

Testing Procedures

Drilling and Sampling: Standard penetration tests (SPT) were conducted for every ten feet of boring advancement. SPT tests were conducted in accordance with ASTM D1586, using a 140 pound hammer falling a distance of 2.5 feet. “Undisturbed” soil samples were generally obtained on a ten-foot interval midway between the SPT tests. The undisturbed samples were retrieved using a modified California sampler (split spoon sampler with brass rings, $D_o=2.5$ in, $D_i=1.94$ in) for relatively undisturbed soil samples. The soil samples recovered within the brass rings were sealed with plastic caps/tapes and transported to Caltrans laboratory facilities for testing. Rock core samples were taken using a 4 in diameter diamond impregnated drilling bit, where 2.25 in core samples were taken from the core barrel, logged in the field, and placed in core boxes with labeled depths.

Note: Please refer to Table 2 for a list of completed borings.

Cone Penetration Test: The CPT soundings were performed according to ASTM D5778-95. The Caltrans CPT apparatus employed is a truck-mounted, Hogentogler electric cone penetration testing system. CPT soundings were performed at selected locations, as shown in Table 2, to depths from 0.79 to 35 feet below ground surface. All penetrations were terminated either at required depth, or when the CPT penetrating cone was stopped due to resistance levels greater than CPT operating specifications (Tip Resistance at 47826 kPa /500tsf).

Laboratory Testing: The laboratory testing program consisted of moisture-density determinations (California Test Method (CTM 226)), grain-size distribution (CTM 203), direct-shear (CTM 222), consolidation/collapse potential testing of undisturbed soil specimens (CTM 219), compaction tests (CTM 216), and corrosion tests (CTM 532, 417, 422) of disturbed bulk samples (see Section 13). The results of Laboratory testing are presented in Appendix VI.

The Soil Collapse Test is done as a part of the consolidation testing under CTM 219. The vertical pressure on the soil specimen is increased to 100kPa (or 1tsf/2000psf). At this vertical pressure, distilled water is added to the oedometer to measure the amount of one-dimensional collapse of soil specimen. The collapse potential is defined as the change in height of specimen due to inundation divided by the initial height of the specimen.

For compaction testing, instead of adding and subtracting moisture from the soil specimen at field moisture condition, the soil samples are dried, and water is added at 2% increment for compaction to determine the maximum dry density/optimum moisture content.

Table 2. Summary of Completed Boring Information
(08-SBd-58-PM 22.2/31.1, EA: 08-043510)

Boring Number	Location	Equipment	Soil Exploration Method	Depth of boring (ft)	Ground Elevation (ft)
Main Alignment of Proposed Route 58					
B-1	1221+56, CL	CS1000	Drilling/Mud Rotary	31.5	2247
B-2	1234+69, CL	CS1000	Drilling/Mud Rotary	36.5	2250
B-5	1271+00, 164 ft Lt CL	CME-750	Drilling/Mud Rotary	34	2337
B-7	1270+67, 115 ft Rt CL	Track rig	Drilling/Mud Rotary	40.3	2320
B-8	1277+33, 164 ft Lt CL	CME-750	HQ Core/Mud Wash	64	2350
B-9	1277+65, 164 ft Rt CL	CME-750	HQ Core/Mud Wash	45	2341
B-10	1280+85, 33 ft Rt CL	Track rig	HQ Core/Mud Wash	59	2350
B-11	1280+61, 164 ft Lt CL	CME-750	HQ Core/Mud Wash	89.9	2343
B-13	1284+16, 43 ft Lt CL	Mobile B-47	HQ Core/Mud	21.7	2348
B-14	1284+00, 164 ft Rt CL	Mobile B-47	HQ Core/Mud	49.2	2348
B-16	1291+90, 82 ft Lt CL	Mobile B-47	HQ Core/Mud	42.7	2318
B-17	1290+65, 148 ft Rt CL	Track rig	HQ Core/Mud	45	2332
B-18	1296+40, 82 ft Lt CL	Track rig	HQ Core/Mud	44.5	2315
B-19	1296+10, 131 ft Rt CL	Track rig	HQ Core/Mud	45	2324
B-20	1303+70, 115 ft Lt CL	Track rig	HQ Core/Mud	30	2303
B-22	1310+05, 98 ft Rt CL	Track rig	HQ Core/Mud	23	2298
B-24	1349+50, CL	CS1000	Drilling/Mud Rotary	36.5	2233
B-25	1362+62, CL	CS1000	Drilling/Mud Rotary	36.5	2232
B-26	1375+75, CL	CS1000	Drilling/Mud Rotary	36.5	2228
B-27	1388+87, CL	CS1000	Drilling/Mud Rotary	36.5	2224
B-35	1420+03, CL	Mobile B-47	Drilling/HSA	31.5	2215
B-36	1447+26, CL	Mobile B-47	Drilling/HSA	31.5	2203
B-37	1473+83, CL	Mobile B-47	Drilling/HSA	31.5	2196
B-38	1500+08, CL	Mobile B-47	Drilling/HSA	31.5	2190

Boring Number	Location	Equipment	Soil Exploration Method	Depth of boring (ft)	Ground Elevation (ft)
B-39	1526+65, CL	Mobile B-47	Drilling/HSA	31.5	2184
B-40	1579+15, CL	Mobile B-47	Drilling/HSA	31.5	2181
MLC-1	1420+03, CL	Hogentogler	CPT Sounding	19.4	2215
MLC-2	1447+03, CL	Hogentogler	CPT Sounding	6.4	2203
MLC-3	1473+83, CL	Hogentogler	CPT Sounding	30.8	2196
MLC-4	1500+08, CL	Hogentogler	CPT Sounding	26.2	2190
MLC-5	1526+65, CL	Hogentogler	CPT Sounding	30.0	2184
MLC-6	1579+15, CL	Hogentogler	CPT Sounding	32.2	2181
North of Proposed Rt 58 WB Offramp toward Lenwood Rd. (for Proposed Retaining Wall)					
B-33	1639+84, 644 ft Lt CL	CME-750	Drilling/HSA	41.5	2176
B-34	1636+56, 625 ft Lt CL	CME-750	Drilling/HSA	46.5	2174
A-13-001	1635+10, 662 ft Lt CL	CME-750	HQ Auger	49.5	2174
A-13-002	1637+60, 599 ft Lt CL	CME-750	HQ Auger	60	2173
A-13-003	1639+60, 546 ft Lt CL	CME-750	HQ Auger	50	2173
Lenwood Road (for Proposed Approach Embankment)					
B-28	84+49, 16 ft Lt CL	CME-85	Drilling/HSA	61.5	2176
B-29	91+05, 16 ft Lt CL	CME-85	Drilling/HSA	61.5	2175
B-30	97+61, 39 ft Rt CL	Mobile B-47	Drilling/Mud Rotary	51.5	2175
B-32	110+79, 16 ft Lt CL	Mobile B-47	Drilling/Mud Rotary	56.5	2176
LWC-1	110+79, 16 ft Lt CL	Hogentogler	CPT Sounding	36.1	2176
LWC-3	97+61, 16 ft Lt CL	Hogentogler	CPT Sounding	22.8	2176
Frontier Road (for Proposed Soundwalls, North of Main Alignment)					
SWC1	1316+69, 262 ft Lt CL	Hogentogler	CPT Sounding	19.2	2268
B-23A	1323+25, 262 ft Lt CL	Mobile B-47	Drilling/Mud Rotary	31.5	2250
SWC2	1331+46, 262 ft Lt CL	Hogentogler	CPT Sounding	10.3	2240
B-23B	1341+30, 262 ft Lt CL	Mobile B-47	Drilling/Mud Rotary	31.5	2231



BORING LAST RECEIVED 7/27/2010

USGS NAD 83 211251
DEM FILE: 43 801514003.dgn

RELATIVE BORING SCALE

UNIT: 0000

PROJECT NUMBER & PHASE

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CALTRANS
Division of Engineering
Services
Geotechnical Design-South 2

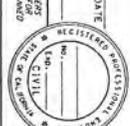
EA: 09-049510	Boring Location Map
Date: April 2013	
SR 58 Realignment @ Hinkley 08-SB0-58-PM 22.2/31.1	Figures No. 2-1



⊕ Approximate Boring Locations

LAYOUT
SCALE: 1"=50'

L-3

SHEET COUNTY	ROUTE	POST MILES	SHEET TOTAL
		TOTAL PROJECT	NO. SHEETS
REGISTERED CIVIL ENGINEER DATE			
PLANS APPROVAL DATE			
THE STATE OF CALIFORNIA ON ITS OFFICERS AND EMPLOYEES IS NOT PROVIDING ANY WARRANTY OR GUARANTEE OF ACCURACY OR COMPLETION OF THIS PLAN SHEET.			
			



