD-090AGN	Bridge H-17 (HST over SJVRR), 90% Bridge Design, 3rd Party R/A	30	12/01/16	12/30/16
M2H47AD-090CM	Bridge H-17 (HST over SJVRR), 90% Bridge Design, Comments Resolution	10	01/17/17	01/30/17
RFC		50	01/31/17	04/11/17
M2H47AD-100S	Bridge H-17 (HST over SJVRR), RFC Bridge Design-P/S	35	01/31/17	03/21/17
M2H47AD-100R	Bridge H-17 (HST over SJVRR), RFC Bridge Design, Authority R/A	15	03/22/17	04/11/17
M2H47AD-100A	Bridge H-17 (HST over SJVRR), RFC Bridge Design-Approved	0		04/11/17
SR-198 Underpass H-18 (1977+30)		443	08/10/15	04/19/17
Geotech		147	10/01/15	05/03/16
M2H49D-GEO060F	Bridge H-18 (HST over SR198) Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M2H49D-GEO060	Bridge H-18 (HST over SR198) Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M2H49D-GEO100	Bridge H-18 (HST over SR198) Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		135	08/10/15	02/12/16
M2H49D-030S	Bridge H-18 (HST over SR198) Type Selection Report, P/S	77	08/10/15	11/30/15

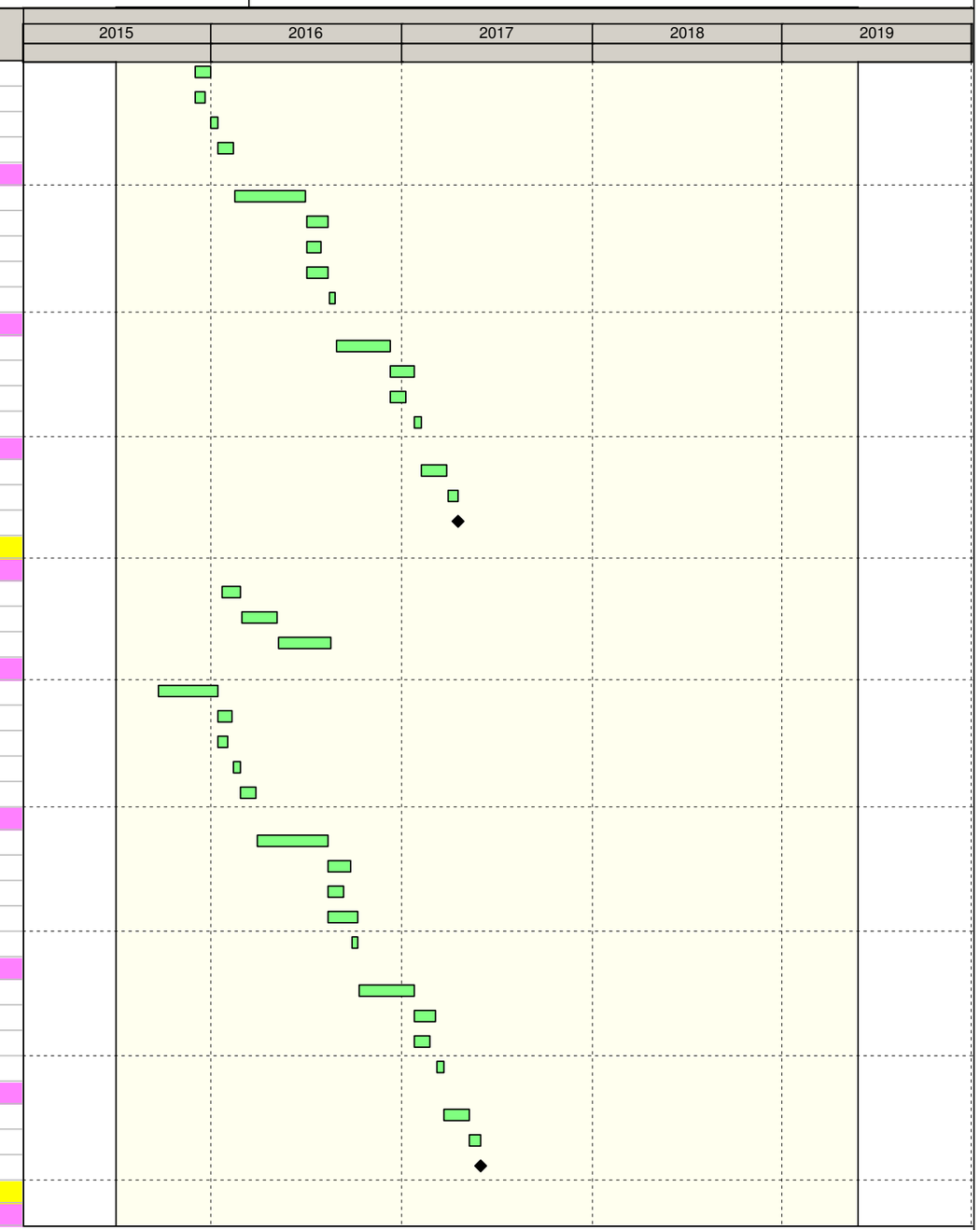


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M2H49D-030R	Bridge H-18 (HST over SR198) Type Selection Report, Authority R/A	20	12/01/15	12/29/15
M2H49D-030AGN	Bridge H-18 (HST over SR198) Type Selection Report, 3rd Party R/A	20	12/01/15	12/20/15
M2H49D-030CMN	Bridge H-18 (HST over SR198) Type Selection Report, Comments Resolution	10	12/30/15	01/13/16
M2H49D-030TYPE	Bridge H-18 (HST over SR198) Type Selection Report, Meeting and Approval	21	01/14/16	02/12/16
60% Design		139	02/16/16	08/26/16
M2H49D-060S	Bridge H-18 (HST over SR198) 60% Bridge Design, P/S	97	02/16/16	06/30/16
M2H49D-060R	Bridge H-18 (HST over SR198) 60% Bridge Design, Authority R/A	30	07/01/16	08/12/16
M2H49D-060AGN	Bridge H-18 (HST over SR198) 60% Bridge Design, 3rd Party R/A	30	07/01/16	07/30/16
M2H49D-060IND	Bridge H-18 (HST over SR198) 60% Bridge Design, Independent Check	30	07/01/16	08/12/16
M2H49D-060CMNT	Bridge H-18 (HST over SR198) 60% Bridge Design, Comments Resolution	10	08/15/16	08/26/16
90% Design		117	08/29/16	02/07/17
M2H49D-090S	Bridge H-18 (HST over SR198) 90% Bridge Design, P/S	70	08/29/16	12/08/16
M2H49D-090R	Bridge H-18 (HST over SR198) 90% Bridge Design, Authority R/A	30	12/09/16	01/24/17
M2H49D-090AGN	Bridge H-18 (HST over SR198) 90% Bridge Design, 3rd Party R/A	30	12/09/16	01/07/17
M2H49D-090CMNT	Bridge H-18 (HST over SR198) 90% Bridge Design, Comments Resolution	10	01/25/17	02/07/17
RFC		50	02/08/17	04/19/17
M2H49D-100S	Bridge H-18 (HST over SR198) RFC Bridge Design-P/S	35	02/08/17	03/29/17
M2H49D-100R	Bridge H-18 (HST over SR198) RFC Bridge Design, Authority R/A	15	03/30/17	04/19/17
M2H49D-100A	Bridge H-18 (HST over SR198) RFC Bridge Design-Approved	0		04/19/17
Grangeville Blvd H-16 (1923+40)		443	09/21/15	05/31/17
Geotech		147	01/22/16	08/18/16
M2H45D-GEO060F	Bridge H-16 (Grangeville Rd.) Geotech, Field Testing & Lab work	25	01/22/16	02/26/16
M2H45D-GEO060	Bridge H-16 (Grangeville Rd.) Geotech, P/S and R/A DFR	50	02/29/16	05/06/16
M2H45D-GEO100	Bridge H-16 (Grangeville Rd.) Geotech, P/S and R/A FFR	72	05/09/16	08/18/16
Type Selection		135	09/21/15	03/25/16
M2H45D-030S	Bridge H-16 (Grangeville Rd.) Type Selection Report, P/S	77	09/21/15	01/12/16
M2H45D-030R	Bridge H-16 (Grangeville Rd.) Type Selection Report, Authority R/A	20	01/13/16	02/10/16
M2H45D-030AGN	Bridge H-16 (Grangeville Rd.) Type Selection Report, 3rd Party R/A	20	01/13/16	02/01/16
M2H45D-030CMN	Bridge H-16 (Grangeville Rd.) Type Selection Report, Comments Resolution	10	02/11/16	02/25/16
M2H45D-030TYPE	Bridge H-16 (Grangeville Rd.) Type Selection Report, Meeting and Approval	21	02/26/16	03/25/16
60% Design		140	03/28/16	10/07/16
M2H45D-060S	Bridge H-16 (Grangeville Rd.) 60% Bridge Design, P/S	97	03/28/16	08/11/16
M2H45D-060R	Bridge H-16 (Grangeville Rd.) 60% Bridge Design, Authority R/A	30	08/12/16	09/23/16
M2H45D-060AGN	Bridge H-16 (Grangeville Rd.) 60% Bridge Design, 3rd Party R/A	30	08/12/16	09/10/16
M2H45D-060IND	Bridge H-16 (Grangeville Rd.) 60% Bridge Design, Independent Check	40	08/12/16	10/07/16
M2H45D-060CMNT	Bridge H-16 (Grangeville Rd.) 60% Bridge Design, Comments Resolution	10	09/26/16	10/07/16
90% Design		117	10/10/16	03/21/17
M2H45D-090S	Bridge H-16 (Grangeville Rd.) 90% Bridge Design, P/S	70	10/10/16	01/23/17
M2H45D-090R	Bridge H-16 (Grangeville Rd.) 90% Bridge Design, Authority R/A	30	01/24/17	03/07/17
M2H45D-090AGN	Bridge H-16 (Grangeville Rd.) 90% Bridge Design, 3rd Party R/A	30	01/24/17	02/22/17
M2H45D-090CMNT	Bridge H-16 (Grangeville Rd.) 90% Bridge Design, Comments Resolution	10	03/08/17	03/21/17
RFC		50	03/22/17	05/31/17
M2H45D-100S	Bridge H-16 (Grangeville Rd.) RFC Bridge Design-P/S	35	03/22/17	05/09/17
M2H45D-100R	Bridge H-16 (Grangeville Rd.) RFC Bridge Design, Authority R/A	15	05/10/17	05/31/17
M2H45D-100A	Bridge H-16 (Grangeville Rd.) RFC Bridge Design-Approved	0		05/31/17
Cross-Creek Bridge K-3 (2481+00)		425	11/02/15	07/12/17
Geotech		147	02/22/16	09/16/16

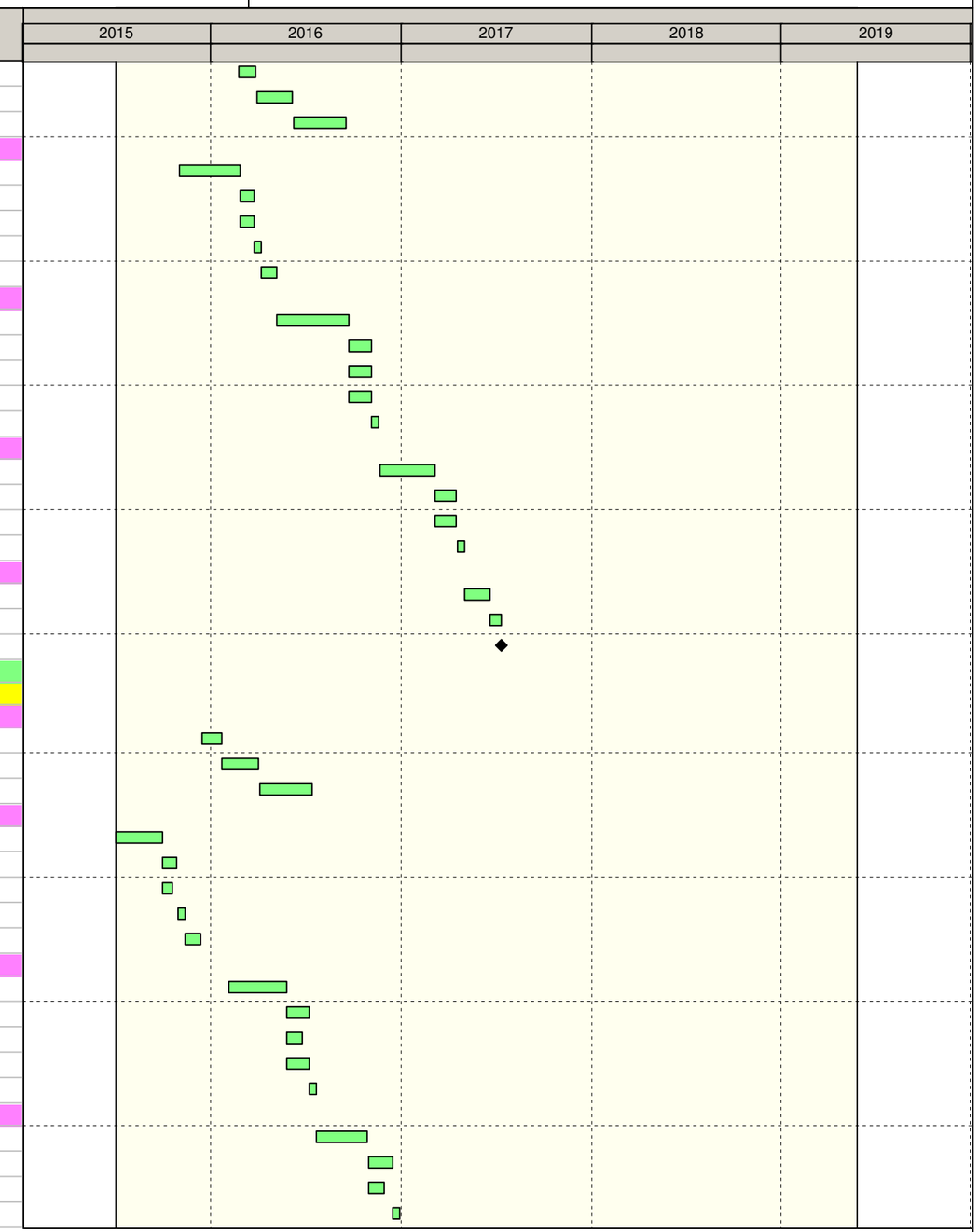


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M2K13D-GEO060F	Bridge K-3 (Cross Creek) Geotech, Field Testing & Lab work	25	02/22/16	03/25/16
M2K13D-GEO060	Bridge K-3 (Cross Creek) Geotech, P/S and R/A DFR	50	03/28/16	06/06/16
M2K13D-GEO100	Bridge K-3 (Cross Creek) Geotech, P/S and R/A FFR	72	06/07/16	09/16/16
Type Selection		128	11/02/15	05/05/16
M2K13D-030S	Bridge K-3 (Cross Creek) Type Selection Report, P/S	77	11/02/15	02/24/16
M2K13D-030R	Bridge K-3 (Cross Creek) Type Selection Report, Authority R/A	20	02/25/16	03/23/16
M2K13D-030AGN	Bridge K-3 (Cross Creek) Type Selection Report, 3rd Party R/A	20	02/25/16	03/23/16
M2K13D-030CMN	Bridge K-3 (Cross Creek) Type Selection Report, Comments Resolution	10	03/24/16	04/06/16
M2K13D-030TYPE	Bridge K-3 (Cross Creek) Type Selection Report, Meeting and Approval	21	04/07/16	05/05/16
60% Design		137	05/06/16	11/18/16
M2K13D-060S	Bridge K-3 (Cross Creek) 60% Bridge Design, P/S	97	05/06/16	09/22/16
M2K13D-060R	Bridge K-3 (Cross Creek) 60% Bridge Design, Authority R/A	30	09/23/16	11/03/16
M2K13D-060AGN	Bridge K-3 (Cross Creek) 60% Bridge Design, 3rd Party R/A	30	09/23/16	11/03/16
M2K13D-060IND	Bridge K-3 (Cross Creek) 60% Bridge Design, Independent Check	30	09/23/16	11/03/16
M2K13D-060CMNT	Bridge K-3 (Cross Creek) 60% Bridge Design, Comments Resolution	10	11/04/16	11/18/16
90% Design		110	11/21/16	05/01/17
M2K13D-090S	Bridge K-3 (Cross Creek) 90% Bridge Design, P/S	70	11/21/16	03/06/17
M2K13D-090R	Bridge K-3 (Cross Creek) 90% Bridge Design, Authority R/A	30	03/07/17	04/17/17
M2K13D-090AGN	Bridge K-3 (Cross Creek) 90% Bridge Design, 3rd Party R/A	30	03/07/17	04/17/17
M2K13D-090CMNT	Bridge K-3 (Cross Creek) 90% Bridge Design, Comments Resolution	10	04/18/17	05/01/17
RFC		50	05/02/17	07/12/17
M2K13D-100S	Bridge K-3 (Cross Creek) RFC Bridge Design-P/S	35	05/02/17	06/20/17
M2K13D-100R	Bridge K-3 (Cross Creek) RFC Bridge Design, Authority R/A	15	06/21/17	07/12/17
M2K13D-100A	Bridge K-3 (Cross Creek) RFC Bridge Design-Approved	0		07/12/17
Concrete Culvert		445	07/01/15	03/14/17
Baker Access		445	07/01/15	03/14/17
Geotech		147	12/15/15	07/14/16
M2H50D-GEO060F	Box H-19 (Baker Access) Geotech, Field Testing & Lab work	25	12/15/15	01/21/16
M2H50D-GEO060	Box H-19 (Baker Access) Geotech, P/S and R/A DFR	50	01/22/16	04/01/16
M2H50D-GEO100	Box H-19 (Baker Access) Geotech, P/S and R/A FFR	72	04/04/16	07/14/16
Type Selection		118	07/01/15	12/11/15
M2H50D-030S	Box H-19 (Baker Access) Type Selection Report, P/S	62	07/01/15	09/28/15
M2H50D-030R	Box H-19 (Baker Access) Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M2H50D-030AGN	Box H-19 (Baker Access) Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M2H50D-030CMN	Box H-19 (Baker Access) Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M2H50D-030TYPE	Box H-19 (Baker Access) Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		120	02/05/16	07/21/16
M2H50D-060S	Box H-19 (Baker Access) 60% Bridge Design, P/S	77	02/05/16	05/24/16
M2H50D-060R	Box H-19 (Baker Access) 60% Bridge Design, Authority R/A	30	05/25/16	07/07/16
M2H50D-060AGN	Box H-19 (Baker Access) 60% Bridge Design, 3rd Party R/A	30	05/25/16	06/23/16
M2H50D-060IND	Box H-19 (Baker Access) 60% Bridge Design, Independent Check	30	05/25/16	07/07/16
M2H50D-060CMNT	Box H-19 (Baker Access) 60% Bridge Design, Comments Resolution	10	07/08/16	07/21/16
90% Design		115	07/22/16	12/29/16
M2H50D-090S	Box H-19 (Baker Access) 90% Bridge Design, P/S	70	07/22/16	10/28/16
M2H50D-090R	Box H-19 (Baker Access) 90% Bridge Design, Authority R/A	30	10/31/16	12/14/16
M2H50D-090AGN	Box H-19 (Baker Access) 90% Bridge Design, 3rd Party R/A	30	10/31/16	11/29/16
M2H50D-090CMNT	Box H-19 (Baker Access) 90% Bridge Design, Comments Resolution	10	12/15/16	12/29/16



Remaining Level of Effort
Actual Work
Remaining Work
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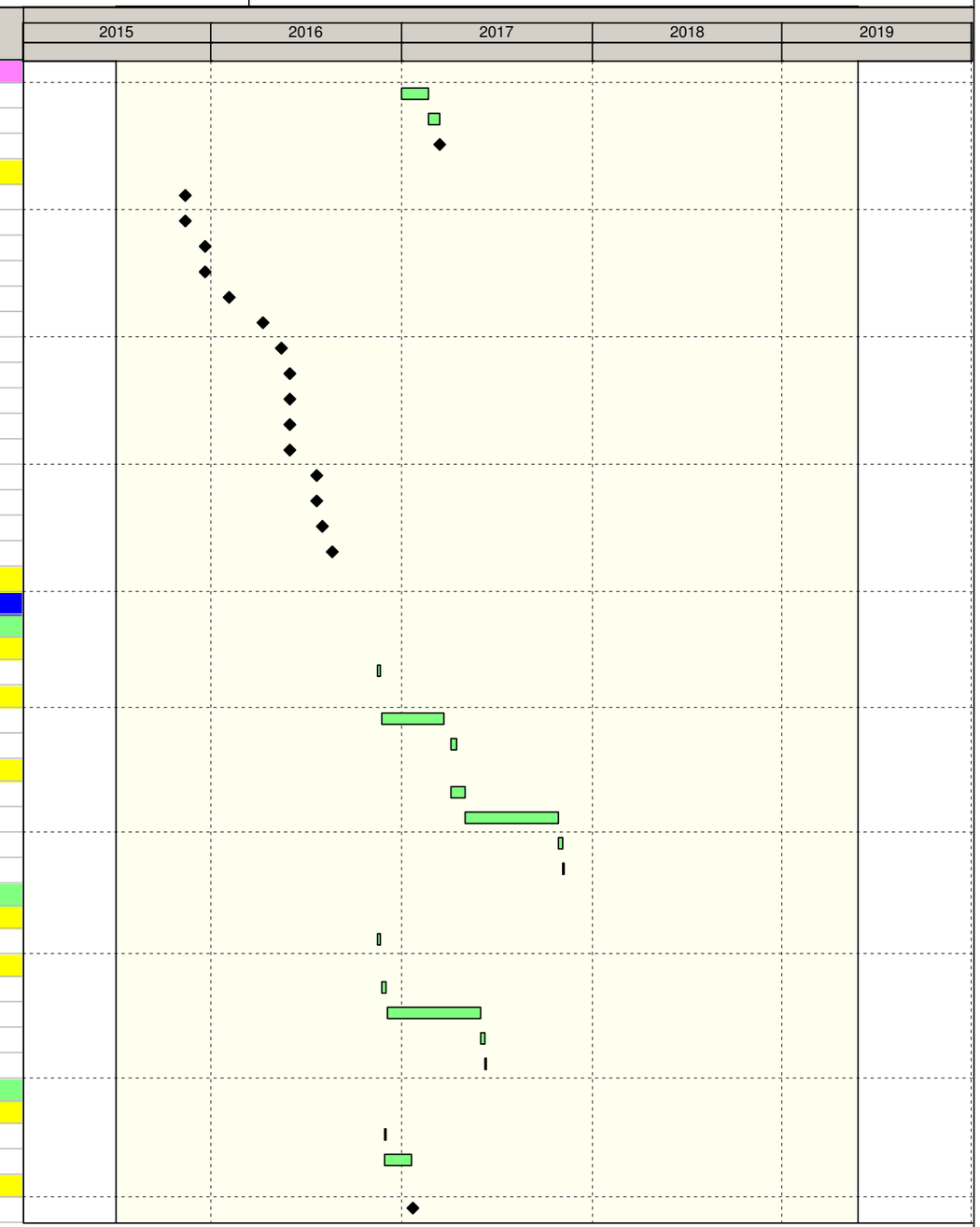
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
RFC		50	12/30/16	03/14/17
M2H50D-100S	Box H-19 (Baker Access) RFC Bridge Design-P/S	35	12/30/16	02/21/17
M2H50D-100R	Box H-19 (Baker Access) RFC Bridge Design, Authority R/A	15	02/22/17	03/14/17
M2H50D-100A	Box H-19 (Baker Access) RFC Bridge Design-Approved	0		03/14/17
ROW		283	11/11/15	08/20/16
ROWG24	ROW Group 24 Proposed Parcels Availability (ROD Base Date+502)	0	11/11/15	
ROWG24A	ROW Group 24 Proposed Parcels Availability (ROD Base Date+502) (H-17)	0	11/11/15	
ROWG31	ROW Group 31 Proposed Parcels Availability (ROD Base Date+542) (Cross Cre...	0	12/21/15	
ROWG31RR	ROW Group 31 RR Availability (ROD Base Date+542) (Cross Creek & SR43)	0	12/21/15	
ROWG24RR	ROW Group 24 RR Availability (ROD Base Date+586) (Grangeville & SJVRR)	0	02/03/16	
ROWG27	ROW Group 27 Proposed Parcels Availability (ROD Base Date+652) (Iona & Ida...	0	04/09/16	
ROWG25	ROW Group 25 Proposed Parcels Availability (ROD Base Date+687) (SR198 & ...	0	05/14/16	
ROWG20	ROW Group 20 Proposed Parcels Availability (ROD Base Date+705) (Dover)	0	06/01/16	
ROWG21	ROW Group 21 Proposed Parcels Availability (ROD Base Date+705) (Excelsior)	0	06/01/16	
ROWG22	ROW Group 22 Proposed Parcels Availability (ROD Base Date+705) (Elder)	0	06/01/16	
ROWG28	ROW Group 28 Proposed Parcels Availability (ROD Base Date+705) (SR 43)	0	06/01/16	
ROWG23	ROW Group 23 Proposed Parcels Availability (ROD Base Date+755) (Flint & Fa...	0	07/21/16	
ROWG29	ROW Group 29 Proposed Parcels Availability (ROD Base Date+755) (Kent & Ka...	0	07/21/16	
ROWG30	ROW Group 30 Proposed Parcels Availability (ROD Base Date+765)	0	07/31/16	
ROWG26	ROW Group 26 Proposed Parcels Availability (ROD Base Date+785) (Houston)	0	08/20/16	
Construction		723	07/21/16	04/29/19
Alignment H		723	07/21/16	04/29/19
H-1595+00 to H-1622+00		258	11/15/16	11/09/17
Grubb and Demolition		5	11/15/16	11/21/16
M2H33C-1000	H-1595+00 to H-1622+00, Clear & Grubb	5	11/15/16	11/21/16
RCBC & Irrigation Relocation		99	11/22/16	04/17/17
M2H33BC-100	H-1595+00 to H-1622+00, CIP Box Culvert	80	11/22/16	03/21/17
M2H33BC-110	H-1595+00 to H-1622+00, Precast Irrigation Culverts and Canal/Ditch Work	10	04/04/17	04/17/17
Track		158	04/04/17	11/09/17
M2H33TE-110	H-1595+00 to H-1622+00, HST Track Common Fill (FLOOD)	20	04/04/17	05/01/17
M2H33TE-120	H-1595+00 to H-1622+00, HST Track Common Fill, Surcharge Wait	180	05/02/17	10/28/17
M2H33TE-130	H-1595+00 to H-1622+00, HST Track Subgrade	6	10/30/17	11/06/17
M2H33TE-140	H-1595+00 to H-1622+00, HST Track AC	3	11/07/17	11/09/17
H-1622+00 to H-1650+00		151	11/15/16	06/13/17
Grubb and Demolition		5	11/15/16	11/21/16
M2H34C-1000	H-1622+00 to H-1650+00, Clear & Grubb	5	11/15/16	11/21/16
Track		146	11/22/16	06/13/17
M2H34TE-110	H-1622+00 to H-1650+00, HST Track Common Fill	7	11/22/16	12/02/16
M2H34TE-120	H-1622+00 to H-1650+00, HST Track Common Fill, Surcharge Wait	180	12/03/16	05/31/17
M2H34TE-130	H-1622+00 to H-1650+00, HST Track Subgrade	6	06/01/17	06/08/17
M2H34TE-140	H-1622+00 to H-1650+00, HST Track AC	3	06/09/17	06/13/17
H-1650+00 to H-1660+00 (Dover)		341	11/28/16	03/19/18
Grubb and Demolition		40	11/28/16	01/20/17
M2H35C-1000	Dover Ave. (H-1650+00 to H-1660+00), Clear & Grubb	5	11/28/16	12/02/16
M2H35C-1010	Dover Ave. (H-1650+00 to H-1660+00), Move Utilities (Primary is PG&E 12KV)	40	11/28/16	01/20/17
Structure (1 Span)		134	01/23/17	07/27/17
M2H35S-0001	Dover Ave., Start Structure	0	01/23/17	

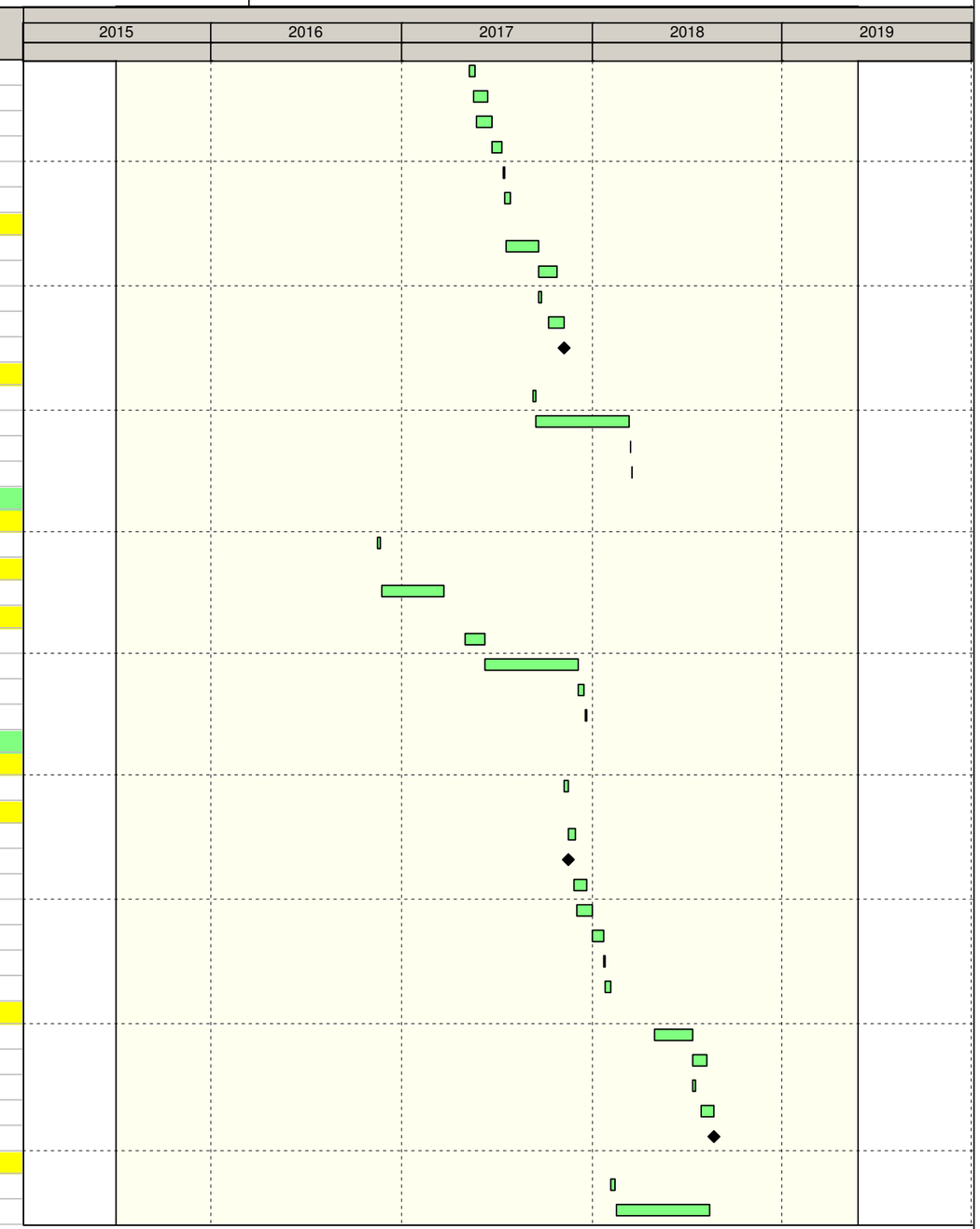


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M2H35S-1020	Dover Ave., Foundations	8	05/11/17	05/22/17
M2H35S-1040	Dover Ave., F/R/P Columns	20	05/18/17	06/15/17
M2H35S-1050	Dover Ave., F/R/P Bent Caps	20	05/25/17	06/22/17
M2H35S-1080	Dover Ave., Cure Concrete for Precast	21	06/23/17	07/13/17
M2H35S-1110	Dover Ave., Place Precast Girders	2	07/14/17	07/17/17
M2H35S-1120	Dover Ave., Deck Rebar/Forms & Pour	8	07/18/17	07/27/17
Access Road		77	07/21/17	11/07/17
M2H35S-1090	Dover Ave., Build Embankments to Final Grade	43	07/21/17	09/20/17
M2H35S-1130	Dover Ave., Deck & Road Pavements	25	09/21/17	10/25/17
M2H35S-1100	Dover Ave., Hydroseed Embankments	5	09/21/17	09/27/17
M2H35S-1140	Dover Ave., Landscape/Permanent BMPS/Fencing	22	10/09/17	11/07/17
M2H35S-9000	Dover Ave., Open for Traffic & Ready for Track work	0		11/07/17
Track		136	09/11/17	03/19/18
M2H35TE-110	Dover Ave. (H-1650+00 to H-1660+00), HST Track Common Fill	5	09/11/17	09/15/17
M2H35TE-120	Dover Ave. (H-1650+00 to H-1660+00), HST Track Common Fill, Surcharge Wait	180	09/16/17	03/14/18
M2H35TE-130	Dover Ave. (H-1650+00 to H-1660+00), HST Track Subgrade	2	03/15/18	03/16/18
M2H35TE-140	Dover Ave. (H-1650+00 to H-1660+00), HST Track AC	1	03/19/18	03/19/18
H-1660+00 to H-1700+00		288	11/15/16	12/21/17
Grubb and Demolition		5	11/15/16	11/21/16
M2H36C-1000	H-1660+00 to H-1700+00, Clear & Grubb	5	11/15/16	11/21/16
RCBC & Irrigation Relocation		80	11/22/16	03/21/17
M2H36BC-100	H-1660+00 to H-1700+00, Precast Irrigation Culverts and Canal/Ditch Work	80	11/22/16	03/21/17
Track		168	05/02/17	12/21/17
M2H36TE-110	H-1660+00 to H-1700+00, HST Track Common Fill	27	05/02/17	06/08/17
M2H36TE-120	H-1660+00 to H-1700+00, HST Track Common Fill, Surcharge Wait	180	06/09/17	12/05/17
M2H36TE-130	H-1660+00 to H-1700+00, HST Track Subgrade	8	12/06/17	12/15/17
M2H36TE-140	H-1660+00 to H-1700+00, HST Track AC	4	12/18/17	12/21/17
H-1700+00 to H-1710+00(Excelsior)		206	11/08/17	08/22/18
Grubb and Demolition		5	11/08/17	11/15/17
M2H37C-1000	Excelsior Ave. (H-1700+00 to H-1710+00), Clear & Grubb	5	11/08/17	11/15/17
Structure (1 Span)		59	11/16/17	02/06/18
M2H37S-1020	Excelsior Ave., Foundations	8	11/16/17	11/29/17
M2H37S-0001	Excelsior Ave., Start Structure	0	11/16/17	
M2H37S-1040	Excelsior Ave., F/R/P Columns	20	11/27/17	12/22/17
M2H37S-1050	Excelsior Ave., F/R/P Bent Caps	20	12/04/17	01/02/18
M2H37S-1080	Excelsior Ave., Cure Concrete for Precast	21	01/03/18	01/23/18
M2H37S-1110	Excelsior Ave., Place Precast Girders	2	01/24/18	01/25/18
M2H37S-1120	Excelsior Ave., Deck Rebar/Forms & Pour	8	01/26/18	02/06/18
Access Road		80	05/01/18	08/22/18
M2H37S-1090	Excelsior Ave., Build Embankments to Final Grade	51	05/01/18	07/12/18
M2H37S-1130	Excelsior Ave., Deck & Road Pavements	21	07/13/18	08/10/18
M2H37S-1100	Excelsior Ave., Hydroseed Embankments	5	07/13/18	07/19/18
M2H37S-1140	Excelsior Ave., Landscape/Permanent BMPS/Fencing	18	07/30/18	08/22/18
M2H37S-9000	Excelsior Ave., Open for Traffic & Ready for Track work	0		08/22/18
Track		138	02/07/18	08/17/18
M2H37TE-110	Excelsior Ave. (H-1700+00 to H-1710+00), HST Track Common Fill	7	02/07/18	02/15/18
M2H37TE-120	Excelsior Ave. (H-1700+00 to H-1710+00), HST Track Common Fill, Surcharge ...	180	02/16/18	08/14/18



