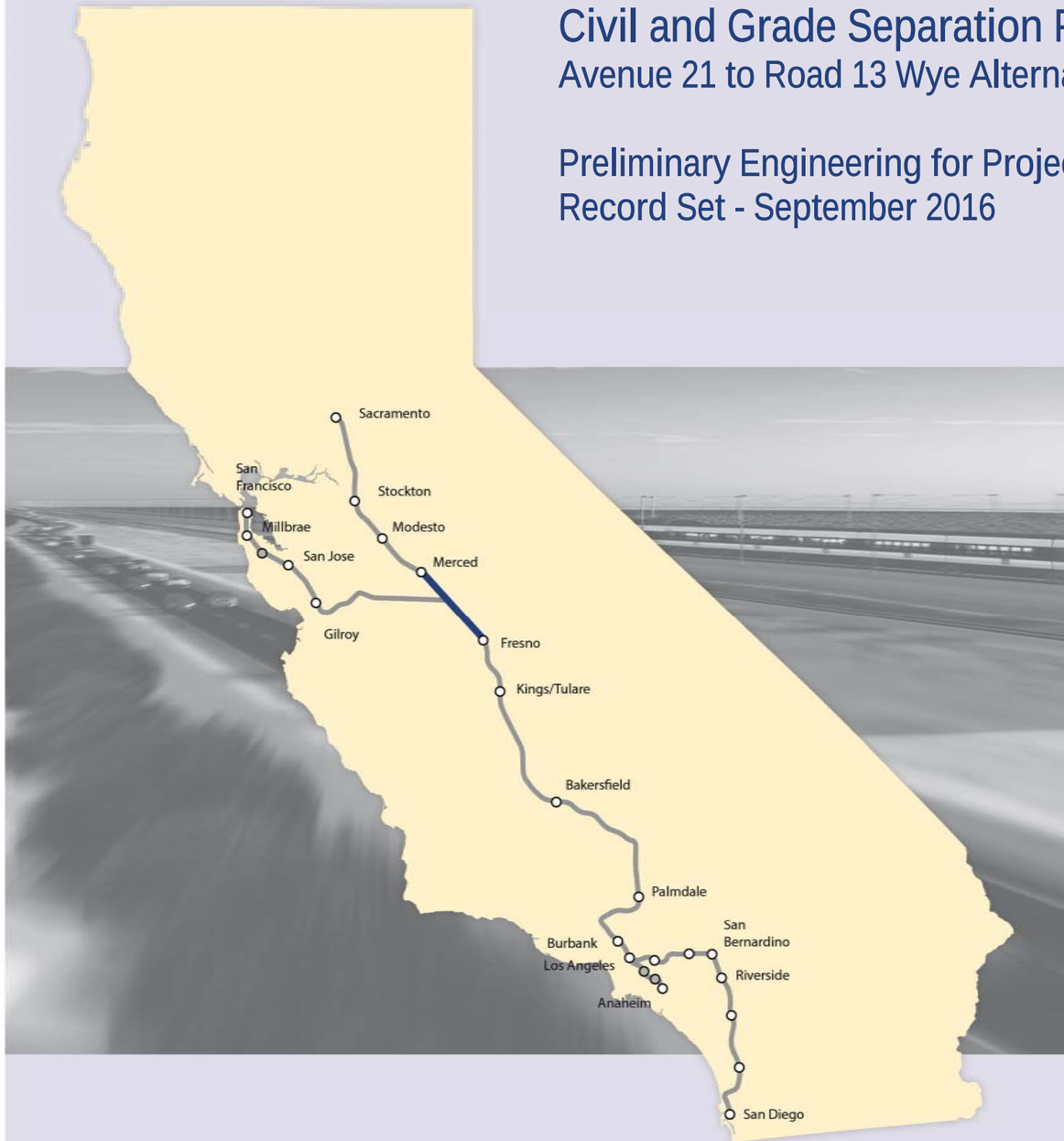
California High-Speed Rail Authority

# *Merced to Fresno Section: Central Valley Wye*




## Civil and Grade Separation Plans (Book 3 of 4)

Avenue 21 to Road 13 Wye Alternative

Preliminary Engineering for Project Definition
Record Set - September 2016

CALIFORNIA High-Speed Rail Authority

U.S. Department of Transportation
Federal Railroad Administration

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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 09/09/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
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SHEET NO.

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| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 09/09/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
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DRAWING NO. CV-B0003
SCALE NO SCALE
SHEET NO.

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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
INDEX OF DRAWINGS
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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 09/09/2016

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 09/09/2016

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
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| CV-S1430-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 14827+00 TO 14883+00 |
| CV-S1440-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 14883+00 TO 14939+00 |
| CV-S1450-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 14939+00 TO 14995+00 |
| CV-S1460-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 14995+00 TO 15051+00 |
| CV-S1470-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15051+00 TO 15107+00 |
| CV-S1471-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE ACCESS ROAD |
| CV-S1480-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15107+00 TO 15163+00 |
| CV-S1490-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15163+00 TO 15219+00 |
| CV-S1500-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15219+00 TO 15275+00 |
| CV-S1510-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15275+00 TO 15331+00 |
| CV-S1520-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15331+00 TO 15387+00 |
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| CV-S1540-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15443+00 TO 15499+00 |
| CV-S1550-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15499+00 TO 15555+00 |
| CV-S1560-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15555+00 TO 15611+00 |
| CV-S1570-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15611+00 TO 15655+00 |
| CV-S1610-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | SJD-MER STA 36570+00 TO 36626+00 |
| CV-S1620-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | SJD-MER STA 36626+00 TO 36682+00 |
| CV-S1630-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | SJD-MER STA 36682+00 TO 36738+00 |
| CV-S1640-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | SJD-MER STA 36738+00 TO 36794+00 |
| CV-S1650-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | CIVIL PLAN | SJD-MER STA 36794+00 TO 36850+00 |
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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 09/09/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
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| CV-R1107-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | PLAN AND PROFILE | SR 59/SR 152 WB ON RAMP GRADE SEPARATION |
| CV-R1108-B | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE | PLAN AND PROFILE | SR 59/SR 152 WB OFF RAMP GRADE SEPARATION |
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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 09/09/2016

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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
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# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
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| CV-S1020-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5394+00 TO 5450+00 |
| CV-S1030-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5450+00 TO 5506+00 |
| CV-S1031-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE ACCESS ROAD |
| CV-S1040-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5506+00 TO 5562+00 |
| CV-S1050-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5562+00 TO 5618+00 |
| CV-S1060-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5618+00 TO 5674+00 |
| CV-S1070-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5674+00 TO 5730+00 |
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| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 09/09/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
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| CV-S1110-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5898+00 TO 5954+00 |
| CV-S1120-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5954+00 TO 6010+00 |
| CV-S1121-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE ACCESS ROAD |
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| CV-S1210-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6458+00 TO 6514+00 |
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| CV-S1231-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE ACCESS ROAD |
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| CV-S1250-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6682+00 TO 6738+00 |
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| CV-S1261-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE ACCESS ROAD |
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| CV-S1280-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6850+00 TO 6906+00 |
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| CV-S1320-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 7074+00 TO 7130+00 |
| CV-S1330-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 7130+00 TO 7147+86.07 |
| CV-S1410-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 14840+00 TO 14896+00 |
| CV-S1420-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 14896+00 TO 14952+00 |
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| CV-S1470-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15176+00 TO 15232+00 |
| CV-S1480-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15232+00 TO 15288+00 |
| CV-S1490-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15288+00 TO 15344+00 |
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| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 09/09/2016

**RECORD SET**
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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
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CONTRACT NO. HSR08-05
DRAWING NO. CV-B0012
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| CV-S1540-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15568+00 TO 15624+00 |
| CV-S1550-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15624+00 TO 15655+00 |
| CV-S1610-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-MER STA 36268+00 TO 36324+00 |
| CV-S1620-C | CENTRAL VALLEY WYE | AVENUE 21 TO ROAD 13 WYE ALTERNATIVE | CIVIL PLAN | SJD-MER STA 36324+00 TO 36380+00 |
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| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 09/09/2016

**RECORD SET**
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PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
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CONTRACT NO. HSR08-05
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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 09/09/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY


# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
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CONTRACT NO. HSR08-05
DRAWING NO. CV-B0014
SCALE NO SCALE
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| CV-S1010-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5338+00 TO 5394+00 |
| CV-S1020-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5394+00 TO 5450+00 |
| CV-S1030-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5450+00 TO 5506+00 |
| CV-S1040-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5506+00 TO 5562+00 |
| CV-S1050-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5562+00 TO 5618+00 |
| CV-S1060-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5618+00 TO 5674+00 |
| CV-S1070-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5674+00 TO 5730+00 |
| CV-S1080-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5730+00 TO 5786+00 |
| CV-S1090-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5786+00 TO 5842+00 |
| CV-S1100-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5842+00 TO 5898+00 |
| CV-S1110-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5898+00 TO 5954+00 |
| CV-S1120-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 5954+00 TO 6010+00 |
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| CV-S1140-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6066+00 TO 6122+00 |
| CV-S1150-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6122+00 TO 6178+00 |
| CV-S1160-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6178+00 TO 6234+00 |
| CV-S1170-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6234+00 TO 6290+00 |
| CV-S1180-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6290+00 TO 6346+00 |
| CV-S1190-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6346+00 TO 6402+00 |
| CV-S1200-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6402+00 TO 6458+00 |
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| CV-S1220-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6514+00 TO 6570+00 |
| CV-S1230-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6570+00 TO 6626+00 |
| CV-S1240-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6626+00 TO 6682+00 |
| CV-S1241-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE ACCESS ROAD |
| CV-S1250-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6682+00 TO 6738+00 |
| CV-S1260-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6738+00 TO 6794+00 |
| CV-S1270-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6794+00 TO 6850+00 |
| CV-S1280-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6850+00 TO 6906+00 |
| CV-S1290-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 6906+00 TO 6962+00 |
| CV-S1291-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE ACCESS ROAD |
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| CV-S1310-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 7018+00 TO 7074+00 |
| CV-S1320-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 7074+00 TO 7130+00 |
| CV-S1330-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-FRE STA 7130+00 TO 7170+94.51 |
| CV-S1410-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15009+29.27 TO 15052+00 |
| CV-S1420-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15052+00 TO 15108+00 |
| CV-S1430-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15108+00 TO 15164+00 |
| CV-S1440-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15164+00 TO 15220+00 |
| CV-S1441-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE ACCESS ROAD |

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CENTRAL VALLEY WYE
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| CV-S1460-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15276+00 TO 15332+00 |
| CV-S1470-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15332+00 TO 15388+00 |
| CV-S1480-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15388+00 TO 15444+00 |
| CV-S1490-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15444+00 TO 15500+00 |
| CV-S1500-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15500+00 TO 15556+00 |
| CV-S1510-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | MER-FRE STA 15556+00 TO 15612+00 |
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| CV-S1620-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-MER STA 36184+00 TO 36240+00 |
| CV-S1630-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-MER STA 36240+00 TO 36296+00 |
| CV-S1640-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-MER STA 36296+00 TO 36352+00 |
| CV-S1650-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-MER STA 36352+00 TO 36408+00 |
| CV-S1660-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | CIVIL PLAN | SJD-MER STA 36408+00 TO 36457+64.63 |
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| CV-R1031-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | HENRY MILLER ROAD REALIGNMENT |
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| CV-R1050-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | INDIANA ROAD GRADE SEPARATION |
| CV-R1051-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | INDIANA ROAD GRADE SEPARATION |
| CV-R1090-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | COYOTE ROAD REALIGNMENT |
| CV-R1091-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | COYOTE ROAD REALIGNMENT |
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| CV-R1112-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | ROAD 4/LINCOLN ROAD GRADE SEPARATION |
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**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
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| CV-R1260-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | ROAD 20 GRADE SEPARATION |
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|---|---|---|---|---|
| DRAWING NO. | SECTION | ALIGNMENT / PLAN SET | TITLE | DESCRIPTION |
| CV-R1281-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | ROAD 22 GRADE SEPARATION |
| CV-R1290-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | AVENUE 22 REALIGNMENT |
| CV-R1310-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | ROAD 24 REALIGNMENT |
| CV-R1311-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | ROAD 24 REALIGNMENT |
| CV-R1312-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | ROAD 24 REALIGNMENT |
| CV-R1313-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | AVENUE 20 1/2 GRADE SEPARATION |
| CV-R1314-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | AVENUE 20 1/2 GRADE SEPARATION |
| CV-R1320-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | AVENUE 20 REALIGNMENT |
| CV-R1321-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | AVENUE 20 REALIGNMENT |
| CV-R1450-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | AVENUE 25 GRADE SEPARATION |
| CV-R1451-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | AVENUE 25 GRADE SEPARATION |
| CV-R1490-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | ATHLONE ROAD REALIGNMENT |
| CV-R1491-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | ATHLONE ROAD REALIGNMENT |
| CV-R1630-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | ROAD 10 REALIGNMENT |
| CV-R1631-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | ROAD 10 REALIGNMENT |
| CV-R1632-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | AVENUE 23 1/2 GRADE SEPARATION |
| CV-R1633-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | AVENUE 23 1/2 GRADE SEPARATION |
| CV-R1650-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | ROAD 11 REALIGNMENT |
| CV-R1651-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | PLAN AND PROFILE | ROAD 11 REALIGNMENT |
| CV-I0001-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | GENERAL NOTES |
| CV-I4100-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | SR 59/SR 152 STAGE 1 OF 4 |
| CV-I4101-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | SR 59/SR 152 STAGE 2 OF 4 |
| CV-I4102-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | SR 59/SR 152 STAGE 3 OF 4 |
| CV-I4103-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | SR 59/SR 152 STAGE 4 OF 4 |
| CV-I4160-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | ROAD 9/SR 152 STAGE 1 OF 4 |
| CV-I4161-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | ROAD 9/SR 152 STAGE 2 OF 4 |
| CV-I4162-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | ROAD 9/SR 152 STAGE 3 OF 4 |
| CV-I4163-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | ROAD 9/SR 152 STAGE 4 OF 4 |
| CV-I4210-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | SR 233/SR 152 STAGE 1 OF 5 |
| CV-I4211-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | SR 233/SR 152 STAGE 2 OF 5 |
| CV-I4212-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | SR 233/SR 152 STAGE 3 OF 5 |
| CV-I4213-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | SR 233/SR 152 STAGE 4 OF 5 |
| CV-I4214-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | SR 233/SR 152 STAGE 5 OF 5 |
| CV-I4230-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | ROAD 16/SR 152 STAGE 1 OF 4 |
| CV-I4231-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | ROAD 16/SR 152 STAGE 2 OF 4 |
| CV-I4232-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | ROAD 16/SR 152 STAGE 3 OF 4 |
| CV-I4233-D | CENTRAL VALLEY WYE | SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE | STAGE CONSTRUCTION PLAN | ROAD 16/SR 152 STAGE 4 OF 4 |

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| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 09/09/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
INDEX OF DRAWINGS
SHEET 17 OF 17

CONTRACT NO. HSR08-05
DRAWING NO. CV-B0018
SCALE NO SCALE
SHEET NO.

## A

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

## B

| | |
|---|---|
| BAGR | BRIDGE APPROACH GUARD RAILING |
| BB | BEGINNING OF BRIDGE |
| B-B | BACK-TO-BACK |
| BC | BEGIN HORIZONTAL CURVE |
| BCR | BEGIN CURB RETURN |
| BEG | BEGIN |
| BIT CTD | BITUMINOUS COATED |
| BK | BACK |
| BKF | BACKFILL |
| BLDG | BUILDING |
| BLM | BRIDGE-LOG MILE |
| BLVD | BOULEVARD |
| BM | BENCH MARK |
| BOT | BOTTOM |
| BNSF | BNSF RAILWAY |
| BR | BRIDGE |
| BRG | BEARING |
| BT | BEGIN TUNNEL |
| BTU | BRITISH THERMAL UNIT |
| BVC | BEGIN VERTICAL CURVE |
| BW | BARBED WIRE |

## C

| | |
|---|---|
| CAA | CABLE ANCHOR ASSEMBLY |
| CAP | CORRUGATED ALUMINUM PIPE |
| CAPA | CORRUGATED ALUMINUM PIPE ARCH |
| CAS | CONSTRUCTION AREA SIGN |
| CB | CONCRETE BARRIER |
| CBW | CONCRETE BLOCK WALL |
| C-C | CENTER TO CENTER |
| CHSRA | CALIFORNIA HIGH-SPEED RAIL AUTHORITY (SEE AUTHORITY) |
| CHSR | CALIFORNIA HIGH-SPEED RAIL |
| CHST | CALIFORNIA HIGH-SPEED TRAIN |
| CG | CENTER OF GRAVITY |
| CHNL | CHANNEL |
| CI | CAST IRON |
| CIDH | CAST-IN-DRILLED-HOLE |
| CIP | CAST-IN-PLACE, CAST IRON PIPE |
| CIPCP | CAST-IN-PLACE CONCRETE PIPE |
| CISS | CAST-IN-STEEL SHELL |
| CJP | COMPLETE JOINT PENETRATION |
| CL | CHAIN LINK, CLASS |
| CL-6 | CHAIN LINK FENCE (6 FT) |
| CLR | CLEAR, CLEARANCE |
| CM | CORRUGATED METAL |
| CMP | CORRUGATED METAL PIPE |
| CO | COUNTY |
| COL | COLUMN |
| CONC | CONCRETE |
| COND | CONDUIT |
| CONN | CONNECTOR |
| CONST | CONSTRUCT, CONSTRUCTION |
| CONT | CONTINUOUS |
| COORD | COORDINATE |
| CP | CANDLEPOWER |
| CP1 | CONSTRUCTION PACKAGE 1 |
| CR | CREEK |
| CRCP | CONTINUOUS REINFORCED CONCRETE PAVEMENT |
| CRSP | CONCRETED ROCK SLOPE PROTECTION |
| CRZ | CLEAR RECOVERY ZONE |
| CS | CURVE SPIRAL POINT |
| CSP | CORRUGATED STEEL PIPE |
| CSPA | CORRUGATED STEEL PIPE ARCH |
| CTB | CEMENT TREATED BASE |
| CTPB | CEMENT TREATED PERMEABLE BASE |
| CTPM | CEMENT TREATED PERMEABLE MATERIAL |
| CTRS | CENTERS |
| CULV | CULVERT |
| ℄ | CENTERLINE |

## D

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

## E

| | |
|---|---|
| E | EAST |
| EA | ACTUAL SUPERELEVATION |
| EASE | EASEMENT |
| EB | END OF BRIDGE, EASTBOUND |
| EC | END HORIZONTAL CURVE |
| ECR | END CURB RETURN |
| ED | EDGE DRAIN |
| EDC | EDGE DRAIN CLEANOUT |
| EDO | EDGE DRAIN OUTLET |
| EDV | EDGE DRAIN VENT |
| ELEC | ELECTROLIER |
| ELECT | ELECTRIC |
| ELEV | ELEVATION |
| EMB | EMBANKMENT |
| ENGR | ENGINEER |
| EOD | EDGE OF DECK |
| EP | EDGE OF PAVEMENT |
| EQ | EQUATION |
| ES | EDGE OF SHOULDER |
| ET | END TUNNEL |
| ETW | EDGE OF TRAVELED WAY |
| EU | UNBALANCED SUPERELEVATION |
| EVC | END VERTICAL CURVE |
| EW | ENDWALL |
| EXC | EXCAVATION |
| EXIST, (E) | EXISTING |
| EXP | EXPANSION, EXPRESSWAY |
| EXP JT | EXPANSION JOINT |
| EXT | EXTERIOR |

## F

| | |
|---|---|
| F & C | FRAME AND COVER |
| F & G | FRAME AND GRATE |
| FB | FLOOR BEAM |
| FDN | FOUNDATION |
| FEBT | FACING EASTBOUND TRAFFIC |
| FES | FLARED END SECTION |
| FF | FILTER FABRIC |
| FG | FINISHED GRADE |
| FH | FIRE HYDRANT |
| FIG | FIGURE |
| FL | FLOW LINE |
| FNTB | FACING NORTHBOUND TRAFFIC |
| FOB | FREE ON BOARD |
| FOC | FACE OF CONCRETE |
| FR RD | FRONTAGE ROAD |
| FRE | FRESNO |
| FS | FAR SIDE, FINISHED SURFACE |
| FSBT | FACING SOUTHBOUND TRAFFIC |
| FTG | FOOTING |
| FWBT | FACING WESTBOUND TRAFFIC |
| FWY | FREEWAY |

## G

| | |
|---|---|
| G | GRADE, ACCELERATION DUE TO GRAVITY |
| GA | GAGE |
| GALV | GALVANIZED |
| GP | GRADING PLANE |
| GR | GUARD RAILING |
| GRDR | GIRDER |
| GSP | GALVANIZED STEEL PIPE |
| GTR | GUTTER |

## H

| | |
|---|---|
| H | HEIGHT |
| H, HR | HOUR |
| HD | HORIZONTAL DRAIN |
| HDWL | HEADWALL |
| HEX HD | HEXAGONAL HEAD |
| HMA | HOT MIXED ASPHALT |
| HORIZ | HORIZONTAL |
| HP | HINGE POINT, HORSEPOWER |
| HPS | HIGH PERFORMANCE STEEL |
| HS | HIGH STRENGTH |
| HSR | HIGH-SPEED RAIL |
| HST | HIGH-SPEED TRAIN |
| HW | HEADWALL, 100-YR HIGH WATER (UNLESS NOTED OTHERWISE) |
| HWM | HIGH WATER MARK |
| HWY | HIGHWAY |

## I

| | |
|---|---|
| IB | IMPORTED BORROW |
| ID | INSIDE DIAMETER |
| IF | INSIDE FACE |
| INT | INTERIOR |
| INV | INVERT |
| IRR | IRRIGATION |
| IS | INTERLOCKING SITE |

## J

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

## L

| | |
|---|---|
| L | LENGTH |
| LAT | LATITUDE |
| LCB | LEAN CONCRETE BASE |
| LLT | LAST LONG TIE |
| LN | LANE |
| LOC | LOCATION |
| LOL | LAYOUT LINE |
| LONG | LONGITUDE |
| LONGIT | LONGITUDINAL |
| LS | LUMP SUM, LENGTH OF SPIRAL |
| LT | LEFT |
| LVC | LENGTH OF VERTICAL CURVE |

## M

| | |
|---|---|
| MAINT | MAINTENANCE |
| MAX | MAXIMUM |
| MB | METAL BEAM |
| MBB | METAL BEAM BARRIER |
| MBGR | METAL BEAM GUARD RAILING |
| MED | MEDIAN |
| MER | MERCED |
| MF | MERCED TO FRESNO |
| MH | MANHOLE |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MISC I & S | MISCELLANEOUS IRON AND STEEL |
| MKR | MARKER |
| MOD | MODIFIED, MODIFY |
| MON | MONUMENT |
| MOW | MAINTENANCE-OF-WAY FACILITY |
| MP | METAL PLATE |
| MPGR | METAL PLATE GUARD RAILING |
| MPH | MILES PER HOUR |
| MR | MOVEMENT RATING |
| MSE | MECHANICALLY STABILIZED EARTH |
| MTL | MATERIAL |

## N

| | |
|---|---|
| N | NORTH |
| NB | NORTHBOUND |
| NC | NORMAL CROWN |
| NIC | NOT IN CONTRACT |
| NO. | NUMBER (MUST HAVE PERIOD) |
| NOS. | NUMBERS (MUST HAVE PERIOD) |
| NPS | NOMINAL PIPE SIZE |
| NS | NEAR SIDE |
| NTS | NOT TO SCALE |

## O

| | |
|---|---|
| OBLR | OBLITERATE |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 08/12/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
ABBREVIATIONS
SHEET 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. CV-B0020
SCALE NO SCALE
SHEET NO.

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## O CONTINUED

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

## P

| | |
|---|---|
| P | PAGE |
| PAP | PERFORATED ALUMINUM PIPE |
| PB | PULL BOX, PHASE BREAK |
| PC | POINT OF CURVATURE, PRECAST |
| PCC | POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE |
| PCP | PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE |
| PCVC | POINT OF COMPOUND VERTICAL CURVE |
| PED | PEDESTRIAN |
| PED OC | PEDESTRIAN OVERCROSSING |
| PED UC | PEDESTRIAN UNDERCROSSING |
| PERM MTL | PERMEABLE MATERIAL |
| PG | PROFILE GRADE |
| PG&E | PACIFIC GAS AND ELECTRIC |
| PI | POINT OF INTERSECTION |
| PITO | POINT OF INTERSECTION TURNOUT |
| PJP | PARTIAL JOINT PENETRATION |
| ℄, PL | PLATE |
| P/L | PROPERTY LINE |
| PM | POST MILE, TIME FROM NOON TO MIDNIGHT |
| PN | PAVING NOTCH |
| POB | POINT OF BEGINNING |
| POC | POINT OF HORIZONTAL CURVE |
| POE | POINT OF END |
| POT | POINT OF TANGENT |
| POVC | POINT OF VERTICAL CURVE |
| PP | PIPE PILE, PLASTIC PIPE, POWER POLE |
| PPL | PREFORMED PERMEABLE LINER |
| PPP | PERFORATED PLASTIC PIPE |
| PRC | POINT OF REVERSE CURVE |
| PRF | PAVEMENT REINFORCING FABRIC |
| PRVC | POINT OF REVERSE VERTICAL CURVE |
| PS&E | PLANS, SPECIFICATIONS AND ESTIMATES |
| PS, P/S | POINT OF SWITCH, PRESTRESSED, PARALLELING STATION |
| PSP | PERFORATED STEEL PIPE |
| PT | POINT OF TANGENCY |
| PVC | POLYVINYL CHLORIDE, POINT OF VERTICAL CURVE |
| PVI | POINT OF VERTICAL INTERSECTION |
| PVMT | PAVEMENT |
| PVT | POINT OF VERTICAL TANGENT |

## P CONTINUED

## Q

| | |
|---|---|
| QTY | QUANTITY |

## R

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

## S

| | |
|---|---|
| S | SOUTH, SUPPLEMENT |
| SAE | STRUCTURE APPROACH EMBANKMENT |
| SALV | SALVAGE |
| SAPP | STRUCTURAL ALUMINUM PLATE PIPE |
| SB | SOUTHBOUND |
| SC | SAND CUSHION, SPIRAL CURVE POINT |
| SCSP | SLOTTED CORRUGATED STEEL PIPE |
| SD | STORM DRAIN |
| SEC | SECOND, SECTION |
| SEP | SEPARATION |
| SG | SUBGRADE |
| SHLD | SHOULDER |
| SHT | SHEET |
| SIM | SIMILAR |
| SJD | SAN JOSE DIRIDON STATION |
| SJM | SAN JOSE TO MERCED |
| SJV | SAN JOAQUIN VALLEY |
| S | STATION LINE |
| SM | SELECTED MATERIAL |
| SPEC | SPECIAL, SPECIFICATIONS |
| SPP | SLOTTED PLASTIC PIPE |
| SR | STATE ROUTE |
| SRS | STANDALONE RADIO SITE |
| SS | SLOPE STAKE, SUBSTATION |
| SSBM | STRAP AND SADDLE BRACKET METHOD |
| SSD | STRUCTURAL SECTION DRAIN |
| SSPA | STRUCTURAL STEEL PLATE ARCH |
| SSPP | STRUCTURAL STEEL PLATE PIPE |
| SSPPA | STRUCTURAL STEEL PLATE PIPE ARCH |
| SSRP | STEEL SPIRAL RIB PIPE |
| ST | STREET, SPIRAL TANGENT POINT |
| STA | STATION |
| STBB | SINGLE THRIE BEAM BARRIER |
| STD | STANDARD |
| STR | STRUCTURE |
| SURF | SURFACING |
| SW | SIDEWALK, SOUND WALL |
| SWR | SEWER |
| SWS | SWITCHING STATION |
| SYM | SYMMETRICAL |
| S4S | SURFACE 4 SIDES |

## S CONTINUED

## T

| | |
|---|---|
| T | SEMI-TANGENT |
| TAB | TABLET |
| TAN | TANGENT |
| TBB | THRIE BEAM BARRIER |
| TBD | TO BE DETERMINED |
| TBR | TIMBER |
| TC | TOP OF CURB, TRAIN CONTROL |
| TCB | TRAFFIC CONTROL BOX |
| TCE | TEMPORARY CONSTRUCTION EASEMENT |
| TEL | TELEPHONE |
| TEMP | TEMPORARY |
| TG | TOP OF GRADE |
| TM | TECHNICAL MEMORANDUM |
| TO | TURNOUT |
| TOT | TOTAL |
| TP | TELEPHONE POLE |
| TPB | TREATED PERMEABLE BASE |
| TPF | TRACTION POWER FACILITY |
| TPM | TREATED PERMEABLE MATERIAL |
| TPSS | TRACTION POWER SUBSTATION |
| T/R | TOP OF RAIL |
| TRANS | TRANSITION |
| TRK | TRACK |

## T CONTINUED

| | |
|---|---|
| TS | TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL, TANGENT SPIRAL POINT |
| TYP | TYPICAL |

## U

| | |
|---|---|
| UC | UNDERCROSSING |
| UD | UNDERDRAIN |
| UON | UNLESS OTHERWISE NOTED |
| UP | UNDERPASS |
| UPRR | UNION PACIFIC RAILROAD |
| UXO | UNIVERSAL CROSSOVER |

## V

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

## W

| | |
|---|---|
| W | WEST, WIDTH |
| WB | WESTBOUND |
| WCB | WORLD COORDINATE BEARING |
| WH | WEEP HOLE |
| WM | WIRE MESH |
| WS | WATER SURFACE |
| WSP | WELDED STEEL PIPE |
| WT | WEIGHT |
| WV | WATER VALVE |
| WW | WINGWALL |
| WWLOL | WINGWALL LAYOUT LINE |

## X

| | |
|---|---|
| X SEC | CROSS SECTION |
| XING | CROSSING |
| XO | CROSSOVER |

## Y

| | |
|---|---|
| YR | YEAR |
| YRS | YEARS |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 08/12/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

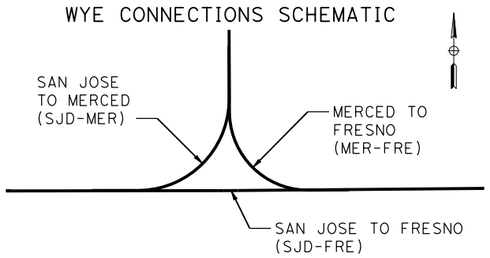
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

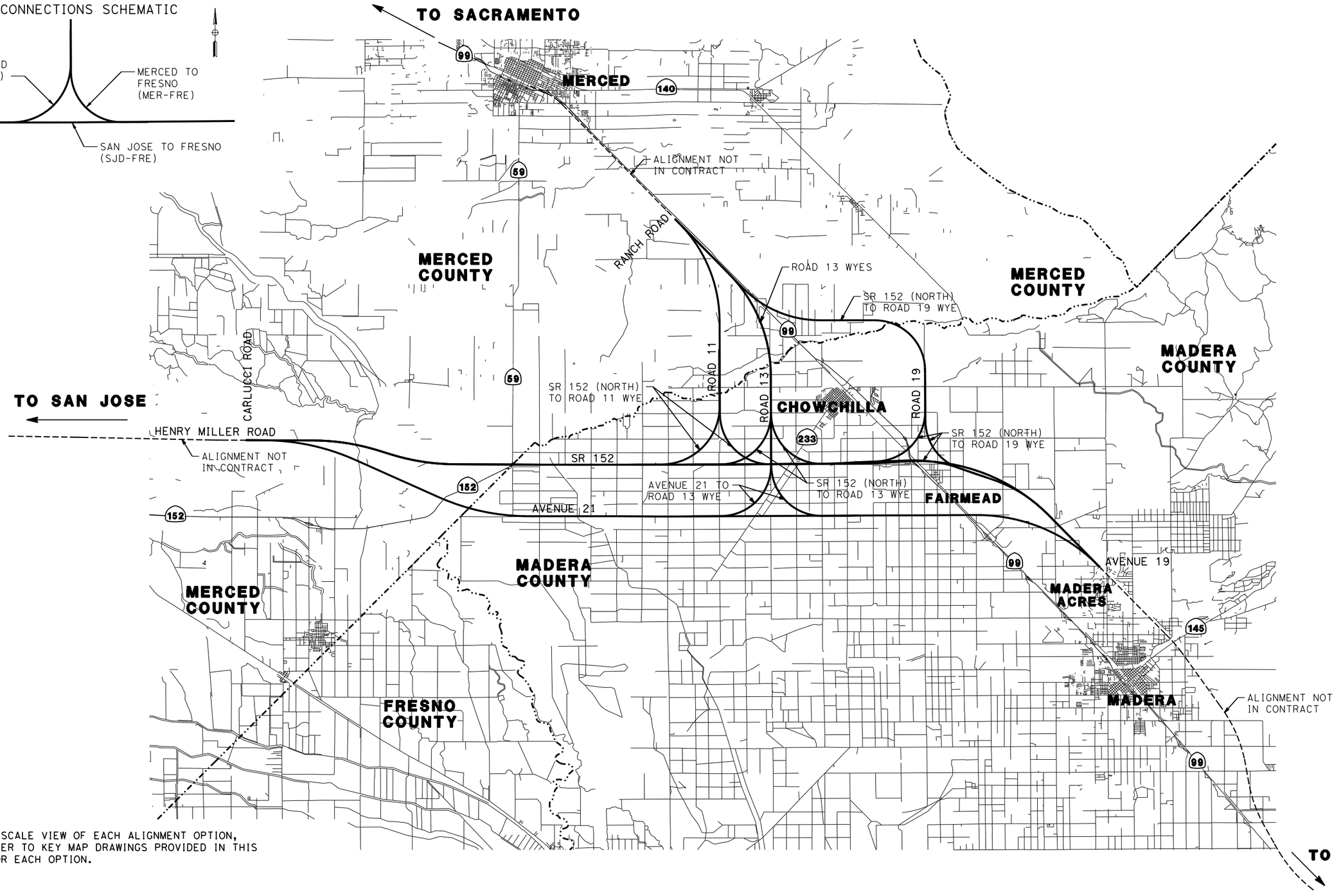
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
ABBREVIATIONS
SHEET 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. CV-B0021
SCALE NO SCALE
SHEET NO.

09-AUG-2016 08:56
MF-CV-B0021.dgn
p0042226




NOTE:

FOR LARGE SCALE VIEW OF EACH ALIGNMENT OPTION, PLEASE REFER TO KEY MAP DRAWINGS PROVIDED IN THIS PACKAGE FOR EACH OPTION.

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY: S. WELLS
DRAWN BY: W. JOHNSEN
CHECKED BY: J. RAY
IN CHARGE: C. LEMLEY
DATE: 08/12/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
LOCATION PLAN

CONTRACT NO. HSR08-05
DRAWING NO. CV-B4000
SCALE NTS
SHEET NO.

09-AUG-2016 08:56
MF-CV-B4000.dgn
p0042226

## GENERAL NOTES:

1. DESIGN IS BASED ON THE FOLLOWING STANDARDS:
   - CALIFORNIA HIGH-SPEED RAIL AUTHORITY DIRECTIVE DRAWINGS FOR HIGH-SPEED RAIL PROJECT FACILITIES
   - CALTRANS HIGHWAY DESIGN MANUAL FOR STATE HIGHWAY FACILITIES
   - LOCAL AGENCY STANDARDS FOR ALL OTHER FACILITIES

2. THE HORIZONTAL CONTROL DATUM IS NAD 83. ALL ELEVATIONS ARE BASED ON NAVD 88.

3. ALL MAJOR UTILITIES ARE SHOWN ON THE PLANS. PLEASE REFERENCE THE SECTION UTILITY REPORT FOR A DISCUSSION OF HIGH VS. LOW RISK AND MINOR UTILITIES.

4. RETAINING WALL TYPES ARE NOT SHOWN DUE TO CURRENT LACK OF GEOTECHNICAL BORINGS. IT CAN BE ASSUMED FOR COST PURPOSES THAT ALL FILL RETAINING WALLS ARE MSE AND THAT ALL CUT RETAINING WALLS ARE SOIL NAIL. PRELIMINARY RETAINING WALL TYPES WILL BE FINALIZED BASED ON SUBSEQUENT GEOTECHNICAL EXPLORATION.

5. MAJOR WATERCOURSES, IRRIGATION CANALS, AND BODIES OF WATER ARE SHOWN ON THE PLANS. FOR FURTHER INFORMATION REGARDING DRAINAGE DESIGN, PLEASE REFER TO THE FOLLOWING:
   - HYDROLOGY AND HYDRAULICS REPORT
   - FLOODPLAIN IMPACTS ASSESSMENT REPORT
   - STORM WATER MANAGEMENT REPORT
   - STRUCTURE, VIADUCT AND TUNNEL PLANS (FOR FLOW DIRECTION)

6. WHERE PROPOSED ROADWAY R/W AND ROADWAY TCE LINES CROSS PERPENDICULAR TO EXISTING ROADWAY R/W LINES, IT IS ASSUMED THESE LINES SHOW A DEMARCATION OF CONSTRUCTION LIMITS. THEY ARE NOT INTENDED TO BE CONSTRUED AS A JURISDICTIONAL TRANSFER.

7. EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES.

8. CUL-DE-SACS WERE DESIGNED BASED ON MERCED COUNTY STANDARD (ST-12).

9. METAL BEAM GUARD RAILING WAS DESIGNED PER CALTRANS STANDARD PLANS (A77) AND AASHTO ROADSIDE DESIGN GUIDE (TABLE 5-10).

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY S. WELLS
DRAWN BY W. JOHNSEN
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 08/12/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

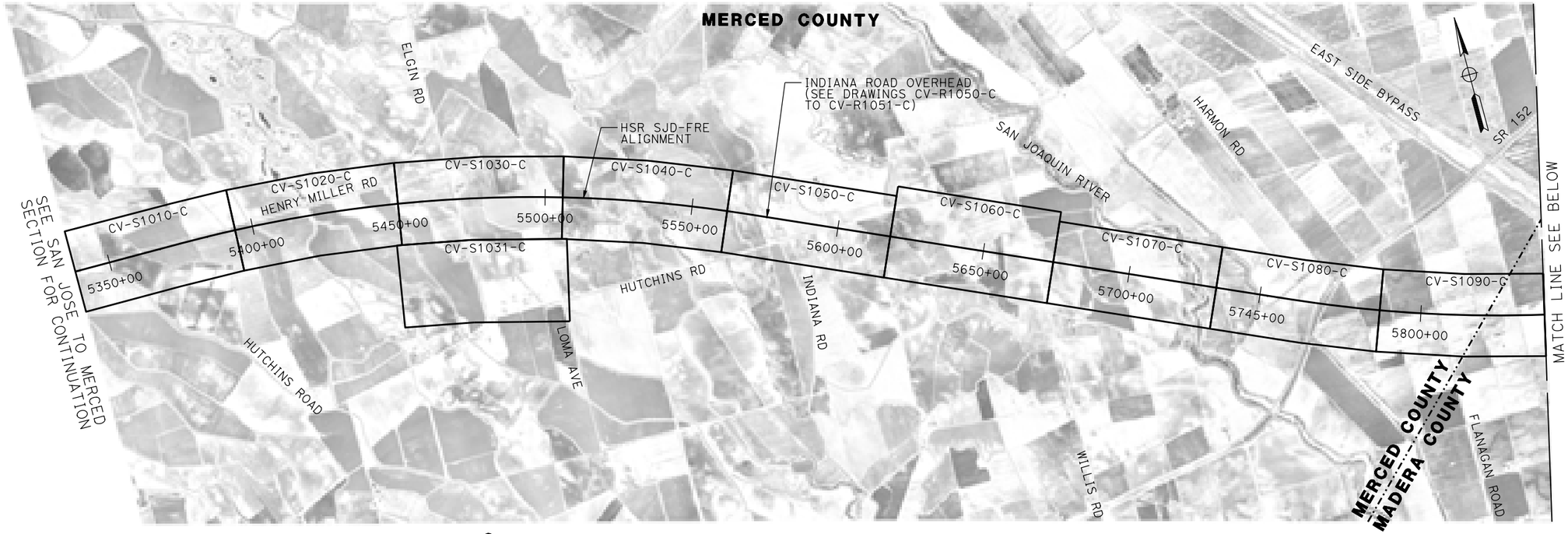
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

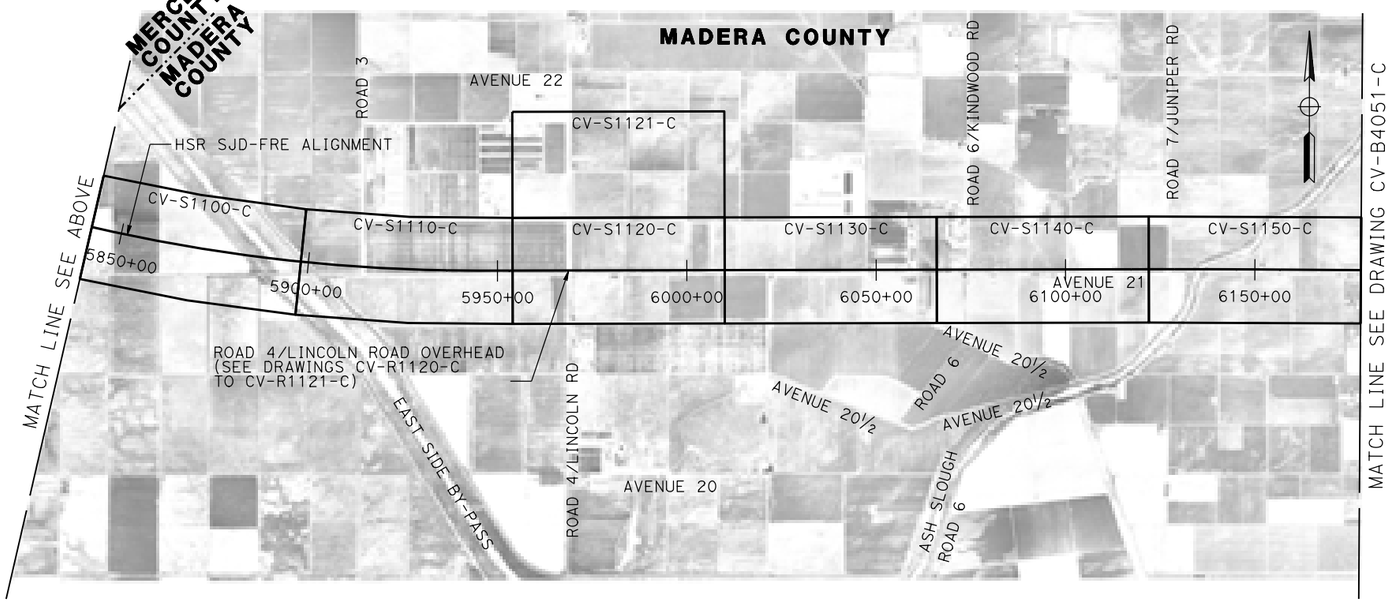
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
CIVIL AND GRADE SEPARATION PLANS
GENERAL NOTES

CONTRACT NO. HSR08-05
DRAWING NO. CV-B0030
SCALE NO SCALE
SHEET NO.

09-AUG-2016 08:56 MF-CV-B0030.dgn p0042226




| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

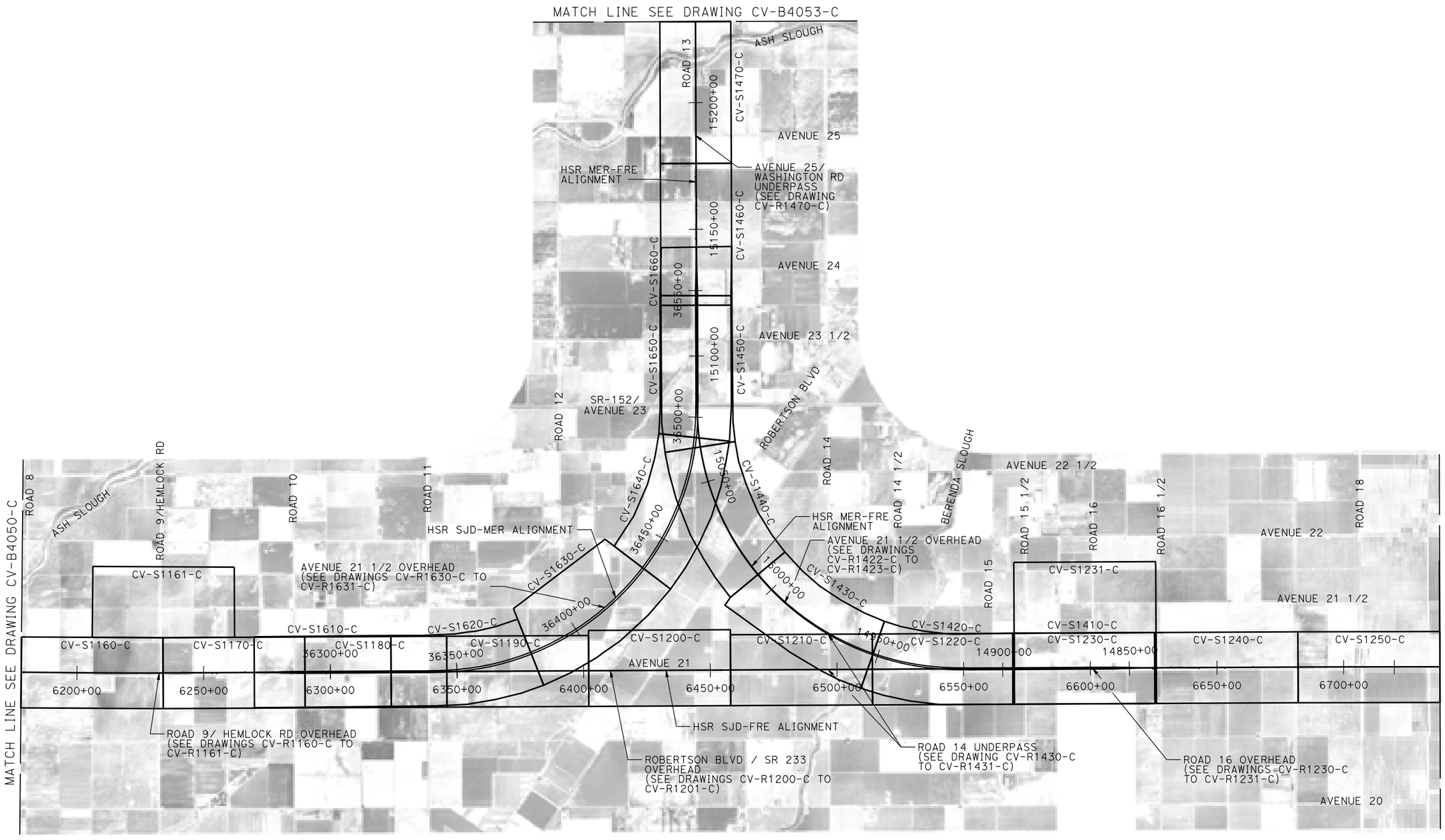
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
KEY MAP
SHEET 1 OF 4

CONTRACT NO. HSR08-05
DRAWING NO. CV-B4050-C
SCALE NTS
SHEET NO.

18-MAR-2016 13:45 MF-CV-B4050-C.dgn
p0051133A

**MADERA COUNTY**




| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: J. RAY
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
KEY MAP
SHEET 2 OF 4

CONTRACT NO. HSR08-05
DRAWING NO. CV-B4051-C
SCALE NTS
SHEET NO.

09-MAR-2016 8:04 MF-CV-B4051-C.dgn p0051334

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

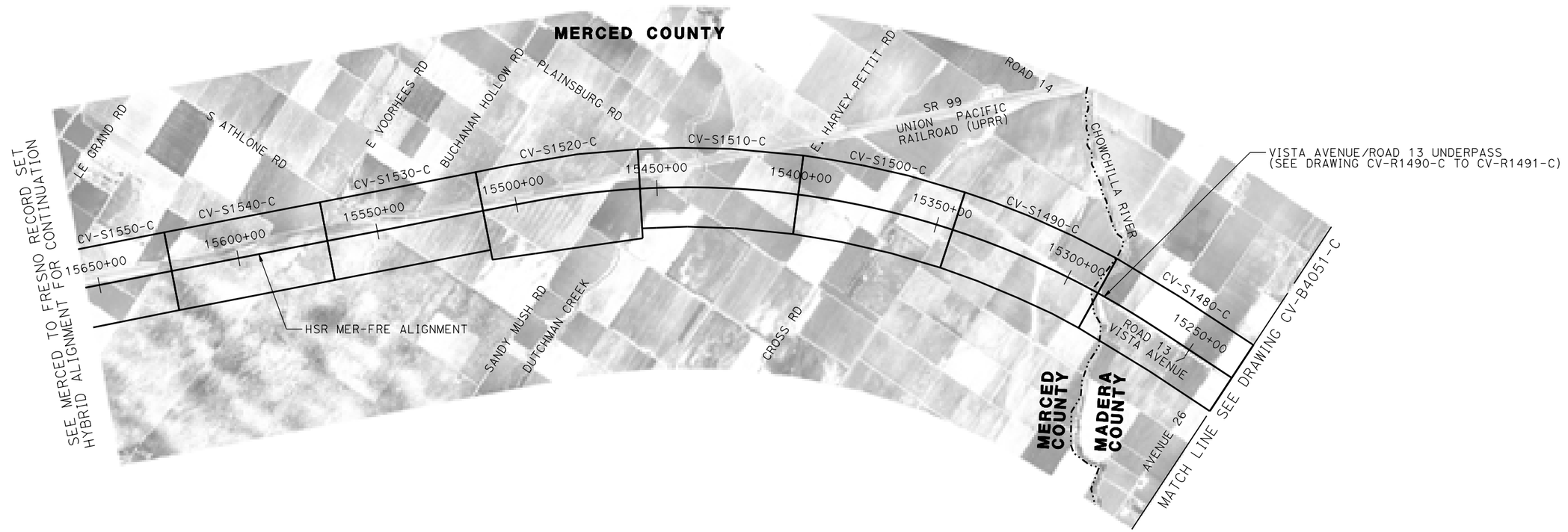
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
KEY MAP
SHEET 3 OF 4

CONTRACT NO. HSR08-05
DRAWING NO. CV-B4052-C
SCALE NTS
SHEET NO.

MF-CV-B4052-C.dgn
17-MAR-2016 06:34
p0042226




| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: J. RAY
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
KEY MAP
SHEET 4 OF 4

CONTRACT NO. HSR08-05
DRAWING NO. CV-B4053-C
SCALE NTS
SHEET NO.

09-MAR-2016 8:05
MF-CV-B4053-C.dgn
p005133A

| ROAD "ALIGNMENT NAME" | CURVE NO. | | BC | PI | CC | EC | RADIUS (FT) | DELTA △ | DEGREE OF CURVATURE (ARC) | LENGTH (FT) | TANGENT (FT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HENRY MILLER ROAD "HENRY MILLER RD" LINE | 030-01 | STATION | 101+82.49 | 104+30.79 | | 106+73.61 | 1,350.00 | 20°50'37" | 4°14'39" | 491.11 | 248.30 |
| | | NORTHING | 1858106.10 | 1858106.10 | 1859456.10 | 1858194.45 | | LEFT | | | |
| | | EASTING | 6530784.00 | 6531032.30 | 6530784.00 | 6531264.35 | | | | | |
| INDIANA ROAD "INDIANA RD" LINE | 050-01 | STATION | 11+95.37 | 13+78.12 | | 15+60.27 | 2,600.00 | 8°02'29" | 2°12'13" | 364.90 | 182.75 |
| | | NORTHING | 1851920.26 | 1852100.75 | 1852327.66 | 1852283.48 | | RIGHT | | | |
| | | EASTING | 6532535.05 | 6532506.42 | 6535102.94 | 6532503.31 | | | | | |
| | 050-02 | STATION | 23+89.97 | 28+74.96 | | 33+59.66 | 16,000.00 | 3°28'21" | 0°21'29" | 969.69 | 484.99 |
| | | NORTHING | 1853113.06 | 1853597.98 | 1852841.18 | 1854081.52 | | LEFT | | | |
| | | EASTING | 6532489.21 | 6532480.97 | 6516491.52 | 6532443.38 | | | | | |
| | 050-03 | STATION | 45+33.86 | 47+11.74 | | 48+85.93 | 1,000.00 | 20°10'20" | 5°43'46" | 352.07 | 177.88 |
| | | NORTHING | 1855252.18 | 1855429.52 | 1855329.70 | 1855600.74 | | RIGHT | | | |
| | | EASTING | 6532352.35 | 6532338.56 | 6533349.34 | 6532386.77 | | | | | |
| HUTCHINS ROAD "HUTCHINS RD" LINE | 051-01 | STATION | 11+50.00 | 13+00.00 | | 13+85.62 | 150.00 | 90°00'00" | 38°11'50" | 235.62 | 150.00 |
| | | NORTHING | 1855027.31 | 1855034.86 | 1854877.50 | 1854885.05 | | RIGHT | | | |
| | | EASTING | 6532520.23 | 6532670.04 | 6532527.79 | 6532677.60 | | | | | |
| | 051-02 | STATION | 23+02.53 | 26+55.17 | | 29+35.19 | 575.00 | 63°02'29" | 9°57'52" | 632.66 | 352.65 |
| | | NORTHING | 1853969.31 | 1853617.11 | 1853998.27 | 1853473.27 | | LEFT | | | |
| | | EASTING | 6532723.77 | 6532741.53 | 6533298.04 | 6533063.51 | | | | | |
| | 051-03 | STATION | 44+13.39 | 46+31.37 | | 48+42.63 | 1,000.00 | 24°35'36" | 5°43'46" | 429.24 | 217.98 |
| | | NORTHING | 1852870.34 | 1852781.43 | 1853783.37 | 1852783.41 | | LEFT | | | |
| | | EASTING | 6534413.16 | 6534612.18 | 6534821.05 | 6534830.15 | | | | | |
| ROAD 4/LINCOLN ROAD CONNECTOR "RD 4/LINCOLN RD CONNECTOR" LINE | 120-01 | STATION | 11+23.29 | 14+73.29 | | 16+73.07 | 350.00 | 90°00'00" | 16°22'13" | 549.78 | 350.00 |
| | | NORTHING | 1841235.50 | 1841235.50 | 1841585.50 | 1841585.50 | | RIGHT | | | |
| | | EASTING | 6569280.55 | 6568930.55 | 6569280.55 | 6568930.55 | | | | | |
| AVENUE 21 AT LINCOLN RD "AVE 21" LINE | 121-01 | STATION | 11+28.68 | 12+11.00 | | 12+93.27 | 2,800.00 | 3°22'04" | 2°02'47" | 164.58 | 82.32 |
| | | NORTHING | 1842334.23 | 1842334.23 | 1845134.23 | 1842339.06 | | LEFT | | | |
| | | EASTING | 6568959.24 | 6569041.55 | 6568959.24 | 6569123.72 | | | | | |
| | 121-02 | STATION | 15+53.44 | 16+40.16 | | 17+26.83 | 2,800.00 | 3°32'53" | 2°02'47" | 173.39 | 86.72 |
| | | NORTHING | 1842354.35 | 1842359.44 | 1839559.18 | 1842359.17 | | RIGHT | | | |
| | | EASTING | 6569383.45 | 6569470.02 | 6569547.94 | 6569556.74 | | | | | |
| ROAD 9/HEMLOCK ROAD CONNECTOR "RD 9/AVE 21 CONNECTOR " LINE | 160-01 | STATION | 11+23.05 | 14+73.05 | | 16+72.83 | 350.00 | 90°00'00" | 16°22'13" | 549.78 | 350.00 |
| | | NORTHING | 1841197.27 | 1841197.27 | 1841547.27 | 1841547.27 | | RIGHT | | | |
| | | EASTING | 6595679.82 | 6595329.82 | 6595679.82 | 6595329.82 | | | | | |
| AVENUE 21 AT ROAD 11 "AVE 21 A" LINE | 180-01 | STATION | 11+00.00 | 12+38.56 | | 13+77.10 | 10,000.00 | 1°35'16" | 0°34'23" | 277.10 | 138.56 |
| | | NORTHING | 1842295.66 | 1842296.14 | 1832295.72 | 1842292.78 | | RIGHT | | | |
| | | EASTING | 6604630.03 | 6604768.59 | 6604664.57 | 6604907.11 | | | | | |
| | 180-02 | STATION | 14+85.57 | 16+51.49 | | 18+17.38 | 10,000.00 | 1°54'04" | 0°34'23" | 331.82 | 165.92 |
| | | NORTHING | 1842290.15 | 1842286.12 | 1852287.21 | 1842287.60 | | LEFT | | | |
| | | EASTING | 6605015.54 | 6605181.41 | 6605258.07 | 6605347.33 | | | | | |
| | 180-03 | STATION | 35+68.54 | 36+91.82 | | 38+15.08 | 10,000.00 | 1°24'45" | 0°34'23" | 246.53 | 123.27 |
| | | NORTHING | 1842303.23 | 1842304.34 | 1852302.84 | 1842308.47 | | LEFT | | | |
| | | EASTING | 6607098.42 | 6607221.69 | 6607009.16 | 6607344.89 | | | | | |
| | 180-04 | STATION | 38+38.62 | 39+89.05 | | 41+39.46 | 10,000.00 | 1°43'25" | 0°34'23" | 300.84 | 150.43 |
| | | NORTHING | 1842309.26 | 1842314.31 | 1832314.90 | 1842314.84 | | RIGHT | | | |
| | | EASTING | 6607368.42 | 6607518.77 | 6607704.15 | 6607669.20 | | | | | |
| ROBERTSON BOULEVARD/AVENUE 21 CONNECTOR "AVE 21/ROBERTSON BLVD CONNECTOR" LINE | 200-01 | STATION | 15+52.51 | 17+11.17 | | 18+44.40 | 300.00 | 55°44'48" | 19°05'55" | 291.89 | 158.66 |
| | | NORTHING | 1841780.38 | 1841621.72 | 1841780.38 | 1841532.41 | | LEFT | | | |
| | | EASTING | 6612403.21 | 6612403.21 | 6612703.21 | 6612534.36 | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 10/30/2015

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GEOMETRY DATA TABLE
SHEET 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. CV-B0060-C
SCALE NO SCALE
SHEET NO.

02-NOV-2015 13:43 WF-CV-B0060-C.dgn p0051330

| ROAD "ALIGNMENT NAME" | CURVE NO. | | BC | PI | CC | EC | RADIUS (FT) | DELTA △ | DEGREE OF CURVATURE (ARC) | LENGTH (FT) | TANGENT (FT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AVENUE 21 AT ROAD 15 "AVE 21 C" LINE | 220-01 | STATION | 228+88.89 | 230+74.29 | | 232+59.66 | 10,000.00 | 2°07'28" | 0°34'23" | 370.77 | 185.41 |
| | | NORTHING | 1842398.21 | 1842399.03 | 1832398.31 | 1842392.97 | | RIGHT | | | |
| | | EASTING | 6626423.42 | 6626608.82 | 6626467.43 | 6626794.13 | | | | | |
| | 220-02 | STATION | 232+59.66 | 234+81.77 | | 237+03.81 | 10,000.00 | 2°32'41" | 0°34'23" | 444.15 | 222.11 |
| | | NORTHING | 1842392.97 | 1842385.71 | 1852387.63 | 1842388.32 | | LEFT | | | |
| | | EASTING | 6626794.13 | 6627016.13 | 6627120.83 | 6627238.22 | | | | | |
| | 220-03 | STATION | 239+11.91 | 239+54.41 | | 239+78.38 | 42.00 | 90°40'21" | 136°25'07" | 66.47 | 42.50 |
| | | NORTHING | 1842390.76 | 1842391.26 | 1842348.77 | 1842348.77 | | RIGHT | | | |
| | | EASTING | 6627446.31 | 6627488.80 | 6627446.80 | 6627488.80 | | | | | |
| AVENUE 21/ROAD 19 CONNECTOR "AVE 21/RD 19 CONNECTOR" LINE | 260-01 | STATION | 19+03.29 | 22+06.49 | | 23+77.71 | 300.00 | 90°36'31" | 19°05'55" | 474.42 | 303.20 |
| | | NORTHING | 1841567.77 | 1841567.59 | 1841867.77 | 1841870.78 | | RIGHT | | | |
| | | EASTING | 6647623.95 | 6647320.75 | 6647623.77 | 6647323.79 | | | | | |
| FAIRMEAD BOULEVARD "FAIRMEAD BLVD" LINE | 270-01 | STATION | 11+99.84 | 13+12.33 | | 14+24.71 | 3,000.00 | 4°17'41" | 1°54'35" | 224.87 | 112.49 |
| | | NORTHING | 1843187.82 | 1843107.76 | 1845295.19 | 1843033.84 | | LEFT | | | |
| | | EASTING | 6657022.60 | 6657101.62 | 6659157.78 | 6657186.41 | | | | | |
| | 270-02 | STATION | 17+21.37 | 19+48.86 | | 21+75.47 | 3,000.00 | 8°40'22" | 1°54'35" | 454.11 | 227.49 |
| | | NORTHING | 1842838.90 | 1842689.41 | 1840577.55 | 1842515.77 | | RIGHT | | | |
| | | EASTING | 6657410.03 | 6657581.50 | 6655438.66 | 6657728.48 | | | | | |
| | 270-03 | STATION | 24+57.83 | 25+72.50 | | 26+87.07 | 3,000.00 | 4°22'41" | 1°54'35" | 229.24 | 114.68 |
| | | NORTHING | 1842300.26 | 1842212.73 | 1844238.49 | 1842131.11 | | LEFT | | | |
| | | EASTING | 6657910.90 | 6657984.99 | 6660200.72 | 6658065.54 | | | | | |
| ROAD 22 "RD 22" LINE | 290-01 | STATION | 106+74.93 | 116+26.82 | | 125+18.43 | 3,000.00 | 35°12'30" | 1°54'35" | 1,843.50 | 951.90 |
| | | NORTHING | 1840364.13 | 1841031.44 | 1842503.50 | 1841968.05 | | LEFT | | | |
| | | EASTING | 6663448.15 | 6664126.97 | 6661345.04 | 6664296.87 | | | | | |
| | 290-02 | STATION | 144+11.01 | 146+98.96 | | 149+85.15 | 3,000.00 | 10°57'55" | 1°54'35" | 574.14 | 287.95 |
| | | NORTHING | 1843830.24 | 1844113.57 | 1844365.69 | 1844401.50 | | LEFT | | | |
| | | EASTING | 6664634.66 | 6664686.05 | 6661682.83 | 6664682.62 | | | | | |
| ROAD 24 "RD 24" LINE | 310-01 | STATION | 12+30.56 | 17+58.71 | | 20+72.21 | 550.00 | 87°40'39" | 10°25'03" | 841.64 | 528.15 |
| | | NORTHING | 1839687.15 | 1839159.01 | 1839689.16 | 1839139.53 | | LEFT | | | |
| | | EASTING | 6672240.78 | 6672242.70 | 6672790.77 | 6672770.49 | | | | | |
| | 310-02 | STATION | 34+37.65 | 45+85.82 | | 52+69.64 | 1,200.00 | 87°28'16" | 4°46'29" | 1,831.99 | 1,148.17 |
| | | NORTHING | 1839089.18 | 1839046.84 | 1837890.00 | 1837898.70 | | RIGHT | | | |
| | | EASTING | 6674135.00 | 6675282.39 | 6674090.75 | 6675290.72 | | | | | |
| VISTA AVENUE/ROAD 13 REALIGNMENT "VISTA AV" LINE | 490-01 | STATION | 112+46.35 | 115+35.02 | | 118+16.72 | 1,500.00 | 21°47'11" | 3°49'11" | 570.36 | 288.67 |
| | | NORTHING | 1873944.61 | 1874233.28 | 1873937.52 | 1874500.82 | | LEFT | | | |
| | | EASTING | 6616773.38 | 6616772.01 | 6615273.40 | 6616663.61 | | | | | |
| | 490-02 | STATION | 122+74.47 | 127+94.78 | | 132+56.36 | 1,200.00 | 46°52'55" | 4°46'29" | 981.89 | 520.31 |
| | | NORTHING | 1874925.07 | 1875407.29 | 1875375.71 | 1875879.52 | | RIGHT | | | |
| | | EASTING | 6616491.71 | 6616296.32 | 6617603.88 | 6616514.76 | | | | | |
| | 490-03 | STATION | 135+77.46 | 138+44.54 | | 141+03.06 | 1,200.00 | 25°05'44" | 4°46'29" | 525.60 | 267.08 |
| | | NORTHING | 1876170.95 | 1876413.35 | 1876674.76 | 1876680.43 | | LEFT | | | |
| | | EASTING | 6616649.57 | 6616761.70 | 6615560.45 | 6616760.44 | | | | | |
| AVENUE 21 1/2 (SJD-MER) "AVE 21 1/2 SJD-MER" LINE | 630-01 | STATION | 23+45.00 | 29+33.22 | | 34+85.88 | 1,900.00 | 34°24'14" | 3°00'56" | 1,140.87 | 588.22 |
| | | NORTHING | 1844977.93 | 1844977.93 | 1843077.93 | 1844645.57 | | RIGHT | | | |
| | | EASTING | 6611611.05 | 6612199.27 | 6611611.05 | 6612684.59 | | | | | |


02-NOV-2015 13:43
MF-CV-B0061-C.dgn
p0051330


| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 10/30/2015

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
GEOMETRY DATA TABLE
SHEET 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. CV-B0061-C
SCALE NO SCALE
SHEET NO.

| Utility Type | Conflict ID # | Utility | Description | Approximate Location of Conflict | Potential Project Impact | Sheet # |
|---|---|---|---|---|---|---|
| Electrical Utility >60KV | JVC-2 | Electric Overhead | 115 KV, east side of Flanagan Road | 5805+70 | High Risk | CV-S1090-C |
| | JVC-3 | Electric Overhead | 70 KV, west side of Road 4 / Lincoln Road | 5968+85 | | CV-S1120-C to CV-S1121-C |
| | JVC-61 | Electric Overhead | 115 KV PG&E Dairyland Substation; NE side of Avenue 21 | 6424+50 to 6426+80 | | CV-S1200-C |
| | JVC-62 | Electric Overhead | 115 KV east side of Berenda Canal | 6428+00 | | CV-S1200-C |
| | WYH-7 | Electric Overhead | 230 KV, Diagonal at Avenue 20 1/2 and Road 24 | 7020+50 | | CV-S1300-C to CV-S1310-C |
| | WYH-13 | Electric Overhead | 115 KV, SW side of Avenue 21 | 6424+00 | | CV-S1200-C |
| | | | 115 KV, crossing Avenue 21 to substation | 6424+50 | | CV-S1200-C |
| | WYH-13 | Electric Overhead | 115 KV | 36391+50 | | CV-S1630-C |
| | WYH-14 | Electric Overhead | 115 KV west side of Berenda Canal | 6425+50 | | CV-S1200-C |
| | WYH-2 | Electric Overhead | 115 KV, west side of Road 13 | 36473+00 to 36502+00 | | CV-S1640-C to CV-S1650-C |
| | WYH-15 | Electric Overhead | 115 KV, south side of Avenue 26 | 15239+50 | | CV-S1480-C |
| | WYH-16 | Electric Overhead | 115 KV, north side of Sandy Mush Rd | 15467+80 | | CV-S1520-C |
| Natural Gas Line | G51 | Natural Gas | 12" line on west side of Fairmead Blvd | 6849+60 | High Risk | CV-S1270-C to CV-S1280-C |
| | G52 | Natural Gas | 8" line on west side of Fairmead Blvd | 6849+40 | | CV-S1270-C to CV-S1280-C |
| | G30 | Natural Gas | 12" line west side of UPRR | 15476+75 to 15665+00 | | CV-S1520-C to CV-S1550-C |
| | WYH-8 | Natural Gas | 4" feeder main on west side of Road 22 | 6921+20 | | CV-S1290-C to CV-S1291-C |
| | G4 | Natural Gas | 4" feeder line on west side of Road 4 (Lincoln Rd) | Approximately 5968+00 | | CV-S1120-C to CV-S1121-C |
| | JVC-8 | Challenger Pipeline | 8-inch, high pressure natural gas gathering steel line on west side of Flanagan Road | 5805+40 | | CV-S1090-C |
| Petroleum Products | P2 | Petroleum | 12.75" O.D. high pressure, west side of UPRR | 6848+30 | High Risk | CV-S1270-C to CV-S1280 |
| Water Infrastructure | JVC-65 | Irrigation Ditch #40 | Unknown flow, irrigation infrastructure | 5348+00 | Low Risk | CV-S1010-C |
| | JVC-66 | West San Juan Drain No. 1 | Max flow - 20 cfs, irrigation infrastructure | 5361+10 | | CV-S1010-C |
| | JVC-137 | Irrigation Ditch #41 | Unknown flow, irrigation infrastructure | 5378+75 | | CV-S1010-C |
| | JVC-38 | Irrigation Ditch #42 | Unknown flow, irrigation infrastructure | 5391+70 | | CV-S1010-C |
| | JVC-39 | San Juan Canal | Max flow - 80 cfs, irrigation infrastructure | 5400+00 | | CV-S1020-C |
| | JVC-40 | San Juan Drain | Unknown flow, irrigation infrastructure | 5419+50 | | CV-S1020-C |
| | JVC-85 | Irrigation Ditch #43 | Max flow - 80 cfs, irrigation infrastructure | 5429+00 | | CV-S1020-C |

NOTES:

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3. REFER TO THE 15% HYDROLOGY AND HYDRAULICS REPORT FOR ADDITIONAL WATER CROSSING INFORMATION.

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
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DESIGNED BY D.SCHWANIK
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 02/13/2015

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
UTILITY CONFLICT TABLE
SHEET 1 OF 4

CONTRACT NO. HSR08-05
DRAWING NO. CV-B0070-C
SCALE NO SCALE
SHEET NO.

