Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	1	681

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN ALAMEDA COUNTY
IN LIVERMORE, DUBLIN AND PLEASANTON
FROM 0.2 MILE EAST OF GREENVILLE ROAD OVERHEAD
TO 0.3 MILE WEST OF HACIENDA DRIVE OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF PLANS

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616-630	ARROYO LAS POSITAS BRIDGE (WIDEN) Br No. 33-0203
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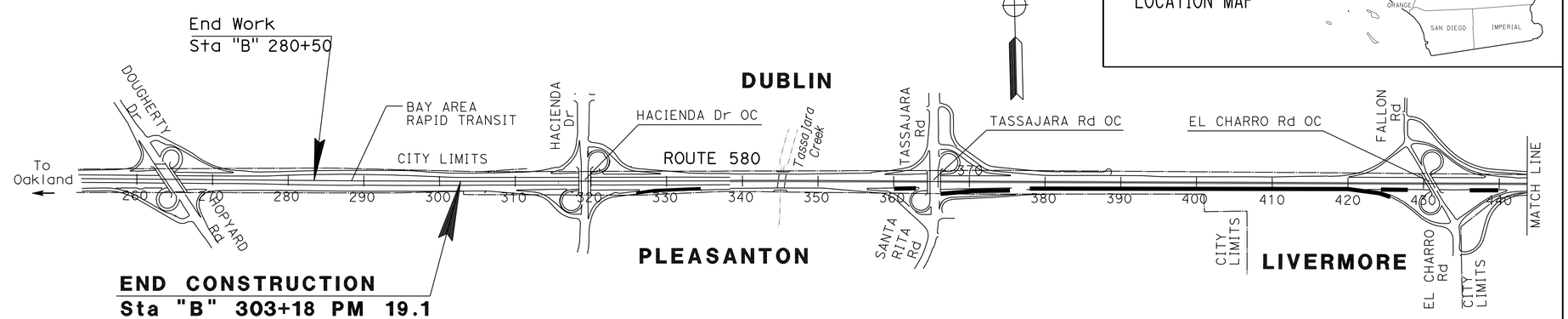
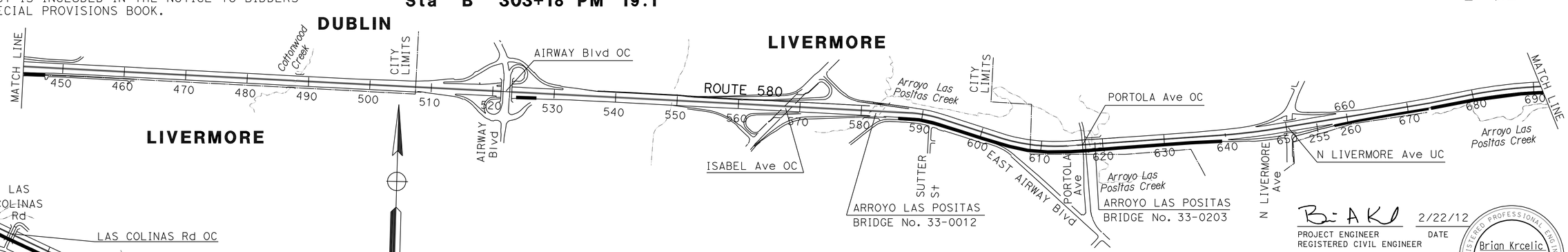
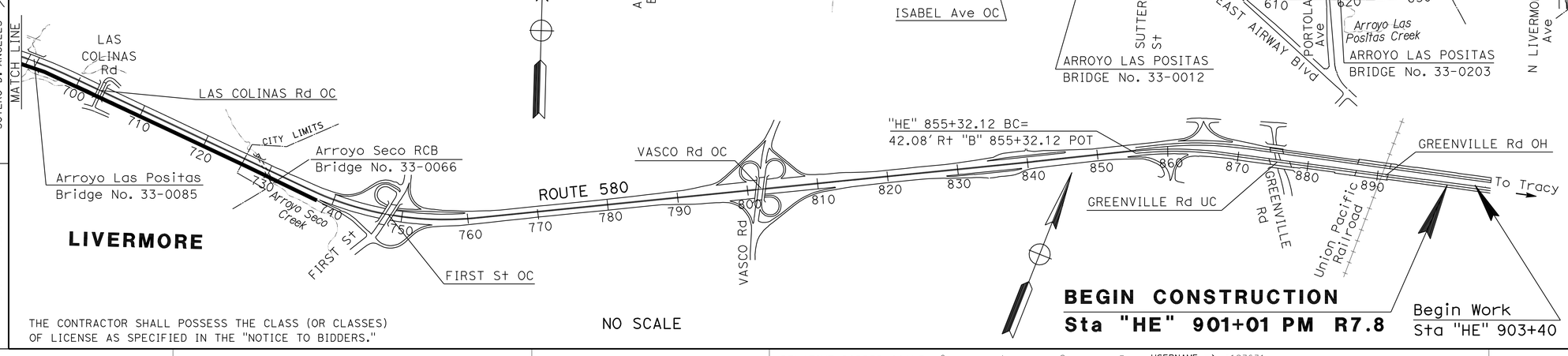
649-658	RETAINING WALL No. 8, Br No. 33E0120
659-666	RETAINING WALL No. 10, Br No. 33E0121
667-681	RETAINING WALL No. 18, Br No. 33E0122

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

LOCATION MAP







THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

APPROVED AS TO IMPACT ON STATE FACILITIES AND CONFORMANCE WITH APPLICABLE STATE STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED.

CALTRANS DESIGN OVERSIGHT APPROVAL: SOTERO D. ANGELES — DATE SIGNED 3/21/12

CONSULTANT DESIGN ENGINEER: BRIAN KRCELIC — REGISTRATION No. C53896 — LICENSE Exp DATE 12/31/13

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 2/22/12

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 STATE OF CALIFORNIA

PLANS APPROVAL DATE May 21, 2012

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ALAMEDA COUNTY TRANSPORTATION COMMISSION
1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

CONTRACT No.	04-2908V4
PROJECT ID	0412000405

LAST REVISION 2-22-12 — DATE PLOTTED => 21-MAY-2012 — TIME PLOTTED => 13:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	2	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE Std SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. SEE LAYOUT PLANS FOR LOCATION OF HMA DIKE, Conc BARRIER AND MBGR.
4. FOR SAW CUT DETAIL SEE DETAIL A ON SHEET X-3.
5. SEE CONSTRUCTION DETAILS FOR PLACEMENT OF AREA CONTAINING AERIALLY DEPOSITED LEAD.
6. SEE RETAINING WALL PLANS FOR CONCRETE BARRIER TYPES AT RETAINING WALLS.
7. SEE EDGE DRAIN SHEETS FOR LOCATION OF EDGE DRAIN.
8. FOR COLD PLANE AND OVERLAY CONFORM DETAILS SEE CONSTRUCTION DETAILS.
9. FOR LOCATION, LIMITS AND DETAILS OF MVP, SEE LAYOUTS AND CONSTRUCTION DETAILS.
10. FOR LOCATIONS AND LIMITS OF COLD PANE AC Pvmt, SEE LAYOUTS AND SUMMARY OF QUANTITIES SHEETS.
11. FOR LOCATION , LIMITS AND DETAILS OF THE TEMPORARY CREEK DIVERSION SYSTEM SEE SHEETS C-4 THROUGH C-7.
12. PRIME COAT MUST BE APPLIED ON ALL UNTREATED BASE MATERIALS BEFORE PLACING HMA-A.
13. FOR UNDERDRAIN LOCATION, LIMITS AND DETAILS SEE SUBSURFACE DRAINAGE PLANS AND DRAINAGE DETAILS.
14. EXTEND 0.20' OF THE TOP LAYER OF HMA-A OR THE 0.15' LAYER OF THE RHMA-G PLACED ON THE SHOULDER UNDER THE DIKES WITH NO JOINT AT THE ES. SEE Std PLANS A87B FOR DETAIL.
15. HMA SURFACING AND BASE LAYERS MAY NEED ADJUSTMENT TO ALLOW ELEVATION OF NEW ATPB LAYER TO MATCH THE ELEVATION OF THE Exist ATPB LAYER.

PAVEMENT STRUCTURAL SECTIONS:

[1] 0.15' RHMA-G
0.60' HMA-A
0.80' LCB
2.00' Cl 4 AS
SEG

[2] 0.15' RHMA-G
Var 0.10' TO 0.15' HMA-A
(CROSS SLOPE CORRECTION)
COLD PLANE AC Pvmt
(SEE DETAIL B ON X-12)

[3] 0.10' HMA-O

[4] 0.15' RHMA-G
0.35' HMA-A
2.10' LCB

[5] 0.25' VEGETATION CONTROL
(MINOR CONCRETE)

[6] 0.35' Conc Pvmt
0.50' Cl 3 AB

[7] 0.15' RHMA-G
2.35' HMA-A

[8] 0.3' HMA-A

[9] 0.15' RHMA-G
0.60' HMA-A
0.25' ATPB
0.90' LCB
1.50' Cl 4 AS
SEG

DESIGN DESIGNATION (ROUTE 580):

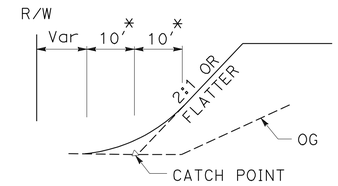
MAINLINE TI=15.5, R-VALUE=5
RAMPS TI=10.0, R-VALUE=5
V DESIGN = 70 mph

ABBREVIATIONS:

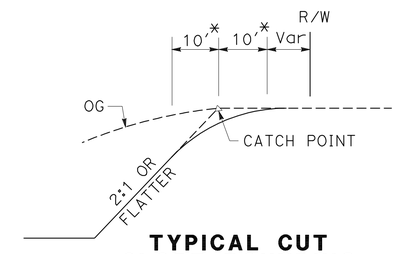
BART	BAY AREA RAPID TRANSIT
CTS	CEMENT TREATED SUBBASE
GB	GRADE BREAK
HMA-A	HOT MIX ASPHALT - TYPE A
HMA-O	HOT MIX ASPHALT - OPEN GRADED
HOV	HIGH OCCUPANCY VEHICLE
RAC	RUBBERIZED ASPHALT CONCRETE
RHMA-G	RUBBERIZED HOT MIX ASPHALT - GAP GRADED
MVP	MAINTENANCE VEHICLE PULLOUT
SEG	SUBGRADE ENHANCEMENT GEOTEXTILE
TCE	TEMPORARY CONSTRUCTION EASEMENT
PFE	PERMANENT FOOTING EASEMENT
SN/TBW	SOILNAIL/TIEBACK WALL EASEMENT

LEGEND:

COLD PLANE AC PAVEMENT

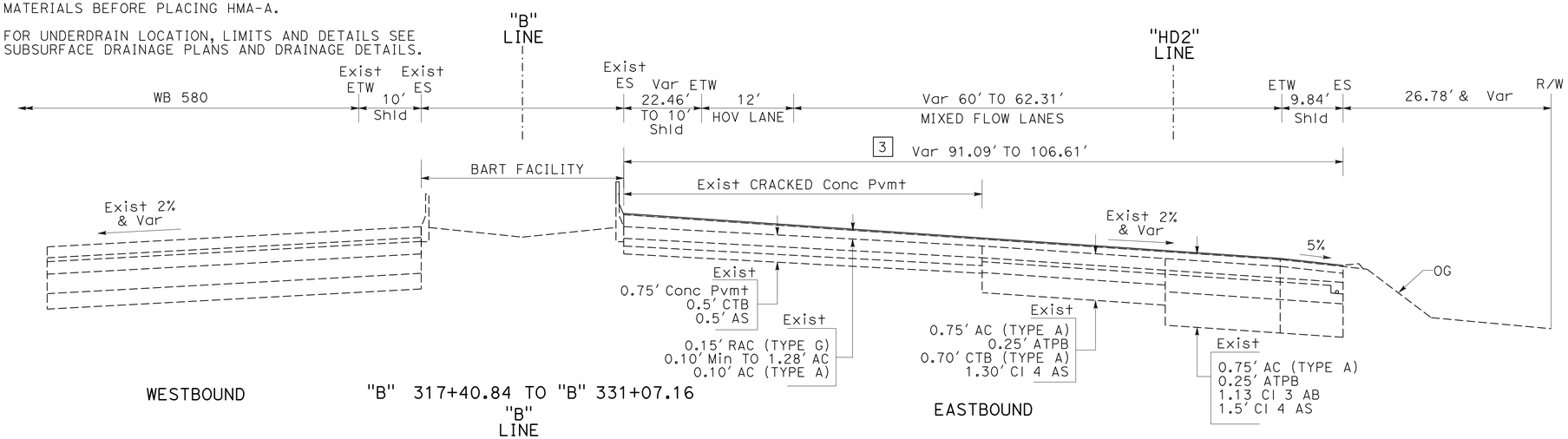


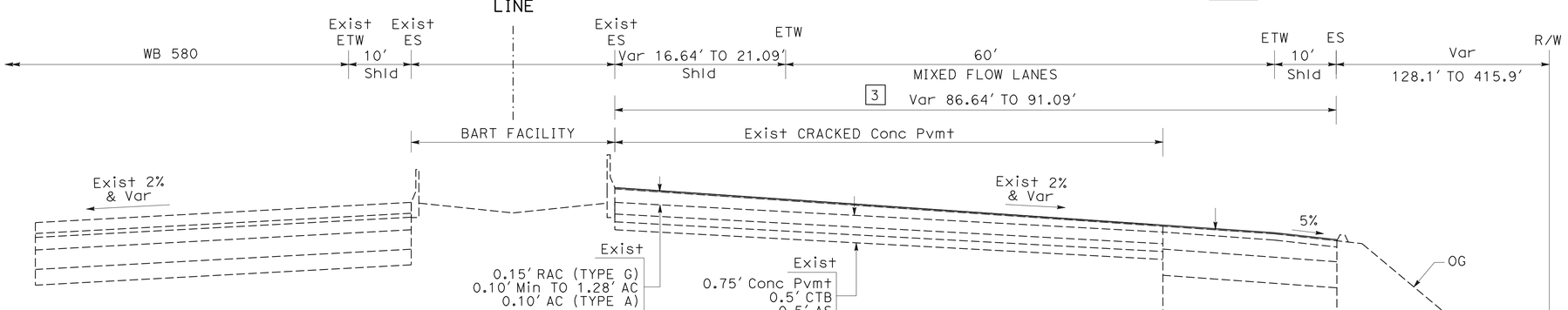
TYPICAL FILL SLOPE ROUNDING



TYPICAL CUT SLOPE ROUNDING

*SPACE PERMITTING OR AS INSTRUCTED BY THE ENGINEER





ROUTE 580

TYPICAL CROSS SECTION

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 22-MAY-2012
TIME PLOTTED => 15:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	3	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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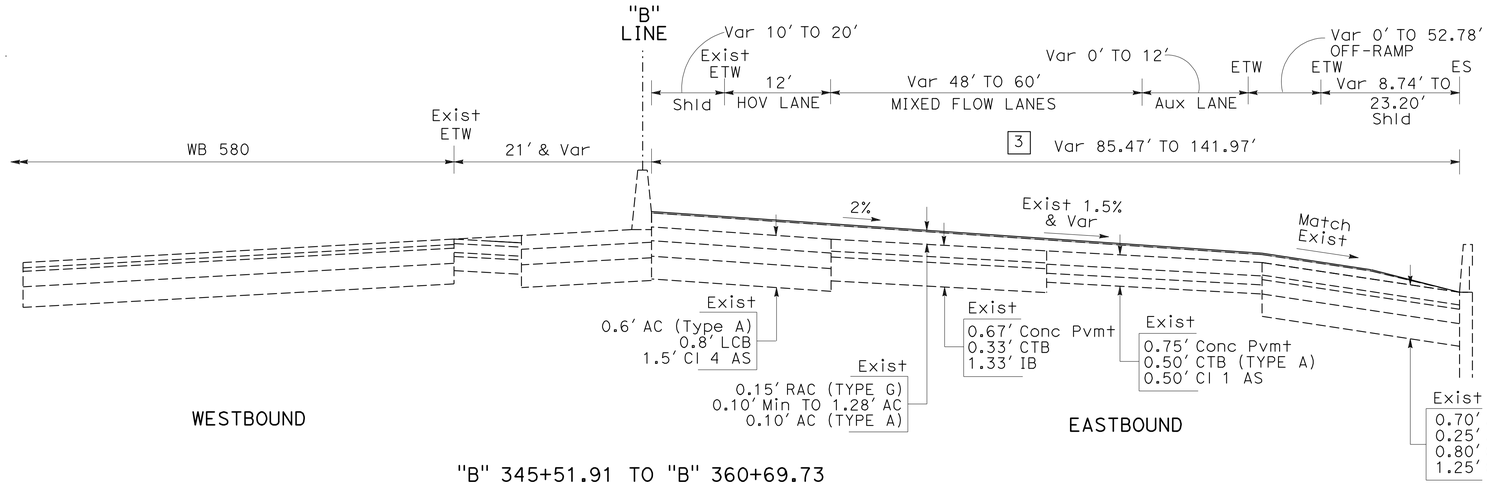
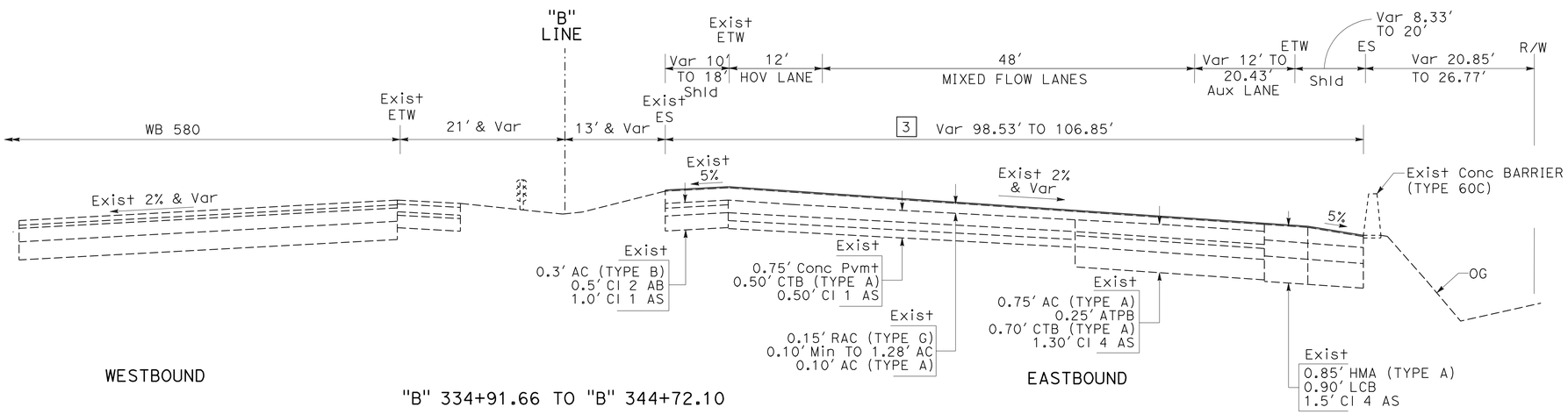
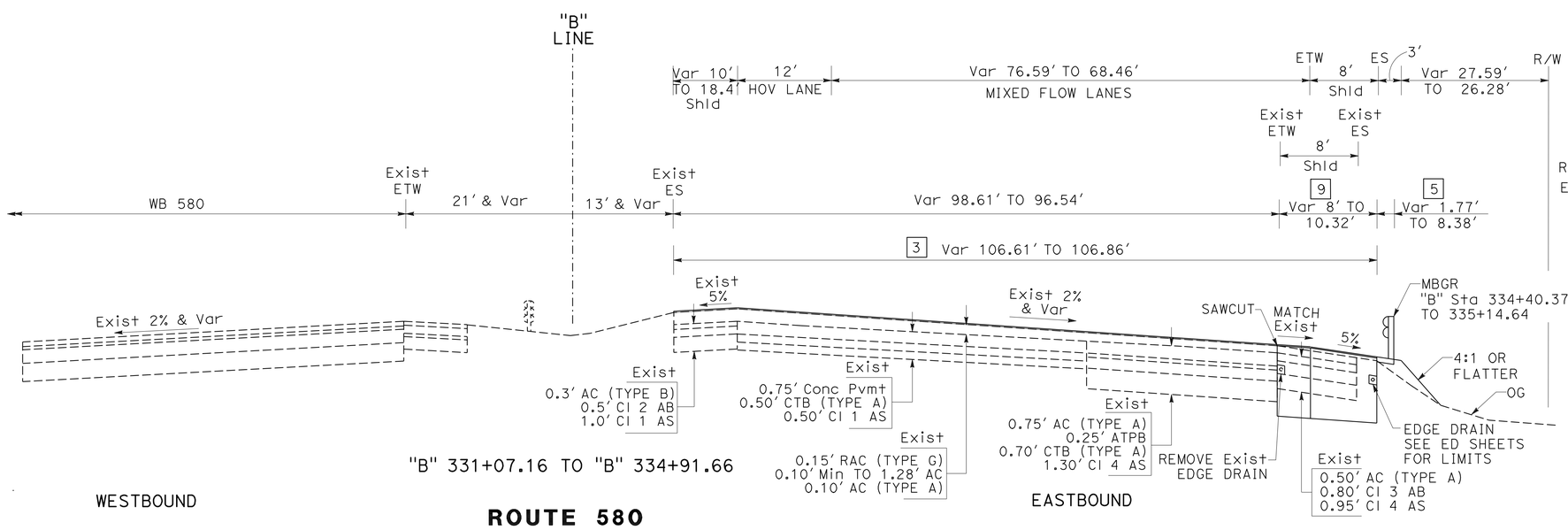


"B" 345+51.91 TO "B" 360+69.73

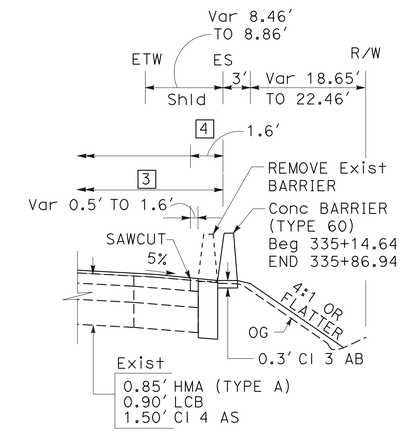


"B" 334+91.66 TO "B" 344+72.10

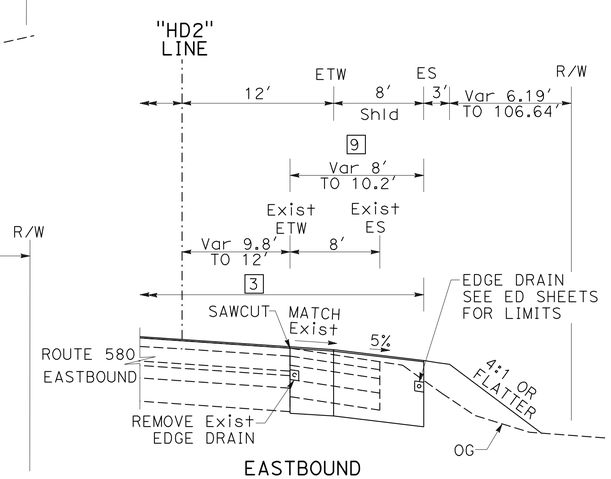


"B" 331+07.16 TO "B" 334+91.66

ROUTE 580



"B" 334+91.66 TO "B" 335+86.94



HACIENDA DIAGONAL ON-RAMP

"HD2" 231+68.68 TO "HD2" 232+55.80

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

TYPICAL CROSS SECTION

NO SCALE

X-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	4	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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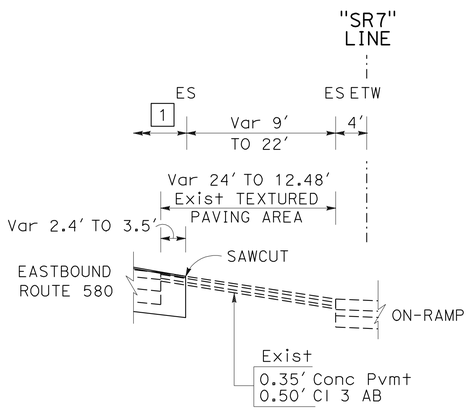
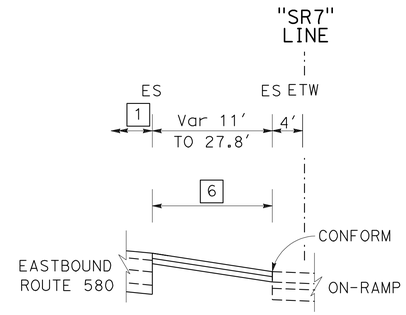
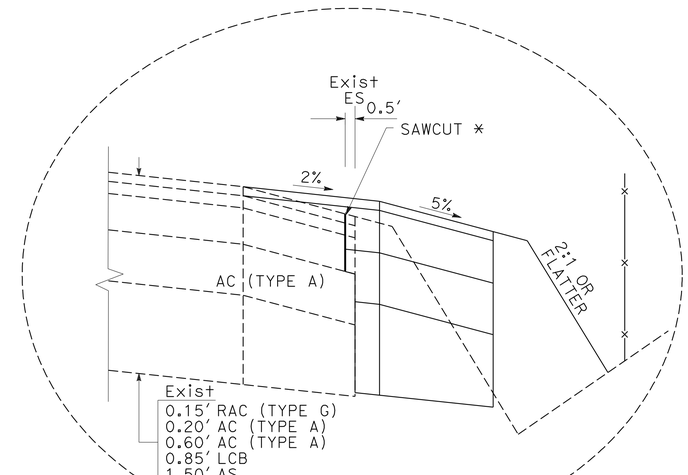


"B" 363+32.60 TO "B" 364+82.70



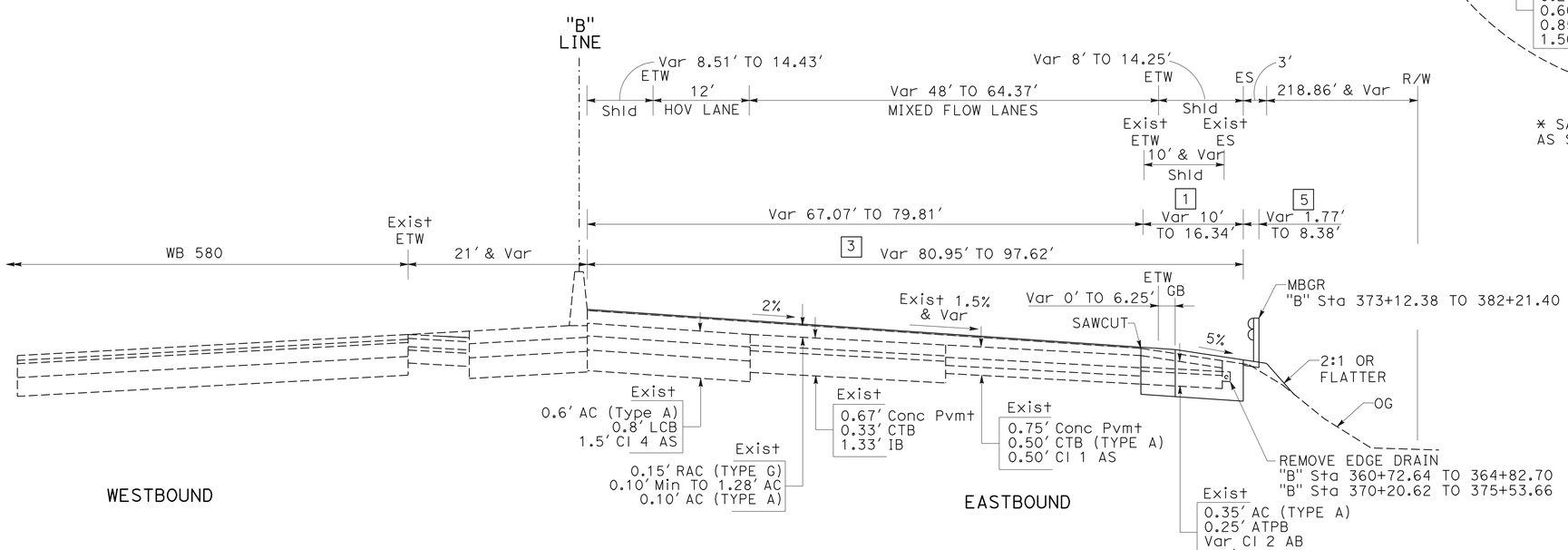
TEXTURED PAVING

EASTBOUND
"B" 372+50.47 TO "B" 375+53.66



DETAIL "A"
(TYPICAL)

* SAWCUT TO BOTTOM OF EXISTING AC DEPTH AS SHOWN ON THIS DETAIL AND TYPICAL SECTION



"B" 360+69.73 TO "B" 364+82.70
"B" 368+03.20 TO "B" 375+53.66
"B" 380+72.64 TO "B" 382+21.40

ROUTE 580

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

TYPICAL CROSS SECTION

NO SCALE

X-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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REVISED BY
DATE REVISED

LAST REVISION 2-22-12 | DATE PLOTTED => 21-MAY-2012 | TIME PLOTTED => 10:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	5	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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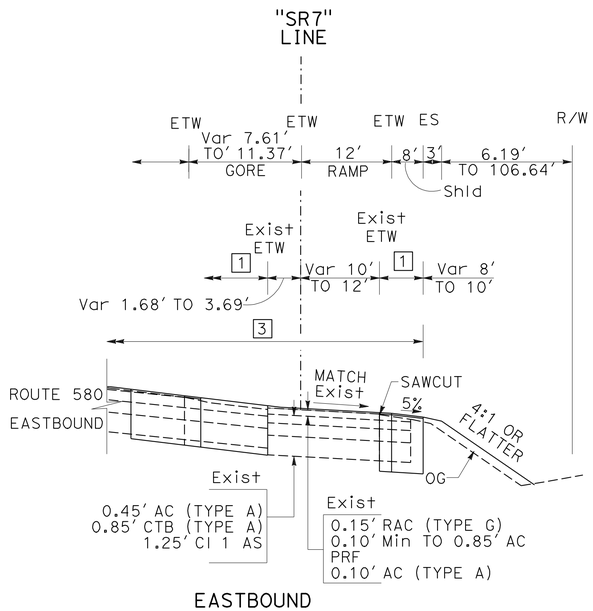
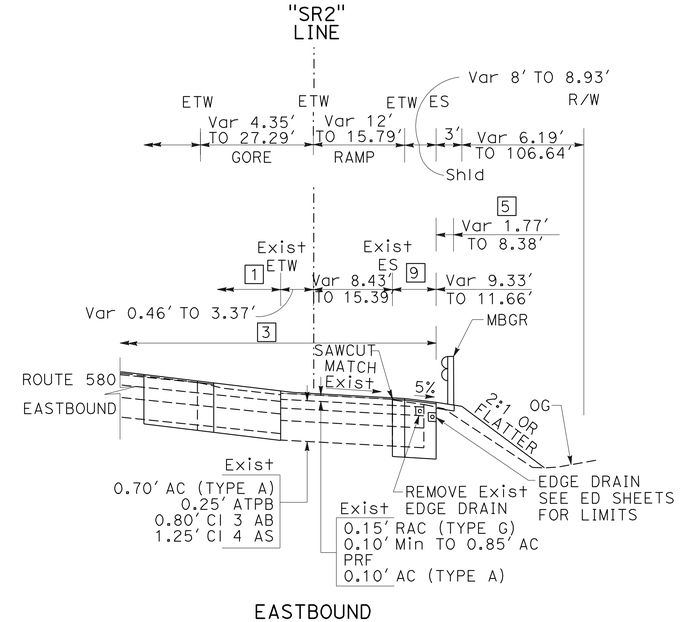


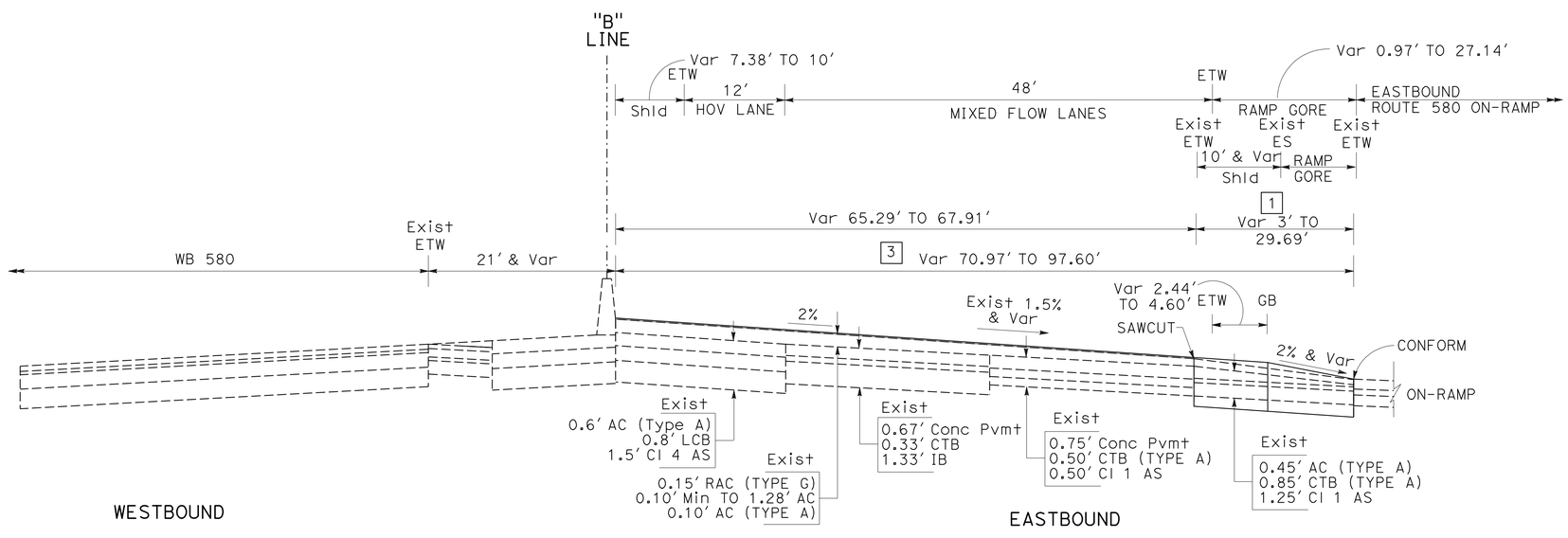
SANTA RITA ROAD LOOP ON-RAMP

"SR7" 766+76.75 TO "SR7" 768+03.23



SANTA RITA ROAD DIAGONAL ON-RAMP

"SR2" 275+58.18 TO "SR2" 280+72.77



"B" 364+82.70 TO "B" 368+03.20
"B" 375+53.66 TO "B" 380+72.64

ROUTE 580

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

TYPICAL CROSS SECTION

NO SCALE

X-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
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REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	6	681

REGISTERED CIVIL ENGINEER — DATE 2/22/12

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Brian Krcelic — No. C33203 — Exp. 06/30/12 — CIVIL — STATE OF CALIFORNIA

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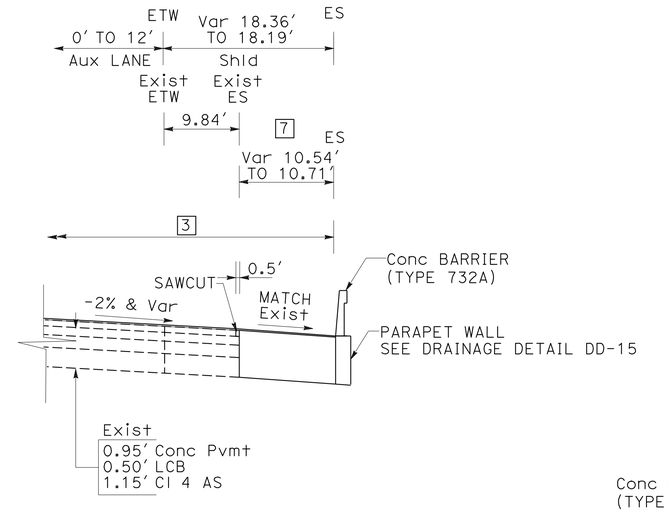
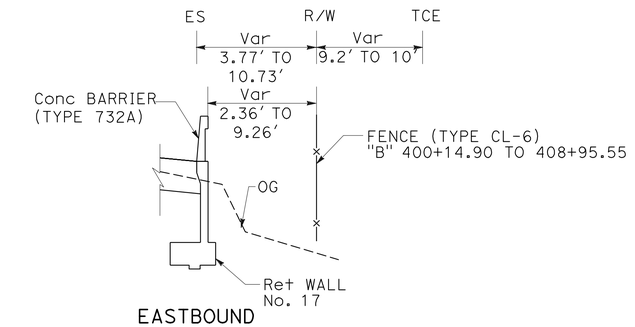