Remaining Level of Effort
Actual Work
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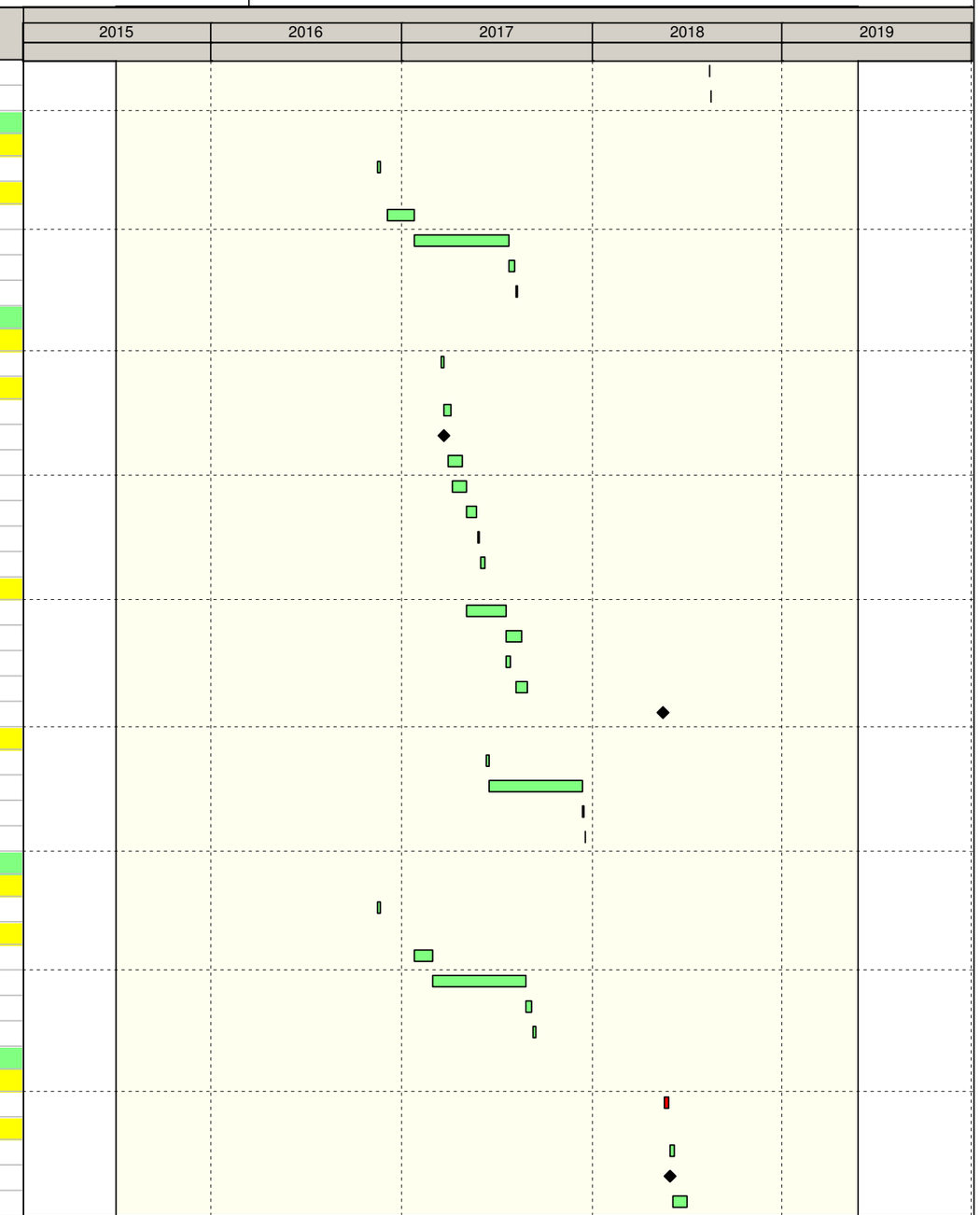
Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M2H37TE-130	Excelsior Ave. (H-1700+00 to H-1710+00), HST Track Subgrade	2	08/15/18	08/16/18
M2H37TE-140	Excelsior Ave. (H-1700+00 to H-1710+00), HST Track AC	1	08/17/18	08/17/18
H-1710+00 to H-1755+00		**194**	**11/15/16**	**08/11/17**
Grubb and Demolition		**5**	**11/15/16**	**11/21/16**
M2H38C-1000	H-1710+00 to H-1755+00, Clear & Grubb	5	11/15/16	11/21/16
Track		**180**	**12/05/16**	**08/11/17**
M2H38TE-110	H-1710+00 to H-1755+00, HST Track Common Fill	35	12/05/16	01/25/17
M2H38TE-120	H-1710+00 to H-1755+00, HST Track Common Fill, Surcharge Wait	180	01/26/17	07/24/17
M2H38TE-130	H-1710+00 to H-1755+00, HST Track Subgrade	9	07/25/17	08/04/17
M2H38TE-140	H-1710+00 to H-1755+00, HST Track AC	5	08/07/17	08/11/17
H-1755+00 to H-1765+00 (Elder)		**306**	**03/17/17**	**05/18/18**
Grubb and Demolition		**5**	**03/17/17**	**03/23/17**
M2H39C-1000	Elder Ave. (H-1755+00 to H-1765+00), Clear & Grubb	5	03/17/17	03/23/17
Structure (1 Span)		**56**	**03/24/17**	**06/09/17**
M2H39S-1020	Elder Ave., Foundations	8	03/24/17	04/04/17
M2H39S-0001	Elder Ave., Start Structure	0	03/24/17	
M2H39S-1040	Elder Ave., F/R/P Columns	20	03/31/17	04/27/17
M2H39S-1050	Elder Ave., F/R/P Bent Caps	20	04/07/17	05/04/17
M2H39S-1080	Elder Ave., Cure Concrete for Precast	21	05/05/17	05/25/17
M2H39S-1110	Elder Ave., Place Precast Girders	2	05/26/17	05/30/17
M2H39S-1120	Elder Ave., Deck Rebar/Forms & Pour	8	05/31/17	06/09/17
Access Road		**261**	**05/05/17**	**05/18/18**
M2H39S-1090	Elder Ave., Build Embankments to Final Grade	53	05/05/17	07/20/17
M2H39S-1130	Elder Ave., Deck & Roads Pavements	21	07/21/17	08/18/17
M2H39S-1100	Elder Ave., Hydroseed Embankments	5	07/21/17	07/27/17
M2H39S-1140	Elder Ave., Landscape/Permanent BMPS/Fencing	17	08/07/17	08/29/17
M2H39S-9000	Elder Ave., Open for Traffic & Ready for Track work	0		05/18/18
Track		**136**	**06/12/17**	**12/18/17**
M2H39TE-110	Elder Ave. (H-1755+00 to H-1765+00), HST Track Common Fill	5	06/12/17	06/16/17
M2H39TE-120	Elder Ave. (H-1755+00 to H-1765+00), HST Track Common Fill, Surcharge Wait	180	06/17/17	12/13/17
M2H39TE-130	Elder Ave. (H-1755+00 to H-1765+00), HST Track Subgrade	2	12/14/17	12/15/17
M2H39TE-140	Elder Ave. (H-1755+00 to H-1765+00), HST Track AC	1	12/18/17	12/18/17
H-1765+00 to H-1810+00		**219**	**11/15/16**	**09/15/17**
Grubb and Demolition		**5**	**11/15/16**	**11/21/16**
M2H40C-1000	H-1765+00 to H-1810+00, Clear & Grubb	5	11/15/16	11/21/16
Track		**167**	**01/26/17**	**09/15/17**
M2H40TE-110	H-1765+00 to H-1810+00, HST Track Common Fill	23	01/26/17	02/28/17
M2H40TE-120	H-1765+00 to H-1810+00, HST Track Common Fill, Surcharge Wait	180	03/01/17	08/27/17
M2H40TE-130	H-1765+00 to H-1810+00, HST Track Subgrade	9	08/28/17	09/08/17
M2H40TE-140	H-1765+00 to H-1810+00, HST Track AC	5	09/11/17	09/15/17
H-1810+00 to H-1820+00 (Flint)		**229**	**05/21/18**	**04/04/19**
Grubb and Demolition		**6**	**05/21/18**	**05/29/18**
M2H41C-1000	E. Flint Ave., Clear & Grubb, H-1810+00 to H-1820+00	6	05/21/18	05/29/18
Structure (1 Span)		**56**	**05/30/18**	**08/15/18**
M2H41S-1020	E. Flint Ave., Foundations	8	05/30/18	06/08/18
M2H41S-0001	E. Flint Ave. Ave., Start Structure	0	05/30/18	
M2H41S-1040	E. Flint Ave., F/R/P Columns	20	06/06/18	07/03/18



Remaining Level of Effort
Actual Work
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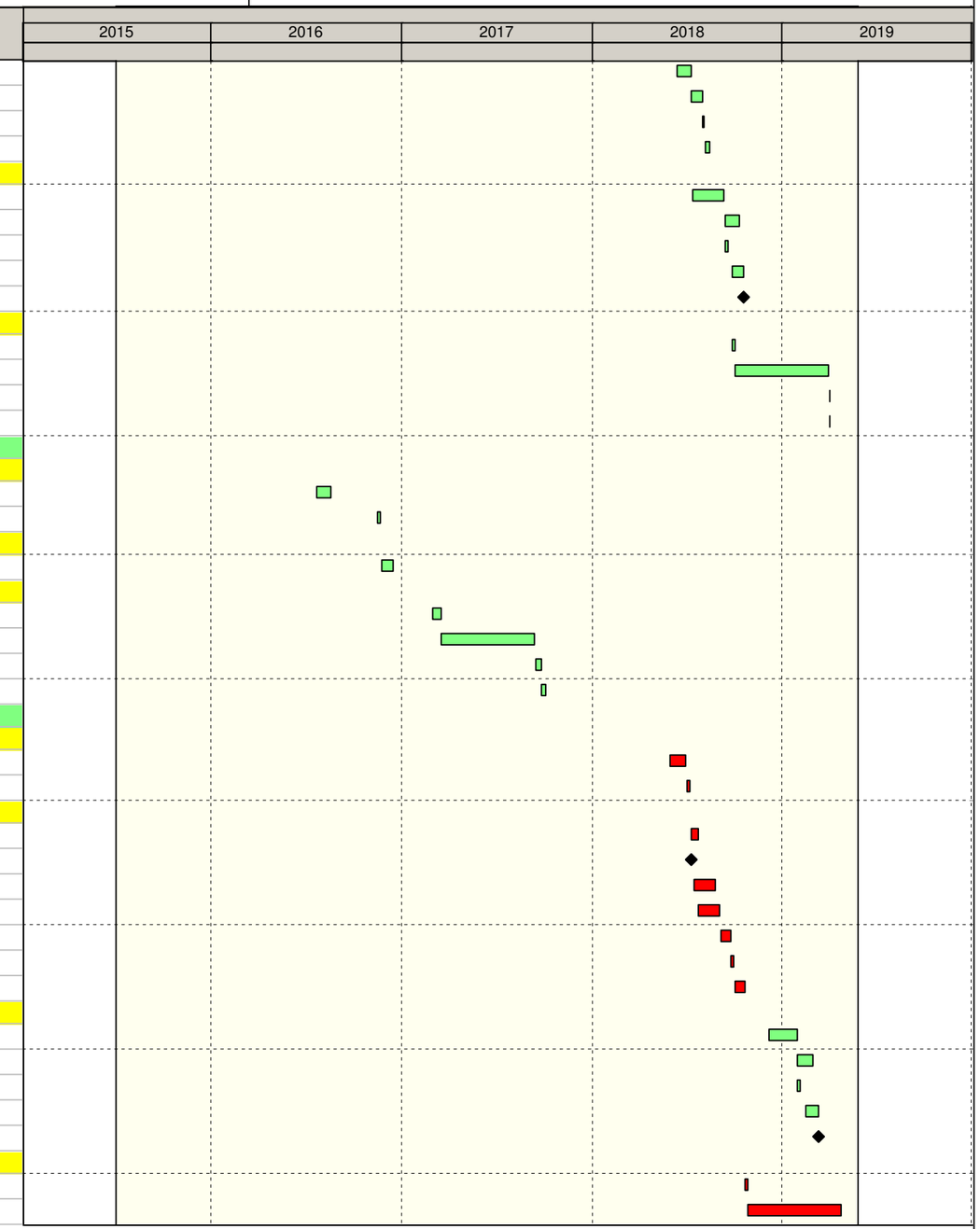
Activity ID	Activity Name	OD	Start	Finish
M2H41S-1050	E. Flint Ave., F/R/P Bent Caps	20	06/13/18	07/11/18
M2H41S-1080	E. Flint Ave., Cure Concrete for Precast	21	07/12/18	08/01/18
M2H41S-1110	E. Flint Ave., Place Precast Girders	2	08/02/18	08/03/18
M2H41S-1120	E. Flint Ave., Deck Rebar/Forms & Pour	8	08/06/18	08/15/18
Access Roads		70	07/13/18	10/19/18
M2H41S-1090	E. Flint Ave., Build Embankments to Final Grade	43	07/13/18	09/12/18
M2H41S-1130	E. Flint Ave., Deck & Road Pavements	20	09/13/18	10/10/18
M2H41S-1100	E. Flint Ave., Hydroseed Embankments	5	09/13/18	09/19/18
M2H41S-1140	E. Flint Ave., Landscape/Permanent BMPS/Fencing	17	09/27/18	10/19/18
M2H41S-9000	E. Flint Ave., Open for Traffic & Ready for Track work	0		10/19/18
Track		135	09/28/18	04/04/19
M2H41TE-110	E. Flint Ave.(H-1810+00 to H-1820+00), HST Track Common Fill	4	09/28/18	10/03/18
M2H41TE-120	E. Flint Ave.(H-1810+00 to H-1820+00), HST Track Common Fill, Surcharge Wait	180	10/04/18	04/01/19
M2H41TE-130	E. Flint Ave.(H-1810+00 to H-1820+00), HST Track Subgrade	2	04/02/19	04/03/19
M2H41TE-140	E. Flint Ave.(H-1810+00 to H-1820+00), HST Track AC	1	04/04/19	04/04/19
H-1820+00 to H-1865+00		314	07/21/16	10/03/17
Grubb and Demolition		86	07/21/16	11/21/16
M2H42C-1010	H-1820+00 to H-1865+00, Demolition	20	07/21/16	08/17/16
M2H42C-1000	H-1820+00 to H-1865+00, Clear & Grubb	5	11/15/16	11/21/16
RCBC & Irrigation Relocation		15	11/22/16	12/14/16
M2H42BCA-100	H-1820+00 to H-1865+00, Precast Irrigation Culverts and Canal/Ditch Work	15	11/22/16	12/14/16
Track		155	03/01/17	10/03/17
M2H42TE-110	H-1820+00 to H-1865+00, HST Track Common Fill	13	03/01/17	03/17/17
M2H42TE-120	H-1820+00 to H-1865+00, HST Track Common Fill, Surcharge Wait	180	03/18/17	09/13/17
M2H42TE-130	H-1820+00 to H-1865+00, HST Track Subgrade	9	09/14/17	09/26/17
M2H42TE-140	H-1820+00 to H-1865+00, HST Track AC	5	09/27/17	10/03/17
H-1865+00 to H-1875+00 (Fargo)		239	05/30/18	04/29/19
Grubb and Demolition		28	05/30/18	07/09/18
M2H43C-1010	Fargo Ave.(H-1865+00 to 1875+00), Demolition	23	05/30/18	06/29/18
M2H43C-1000	Fargo Ave.(H-1865+00 to 1875+00), Clear & Grubb	5	07/02/18	07/09/18
Structure (2 Span)		75	07/10/18	10/22/18
M2H43S-1020	Fargo Ave., Foundations	12	07/10/18	07/25/18
M2H43S-0001	Fargo Ave., Start Structure	0	07/10/18	
M2H43S-1040	Fargo Ave., F/R/P Columns	30	07/17/18	08/27/18
M2H43S-1050	Fargo Ave., F/R/P Bent Caps	30	07/24/18	09/04/18
M2H43S-1080	Fargo Ave., Cure Concrete for Precast	21	09/05/18	09/25/18
M2H43S-1110	Fargo Ave., Place Precast Girders	4	09/26/18	10/01/18
M2H43S-1120	Fargo Ave., Deck Rebar/Forms & Pour	15	10/02/18	10/22/18
Access Roads		64	12/07/18	03/12/19
M2H43S-1090	Fargo Ave., Build Embankments to Final Grade	36	12/07/18	01/30/19
M2H43S-1130	Fargo Ave., Deck & Road Pavements	20	01/31/19	02/28/19
M2H43S-1100	Fargo Ave., Hydroseed Embankments	5	01/31/19	02/06/19
M2H43S-1140	Fargo Ave., Landscape/Permanent BMPS/Fencing	17	02/15/19	03/12/19
M2H43S-9000	Fargo Ave., Open for Traffic & Ready for Track work	0		03/12/19
Track		135	10/23/18	04/29/19
M2H43TE-110	Fargo Ave., (H-1865+00 to 1875+00), HST Track Common Fill	4	10/23/18	10/26/18
M2H43TE-120	Fargo Ave., (H-1865+00 to 1875+00), HST Track Common Fill, Surcharge Wait	180	10/27/18	04/24/19



Remaining Level of Effort
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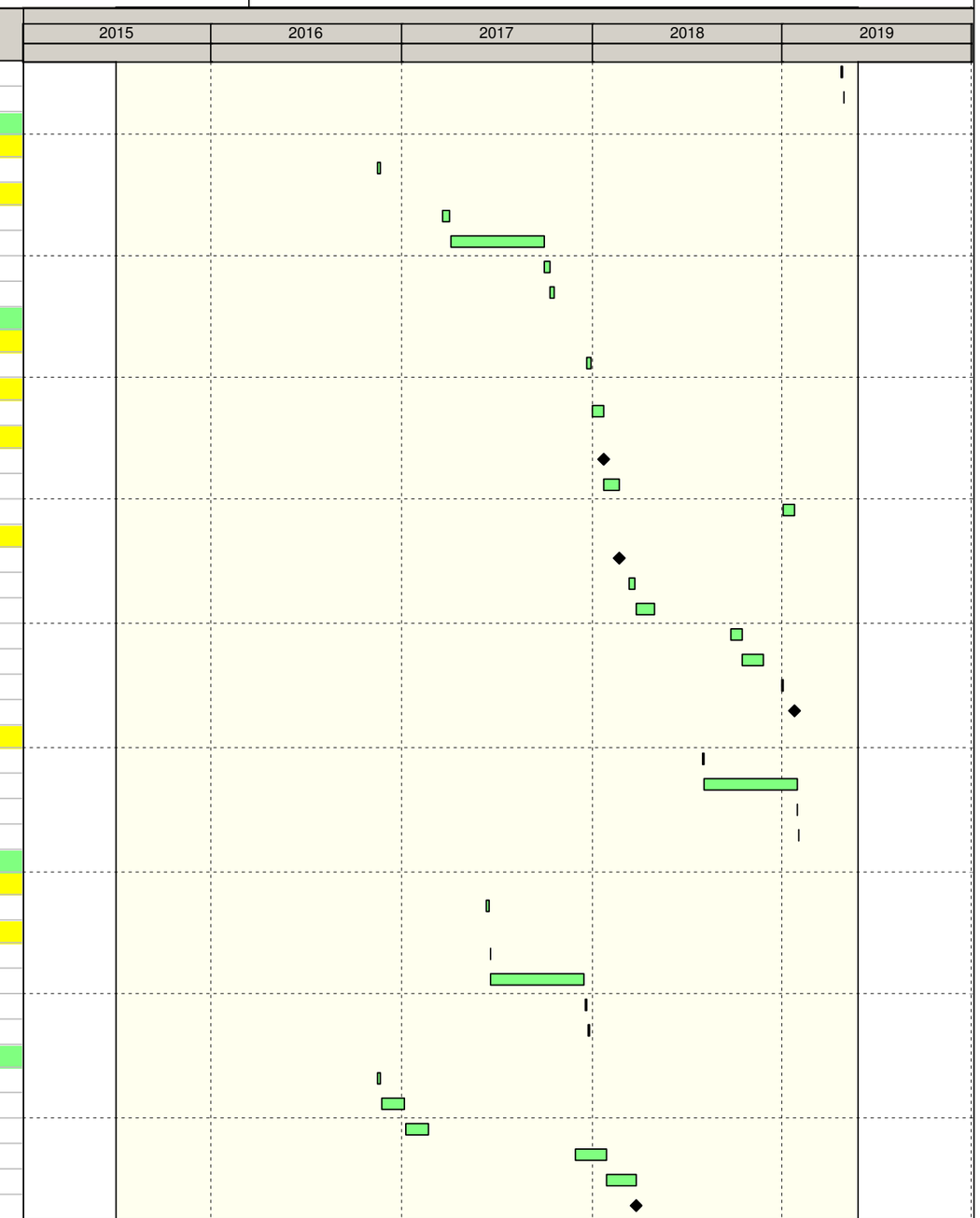
Activity ID	Activity Name	OD	Start	Finish
M2H43TE-130	Fargo Ave., (H-1865+00 to 1875+00), HST Track Subgrade	2	04/25/19	04/26/19
M2H43TE-140	Fargo Ave., (H-1865+00 to 1875+00), HST Track AC	1	04/29/19	04/29/19
H-1875+00 to H1920+00		243	11/15/16	10/19/17
Grubb and Demolition		5	11/15/16	11/21/16
M2H44C-1000	H-1875+00 to H-1920+00, Clear & Grubb	5	11/15/16	11/21/16
Track		154	03/20/17	10/19/17
M2H44TE-110	H-1875+00 to H-1920+00, HST Track Common Fill	11	03/20/17	04/03/17
M2H44TE-120	H-1875+00 to H-1920+00, HST Track Common Fill, Surcharge Wait	180	04/04/17	09/30/17
M2H44TE-130	H-1875+00 to H-1920+00, HST Track Subgrade	9	10/02/17	10/12/17
M2H44TE-140	H-1875+00 to H-1920+00, HST Track AC	5	10/13/17	10/19/17
Bridge H-16 (Grangeville Rd.)		291	12/22/17	02/01/19
Grubb and Demolition		5	12/22/17	12/29/17
M2H45C-1000	Bridge H-16 (Grangeville Rd.) (H-1920+00 to H-1925+00), Clear & Grubb	5	12/22/17	12/29/17
RCBC & Irrigation Relocation		15	01/02/18	01/23/18
M2H45BC-100	Bridge H-16 (Grangeville Rd.) (H-1920+00 to H-1925+00), Precast Irrigation Cul...	15	01/02/18	01/23/18
Roadway		253	01/24/18	01/25/19
M2H45RW-0001	Bridge H-16 (Grangeville Rd.), Start Roadway	0	01/24/18	
M2H45RW-1000	Bridge H-16 (Grangeville Rd.), Excavate Roadway	20	01/24/18	02/21/18
M2H45RW-1010	Bridge H-16 (Grangeville Rd.), Pavement and Completion work	15	01/04/19	01/25/19
Structure		242	02/22/18	01/25/19
M2H45S-0001	Bridge H-16 (Grangeville Rd.), Start Structure	0	02/22/18	
M2H45S-1010	Bridge H-16 (Grangeville Rd.), Foundations	8	03/14/18	03/23/18
M2H45S-1030	Bridge H-16 (Grangeville Rd.), Wing Walls	28	03/26/18	05/02/18
M2H45S-1020	Bridge H-16 (Grangeville Rd.), Abutments	16	09/24/18	10/15/18
M2H45S-1080	Bridge H-16 (Grangeville Rd.), Cure Concrete	28	10/16/18	11/27/18
M2H45S-1110	Bridge H-16 (Grangeville Rd.), Place Precast Girders	2	01/02/19	01/03/19
M2H45S-9000	Bridge H-16 (Grangeville Rd.), Open for Traffic	0		01/25/19
Track		131	08/03/18	02/01/19
M2H45TE-110	Bridge H-16 (Grangeville Rd.) (H-1920+00 to H-1925+00), HST Track Common ...	1	08/03/18	08/03/18
M2H45TE-120	Bridge H-16 (Grangeville Rd.) (H-1920+00 to H-1925+00), HST Track Common ...	180	08/04/18	01/30/19
M2H45TE-130	Bridge H-16 (Grangeville Rd.) (H-1920+00 to H-1925+00), HST Track Subgrade	1	01/31/19	01/31/19
M2H45TE-140	Bridge H-16 (Grangeville Rd.) (H-1920+00 to H-1925+00), HST Track AC	1	02/01/19	02/01/19
H-1925+00 to H-1950+00		144	06/12/17	12/28/17
Grubb and Demolition		5	06/12/17	06/16/17
M2H46C-1000	H-1925+00 to H-1950+00, Clear & Grubb	5	06/12/17	06/16/17
Track		139	06/19/17	12/28/17
M2H46TE-110	H-1925+00 to H-1950+00, HST Track Common Fill	2	06/19/17	06/20/17
M2H46TE-120	H-1925+00 to H-1950+00, HST Track Common Fill, Surcharge Wait	180	06/21/17	12/17/17
M2H46TE-130	H-1925+00 to H-1950+00, HST Track Subgrade	5	12/18/17	12/22/17
M2H46TE-140	H-1925+00 to H-1950+00, HST Track AC	3	12/26/17	12/28/17
H-1950+00 to H-1960+00		404	11/15/16	06/01/18
M2H47C-1000	SJVRR Track (H-1950+00 to H-1960+00), Clear & Grubb along Track	5	11/15/16	11/21/16
M2H47C-1010	SJVRR Track (H-1950+00 to H-1960+00), Relocate Utilities	30	11/22/16	01/06/17
M2H47C-1020	SJVRR Track (H-1950+00 to H-1960+00), Construct Shoofly	30	01/09/17	02/21/17
M2H47C-1030	SJVRR Track (H-1950+00 to H-1960+00), Excavate for SJVRR	40	11/30/17	01/29/18
M2H47C-1040	SJVRR Track (H-1950+00 to H-1960+00), Construct New Track	40	01/30/18	03/27/18
M2H47C-1050	SJVRR Track (H-1950+00 to H-1960+00), New Track Complete	0		03/27/18



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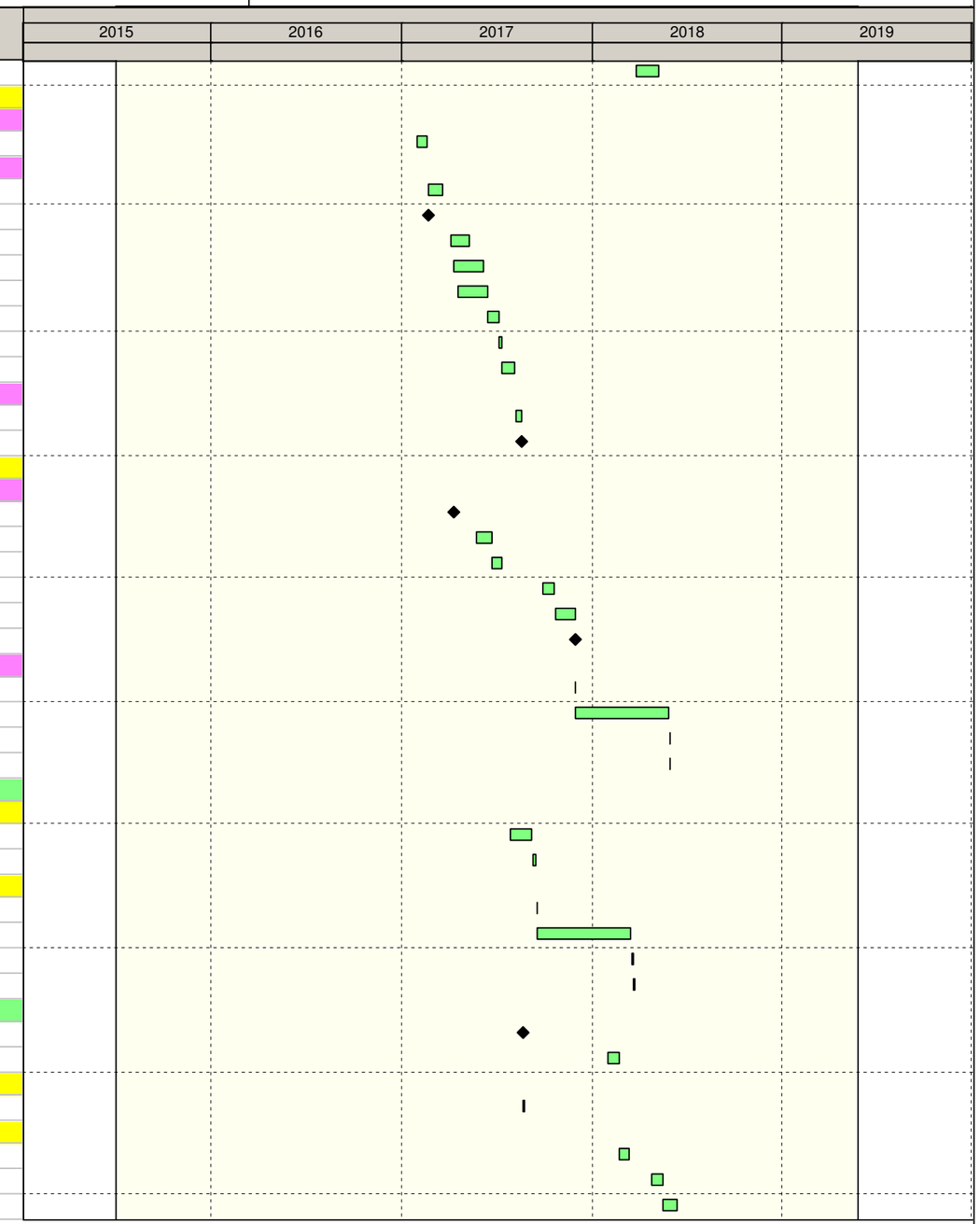
Activity ID	Activity Name	OD	Start	Finish
M2H47C-1060	SJVRR Track (H-1950+00 to H-1960+00), Remove Shoofly & Restore	30	03/28/18	05/08/18
SR43 over SJVRR		**145**	**01/30/17**	**08/18/17**
Grubb and Demolition		**15**	**01/30/17**	**02/17/17**
M2H47BC-1010	SR-43 over SJVRR, Construct Detour	15	01/30/17	02/17/17
Structure (3 Span)		**119**	**02/21/17**	**08/04/17**
M2H47BS-1010	SR-43 over SJVRR, Excavate to Foundations	20	02/21/17	03/20/17
M2H47BS-0001	SR-43 over SJVRR, Start Structure	0	02/21/17	
M2H47BS-1020	SR-43 over SJVRR, Foundations	26	04/05/17	05/10/17
M2H47BS-1040	SR-43 over SJVRR, F/R/P Columns	40	04/12/17	06/07/17
M2H47BS-1050	SR-43 over SJVRR, F/R/P Bent Caps	40	04/19/17	06/14/17
M2H47BS-1080	SR-43 over SJVRR, Cure Concrete for Precast	21	06/15/17	07/05/17
M2H47BS-1110	SR-43 over SJVRR, Place Precast Girders	4	07/06/17	07/11/17
M2H47BS-1120	SR-43 over SJVRR, Deck Rebar/Forms & Pour	18	07/12/17	08/04/17
Access Road		**10**	**08/07/17**	**08/18/17**
M2H47BS-1140	SR-43 over SJVRR, Landscaping/Permanent BMP/Fencing	10	08/07/17	08/18/17
M2H47BS-9000	SR-43 over SJVRR, Open for Traffic	0		08/18/17
Bridge H-17 (HST over SJVRR)		**298**	**04/12/17**	**06/01/18**
Structure (1 Span CIP Box)		**160**	**04/12/17**	**11/29/17**
M2H47AS-0001	Bridge H-17 (HST over SJVRR), Start Structure	0	04/12/17	
M2H47AS-1010	Bridge H-17 (HST over SJVRR), Foundations	22	05/23/17	06/22/17
M2H47AS-1030	Bridge H-17 (HST over SJVRR), Wing Walls	14	06/23/17	07/13/17
M2H47AS-1020	Bridge H-17 (HST over SJVRR), Abutments	16	09/29/17	10/20/17
M2H47AS-1050	Bridge H-17 (HST over SJVRR), F/R/P Box Section	25	10/23/17	11/29/17
M2H47AS-9000	Bridge H-17 (HST over SJVRR), Bridge Complete	0		11/29/17
Track		**132**	**11/30/17**	**06/01/18**
M2H47ATE-110	H-1950+00 to H-1960+00, HST Track Common Fill	1	11/30/17	11/30/17
M2H47ATE-120	H-1950+00 to H-1960+00, HST Track Common Fill, Surcharge Wait	180	12/01/17	05/29/18
M2H47ATE-130	H-1950+00 to H-1960+00, HST Track Subgrade	2	05/30/18	05/31/18
M2H47ATE-140	H-1950+00 to H-1960+00, HST Track AC	1	06/01/18	06/01/18
H-1960+00 to H-1975+00		**171**	**07/28/17**	**03/23/18**
Grubb and Demolition		**35**	**07/28/17**	**09/15/17**
M2H48C-1010	H-1960+00 to H-1975+00, Demolition	30	07/28/17	09/08/17
M2H48C-1000	H-1960+00 to H-1975+00, Clear & Grubb	5	09/11/17	09/15/17
Track		**135**	**09/18/17**	**03/23/18**
M2H48TE-110	H-1960+00 to H-1975+00, HST Track Common Fill	1	09/18/17	09/18/17
M2H48TE-120	H-1960+00 to H-1975+00, HST Track Common Fill, Surcharge Wait	180	09/19/17	03/17/18
M2H48TE-130	H-1960+00 to H-1975+00, HST Track Subgrade	3	03/19/18	03/21/18
M2H48TE-140	H-1960+00 to H-1975+00, HST Track AC	2	03/22/18	03/23/18
Bridge H-18 (HST over SR198)		**418**	**08/21/17**	**03/27/19**
M2H49-0001	Bridge H-18 (HST over SR198), Start Work	0	08/21/17	
M2H49-0010	Bridge H-18 (HST over SR198), Foundation Testing	15	01/31/18	02/21/18
Grubb and Demolition		**5**	**08/21/17**	**08/25/17**
M2H49C-1000	Bridge H-18 (HST over SR198), Clear & Grubb	5	08/21/17	08/25/17
Structure		**94**	**02/22/18**	**07/03/18**
M2H49S-1010	Bridge H-18 (HST over SR198), Foundations	14	02/22/18	03/13/18
M2H49S-1020	Bridge H-18 (HST over SR198), Abutments	16	04/25/18	05/16/18
M2H49S-1040	Bridge H-18 (HST over SR198), F/R/P Columns	20	05/17/18	06/14/18



Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

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Construction Package 2-3
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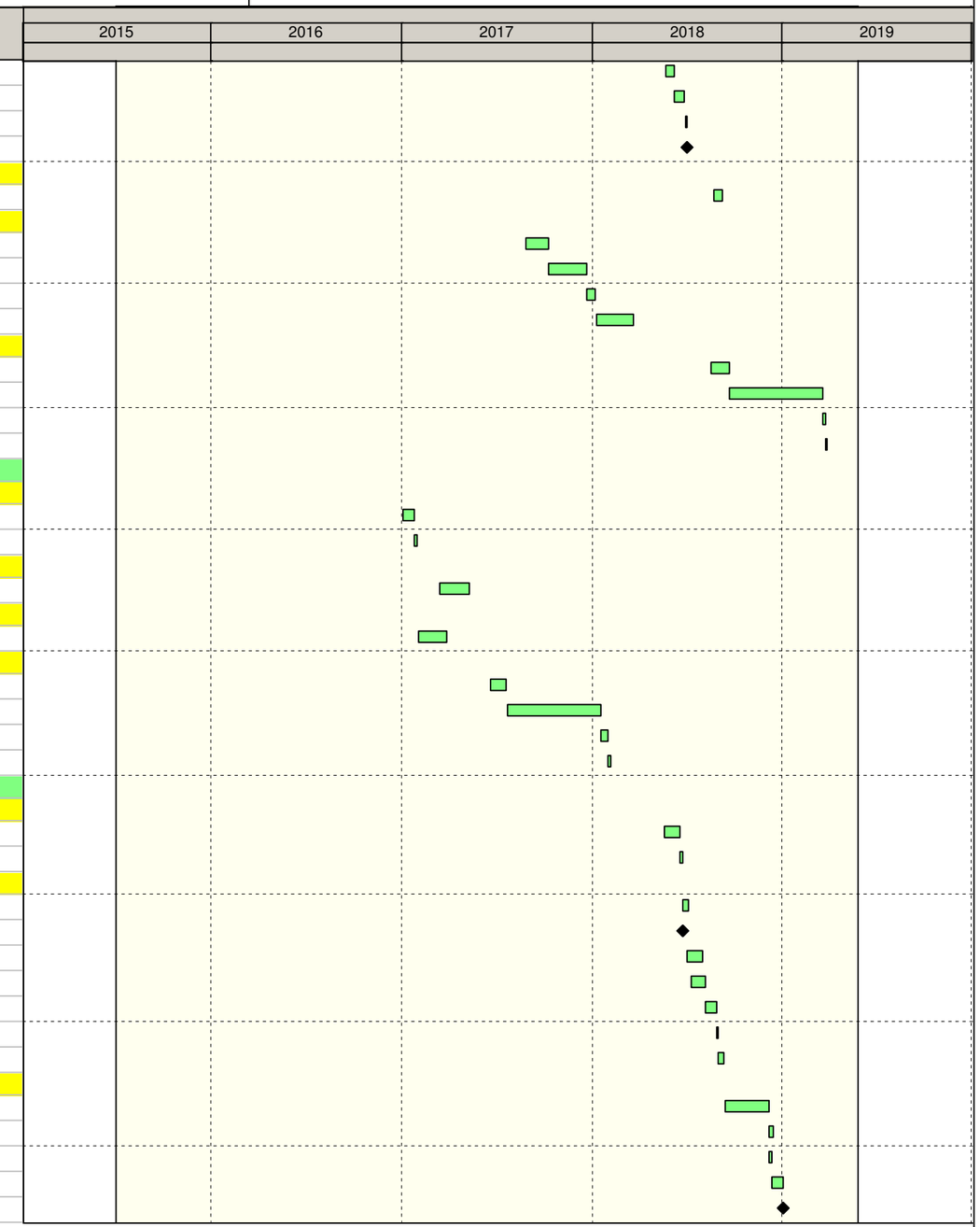
Activity ID	Activity Name	OD	Start	Finish
M2H49S-1050	Bridge H-18 (HST over SR198), F/R/P Bent Caps	10	05/24/18	06/07/18
M2H49S-1080	Bridge H-18 (HST over SR198), Cure Concrete	21	06/08/18	06/28/18
M2H49S-1110	Bridge H-18 (HST over SR198), Place Precast Girders	3	06/29/18	07/03/18
M2H49S-9000	Bridge H-18 (HST over SR198), Bridge Complete	0		07/03/18
RCBC & Irrigation Relocation		10	08/24/18	09/07/18
M2H49BC-100	Bridge H-18 (HST over SR198) (H-1975+00 to H-1980+00), Precast Irrigation C...	10	08/24/18	09/07/18
Roadway		140	08/28/17	03/21/18
M2H49RW-1000	Bridge H-18 (HST over SR198), Construct Temporary Roadway	30	08/28/17	10/09/17
M2H49RW-1100	Bridge H-18 (HST over SR198), Excavate/Pave WB Roadway	50	10/10/17	12/21/17
M2H49RW-1200	Bridge H-18 (HST over SR198), Move Traffic to WB and Remove Tempary Roa...	10	12/22/17	01/08/18
M2H49RW-1210	Bridge H-18 (HST over SR198), Excavate/Pave EB Roadway	50	01/09/18	03/21/18
Track		159	08/17/18	03/27/19
M2H49TE-110	Bridge H-18 (HST over SR198) (H-1975+00 to H-1980+00), HST Track Commo...	25	08/17/18	09/21/18
M2H49TE-120	Bridge H-18 (HST over SR198) (1975+00 to 1980+00), HST Track Common Fill,...	180	09/22/18	03/20/19
M2H49TE-130	Bridge H-18 (HST over SR198) (1975+00 to 1980+00), HST Track Subgrade	3	03/21/19	03/25/19
M2H49TE-140	Bridge H-18 (HST over SR198) (1975+00 to 1980+00), HST Track AC	2	03/26/19	03/27/19
H-1980+00 to H-2025+00		286	01/03/17	02/06/18
Grubb and Demolition		20	01/03/17	01/31/17
M2H50C-1010	H-2008+00 to H-2011+00, Demolition	15	01/03/17	01/24/17
M2H50C-1000	H-1980+00 to H-2025+00, Clear & Grubb	5	01/25/17	01/31/17
Structure		40	03/15/17	05/09/17
M2H50S-1000	Box H-19 (Baker Access), H-1980+00 to H-2025+00, CIP Box Culvert and Walls	40	03/15/17	05/09/17
RCBC & Irrigation Relocation		40	02/01/17	03/29/17
M2H50BCA-100	H-1980+00 to H-2025+00, Precast Irrigation Culverts and Canal/Ditch Work	40	02/01/17	03/29/17
Track		165	06/21/17	02/06/18
M2H50TE-110	H-1980+00 to H-2025+00, HST Track Common Fill	22	06/21/17	07/21/17
M2H50TE-120	H-1980+00 to H-2025+00, HST Track Common Fill, Surcharge Wait	180	07/22/17	01/17/18
M2H50TE-130	H-1980+00 to H-2025+00, HST Track Subgrade	9	01/18/18	01/30/18
M2H50TE-140	H-1980+00 to H-2025+00, HST Track AC	5	01/31/18	02/06/18
H-2025+00 to H-2035+00 (Hanford)		226	05/21/18	04/01/19
Grubb and Demolition		25	05/21/18	06/25/18
M2H51C-1010	Hanford Arm. Rd (H-2025+00 to H-2031+00), Demolition	20	05/21/18	06/18/18
M2H51C-1000	Hanford Arm. Rd (H-2025+00 to H-2031+00), Clear & Grubb	5	06/19/18	06/25/18
Structure (1 Span)		57	06/26/18	09/12/18
M2H51S-1020	Hanford Arm. Rd, Foundations	8	06/26/18	07/06/18
M2H51S-0001	Hanford Arm. Rd, Start Structure	0	06/26/18	
M2H51S-1040	Hanford Arm. Rd, F/R/P Columns	20	07/03/18	07/31/18
M2H51S-1050	Hanford Arm. Rd, F/R/P Bent Caps	20	07/11/18	08/07/18
M2H51S-1080	Hanford Arm. Rd, Cure Concrete for Precast	21	08/08/18	08/28/18
M2H51S-1110	Hanford Arm. Rd, Place Precast Girders	2	08/29/18	08/30/18
M2H51S-1120	Hanford Arm. Rd, Deck Rebar/Forms & Pour	8	08/31/18	09/12/18
Access Road		76	09/13/18	01/03/19
M2H51S-1090	Hanford Arm. Rd, Build Embankments to Final Grade + box culvert	58	09/13/18	12/06/18
M2H51S-1130	Hanford Arm. Rd, Deck & Road Pavements	6	12/07/18	12/14/18
M2H51S-1100	Hanford Arm. Rd, Hydroseed Embankments	5	12/07/18	12/13/18
M2H51S-1140	Hanford Arm. Rd, Landscape/Permanent BMPS/Fencing	15	12/12/18	01/03/19
M2H51S-9000	Hanford Arm. Rd, Open for Traffic & Ready for Track work	0		01/03/19