BORDER L-AS1 REVISED 1/27/2010

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CON FILE: s311251.mxd; s311251.dgn

RELATIVE BORDER SCALE
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UNIT: 0000

PROJECT NUMBER & PHASE

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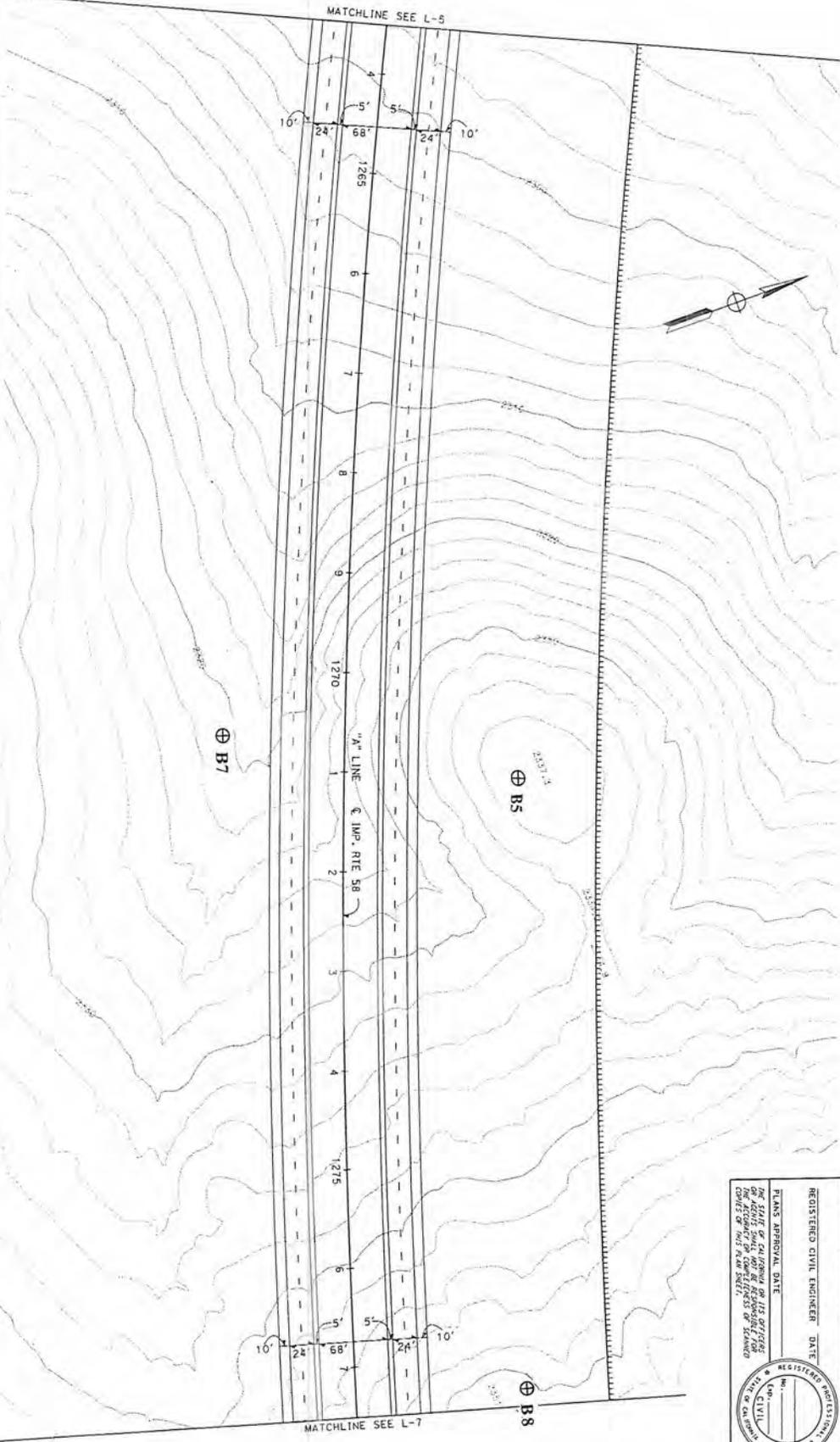
CALTRANS
Division of Engineering Services
Geotechnical Design-Soils 2

EA: 08-043510
Date: April 2013

Boring Location Map

SR 58 Realignment @ Hinkley
08-SBd-58-PM 22.231.1

Figure No. 2-2



DIS: COUNTY ROUTE POST MILE SHEET TOTAL
TOWNSHIP SECTION S&E SHEET

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REGISTERED PROFESSIONAL ENGINEER
No. []
Exp. []
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LAYOUT
SCALE: 1"=50'

L-6

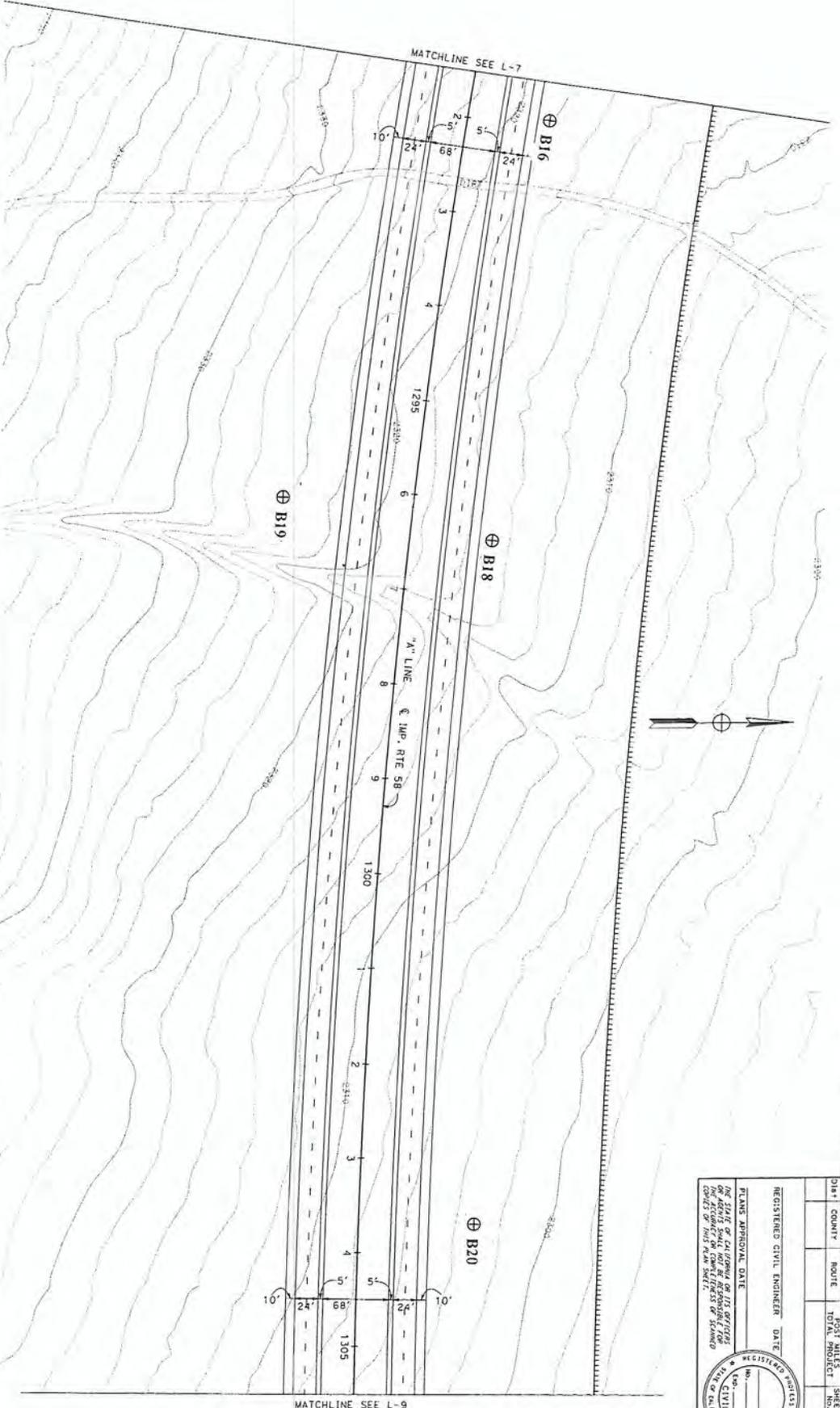
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY
Caltrans		CHECKED BY	DATE REVISED

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EA-08-043510
Date: April 2013
SR 58 Realignment @ Hinkley
08-S8d-58-PM 22.2/31.1

Boring Location Map
Figure No. 2-4



DATE	COUNTY	ROUTE	POST MILE	SHEET TOTAL
			TOTAL PROJECT	SHEET TOTAL

REGISTERED CIVIL ENGINEER DATE

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The State of California, on its behalf, and the Board of Civil Engineers, State of California, certify that the undersigned is a duly Licensed Professional Engineer in the State of California.

REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA

BORDER LAST REVISED 7/2/2010

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DATE PLOTTED: 11-OCT-2012

TIME PLOTTED: 11:08

SCALE: 1"=50'

LAYOUT

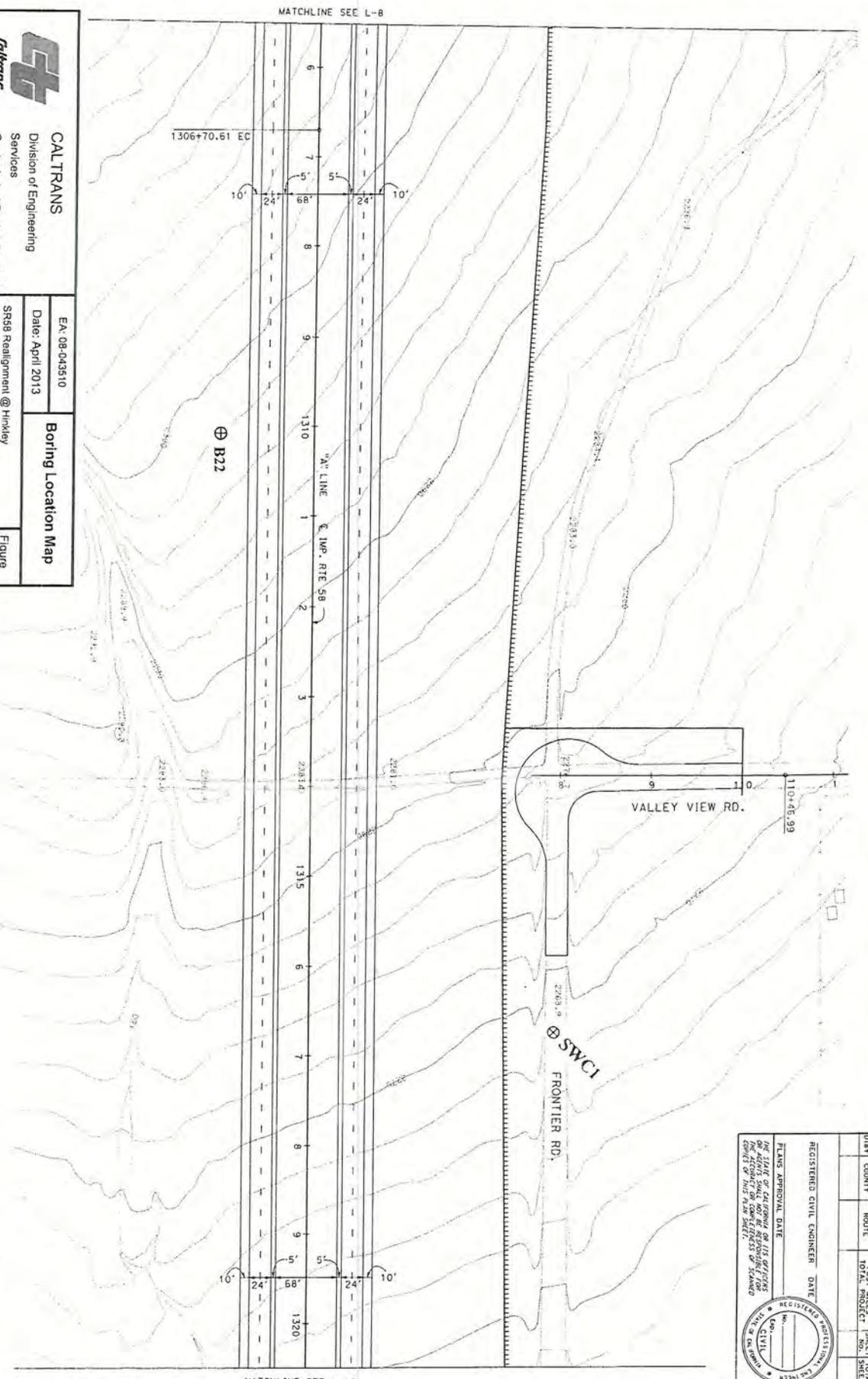
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EA: 08-043510
 Date: April 2013
 SR98 Realignment @ Hinkley
 08-SBd-58-PM 22/2/31.1