MF-CV-B0070-C.dgn
03-FEB-2015 4:02
p0035126

| Utility Type | Conflict ID # | Utility | Description | Approximate Location of Conflict | Potential Project Impact | Sheet # |
|---|---|---|---|---|---|---|
| Water Infrastructure | JVC-41 | Temple Santa Rita Canal | Unknown flow, irrigation infrastructure | 5439+90 | Low Risk | CV-S1020-C |
| | JVC-42 | West Santa Rita Drain | | 5448+35 | | CV-S1020-C |
| | JVC-67 | Drain No. 2 | | 5495+85 | | CV-S1030-C |
| | JVC-68 | Escano Branch Ditch | | 5504+80 | | CV-S1030-C |
| | JVC-138 | Drain No. 3 | | 5515+75 | | CV-S1040-C |
| | JVC-69 | Escano Ditch | | 5518+70 | | CV-S1040-C |
| | JVC-45 | Orchard Ditch | | 5525+60 | | CV-S1040-C |
| | JVC-70 | Santa Rita Slough | | 5528+45 | | CV-S1040-C |
| | JVC-71 | Santa Rita Drain No. 1 | | 5531+30 | | CV-S1040-C |
| | JVC-72 | Drain No. 4 | | 5540+80 | | CV-S1040-C |
| | JVC-73 | Santa Rita Drain No. 1A | | 5563+60 | | CV-S1050-C |
| | JVC-86 | Drain No. 5 | | 5571+50 | | CV-S1050-C |
| | JVC-140 | Irrigation Ditch #55 | | 5575+00 | | CV-S1050-C |
| | JVC-88 | Santa Rita Ditch | | 5575+50 | | CV-S1050-C |
| | JVC-139 | Island Field Drain No. 1 | | 5596+60 | | CV-S1050-C |
| | JVC-87 | Island Field Drain | | 5609+25 | | CV-S1050-C |
| | JVC-12 | Lucerne Ditch | | 5636+10 | | CV-S1060-C |
| | JVC-13 | Wood Slough | | 5647+15 | | CV-S1060-C |
| | JVC-89 | Drain No. 6 | | 5648+35 | | CV-S1060-C |
| | JVC-141 | Irrigation Ditch #67 | | 5656+75 | | CV-S1060-C |
| | JVC-89 | Drain No. 6 | Unknown flow, irrigation infrastructure | 5682+35 | | CV-S1070-C |
| | JVC-91 | Irrigation Ditch #68 | | 5696+35 | | CV-S1070-C |
| | JVC-74 | Riverside Canal | | 5721+00 | | CV-S1070-C |
| | JVC-98 | San Joaquin River | N/A | 5722+10 to 5724+15 | | CV-S1070-C |
| | JVC-99 | Irrigation Ditch #46 | Unknown flow, irrigation infrastructure | 5725+30 | | CV-S1070-C |
| | JVC-100 | Fresno River | N/A | 5743+35 | | CV-S1080-C |
| | JVC-101 | Mariposa Slough | | 5744+55 | | CV-S1080-C |
| | JVC-101 | Mariposa Slough | | 5751+80 | | CV-S1080-C |
| | JVC-15 | Eastside Bypass | | 5882+80 to 5897+95 | | CV-S1100-C to CV-S1110-C |
| | JVC-146 | Irrigation Canal #71 | Unknown flow, irrigation infrastructure | 5969+15 | | CV-S1120-C |

NOTES:

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3. REFER TO THE 15% HYDROLOGY AND HYDRAULICS REPORT FOR ADDITIONAL WATER CROSSING INFORMATION.

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY D.SCHWANIK
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 02/13/2015

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
UTILITY CONFLICT TABLE
SHEET 2 OF 4

CONTRACT NO. HSR08-05
DRAWING NO. CV-B0071-C
SCALE NO SCALE
SHEET NO.

MF-CV-B0071-C.dgn
03-FEB-2015 14:03
p0035126

| Utility Type | Conflict ID # | Utility | Description | Approximate Location of Conflict | Potential Project Impact | Sheet # |
|---|---|---|---|---|---|---|
| Water Infrastructure | JVC-46 | Chowchilla Canal | Unknown flow, irrigation infrastructure, concrete lined | 6047+00 | Low Risk | CV-S1130-C |
| | JVC-75 | Hughes Canal | Unknown flow, irrigation infrastructure | 6047+00 to 6071+60 | | CV-S1130-C to CV-S1140-C |
| | JVC-75 | Hughes Canal | | 6100+50 | | CV-S1140-C |
| | JVC-75 | Hughes Canal | Buried irrigation infrastructure, unknown flow, located on east side of Road 7/Juniper Road | 6126+70 | | CV-S1150-C |
| | JVC-77 | Ash Slough | N/A | 6133+80 to 6137+15 | | CV-S1150-C |
| | JVC-142 | Ashview Lat A | Buried irrigation infrastructure, unknown flow, west side of Road 9 / Hemlock Rd | 6232+35 | | CV-S1160-C |
| | JVC-79 | Ashview Canal | Irrigation infrastructure, north side of Avenue 21 | 6272+00 to 6285+00 | | CV-S1170-C |
| | JVC-79 | Ashview Canal | Max flow - 320 cfs, irrigation infrastructure, east side of Road 10 | 6285+85 | | CV-S1170-C |
| | JVC-80 | Road 11 Canal | Max flow - 24 cfs, irrigation infrastructrue, east side of Road 11 | 6338+60 | | CV-S1180-C |
| | JVC-81 | No. 12 Pipeline | Buried irrigation infrastructure, unknown flow | 6371+00 | | CV-S1190-C |
| | JVC-81 | No. 12 Pipeline | Buried irrigation infrastructure, unknown flow | 36371+50 | | CV-S1620-C |
| | JVC-82 | Bethel Canal | Max flow - 40 cfs, irrigation infrastructure | 6409+30 | | CV-S1200-C |
| | JVC-133 | Berenda Canal | Max flow - 875 cfs, irrigation infrastructure | 6427+40 | | CV-S1200-C |
| | JVC-83 | Dairy Pipeline | Buried irrigation infrastructure, unknown flow | 6450+40 | | CV-S1200-C |
| | JVC-117 | Central P.L. | 42" buried irrigation infrastructure, unkown flow, east side of Road 14 | 6496+15 | | CV-S1210-C |
| | JVC-111 | Berenda Slough | N/A | 6519+70 to 6521+25 | | CV-S1220-C |
| | JVC-114 | Lat 2.5 | Unknown flow, irrigation infrastructure | 6536+25 | | CV-S1220-C |
| | JVC-78 | Califa Canal Spill | Max flow - 320 cfs, Irrigation infrastructure, west side of Road 15 1/2 | 6574+15 | | CV-S1230-C |
| | JVC-113 | Califa Canal | Unknown flow, irrigation infrastructure | 6653+50 | | CV-S1240-C |
| | JVC-123 | 32.2-9.9-2.0 | Max flow - 320 cfs, Irrigation infrastructure | 6680+35 | | CV-S1240-C |
| | JVC-124 | 32.2-9.9 | Max flow - 990 cfs, Irrigation infrastructure east side of Road 18 | 6706+65 | | CV-S1250-C |
| | JVC-125 | 32.2-9.9-1.5 | Max flow - 600 cfs, Irrigation infrastructure, east side of Road 18 1/2 | 6733+60 | | CV-S1250-C |
| | JVC-126 | 32.2-9.9-1.0 | Max flow - 600 cfs, Irrigation infrastructure, east side of Road 19 | 6760+15 | | CV-S1260-C |
| | JVC-127 | 32.2-9.9-0.1 | Max flow - 140 cfs, Irrigation infrastructure, west side of Road 19 1/2 | 6785+50 | | CV-S1260-C |
| | JVC-128 | 32.2-10.2 | Max flow - 600 cfs, Irrigation infrastructure, east side of Road 20 | 6812+95 | | CV-S1270-C |

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| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY D.SCHWANIK
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 02/13/2015

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
UTILITY CONFLICT TABLE
SHEET 3 OF 4

CONTRACT NO. HSR08-05
DRAWING NO. CV-B0072-C
SCALE NO SCALE
SHEET NO.

03-FEB-2015 14:03 MF-CV-B0072-C.dgn
p0035126

| Utility Type | Conflict ID # | Utility | Description | Approximate Location of Conflict | Potential Project Impact | Sheet # |
|---|---|---|---|---|---|---|
| Water Infrastructure | JVC-130 | Berenda Creek | N/A | 6987+85 to 6988+50 | Low Risk | CV-S1300-C |
| | JVC-129 | 24.2-8.9-1.0 | Max Flow - 320 cfs, Irrigation infrastructure south side of Avenue 20 | 7065+75 | | CV-S1310-C |
| | JVC-143 | 24.2-8.9 | Unknown Flow, Irrigation infrastructure east side of Road 25 | 7097+25 | | CV-S1320-C |
| | JVC-134 | Dry Creek | N/A | 7106+70 to 7107+70 | | CV-S1320-C |
| | JVC-131 | 24.2 | Max flow - 990 cfs, Irrigation infrastructure | 7145+00 | | CV-S1330-C |
| | JVC-111 | Berenda Slough | N/A | 14943+90 to 14945+30 | | CV-S1420-C |
| | JVC-117 | Central P.L. | 42" buried irrigation infrastructure, Unknown Flow; east side of Road 14 | 14971+15 | | CV-S1430-C |
| | JVC-116 | Lat 1.5 | Unknown flow, irrigation infrastructure south side of Avenue 20 1/2 | 14990+20 | | CV-S1430-C |
| | JVC-133 | Berenda Canal | Max flow - 875 cfs, Irrigation infrastructure | 15021+50 | | CV-S1440-C |
| | JVC-106 | Ash Main Canal | Max flow - 320 cfs, Irrigation infrastructure | 15213+70 | | CV-S1470-C |
| | JVC-77 | Ash Slough | N/A | 15214+25 to 15217+80 | | CV-S1470-C |
| | JVC-106 | Ash Main Canal | Max flow - 320 cfs, Irrigation infrastructure | 15217+20 | | CV-S1470-C |
| | JVC-107 | Chowchilla River | N/A | 15288+00 to 15290+15 | | CV-S1480-C to CV-S1490-C |
| | JVC-108 | Lat 4 | Max flow - 600 cfs, Irrigation infrastructure | 15307+00 | | CV-S1490-C |
| | JVC-145 | Lat 3 | Max flow - 600 cfs, Irrigation infrastructure | 15347+25 | | CV-S1500-C |
| | JVC-109 | Lat 2 | Max flow - 600 cfs, Irrigation infrastructure, south side of Cross Road | 15374+25 | | CV-S1500-C |
| | JVC-110 | Dutchman Creek | N/A | 15436+10 | | CV-S1510-C |
| | JVC-105 | Deadman's Creek | N/A | 15575+70 | | CV-S1540-C |
| Storm Water Infrastructure | None Found | | | | | |
| Wastewater Infrastructure | None Found | | | | | |
| Communication Facilities | F9 | Fiber Optic | Underground 2-2" HDPE, west side of UPRR | 6848+50 | Low Risk | CV-S1270-C to CV-S1280-C |
| | F11 | Fiber Optic | Underground Telephone, west side of UPRR | 6848+65 | | CV-S1270-C to CV-S1280-C |
| | T97 | Fiber Optic | Underground Trenched Ducts w/ Buried Cable along Fairmead Blvd | 6850+00 | | CV-S1270-C to CV-S1280-C |
| | T99 | Fiber Optic | Buried Cable, south side of Avenue 25 | 15186+80 | | CV-S1470-C |
| | JVC-56 | Copper Cable | Buried cable. Runs North-South on the West side of Elgin Road right-of-way. | 5468+80 | | CV-S1030-C to CV-S1031-C |
| | JVC-57 | Copper Cable | Buried cable. Runs North-south on the East side of Indiana Road right-of way. | 5575+80 | | CV-S1050-C |

NOTES:

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| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
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DESIGNED BY D.SCHWANIK
DRAWN BY M. TACTAY
CHECKED BY A. GURA
IN CHARGE C. LEMLEY
DATE 10/30/2015

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
UTILITY CONFLICT TABLE
SHEET 4 OF 4

CONTRACT NO. HSR08-05
DRAWING NO. CV-B0073-C
SCALE NO SCALE
SHEET NO.

MF-CV-B0073-C.dgn
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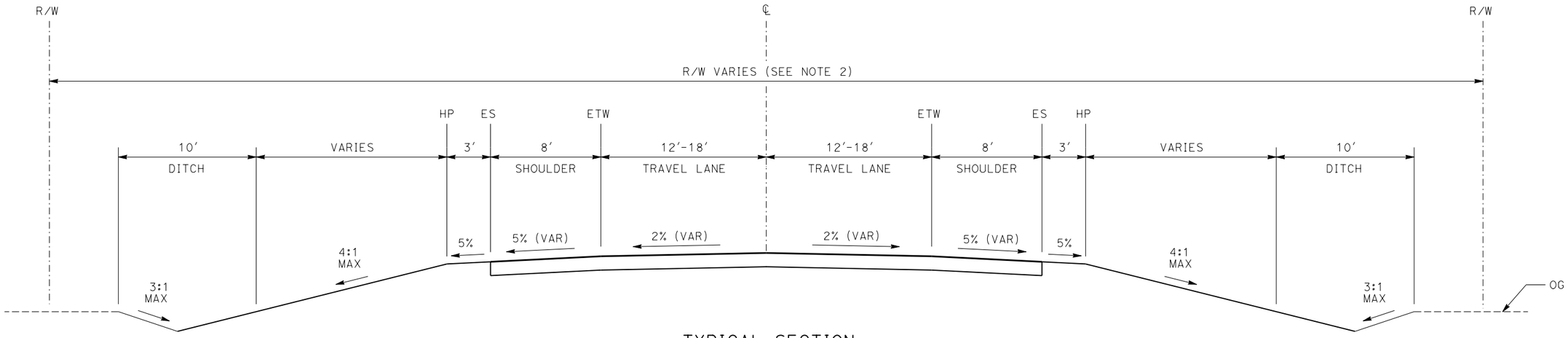
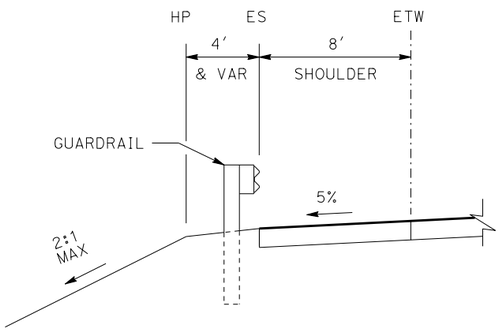



## TYPICAL SECTION

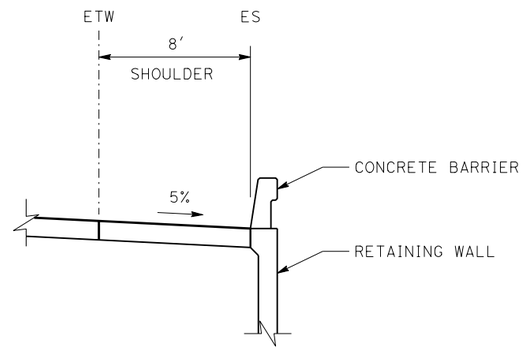
**COUNTY ROADWAY OR STATE HIGHWAY**

"HENRY MILLER RD" LINE
"INDIANA RD" LINE
"HUTCHINS RD CONNECTOR" LINE
"HUTCHINS RD" LINE
"RD 4/LINCOLN RD" LINE
"RD 4/LINCOLN RD CONNECTOR" LINE
"AVE 21" LINE
"RD 9/HEMLOCK RD" LINE
"RD 9/AVE 21 CONNECTOR" LINE
"AVE 21 A" LINE
"ROBERTSON BLVD" LINE
"AVE 21/ROBERTSON BLVD CONNECTOR" LINE
"AVE 21 B" LINE
"AVE 21 C" LINE
"RD 16" LINE
"RD 19" LINE
"AVE 21/RD 19 CONNECTOR" LINE
"FAIRMEAD BLVD" LINE
"RD 22" LINE
"AVE 20 1/2" LINE
"RD 24" LINE
"RD 14" LINE
"AVE 21 1/2 MER-FRE" LINE
"AVE 25" LINE
"RD 13" LINE
"VISTA AVE" LINE
"CROSS RD" LINE
"RD 11" LINE
"AVE 21½ SJD-MER" LINE
"RD 12 CONNECTOR" LINE




## TYPICAL SECTION

**AT STRUCTURE APPROACH**




## TYPICAL SECTION

**AT RETAINED FILL**

NOTES:

1. THE DITCH FLOWLINE SHOULD BE LOWER THAN THE ROADWAY STRUCTURAL SECTION.
2. RIGHT-OF-WAY REQUIRED FOR THE APPROACH TO A GRADE SEPARATION WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, CUT/FILL EXTENTS, AND USE OF RETAINING STRUCTURES.

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: J. RAY
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION
SHEET 1 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. CV-B0080-C
SCALE NO SCALE
SHEET NO.

MF-CV-B0080-C.dgn
16-MAR-2016 08:56
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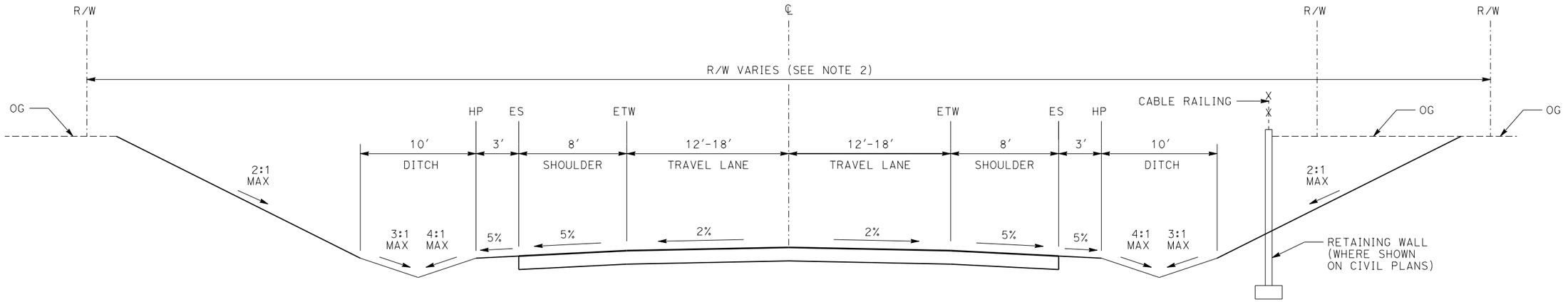


## TYPICAL SECTION

COUNTY ROADWAY OR STATE HIGHWAY

"RD 14" LINE
"AVE 25" LINE
"RD 13" LINE
"VISTA AV" LINE

NOTES:

1. THE DITCH FLOWLINE SHOULD BE LOWER THAN THE ROADWAY STRUCTURAL SECTION.
2. RIGHT-OF-WAY REQUIRED FOR THE APPROACH TO A GRADE SEPARATION WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, CUT/FILL EXTENTS, AND USE OF RETAINING STRUCTURES.

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
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DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
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IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
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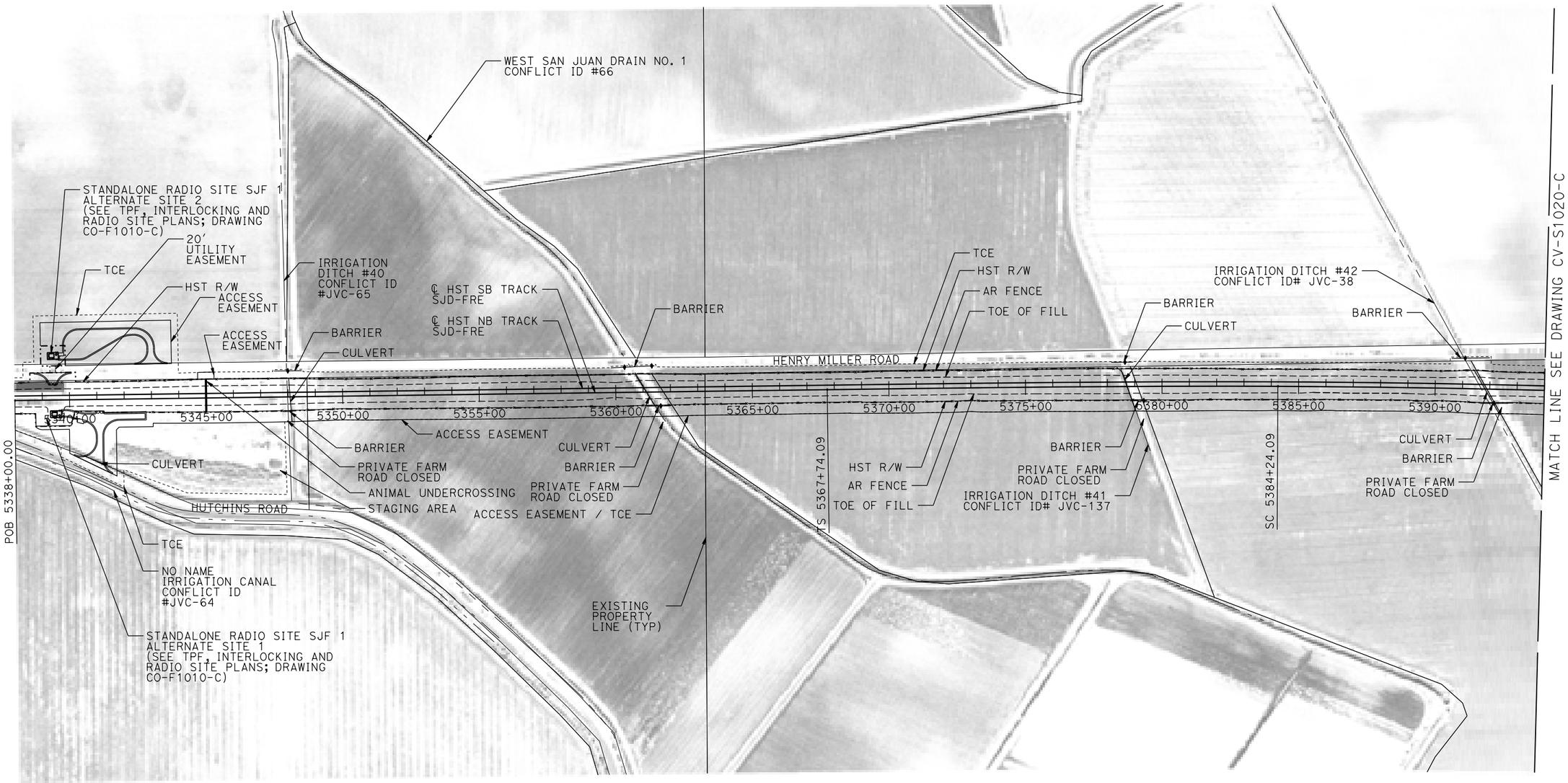
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
TYPICAL SECTION
SHEET 2 OF 2

CONTRACT NO. HSR08-05
DRAWING NO. CV-B0081-C
SCALE NO SCALE
SHEET NO.

18-MAR-2016 08:21 MF-CV-B0081-C.dgn p0051330

**MERCED COUNTY**




**PLAN**

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1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

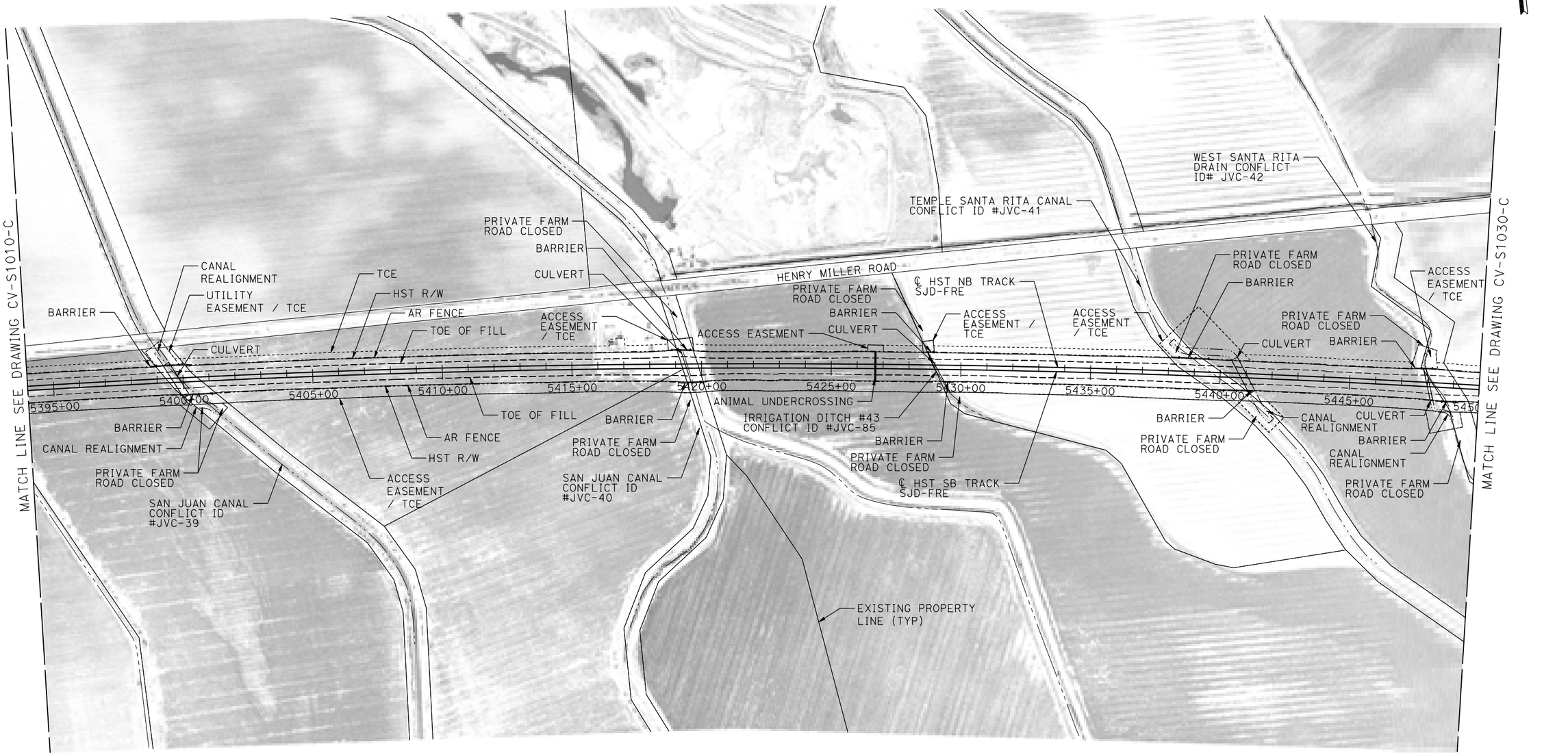
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 5338+00 TO 5394+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1010-C
SCALE 1"=200'
SHEET NO.

p0005133A 17-MAR-2016 20:02 MF-CV-S1010-C.dgn

## MERCED COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

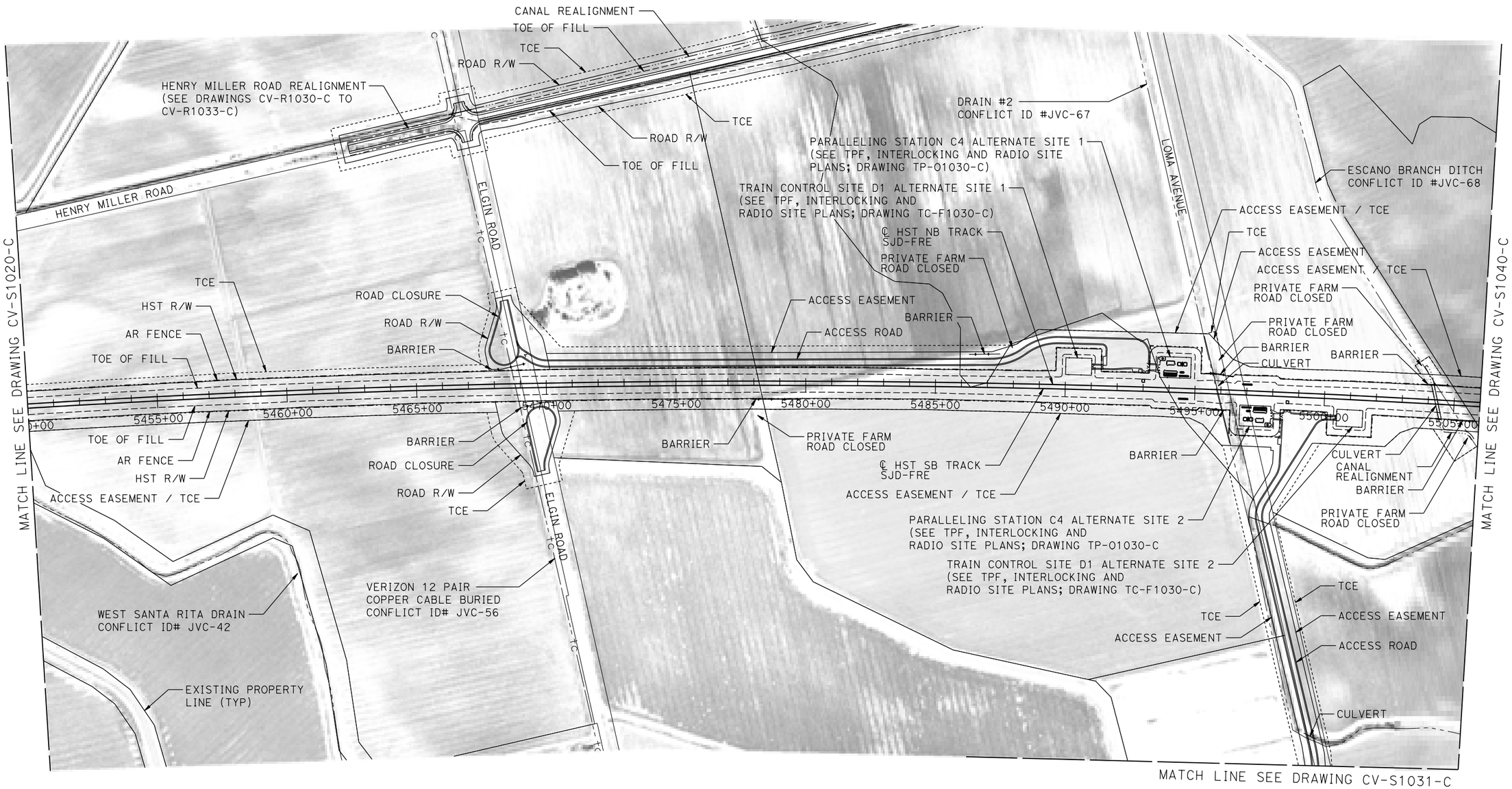
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 5394+00 TO 5450+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1020-C
SCALE 1"=200'
SHEET NO.

p0051133A 18-MAR-2016 4:52 MF-CV-S1020-C.dgn

# MERCED COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 5450+00 TO 5506+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1030-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1030-C.dgn
17-MAR-2016@0:04
p0051133A

**MERCED COUNTY**

**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

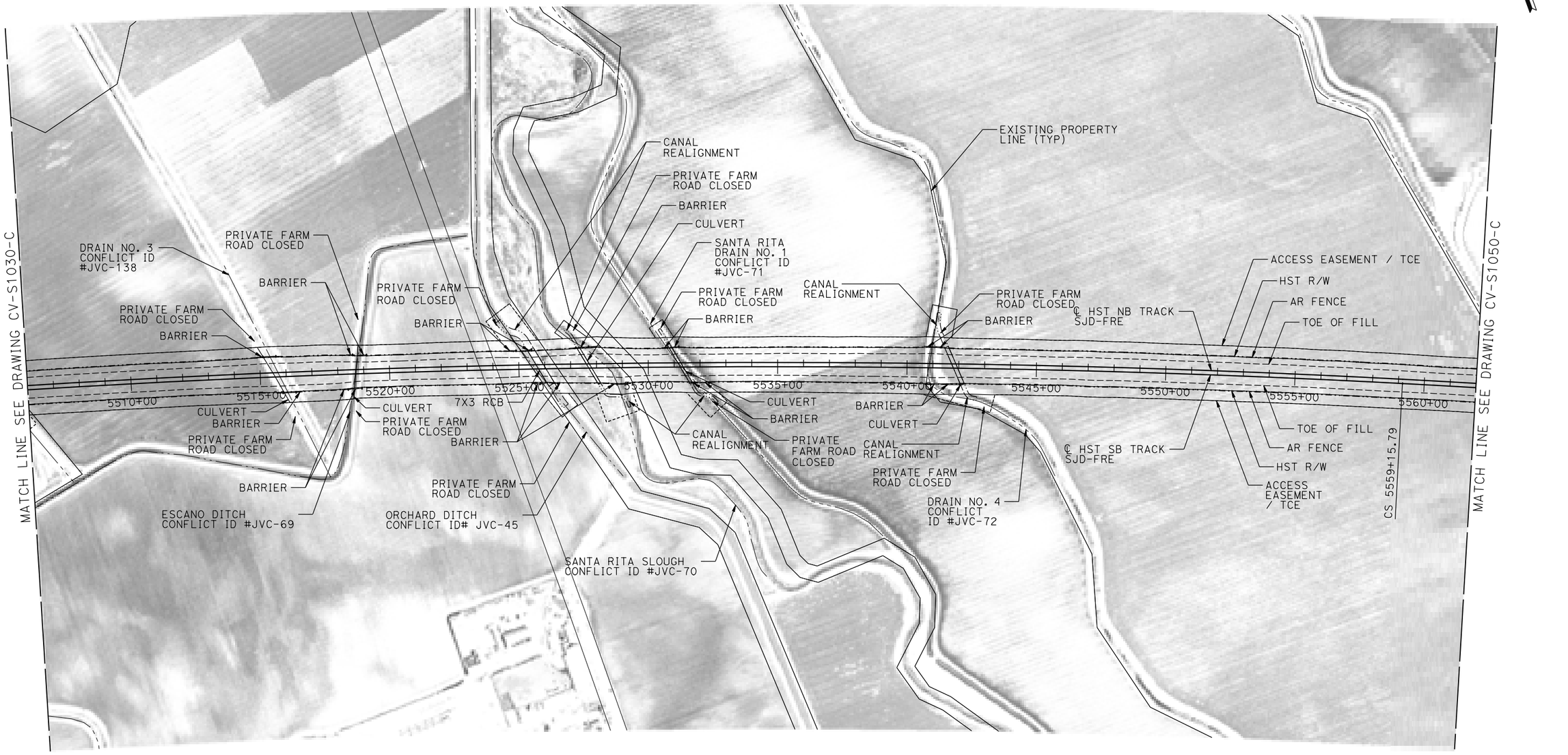
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE ACCESS ROAD

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1031-C
SCALE 1"= 200'
SHEET NO.

p0051133A 17-MAR-2016 20:05 MF-CV-S1031-C.dgn

## MERCED COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

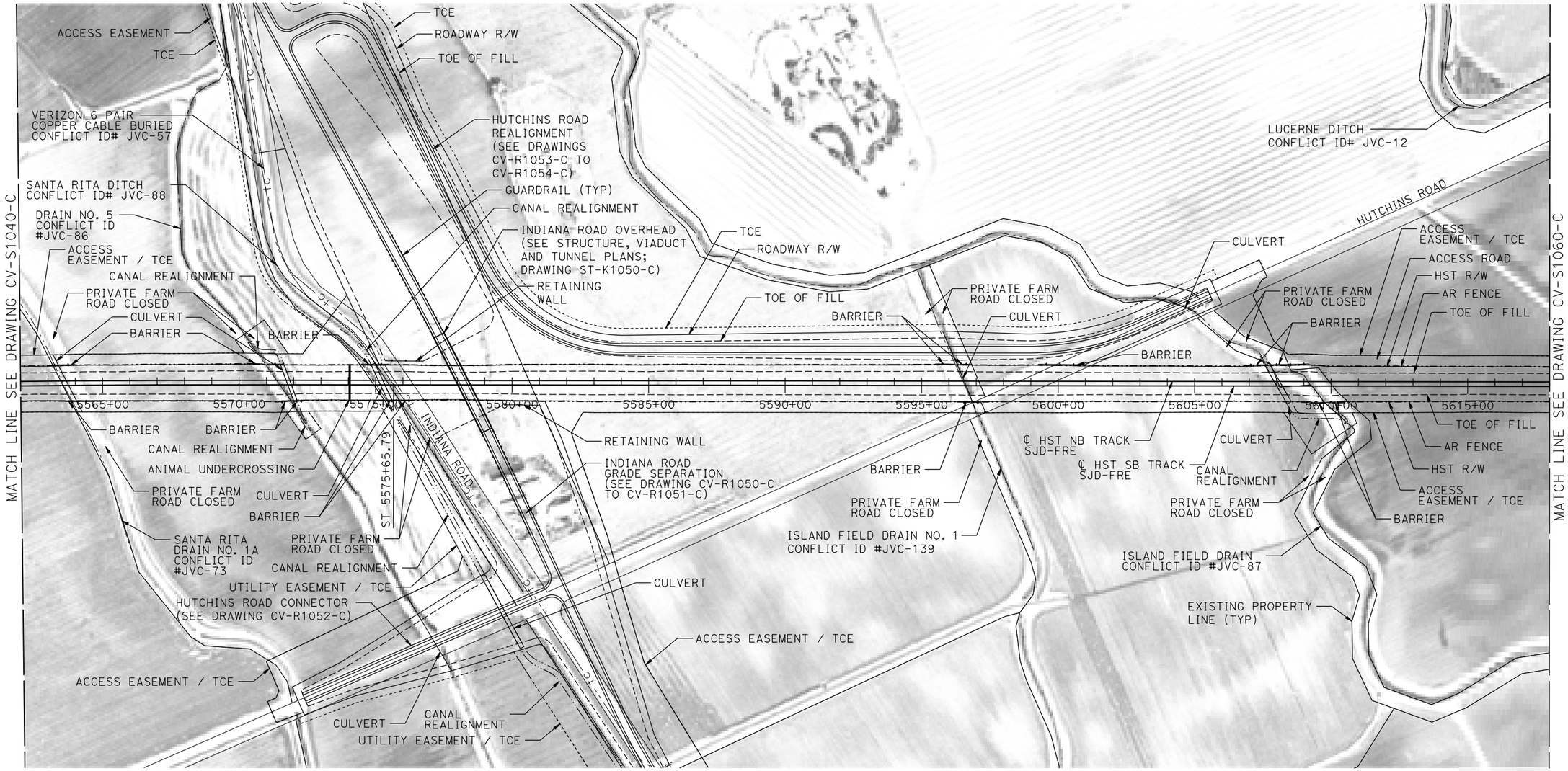
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 5506+00 TO 5562+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1040-C
SCALE 1"=200'
SHEET NO.

18-MAR-2016 13:48
MF-CV-S1040-C.dgn
p0051334

# MERCED COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

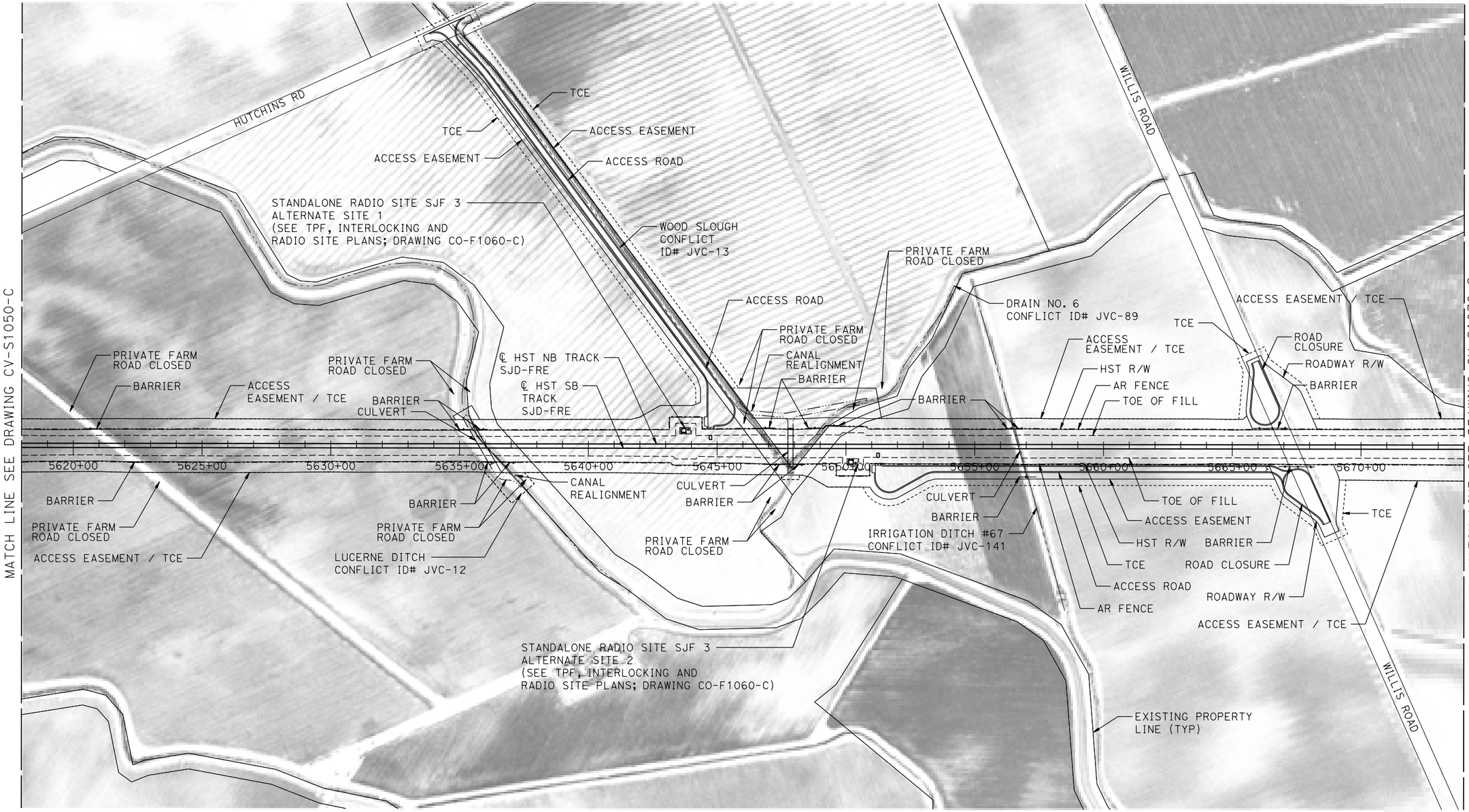
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 5562+00 TO 5618+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1050-C
SCALE 1"=200'
SHEET NO.

18-MAR-2016 13:49 MF-CV-S1050-C.dgn p0051133A

## MERCED COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: M. STANWIC
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

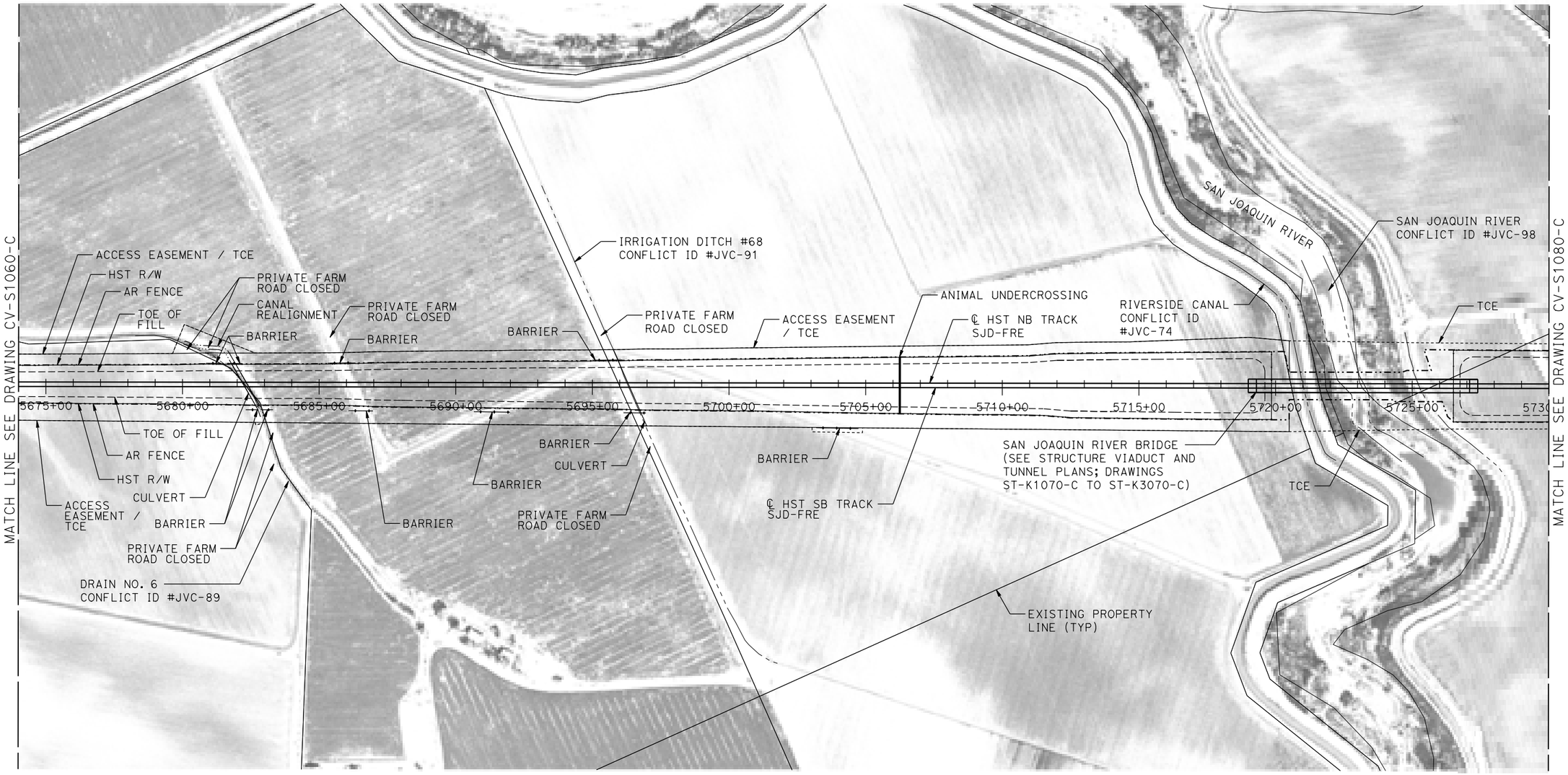
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 5618+00 TO 5674+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1060-C
SCALE 1"=200'
SHEET NO.

p005133A 17-MAR-2016 21:09 MF-CV-S1060-C.dgn

## MERCED COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

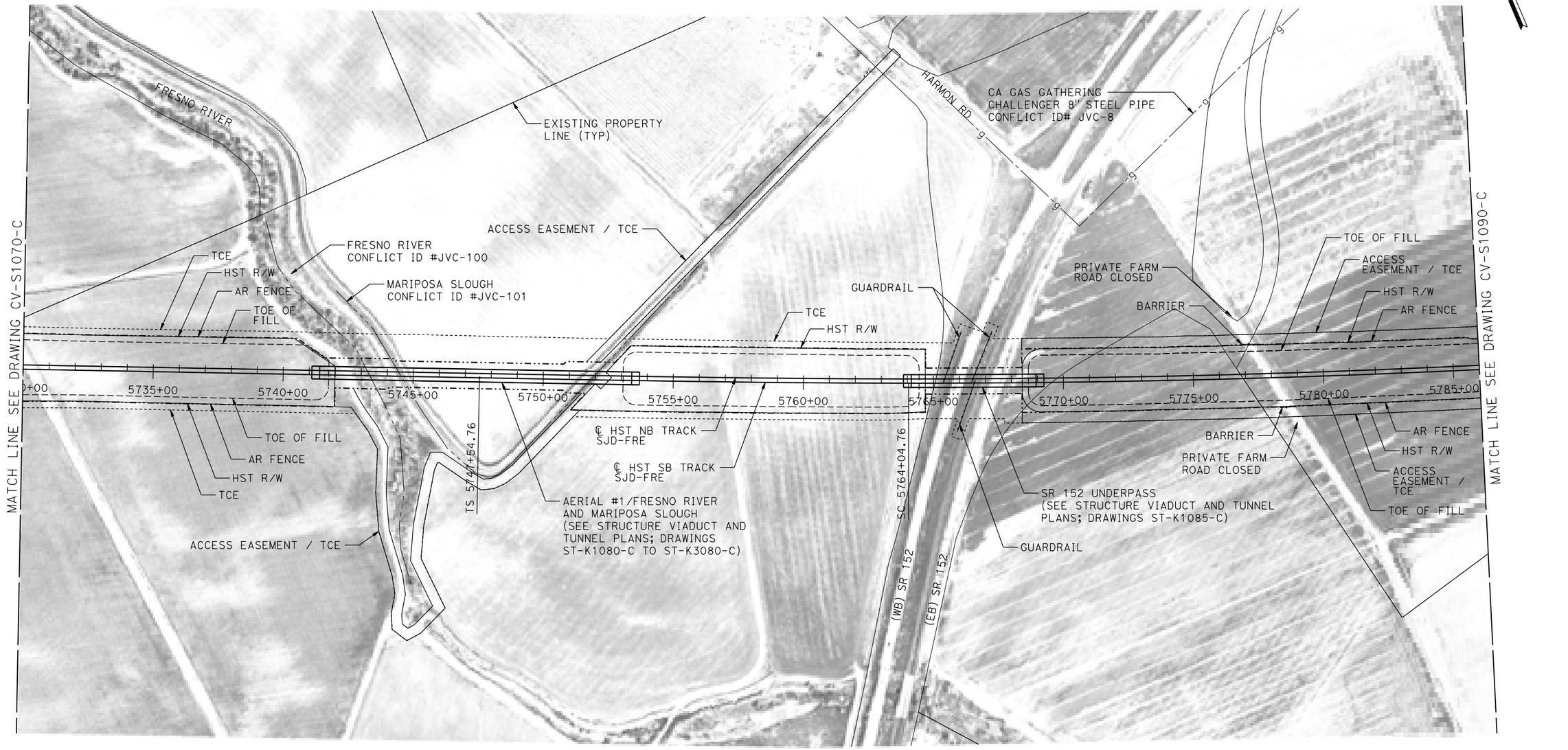
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 5674+00 TO 5730+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1070-C
SCALE 1"=200'
SHEET NO.

p0051133A 18-MAR-2016 3:49 MF-CV-S1070-C.dgn

## MERCED COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 02/13/2015

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

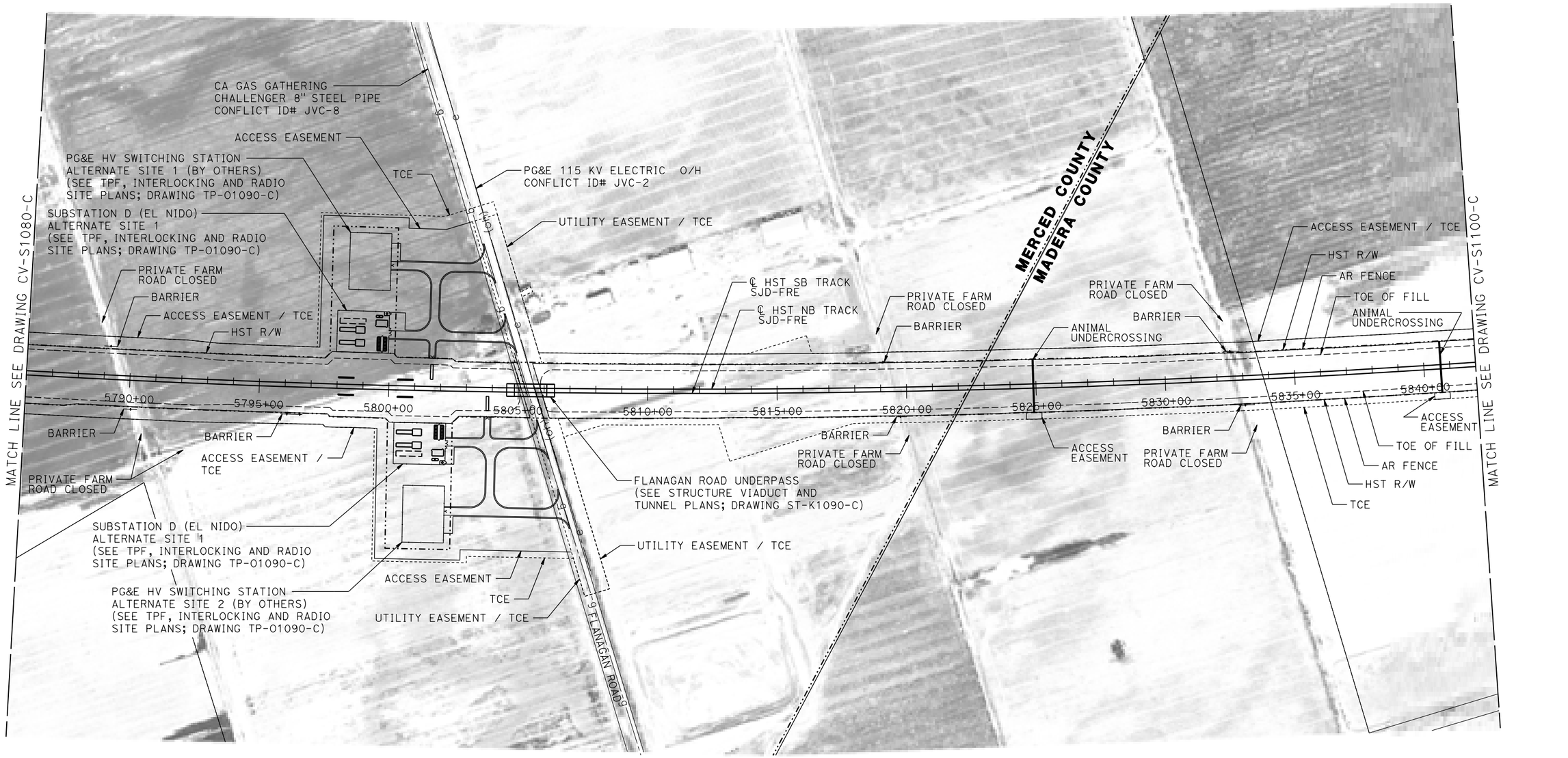
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 5730+00 TO 5786+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1080-C
SCALE 1"=200'
SHEET NO.

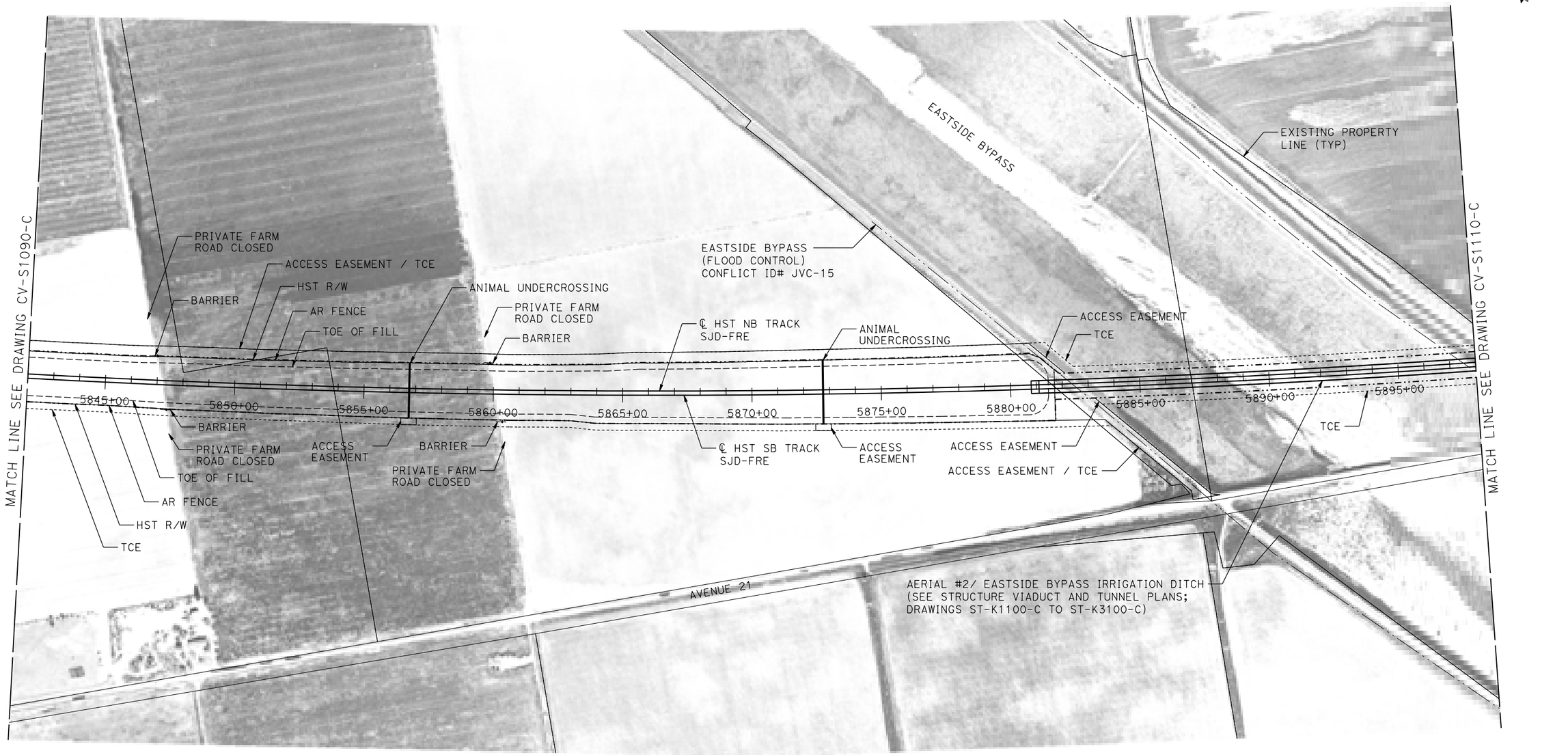
p005133A 17-MAR-2016 21:11 MF-CV-S1080-C.dgn

MERCED COUNTY

MADERA COUNTY


CA GAS GATHERING
CHALLENGER 8" STEEL PIPE
CONFLICT ID# JVC-8
ACCESS EASEMENT
PG&E HV SWITCHING STATION
ALTERNATE SITE 1 (BY OTHERS)
(SEE TPF, INTERLOCKING AND RADIO
SITE PLANS; DRAWING TP-01090-C)
TCE
PG&E 115 KV ELECTRIC O/H
CONFLICT ID# JVC-2
SUBSTATION D (EL NIDO)
ALTERNATE SITE 1
(SEE TPF, INTERLOCKING AND RADIO
SITE PLANS; DRAWING TP-01090-C)
UTILITY EASEMENT / TCE
PRIVATE FARM
ROAD CLOSED
BARRIER
ACCESS EASEMENT / TCE
HST R/W
℄ HST SB TRACK
SJD-FRE
℄ HST NB TRACK
SJD-FRE
PRIVATE FARM
ROAD CLOSED
BARRIER
MERCED COUNTY
MADERA COUNTY
PRIVATE FARM
ROAD CLOSED
BARRIER
ANIMAL
UNDERCROSSING
ACCESS EASEMENT / TCE
HST R/W
AR FENCE
TOE OF FILL
ANIMAL
UNDERCROSSING
MATCH LINE SEE DRAWING CV-S1080-C
MATCH LINE SEE DRAWING CV-S1100-C
5790+00
5795+00
5800+00
5805+00
5810+00
5815+00
5820+00
5825+00
5830+00
5835+00
5840+00
BARRIER
BARRIER
ACCESS EASEMENT / TCE
PRIVATE FARM
ROAD CLOSED
BARRIER
PRIVATE FARM
ROAD CLOSED
BARRIER
ACCESS EASEMENT
PRIVATE FARM
ROAD CLOSED
ACCESS EASEMENT
TOE OF FILL
AR FENCE
HST R/W
TCE
FLANAGAN ROAD UNDERPASS
(SEE STRUCTURE VIADUCT AND
TUNNEL PLANS; DRAWING ST-K1090-C)
SUBSTATION D (EL NIDO)
ALTERNATE SITE 1
(SEE TPF, INTERLOCKING AND RADIO
SITE PLANS; DRAWING TP-01090-C)
UTILITY EASEMENT / TCE
ACCESS EASEMENT
TCE
PG&E HV SWITCHING STATION
ALTERNATE SITE 2 (BY OTHERS)
(SEE TPF, INTERLOCKING AND RADIO
SITE PLANS; DRAWING TP-01090-C)
UTILITY EASEMENT / TCE
9' FLANAGAN ROAD
9'
9'
9'

## MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

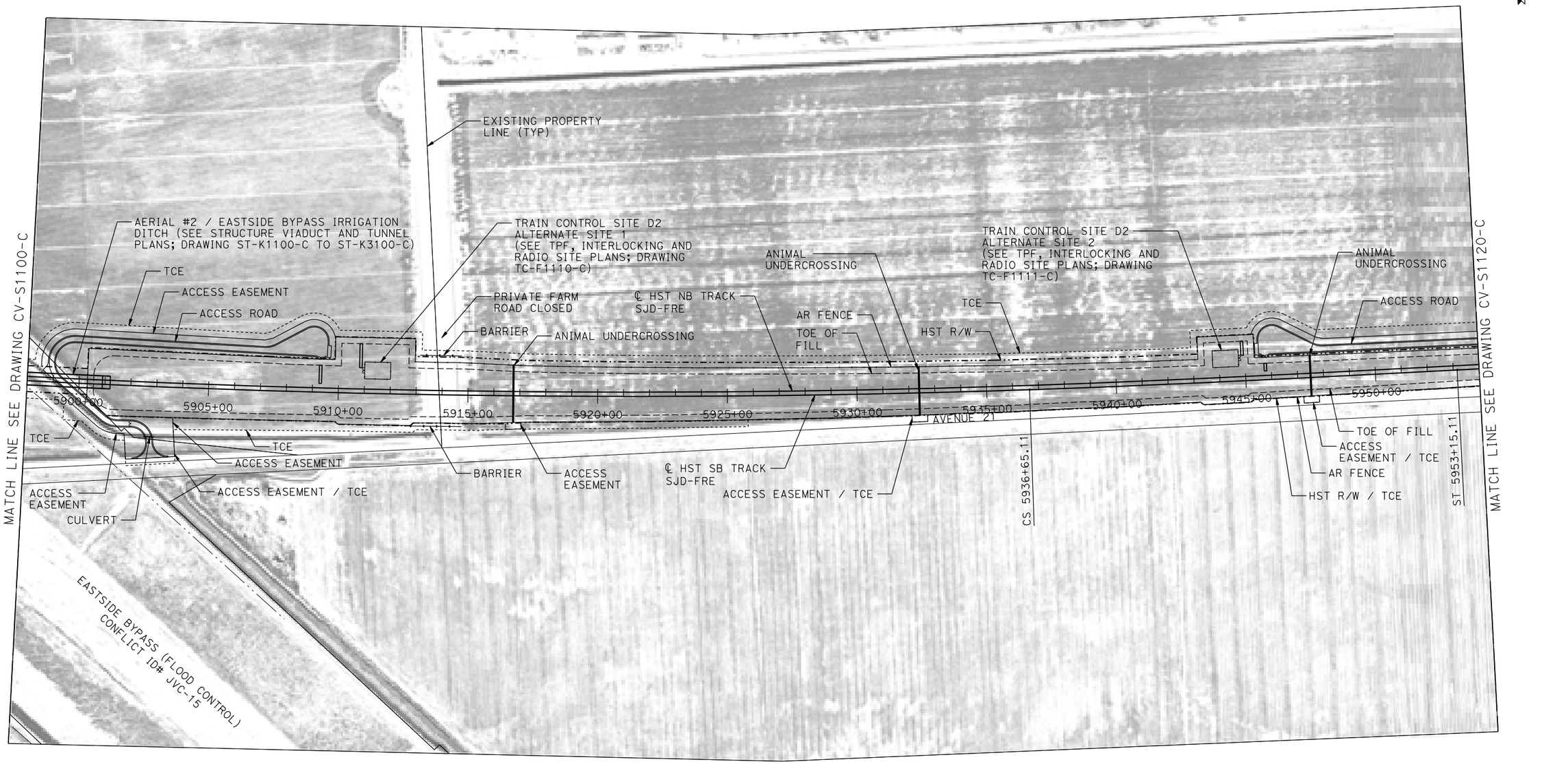
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 5842+00 TO 5898+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1100-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1100-C.dgn
17-MAR-2016 21:13
p005133A

## MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

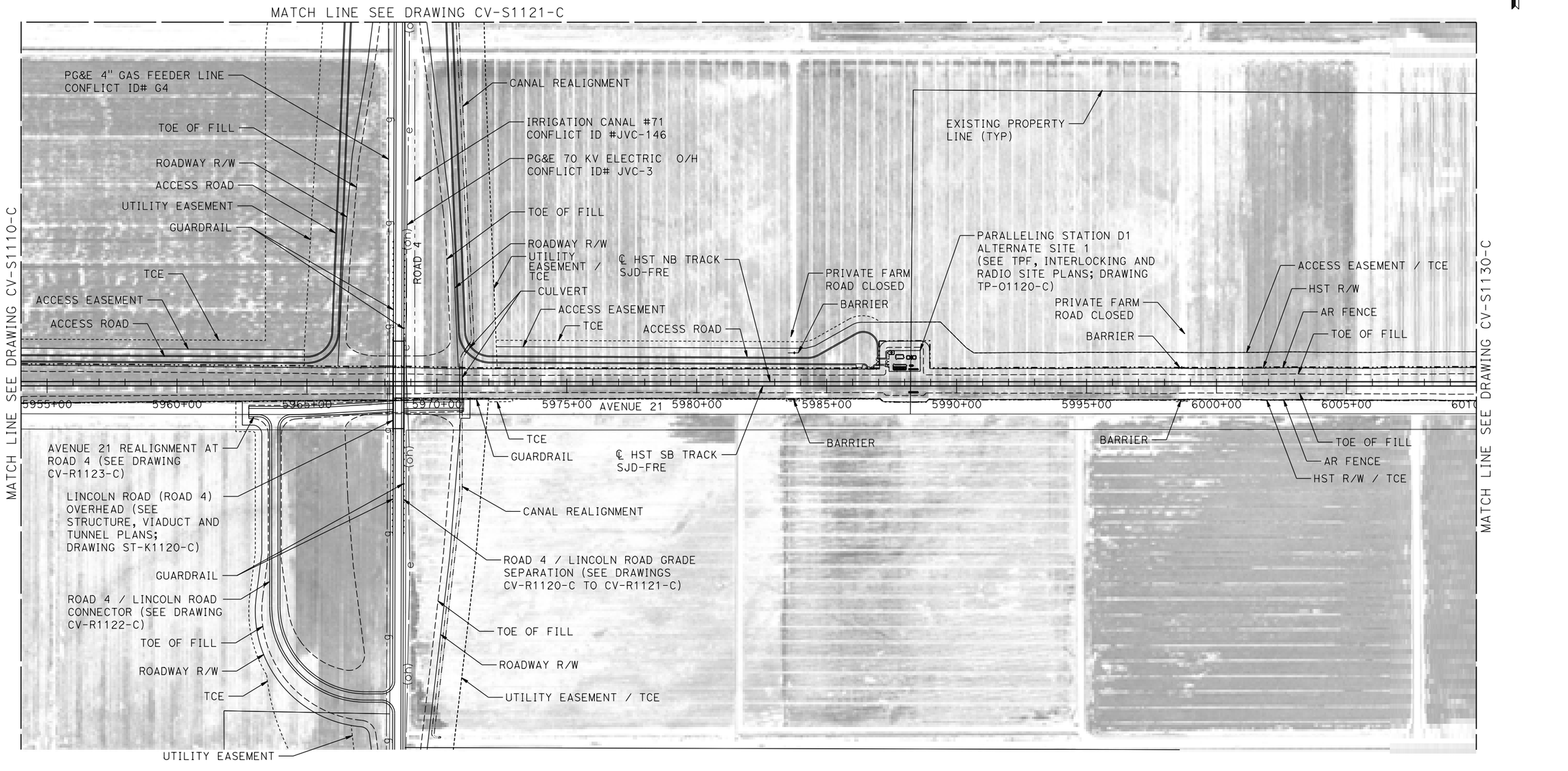
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 5898+00 TO 5954+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1110-C
SCALE 1"=200'
SHEET NO.

17-MAR-2016 21:13
MF-CV-S1110-C.dgn
p0051133A

## MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: M. STANWIC
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

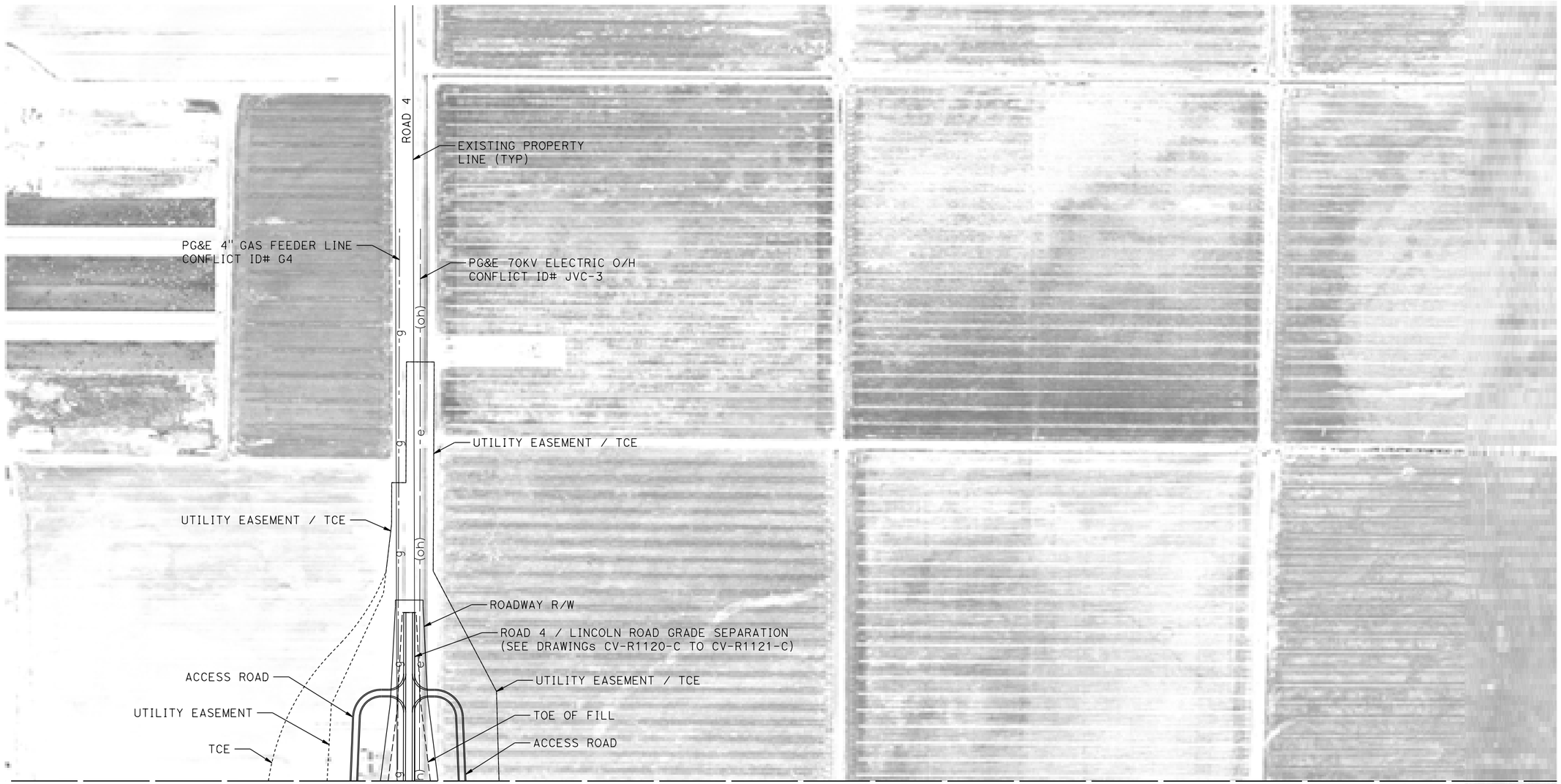
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 5954+00 TO 6010+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1120-C
SCALE 1"=200'
SHEET NO.