Remaining Level of Effort
Actual Work
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Milestone

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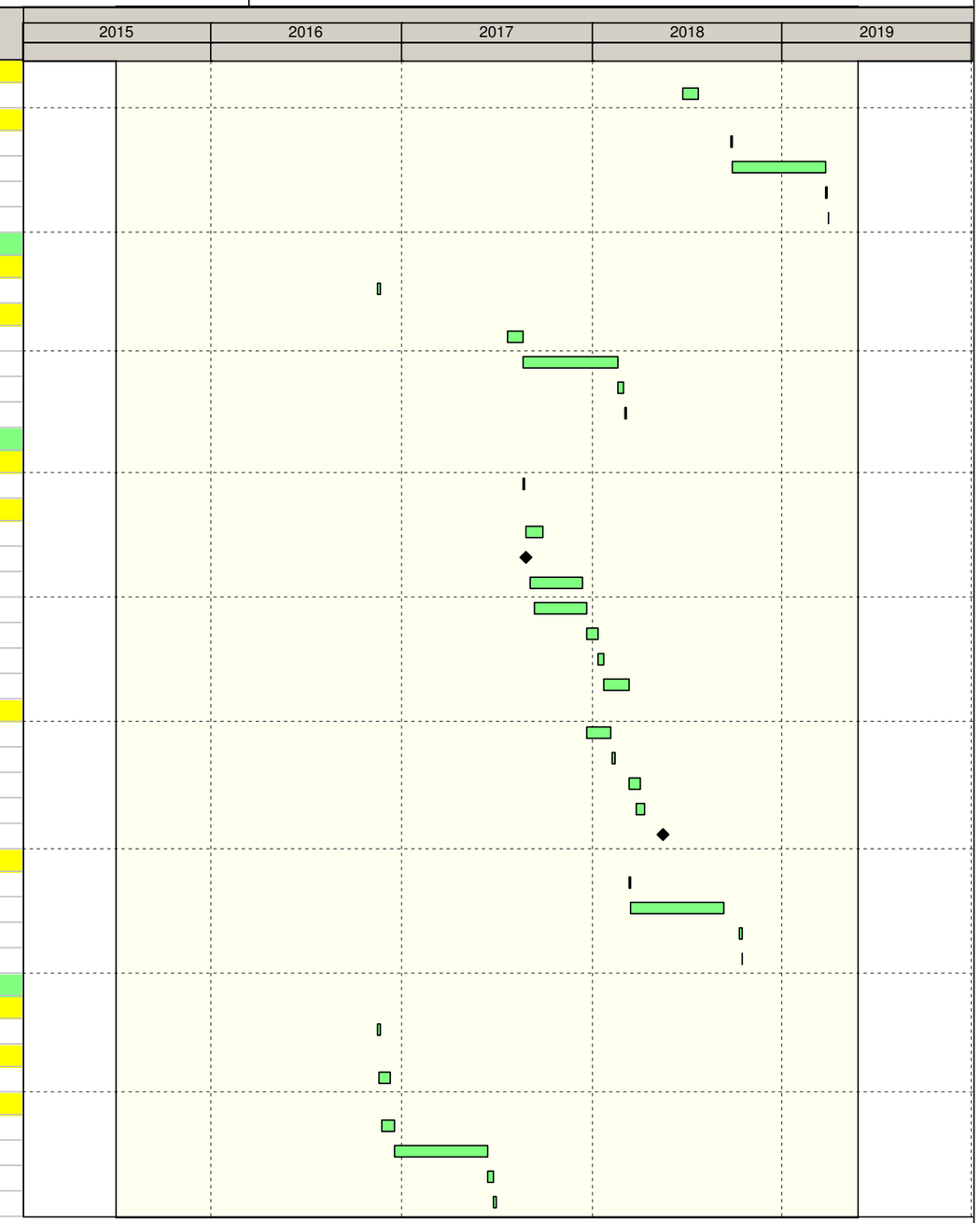
Activity ID	Activity Name	OD	Start	Finish
RCBC & Irrigation Relocation		20	06/26/18	07/24/18
M2H51BCA-100	Hanford Arm. Rd (H-2025+00 to H-2035+00), Precast Irrigation Culverts and Ca...	20	06/26/18	07/24/18
Track		136	09/24/18	04/01/19
M2H51TE-110	Hanford Arm. Rd (H-2025+00 to H-2035+00), HST Track Common Fill	4	09/24/18	09/27/18
M2H51TE-120	Hanford Arm. Rd (H-2025+00 to H-2035+00), HST Track Common Fill, Surcharg...	180	09/28/18	03/26/19
M2H51TE-130	Hanford Arm. Rd (H-2025+00 to H-2035+00), HST Track Subgrade	3	03/27/19	03/29/19
M2H51TE-140	Hanford Arm. Rd (H-2025+00 to H-2035+00), HST Track AC	1	04/01/19	04/01/19
H-2035+00 to H-2080+00		344	11/15/16	03/09/18
Grubb and Demolition		5	11/15/16	11/21/16
M2H52C-1000	H-2035+00 to H-2080+00, Clear & Grubb	5	11/15/16	11/21/16
Track		165	07/24/17	03/09/18
M2H52TE-110	H-2035+00 to H-2080+00, HST Track Common Fill	22	07/24/17	08/22/17
M2H52TE-120	H-2035+00 to H-2080+00, HST Track Common Fill, Surcharge Wait	180	08/23/17	02/18/18
M2H52TE-130	H-2035+00 to H-2080+00, HST Track Subgrade	9	02/20/18	03/02/18
M2H52TE-140	H-2035+00 to H-2080+00, HST Track AC	5	03/05/18	03/09/18
H-2080+00 to H-2090+00 (Houston)		302	08/21/17	10/16/18
Grubb and Demolition		5	08/21/17	08/25/17
M2H53C-1000	Houston Ave. (H-2080+00 to H-2090+00), Clear & Grubb	5	08/21/17	08/25/17
Structure (6 Span)		141	08/28/17	03/12/18
M2H53S-1020	Houston Ave., Foundations	23	08/28/17	09/28/17
M2H53S-0001	Houston Ave., Start Structure	0	08/28/17	
M2H53S-1040	Houston Ave., F/R/P Columns	70	09/05/17	12/14/17
M2H53S-1050	Houston Ave., F/R/P Bent Caps	70	09/12/17	12/21/17
M2H53S-1080	Houston Ave., Cure Concrete for Precast	21	12/22/17	01/11/18
M2H53S-1110	Houston Ave., Place Precast Girders	7	01/12/18	01/23/18
M2H53S-1120	Houston Ave., Deck Rebar/Forms & Pour	33	01/24/18	03/12/18
Access Road		102	12/22/17	05/18/18
M2H53S-1090	Houston Ave., Build Embankments to Final Grade	31	12/22/17	02/07/18
M2H53S-1100	Houston Ave., Hydroseed Embankments	5	02/08/18	02/14/18
M2H53S-1130	Houston Ave., Deck & Road Pavements	17	03/13/18	04/04/18
M2H53S-1140	Houston Ave., Landscape/Permanent BMPS/Fencing	15	03/26/18	04/13/18
M2H53S-9000	Houston Ave., Open for Traffic & Ready for Track work	0		05/18/18
Track		156	03/13/18	10/16/18
M2H53TE-110	Houston Ave. (H-2080+00 to H-2090+00), HST Track Common Fill	4	03/13/18	03/16/18
M2H53TE-120	Houston Ave. (H-2080+00 to H-2090+00), HST Track Common Fill, Surcharge ...	180	03/17/18	09/12/18
M2H53TE-130	Houston Ave. (H-2080+00 to H-2090+00), HST Track Subgrade	2	10/12/18	10/15/18
M2H53TE-140	Houston Ave. (H-2080+00 to H-2090+00), HST Track AC	1	10/16/18	10/16/18
H-2090+00 to H-2130+00		164	11/15/16	06/30/17
Grubb and Demolition		5	11/15/16	11/21/16
M2H54C-1000	H-2090+00 to H-2130+00, Clear & Grubb	5	11/15/16	11/21/16
RCBC & Irrigation Relocation		15	11/17/16	12/09/16
M2H54BC-100	H-2090+00 to H-2130+00, Prep/Place Precast Culverts	15	11/17/16	12/09/16
Track		159	11/22/16	06/30/17
M2H54TE-110	H-2090+00 to H-2130+00, HST Track Common Fill	17	11/22/16	12/16/16
M2H54TE-120	H-2090+00 to H-2130+00, HST Track Common Fill, Surcharge Wait	180	12/17/16	06/14/17
M2H54TE-130	H-2090+00 to H-2130+00, HST Track Subgrade	8	06/15/17	06/26/17
M2H54TE-140	H-2090+00 to H-2130+00, HST Track AC	4	06/27/17	06/30/17



Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
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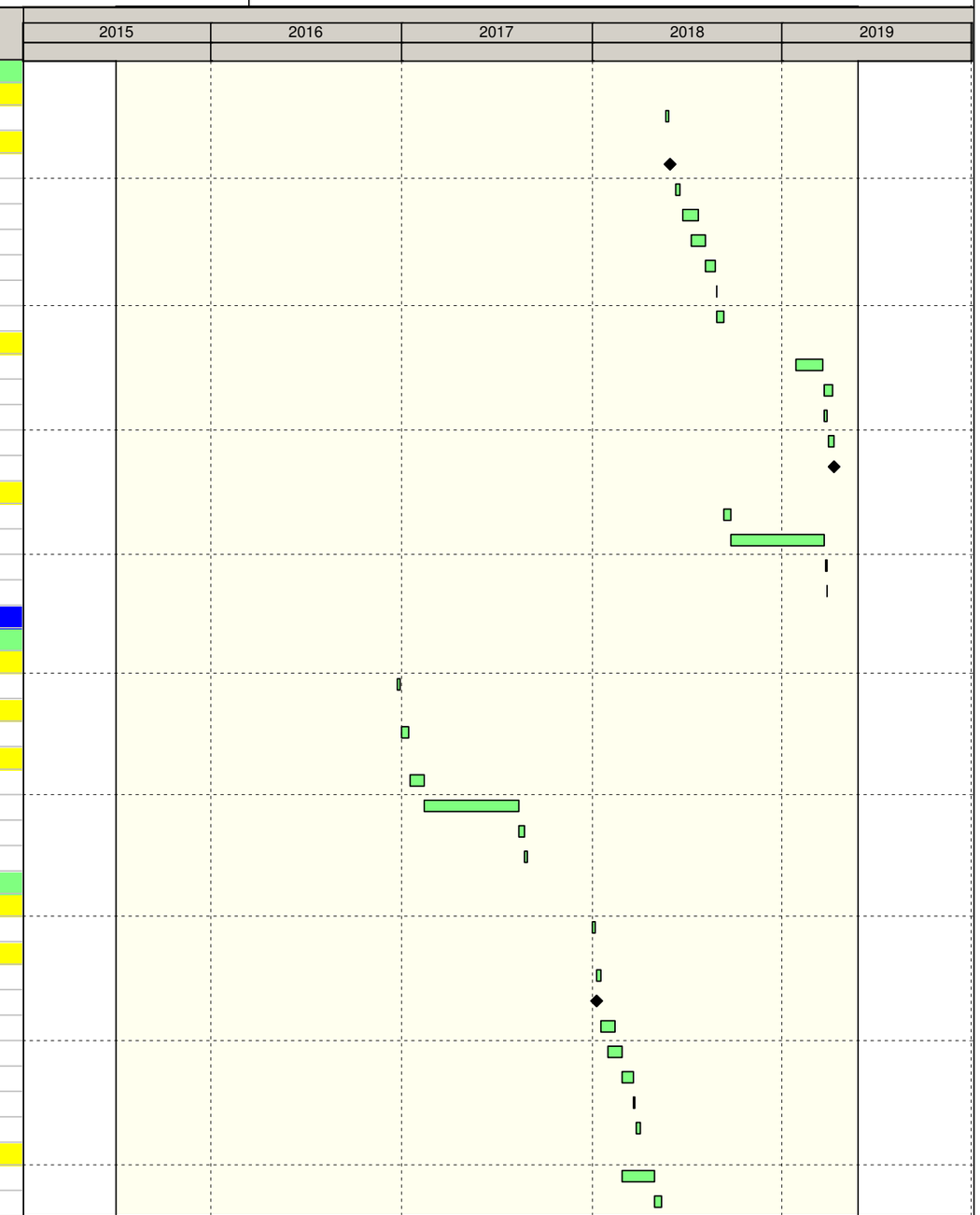
Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
H-2130+00 to H-2145+00 (Iona)		234	05/22/18	04/12/19
Grubb and Demolition		5	05/22/18	05/29/18
M2H55C-1000	Iona Ave. (H-2130+00 to H-2145+00), Clear & Grubb	5	05/22/18	05/29/18
Structure (1 Span)		75	05/30/18	09/11/18
M2H55S-0001	Iona Ave., Start Structure	0	05/30/18	
M2H55S-1020	Iona Ave., Foundations	8	06/11/18	06/20/18
M2H55S-1040	Iona Ave., F/R/P Columns	20	06/25/18	07/23/18
M2H55S-1050	Iona Ave., F/R/P Bent Caps	20	07/10/18	08/06/18
M2H55S-1080	Iona Ave., Cure Concrete for Precast	21	08/07/18	08/27/18
M2H55S-1110	Iona Ave., Place Precast Girders	2	08/28/18	08/29/18
M2H55S-1120	Iona Ave., Deck Rebar/Forms & Pour	8	08/30/18	09/11/18
Access Road		54	01/28/19	04/12/19
M2H55S-1090	Iona Ave., Build Embankments to Final Grade + box culvert	38	01/28/19	03/21/19
M2H55S-1130	Iona Ave., Deck & Road Pavements	12	03/22/19	04/08/19
M2H55S-1100	Iona Ave., Hydroseed Embankments	5	03/22/19	03/28/19
M2H55S-1140	Iona Ave., Landscape/Permanent BMPS/Fencing	10	04/01/19	04/12/19
M2H55S-9000	Iona Ave., Open for Traffic & Ready for Track work	0		04/12/19
Track		143	09/12/18	03/29/19
M2H55TE-110	Iona Ave. (H-2130+00 to H-2145+00), HST Track Common Fill	9	09/12/18	09/24/18
M2H55TE-120	Iona Ave. (H-2130+00 to H-2145+00), HST Track Common Fill, Surcharge Wait	180	09/25/18	03/23/19
M2H55TE-130	Iona Ave. (H-2130+00 to H-2145+00), HST Track Subgrade	3	03/25/19	03/27/19
M2H55TE-140	Iona Ave. (H-2130+00 to H-2145+00), HST Track AC	2	03/28/19	03/29/19
Alignment K4		622	11/15/16	04/03/19
K4-2075+00 to K4-2115+00		179	12/22/16	08/29/17
Grubb and Demolition		5	12/22/16	12/29/16
M2K01C-1000	K-2075+00 to K-2115+00, Clear & Grubb	5	12/22/16	12/29/16
RCBC & Irrigation Relocation		10	12/30/16	01/13/17
M2K01BCA-100	K-2075+00 to K-2115+00, Precast Irrigation Culverts and Canal/Ditch Work	10	12/30/16	01/13/17
Track		161	01/17/17	08/29/17
M2K01TE-110	K-2075+00 to K-2115+00. HST Track Common Fill	20	01/17/17	02/13/17
M2K01TE-120	K-2075+00 to K-2115+00. HST Track Common Fill, Surcharge Wait	180	02/14/17	08/12/17
M2K01TE-130	K-2075+00 to K-2115+00. HST Track Subgrade	8	08/14/17	08/23/17
M2K01TE-140	K-2075+00 to K-2115+00. HST Track AC	4	08/24/17	08/29/17
K4-2115+00 to K4-2125+00 (Idaho)		202	01/02/18	10/10/18
Grubb and Demolition		5	01/02/18	01/08/18
M2K02C-1000	Idaho Ave. (K-2115+00 to K-2125+00), Clear & Grubb	5	01/02/18*	01/08/18
Structure (1 Span)		62	01/09/18	04/04/18
M2K02S-1020	Idaho Ave., Foundations	8	01/09/18	01/19/18
M2K02S-0001	Idaho Ave., Start Structure	0	01/09/18	
M2K02S-1040	Idaho Ave., F/R/P Columns	20	01/17/18	02/13/18
M2K02S-1050	Idaho Ave., F/R/P Bent Caps	20	01/31/18	02/28/18
M2K02S-1080	Idaho Ave., Cure Concrete for Precast	21	03/01/18	03/21/18
M2K02S-1110	Idaho Ave., Place Precast Girders	2	03/22/18	03/23/18
M2K02S-1120	Idaho Ave., Deck Rebar/Forms & Pour	8	03/26/18	04/04/18
Access Road		58	03/01/18	05/21/18
M2K02S-1090	Idaho Ave., Build Embankments to Final Grade	43	03/01/18	04/30/18
M2K02S-1130	Idaho Ave., Deck & Road Pavements	11	05/01/18	05/15/18



Remaining Level of Effort
Actual Work
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Milestone

California High-Speed Rail Program
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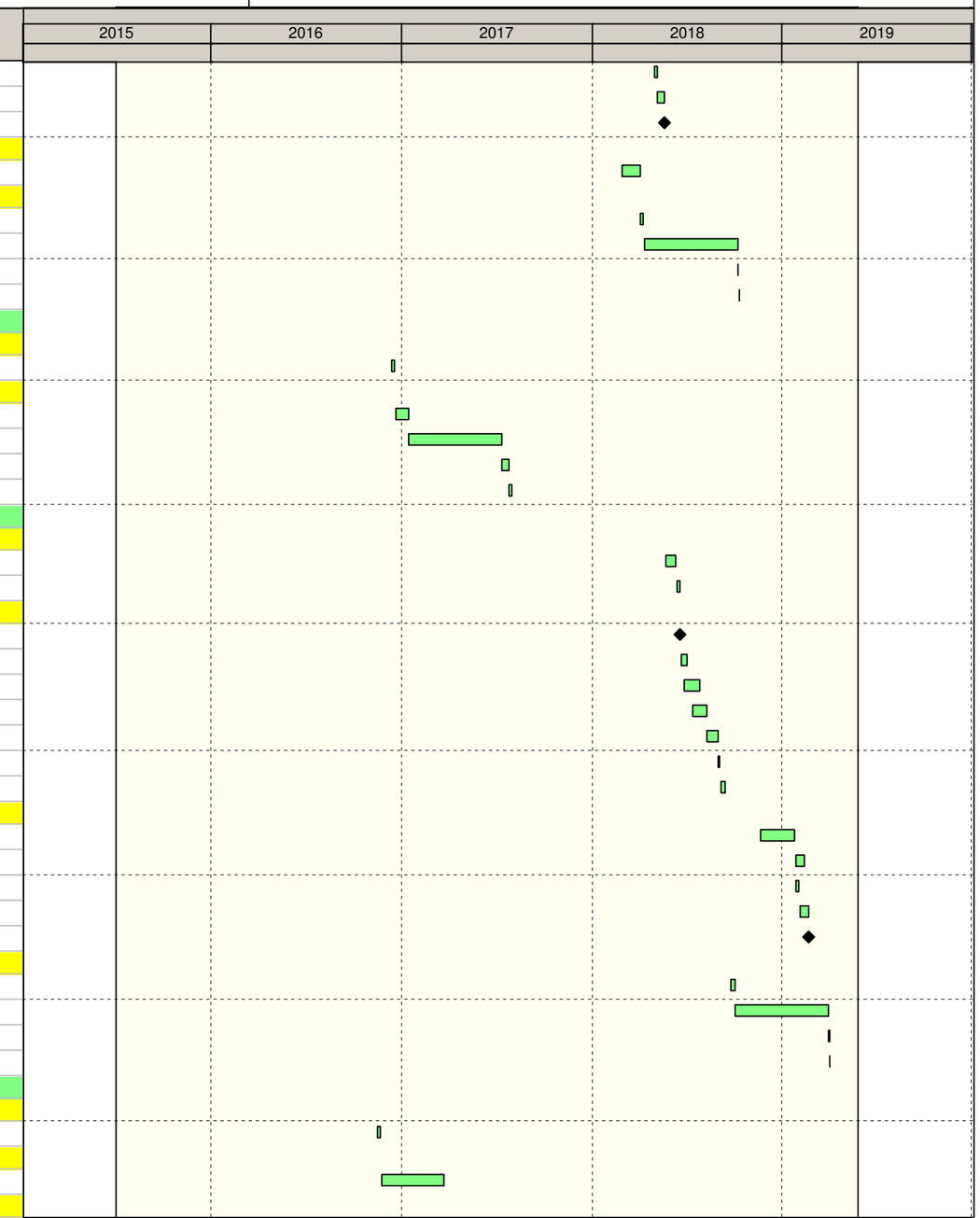
Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M2K02S-1100	Idaho Ave., Hydroseed Embankments	5	05/01/18	05/07/18
M2K02S-1140	Idaho Ave., Landscape/Permanent BMPS/Fencing	10	05/08/18	05/21/18
M2K02S-9000	Idaho Ave., Open for Traffic & Ready for Track work	0		05/21/18
RCBC & Irrigation Relocation		**25**	**03/01/18**	**04/04/18**
M2K02BC-100	Idaho Ave. (K-2115+00 to K-2125+00), Precast Irrigation Culverts and Canal/Dit...	25	03/01/18	04/04/18
Track		**135**	**04/05/18**	**10/10/18**
M2K02TE-110	Idaho Ave. (K-2115+00 to K-2125+00), HST Track Common Fill	4	04/05/18	04/10/18
M2K02TE-120	Idaho Ave. (K-2115+00 to K-2125+00), HST Track Common Fill, Surcharge Wait	180	04/11/18	10/07/18
M2K02TE-130	Idaho Ave. (K-2115+00 to K-2125+00), HST Track Subgrade	2	10/08/18	10/09/18
M2K02TE-140	Idaho Ave. (K-2115+00 to K-2125+00), HST Track AC	1	10/10/18	10/10/18
K4-2125+00 to K4-2170+00		**167**	**12/12/16**	**08/01/17**
Grubb and Demolition		**5**	**12/12/16**	**12/16/16**
M2K03C-1000	K-2125+00 to K-2170+00, Clear & Grubb	5	12/12/16	12/16/16
Track		**162**	**12/19/16**	**08/01/17**
M2K03TE-110	K-2125+00 to K-2170+00, HST Track Common Fill	18	12/19/16	01/13/17
M2K03TE-120	K-2125+00 to K-2170+00, HST Track Common Fill, Surcharge Wait	180	01/14/17	07/12/17
M2K03TE-130	K-2125+00 to K-2170+00, HST Track Subgrade	9	07/13/17	07/25/17
M2K03TE-140	K-2125+00 to K-2170+00, HST Track AC	5	07/26/17	08/01/17
K4-2170+00 to K4-2180+00 (Jackson)		**227**	**05/22/18**	**04/03/19**
Grubb and Demolition		**20**	**05/22/18**	**06/19/18**
M2K04C-1010	Jackson Ave. (K-2170+00 to K-2180+00), Demolition	15	05/22/18	06/12/18
M2K04C-1000	Jackson Ave. (K-2170+00 to K-2180+00), Clear & Grubb	5	06/13/18	06/19/18
Structure (1 Span)		**63**	**06/20/18**	**09/14/18**
M2K04S-0001	Jackson Ave., Start Structure	0	06/20/18	
M2K04S-1020	Jackson Ave., Foundations	8	06/21/18	07/02/18
M2K04S-1040	Jackson Ave., F/R/P Columns	20	06/28/18	07/26/18
M2K04S-1050	Jackson Ave., F/R/P Bent Caps	20	07/13/18	08/09/18
M2K04S-1080	Jackson Ave., Cure Concrete for Precast	21	08/10/18	08/30/18
M2K04S-1110	Jackson Ave., Place Precast Girders	2	08/31/18	09/04/18
M2K04S-1120	Jackson Ave., Deck Rebar/Forms & Pour	8	09/05/18	09/14/18
Access Road		**61**	**11/21/18**	**02/21/19**
M2K04S-1090	Jackson Ave., Build Embankments to Final Grade	43	11/21/18	01/25/19
M2K04S-1130	Jackson Ave., Deck & Road Pavements	13	01/28/19	02/13/19
M2K04S-1100	Jackson Ave., Hydroseed Embankments	5	01/28/19	02/01/19
M2K04S-1140	Jackson Ave., Landscape/Permanent BMPS/Fencing	11	02/06/19	02/21/19
M2K04S-9000	Jackson Ave., Open for Traffic & Ready for Track work	0		02/21/19
Track		**137**	**09/25/18**	**04/03/19**
M2K04TE-110	Jackson Ave. (K-2170+00 to K-2180+00), HST Track Common Fill	6	09/25/18	10/02/18
M2K04TE-120	Jackson Ave. (K-2170+00 to K-2180+00), HST Track Common Fill, Surcharge ...	180	10/03/18	03/31/19
M2K04TE-130	Jackson Ave. (K-2170+00 to K-2180+00), HST Track Subgrade	2	04/01/19	04/02/19
M2K04TE-140	Jackson Ave. (K-2170+00 to K-2180+00), HST Track AC	1	04/03/19	04/03/19
K4-2180+00 to K4-2235+00		**246**	**11/15/16**	**10/24/17**
Grubb and Demolition		**5**	**11/15/16**	**11/21/16**
M2K05C-1000	K-2180+00 to K-2235+00, Clear & Grubb	5	11/15/16	11/21/16
RCBC & Irrigation Relocation		**80**	**11/22/16**	**03/21/17**
M2K05BC-100	K-2180+00 to K-2235+00, Precast Irrigation Culverts and Canal/Ditch Work	80	11/22/16	03/21/17
Track		**178**	**02/17/17**	**10/24/17**



Remaining Level of Effort
Actual Work
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Milestone

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Construction Package 2-3
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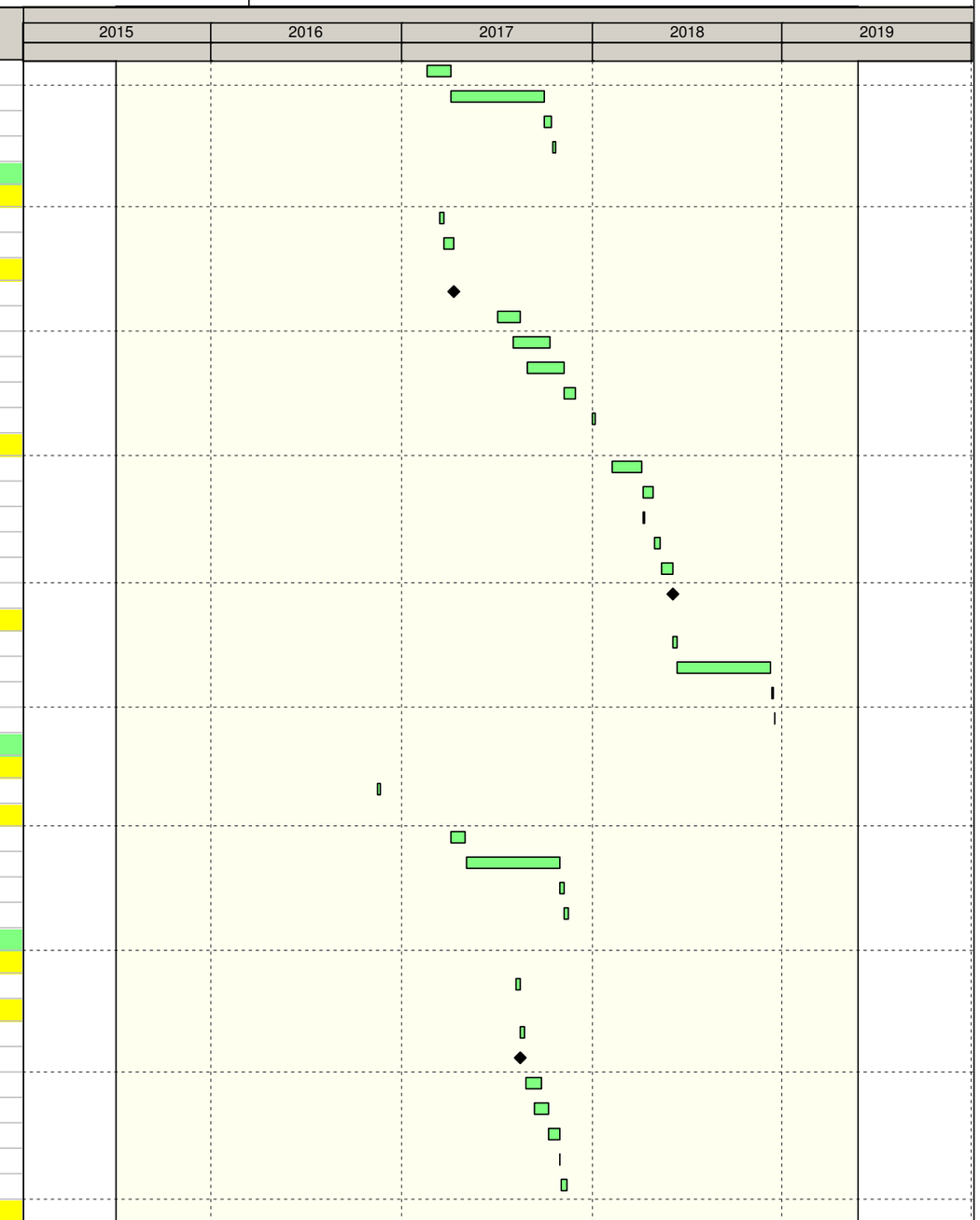
Activity ID	Activity Name	OD	Start	Finish
M2K05TE-110	K-2180+00 to K-2235+00, HST Track Common Fill	32	02/17/17	04/04/17
M2K05TE-120	K-2180+00 to K-2235+00, HST Track Common Fill, Surcharge Wait	180	04/05/17	10/01/17
M2K05TE-130	K-2180+00 to K-2235+00, HST Track Subgrade	11	10/02/17	10/16/17
M2K05TE-140	K-2180+00 to K-2235+00, HST Track AC	6	10/17/17	10/24/17
Bridge K-7 (SR-43 Overpass)		**460**	**03/15/17**	**12/18/18**
Grubb and Demolition		**20**	**03/15/17**	**04/11/17**
M2K06C-1000	Bridge K-7 (SR-43 Overpass) (K-2235+00 to K-2250+00), Clear & Grubb	5	03/15/17	03/21/17
M2K06C-1010	Bridge K-7 (SR-43 Overpass) (K-2235+00 to K-2250+00), SR 43 Detour	15	03/22/17	04/11/17
Structure		**194**	**04/12/17**	**01/08/18**
M2K06S-0001	Bridge K-7 (SR-43 Overpass), Start Structure	0	04/12/17	
M2K06S-1020	Bridge K-7 (SR-43 Overpass), Foundations	32	07/05/17	08/17/17
M2K06S-1040	Bridge K-7 (SR-43 Overpass), F/R/P Columns	50	08/02/17	10/11/17
M2K06S-1050	Bridge K-7 (SR-43 Overpass), F/R/P Col Bents	50	08/30/17	11/08/17
M2K06S-1080	Bridge K-7 (SR-43 Overpass), Cure Concrete for Precast	21	11/09/17	11/29/17
M2K06S-1110	Bridge K-7 (SR-43 Overpass), Place Precast Girders	5	01/02/18	01/08/18
Roadway		**80**	**02/09/18**	**06/04/18**
M2K06S-1090	Bridge K-7 (SR-43 Overpass), Build Embankments to Final Grade	40	02/09/18	04/06/18
M2K06S-1130	Bridge K-7 (SR-43 Overpass), Deck & Road Pavements	15	04/09/18	04/27/18
M2K06S-1100	Bridge K-7 (SR-43 Overpass), Hydroseed Embankments	5	04/09/18	04/13/18
M2K06S-1140	Bridge K-7 (SR-43 Overpass), Landscape/Permanent BMPS/Fencing	10	04/30/18	05/11/18
M2K06S-1150	Bridge K-7 (SR-43 Overpass), Shift traffic and remove detour	15	05/14/18	06/04/18
M2K06S-9000	Bridge K-7 (SR-43 Overpass), Open for Traffic & Ready for Track work	0		06/04/18
Track		**141**	**06/05/18**	**12/18/18**
M2K06TE-110	Bridge K-7 (SR-43 Overpass) (K-2235+00 to K-2250+00), HST Track Common Fill	8	06/05/18	06/14/18
M2K06TE-120	Bridge K-7 (SR-43 Overpass) (K-2235+00 to K-2250+00), HST Track Common ...	180	06/15/18	12/11/18
M2K06TE-130	Bridge K-7 (SR-43 Overpass) (K-2235+00 to K-2250+00), HST Track Subgrade	3	12/12/18	12/14/18
M2K06TE-140	Bridge K-7 (SR-43 Overpass) (K-2235+00 to K-2250+00), HST Track AC	2	12/17/18	12/18/18
K4-2250+00 to K4-2285+00		**262**	**11/15/16**	**11/15/17**
Grubb and Demolition		**5**	**11/15/16**	**11/21/16**
M2K07C-1000	K-2250+00 to K-2285+00, Clear & Grubb	5	11/15/16	11/21/16
Track		**161**	**04/05/17**	**11/15/17**
M2K07TE-110	K-2250+00 to K-2285+00, HST Track Common Fill	21	04/05/17	05/03/17
M2K07TE-120	K-2250+00 to K-2285+00, HST Track Common Fill, Surcharge Wait	180	05/04/17	10/30/17
M2K07TE-130	K-2250+00 to K-2285+00, HST Track Subgrade	7	10/31/17	11/08/17
M2K07TE-140	K-2250+00 to K-2285+00, HST Track AC	4	11/09/17	11/15/17
K4-2285+00 to K4-2295+00 (Kent)		**429**	**08/09/17**	**04/01/19**
Grubb and Demolition		**5**	**08/09/17**	**08/15/17**
M2K08C-1000	Kent Ave. (K-2285+00 to K-2295+00), Clear & Grubb	5	08/09/17	08/15/17
Structure (1 Span)		**64**	**08/16/17**	**11/13/17**
M2K08S-1020	Kent Ave., Foundations	8	08/16/17	08/25/17
M2K08S-0001	Kent Ave., Start Structure	0	08/16/17	
M2K08S-1040	Kent Ave., F/R/P Columns	20	08/28/17	09/25/17
M2K08S-1050	Kent Ave., F/R/P Bent Caps	20	09/12/17	10/09/17
M2K08S-1080	Kent Ave., Cure Concrete for Precast	21	10/10/17	10/30/17
M2K08S-1110	Kent Ave., Place Precast Girders	2	10/31/17	11/01/17
M2K08S-1120	Kent Ave., Deck Rebar/Forms & Pour	8	11/02/17	11/13/17
Access Roads		**69**	**09/13/18**	**12/21/18**



Remaining Level of Effort
Actual Work
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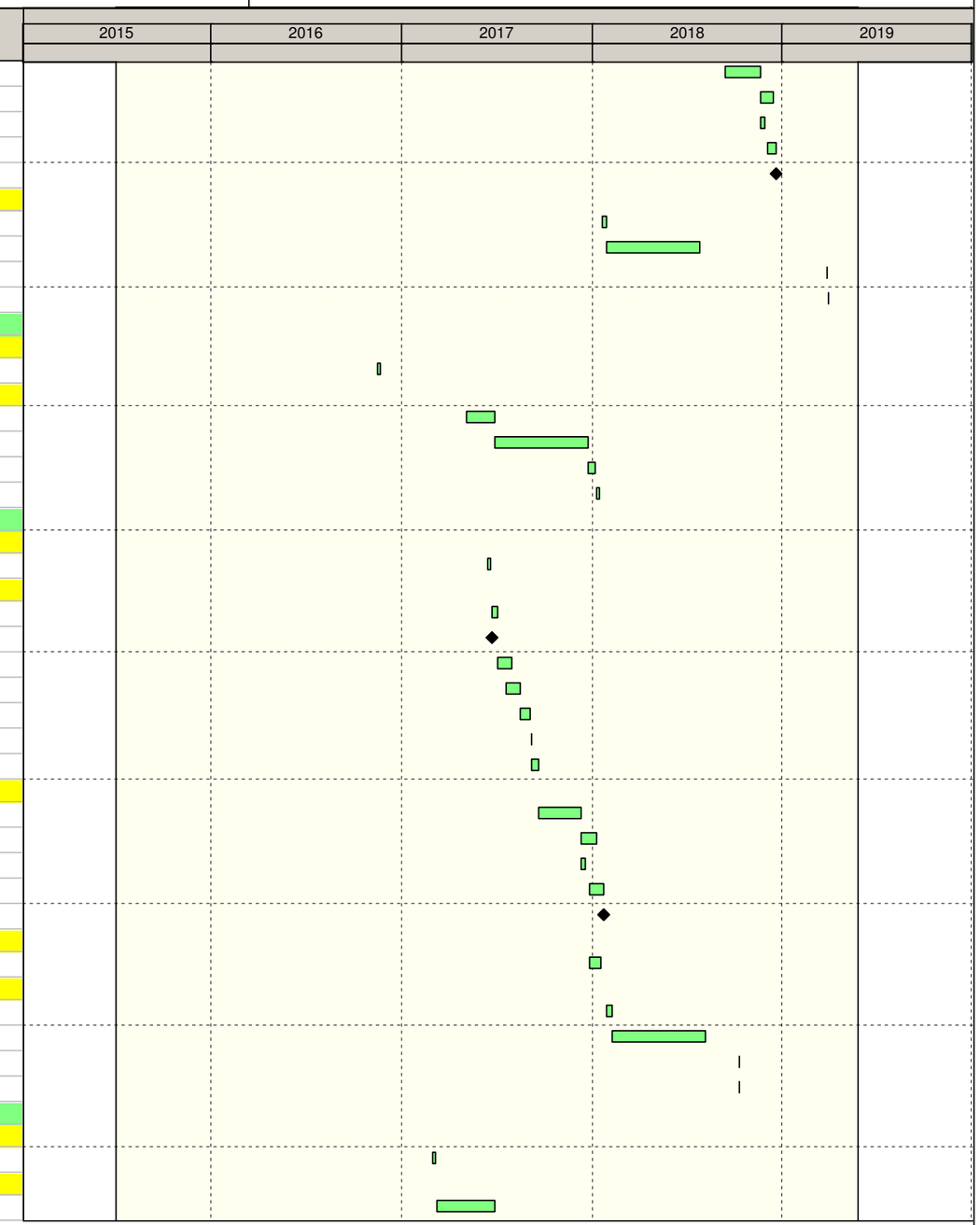
Activity ID	Activity Name	OD	Start	Finish
M2K08S-1090	Kent Ave., Build Embankments to Final Grade	48	09/13/18	11/20/18
M2K08S-1130	Kent Ave., Deck & Road Pavements	16	11/21/18	12/14/18
M2K08S-1100	Kent Ave., Hydroseed Embankments	5	11/21/18	11/29/18
M2K08S-1140	Kent Ave., Landscape/Permanent BMPS/Fencing	13	12/05/18	12/21/18
M2K08S-9000	Kent Ave., Open for Traffic & Ready for Track work	0		12/21/18
Track		311	01/22/18	04/01/19
M2K08TE-110	Kent Ave. (K-2285+00 to K-2295+00), HST Track Common Fill	6	01/22/18	01/29/18
M2K08TE-120	Kent Ave. (K-2285+00 to K-2295+00), HST Track Common Fill, Surcharge Wait	180	01/30/18	07/28/18
M2K08TE-130	Kent Ave. (K-2285+00 to K-2295+00), HST Track Subgrade	2	03/28/19	03/29/19
M2K08TE-140	Kent Ave. (K-2285+00 to K-2295+00), HST Track AC	1	04/01/19	04/01/19
K4-2295+00 to K4-2340+00		306	11/15/16	01/16/18
Grubb and Demolition		5	11/15/16	11/21/16
M2K09C-1000	K-2295+00 to K-2340+00, Clear & Grubb	5	11/15/16	11/21/16
Track		184	05/04/17	01/16/18
M2K09TE-110	K-2295+00 to K-2340+00, HST Track Common Fill	39	05/04/17	06/28/17
M2K09TE-120	K-2295+00 to K-2340+00, HST Track Common Fill, Surcharge Wait	180	06/29/17	12/25/17
M2K09TE-130	K-2295+00 to K-2340+00, HST Track Subgrade	9	12/26/17	01/08/18
M2K09TE-140	K-2295+00 to K-2340+00, HST Track AC	5	01/09/18	01/16/18
K4-2340+00 to K4-2350+00 (Kansas)		347	06/15/17	10/12/18
Grubb and Demolition		5	06/15/17	06/21/17
M2K10C-1000	Kansas Ave. (K-2340+00 to K-2350+00), Clear & Grubb	5	06/15/17	06/21/17
Structure (1 Span)		64	06/22/17	09/19/17
M2K10S-1020	Kansas Ave., Foundations	8	06/22/17	07/03/17
M2K10S-0001	Kansas Ave., Start Structure	0	06/22/17	
M2K10S-1040	Kansas Ave., F/R/P Columns	20	07/05/17	08/01/17
M2K10S-1050	Kansas Ave., F/R/P Bent Caps	20	07/19/17	08/15/17
M2K10S-1080	Kansas Ave., Cure Concrete for Precast	21	08/16/17	09/05/17
M2K10S-1110	Kansas Ave., Place Precast Girders	2	09/06/17	09/07/17
M2K10S-1120	Kansas Ave., Deck Rebar/Forms & Pour	8	09/08/17	09/19/17
Access Roads		82	09/21/17	01/22/18
M2K10S-1090	Kansas Ave., Build Embankments to Final Grade	55	09/21/17	12/11/17
M2K10S-1130	Kansas Ave., Deck & Road Pavements	19	12/12/17	01/09/18
M2K10S-1100	Kansas Ave., Hydroseed Embankments	5	12/12/17	12/18/17
M2K10S-1140	Kansas Ave., Landscape/Permanent BMPS/Fencing	17	12/27/17	01/22/18
M2K10S-9000	Kansas Ave., Open for Traffic & Ready for Track work	0		01/22/18
RCBC & Irrigation Relocation		15	12/27/17	01/18/18
M2K10BCA-100	Kansas Ave. (K-2340+00 to K-2350+00), Precast Irrigation Culverts and Canal/...	15	12/27/17	01/18/18
Track		184	01/30/18	10/12/18
M2K10TE-110	Kansas Ave. (K-2340+00 to K-2350+00), HST Track Common Fill	9	01/30/18	02/09/18
M2K10TE-120	Kansas Ave. (K-2340+00 to K-2350+00), HST Track Common Fill, Surcharge Wait	180	02/10/18	08/08/18
M2K10TE-130	Kansas Ave. (K-2340+00 to K-2350+00), HST Track Subgrade	2	10/10/18	10/11/18
M2K10TE-140	Kansas Ave. (K-2340+00 to K-2350+00), HST Track AC	1	10/12/18	10/12/18
K4-2350+00 to K4-2448+00		346	03/01/17	06/27/18
Grubb and Demolition		5	03/01/17	03/07/17
M2K11C-1000	K-2350+00 to K-2448+00, Clear & Grubb	5	03/01/17	03/07/17
RCBC & Irrigation Relocation		120	03/08/17	08/24/17
M2K11BC-100	K-2350+00 to K-2448+00, CIP Culvert and Canal/Ditch Work	80	03/08/17	06/28/17