Boring Location Map
 Figure No. 2.5



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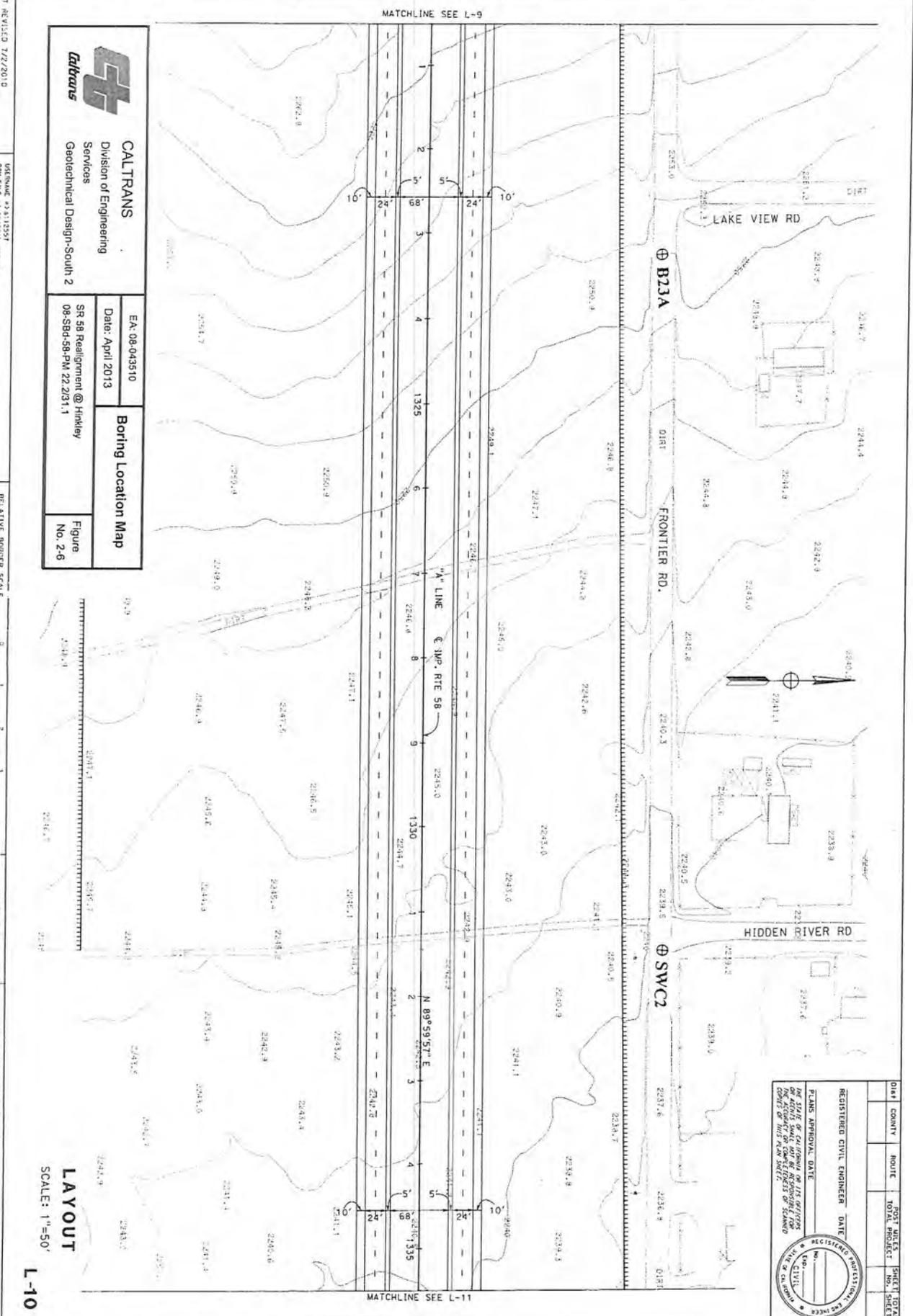
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 DIST. PROJECT NO. SHEETS

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 No. 11111
 License No. 11111



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EA-08-043510	Boring Location Map
Date: April 2013	
SR 58 Realignment @ Hinkley 08-SB4-SB-PM 22.231.1	Figure No. 2.6



LAYOUT
 SCALE: 1"=50'
L-10

DATE	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	NO. SHEETS

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA BY ITS OFFICERS OF PUBLIC WORKS AND BY REGISTERED PROFESSIONAL ENGINEERS AND ARCHITECTS IS HEREBY CERTIFIED THAT THESE PLANS COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA PUBLIC WORKS ACT.

REGISTERED PROFESSIONAL ENGINEER

NO. 11111

DATE: 11/10/08

BOOKEND LAST REVISION 7/27/2010

DATE PLOTTED 03/13/2013
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RELATIVE GRAPHIC SCALE
 IN INCHES

UNIT 0000

PROJECT NUMBER & PHASE

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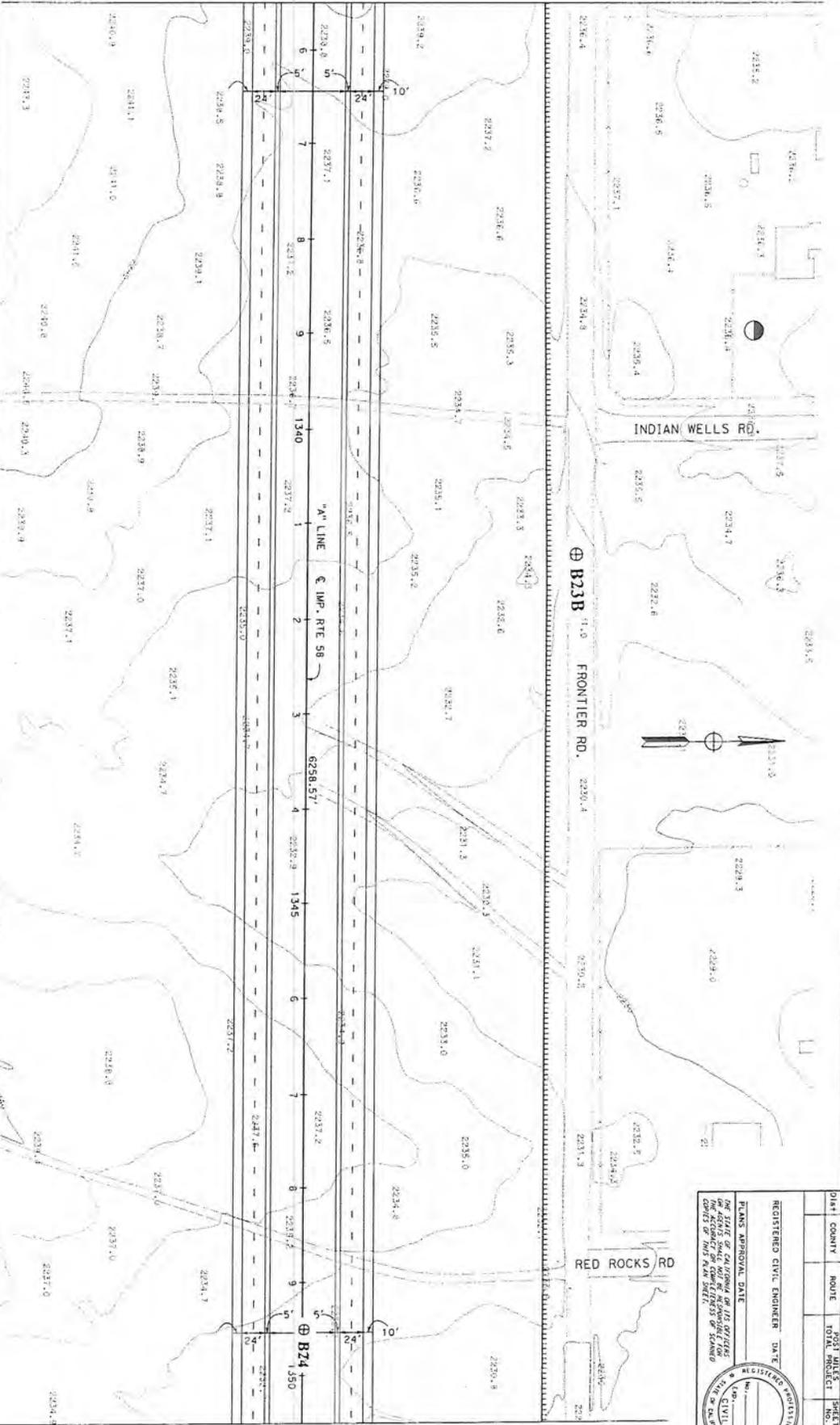
CALTRANS
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 Geotechnical Design- South 2

EA: 08-043510
 Date: April 2013
 SR58 Realignment @ Hinkley
 08-58d-58-PM 22 2/31.1

Boring Location Map
 Figure No. 2-7



LAYOUT
 SCALE: 1"=50'



MATCHLINE SEE L-12

DIST	COUNTY	ROUTE	SHEET NO.
		TOTAL SHEETS	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA ON ITS OFFICIAL SEAL AND SEAL OF THE REGISTERED CIVIL ENGINEER HAS REVIEWED THESE PLANS AND FINDS THEM TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEERING PROFESSIONAL ACT AND THE RULES AND REGULATIONS OF THE BOARD OF ENGINEERS AND SURVEYORS.