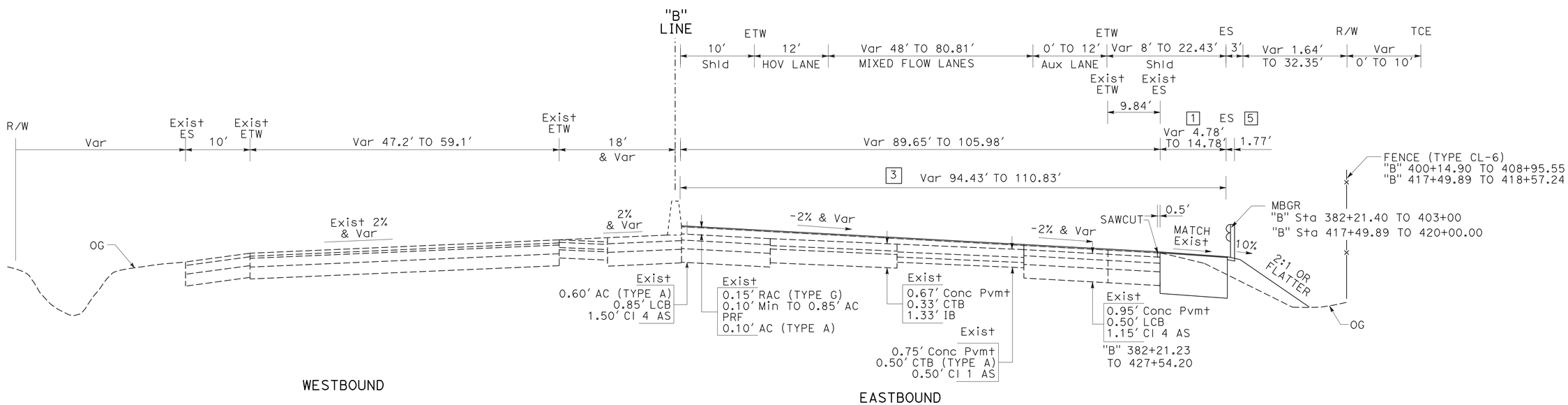
EASTBOUND

"B" 406+13.63 TO "B" 406+31.20



EASTBOUND

"B" 403+00.00 TO "B" 408+13.63
"B" 408+31.20 TO "B" 417+49.89



WESTBOUND

EASTBOUND

"B" 382+21.40 TO "B" 421+85.31

ROUTE 580

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

TYPICAL CROSS SECTION

NO SCALE

X-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI

CHECKED BY: NABAZ SAIEED

REVISED BY

DATE REVISED

LAST REVISION 2-22-12 | DATE PLOTTED => 21-MAY-2012 | TIME PLOTTED => 10:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	7	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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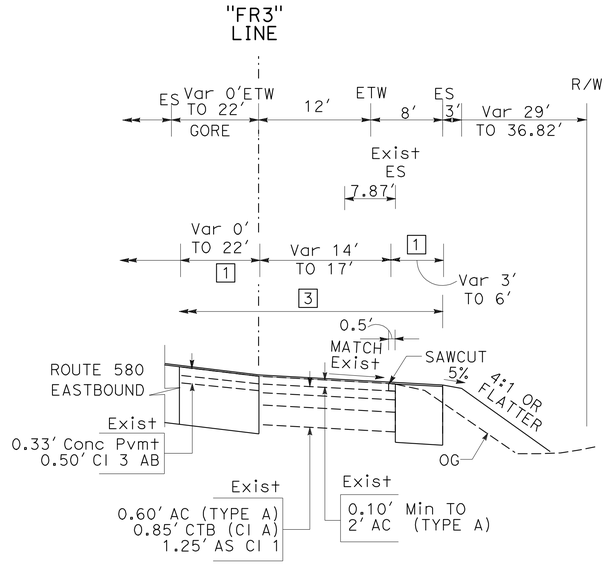
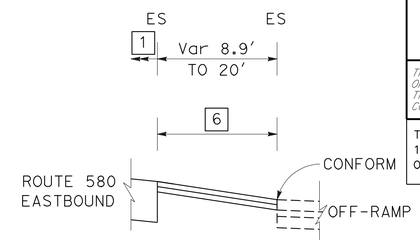


EASTBOUND

FALLON ROAD OFF-RAMP

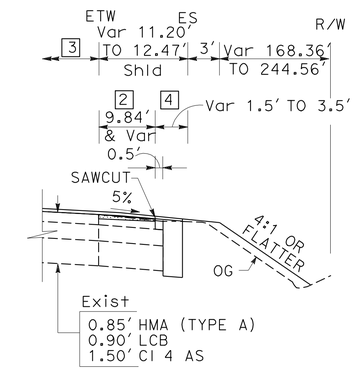
"FR3" 320+56.97 TO "FR3" 324+70.23



TEXTURED PAVING

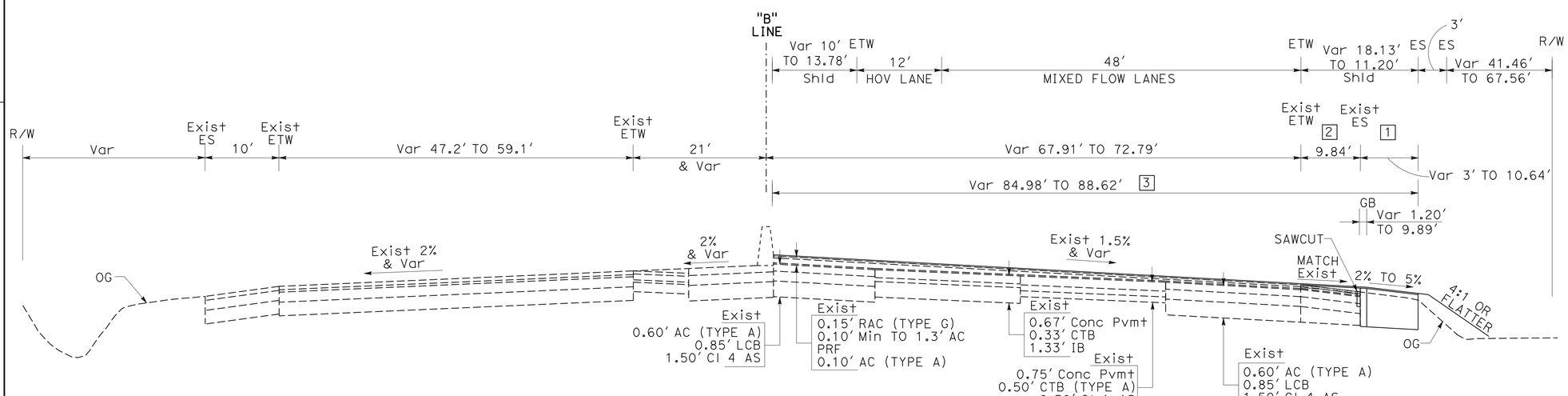
EASTBOUND

"B" 323+26.66 TO "B" 324+05.48



EASTBOUND

"B" 426+31.59 TO "B" 427+54.23



WESTBOUND

"B" 421+85.31 TO "B" 427+54.23

EASTBOUND

ROUTE 580

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

TYPICAL CROSS SECTION

NO SCALE

X-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	8	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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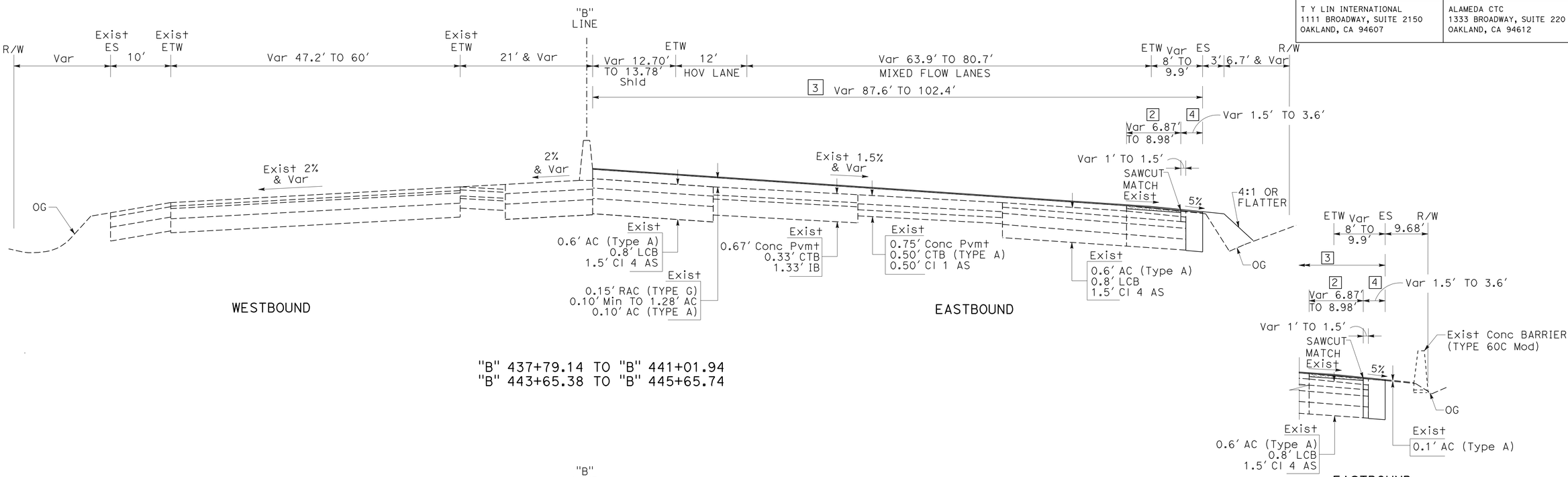
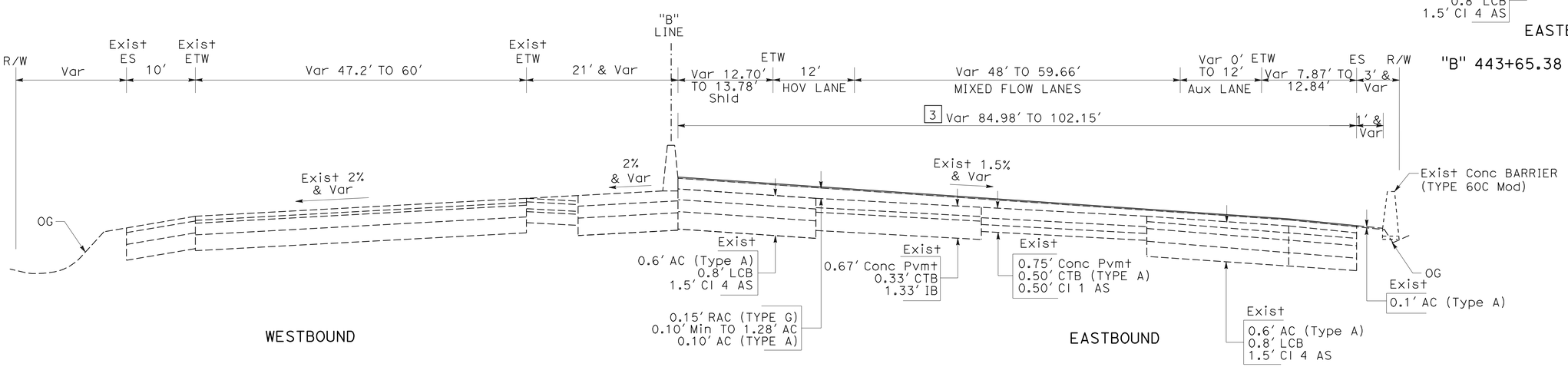


"B" 437+79.14 TO "B" 441+01.94
"B" 443+65.38 TO "B" 445+65.74

"B" 443+65.38 TO "B" 445+65.74



"B" 427+54.23 TO "B" 437+79.14
"B" 441+01.94 TO "B" 443+65.38

ROUTE 580

TYPICAL CROSS SECTION

NO SCALE

X-7

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

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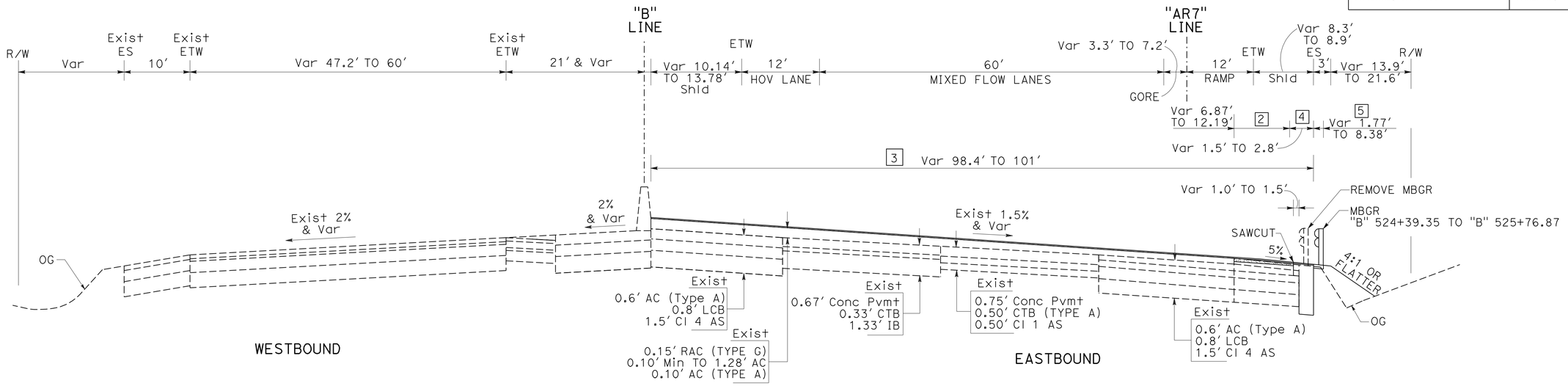
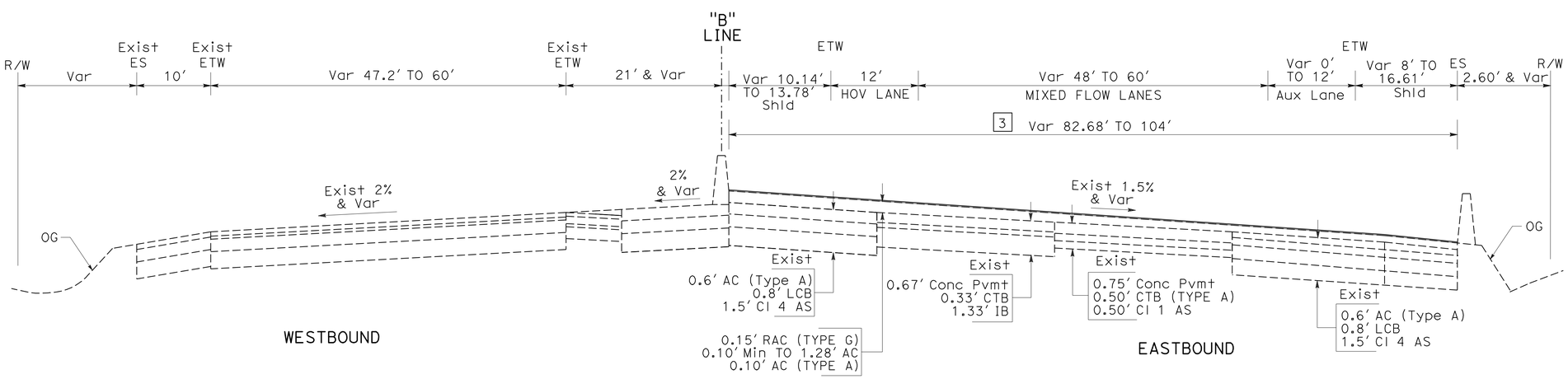


"B" 524+01.65 TO "B" 526+69.11



"B" 445+65.74 TO "B" 520+73.08
"B" 523+71.27 TO "B" 524+01.65
"B" 526+69.11 TO "B" 581+60.32
"B" 582+86.70 TO "B" 584+33.64

ROUTE 580

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

TYPICAL CROSS SECTION

NO SCALE

X-8

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REGISTERED CIVIL ENGINEER — DATE 2/22/12

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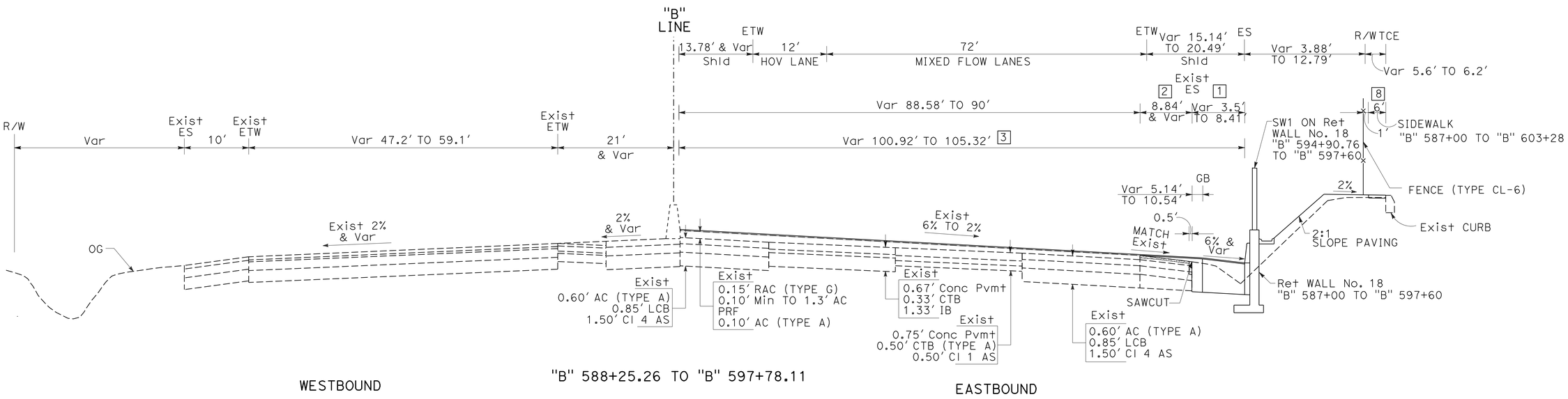

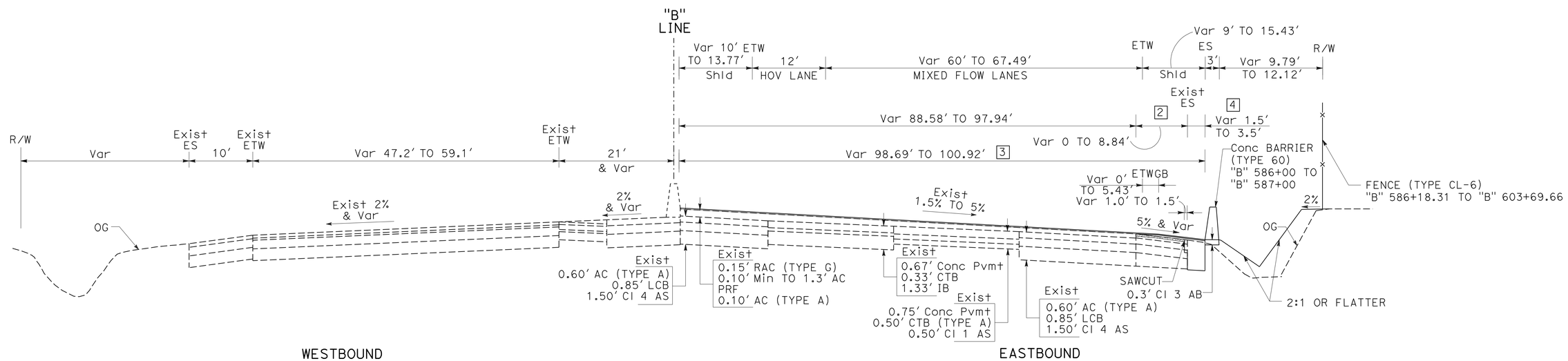

ROUTE 580

TYPICAL CROSS SECTION

NO SCALE

X-9

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

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04	Ala	580	R7.8/19.1	11	681

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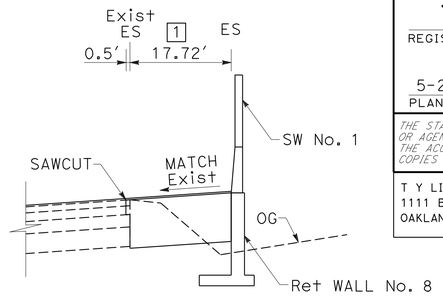
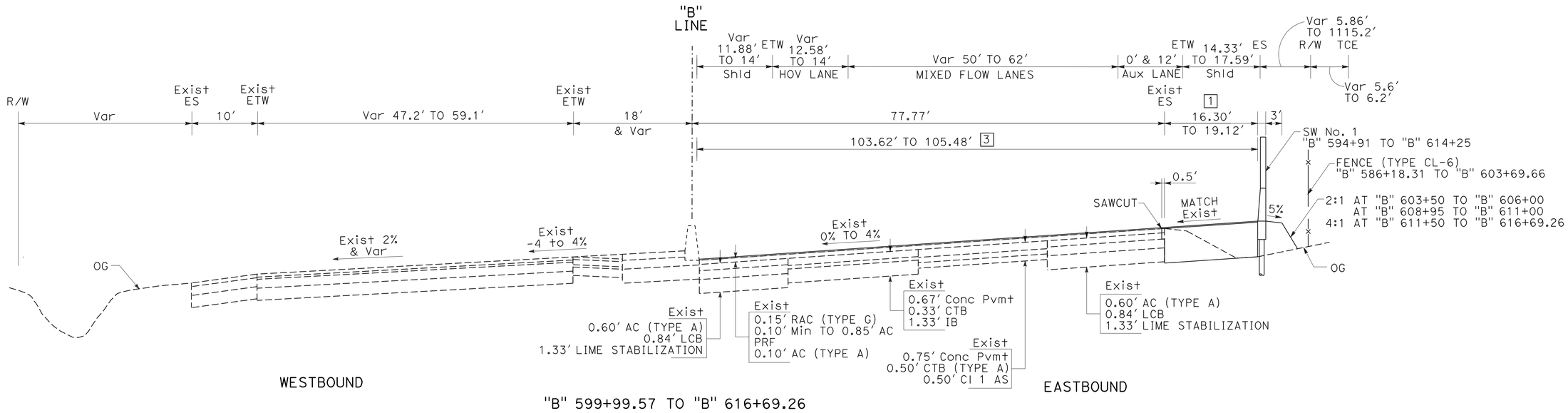
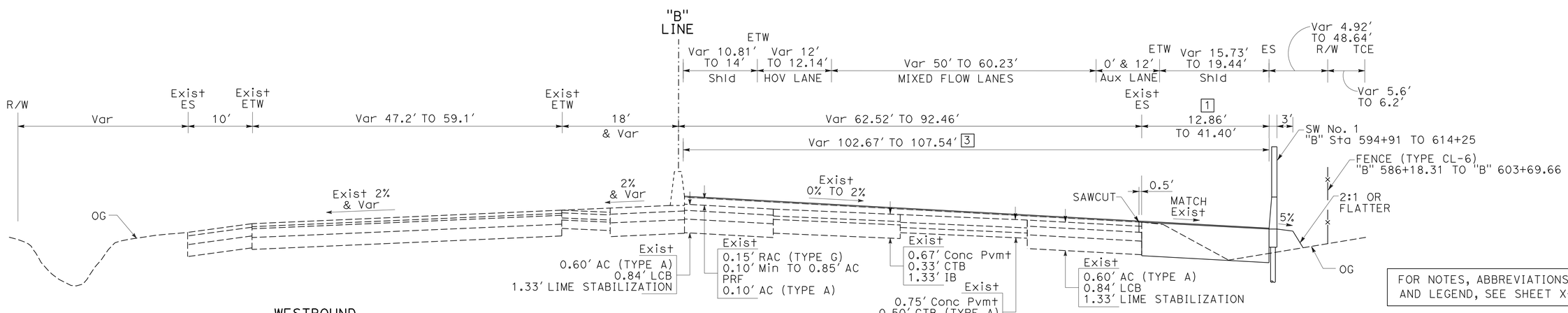


"B" 606+00 TO "B" 608+95.48



"B" 599+99.57 TO "B" 616+69.26



"B" 597+78.11 TO "B" 599+99.57
"B" 616+69.26 TO "B" 618+04.86

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

ROUTE 580

TYPICAL CROSS SECTION

NO SCALE

X-10

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REGISTERED CIVIL ENGINEER 2/22/12 DATE

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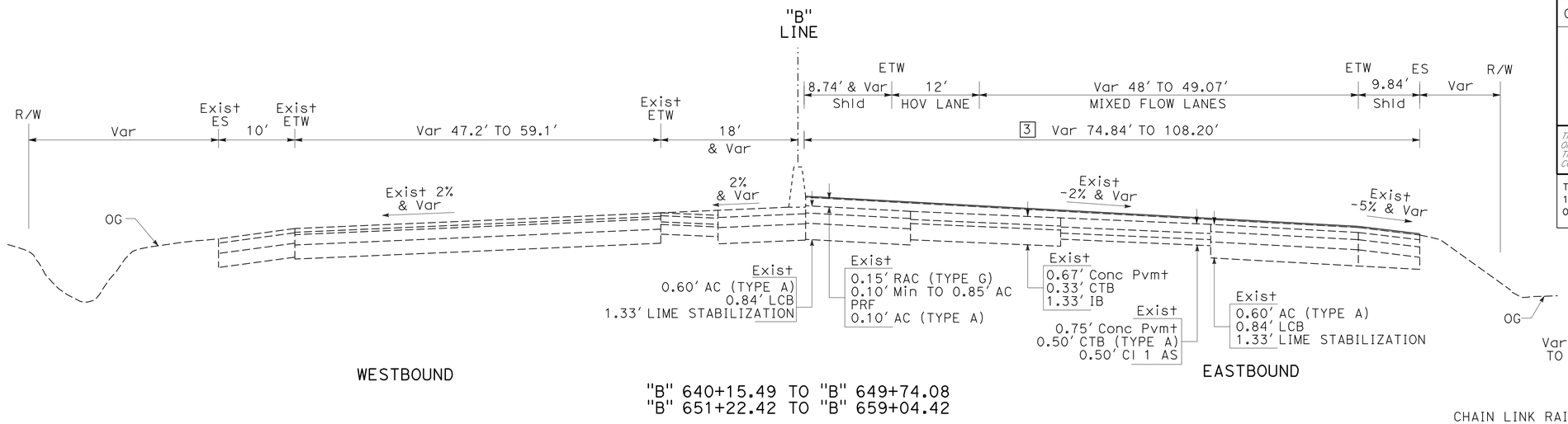
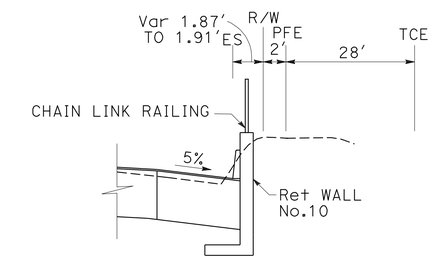
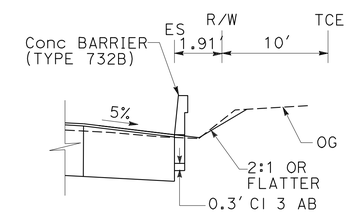


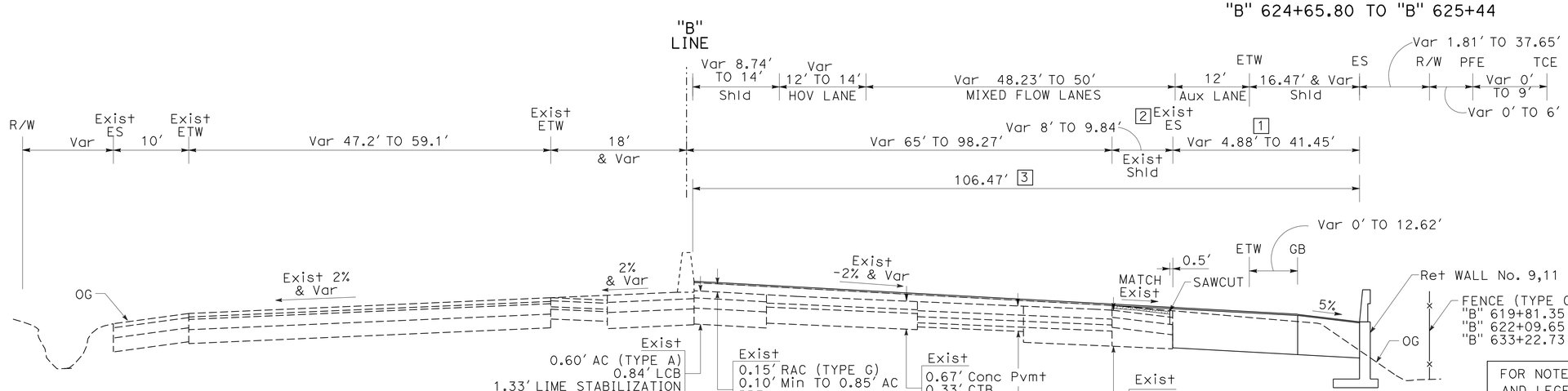
"B" 640+15.49 TO "B" 649+74.08
"B" 651+22.42 TO "B" 659+04.42



"B" 625+44 TO "B" 628+27



"B" 624+65.80 TO "B" 625+44



"B" 619+62.86 TO "B" 640+15.49

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

TYPICAL CROSS SECTION

NO SCALE

ROUTE 580

X-11

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04	Ala	580	R7.8/19.1	13	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
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REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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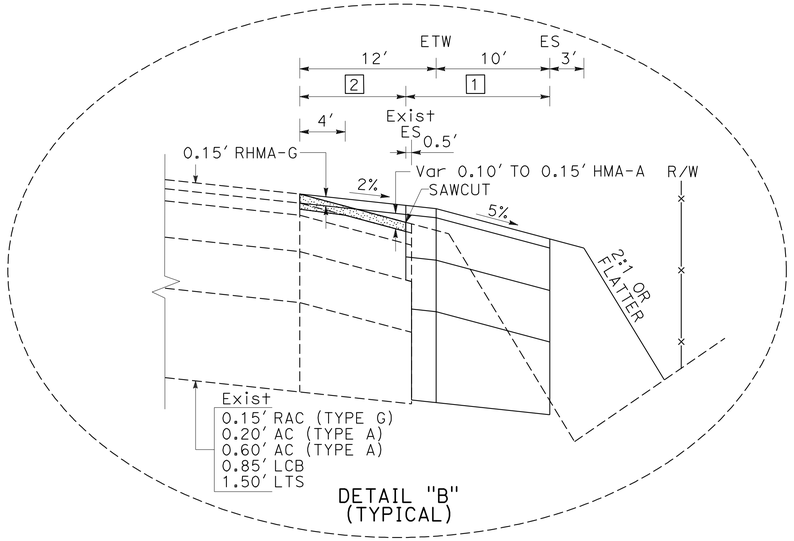
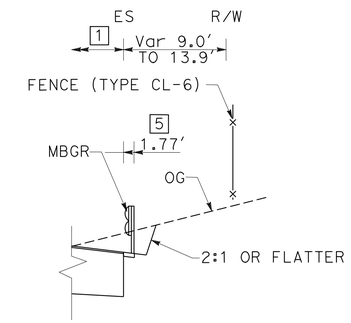


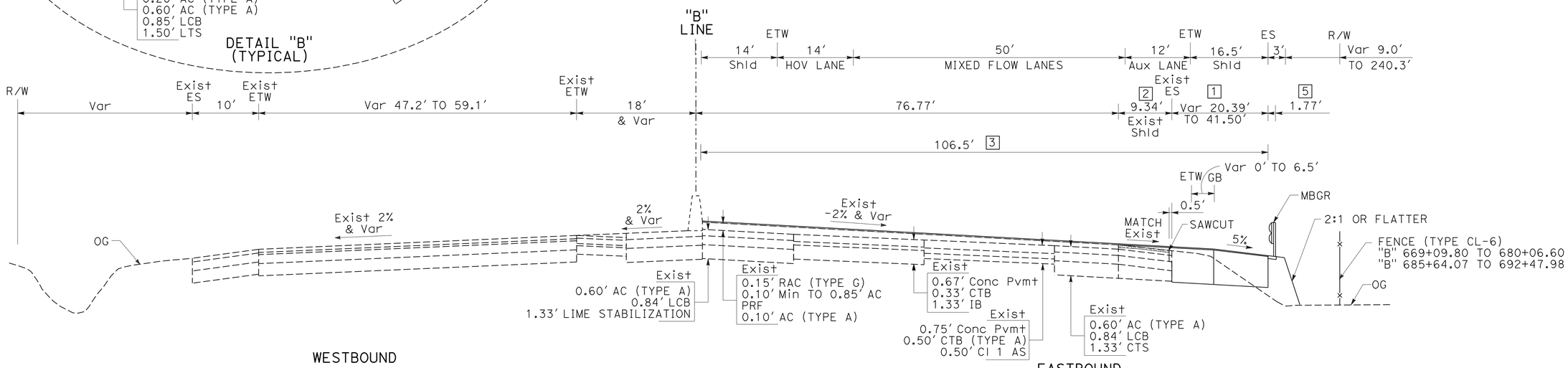
DETAIL "B"
(TYPICAL)

LEGEND:

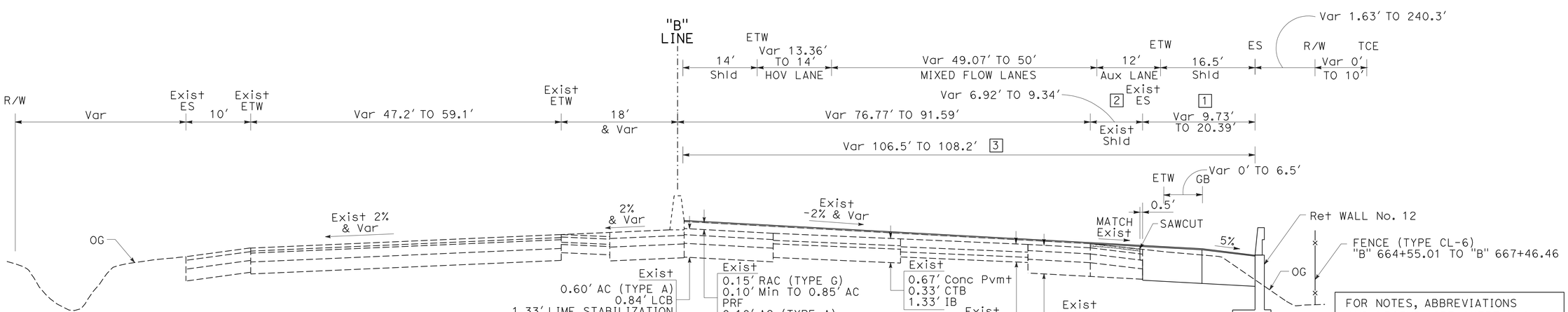
COLD PLANE AC PAVEMENT (Var 0.10′ TO 0.15′)



"B" 689+50 TO "B" 691+72.78



"B" 669+20.75 TO "B" 691+72.78



"B" 659+04.42 TO "B" 669+20.75

ROUTE 580

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

TYPICAL CROSS SECTION

NO SCALE

X-12

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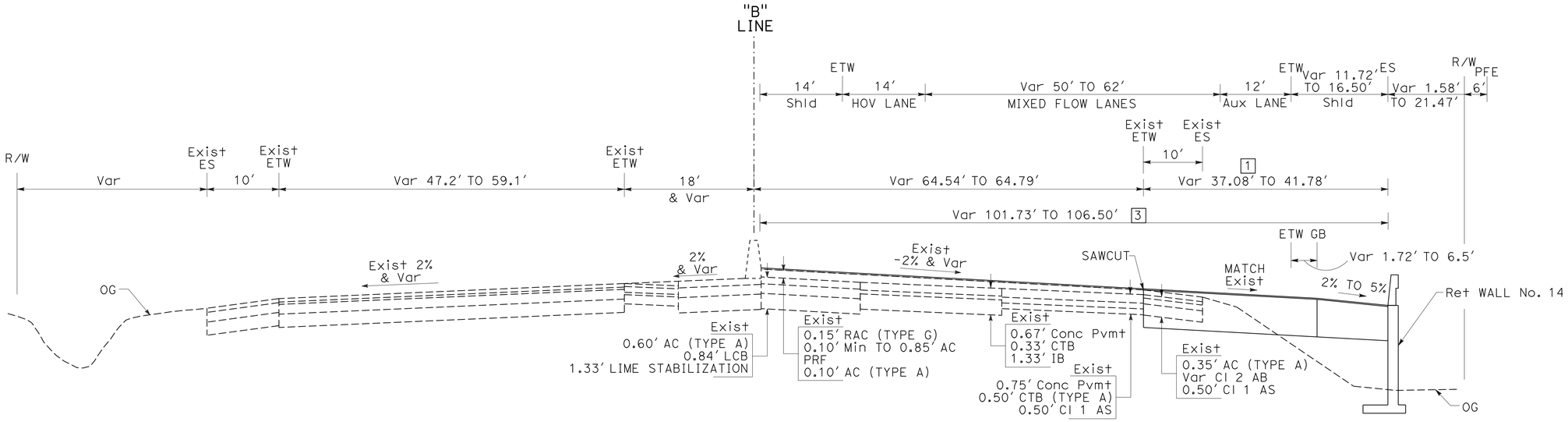
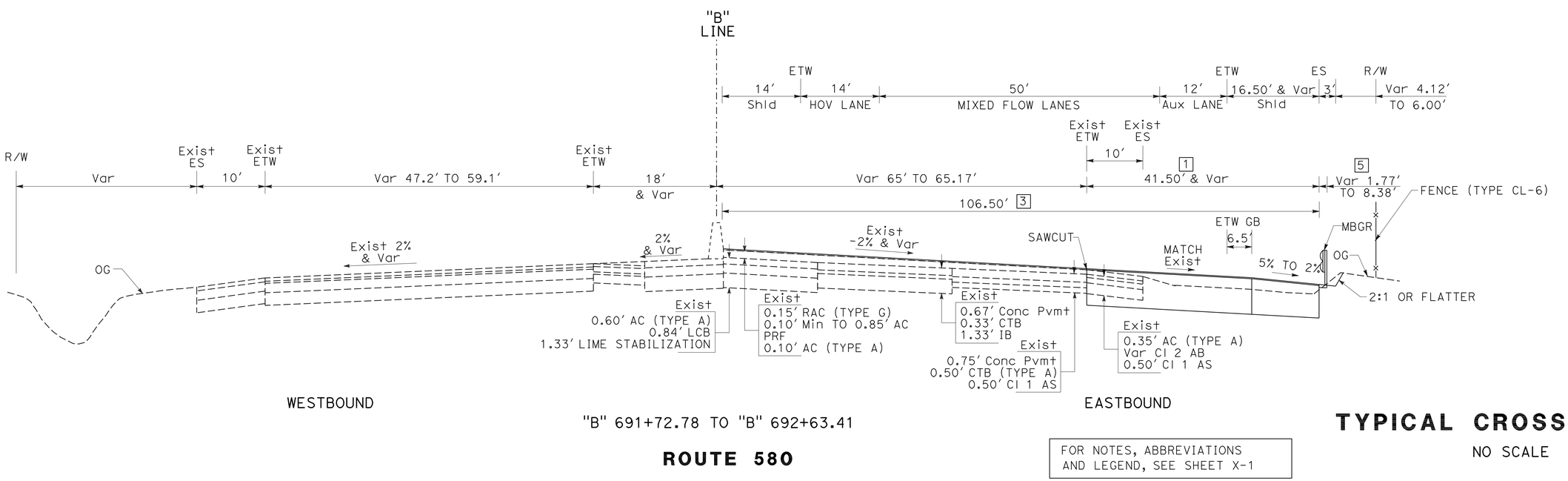