Remaining Level of Effort
Actual Work
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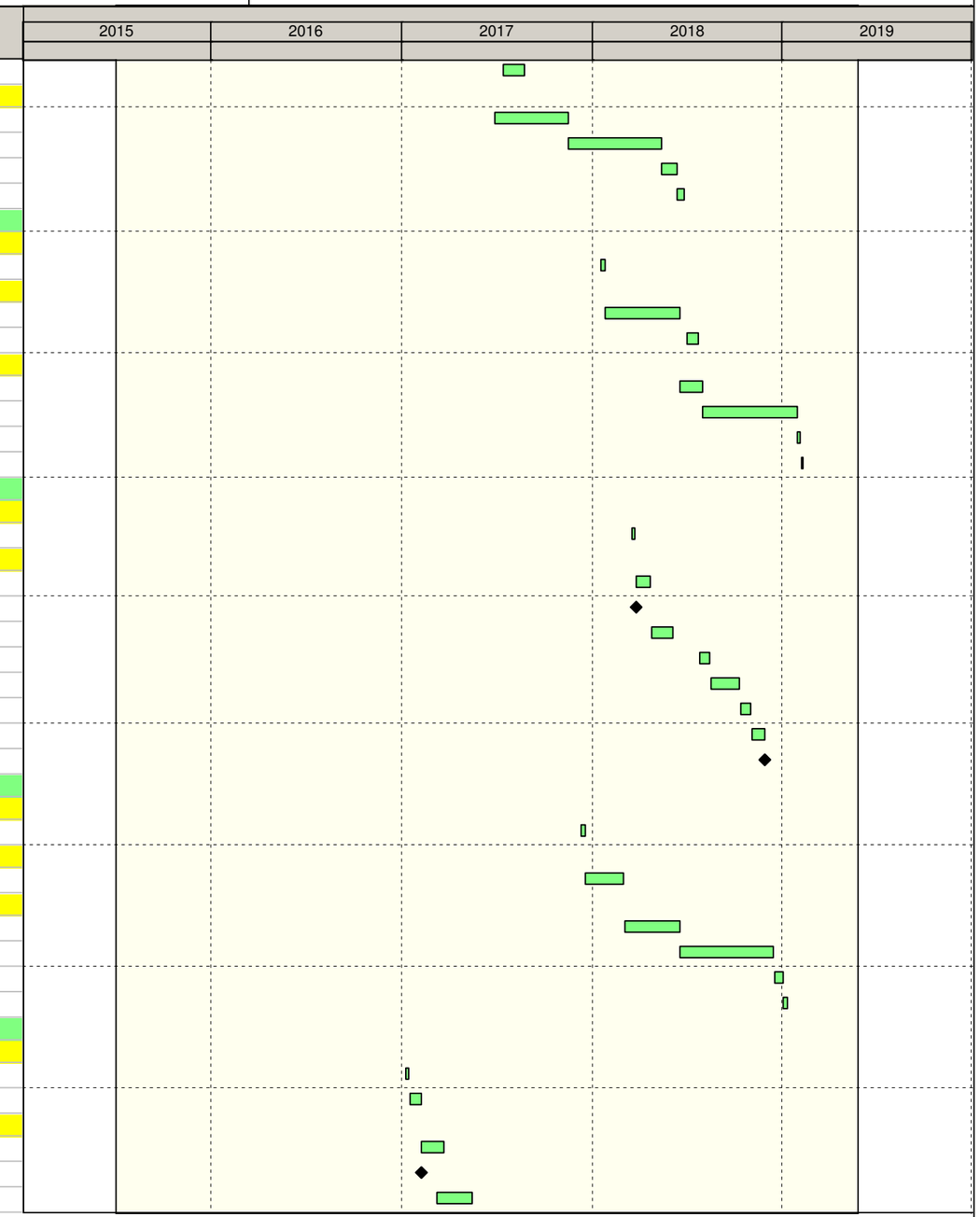
Activity ID	Activity Name	OD	Start	Finish
M2K11BC-110	K-2350+00 to K-2448+00, Prep/Place Precast Culverts	30	07/14/17	08/24/17
Track		260	06/29/17	06/27/18
M2K11TE-110	K-2350+00 to K-2448+00, HST Track Common Fill	98	06/29/17	11/16/17
M2K11TE-120	K-2350+00 to K-2448+00, HST Track Common Fill, Surcharge Wait	180	11/17/17	05/15/18
M2K11TE-130	K-2350+00 to K-2448+00, HST Track Subgrade	20	05/16/18	06/13/18
M2K11TE-140	K-2350+00 to K-2448+00, HST Track AC	10	06/14/18	06/27/18
K4-2448+00 to K4-2480+00		277	01/19/18	02/11/19
Grubb and Demolition		5	01/19/18	01/25/18
M2K12C-1000	K-2448+00 to K-2480+00, Clear & Grubb	5	01/19/18	01/25/18
RCBC & Irrigation Relocation		125	01/26/18	07/24/18
M2K12BCA-100	K-2448+00 to K-2480+00, CIP Culvert and Canal/Ditch Work	100	01/26/18	06/18/18
M2K12BCB-110	K-2448+00 to K-2480+00, Prep/Place Precast Culverts	15	07/03/18	07/24/18
Track		170	06/19/18	02/11/19
M2K12TE-110	K-2448+00 to K-2480+00, HST Track Common Fill (FLOOD)	32	06/19/18	08/02/18
M2K12TE-120	K-2448+00 to K-2480+00, HST Track Common Fill, Surcharge Wait	180	08/03/18	01/29/19
M2K12TE-130	K-2448+00 to K-2480+00, HST Track Subgrade	6	01/30/19	02/06/19
M2K12TE-140	K-2448+00 to K-2480+00, HST Track AC	3	02/07/19	02/11/19
Bridge K-3 (Cross Creek)		183	03/19/18	11/28/18
Grubb and Demolition		5	03/19/18	03/23/18
M2K13C-1000	Bridge K-3 (Cross Creek), (K-2480+00 TO K-2481+00), Clear & Grubb	5	03/19/18	03/23/18
Structure		178	03/26/18	11/28/18
M2K13S-1010	Bridge K-3 (Cross Creek) , Foundations	22	03/26/18	04/24/18
M2K13S-0001	Bridge K-3 (Cross Creek) , Start Structure	0	03/26/18	
M2K13S-1030	Bridge K-3 (Cross Creek) , Wing Walls	28	04/25/18	06/04/18
M2K13S-1020	Bridge K-3 (Cross Creek) , Abutments	16	07/26/18	08/16/18
M2K13S-1060	Bridge K-3 (Cross Creek) , F/R/P Post Tension Beam	40	08/17/18	10/12/18
M2K13S-1080	Bridge K-3 (Cross Creek) , Cure Post Tension Beam	21	10/13/18	11/02/18
M2K13S-1090	Bridge K-3 (Cross Creek) , Post Tension Beam	15	11/05/18	11/28/18
M2K13S-9000	Bridge K-3 (Cross Creek) , Bridge Complete	0		11/28/18
K4-2481+00 to K4-2535+00		283	12/12/17	01/10/19
Grubb and Demolition		5	12/12/17	12/18/17
M2K14C-1000	K-2481+00 to K-2535+00, Clear & Grubb	5	12/12/17	12/18/17
RCBC & Irrigation Relocation		50	12/19/17	03/02/18
M2K14BCA-100	K-2481+00 to K-2535+00, Culverts and Canal/Ditch Work	50	12/19/17	03/02/18
Track		224	03/05/18	01/10/19
M2K14TE-110	K-2481+00 to K-2535+00, HST Track Common Fill	75	03/05/18	06/18/18
M2K14TE-120	K-2481+00 to K-2535+00, HST Track Common Fill, Surcharge Wait	180	06/19/18	12/15/18
M2K14TE-130	K-2481+00 to K-2535+00, HST Track Subgrade	11	12/17/18	01/02/19
M2K14TE-140	K-2481+00 to K-2535+00, HST Track AC	6	01/03/19	01/10/19
Bridge K-8 (SR43 Overpass)		468	01/09/17	10/24/18
Grubb and Demolition		20	01/09/17	02/06/17
M2K15C-1000	Bridge K-8 (SR43 Overpass) (K-2535+00 to K-2545+00), Clear & Grubb	5	01/09/17	01/13/17
M2K15C-1010	Bridge K-8 (SR43 Overpass) (K-2535+00 to K-2545+00), SR 43 Detour	15	01/17/17	02/06/17
Stucture (4 Span)		112	02/07/17	07/12/17
M2K15S-1020	Bridge K-8 (SR43 Overpass), Foundations	32	02/07/17	03/23/17
M2K15S-0001	Bridge K-8 (SR43 Overpass), Start Structure	0	02/07/17	
M2K15S-1040	Bridge K-8 (SR43 Overpass), F/R/P Columns	50	03/08/17	05/16/17



Remaining Level of Effort
Actual Work
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Milestone

California High-Speed Rail Program
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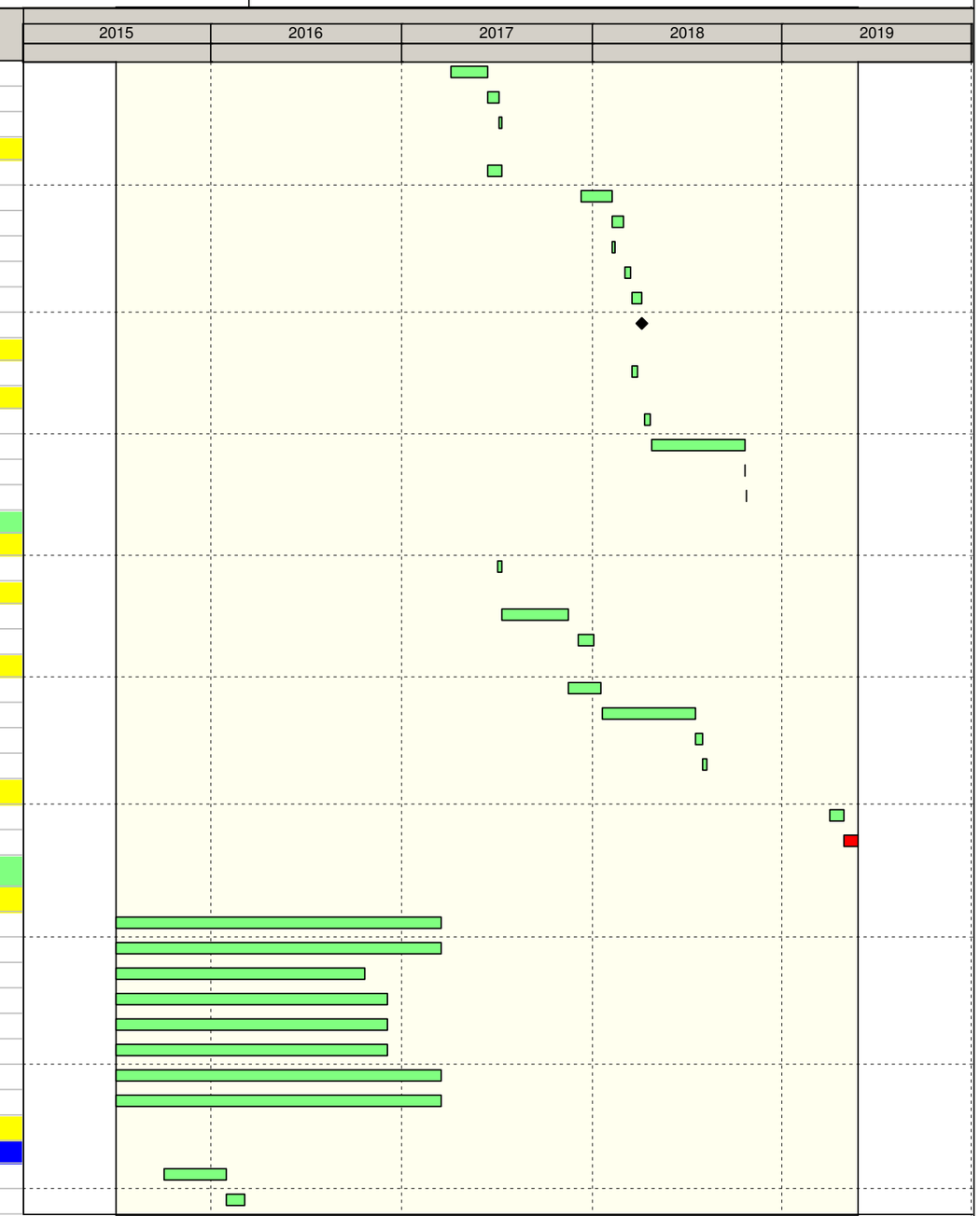
Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M2K15S-1050	Bridge K-8 (SR43 Overpass), F/R/P Col Bents	50	04/05/17	06/14/17
M2K15S-1080	Bridge K-8 (SR43 Overpass), Cure Concrete for Precast	21	06/15/17	07/05/17
M2K15S-1110	Bridge K-8 (SR43 Overpass), Place Precast Girders	5	07/06/17	07/12/17
Roadway		203	06/15/17	04/06/18
M2K15S-1160	Bridge K-8 (SR43 Overpass), Construct Access Road	20	06/15/17	07/13/17
M2K15S-1090	Bridge K-8 (SR43 Overpass), Build Embankments to Final Grade	40	12/12/17	02/08/18
M2K15S-1130	Bridge K-8 (SR43 Overpass), Deck & Road Pavements	15	02/09/18	03/02/18
M2K15S-1100	Bridge K-8 (SR43 Overpass), Hydroseed Embankments	5	02/09/18	02/15/18
M2K15S-1140	Bridge K-8 (SR43 Overpass), Landscape/Permanent BMPS/Fencing	10	03/05/18	03/16/18
M2K15S-1150	Bridge K-8 (SR43 Overpass), Shift traffic and remove detour	15	03/19/18	04/06/18
M2K15S-9000	Bridge K-8 (SR43 Overpass), Open for Traffic & Ready for Track work	0		04/06/18
RCBC & Irrigation Relocation		10	03/19/18	03/30/18
M2K15BC-100	K-2535+00 to K-2545+00, Culverts and Canal/Ditch Work	10	03/19/18	03/30/18
Track		141	04/11/18	10/24/18
M2K15TE-110	K-2535+00 to K-2545+00, HST Track Common Fill (FLOOD)	10	04/11/18	04/24/18
M2K15TE-120	K-2535+00 to K-2545+00, HST Track Common Fill, Surcharge Wait	180	04/25/18	10/21/18
M2K15TE-130	K-2535+00 to K-2545+00, HST Track Subgrade	2	10/22/18	10/23/18
M2K15TE-140	K-2535+00 to K-2545+00, HST Track AC	1	10/24/18	10/24/18
K4-2545+00 to K4-2599+00		288	07/05/17	08/10/18
Grubb and Demolition		5	07/05/17	07/11/17
M2K16C-1000	K-2545+00 to K-2599+00, Clear & Grubb	5	07/05/17	07/11/17
RCBC & Irrigation Relocation		120	07/12/17	01/03/18
M2K16BC-100	K-2545+00 to K-2599+00, CIP Culvert and Canal/Ditch Work	90	07/12/17	11/16/17
M2K16BC-110	K-2545+00 to K-2599+00, Precast Drainage Culverts	20	12/05/17	01/03/18
Track		191	11/17/17	08/10/18
M2K16TE-110	K-2545+00 to K-2599+00, HST Track Common Fill (FLOOD)	41	11/17/17	01/19/18
M2K16TE-120	K-2545+00 to K-2599+00, HST Track Common Fill, Surcharge Wait	180	01/20/18	07/18/18
M2K16TE-130	K-2545+00 to K-2599+00, HST Track Subgrade	11	07/19/18	08/02/18
M2K16TE-140	K-2545+00 to K-2599+00, HST Track AC	6	08/03/18	08/10/18
Punchlist		38	04/04/19	05/28/19
M2K4-PUNCH	Managment Segment 2 - Punchlist - Alignment K4	20	04/04/19	05/01/19
M2H-PUNCH	Managment Segment 2 - Punchlist - Alignment H	20	04/30/19	05/28/19
Management Segment 3 (2595+00 to 4395+40)		1011	07/01/15	05/15/19
Permits		625	07/01/15	03/16/17
M3-USACE1010	Managment Segment 1Permits-USACE 404	625	07/01/15	03/16/17
M3-CVFPB1000	Managment Segment 1Permits-CVFPB/ FEMA CLOMR	625	07/01/15	03/16/17
M3-IRRIG1000	Managment Segment 1Permits-Irrigation Districts	480	07/01/15	10/22/16
M3-UTIL1000	Managment Segment 1Permits-Utilities PG&E	523	07/01/15	12/04/16
M3-UTIL1010	Managment Segment 1Permits-Utilities SDG&E	523	07/01/15	12/04/16
M3-UTIL1020	Managment Segment 1Permits-Utilities SEMPRA	523	07/01/15	12/04/16
M3-SWRCB1000	Managment Segment 1Permits-SWRCB Section 402 - NPDES	625	07/01/15	03/16/17
M3-CDFW1000	Managment Segment 1Permits-CDFW Section 1602 Streambed Alteration Agre...	625	07/01/15	03/16/17
Geotech		153	10/01/15	05/11/16
GDR for Embankment		153	10/01/15	05/11/16
M3EMBGEO-100FI	Geotech, Segment 3, Embankment GDR, Field Investigations	80	10/01/15	01/28/16
M3EMBGEO-100DR	Geotech, Segment 3, Embankment GDR, P/S and R/A Draft Report	25	01/29/16	03/04/16



Remaining Level of Effort
Actual Work
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Milestone

California High-Speed Rail Program
Construction Package 2-3
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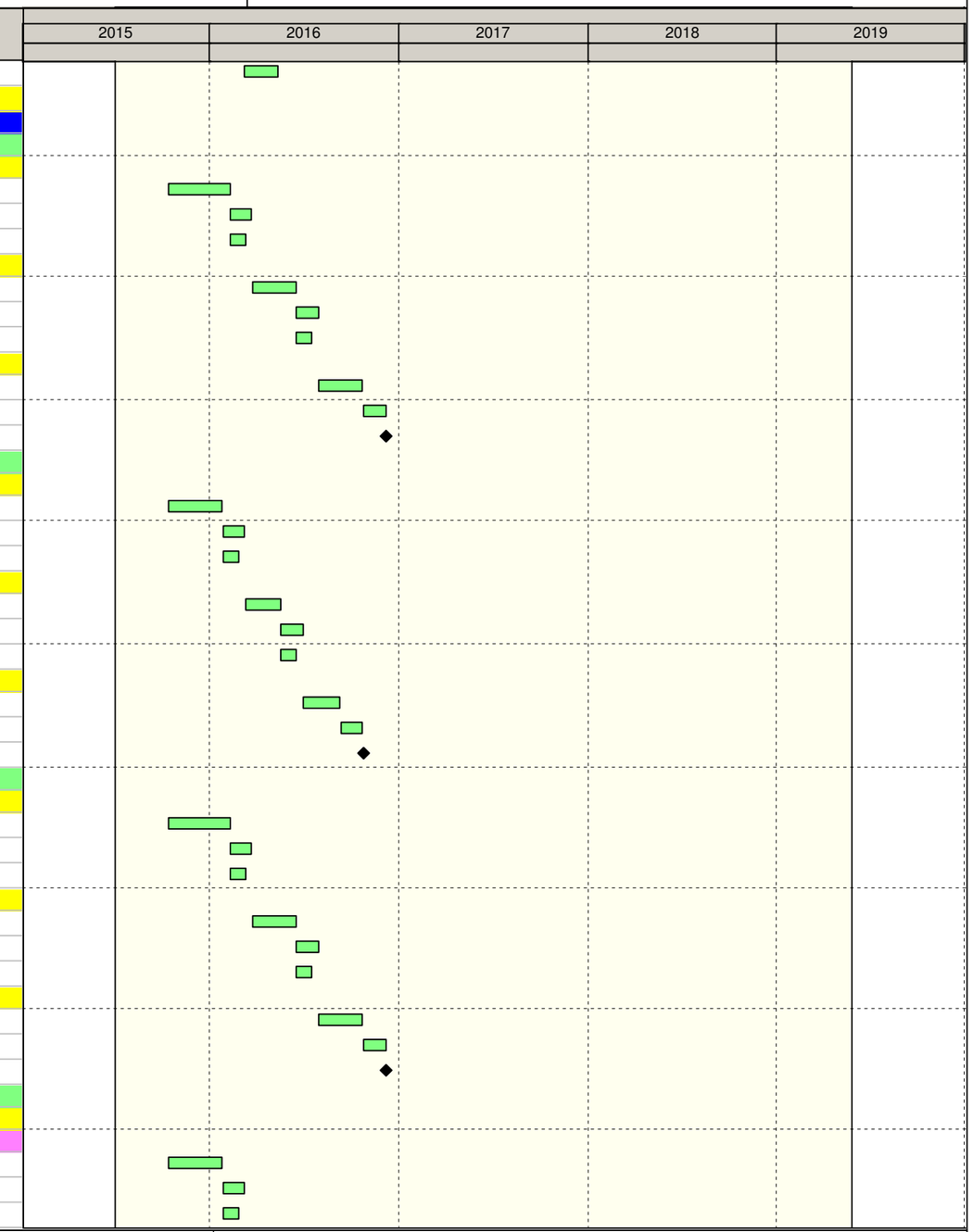
Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M3EMBGEO-100FR	Geotech, Segment 3, Embankment GDR, P/S and R/A Final Report	48	03/07/16	05/11/16
Design		562	07/01/15	08/24/17
Civil		376	10/13/15	03/21/17
Utilities		302	10/13/15	12/07/16
60% Design		116	10/13/15	03/22/16
M3UTD-060S	Utility Package, Segment 3, 60% Design, P/S	80	10/13/15	02/08/16
M3UTD-060R	Utility Package, Segment 3, 60% Design, Authority R/A	30	02/09/16	03/22/16
M3UTD-060AGN	Utility Package, Segment 3, 60 % Design, 3rd Party R/A	30	02/09/16	03/09/16
90% Design		92	03/23/16	07/28/16
M3UTD-090S	Utility Package, Segment 3, 90% Design, P/S	60	03/23/16	06/15/16
M3UTD-090R	Utility Package, Segment 3, 90% Design, Authority R/A	30	06/16/16	07/28/16
M3UTD-090AGN	Utility Package, Segment 3, 90 % Design, 3rd Party R/A	30	06/16/16	07/15/16
RFC		90	07/29/16	12/07/16
M3UTD-100S	Utility Package, Segment 3, RFC Design, P/S	60	07/29/16	10/21/16
M3UTD-100R	Utility Package, Segment 3, RFC Design, Authority R/A	30	10/24/16	12/07/16
M3UTD-100A	Utility Package, Segment 3, RFC Design, Approved	0		12/07/16
Irrigation Canals		269	10/13/15	10/24/16
60% Design		106	10/13/15	03/08/16
M3IRD-060S	Irrigation Package, Segment 3, 60% Design, P/S	70	10/13/15	01/25/16
M3IRD-060R	Irrigation Package, Segment 3, 60% Design, Authority R/A	30	01/26/16	03/08/16
M3IRD-060AGN	Irrigation Package, Segment 3, 60% Design, 3rd Party R/A	30	01/26/16	02/24/16
90% Design		81	03/09/16	06/29/16
M3IRD-090S	Irrigation Package, Segment 3, 90% Design, P/S	50	03/09/16	05/17/16
M3IRD-090R	Irrigation Package, Segment 3, 90% Design, Authority R/A	30	05/18/16	06/29/16
M3IRD-090AGN30	Irrigation Package, Segment 3, 90% Design, 3rd Party R/A	30	05/18/16	06/16/16
RFC		80	06/30/16	10/24/16
M3IRD-100S	Irrigation Package, Segment 3, RFC Design, P/S	50	06/30/16	09/09/16
M3IRD-100R	Irrigation Package, Segment 3, RFC Design, Authority R/A	30	09/12/16	10/21/16
M3IRD-100A	Irrigation Package, Segment 3, RFC Design, Approved	0		10/24/16
Caltrans Roadway		302	10/13/15	12/07/16
60% Design		116	10/13/15	03/22/16
M3CRWD-060S30	CALTRANS Roadway Package, Segment 3, 60% Design, P/S	80	10/13/15	02/08/16
M3CRWD-060R30	CALTRANS Roadway Package, Segment 3, 60% Design, Authority R/A	30	02/09/16	03/22/16
M3CRWD-060AGN30	CALTRANS Roadway Package, Segment 3, 60 % Design, 3rd Party R/A	30	02/09/16	03/09/16
90% Design		92	03/23/16	07/28/16
M3CRWD-090S30	CALTRANS Roadway Package, Segment 3, 90% Design, P/S	60	03/23/16	06/15/16
M3CRWD-090R30	CALTRANS Roadway Package, Segment 3, 90% Design, Authority R/A	30	06/16/16	07/28/16
M3CRWD-090AGN30	CALTRANS Roadway Package, Segment 3, 90 % Design, 3rd Party R/A	30	06/16/16	07/15/16
RFC		90	07/29/16	12/07/16
M3CRWD-100S30	CALTRANS Roadway Package, Segment 3, RFC Design, P/S	60	07/29/16	10/21/16
M3CRWD-100R30	CALTRANS Roadway Package, Segment 3, RFC Design, Authority R/A	30	10/24/16	12/07/16
M3CRWD-100A30	CALTRANS Roadway Package, Segment 3, RFC Design, Approved	0		12/07/16
Rail Embankment		376	10/13/15	03/21/17
Package 1		269	10/13/15	10/21/16
60% Design		106	10/13/15	03/08/16
M3RED1-060S	Rail Embankment Package 1, Segment 3, 60% Design, P/S	70	10/13/15	01/25/16
M3RED1-060R	Rail Embankment Package 1, Segment 3, 60% Design, Authority R/A	30	01/26/16	03/08/16
M3RED1-060AGN	Rail Embankment Package 1, Segment 3, 60% Design, 3rd Party R/A	30	01/26/16	02/24/16



Remaining Level of Effort
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Milestone

California High-Speed Rail Program
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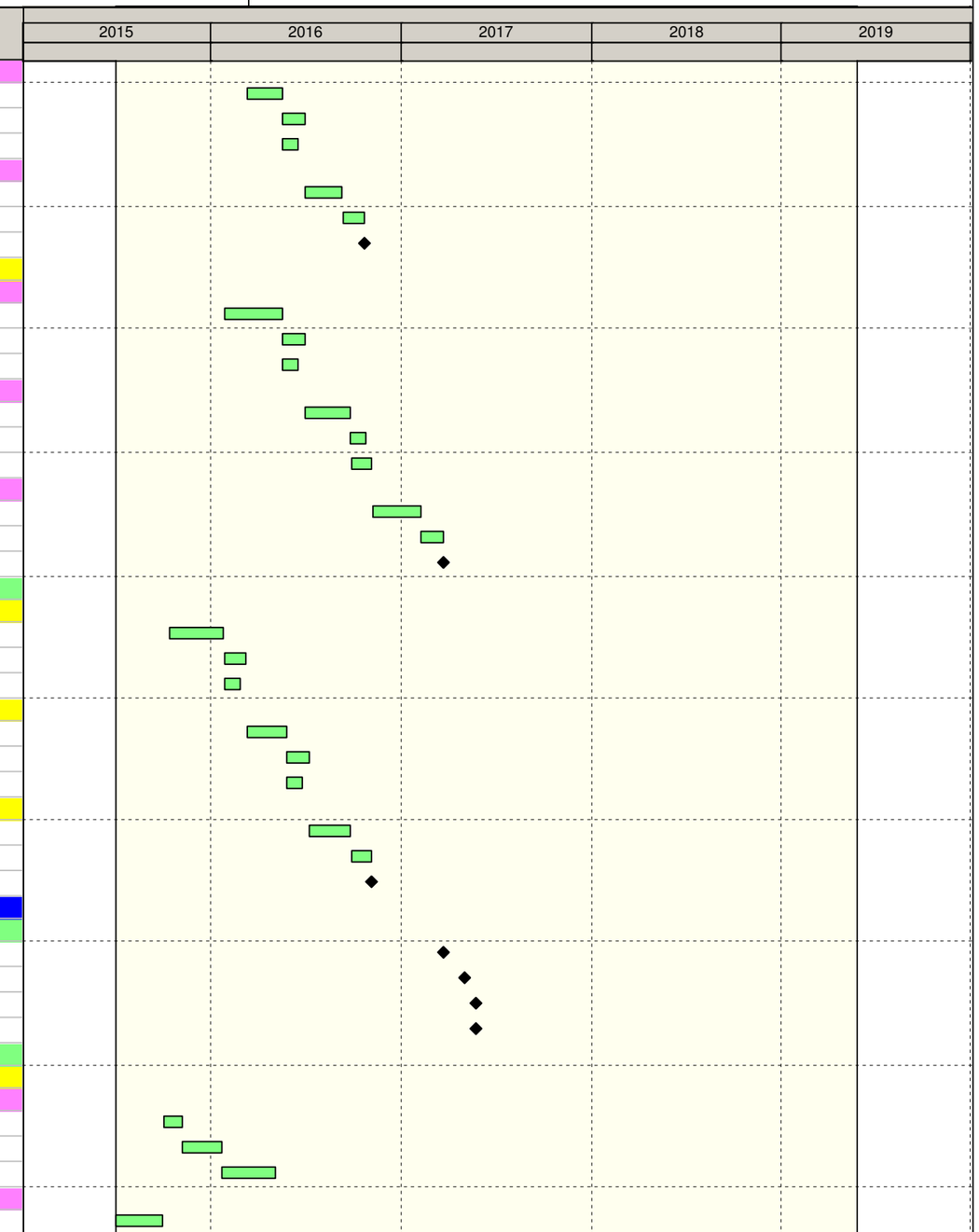
Activity ID	Activity Name	OD	Start	Finish
90% Design		81	03/09/16	06/29/16
M3RED1-090S	Rail Embankment Package 1, Segment 3, 90% Design, P/S	50	03/09/16	05/17/16
M3RED1-090R	Rail Embankment Package 1, Segment 3, 90% Design, Authority R/A	30	05/18/16	06/29/16
M3RED1-090AGN	Rail Embankment Package 1, Segment 3, 90% Design, 3rd Party R/A	30	05/18/16	06/16/16
RFC		80	06/30/16	10/21/16
M3RED1-100S	Rail Embankment Package 1, Segment 3, RFC Design, P/S	50	06/30/16	09/09/16
M3RED1-100R	Rail Embankment Package 1, Segment 3, RFC Design, Authority R/A	30	09/12/16	10/21/16
M3RED1-100A	Rail Embankment Package 1, Segment 3, RFC Design, Approved	0		10/21/16
Package 2		301	01/26/16	03/21/17
60% Design		112	01/26/16	06/29/16
M3RED2-060S	Rail Embankment Package 2, Segment 3, 60% Design, P/S	80	01/26/16	05/17/16
M3RED2-060R	Rail Embankment Package 2, Segment 3, 60% Design, Authority R/A	30	05/18/16	06/29/16
M3RED2-060AGN	Rail Embankment Package 2, Segment 3, 60% Design, 3rd Party R/A	30	05/18/16	06/16/16
90% Design		92	06/30/16	11/04/16
M3RED2-090S	Rail Embankment Package 2, Segment 3, 90% Design, P/S	60	06/30/16	09/23/16
M3RED2-090AGN	Rail Embankment Package 2, Segment 3, 90% Design, 3rd Party R/A	30	09/24/16	10/23/16
M3RED2-090R	Rail Embankment Package 2, Segment 3, 90% Design, Authority R/A	30	09/26/16	11/04/16
RFC		90	11/07/16	03/21/17
M3RED2-100S	Rail Embankment Package 2, Segment 3, RFC Design, P/S	60	11/07/16	02/06/17
M3RED2-100R	Rail Embankment Package 2, Segment 3, RFC Design, Authority R/A	30	02/07/17	03/21/17
M3RED2-100A	Rail Embankment Package 2, Segment 3, RFC Design, Approved	0		03/21/17
Local Roadway		279	10/13/15	11/04/16
60% Design		106	10/13/15	03/08/16
M3LRWD-060S	Local Roadway Package, Segment 3, 60% Design, P/S	70	10/13/15	01/25/16
M3LRWD-060R	Local Roadway Package, Segment 3, 60% Design, Authority R/A	30	01/26/16	03/08/16
M3LRWD-060AGN	Local Roadway Package, Segment 3, 60 % Design, 3rd Party R/A	30	01/26/16	02/24/16
90% Design		87	03/09/16	07/07/16
M3LRWD-090S	Local Roadway Package, Segment 3, 90% Design, P/S	55	03/09/16	05/24/16
M3LRWD-090R	Local Roadway Package, Segment 3, 90% Design, Authority R/A	30	05/25/16	07/07/16
M3LRWD-090AGN	Local Roadway Package, Segment 3, 90 % Design, 3rd Party R/A	30	05/25/16	06/23/16
RFC		85	07/08/16	11/04/16
M3LRWD-100S	Local Roadway Package, Segment 3, RFC Design, P/S	55	07/08/16	09/23/16
M3LRWD-100R	Local Roadway Package, Segment 3, RFC Design, Authority R/A	30	09/26/16	11/04/16
M3LRWD-100A	Local Roadway Package, Segment 3, RFC Design, Approved	0		11/04/16
Structures		562	07/01/15	08/24/17
Railroad & CPUC Submittal		45	03/21/17	05/23/17
M3P03D-030CPUCA	Hesse Ave, CPUC Approval	0		03/21/17
M3P08D-030CPUCA	Ave. 88 CPUC Approval	0		05/02/17
M3C15D-030CPUCA	Bridge C-4 (BNSF Straddle), CPUC Approval	0		05/23/17
M3A04D-030CPUCA	Stoil Spur A-3 (Truss) CPUC Approval	0		05/23/17
Grade Separation		494	07/01/15	05/22/17
Nevada Ave (2622+22)		408	07/01/15	01/20/17
Geotech		147	10/01/15	05/03/16
M3C02D-GEO060F	Nevada Ave. Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M3C02D-GEO060	Nevada Ave. Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M3C02D-GEO100	Nevada Ave. Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M3C02D-030S	Nevada Ave. Type Selection Report, P/S	62	07/01/15	09/28/15