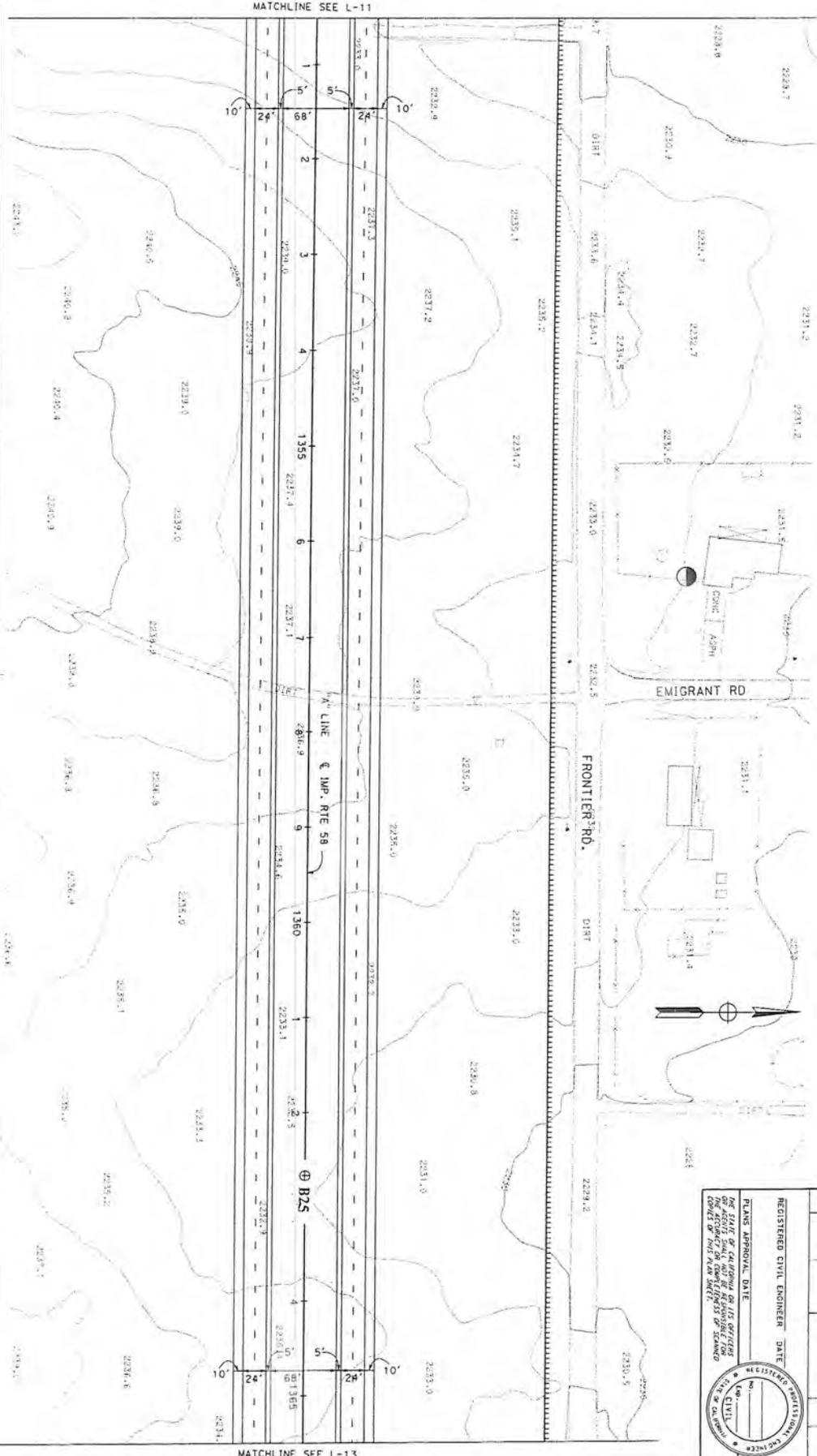
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CALTRANS
 Division of Engineering Services
 Geotechnical Design-Soils 2

EA: 08-043510
 Date: April 2013
 SR 58 Realignment @ Hinkley
 08:58d-58-PM 22.2/31.1

Boring Location Map
 Figure No. 2-8



LAYOUT
 SCALE: 1"=50'

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL CIVIL ENGINEER

THE STATE OF CALIFORNIA BY ITS OFFICERS OF THE BOARD OF REGISTERED PROFESSIONAL CIVIL ENGINEERS HAS REVIEWED THESE PLANS AND FOUND THEM TO BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE BOARD OF REGISTERED PROFESSIONAL CIVIL ENGINEERS.

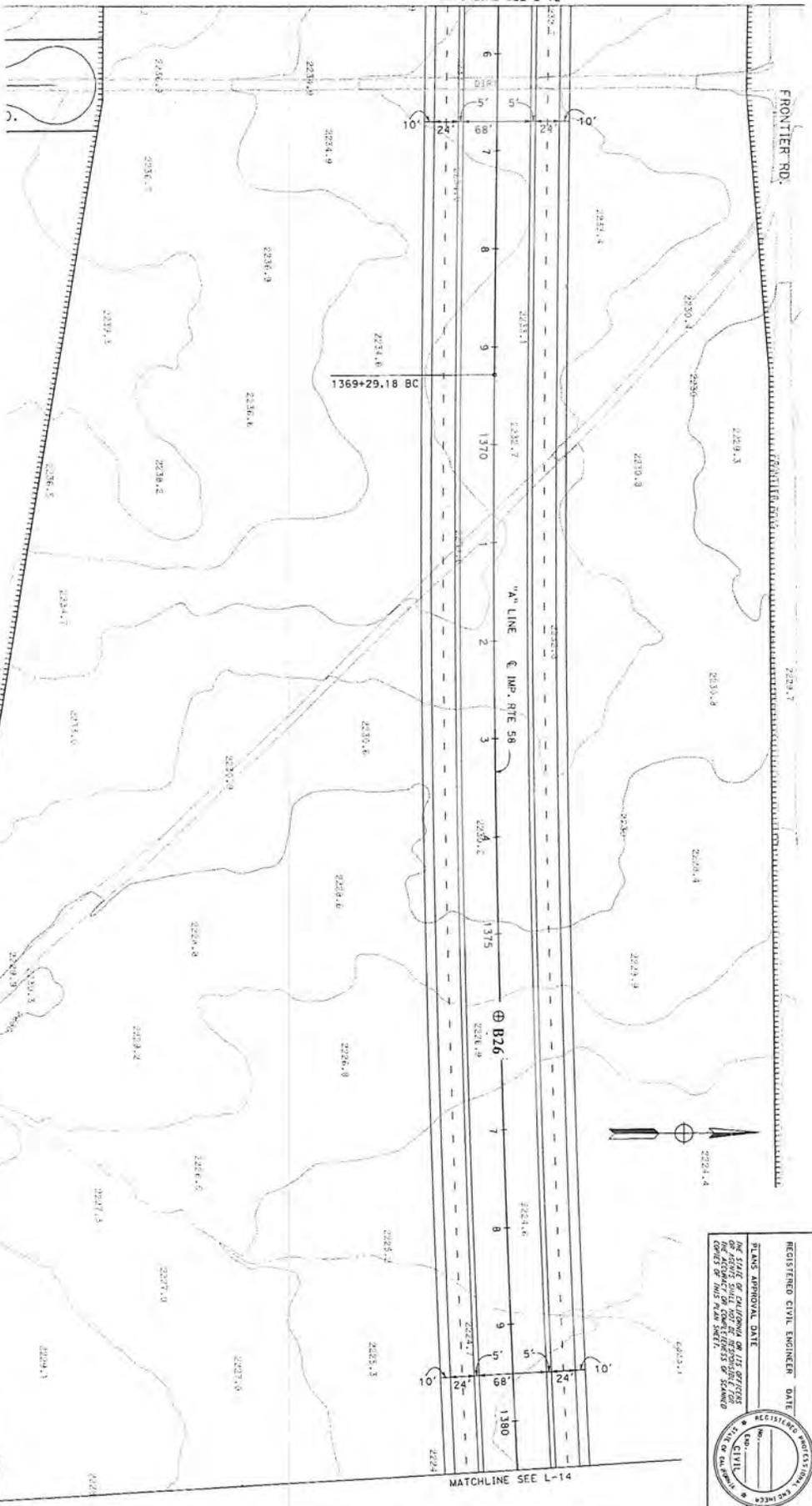
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 PROJECT NUMBER & PHASE
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 Division of Engineering Services
 Geotechnical Design-South 2

EA: 08-043510
 Date: April 2013
 SR 58 Realignment @ Hinkley
 08-SR4-58-PM 22.2131.1

