

California High-Speed Rail Authority

Fresno to Bakersfield Section

**Draft Supplemental
Environmental Impact Report / Environmental Impact Statement**

**Volume III:
Systems Schematic, Traction Power, Train Control and Communications Site
and Access Roadway Plans**

March 2017



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DRAWING NO.	REV NO.	DRAWING DESCRIPTION
		GENERAL
TP-B0001		INDEX OF DRAWINGS
TP-B0002		KEY MAP
TP-B0003		KEY MAP
TP-C6001		WAYSIDE SYSTEMS SCHEMATIC
		TRACTION POWER SITE PLAN
TP-04001		PARALLELING STATION A - OPTIONS 1 AND 2 - 6026+00 & 6037+50
TP-04002-A		SWITCHING STATION A - OPTION 1 - 6216+00
TP-04002-B		SWITCHING STATION A - OPTION 2 - 6258+00
TP-04003		PARALLELING STATION B - OPTIONS 1 AND 2 - 6475+00 & 6480+00
TP-04004		PARALLELING STATION C - OPTIONS 1 AND 2 - 6724+00 & 6733+00
TP-04005-A		SUBSTATION A - OPTIONS 1 AND 2 - 6936+50 & 6939+75
TP-04005-B		SUBSTATION A - HIGH VOLTAGE SWITCHING STATION
		COMMUNICATIONS SYSTEM SITE PLAN
CO-04001-A		STANDALONE RADIO SITE A - OPTION 1 ACCESS ROAD
CO-04001-B		STANDALONE RADIO SITE A - OPTION 1 - 6216+00
CO-04001-C		STANDALONE RADIO SITE A - OPTION 2 ACCESS ROAD
CO-04001-D		STANDALONE RADIO SITE A - OPTION 2 - 6158+00
CO-04002-A		STANDALONE RADIO SITE B - 6348+00
CO-04002-B		STANDALONE RADIO SITE B - ACCESS ROAD
CO-04003		STANDALONE RADIO SITE C - 6601+00
		AUTOMATIC TRAIN CONTROL SITE PLAN
TC-F4001		INTERLOCKING SITE - 5866+91
TC-F4002		INTERLOCKING SITES - 5952+99 & 5956+00
TC-F4003		INTERLOCKING SITE - 5970+00
TC-F4004		INTERLOCKING SITE - 6793+00
TC-F4005-A		INTERLOCKING SITES - 6824+25 & 6824+75 ACCESS ROAD
TC-F5005-B		INTERLOCKING SITES - 6824+25 & 6824+75
TC-F4006-A		INTERLOCKING SITE - 6848+00
TC-F4006-B		INTERLOCKING SITES - 6865+00, 6867+50, & 6876+25
TC-F4007		INTERLOCKING SITE - 6984+20, 6998+50
TC-F4008		INTERLOCKING SITE - 7010+93

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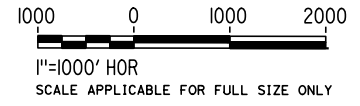
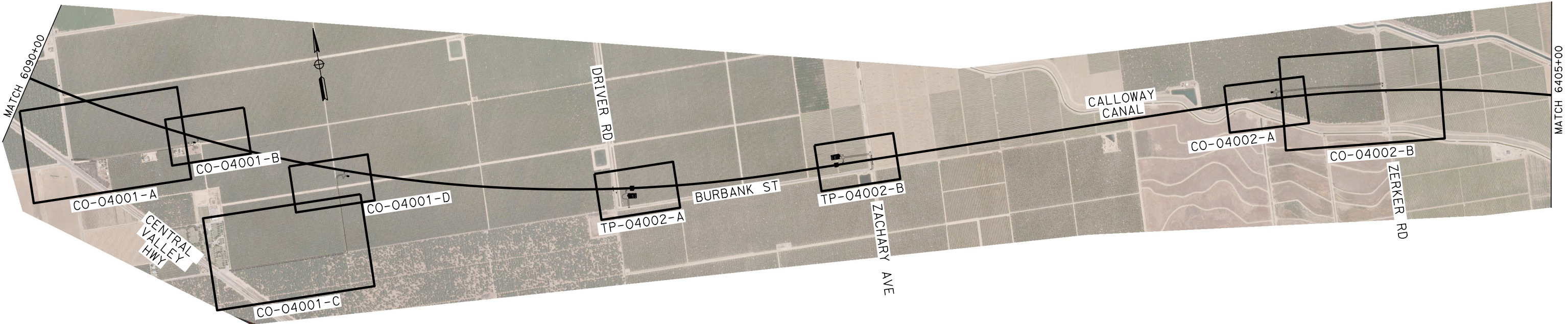
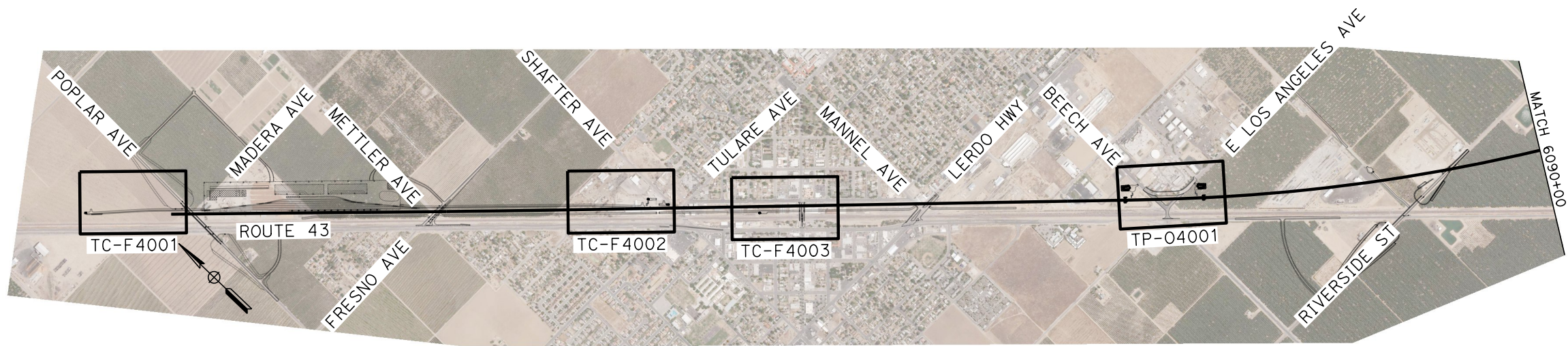
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACTION POWER, COMMUNICATIONS SYSTEM,
AND AUTOMATIC TRAIN CONTROL SITE PLANS
INDEX OF DRAWINGS

CONTRACT NO.
HSR13-44
DRAWING NO.
TP-B0001
SCALE
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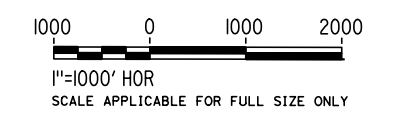
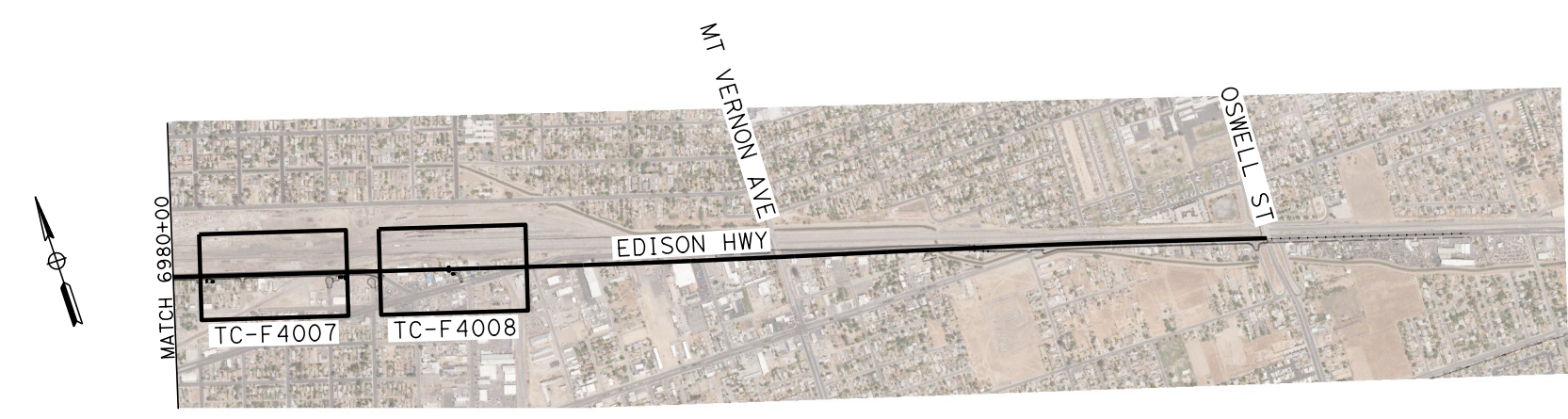
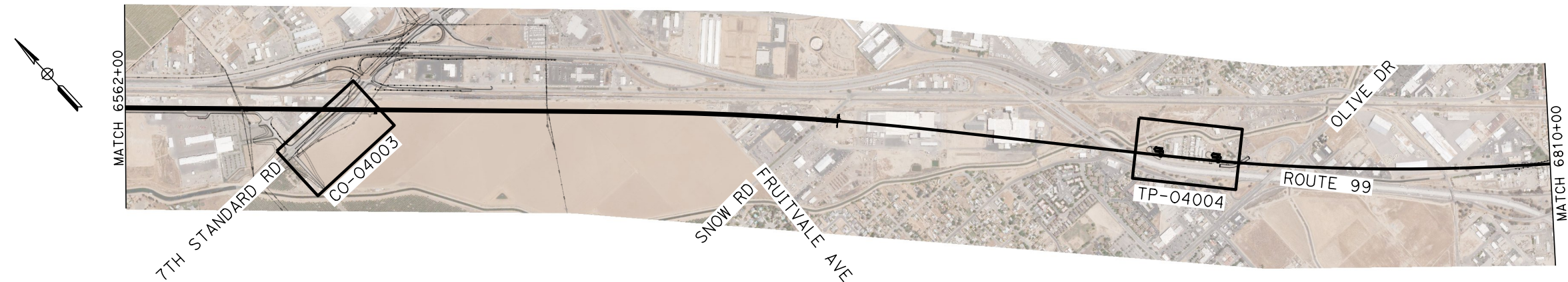
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACTION POWER, COMMUNICATIONS SYSTEM,
 AND AUTOMATIC TRAIN CONTROL SITE PLANS
KEY MAP

CONTRACT NO.
HSR13-44
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AS SHOWN
 SHEET NO.