18-MAR-2016 13:50
MF-CV-S1120-C.dgn
p0051334

# MADERA COUNTY




MATCH LINE SEE DRAWING CV-S1120-C

## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 10/30/2015

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

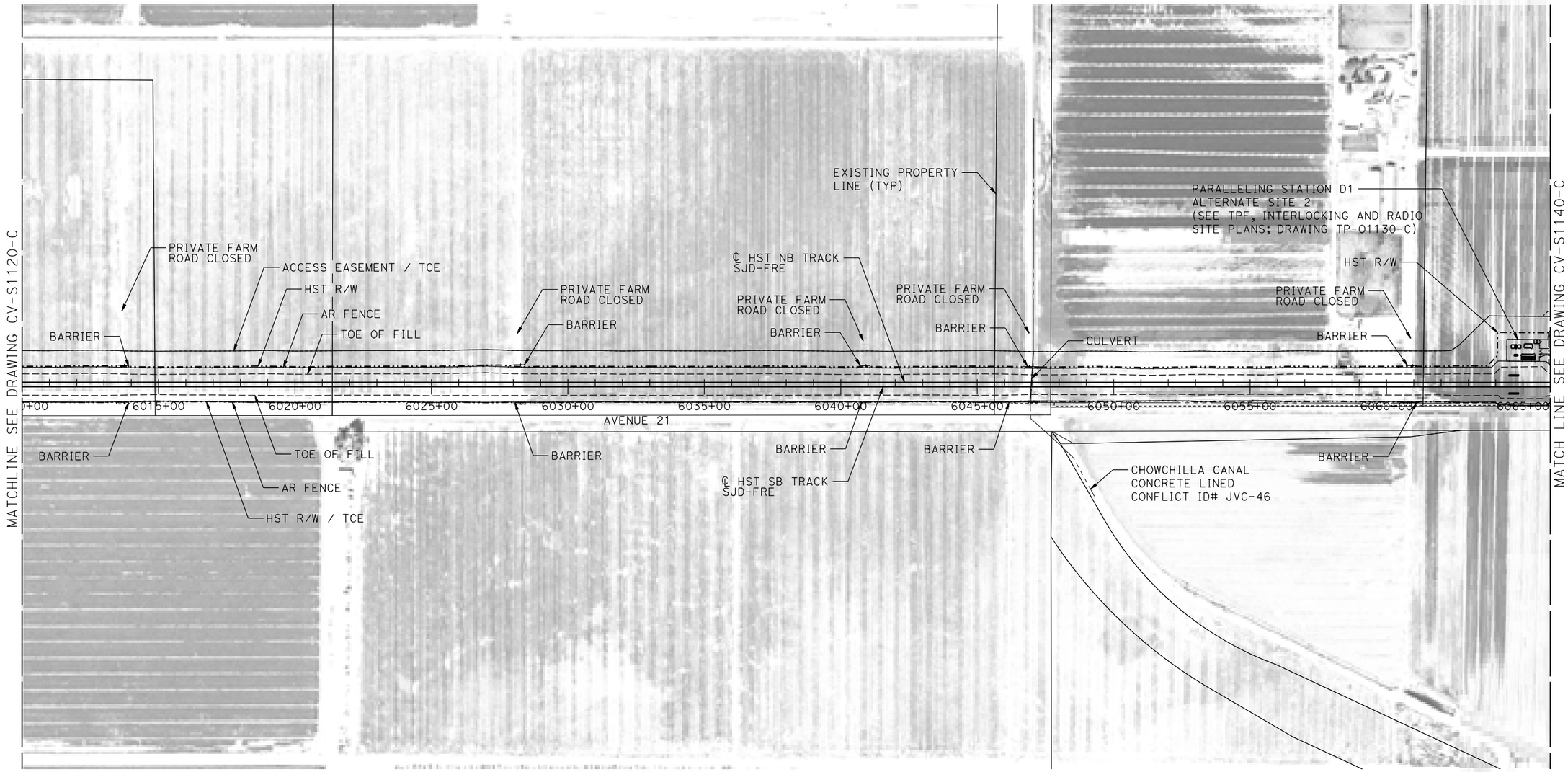
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE ACCESS ROAD

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1121-C
SCALE 1"=200'
SHEET NO.

17-MAR-2016 21:16 MF-CV-S1121-C.dgn p0051334

## MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

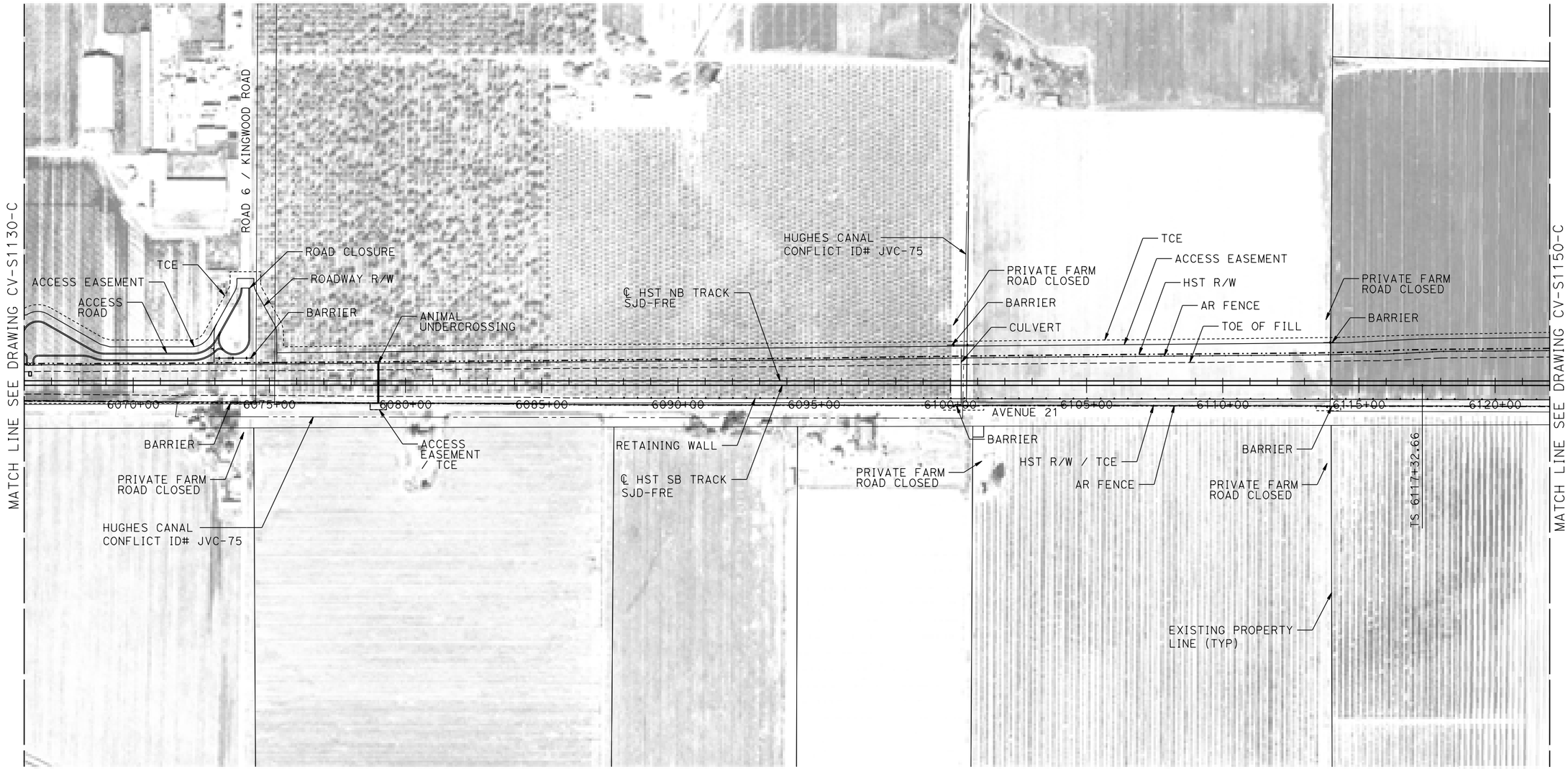
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6010+00 TO 6066+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1130-C
SCALE 1"=200'
SHEET NO.

17-MAR-2016 21:16 MF-CV-S1130-C.dgn p0051334

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

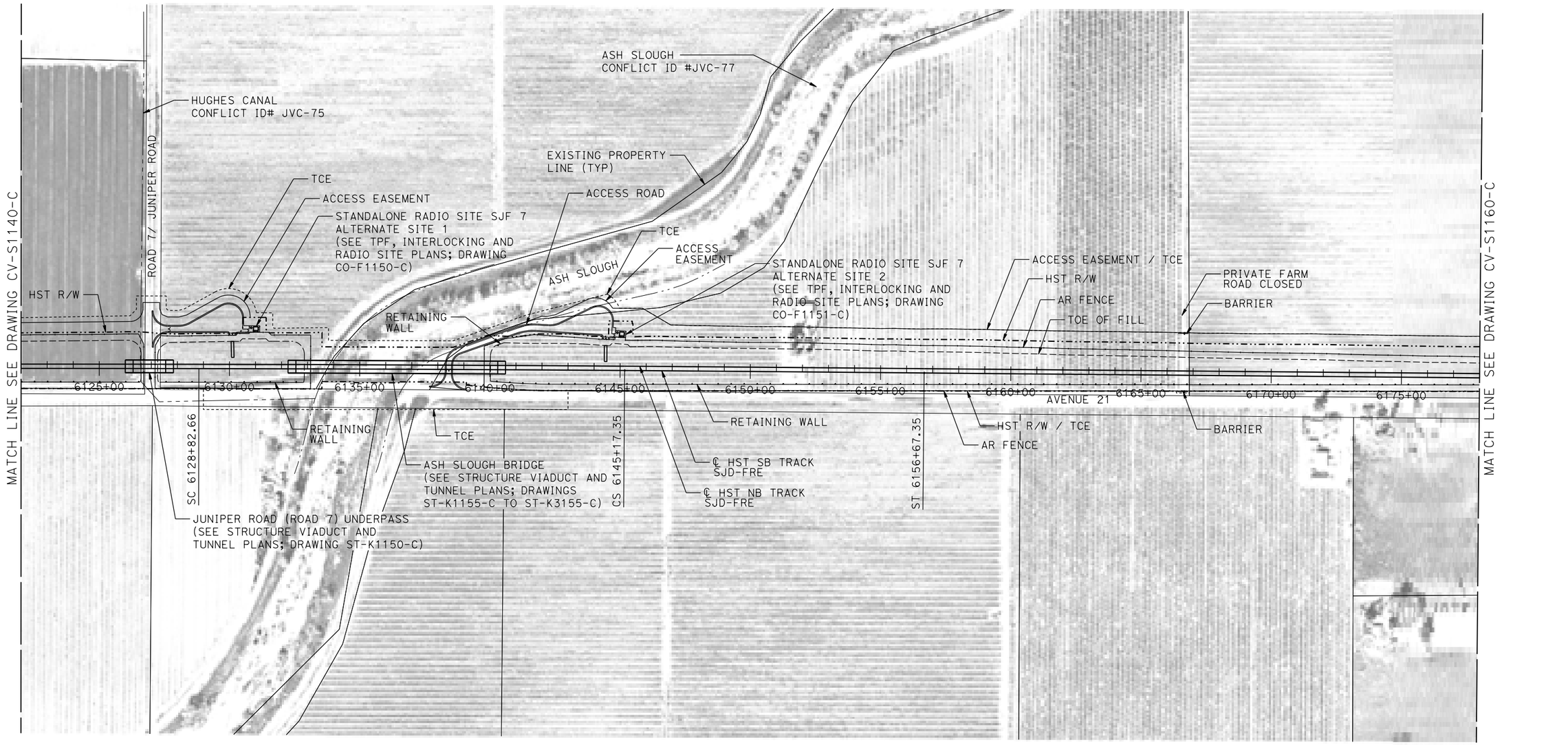
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6066+00 TO 6122+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1140-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1140-C.dgn
17-MAR-2016 21:18
p0051334

## MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

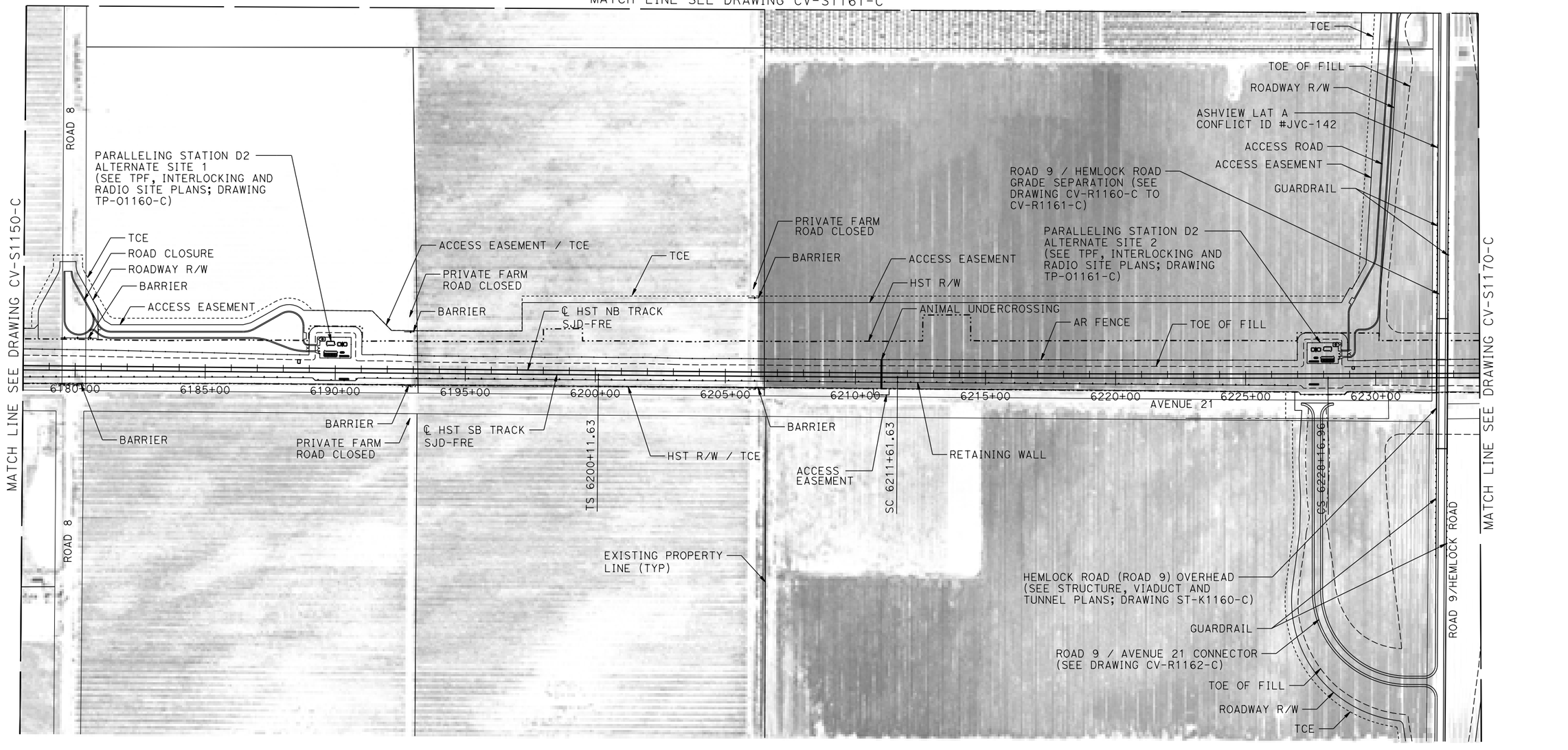
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6122+00 TO 6178+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1150-C
SCALE 1"=200'
SHEET NO.

p005133A 17-MAR-2016 21:19 MF-CV-S1150-C.dgn

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: M. STANWIC
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

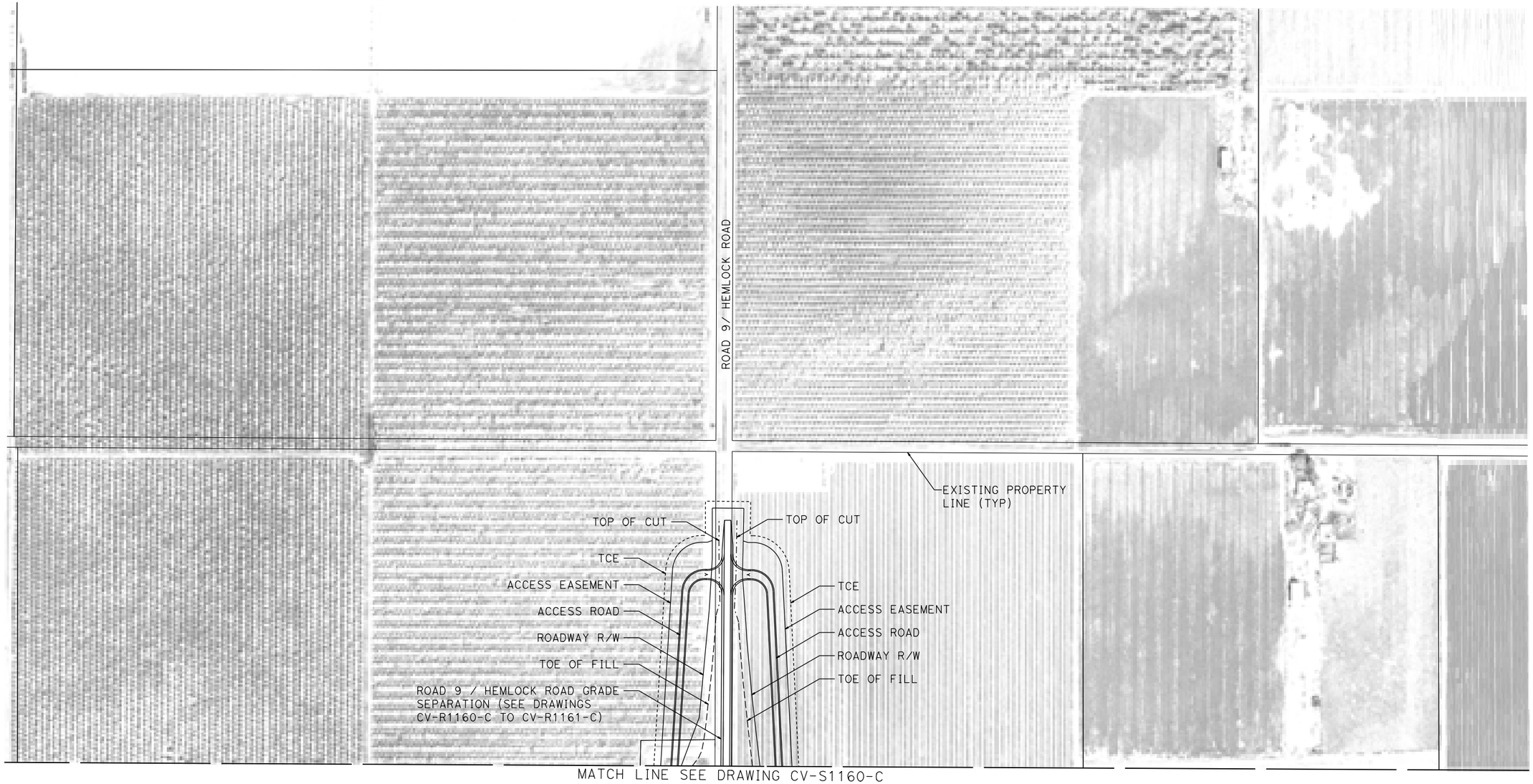
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6178+00 TO 6234+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1160-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1160-C.dgn
18-MAR-2016 13:51
p0051334

MADERA COUNTY




# PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

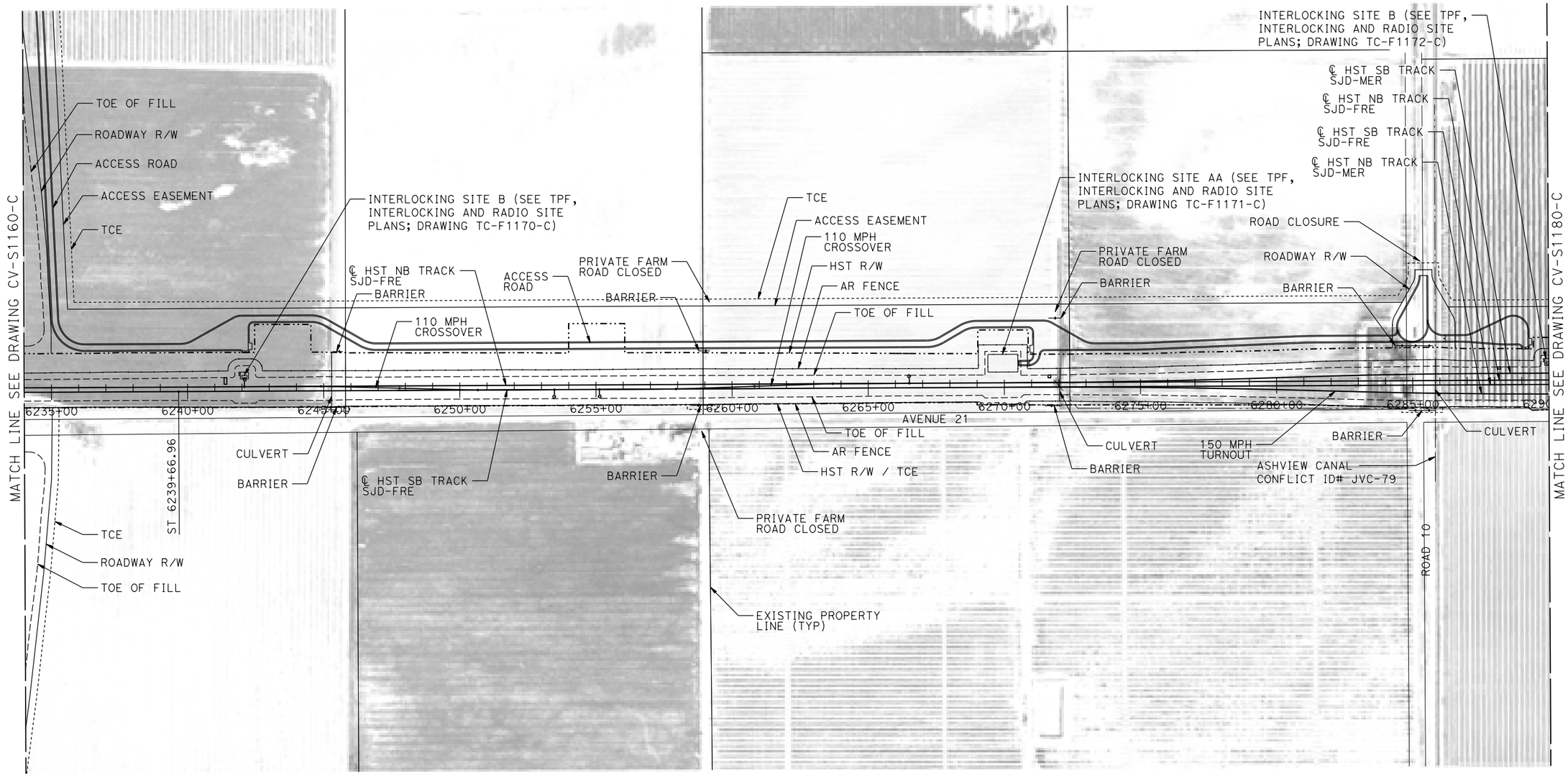
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE ACCESS ROAD

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1161-C
SCALE 1"=200'
SHEET NO.

17-MAR-2016 21:21
MF-CV-S1161-C.dgn
p0051133A

# MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

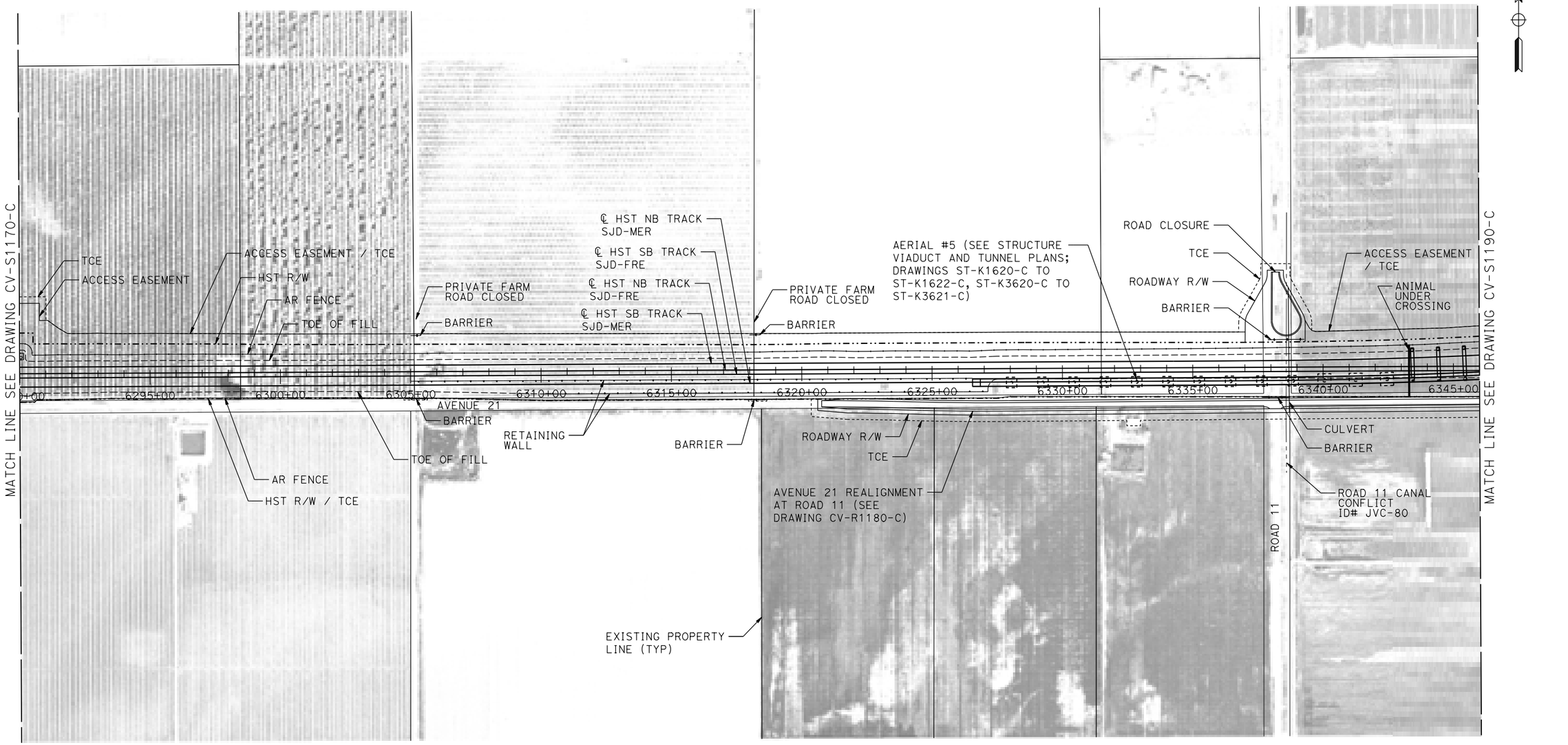
PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6234+00 TO 6290+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1170-C
SCALE 1"=200'
SHEET NO.

17-MAR-2016@1:22 MF-CV-S1170-C.dgn p005133A




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

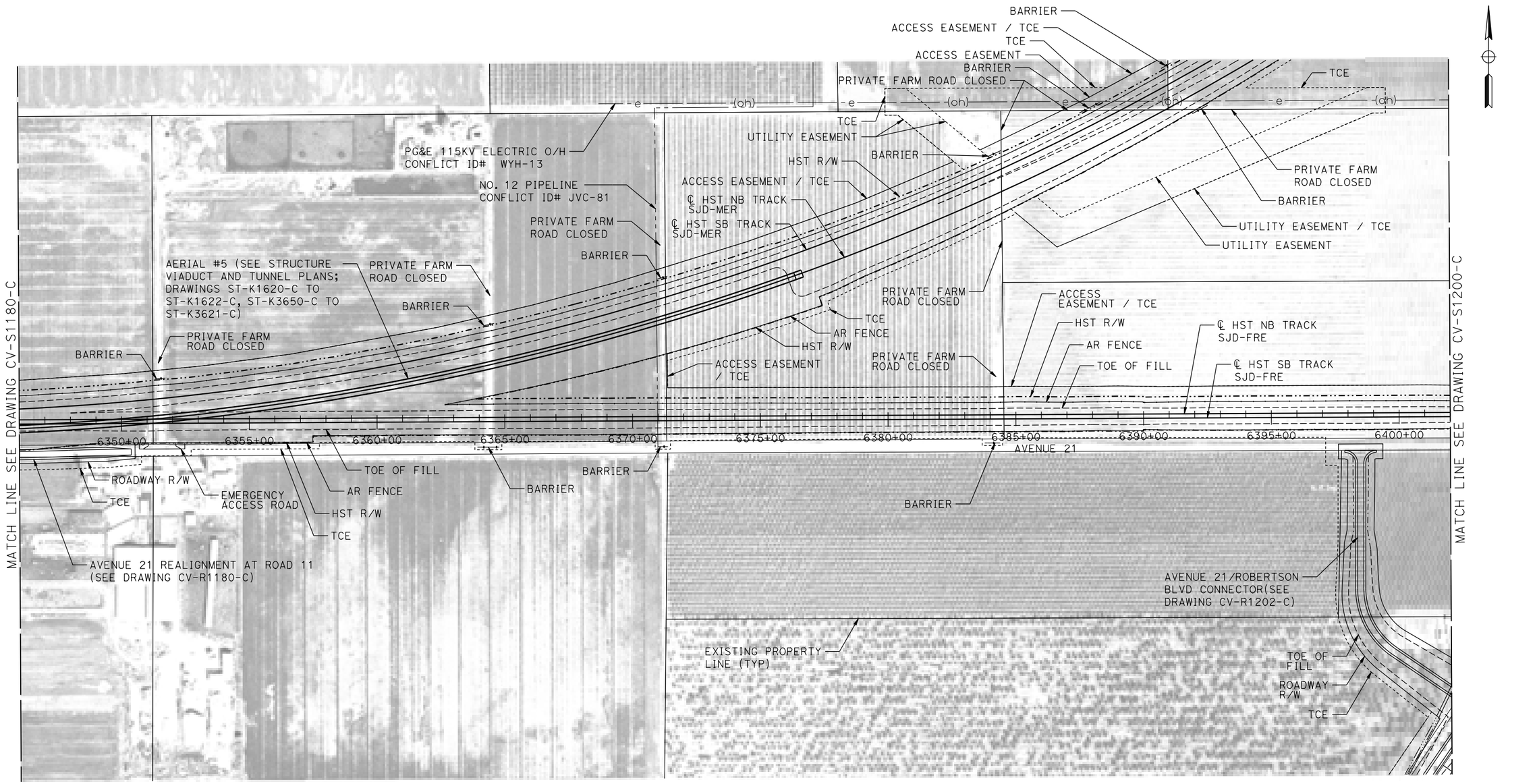
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6290+00 TO 6346+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1180-C
SCALE 1"=200'
SHEET NO.

p0051133A 17-MAR-2016 21:23 MF-CV-S1180-C.dgn

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

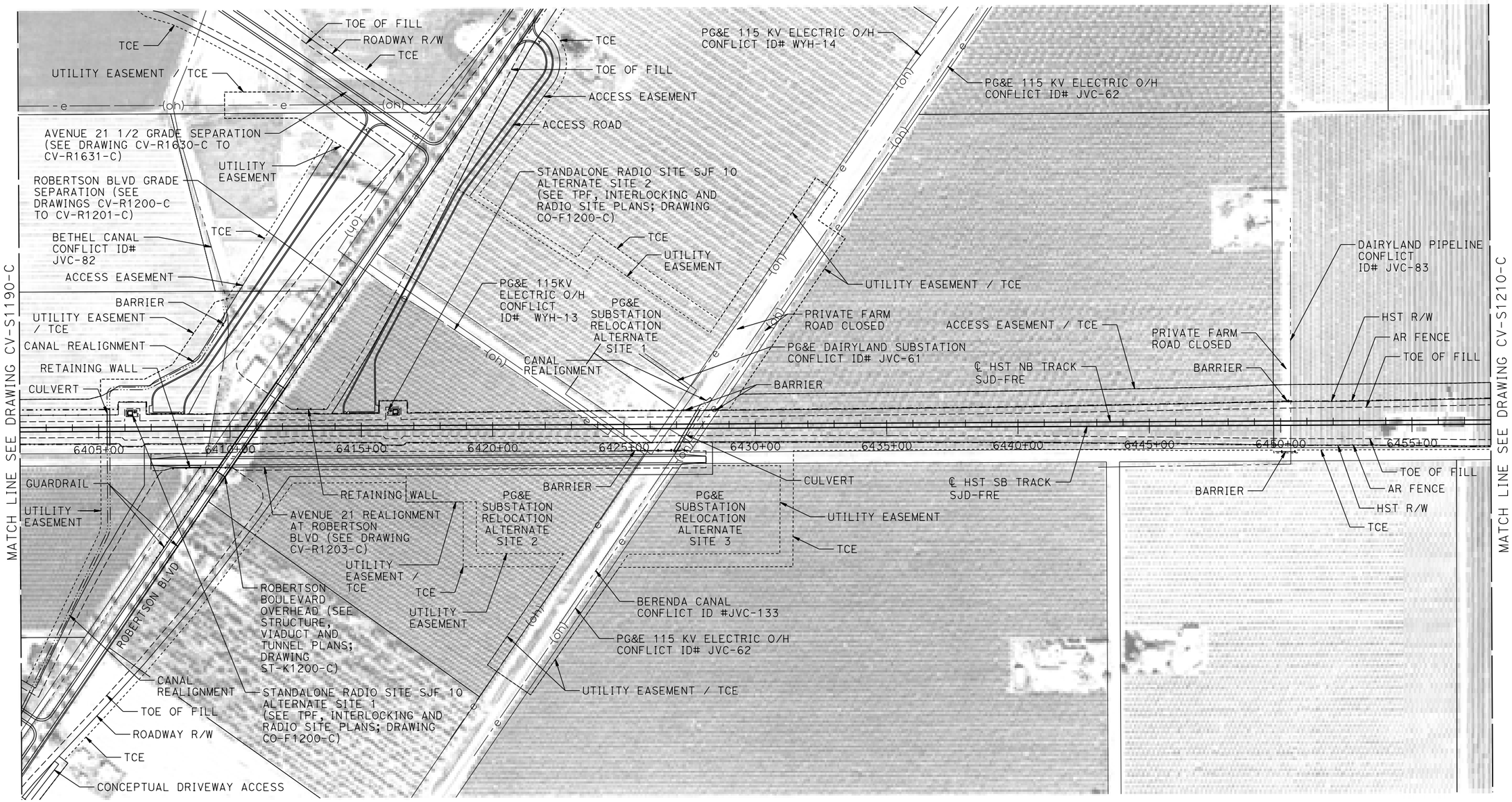
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6346+00 TO 6402+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1190-C
SCALE 1"=200'
SHEET NO.

17-MAR-2016 1:24
MF-CV-S1190-C.dgn
p0051133A

## MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

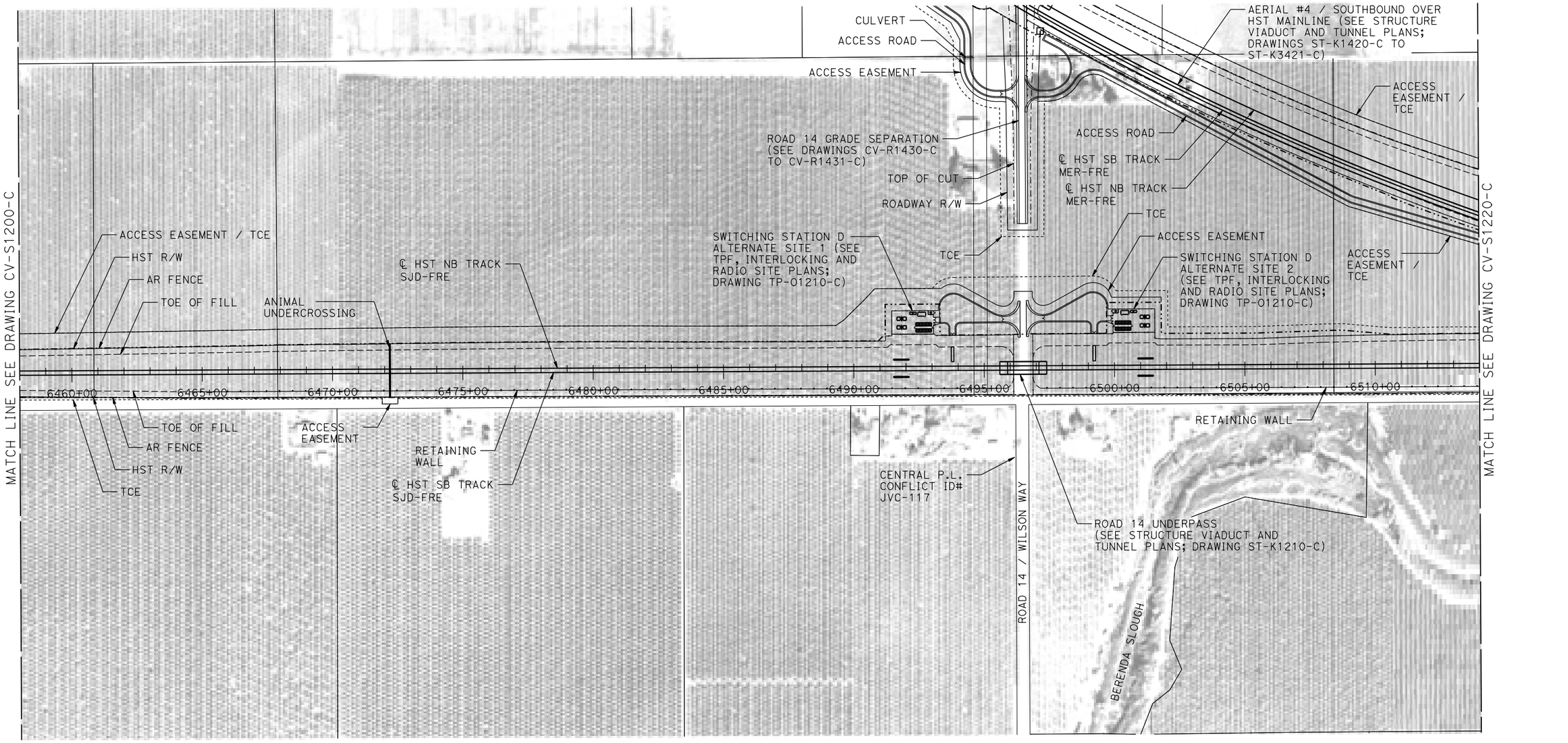
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6402+00 TO 6458+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1200-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1200-C.dgn
17-MAR-2016 21:25
p0051334

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

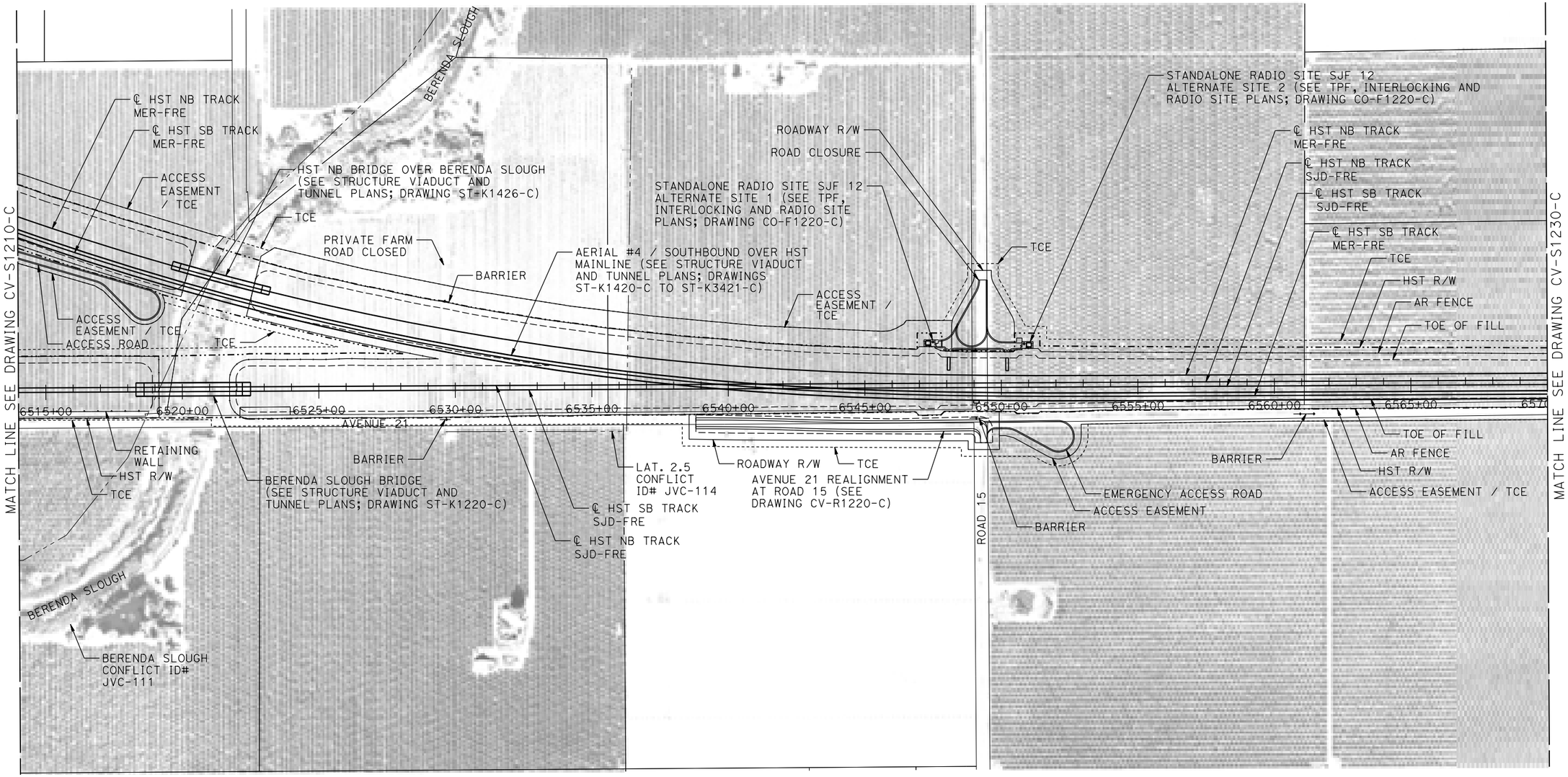
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6458+00 TO 6514+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1210-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1210-C.dgn
17-MAR-2016 21:26
p0051334

## MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

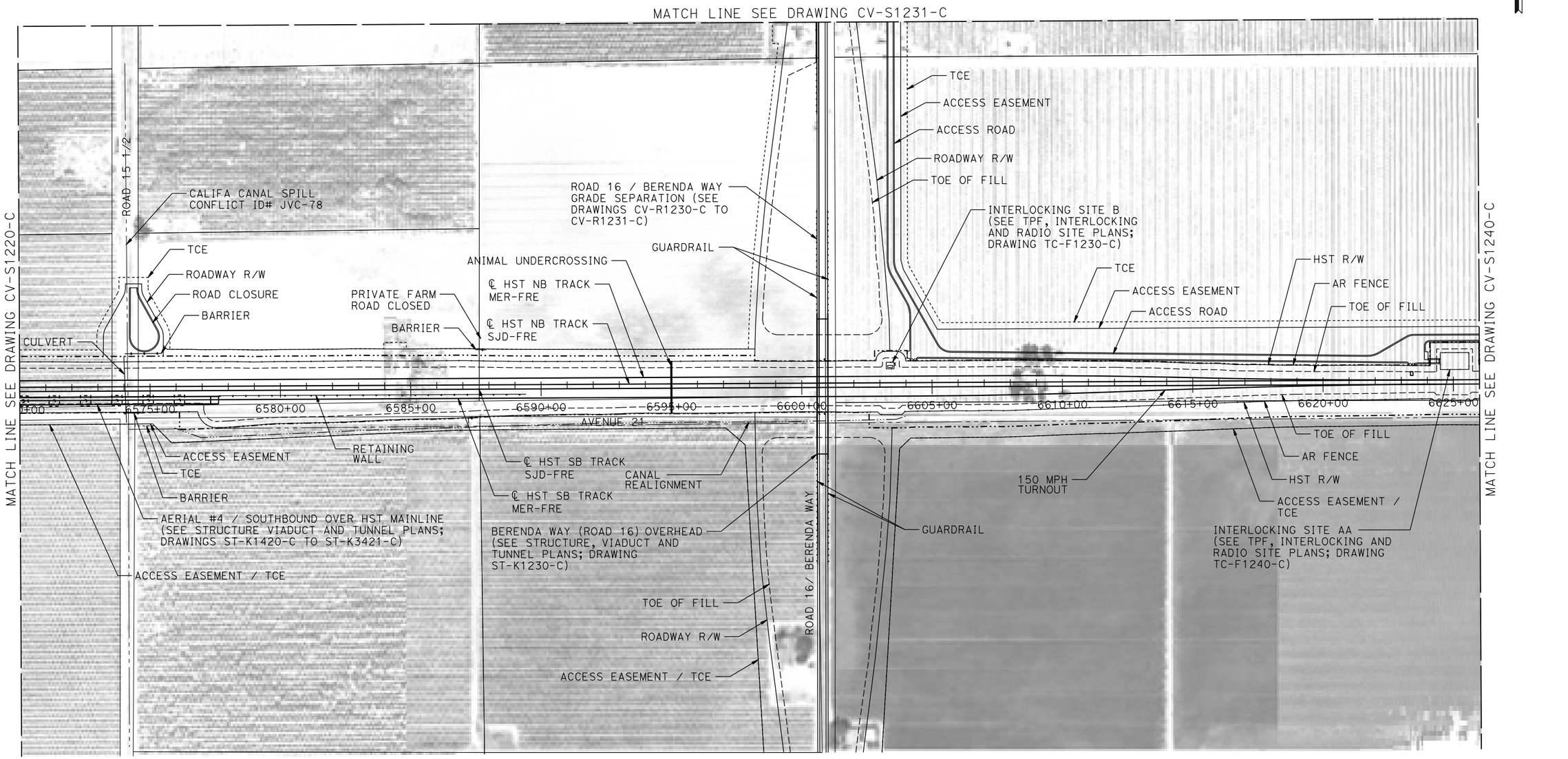
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6514+00 TO 6570+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1220-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1220-C.dgn
17-MAR-2016 21:28
p0051334

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6570+00 TO 6626+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1230-C
SCALE 1"=200'
SHEET NO.

17-MAR-2016 21:29
MF-CV-S1230-C.dgn
p0051133A

**MADERA COUNTY**

**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

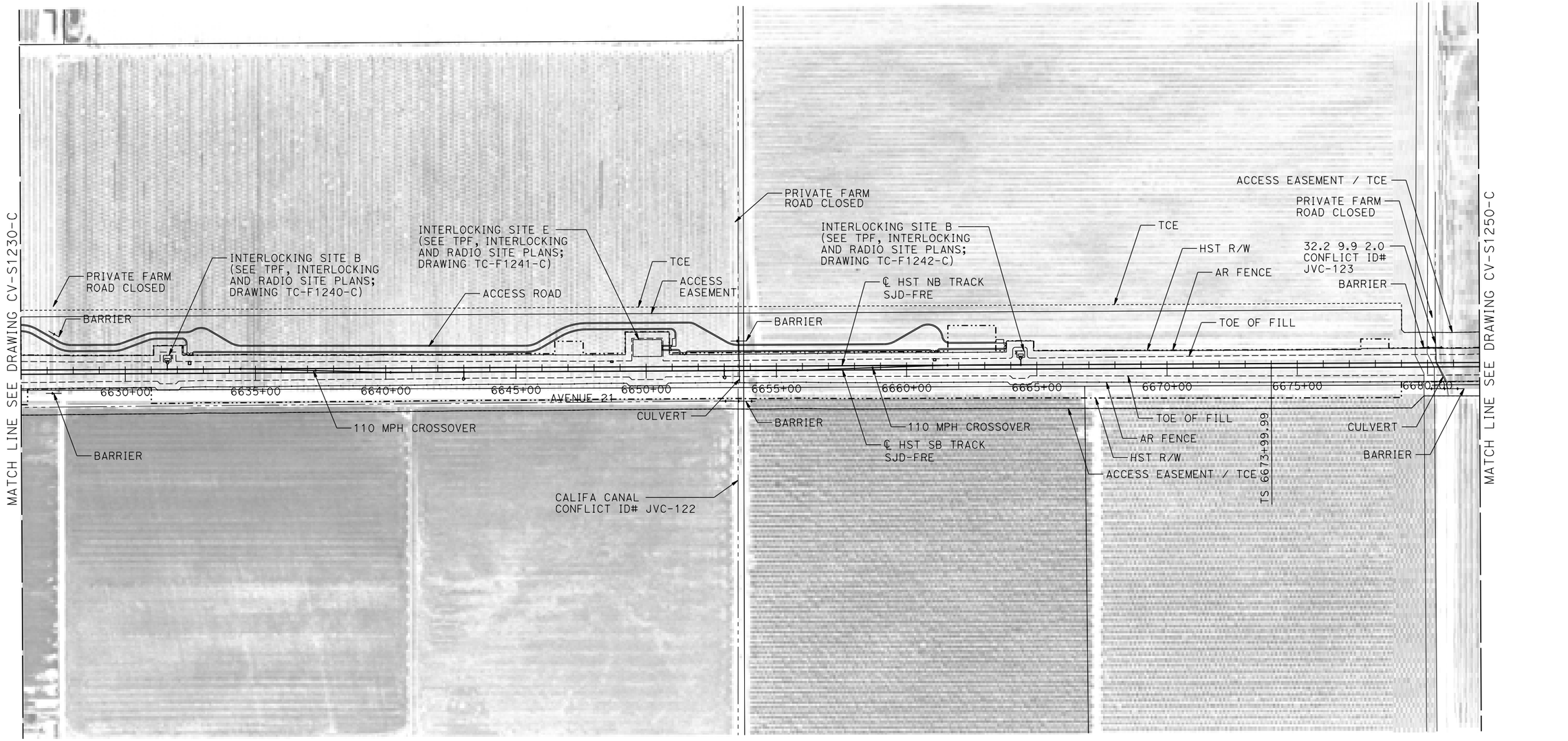
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE ACCESS ROAD

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1231-C
SCALE 1"=200'
SHEET NO.

17-MAR-2016 21:30
MF-CV-S1231-C.dgn
p0051133A

## MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

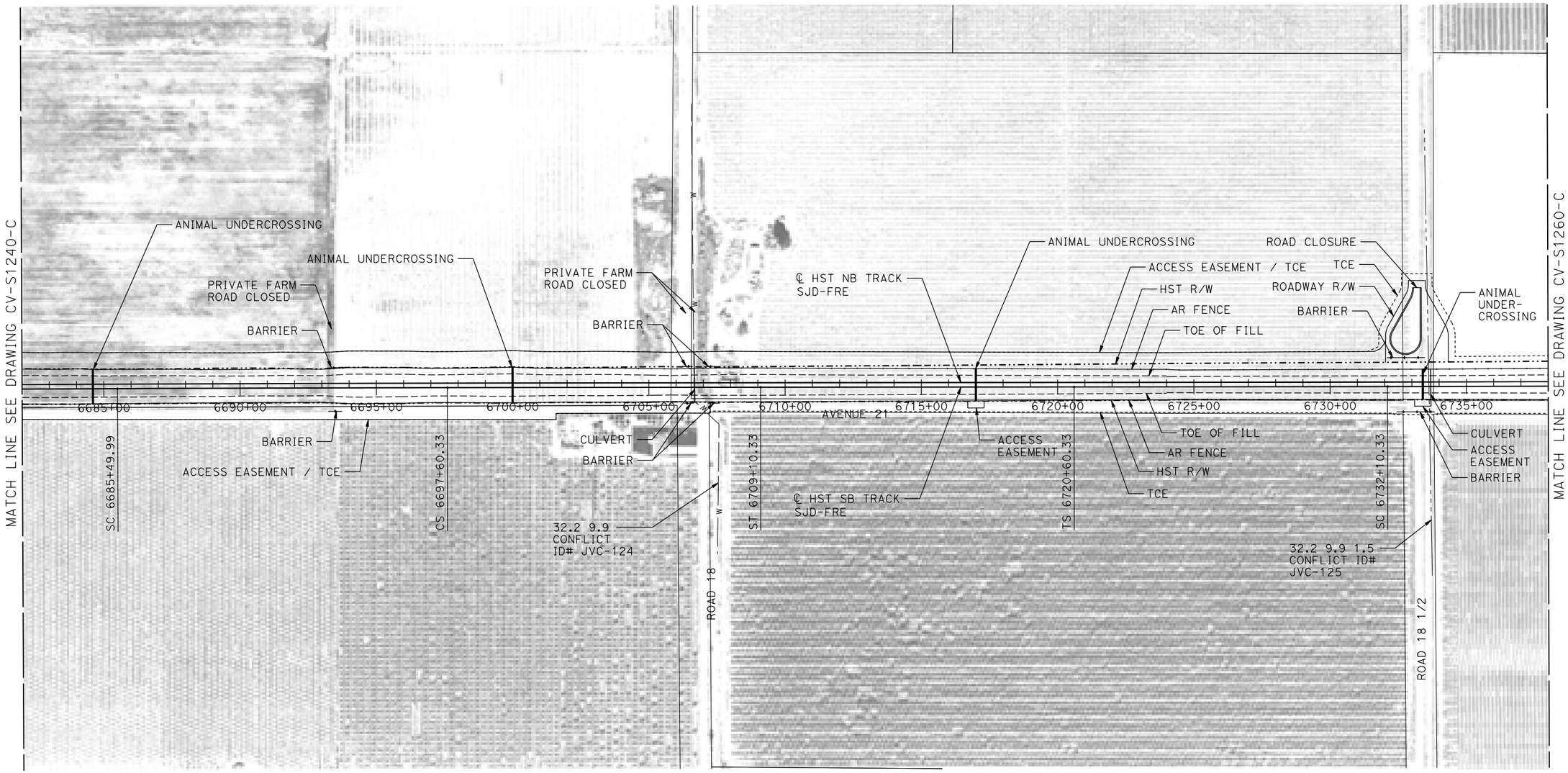
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6626+00 TO 6682+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1240-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1240-C.dgn
17-MAR-2016 21:30
p0051334

# MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

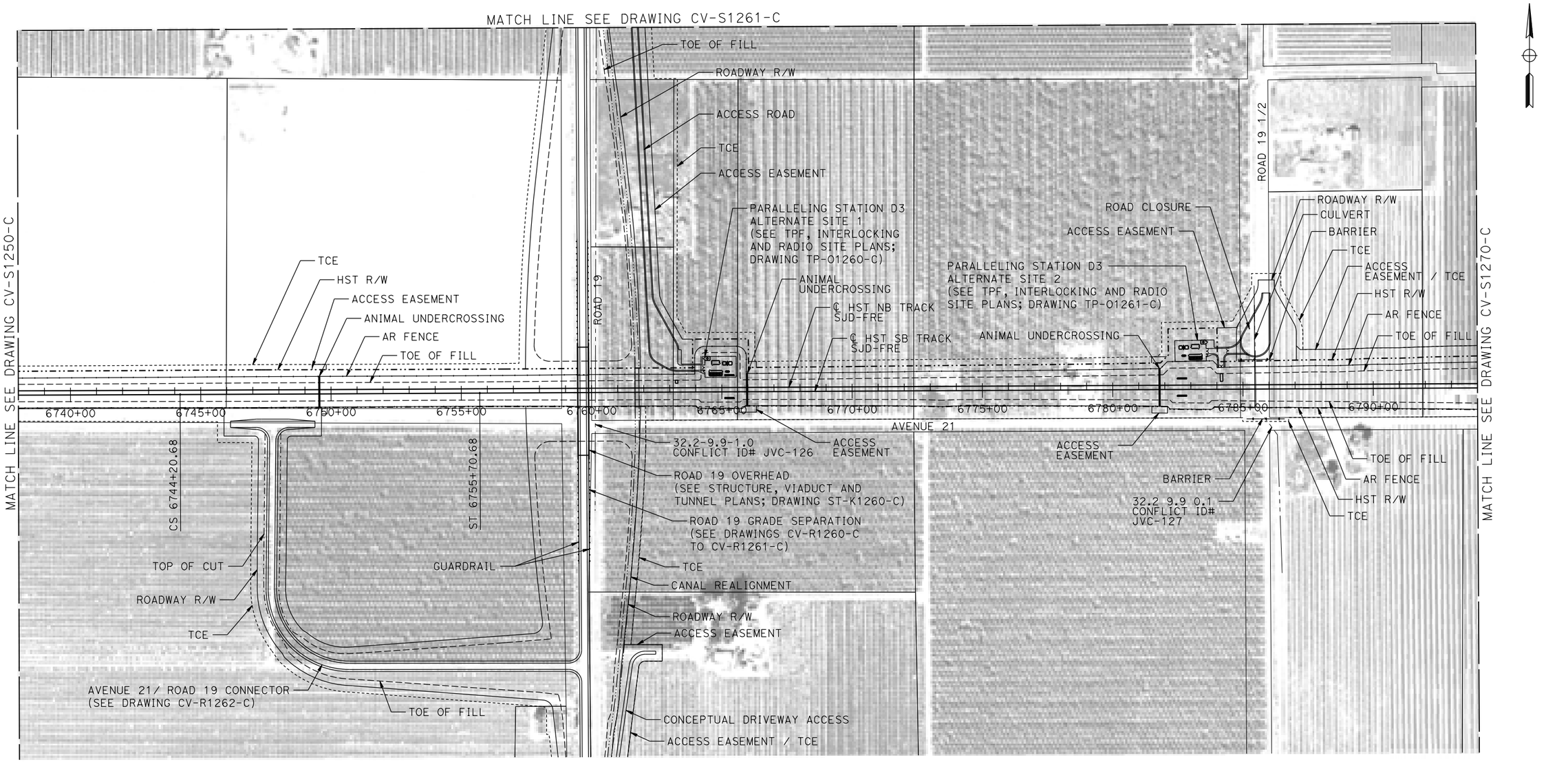
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6682+00 TO 6738+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1250-C
SCALE 1"=200'
SHEET NO.

17-MAR-2016 21:31
MF-CV-S1250-C.dgn
p0051133A

# MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6738+00 TO 6794+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1260-C
SCALE 1"=200'
SHEET NO.

p0051133A 17-MAR-2016 21:32 MF-CV-S1260-C.dgn

MADERA COUNTY

MATCH LINE SEE DRAWING CV-S1260-C

# PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
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IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

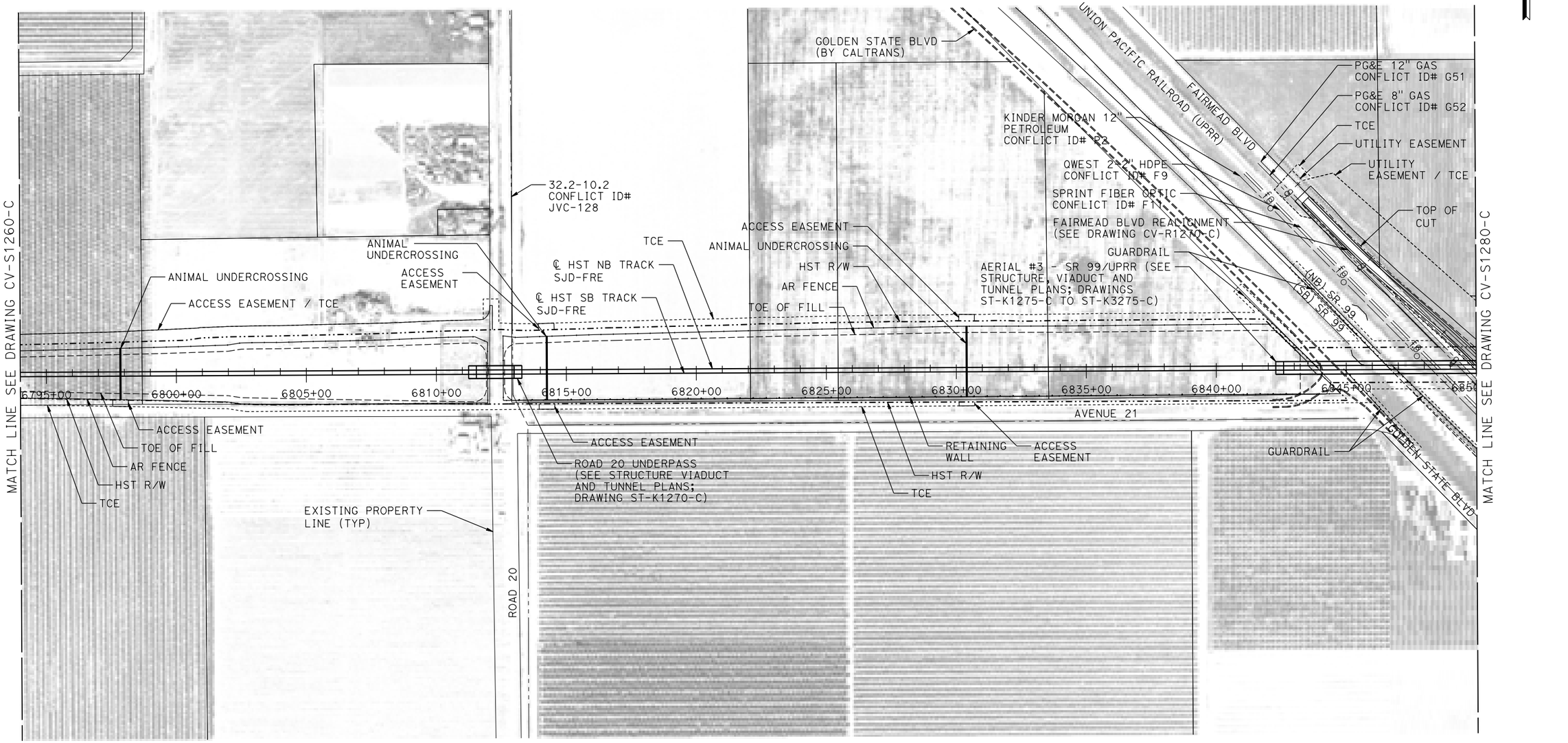
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE ACCESS ROAD

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1261-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1261-C.dgn
17-MAR-2016 21:33
p0051334

## MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: M. STANWIC
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

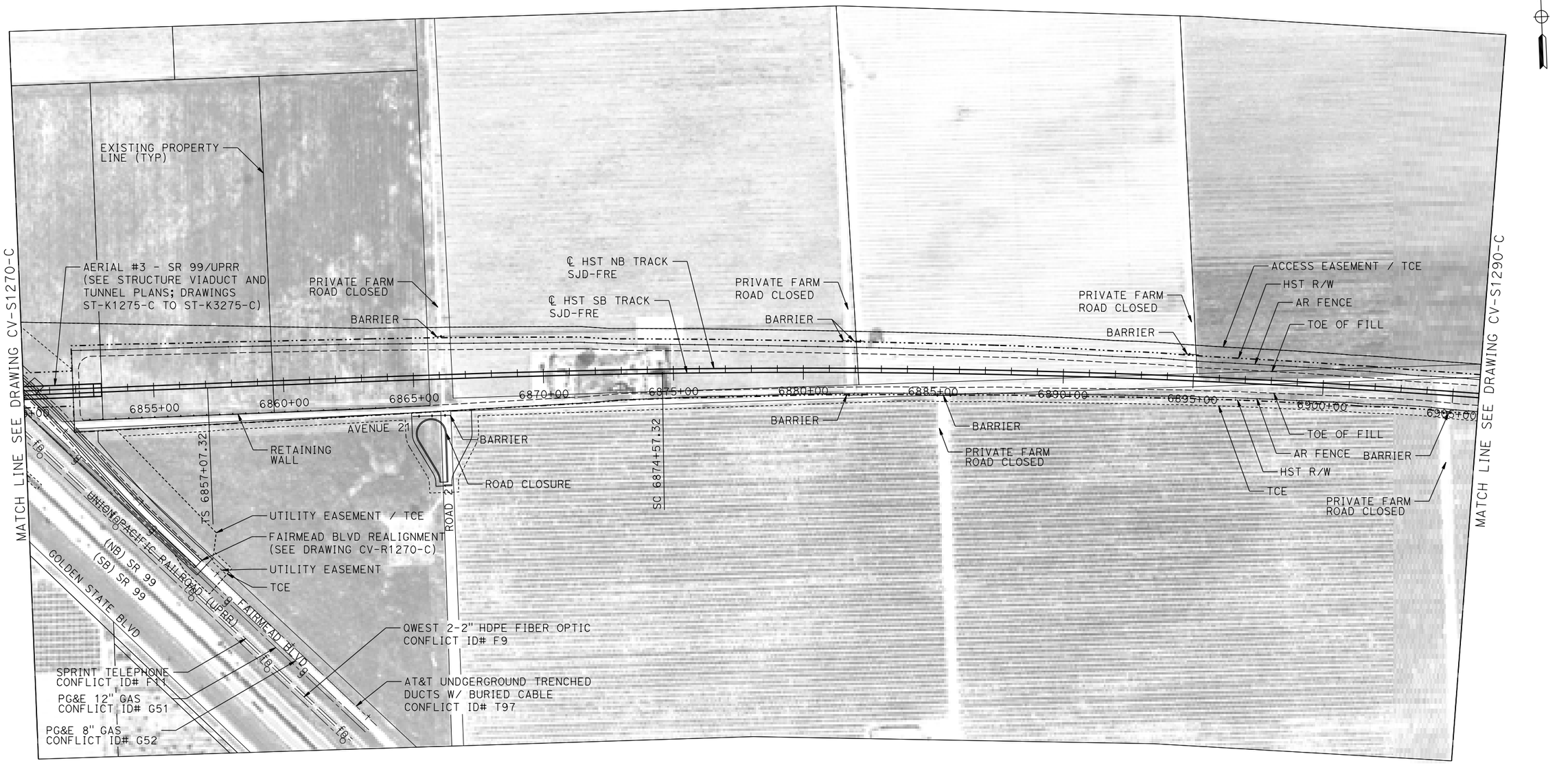
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6794+00 TO 6850+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1270-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1270-C.dgn
17-MAR-2016 21:34
p0051334

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
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**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

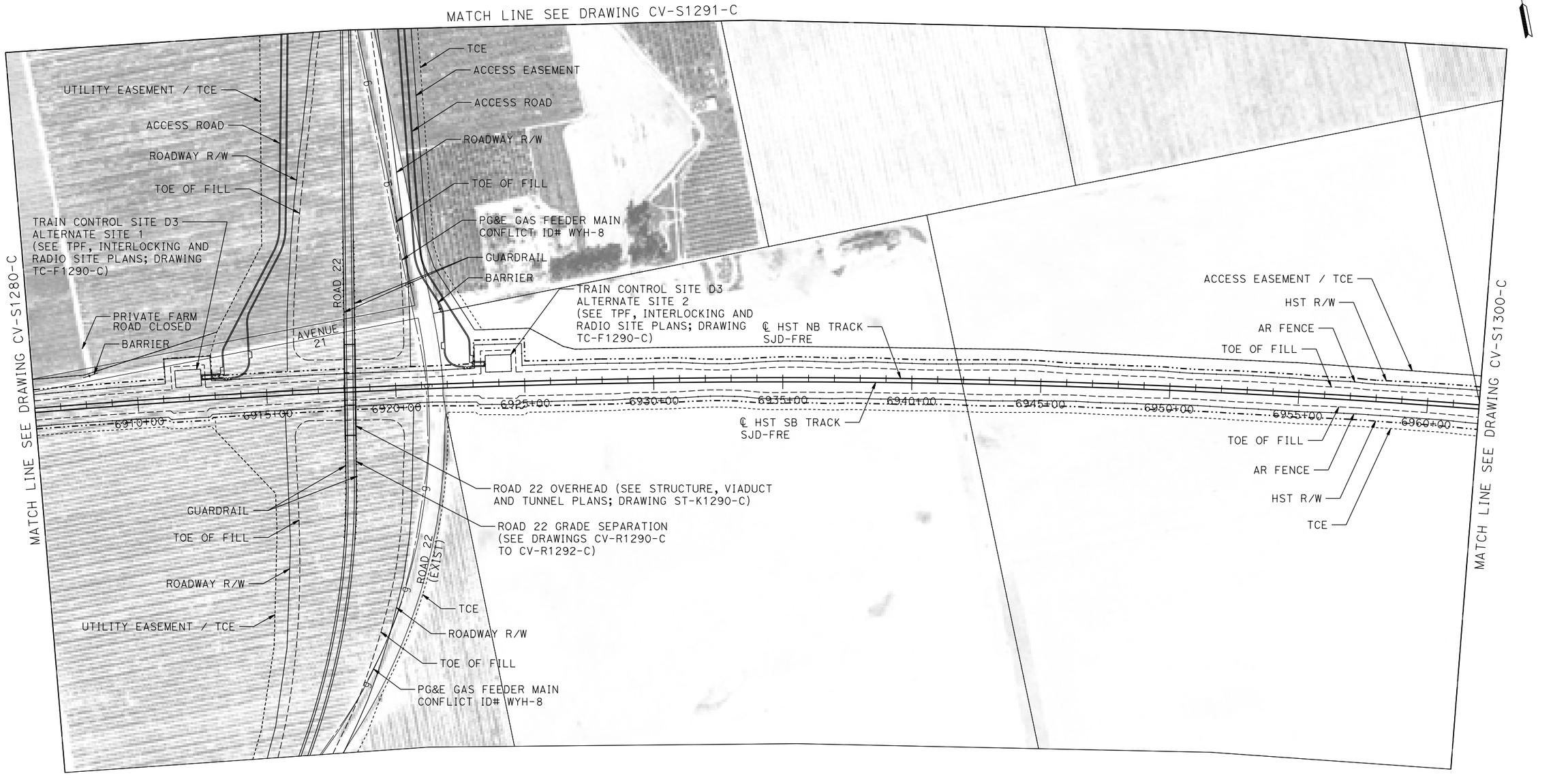
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6850+00 TO 6906+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1280-C
SCALE 1"=200'
SHEET NO.