Boring Location Map
 Figure No. 2-9



DATE	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	NO. SHEETS

REGISTERED CIVIL ENGINEER DATE

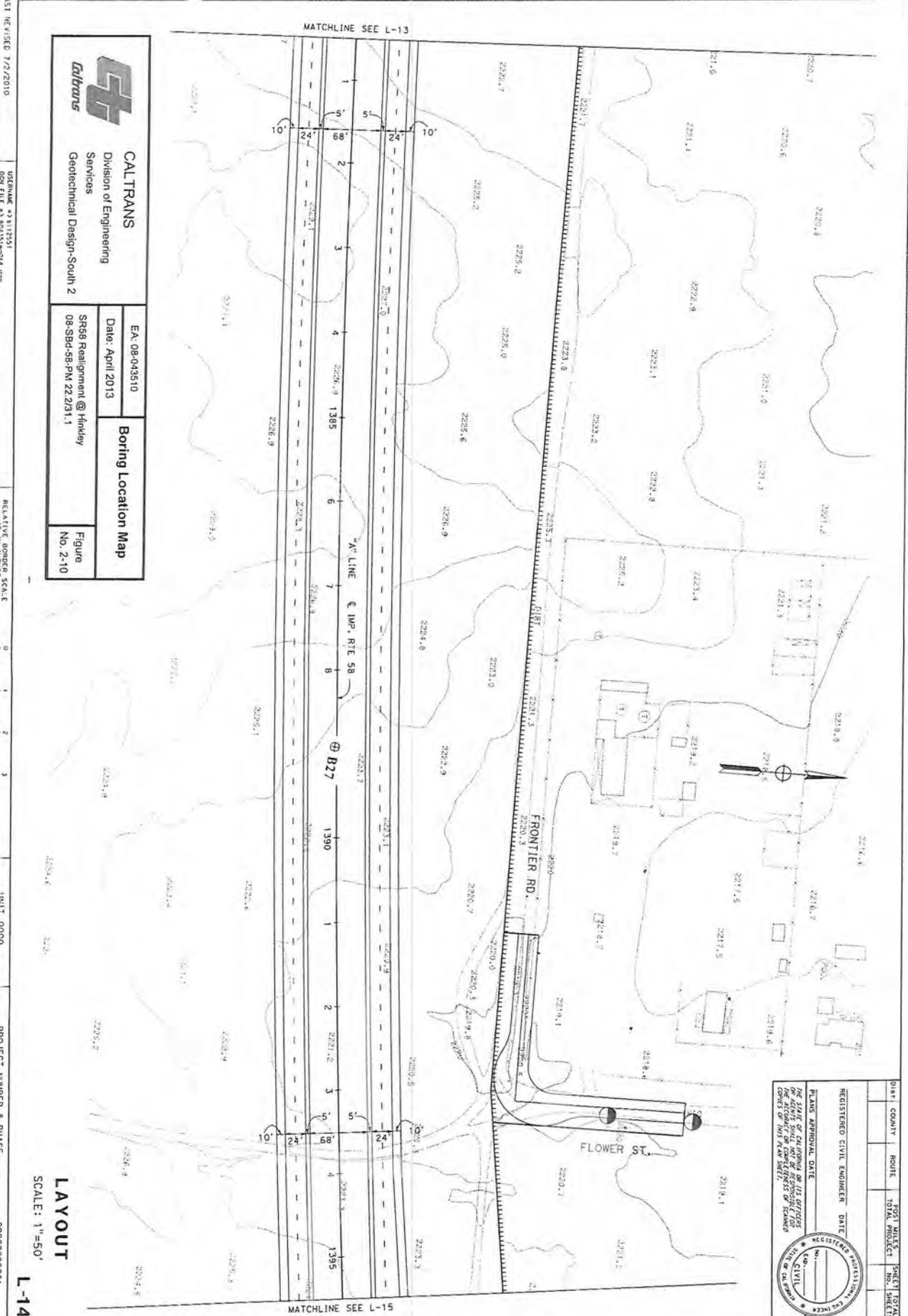
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA ON ITS BEHALF
 THE REGISTERED CIVIL ENGINEER
 HAS ACCEPTED THE COMPETENCY OF THESE
 COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL CIVIL ENGINEER
 No. _____
 STATE OF CALIFORNIA

LAYOUT
 SCALE: 1"=50'

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Caltrans		CHECKED BY	DATE REVISED



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Division of Engineering Services
Geotechnical Design-South 2

EA: 08-043510
Date: April 2013

Boring Location Map

SR58 Realignment @ Hinkley
08-SB4-58-PM 22.2/31.1

Figure No. 2-10

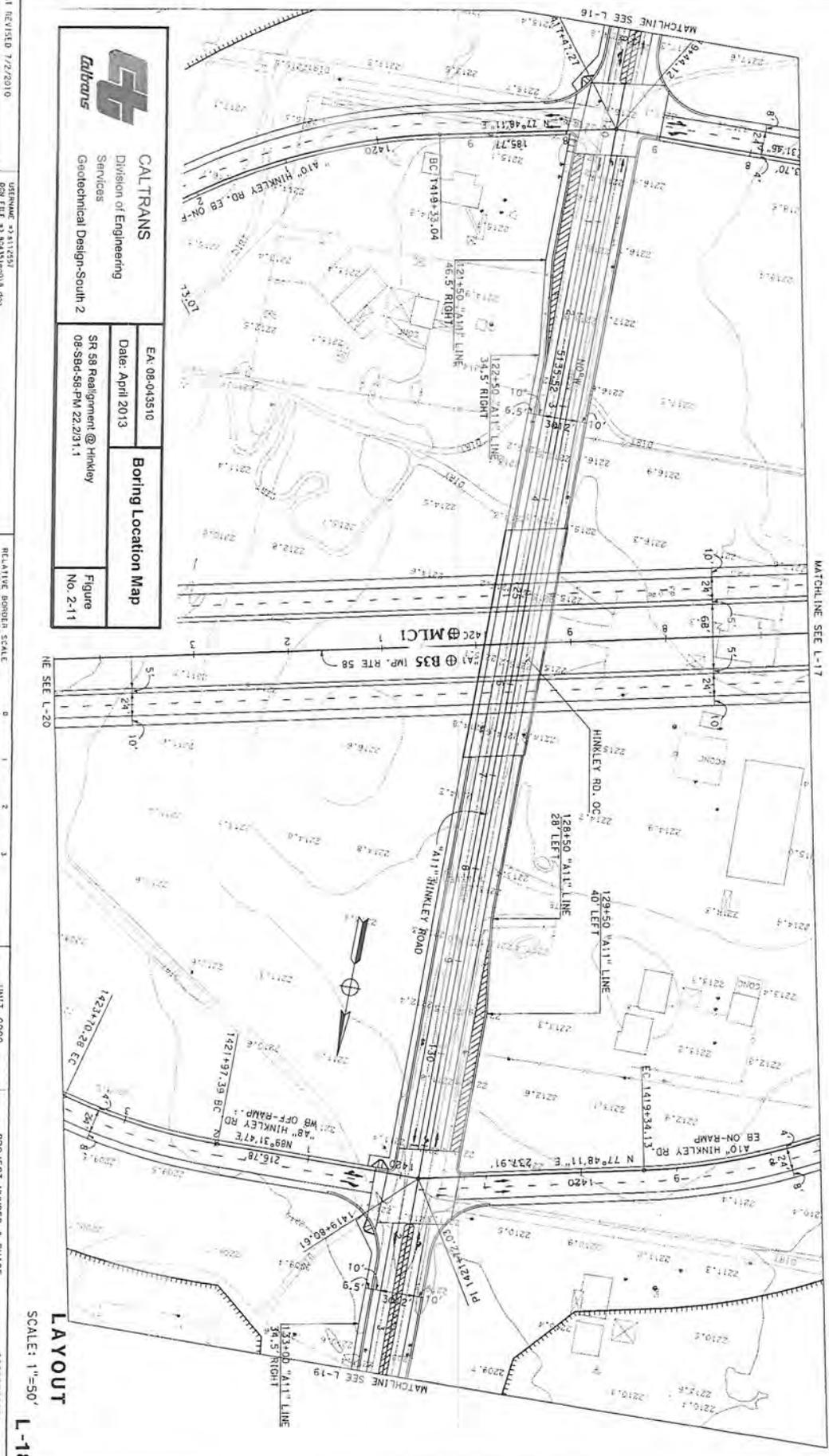
DIST COUNTY ROUTE POST MILES SHEET TOTALS
TOTAL PROJECT NO. SHEETS

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

ONE SIGN OF CALTRANS OR ITS OFFICES
THE ATTORNEY OR COUNTY CLERK OF CALTRANS
COUNTS OF THIS PLAN SHEET

REGISTERED PROFESSIONAL ENGINEER
No. 100-1000
CIVIL
STATE OF CALIFORNIA



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 Division of Engineering
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 Geotechnical Design-South 2

EA: 08-043510
 Date: April 2013
Boring Location Map

SR 58 Realignment @ Hinkley
 08-SBd-58-PM 22.2/31.1
 Figure No. 2-11

REVISION: 00-00-00
 DATE PLOTTED => 17-OCT-2012
 TIME PLOTTED => 11:13

UNIT 0000
 PROJECT NUMBER & PHASE
 000000000001

SCALE: 1"=50'
LAYOUT
L-18

DIS# COUNTY ROUTE FEET TOTAL PROJECT SHEET NO. SHEETS

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA BY ITS OFFICERS
 REGISTERED CIVIL ENGINEER
 STATE OF CALIFORNIA
 COUNTY OF SAN PABLO

BORDER LAST REVISION 7/2/2010

USERNAME: 23112327
CON FILE: 48451.ead21.dgn

RELATIVE BORDER SCALE
15 IN ARCHES

UNIT: 0000

PROJECT NUMBER & PHASE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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DATE REVISED