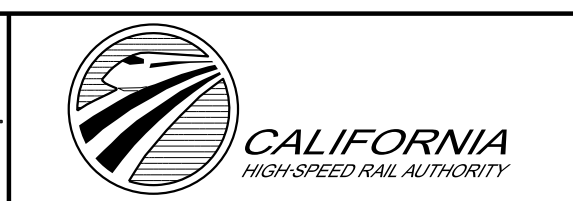
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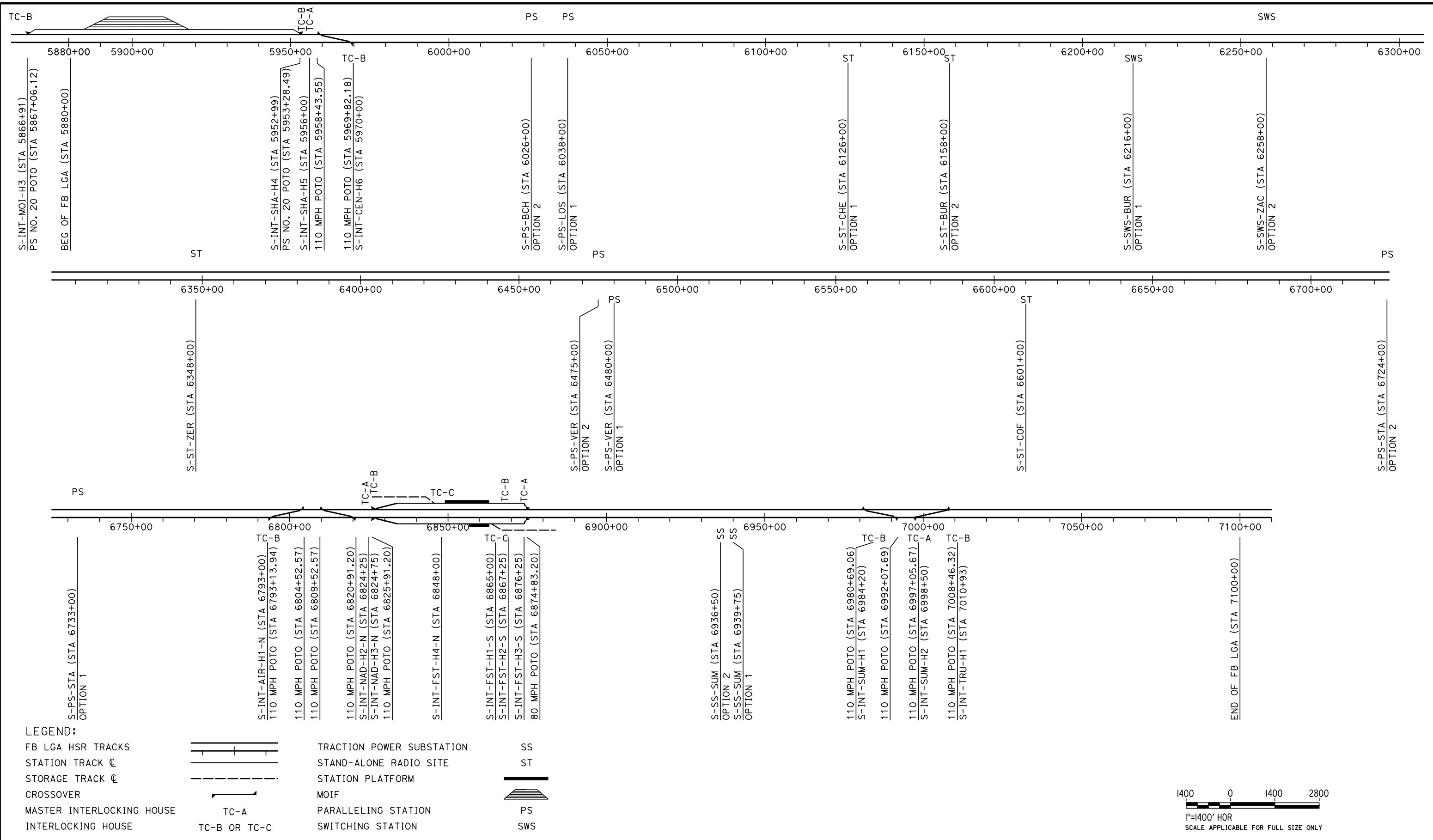
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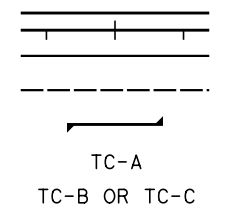
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FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACTION POWER, COMMUNICATIONS SYSTEM,
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KEY MAP

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LEGEND:
 FB LGA HSR TRACKS
 STATION TRACK ☐
 STORAGE TRACK ☐
 CROSSOVER
 MASTER INTERLOCKING HOUSE
 INTERLOCKING HOUSE



TRACTION POWER SUBSTATION
 STAND-ALONE RADIO SITE
 STATION PLATFORM
 MOIF
 PARALLELING STATION
 SWITCHING STATION

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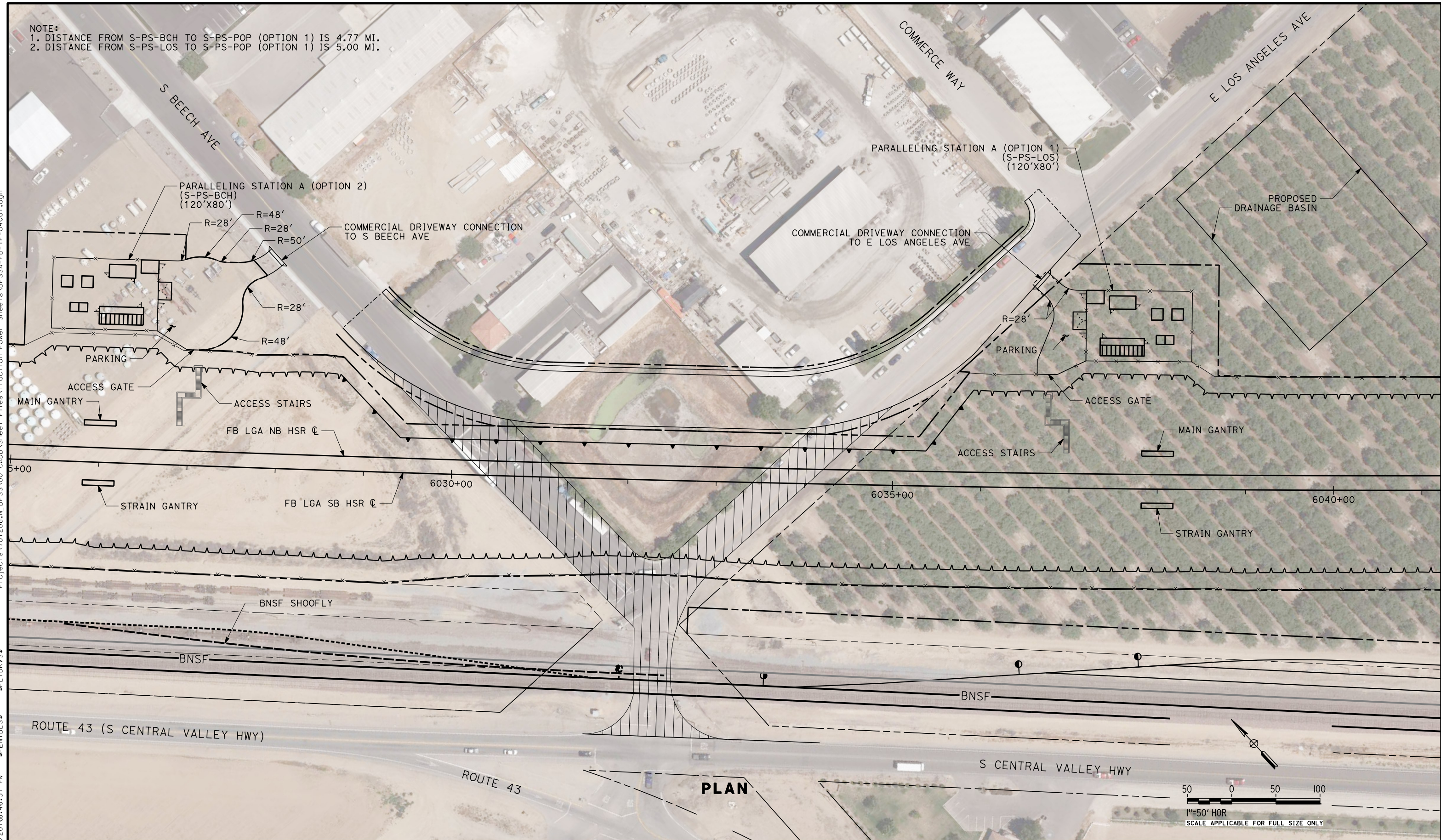


**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 SYSTEMS FACILITIES SCHEMATIC PLAN

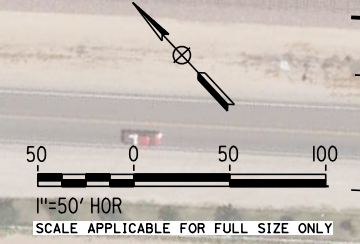
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TP-C6001
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NOTE:
 1. DISTANCE FROM S-PS-BCH TO S-PS-POP (OPTION 1) IS 4.77 MI.
 2. DISTANCE FROM S-PS-LOS TO S-PS-POP (OPTION 1) IS 5.00 MI.