"B" 693+81.07 TO "B" 701+77.05



"B" 691+72.78 TO "B" 692+63.41

ROUTE 580

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

TYPICAL CROSS SECTION

NO SCALE

X-13

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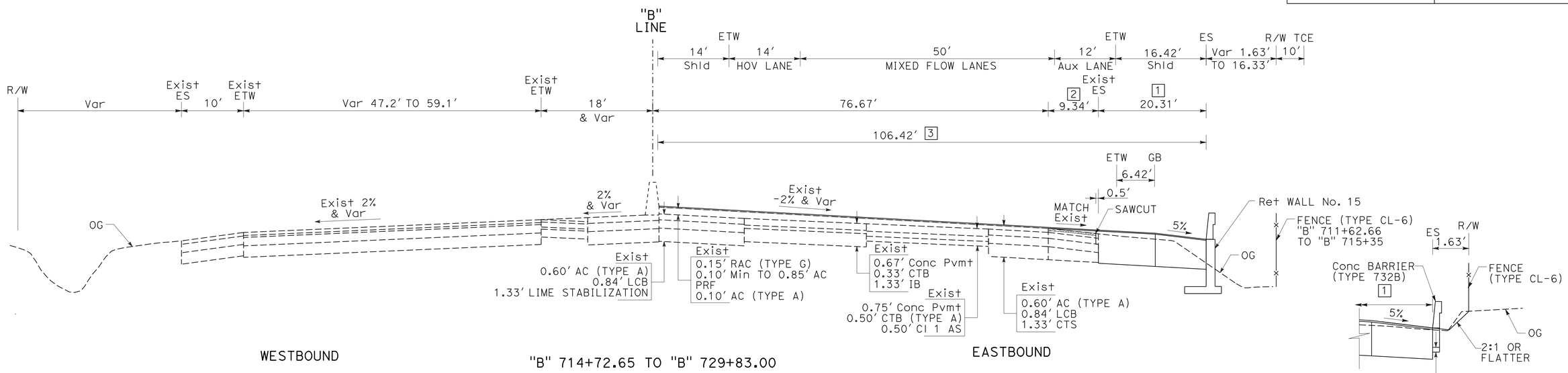

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

ROUTE 580

TYPICAL CROSS SECTION

NO SCALE

X-14

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REGISTERED CIVIL ENGINEER — DATE 2/22/12

PLANS APPROVAL DATE 5-21-12

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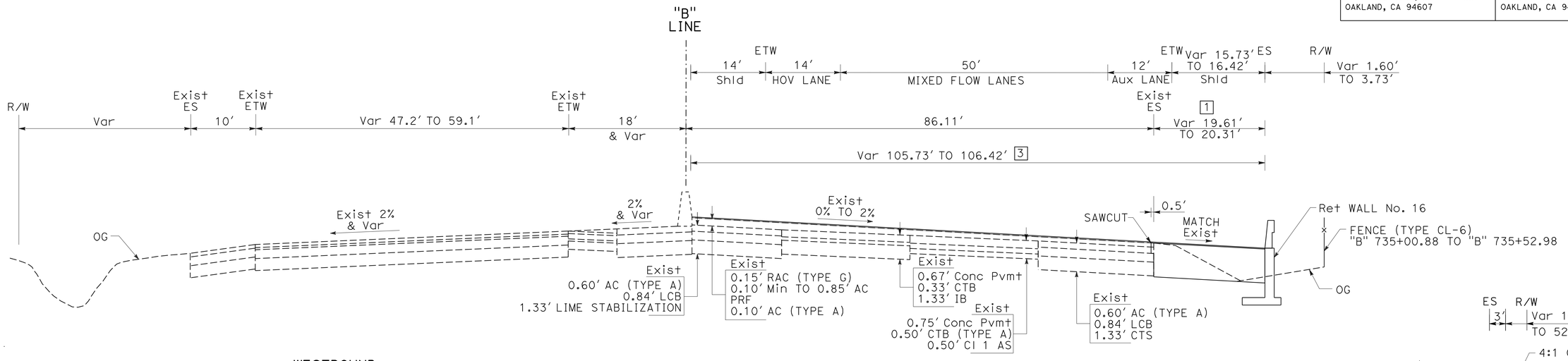
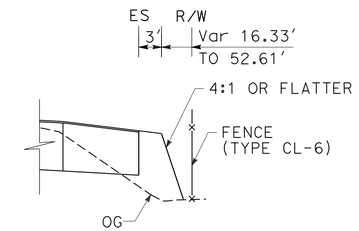
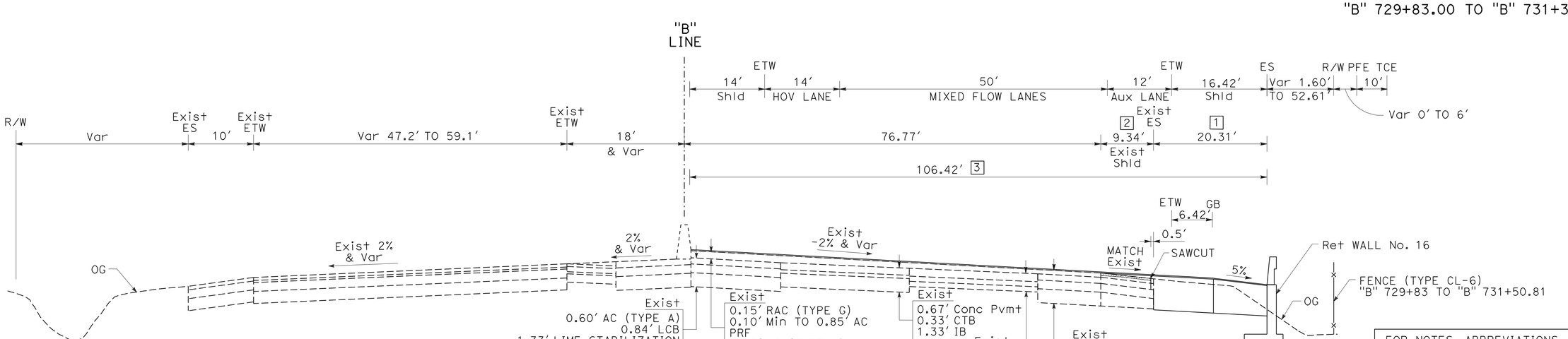




"B" 729+83.00 TO "B" 731+36.59



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

ROUTE 580

TYPICAL CROSS SECTION

NO SCALE

X-15

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04	Ala	580	R7.8/19.1	17	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

5-21-12
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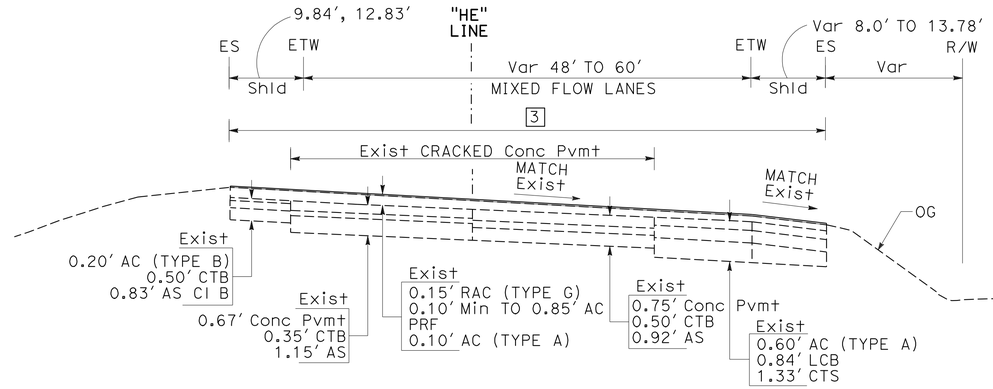
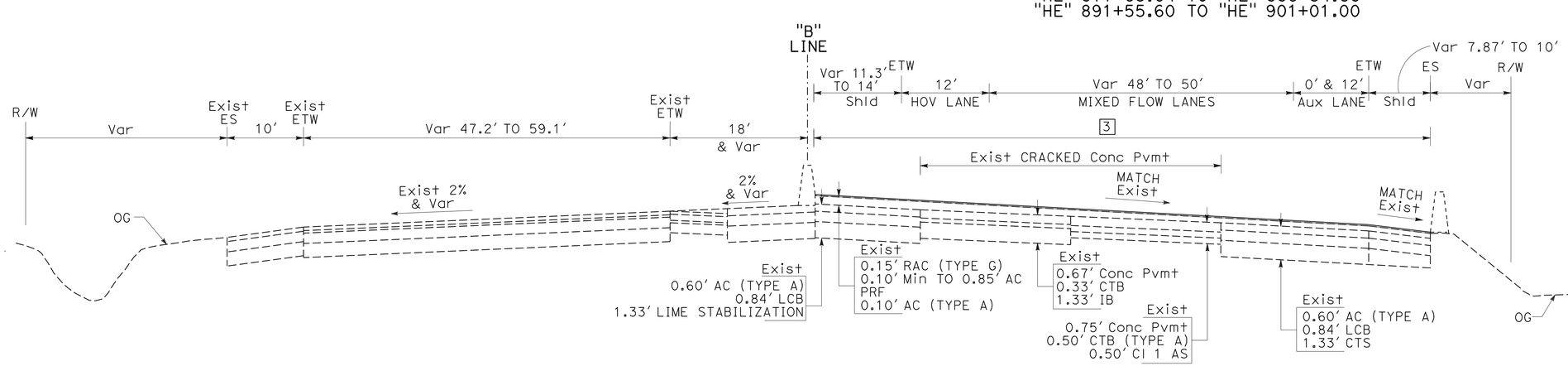


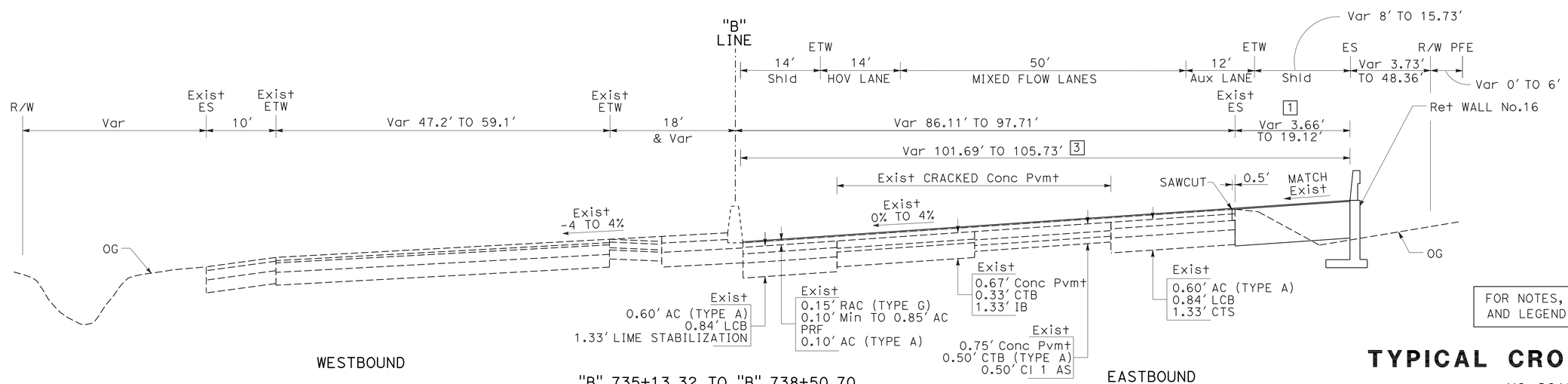
"HE" 855+32.13 TO "HE" 874+24.76
"HE" 877+65.64 TO "HE" 886+54.88
"HE" 891+55.60 TO "HE" 901+01.00



WESTBOUND

"B" 738+50.70 TO "B" 746+71.46
"B" 749+73.29 TO "B" 774+56.88
"B" 778+14.49 TO "B" 829+71.96
"B" 831+29.44 TO "B" 855+32.13

EASTBOUND



WESTBOUND

"B" 735+13.32 TO "B" 738+50.70

EASTBOUND

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

TYPICAL CROSS SECTION

NO SCALE

ROUTE 580

X-16

REVISED BY	SP
DATE REVISED	5/12
CALCULATED-DESIGNED BY	SNEHA PAVULURI
CHECKED BY	NABAZ SAIEED
CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN KRCELIC

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 5-7-12 | DATE PLOTTED => 21-MAY-2012 | TIME PLOTTED => 10:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	18	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

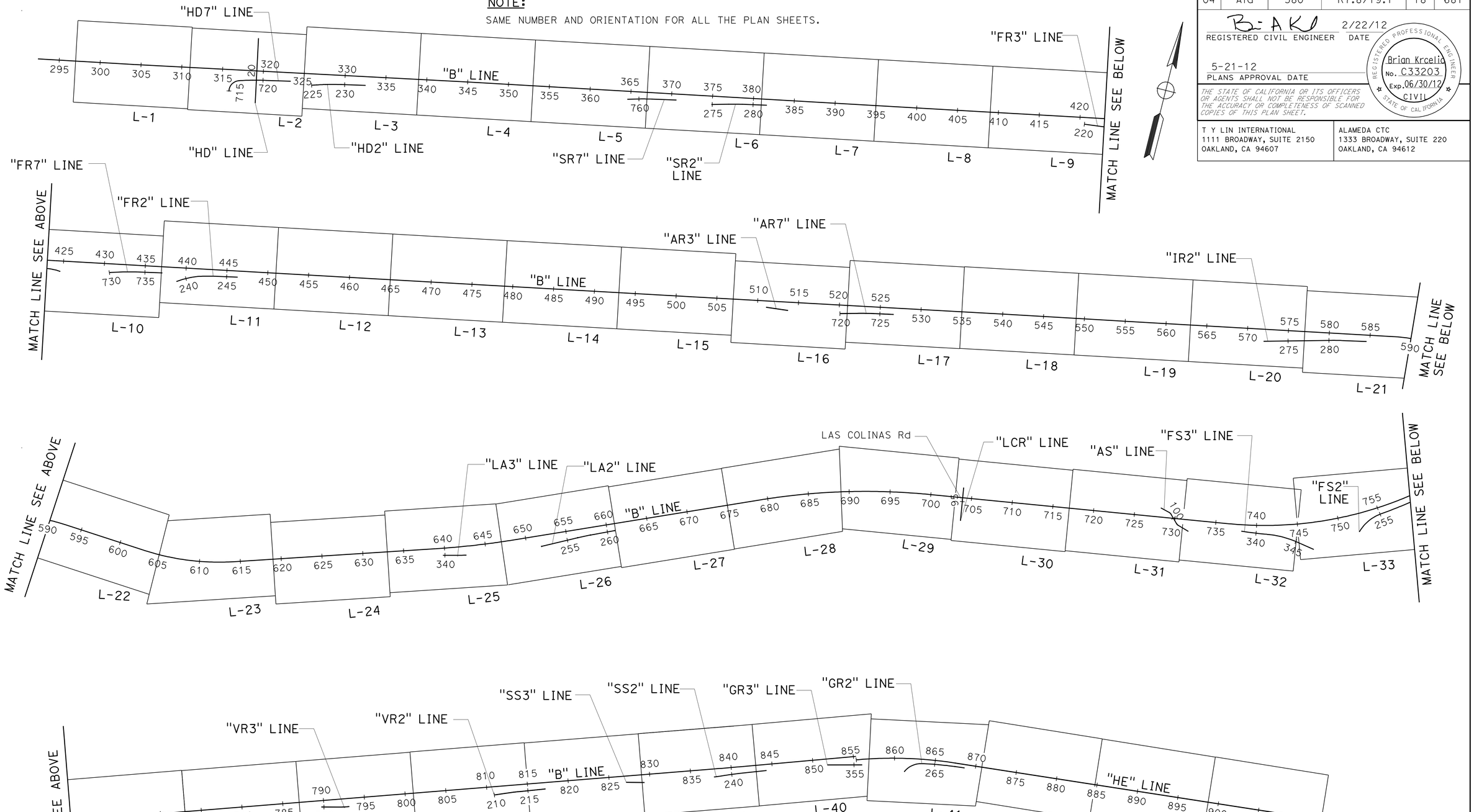
REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

T Y LIN INTERNATIONAL
1111 BROADWAY, SUITE 2150
OAKLAND, CA 94607

ALAMEDA CTC
1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

NOTE:
SAME NUMBER AND ORIENTATION FOR ALL THE PLAN SHEETS.



KEYMAP AND LINE INDEX

NO SCALE

K-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: NABAZ SAIEED
CHECKED BY: SNEHA PAVULURI
REVISED BY
DATE REVISED

LAST REVISION 2-22-12 | DATE PLOTTED => 21-MAY-2012 | TIME PLOTTED => 10:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	19	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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OAKLAND, CA 94607

ALAMEDA CTC
1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

TY-LIN PROJECT CONTROL

POINT ID	NORTHING	EASTING	ELEVATION	DESCRIPTION	OFFSET / STATION
1001	2080964.697	6161023.624	348.07	SET MAG - NAIL - SHNR	88.51′ Lt "B" 328+29.11
1004	2080916.397	6163734.370	349.88	SET MAG - NAIL - SHNR	102.10′ Lt "B" 355+39.71
1008	2079987.040	6164614.028	344.37	SET MAG - NAIL - SHNR	803.85′ Rt "B" 364+43.46
1009	2081340.780	6164796.396	351.76	SET MAG - NAIL - SHNR	554.21′ Lt "B" 365+90.23
1014	2080851.766	6166422.791	347.62	SET MAG - NAIL - SHNR	108.05′ Lt "B" 382+28.90
1017	2080748.443	6169128.845	348.41	SET MAG - NAIL - SHNR	75.62′ Lt "B" 409+36.80
1021	2079717.829	6171659.142	356.42	SET MAG - NAIL - SHNR	890.40′ Rt "B" 434+92.34
1027	2080657.331	6172730.577	359.01	SET MAG - NAIL - SHNR	75.87′ Lt "B" 445+39.70
1030	2080589.939	6175426.239	379.05	SET MAG - NAIL - SHNR	76.60′ Lt "B" 472+36.20
1033	2080525.093	6178128.792	401.75	SET MAG - NAIL - SHNR	79.32′ Lt "B" 499+39.63
1038	2080475.646	6180167.394	398.78	SET MAG - NAIL - SHNR	79.55′ Lt "B" 519+78.80
1046	2080458.748	6181725.755	419.78	SET MAG - NAIL - SHNR	100.69′ Lt "B" 535+37.11
1360	2080978.220	6161409.776	349.09	FND MAG - NAIL - SHNR	109.98′ Lt "B" 332+14.90
1362	2080975.849	6160546.240	345.53	FND MAG - NAIL - SHNR	89.83′ Lt "B" 323+51.60
3010	2082302.244	6164758.099	355.68	FND STREET MON LS 5412	1514.34′ Lt "B" 365+26.72
3015	2081471.339	6170876.560	355.42	FND STREET MON LS 5412	842.78′ Lt "B" 426+65.71
3030	2081226.056	6164735.177	356.97	FND STREET MON LS 5199 CH2MHILL	437.92′ Lt "B" 365+32.05
3031	2080332.814	6164716.151	354.85	FND STREET MON LS 5199 CH2MHILL	455.51′ Rt "B" 365+36.47
3042	2081086.120	6180301.468	445.02	FND CALTRANS DISC	693.12′ Lt "B" 520+97.93
3055	2079898.422	6180396.620	398.22	FND CALTRANS DISC	491.91′ Rt "B" 522+22.05
3150	2081058.603	6159832.079	350.19	FND CALTRANS DISC ALA-60	157.85′ Lt "B" 316+35.88
3153	2080147.423	6160114.335	350.10	FND STREET MON NO STAMP	747.32′ Rt "B" 319+36.85
3208	2080568.321	6180405.242	434.59	FND CALTRANS DISC	178.00′ Lt "B" 522+14.31
3265	2081795.150	6160128.668	347.39	FND STREET MON LS 4559	900.35′ Lt "B" 319+17.24
3266	2081350.272	6160119.397	358.37	FND STREET MON LS 5199	455.38′ Lt "B" 319+17.13
3501	2080051.454	6180407.570	408.82	FND CALTRANS DISC	338.65′ Rt "B" 522+29.26

NOTES:

1. FOR COMPLETE PROJECT CONTROL DATA, SEE THE SURVEY RECORDS ON FILE IN THE SURVEY DEPARTMENT AT THE DISTRICT OFFICE.

2. **HORIZONTAL DATUM**

   THE BASIS OF BEARINGS AND ORIGIN OF COORDINATES FOR THIS PROJECT IS THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE III (EPOCH 2007.00) AS DETERMINED LOCALLY BY GPS SURVEY MEASUREMENTS AND A LEAST SQUARES ADJUSTMENT HOLDING PLATE BOUNDARY OBSERVATORY (PBO) CONTROL MONUMENTS P227 - SunolWildCN2006, P228 - DelValle_CN2005, P229 - BishopRnchCN2005, P230 - NGS (CORS) DH3882, P255 - ArkansaCrkCN2006, P256 - FallmanPrpCN2005, AND P257 - TomPainSigCN2005 FIXED PER GEODETIC VALUES PUBLISHED FROM THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC). THE PROJECTS COMBINED SCALE FACTOR IS 0.9999129. MULTIPLY GRID DISTANCES BY 1.0000871 TO OBTAIN GROUND DISTANCES.

3. **VERTICAL DATUM**

   THE VERTICAL DATUM SHOWN HEREON IS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD). THE 1988 ELEVATIONS FOR THIS PROJECT WERE ESTABLISHED USING DIGITAL LEVELING & GPS SURVEY MEASUREMENTS AND A LEAST SQUARES ADJUSTMENT HOLDING NGS BENCHMARKS GPS CONTROL POINT 35 - PID DE8495, L 1259 - PID HS4075, CHABOT A - PID AI7653, AND OLD RM 3 = TIDAL 5 - PID HS3429 FIXED TO THEIR PUBLISHED VALUES.

   DE8495-GPS CONTROL PT 35 - BENCHMARK IS A NGS HEIGHT MODERNIZATION SURVEY STATION LOCATED APPROXIMATELY 5 MILES NORTH OF THE FREEWAY AND CLOSE TO THE MIDDLE OF THE CORRIDOR AND IS A SURVEY DISK SET INSIDE AN 8-INCH PVC PIPE WITH CAP STAMPED "PT 35 LS 5 672 1990". REFER TO THE NGS DATA SHEET FOR OFFICIAL DESCRIPTION ELEVATION = 831.60′ (TY LIN No. 3475)

   HS4075-L 1259-BENCHMARK IS LOCATED ON THE EAST SIDE OF THE COASTAL RANGE MOUNTAINS AND OUTSIDE THE MAPPING LIMITS ON THE SOUTHWEST OUTSKIRTS OF TRACY ON THE SIDE OF CORRAL HOLLOW ROAD AND IS A VERTICAL CONTROL DISK ENCASED IN A 4-INCH PVC PIPE STAMPED "L 1259 1974". REFER TO THE NGS DATA SHEET FOR OFFICIAL DESCRIPTION ELEVATION = 250.25′ (TY LIN No. 3477)

   AI7653 - CHABOT A - BENCHMARK IS ON THE WEST SIDE THE EAST-BAY HILLS AND IS THE MOST WESTERLY BENCHMARK OF THIS CONTROL NETWORK AND IS LOCATED ON THE PROPERTY OWNED BY ALAMEDA COUNTY, GSA-BMD, AT 2200 FAIRMONT DRIVE, AND IS A VERTICAL CONTROL DISK SET IN ROCK OUTCROP STAMPED "CHABOT A 2000". REFER TO THE NGS DATA SHEET FOR OFFICIAL DESCRIPTION. ELEVATION = 492.08′ (TY LIN No. 3479)

   HS3565 - SWITCH - BENCHMARK IS LOCATED ON THE SOUTH SIDE OF ALAMEDA CREEK IN NILES ON THE WEST SIDE OF THE EAST-BAY HILLS AND WAS ALLOWED TO FLOAT FREE FOR THE FINAL LEVEL ADJUSTMENT. THE STATION MARK IS A TRIANGULATION STATION DISK STAMPED "SWITCH 1958" SET ON REATAINING WALL OF AN OLD HIGHWAY BRIDGE. REFER TO THE NGS DATA SHEET FOR OFFICIAL DESCRIPTION. ELEVATION = 86.54′ (TY LIN No. 3480)

   HS3429 - OLD RM 3 = TIDAL 5 - BENCHMARK IS LOCATED ON SOUTH SIDE OF THE LEVEE ADJOINING ROUTE 4 NEAR DISCOVERY BAY AND ON THE EAST SIDE OF THE COASTAL MOUNTAIN RANGE AND IS A REFERENCE MARK DICK STAMPED "OLD RM 3 1931". STAMPING IS MOSTLY ILLEGIBLE. REFER TO THE NGS DATA SHEET FOR OFFICIAL DESCRIPTION. ELEVATION = 14.80′ (TY LIN No. 3481)

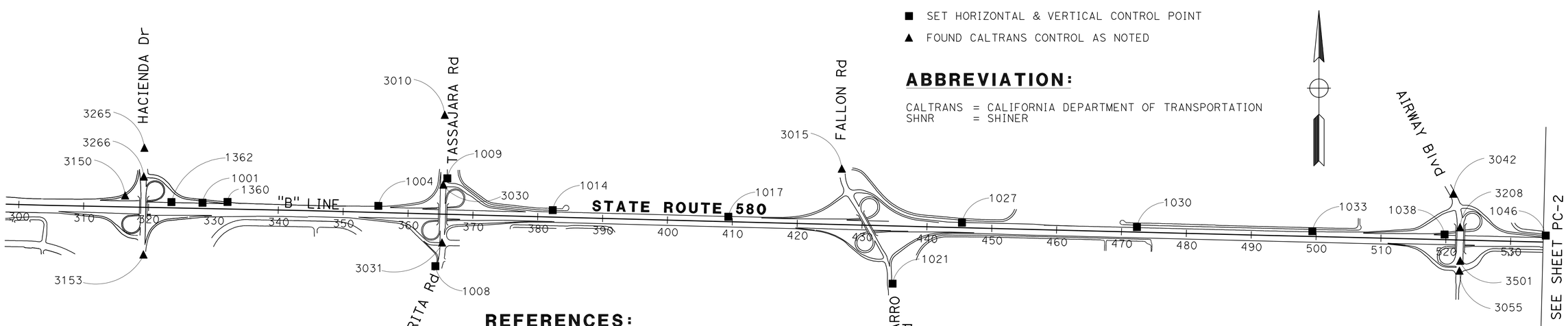
LEGEND:

■ SET HORIZONTAL & VERTICAL CONTROL POINT

▲ FOUND CALTRANS CONTROL AS NOTED

ABBREVIATION:

CALTRANS = CALIFORNIA DEPARTMENT OF TRANSPORTATION
SHNR = SHINER



REFERENCES:

* SEE TYLIN INTERNATIONAL SURVEY CONTROL REPORT DATED 8-18-2008 ON FILE w/DISTRICT 4 ROW ENGINEERING

APPROVED FOR PROJECT CONTROL INFORMATION ONLY

PROJECT CONTROL

NO SCALE

PC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: GREG S. ZIEROTT
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	20	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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1111 BROADWAY, SUITE 2150
OAKLAND, CA 94607

ALAMEDA CTC
1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

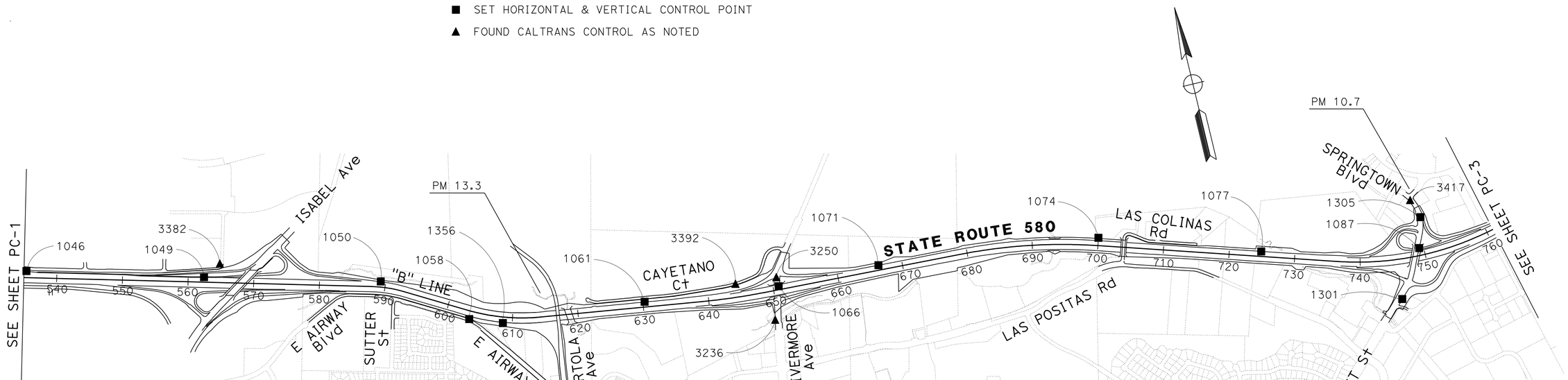
TY-LIN PROJECT CONTROL

POINT ID	NORTHING	EASTING	ELEVATION	DESCRIPTION	OFFSET / STATION
1046	2080458.748	6181725.755	419.78	SET MAG - NAIL - SHNR	100.69' Lt "B" 535+37.11
1049	2080365.148	6184425.791	419.16	SET MAG - NAIL - SHNR	76.63' Lt "B" 563+38.52
1050	2080288.774	6187126.395	425.07	SET MAG - NAIL - SHNR	75.73' Lt "B" 589+34.69
1058	2079729.030	6188467.268	437.46	SET MAG - NAIL - SHNR	120.75' Rt "B" 603+64.10
1061	2079982.573	6191133.508	463.72	SET MAG - NAIL - SHNR	73.07' Lt "B" 630+22.75
1066	2080247.157	6193174.946	481.32	SET MAG - NAIL - SHNR	72.58' Lt "B" 650+89.72
1071	2080544.081	6194693.589	473.48	SET MAG - NAIL - SHNR	73.62' Lt "B" 666+37.12
1074	2080919.359	6198042.119	497.27	SET MAG - NAIL - SHNR	74.42' Lt "B" 700+00.15
1077	2080756.252	6200502.253	513.97	SET MAG - NAIL - SHNR	73.65' Lt "B" 724+65.68
1087	2080801.340	6202924.407	552.89	SET CUT X ON CONC	106.44' Lt "B" 749+25.56
1301	2080029.946	6202666.762	525.74	FND MAG - NAIL - SHNR	609.36' Rt "B" 745+58.77
1305	2081279.405	6202938.663	529.76	FND MAG - NAIL - SHNR	568.80' Lt "B" 750+58.05
1356	2079665.276	6188981.467	442.88	FND MAG - NAIL - SHNR	92.60' Rt "B" 608+64.29
3236	2079698.032	6193123.233	463.59	FND CALTRANS DISC ALA - 446	456.53' Rt "B" 649+33.95
3250	2080304.196	6193145.358	463.62	FND CALTRANS DISC ALA - 447	134.22' Lt "B" 650+71.58
3382	2080514.653	6184667.149	418.68	FND CALTRANS DISC ALA - 63	232.32' Lt "B" 564+75.93
3392	2080242.912	6192519.015	529.96	FND CALTRANS DISC ALA - 448	185.14' Lt "B" 644+37.16
3417	2081513.004	6202785.439	520.27	FND CALTRANS DISC ALA - 443	831.34' Lt "B" 749+44.89

LEGEND:

■ SET HORIZONTAL & VERTICAL CONTROL POINT

▲ FOUND CALTRANS CONTROL AS NOTED



REFERENCES:

* SEE TYLIN INTERNATIONAL SURVEY CONTROL REPORT DATED 8-18-2008 ON FILE w/DISTRICT 4 ROW ENGINEERING

APPROVED FOR PROJECT CONTROL INFORMATION ONLY

PROJECT CONTROL

NO SCALE

PC-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: GREG S. ZIEROTT

CHECKED BY: NABAZ SAIEED

REVISED BY

DATE REVISED

LAST REVISION | DATE PLOTTED => 21-MAY-2012 | TIME PLOTTED => 10:49 | 2-22-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	21	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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1111 BROADWAY, SUITE 2150
OAKLAND, CA 94607

ALAMEDA CTC
1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

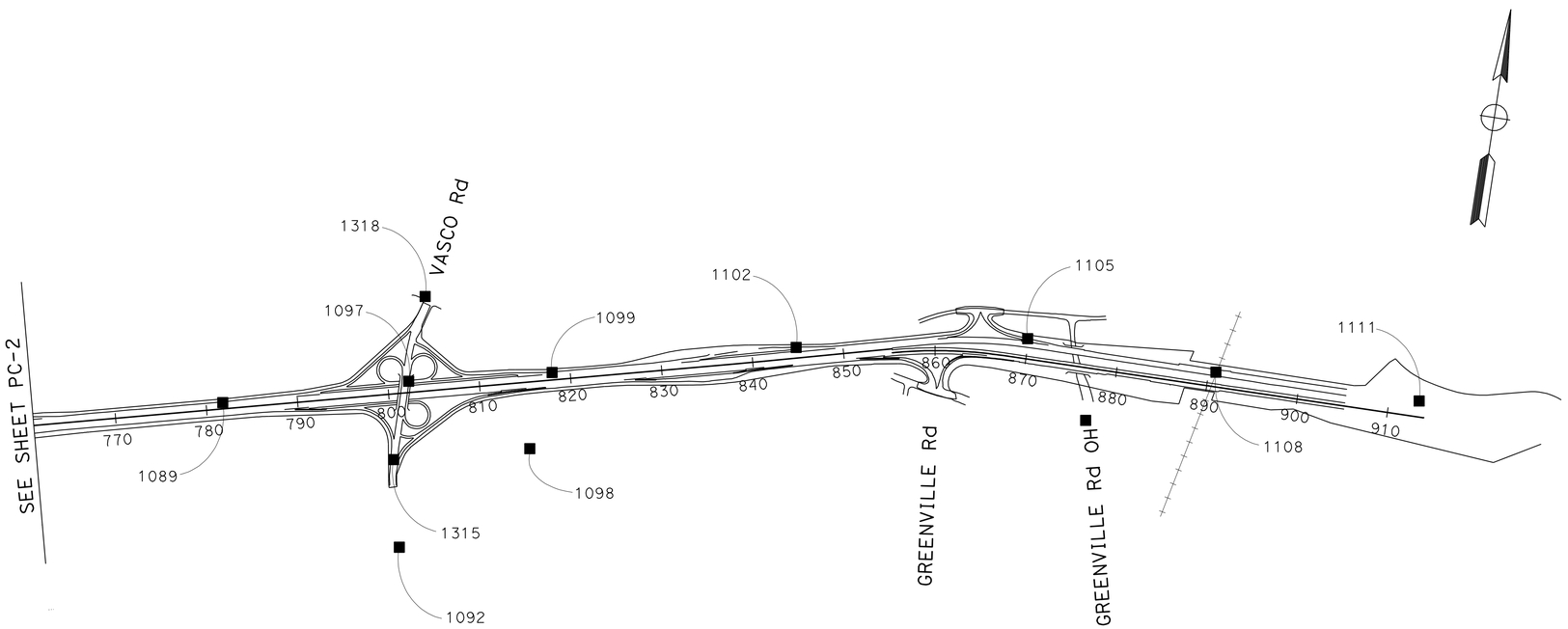
TY-LIN PROJECT CONTROL

POINT ID	NORTHING	EASTING	ELEVATION	DESCRIPTION	OFFSET / STATION
1089	2082114.500	6205867.079	529.14	SET MAG - NAIL - SHNR	75.23' L+ "B" 781+83.67
1092	2081379.247	6208255.223	544.26	SET MAG - NAIL - SHNR	1671.96' R+ "B" 799+70.05
1097	2083095.531	6207665.091	558.01	SET CUT X ON CONC	124.05' L+ "B" 802+31.32
1099	2083778.682	6209081.315	539.21	SET MAG - NAIL - SHNR	82.87' L+ "B" 818+03.17
1102	2085041.910	6211449.585	554.32	SET MAG - NAIL - SHNR	116.89' L+ "B" 844+88.03
1105	2086090.234	6213761.023	579.83	SET MAG - NAIL - SHNR	99.89' L+ "B" 870+06.73
1108	2086555.020	6215801.126	694.72	SET CUT X ON CONC	185.73' L+ "HE" 890+79.41
1111	2087081.800	6217983.284	812.87	SET MAG - NAIL - SHNR	175.88' L+ "HE" 913+24.23
1315	2082238.821	6207837.931	539.98	SET MAG - NAIL - SHNR	716.71' R+ "B" 799+70.05
1318	2083994.767	6207490.409	531.46	SET MAG - NAIL - SHNR	1003.46' L+ "B" 804+87.80

LEGEND:

■ SET HORIZONTAL & VERTICAL CONTROL POINT

▲ FOUND CALTRANS CONTROL AS NOTED



APPROVED FOR PROJECT CONTROL INFORMATION ONLY

PROJECT CONTROL

NO SCALE

PC-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: GREG S. ZIEROTT
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12 | DATE PLOTTED => 21-MAY-2012 | TIME PLOTTED => 10:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	22	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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T Y LIN INTERNATIONAL
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OAKLAND, CA 94607

ALAMEDA CTC
1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATES, BEARINGS AND DISTANCES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE-3, EPOCH 2007.00. TO OBTAIN GROUND DISTANCES MULTIPLY GRID DISTANCES BY 1.0000612.