18-MAR-2016 3:52
MF-CV-S1280-C.dgn
p0051334

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: M. STANWIC
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6906+00 TO 6962+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1290-C
SCALE 1"=200'
SHEET NO.

p0051334 17-MAR-2016 21:36 MF-CV-S1290-C.dgn

## MADERA COUNTY

## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

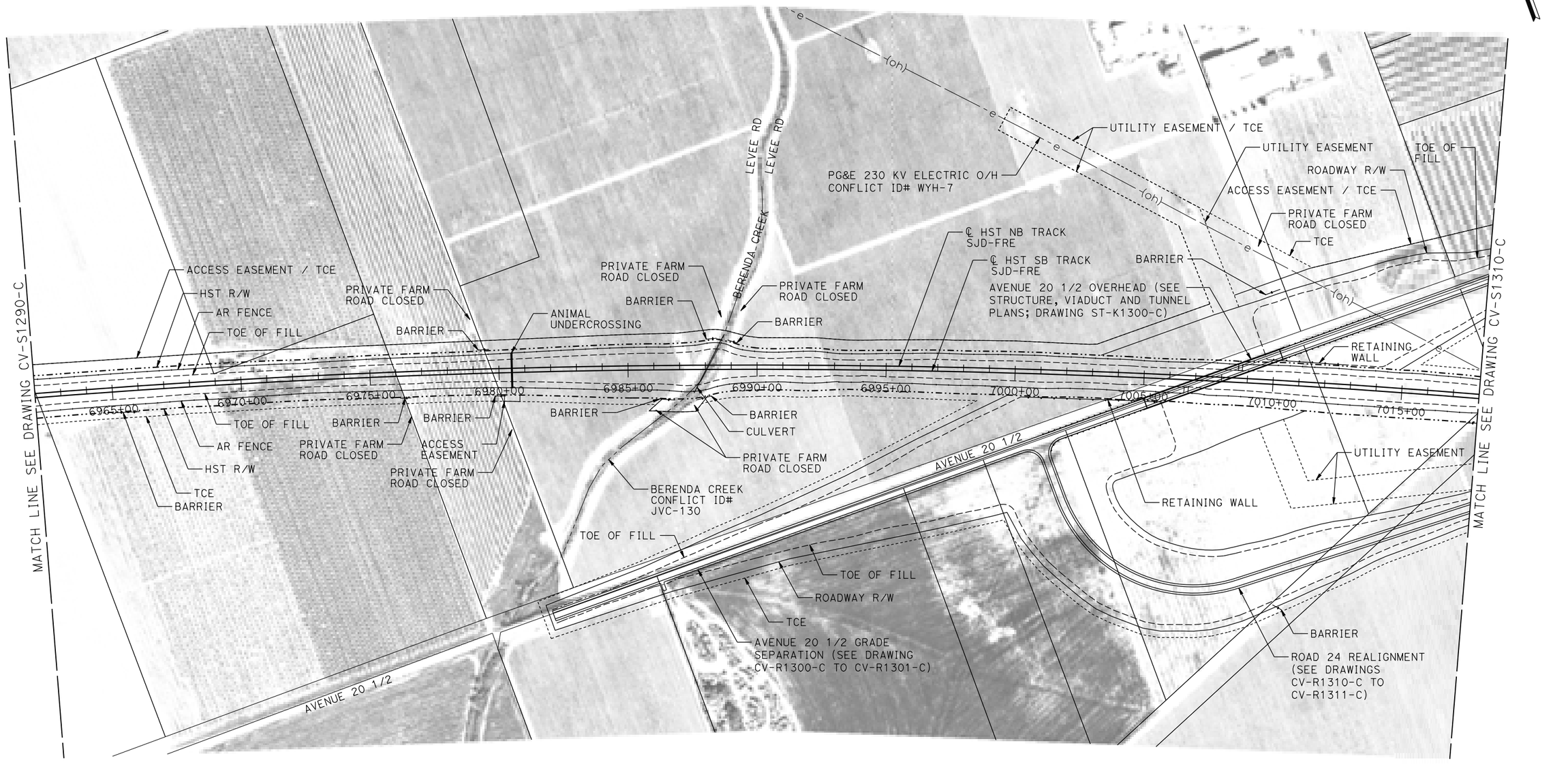
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE ACCESS ROAD

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1291-C
SCALE 1"=200'
SHEET NO.

p0051133A 18-MAR-2016 13:53 MF-CV-S1291-C.dgn

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
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IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
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**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

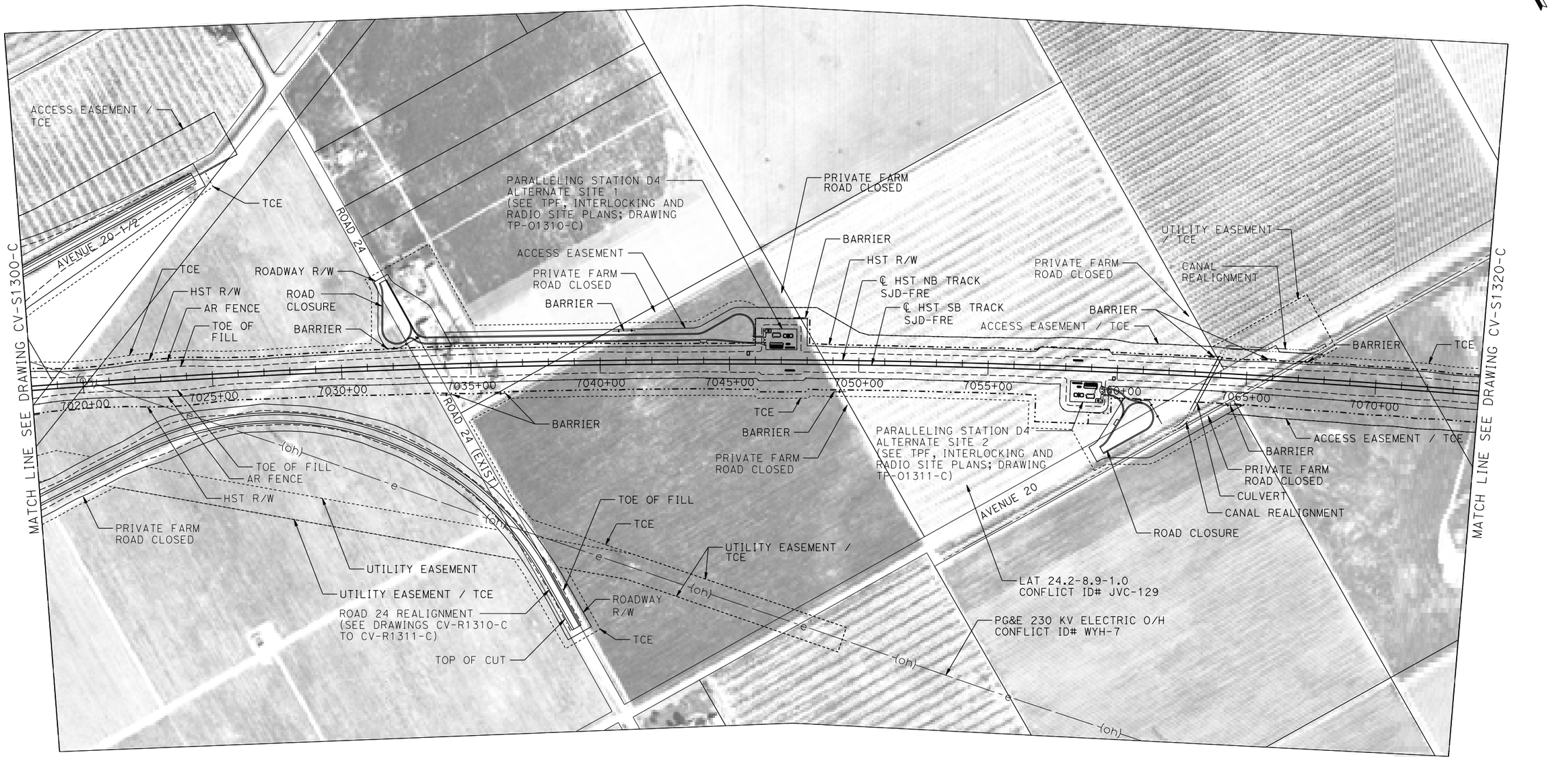
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 6962+00 TO 7018+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1300-C
SCALE 1"=200'
SHEET NO.

17-MAR-2016 21:37
MF-CV-S1300-C.dgn
p0051334

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

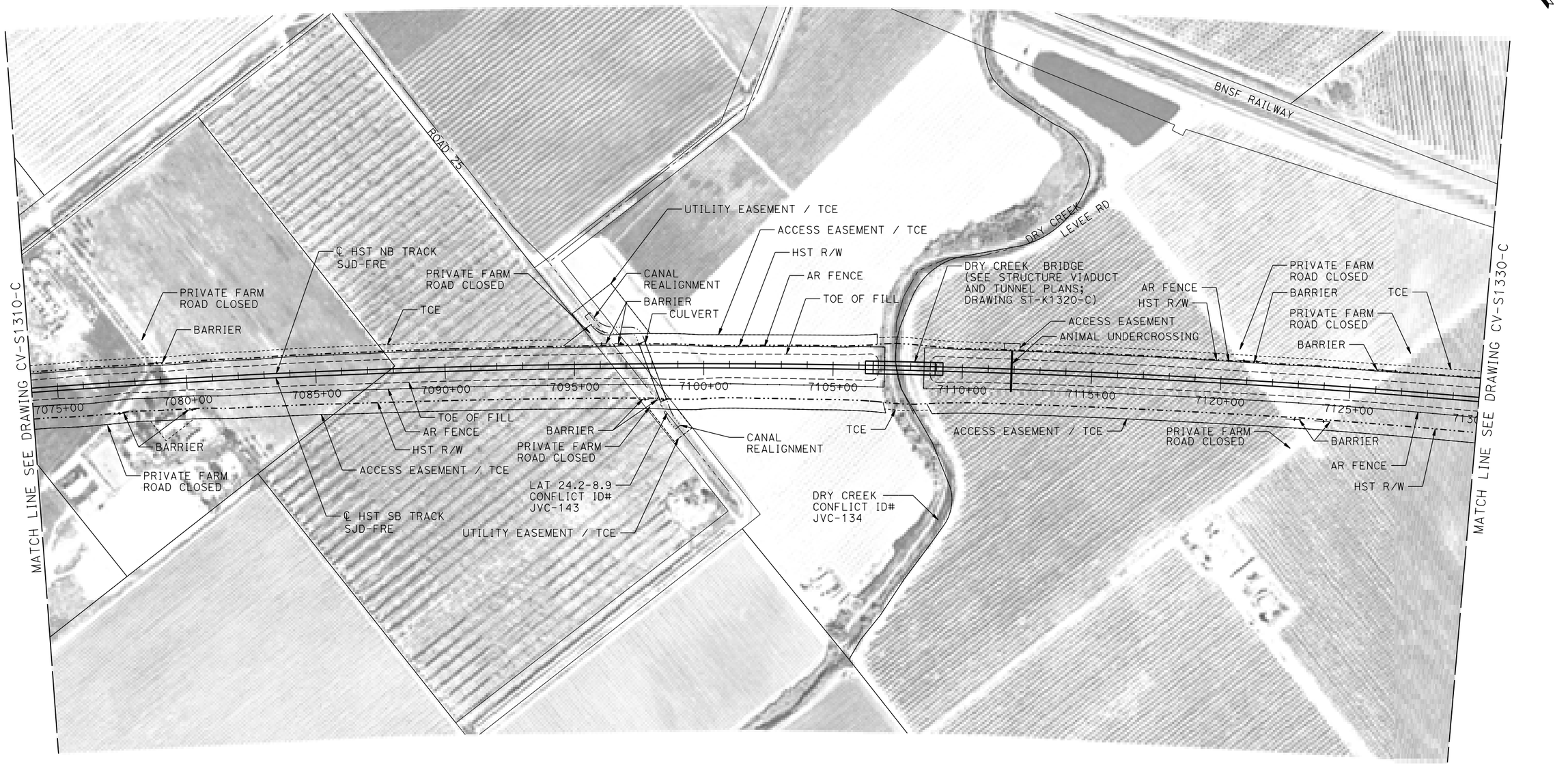
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 7018+00 TO 7074+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1310-C
SCALE 1"=200'
SHEET NO.

p005133A 17-MAR-2016 21:37 MF-CV-S1310-C.dgn

# MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

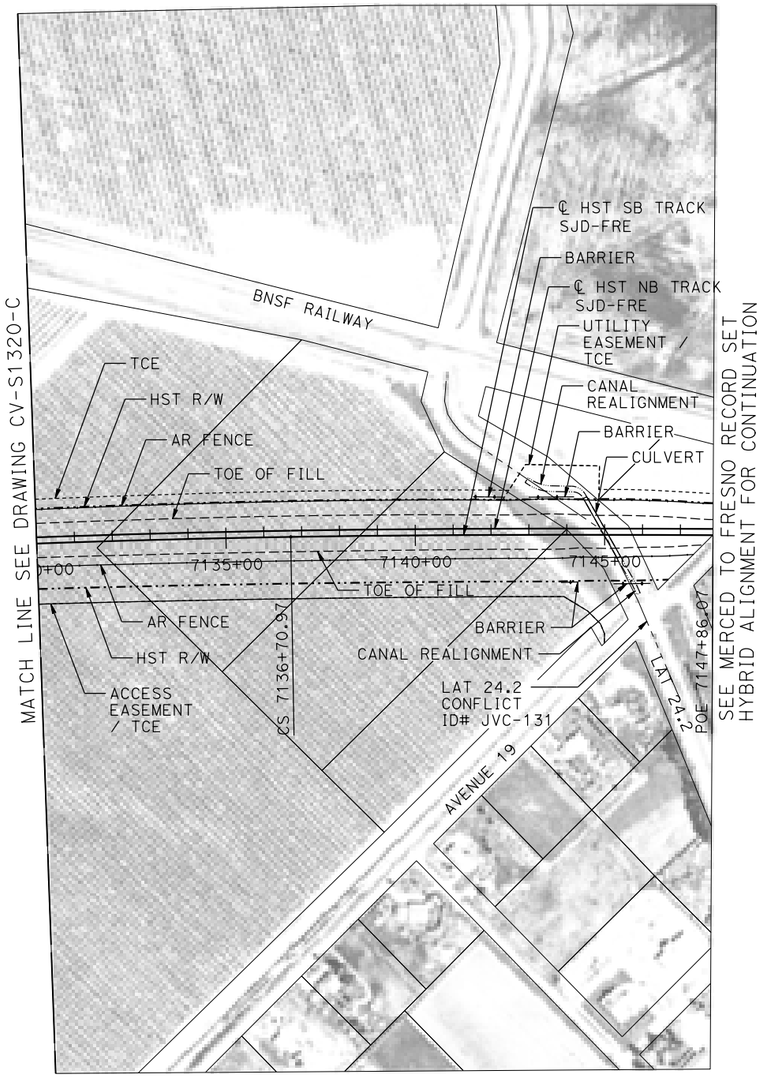
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 7074+00 TO 7130+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1320-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1320-C.dgn
17-MAR-2016 21:38
p005133A

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

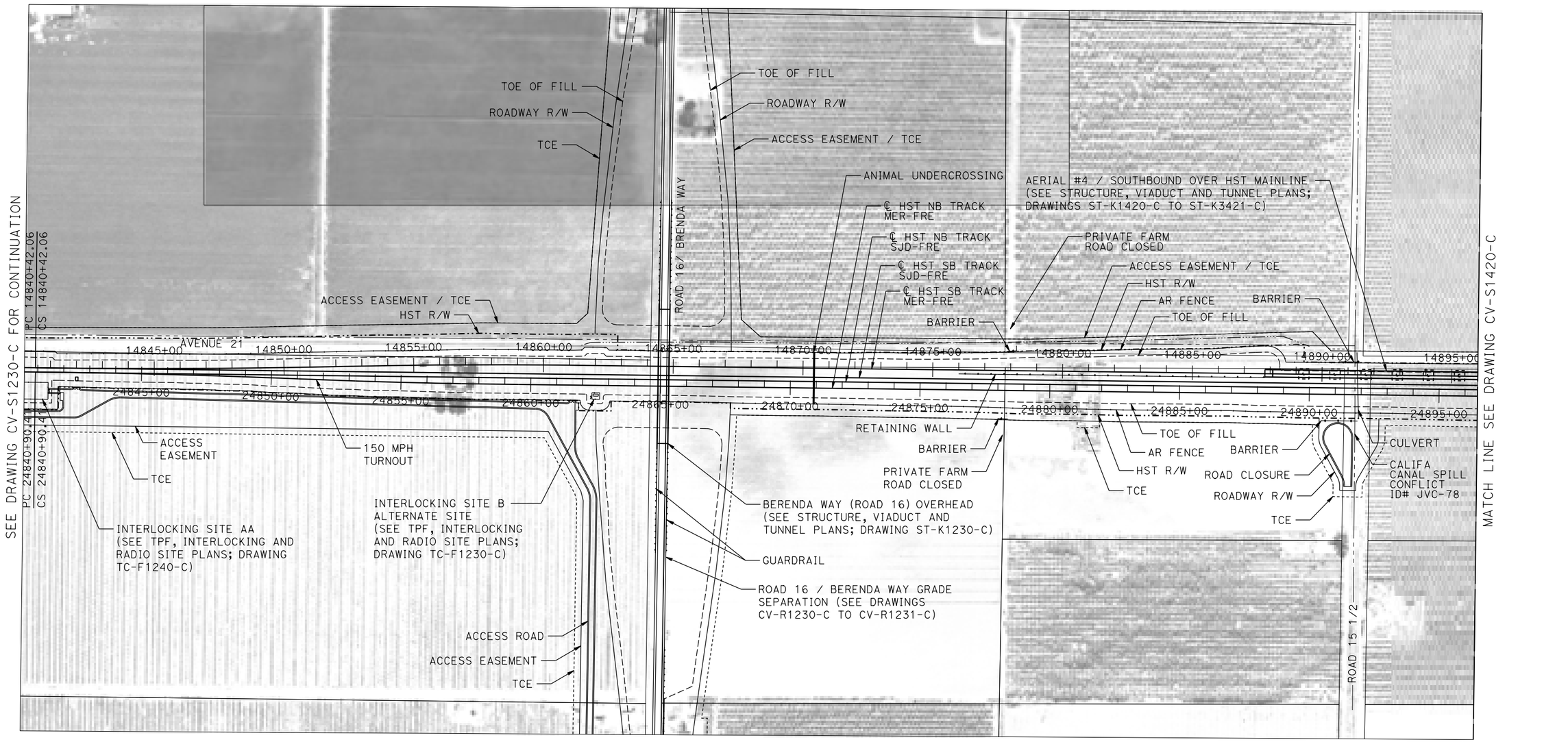
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-FRE STA 7130+00 TO 7147+86.07

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1330-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1330-C.dgn
18-MAR-2016 13:53
p0051133A

## MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

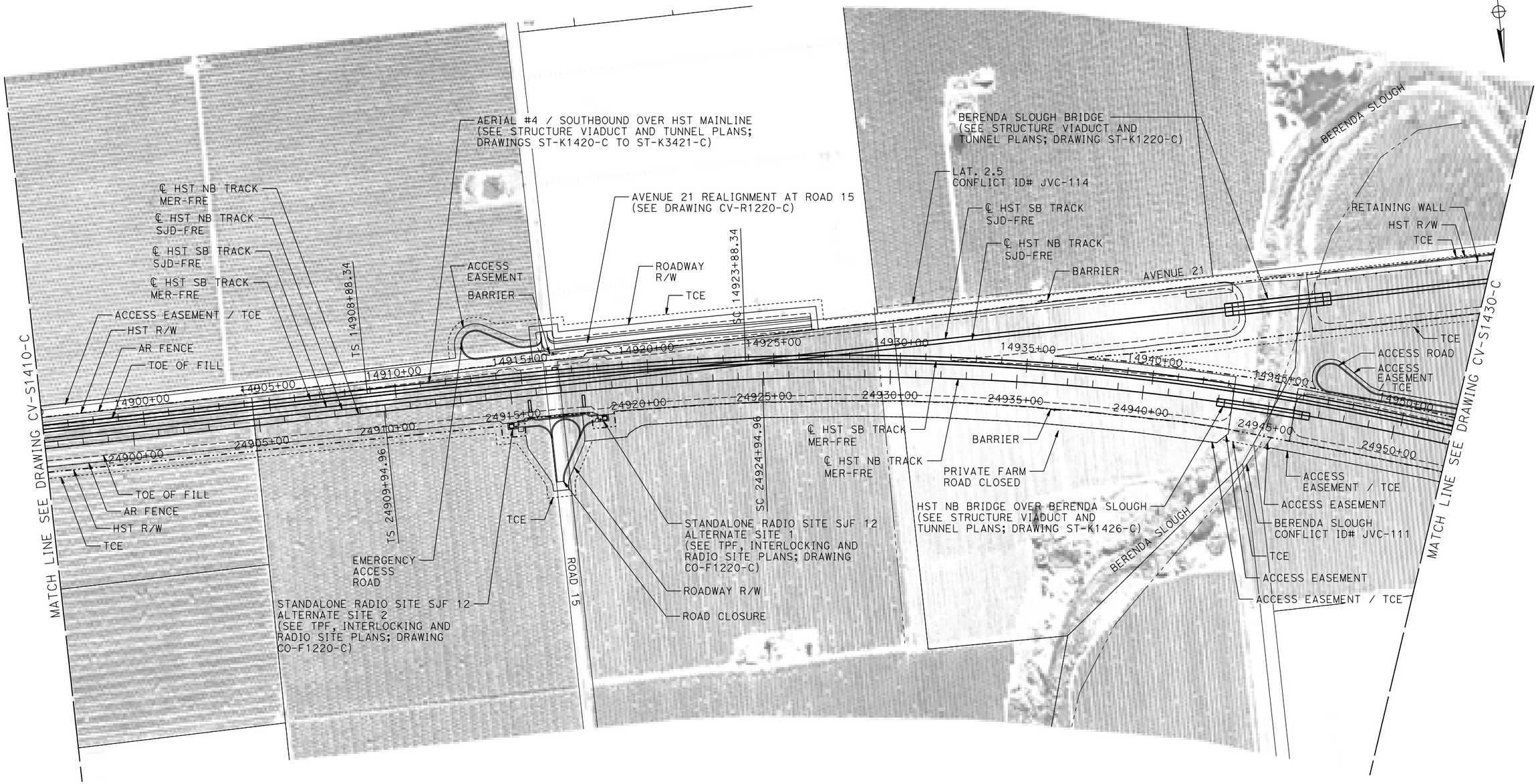
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 14840+00 TO 14896+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1410-C
SCALE 1"=200'
SHEET NO.

p005133A 17-MAR-2016 21:39 MF-CV-S1410-C.dgn

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

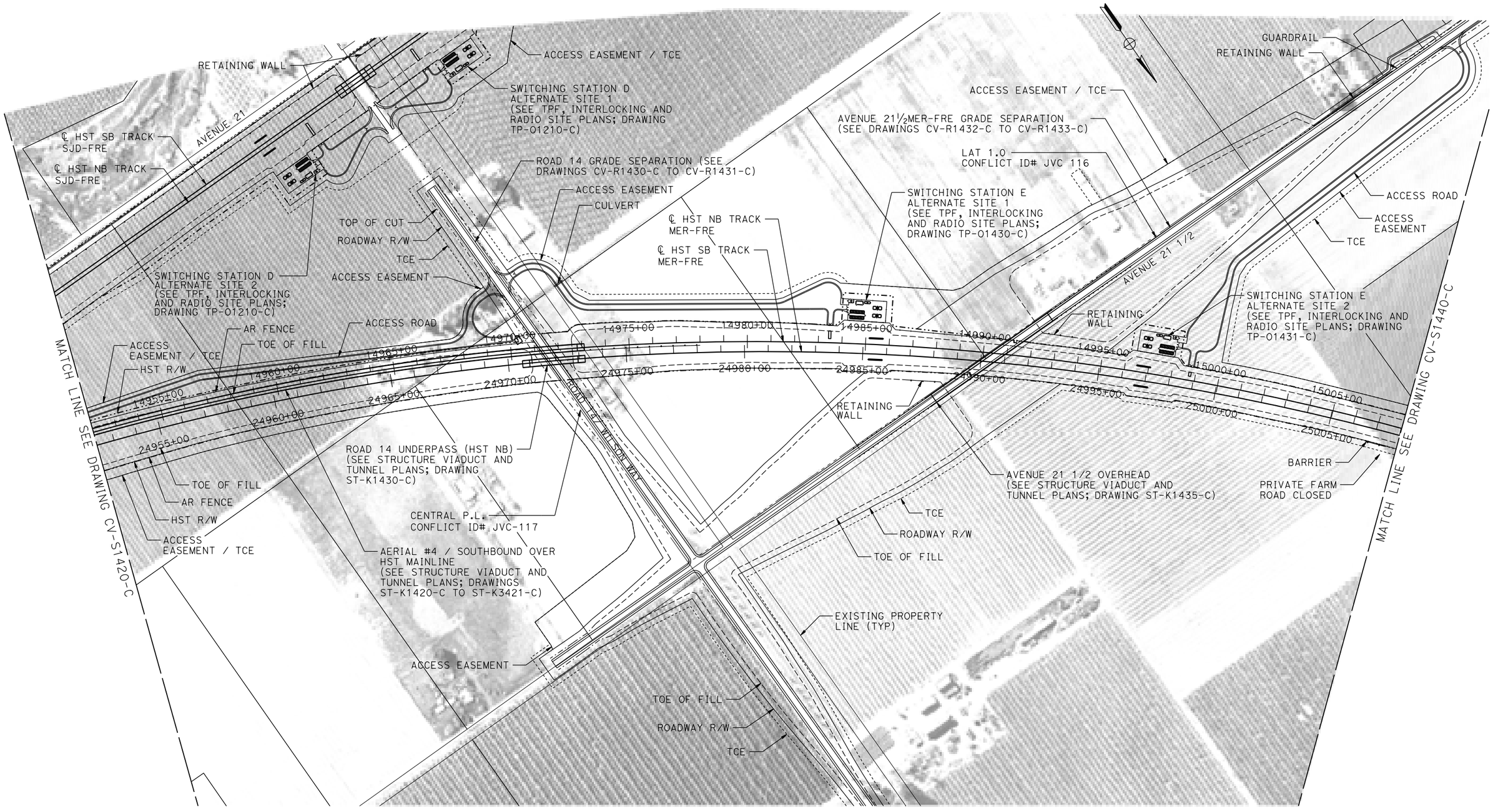
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 14896+00 TO 14952+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1420-C
SCALE 1"=200'
SHEET NO.

17-MAR-2016 21:40 MF-CV-S1420-C.dgn p0051133A

# MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

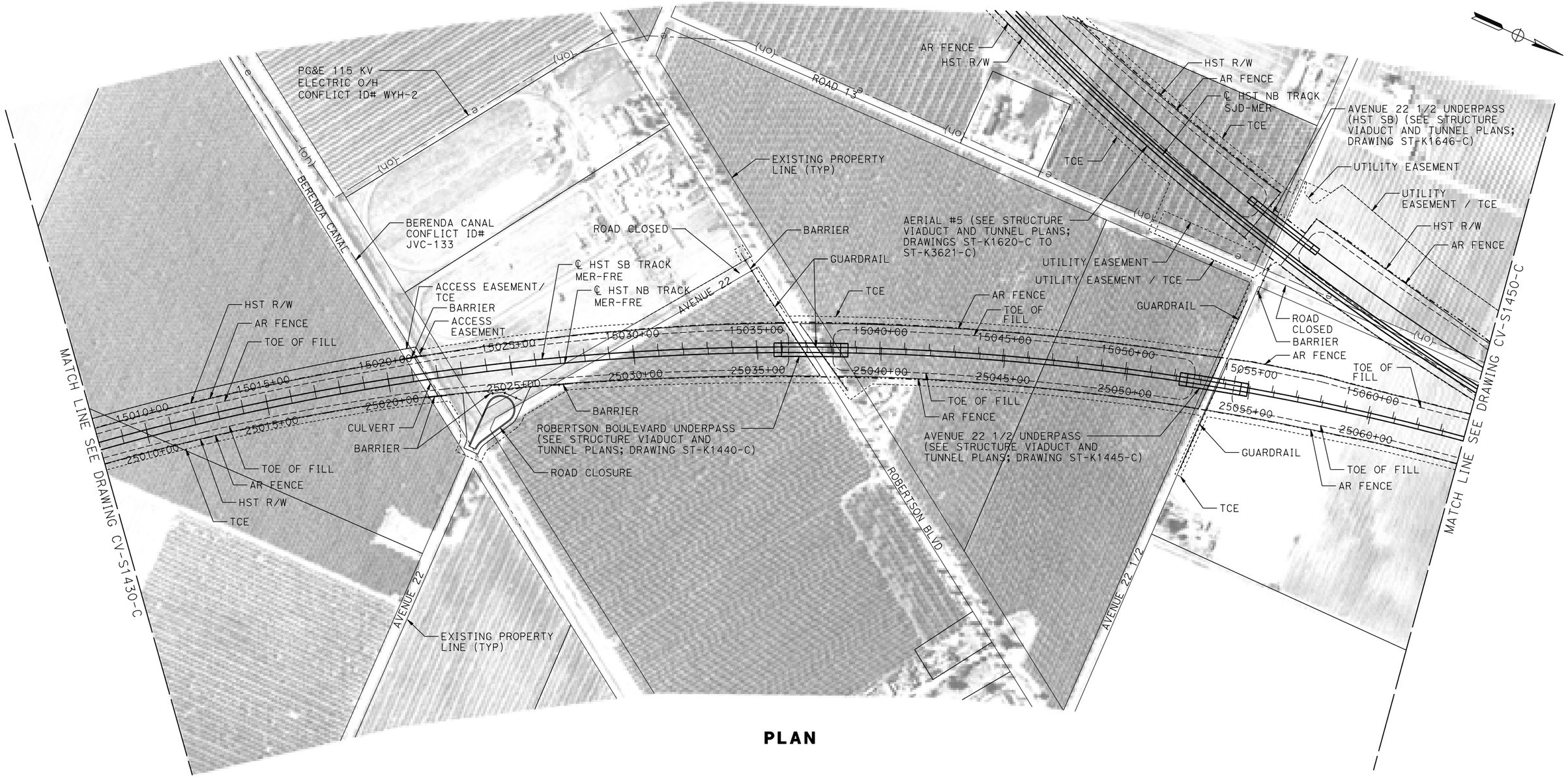
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 14952+00 TO 15008+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1430-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1430-C.dgn
17-MAR-2016 21:41
p005133A

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: M. STANWIC
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

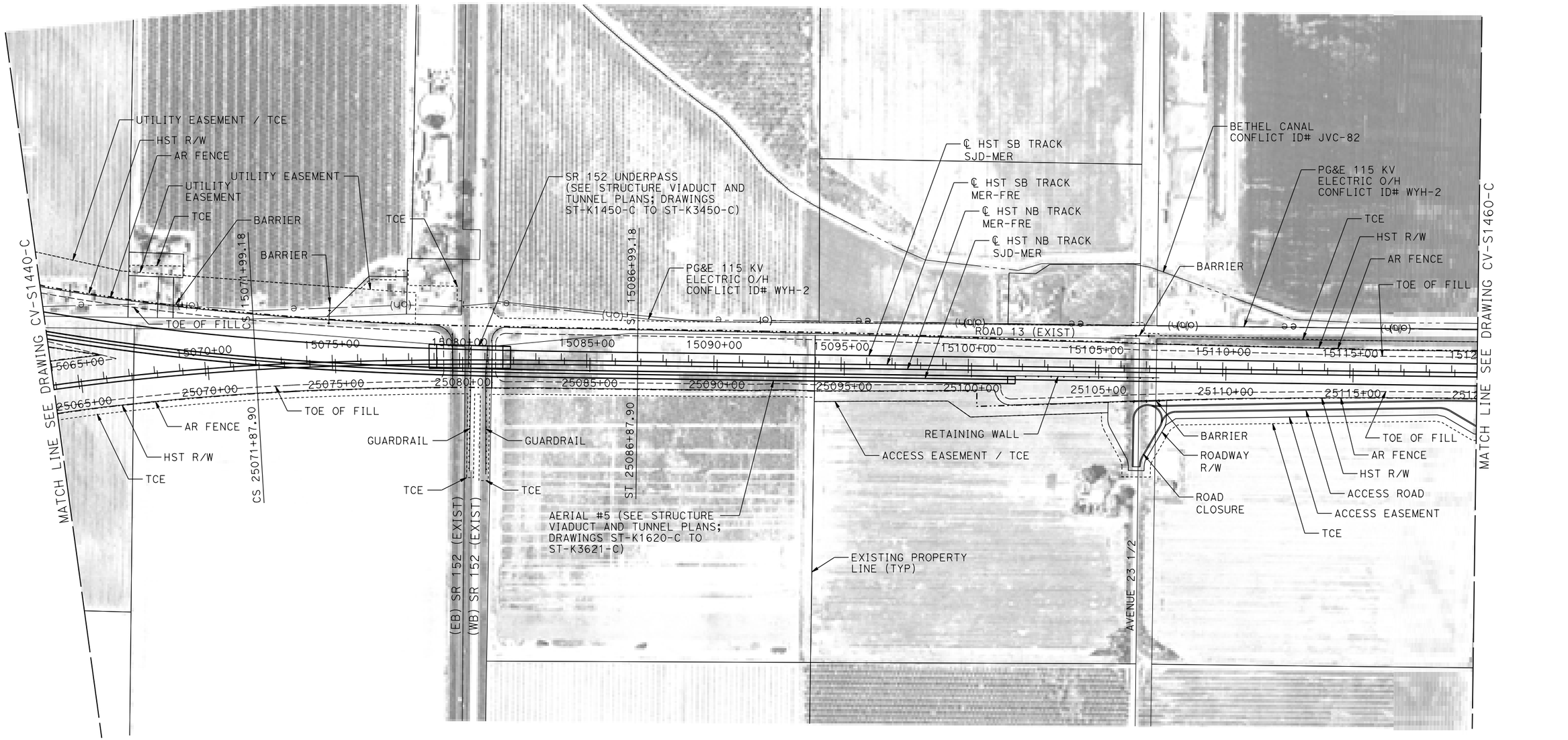
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 15008+00 TO 15064+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1440-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1440-C.dgn
18-MAR-2016 14:53
p005133A

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

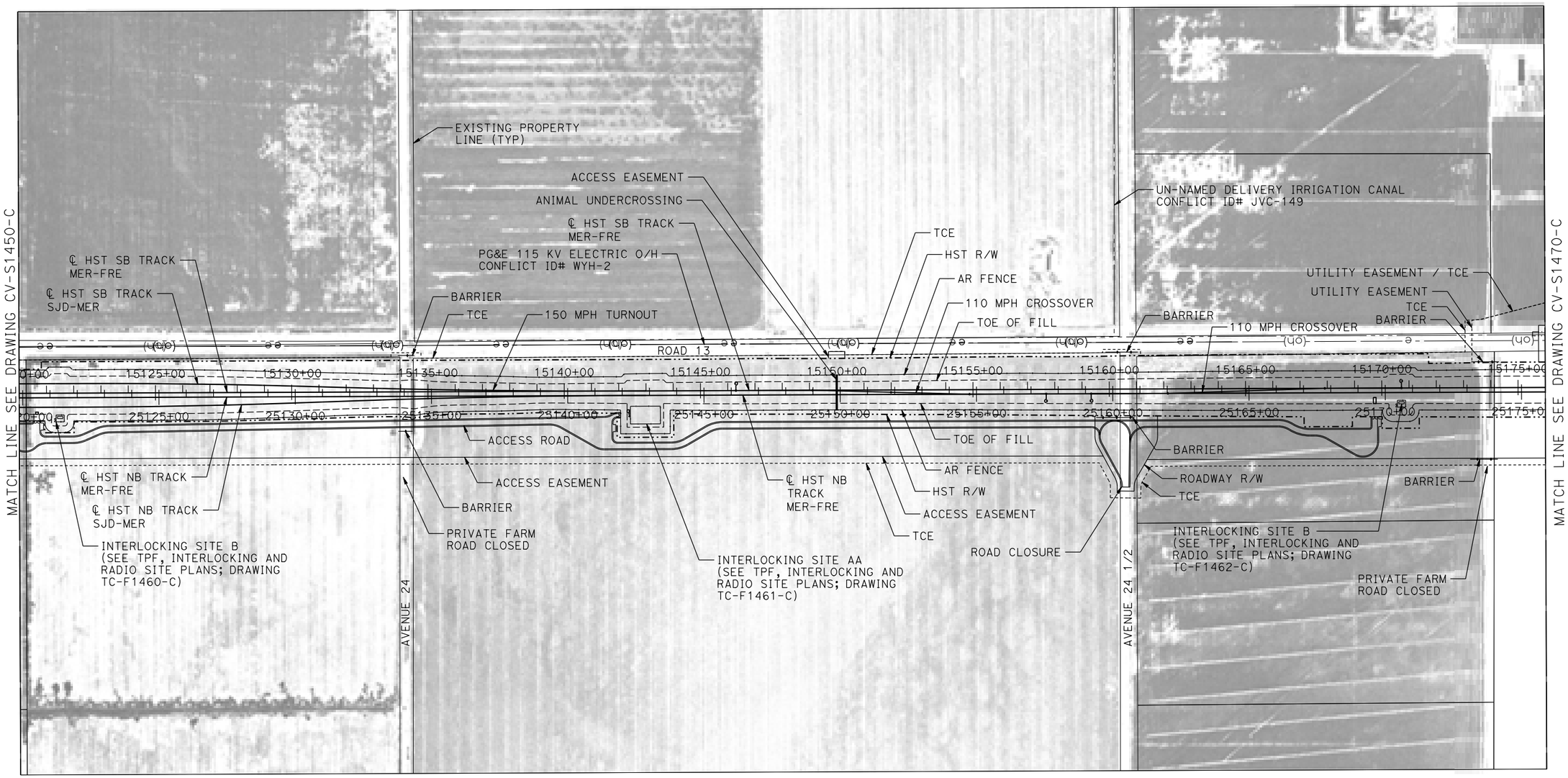
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 15064+00 TO 15120+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1450-C
SCALE 1"=200'
SHEET NO.

p005133A 17-MAR-2016 21:43 MF-CV-S1450-C.dgn

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

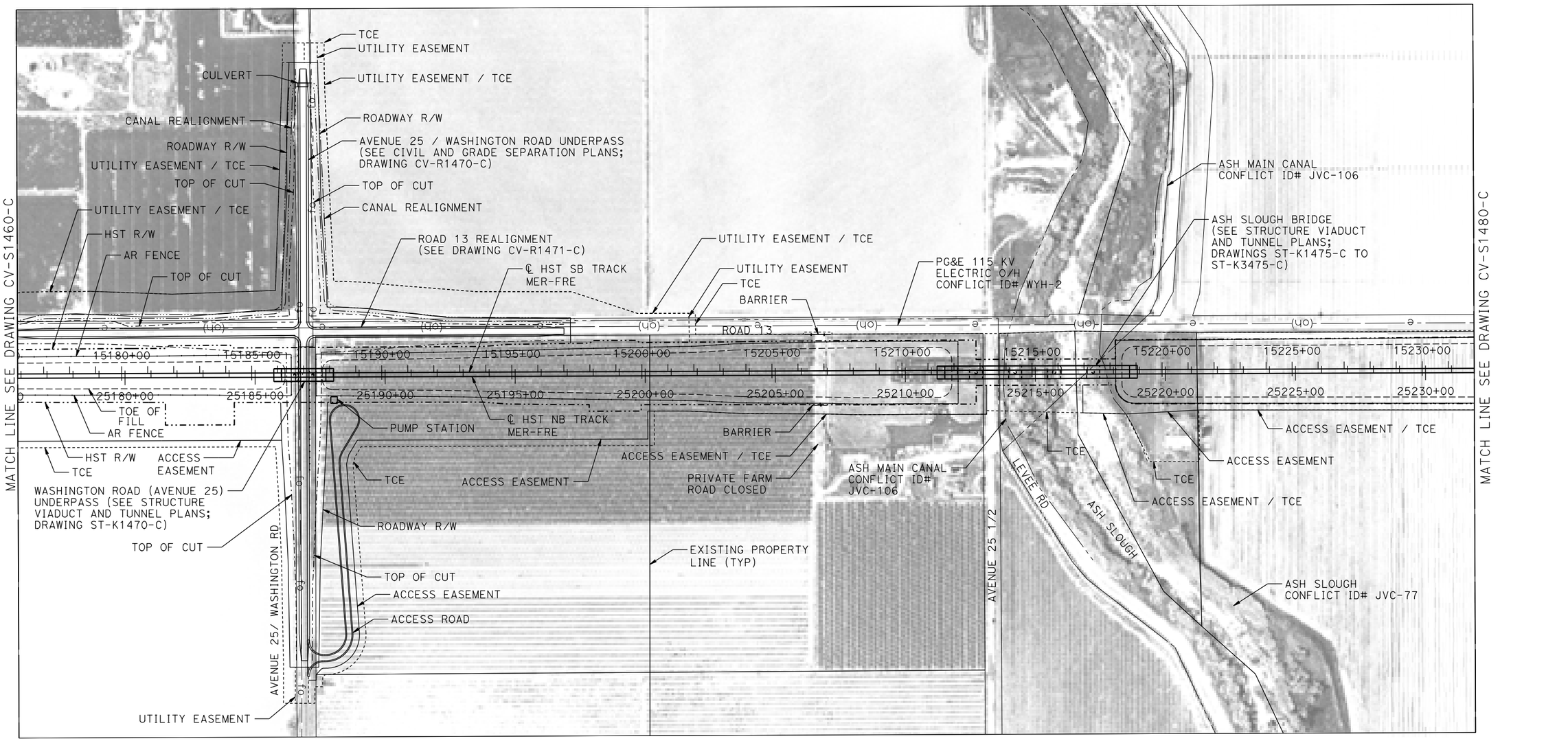
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 15120+00 TO 15176+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1460-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1460-C.dgn
18-MAR-2016 4:54
p005133A

## MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

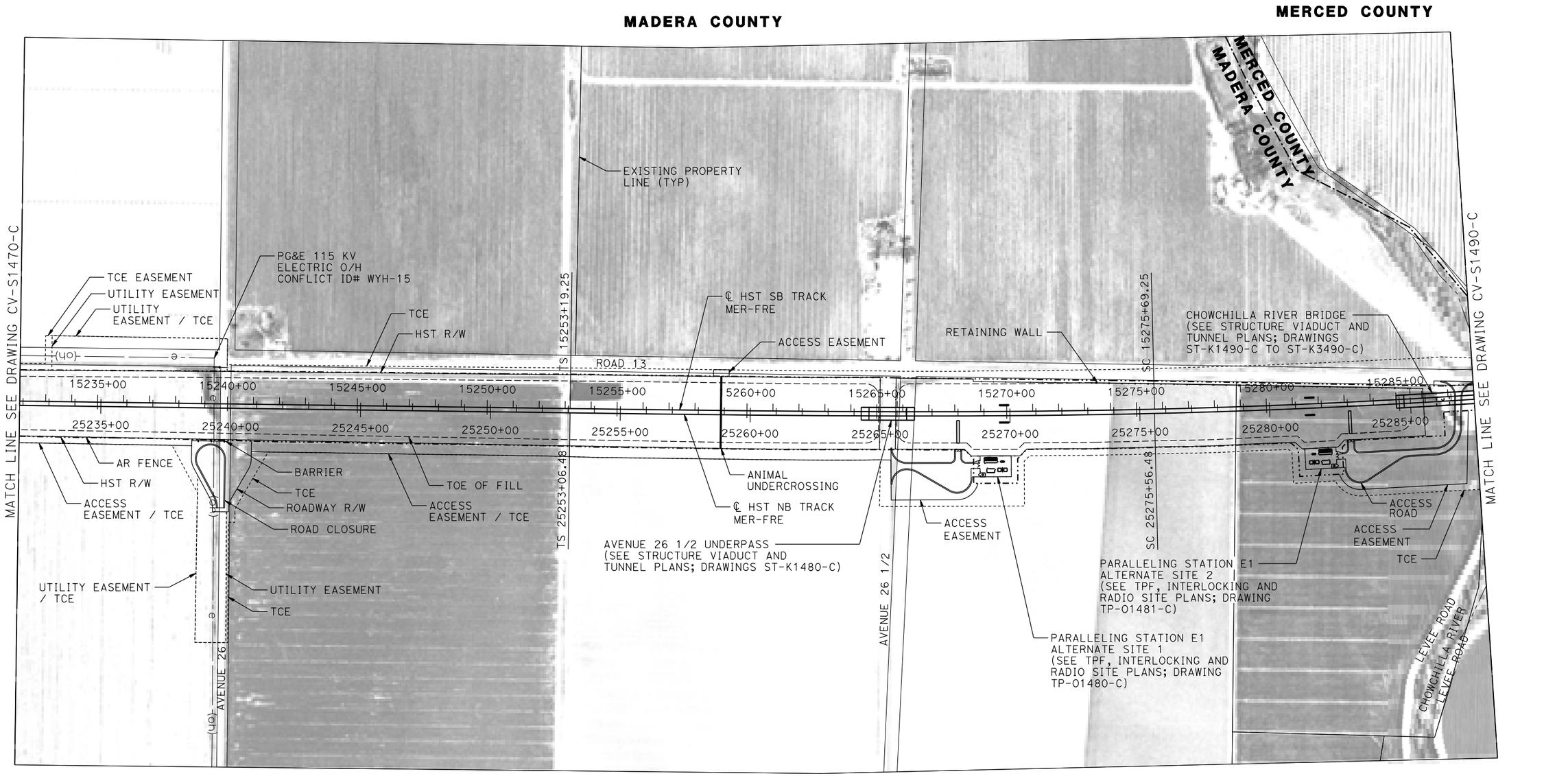
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 15176+00 TO 15232+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1470-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1470-C.dgn
17-MAR-2016 21:44
p0051133A




# PLAN

200 0 200 400
1"=200'

MF-CV-S1480-C.dgn
17-MAR-2016 21:45
p0051133A

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

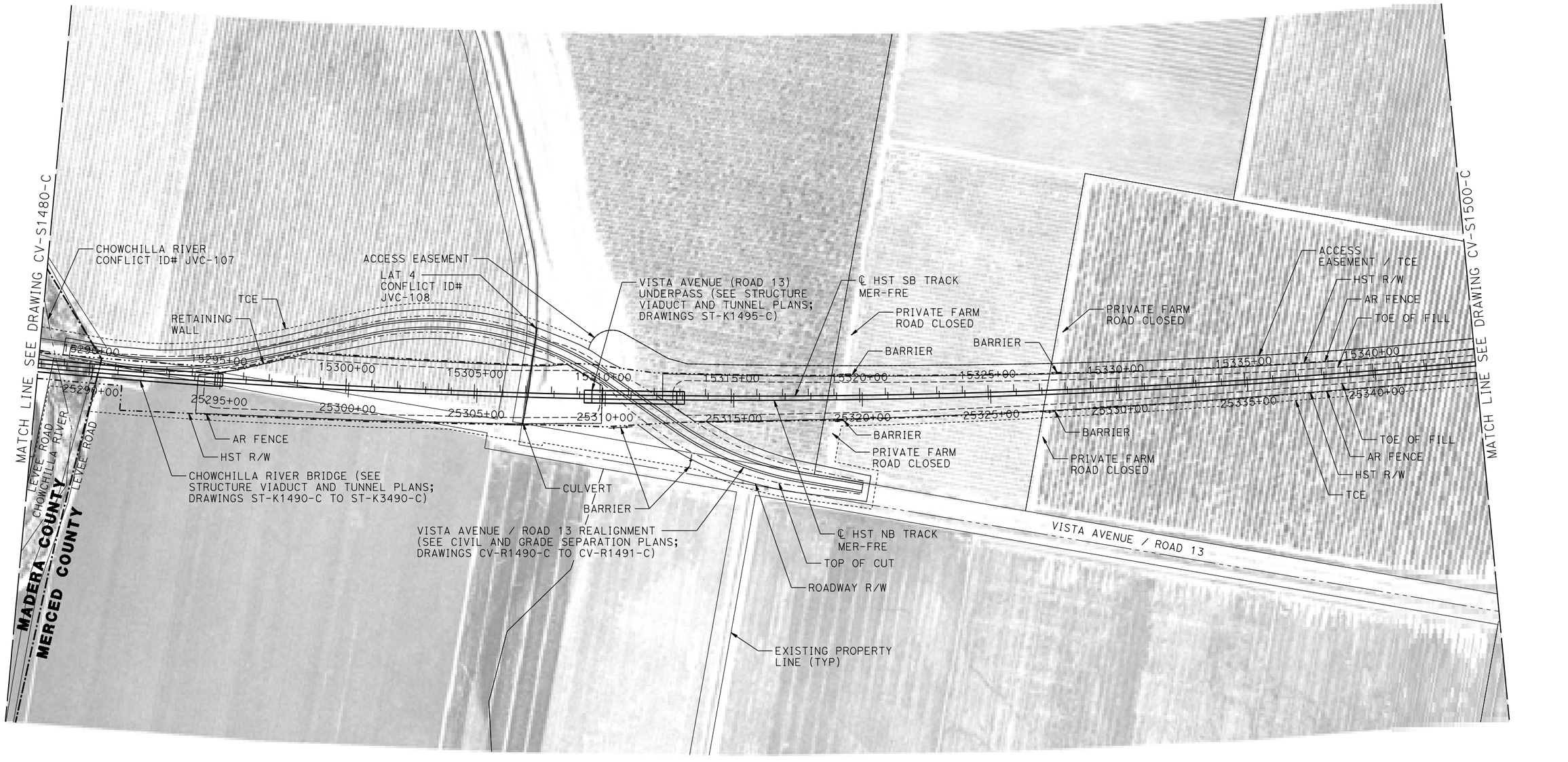
PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 15232+00 TO 15288+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1480-C
SCALE 1"=200'
SHEET NO.

## MERCED COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: M. STANWIC
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

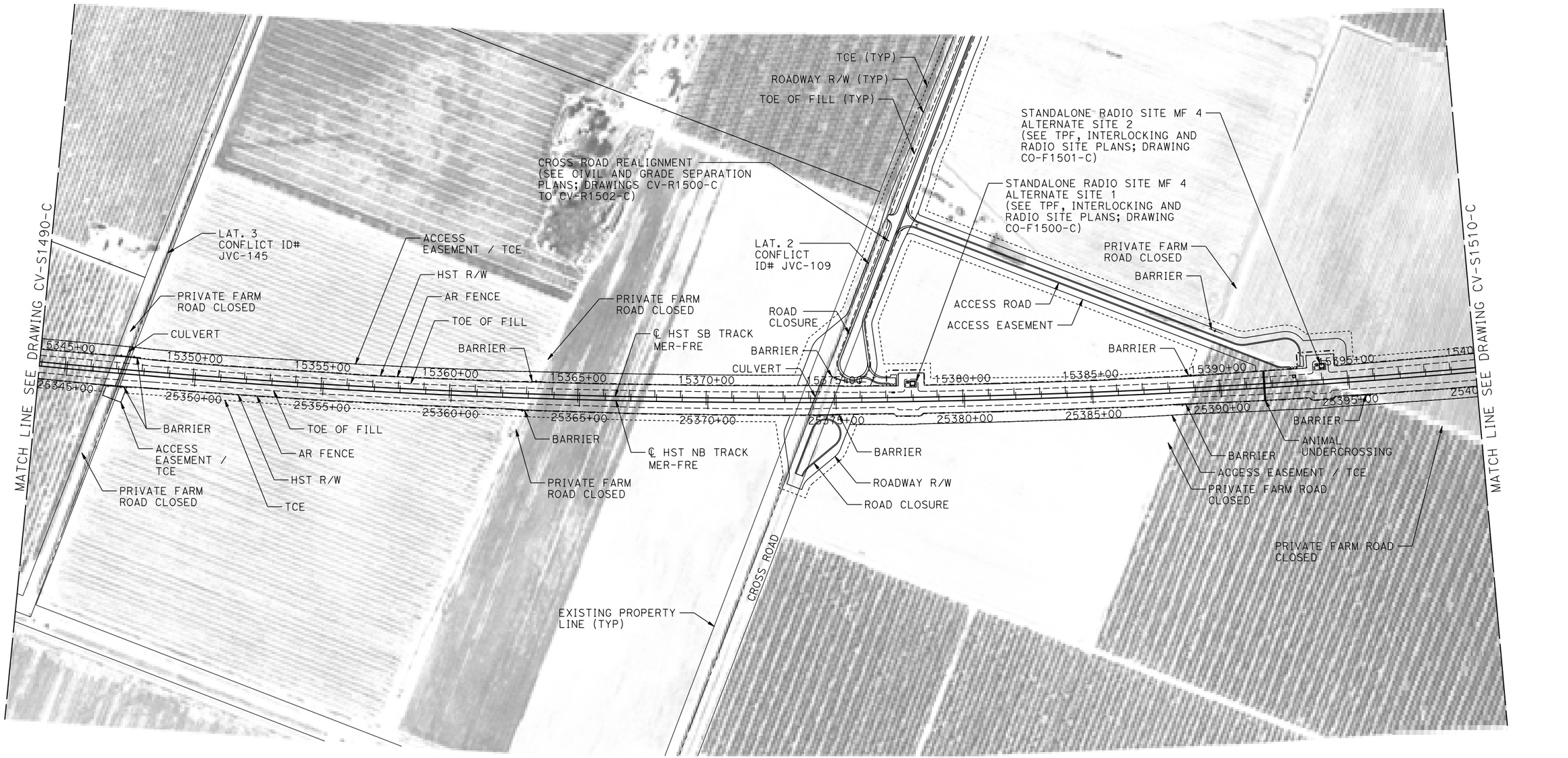
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 15288+00 TO 15344+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1490-C
SCALE 1"=200'
SHEET NO.

17-MAR-2016 21:46
MF-CV-S1490-C.dgn
p005133A

**MERCED COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

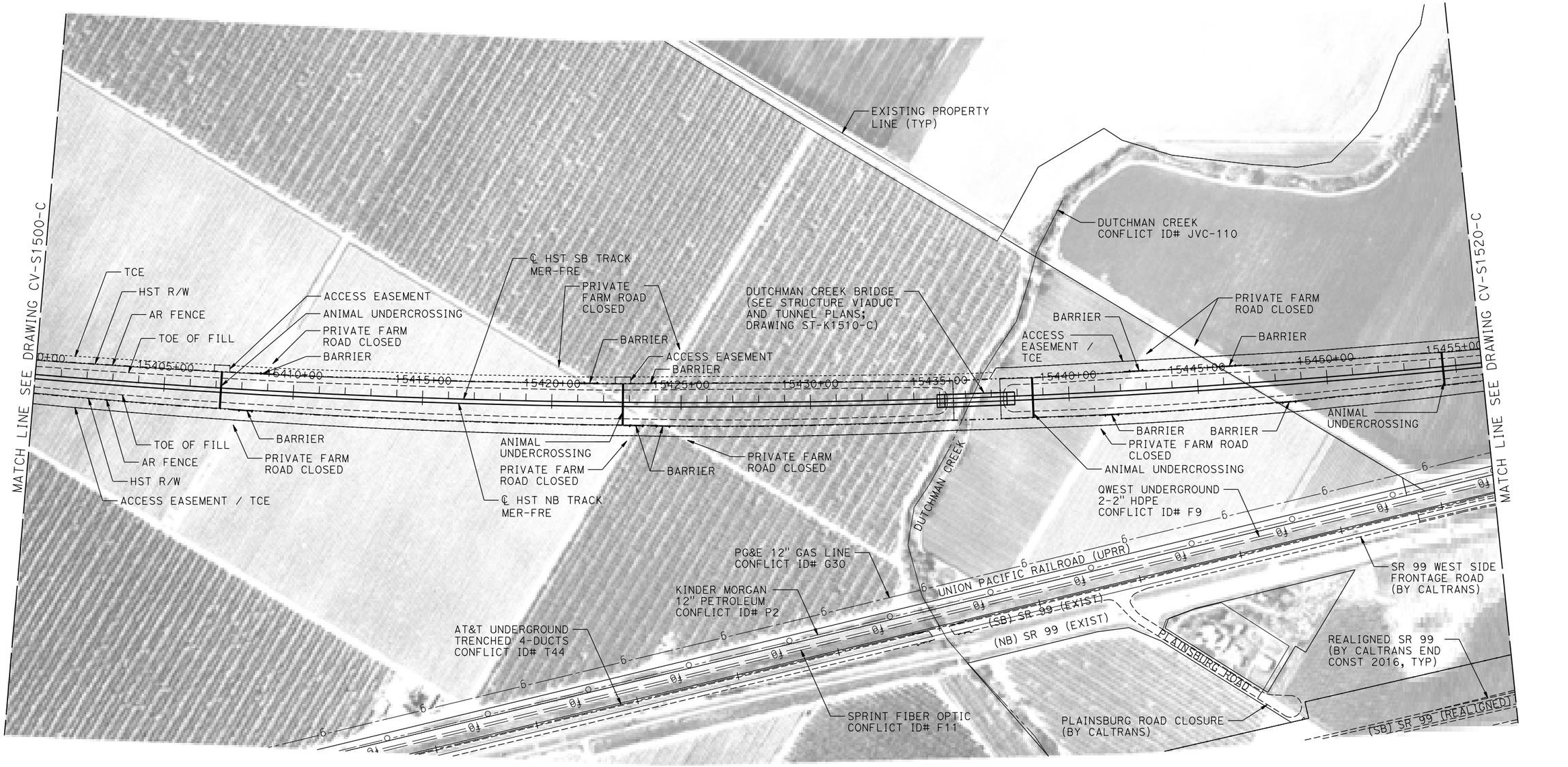
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 15344+00 TO 15400+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1500-C
SCALE 1"=200'
SHEET NO.

17-MAR-2016 21:46
MF-CV-S1500-C.dgn
p0051133A

## MERCED COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

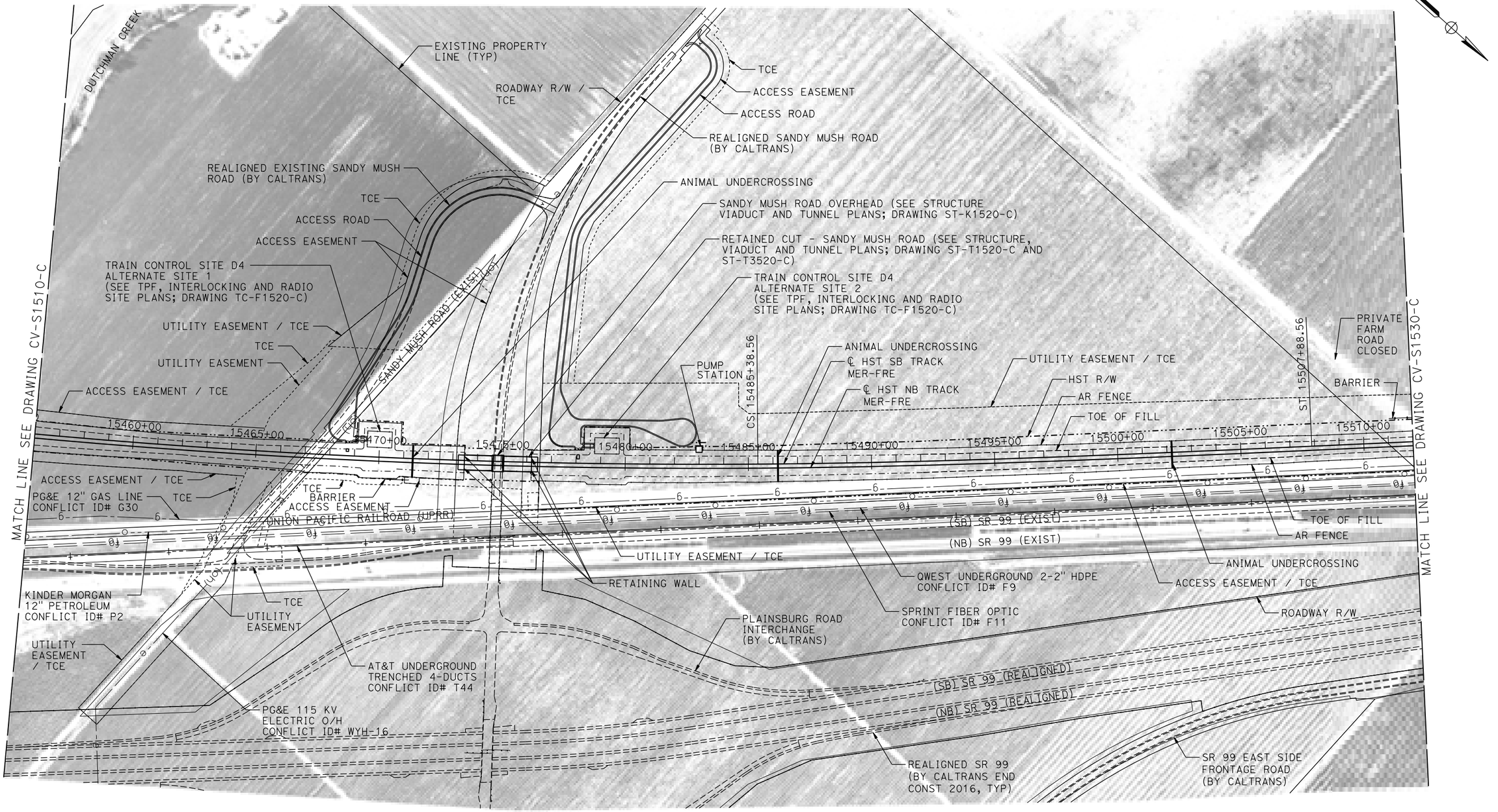
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 15400+00 TO 15456+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1510-C
SCALE 1"=200'
SHEET NO.

p005133A 17-MAR-201621:47 MF-CV-S1510-C.dgn

## MERCED COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

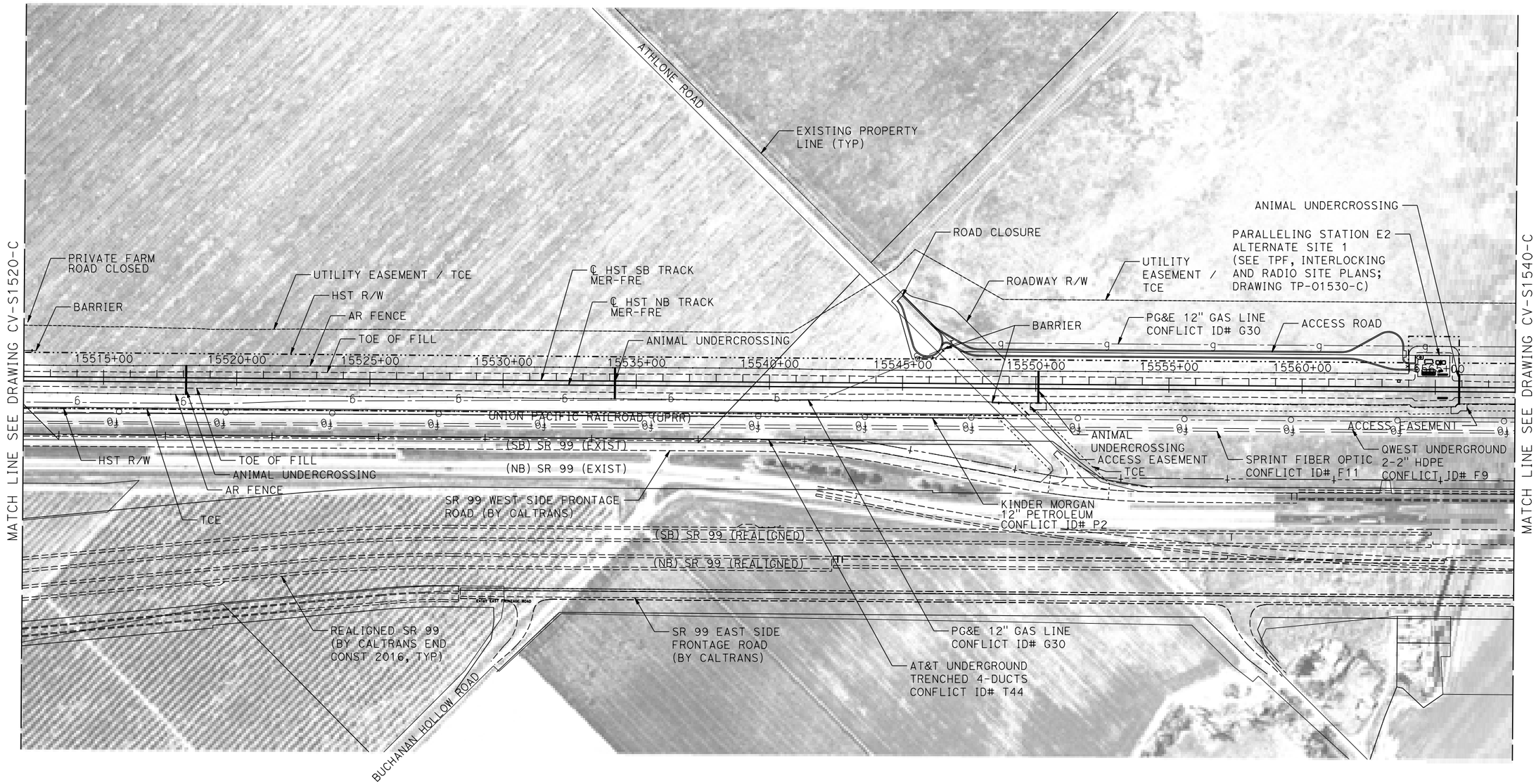
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 15456+00 TO 15512+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1520-C
SCALE 1"=200'
SHEET NO.

p005133A 17-MAR-2016 21:47 MF-CV-S1520-C.dgn

## MERCED COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: M. STANWIC
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

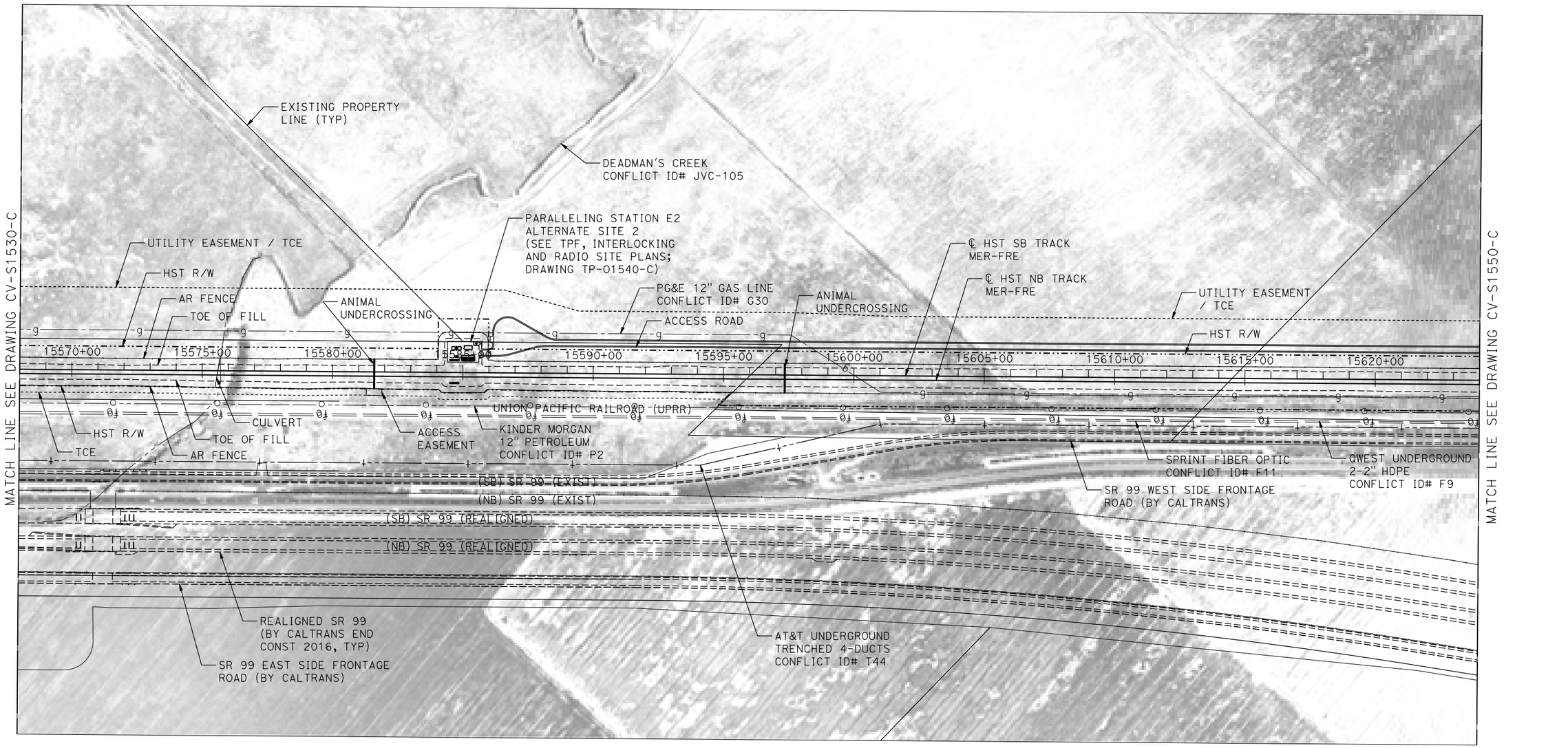
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 15512+00 TO 15568+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1530-C
SCALE 1"=200'
SHEET NO.