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PLAN



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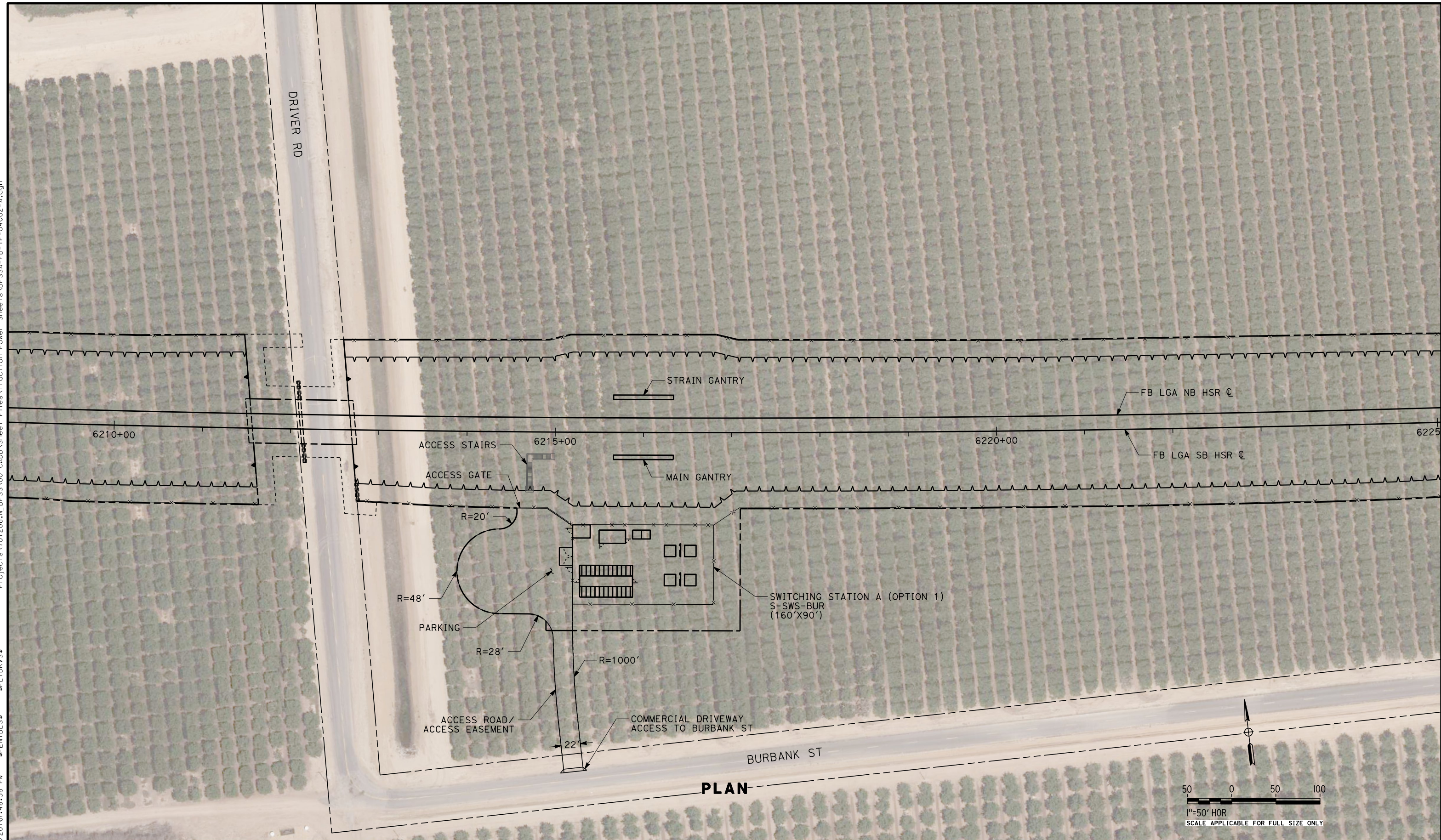
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACTION POWER SITE PLAN
 PARALLELING STATION A
 OPTIONS 1 AND 2

CONTRACT NO.
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TP-04001
 SCALE
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PLAN

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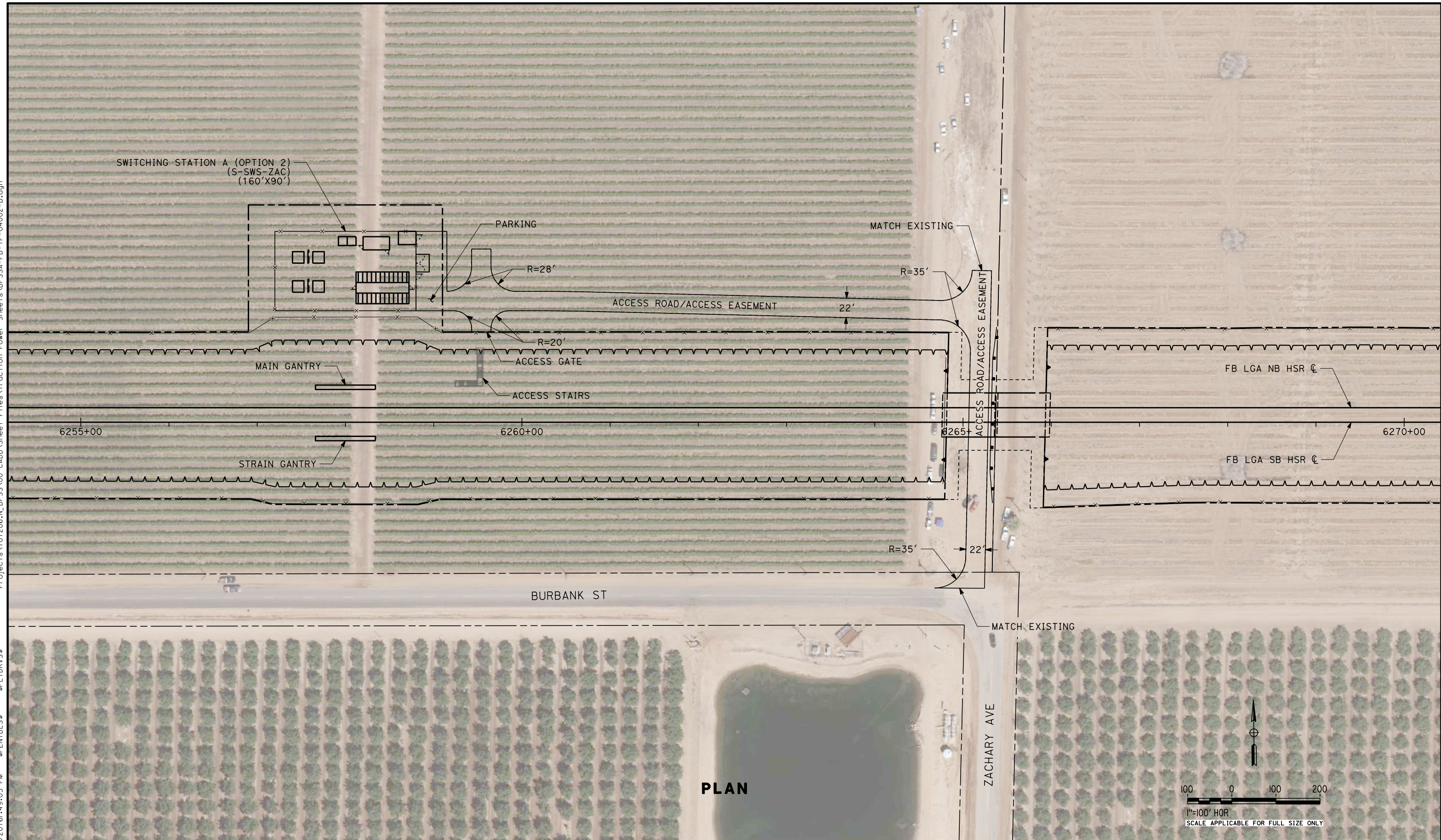
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
TRACTION POWER SITE PLAN
SWITCHING STATION A
OPTION 1

CONTRACT NO.
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DRAWING NO.
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SCALE
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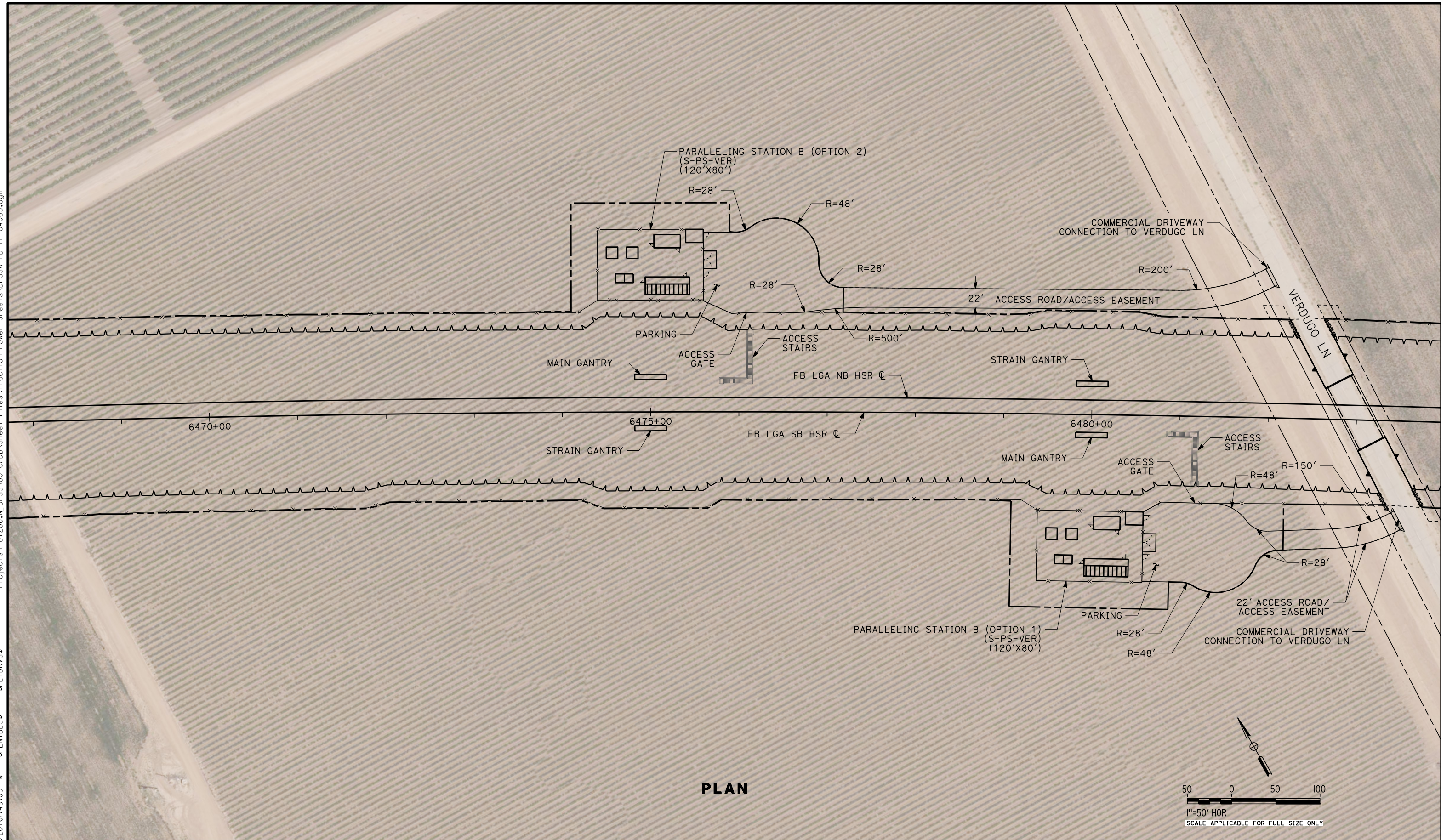
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 TRACTION POWER SITE PLAN
 SWITCHING STATION A
 OPTION 2