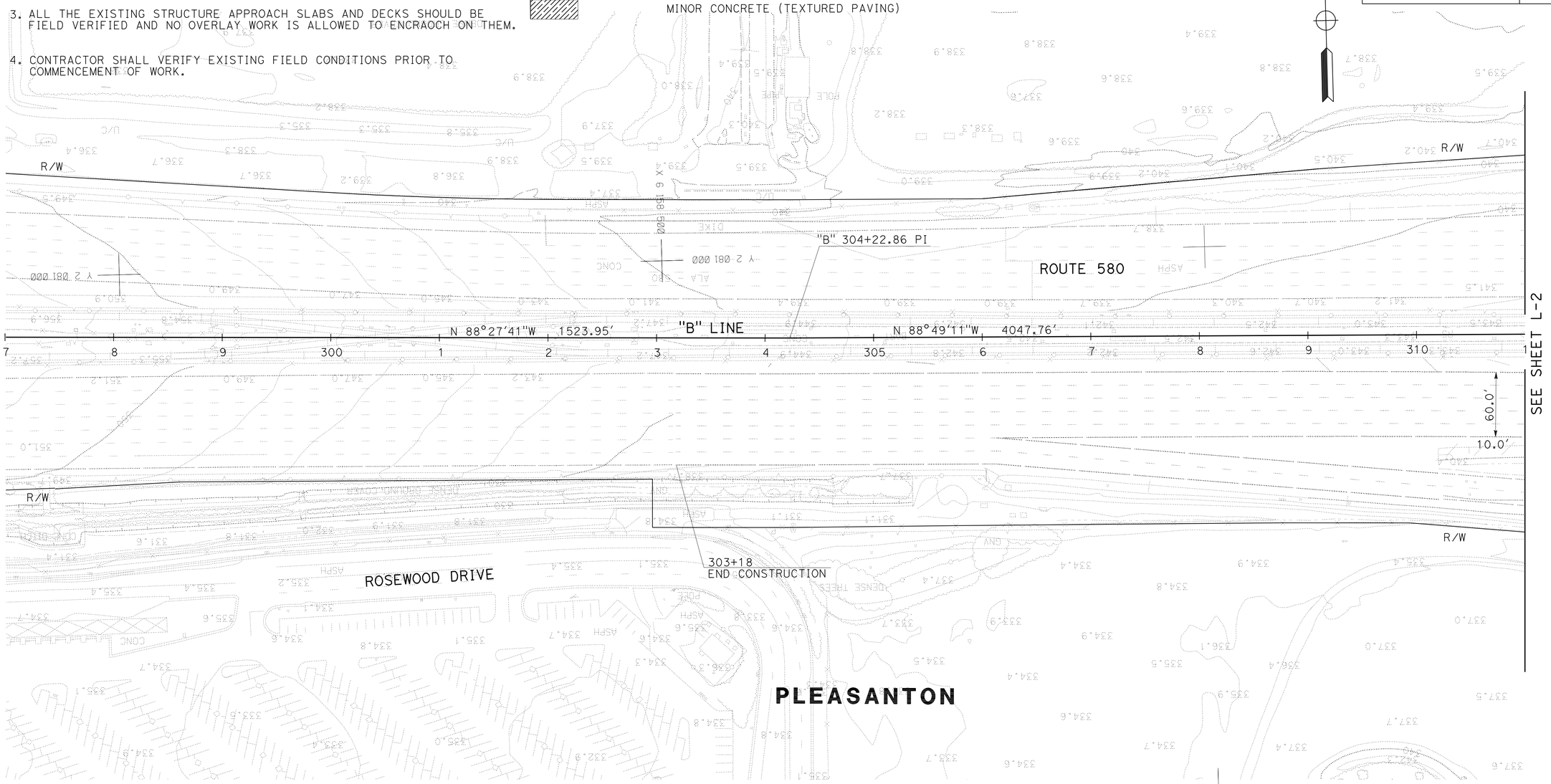
   COORDINATES, BEARINGS AND DISTANCES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE-3, EPOCH 2007.00. TO OBTAIN GROUND DISTANCES MULTIPLY GRID DISTANCES BY 1.0000612.
3. ALL THE EXISTING STRUCTURE APPROACH SLABS AND DECKS SHOULD BE FIELD VERIFIED AND NO OVERLAY WORK IS ALLOWED TO ENCROACH ON THEM.
4. CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

LEGEND:

- No. — PAVEMENT STRUCTURAL SECTION, SEE SHEET X-1
- TEMPORARY CONSTRUCTION EASEMENT
- PERMANENT EASEMENT FOR TIEBACK OR SOIL NAIL WALL AND RETAINING WALL FOOTING
- COLD PLANE AC PAVEMENT AND OVERLAY WITH HMA-O
- TFESA — TEMPORARY REINFORCED SILT FENCE (TYPE 1)
- MINOR CONCRETE (TEXTURED PAVING)

ABBREVIATIONS:

ESA	ENVIRONMENTALLY SENSITIVE AREA
HMA-O	HOT MIX ASPHALT - OPEN GRADED
TRSF	TEMPORARY REINFORCED SILT FENCE



LAYOUT

SCALE: 1" = 50'

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED

REVISED BY / DATE REVISED

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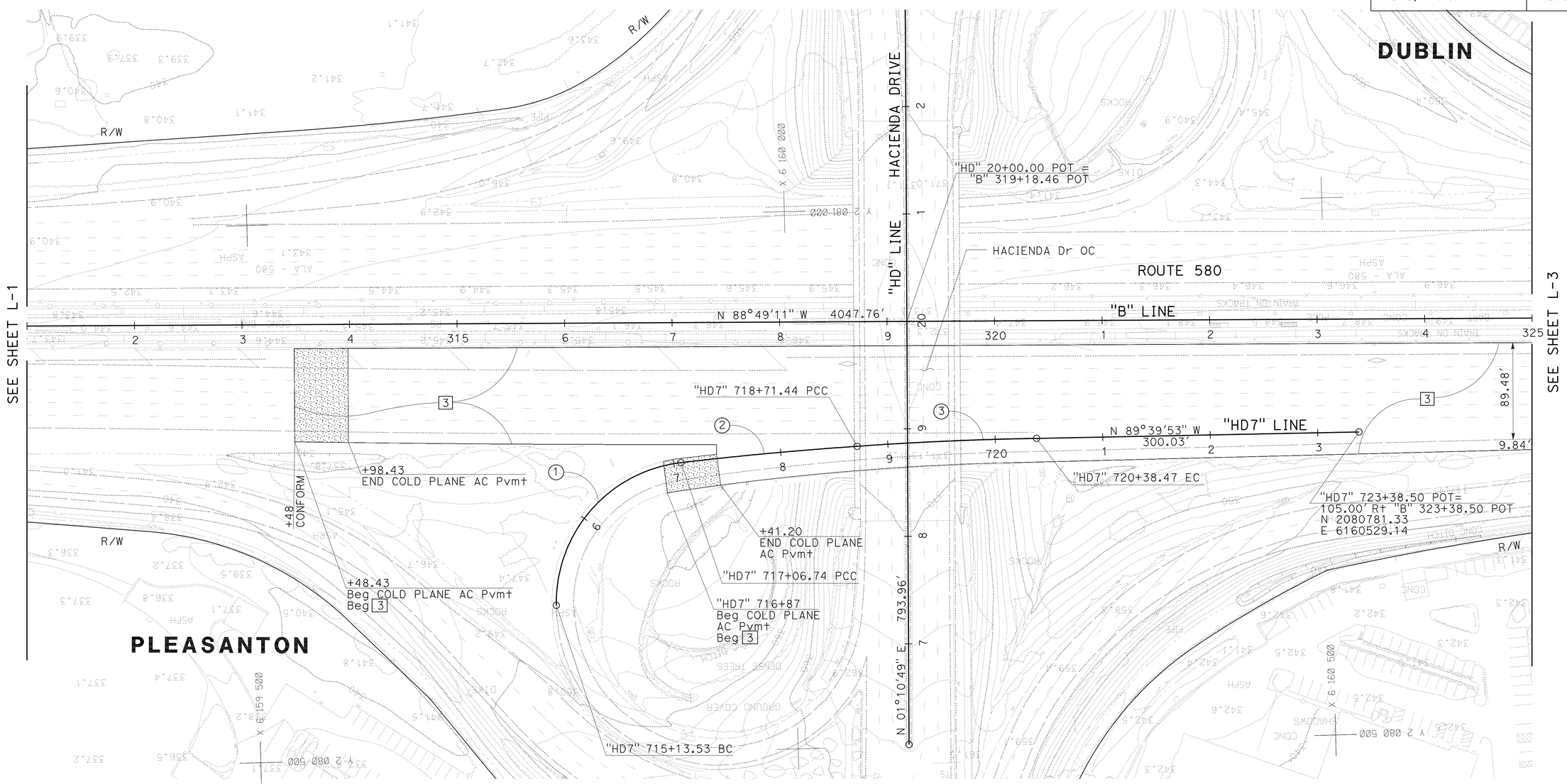

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
1	131.23′	84°21′05″	118.89′	193.20′	2080638.348	6159909.771
2	3294.56′	2°51′52″	82.37′	164.71′	2077488.282	6160199.068
3	3000.00′	3°11′24″	83.54′	167.03′	2077783.219	6160201.276

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50′

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
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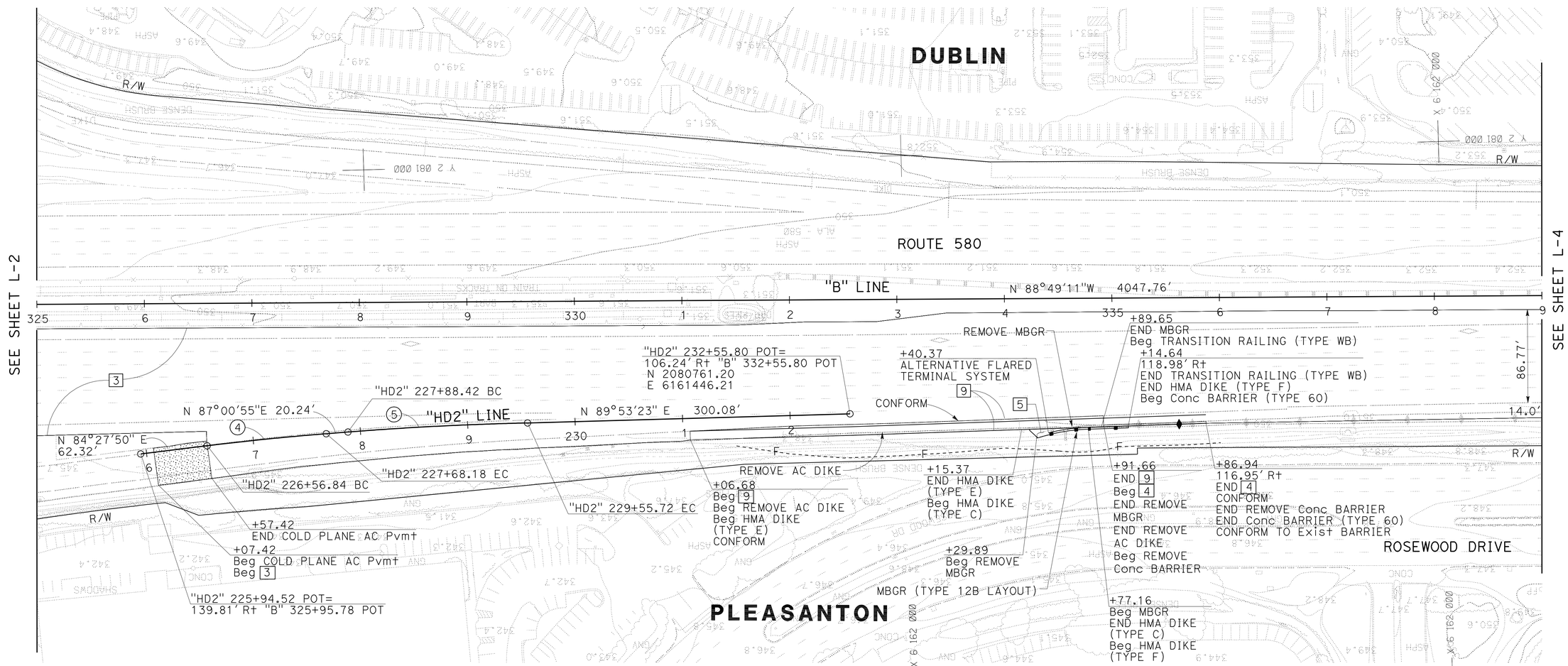
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
4	2500.00'	2°33'06"	55.68'	111.33'	2078258.903	6161088.859
5	3003.63'	3°11'29"	83.67'	167.30'	2077757.011	6161135.297

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	25	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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OAKLAND, CA 94612

NOTE:

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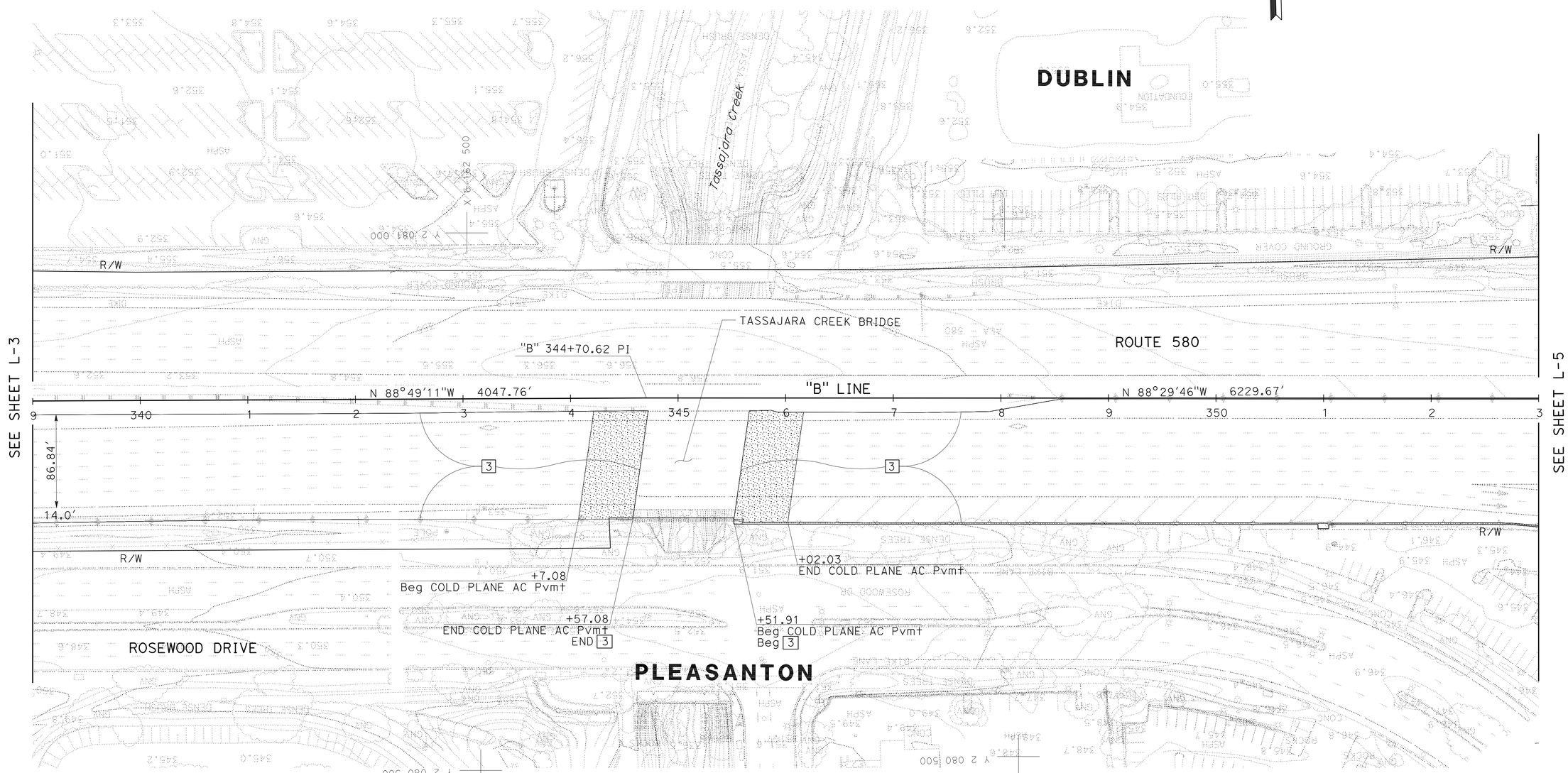

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI
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REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	26	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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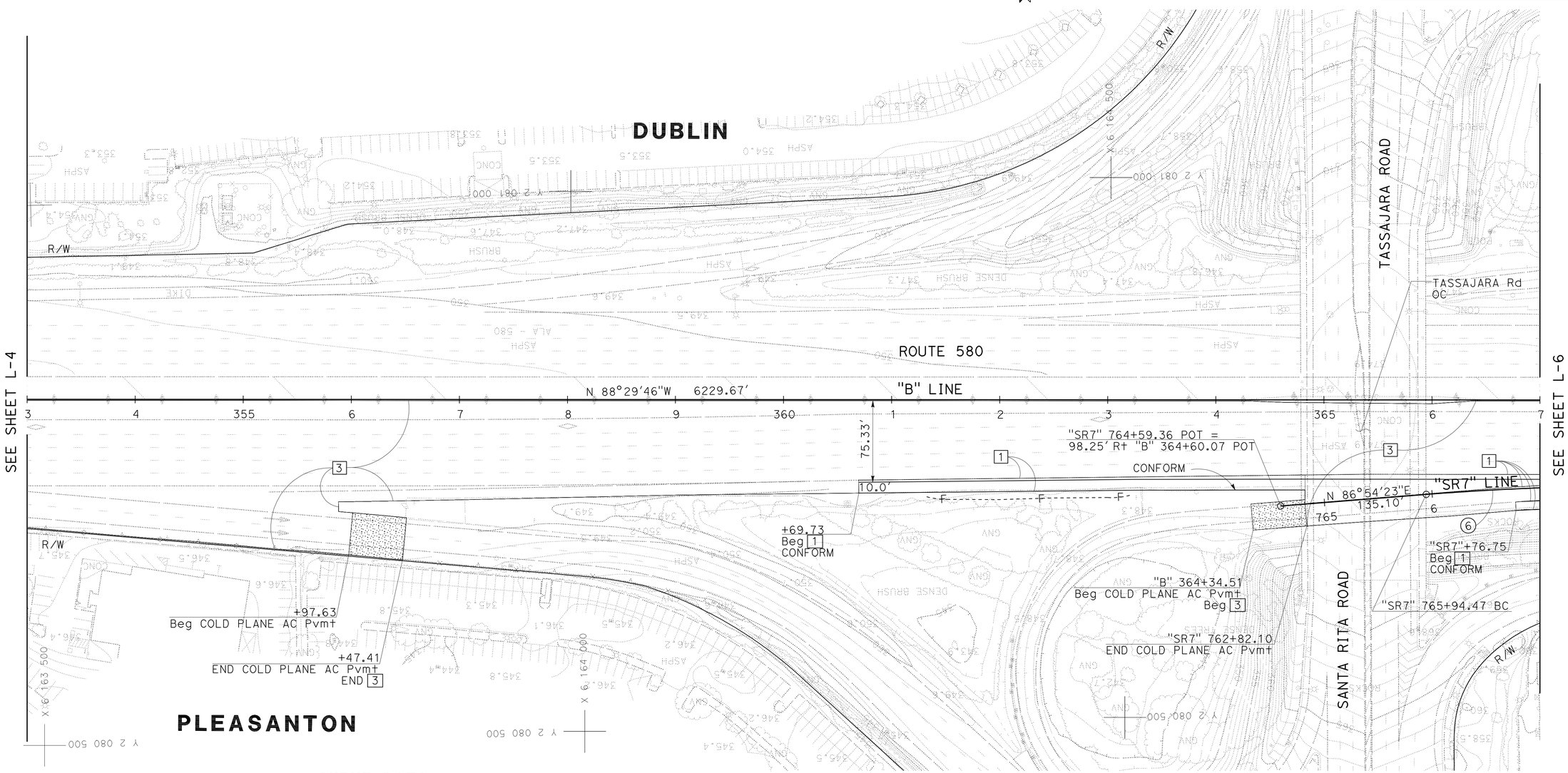

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
6	3000.00'	3°11'44"	83.68'	167.32'	2077702.908	6164932.242

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	27	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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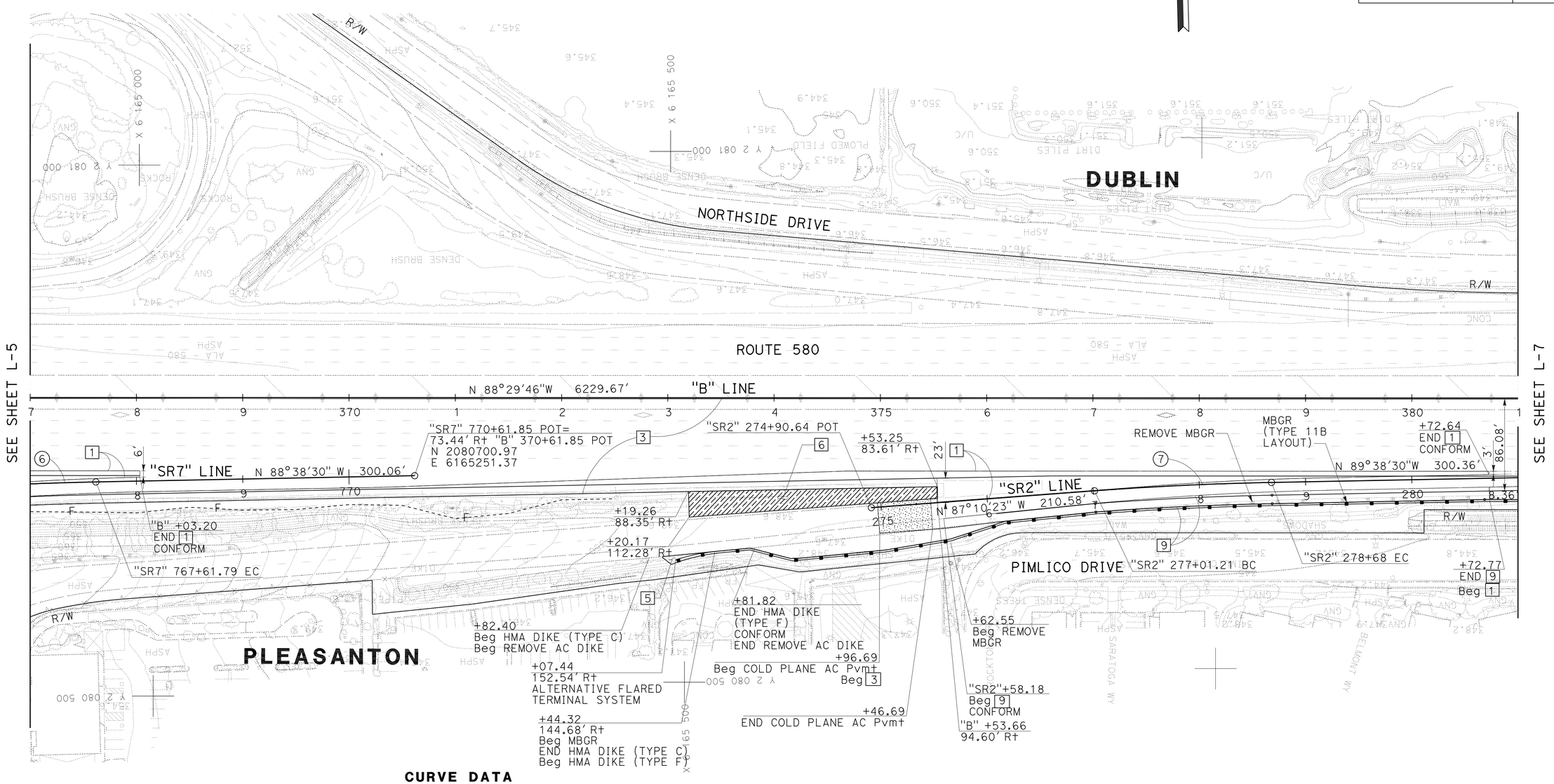

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
6	3000.00'	3°11'44"	83.68'	167.32'	2077702.908	6164932.242
7	3000.00'	3°11'07"	83.41'	166.78'	2077673.866	6166038.390

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR BRIAN KRCELIC
CALCULATED-DESIGNED BY SNEHA PAVULURI
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REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	28	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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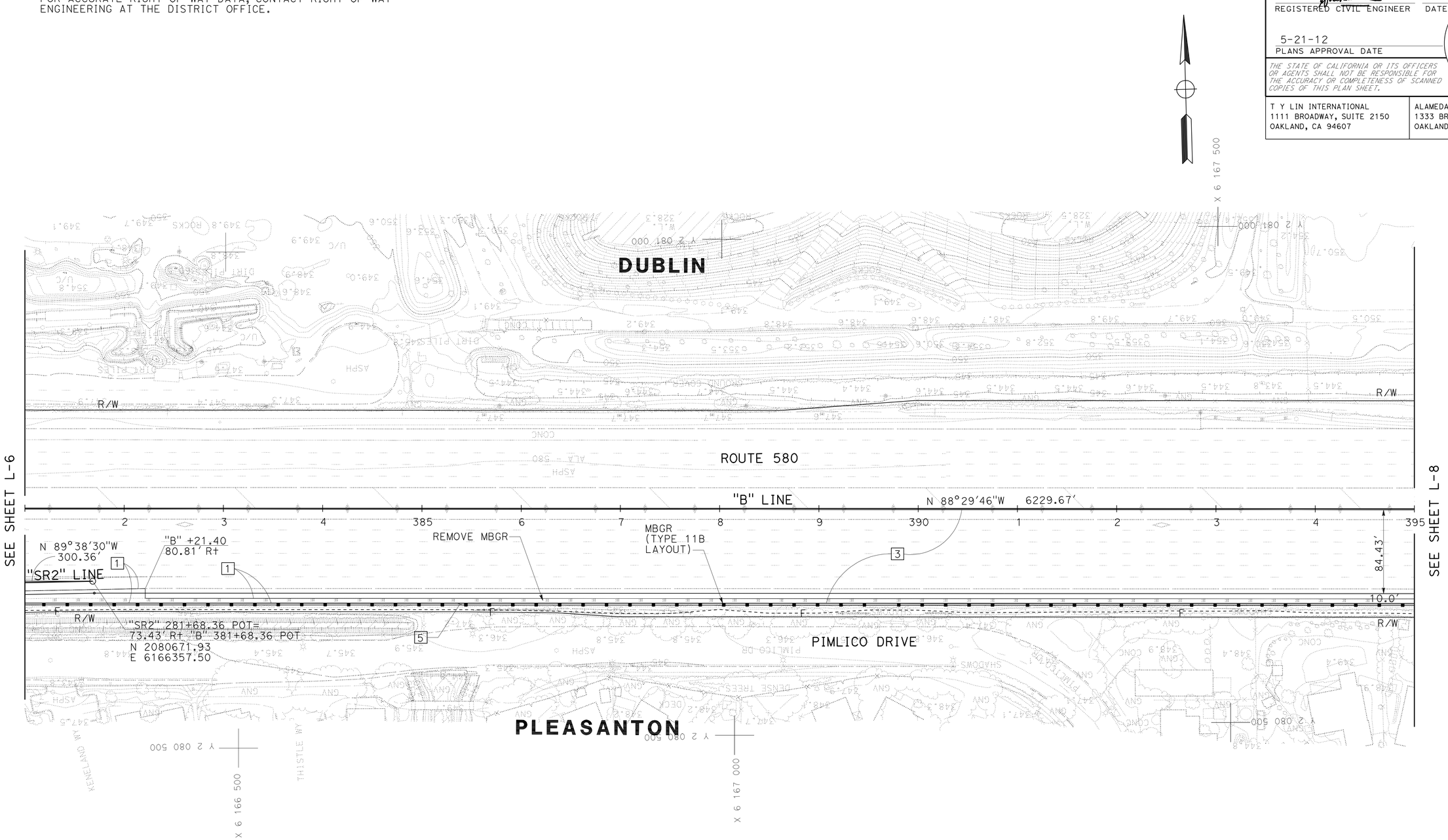

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

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LAST REVISION 2-22-12 | DATE PLOTTED => 21-MAY-2012 | TIME PLOTTED => 10:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	29	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
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REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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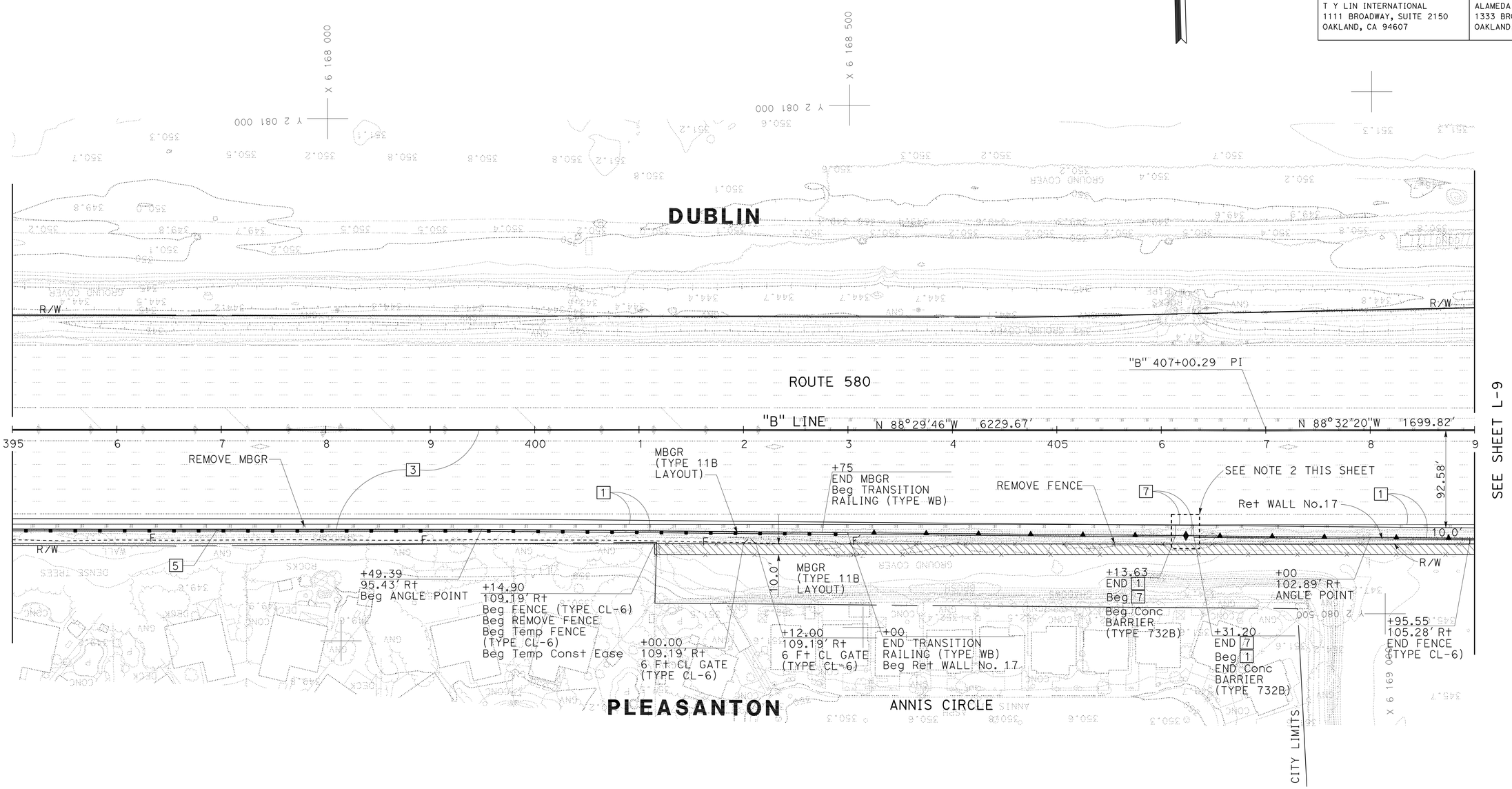
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. NO RETAINING WALL No. 17 WITHIN THESE LIMITS. SEE DRAINAGE DETAILS FOR CONCRETE BARRIER OR PARAPET WALL AT THIS LOCATION.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	30	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

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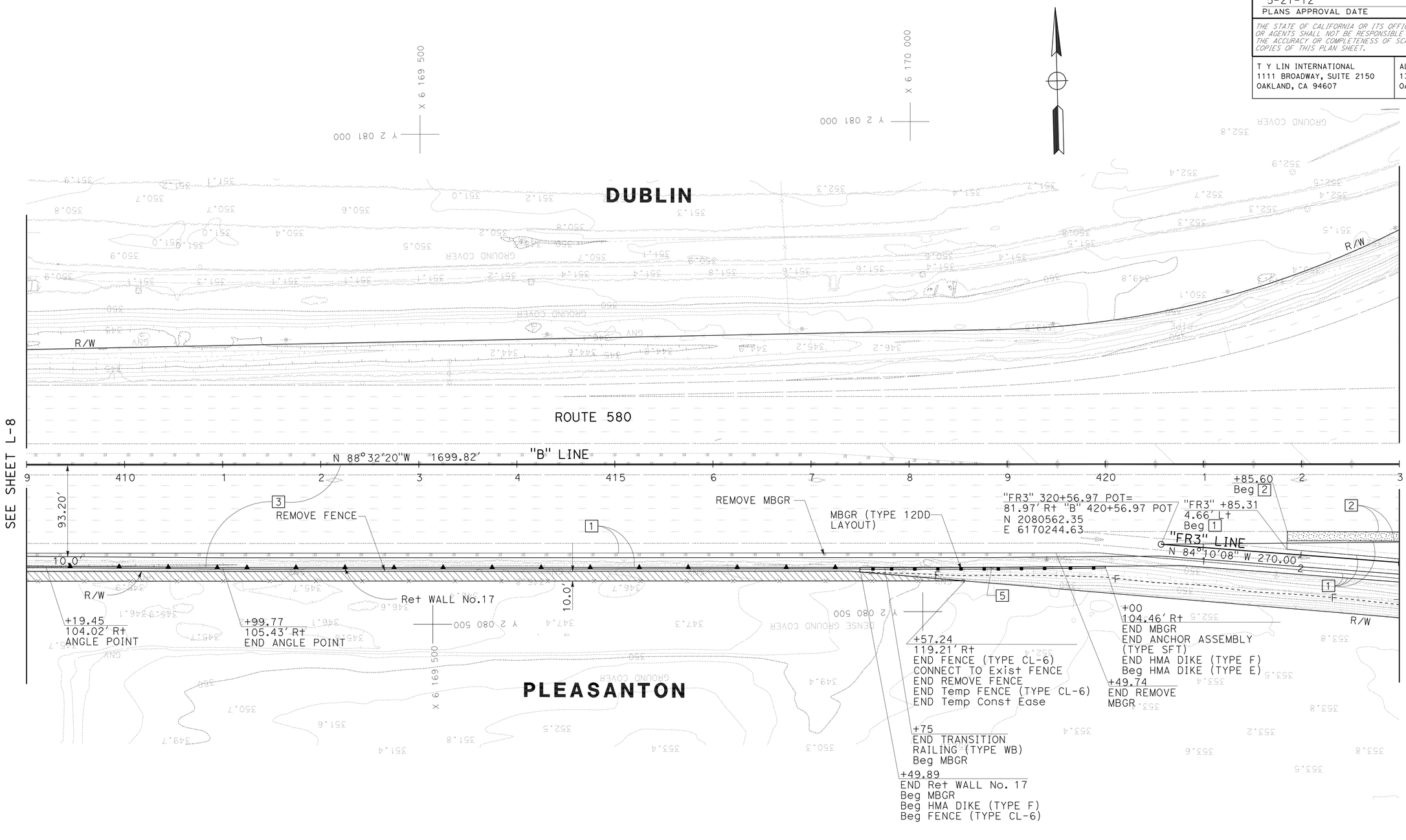

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-9

REVISED BY	DATE REVISED
SNEHA PAVULURI	NABAZ SAIEED

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	31	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

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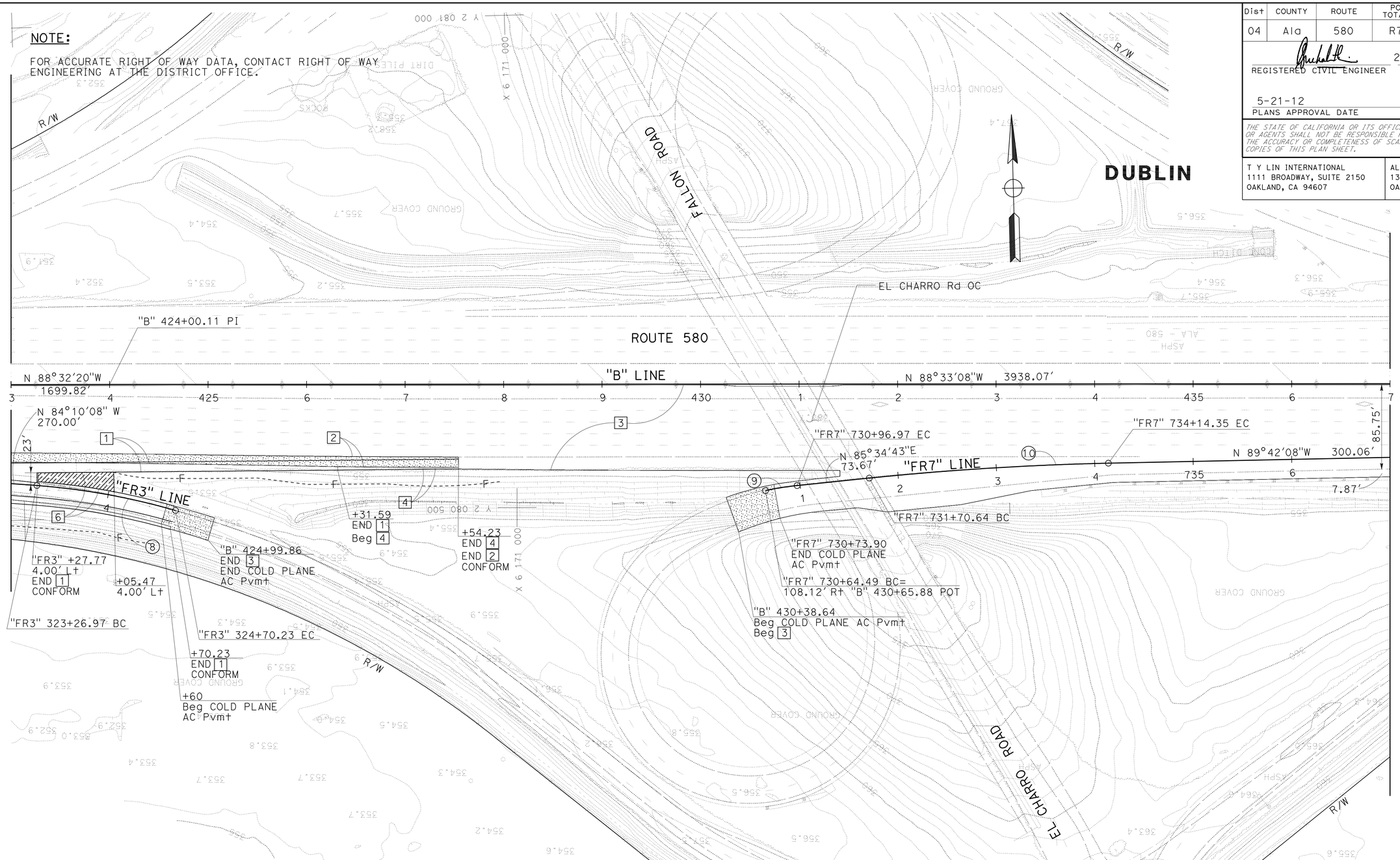

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
8	700.00'	11°43'35"	71.88'	143.26'	2079838.542	6170442.120
9	295.28'	6°18'09"	16.26'	32.48'	2080220.513	6171307.527
10	3000.00'	4°38'47"	121.71'	243.28'	2077529.516	6171589.488