p0051334 17-MAR-2016 21:48 WF-CV-S1530-C.dgn

## MERCED COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

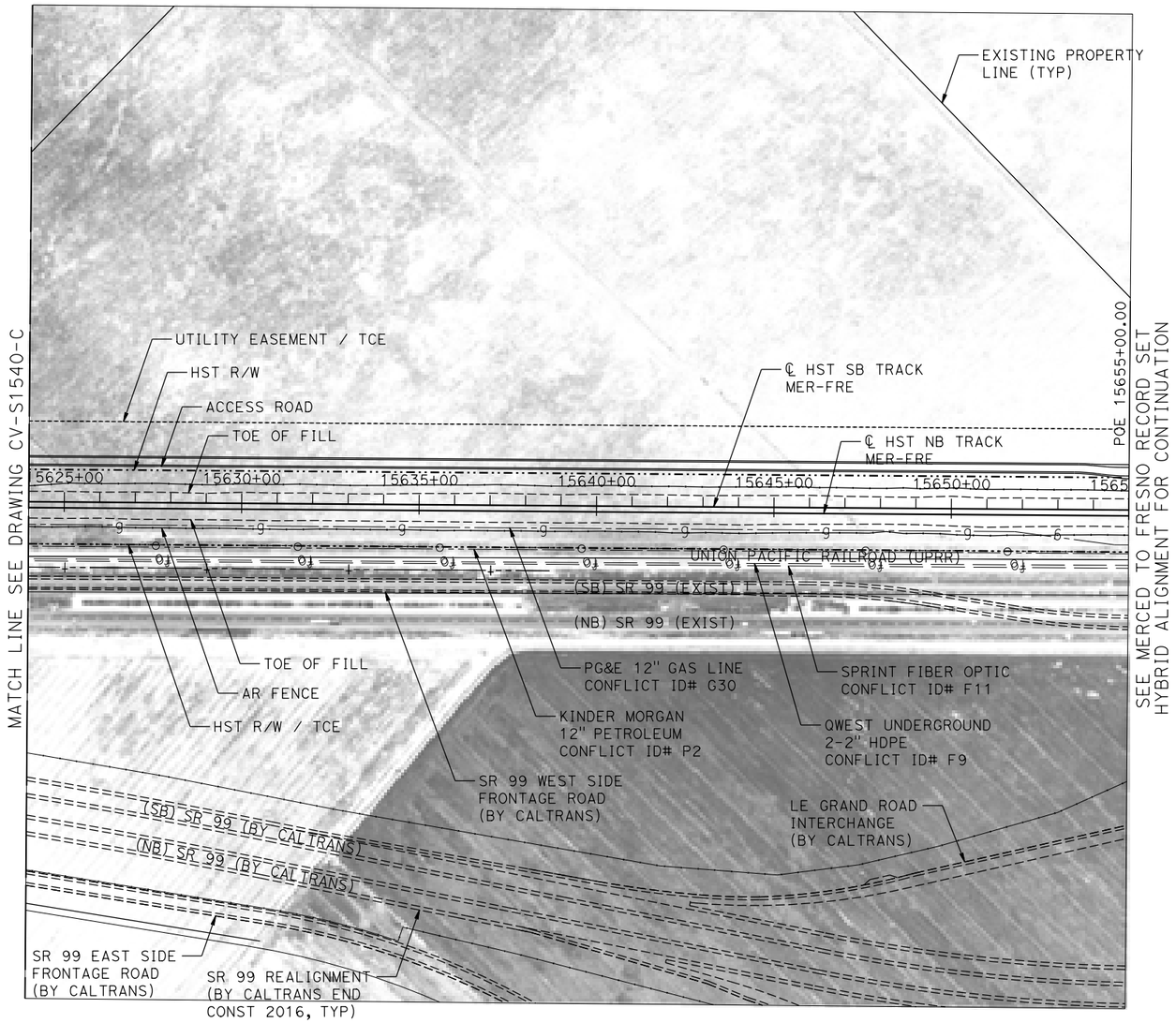
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 15568+00 TO 15624+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1540-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1540-C.dgn
17-MAR-2016 21:48
p0051133A

## MERCED COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

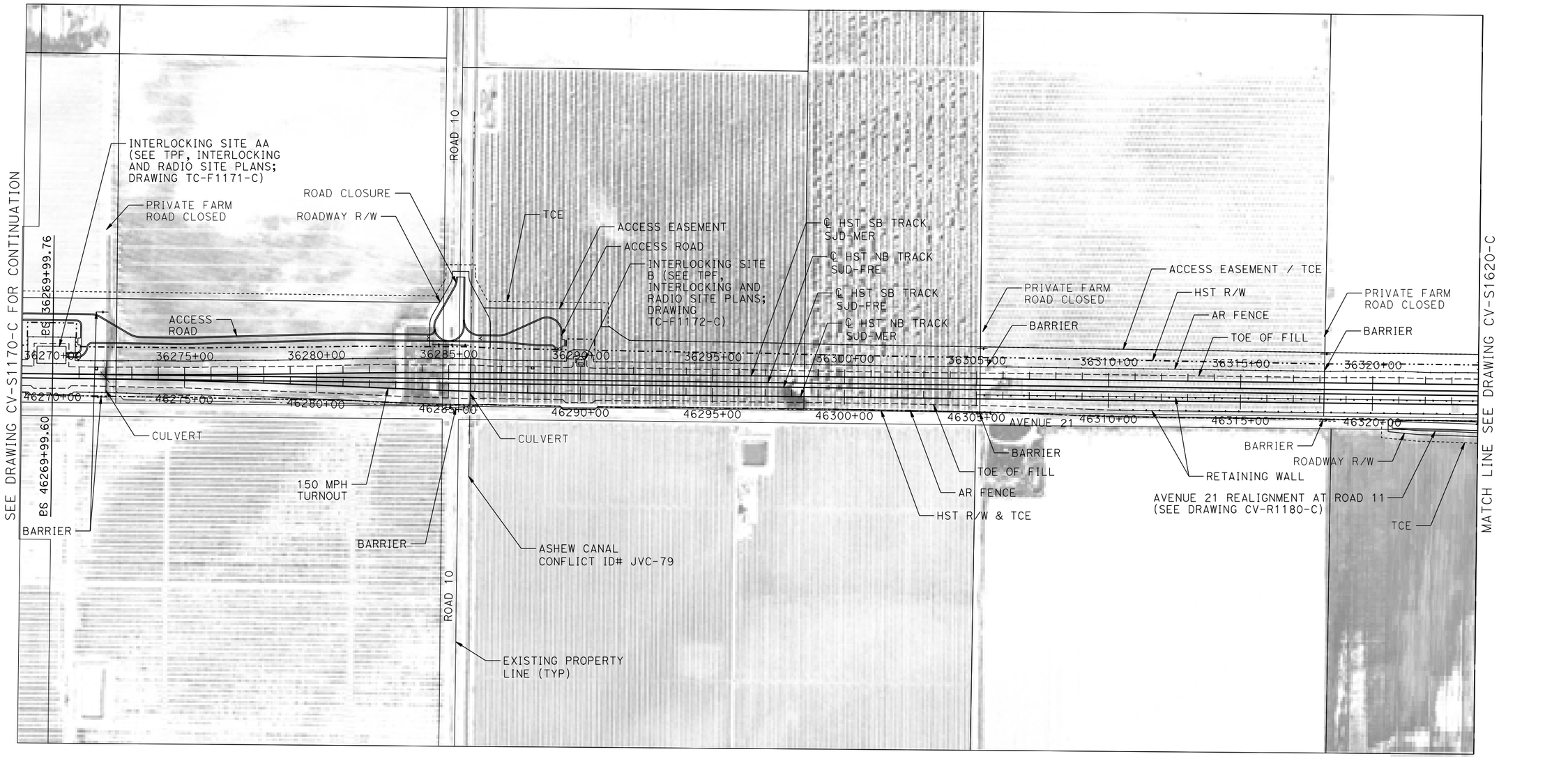
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
MER-FRE STA 15624+00 TO 15655+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1550-C
SCALE 1"=200'
SHEET NO.

p0051133A 17-MAR-2016 21:49 MF-CV-S1550-C.dgn

## MADERA COUNTY




## PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: M. STANWIC
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

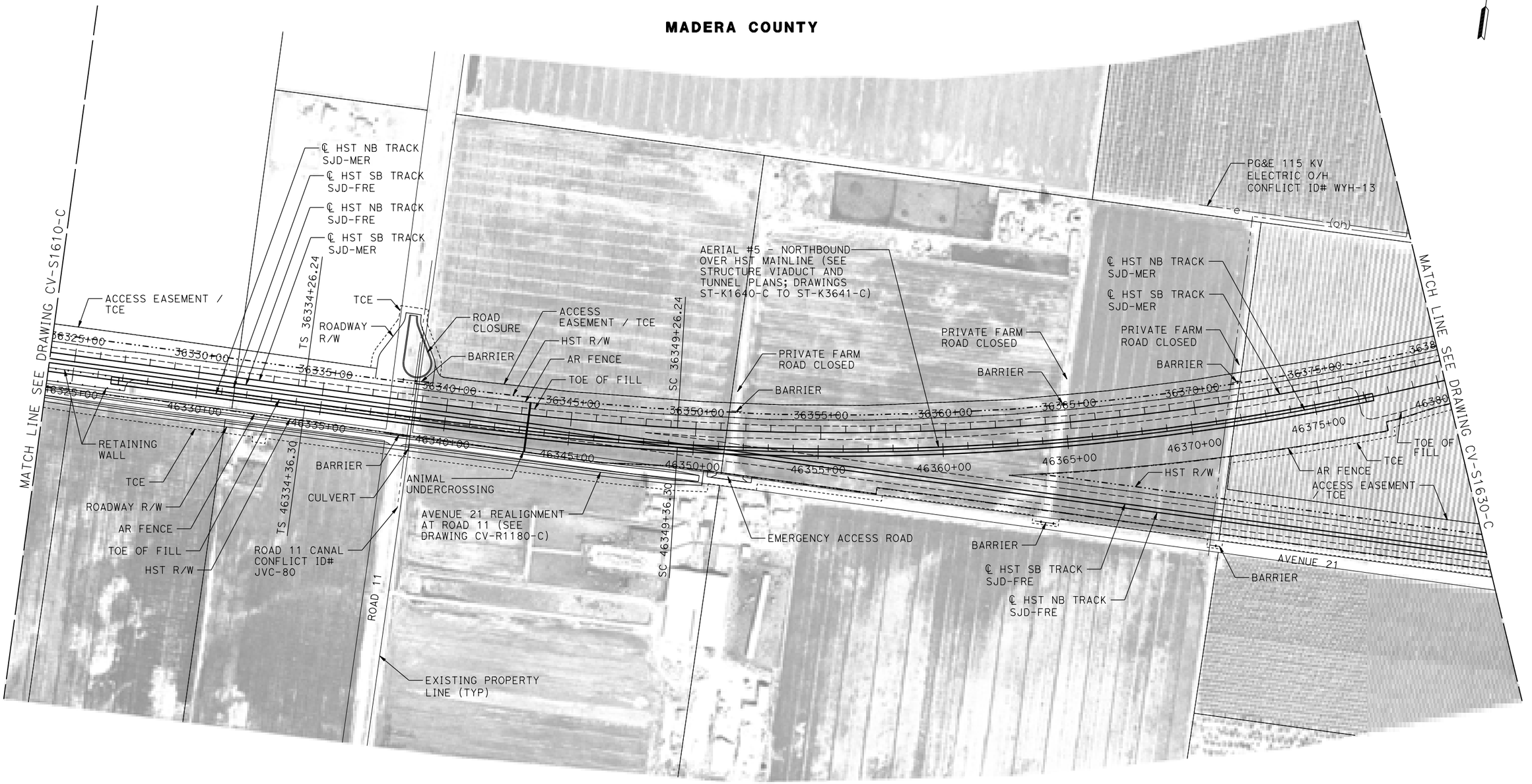
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-MER STA 36268+00 TO 36324+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1610-C
SCALE 1"=200'
SHEET NO.

p0051133A 18-MAR-2016 4:55 MF-CV-S1610-C.dgn

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

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

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

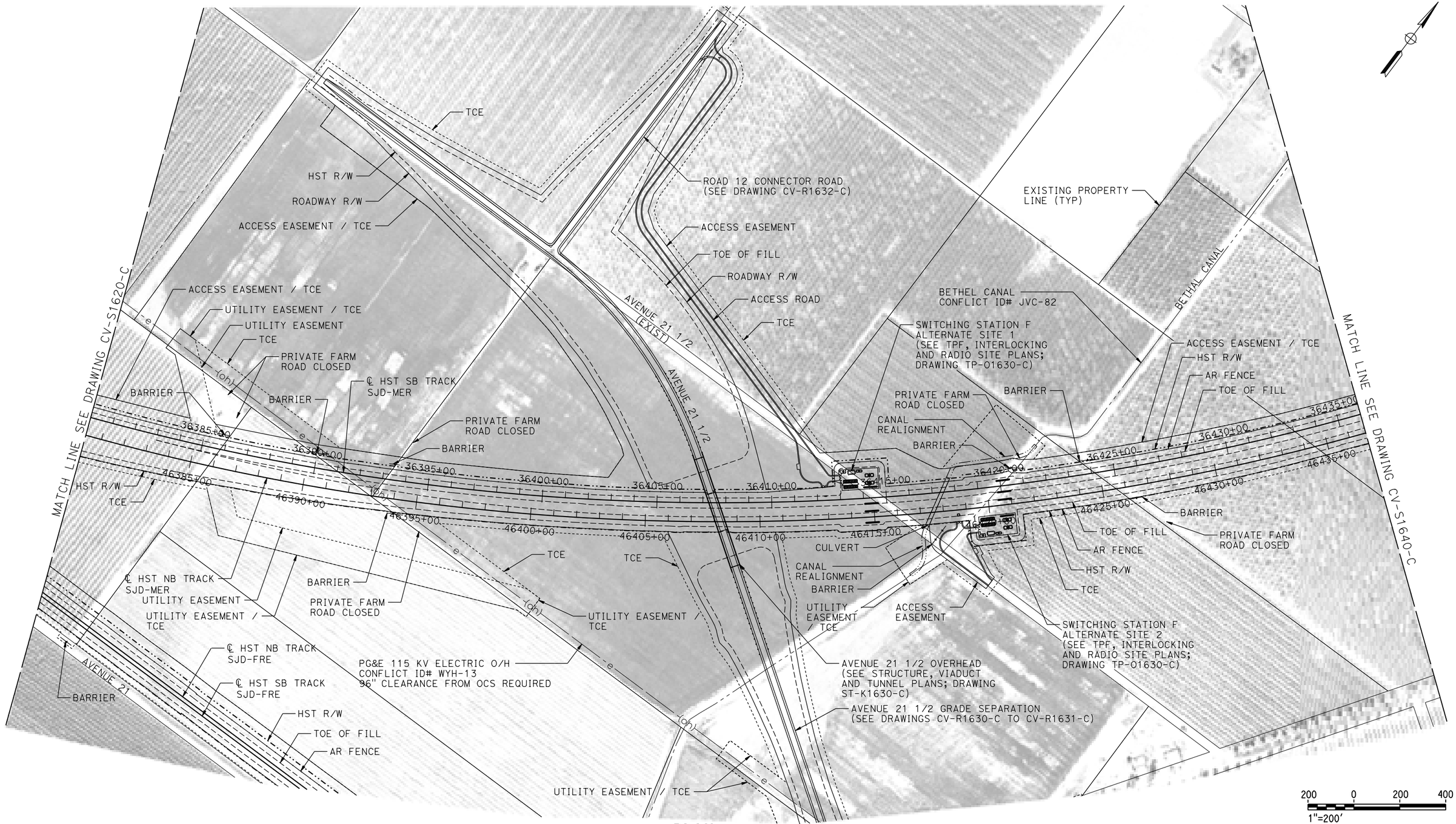
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-MER STA 36324+00 TO 36380+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1620-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1620-C.dgn
18-MAR-2016 3:55
p0051133A

## MADERA COUNTY




## PLAN

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

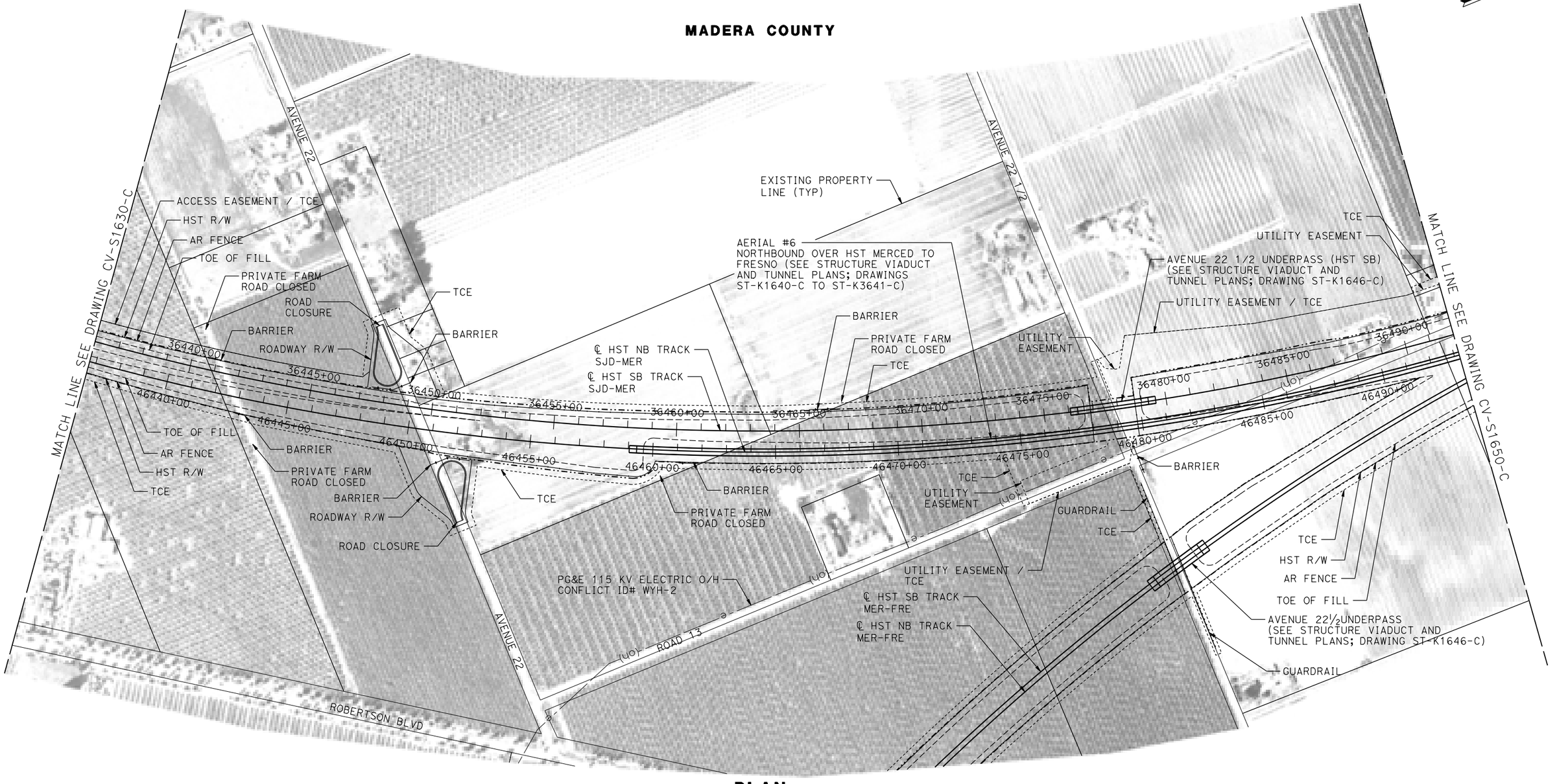
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-MER STA 36380+00 TO 36436+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1630-C
SCALE 1"=200'
SHEET NO.

p005133A 17-MAR-2016 22:22 MF-CV-S1630-C.dgn




PLAN

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: M. STANWIC
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

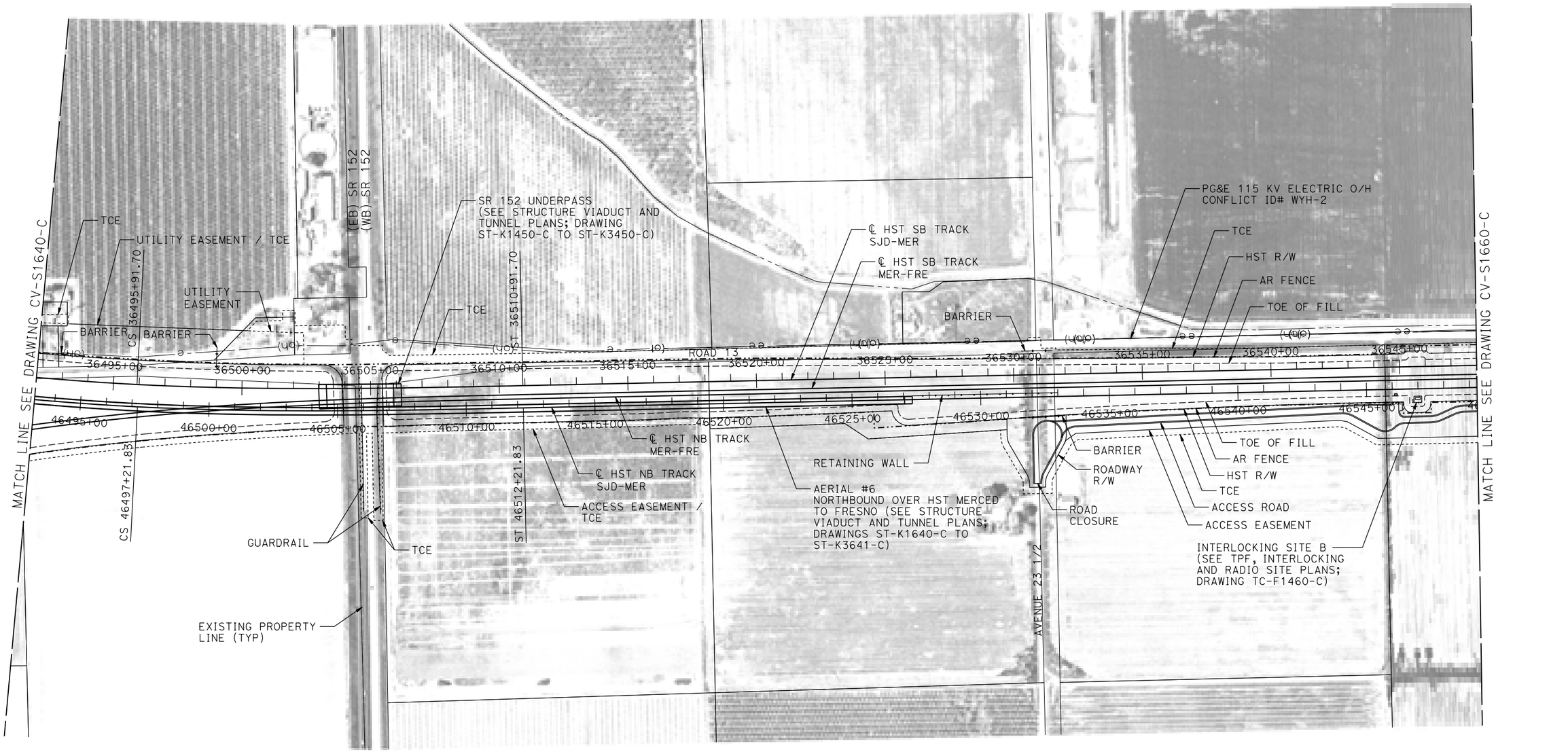
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-MER STA 36436+00 TO 36492+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1640-C
SCALE 1"=200'
SHEET NO.

p0051133A
18-MAR-2016 4:56
MF-CV-S1640-C.dgn

**MADERA COUNTY**




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

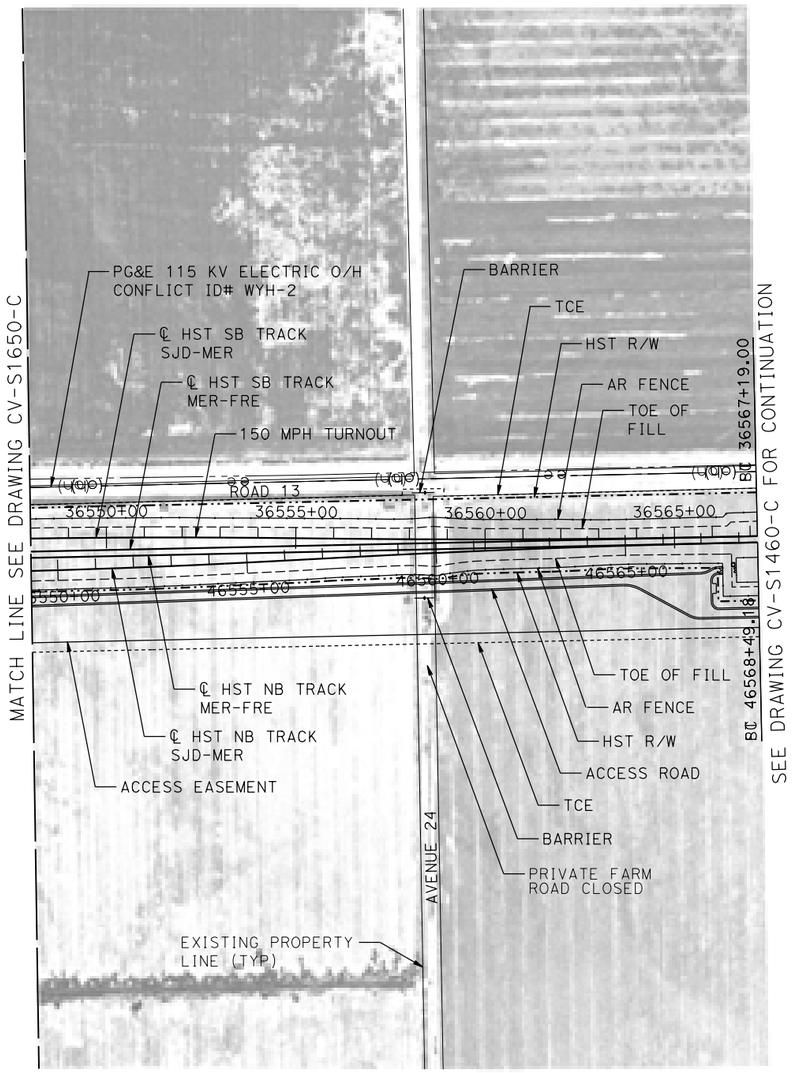
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-MER STA 36492+00 TO 36548+00

CONTRACT NO. HSR08-05
DRAWING NO. CV-S1650-C
SCALE 1"=200'
SHEET NO.

MF-CV-S1650-C.dgn
17-MAR-2016 22:24
p0051133A

## MADERA COUNTY




**PLAN**

200 0 200 400
1"=200'

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY M. STANWIC
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
CIVIL PLAN
SJD-MER STA 36548+00 TO 36567+19

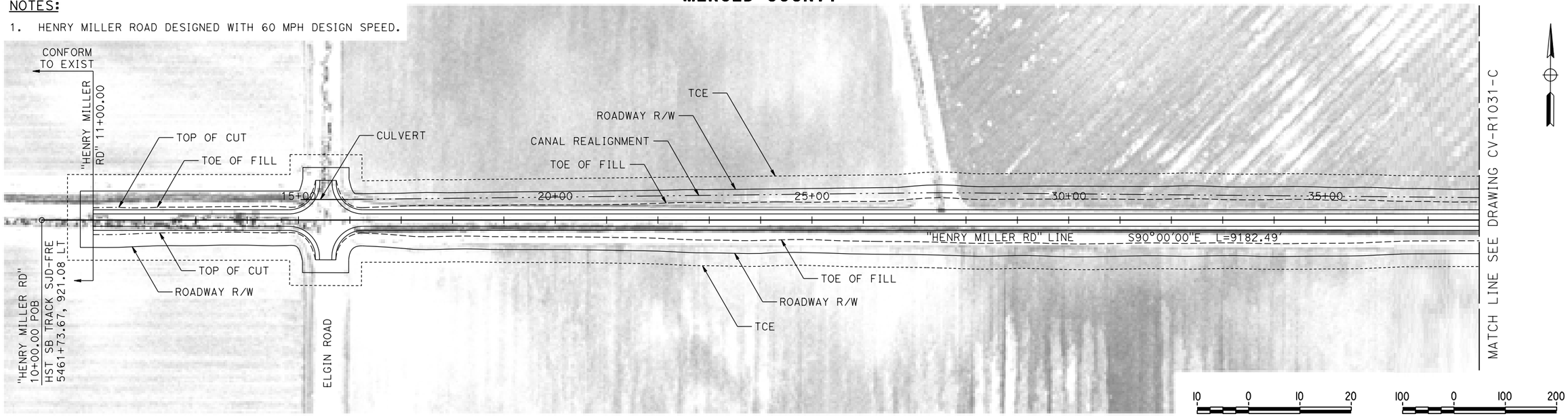
CONTRACT NO. HSR08-05
DRAWING NO. CV-S1660-C
SCALE 1"=200'
SHEET NO.

18-MAR-2016 3:57 MF-CV-S1660-C.dgn p0051133A

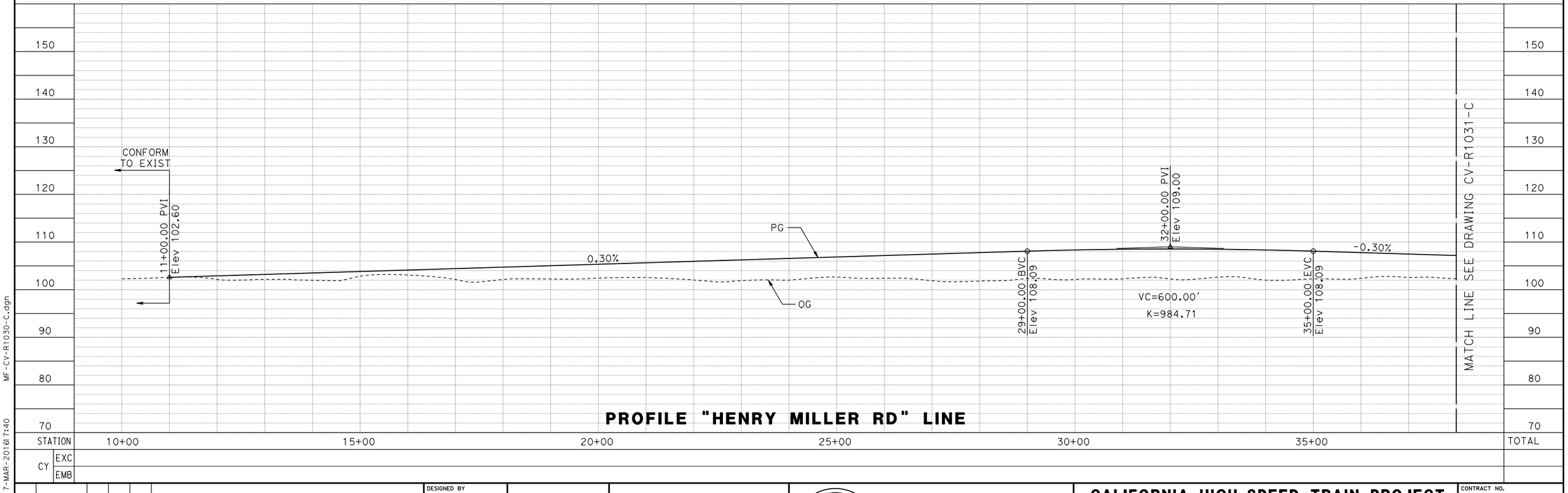
NOTES:

1. HENRY MILLER ROAD DESIGNED WITH 60 MPH DESIGN SPEED.

## MERCED COUNTY




## PLAN




## PROFILE "HENRY MILLER RD" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY A. GURA
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

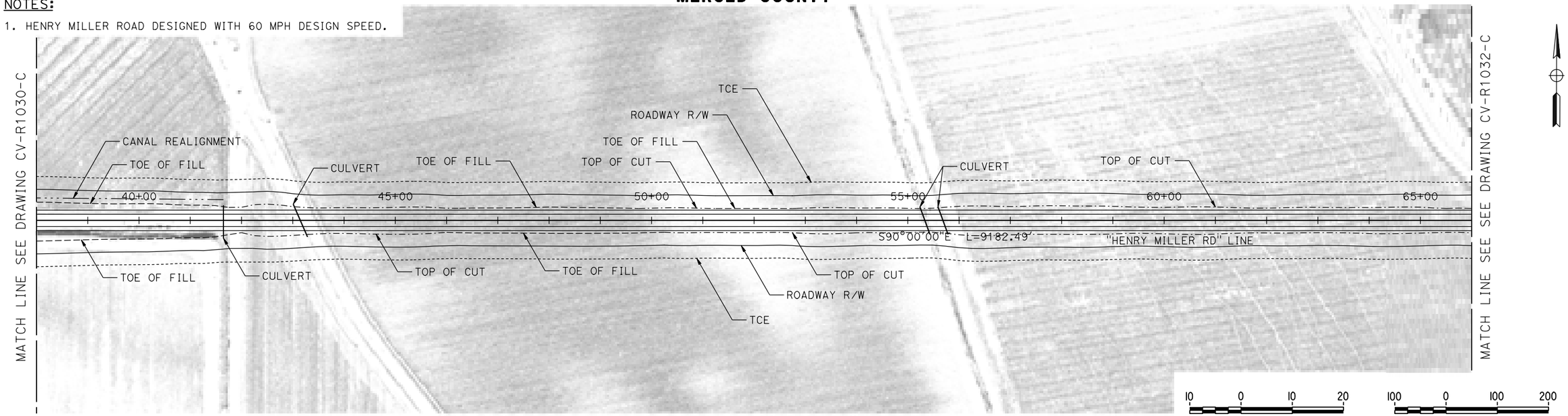
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
HENRY MILLER ROAD REALIGNMENT

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1030-C
SCALE AS SHOWN
SHEET NO.

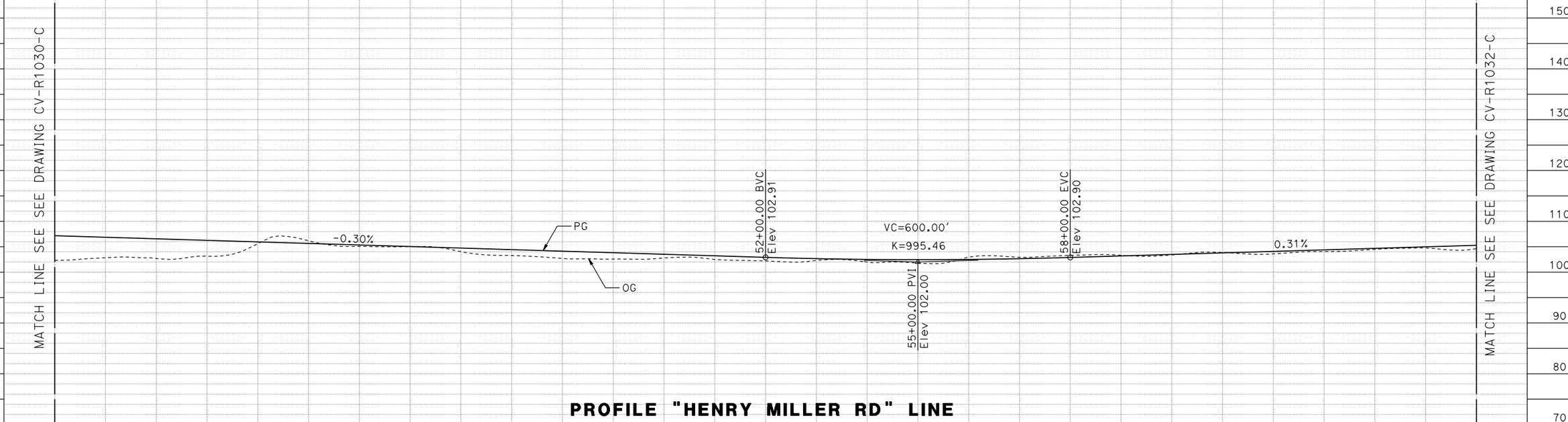
MF-CV-R1030-C.dgn
17-MAR-2016 17:40
p0051334

NOTES:

1. HENRY MILLER ROAD DESIGNED WITH 60 MPH DESIGN SPEED.




PLAN




PROFILE "HENRY MILLER RD" LINE

| STATION | | 40+00 | 45+00 | 50+00 | 55+00 | 60+00 | 65+00 | TOTAL |
|---|---|---|---|---|---|---|---|---|
| CY | EXC | | | | | | | |
| | EMB | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY A. GURA
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 05/08/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

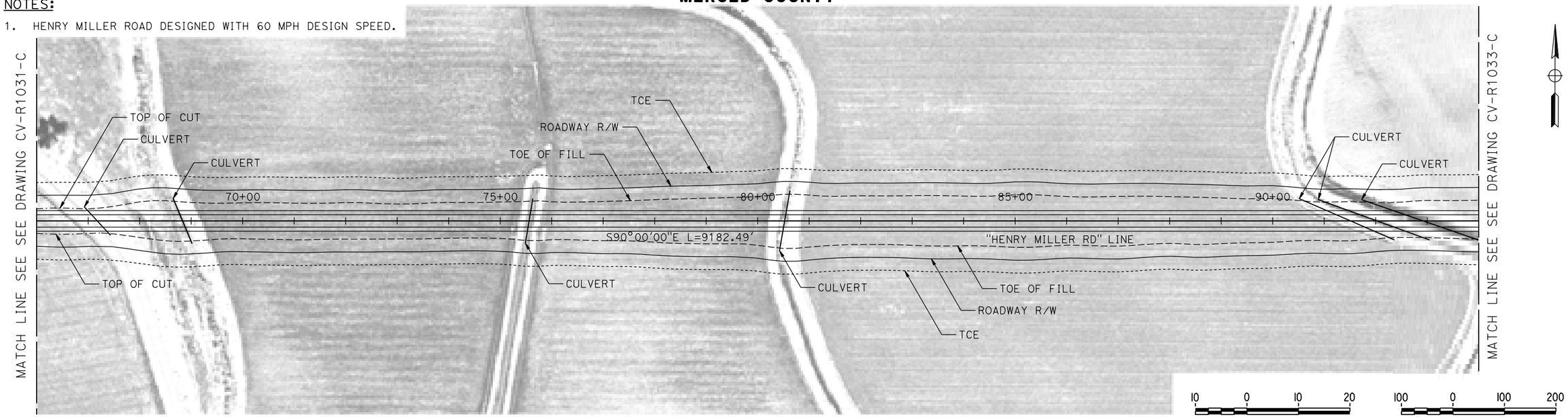
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
HENRY MILLER ROAD REALIGNMENT

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1031-C
SCALE AS SHOWN
SHEET NO.

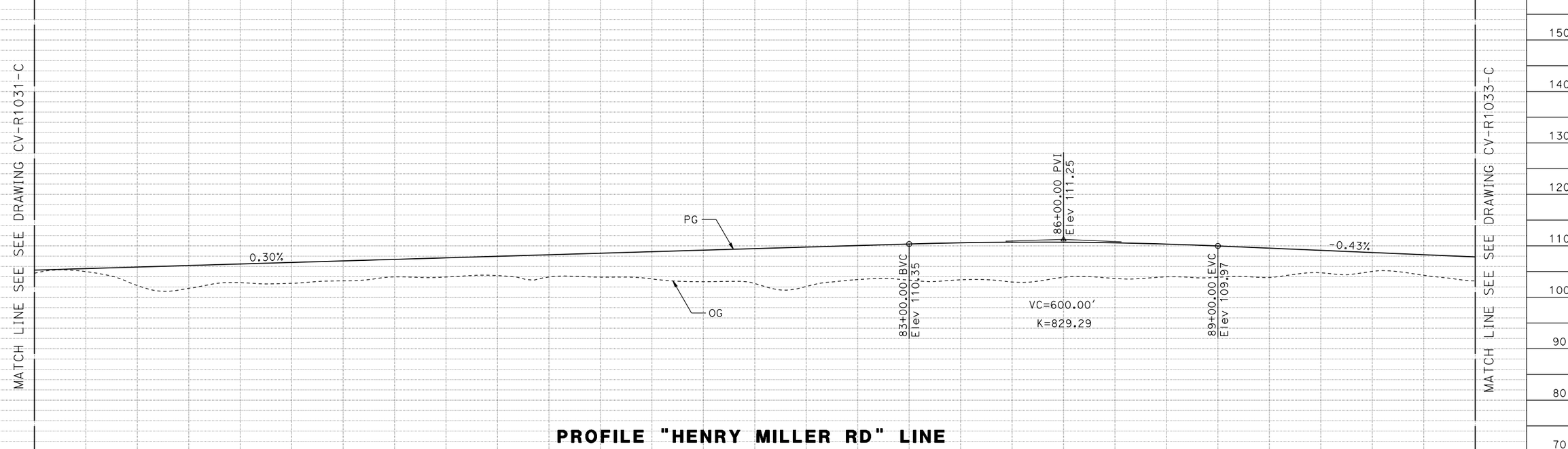
MF-CV-R1031-C.dgn
17-MAR-2016 7:41
p0051133A

NOTES:

1. HENRY MILLER ROAD DESIGNED WITH 60 MPH DESIGN SPEED.




PLAN




PROFILE "HENRY MILLER RD" LINE

| STATION | | 70+00 | 75+00 | 80+00 | 85+00 | 90+00 | TOTAL |
|---|---|---|---|---|---|---|---|
| CY | EXC | | | | | | |
| | EMB | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY A. GURA
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
HENRY MILLER ROAD REALIGNMENT

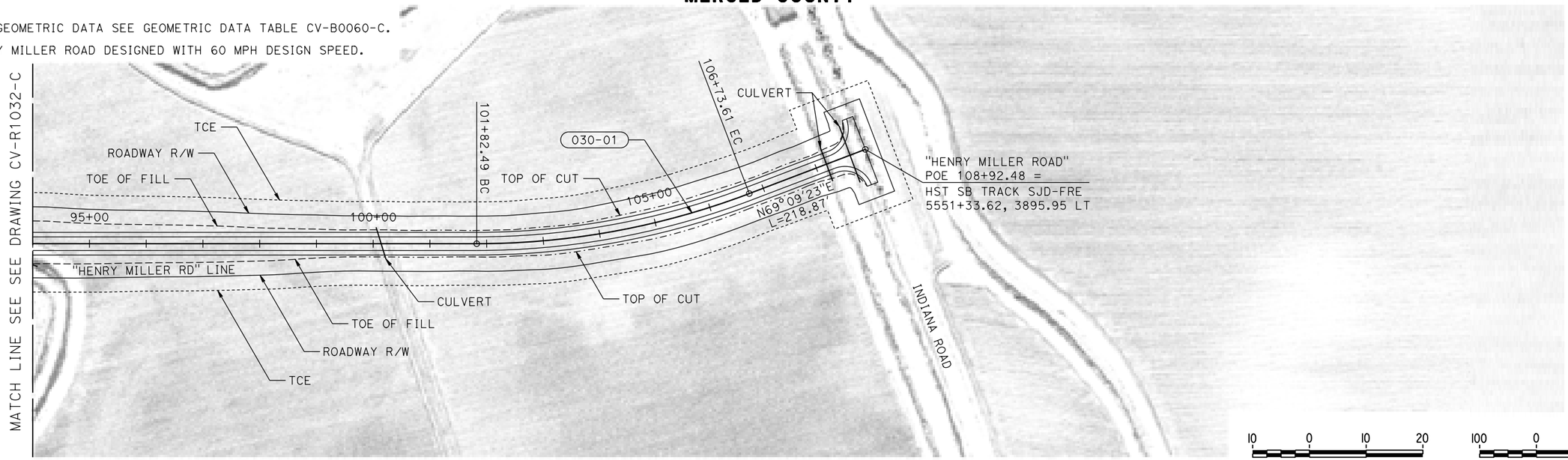
CONTRACT NO. HSR08-05
DRAWING NO. CV-R1032-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1032-C.dgn
17-MAR-2016 7:41
p005133A

NOTES:

1. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0060-C.
2. HENRY MILLER ROAD DESIGNED WITH 60 MPH DESIGN SPEED.

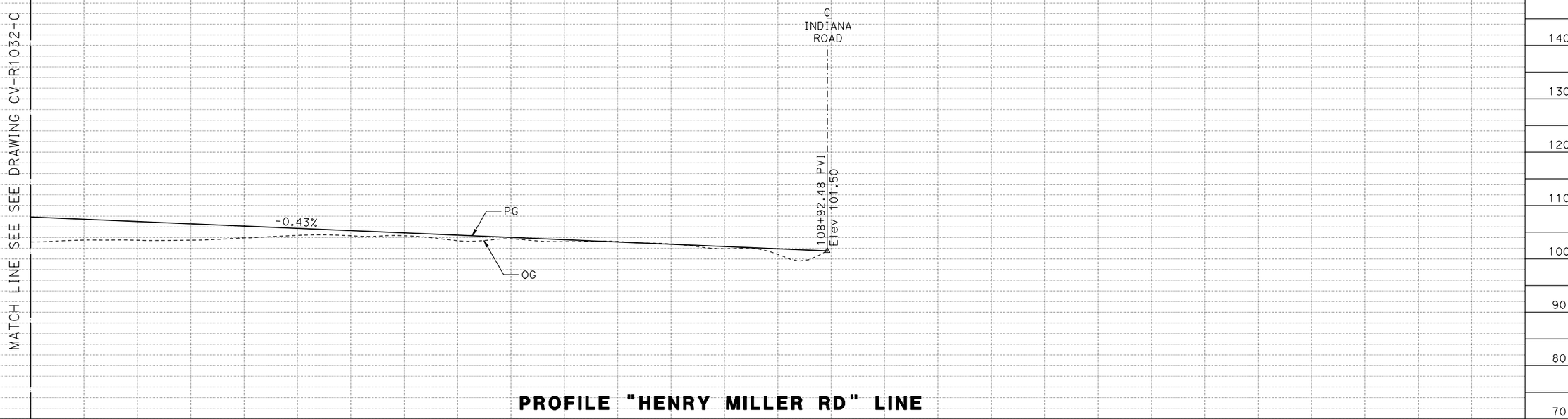
## MERCED COUNTY




10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'

## PLAN




## PROFILE "HENRY MILLER RD" LINE

| STATION | | 95+00 | 100+00 | 105+00 | 110+00 | TOTAL |
|---|---|---|---|---|---|---|
| CY | EXC | | | | | |
| | EMB | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY A. GURA
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

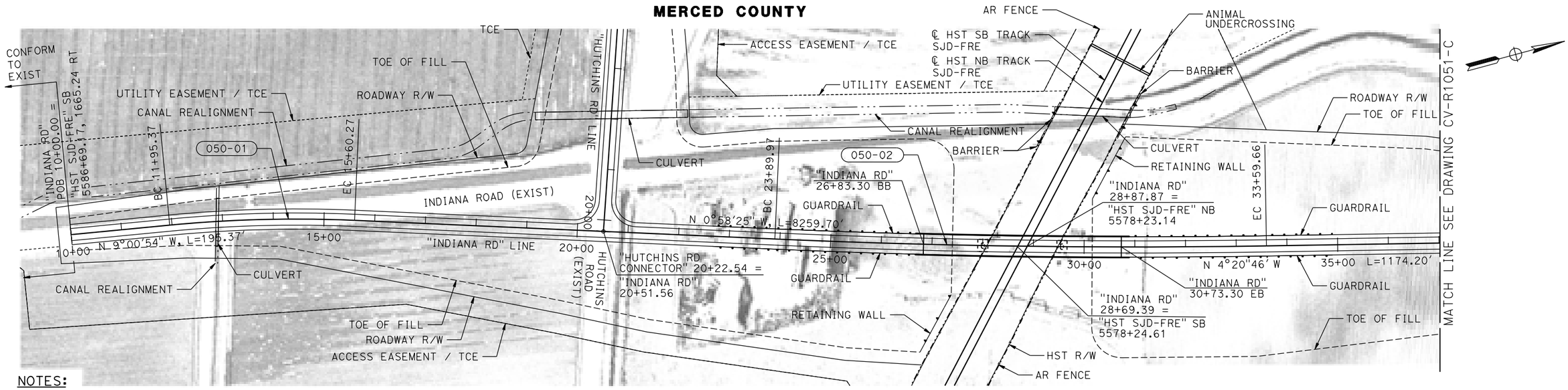
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
HENRY MILLER ROAD REALIGNMENT

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1033-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1033-C.dgn
17-MAR-2016 7:42
p0051133A



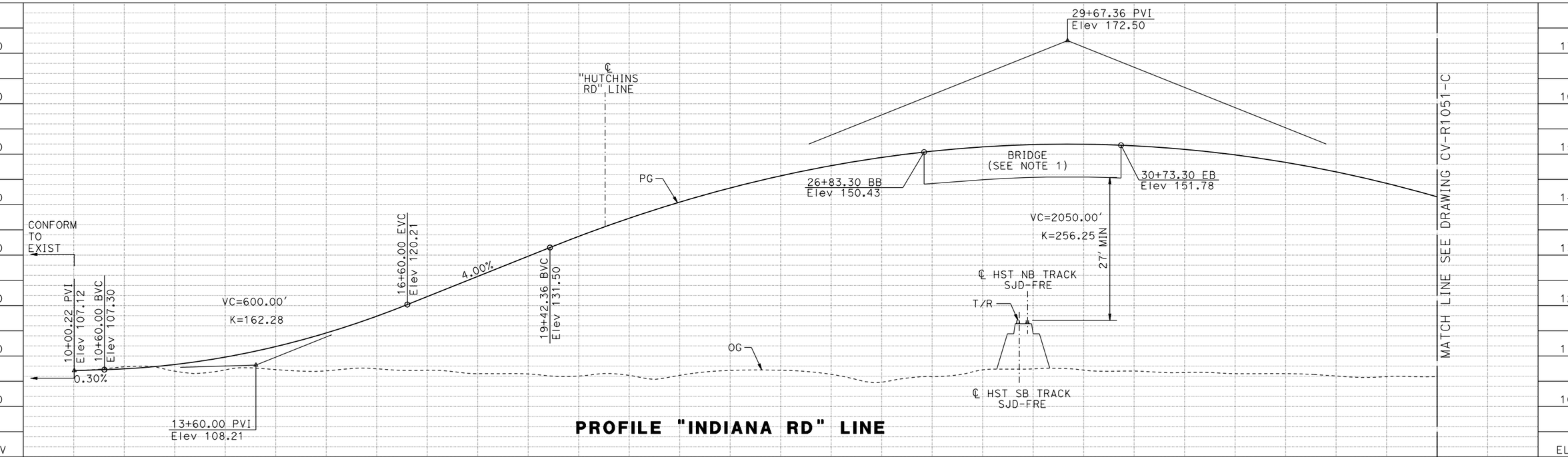

NOTES:

1. FOR DETAIL OF INDIANA ROAD OVERHEAD SEE STRUCTURE, VIADUCT AND TUNNEL PLANS DRAWING ST-K1050-C.
2. INDIANA ROAD DESIGNED WITH 60 MPH DESIGN SPEED.
3. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0060-C.

## PLAN

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




## PROFILE "INDIANA RD" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

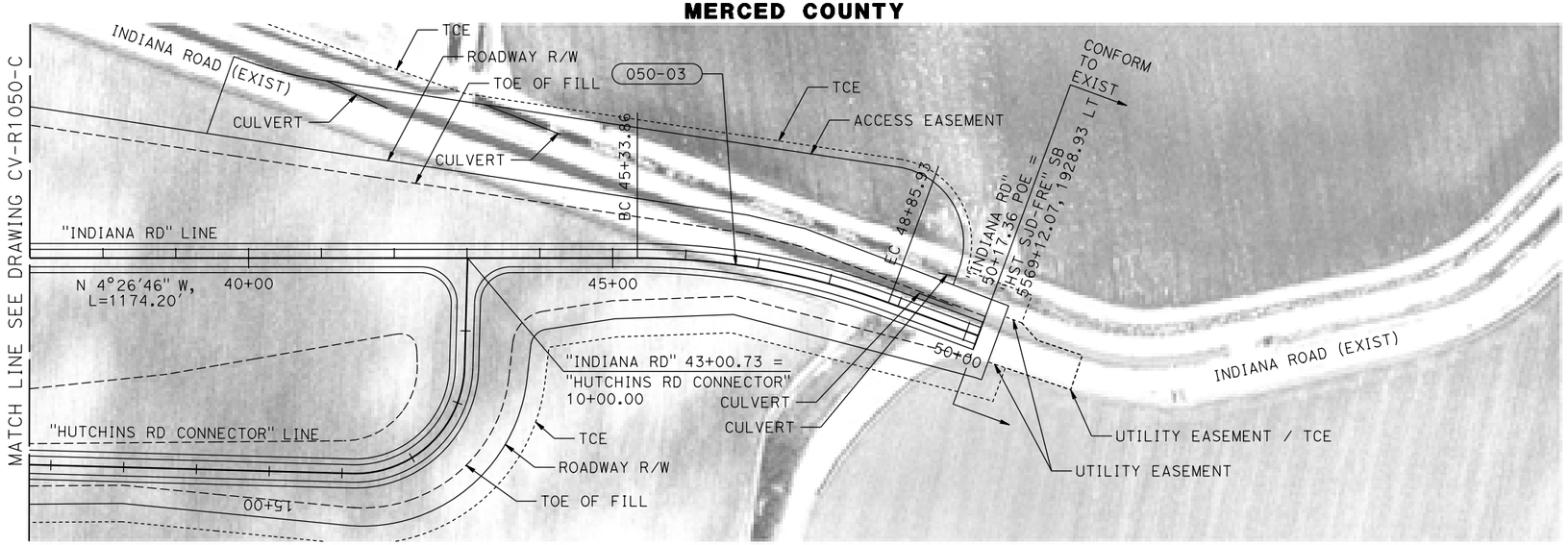
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
INDIANA ROAD GRADE SEPARATION

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1050-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1050-C.dgn
17-MAR-2016 7:42
p0051133A

## MERCED COUNTY

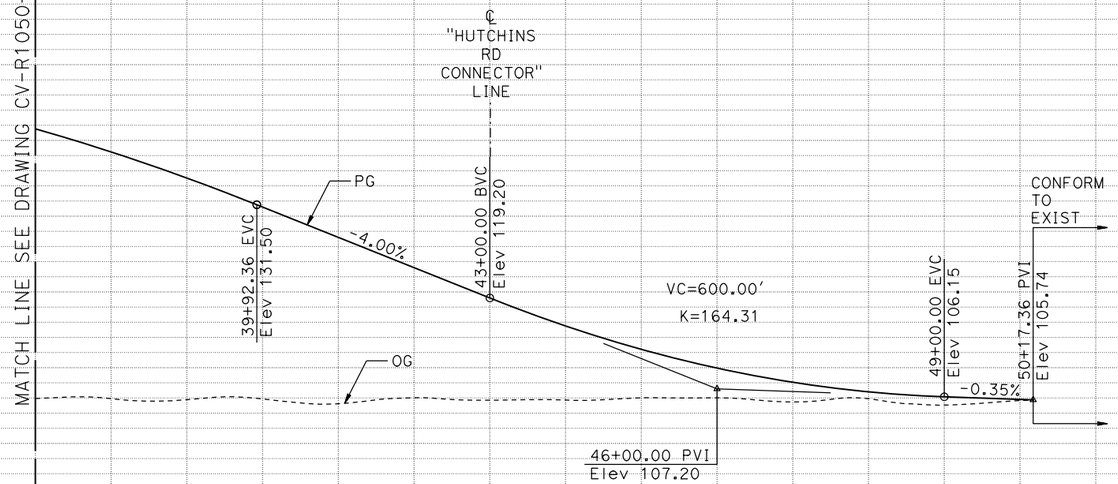



NOTES:

1. INDIANA ROAD DESIGNED WITH 60 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0060-C.

## PLAN

VERT: 1"=10'  HORIZ: 1"=100'




## PROFILE "INDIANA RD" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

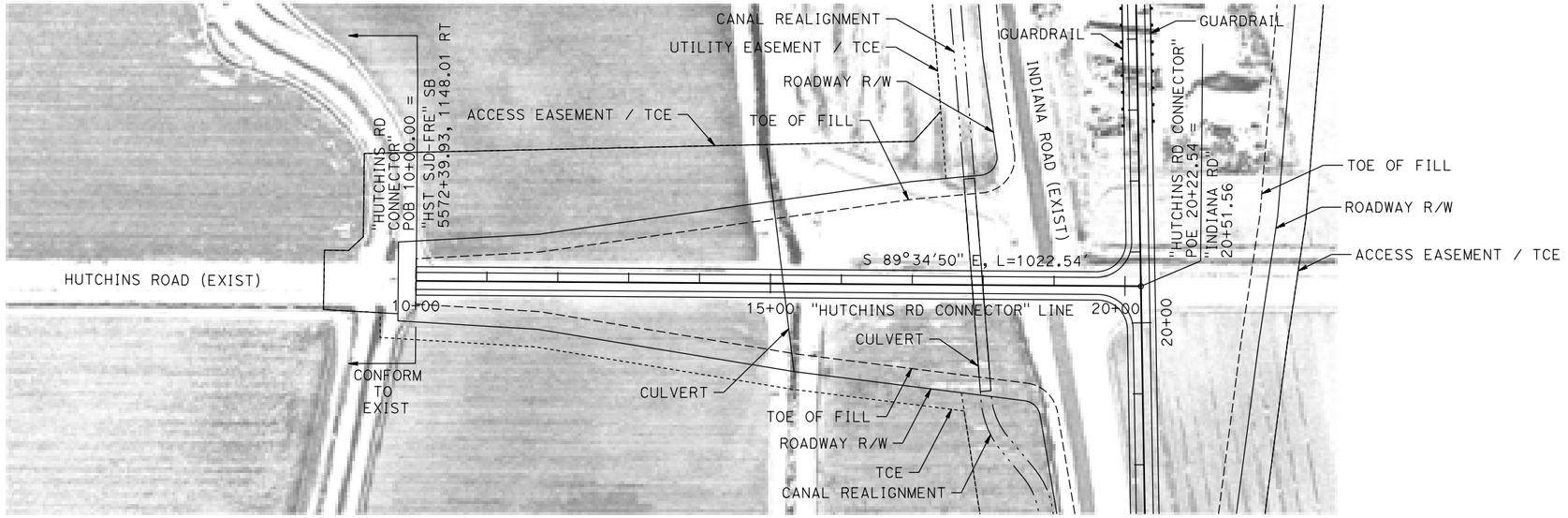
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
INDIANA ROAD GRADE SEPARATION

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1051-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1051-C.dgn
17-MAR-2016 7:43
p0051133A

## MERCED COUNTY



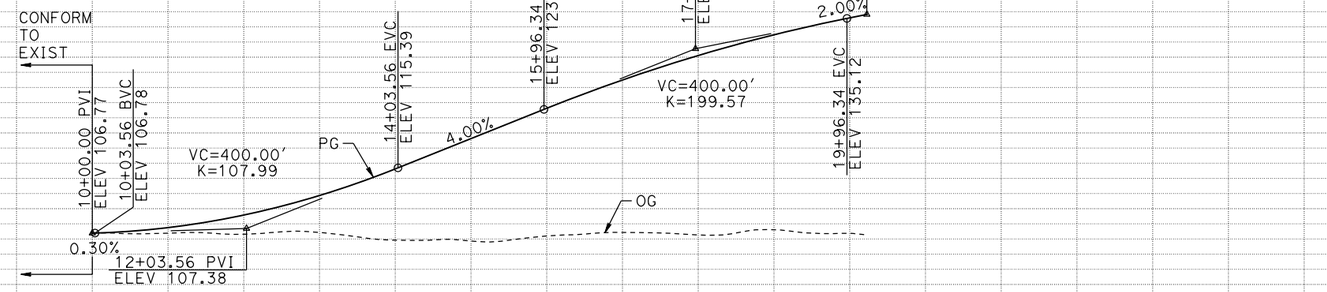

**PLAN**

NOTES:

1. HUTCHINS ROAD CONNECTOR DESIGNED WITH 25 MPH DESIGN SPEED.

10 0 10 20 — VERT: 1"=10'

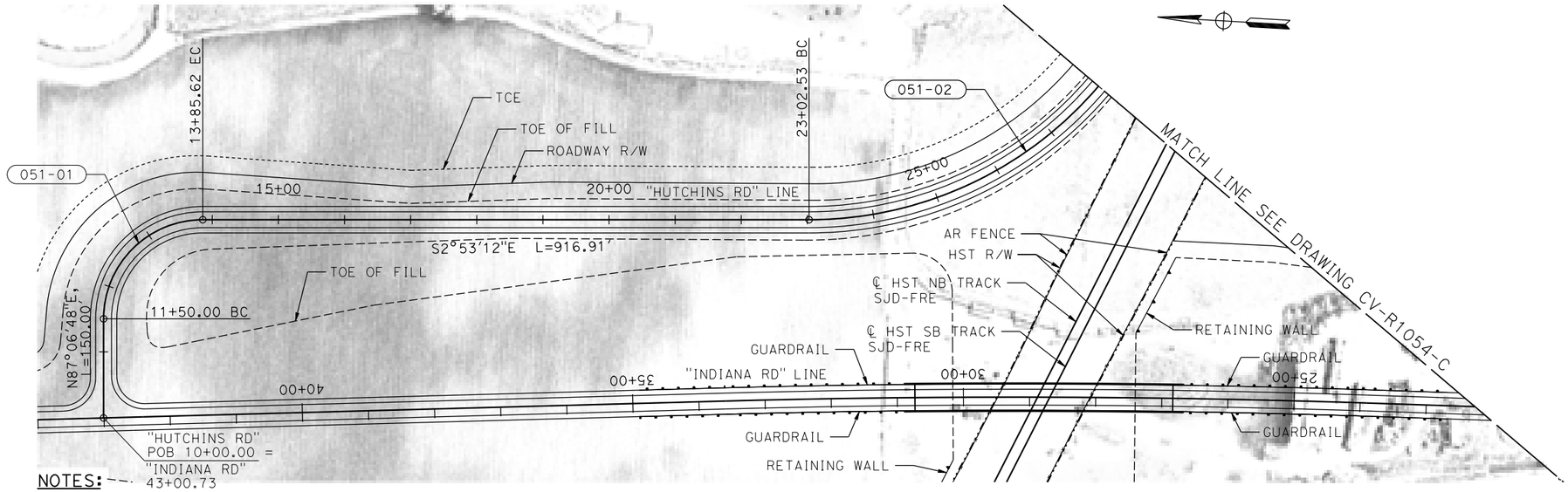
100 0 100 200 — HORIZ: 1"=100'




**PROFILE "HUTCHINS RD CONNECTOR" LINE**

| | | |

## MERCED COUNTY



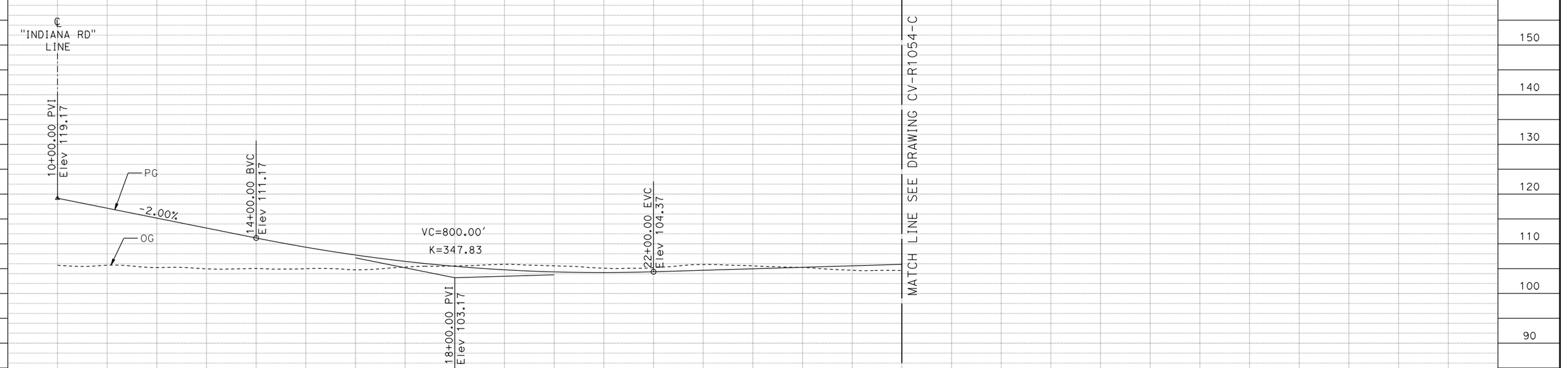

NOTES:

1. HUTCHINS ROAD DESIGNED WITH 30 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0060-C.

**PLAN**

VERT: 1"=10'

HORIZ: 1"=100'




**PROFILE "HUTCHINS RD" LINE**

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 11/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
HUTCHINS ROAD REALIGNMENT

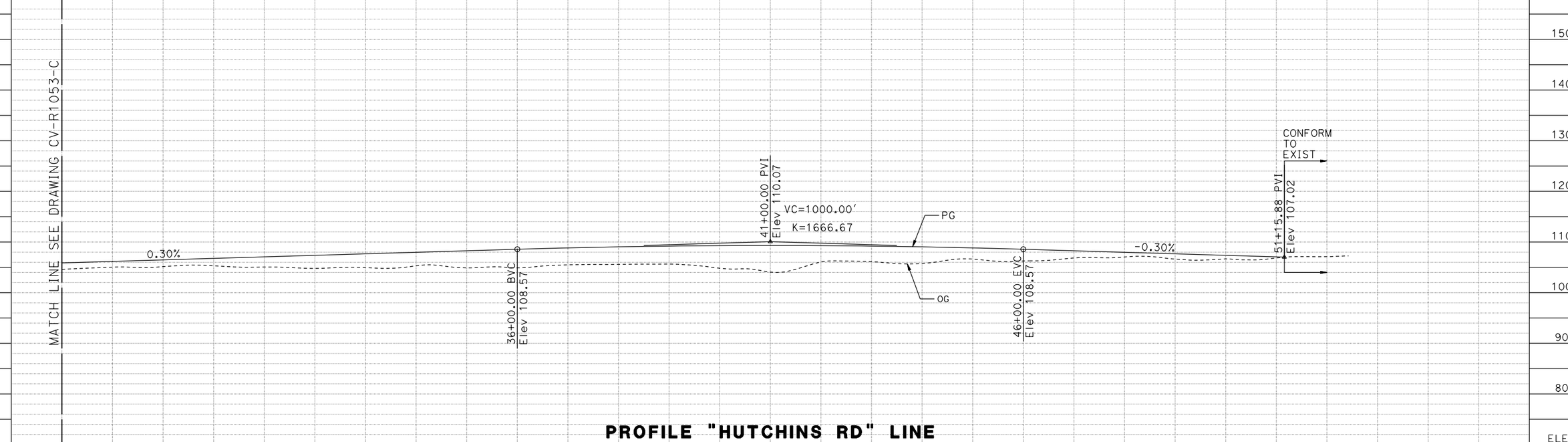
CONTRACT NO. HSR08-05
DRAWING NO. CV-R1053-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1053-C.dgn
22-NOV-2016 10:40
p0035486

## MERCED COUNTY

**PLAN**

NOTES:
1. HUTCHINS ROAD DESIGNED WITH 30 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0060-C.




**PROFILE "HUTCHINS RD" LINE**

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 11/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

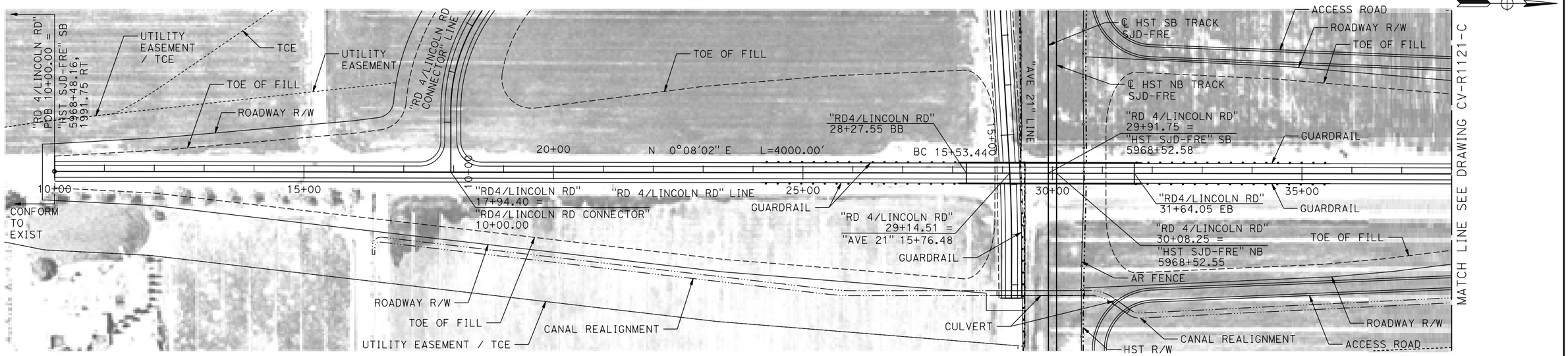
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
HUTCHINS ROAD REALIGNMENT

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1054-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1054-C.dgn
17-NOV-2016 10:49
p0035486

## MADERA COUNTY

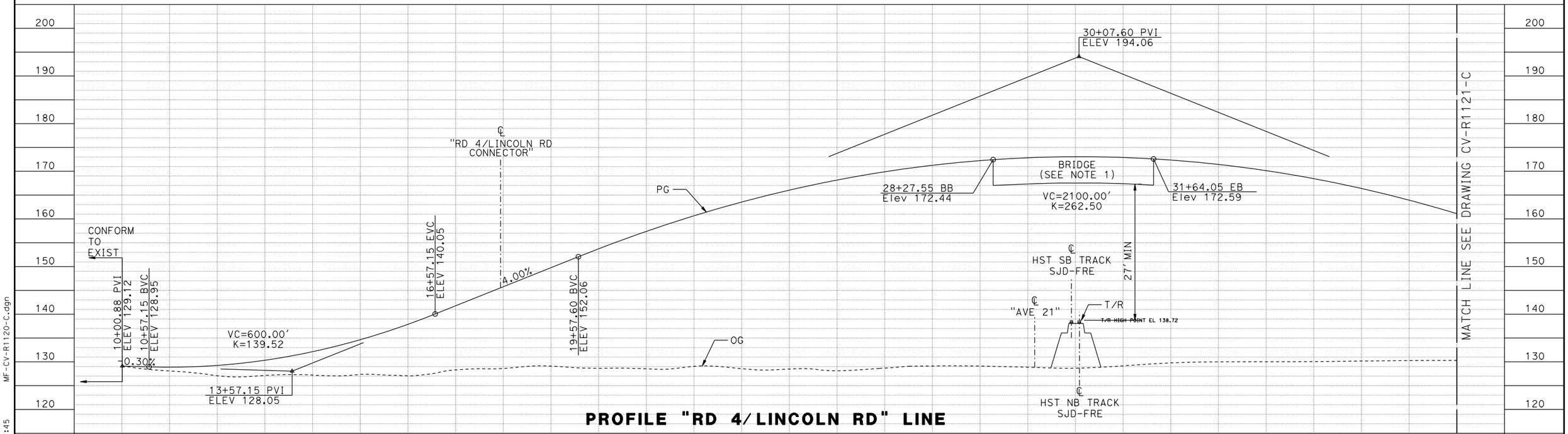



NOTES:

1. FOR DETAILS OF RD 4/LINCOLN RD OVERHEAD SEE STRUCTURE, VIADUCT AND TUNNEL PLANS DRAWING ST-K1120-C.
2. ROAD 4/ LINCOLN ROAD DESIGNED WITH 60 MPH DESIGN SPEED.