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California High-Speed Rail Program
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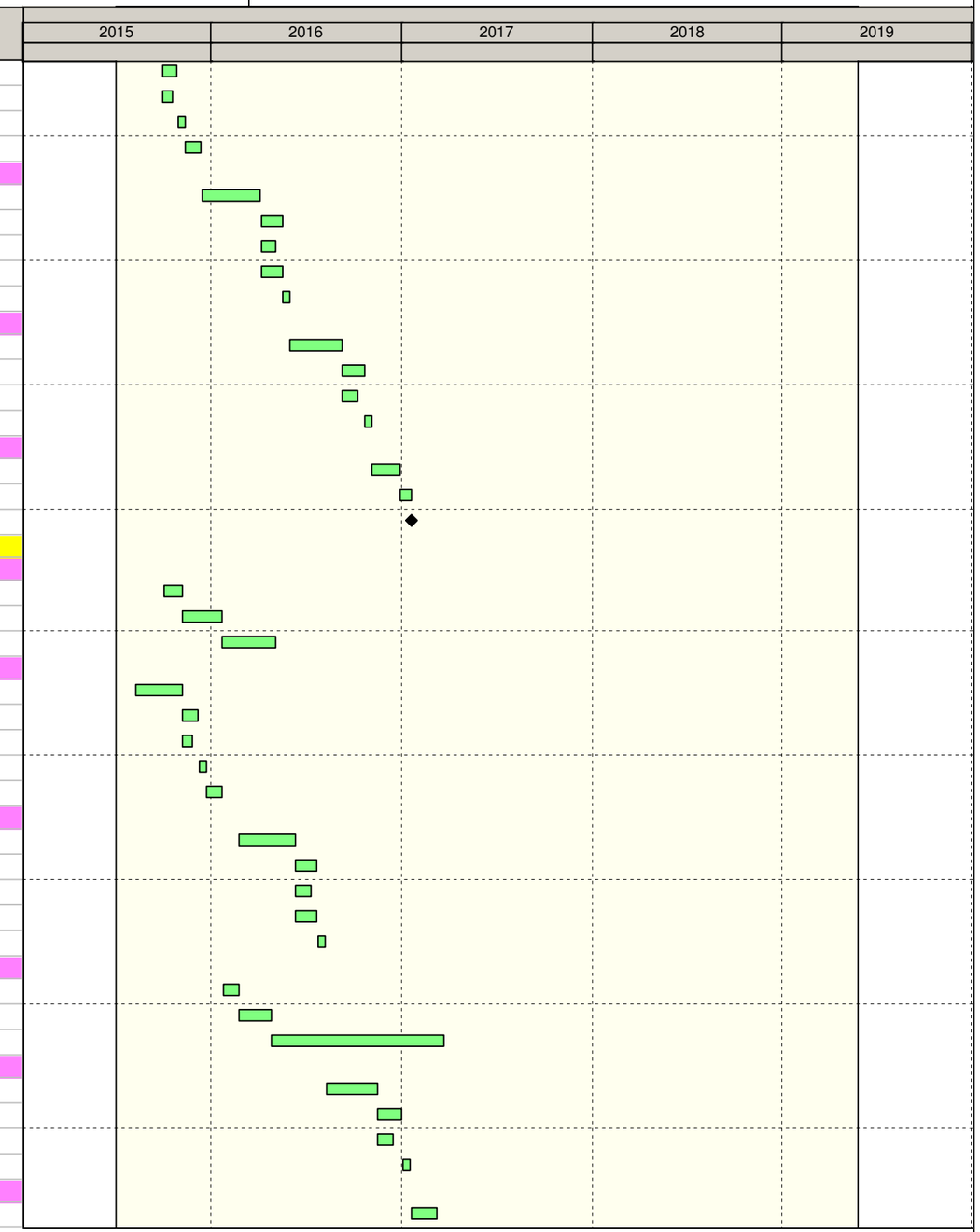
Activity ID	Activity Name	OD	Start	Finish
M3C02D-030R	Nevada Ave. Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M3C02D-030AGN	Nevada Ave. Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M3C02D-030CMN	Nevada Ave. Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M3C02D-030TYPE	Nevada Ave. Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		122	12/14/15	05/31/16
M3C02D-060S	Nevada Ave. 60% Bridge Design, P/S	77	12/14/15	04/04/16
M3C02D-060R	Nevada Ave. 60% Bridge Design, Authority R/A	30	04/05/16	05/16/16
M3C02D-060AGN	Nevada Ave. 60% Bridge Design, 3rd Party R/A	30	04/05/16	05/04/16
M3C02D-060IND	Nevada Ave. 60% Bridge Design, Independent Check	30	04/05/16	05/16/16
M3C02D-060CMNT	Nevada Ave. 60% Bridge Design, Comments Resolution	10	05/17/16	05/31/16
90% Design		112	06/01/16	11/03/16
M3C02D-090S	Nevada Ave. 90% Bridge Design, P/S	70	06/01/16	09/08/16
M3C02D-090R	Nevada Ave. 90% Bridge Design, Authority R/A	30	09/09/16	10/20/16
M3C02D-090AGN	Nevada Ave. 90% Bridge Design, 3rd Party R/A	30	09/09/16	10/08/16
M3C02D-090CMNT	Nevada Ave. 90% Bridge Design, Comments Resolution	10	10/21/16	11/03/16
RFC		50	11/04/16	01/20/17
M3C02D-100S	Nevada Ave. RFC Bridge Design-P/S	35	11/04/16	12/28/16
M3C02D-100R	Nevada Ave. RFC Bridge Design, Authority R/A	15	12/29/16	01/20/17
M3C02D-100A	Nevada Ave. RFC Bridge Design-Approved	0		01/20/17
Hesse Ave. (3171+98)		428	08/10/15	03/29/17
Geotech		147	10/01/15	05/03/16
M3P03D-GEO060F	Hesse Ave. Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M3P03D-GEO060	Hesse Ave. Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M3P03D-GEO100	Hesse Ave. Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		120	08/10/15	01/22/16
M3P03D-030S	Hesse Ave. Type Selection Report, P/S	62	08/10/15	11/05/15
M3P03D-030R	Hesse Ave. Type Selection Report, Authority R/A	20	11/06/15	12/07/15
M3P03D-030AGN	Hesse Ave. Type Selection Report, 3rd Party R/A	20	11/06/15	11/25/15
M3P03D-030CMN	Hesse Ave. Type Selection Report, Comments Resolution	10	12/08/15	12/21/15
M3P03D-030TYPE	Hesse Ave. Type Selection Report, Meeting and Approval	21	12/22/15	01/22/16
60% Design		119	02/23/16	08/05/16
M3P03D-060S	Hesse Ave. 60% Bridge Design, P/S	77	02/23/16	06/09/16
M3P03D-060R	Hesse Ave. 60% Bridge Design, Authority R/A	30	06/10/16	07/22/16
M3P03D-060AGN	Hesse Ave. 60% Bridge Design, 3rd Party R/A	30	06/10/16	07/09/16
M3P03D-060IND	Hesse Ave. 60% Bridge Design, Independent Check	30	06/10/16	07/22/16
M3P03D-060CMNT	Hesse Ave. 60% Bridge Design, Comments Resolution	10	07/25/16	08/05/16
BNSF Design Package		302	01/25/16	03/21/17
M3P03D-030BNSI	Hesse Ave, BNSF Design Package, P/S	20	01/25/16	02/22/16
M3P03D-030BNSI	Hesse Ave, BNSF Design Package, BNSF R/A	45	02/23/16	04/25/16
M3P03D-030CPUC	Hesse Ave, BNSF Design Package, CPUC R/A	330	04/26/16	03/21/17
90% Design		117	08/08/16	01/17/17
M3P03D-090S	Hesse Ave. 90% Bridge Design, P/S	70	08/08/16	11/15/16
M3P03D-090R	Hesse Ave. 90% Bridge Design, Authority R/A	30	11/16/16	12/30/16
M3P03D-090AGN	Hesse Ave. 90% Bridge Design, 3rd Party R/A	30	11/16/16	12/15/16
M3P03D-090CMNT	Hesse Ave. 90% Bridge Design, Comments Resolution	10	01/03/17	01/17/17
RFC		50	01/18/17	03/29/17
M3P03D-100S	Hesse Ave. RFC Bridge Design-P/S	35	01/18/17	03/08/17



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California High-Speed Rail Program
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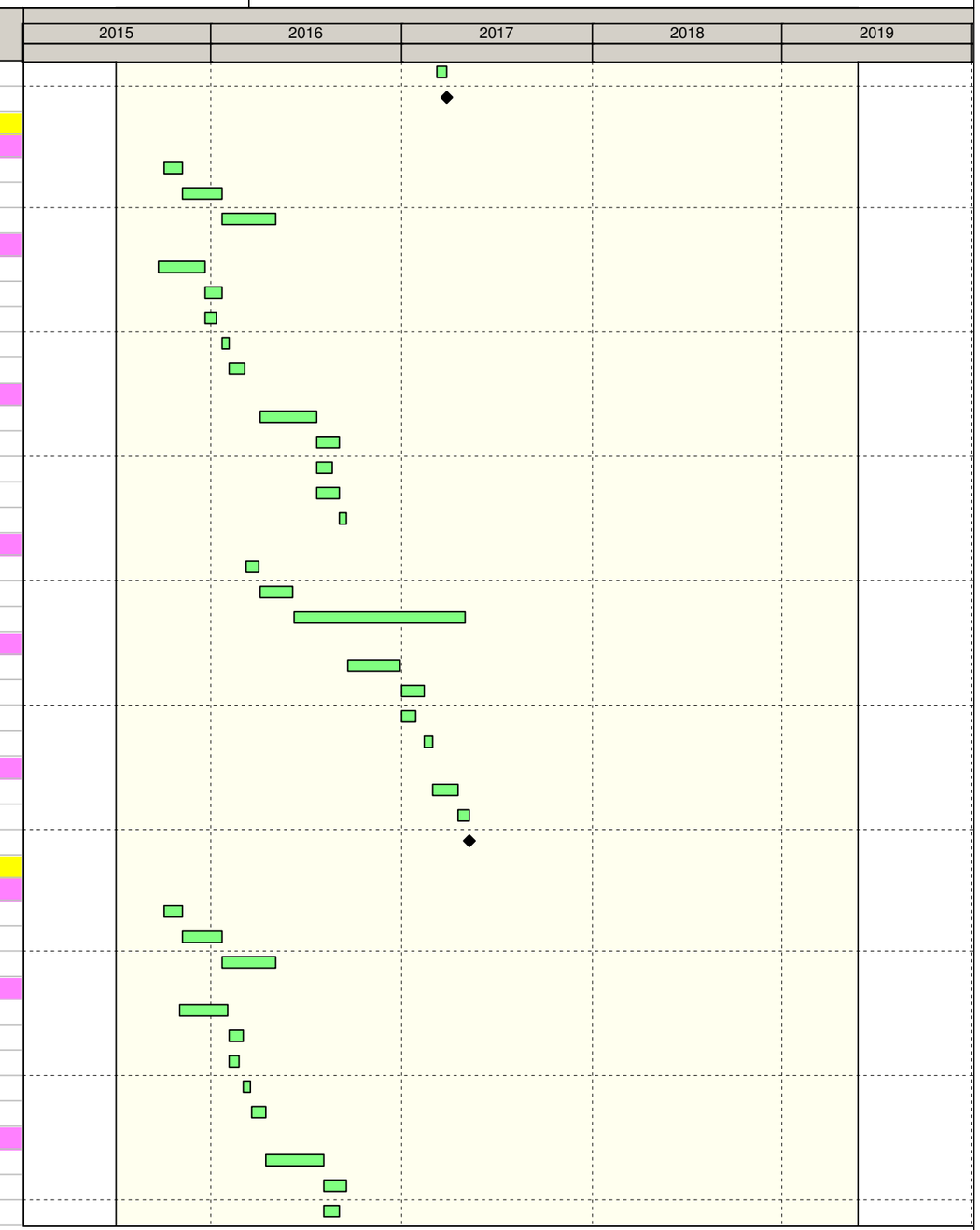
Activity ID	Activity Name	OD	Start	Finish
M3P03D-100R	Hesse Ave. RFC Bridge Design, Authority R/A	15	03/09/17	03/29/17
M3P03D-100A	Hesse Ave. RFC Bridge Design-Approved	0		03/29/17
Ave. 88 (3432+67)		427	09/21/15	05/09/17
Geotech		147	10/01/15	05/03/16
M3P08D-GEO060F	Ave. 88 Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M3P08D-GEO060	Ave. 88 Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M3P08D-GEO100	Ave. 88 Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		120	09/21/15	03/04/16
M3P08D-030S	Ave. 88 Type Selection Report, P/S	62	09/21/15	12/18/15
M3P08D-030R	Ave. 88 Type Selection Report, Authority R/A	20	12/21/15	01/20/16
M3P08D-030AGN	Ave. 88 Type Selection Report, 3rd Party R/A	20	12/21/15	01/09/16
M3P08D-030CMN	Ave. 88 Type Selection Report, Comments Resolution	10	01/21/16	02/03/16
M3P08D-030TYPE	Ave. 88 Type Selection Report, Meeting and Approval	21	02/04/16	03/04/16
60% Design		120	04/04/16	09/16/16
M3P08D-060S	Ave. 88 60% Bridge Design, P/S	77	04/04/16	07/21/16
M3P08D-060R	Ave. 88 60% Bridge Design, Authority R/A	30	07/22/16	09/01/16
M3P08D-060AGN	Ave. 88 60% Bridge Design, 3rd Party R/A	30	07/22/16	08/20/16
M3P08D-060IND	Ave. 88 60% Bridge Design, Independent Check	30	07/22/16	09/01/16
M3P08D-060CMNT	Ave. 88 60% Bridge Design, Comments Resolution	10	09/02/16	09/16/16
BNSF Design Package		302	03/07/16	05/02/17
M3P08D-030BNSI	Ave. 88 BNSF Design Package, P/S	20	03/07/16	04/01/16
M3P08D-030BNSI	Ave. 88 BNSF Design Package, BNSF R/A	45	04/04/16	06/06/16
M3P08D-030CPUC	Ave. 88 BNSF Design Package, CPUC R/A	330	06/07/16	05/02/17
90% Design		117	09/19/16	02/28/17
M3P08D-090S	Ave. 88 90% Bridge Design, P/S	70	09/19/16	12/29/16
M3P08D-090R	Ave. 88 90% Bridge Design, Authority R/A	30	12/30/16	02/13/17
M3P08D-090AGN	Ave. 88 90% Bridge Design, 3rd Party R/A	30	12/30/16	01/28/17
M3P08D-090CMNT	Ave. 88 90% Bridge Design, Comments Resolution	10	02/14/17	02/28/17
RFC		50	03/01/17	05/09/17
M3P08D-100S	Ave. 88 RFC Bridge Design-P/S	35	03/01/17	04/18/17
M3P08D-100R	Ave. 88 RFC Bridge Design, Authority R/A	15	04/19/17	05/09/17
M3P08D-100A	Ave. 88 RFC Bridge Design-Approved	0		05/09/17
J22 (4118+12)		428	10/01/15	05/22/17
Geotech		147	10/01/15	05/03/16
M3A06D-GEO060F	J22 Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M3A06D-GEO060	J22 Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M3A06D-GEO100	J22 Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		119	11/02/15	04/14/16
M3A06D-030S	J22 Type Selection Report, P/S	62	11/02/15	02/02/16
M3A06D-030R	J22 Type Selection Report, Authority R/A	20	02/03/16	03/02/16
M3A06D-030AGN	J22 Type Selection Report, 3rd Party R/A	20	02/03/16	02/22/16
M3A06D-030CMN	J22 Type Selection Report, Comments Resolution	10	03/03/16	03/16/16
M3A06D-030TYPE	J22 Type Selection Report, Meeting and Approval	21	03/17/16	04/14/16
60% Design		120	04/15/16	09/29/16
M3A06D-060S	J22 60% Bridge Design, P/S	77	04/15/16	08/03/16
M3A06D-060R	J22 60% Bridge Design, Authority R/A	30	08/04/16	09/15/16
M3A06D-060AGN	J22 60% Bridge Design, 3rd Party R/A	30	08/04/16	09/02/16

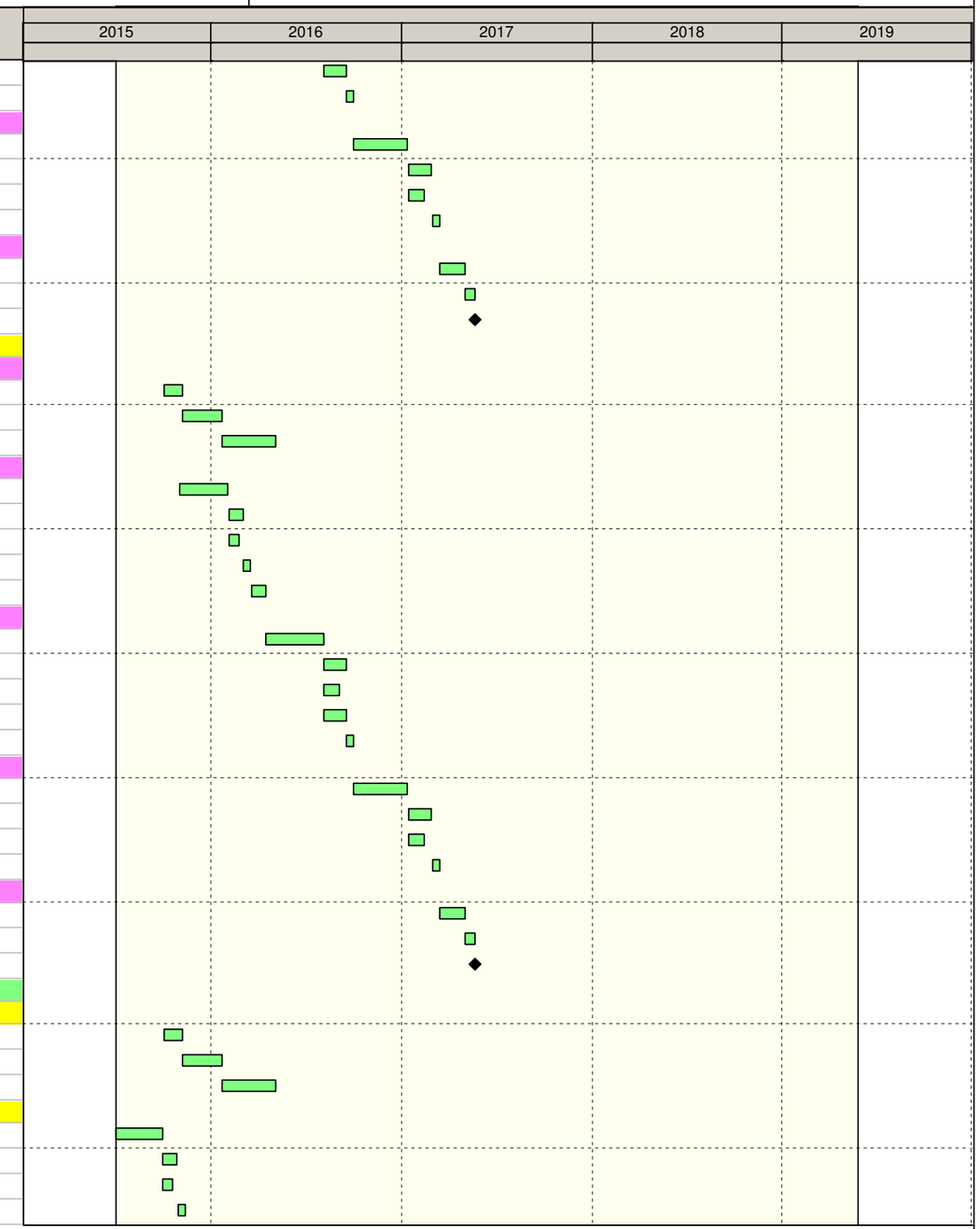


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M3A06D-060IND	J22 60% Bridge Design, Independent Check	30	08/04/16	09/15/16
M3A06D-060CMNT	J22 60% Bridge Design, Comments Resolution	10	09/16/16	09/29/16
90% Design		117	09/30/16	03/13/17
M3A06D-090S	J22 90% Bridge Design, P/S	70	09/30/16	01/12/17
M3A06D-090R	J22 90% Bridge Design, Authority R/A	30	01/13/17	02/27/17
M3A06D-090AGN	J22 90% Bridge Design, 3rd Party R/A	30	01/13/17	02/11/17
M3A06D-090CMNT	J22 90% Bridge Design, Comments Resolution	10	02/28/17	03/13/17
RFC		50	03/14/17	05/22/17
M3A06D-100S	J22 RFC Bridge Design-P/S	35	03/14/17	05/01/17
M3A06D-100R	J22 RFC Bridge Design, Authority R/A	15	05/02/17	05/22/17
M3A06D-100A	J22 RFC Bridge Design-Approved	0		05/22/17
Corcoran Hwy (2760+98)		428	10/01/15	05/22/17
Geotech		147	10/01/15	05/03/16
M3C06D-GEO060F	Corcoran Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M3C06D-GEO060	Corcoran Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M3C06D-GEO100	Corcoran Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		119	11/02/15	04/14/16
M3C06D-030S	Corcoran Type Selection Report, P/S	62	11/02/15	02/02/16
M3C06D-030R	Corcoran Type Selection Report, Authority R/A	20	02/03/16	03/02/16
M3C06D-030AGN	Corcoran Type Selection Report, 3rd Party R/A	20	02/03/16	02/22/16
M3C06D-030CMN	Corcoran Type Selection Report, Comments Resolution	10	03/03/16	03/16/16
M3C06D-030TYPE	Corcoran Type Selection Report, Meeting and Approval	21	03/17/16	04/14/16
60% Design		120	04/15/16	09/29/16
M3C06D-060S	Corcoran 60% Bridge Design, P/S	77	04/15/16	08/03/16
M3C06D-060R	Corcoran 60% Bridge Design, Authority R/A	30	08/04/16	09/15/16
M3C06D-060AGN	Corcoran 60% Bridge Design, 3rd Party R/A	30	08/04/16	09/02/16
M3C06D-060IND	Corcoran 60% Bridge Design, Independent Check	30	08/04/16	09/15/16
M3C06D-060CMNT	Corcoran 60% Bridge Design, Comments Resolution	10	09/16/16	09/29/16
90% Design		117	09/30/16	03/13/17
M3C06D-090S	Corcoran 90% Bridge Design, P/S	70	09/30/16	01/12/17
M3C06D-090R	Corcoran 90% Bridge Design, Authority R/A	30	01/13/17	02/27/17
M3C06D-090AGN	Corcoran 90% Bridge Design, 3rd Party R/A	30	01/13/17	02/11/17
M3C06D-090CMNT	Corcoran 90% Bridge Design, Comments Resolution	10	02/28/17	03/13/17
RFC		50	03/14/17	05/22/17
M3C06D-100S	Corcoran RFC Bridge Design-P/S	35	03/14/17	05/01/17
M3C06D-100R	Corcoran RFC Bridge Design, Authority R/A	15	05/02/17	05/22/17
M3C06D-100A	Corcoran RFC Bridge Design-Approved	0		05/22/17
Walls/Embankment/Drainage Structures		400	07/01/15	01/10/17
Report for 60% Submittal		147	10/01/15	05/03/16
M3WALGEO-100FI	Walls, Segment 3, Geotech, Field Investigations	25	10/01/15	11/05/15
M3WALGEO-100DR	Walls, Segment 3, Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M3WALGEO-100FR	Walls, Segment 3, Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M3WALD-030S	Walls, Segment 3, Type Selection Report, P/S	62	07/01/15	09/28/15
M3WALD-030R	Walls, Segment 3, Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M3WALD-030AGN	Walls, Segment 3, Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M3WALD-030CMNTS	Walls, Segment 3, Type Selection Report, Comments Resolution	10	10/28/15	11/10/15

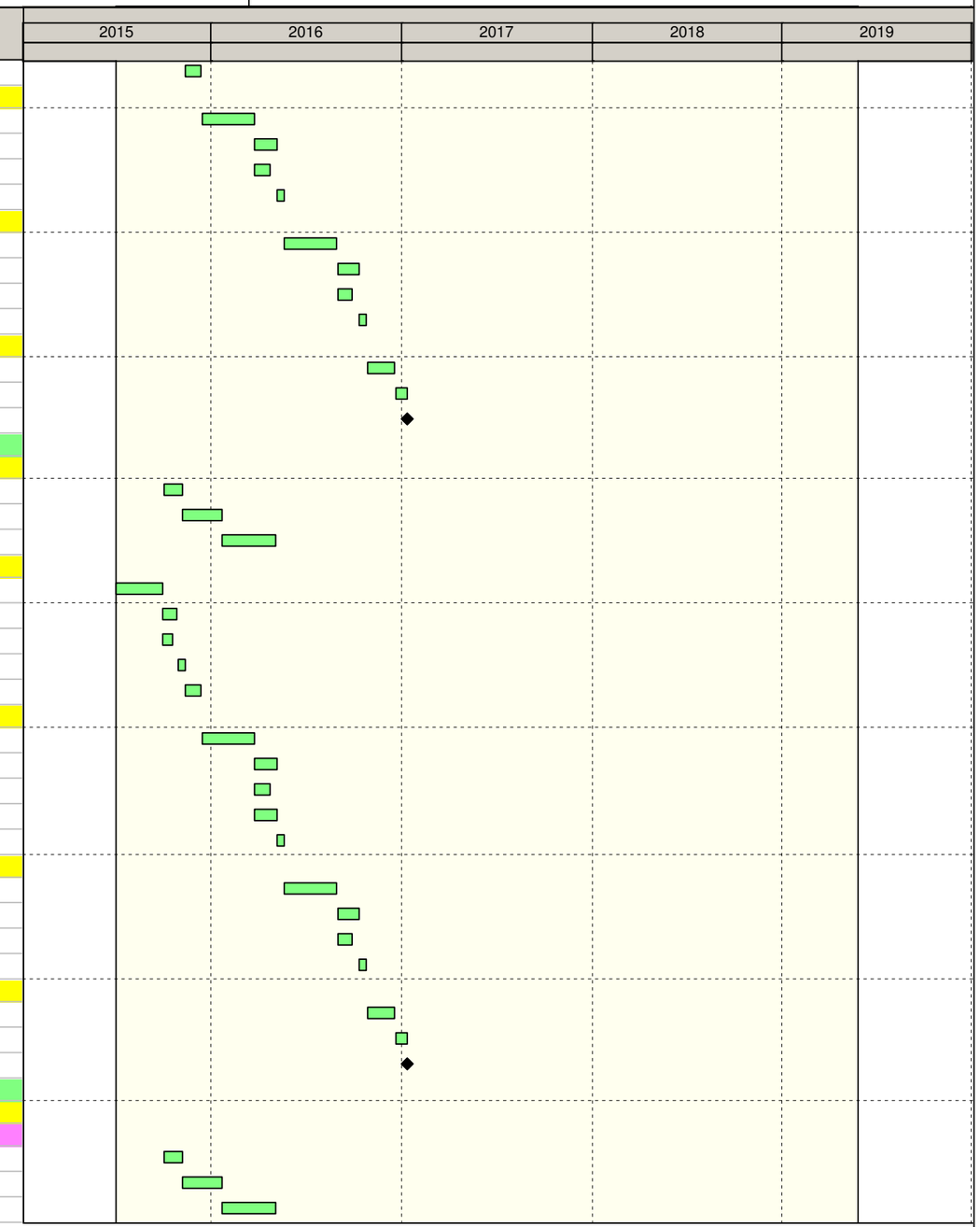


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M3WALD-030TYPE	Walls, Segment 3, Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		114	12/14/15	05/19/16
M3WALD-060S	Walls, Segment 3, 60% Design, P/S	70	12/14/15	03/24/16
M3WALD-060R	Walls, Segment 3, 60% Design, Authority R/A	30	03/25/16	05/05/16
M3WALD-060AGN	Walls, Segment 3, 60% Design, 3rd Party R/A	30	03/25/16	04/23/16
M3WALD-060CMNT	Walls, Segment 3, 60% Design, Comments Resolution	10	05/06/16	05/19/16
90% Design		113	05/20/16	10/25/16
M3WALD-090S	Walls, Segment 3, 90% Design, P/S	70	05/20/16	08/29/16
M3WALD-090R	Walls, Segment 3, 90% Design, Authority R/A	30	08/30/16	10/11/16
M3WALD-090AGN	Walls, Segment 3, 90% Design, 3rd Party R/A	30	08/30/16	09/28/16
M3WALD-090CMNT	Walls, Segment 3, 90% Design, Comments Resolution	10	10/12/16	10/25/16
RFC		50	10/26/16	01/10/17
M3WALD-100S	Walls, Segment 3, RFC Design, P/S	35	10/26/16	12/16/16
M3WALD-100R	Walls, Segment 3, RFC Design, Authority R/A	15	12/19/16	01/10/17
M3WALD-100A	Walls, Segment 3, RFC Design, Approved	0		01/10/17
Special Structures		400	07/01/15	01/10/17
Geotech		147	10/01/15	05/03/16
M3SPCLD-GEO060F	Special Structures, Segment 3, Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M3SPCLD-GEO060D	Special Structures, Segment 3, Geotech, P/S DFR	50	11/06/15	01/21/16
M3SPCLD-GEO100F	Special Structures, Segment 3, Geotech, P/St FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M3SPCLD-030S	Special Structures, Segment 3, Type Selection Report, P/S	62	07/01/15	09/28/15
M3SPCLD-030R	Special Structures, Segment 3, Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M3SPCLD-030AGN	Special Structures, Segment 3, Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M3SPCLD-030CMNT	Special Structures, Segment 3, Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M3SPCLD-030TYPE	Special Structures, Segment 3, Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		114	12/14/15	05/19/16
M3SPCLD-060S	Special Structures, Segment 3, 60% Design, P/S	70	12/14/15	03/24/16
M3SPCLD-060R	Special Structures, Segment 3, 60% Design, Authority R/A	30	03/25/16	05/05/16
M3SPCLD-060AGN	Special Structures, Segment 3, 60% Design, 3rd Party R/A	30	03/25/16	04/23/16
M3SPCLD-060IND	Special Structures, Segment 3, 60% Design, Independent Check	30	03/25/16	05/05/16
M3SPCLD-060CMNT	Special Structures, Segment 3, 60% Design, Comments Resolution	10	05/06/16	05/19/16
90% Design		113	05/20/16	10/25/16
M3SPCLD-090S	Special Structures, Segment 3, 90% Design, P/S	70	05/20/16	08/29/16
M3SPCLD-090R	Special Structures, Segment 3, 90% Design, Authority R/A	30	08/30/16	10/11/16
M3SPCLD-090AGN	Special Structures, Segment 3, 90% Design, 3rd Party R/A	30	08/30/16	09/28/16
M3SPCLD-090CMNT	Special Structures, Segment 3, 90% Design, Comments Resolution	10	10/12/16	10/25/16
RFC		50	10/26/16	01/10/17
M3SPCLD-100S	Special Structures, Segment 3, RFC Design, P/S	35	10/26/16	12/16/16
M3SPCLD-100R	Special Structures, Segment 3, RFC Design, Authority R/A	15	12/19/16	01/10/17
M3SPCLD-100A	Special Structures, Segment w, RFC Design, Approved	0		01/10/17
Concrete HST Bridge		562	07/01/15	08/24/17
Poplar C-2 (2996+00 to 2999+00)		428	07/01/15	02/17/17
Geotech		147	10/01/15	05/03/16
M3C12D-GEO060F	Bridge C-2b (Poplar) Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M3C12D-GEO060	Bridge C-2b (Poplar) Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M3C12D-GEO100	Bridge C-2b (Poplar) Geotech, P/S and R/A FFR	72	01/22/16	05/03/16

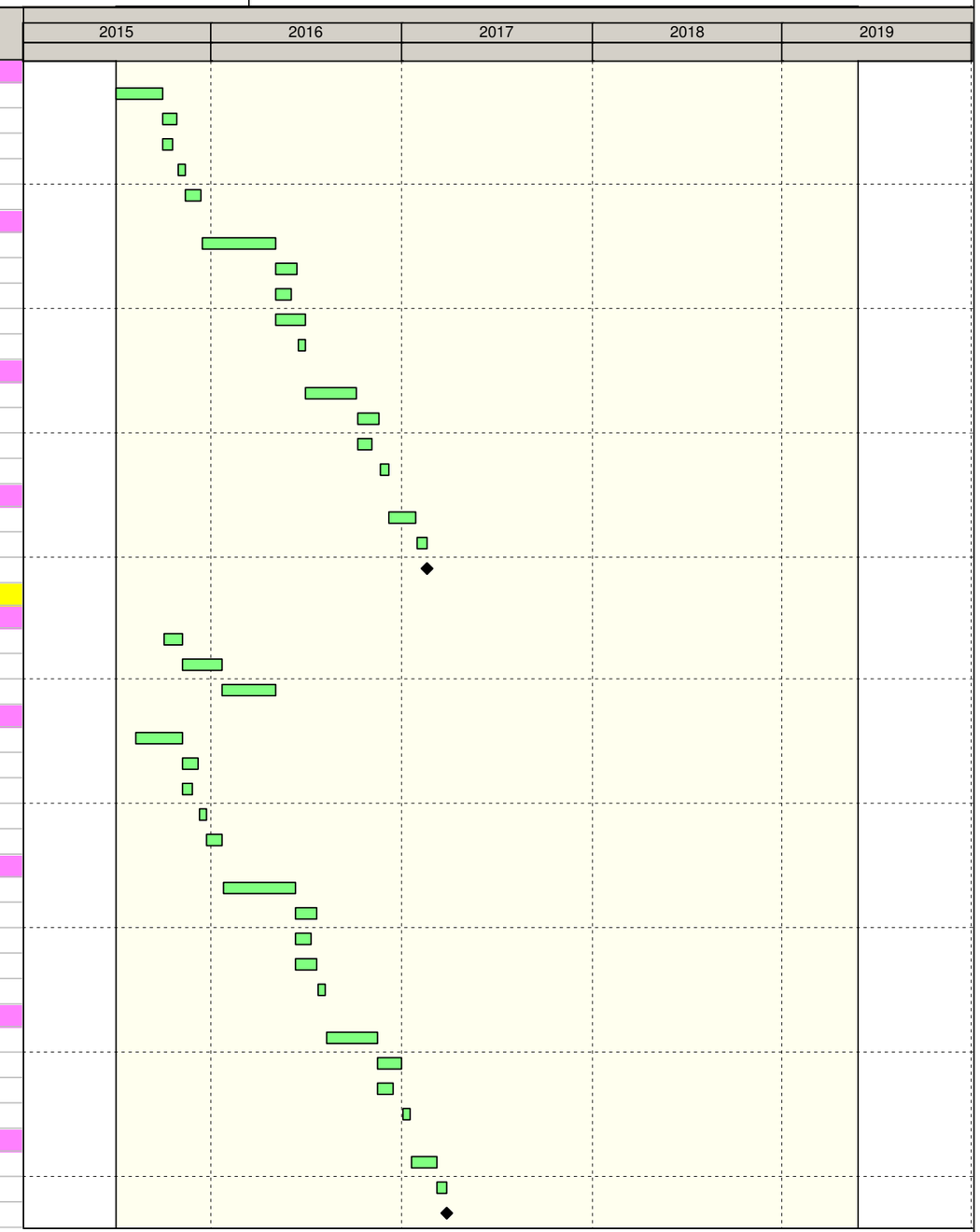


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
Type Selection		118	07/01/15	12/11/15
M3C12D-030S	Bridge C-2b (Poplar) Type Selection Report, P/S	62	07/01/15	09/28/15
M3C12D-030R	Bridge C-2b (Poplar) Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M3C12D-030AGN	Bridge C-2b (Poplar) Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M3C12D-030CMN	Bridge C-2b (Poplar) Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M3C12D-030TYPE	Bridge C-2b (Poplar) Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		142	12/14/15	06/28/16
M3C12D-060S	Bridge C-2b (Poplar) 60% Bridge Design, P/S	97	12/14/15	05/02/16
M3C12D-060R	Bridge C-2b (Poplar) 60% Bridge Design, Authority R/A	30	05/03/16	06/14/16
M3C12D-060AGN	Bridge C-2b (Poplar) 60% Bridge Design, 3rd Party R/A	30	05/03/16	06/01/16
M3C12D-060IND	Bridge C-2b (Poplar) 60% Bridge Design, Independent Check	40	05/03/16	06/28/16
M3C12D-060CMNT	Bridge C-2b (Poplar) 60% Bridge Design, Comments Resolution	10	06/15/16	06/28/16
90% Design		115	06/29/16	12/06/16
M3C12D-090S	Bridge C-2b (Poplar) 90% Bridge Design, P/S	70	06/29/16	10/06/16
M3C12D-090R	Bridge C-2b (Poplar) 90% Bridge Design, Authority R/A	30	10/07/16	11/18/16
M3C12D-090AGN	Bridge C-2b (Poplar) 90% Bridge Design, 3rd Party R/A	30	10/07/16	11/05/16
M3C12D-090CMNT	Bridge C-2b (Poplar) 90% Bridge Design, Comments Resolution	10	11/21/16	12/06/16
RFC		50	12/07/16	02/17/17
M3C12D-100S	Bridge C-2b (Poplar) RFC Bridge Design-P/S	35	12/07/16	01/27/17
M3C12D-100R	Bridge C-2b (Poplar) RFC Bridge Design, Authority R/A	15	01/30/17	02/17/17
M3C126D-100A	Bridge C-2b (Poplar) RFC Bridge Design-Approved	0		02/17/17
SR-43 C-3 (3002+00 to 3011+00)		428	08/10/15	03/29/17
Geotech		147	10/01/15	05/03/16
M3C14D-GEO060F	Bridge C-3b (SR-43) Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M3C14D-GEO060	Bridge C-3b (SR-43) Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M3C14D-GEO100	Bridge C-3b (SR-43) Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		120	08/10/15	01/22/16
M3C14D-030S	Bridge C-3b (SR-43) Type Selection Report, P/S	62	08/10/15	11/05/15
M3C14D-030R	Bridge C-3b (SR-43) Type Selection Report, Authority R/A	20	11/06/15	12/07/15
M3C14D-030AGN	Bridge C-3b (SR-43) Type Selection Report, 3rd Party R/A	20	11/06/15	11/25/15
M3C14D-030CMN	Bridge C-3b (SR-43) Type Selection Report, Comments Resolution	10	12/08/15	12/21/15
M3C14D-030TYPE	Bridge C-3b (SR-43) Type Selection Report, Meeting and Approval	21	12/22/15	01/22/16
60% Design		140	01/25/16	08/05/16
M3C14D-060S	Bridge C-3b (SR-43) 60% Bridge Design, P/S	97	01/25/16	06/09/16
M3C14D-060R	Bridge C-3b (SR-43) 60% Bridge Design, Authority R/A	30	06/10/16	07/22/16
M3C14D-060AGN	Bridge C-3b (SR-43) 60% Bridge Design, 3rd Party R/A	30	06/10/16	07/09/16
M3C14D-060IND	Bridge C-3b (SR-43) 60% Bridge Design, Independent Check	30	06/10/16	07/22/16
M3C14D-060CMNT	Bridge C-3b (SR-43) 60% Bridge Design, Comments Resolution	10	07/25/16	08/05/16
90% Design		117	08/08/16	01/17/17
M3C14D-090S	Bridge C-3b (SR-43) 90% Bridge Design, P/S	70	08/08/16	11/15/16
M3C14D-090R	Bridge C-3b (SR-43) 90% Bridge Design, Authority R/A	30	11/16/16	12/30/16
M3C14D-090AGN	Bridge C-3b (SR-43) 90% Bridge Design, 3rd Party R/A	30	11/16/16	12/15/16
M3C14D-090CMNT	Bridge C-3b (SR-43) 90% Bridge Design, Comments Resolution	10	01/03/17	01/17/17
RFC		50	01/18/17	03/29/17
M3C14D-100S	Bridge C-3b (SR-43) RFC Bridge Design-P/S	35	01/18/17	03/08/17
M3C14D-100R	Bridge C-3b (SR-43) RFC Bridge Design, Authority R/A	15	03/09/17	03/29/17
M3C146D-100A	Bridge C-3b (SR-43) RFC Bridge Design-Approved	0		03/29/17