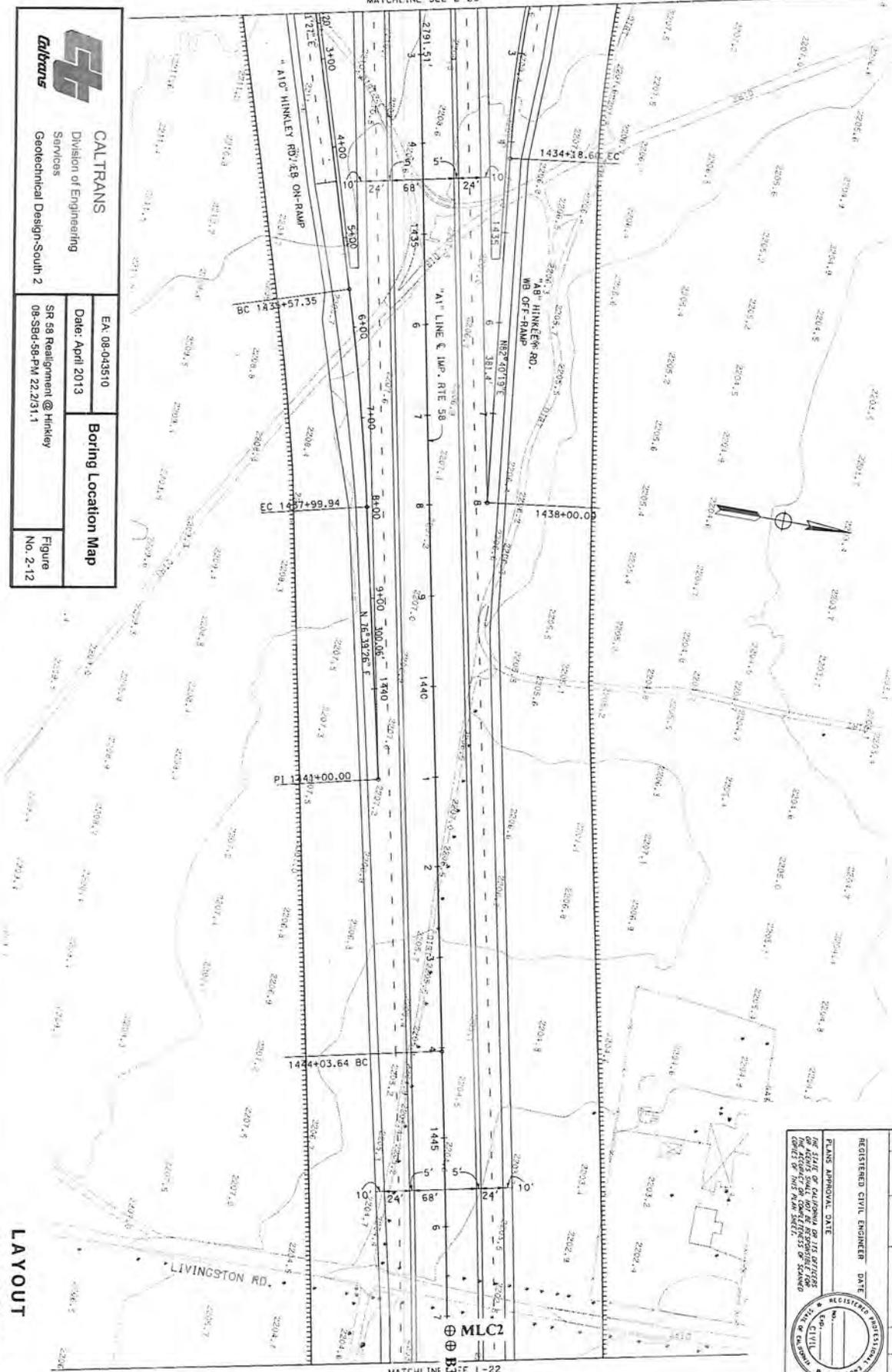
MATCHLINE SEE L-20

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Services
Geotechnical Design-South 2

EA: 08-04510
Date: April 2013
SR 58 Realignment @ Hinkley
08-SB4-58-PM 22.2/31.1

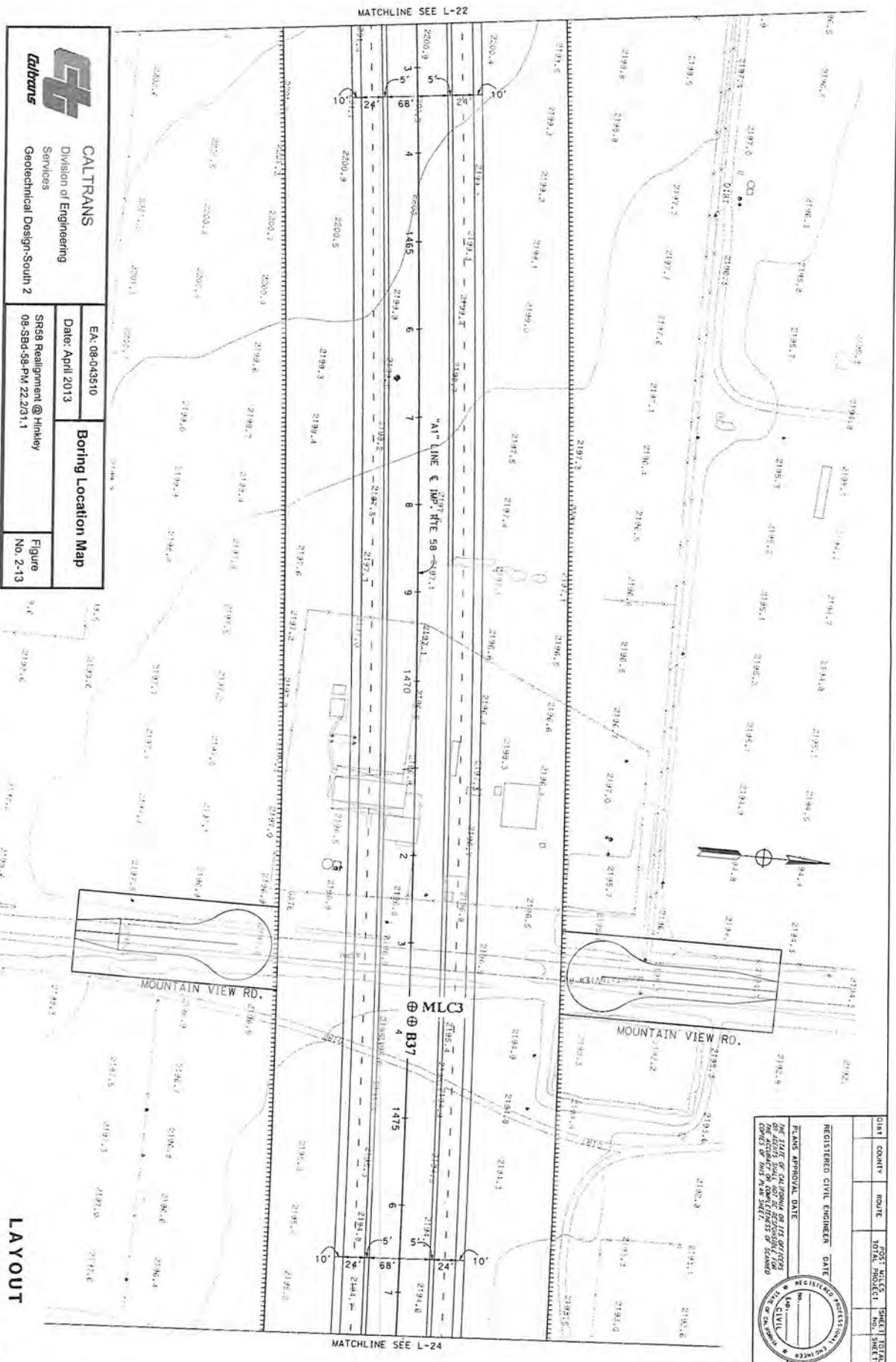
Boring Location Map
Figure No. 2-12



DATE	COUNTY	ROUTE	TOTAL SHEETS	SHEET NO./TOTAL
REGISTERED CIVIL ENGINEER	DATE	REGISTERED PROFESSIONAL ENGINEER	NO. SHEETS	NO. SHEETS
PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICES OR AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN ON THIS PLAN SHEET OR FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE THEREOF.				

LAYOUT
SCALE: 1"=50'
L-21

PROJECT LAST REVISION 7/2/2013
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 Geotechnical Design-South 2

EA: 08-043510
 Date: April 2013
 SR58 Realignment @ Hinkley
 08-SBD-58-PM 22.201.1

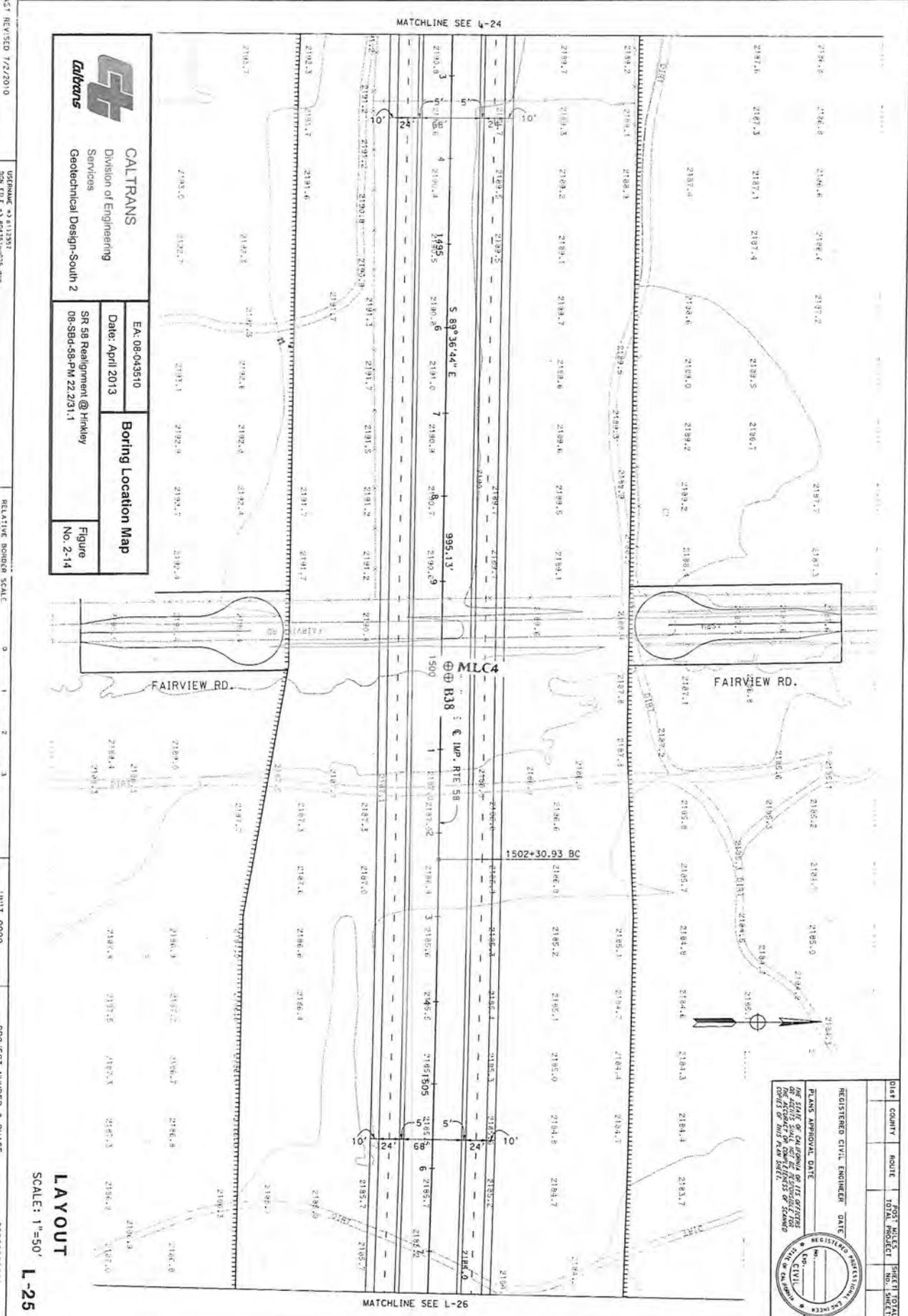
Boring Location Map
 Figure No. 2-13

DATE	COUNTY	ROUTE	TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA ON ITS OFFICERS AND AGENTS IN CONNECTION WITH THE CONTRACTS OF CALTRANS DEPARTMENT OF TRANSPORTATION
 REGISTERED PROFESSIONAL ENGINEER
 No. 10000
 CIVIL ENGINEER
 STATE OF CALIFORNIA