## PLAN

VERT: 1"=10' (10 0 10 20)  HORIZ: 1"=100' (100 0 100 200)




## PROFILE "RD 4/LINCOLN RD" LINE

| | | 10+00 | 15+00 | 20+00 | 25+00 | 30+00 | 35+00 | TOTAL |
|---|---|---|---|---|---|---|---|---|
| STATION | | | | | | | | |
| CY | EXC | | | | | | | |
| | EMB | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

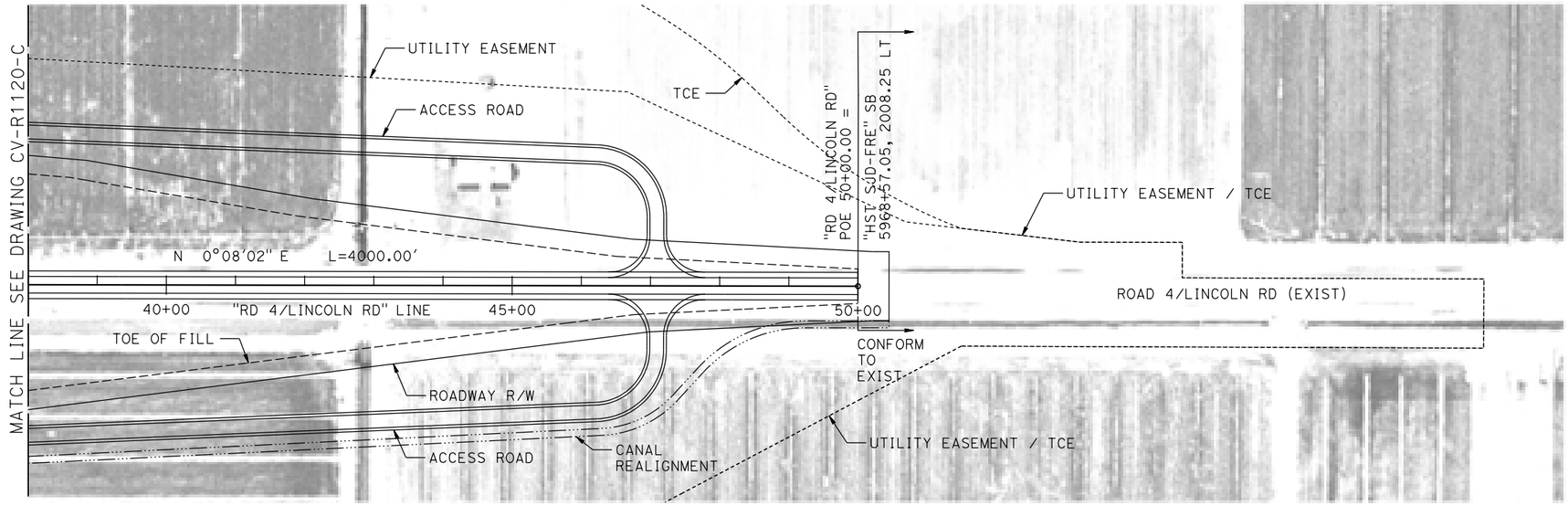
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 4 / LINCOLN ROAD GRADE SEPARATION

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1120-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1120-C.dgn
17-MAR-2016 7:45
p0051133A

## MADERA COUNTY



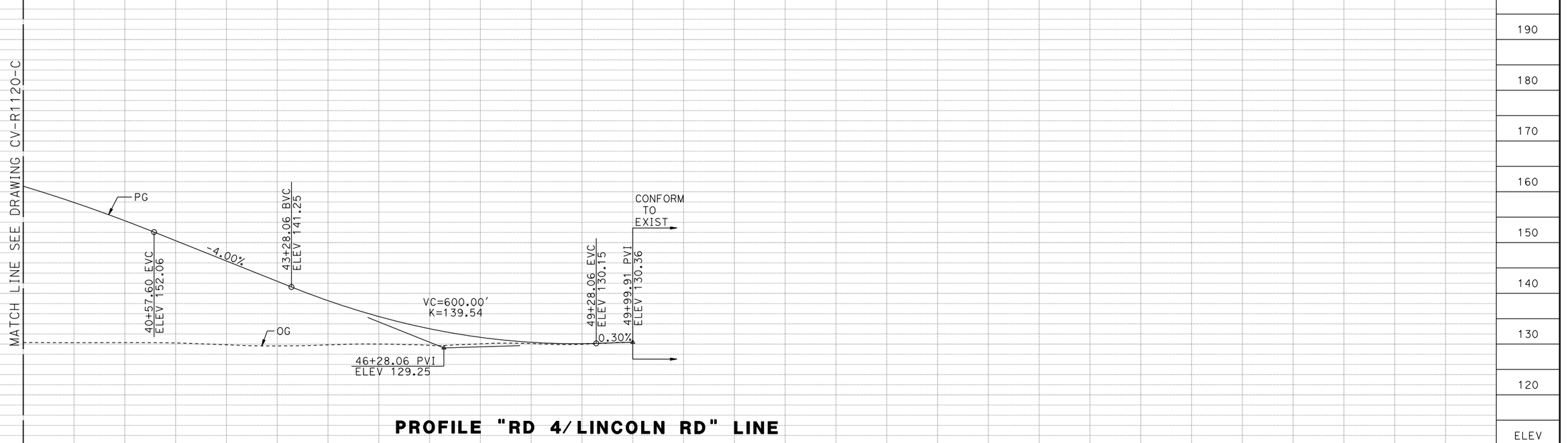

**PLAN**

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'

NOTES:

1. ROAD 4/ LINCOLN ROAD DESIGNED WITH 60 MPH DESIGN SPEED.




**PROFILE "RD 4/LINCOLN RD" LINE**

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

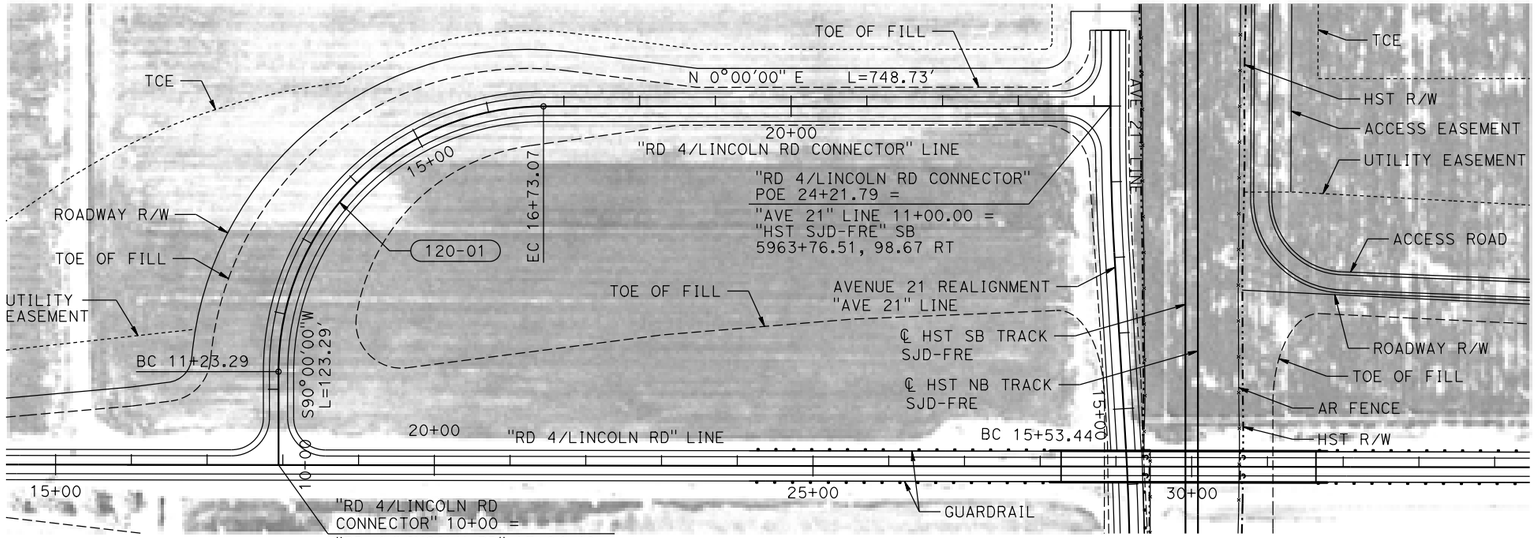
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 4 / LINCOLN ROAD GRADE SEPARATION

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1121-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1121-C.dgn
17-MAR-2016 7:45
p005133A

## MADERA COUNTY



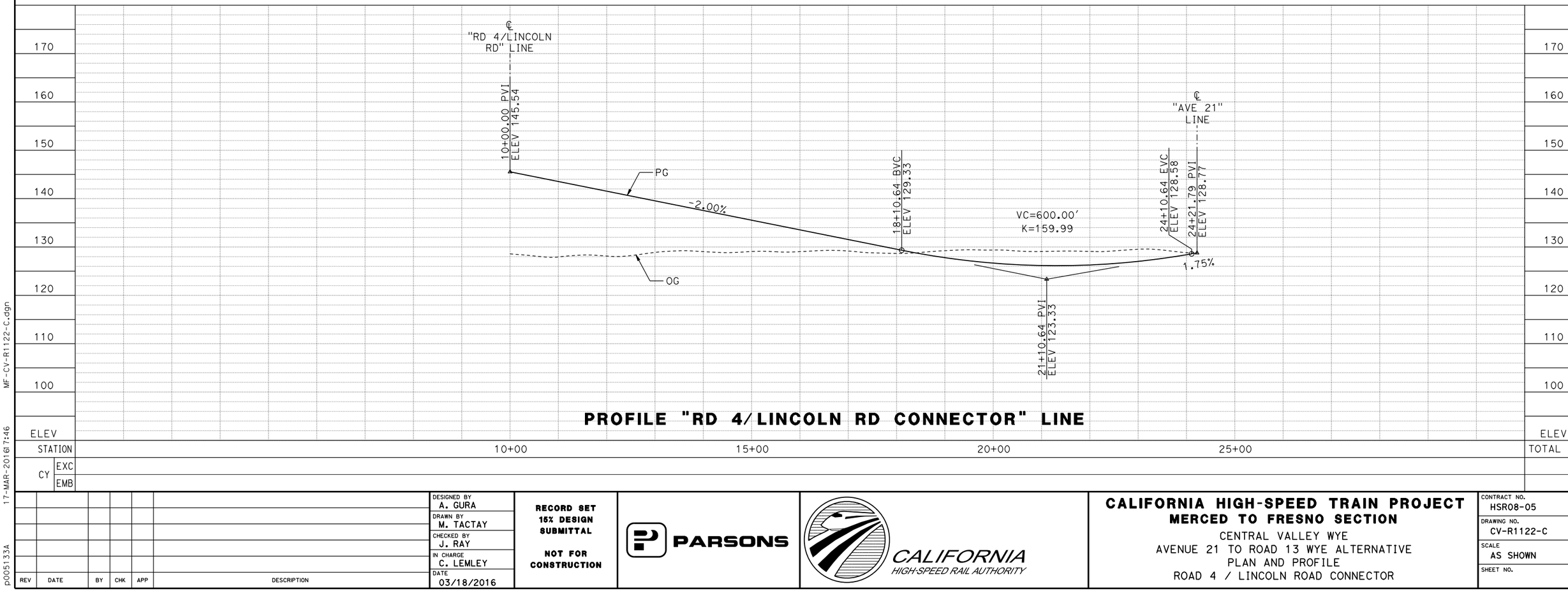

NOTES:

1. ROAD 4/ LINCOLN ROAD CONNECTOR DESIGNED WITH 25 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0060-C.

**PLAN**

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




**PROFILE "RD 4/LINCOLN RD CONNECTOR" LINE**

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

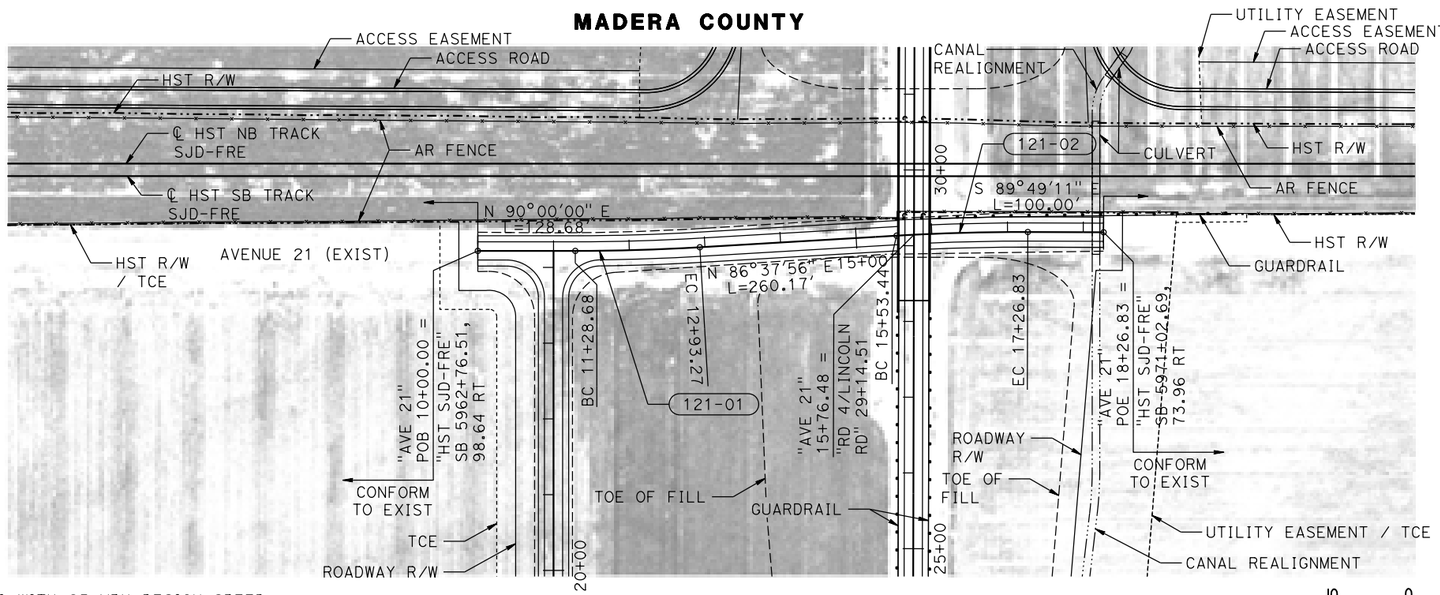
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 4 / LINCOLN ROAD CONNECTOR

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1122-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1122-C.dgn
17-MAR-2016 7:46
p005133A

## MADERA COUNTY



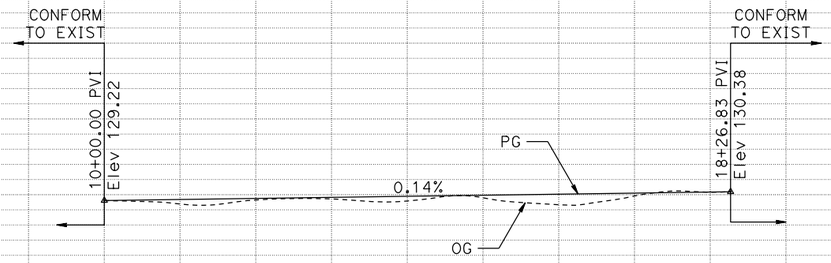

## PLAN

NOTES:

1. AVENUE 21 REALIGNMENT AT ROAD 4 DESIGNED WITH 25 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0060-C.

VERT: 1"=10'

HORIZ: 1"=100'




## PROFILE "AVE 21" LINE

| | | | | | | |
|---|---|---|---|---|---|---|
| ELEV | 180 | 170 | 160 | 150 | 140 | 130 | 120 | 110 | ELEV |
| STATION | | 10+00 | | 15+00 | | 20+00 | | 15+00 | TOTAL |
| CY EXC | | | | | | | | | |
| CY EMB | | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

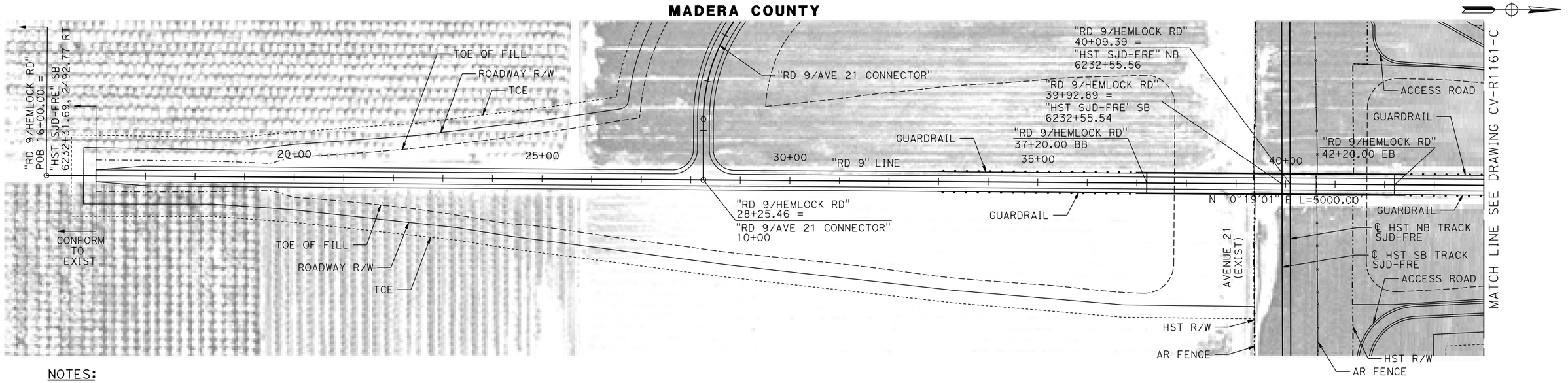
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
AVENUE 21 REALIGNMENT AT ROAD 4

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1123-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1123-C.dgn
17-MAR-2016 7:47
p0051334

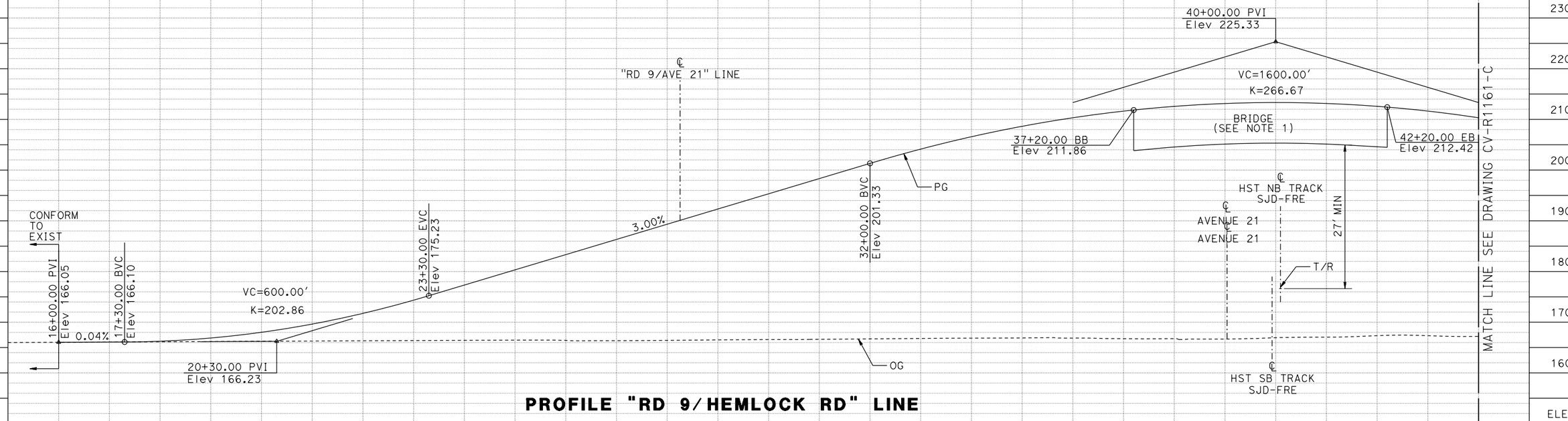



NOTES:

1. FOR DETAIL OF ROAD 9/ HEMLOCK ROAD OVERHEAD SEE STRUCTURE, VIADUCT AND TUNNEL PLANS DRAWING ST-K1160-C.
2. ROAD 9/ HEMLOCK ROAD DESIGNED WITH 60 MPH DESIGN SPEED.

**PLAN**

VERT: 1"=10'  HORIZ: 1"=100'




**PROFILE "RD 9/HEMLOCK RD" LINE**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| STATION | | 16+00 | 20+00 | 25+00 | 30+00 | 35+00 | 40+00 | 44+00 |
| CY | EXC | | | | | | | TOTAL |
| | EMB | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

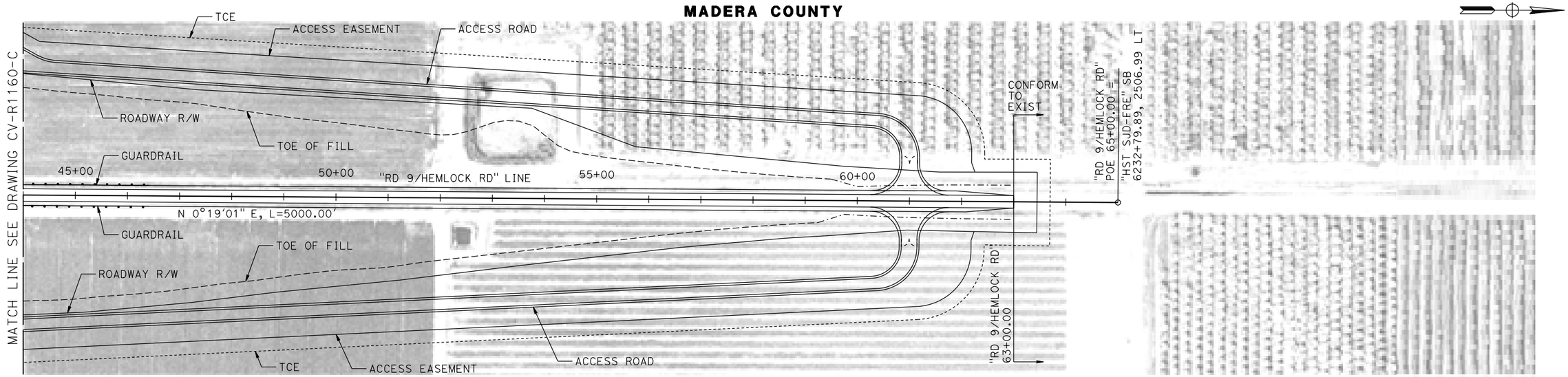
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 9 / HEMLOCK ROAD GRADE SEPARATION

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1160-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1160-C.dgn
17-MAR-2016 7:47
p0051133A

## MADERA COUNTY



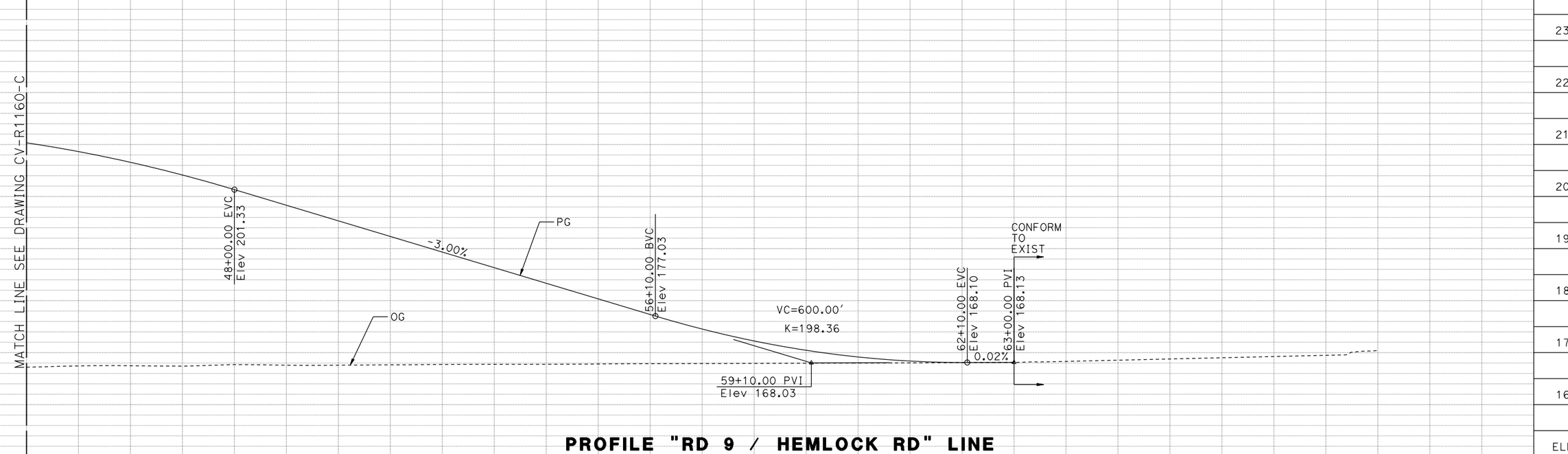

## PLAN

NOTES:

1. ROAD 9/ HEMLOCK ROAD DESIGNED WITH 60 MPH DESIGN SPEED.

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




## PROFILE "RD 9 / HEMLOCK RD" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: J. RAY
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

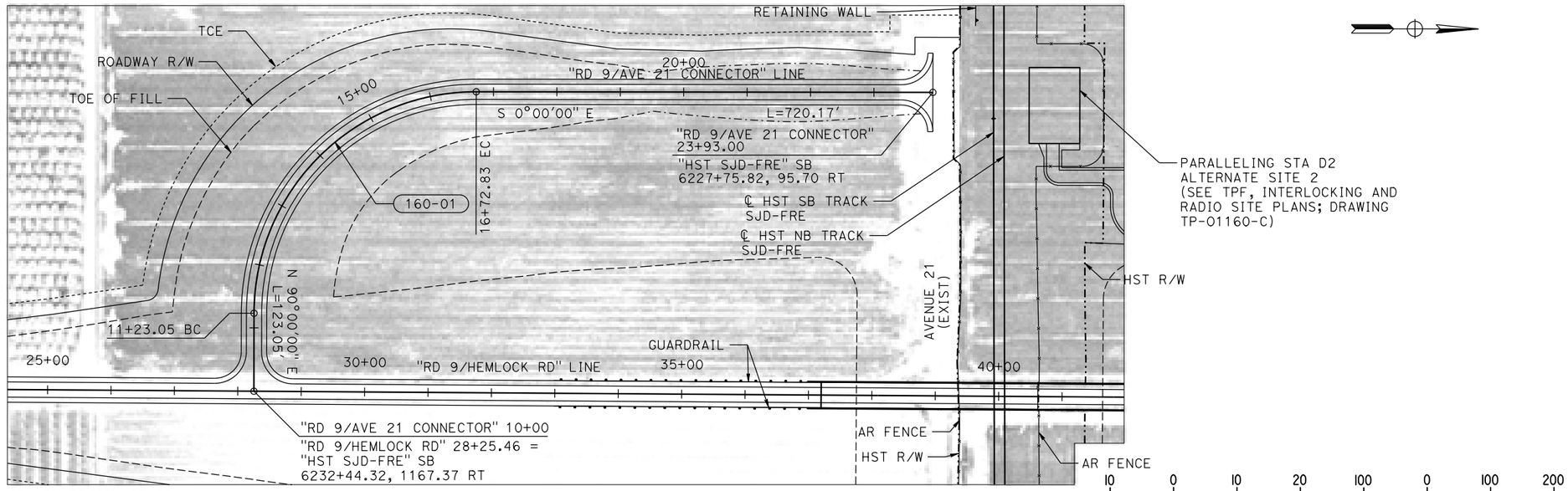
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 9 / HEMLOCK ROAD GRADE SEPARATION

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1161-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1161-C.dgn
17-MAR-2016 7:48
p005133A

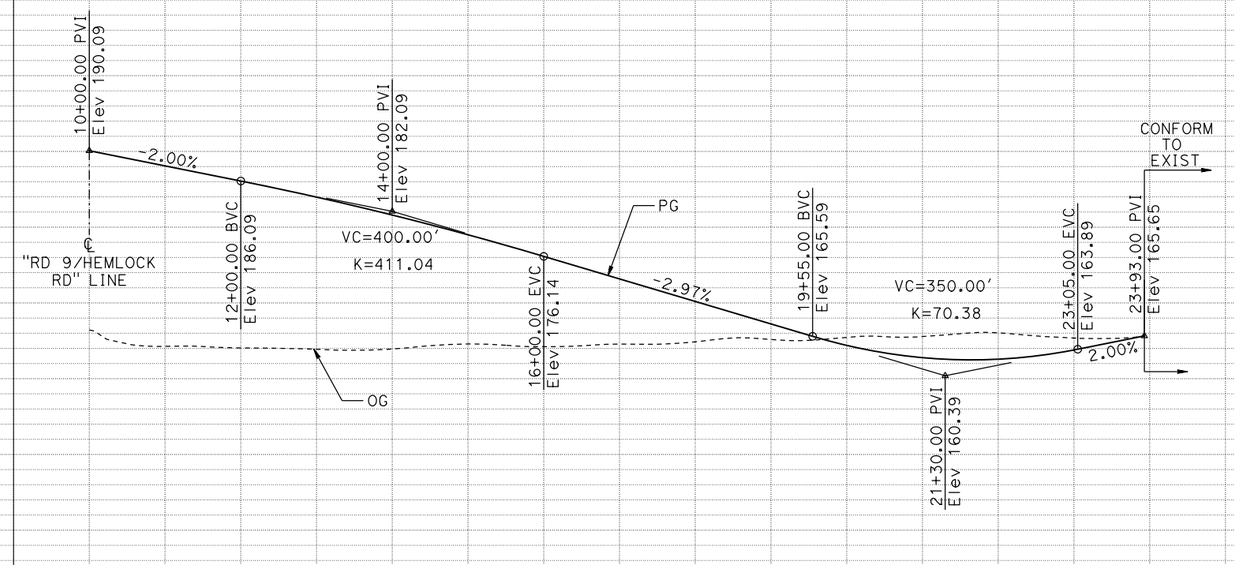
## MADERA COUNTY




## PLAN

NOTES:

1. ROAD 9/AVENUE 21 CONNECTOR DESIGNED WITH 25 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0060-C.




## PROFILE "RD 9/ AVE 21 CONNECTOR" LINE

| | | 10+00 | 15+00 | 20+00 | 25+00 | TOTAL |
|---|---|---|---|---|---|---|
| CY | EXC | | | | | |
| | EMB | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

PARSONS

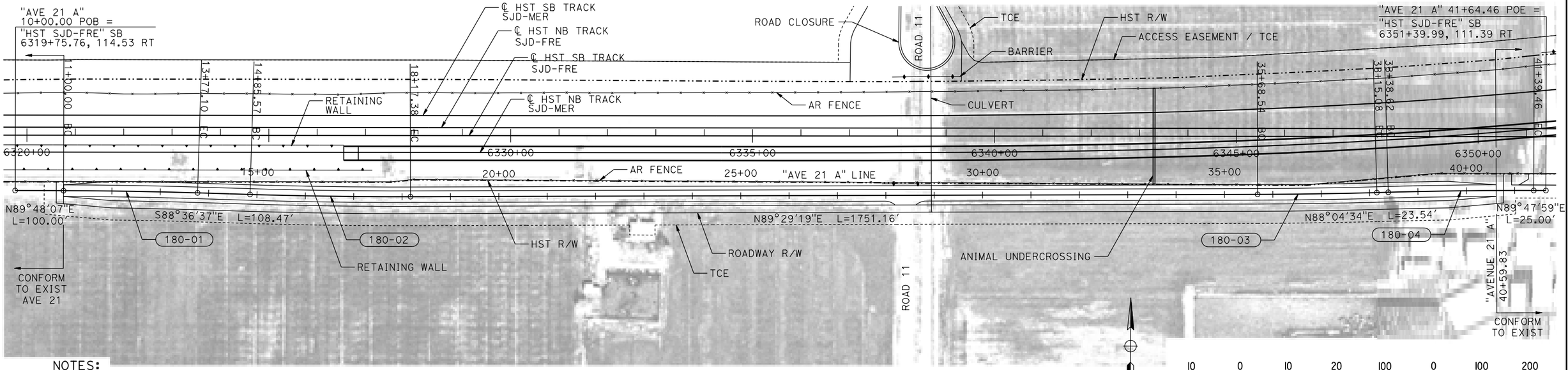
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 9 / AVENUE 21 CONNECTOR

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1162-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1162-C.dgn
17-MAR-2016 7:48
p0051334

## MANDERA COUNTY



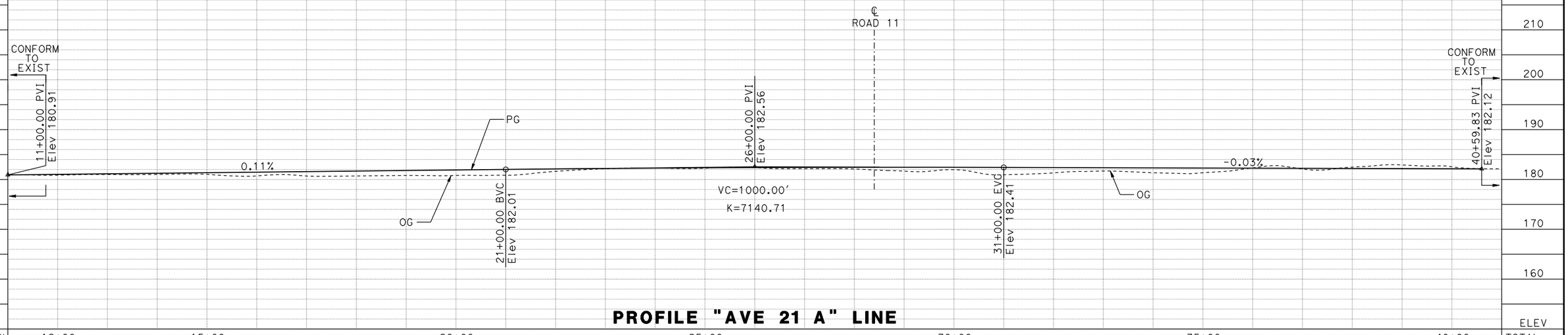

**NOTES:**

1. AVENUE 21 A DESIGNED WITH 25 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0060-C.

## PLAN

VERT: 1"=10'

HORIZ: 1"=100'




## PROFILE "AVE 21 A" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: J. RAY
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

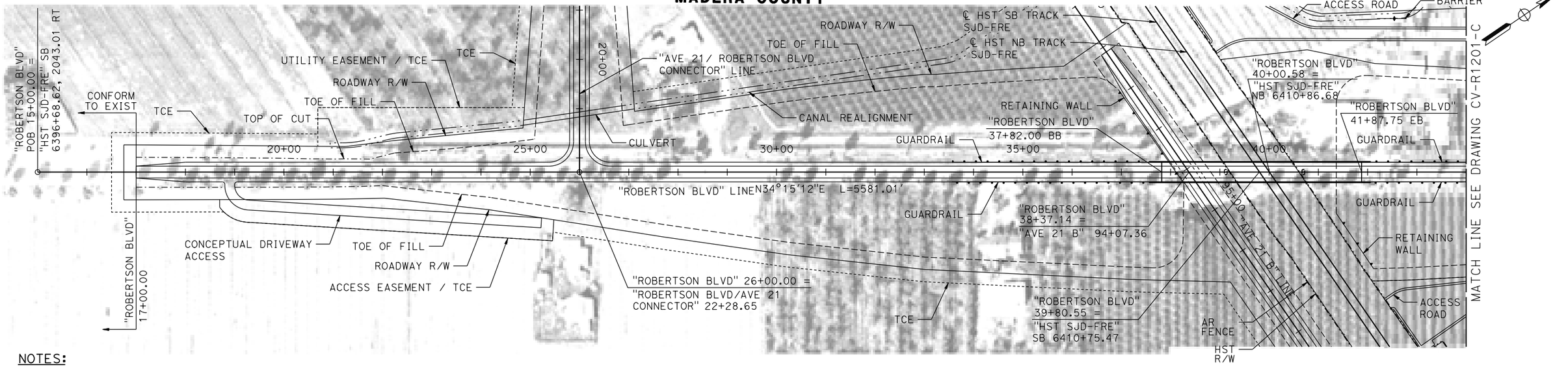
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
AVENUE 21 REALIGNMENT AT ROAD 11

CONTRACT NO. HSR08-05
DRAWING NO. CV-R1180-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1180-C.dgn
17-MAR-2016 7:49
p0051334

## MADERA COUNTY



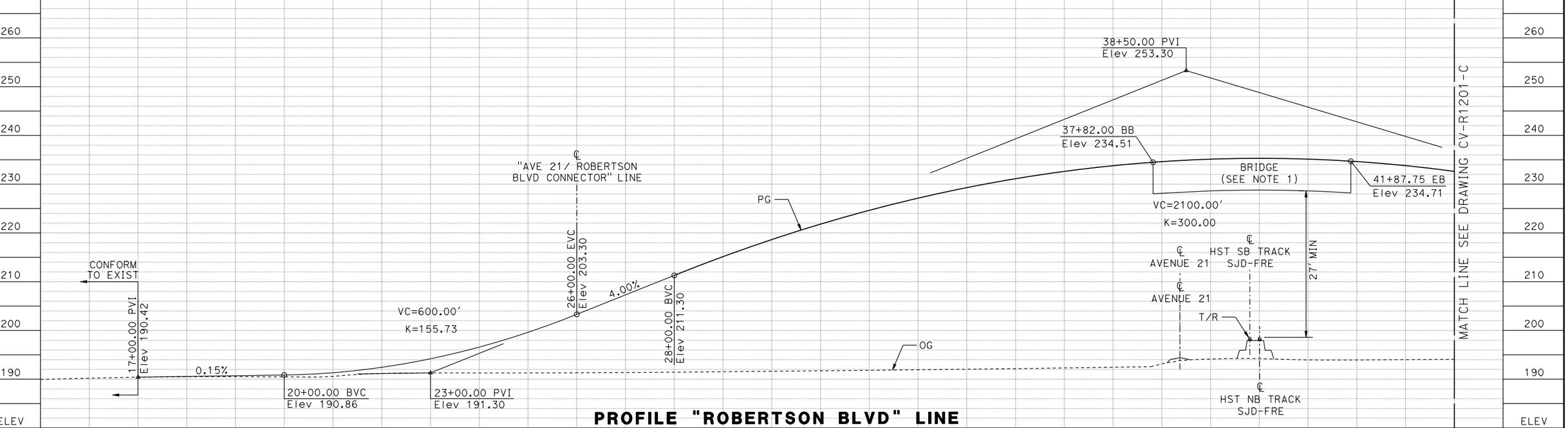

NOTES:

1. FOR DETAIL OF ROBERTSON BLVD/SR 233 OVERHEAD SEE STRUCTURE, VIADUCT AND TUNNEL PLANS DRAWING ST-K1200-C.
2. ROBERTSON BLVD DESIGNED WITH 60 MPH DESIGN SPEED.

**PLAN**

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




**PROFILE "ROBERTSON BLVD" LINE**

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

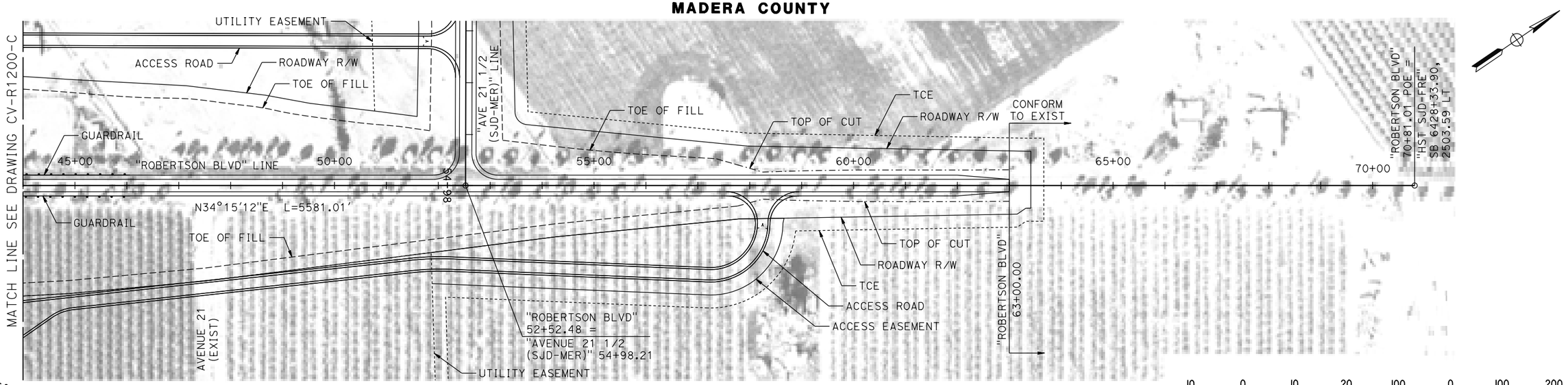
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROBERTSON BLVD GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1200-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1200-C.dgn
17-MAR-2016 7:49
p0051133A

MADERA COUNTY



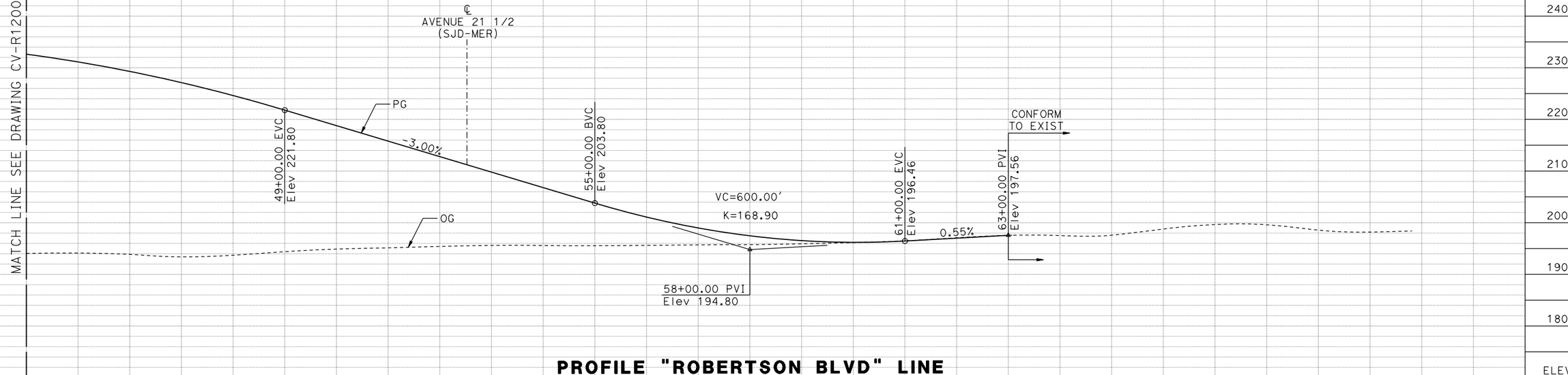

NOTES:

1. ROBERTSON BLVD DESIGNED WITH 60 MPH DESIGN SPEED.

**PLAN**

VERT: 1"=10'

HORIZ: 1"=100'




**PROFILE "ROBERTSON BLVD" LINE**

| STATION | 45+00 | 50+00 | 55+00 | 60+00 | 65+00 | 70+00 | TOTAL |
|---|---|---|---|---|---|---|---|
| CY EXC | | | | | | | |
| CY EMB | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

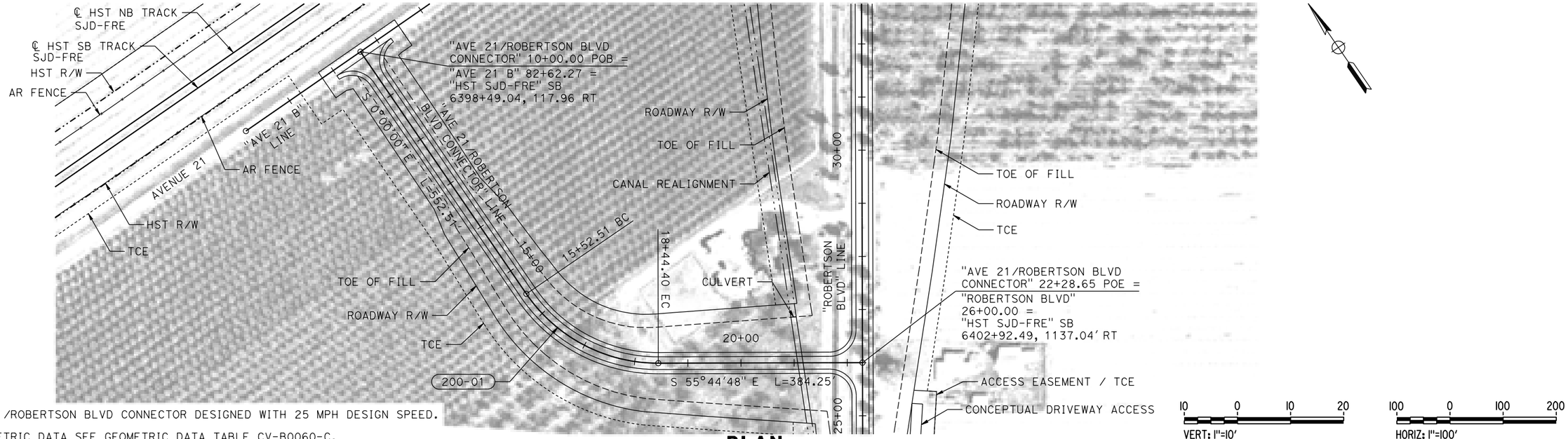
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROBERTSON BLVD GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1201-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1201-C.dgn
17-MAR-2016 7:50
p0051133A

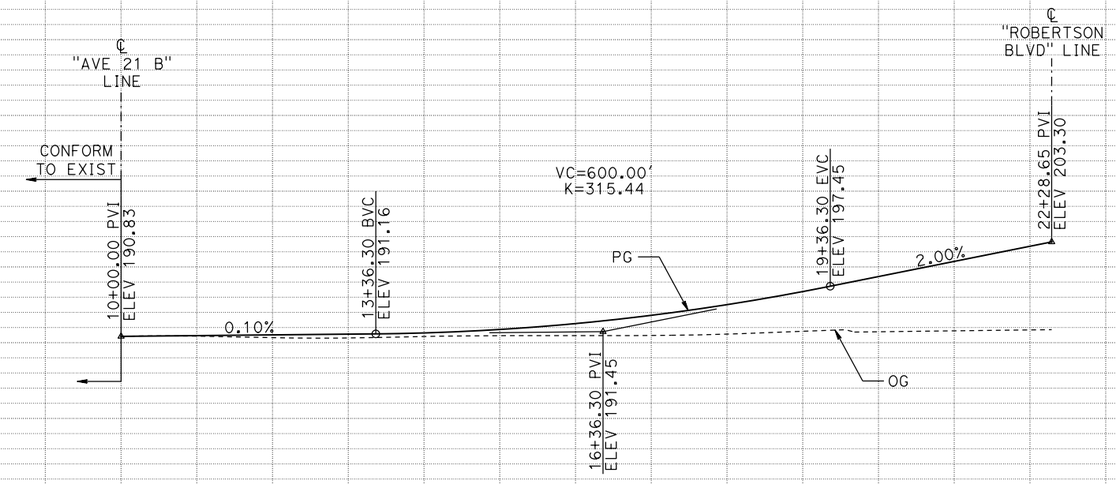
## MADERA COUNTY




NOTES:

1. AVENUE 21/ROBERTSON BLVD CONNECTOR DESIGNED WITH 25 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0060-C.

## PLAN




## PROFILE "AVE 21/ROBERTSON BLVD CONNECTOR" LINE

ELEV: 240, 230, 220, 210, 200, 190, 180, 170

STATION: 10+00, 15+00, 20+00

CY: EXC, EMB

TOTAL

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: J. RAY
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

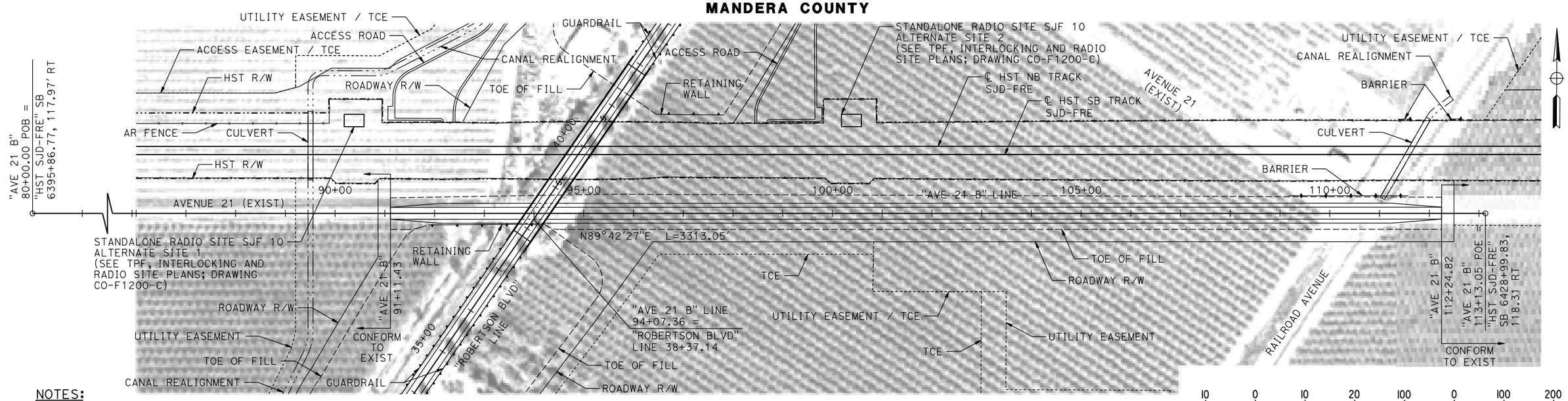
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
AVENUE 21 / ROBERTSON BLVD CONNECTOR

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1202-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1202-C.dgn
17-MAR-2016 7:51
p0051334

## MANDERA COUNTY




NOTES:

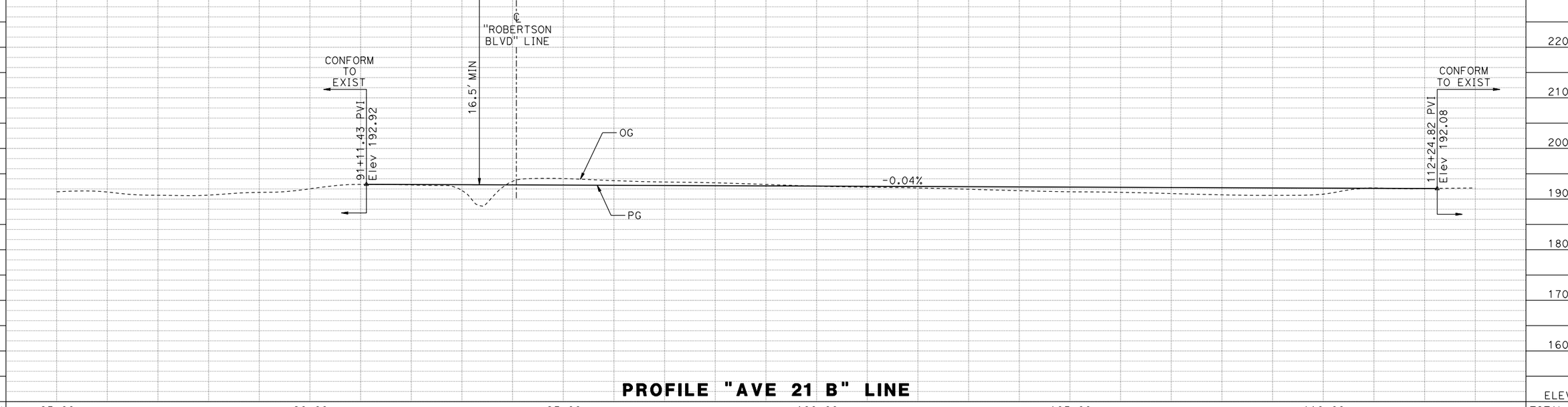
1. AVENUE 21 REALIGNMENT AT ROBERTSON BLVD DESIGNED WITH 65 MPH DESIGN SPEED.

VERT: 1"=10'

HORIZ: 1"=100'

## PLAN

## PROFILE "AVE 21 B" LINE




| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

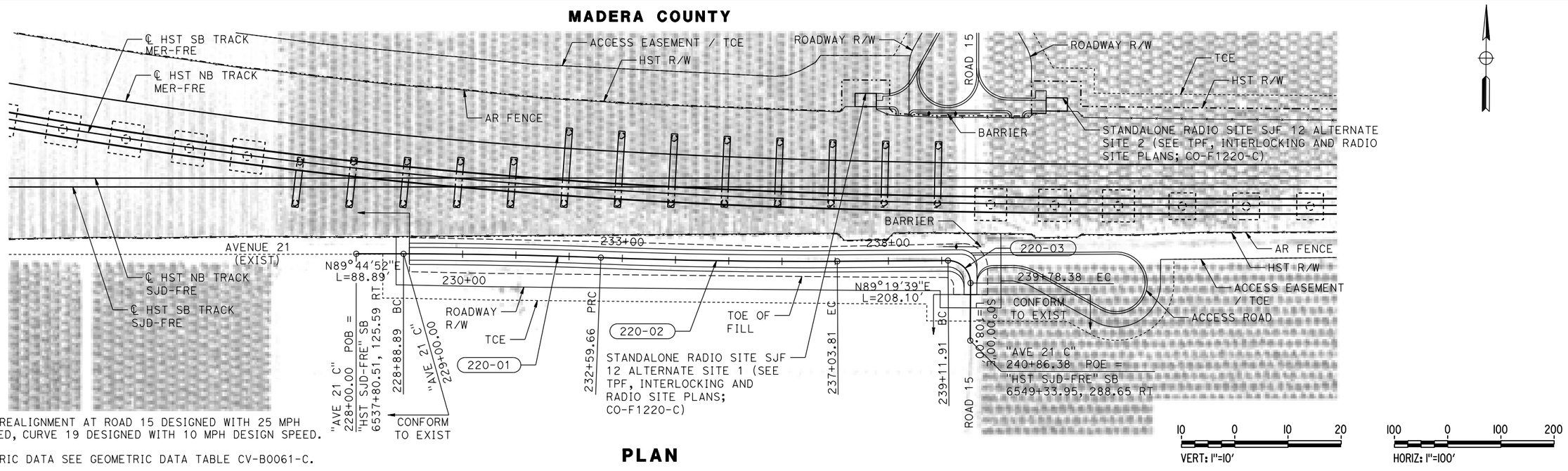
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
AVENUE 21 REALIGNMENT AT ROBERTSON BLVD

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1203-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1203-C.dgn
17-MAR-2016 17:51
p0051133A

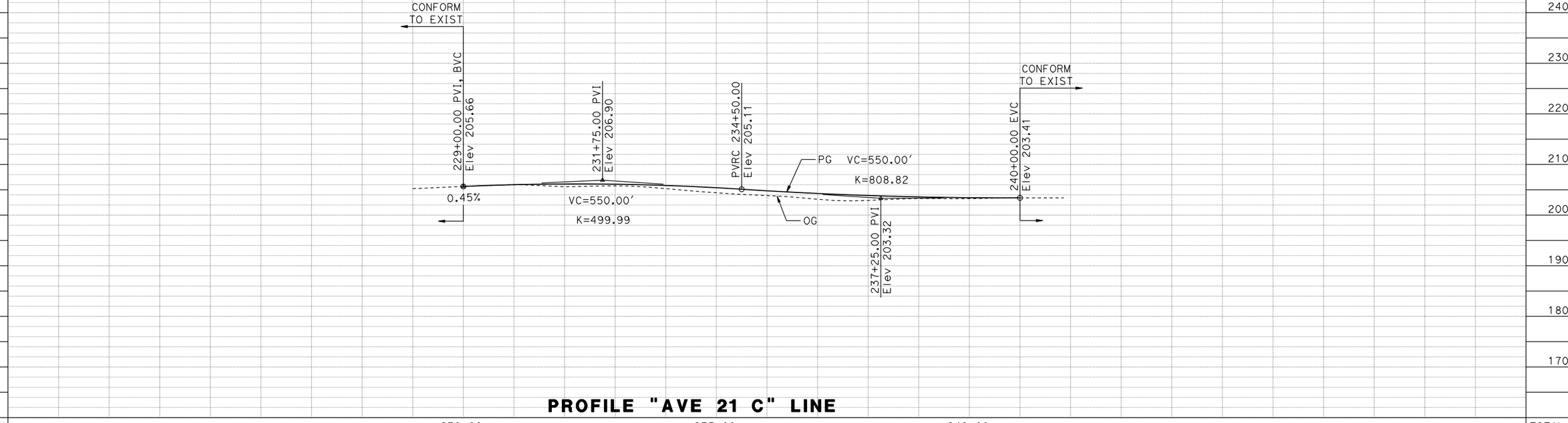
## MADERA COUNTY




**PLAN**

NOTES:

1. AVENUE 21 REALIGNMENT AT ROAD 15 DESIGNED WITH 25 MPH DESIGN SPEED, CURVE 19 DESIGNED WITH 10 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0061-C.




**PROFILE "AVE 21 C" LINE**

| STATION | | 230+00 | 235+00 | 240+00 | TOTAL |
|---|---|---|---|---|---|
| CY | EXC | | | | |
| | EMB | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

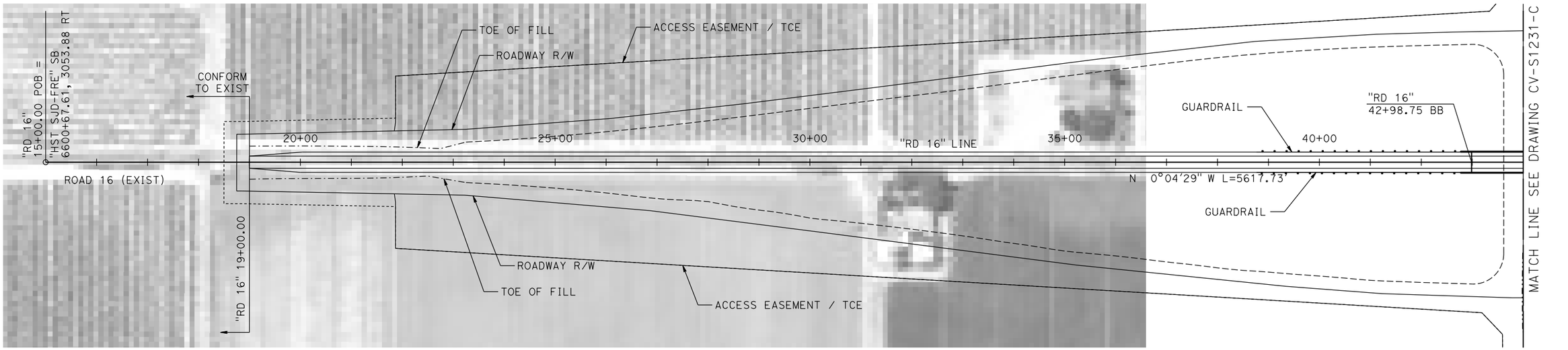
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
AVENUE 21 REALIGNMENT AT ROAD 15

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1220-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1220-C.dgn
17-MAR-2016 7:52
p0051334

## MADERA COUNTY



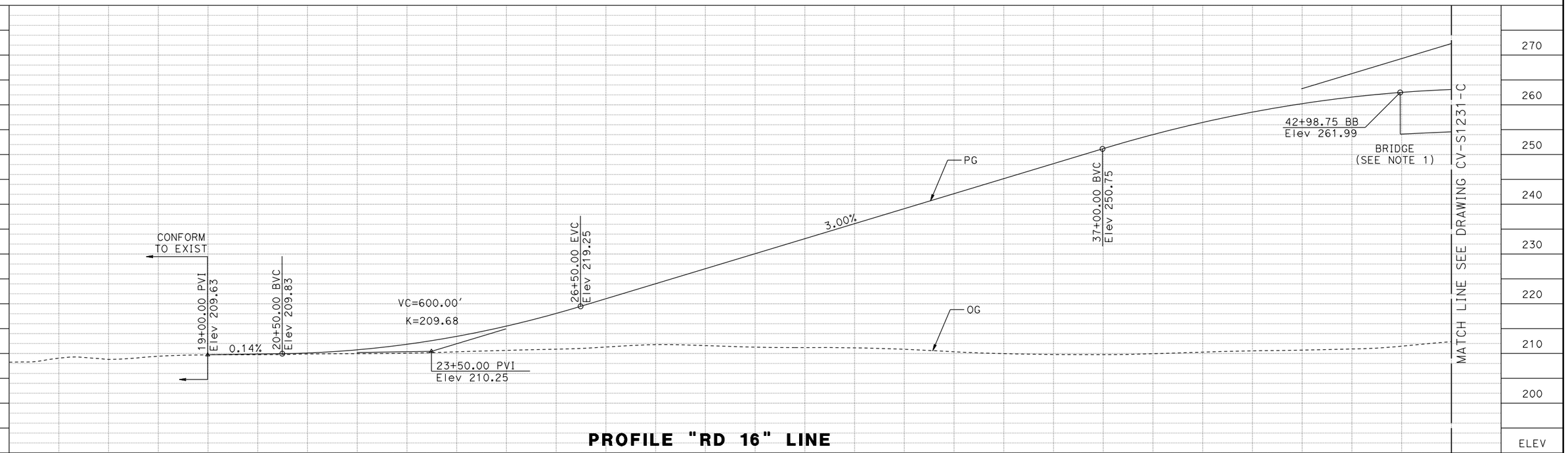

NOTES:

1. FOR DETAIL OF ROAD 16 OVERHEAD SEE STRUCTURE, VIADUCT AND TUNNEL PLANS DRAWING ST-K1230-C.
2. ROAD 16 DESIGNED WITH 60 MPH DESIGN SPEED.

## PLAN

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




## PROFILE "RD 16" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

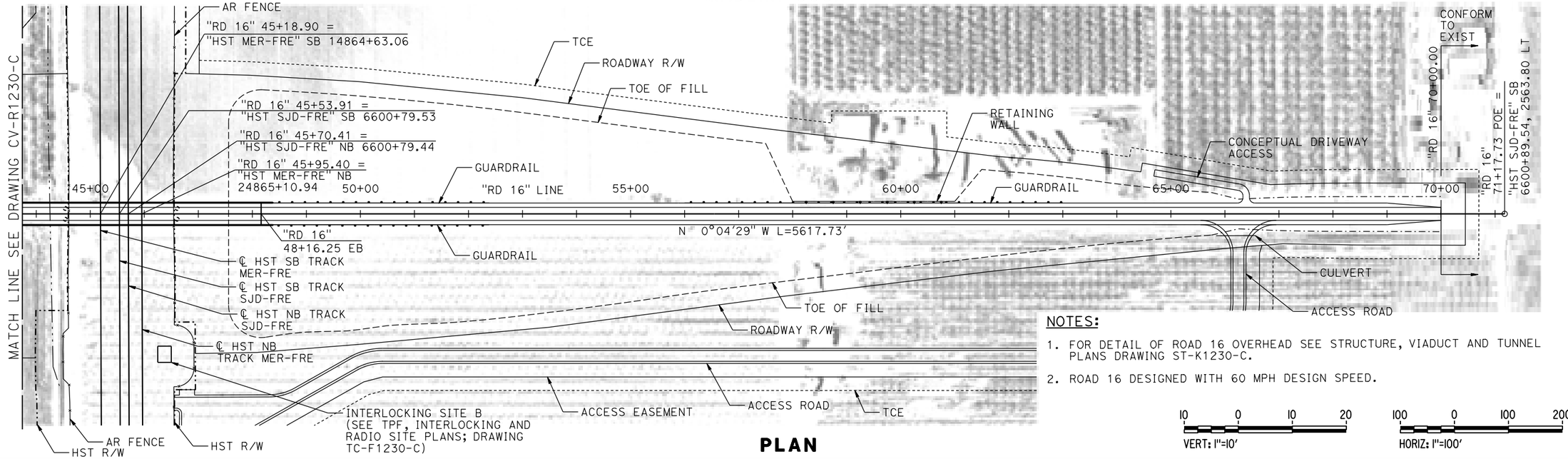
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 16 GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1230-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1230-C.dgn
17-MAR-2016 7:52
p0051133A

MADERA COUNTY



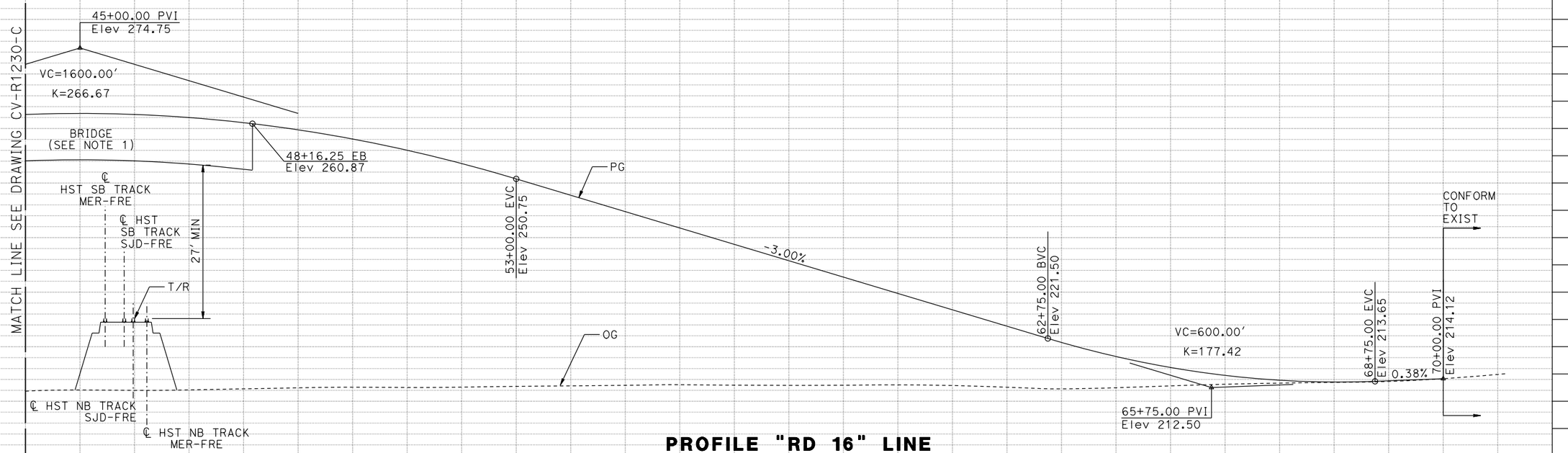

PLAN

NOTES:

1. FOR DETAIL OF ROAD 16 OVERHEAD SEE STRUCTURE, VIADUCT AND TUNNEL PLANS DRAWING ST-K1230-C.
2. ROAD 16 DESIGNED WITH 60 MPH DESIGN SPEED.

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




PROFILE "RD 16" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

PARSONS

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

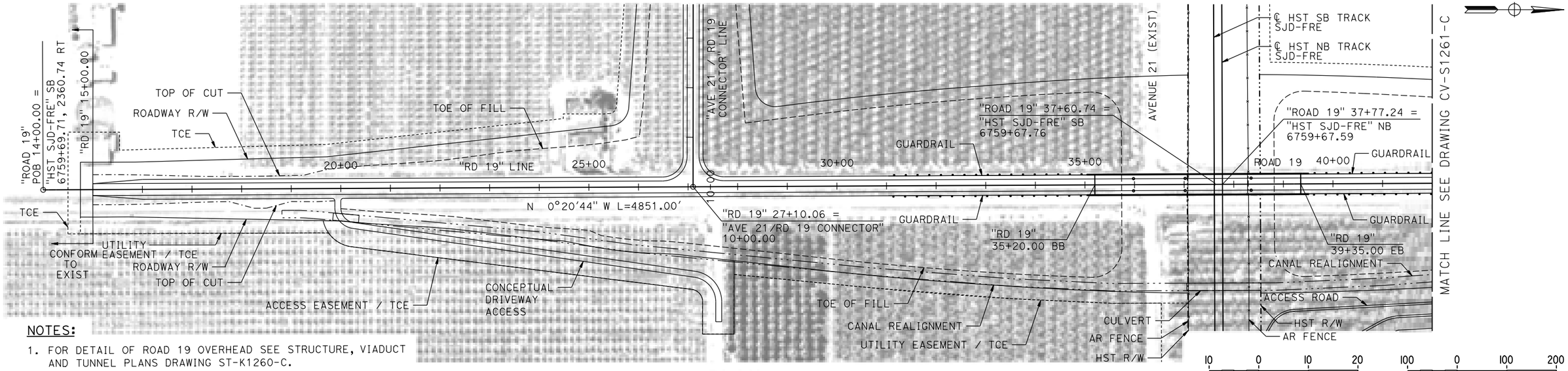
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 16 GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1231-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1231-C.dgn
18-MAR-2016 3:46
p0051133A

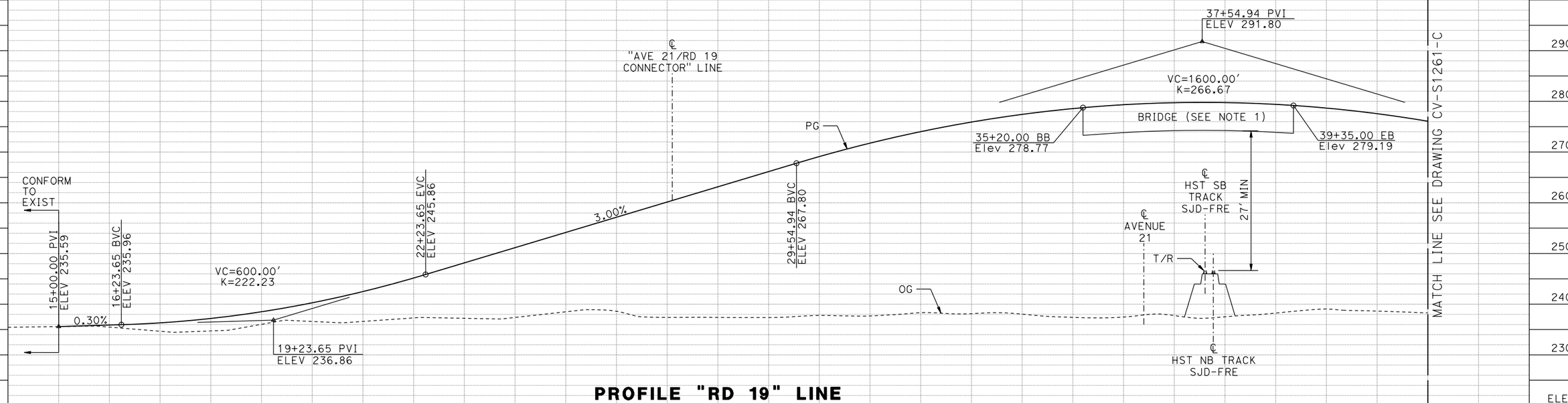
## MADERA COUNTY




### NOTES:

1. FOR DETAIL OF ROAD 19 OVERHEAD SEE STRUCTURE, VIADUCT AND TUNNEL PLANS DRAWING ST-K1260-C.
2. ROAD 19 DESIGNED WITH 60 MPH DESIGN SPEED.