CONTRACT NO.
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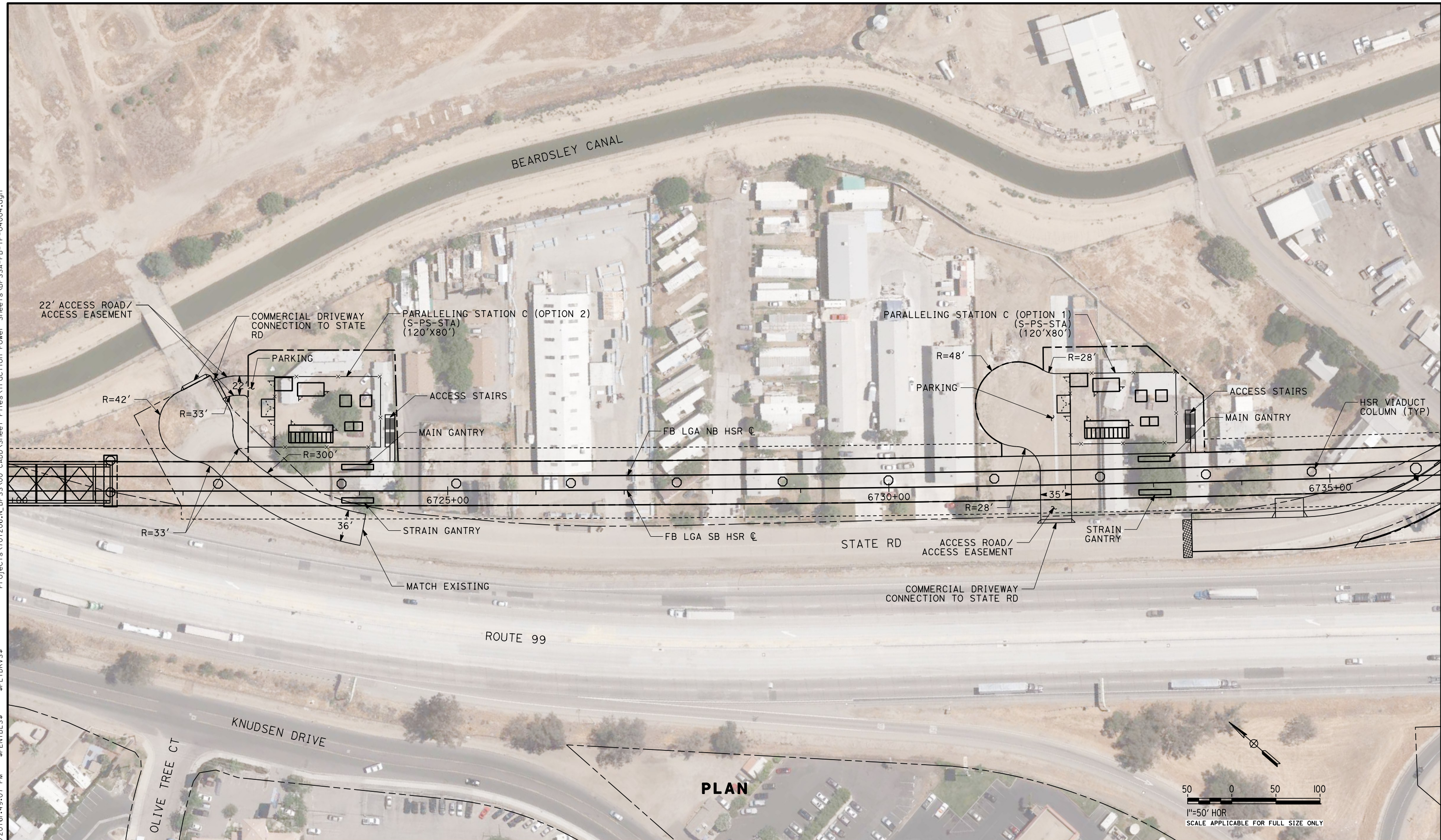
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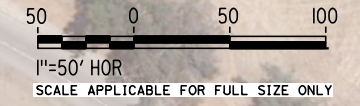
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 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 TRACTION POWER SITE PLAN
 PARALLELING STATION B
 OPTIONS 1 AND 2

CONTRACT NO.
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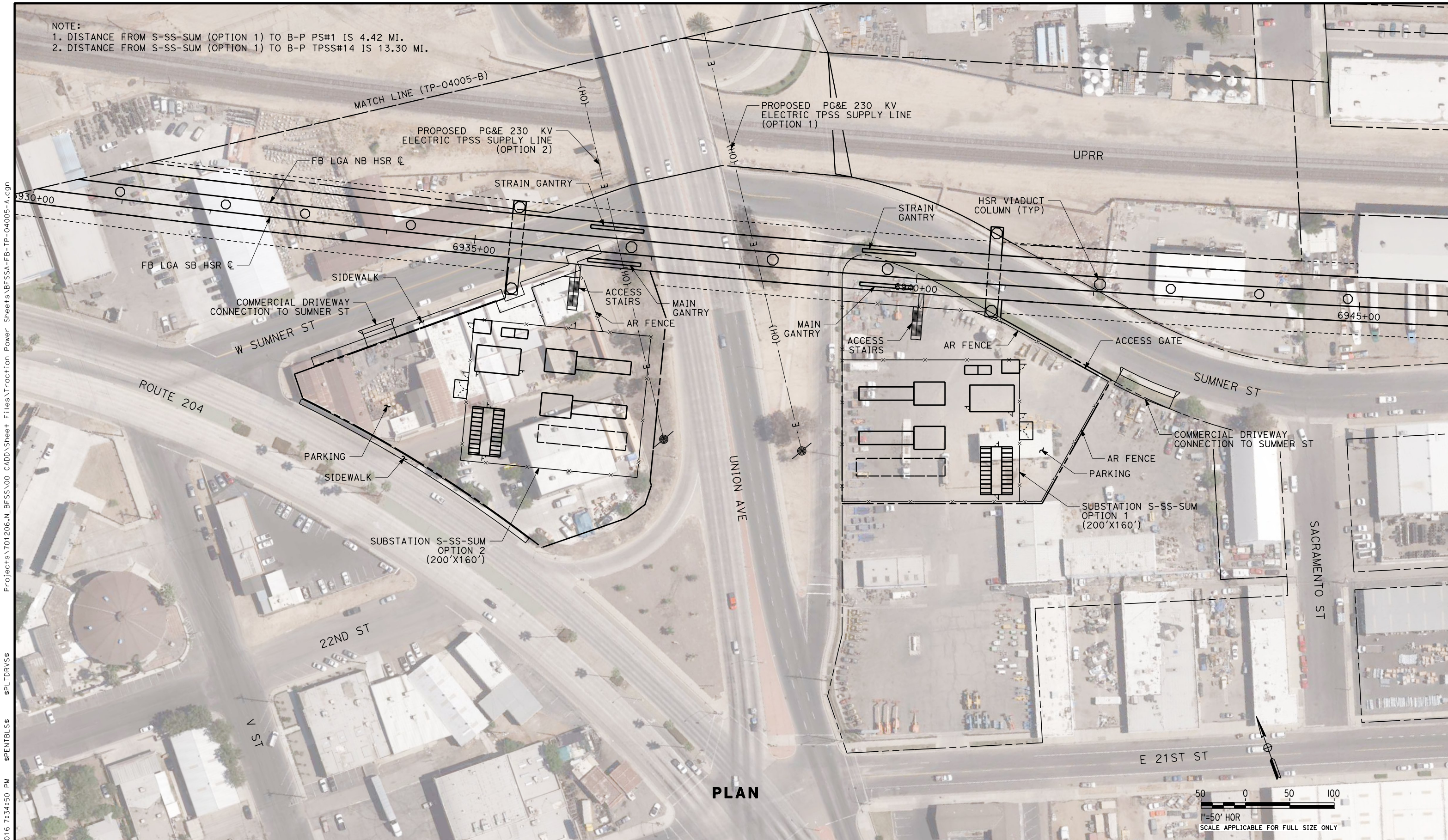
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 TRACTION POWER SITE PLAN
 PARALLELING STATION C
 OPTIONS 1 AND 2

CONTRACT NO.
HSR13-44
 DRAWING NO.
TP-04004
 SCALE
AS SHOWN
 SHEET NO.

NOTE:
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 2. DISTANCE FROM S-SS-SUM (OPTION 1) TO B-P TPSS#14 IS 13.30 MI.



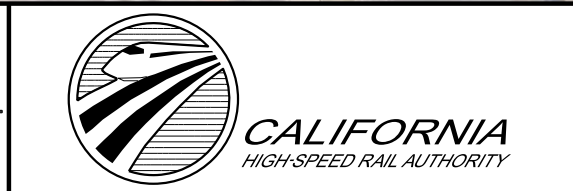
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACTION POWER SITE PLAN
 SUBSTATION A
 OPTIONS 1 AND 2