LAYOUT
 SCALE: 1"=50'
L-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY
Caltrans		CHECKED BY	DATE REVISED



DATE PLOTTED => 17-OCT-2012	REGISTERED CIVIL ENGINEER DATE
TIME PLOTTED => 11:24	PLANS APPROVAL DATE



CALTRANS
 Division of Engineering Services
 Geotechnical Design-South 2

EA-08-0435-10
 Date: April 2013
 Boring Location Map

SR 58 Realignment @ Hinkley
 08-S84-58-PM 22.231.1
 Figure No. 2-15

LAYOUT
 SCALE: 1"=50'
 L-27

REGISTERED CIVIL ENGINEER DATE
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA BY ITS OFFICERS
 IN WITNESS WHEREOF THESE OFFICIAL
 COPIES OF THIS PLAN SHEET
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

ORDER LAST REVISED 7/27/2010

USING: 2011/2/27/10
DCM FILE: 2011/2/27/10

RELATIVE ANGLE SCALE
1" = 100'

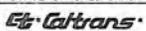
UNIT 0000

PROJECT NUMBER & PHASE

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TIME PLOTTED -> 11:25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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REVISED BY

DATE REVISED

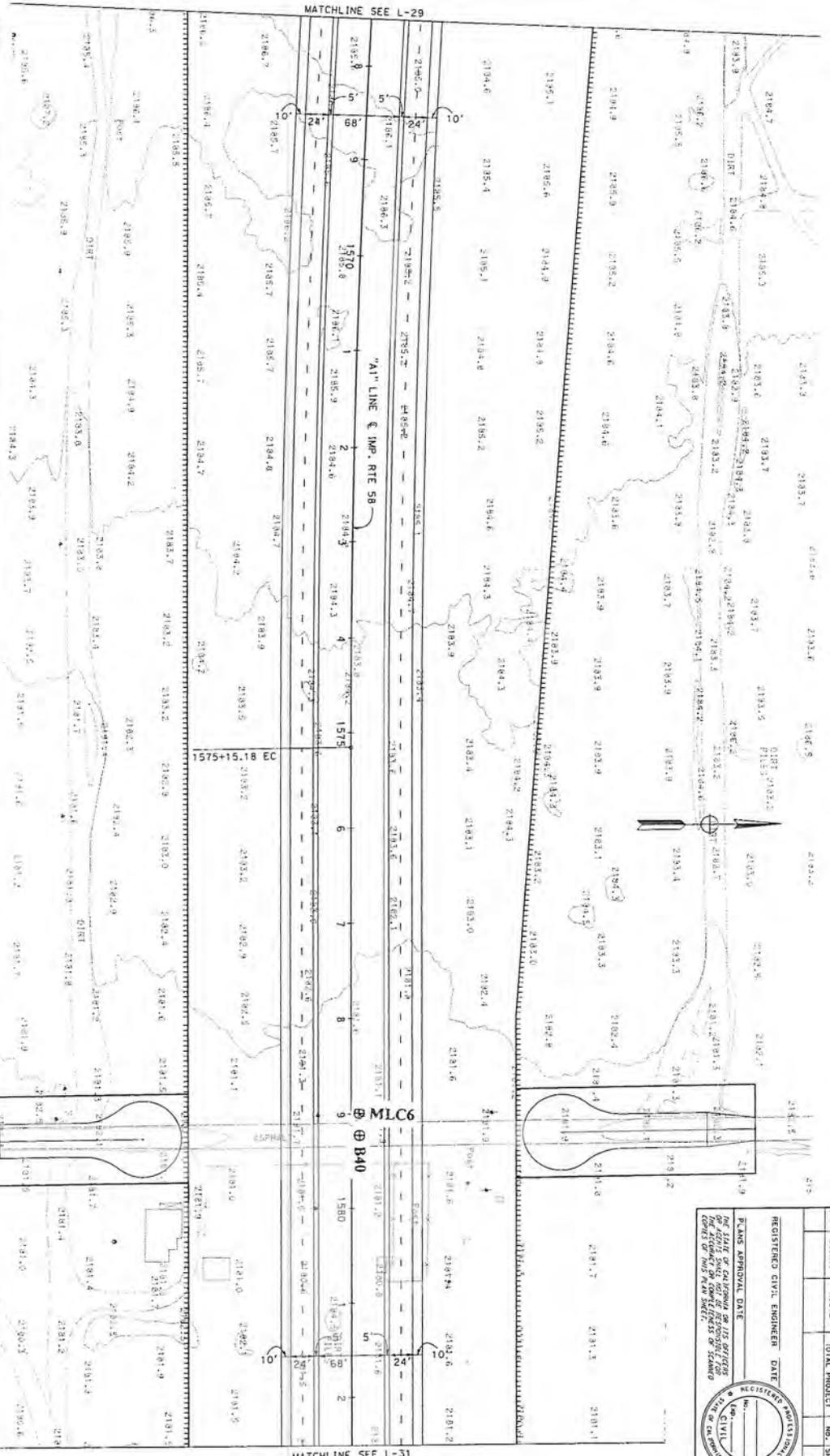
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Services
Geotechnical Design-South 2

EA: 08-043510
Date: April 2013
SR56 Realignment @ Hinkley
08-SR4-58-PM 22.2/31.1

Boring Location Map

Figure No. 2-16



LAYOUT
SCALE: 1"=50'
L-30

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA REGISTERED CIVIL ENGINEER
FOR LICENSE NO. 00000000001
DATE OF EXPIRATION: 00-00-00

REGISTERED PROFESSIONAL ENGINEER
No. 00000000001
CIVIL
STATE OF CALIFORNIA

SHEET NO.	TOTAL SHEETS
NO. 1	1



BORDER LEFT: N. 1/2 1/2 7/2/2010
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 UNIT: 0000
 PROJECT NUMBER & PHASE: 000000000001

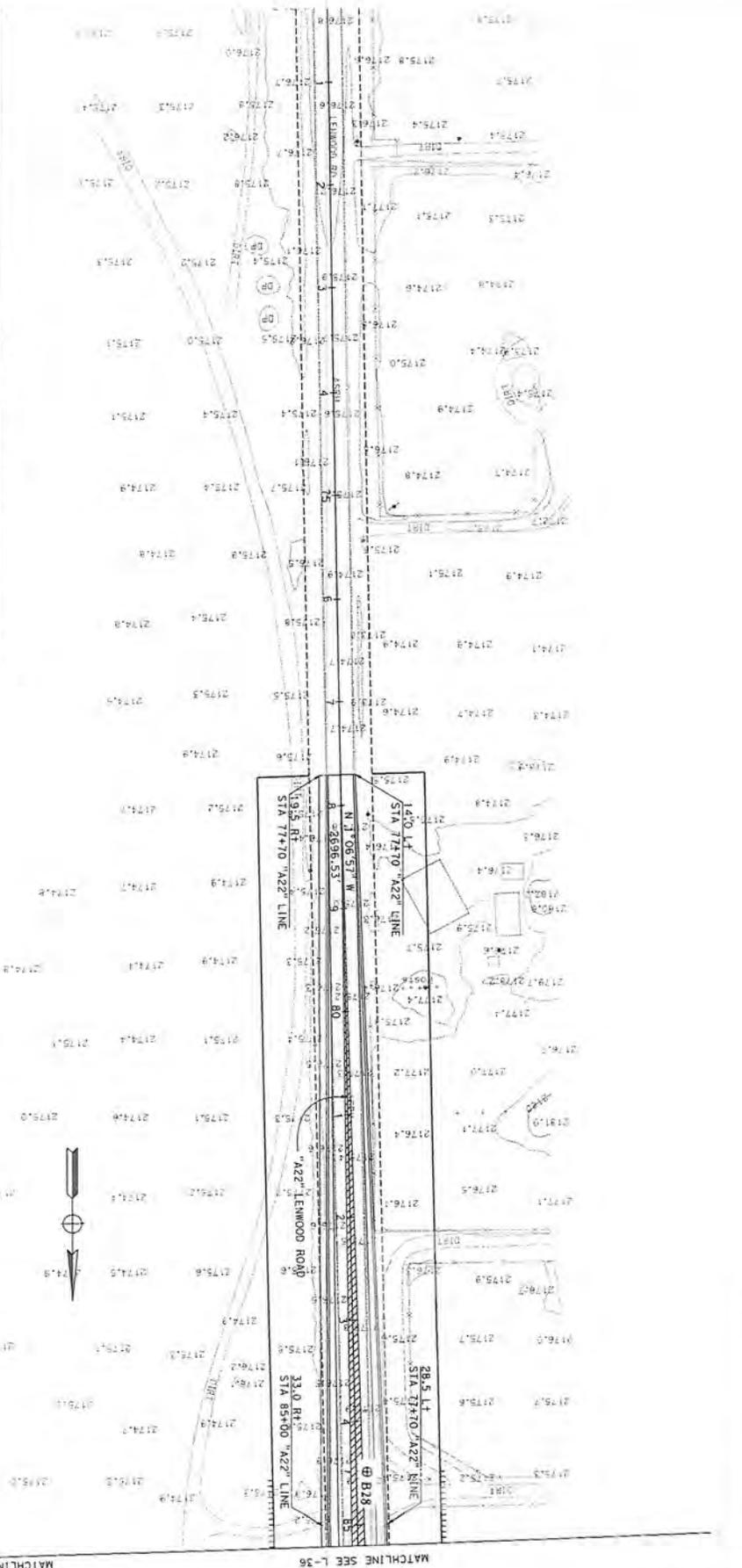
CALTRANS
 Division of Engineering
 Services
 Geotechnical Design-South 2