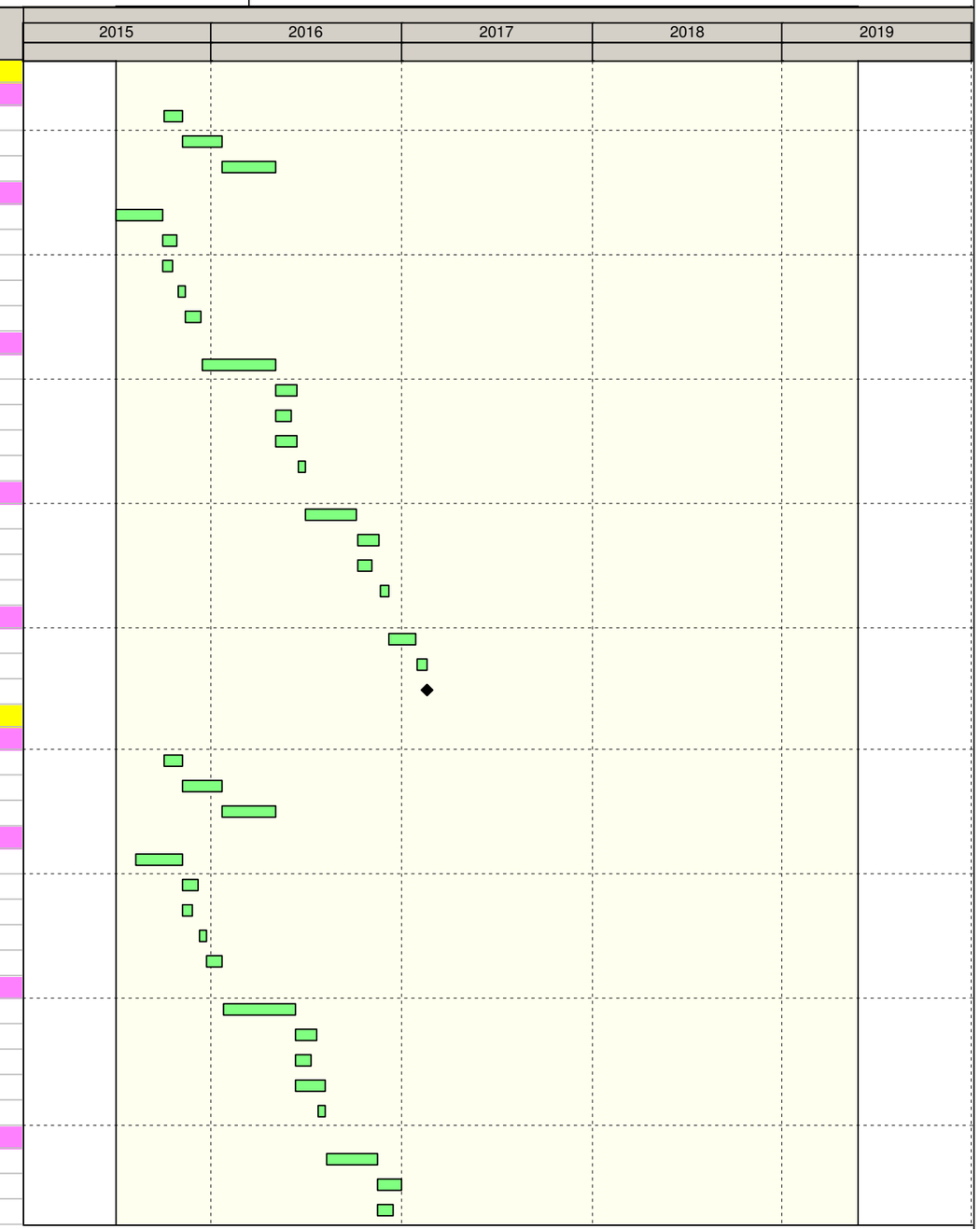


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
Stoil Spur (4030+45 to 4044+85)		428	07/01/15	02/17/17
Geotech		147	10/01/15	05/03/16
M3A03D-GEO060F	Bridge A-2 (Stoil Spur Box Girder) Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M3A03D-GEO060	Bridge A-2 (Stoil Spur Box Girder) Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M3A03D-GEO100	Bridge A-2 (Stoil Spur Box Girder) Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M3A03D-030S	Bridge A-2 (Stoil Spur Box Girder) Type Selection Report, P/S	62	07/01/15	09/28/15
M3A03D-030R	Bridge A-2 (Stoil Spur Box Girder) Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M3A03D-030AGN	Bridge A-2 (Stoil Spur Box Girder) Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M3A03D-030CMN	Bridge A-2 (Stoil Spur Box Girder) Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M3A03D-030TYPE	Bridge A-2 (Stoil Spur Box Girder) Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		142	12/14/15	06/28/16
M3A03D-060S	Bridge A-2 (Stoil Spur Box Girder) 60% Bridge Design, P/S	97	12/14/15	05/02/16
M3A03D-060R	Bridge A-2 (Stoil Spur Box Girder) 60% Bridge Design, Authority R/A	30	05/03/16	06/14/16
M3A03D-060AGN	Bridge A-2 (Stoil Spur Box Girder) 60% Bridge Design, 3rd Party R/A	30	05/03/16	06/01/16
M3A03D-060IND	Bridge A-2 (Stoil Spur Box Girder) 60% Bridge Design, Independent Check	30	05/03/16	06/14/16
M3A03D-060CMNT	Bridge A-2 (Stoil Spur Box Girder) 60% Bridge Design, Comments Resolution	10	06/15/16	06/28/16
90% Design		115	06/29/16	12/06/16
M3A03D-090S	Bridge A-2 (Stoil Spur Box Girder) 90% Bridge Design, P/S	70	06/29/16	10/06/16
M3A03D-090R	Bridge A-2 (Stoil Spur Box Girder) 90% Bridge Design, Authority R/A	30	10/07/16	11/18/16
M3A03D-090AGN	Bridge A-2 (Stoil Spur Box Girder) 90% Bridge Design, 3rd Party R/A	30	10/07/16	11/05/16
M3A03D-090CMNT	Bridge A-2 (Stoil Spur Box Girder) 90% Bridge Design, Comments Resolution	10	11/21/16	12/06/16
RFC		50	12/07/16	02/17/17
M3A03D-100S	Bridge A-2 (Stoil Spur Box Girder) RFC Bridge Design-P/S	35	12/07/16	01/27/17
M3A03D-100R	Bridge A-2 (Stoil Spur Box Girder) RFC Bridge Design, Authority R/A	15	01/30/17	02/17/17
M3A03D-100A	Bridge A-2 (Stoil Spur Box Girder) RFC Bridge Design-Approved	0		02/17/17
Tule (C5) (3029+00 to 3032+00)		428	08/10/15	03/29/17
Geotech		147	10/01/15	05/03/16
M3C16D-GEO060F	Bridge C-5 (Tule) Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M3C16D-GEO060	Bridge C-5 (Tule) Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M3C16D-GEO100	Bridge C-5 (Tule) Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		120	08/10/15	01/22/16
M3C16D-030S	Bridge C-5 (Tule) Type Selection Report, P/S	62	08/10/15	11/05/15
M3C16D-030R	Bridge C-5 (Tule) Type Selection Report, Authority R/A	20	11/06/15	12/07/15
M3C16D-030AGN	Bridge C-5 (Tule) Type Selection Report, 3rd Party R/A	20	11/06/15	11/25/15
M3C16D-030CMN	Bridge C-5 (Tule) Type Selection Report, Comments Resolution	10	12/08/15	12/21/15
M3C16D-030TYPE	Bridge C-5 (Tule) Type Selection Report, Meeting and Approval	21	12/22/15	01/22/16
60% Design		140	01/25/16	08/05/16
M3C16D-060S	Bridge C-5 (Tule) 60% Bridge Design, P/S	97	01/25/16	06/09/16
M3C16D-060R	Bridge C-5 (Tule) 60% Bridge Design, Authority R/A	30	06/10/16	07/22/16
M3C16D-060AGN	Bridge C-5 (Tule) 60% Bridge Design, 3rd Party R/A	30	06/10/16	07/09/16
M3C16D-060IND	Bridge C-5 (Tule) 60% Bridge Design, Independent Check	40	06/10/16	08/05/16
M3C16D-060CMNT	Bridge C-5 (Tule) 60% Bridge Design, Comments Resolution	10	07/25/16	08/05/16
90% Design		117	08/08/16	01/17/17
M3C16D-090S	Bridge C-5 (Tule) 90% Bridge Design, P/S	70	08/08/16	11/15/16
M3C16D-090R	Bridge C-5 (Tule) 90% Bridge Design, Authority R/A	30	11/16/16	12/30/16
M3C16D-090AGN	Bridge C-5 (Tule) 90% Bridge Design, 3rd Party R/A	30	11/16/16	12/15/16

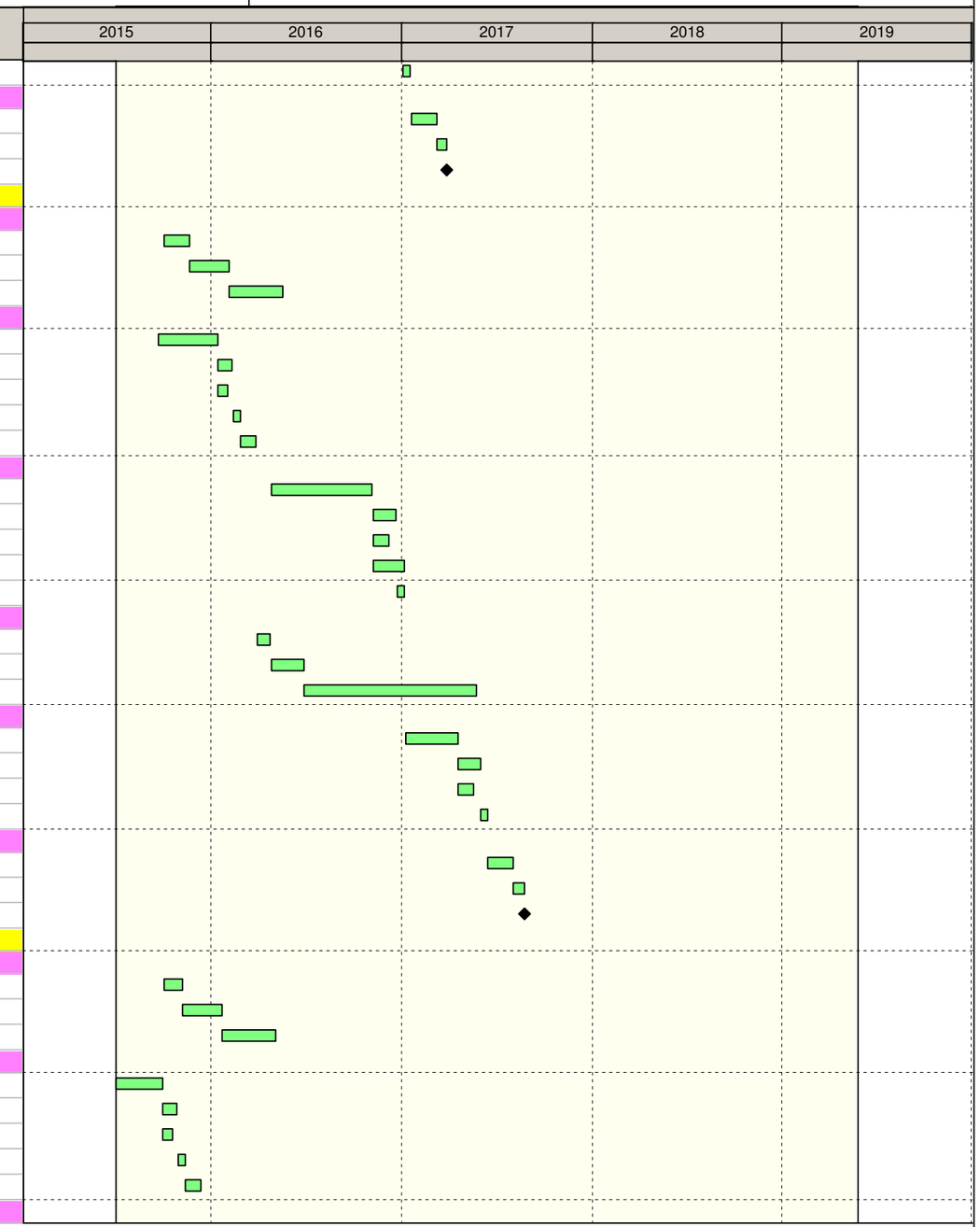


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M3C16D-090CMNT	Bridge C-5 (Tule) 90% Bridge Design, Comments Resolution	10	01/03/17	01/17/17
RFC		50	01/18/17	03/29/17
M3C16D-100S	Bridge C-5 (Tule) RFC Bridge Design-P/S	35	01/18/17	03/08/17
M3C16D-100R	Bridge C-5 (Tule) RFC Bridge Design, Authority R/A	15	03/09/17	03/29/17
M3C16D-100A	Bridge C-5 (Tule) RFC Bridge Design-Approved	0		03/29/17
Stoil Spurr Truss		504	09/21/15	08/24/17
Geotech		157	10/01/15	05/17/16
M3A04D-GEO060F	Stoil Spur A-3 (Truss) Geotech, Field Testing & Lab work	35	10/01/15	11/19/15
M3A04D-GEO060	Stoil Spur A-3 (Truss) Geotech, P/S and R/A DFR	50	11/20/15	02/04/16
M3A04D-GEO100	Stoil Spur A-3 (Truss) Geotech, P/S and R/A FFR	72	02/05/16	05/17/16
Type Selection		135	09/21/15	03/25/16
M3A04D-030S	Stoil Spur A-3 (Truss) Type Selection Report, P/S	77	09/21/15	01/12/16
M3A04D-030R	Stoil Spur A-3 (Truss) Type Selection Report, Authority R/A	20	01/13/16	02/10/16
M3A04D-030AGN	Stoil Spur A-3 (Truss) Type Selection Report, 3rd Party R/A	20	01/13/16	02/01/16
M3A04D-030CMN	Stoil Spur A-3 (Truss) Type Selection Report, Comments Resolution	10	02/11/16	02/25/16
M3A04D-030TYPE	Stoil Spur A-3 (Truss) Type Selection Report, Meeting and Approval	21	02/26/16	03/25/16
60% Design		185	04/25/16	01/06/17
M3A04D-060S	Stoil Spur A-3 (Truss) 60% Bridge Design, P/S	137	04/25/16	11/04/16
M3A04D-060R	Stoil Spur A-3 (Truss) 60% Bridge Design, Authority R/A	30	11/07/16	12/21/16
M3A04D-060AGN	Stoil Spur A-3 (Truss) 60% Bridge Design, 3rd Party R/A	30	11/07/16	12/06/16
M3A04D-060IND	Stoil Spur A-3 (Truss) 60% Bridge Design, Independent Check	40	11/07/16	01/06/17
M3A04D-060CMNT	Stoil Spur A-3 (Truss) 60% Bridge Design, Comments Resolution	10	12/22/16	01/06/17
BNSF Design Package		302	03/28/16	05/23/17
M3A04D-030BNSI	Stoil Spur A-3 (Truss) BNSF Design Package, P/S	20	03/28/16	04/22/16
M3A04D-030BNSI	Stoil Spur A-3 (Truss) BNSF Design Package, BNSF R/A	45	04/25/16	06/27/16
M3A04D-030CPUC	Stoil Spur A-3 (Truss) BNSF Design Package, CPUC R/A	330	06/28/16	05/23/17
90% Design		113	01/09/17	06/14/17
M3A04D-090S	Stoil Spur A-3 (Truss) 90% Bridge Design, P/S	70	01/09/17	04/18/17
M3A04D-090R	Stoil Spur A-3 (Truss) 90% Bridge Design, Authority R/A	30	04/19/17	05/31/17
M3A04D-090AGN	Stoil Spur A-3 (Truss) 90% Bridge Design, 3rd Party R/A	30	04/19/17	05/18/17
M3A04D-090CMNT	Stoil Spur A-3 (Truss) 90% Bridge Design, Comments Resolution	10	06/01/17	06/14/17
RFC		50	06/15/17	08/24/17
M3A04D-100S	Stoil Spur A-3 (Truss) RFC Bridge Design-P/S	35	06/15/17	08/03/17
M3A04D-100R	Stoil Spur A-3 (Truss) RFC Bridge Design, Authority R/A	15	08/04/17	08/24/17
M3A04D-100A	Stoil Spur A-3 (Truss) RFC Bridge Design-Approved	0		08/24/17
Deer Creek Viaduct A-1 (4006+00 to 4007+00)		428	07/01/15	02/17/17
Geotech		147	10/01/15	05/03/16
M3A02D-GEO060F	Bridge A-1 (Deer Creek Box) Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M3A02D-GEO060	Bridge A-1 (Deer Creek Box) Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M3A02D-GEO100	Bridge A-1 (Deer Creek Box) Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		118	07/01/15	12/11/15
M3A02D-030S	Bridge A-1 (Deer Creek Box) Type Selection Report, P/S	62	07/01/15	09/28/15
M3A02D-030R	Bridge A-1 (Deer Creek Box) Type Selection Report, Authority R/A	20	09/29/15	10/27/15
M3A02D-030AGN	Bridge A-1 (Deer Creek Box) Type Selection Report, 3rd Party R/A	20	09/29/15	10/18/15
M3A02D-030CMN	Bridge A-1 (Deer Creek Box) Type Selection Report, Comments Resolution	10	10/28/15	11/10/15
M3A02D-030TYPE	Bridge A-1 (Deer Creek Box) Type Selection Report, Meeting and Approval	21	11/11/15	12/11/15
60% Design		142	12/14/15	06/28/16



Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
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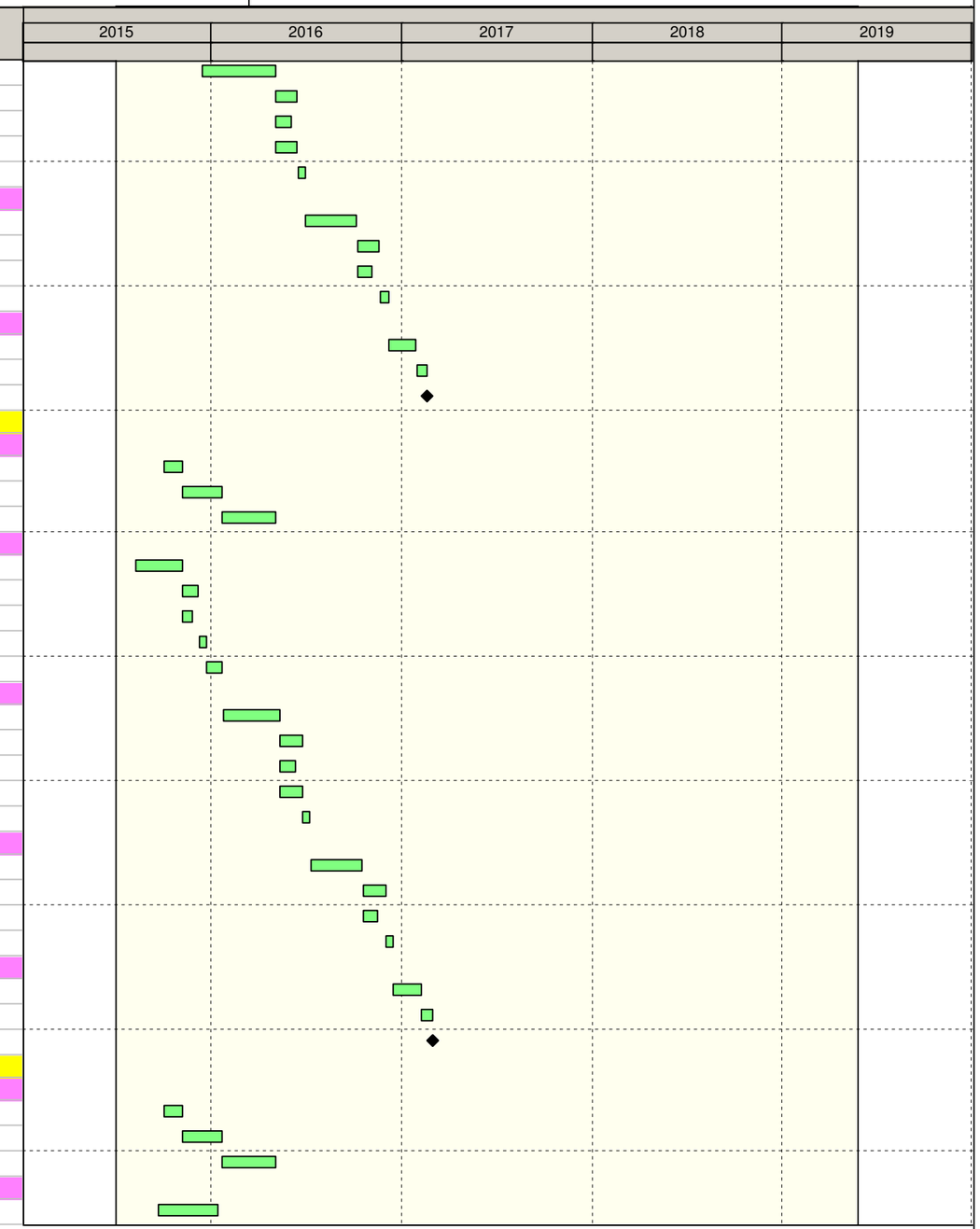
Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M3A02D-060S	Bridge A-1 (Deer Creek Box) 60% Bridge Design, P/S	97	12/14/15	05/02/16
M3A02D-060R	Bridge A-1 (Deer Creek Box) 60% Bridge Design, Authority R/A	30	05/03/16	06/14/16
M3A02D-060AGN	Bridge A-1 (Deer Creek Box) 60% Bridge Design, 3rd Party R/A	30	05/03/16	06/01/16
M3A02D-060IND	Bridge A-1 (Deer Creek Box) 60% Bridge Design, Independent Check	30	05/03/16	06/14/16
M3A02D-060CMNT	Bridge A-1 (Deer Creek Box) 60% Bridge Design, Comments Resolution	10	06/15/16	06/28/16
90% Design		115	06/29/16	12/06/16
M3A02D-090S	Bridge A-1 (Deer Creek Box) 90% Bridge Design, P/S	70	06/29/16	10/06/16
M3A02D-090R	Bridge A-1 (Deer Creek Box) 90% Bridge Design, Authority R/A	30	10/07/16	11/18/16
M3A02D-090AGN	Bridge A-1 (Deer Creek Box) 90% Bridge Design, 3rd Party R/A	30	10/07/16	11/05/16
M3A02D-090CMNT	Bridge A-1 (Deer Creek Box) 90% Bridge Design, Comments Resolution	10	11/21/16	12/06/16
RFC		50	12/07/16	02/17/17
M3A02D-100S	Bridge A-1 (Deer Creek Box) RFC Bridge Design-P/S	35	12/07/16	01/27/17
M3A02D-100R	Bridge A-1 (Deer Creek Box) RFC Bridge Design, Authority R/A	15	01/30/17	02/17/17
M3A02D-100A	Bridge A-1 (Deer Creek Box) RFC Bridge Design-Approved	0		02/17/17
Whitley C-1 (2810+00 to 2820+00)		408	08/10/15	03/01/17
Geotech		147	10/01/15	05/03/16
M3C08D-GEO060F	Bridge C-1 (SR137 & Whitley) Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M3C08D-GEO060	Bridge C-1 (SR137 & Whitley) Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M3C08D-GEO100	Bridge C-1 (SR137 & Whitley) Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		120	08/10/15	01/22/16
M3C08D-030S	Bridge C-1 (SR137 & Whitley) Type Selection Report, P/S	62	08/10/15	11/05/15
M3C08D-030R	Bridge C-1 (SR137 & Whitley) Type Selection Report, Authority R/A	20	11/06/15	12/07/15
M3C08D-030AGN	Bridge C-1 (SR137 & Whitley) Type Selection Report, 3rd Party R/A	20	11/06/15	11/25/15
M3C08D-030CMN	Bridge C-1 (SR137 & Whitley) Type Selection Report, Comments Resolution	10	12/08/15	12/21/15
M3C08D-030TYPE	Bridge C-1 (SR137 & Whitley) Type Selection Report, Meeting and Approval	21	12/22/15	01/22/16
60% Design		120	01/25/16	07/08/16
M3C08D-060S	Bridge C-1 (SR137 & Whitley) 60% Bridge Design, P/S	77	01/25/16	05/11/16
M3C08D-060R	Bridge C-1 (SR137 & Whitley) 60% Bridge Design, Authority R/A	30	05/12/16	06/23/16
M3C08D-060AGN	Bridge C-1 (SR137 & Whitley) 60% Bridge Design, 3rd Party R/A	30	05/12/16	06/10/16
M3C08D-060IND	Bridge C-1 (SR137 & Whitley) 60% Bridge Design, Independent Check	30	05/12/16	06/23/16
M3C08D-060CMNT	Bridge C-1 (SR137 & Whitley) 60% Bridge Design, Comments Resolution	10	06/24/16	07/08/16
90% Design		114	07/11/16	12/15/16
M3C08D-090S	Bridge C-1 (SR137 & Whitley) 90% Bridge Design, P/S	70	07/11/16	10/17/16
M3C08D-090R	Bridge C-1 (SR137 & Whitley) 90% Bridge Design, Authority R/A	30	10/18/16	12/01/16
M3C08D-090AGN	Bridge C-1 (SR137 & Whitley) 90% Bridge Design, 3rd Party R/A	30	10/18/16	11/16/16
M3C08D-090CMNT	Bridge C-1 (SR137 & Whitley) 90% Bridge Design, Comments Resolution	10	12/02/16	12/15/16
RFC		50	12/16/16	03/01/17
M3C08D-100S	Bridge C-1 (SR137 & Whitley) RFC Bridge Design-P/S	35	12/16/16	02/07/17
M3C08D-100R	Bridge C-1 (SR137 & Whitley) RFC Bridge Design, Authority R/A	15	02/08/17	03/01/17
M3C086D-100A	Bridge C-1 (SR137 & Whitley) RFC Bridge Design-Approved	0		03/01/17
BNSF (C4) (3011+00 to 3029+00)		484	09/21/15	07/27/17
Geotech		147	10/01/15	05/03/16
M3C15D-GEO060F	Bridge C-4 (BNSF Straddle) Geotech, Field Testing & Lab work	25	10/01/15	11/05/15
M3C15D-GEO060	Bridge C-4 (BNSF Straddle) Geotech, P/S and R/A DFR	50	11/06/15	01/21/16
M3C15D-GEO100	Bridge C-4 (BNSF Straddle) Geotech, P/S and R/A FFR	72	01/22/16	05/03/16
Type Selection		135	09/21/15	03/25/16
M3C15D-030S	Bridge C-4 (BNSF Straddle) Type Selection Report, P/S	77	09/21/15	01/12/16



Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
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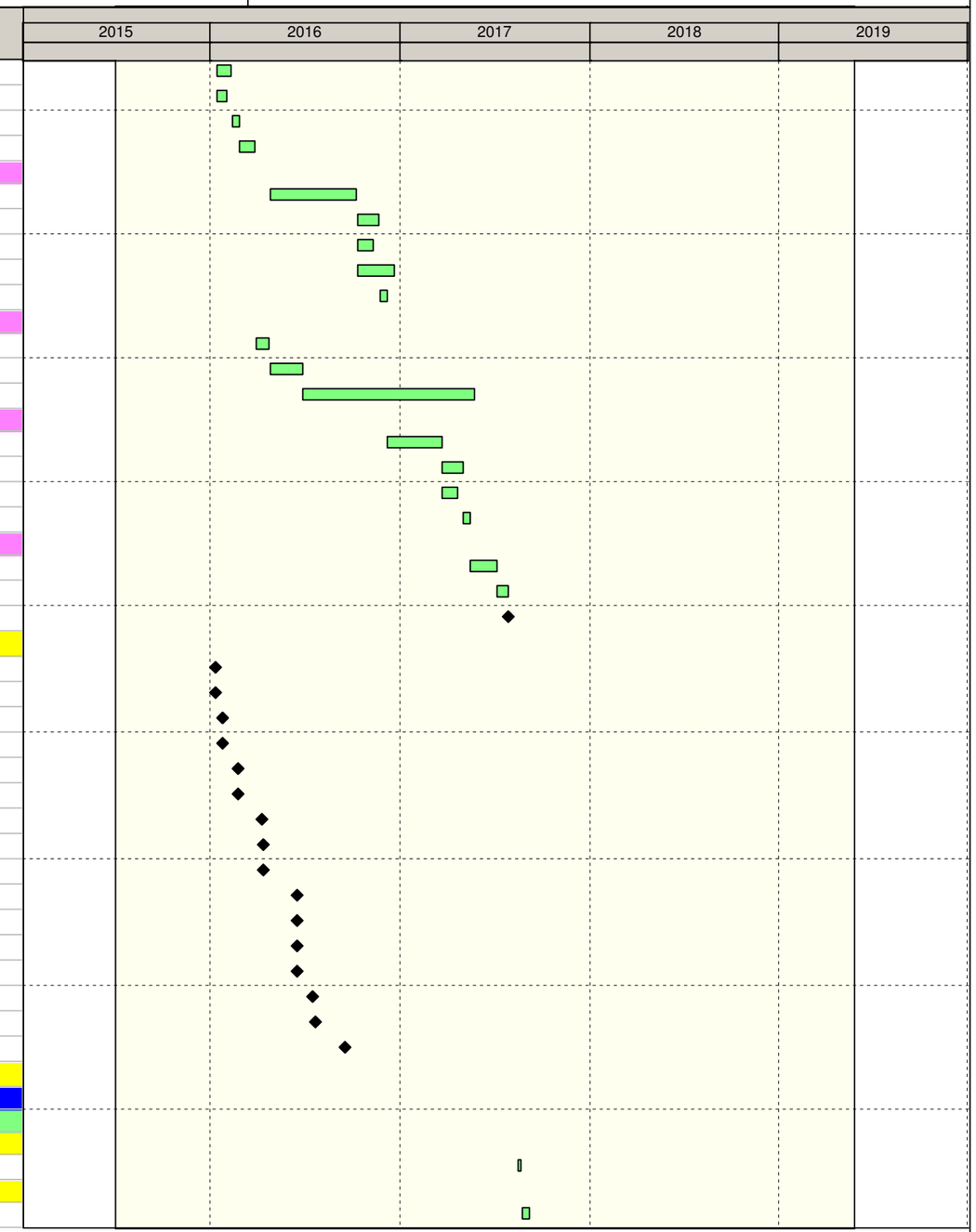
Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M3C15D-030R	Bridge C-4 (BNSF Straddle) Type Selection Report, Authority R/A	20	01/13/16	02/10/16
M3C15D-030AGN	Bridge C-4 (BNSF Straddle) Type Selection Report, 3rd Party R/A	20	01/13/16	02/01/16
M3C15D-030CMN	Bridge C-4 (BNSF Straddle) Type Selection Report, Comments Resolution	10	02/11/16	02/25/16
M3C15D-030TYPE	Bridge C-4 (BNSF Straddle) Type Selection Report, Meeting and Approval	21	02/26/16	03/25/16
60% Design		173	04/25/16	12/21/16
M3C15D-060S	Bridge C-4 (BNSF Straddle) 60% Bridge Design, P/S	117	04/25/16	10/07/16
M3C15D-060R	Bridge C-4 (BNSF Straddle) 60% Bridge Design, Authority R/A	30	10/10/16	11/21/16
M3C15D-060AGN	Bridge C-4 (BNSF Straddle) 60% Bridge Design, 3rd Party R/A	30	10/10/16	11/08/16
M3C15D-060IND	Bridge C-4 (BNSF Straddle) 60% Bridge Design, Independent Check	50	10/10/16	12/21/16
M3C15D-060CMNT	Bridge C-4 (BNSF Straddle) 60% Bridge Design, Comments Resolution	10	11/22/16	12/07/16
BNSF Design Package		302	03/28/16	05/23/17
M3C15D-030BNSI	Bridge C-4 (BNSF Straddle), BNSF Design Package, P/S	20	03/28/16	04/22/16
M3C15D-030BNSI	Bridge C-4 (BNSF Straddle), BNSF Design Package, BNSF R/A	45	04/25/16	06/27/16
M3C15D-030CPUC	Bridge C-4 (BNSF Straddle), BNSF Design Package, CPUC R/A	330	06/28/16	05/23/17
90% Design		114	12/08/16	05/16/17
M3C15D-090S	Bridge C-4 (BNSF Straddle) 90% Bridge Design, P/S	70	12/08/16	03/21/17
M3C15D-090R	Bridge C-4 (BNSF Straddle) 90% Bridge Design, Authority R/A	30	03/22/17	05/02/17
M3C15D-090AGN	Bridge C-4 (BNSF Straddle) 90% Bridge Design, 3rd Party R/A	30	03/22/17	04/20/17
M3C15D-090CMNT	Bridge C-4 (BNSF Straddle) 90% Bridge Design, Comments Resolution	10	05/03/17	05/16/17
RFC		50	05/17/17	07/27/17
M3C15D-100S	Bridge C-4 (BNSF Straddle) RFC Bridge Design-P/S	35	05/17/17	07/06/17
M3C15D-100R	Bridge C-4 (BNSF Straddle) RFC Bridge Design, Authority R/A	15	07/07/17	07/27/17
M3C15D-100A	Bridge C-4 (BNSF Straddle) RFC Bridge Design-Approved	0		07/27/17
ROW		249	01/10/16	09/15/16
ROWG34	ROW Group 34 Proposed Parcels Availability (ROD Base Date+562)	0	01/10/16	
ROWG34RR	ROW Group 34 RR Availability (ROD Base Date+562)	0	01/10/16	
ROWG39	ROW Group 39 Proposed Parcels Availability (ROD Base Date+575)	0	01/23/16	
ROWG3(B	ROW Group 39 Proposed Parcels Availability (ROD Base Date+575)(Deer Creek)	0	01/23/16	
ROWG36	ROW Group 36 Proposed Parcels Availability (ROD Base Date+605)	0	02/22/16	
ROWG38	ROW Group 38 Proposed Parcels Availability (ROD Base Date+605) (Ave 88)	0	02/22/16	
ROWG39A	ROW Group 39 Proposed Parcels Availability (ROD Base Date+652)	0	04/09/16	
ROWG35	ROW Group 35 Proposed Parcels Availability (ROD Base Date+655)	0	04/12/16	
ROWG40	ROW Group 40 Proposed Parcels Availability (ROD Base Date+655)	0	04/12/16	
ROWG35RR	ROW Group 35 RR Availability (ROD Base Date+720)	0	06/16/16	
ROWG36RR	ROW Group 36 RR Availability (ROD Base Date+720)	0	06/16/16	
ROWG37RR	ROW Group 37 RR Availability (ROD Base Date+720)	0	06/16/16	
ROWG37RR1	ROW Group 38 RR Availability (ROD Base Date+720)	0	06/16/16	
ROWG32	ROW Group 32 Proposed Parcels Availability (ROD Base Date+750)	0	07/16/16	
ROWG33	ROW Group 33 Proposed Parcels Availability (ROD Base Date+755) (Corcoran)	0	07/21/16	
ROWG37	ROW Group 37 Proposed Parcels Availability (ROD Base Date+811)	0	09/15/16	
Construction		668	09/26/16	04/17/19
Alignment C2		639	09/26/16	03/07/19
C2-2595+00 to C2-2615+00		152	08/16/17	03/15/18
Grubb and Demolition		5	08/16/17	08/22/17
M3C01C-1000	C2-2595+00 to C2-2615+00, Clear & Grubb	5	08/16/17	08/22/17
RCBC & Irrigation Relocation		10	08/25/17	09/08/17
M3C01BCA-100	C2-2595+00 to C2-2615+00, Precast Drainage Culverts	10	08/25/17	09/08/17

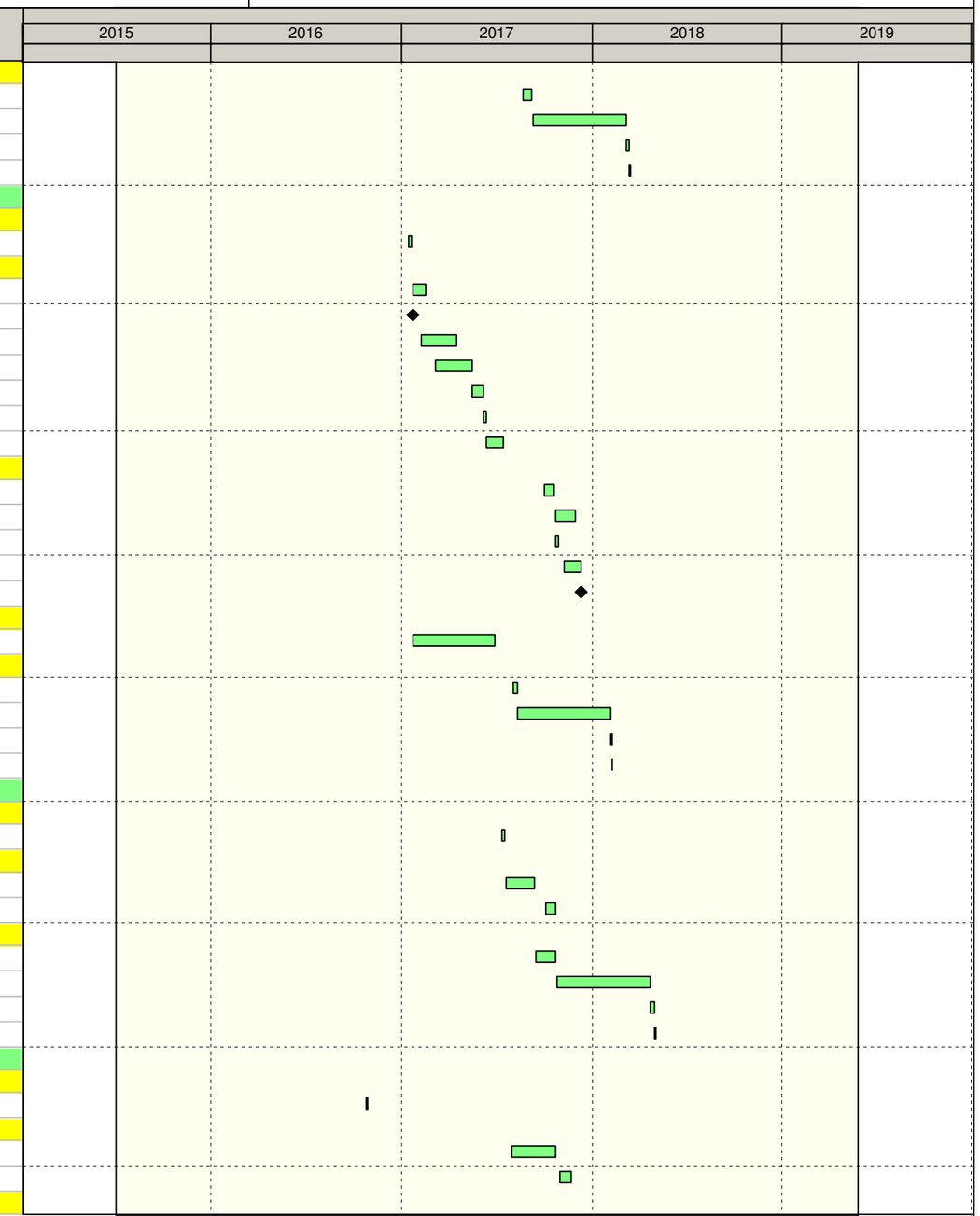


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
Track		147	08/23/17	03/15/18
M3C01TE-110	C2-2595+00 to C2-2615+00, HST Track Common Fill (FLOOD)	12	08/23/17	09/08/17
M3C01TE-120	C2-2595+00 to C2-2615+00, HST Track Common Fill, Surcharge Wait	180	09/09/17	03/07/18
M3C01TE-130	C2-2595+00 to C2-2615+00, HST Track Subgrade	4	03/08/18	03/13/18
M3C01TE-140	C2-2595+00 to C2-2615+00, HST Track AC	2	03/14/18	03/15/18
C2-2615+00 to C2-2625+00 (Nevada)		281	01/13/17	02/09/18
Grubb and Demolition		5	01/13/17	01/20/17
M3C02C-1000	Nevada Ave. (C2-2615+000 to C2-2625+00), Clear & Grubb	5	01/13/17	01/20/17
Structure (4 span)		125	01/23/17	07/14/17
M3C02S-1020	Nevada Ave., Foundations	17	01/23/17	02/14/17
M3C02S-0001	Nevada Ave., Start Structure	0	01/23/17	
M3C02S-1040	Nevada Ave., F/R/P Columns	50	02/06/17	04/17/17
M3C02S-1050	Nevada Ave., F/R/P Bent Caps	50	03/07/17	05/15/17
M3C02S-1080	Nevada Ave., Cure Concrete for Precast	21	05/16/17	06/05/17
M3C02S-1110	Nevada Ave., Place Precast Girders	5	06/06/17	06/12/17
M3C02S-1120	Nevada Ave., Deck Rebar/Forms & Pour	23	06/13/17	07/14/17
Access Road		49	10/02/17	12/12/17
M3C02S-1090	Nevada Ave., Build Embankments to Final Grade	15	10/02/17*	10/20/17
M3C02S-1130	Nevada Ave., Deck & Road Pavements	25	10/23/17	11/29/17
M3C02S-1100	Nevada Ave., Hydroseed Embankments	5	10/23/17	10/27/17
M3C02S-1140	Nevada Ave., Landscape/Permanent BMPS/Fencing	21	11/09/17	12/12/17
M3C02S-9000	Nevada Ave., Open for Traffic & Ready for Track work	0		12/12/17
RCBC & Irrigation Relocation		110	01/23/17	06/27/17
M3C02BCA-100	Nevada Ave. (C2-2615+000 to C2-2625+00), CIP Irrigation Culverts	110	01/23/17	06/27/17
Track		138	08/02/17	02/09/18
M3C02TE-110	Nevada Ave. (C2-2615+000 to C2-2625+00), HST Track Common Fill	7	08/02/17	08/10/17
M3C02TE-120	Nevada Ave. (C2-2615+000 to C2-2625+00), HST Track Common Fill, Surcharg...	180	08/11/17	02/06/18
M3C02TE-130	Nevada Ave. (C2-2615+000 to C2-2625+00), HST Track Subgrade	2	02/07/18	02/08/18
M3C02TE-140	Nevada Ave. (C2-2615+000 to C2-2625+00), HST Track AC	1	02/09/18	02/09/18
C2-2625+00 to C2-2655+00		212	07/12/17	05/03/18
Grubb and Demolition		5	07/12/17	07/18/17
M3C03C-1000	C2-2595+00 to C2-2615+00, Clear & Grubb	5	07/12/17	07/18/17
RCBC & Irrigation Relocation		69	07/19/17	10/24/17
M3C03BCA-100	C2-2595+00 to C2-2615+00, CIP Irrigation Culverts	40	07/19/17	09/13/17
M3C03BCA-110	C2-2595+00 to C2-2615+00, Precast Drainage Culverts	15	10/04/17	10/24/17
Track		166	09/14/17	05/03/18
M3C03TE-110	C2-2625+00 to C2-2655+00, HST Track Common Fill	29	09/14/17	10/24/17
M3C03TE-120	C2-2625+00 to C2-2655+00, HST Track Common Fill, Surcharge Wait	180	10/25/17	04/22/18
M3C03TE-130	C2-2625+00 to C2-2655+00, HST Track Subgrade	6	04/23/18	04/30/18
M3C03TE-140	C2-2625+00 to C2-2655+00, HST Track AC	3	05/01/18	05/03/18
C2-2655+00 to C2-2700+00		430	10/24/16	06/15/18
Grubb and Demolition		5	10/24/16	10/28/16
M3C04C-1000	C2-2655+00 to C2-2700+00, Clear & Grubb	5	10/24/16*	10/28/16
RCBC & Irrigation Relocation		80	08/01/17	11/22/17
M3C04BC-100	C2-2655+00 to C2-2700+00, CIP Irrigation Culverts & Canals	60	08/01/17	10/24/17
M3C04BC-110	C2-2655+00 to C2-2700+00, Precast Drainage Culverts	15	11/01/17	11/22/17
Track		168	10/25/17	06/15/18