CONTRACT NO.
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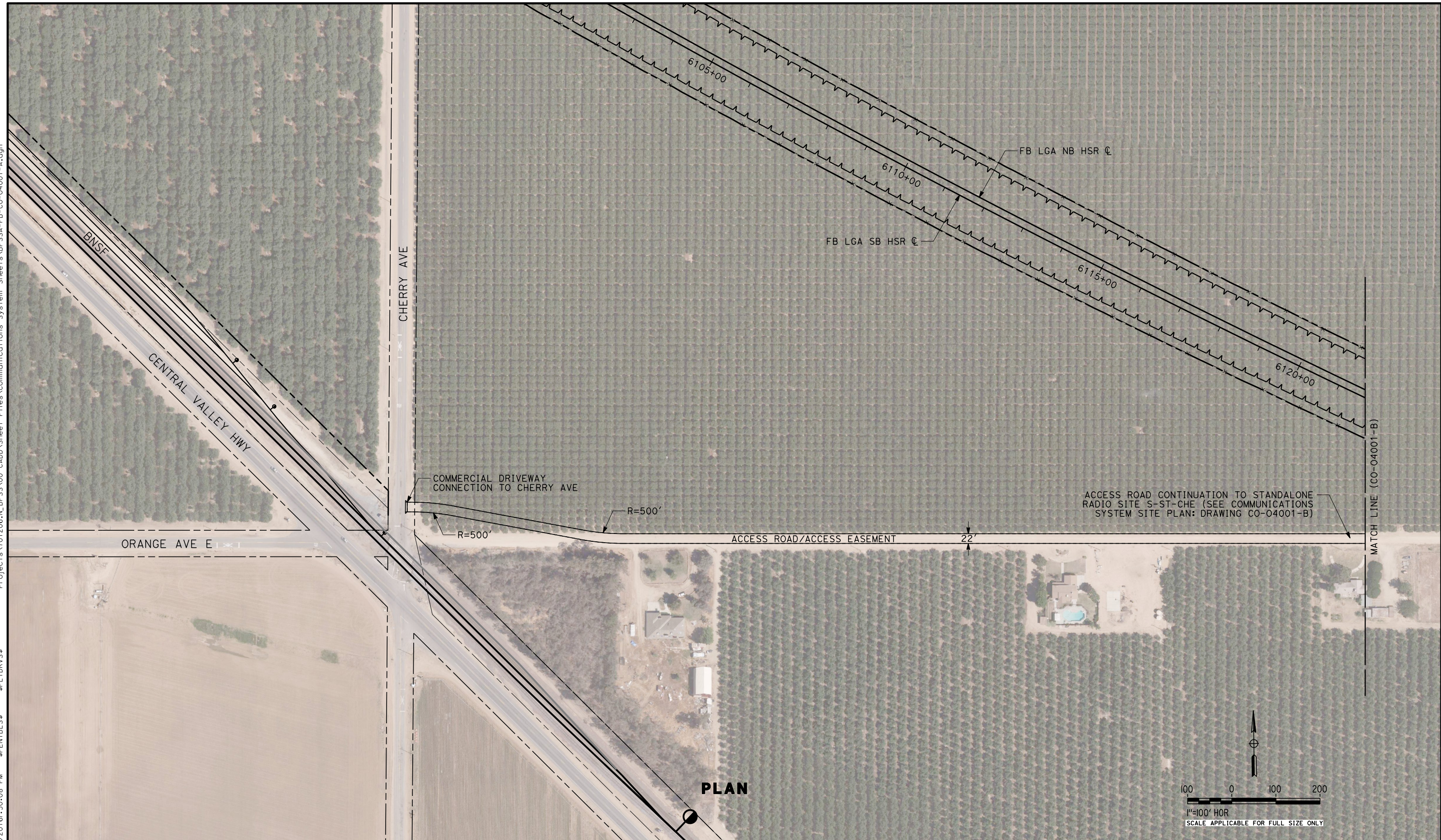
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 TRACTION POWER SITE PLAN
 SUBSTATION A
HIGH VOLTAGE UTILITY SWITCHING STATION

CONTRACT NO.
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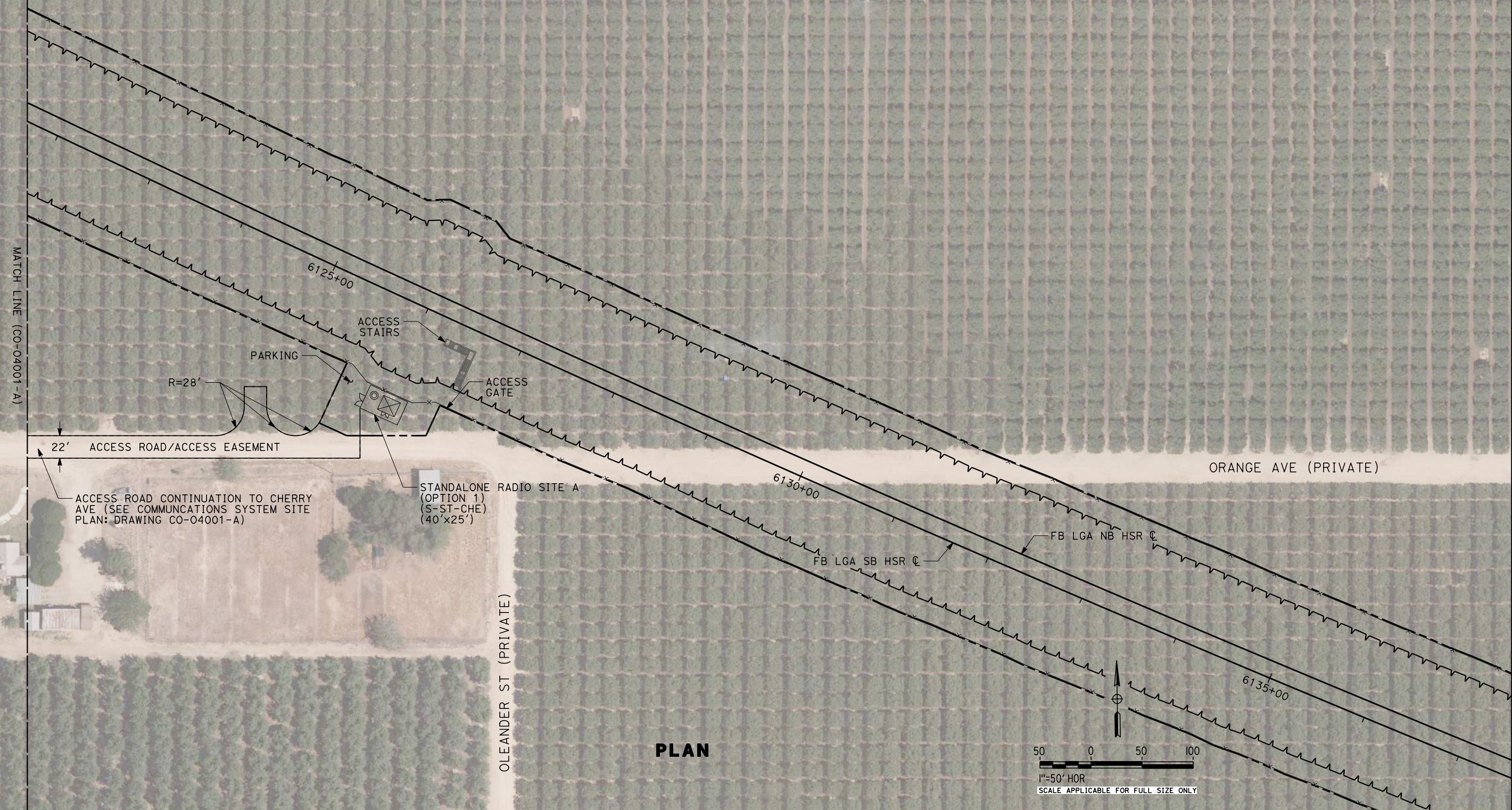
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE A
OPTION 1 ACCESS ROAD

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**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 COMMUNICATIONS SYSTEM SITE PLAN
 STANDALONE RADIO SITE A
 OPTION 1

CONTRACT NO.
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CO-04001-B
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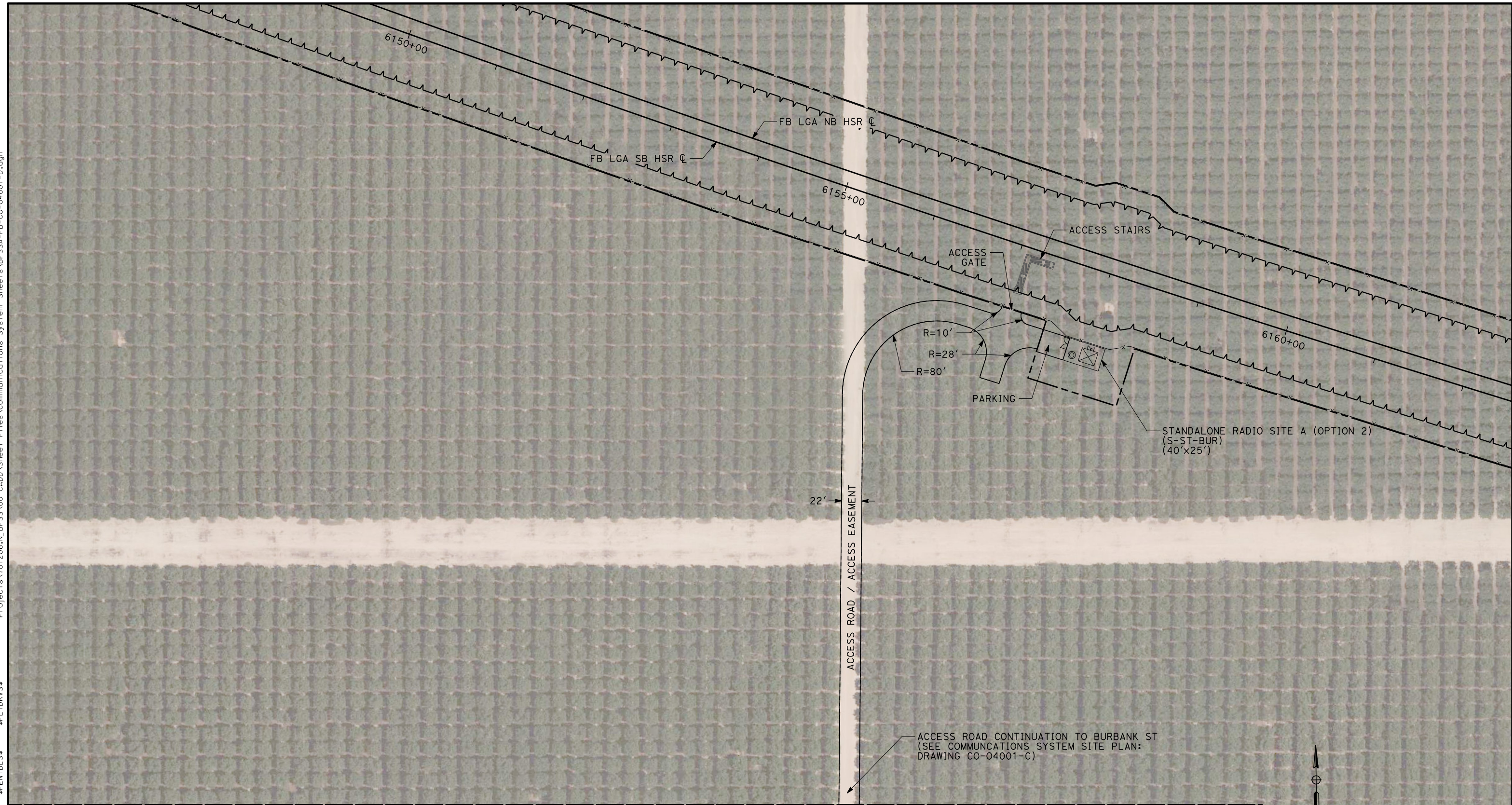
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
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 STANDALONE RADIO SITE A
 OPTION 2 ACCESS ROAD

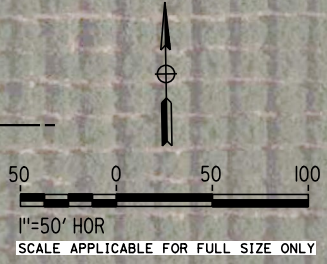
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MATCH LINE (CO-04001-C)