EA: 08-043510
 Date: April 2013

Boring Location Map

SR 58 Realignment @ Hinkley
 08-SB4-58-PM-22.2/31.1

Figure No. 2-17



DIARY	COUNTY	ROUTE	SHEET TOTAL	SHEET NO.
			TOTAL PROJECT	7

REGISTERED CIVIL ENGINEER DATE: _____

PLANS APPROVAL DATE: _____

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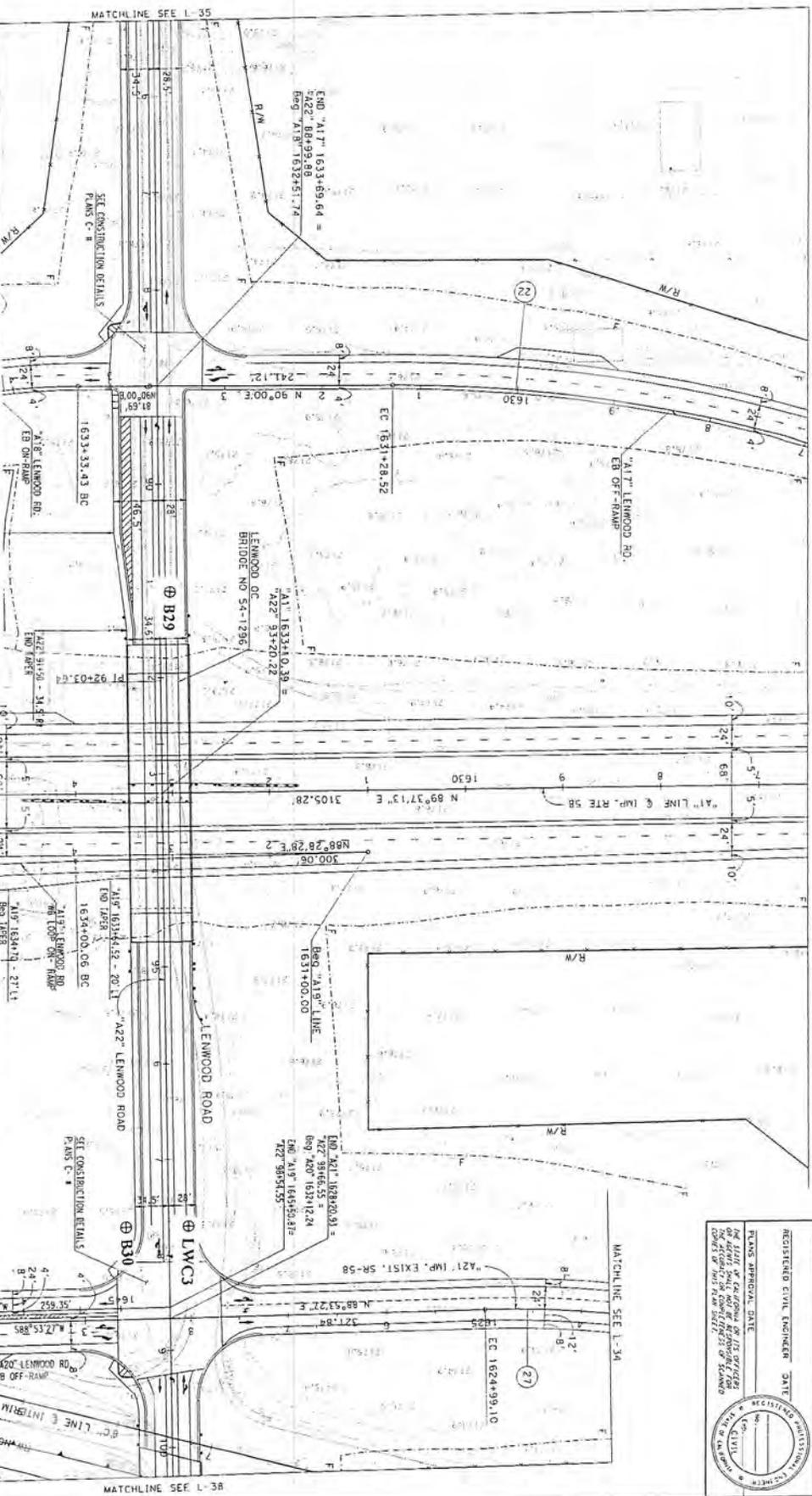
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L-35



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 Services
 Geotechnical Design-South 2

EA-08-043510
 Date: April 2013
 SR 58 Realignment @ Hinkley
 08-SBD-58-PM 22.2/31.1

Boring Location Map
 Figure No. 2-18



MATCHLINE SEE L-33

Dist: COUNTY ROUTE DIST. NUMBER SHEET TOTALS
 08 SBD 58 R22.2/31.1 XX XX
 REGISTERED CIVIL ENGINEER DATE
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 GEOTECHNICAL DESIGN-SOUTH 2

UNIT 2239 PROJECT NUMBER & PHASE
 SCALE: 1"=50'
 LAYOUT L-36
 08000000-01
 DATE PLOTTED: 00-00-00
 TIME PLOTTED: 00-00-00



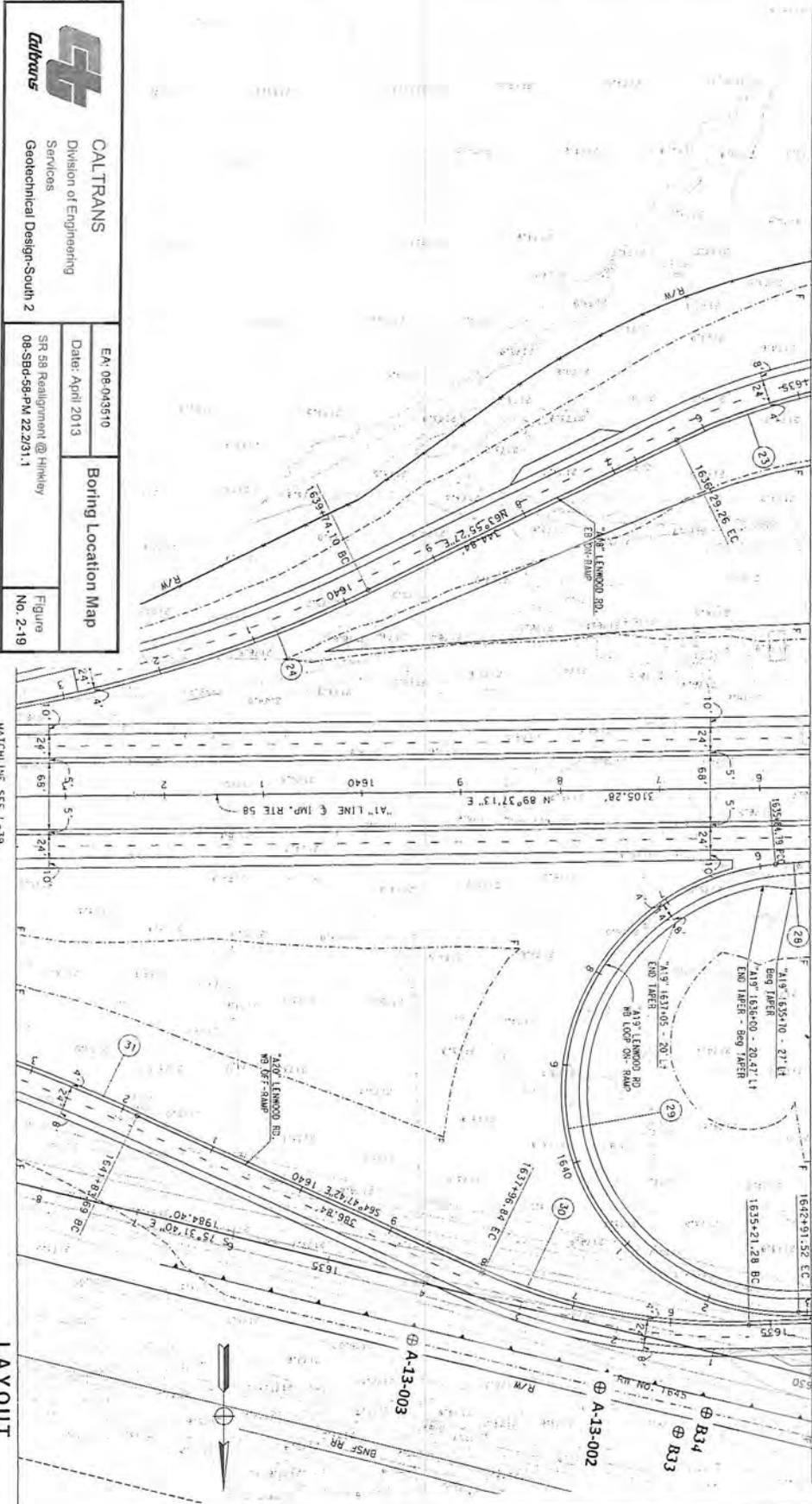
CALTRANS
 Division of Engineering Services
 Geotechnical Design-South 2

EA: 08-043510
 Date: April 2013
 SR 58 Realignment @ Hinkley
 08-SB4-58-PM 22.2/31.1

Boring Location Map
 Figure No. 2-19

CURVE DATA

No.	R	Δ	T	L
23	650'	26°4'34"	150.52'	295.82'
24	1350'	21°10'07"	252.26'	498.78'
29	3000'	3°31'41"	92.39'	184.73'
29	230'	1°6'3'20"	66.19.24'	706.73'
30	600'	26°18'52"	140.26'	275.56'
31	1800'	16°38'31"	234.01'	464.73'



REGISTERED CIVIL ENGINEER
 DATE: []
 PLAN APPROVAL DATE: []
 THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 GEOTECHNICAL DESIGN-SOUTH 2

08 COUNTY ROUTE 58
 SB4 58
 R22.2/31.1

SOFT MILE: []
 SHEET TOTAL: []
 SHEETS: []