## PLAN




## PROFILE "RD 19" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

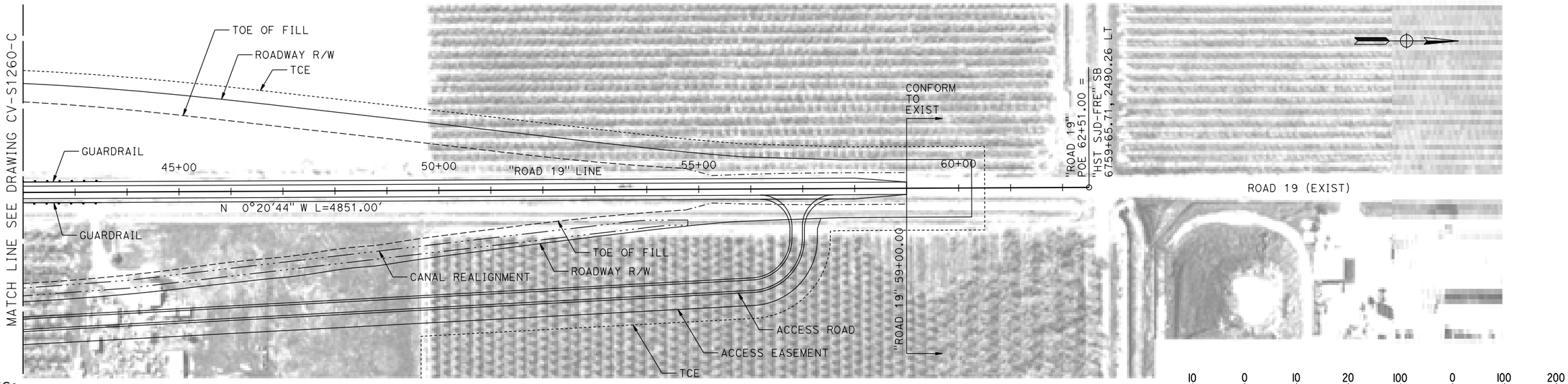
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 19 GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1260-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1260-C.dgn
17-MAR-2016 7:53
p0051133A

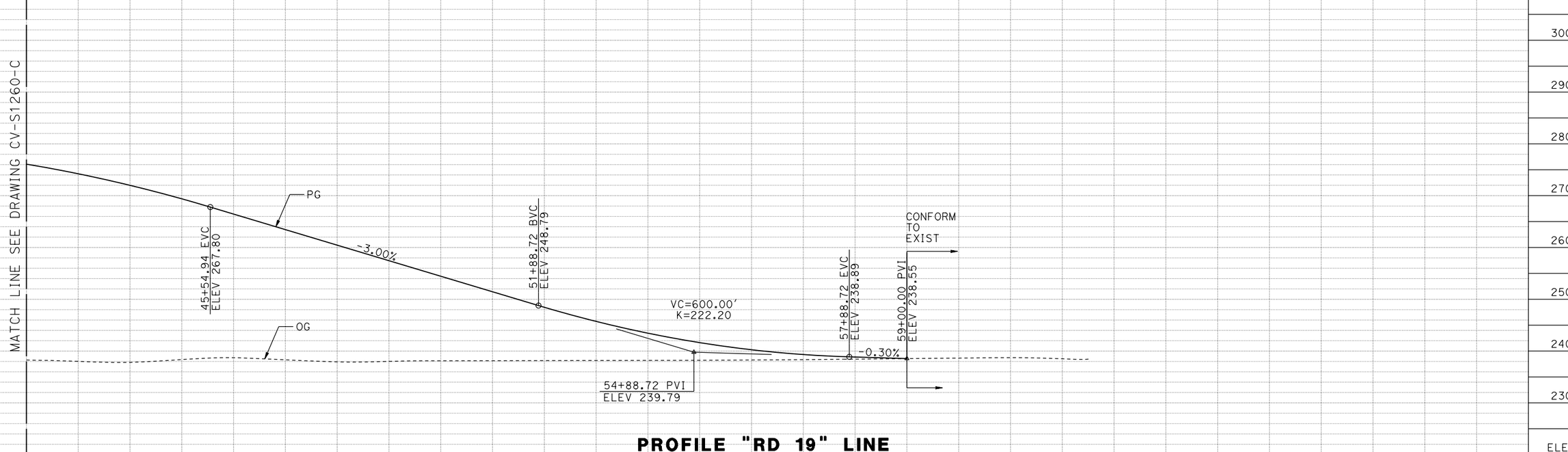
## MADERA COUNTY




NOTES:

1. ROAD 19 DESIGNED WITH 60 MPH DESIGN SPEED.

**PLAN**




**PROFILE "RD 19" LINE**

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

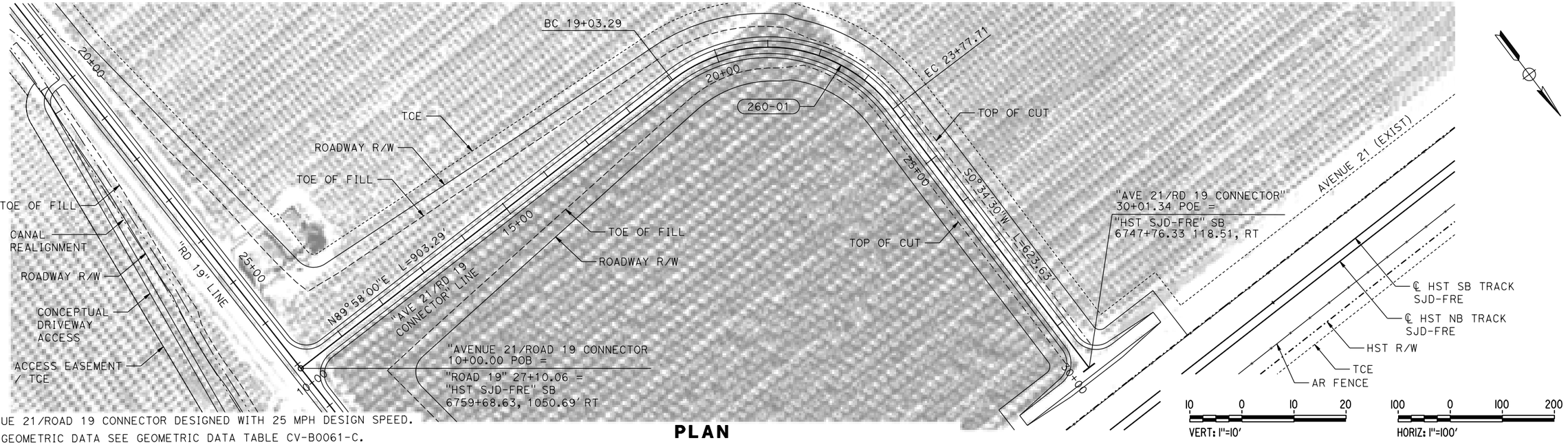
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 19 GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1261-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1261-C.dgn
17-MAR-2016 7:53
p0051133A

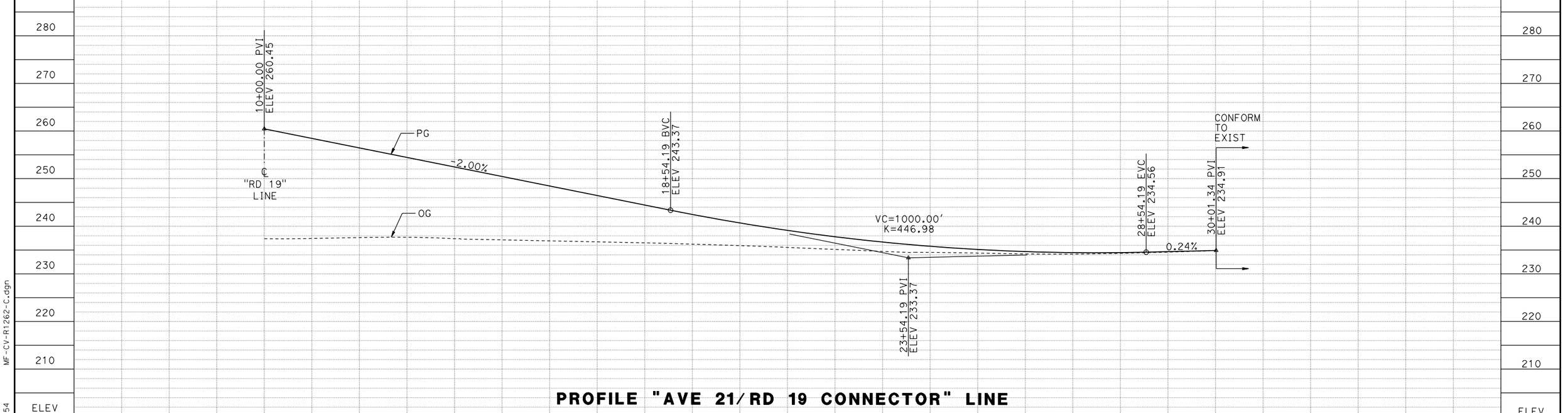
MADERA COUNTY




PLAN

NOTES:

1. AVENUE 21/ROAD 19 CONNECTOR DESIGNED WITH 25 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0061-C.




PROFILE "AVE 21/RD 19 CONNECTOR" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

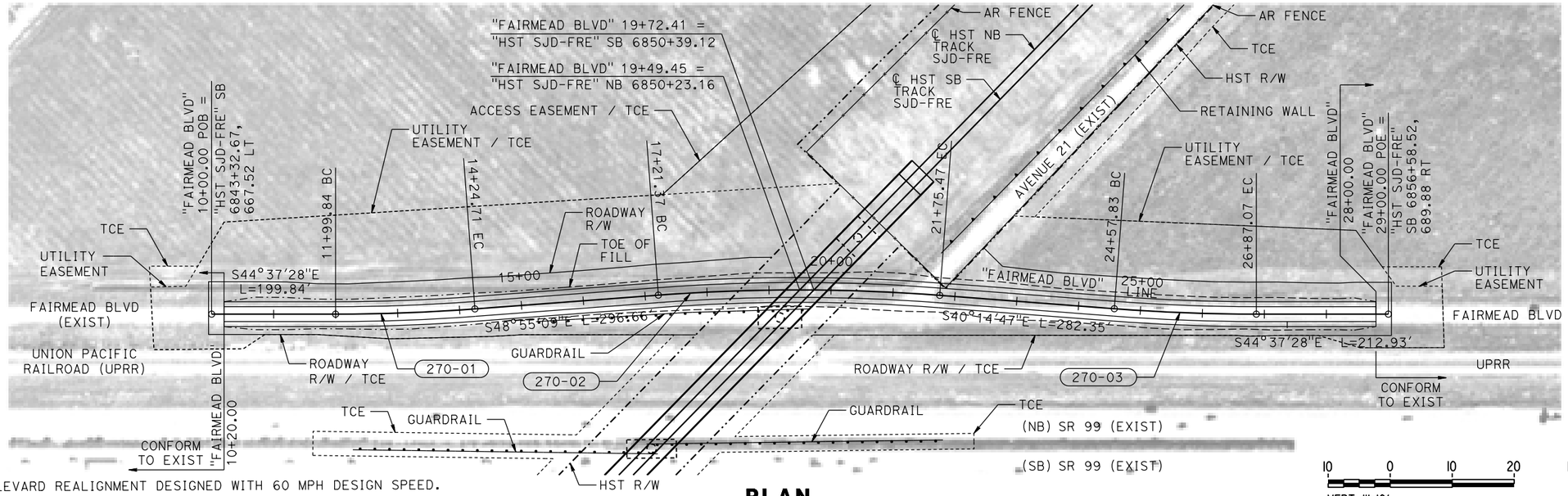
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
AVENUE 21/ ROAD 19 CONNECTOR

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1262-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1262-C.dgn
17-MAR-2016 7:54
p0051133A

## MANDERA COUNTY



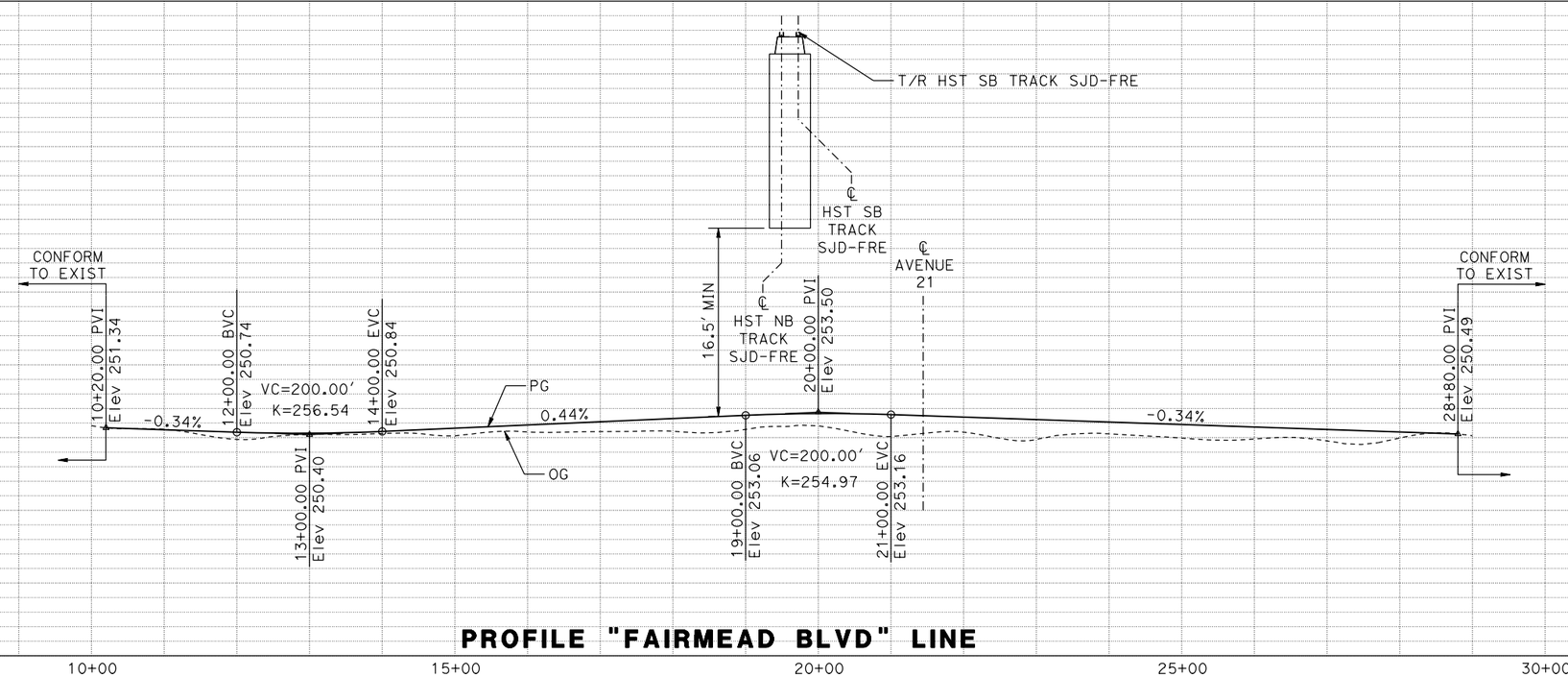

**PLAN**

VERT: 1"=10' (10 0 10 20)

HORIZ: 1"=100' (100 0 100 200)

NOTES:

1. FAIRMEAD BOULEVARD REALIGNMENT DESIGNED WITH 60 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0061-C.




**PROFILE "FAIRMEAD BLVD" LINE**

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
FAIRMEAD BLVD REALIGNMENT

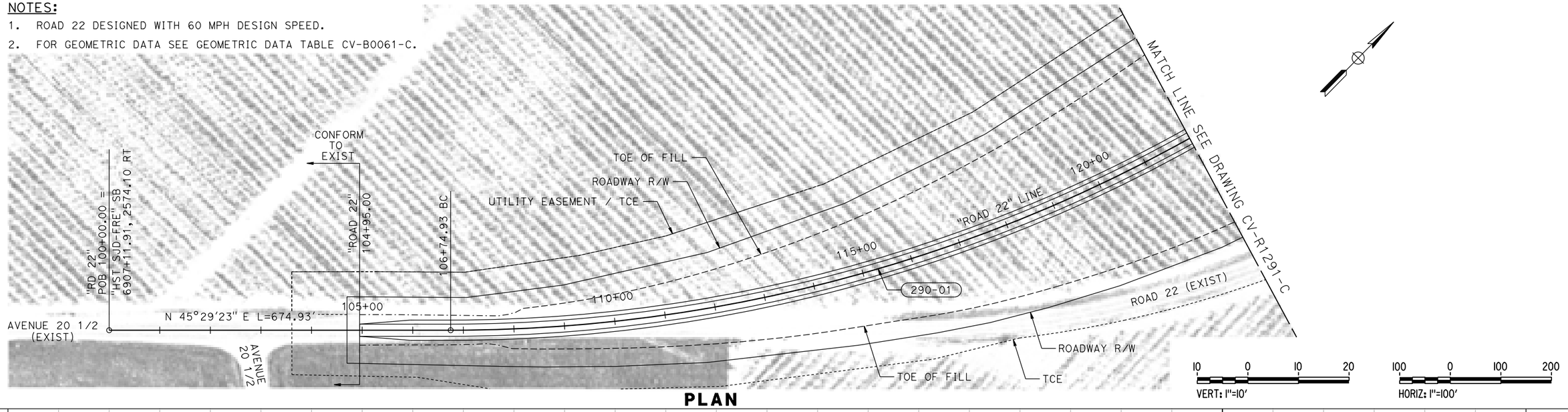
CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1270-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1270-C.dgn
18-MAR-2016 3:46
p0051133A

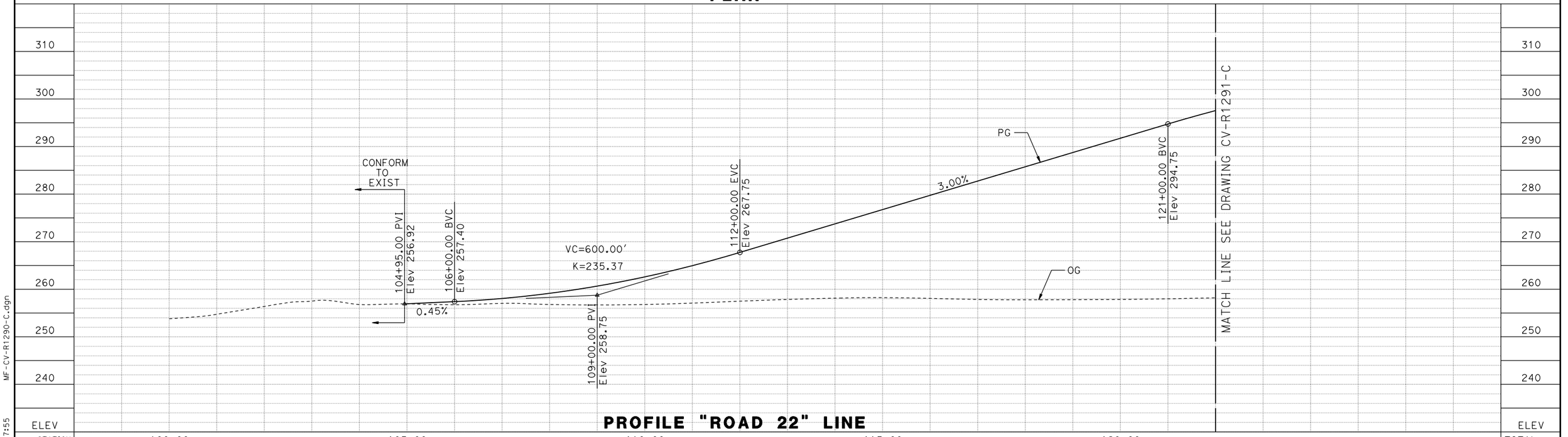
# MADERA COUNTY

NOTES:

1. ROAD 22 DESIGNED WITH 60 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0061-C.




## PLAN




## PROFILE "ROAD 22" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

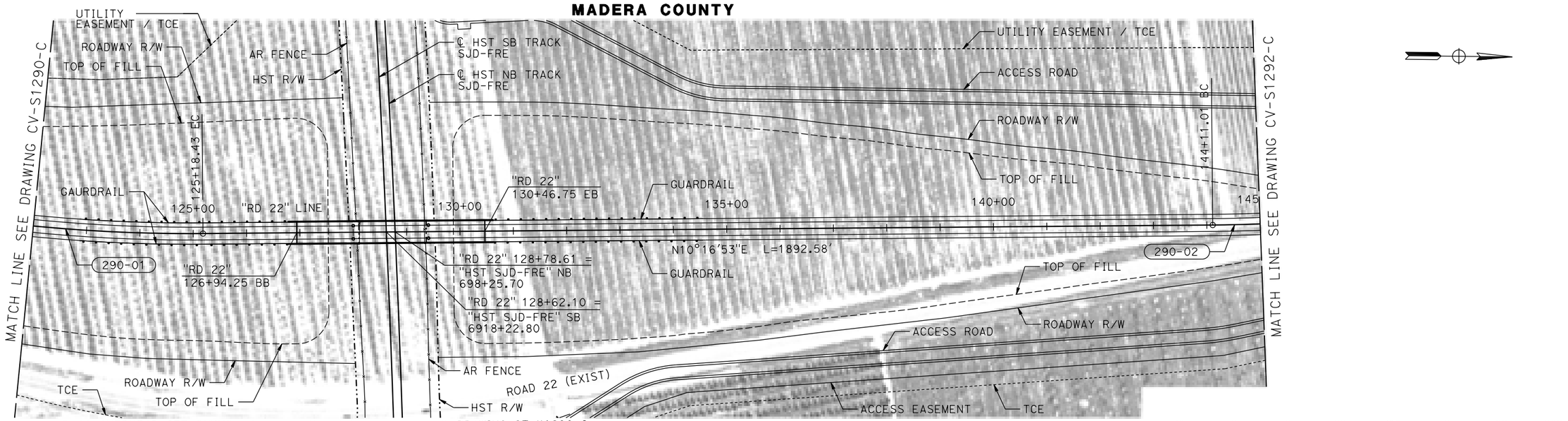
PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 22 GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1290-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1290-C.dgn
17-MAR-2016 7:55
p005133A



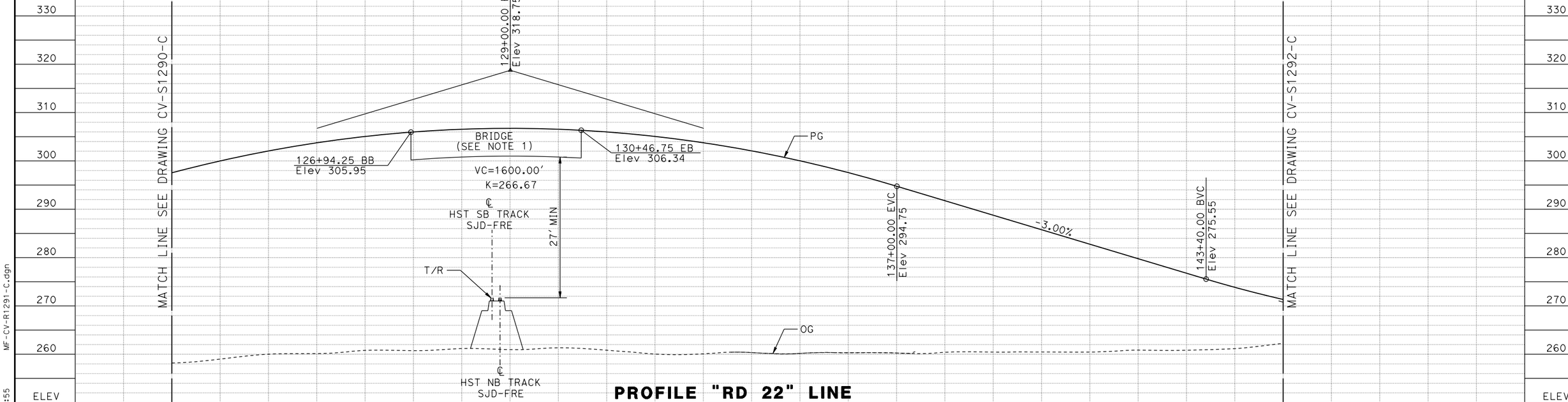

**NOTES:**

1. FOR DETAIL OF ROAD 22 OVERHEAD SEE STRUCTURE, VIADUCT AND TUNNEL PLANS DRAWING ST-K1290-C.
2. ROAD 22 DESIGNED WITH 60 MPH DESIGN SPEED.
3. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0061-C.

**PLAN**

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




**PROFILE "RD 22" LINE**

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

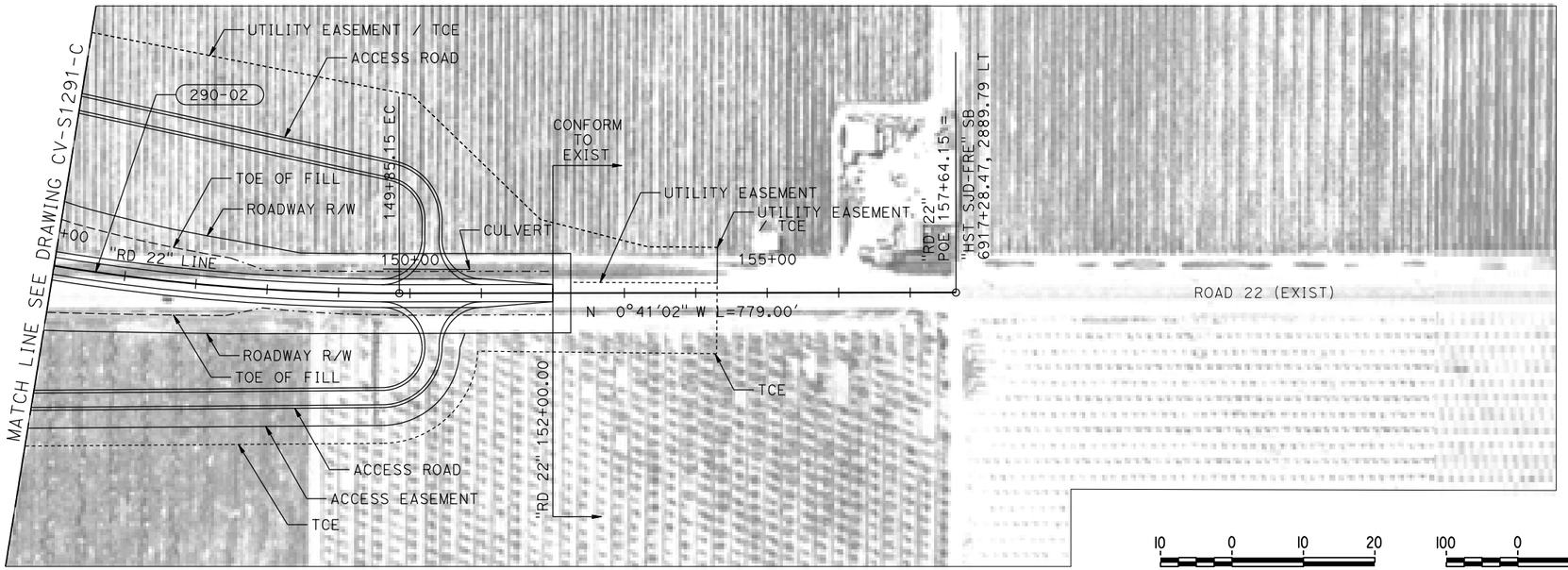
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 22 GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1291-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1291-C.dgn
17-MAR-2016 7:55
p0051133A

## MADERA COUNTY



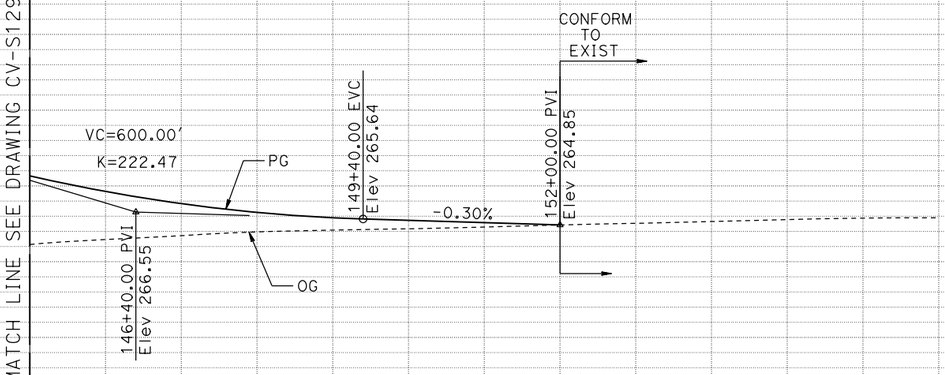

NOTES:

1. ROAD 22 DESIGNED WITH 60 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0061-C.

**PLAN**

10 0 10 20 — VERT: 1"=10'

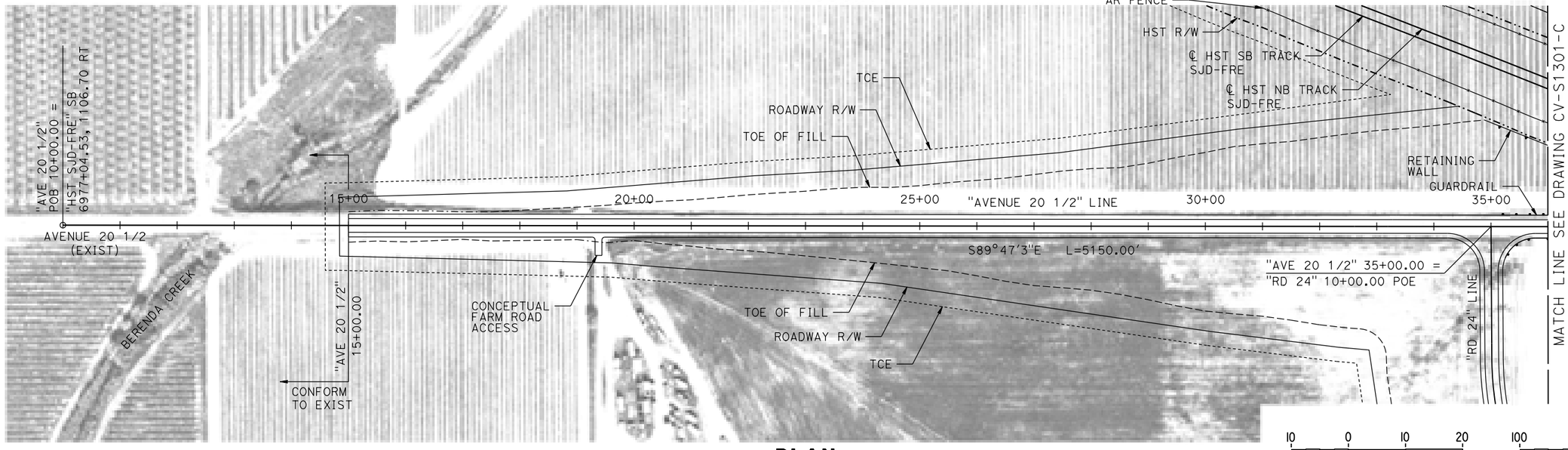
100 0 100 200 — HORIZ: 1"=100'




**PROFILE "RD 22" LINE**

| | | |

## MADERA COUNTY

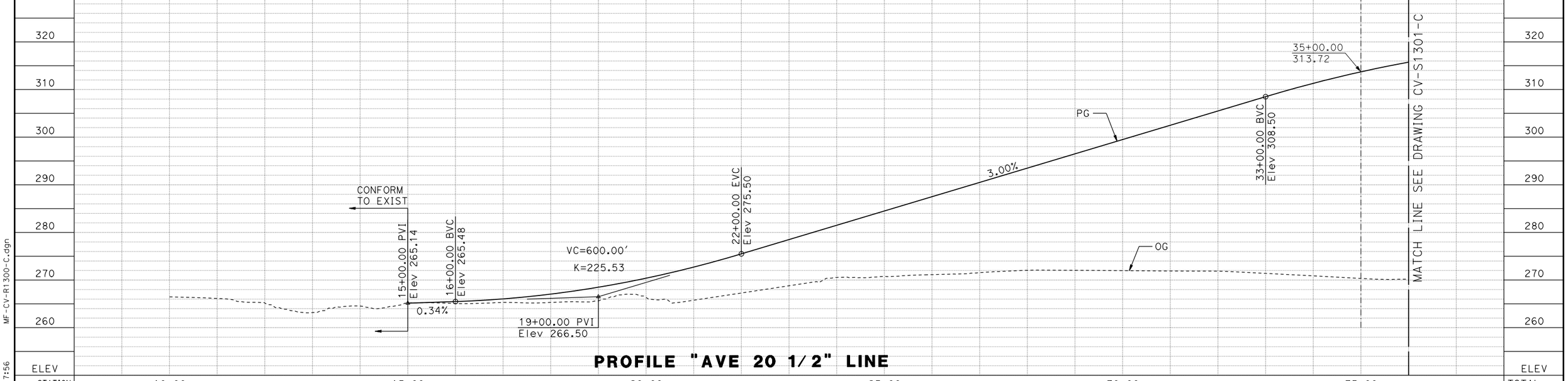



**PLAN**

VERT: 1"=10' (10 0 10 20)  HORIZ: 1"=100' (100 0 100 200)

NOTES:

1. AVENUE 20 1/2 DESIGNED WITH 60 MPH DESIGN SPEED.




**PROFILE "AVE 20 1/2" LINE**

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: J. RAY
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

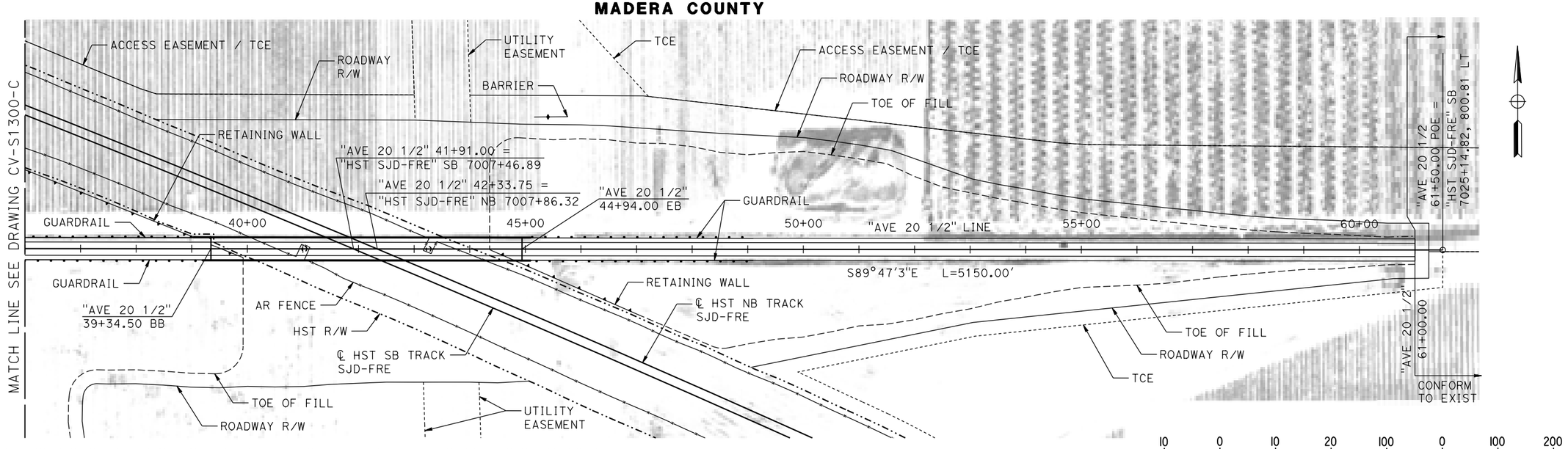
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
AVENUE 20½ GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1300-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1300-C.dgn
17-MAR-2016 7:56
p0051334

## MADERA COUNTY

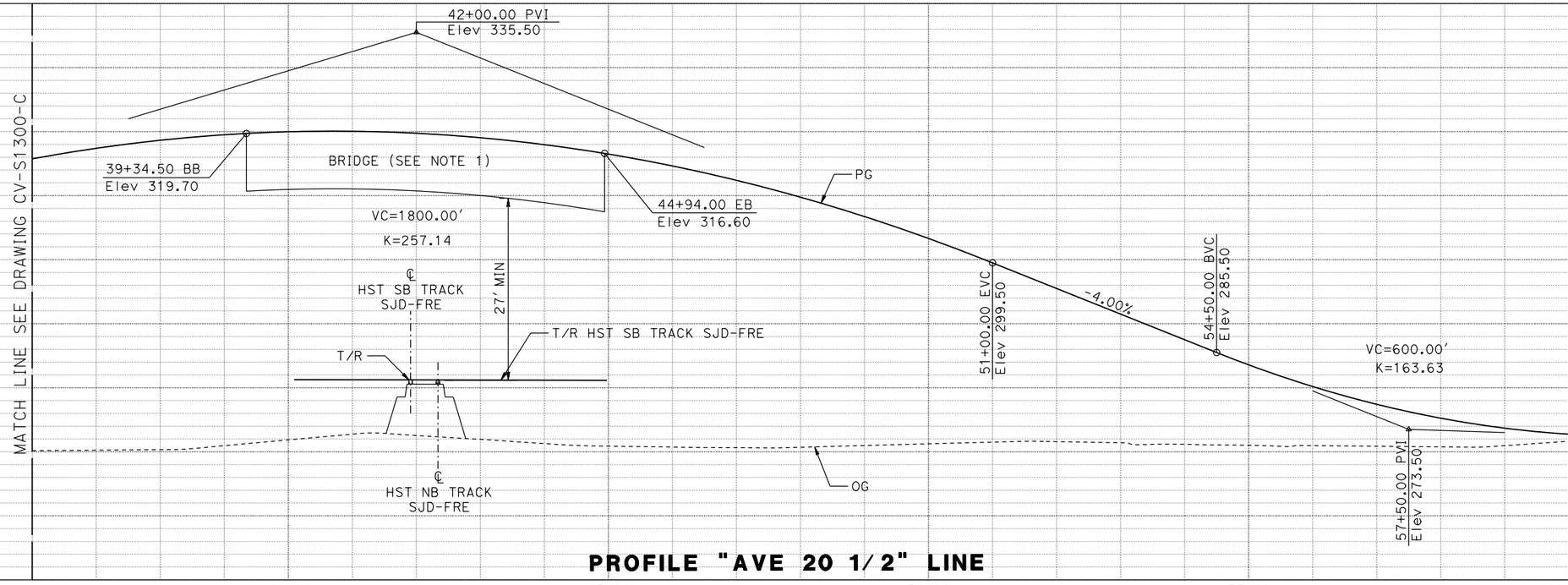



NOTES:

1. FOR DETAIL OF AVENUE 20 1/2 OVERHEAD SEE STRUCTURE, VIADUCT AND TUNNEL PLANS DRAWING ST-K1300-C.
2. AVENUE 20 1/2 DESIGNED WITH 60 MPH DESIGN SPEED.

## PLAN

VERT: 1"=10'  HORIZ: 1"=100'




## PROFILE "AVE 20 1/2" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: J. RAY
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

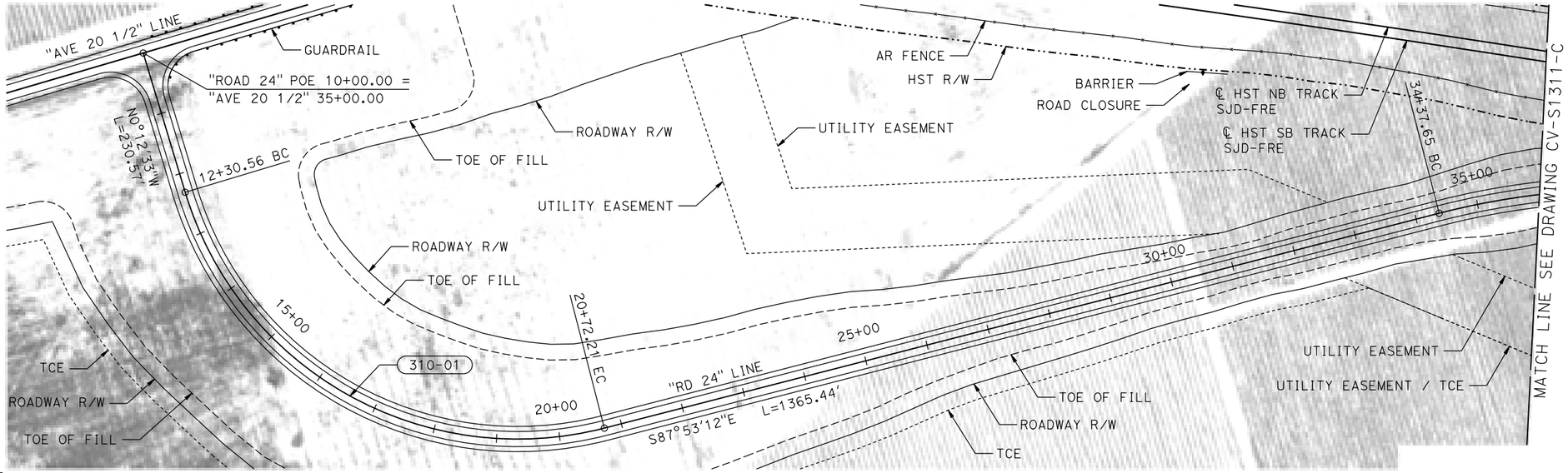
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
AVENUE 20½ GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1301-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1301-C.dgn
17-MAR-2016 7:56
p0051334

MADERA COUNTY

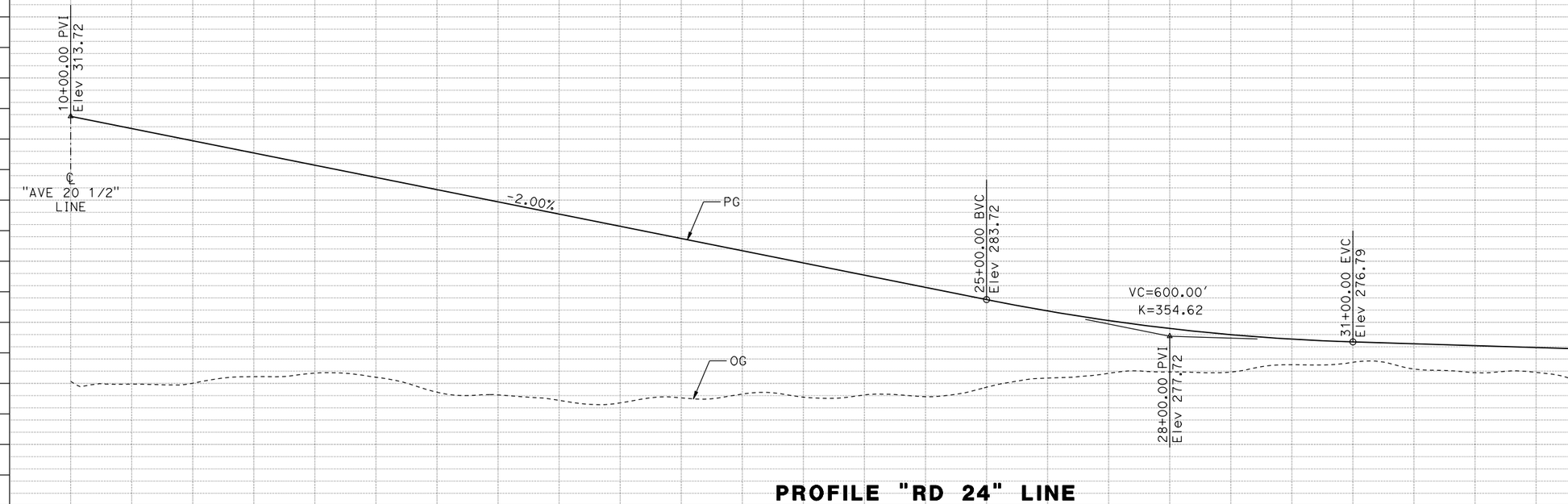



NOTES:

1. ROAD 24 DESIGNED WITH 35 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0061-C.

## PLAN

VERT: 1"=10'  HORIZ: 1"=100'




## PROFILE "RD 24" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

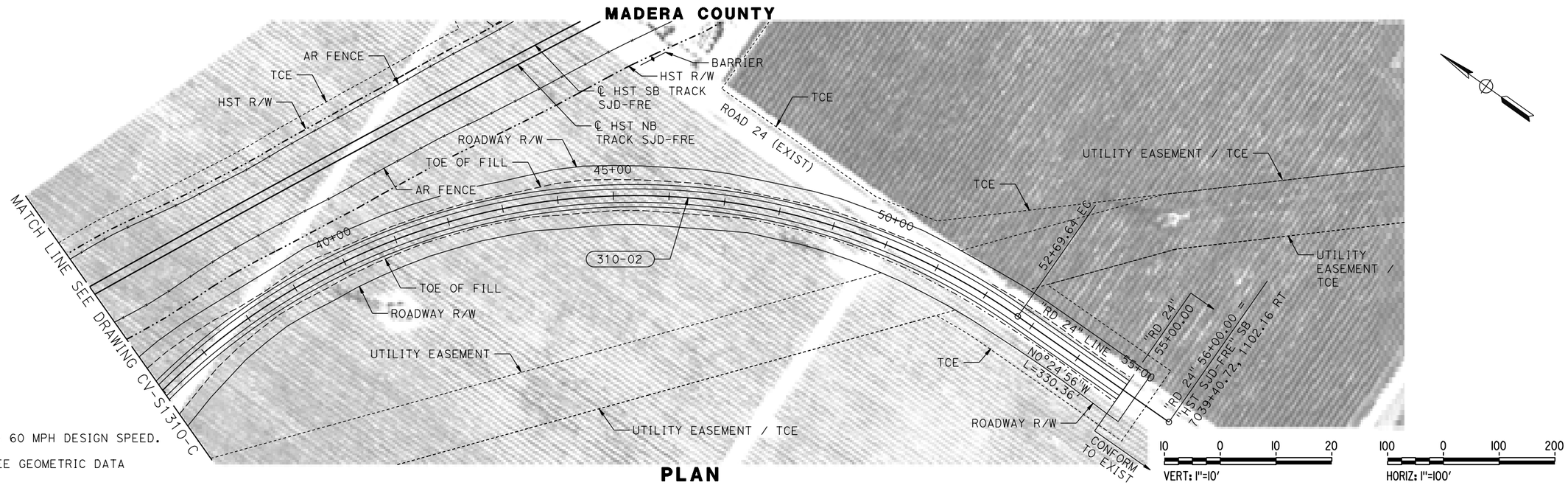
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 24 REALIGNMENT

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1310-C
SCALE AS SHOWN
SHEET NO.

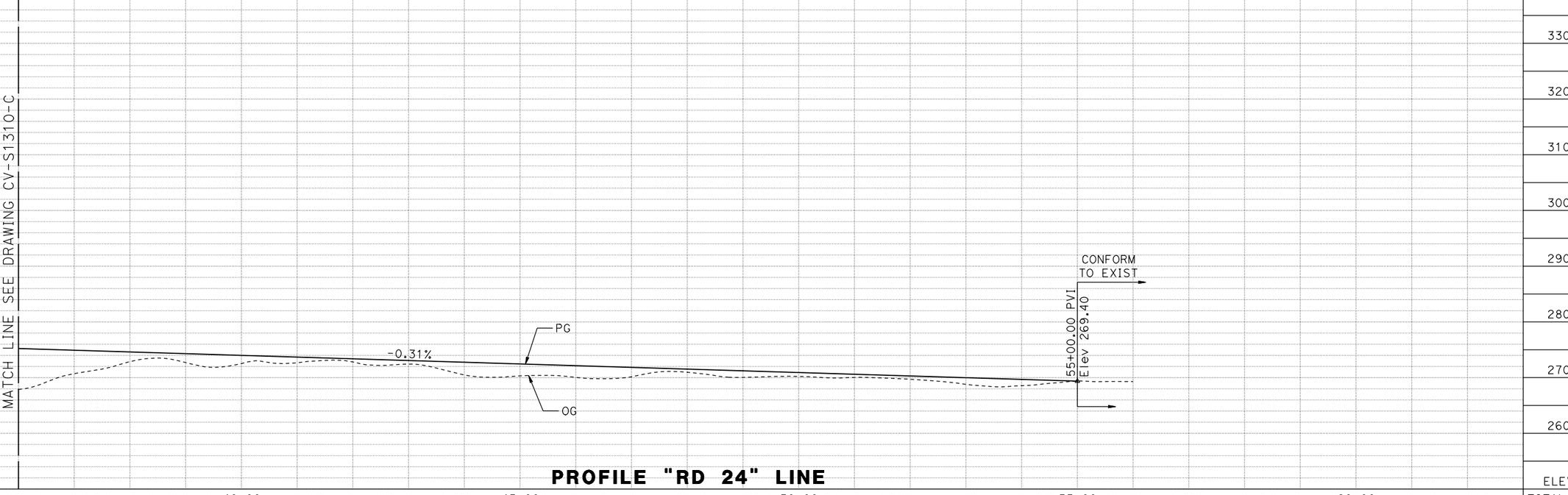
MF-CV-R1310-C.dgn
17-MAR-2016 7:57
p0051334




PLAN

NOTES:

1. ROAD 24 DESIGNED WITH 60 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0061-C.




PROFILE "RD 24" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

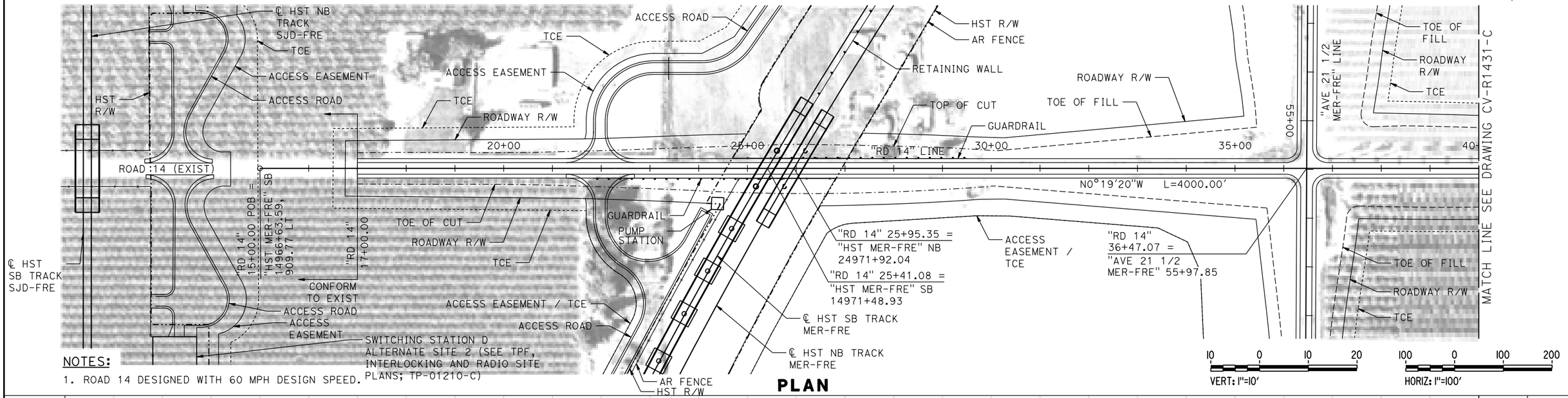
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 24 REALIGNMENT

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1311-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1311-C.dgn
17-MAR-2016 7:57
p0051133A

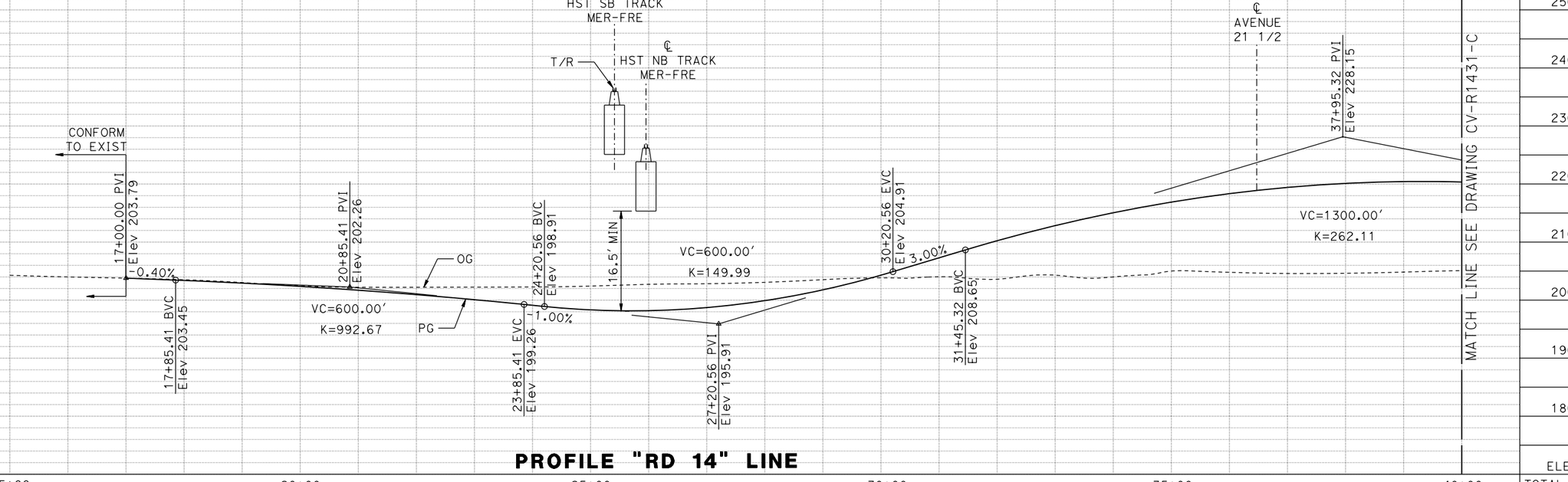
## MADERA COUNTY




**NOTES:**

1. ROAD 14 DESIGNED WITH 60 MPH DESIGN SPEED.

## PLAN




## PROFILE "RD 14" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY: A. GURA
DRAWN BY: M. TACTAY
CHECKED BY: J. RAY
IN CHARGE: C. LEMLEY
DATE: 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

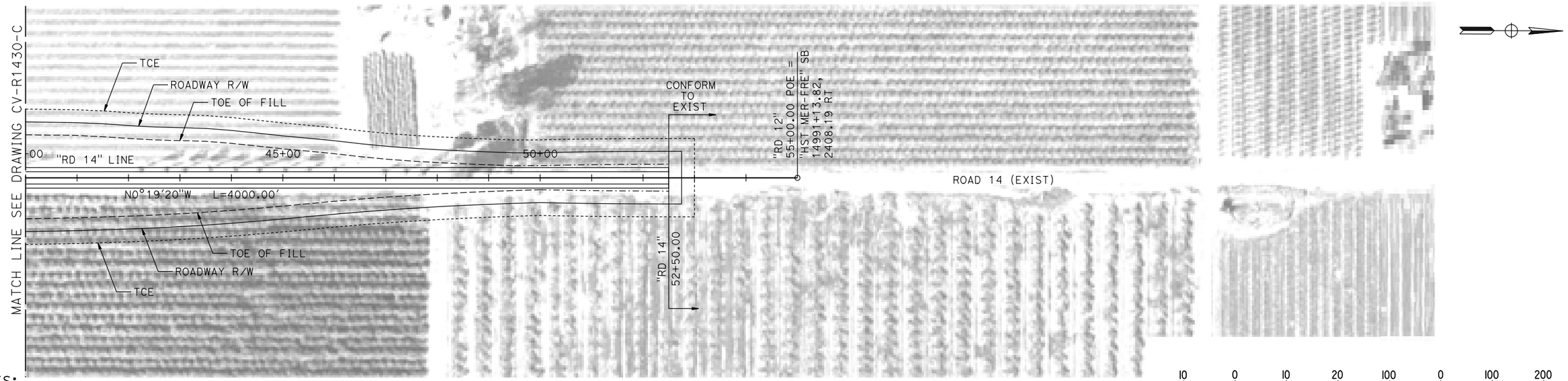
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 14 GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1430-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1430-C.dgn
17-MAR-2016 7:58
p0051133A

## MADERA COUNTY



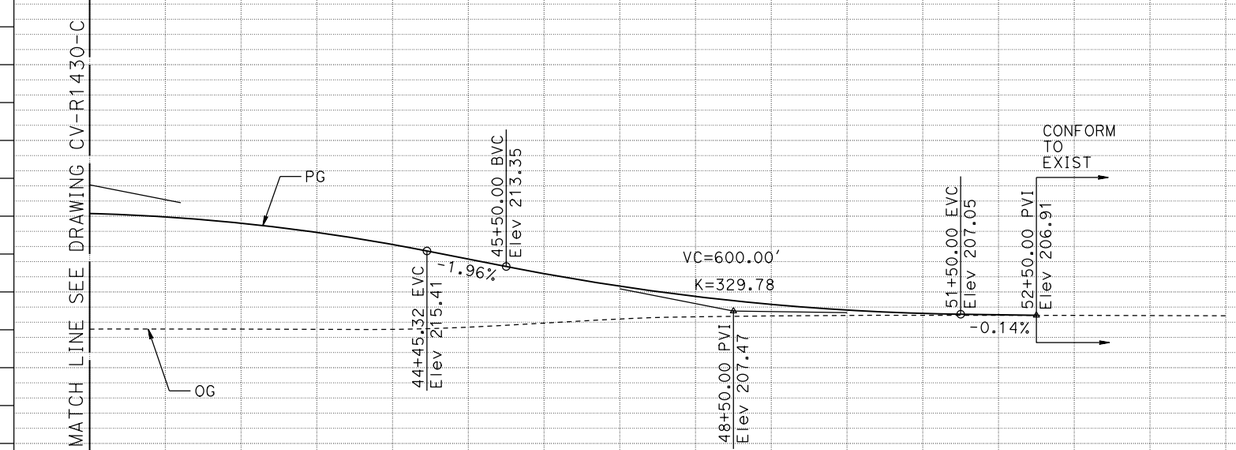

NOTES:

1. ROAD 14 DESIGNED WITH 60 MPH DESIGN SPEED.

**PLAN**

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




**PROFILE "RD 14" LINE**

| STATION | | 40+00 | 45+00 | 50+00 | 55+00 | TOTAL |
|---|---|---|---|---|---|---|
| CY | EXC | | | | | |
| | EMB | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

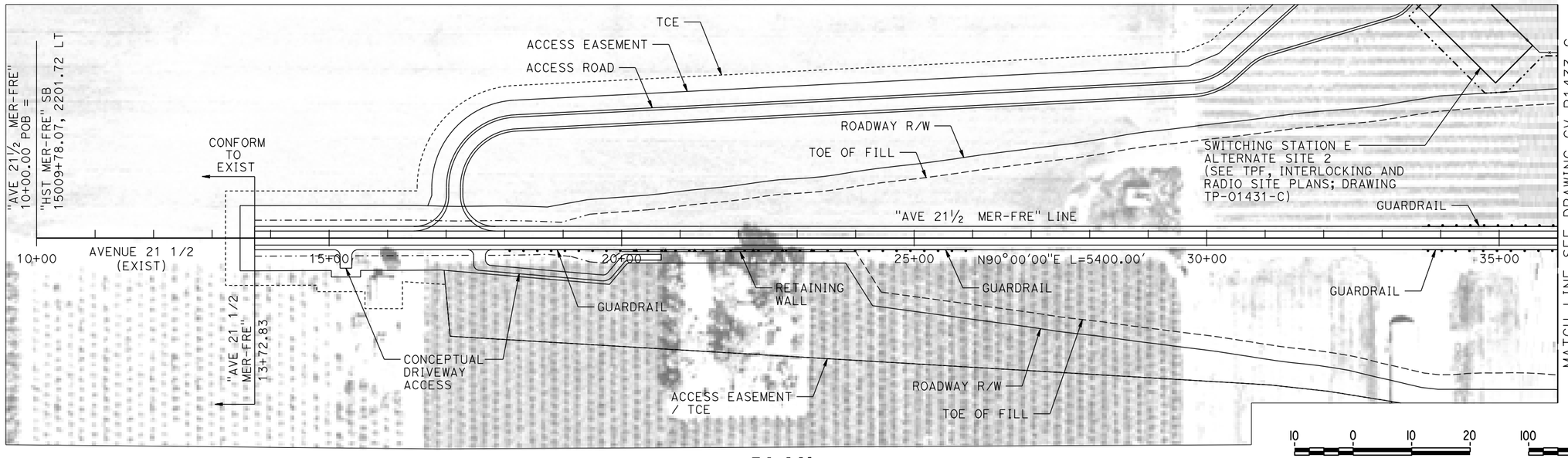
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 14 GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1431-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1431-C.dgn
17-MAR-2016 7:58
p0051133A

## MADERA COUNTY



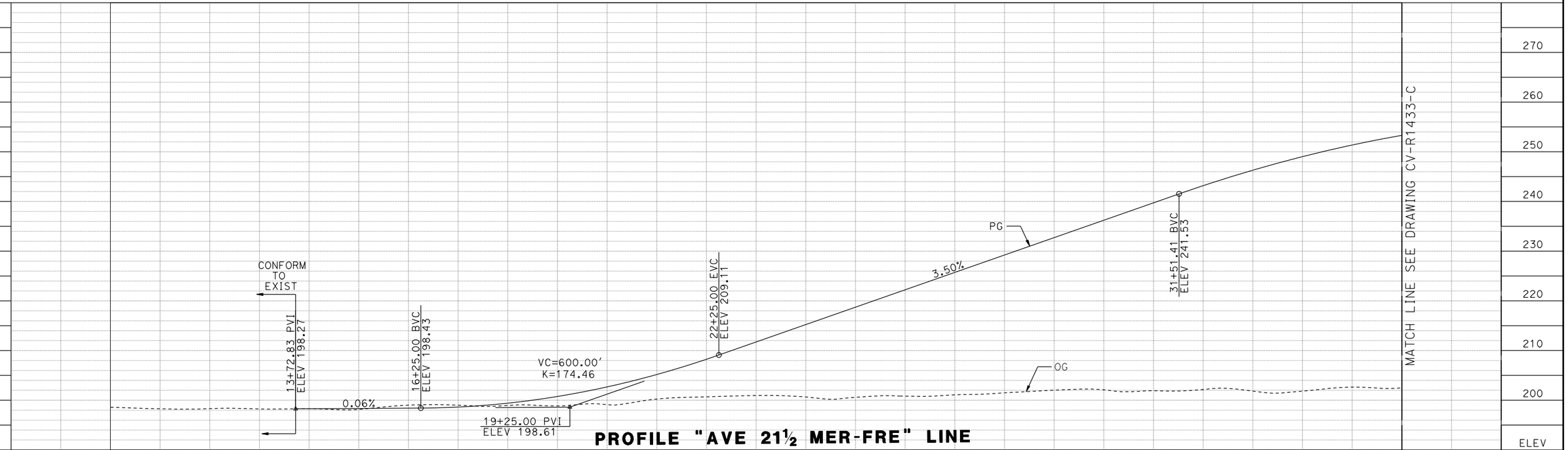

NOTES:

1. AVENUE 21 1/2 DESIGNED WITH 60 MPH DESIGN SPEED.

**PLAN**

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




**PROFILE "AVE 21½ MER-FRE" LINE**

| STATION | 10+00 | 15+00 | 20+00 | 25+00 | 30+00 | 35+00 | TOTAL |
|---|---|---|---|---|---|---|---|
| CY EXC | | | | | | | |
| CY EMB | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

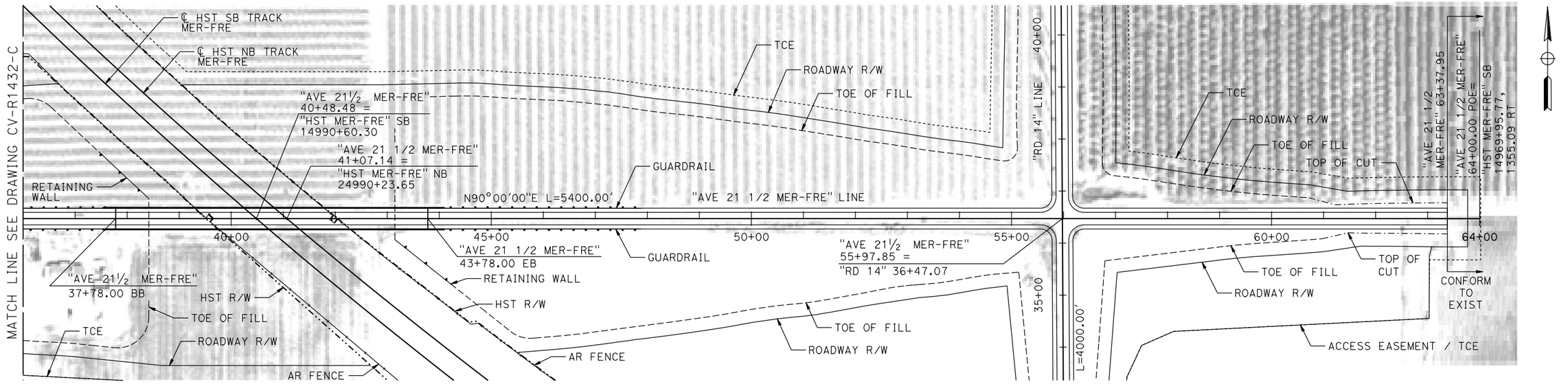
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
AVENUE 21½ MER-FRE GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1432-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1432-C.dgn
17-MAR-2016 7:59
p0051133A

## MADERA COUNTY

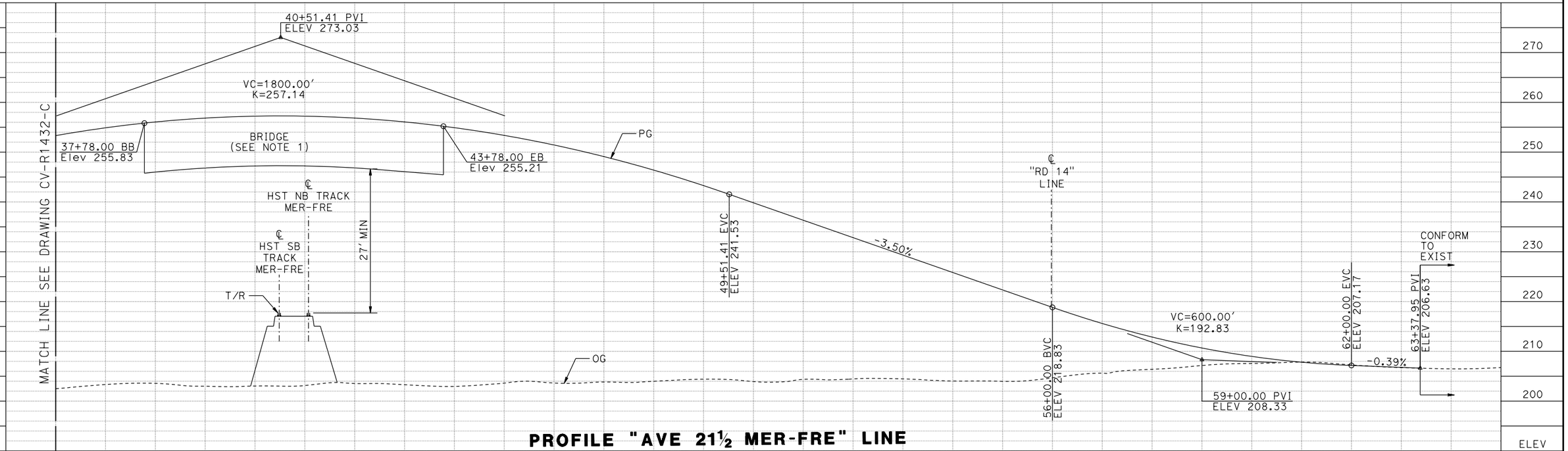



NOTES:

1. FOR DETAIL OF AVENUE 21 1/2 OVERHEAD SEE STRUCTURE, VIADUCT AND TUNNEL PLANS DRAWING ST-K1435-C
2. AVENUE 21 1/2 DESIGNED WITH 60 MPH DESIGN SPEED.