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
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DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	32	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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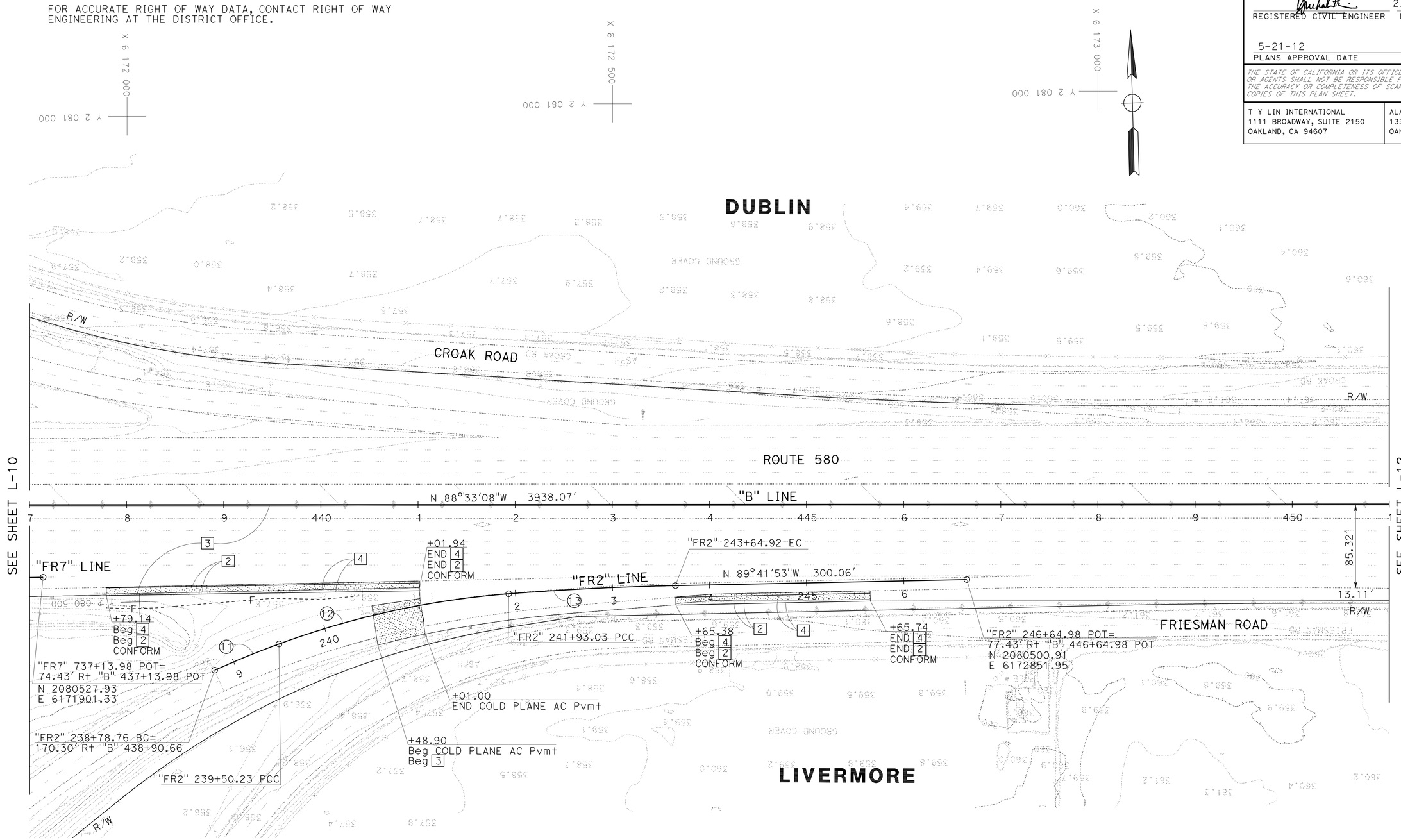

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
11	1000.00'	4°05'42"	35.75'	71.47'	2079505.740	6172462.961
12	885.00'	15°43'08"	122.17'	242.80'	2079614.667	6172426.091
13	3000.00'	3°16'59"	85.97'	171.89'	2077502.529	6172536.077

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-11

REVISED BY | DATE REVISED
SNEHA PAVULURI | NABAZ SAIEED
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CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	33	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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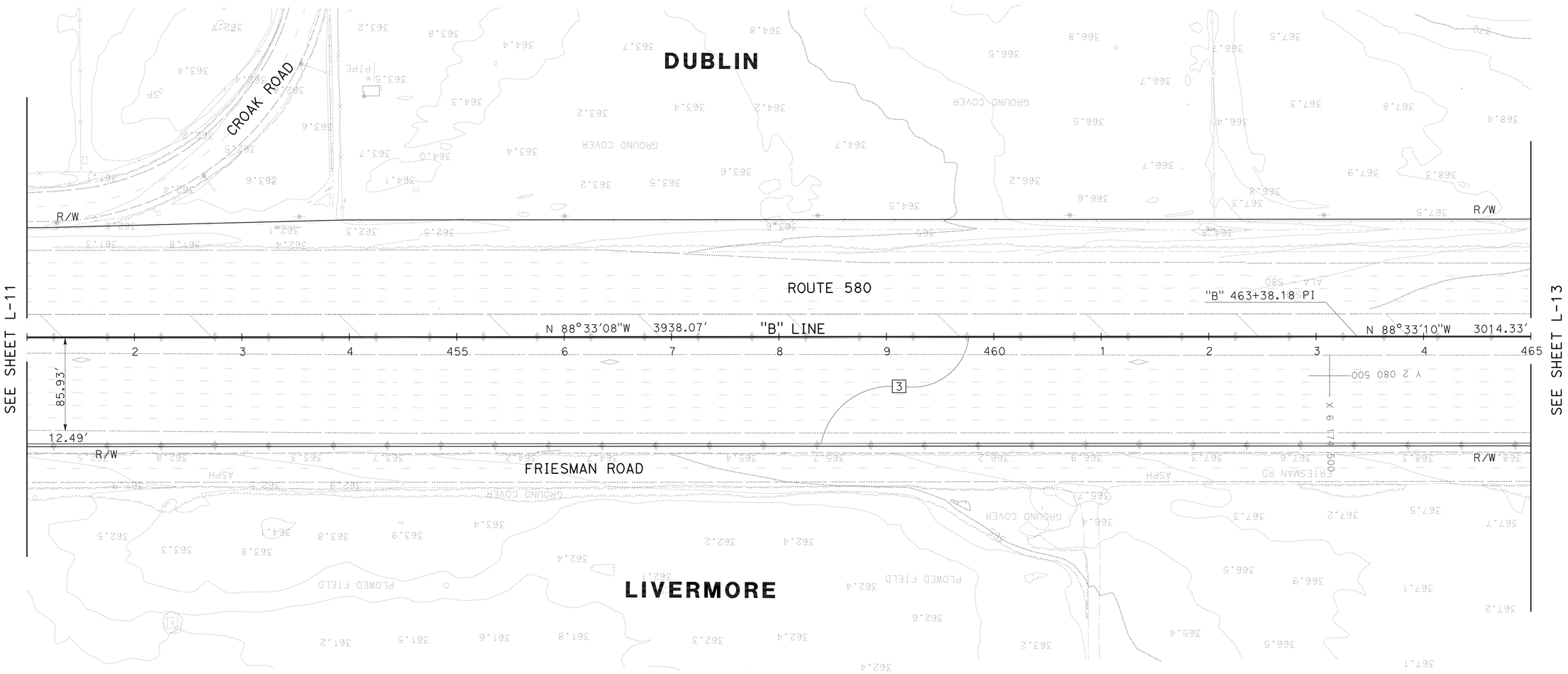

LAYOUT

SCALE: 1" = 50'

L-12

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

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LAST REVISION 2-22-12

DATE PLOTTED => 21-MAY-2012
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	34	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SNEHALATHA PAVULURI
No. C78187
Exp. 09/30/13
CIVIL
STATE OF CALIFORNIA

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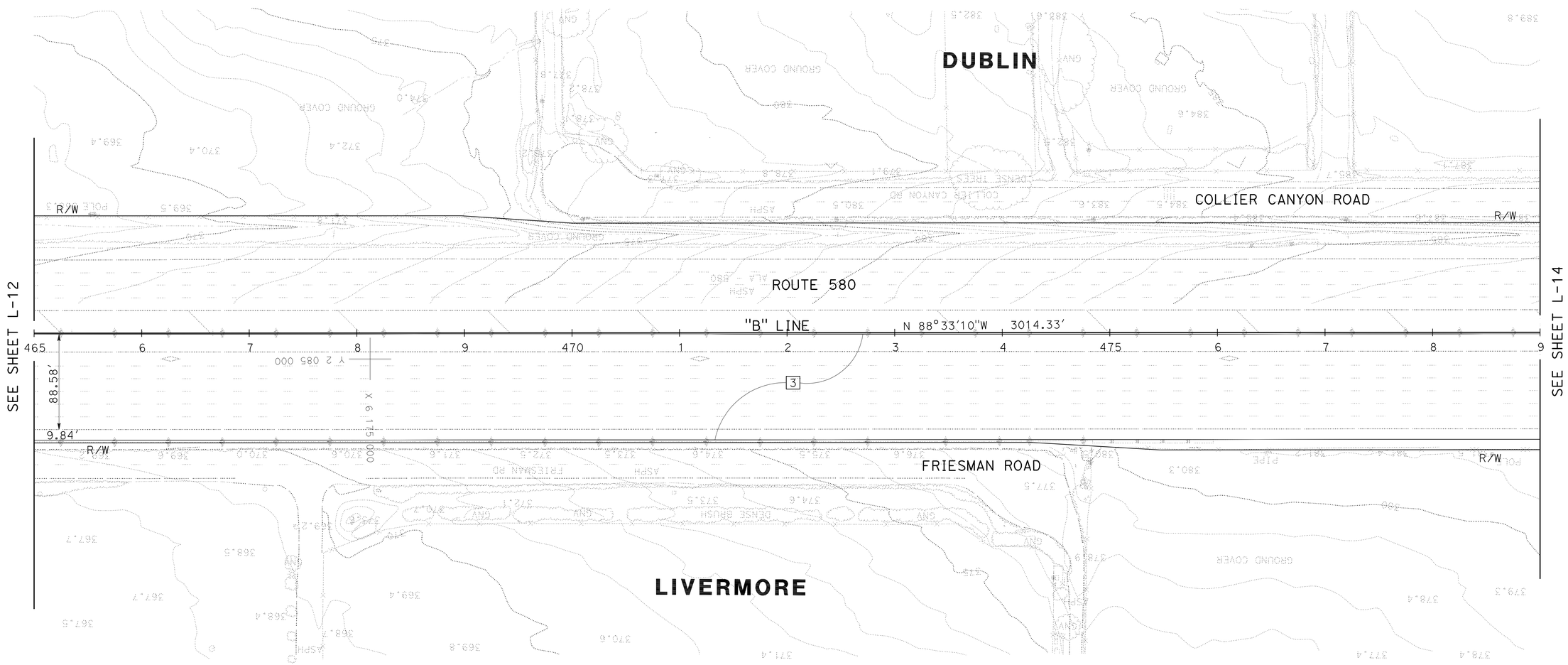

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-13

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SNEHA PAVULURI | NABAZ SAIEED
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04	Ala	580	R7.8/19.1	35	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

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PLANS APPROVAL DATE

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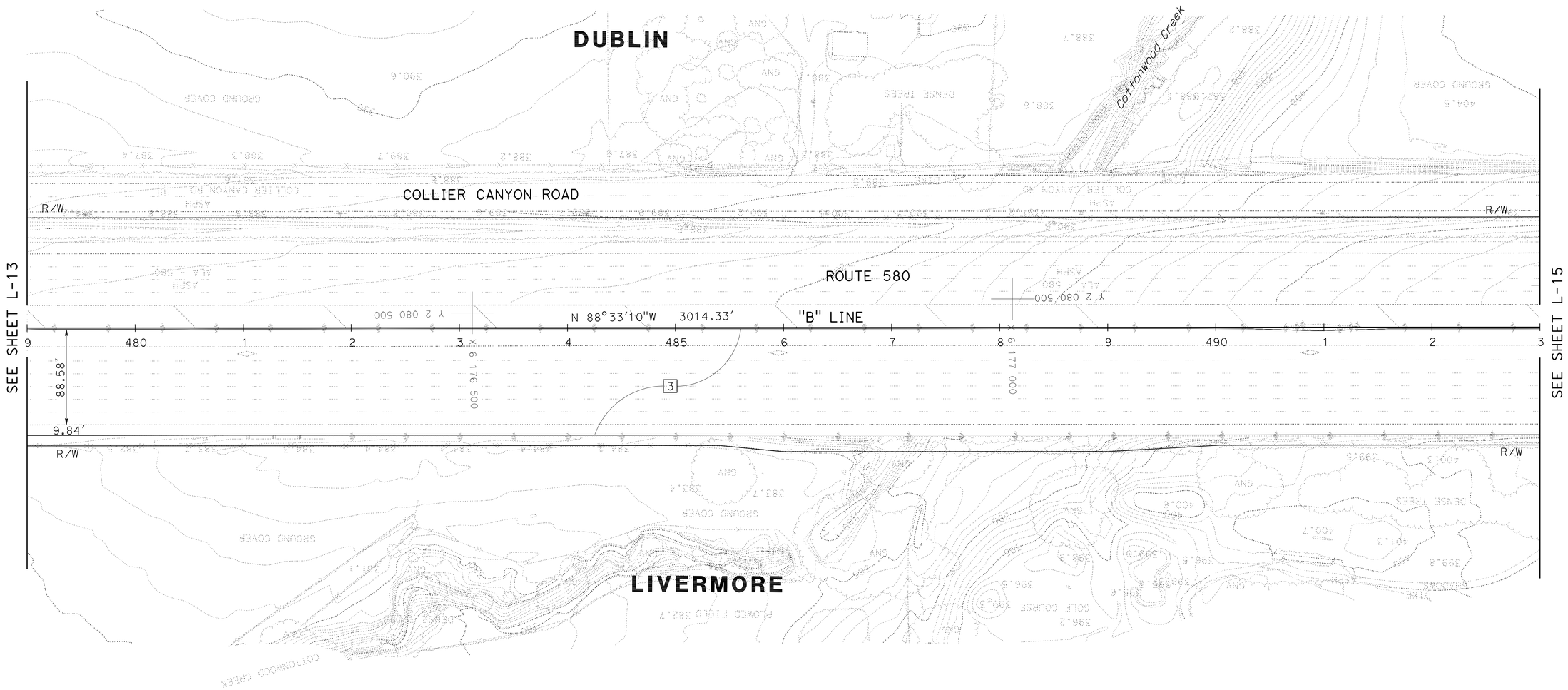

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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DATE REVISED

LAST REVISION 2-22-12 | DATE PLOTTED => 21-MAY-2012 | TIME PLOTTED => 10:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	36	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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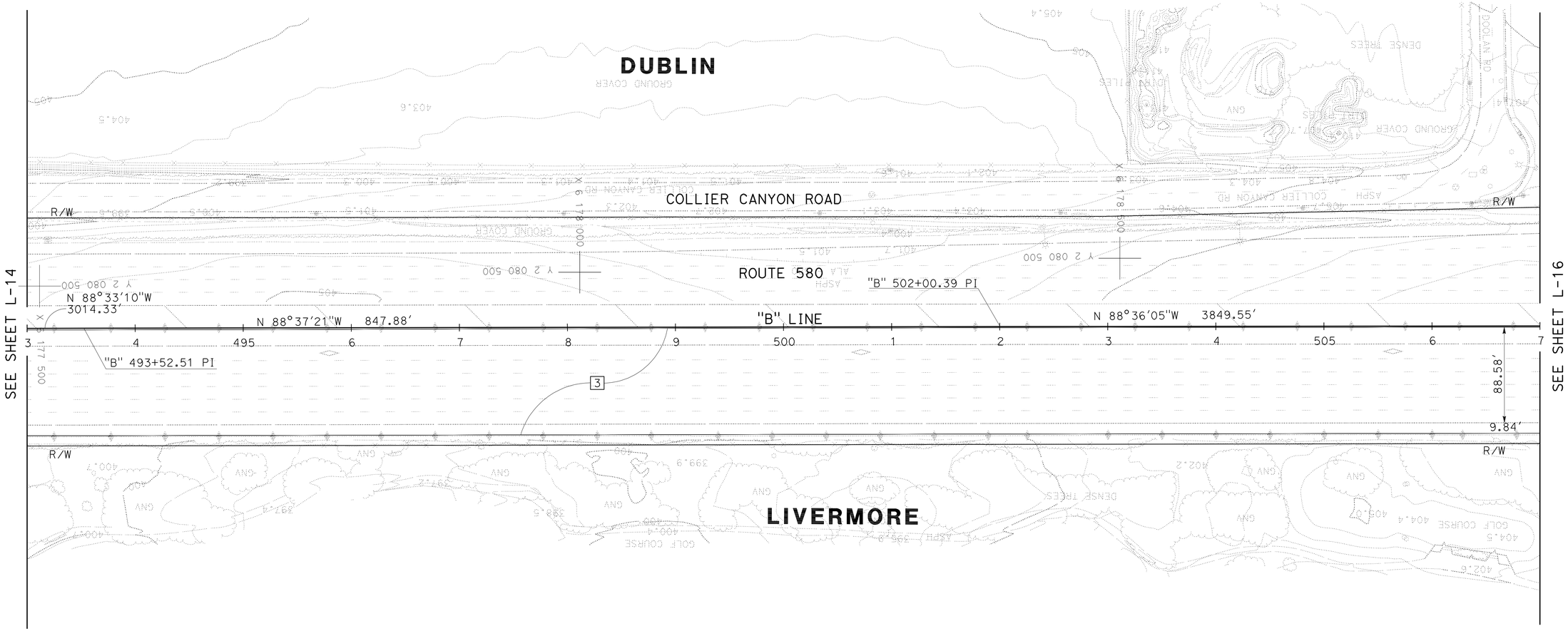

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-15

REVISED BY | DATE REVISED
SNEHA PAVULURI | NABAZ SAIEED
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	37	681

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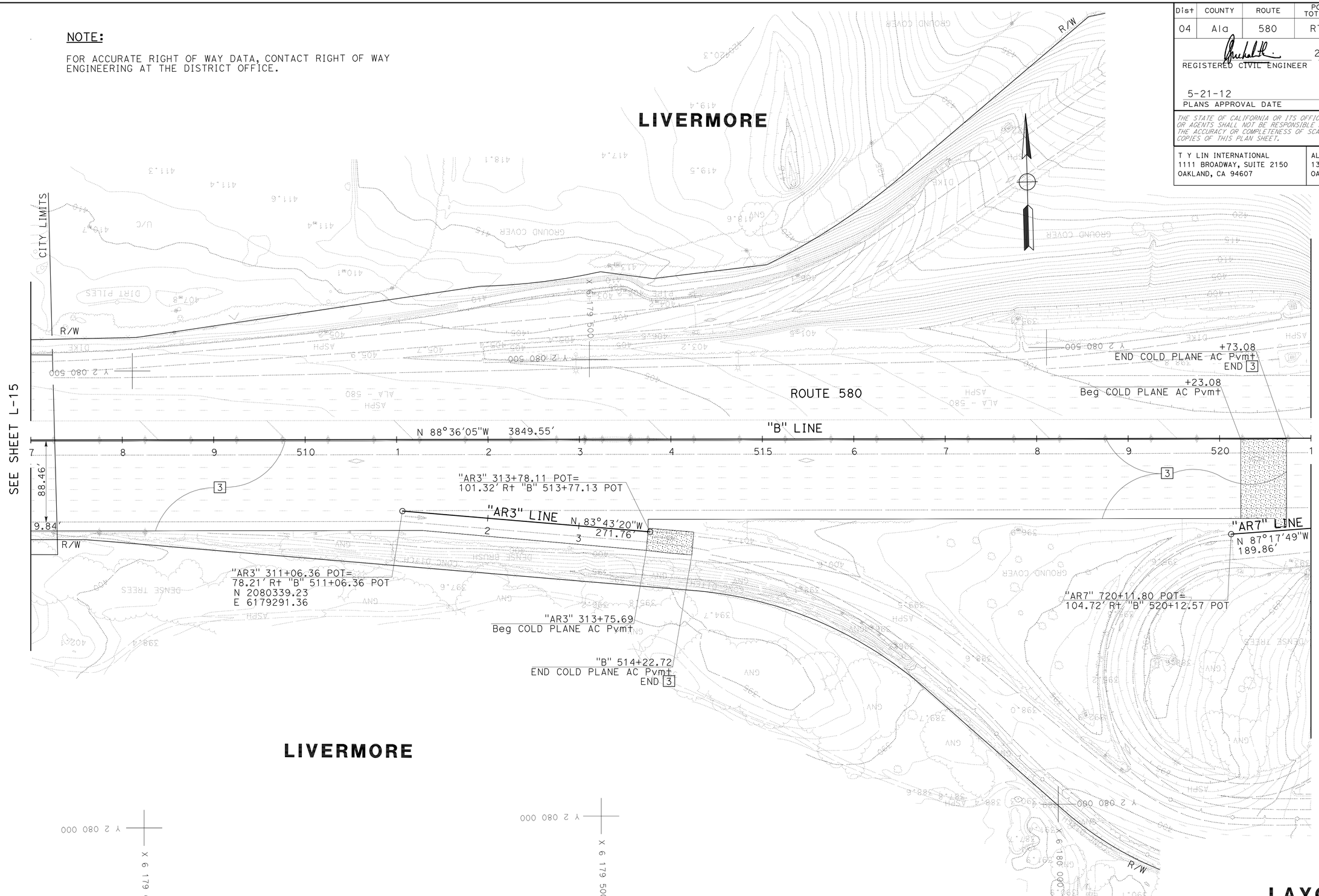

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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DATE REVISED

LAST REVISION 2-22-12
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	38	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SNEHALATHA PAVULURI
No. C78187
Exp. 09/30/13
CIVIL
STATE OF CALIFORNIA

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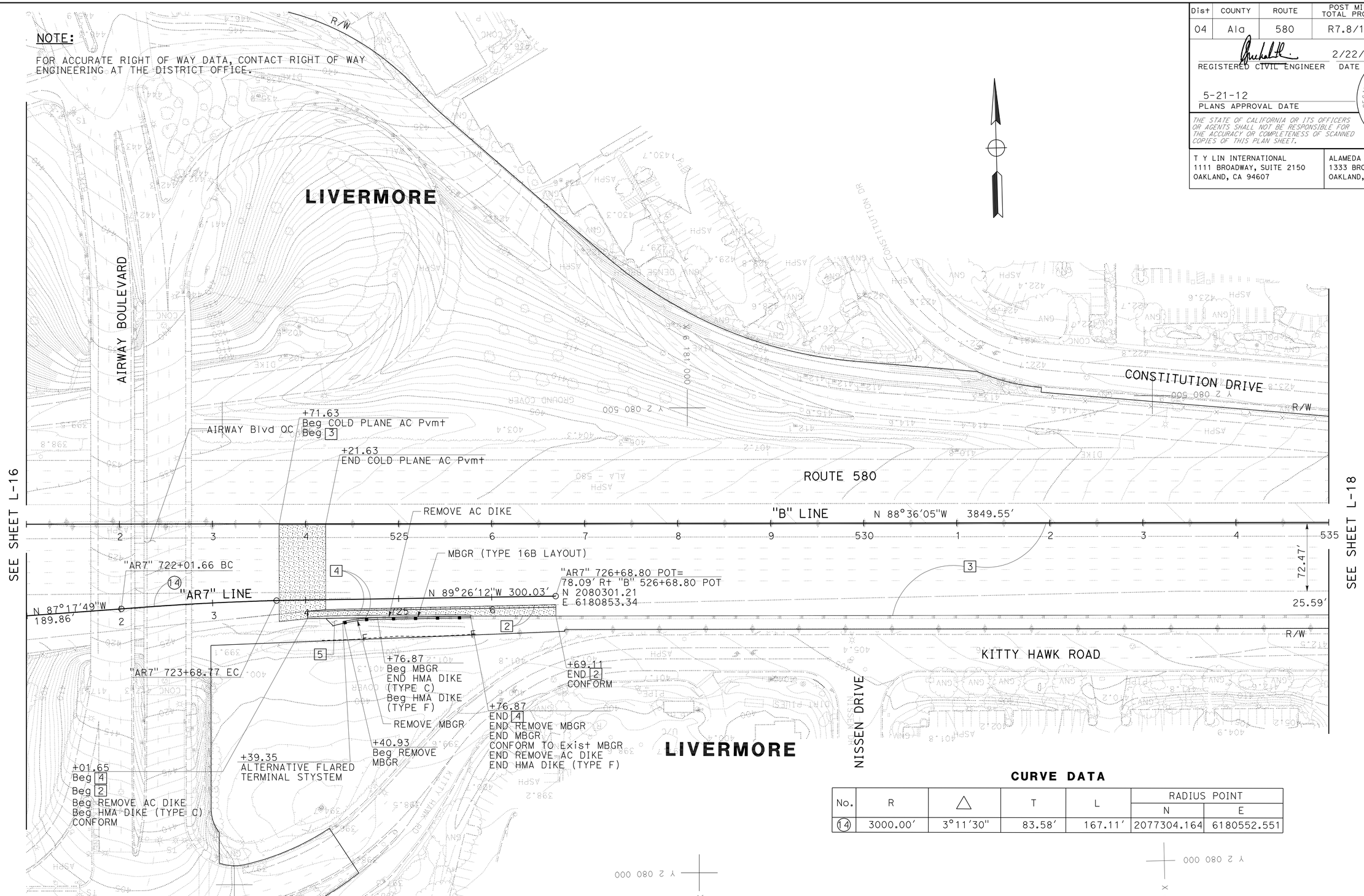
OAKLAND, CA 94607

ALAMEDA CTC
1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
14	3000.00'	3°11'30"	83.58'	167.11'	2077304.164	6180552.551

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-17

REVISED BY | DATE REVISED
SNEHA PAVULURI | NABAZ SAIEED
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
BRIAN KRCELIC
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 2-22-12 | DATE PLOTTED => 21-MAY-2012 | TIME PLOTTED => 10:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	39	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SNEHALATHA PAVULURI
No. C78187
Exp. 09/30/13
CIVIL
STATE OF CALIFORNIA

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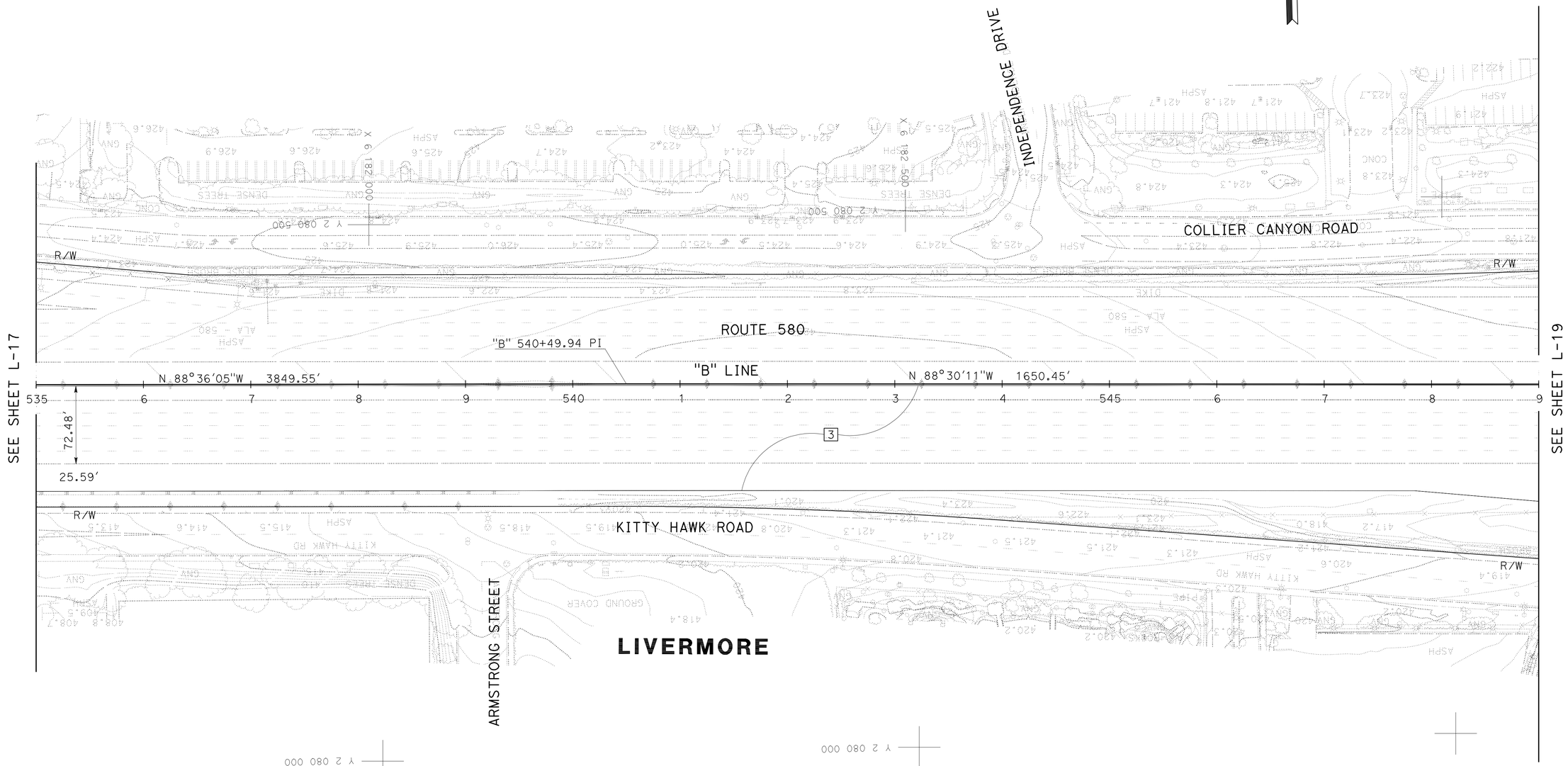

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	40	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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NOTE:

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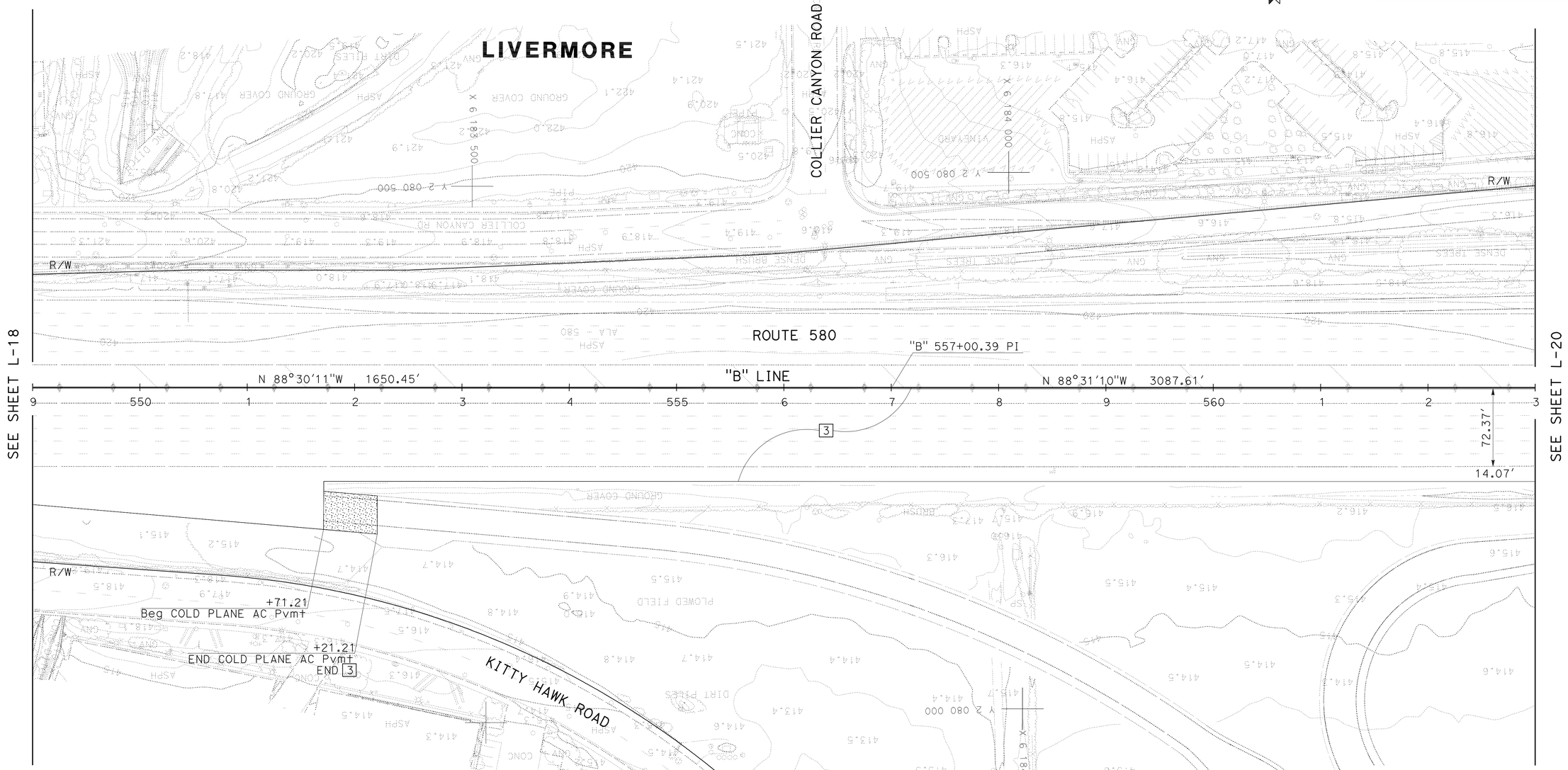

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI

CHECKED BY: NABAZ SAIEED

REVISED BY

DATE REVISED

LAST REVISION 2-22-12

DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	41	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SNEHALATHA PAVULURI
No. C78187
Exp. 09/30/13
CIVIL
STATE OF CALIFORNIA

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NOTE:

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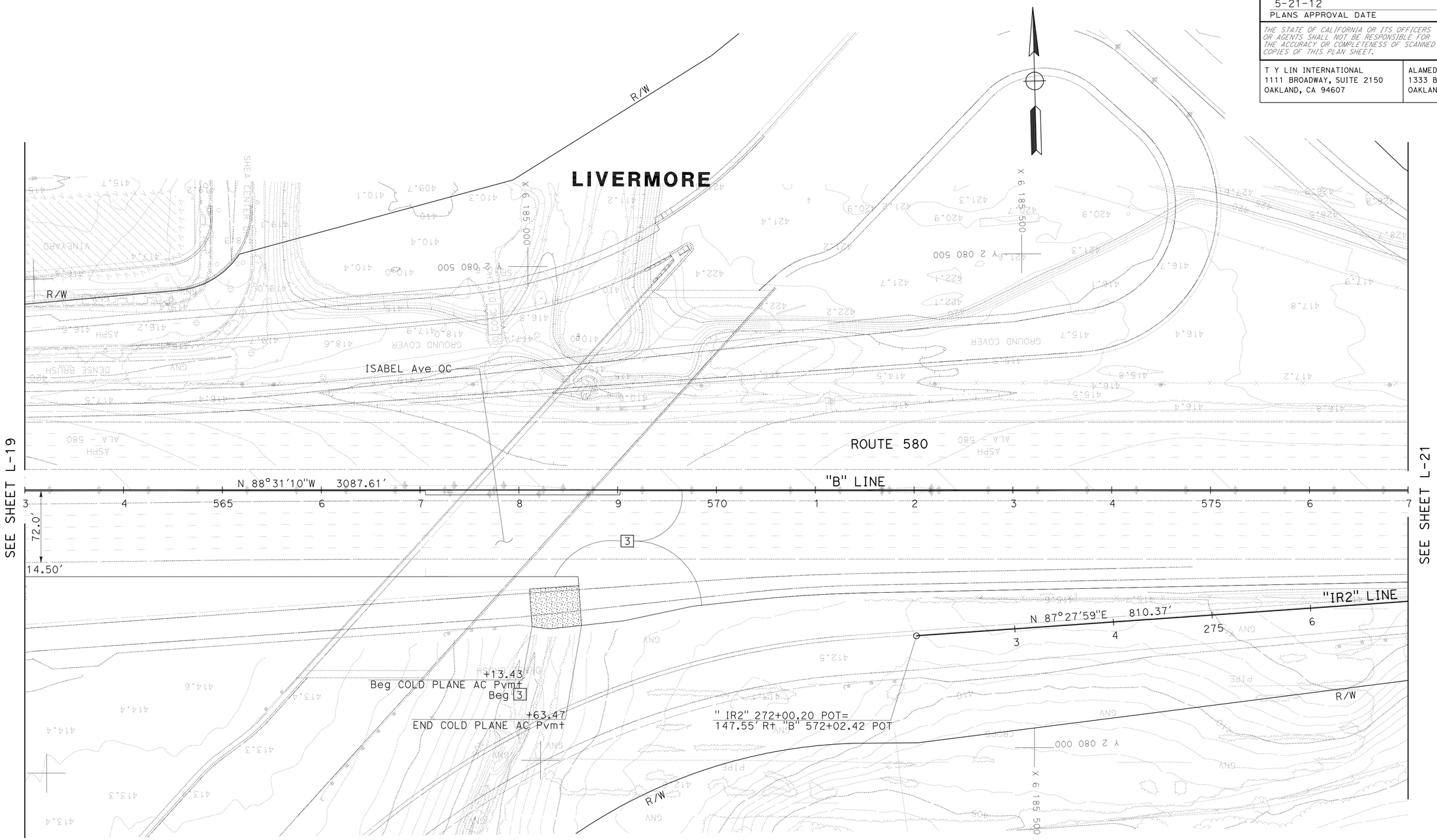

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED

REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	42	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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NOTE:

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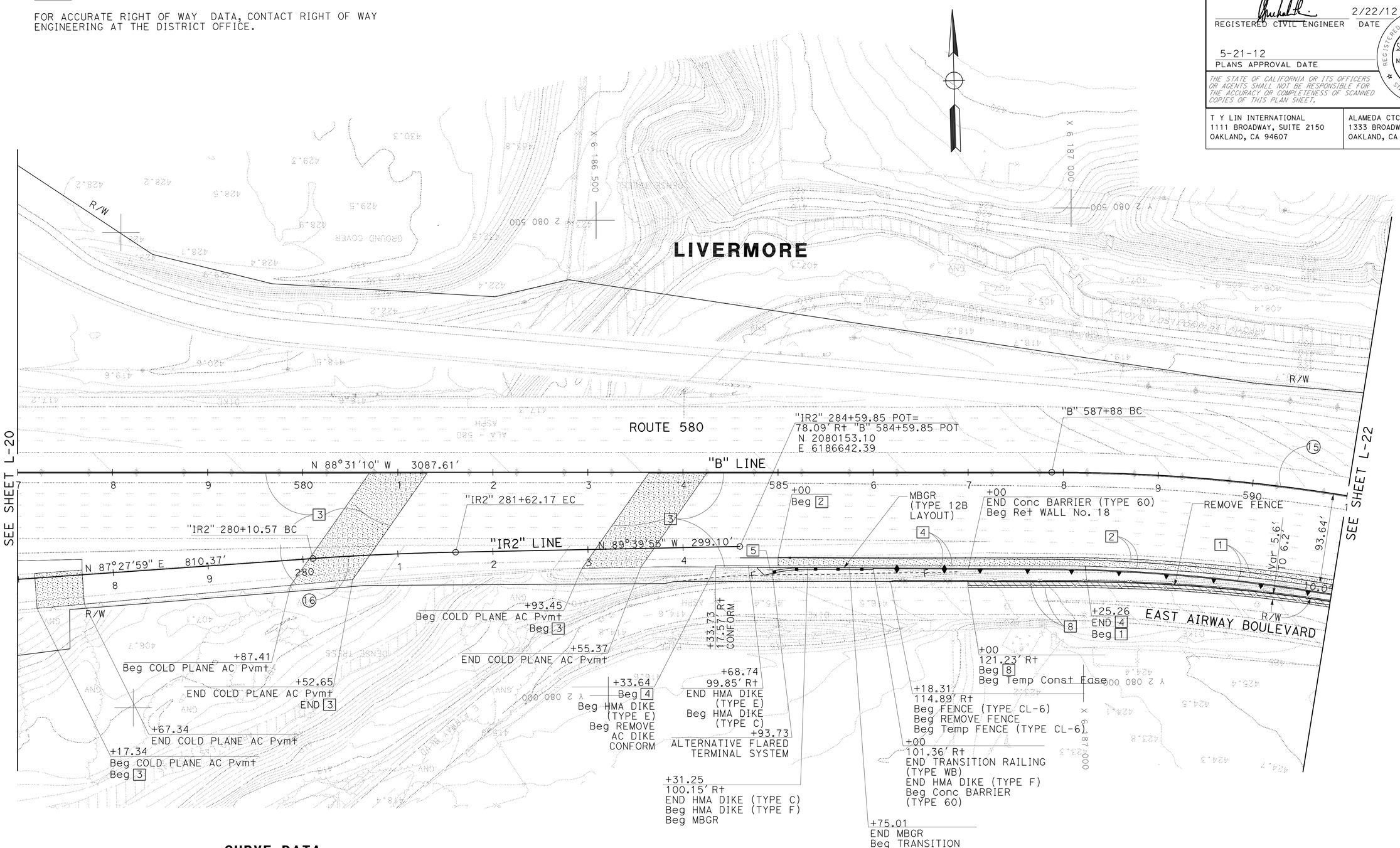

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
15	1966.50'	14°48'26"	255.53'	508.21'	2078256.836	6186921.631
16	3000.00'	2°52'06"	75.11'	150.19'	2077154.895	6186325.769

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI

CHECKED BY: NABAZ SAIEED

REVISED BY

DATE REVISED

LAST REVISION 2-22-12

DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	43	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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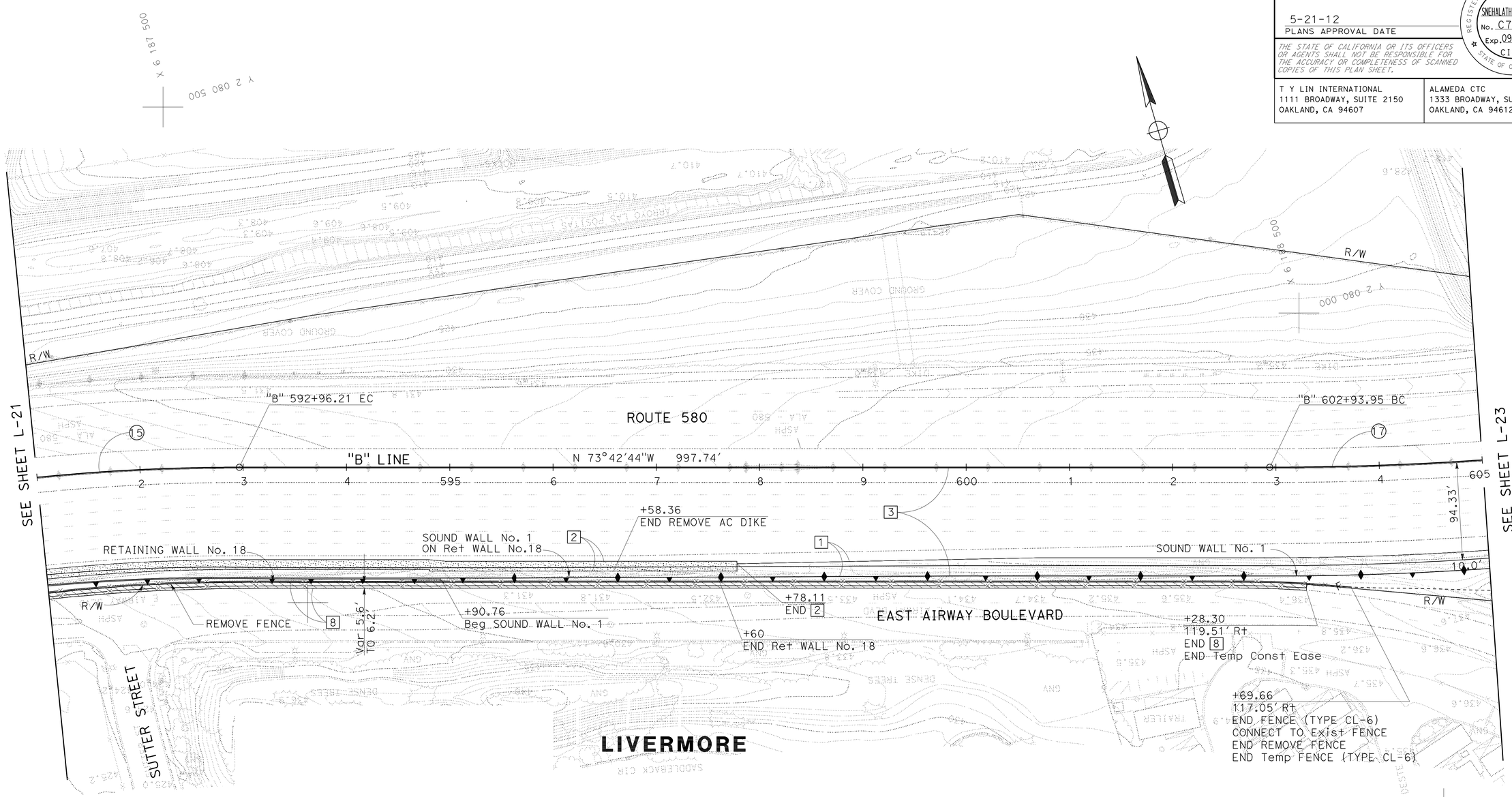

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
15	1966.50'	14°48'26"	255.53'	508.21'	2078256.836	6186921.631
17	3000.00'	21°46'29"	577.02'	1140.12'	2082744.181	6189272.234

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-22

REVISED BY | DATE REVISED
SNEHA PAVULURI | NABAZ SAIEED
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
BRIAN KRCELIC
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 2-22-12 | DATE PLOTTED => 21-MAY-2012 | TIME PLOTTED => 10:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	44	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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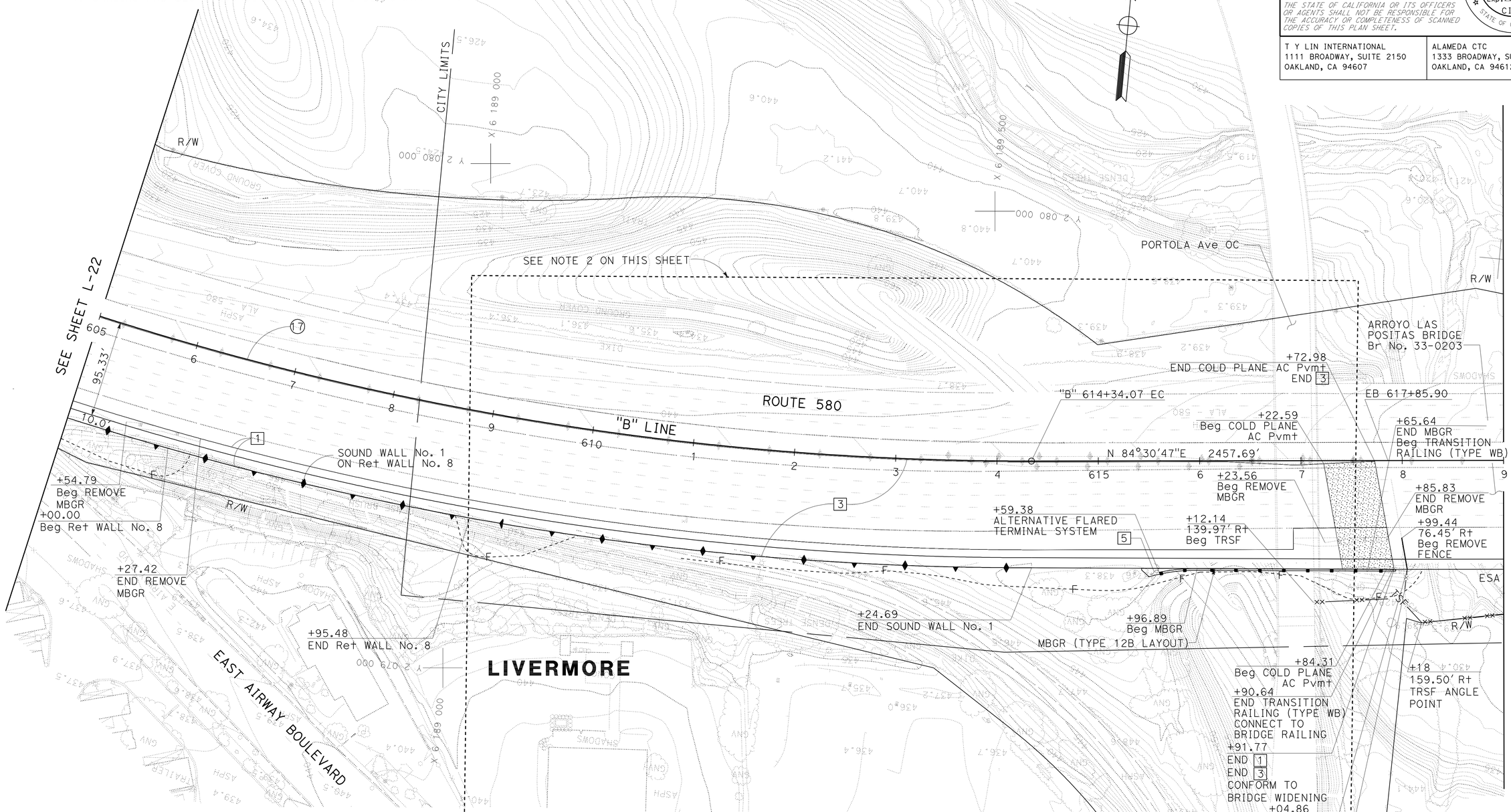
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. AREA SUBJECT TO CHANGES AS PART OF THE ISABEL INTERCHANGE CONSTRUCTION PROJECT (EA 04-171334). CONSTRUCTION IN PROGRESS AND GRADING AND SLOPE ROUNDING CHANGES ARE BEING MADE.



CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
17	3000.00'	21°46'29"	577.02'	1140.12'	2082744.181	6189272.234

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY: SP
DATE REVISED: 5/12

LAST REVISION 5-7-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	45	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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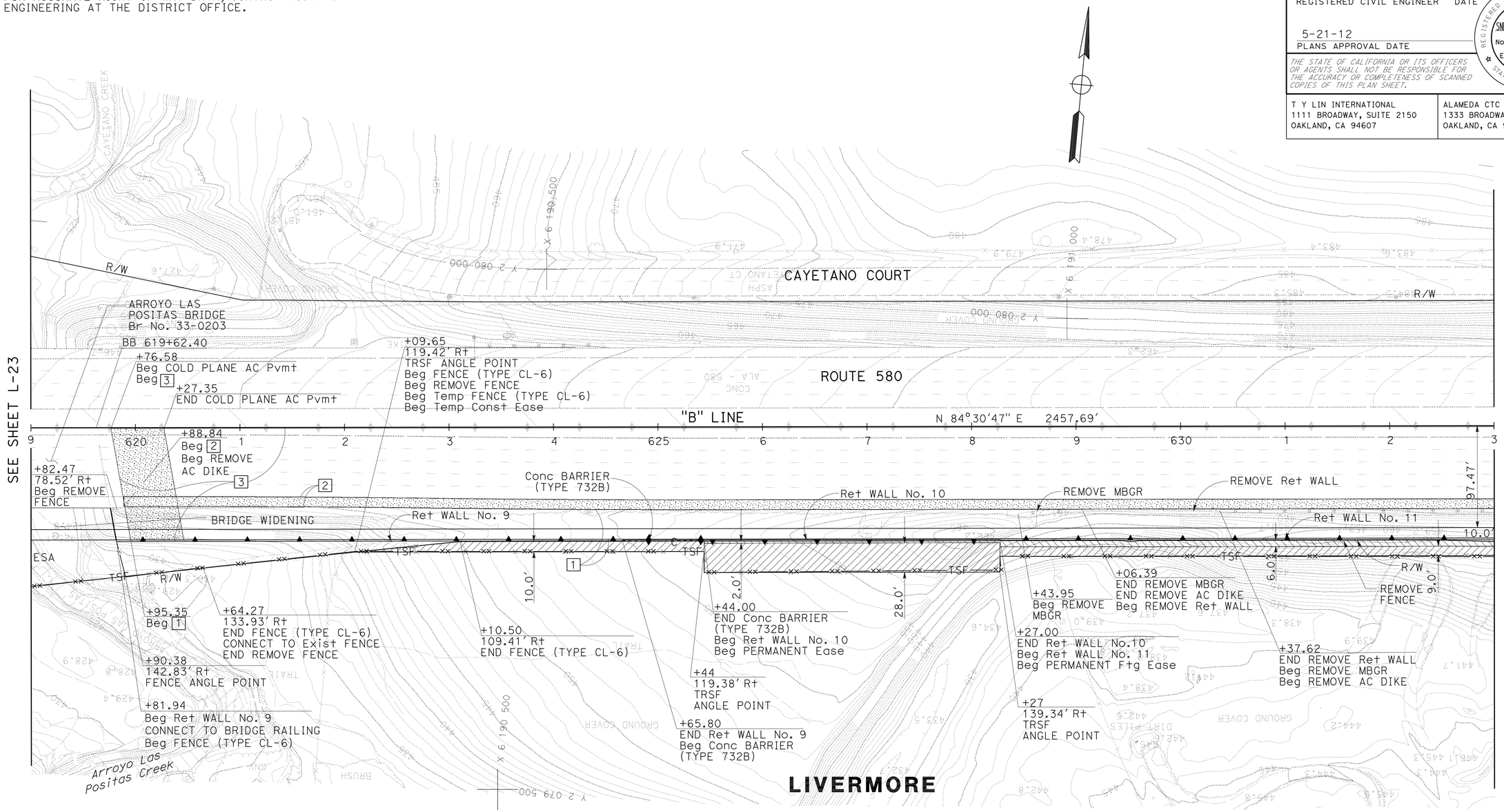

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-24

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY
Caltrans	BRIAN KRCELIC	CHECKED BY	DATE REVISED
	NABAZ SAIEED	SNEHA PAVULURI	5/12 SP

LAST REVISION 5-7-12 DATE PLOTTED => 21-MAY-2012 TIME PLOTTED => 10:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	46	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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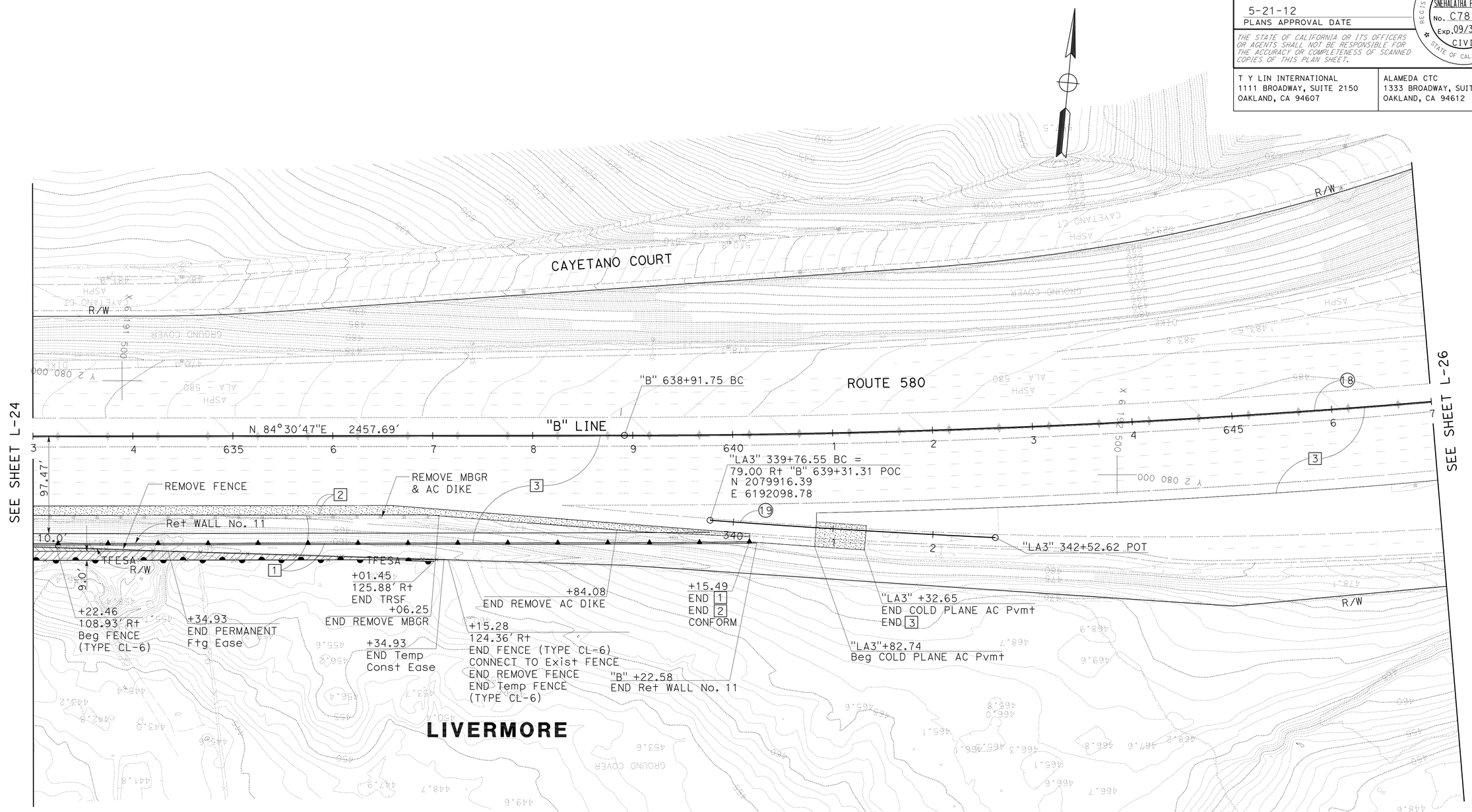

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
18	10000.00'	5°32'15"	483.61'	966.46'	2089947.109	6191049.328
19	10084.82'	0°34'05"	143.00'	285.97'	2089999.339	6191904.702

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	47	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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NOTE:

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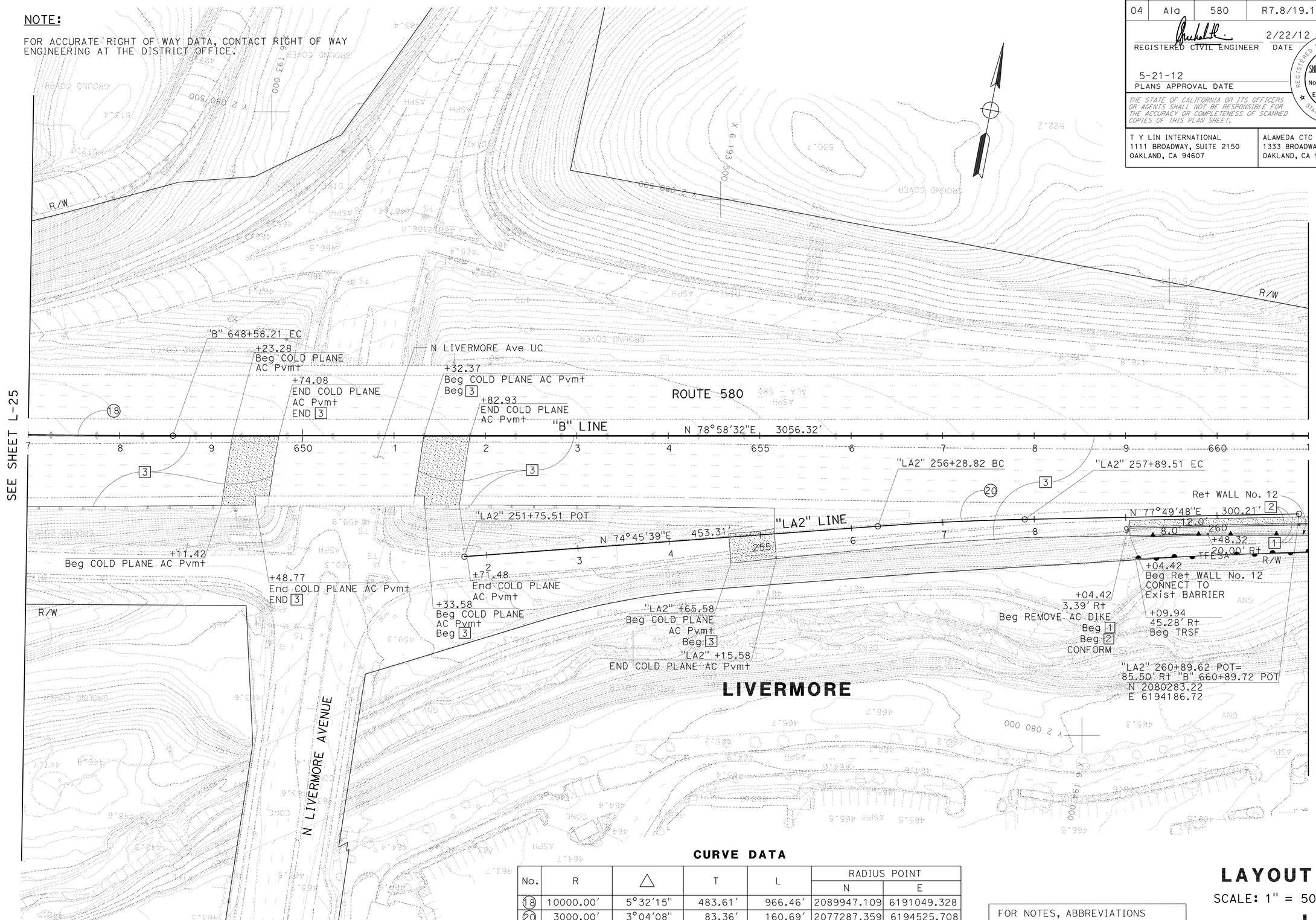

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
18	10000.00'	5°32'15"	483.61'	966.46'	2089947.109	6191049.328
20	3000.00'	3°04'08"	83.36'	160.69'	2077287.359	6194525.708

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI

CHECKED BY: NABAZ SAIEED

REVISED BY

DATE REVISED

LAST REVISION 2-22-12

DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	48	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

NOTE:

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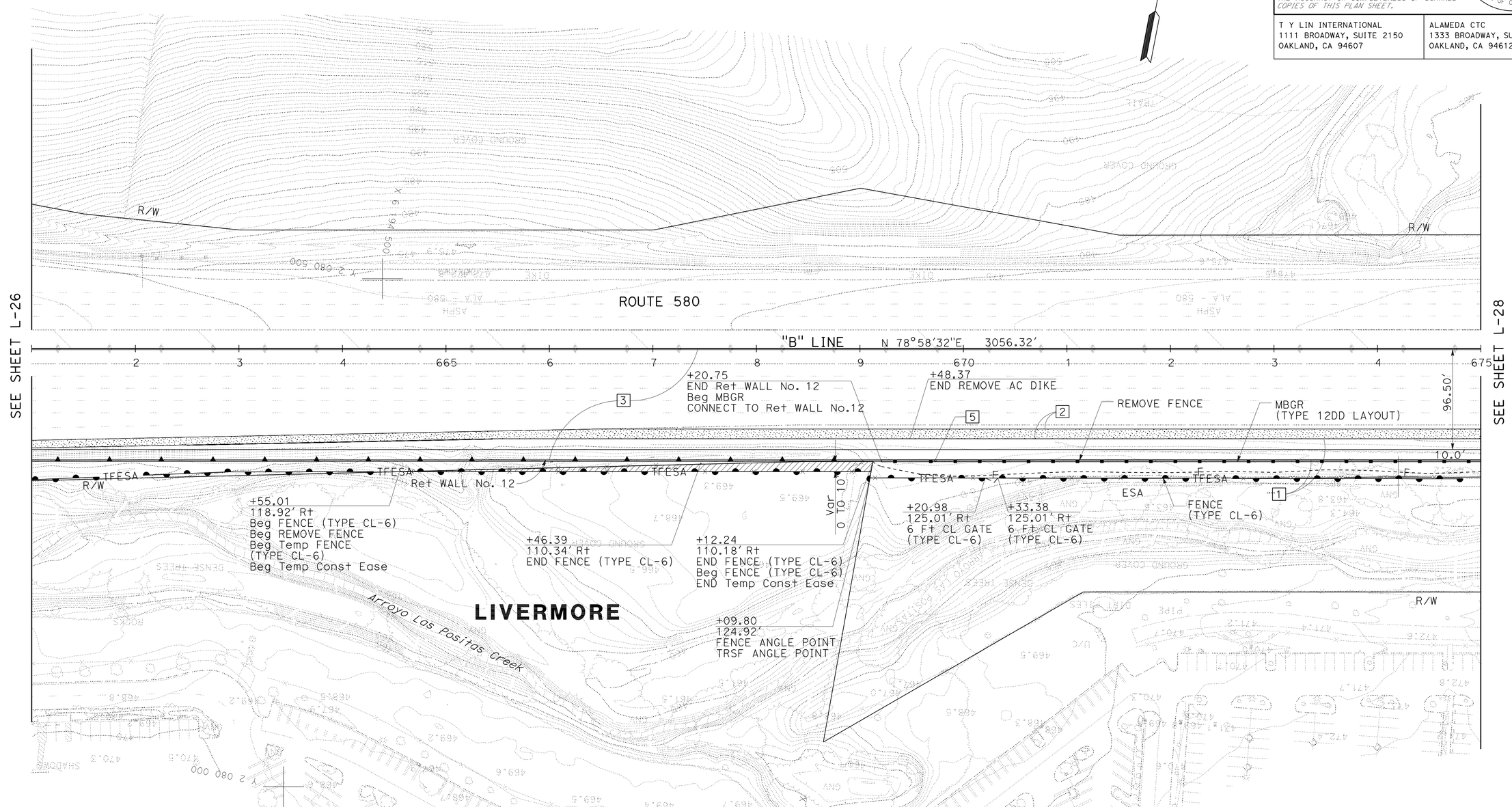

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED

REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	49	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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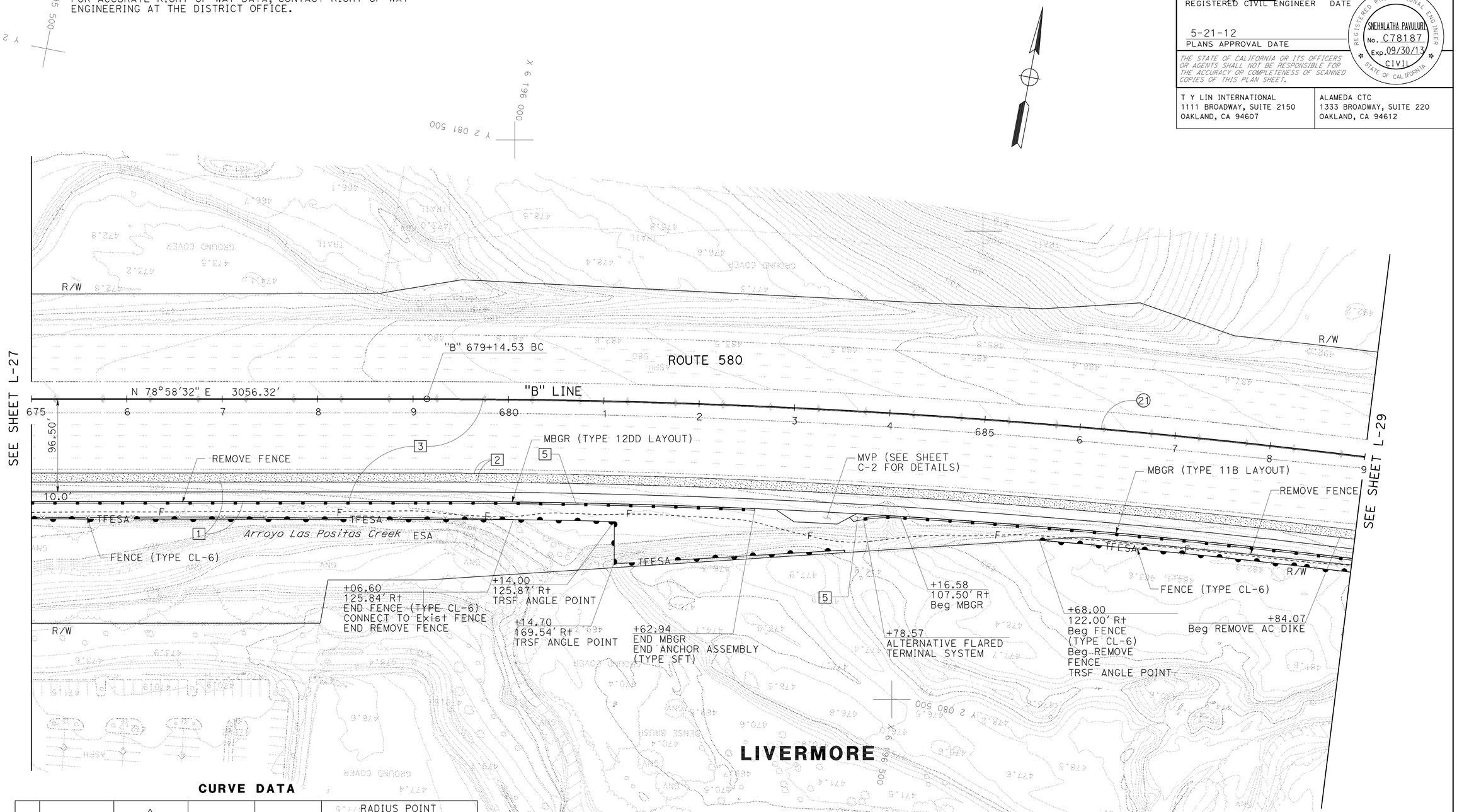

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
21	8000.00'	14°47'59"	1039.00'	2066.43'	2072863.729	6197491.319

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-28

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED

REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	50	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

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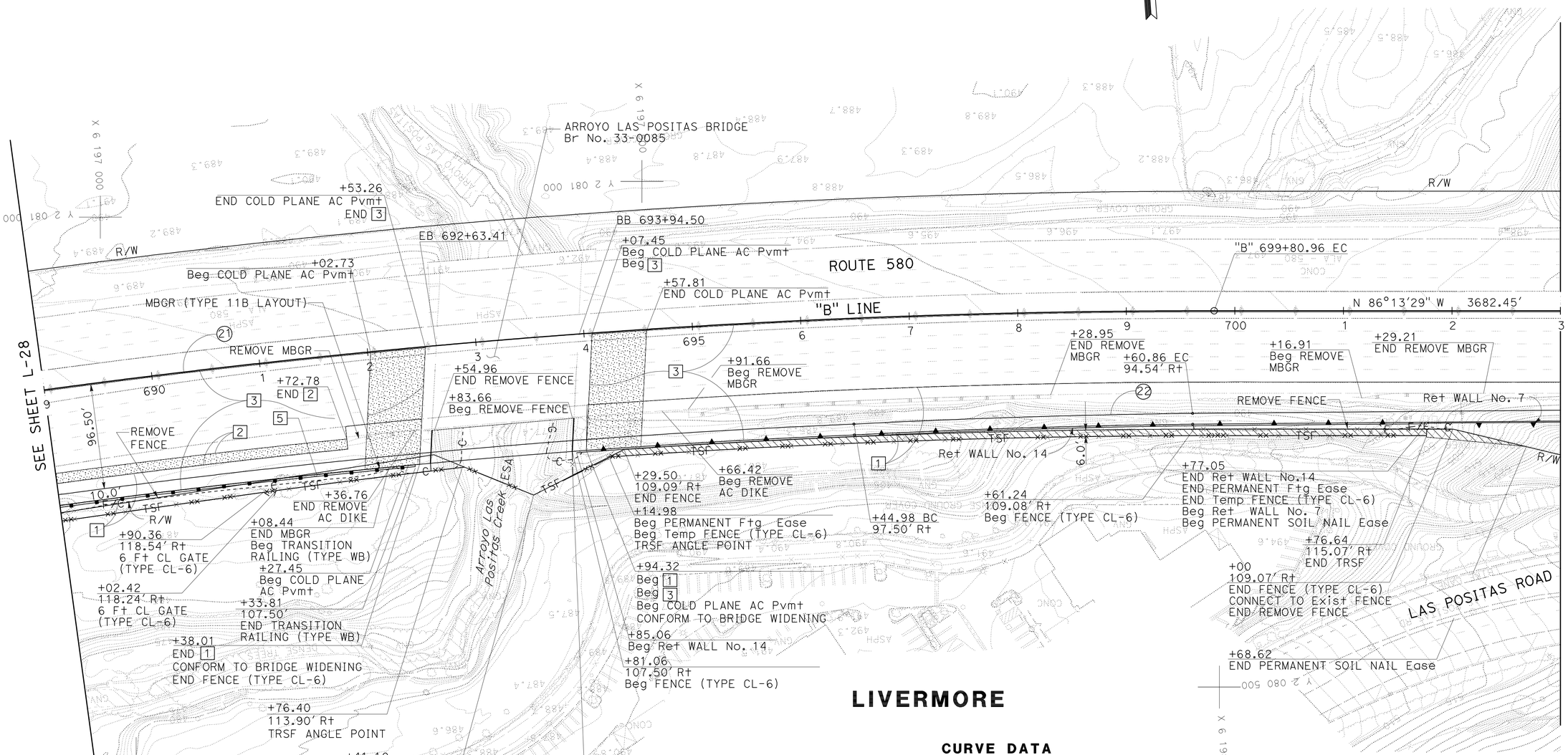

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
21	8000.00'	14°47'59"	1039.00'	2066.43'	2072863.729	6197491.319
22	7912.90'	2°15'36"	156.07'	312.10'	2072851.895	6197565.904

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY: SP
DATE REVISED: 5/12

LAST REVISION 5-7-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	51	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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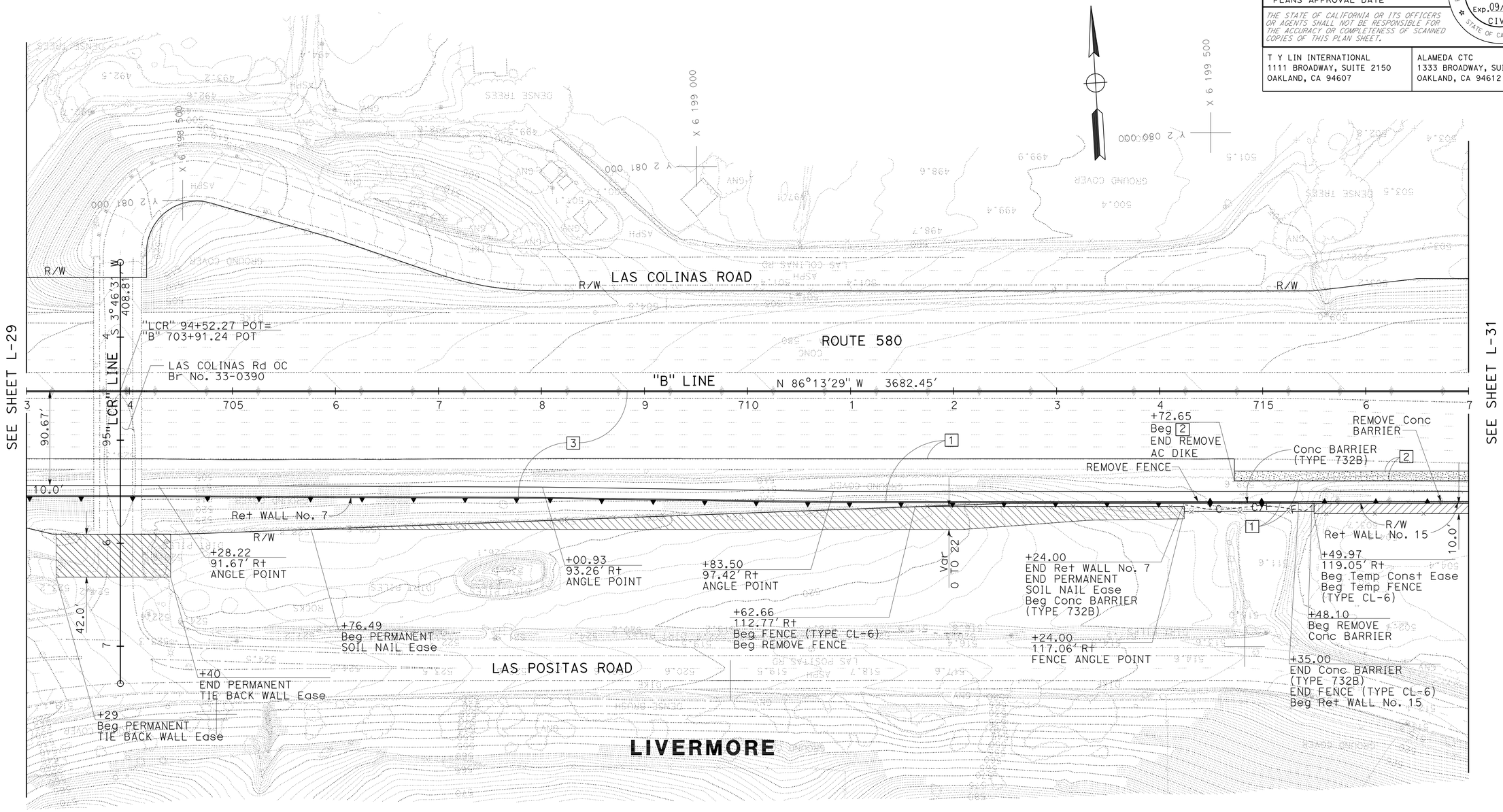
OAKLAND, CA 94612

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-30

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI

CHECKED BY: NABAZ SAIEED

REVISED BY

DATE REVISED

LAST REVISION 2-22-12

DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	52	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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OAKLAND, CA 94607