PLAN



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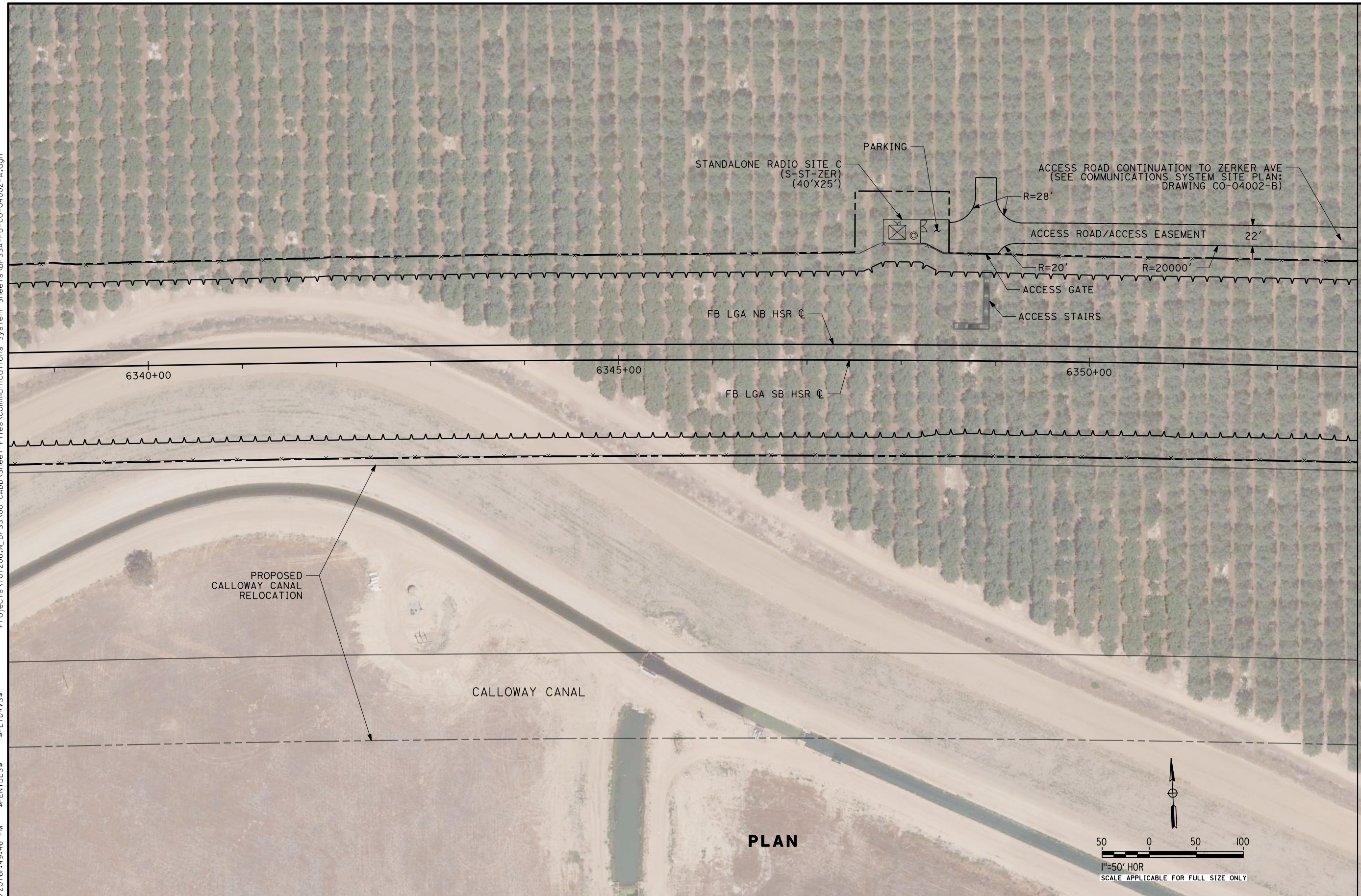
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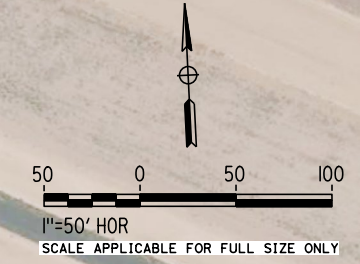
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 STANDALONE RADIO SITE A
 OPTION 2

CONTRACT NO.
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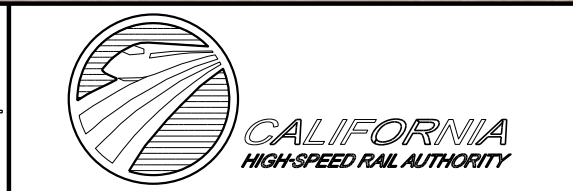
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**

LOCALLY GENERATED ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE B

CONTRACT NO.
HSR13-44

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CO-04002-A

SCALE
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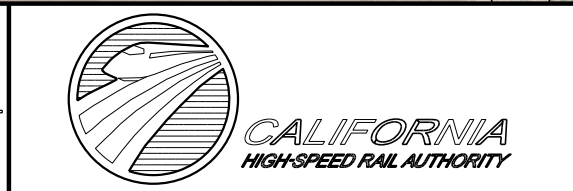
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LOCALLY GENERATED ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE B
ACCESS ROAD

CONTRACT NO.
HSR13-44

DRAWING NO.
CO-04002-B

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SHEET NO.

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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
COMMUNICATIONS SYSTEM SITE PLAN
STANDALONE RADIO SITE C

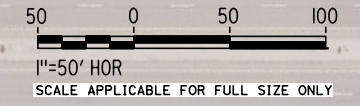
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PLAN

ROUTE 43 (S CENTRAL VALLEY HWY)



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
T. WILKINSON
 DRAWN BY
T. WILKINSON
 CHECKED BY
J. SIHOTA
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

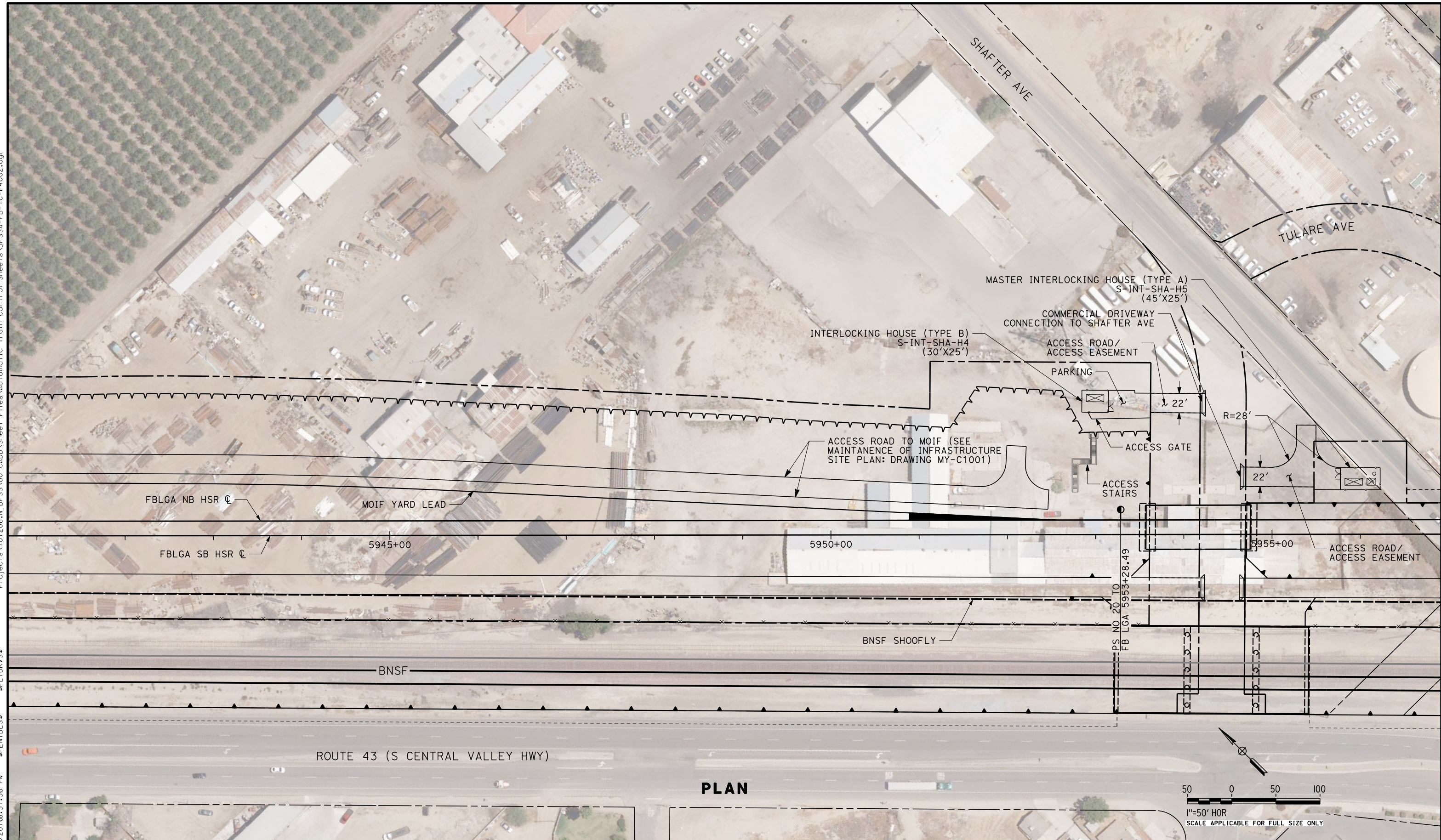
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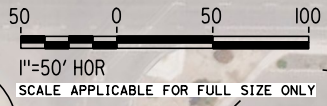
**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 AUTOMATIC TRAIN CONTROL SITE PLAN
 INTERLOCKING SITE AT 5866+91

CONTRACT NO.
HSR13-44
 DRAWING NO.
TC-F4001
 SCALE
AS SHOWN
 SHEET NO.