VERT: 1"=10' (10 0 10 20)  HORIZ: 1"=100' (100 0 100 200)

## PLAN




## PROFILE "AVE 21½ MER-FRE" LINE

| STATION | | 36+00 | 40+00 | 45+00 | 50+00 | 55+00 | 60+00 | TOTAL |
|---|---|---|---|---|---|---|---|---|
| CY | EXC | | | | | | | |
| | EMB | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

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

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

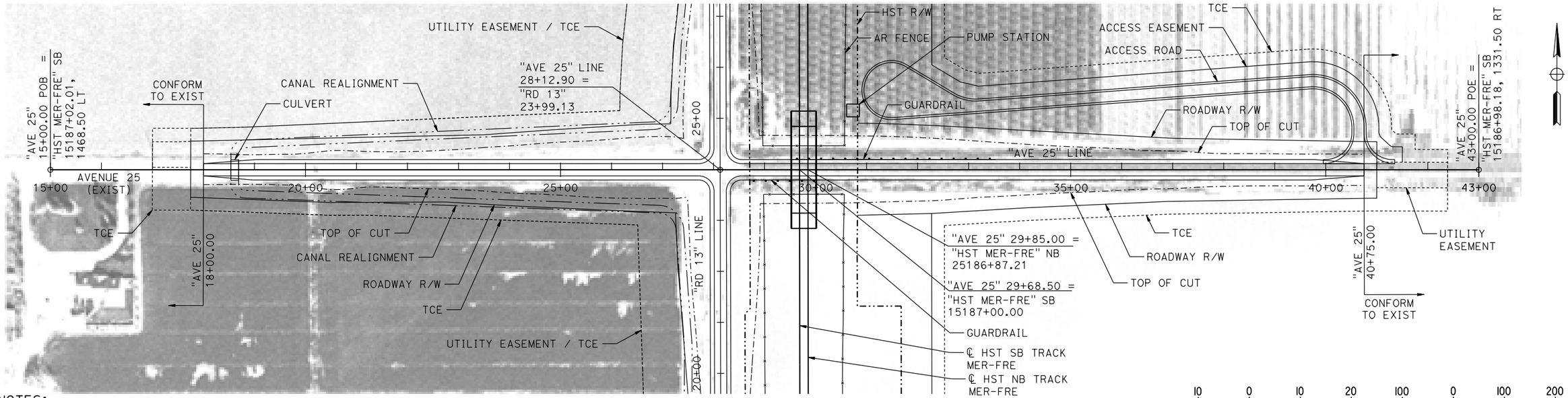
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
AVENUE 21½ MER-FRE GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1433-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1433-C.dgn
17-MAR-2016 7:59
p0051133A

MADERA COUNTY



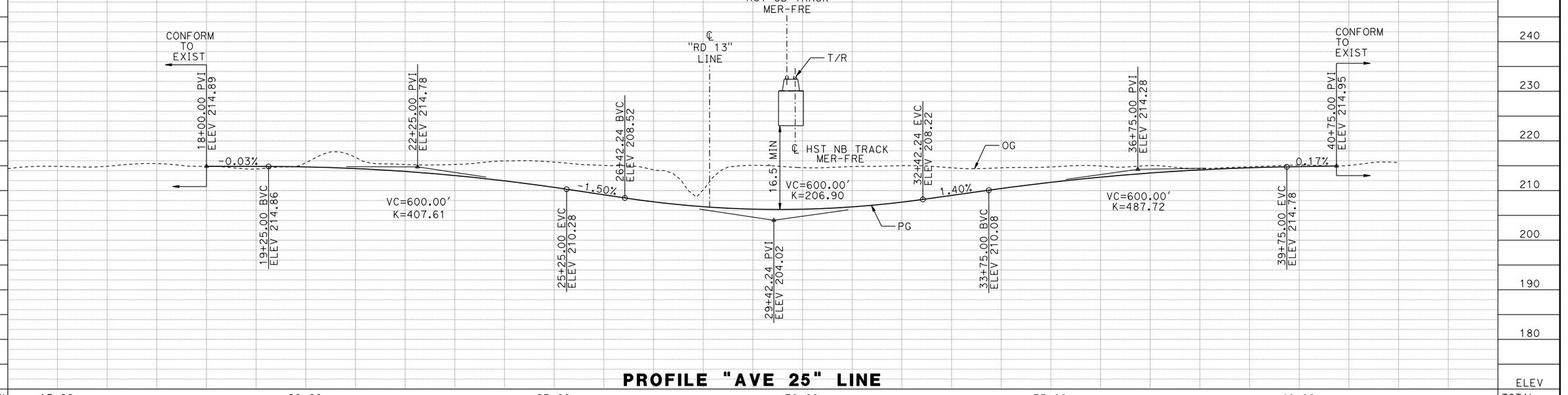

NOTES:

1. AVENUE 25 DESIGNED WITH 60 MPH DESIGN SPEED.

PLAN

VERT: 1"=10'

HORIZ: 1"=100'




PROFILE "AVE 25" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

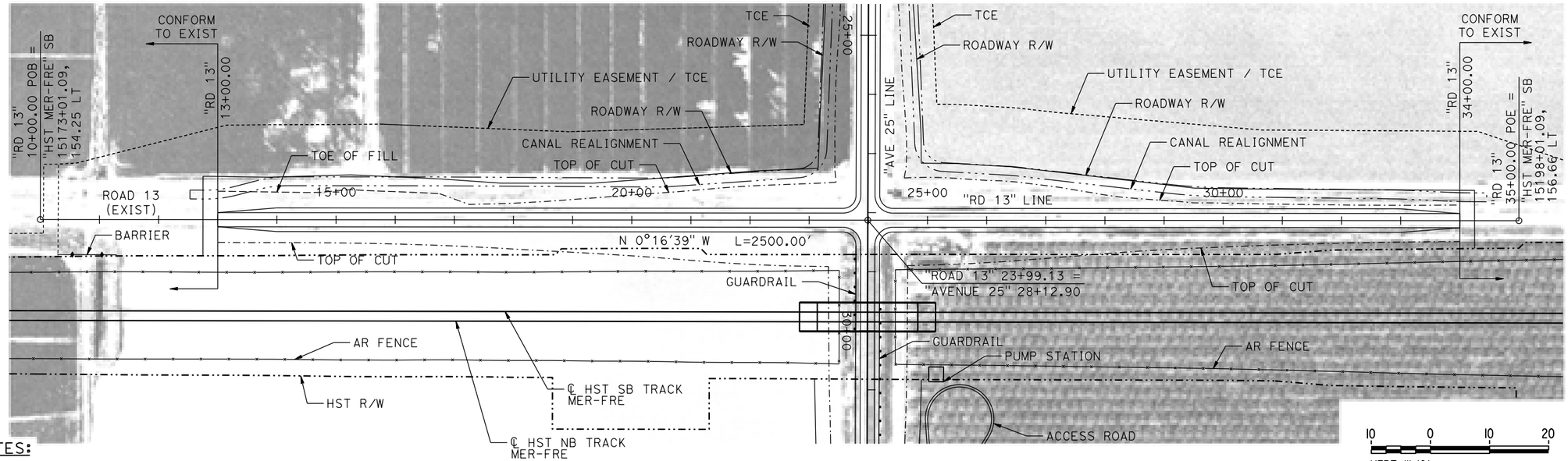
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
AVENUE 25/ WASHINGTON ROAD UNDERPASS

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1470-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1470-C.dgn
17-MAR-2016 8:00
p0051133A

## MADERA COUNTY



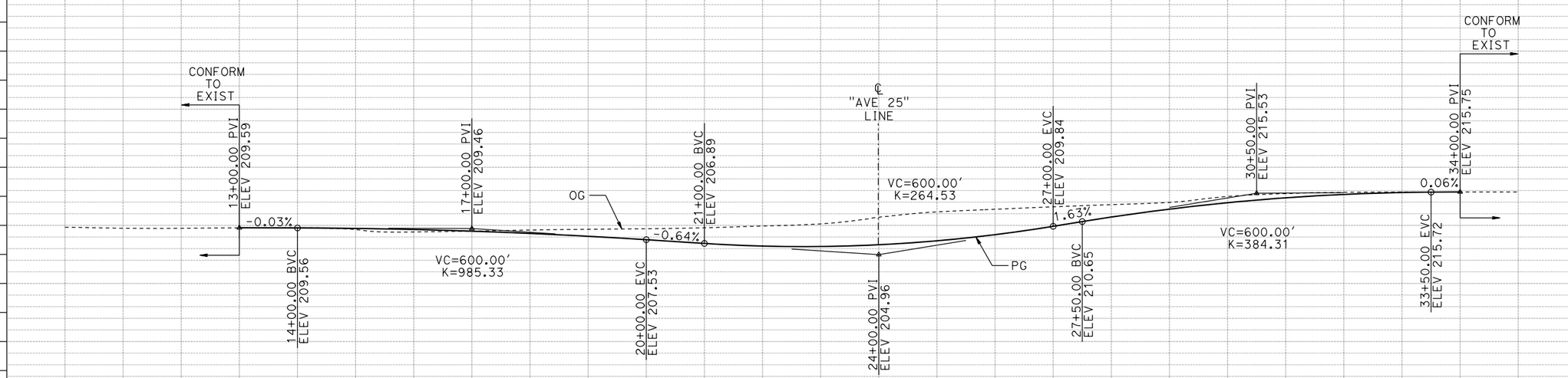

NOTES:

1. ROAD 13 DESIGNED WITH 60 MPH DESIGN SPEED.

VERT: 1"=10' (10 0 10 20)

HORIZ: 1"=100' (100 0 100 200)

## PLAN




## PROFILE "RD 13" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

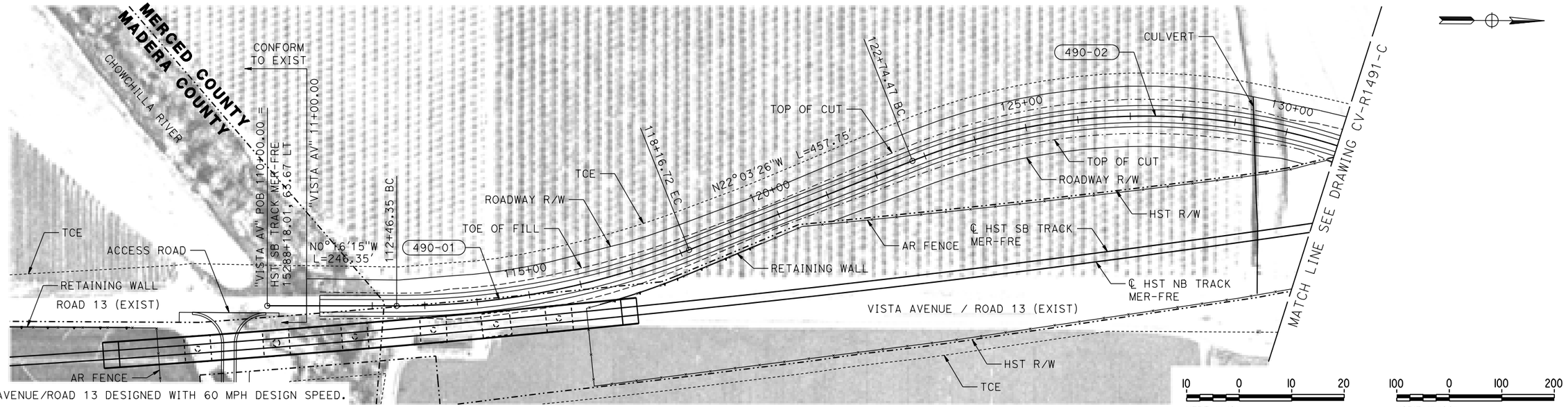
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 13 REALIGNMENT

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1471-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1471-C.dgn
17-MAR-2016 8:00
p0051334

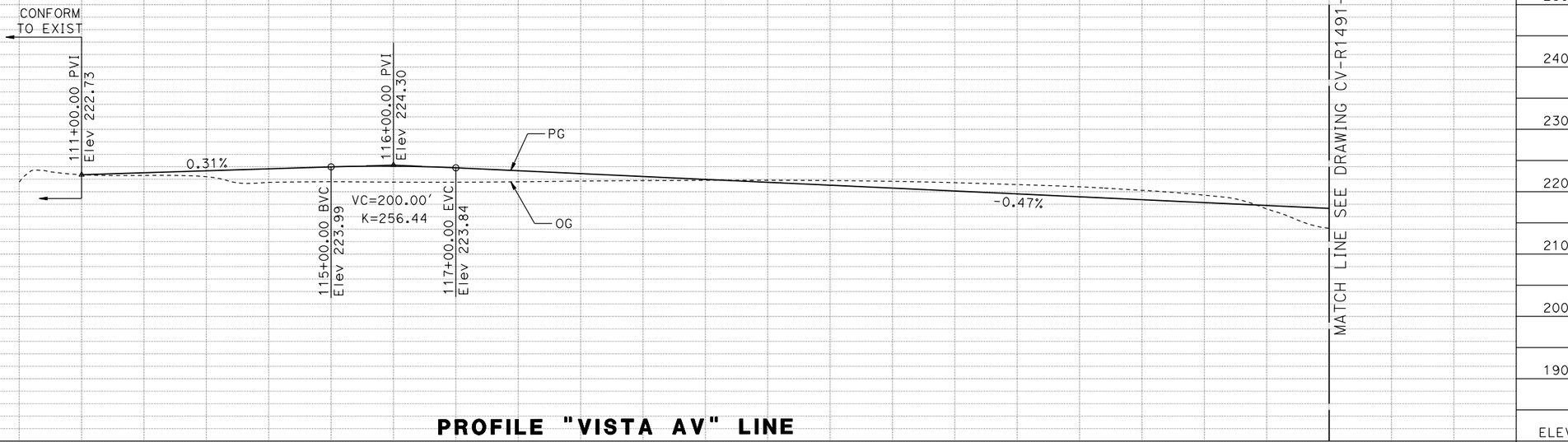
## MERCED COUNTY




NOTES:

1. VISTA AVENUE/ROAD 13 DESIGNED WITH 60 MPH DESIGN SPEED.
2. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0062-C.

## PLAN




## PROFILE "VISTA AV" LINE

| | | 110+00 | 115+00 | 120+00 | 125+00 | 130+00 | TOTAL |
|---|---|---|---|---|---|---|---|
| CY | EXC | | | | | | |
| | EMB | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

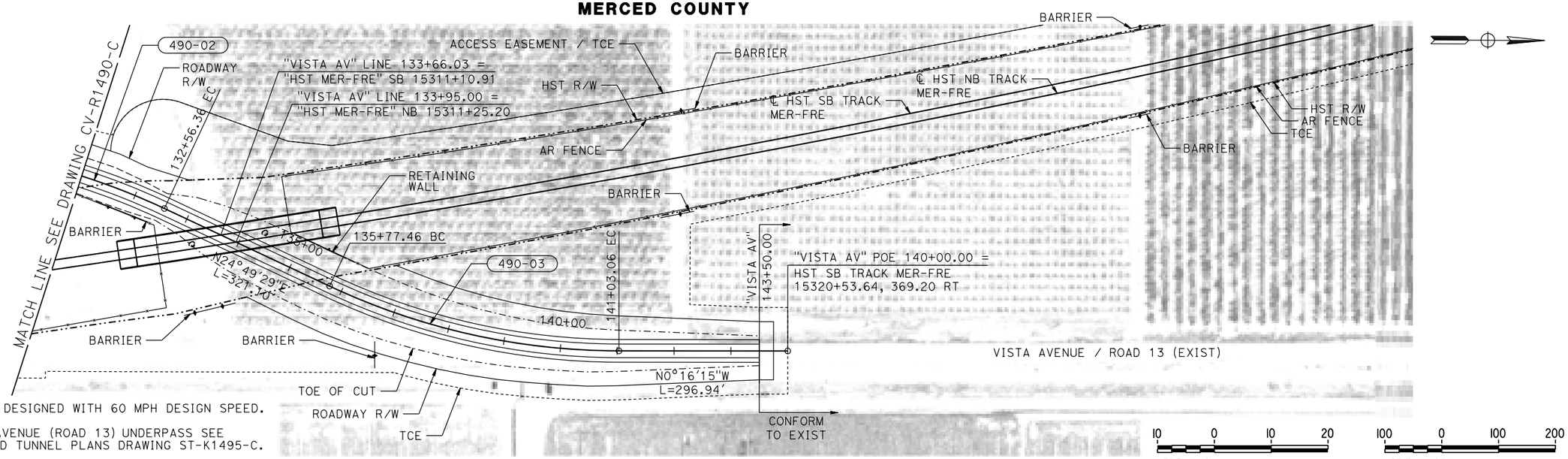
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
VISTA AVENUE/ROAD 13 REALIGNMENT

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1490-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1490-C.dgn
17-MAR-2016 8:01
p005133A

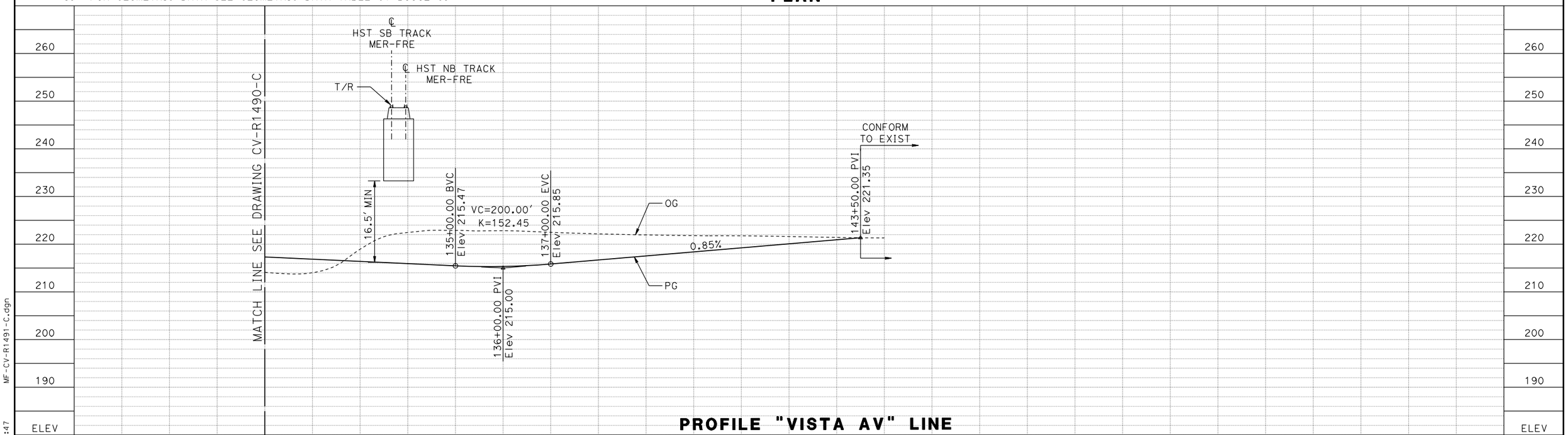
## MERCED COUNTY




### NOTES:

1. VISTA AVENUE/ROAD 13 DESIGNED WITH 60 MPH DESIGN SPEED.
2. FOR DETAIL OF VISTA AVENUE (ROAD 13) UNDERPASS SEE STRUCTURE, VIADUCT AND TUNNEL PLANS DRAWING ST-K1495-C.
3. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0062-C.

## PLAN




## PROFILE "VISTA AV" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

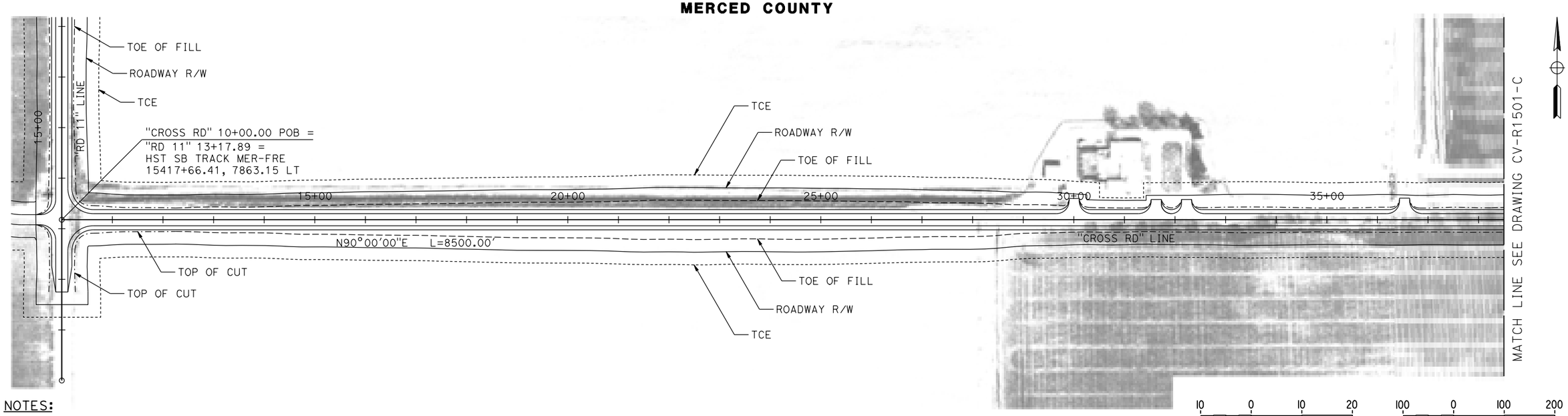
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
VISTA AVENUE/ROAD 13 REALIGNMENT

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1491-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1491-C.dgn
18-MAR-2016 3:47
p0051133A

## MERCED COUNTY



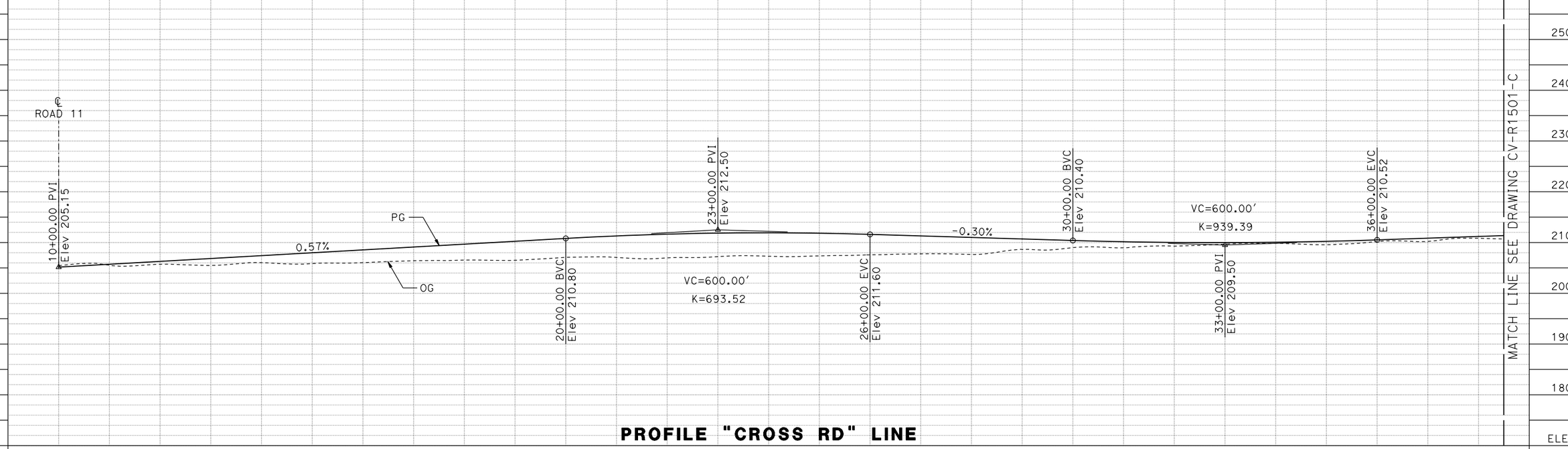

NOTES:

1. CROSS ROAD DESIGNED WITH 60 MPH DESIGN SPEED.

**PLAN**

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




**PROFILE "CROSS RD" LINE**

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY A. GURA
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

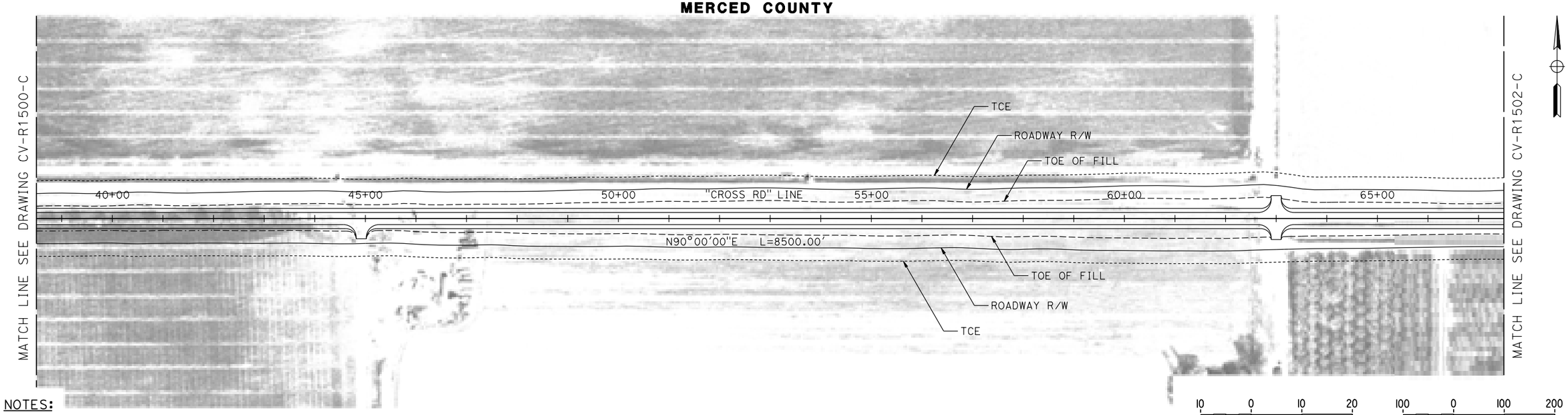
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
CROSS ROAD REALIGNMENT

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1500-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1500-C.dgn
17-MAR-2016 8:01
p0051133A

## MERCED COUNTY



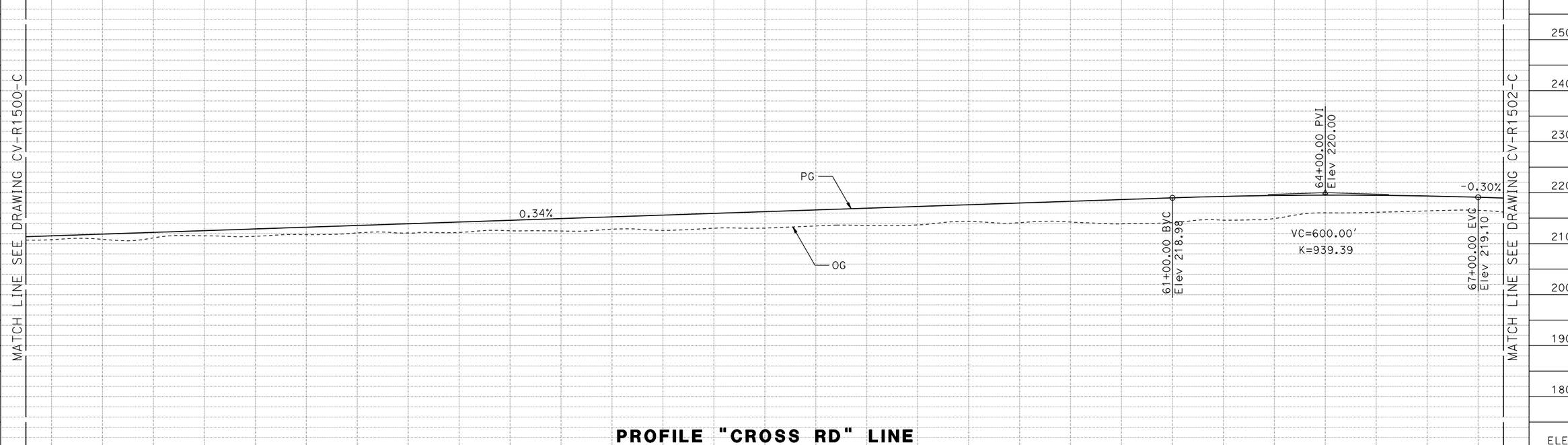

NOTES:

1. CROSS ROAD DESIGNED WITH 60 MPH DESIGN SPEED.

**PLAN**

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




**PROFILE "CROSS RD" LINE**

| STATION | | 40+00 | 45+00 | 50+00 | 55+00 | 60+00 | 65+00 | TOTAL |
|---|---|---|---|---|---|---|---|---|
| CY | EXC | | | | | | | |
| | EMB | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY A. GURA
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

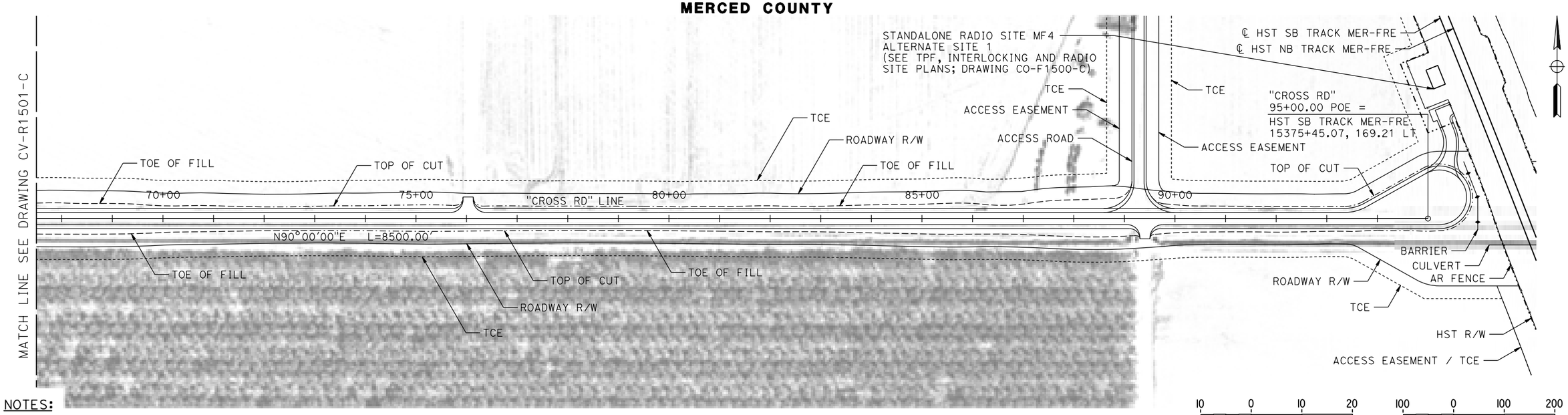
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
CROSS ROAD REALIGNMENT

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1501-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1501-C.dgn
17-MAR-2016 8:02
p0051133A

## MERCED COUNTY



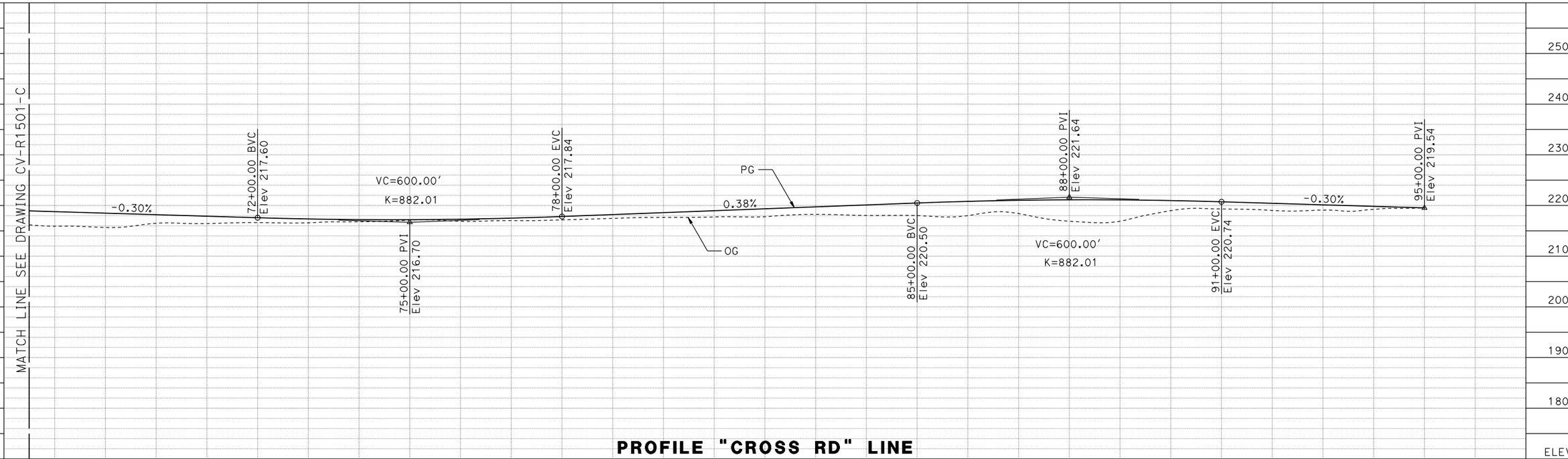

NOTES:

1. CROSS ROAD DESIGNED WITH 60 MPH DESIGN SPEED.

**PLAN**

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




**PROFILE "CROSS RD" LINE**

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY A. GURA
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

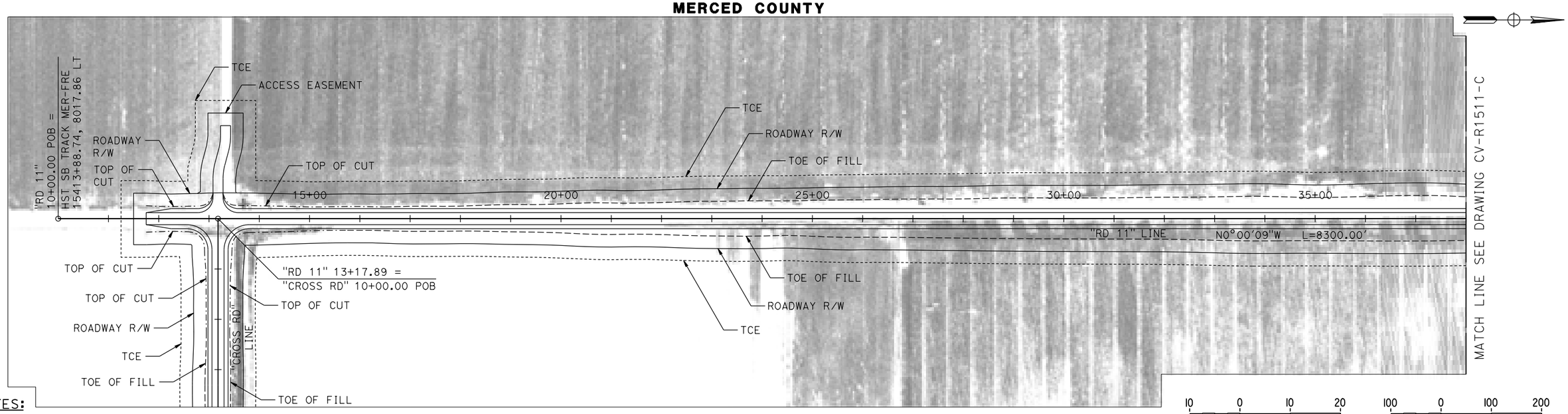
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
CROSS ROAD REALIGNMENT

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1502-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1502-C.dgn
17-MAR-2016 8:02
p0051133A

## MERCED COUNTY



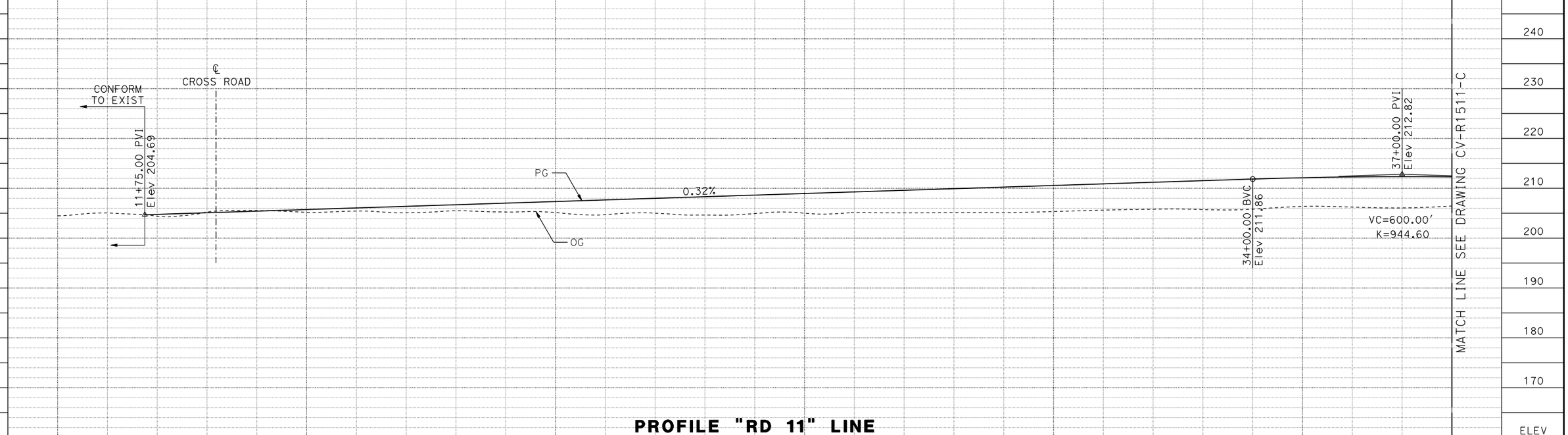

NOTES:

1. ROAD 11 DESIGNED WITH 60 MPH DESIGN SPEED.

**PLAN**

VERT: 1"=10' (10 0 10 20)

HORIZ: 1"=100' (100 0 100 200)




## PROFILE "RD 11" LINE

| STATION | | 10+00 | 15+00 | 20+00 | 25+00 | 30+00 | 35+00 | TOTAL |
|---|---|---|---|---|---|---|---|---|
| CY | EXC | | | | | | | |
| | EMB | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY A. GURA
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET 15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

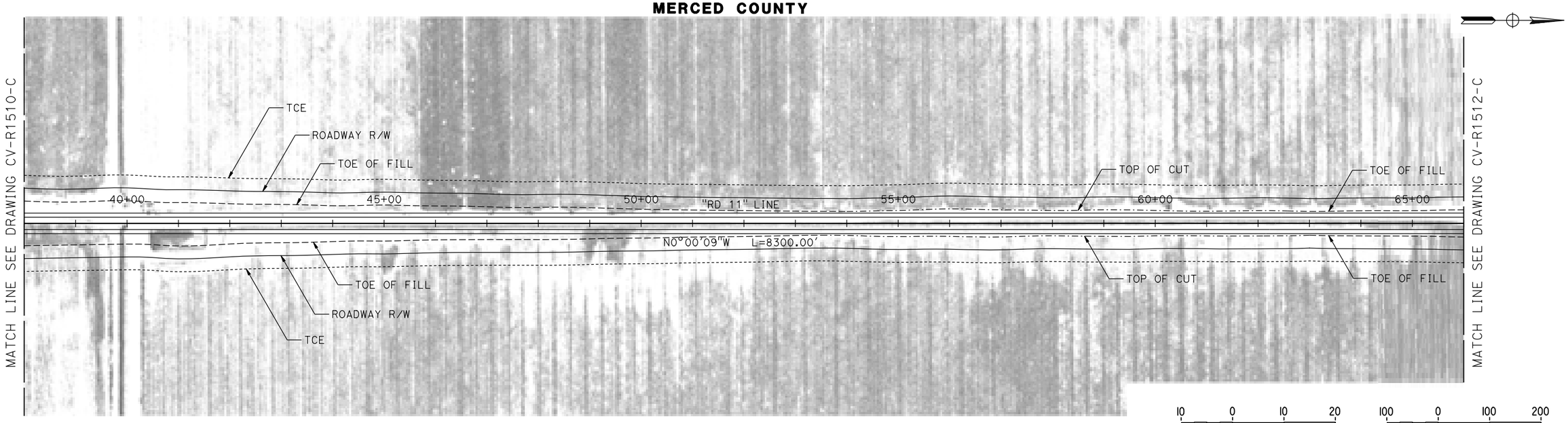
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 11 REALIGNMENT

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1510-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1510-C.dgn
17-MAR-2016 8:02
p0051133A

## MERCED COUNTY



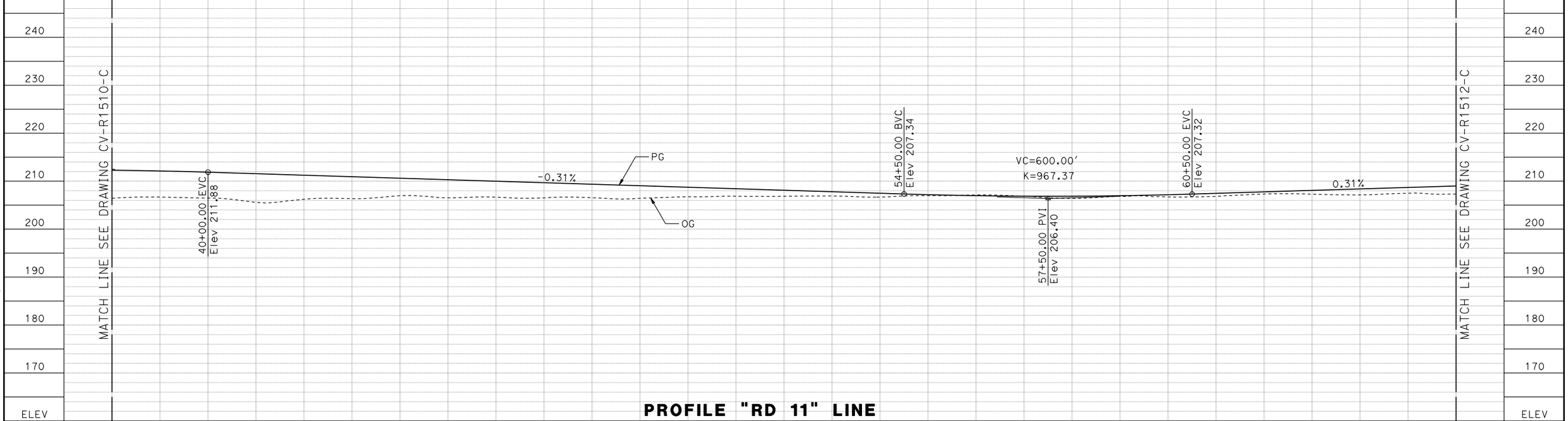

NOTES:

1. ROAD 11 DESIGNED WITH 60 MPH DESIGN SPEED.

**PLAN**

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




## PROFILE "RD 11" LINE

| STATION | | 40+00 | 45+00 | 50+00 | 55+00 | 60+00 | 65+00 | TOTAL |
|---|---|---|---|---|---|---|---|---|
| CY | EXC | | | | | | | |
| | EMB | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY A. GURA
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

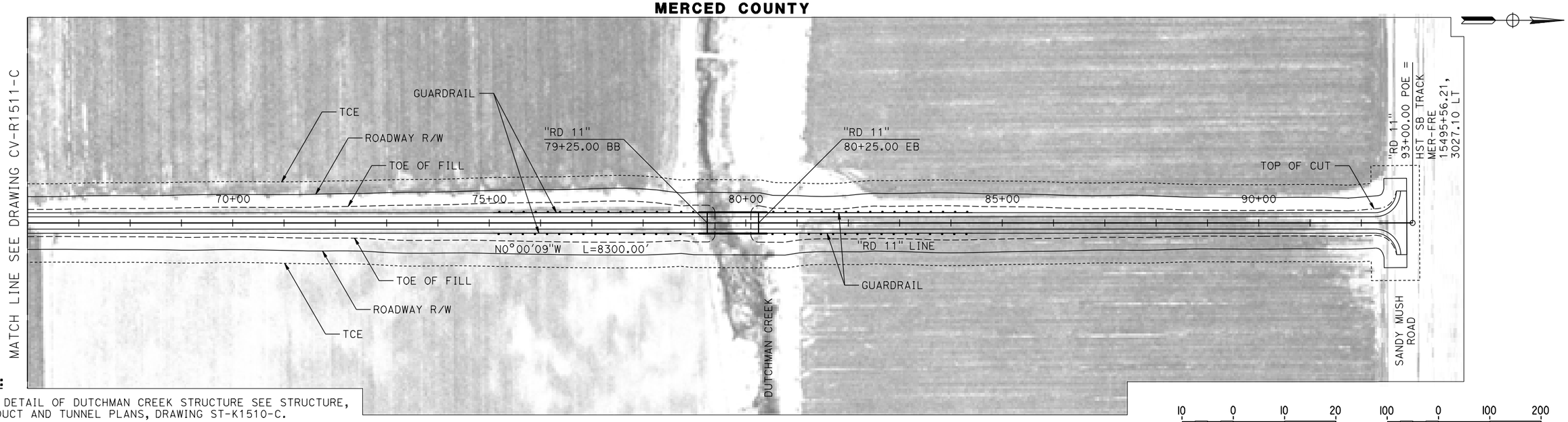
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 11 REALIGNMENT

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1511-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1511-C.dgn
17-MAR-2016 8:03
p0051133A

## MERCED COUNTY



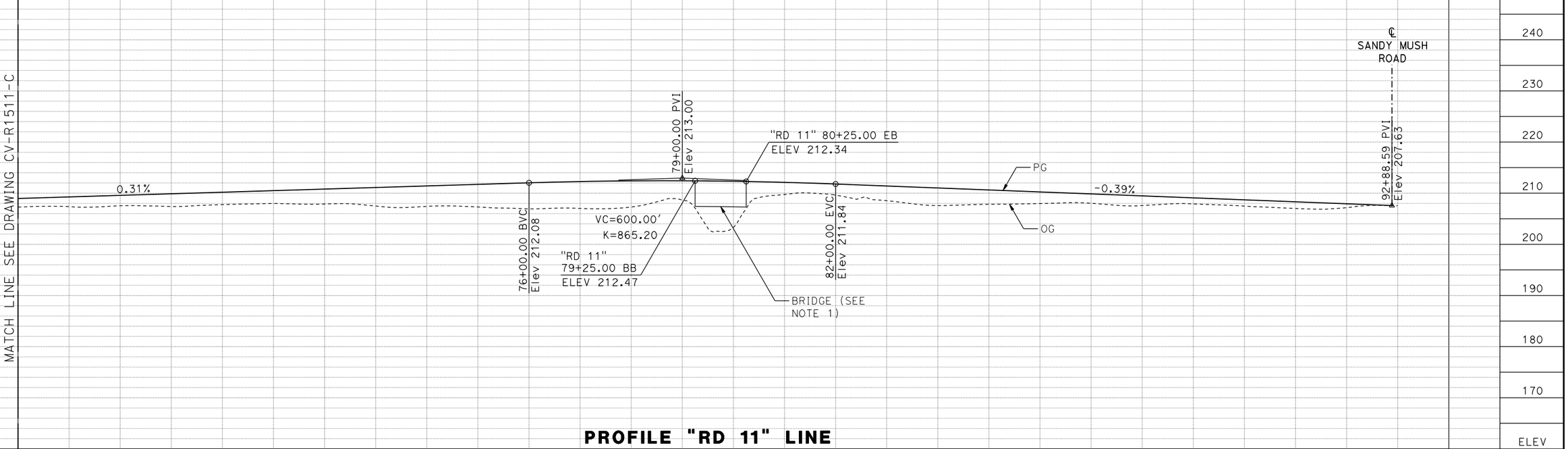

NOTES:

1. FOR DETAIL OF DUTCHMAN CREEK STRUCTURE SEE STRUCTURE, VIADUCT AND TUNNEL PLANS, DRAWING ST-K1510-C.
2. ROAD 11 DESIGNED WITH 60 MPH DESIGN SPEED.

**PLAN**

VERT: 1"=10' (10 0 10 20)

HORIZ: 1"=100' (100 0 100 200)




**PROFILE "RD 11" LINE**

| STATION | | 70+00 | 75+00 | 80+00 | 85+00 | 90+00 | TOTAL |
|---|---|---|---|---|---|---|---|
| CY | EXC | | | | | | |
| | EMB | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY A. GURA
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

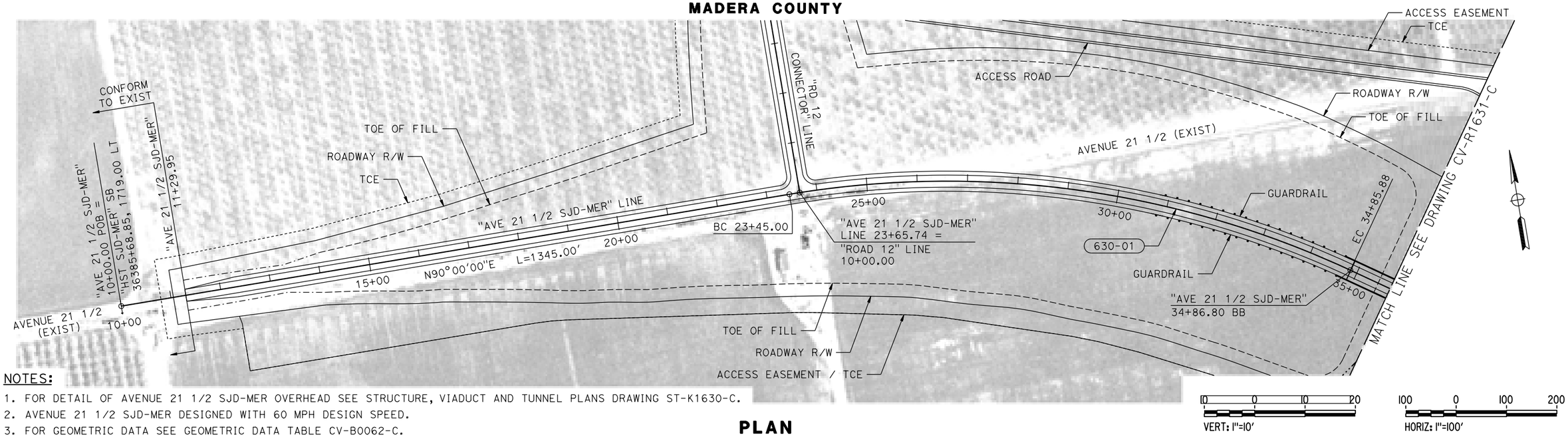
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 11 REALIGNMENT

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1512-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1512-C.dgn
17-MAR-2016 8:03
p0051133A

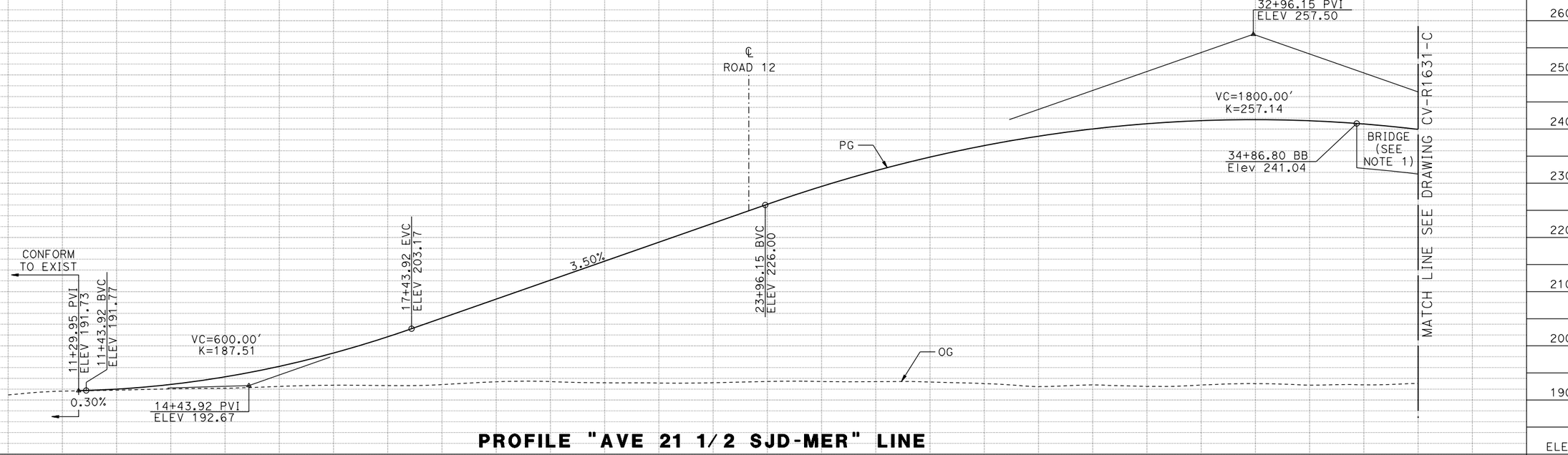



NOTES:

1. FOR DETAIL OF AVENUE 21 1/2 SJD-MER OVERHEAD SEE STRUCTURE, VIADUCT AND TUNNEL PLANS DRAWING ST-K1630-C.
2. AVENUE 21 1/2 SJD-MER DESIGNED WITH 60 MPH DESIGN SPEED.
3. FOR GEOMETRIC DATA SEE GEOMETRIC DATA TABLE CV-B0062-C.

VERT: 1"=10'  HORIZ: 1"=100'

## PLAN




## PROFILE "AVE 21 1/2 SJD-MER" LINE

| | | 10+00 | 15+00 | 20+00 | 25+00 | 30+00 | 35+00 | 36+00 | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| STATION | | | | | | | | | |
| CY | EXC | | | | | | | | |
| | EMB | | | | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

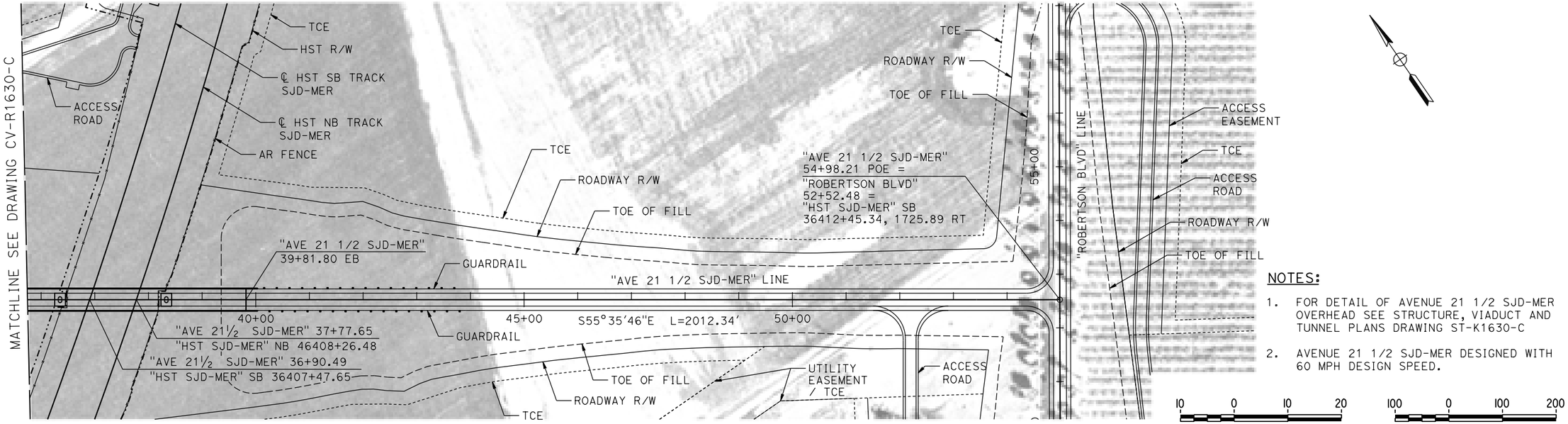
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
AVENUE 21½ SJD-MER GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1630-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1630-C.dgn
17-MAR-2016 8:03
p0051133A

## MADERA COUNTY



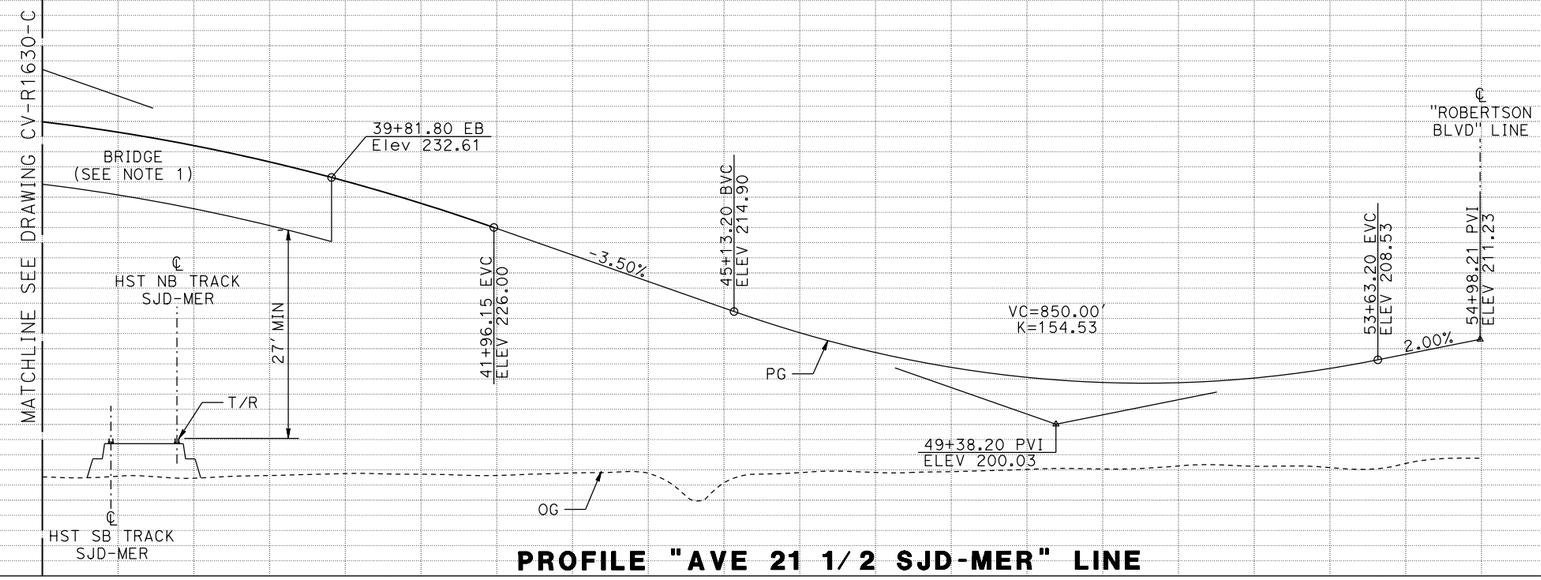

## PLAN

### NOTES:

1. FOR DETAIL OF AVENUE 21 1/2 SJD-MER OVERHEAD SEE STRUCTURE, VIADUCT AND TUNNEL PLANS DRAWING ST-K1630-C
2. AVENUE 21 1/2 SJD-MER DESIGNED WITH 60 MPH DESIGN SPEED.

10 0 10 20 — VERT: 1"=10'

100 0 100 200 — HORIZ: 1"=100'




## PROFILE "AVE 21 1/2 SJD-MER" LINE

| STATION | | 35+00 | 40+00 | 45+00 | 50+00 | TOTAL |
|---|---|---|---|---|---|---|
| CY | EXC | | | | | |
| | EMB | | | | | |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

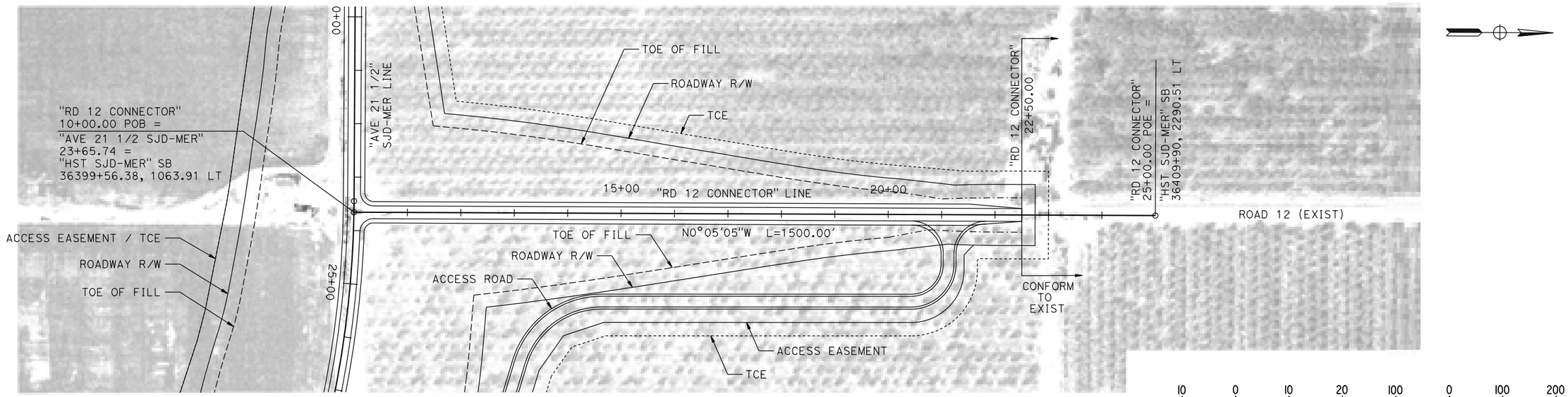
# CALIFORNIA HIGH-SPEED TRAIN PROJECT
## MERCED TO FRESNO SECTION

CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
AVENUE 21½ SJD-MER GRADE SEPARATION

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1631-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1631-C.dgn
17-MAR-2016 8:06
p0051133A

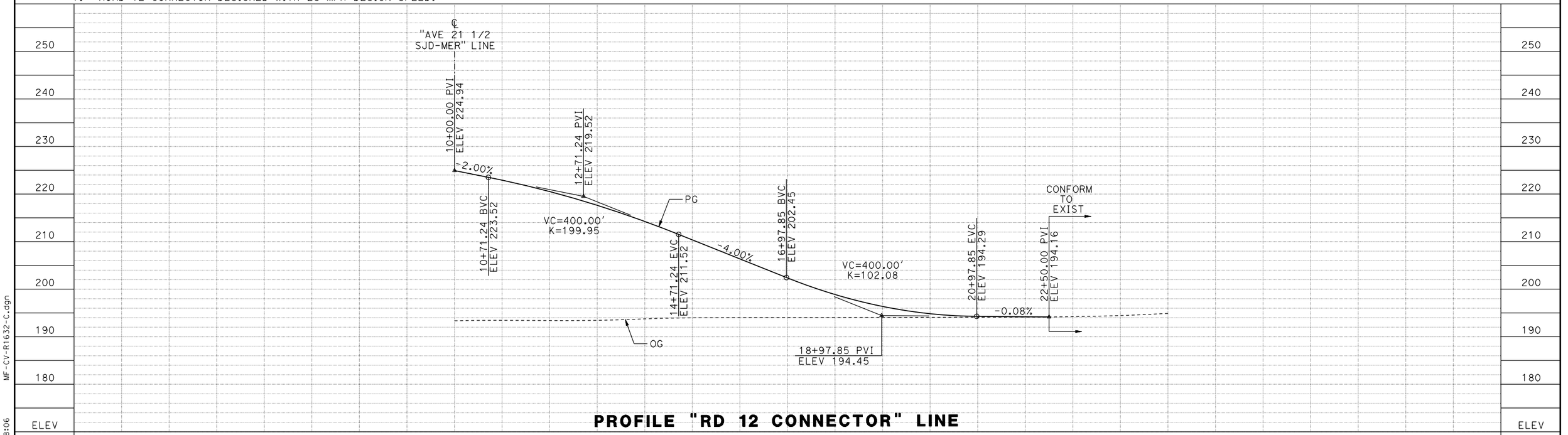
## MADERA COUNTY




## PLAN

NOTES:

1. ROAD 12 CONNECTOR DESIGNED WITH 25 MPH DESIGN SPEED.




## PROFILE "RD 12 CONNECTOR" LINE

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 03/18/2016

**RECORD SET**
**15% DESIGN SUBMITTAL**

**NOT FOR CONSTRUCTION**

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
PLAN AND PROFILE
ROAD 12 CONNECTOR ROAD

CONTRACT NO. 03/18/2016
DRAWING NO. CV-R1632-C
SCALE AS SHOWN
SHEET NO.

MF-CV-R1632-C.dgn
17-MAR-2016 8:06
p005133A

## CONSTRUCTION STAGING

### INDIANA ROAD DETOUR:

1. CONSTRUCT FRONTAGE ROAD.
2. DURING CONSTRUCTION OF INDIANA ROAD GRADE SEPARATION, DETOUR NB INDIANA ROAD TRAFFIC TO EB CATRINA RD, NB WILLIS RD, THEN WB HUTCHINS RD TO FRONTAGE RD.
3. DETOUR SB INDIANA ROAD TRAFFIC TO EB FRONTAGE RD TO HUTCHINS RD, SB WILLIS RD, THEN WB CATRINA RD.
4. DETOUR EB HUTCHINS RD TRAFFIC TO SB PALM AVE, THEN EB ROXBURY RD.
5. RESTORE TRAFFIC TO INDIANA ROAD AND HUTCHINS ROAD UPON COMPLETION OF GRADE SEPARATION WORK.

### ROAD 4 / LINCOLN ROAD DETOUR:

1. CONSTRUCT AVE 21 REALIGNMENT, CONNECTOR ROAD, AND TEMPORARY DETOUR ROADWAY ON WEST SIDE OF ROAD 4 / LINCOLN ROAD. SEE DRAWING CV-I4100-C FOR DETAILS.
2. DIRECT TRAFFIC ONTO DETOUR / CONNECTOR ROAD DURING CONSTRUCTION OF GRADE SEPARATION.
3. RESTORE TRAFFIC TO ROAD 4 / LINCOLN RD UPON COMPLETION OF GRADE SEPARATION WORK.
4. REMOVE TEMPORARY ROADWAY.

### ROAD 9 / HEMLOCK ROAD DETOUR:

1. DURING CONSTRUCTION OF ROAD 9 / HEMLOCK ROAD GRADE SEPARATION, DETOUR NB TRAFFIC TO WB AVE 20 1/2, NB RD 8, THEN EB AVE 21 1/2.
2. DETOUR SB TRAFFIC TO WB AVE 21 1/2, SB RD 8, THEN EB AVE 20 1/2.
3. RESTORE TRAFFIC TO ROAD 9 / HEMLOCK ROAD UPON COMPLETION OF GRADE SEPARATION WORK.

### ROBERTSON BOULEVARD DETOUR:

1. DURING CONSTRUCTION OF ROBERTSON BLVD GRADE SEPARATION AND AVENUE 21 REALIGNMENT DETOUR SB TRAFFIC OF ROBERTSON BLVD ONTO EB AVE 21 1/2, SB ROAD 14, THEN WB AVE 20.
2. DETOUR NB TRAFFIC OF ROBERTSON BLVD ONTO WB AVE 20, NB ROAD 14, THEN EB AVENUE 21 1/2.
3. RESTORE TRAFFIC TO ROBERTSON BLVD UPON COMPLETION OF GRADE SEPARATION.

### ROAD 16 DETOUR:

1. DURING CONSTRUCTION OF ROAD 16 GRADE SEPARATION, DETOUR NB TRAFFIC TO WB AVE 20 1/2, NB RD 15 1/2, THEN EB AVE 21 1/2.
2. DETOUR SB TRAFFIC TO WB AVE 21 1/2, SB RD 15 1/2, THEN EB AVE 20 1/2.
3. RESTORE TRAFFIC TO ROAD 16 UPON COMPLETION OF GRADE SEPARATION WORK.

### ROAD 19 DETOUR:

1. DURING CONSTRUCTION OF ROAD 19 GRADE SEPARATION, DETOUR NB TRAFFIC TO EB AVE 20 1/2, NB RD 19 1/2, THEN WB AVE 21 1/2.
2. DETOUR SB TRAFFIC TO EB AVE 21 1/2, SB RD 19 1/2, THEN WB AVE 20 1/2.
3. RESTORE TRAFFIC TO ROAD 19 UPON COMPLETION OF GRADE SEPARATION WORK.

### ROAD 22 DETOUR:

1. DURING CONSTRUCTION OF ROAD 22 GRADE SEPARATION, DETOUR NB TRAFFIC TO EB AVE 20 1/2, THEN NB RD 24, THEN WB AVE 24.
2. DETOUR SB TRAFFIC TO EB AVE 24, THEN SB RD 24, THEN WB AVE 20 1/2.
3. RESTORE TRAFFIC TO ROAD 22 UPON COMPLETION OF GRADE SEPARATION WORK.

### AVENUE 20 1/2 DETOUR:

1. DURING CONSTRUCTION OF AVENUE 20 1/2 GRADE SEPARATION, DETOUR EB TRAFFIC TO NB RD 22, EB AVE 24, THEN SB RD 26.
2. DETOUR WB TRAFFIC TO NB RD 26, WB AVE 24, THEN SB ROAD 22.
3. RESTORE TRAFFIC TO AVENUE 20 1/2 UPON COMPLETION OF GRADE SEPARATION WORK.

### ROAD 24 DETOUR:

1. DURING CONSTRUCTION OF ROAD 24 DETOUR SB TRAFFIC ONTO EB AVE 22, SB RD 22, SB SR 99, THEN EB AVE 18 1/2.
2. DETOUR NB TRAFFIC ONTO WB AVE 18 1/2, NB SR 99, NB RD 22, THEN EB AVE 22.
3. RESTORE TRAFFIC TO ROAD 24 UPON COMPLETION OF GRADE SEPARATION.

### AVENUE 21 1/2 (MER-FRE) DETOUR:

1. DURING CONSTRUCTION OF AVENUE 21 1/2 GRADE SEPARATION, DETOUR EB TRAFFIC TO NB ROBERTSON BLVD, EB AVE 22 1/2, THEN SB ROAD 14 1/2.
2. DETOUR WB TRAFFIC TO NB ROAD 14 1/2, WB AVE 22 1/2, THEN SB ROBERTSON BLVD.
3. RESTORE TRAFFIC TO AVE 21 1/2 UPON COMPLETION OF GRADE SEPARATION WORK.

### ROAD 14 DETOUR:

1. COMPLETION OF AVE 21 1/2 (MER-FRE) SHOULD OCCUR PRIOR TO CONSTRUCTION OF ROAD 14 WORK STARTS.
2. DURING CONSTRUCTION OF ROAD 14 UNDERPASS, DETOUR SB TRAFFIC TO EB AVE 22, SB ROAD 15, THEN WB AVE 21.
3. DETOUR NB TRAFFIC TO EB AVE 20 1/2, NB ROAD 15, THEN WB AVE 22.
4. RESTORE TRAFFIC TO ROAD 14 UPON COMPLETION OF UNDERPASS WORK.

### AVENUE 25 DETOUR:

1. DURING CONSTRUCTION OF AVENUE 25 UNDERPASS, DETOUR WB TRAFFIC TO SB ROAD 14, WB AVE 23 1/2, THEN NB ROAD 10.
2. DETOUR EB TRAFFIC TO SB ROAD 10, EB AVE 23 1/2, THEN NB ROAD 14.
3. RESTORE TRAFFIC TO ROAD 14 UPON COMPLETION OF UNDERPASS WORK.

### ROAD 13 DETOUR:

1. COMPLETION OF AVE 25 SHOULD OCCUR PRIOR TO CONSTRUCTION OF ROAD 13.
2. DURING CONSTRUCTION OF ROAD 13, DETOUR SB TRAFFIC TO EB AVE 25 1/2, SB ROAD 14, THEN WB AVE 24 1/2.
3. DETOUR NB TRAFFIC TO EB AVE 24 1/2, NB ROAD 14, THEN WB AVE 25 1/2.
4. RESTORE TRAFFIC TO ROAD 13 UPON COMPLETION OF UNDERPASS WORK.

### AVENUE 21 1/2 (SJD-FRE) DETOUR:

1. COMPLETION OF ROBERTSON BLVD SHOULD OCCUR PRIOR TO CONSTRUCTION OF AVE 21 1/2 (SJD-MER).
2. DURING CONSTRUCTION OF AVE 21 1/2 GRADE SEPARATION, DETOUR EB TRAFFIC TO NB ROAD 11, EB AVE 22, THEN SB ROBERTSON BLVD/ SR233.
3. DETOUR WB TRAFFIC TO NB ROBERTSON BLVD, WB AVE 22, THEN SB ROAD 11.
4. RESTORE TRAFFIC TO AVE 21 1/2 UPON COMPLETION OF GRADE SEPARATION WORK.

### CUT-AND-COVER TUNNEL AT SANDY MUSH STAGING:

1. MAINTAIN ONE LANE IN EACH DIRECTION AT ALL TIMES DURING CONSTRUCTION OF CUT-AND-COVER TUNNEL.

02-NOV-2015 3:45 MF-CV-I0001-C.dgn p0051133a

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY A. GURA
DRAWN BY M. TACTAY
CHECKED BY J. RAY
IN CHARGE C. LEMLEY
DATE 10/30/2015

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

PARSONS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
**MERCED TO FRESNO SECTION**
CENTRAL VALLEY WYE
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
STAGE CONSTRUCTION PLAN
GENERAL NOTES

CONTRACT NO. HSR08-05
DRAWING NO. CV-I0001-C
SCALE NO SCALE
SHEET NO.