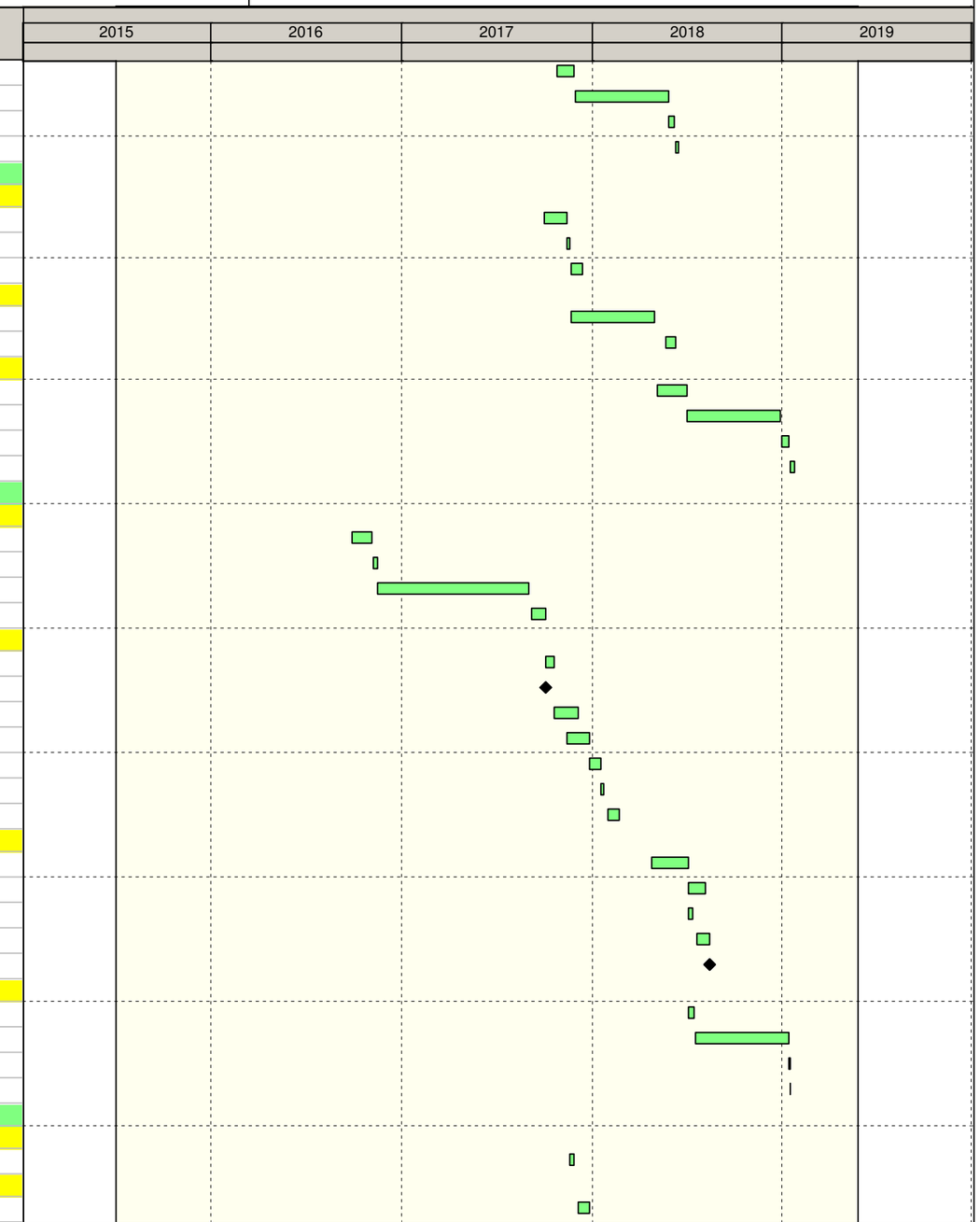


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M3C04TE-110	C2-2655+00 to C2-2700+00, HST Track Common Fill	22	10/25/17	11/28/17
M3C04TE-120	C2-2655+00 to C2-2700+00, HST Track Common Fill, Surcharge Wait	180	11/29/17	05/27/18
M3C04TE-130	C2-2655+00 to C2-2700+00, HST Track Subgrade	9	05/29/18	06/08/18
M3C04TE-140	C2-2655+00 to C2-2700+00, HST Track AC	5	06/11/18	06/15/18
C2-2700+00 to C2-2755+00		**344**	**10/02/17**	**01/24/19**
Grubb and Demolition		**50**	**10/02/17**	**12/13/17**
M3C05C-1010	C2-2700+00 to C2-2755+00, Demolition	30	10/02/17*	11/13/17
M3C05C-1000	C2-2700+00 to C2-2755+00, Clear & Grubb	5	11/14/17	11/20/17
M3C05C-1020	C2-2700+00 to C2-2755+00, Re-align Road (east side)	15	11/21/17	12/13/17
RCBC & Irrigation Relocation		**139**	**11/21/17**	**06/12/18**
M3C05BCA-100	C2-2700+00 to C2-2755+00, CIP Irrigation Culverts & Canals	110	11/21/17	05/01/18
M3C05BCA-110	C2-2700+00 to C2-2755+00, Precast Drainage Culverts	15	05/22/18	06/12/18
Track		**188**	**05/08/18**	**01/24/19**
M3C05TE-110	C2-2700+00 to C2-2755+00, HST Track Common Fill	40	05/08/18	07/03/18
M3C05TE-120	C2-2700+00 to C2-2755+00, HST Track Common Fill, Surcharge Wait	180	07/04/18	12/30/18
M3C05TE-130	C2-2700+00 to C2-2755+00, HST Track Subgrade	11	12/31/18	01/15/19
M3C05TE-140	C2-2700+00 to C2-2755+00, HST Track AC	6	01/16/19	01/24/19
C2-2755+00 to C2770+00 (Corocran)		**605**	**09/26/16**	**01/18/19**
Grubb and Demolition		**258**	**09/26/16**	**10/04/17**
M3C06C-1010	Corcoran Hwy. (C2-2755+00 to C2-2770+00), Demolition	30	09/26/16	11/04/16
M3C06C-1000	Corcoran Hwy. (C2-2755+00 to C2-2770+00), Clear & Grubb	5	11/07/16	11/14/16
M3C06C-1030	Corcoran Hwy. (C2-2755+00 to C2-2770+00), Move utilities	200	11/15/16	08/31/17
M3C06C-1020	Corcoran Hwy. (C2-2755+00 to C2-2770+00), Construct Detour (Permanent Acc...	20	09/07/17	10/04/17
Structure (2 Span)		**100**	**10/05/17**	**02/21/18**
M3C06S-1020	Corcoran Hwy., Foundations	11	10/05/17	10/19/17
M3C06S-0001	Corcoran Hwy., Start Structure	0	10/05/17	
M3C06S-1040	Corcoran Hwy., F/R/P Columns	30	10/20/17	12/05/17
M3C06S-1050	Corcoran Hwy., F/R/P Bent Caps	30	11/13/17	12/27/17
M3C06S-1080	Corcoran Hwy., Cure Concrete for Precast	21	12/28/17	01/17/18
M3C06S-1110	Corcoran Hwy., Place Precast Girders	3	01/18/18	01/22/18
M3C06S-1120	Corcoran Hwy., Deck Rebar/Forms & Pour	13	02/02/18	02/21/18
Access Roads		**78**	**04/27/18**	**08/16/18**
M3C06S-1090	Corcoran Hwy., Build Embankments to Final Grade	48	04/27/18	07/05/18
M3C06S-1130	Corcoran Hwy., Deck & Road Pavements	22	07/06/18	08/06/18
M3C06S-1100	Corcoran Hwy., Hydroseed Embankments	5	07/06/18	07/12/18
M3C06S-1140	Corcoran Hwy., Landscape/Permanent BMPS/Fencing	19	07/23/18	08/16/18
M3C06S-9000	Corcoran Hwy., Open for Traffic & Ready for Track work	0		08/16/18
Track		**142**	**07/05/18**	**01/18/19**
M3C06TE-110	Corcoran Hwy. (C2-2755+00 to C2-2770+00), HST Track Common Fill	9	07/05/18	07/17/18
M3C06TE-120	Corcoran Hwy. (C2-2755+00 to C2-2770+00), HST Track Common Fill, Surchar...	180	07/18/18	01/13/19
M3C06TE-130	Corcoran Hwy. (C2-2755+00 to C2-2770+00), HST Track Subgrade	3	01/14/19	01/16/19
M3C06TE-140	Corcoran Hwy. (C2-2755+00 to C2-2770+00), HST Track AC	2	01/17/19	01/18/19
C2770+00 to C2-2810+00		**179**	**11/20/17**	**07/26/18**
Grubb and Demolition		**5**	**11/20/17**	**11/28/17**
M3C07C-1000	C2-2770+00 to C2-2810+00, Clear & Grubb	5	11/20/17	11/28/17
RCBC & Irrigation Relocation		**15**	**12/06/17**	**12/27/17**
M3C07BCA-110	C2-2770+00 to C2-2810+00, Precast Drainage Culverts	15	12/06/17	12/27/17



Remaining Level of Effort
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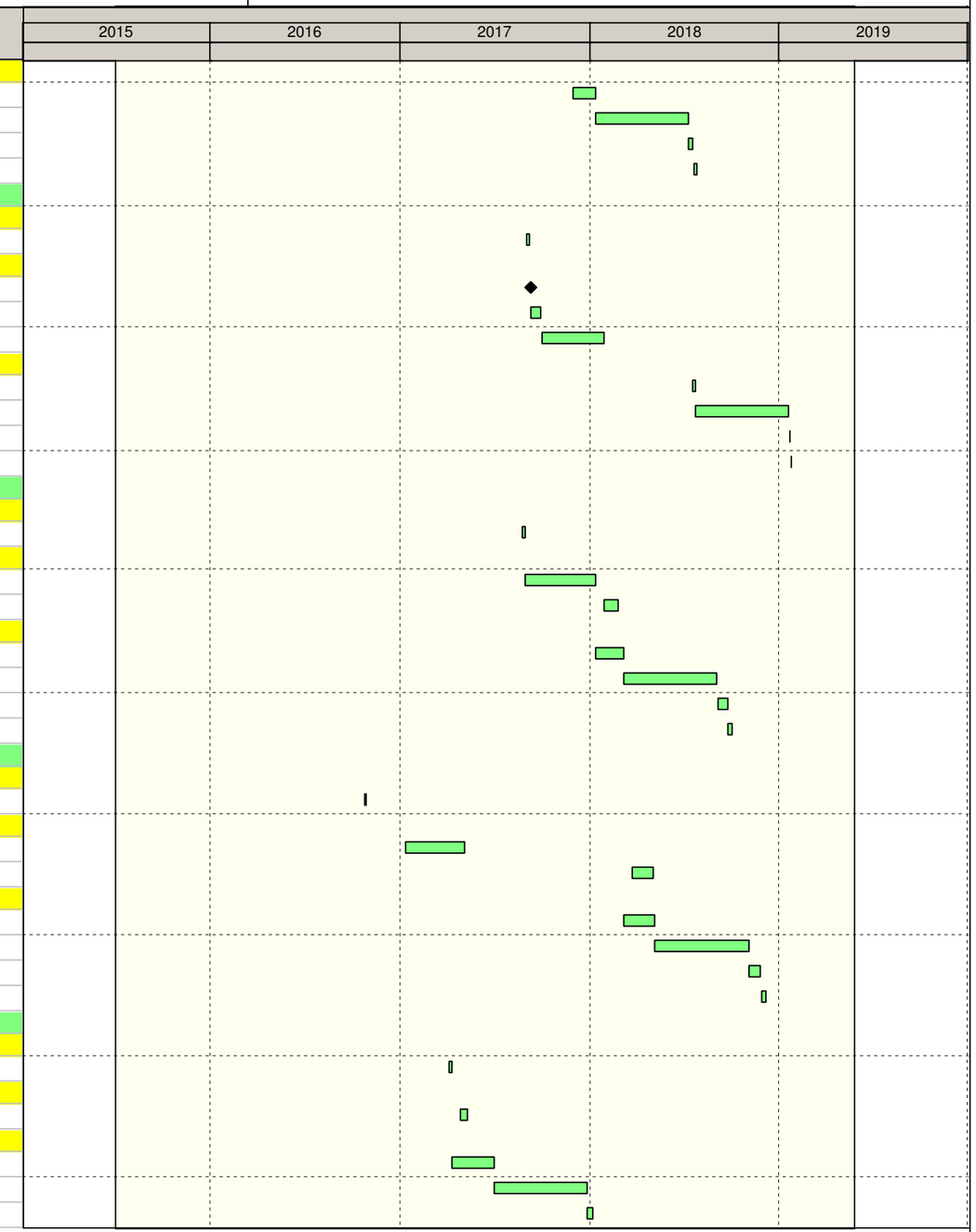
Activity ID	Activity Name	OD	Start	Finish
Track		172	11/29/17	07/26/18
M3C07TE-110	C2-2770+00 to C2-2810+00, HST Track Common Fill	30	11/29/17	01/11/18
M3C07TE-120	C2-2770+00 to C2-2810+00, HST Track Common Fill, Surcharge Wait	180	01/12/18	07/10/18
M3C07TE-130	C2-2770+00 to C2-2810+00, HST Track Subgrade	8	07/11/18	07/20/18
M3C07TE-140	C2-2770+00 to C2-2810+00, HST Track AC	4	07/23/18	07/26/18
C2-2810+00 to C2-2820+00 (SR 137)		365	09/01/17	01/24/19
Grubb and Demolition		5	09/01/17	09/08/17
M3C08C-1000	Bridge C-1 (SR137 & Whitley) (C2-2810+00 to C2-2820+00), Clear & Grubb	5	09/01/17*	09/08/17
Structure		95	09/11/17	01/29/18
M3C08RW-100	Bridge C-1 (SR137 & Whitley), Start Work	0	09/11/17	
M3C08RW-110	Bridge C-1 (SR137 & Whitley), Excavate	15	09/11/17	09/29/17
M3C08RW-120	Bridge C-1 (SR137 & Whitley), CIP Box Culvert & Wing Walls	80	10/02/17	01/29/18
Track		137	07/18/18	01/24/19
M3C08TE-110	Bridge C-1 (SR137 & Whitley) (C2-2810+00 to C2-2820+00), HST Track Comm...	5	07/18/18	07/24/18
M3C08TE-120	Bridge C-1 (SR137 & Whitley) (C2-2810+00 to C2-2820+00), HST Track Comm...	180	07/25/18	01/20/19
M3C08TE-130	Bridge C-1 (SR137 & Whitley) (C2-2810+00 to C2-2820+00), HST Track Subgrade	2	01/22/19	01/23/19
M3C08TE-140	Bridge C-1 (SR137 & Whitley) (C2-2810+00 to C2-2820+00), HST Track AC	1	01/24/19	01/24/19
C2-2820+00 to C2-2888+00		290	08/24/17	10/03/18
Grubb and Demolition		5	08/24/17	08/30/17
M3C09C-1000	C2-2820+00 to C2-2888+00, Clear & Grubb	5	08/24/17	08/30/17
RCBC & Irrigation Relocation		120	08/31/17	02/26/18
M3C09BC-100	Drainage @ C2-2821+00, Box Culvert, CIP Irrigation Culverts and Canal/Ditch ...	90	08/31/17	01/11/18
M3C09BC-110	Drainage @ C2-2821+00, Box Culvert, Precast Drainage Culverts	20	01/29/18	02/26/18
Track		189	01/12/18	10/03/18
M3C09TE-110	C2-2820+00 to C2-2888+00, HST Track Common Fill	38	01/12/18	03/08/18
M3C09TE-120	C2-2820+00 to C2-2888+00, HST Track Common Fill, Surcharge Wait	180	03/09/18	09/04/18
M3C09TE-130	C2-2820+00 to C2-2888+00, HST Track Subgrade	14	09/05/18	09/24/18
M3C09TE-140	C2-2820+00 to C2-2888+00, HST Track AC	7	09/25/18	10/03/18
C2-2888+00 to C2-2960+00		554	10/24/16	12/06/18
Grubb and Demolition		5	10/24/16	10/28/16
M3C10C-1000	C2-2888+00 to C2-2960+00, Clear & Grubb	5	10/24/16*	10/28/16
RCBC & Irrigation Relocation		330	01/11/17	05/03/18
M3C10BC-100	C2-2888+00 to C2-2960+00, CIP Irrigation Culverts and Canal/Ditch Work	80	01/11/17	05/04/17
M3C10BC-110	C2-2888+00 to C2-2960+00, Precast Drainage Culverts	30	03/23/18	05/03/18
Track		195	03/09/18	12/06/18
M3C10TE-110	C2-2888+00 to C2-2960+00, HST Track Common Fill	42	03/09/18	05/07/18
M3C10TE-120	C2-2888+00 to C2-2960+00, HST Track Common Fill, Surcharge Wait	180	05/08/18	11/03/18
M3C10TE-130	C2-2888+00 to C2-2960+00, HST Track Subgrade	14	11/05/18	11/27/18
M3C10TE-140	C2-2888+00 to C2-2960+00, HST Track AC	7	11/28/18	12/06/18
C2-2960+00 to C2-2996+00		203	04/05/17	01/12/18
Grubb and Demolition		5	04/05/17	04/11/17
M3C11C-1000	C2-2960+00 to C2-2996+00, Clear & Grubb	5	04/05/17	04/11/17
RCBC & Irrigation Relocation		10	04/26/17	05/09/17
M3C11BCA-110	C2-2960+00 to C2-2996+00, Precast Drainage Culverts	10	04/26/17	05/09/17
Track		198	04/12/17	01/12/18
M3C11TE-110	C2-2960+00 to C2-2996+00, HST Track Common Fill (FLOOD)	57	04/12/17	06/30/17
M3C11TE-120	C2-2960+00 to C2-2996+00, HST Track Common Fill, Surcharge Wait	180	07/01/17	12/27/17
M3C11TE-130	C2-2960+00 to C2-2996+00, HST Track Subgrade	7	12/28/17	01/08/18



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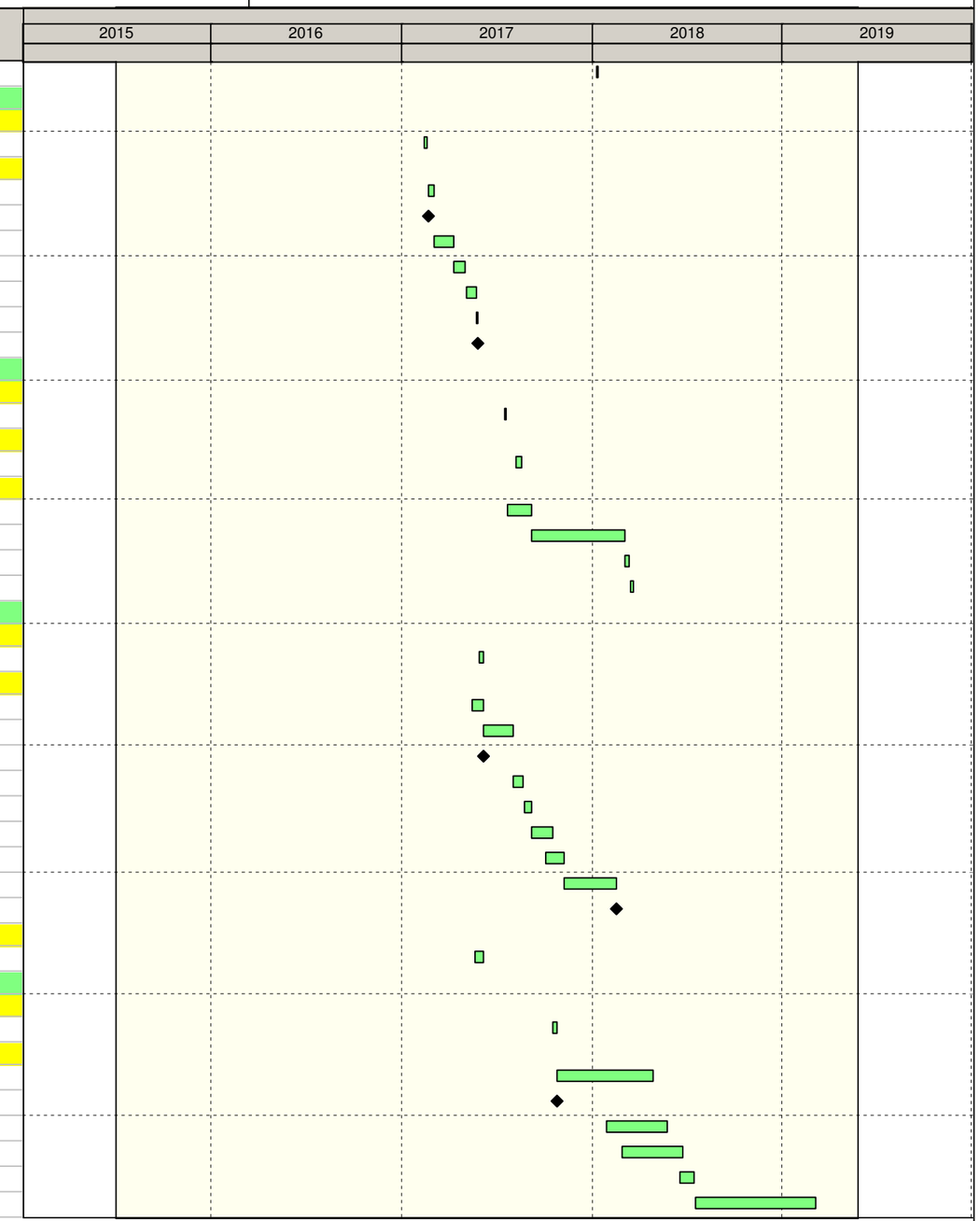
Activity ID	Activity Name	OD	Start	Finish
M3C11TE-140	C2-2960+00 to C2-2996+00, HST Track AC	4	01/09/18	01/12/18
C2-2996+00 to C2-2997+00 (Poplar)		75	02/13/17	05/26/17
Grubb and Demolition		5	02/13/17	02/17/17
M3C12C-1000	Bridge C-2b (Poplar) (C2-2996+00 to C2-2997+00), Clear & Grubb	5	02/13/17	02/17/17
Structure		69	02/21/17	05/26/17
M3C12S-1010	Bridge C-2b (Poplar), Foundations	8	02/21/17	03/02/17
M3C12S-0001	Bridge C-2b (Poplar), Start Structure	0	02/21/17	
M3C12S-1030	Bridge C-2b (Poplar), Wing Walls	28	03/03/17	04/11/17
M3C12S-1020	Bridge C-2b (Poplar), Abutments	16	04/12/17	05/03/17
M3C12S-1080	Bridge C-2b (Poplar), Cure Concrete	21	05/04/17	05/24/17
M3C12S-1110	Bridge C-2b (Poplar), Place Precast Girders	2	05/25/17	05/26/17
M3C12S-9000	Bridge C-2b (Poplar), Bridge complete	0		05/26/17
C2-2997+00 to C2-3002+00		177	07/17/17	03/20/18
Grubb and Demolition		5	07/17/17	07/21/17
M3C13C-1000	C2-2997+00 to C2-3002+00, Clear & Grubb	5	07/17/17	07/21/17
RCBC & Irrigation Relocation		10	08/07/17	08/18/17
M3C13BC-110	C2-2997+00 to C2-3002+00, Precast Drainage Culvert	10	08/07/17	08/18/17
Track		172	07/24/17	03/20/18
M3C13TE-110	C2-2997+00 to C2-3002+00, HST Track Cement Treated Fill	32	07/24/17	09/06/17
M3C13TE-120	C2-2997+00 to C2-3002+00, HST Track Cement Treated Fill, Surcharge Wait	180	09/07/17	03/05/18
M3C13TE-130	C2-2997+00 to C2-3002+00, HST Track Subgrade	7	03/06/18	03/14/18
M3C13TE-140	C2-2997+00 to C2-3002+00, HST Track AC	4	03/15/18	03/20/18
C2-3002+00 to C2-3012+00 (SR43)		200	05/15/17	02/16/18
Grubb and Demolition		5	05/30/17	06/05/17
M3C14C-1000	Bridge C-3b (SR-43) (C2-3002+00 to C2-3012+00), Clear & Grubb	5	05/30/17	06/05/17
Structure (8 Spans)		200	05/15/17	02/16/18
M3C14S-0010	Bridge C-3b (SR-43) (C2-3002+00 to C2-3012+00), Foundation Testing	15	05/15/17	06/05/17
M3C14S-1010	Bridge C-3b (SR-43) (C2-3002+00 to C2-3012+00), Foundations	41	06/06/17	08/02/17
M3C14S-0001	Bridge C-3b (SR-43) (C2-3002+00 to C2-3012+00), Start Structure	0	06/06/17	
M3C14S-1030	Bridge C-3b (SR-43) (C2-3002+00 to C2-3012+00), Wing Walls	14	08/03/17	08/22/17
M3C14S-1020	Bridge C-3b (SR-43) (C2-3002+00 to C2-3012+00), Abutments	8	08/25/17	09/06/17
M3C14S-1040	Bridge C-3b (SR-43) (C2-3002+00 to C2-3012+00), F/R/P Column	30	09/07/17	10/18/17
M3C14S-1050	Bridge C-3b (SR-43) (C2-3002+00 to C2-3012+00), F/R/P Bent Caps	25	10/05/17	11/08/17
M3C14S-1110	Bridge C-3b (SR-43) (C2-3002+00 to C2-3012+00), F/R/P Beams	43	11/09/17	02/16/18
M3C14S-9000	Bridge C-3b (SR-43) (C2-3002+00 to C2-3012+00), Bridge complete	0		02/16/18
RCBC & Irrigation Relocation		10	05/22/17	06/05/17
M3C13BCA-110	Bridge C-3b (SR-43) (C2-3002+00 to C2-3012+00), Precast Drainage Culvert	10	05/22/17	06/05/17
C2-3012+00 to C2-3029+00 (BNSF Straddle Bent)		361	10/19/17	03/07/19
Grubb and Demolition		5	10/19/17	10/25/17
M3C15C-1000	Bridge C-4 (BNSF Straddle) (C2-3012+00 to C2-3029+00), Clear & Grubb	5	10/19/17	10/25/17
Structure		356	10/26/17	03/07/19
M3C15S-1020	Bridge C-4 (BNSF Straddle), Foundations	102	10/26/17	04/27/18
M3C15S-0001	Bridge C-4 (BNSF Straddle), Start Structure	0	10/26/17	
M3C13S-1040	Bridge C-4 (BNSF Straddle), F/R/P Columns	83	01/30/18	05/25/18
M3C13S-1042	Bridge C-4 (BNSF Straddle), F/R/P Edge Beams	83	02/28/18	06/25/18
M3C13S-1110	Bridge C-4 (BNSF Straddle), Set Precast Beams	20	06/19/18	07/17/18
M3C13S-1120	Bridge C-4 (BNSF Straddle), F/R/P slabs	135	07/18/18	03/07/19



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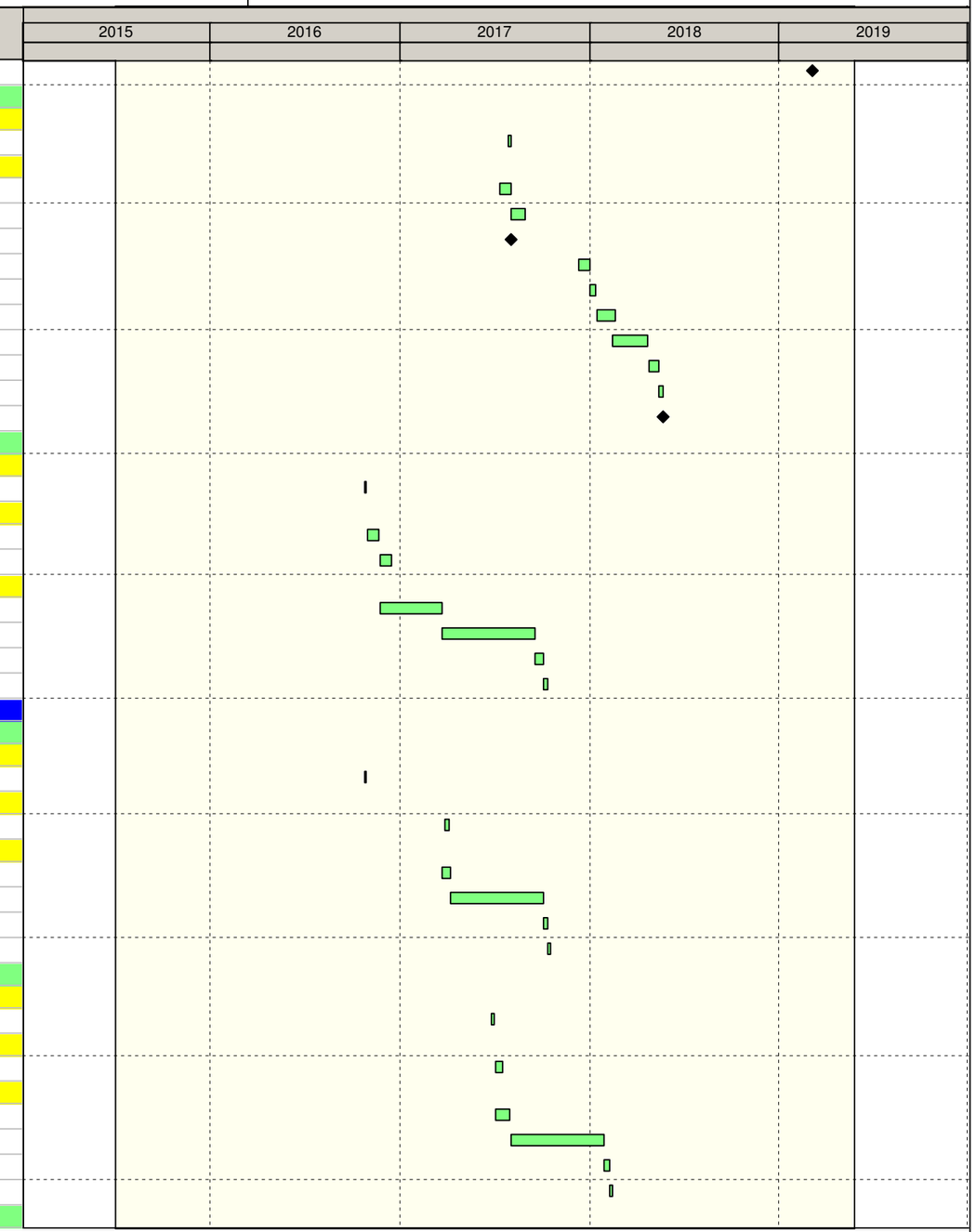
M3C13S-9000	Bridge C-4 (BNSF Straddle), Bridge complete	0		03/07/19
C2-3029+00 to C2-3032+00 (Tule)		225	07/13/17	05/23/18
Grubb and Demolition		5	07/27/17	08/02/17
M3C16C-1000	Bridge C-5 (Tule) , C2-3029+00 to C2-3032+00, Clear & Grubb	5	07/27/17	08/02/17
Structure		225	07/13/17	05/23/18
M3C16S-0011	Bridge C-5 (Tule) , Foundation Testing	15	07/13/17	08/02/17
M3C16S-1010	Bridge C-5 (Tule) , Foundations	20	08/03/17	08/30/17
M3C16S-0001	Bridge C-5 (Tule) , Start Structure	0	08/03/17	
M3C16S-1030	Bridge C-5 (Tule) , Wing Walls	14	12/12/17	01/02/18
M3C16S-1020	Bridge C-5 (Tule) , Abutments	8	01/03/18	01/12/18
M3C16S-1040	Bridge C-5 (Tule) , F/R/P Columns	25	01/16/18	02/20/18
M3C16S-1050	Bridge C-5 (Tule) , F/R/P Bent Caps	50	02/13/18	04/24/18
M3C16S-1080	Bridge C-5 (Tule) , Cure Concrete for Precast	21	04/25/18	05/15/18
M3C16S-1110	Bridge C-5 (Tule) , Place Precast Girders	6	05/16/18	05/23/18
M3C16S-9000	Bridge C-5 (Tule) , Bridge complete	0		05/23/18
C2-3032+00 to C2-3095+00		255	10/24/16	10/13/17
Grubb and Demolition		5	10/24/16	10/28/16
M3C17C-1000	C2-3032+00 to C2-3096+00, Clear & Grubb	5	10/24/16	10/28/16
RCBC & Irrigation Relocation		30	10/31/16	12/14/16
M3C17BC-120	C2-3032+00 to C2-3096+00, Precast Irrigation Culverts and Canal/Ditch Work	15	10/31/16	11/21/16
M3C17BC-110	C2-3032+00 to C2-3096+00, Precast Drainage Culverts	15	11/22/16	12/14/16
Track		234	11/22/16	10/13/17
M3C17TE-110	C2-3032+00 to C2-3096+00, HST Track Common Fill	80	11/22/16	03/21/17
M3C17TE-120	C2-3032+00 to C2-3096+00, HST Track Common Fill, Surcharge Wait	180	03/22/17	09/17/17
M3C17TE-130	C2-3032+00 to C2-3096+00, HST Track Subgrade	13	09/18/17	10/04/17
M3C17TE-140	C2-3032+00 to C2-3096+00, HST Track AC	7	10/05/17	10/13/17
Alignment P		599	10/24/16	02/07/19
P-3096+00 to P-3123+00		257	10/24/16	10/17/17
Grubb and Demolition		5	10/24/16	10/28/16
M3P01C-1000	P-3096+00 to P-3123+00, Clear & Grubb	5	10/24/16	10/28/16
RCBC & Irrigation Relocation		5	03/29/17	04/04/17
M3P01BC-110	P-3096+00 to P-3123+00, Precast Drainage Culvert	5	03/29/17	04/04/17
Track		150	03/22/17	10/17/17
M3P01TE-110	P-3096+00 to P-3123+00, HST Track Common Fill	13	03/22/17	04/07/17
M3P01TE-120	P-3096+00 to P-3123+00, HST Track Common Fill, Surcharge Wait	180	04/08/17	10/04/17
M3P01TE-130	P-3096+00 to P-3123+00, HST Track Subgrade	6	10/05/17	10/12/17
M3P01TE-140	P-3096+00 to P-3123+00, HST Track AC	3	10/13/17	10/17/17
P-3123+00 to P-3165+00		168	06/26/17	02/14/18
Grubb and Demolition		5	06/26/17	06/30/17
M3P02C-1000	P-3123+00 to P-3165+00, Clear & Grubb	5	06/26/17	06/30/17
RCBC & Irrigation Relocation		10	07/03/17	07/17/17
M3P02BC-110	P-3123+00 to P-3165+00, Precast Drainage Culverts	10	07/03/17	07/17/17
Track		163	07/03/17	02/14/18
M3P02TE-110	P-3123+00 to P-3165+00, HST Track Common Fill	21	07/03/17	08/01/17
M3P02TE-120	P-3123+00 to P-3165+00, HST Track Common Fill, Surcharge Wait	180	08/02/17	01/28/18
M3P02TE-130	P-3123+00 to P-3165+00, HST Track Subgrade	9	01/29/18	02/08/18
M3P02TE-140	P-3123+00 to P-3165+00, HST Track AC	4	02/09/18	02/14/18
P-3165+00 to P-3175+00 (Hesse)		472	04/19/17	02/07/19