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PLAN



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DESIGNED BY
T. WILKINSON
 DRAWN BY
T. WILKINSON
 CHECKED BY
J. SIHOTA
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

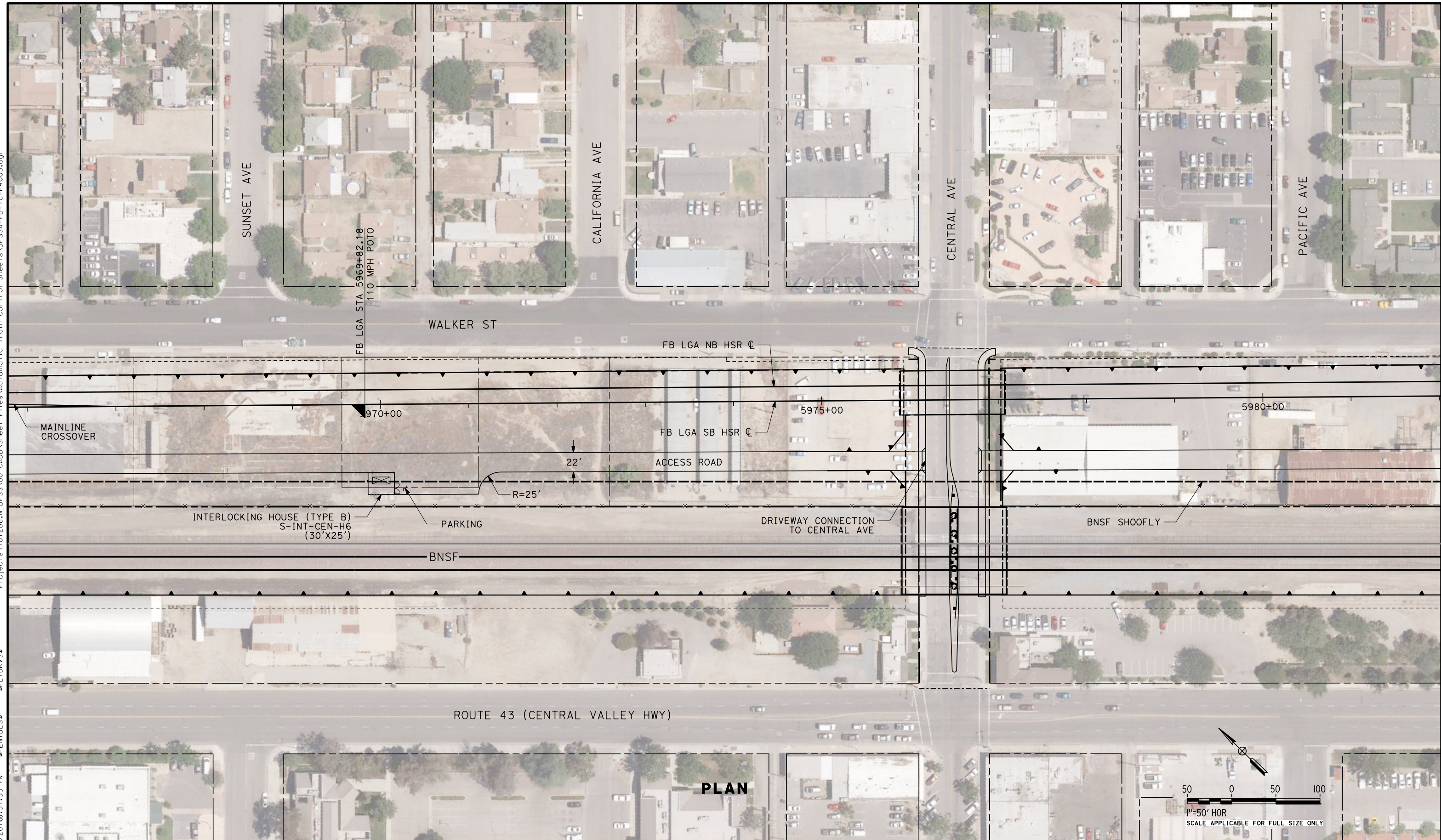
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PEPD DESIGN
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 AUTOMATIC TRAIN CONTROL SITE PLAN
 INTERLOCKING SITES AT 5952+99 AND 5956+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
TC-F4002
 SCALE
AS SHOWN
 SHEET NO.

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PLAN

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DESIGNED BY
T. WILKINSON
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IN CHARGE
E. WINTERS
DATE
10/28/2016

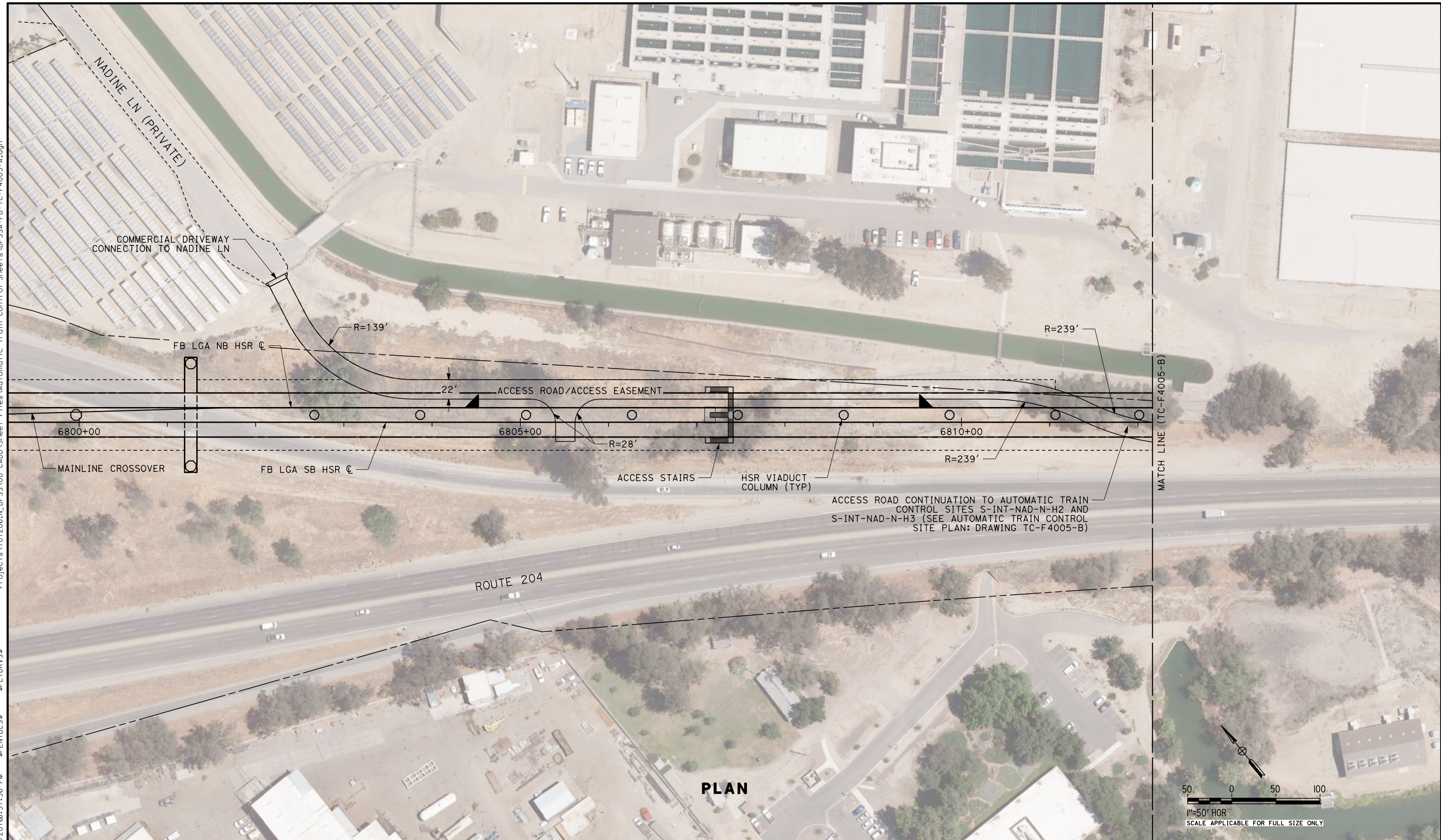
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PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AT 5970+00

CONTRACT NO.
HSR13-44
DRAWING NO.
TC-F4003
SCALE
AS SHOWN
SHEET NO.

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DESIGNED BY
T. WILKINSON
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 IN CHARGE
E. WINTERS
 DATE
10/28/2016

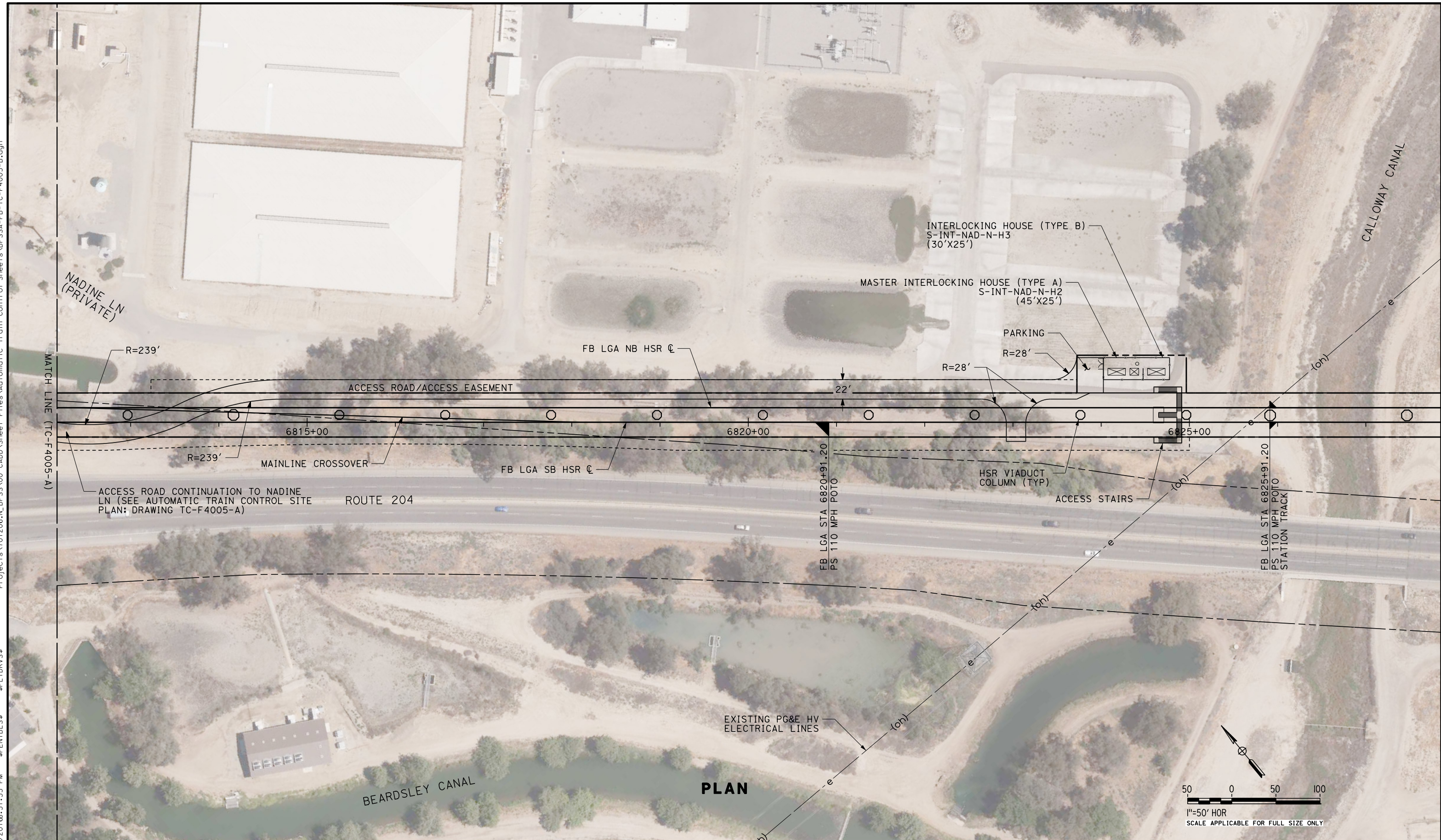
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 SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 AUTOMATIC TRAIN CONTROL SITE PLAN
 INTERLOCKING SITES AT 6824+25 AND 6824+75
 ACCESS ROAD