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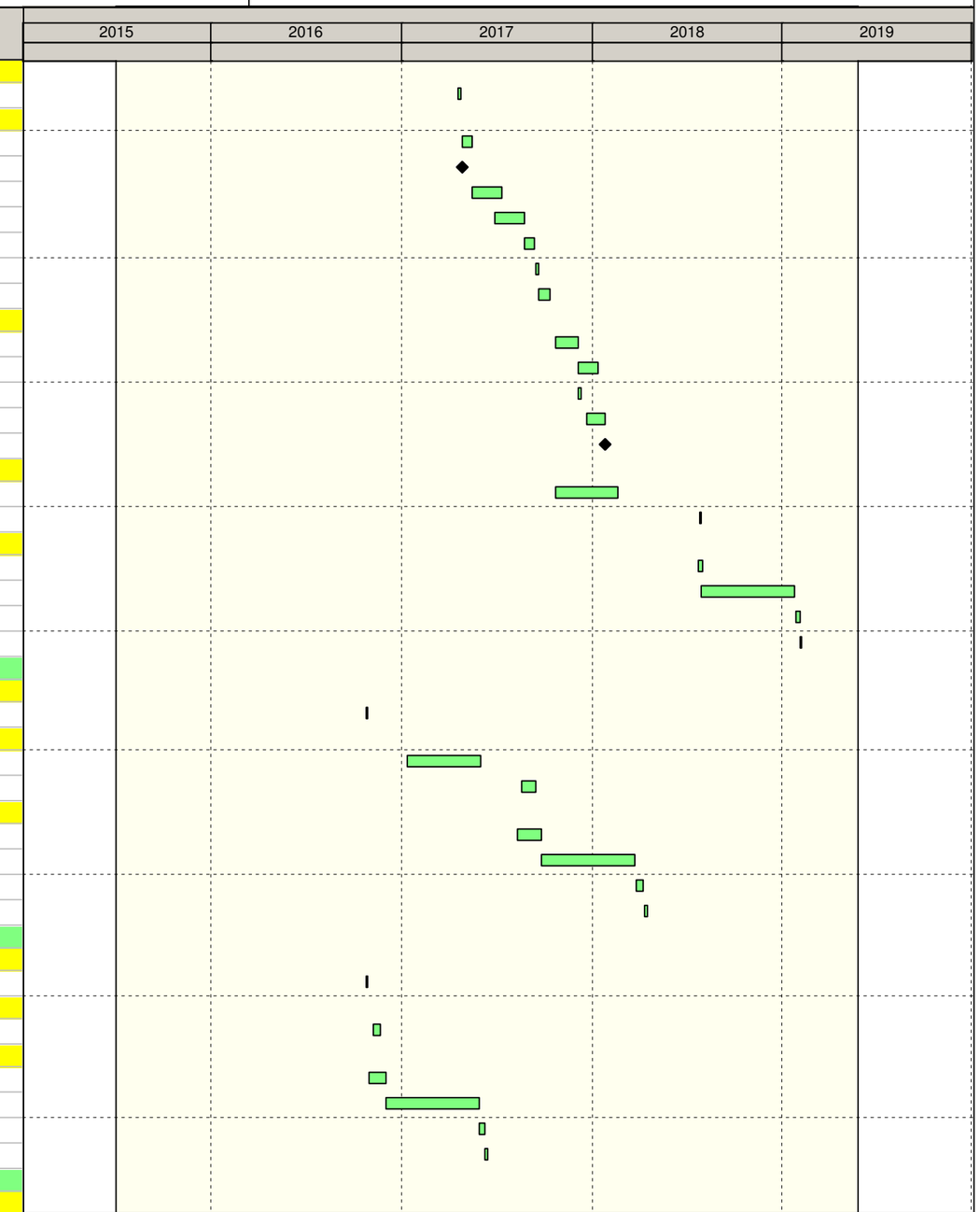
Activity ID	Activity Name	OD	Start	Finish
Grubb and Demolition		5	04/19/17	04/25/17
M3P03C-1000	Hesse Ave. (P-3165+00 to P-3175+00), Clear & Grubb	5	04/19/17	04/25/17
Structure (3 Span)		123	04/26/17	10/13/17
M3P03S-1020	Hesse Ave., Foundations	14	04/26/17	05/15/17
M3P03S-0001	Hesse Ave., Start Structure	0	04/26/17	
M3P03S-1040	Hesse Ave., F/R/P Columns	40	05/16/17	07/12/17
M3P03S-1050	Hesse Ave., F/R/P Bent Caps	40	06/28/17	08/23/17
M3P03S-1080	Hesse Ave., Cure Concrete for Precast	21	08/24/17	09/13/17
M3P03S-1110	Hesse Ave., Place Precast Girders	4	09/14/17	09/19/17
M3P03S-1120	Hesse Ave., Deck Rebar/Forms & Pour	18	09/20/17	10/13/17
Access Road		64	10/23/17	01/26/18
M3P03S-1090	Hesse Ave., Build Embankments to Final Grade	28	10/23/17	12/04/17
M3P03S-1130	Hesse Ave., Deck & Road Pavements	27	12/05/17	01/12/18
M3P03S-1100	Hesse Ave., Hydroseed Embankments	5	12/05/17	12/11/17
M3P03S-1140	Hesse Ave., Landscape/Permanent BMPS/Fencing	23	12/22/17	01/26/18
M3P03S-9000	Hesse Ave., Open for Traffic & Ready for Track work	0		01/26/18
RCBC & Irrigation Relocation		192	10/23/17	07/30/18
M3P03BC-100	Hesse Ave. (P-3165+00 to P-3175+00), CIP Irrigation Culverts and Canal/Ditch ...	80	10/23/17	02/20/18
M3P03BC-110	Hesse Ave. (P-3165+00 to P-3175+00), Precast Drainage Culvert	2	07/27/18	07/30/18
Track		142	07/25/18	02/07/19
M3P03TE-110	Hesse Ave. (P-3165+00 to P-3175+00), HST Track Common Fill	5	07/25/18	07/31/18
M3P03TE-120	Hesse Ave. (P-3165+00 to P-3175+00), HST Track Common Fill, Surcharge Wait	180	07/31/18	01/26/19
M3P03TE-130	Hesse Ave. (P-3165+00 to P-3175+00), HST Track Subgrade	6	01/28/19	02/04/19
M3P03TE-140	Hesse Ave. (P-3165+00 to P-3175+00), HST Track AC	3	02/05/19	02/07/19
P-3175+00 to P-3233+00		388	10/24/16	04/18/18
Grubb and Demolition		5	10/24/16	10/28/16
M3P04C-1000	P-3175+00 to P-3233+00, Clear & Grubb	5	10/24/16	10/28/16
RCBC & Irrigation Relocation		173	01/11/17	09/15/17
M3P04BC-100	Drainage @ P-3186+40, CIP Irrigation Culverts and Canal/Ditch Work	100	01/11/17	06/02/17
M3P04BC-110	Drainage @ P-3186+40, Precast Drainage Culverts	20	08/18/17	09/15/17
Track		179	08/11/17	04/18/18
M3P04TE-110	P-3175+00 to P-3233+00HST Track Common Fill	31	08/11/17	09/25/17
M3P04TE-120	HST Track Common Fill, Surcharge Wait, P-3175+00 to P-3233+00	180	09/26/17	03/24/18
M3P04TE-130	HST Track Subgrade, P-3175+00 to P-3233+00	12	03/26/18	04/10/18
M3P04TE-140	HST Track AC, P-3175+00 to P-3233+00	6	04/11/18	04/18/18
P-3322+00 to P-3271+00		168	10/24/16	06/14/17
Grubb and Demolition		5	10/24/16	10/28/16
M3P05C-1000	P-3233+00 to P-3271+00, Clear & Grubb	5	10/24/16	10/28/16
RCBC & Irrigation Relocation		10	11/07/16	11/21/16
M3P05BC-110	P-3233+00 to P-3271+00, Precast Drainage Culverts	10	11/07/16	11/21/16
Track		163	10/31/16	06/14/17
M3P05TE-110	P-3233+00 to P-3271+00, HST Track Common Fill	20	10/31/16	11/30/16
M3P05TE-120	P-3233+00 to P-3271+00, HST Track Common Fill, Surcharge Wait	180	12/01/16	05/29/17
M3P05TE-130	P-3233+00 to P-3271+00, HST Track Subgrade	8	05/30/17	06/08/17
M3P05TE-140	P-3233+00 to P-3271+00, HST Track AC	4	06/09/17	06/14/17
P-3271+00 to P-3340+00		452	10/24/16	07/17/18
Grubb and Demolition		5	10/24/16	10/28/16

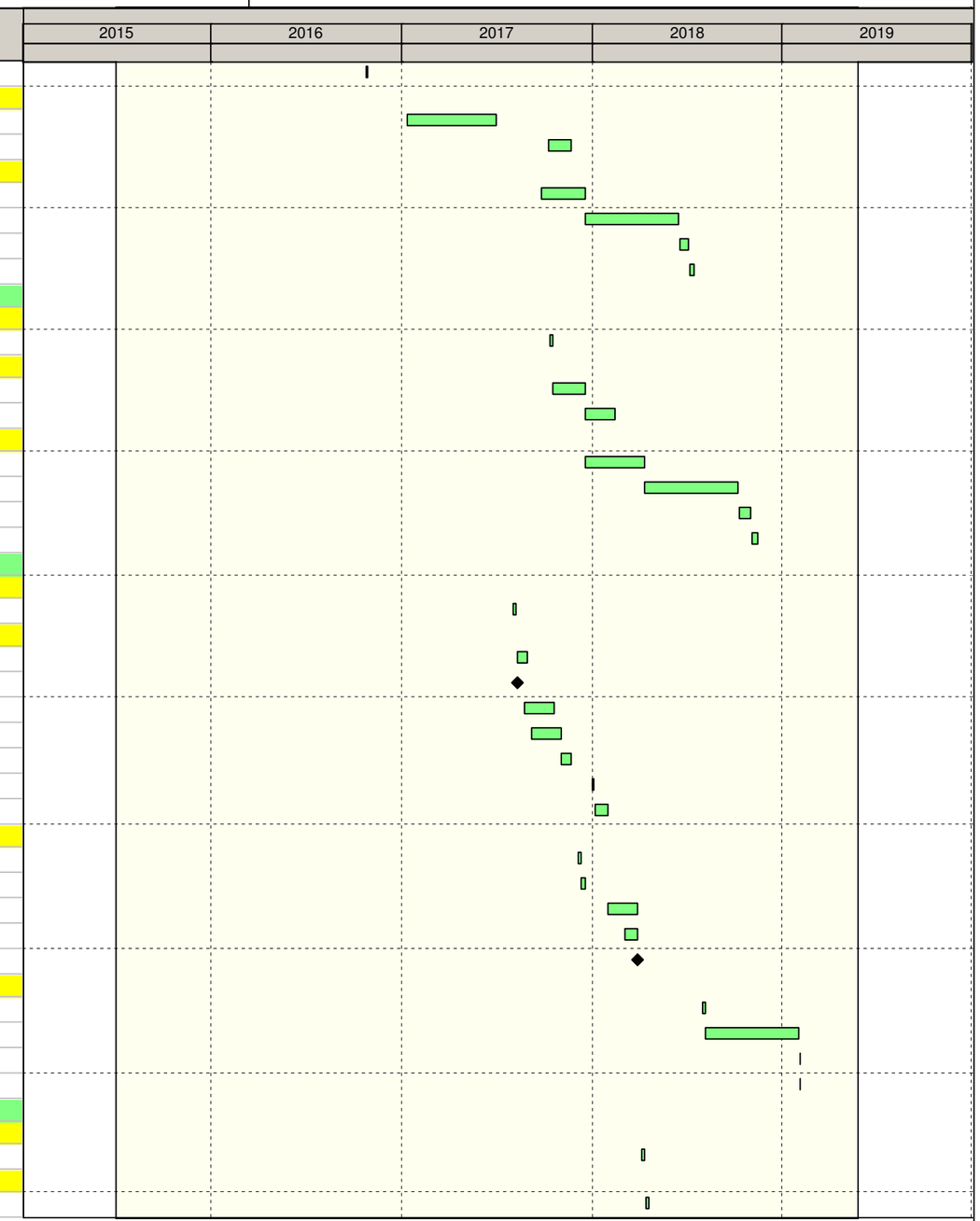


Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M3P06C-1000	P-3271+00 to P-3340+00, Clear & Grubb	5	10/24/16	10/28/16
RCBC & Irrigation Relocation		219	01/11/17	11/21/17
M3P06BC-100	Drainage @ P-3279+00, CIP Irrigation Culverts and Canal/Ditch Work	120	01/11/17	06/30/17
M3P06BC-110	Drainage @ P-3279+00, Precast Drainage Culverts	30	10/10/17	11/21/17
Track		211	09/26/17	07/17/18
M3P06TE-110	P-3271+00 to P-3340+00, HST Track Common Fill	57	09/26/17	12/18/17
M3P06TE-120	P-3271+00 to P-3340+00, HST Track Common Fill, Surcharge Wait	180	12/19/17	06/16/18
M3P06TE-130	P-3271+00 to P-3340+00, HST Track Subgrade	14	06/18/18	07/06/18
M3P06TE-140	P-3271+00 to P-3340+00, HST Track AC	7	07/09/18	07/17/18
P-3340+00 to P-3430+00		287	10/12/17	11/16/18
Grubb and Demolition		5	10/12/17	10/18/17
M3P07C-1000	P-3340+00 to P-3430+00, Clear & Grubb	5	10/12/17	10/18/17
RCBC & Irrigation Relocation		80	10/19/17	02/15/18
M3P07BC-100	Drainage @ P-3354+50, CIP Irrigation Culverts and Canal/Ditch Work	40	10/19/17	12/18/17
M3P07BC-110	Drainage @ P-3354+50, Precast Drainage Culverts	40	12/19/17	02/15/18
Track		239	12/19/17	11/16/18
M3P07TE-110	P-3340+00 to P-3430+00, HST Track Common Fill (FLOOD)	79	12/19/17	04/12/18
M3P07TE-120	P-3340+00 to P-3430+00, HST Track Common Fill, Surcharge Wait	180	04/13/18	10/09/18
M3P07TE-130	P-3340+00 to P-3430+00, HST Track Subgrade	18	10/10/18	11/02/18
M3P07TE-140	P-3340+00 to P-3430+00, HST Track AC	9	11/05/18	11/16/18
P-3430+00 to P-3440+00 (Ave 88)		395	08/03/17	02/06/19
Grubb and Demolition		5	08/03/17	08/09/17
M3P08C-1000	Ave 88. (Clear & Grubb, P-3430+00 to P-3440+00)	5	08/03/17	08/09/17
Structure (3 Span)		126	08/10/17	02/01/18
M3P08S-1020	Ave 88., Foundations	14	08/10/17	08/29/17
M3P08S-0001	Ave 88., Start Structure	0	08/10/17	
M3P08S-1040	Ave 88., F/R/P Columns	40	08/24/17	10/19/17
M3P08S-1050	Ave 88., F/R/P Bent Caps	40	09/08/17	11/02/17
M3P08S-1080	Ave 88., Cure Concrete for Precast	21	11/03/17	11/23/17
M3P08S-1110	Ave 88., Place Precast Girders	4	01/02/18	01/05/18
M3P08S-1120	Ave 88., Deck Rebar/Forms & Pour	18	01/08/18	02/01/18
Access Roads		80	12/05/17	03/30/18
M3P08S-1090	Ave 88., Build Embankments to Final Grade	5	12/05/17	12/11/17
M3P08S-1100	Ave 88., Hydroseed Embankments	5	12/12/17	12/18/17
M3P08S-1130	Ave 88., Deck & Road Pavements	40	02/02/18	03/30/18
M3P08S-1140	Ave 88., Landscape/Permanent BMPS/Fencing	20	03/05/18	03/30/18
M3P08S-9000	Ave 88., Open for Traffic & Ready for Track work	0		03/30/18
Track		136	08/01/18	02/06/19
M3P08TE-110	P-3430+00 to P-3440+00, HST Track Common Fill	4	08/01/18	08/06/18
M3P08TE-120	P-3430+00 to P-3440+00, HST Track Common Fill, Surcharge Wait	180	08/07/18	02/02/19
M3P08TE-130	P-3430+00 to P-3440+00, HST Track Subgrade	2	02/04/19	02/05/19
M3P08TE-140	P-3430+00 to P-3440+00, HST Track AC	1	02/06/19	02/06/19
P-3440+00 to P-3459+00		147	04/06/18	10/29/18
Grubb and Demolition		5	04/06/18	04/12/18
M3P09C-1000	P-3440+00 to P-3459+00, Clear & Grubb	5	04/06/18	04/12/18
RCBC & Irrigation Relocation		5	04/16/18	04/20/18
M3P09BCA-110	Drainage @ P-3448+50, Precast Drainage Culvert	5	04/16/18	04/20/18



Remaining Level of Effort
Actual Work
Remaining Work
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Milestone

California High-Speed Rail Program
Construction Package 2-3
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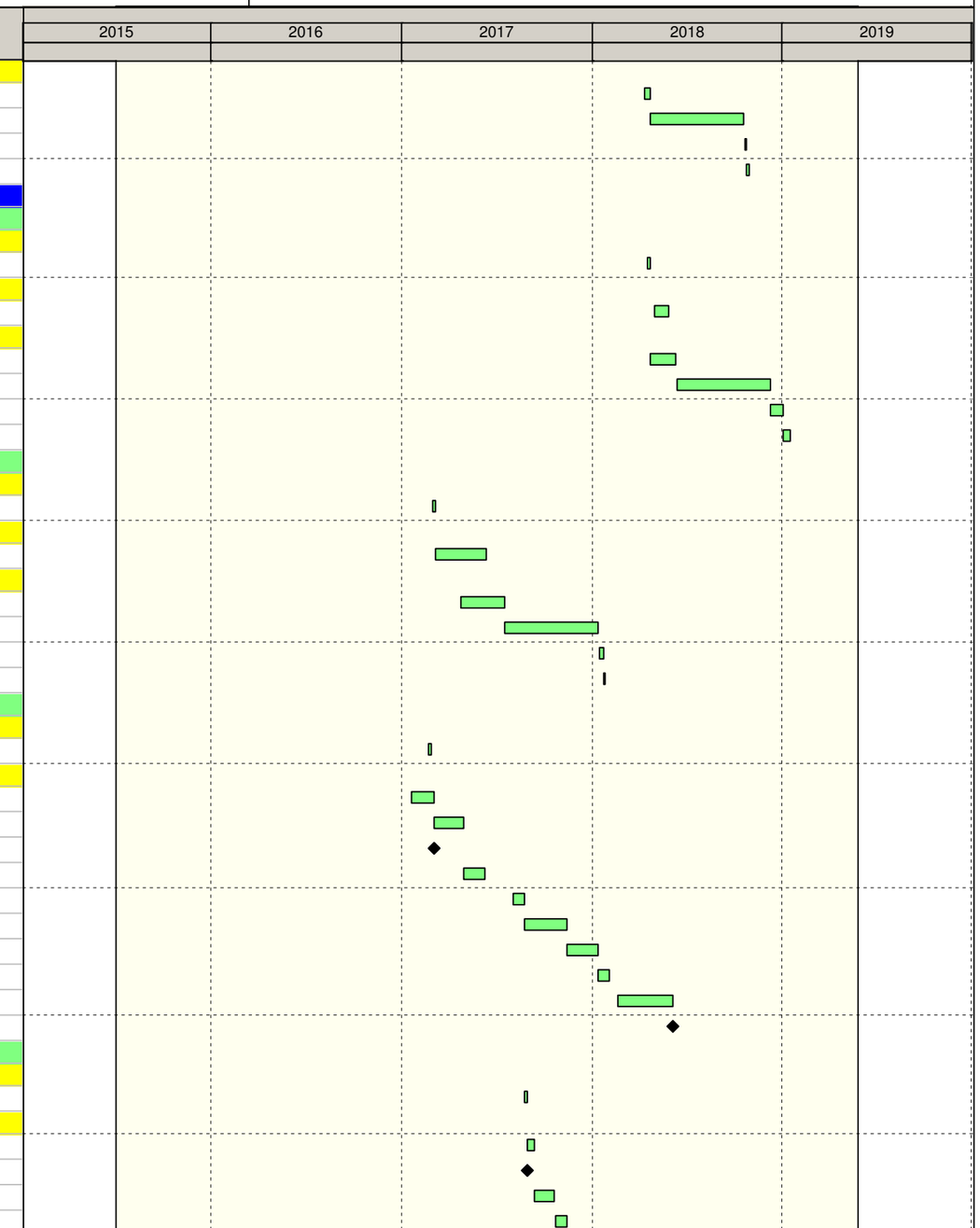
Activity ID	Activity Name	OD	Start	Finish
Track		142	04/13/18	10/29/18
M3P09TE-110	P-3440+00 to P-3459+00, HST Track Common Fill	7	04/13/18	04/23/18
M3P09TE-120	P-3440+00 to P-3459+00, HST Track Common Fill, Surcharge Wait	180	04/24/18	10/20/18
M3P09TE-130	P-3440+00 to P-3459+00, HST Track Subgrade	4	10/22/18	10/25/18
M3P09TE-140	P-3440+00 to P-3459+00, HST Track AC	2	10/26/18	10/29/18
Alignment A1		648	10/24/16	04/17/19
A1-3919+00 to A1-4005+00		197	04/17/18	01/16/19
Grubb and Demolition		5	04/17/18	04/23/18
M3A01C-1000	A1-3919+00 to A1-4005+00, Clear & Grubb	5	04/17/18	04/23/18
RCBC & Irrigation Relocation		20	05/01/18	05/29/18
M3A01BCA-110	A1-3919+00 to A1-4005+00, Precast Drainage Culverts	20	05/01/18	05/29/18
Track		192	04/24/18	01/16/19
M3A01TE-110	A1-3919+00 to A1-4005+00, HST Track Common Fill	35	04/24/18	06/12/18
M3A01TE-120	A1-3919+00 to A1-4005+00, HST Track Common Fill, Surcharge Wait	180	06/13/18	12/09/18
M3A01TE-130	A1-3919+00 to A1-4005+00, HST Track Subgrade	17	12/10/18	01/03/19
M3A01TE-140	A1-3919+00 to A1-4005+00, HST Track AC	9	01/04/19	01/16/19
A1-4005+00 to A1-4030+00		238	02/28/17	01/25/18
Grubb and Demolition		5	02/28/17	03/06/17
M3A02C-1000	A1-4005+00 to A1-4030+00, Clear & Grubb	5	02/28/17	03/06/17
Structure (1 Span)		70	03/07/17	06/13/17
M3A02S-110	A1-4005+00 to A1-4030+00, F/R/P Box Culver & Wing Walls	70	03/07/17	06/13/17
Track		199	04/24/17	01/25/18
M3A02TE-110	A1-4005+00 to A1-4030+00, HST Track Common Fill	59	04/24/17	07/17/17
M3A02TE-120	A1-4005+00 to A1-4030+00, HST Track Common Fill, Surcharge Wait	180	07/18/17	01/13/18
M3A02TE-130	A1-4005+00 to A1-4030+00, HST Track Subgrade	5	01/16/18	01/22/18
M3A02TE-140	A1-4005+00 to A1-4030+00, HST Track AC	3	01/23/18	01/25/18
Bridge A-3 (Stoil Spur Box Girder)		359	01/19/17	06/05/18
Grubb and Demolition		5	02/21/17	02/27/17
M3A03C-1000	Bridge A-2 (Stoil Spur Box Girder) (A1-4030+00 to A1-4044+00), Clear & Grubb	5	02/21/17*	02/27/17
Structure (12 Span)		359	01/19/17	06/05/18
M3A03S-0010	Bridge A-2 (Stoil Spur Box Girder), Foundation Testing	30	01/19/17	03/02/17
M3A03S-1010	Bridge A-2 (Stoil Spur Box Girder), Foundation	41	03/03/17	04/28/17
M3A03S-0001	Bridge A-2 (Stoil Spur Box Girder), Start Structure	0	03/03/17	
M3A03S-1030	Bridge A-2 (Stoil Spur Box Girder), Wing Walls	28	05/01/17	06/08/17
M3A03S-1020	Bridge A-2 (Stoil Spur Box Girder), Abutments	16	08/03/17	08/24/17
M3A03S-1040	Bridge A-2 (Stoil Spur Box Girder), F/R/P Columns	55	08/25/17	11/13/17
M3A03S-1050	Bridge A-2 (Stoil Spur Box Girder), F/R/P Bent Caps	40	11/14/17	01/12/18
M3A03S-1080	Bridge A-2 (Stoil Spur Box Girder), Cure Concrete	21	01/13/18	02/02/18
M3A03S-1110	Bridge A-2 (Stoil Spur Box Girder), F/R/P CIP Girders	75	02/20/18	06/05/18
M3A03S-9000	Bridge A-2 (Stoil Spur Box Girder), Bridge complete	0		06/05/18
A1-4044+00 to A1-4060+00 (Truss Bridge)		425	08/24/17	04/10/19
Grubb and Demolition		5	08/24/17	08/30/17
M3A04C-1000	Bridge A-3 (Stoil Spur Truss) (A1-4044+00 to A1-4060+00), Clear & Grubb	5	08/24/17	08/30/17
Structure		92	08/31/17	01/05/18
M3A04S-1010	Bridge A-3 (Stoil Spur Truss), Foundation	8	08/31/17	09/12/17
M3A04S-0001	Bridge A-3 (Stoil Spur Truss), Start Structure	0	08/31/17	
M3A04S-1030	Bridge A-3 (Stoil Spur Truss), Wing Wall	28	09/13/17	10/20/17
M3A04S-1020	Bridge A-3 (Stoil Spur Truss), Abutments	16	10/23/17	11/14/17



Remaining Level of Effort
Actual Work
Remaining Work
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Milestone

California High-Speed Rail Program
Construction Package 2-3
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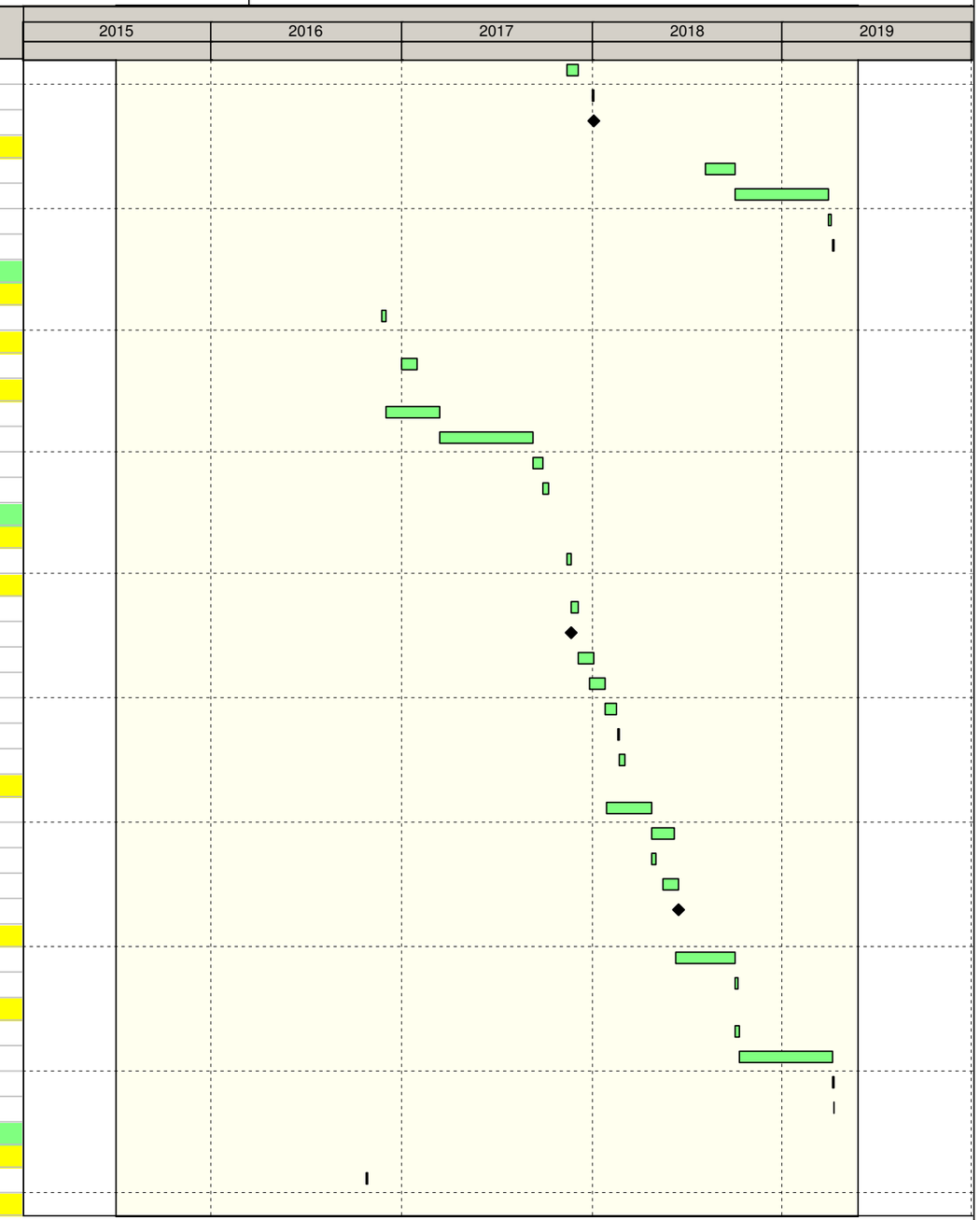
Activity ID	Activity Name	OD	Start	Finish
M3A04S-1080	Bridge A-3 (Stoil Spur Truss), Cure Concrete	21	11/15/17	12/05/17
M3A04S-1110	Bridge A-3 (Stoil Spur Truss), Place Truss	4	01/02/18	01/05/18
M3A04S-9000	Bridge A-3 (Stoil Spur Truss), Bridge complete	0		01/05/18
Track		177	08/07/18	04/10/19
M3A04TE-110	A1-4044+00 to A1-4060+00, HST Track Common Fill	40	08/07/18	10/02/18
M3A04TE-120	A1-4044+00 to A1-4060+00, HST Track Common Fill, Surcharge Wait	180	10/03/18	03/31/19
M3A04TE-130	A1-4044+00 to A1-4060+00, HST Track Subgrade	5	04/01/19	04/05/19
M3A04TE-140	A1-4044+00 to A1-4060+00, HST Track AC	3	04/08/19	04/10/19
A1-4060+00 to A1-4115+00		230	11/22/16	10/09/17
Grubb and Demolition		5	11/22/16	11/30/16
M3A05C-1000	A1-4060+00 to A1-4115+00, Clear & Grubb	5	11/22/16	11/30/16
RCBC & Irrigation Relocation		20	12/30/16	01/30/17
M3A05BCA-110	A1-4060+00 to A1-4115+00, Precast Drainage Culverts	20	12/30/16	01/30/17
Track		223	12/01/16	10/09/17
M3A05TE-110	A1-4060+00 to A1-4115+00, HST Track Common Fill	70	12/01/16	03/14/17
M3A05TE-120	A1-4060+00 to A1-4115+00, HST Track Common Fill, Surcharge Wait	180	03/15/17	09/10/17
M3A05TE-130	A1-4060+00 to A1-4115+00, HST Track Subgrade	14	09/11/17	09/28/17
M3A05TE-140	A1-4060+00 to A1-4115+00, HST Track ac	7	09/29/17	10/09/17
A1-4115+00 to A1-4125+00 (J22)		368	11/15/17	04/12/19
Grubb and Demolition		5	11/15/17	11/21/17
M3A06C-1000	J22 (A1-4115+00 TO A1-4125+00), Clear & Grubb	5	11/15/17	11/21/17
Structure (1 span)		74	11/22/17	03/05/18
M3A06S-1020	J22, Foundations	8	11/22/17	12/05/17
M3A06S-0001	J22, Start Structure	0	11/22/17	
M3A06S-1040	J22, F/R/P Columns	20	12/06/17	01/04/18
M3A06S-1050	J22, F/R/P Bent Caps	20	12/28/17	01/26/18
M3A06S-1080	J22, Cure Concrete for Precast	21	01/27/18	02/16/18
M3A06S-1110	J22, Place Precast Girders	2	02/20/18	02/21/18
M3A06S-1120	J22, Deck Rebar/Forms & Pour	8	02/22/18	03/05/18
Access Roads		98	01/29/18	06/15/18
M3A06S-1090	J22, Build Embankments to Final Grade	63	01/29/18	04/26/18
M3A06S-1130	J22, Deck & Road Pavements	30	04/27/18	06/08/18
M3A06S-1100	J22, Hydroseed Embankments	5	04/27/18	05/03/18
M3A06S-1140	J22, Landscape/Permanent BMPS/Fencing	20	05/18/18	06/15/18
M3A06S-9000	J22, Open for Traffic & Ready for Track work	0		06/15/18
RCBC & Irrigation Relocation		85	06/11/18	10/09/18
M3A06BC-100	Irrigation @ A1-4115+50, CIP Irrigation Culverts and Canal/Ditch Work	80	06/11/18	10/02/18
M3A06BC-110	Irrigation @ A1-4115+50, Precast Drainage Culvert	5	10/03/18	10/09/18
Track		138	10/03/18	04/12/19
M3A06TE-110	J22 (A1-4115+00 TO A1-4125+00), HST Track Common Fill	6	10/03/18	10/10/18
M3A06TE-120	J22 (A1-4115+00 TO A1-4125+00), HST Track Common Fill, Surcharge Wait	180	10/11/18	04/08/19
M3A06TE-130	J22 (A1-4115+00 TO A1-4125+00), HST Track Subgrade	3	04/09/19	04/11/19
M3A06TE-140	J22 (A1-4115+00 TO A1-4125+00), HST Track AC	1	04/12/19	04/12/19
A1-4125+00 to A1-4170+00		272	10/24/16	11/07/17
Grubb and Demolition		5	10/24/16	10/28/16
M3A07C-1000	A1-4125+00 to A1-4170+00, Clear & Grubb	5	10/24/16	10/28/16
RCBC & Irrigation Relocation		20	03/22/17	04/18/17



Remaining Level of Effort
Actual Work
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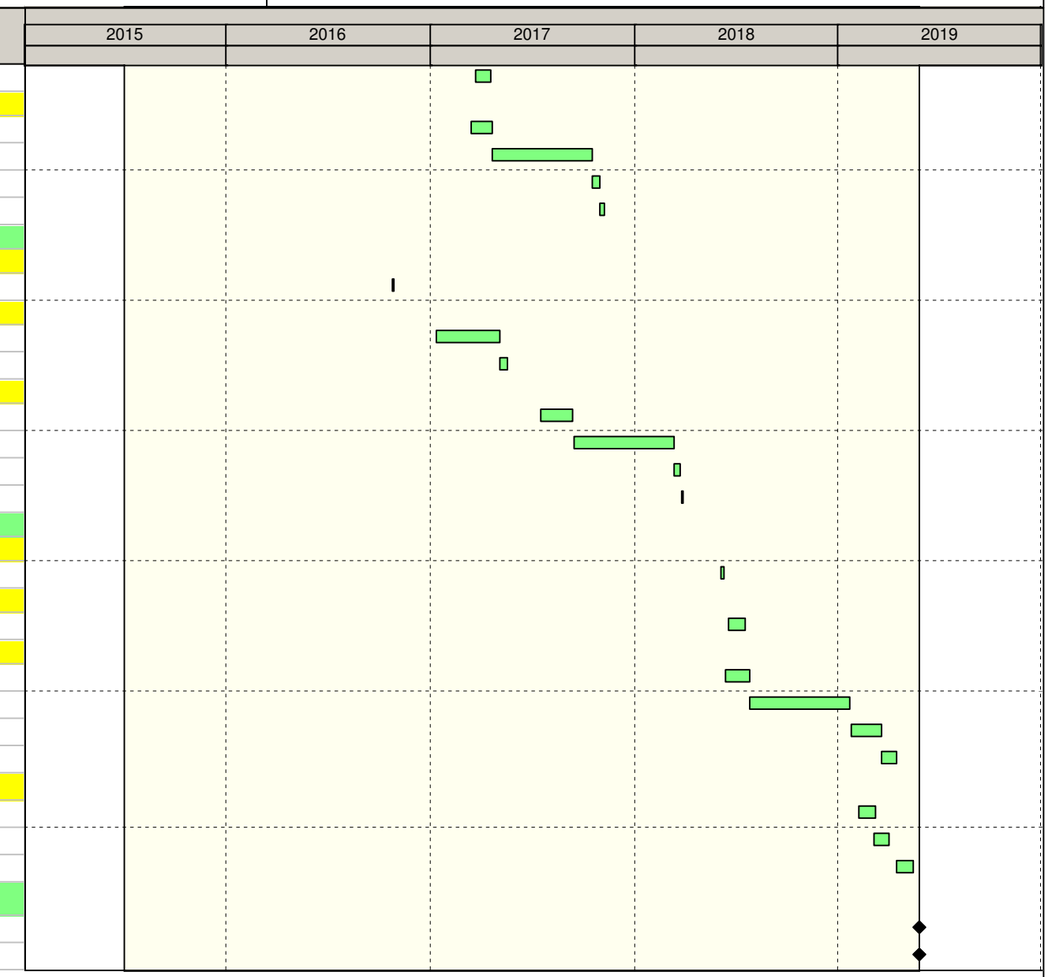
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

Detailed CPM Schedule

Activity ID	Activity Name	OD	Start	Finish
M3A07BC-110	Drainage @ A1-4129+00, Precast Drainage Culvert	20	03/22/17	04/18/17
Track		170	03/15/17	11/07/17
M3A07TE-110	A1-4125+00 to A1-4170+00, HST Track Common Fill	28	03/15/17	04/21/17
M3A07TE-120	A1-4125+00 to A1-4170+00, HST Track Common Fill, Surcharge Wait	180	04/22/17	10/18/17
M3A07TE-130	A1-4125+00 to A1-4170+00, HST Track Subgrade	9	10/19/17	10/31/17
M3A07TE-140	A1-4125+00 to A1-4170+00, HST Track AC	5	11/01/17	11/07/17
A1-4170+00 to A1-4240+00		375	10/24/16	03/30/18
Grubb and Demolition		5	10/24/16	10/28/16
M3A08C-1000	A1-4170+00 to A1-4240+00, Clear & Grubb	5	10/24/16	10/28/16
RCBC & Irrigation Relocation		90	01/11/17	05/18/17
M3A08BC-100	A1-4170+00 to A1-4240+00, CIP Irrigation Culvetrs & Canals	80	01/11/17	05/04/17
M3A08BC-110	A1-4170+00 to A1-4240+00, Precast Drainage Culverts	10	05/05/17	05/18/17
Track		184	07/18/17	03/30/18
M3A08TE-110	A1-4170+00 to A1-4240+00, HST Track Common Fill	41	07/18/17	09/13/17
M3A08TE-120	A1-4170+00 to A1-4240+00, HST Track Common Fill, Surcharge Wait	180	09/14/17	03/12/18
M3A08TE-130	A1-4170+00 to A1-4240+00, HST Track Subgrade	9	03/13/18	03/23/18
M3A08TE-140	A1-4170+00 to A1-4240+00, HST Track AC	5	03/26/18	03/30/18
A1-4275+00 to A1-4370+00		226	06/06/18	04/17/19
Grubb and Demolition		5	06/06/18	06/12/18
M3A10C-1000	A1-4275+00 to A1-4370+00, Clear & Grubb	5	06/06/18	06/12/18
RCBC & Irrigation Relocation		20	06/20/18	07/18/18
M3A10BC-110	A1-4275+00 to A1-4370+00, Precast Drainage Culverts	20	06/20/18	07/18/18
Track		221	06/13/18	04/17/19
M3A10TE-110	A1-4275+00 to A1-4370+00, HST Track Common Fill	32	06/13/18	07/27/18
M3A10TE-120	A1-4275+00 to A1-4370+00, HST Track Common Fill, Surcharge Wait	180	07/28/18	01/23/19
M3A10TE-130	A1-4275+00 to A1-4370+00, HST Track Subgrade	39	01/24/19	03/20/19
M3A10TE-140	A1-4275+00 to A1-4370+00, HST Track AC	20	03/21/19	04/17/19
Punchlist		68	02/08/19	05/15/19
M3P-PUNCH	Punchlist - Alignment P	20	02/08/19	03/08/19
M3C2-PUNCH	Punchlist - Alignment C2	20	03/08/19	04/04/19
M3A1-PUNCH	Punchlist - Alignment A1	20	04/18/19	05/15/19
Completion		0	05/28/19	05/28/19
PWC-0014	Contractor Acheives Substantial Completion	0		05/28/19
PWC-0018	Substantial Completion (5/28/19)	0		05/28/19*



Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

California High-Speed Rail Program
Construction Package 2-3
RFP No.: 13-57

DFS
CAHSR
Fresno to Bakersfield

CAHSR 2&3
Linear Schedule