CONTRACT NO.
HSR13-44
 DRAWING NO.
TC-F4005-A
 SCALE
AS SHOWN
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DESIGNED BY
T. WILKINSON
DRAWN BY
T. WILKINSON
CHECKED BY
J. SIHOTA
IN CHARGE
E. WINTERS
DATE
10/28/2016

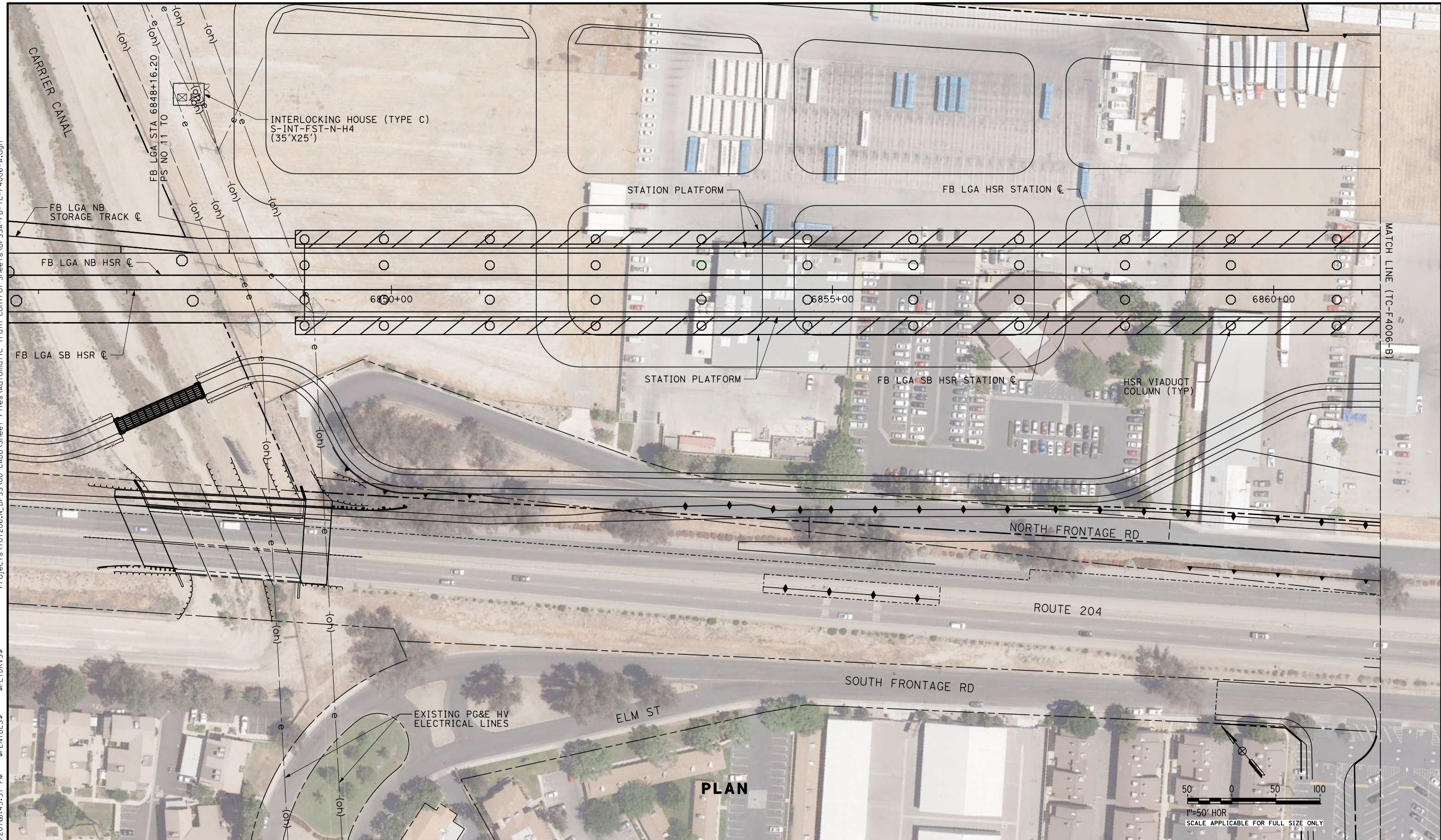
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PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITES AT 6824+25 AND 6824+75

CONTRACT NO.
HSR13-44
DRAWING NO.
TC-F4005-B
SCALE
AS SHOWN
SHEET NO.

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DESIGNED BY
T. WILKINSON
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T. WILKINSON
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E. WINTERS
DATE
10/28/2016

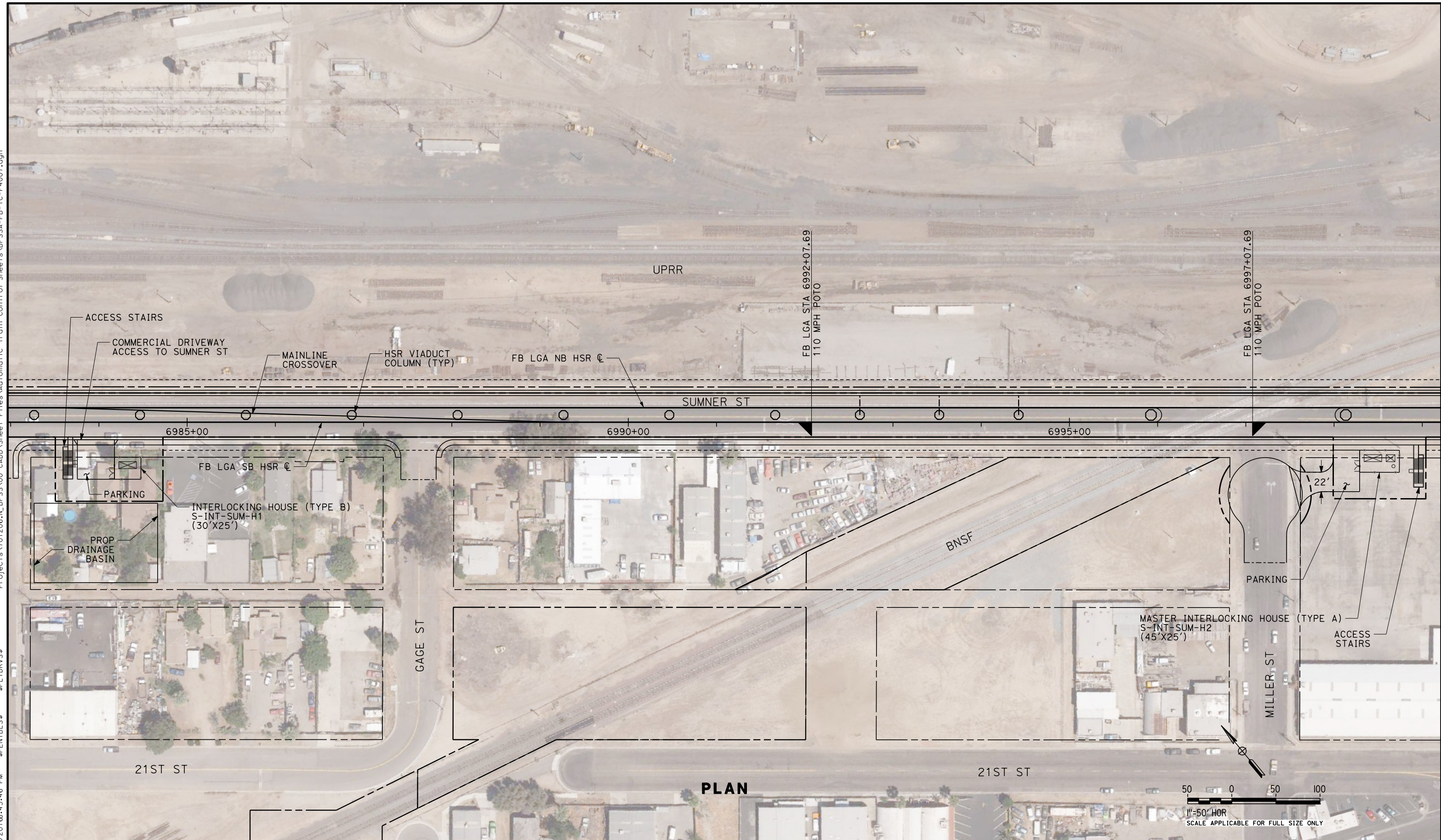
**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AT 6848+00

CONTRACT NO.
HSR13-44
DRAWING NO.
TC-F4006-A
SCALE
AS SHOWN
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PLAN

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DESIGNED BY
T. WILKINSON
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T. WILKINSON
 CHECKED BY
J. SIHOTA
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

**RECORD SET
 PEPP DESIGN
 SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 AUTOMATIC TRAIN CONTROL SITE PLAN
 INTERLOCKING SITES AT 6984+20 AND 6998+50

CONTRACT NO.
HSR13-44
 DRAWING NO.
TC-F4007
 SCALE
AS SHOWN
 SHEET NO.

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PLAN

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DESIGNED BY
T. WILKINSON
DRAWN BY
T. WILKINSON
CHECKED BY
J. SIHOTA
IN CHARGE
E. WINTERS
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
AUTOMATIC TRAIN CONTROL SITE PLAN
INTERLOCKING SITE AT 7010+80

CONTRACT NO.
HSR13-44
DRAWING NO.
TC-F4008
SCALE
AS SHOWN
SHEET NO.