ALAMEDA CTC
1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

NOTE:

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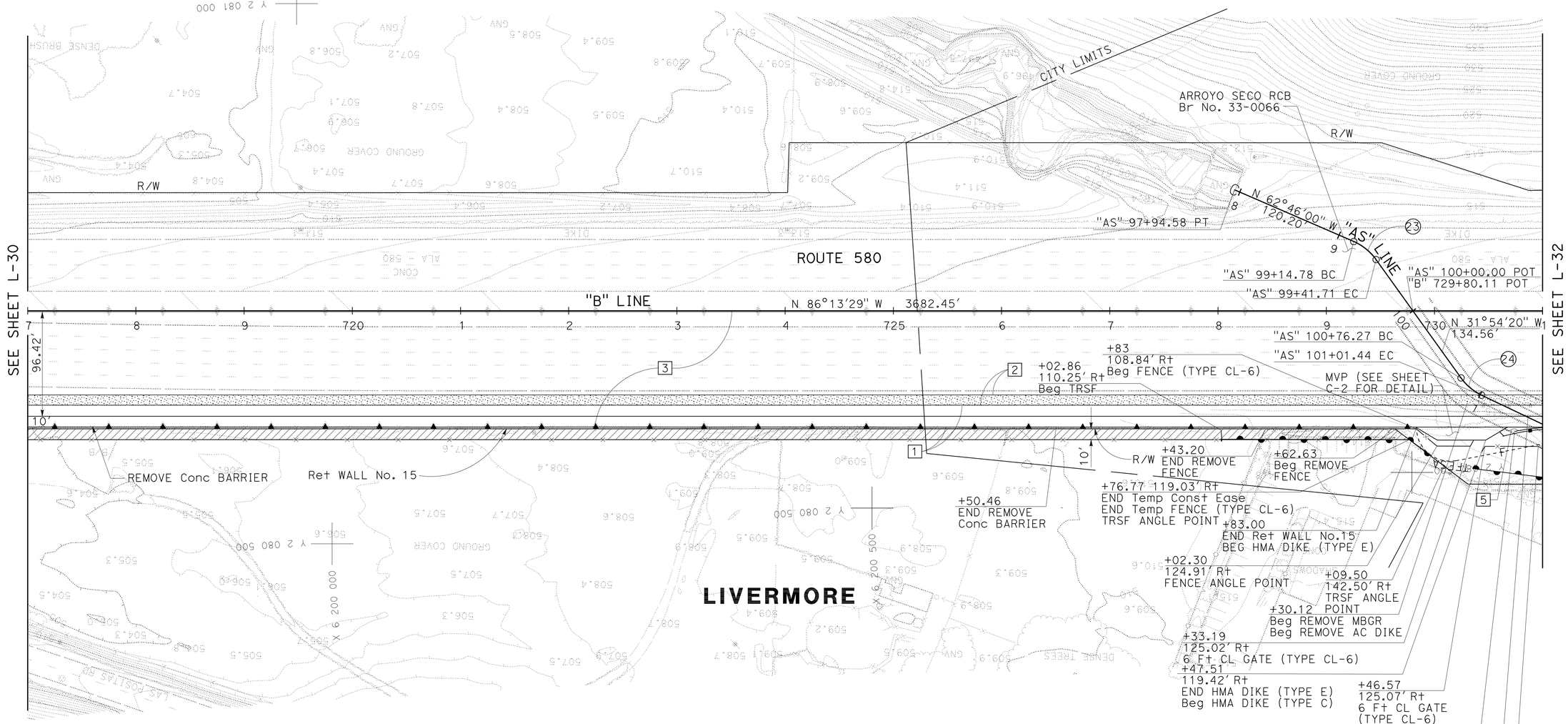

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
23	50.00'	30°51'40"	13.80'	26.93'	2080671.949	6200937.458
24	50.00'	28°50'51"	12.86'	25.17'	2080610.573	6201093.466

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	53	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

NOTE:

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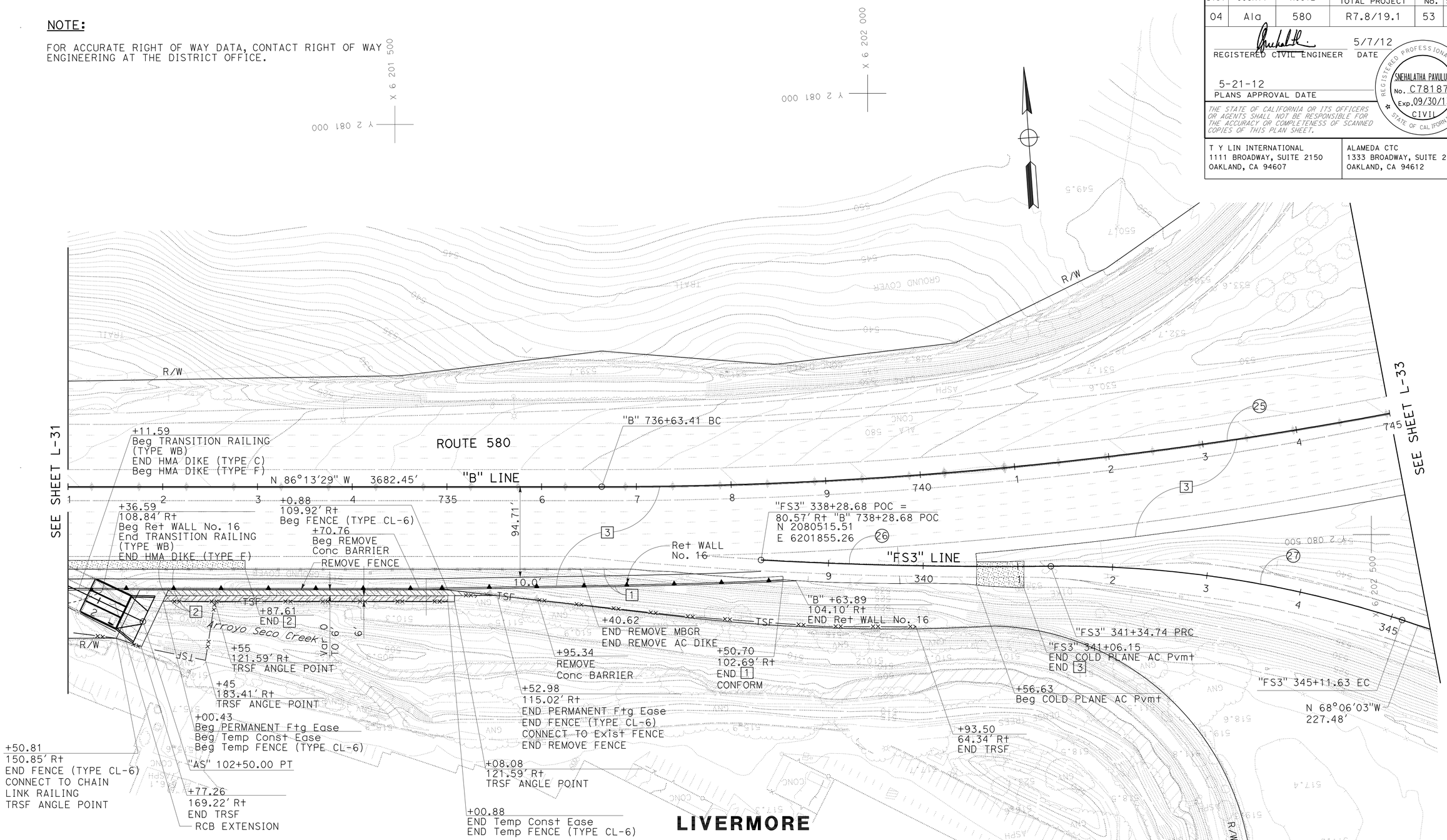

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
25	4500.00'	31°01'39"	1249.12'	2436.89'	2085094.132	6201988.837
26	4576.00'	03°49'56"	153.09'	306.07'	2085058.162	6202406.695
27	1148.00'	04°29'27"	190.15'	376.89'	2079342.479	6202098.232

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI

CHECKED BY: NABAZ SAIEED

REVISED BY: SP

DATE REVISED: 5/12

LAST REVISION 5-7-12

DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	54	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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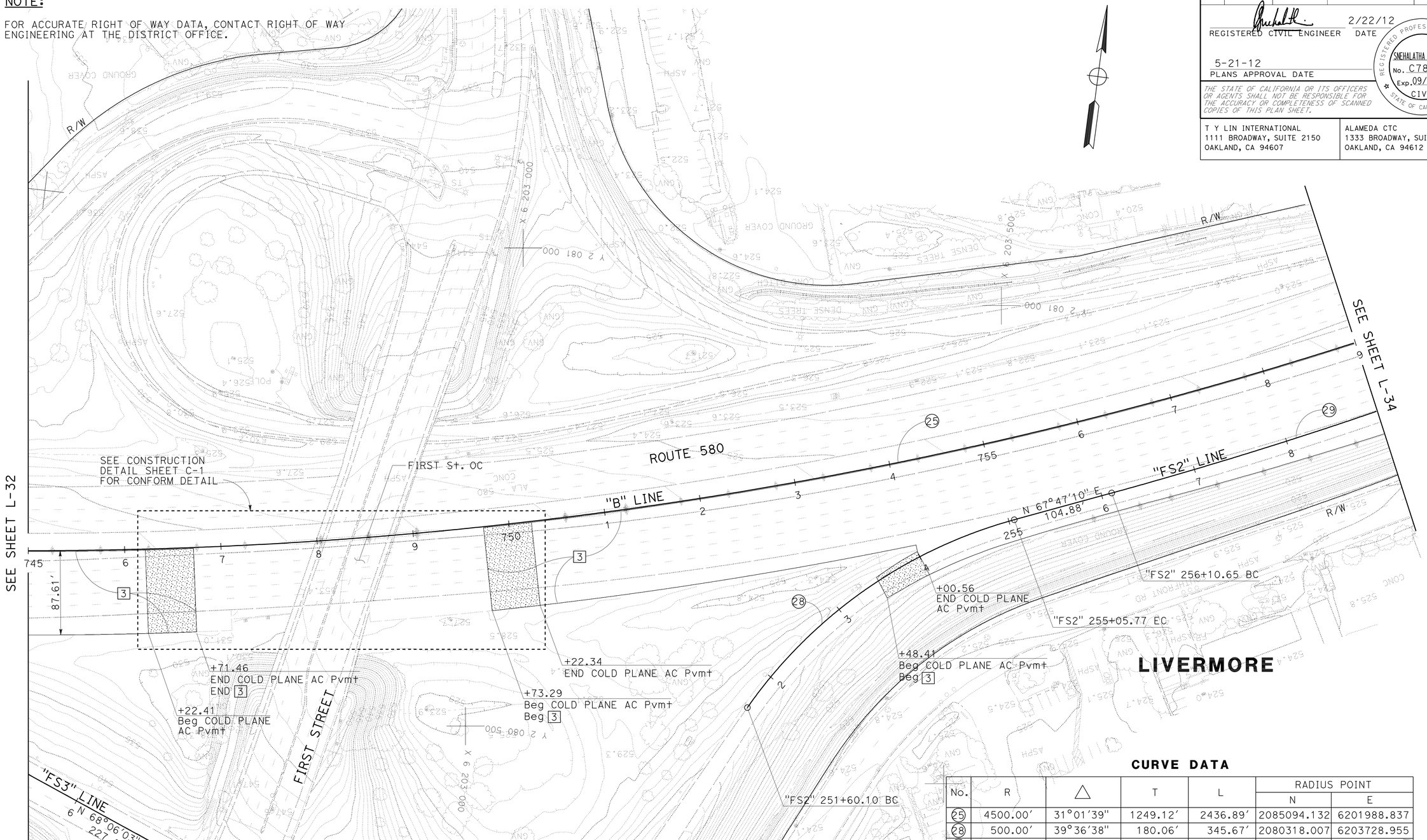
1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
25	4500.00′	31°01′39"	1249.12′	2436.89′	2085094.132	6201988.837
28	500.00′	39°36′38"	180.06′	345.67′	2080318.007	6203728.955
29	4573.48′	04°10′53"	166.96′	333.77′	2085054.581	6201907.942

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50′

L-33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED

REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	55	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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OAKLAND, CA 94612

NOTE:

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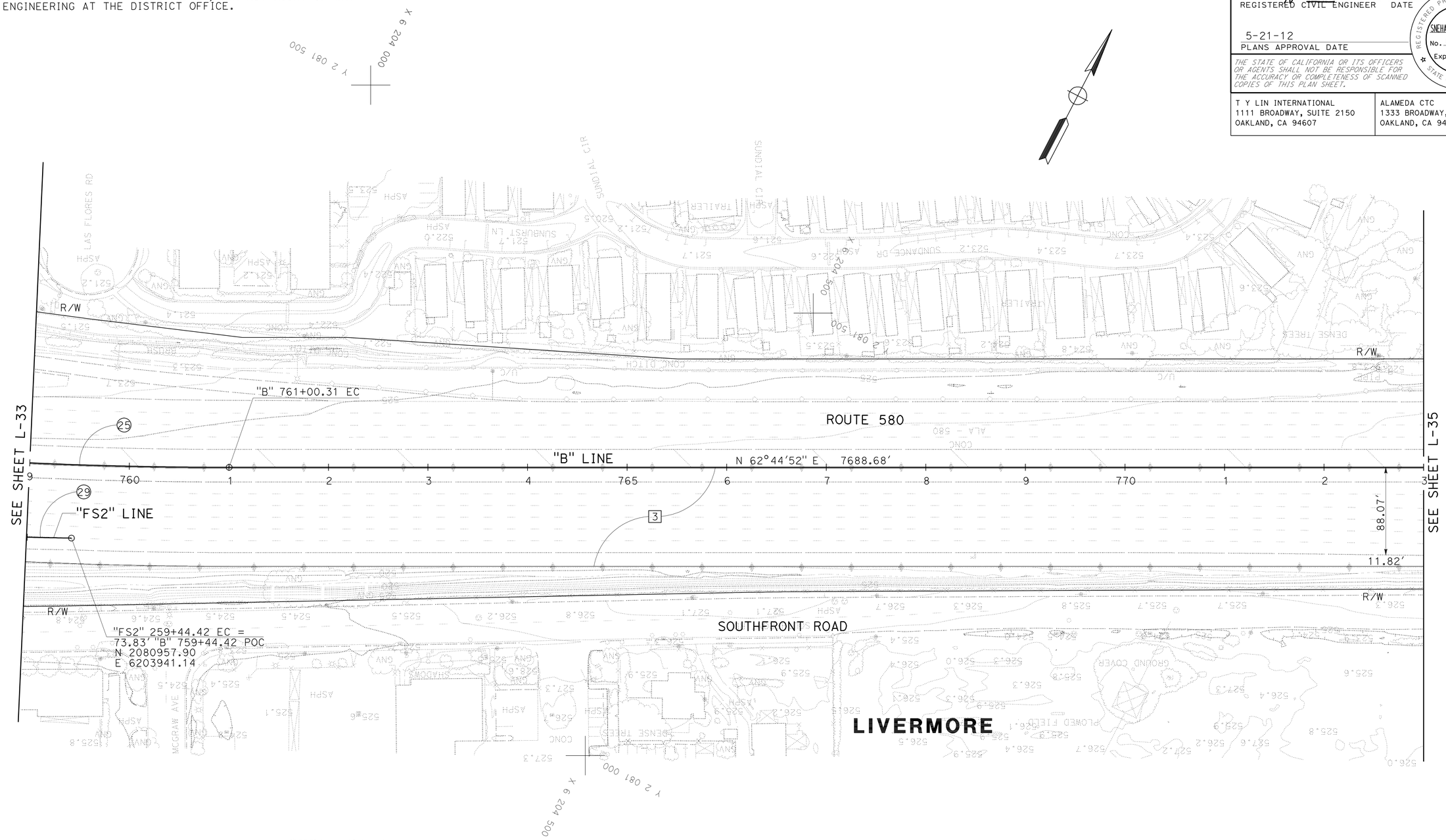

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
25	4500.00′	31°01′39"	1249.12′	2436.89′	2085094.132	6201988.837
29	4573.48′	04°10′53"	166.96′	333.77′	2085054.581	6201907.942

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50′

L-34

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	56	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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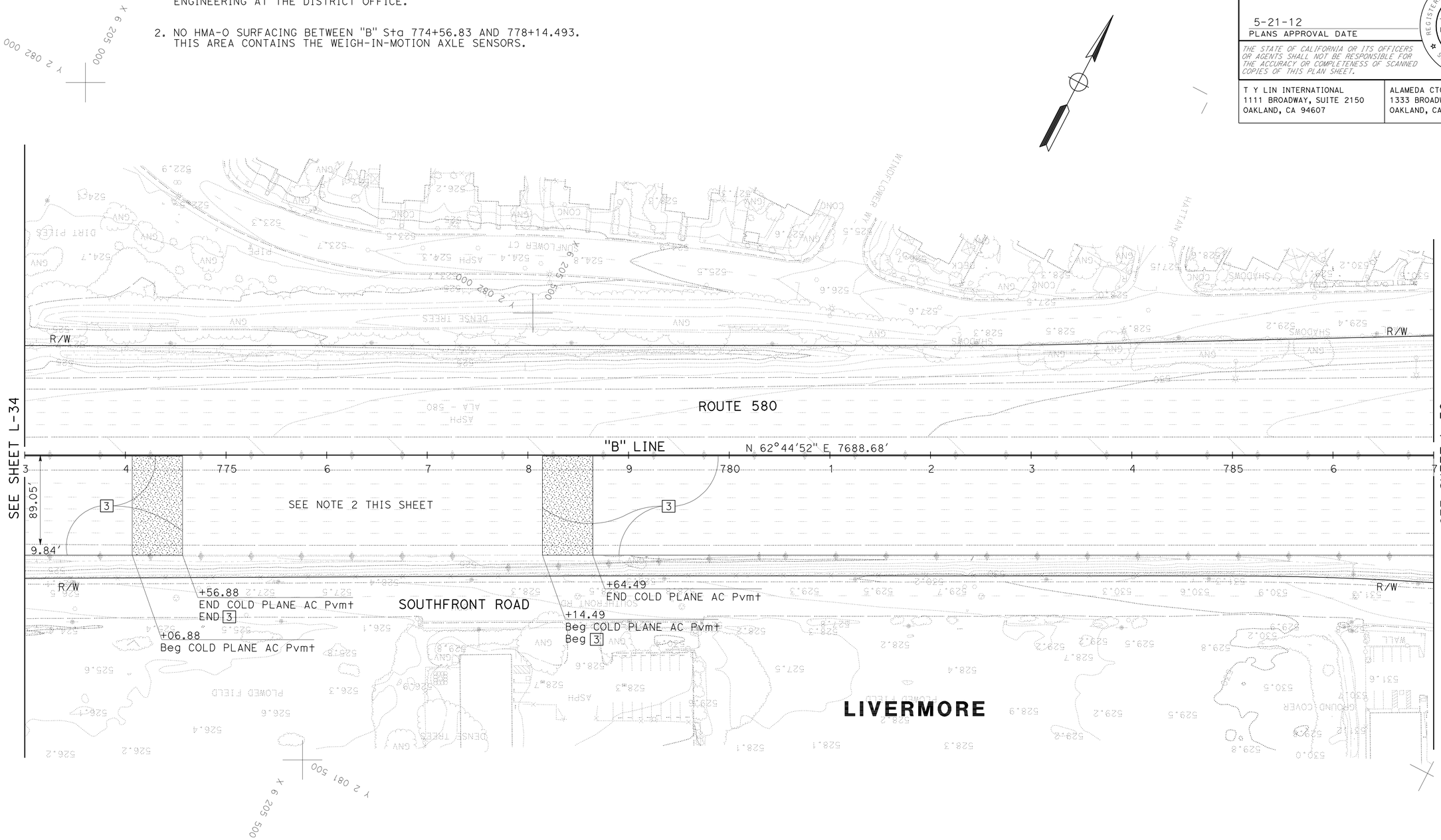
OAKLAND, CA 94607

ALAMEDA CTC
1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. NO HMA-O SURFACING BETWEEN "B" Sta 774+56.83 AND 778+14.493. THIS AREA CONTAINS THE WEIGH-IN-MOTION AXLE SENSORS.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	57	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SNEHALATHA PAVULURI
No. C78187
Exp. 09/30/13
CIVIL
STATE OF CALIFORNIA

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OAKLAND, CA 94612

NOTE:

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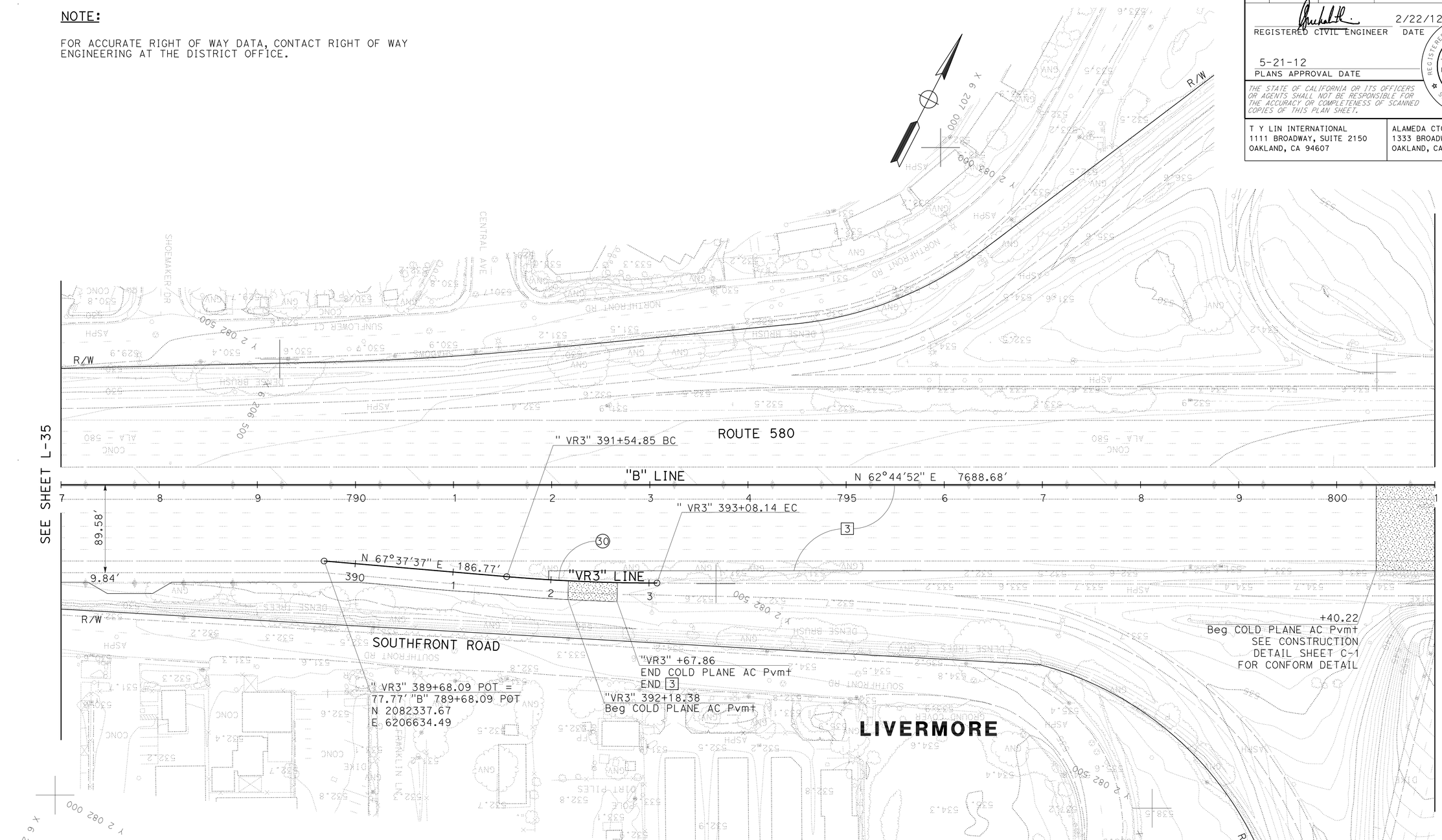

CURVE DATA

No.	R	△	T	L	RADIUS POINT	
					N	E
30	1800.00'	04°52'45"	76.69'	153.28'	2084073.265	6206122.053

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-36

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	58	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SNEHALATHA PAVULURI
No. C78187
Exp. 09/30/13
CIVIL
STATE OF CALIFORNIA

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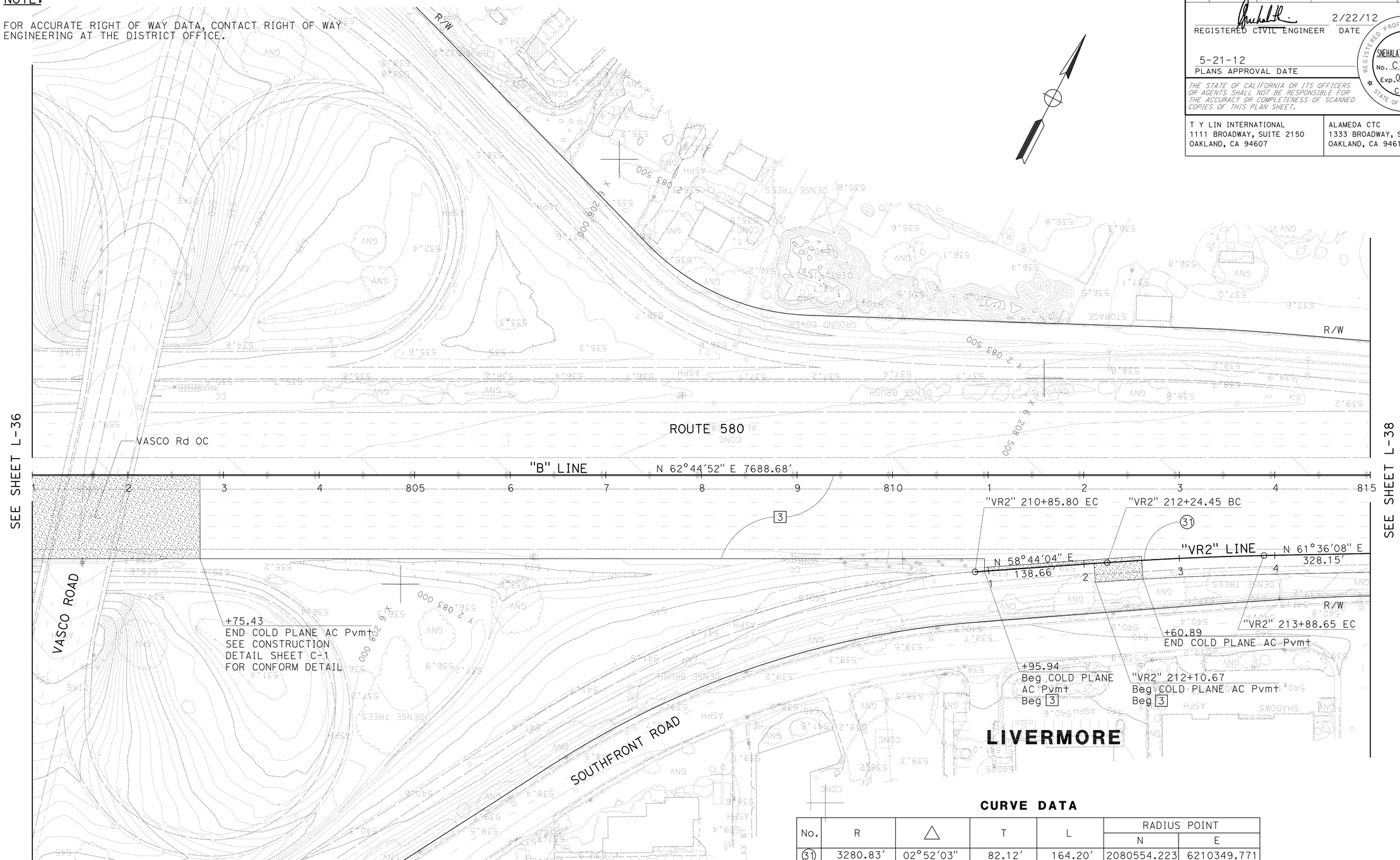
ALAMEDA CTC
1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURVE DATA

No.	R	△	T	L	RADIUS POINT	
					N	E
31	3280.83′	02°52′03"	82.12′	164.20′	2080554.223	6210349.771

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50′

L-37

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	59	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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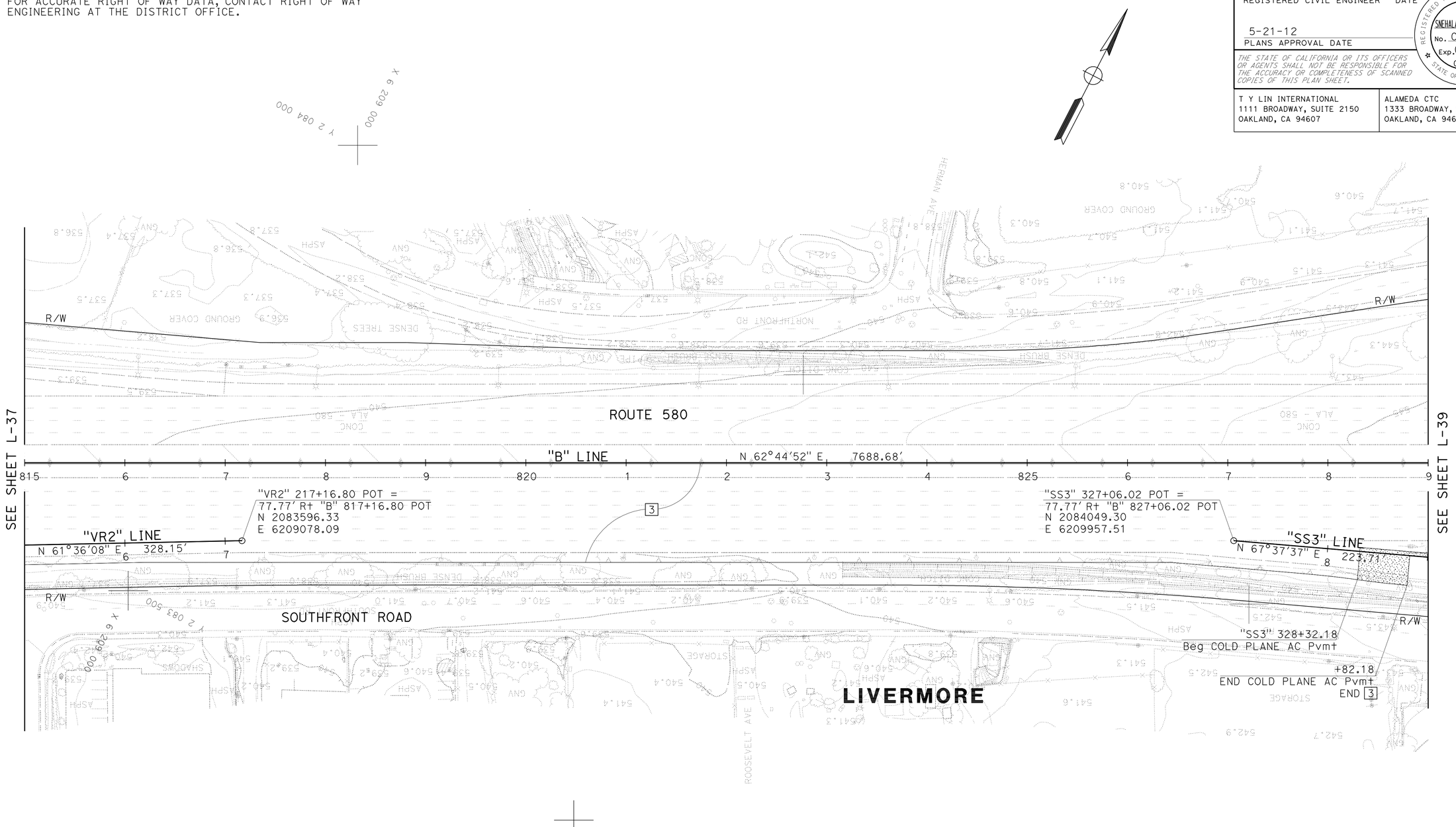
1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-38

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI

CHECKED BY: NABAZ SAIEED

REVISED BY

DATE REVISED

LAST REVISION 2-22-12

DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	60	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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OAKLAND, CA 94607

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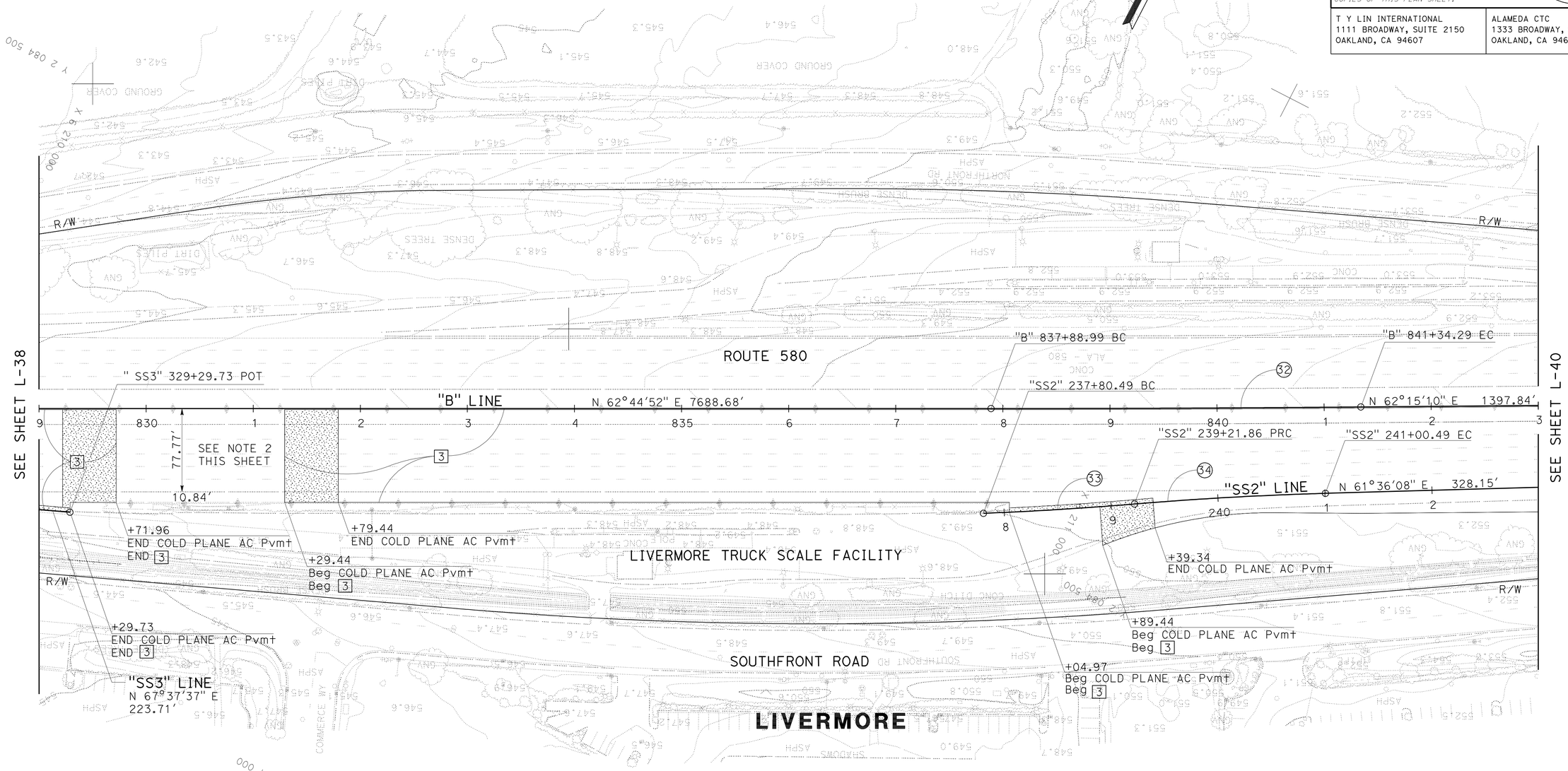
OAKLAND, CA 94612

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

2. NO HMA-O SURFACING BETWEEN "B" Sta 829+71.96 AND 831+29.44. THIS AREA CONTAINS THE WEIGH-IN-MOTION AXLE SENSORS.



CURVE DATA

No.	R	Δ	T	L	RADIUS POINT N	RADIUS POINT E
32	39968.00'	00°29'42"	172.65'	345.30'	2120145.888	6192583.027
33	3280.83'	03°57'11"	89.33'	178.62'	2081814.466	6212783.728
34	3280.83'	02°28'08"	70.70'	141.37'	2087378.326	6209305.376

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-39

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI

CHECKED BY: NABAZ SAIEED

REVISED BY

DATE REVISED

LAST REVISION 2-22-12

DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	61	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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OAKLAND, CA 94607

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OAKLAND, CA 94612

NOTE:

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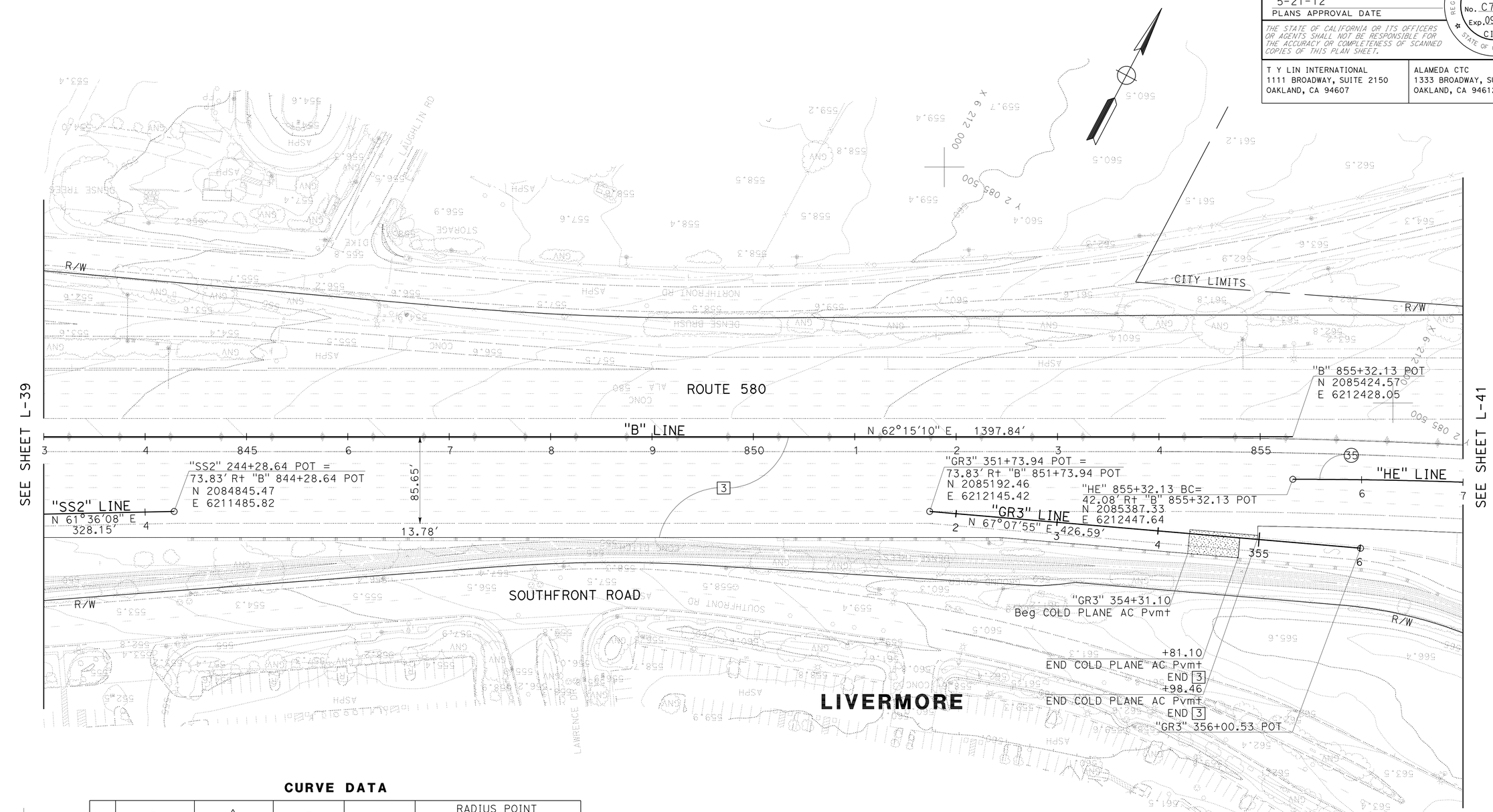

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
35	5000.00'	13°55'27"	610.57'	1215.12'	2080962.274	6214775.495

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-40

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI

CHECKED BY: NABAZ SAIEED

REVISED BY

DATE REVISED

LAST REVISION 2-22-12

DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	62	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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NOTE:

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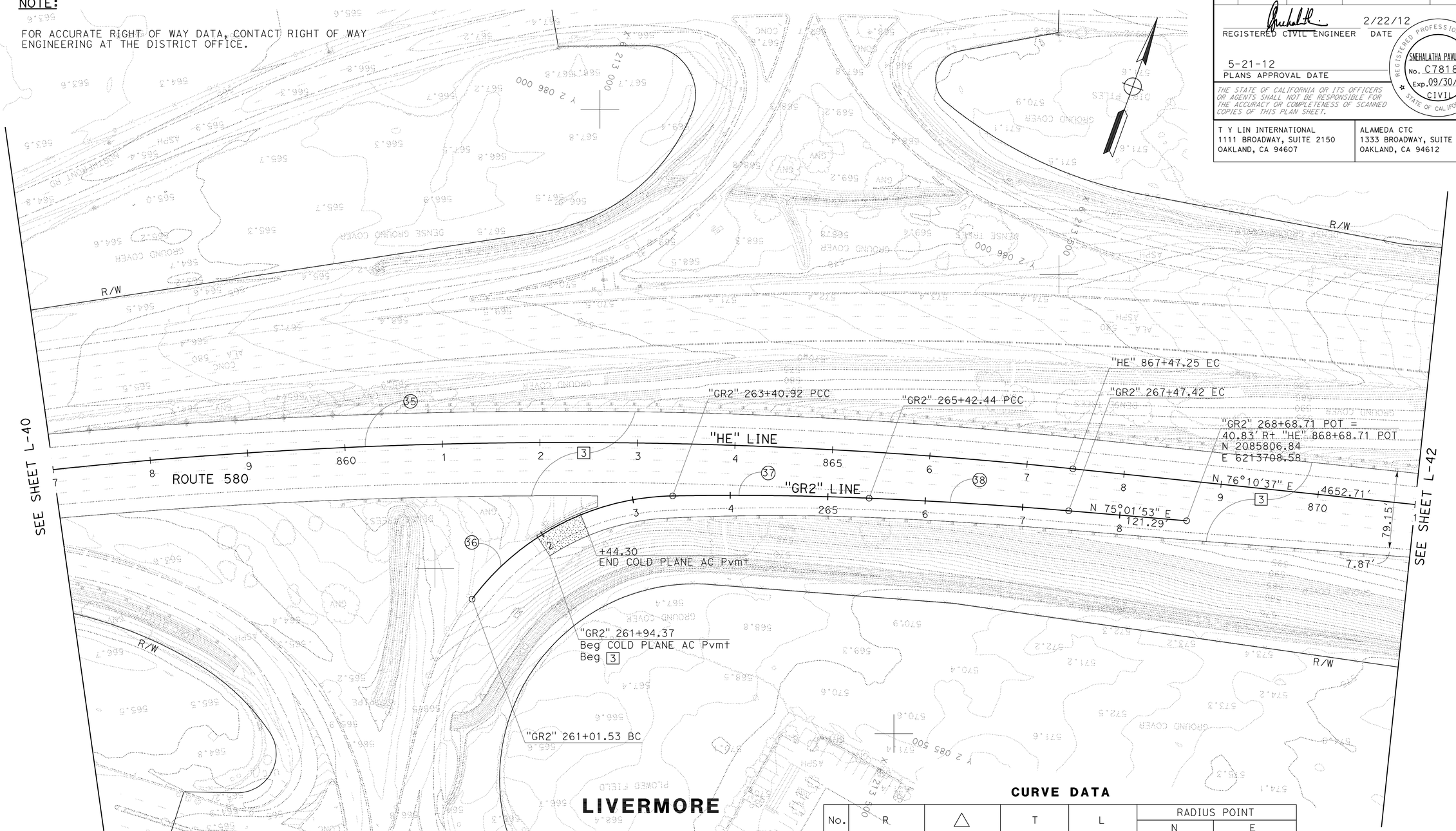

CURVE DATA

No.	R	△	T	L	RADIUS POINT N	RADIUS POINT E
35	5000.00'	13°55'27"	610.57'	1215.12'	2080962.274	6214775.495
36	262.47'	52°15'32"	128.75'	239.39'	2085407.236	6213297.688
37	3280.83'	03°31'09"	100.79'	201.51'	2082586.985	6214373.198
38	4921.25'	02°23'12"	102.51'	204.99'	2081021.251	6214862.528

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-41

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	63	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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OAKLAND, CA 94607

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OAKLAND, CA 94612

NOTE:

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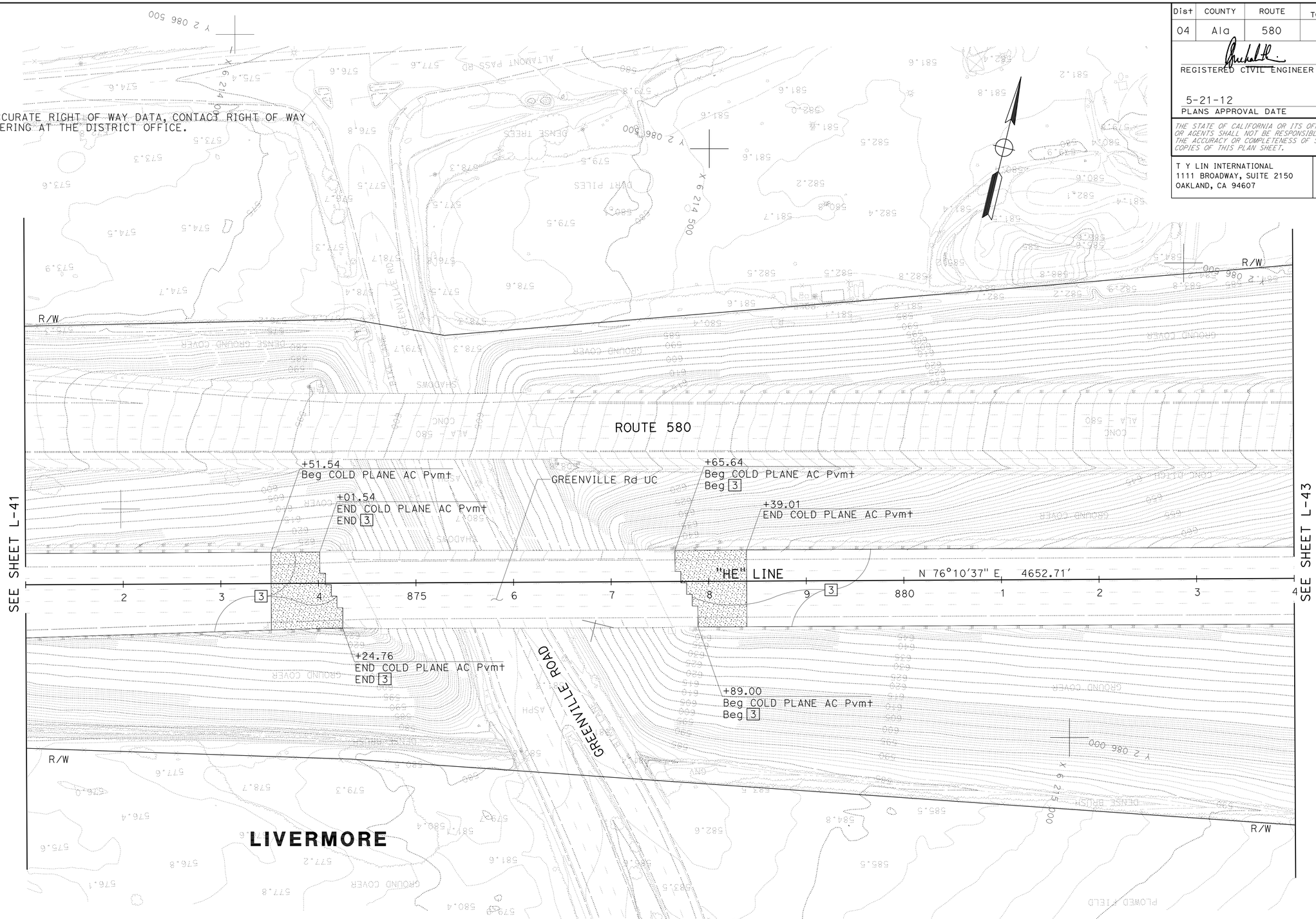

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-42

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

SNEHA PAVULURI — NABAZ SAIEED

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

LAST REVISION 2-22-12 | DATE PLOTTED => 21-MAY-2012 | TIME PLOTTED => 10:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	64	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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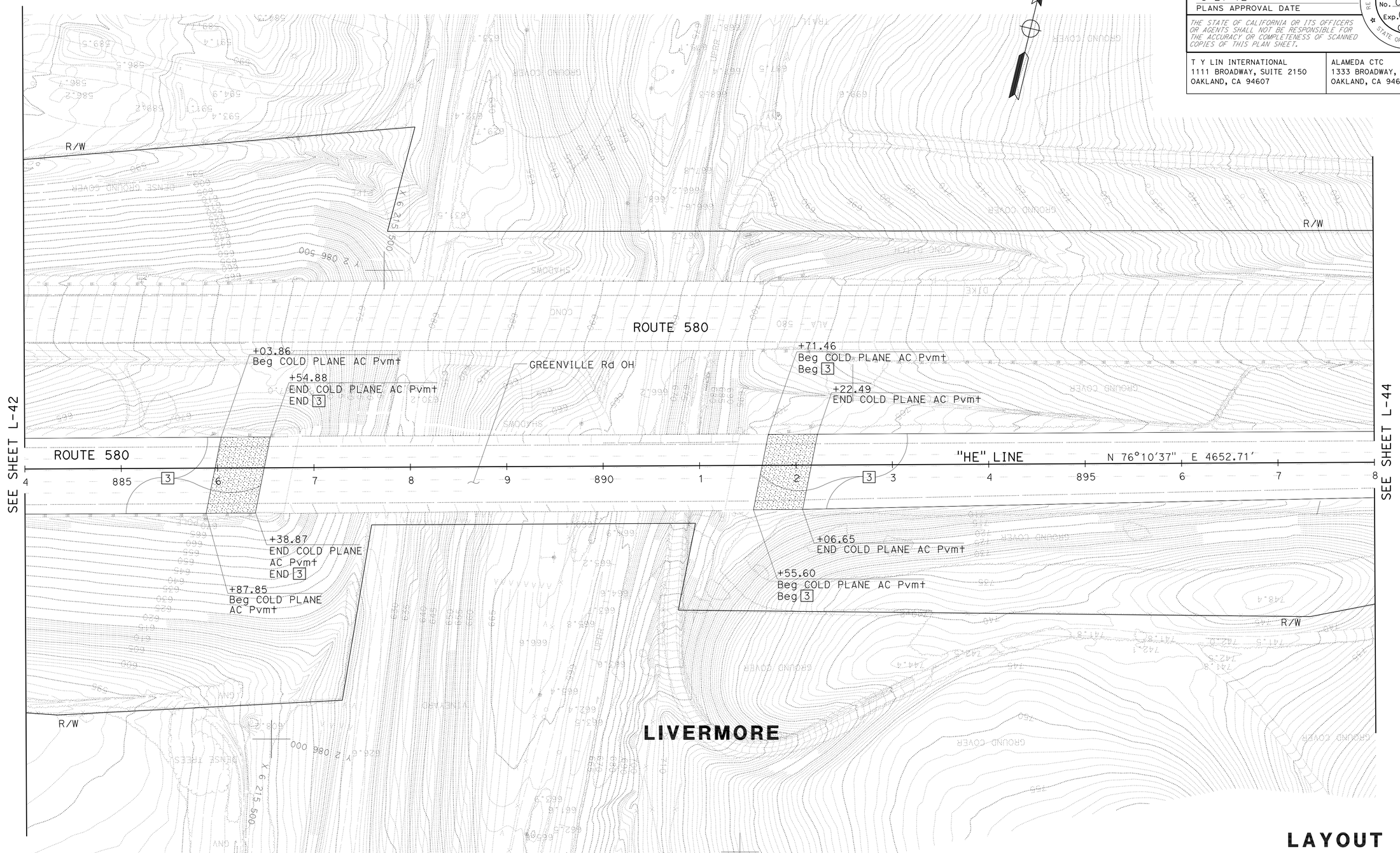
1333 BROADWAY, SUITE 220
OAKLAND, CA 94612

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-43

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI

CHECKED BY: NABAZ SAIEED

REVISED BY

DATE REVISED

LAST REVISION 2-22-12

DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	65	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SNEHALATHA PAVULURI No. C78187 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA

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NOTE:

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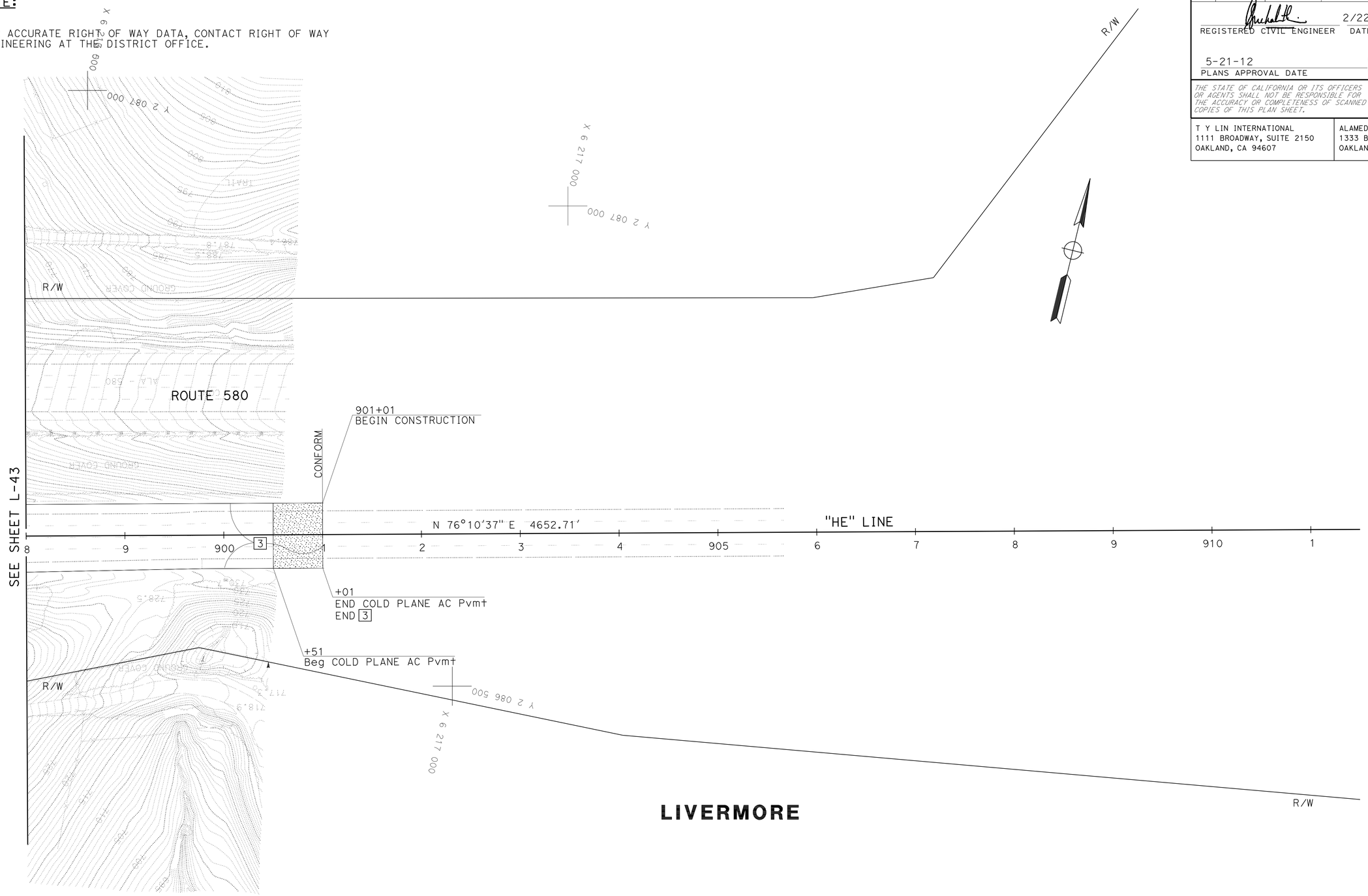

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1" = 50'

L-44

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

SNEHA PAVULURI / NABAZ SAIEED

CALCULATED-DESIGNED BY / CHECKED BY

REVISED BY / DATE REVISED

LAST REVISION 2-22-12

DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	66	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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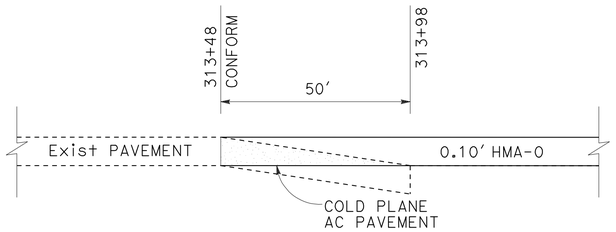
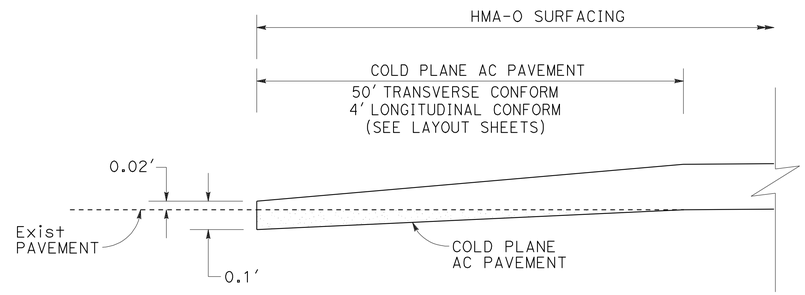
OAKLAND, CA 94612



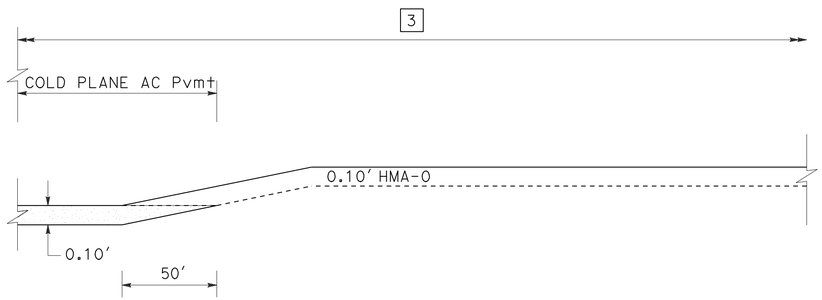
COLD PLANE AC (CONFORM) DETAIL
"B" 313+48 TO "B" 313+98

NOTES:

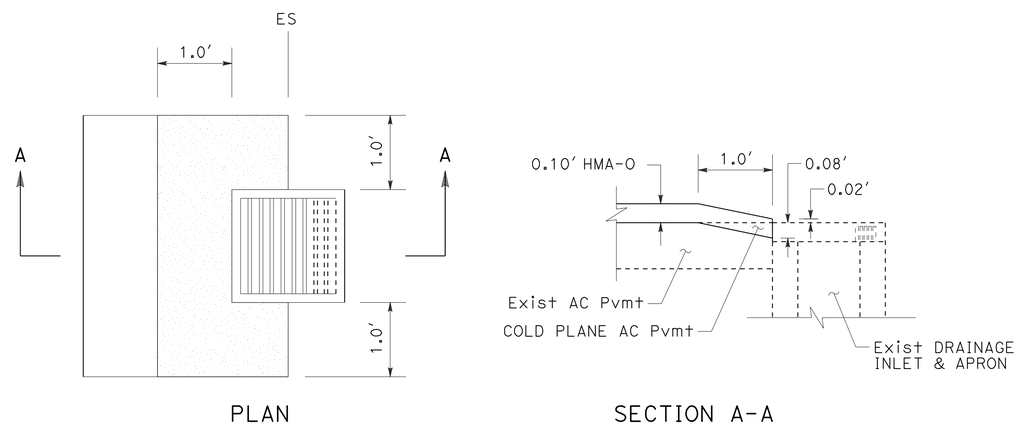
TRANSVERSE CONFORM FOR CONFORM PERPENDICULAR TO TRAVELED WAY. LONGITUDINAL CONFORM PARALLEL TO TRAVELED WAY.



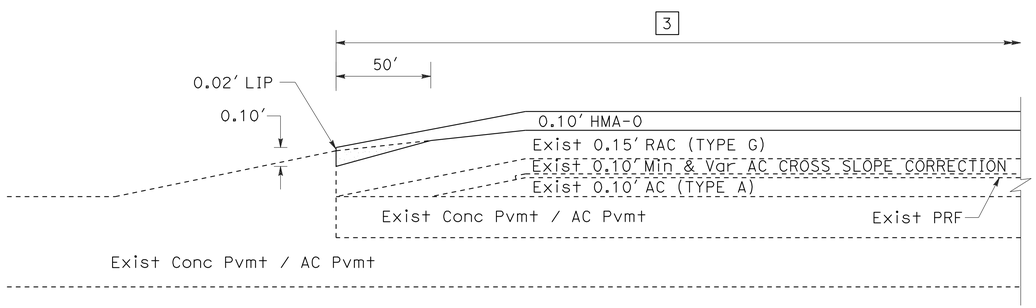
COLD PLANE AC (CONFORM) DETAIL



COLD PLANE AC DETAIL AT VASCO Rd OC



PAVING CONFORM AT DRAINAGE INLET



COLD PLANE AC DETAIL AT FIRST St OC

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI

CHECKED BY: NABAZ SAIEED

REVISED BY

DATE REVISED

LAST REVISION 2-22-12

DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	67	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Brian Krcelic
No. C33203
Exp. 06/30/12
CIVIL
STATE OF CALIFORNIA

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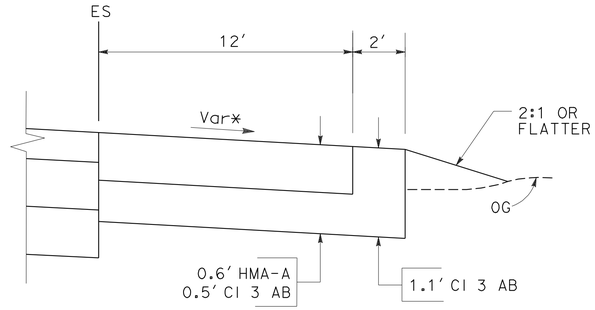
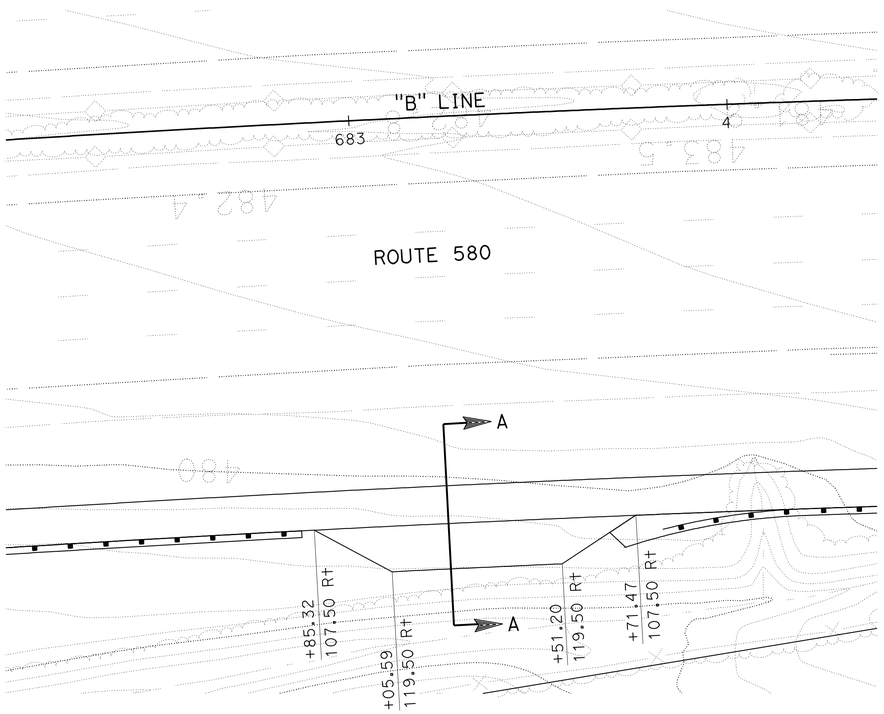


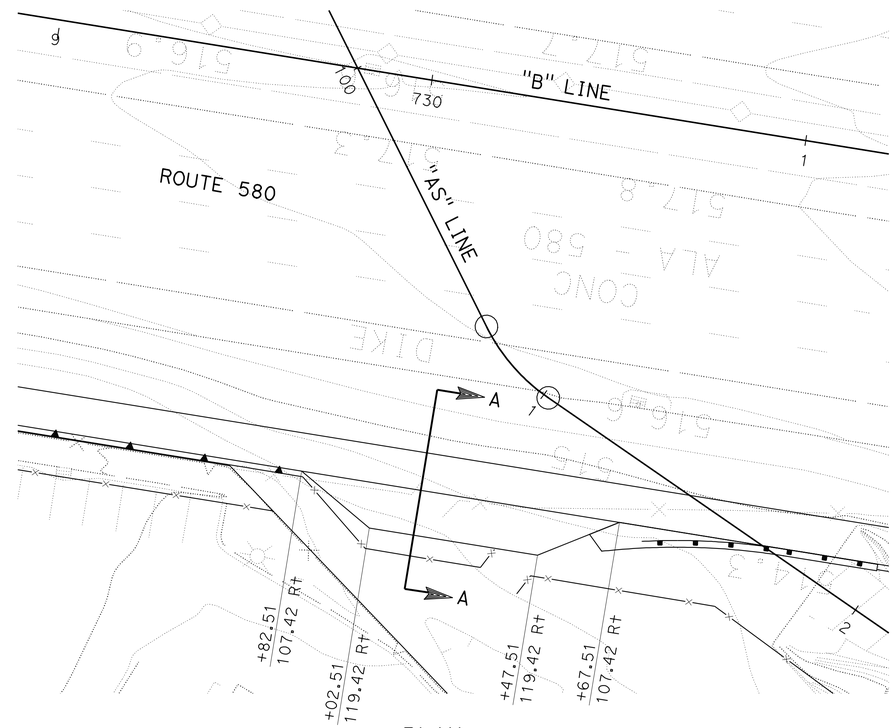
*
- 5% AT "B" 682+85.32 TO "B" 683+71.47
- 4.69% - 3.94% AT "B" 729+82.51 TO "B" 730+67.51

SECTION A-A
NO SCALE



PLAN

MAINTENANCE VEHICLE PULLOUT
"B" 682+85.32 TO "B" 683+71.47
SCALE 1" = 20'



PLAN

MAINTENANCE VEHICLE PULLOUT
"B" 729+82.51 TO "B" 730+67.51
SCALE 1" = 20'

CONSTRUCTION DETAILS

SCALE AS SHOWN

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY
DATE REVISED

LAST REVISION 2-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	68	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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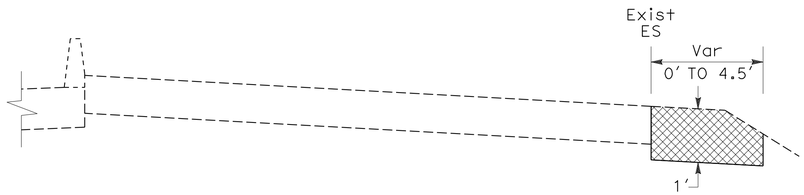
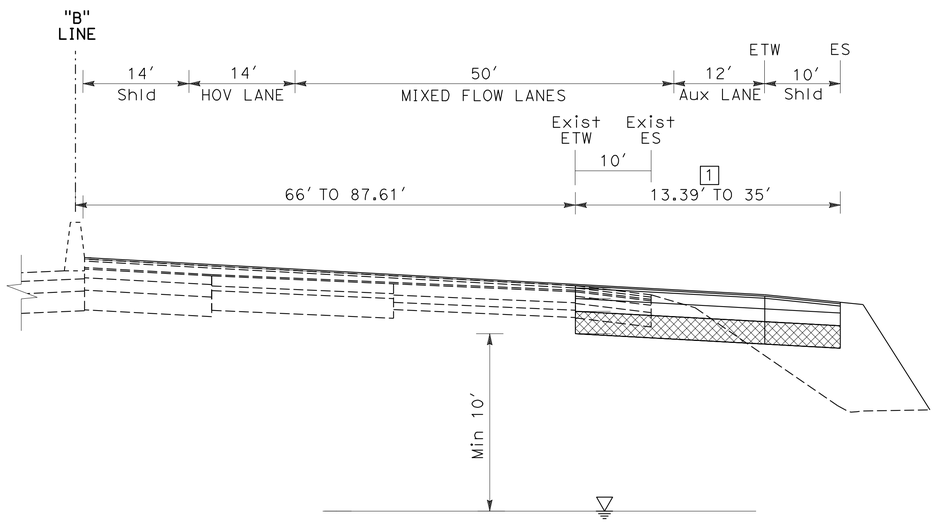
LEGEND:

AERIALLY DEPOSITED LEAD (TYPE Y-2)



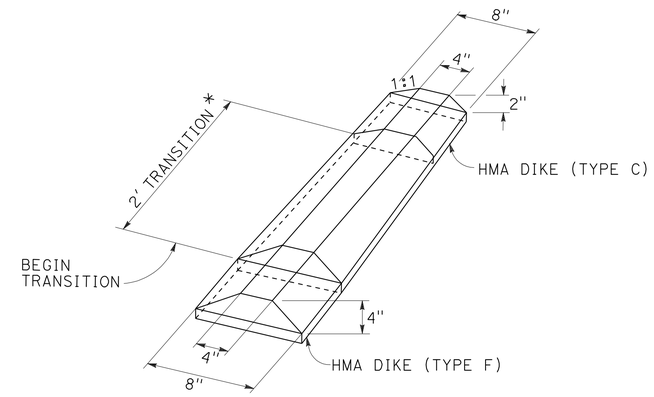
AREA CONTAINING AERIALLY DEPOSITED LEAD (TYPE Y-2)

"B" 381+00 TO "B" 423+00
"B" 693+81 TO "B" 714+73

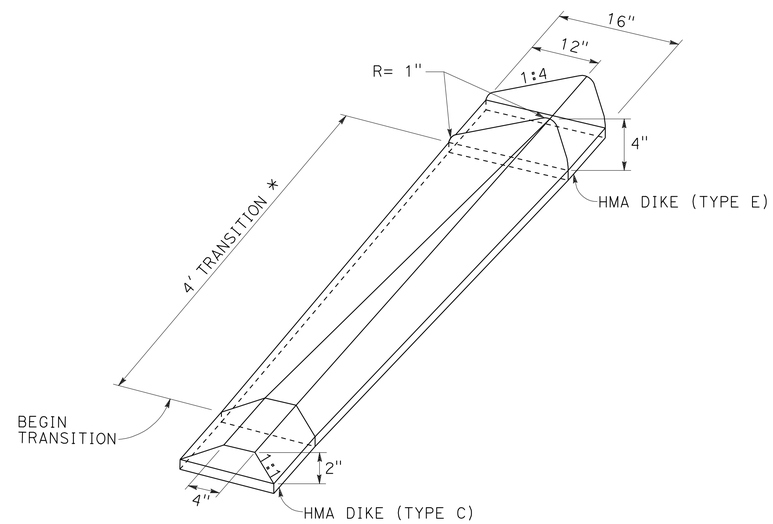


PLACEMENT OF EXCAVATED AERIALLY DEPOSITED LEAD (TYPE Y-2) MATERIAL

"B" 381+00 TO "B" 423+00
"B" 693+81 TO "B" 714+73



DIKE TRANSITION FROM TYPE F TO TYPE C



DIKE TRANSITION FROM TYPE C TO TYPE E

* DIKE TRANSITION TO BE PAID FOR AS THE LARGER OF THE TWO DIKE SECTIONS.

CONSTRUCTION DETAILS

NO SCALE

C-3

REVISED BY | DATE REVISED
SNEHA PAVULURI | NABAZ SAIEED
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR | BRIAN KRCELIC
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 2-22-12 | DATE PLOTTED => 21-MAY-2012 | TIME PLOTTED => 10:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	69	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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TEMPORARY CREEK DIVERSION SYSTEM - PHASE 1 (LOCATION A) FOR ARROYO SECO CREEK

SCALE 1" = 20'

ABBREVIATION:

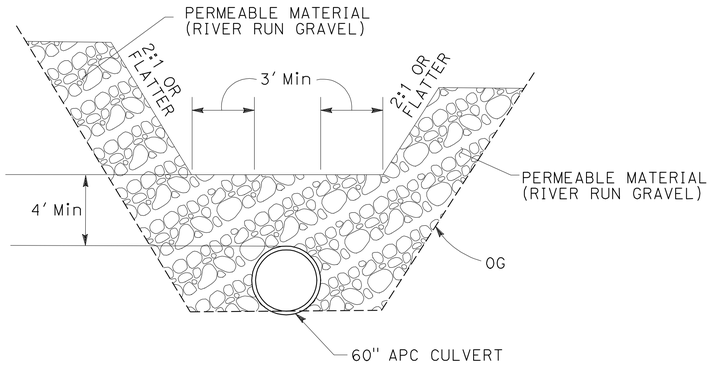
TCDS TEMPORARY CREEK DIVERSION SYSTEM

LEGEND:

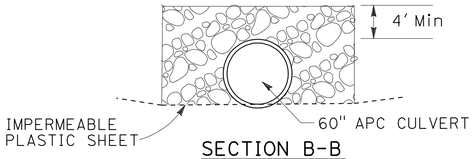
CONSTRUCTION THIS PHASE

NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SURVEY CREEK AREA FROM THE TOP OF BANK TO THE TOP OF BANK. CONTRACTOR SHALL RESTORE CREEK TO EXISTING CONDITION AFTER EACH CONSTRUCTION SEASON AND AT COMPLETION OF WORK. CULVERTS AND EARTH DAMS ARE TO BE REMOVED FROM CREEK AND GRADES RESTORED TO ORIGINAL CONFIGURATION.
2. ARRANGEMENT OF LAYING THE PIPE CULVERT SHALL FOLLOW THE CONTOUR OF THE CREEK.
3. COFFER DAM SHOULD BE CONSTRUCTED OF PERMEABLE MATERIAL (RIVER RUN GRAVEL) OR GRAVEL-FILLED BAGS AT THE CONTRACTOR'S OPTION.
4. PERMEABLE MATERIAL (RIVER RUN GRAVEL) IF USED, SHALL BE BETWEEN 1.5 INCHES AND 4 INCHES DIAMETER.
5. NO VEHICLE SHALL BE ALLOWED ON TCDS.



SECTION A-A
NO SCALE



SECTION B-B
NO SCALE

CONSTRUCTION DETAILS

SCALE AS SHOWN

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC

CALCULATED-DESIGNED BY: SNEHA PAVULURI

CHECKED BY: NABAZ SAIEED

REVISED BY: SP

DATE REVISED: 5/12

LAST REVISION 5-7-12

DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	70	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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TEMPORARY CREEK DIVERSION SYSTEM - PHASE 2 (LOCATION A) FOR ARROYO SECO CREEK

SCALE 1" = 20'

ABBREVIATION:

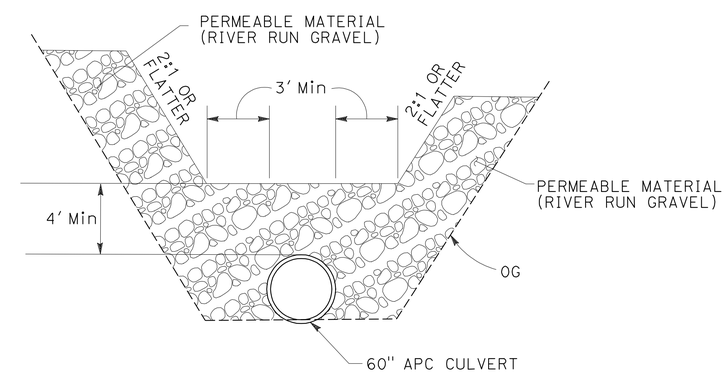
TCDS TEMPORARY CREEK DIVERSION SYSTEM

LEGEND:

CONSTRUCTION THIS PHASE

NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SURVEY CREEK AREA FROM THE TOP OF BANK TO THE TOP OF BANK. CONTRACTOR SHALL RESTORE CREEK TO EXISTING CONDITION AFTER EACH CONSTRUCTION SEASON AND AT COMPLETION OF WORK. CULVERTS AND EARTH DAMS ARE TO BE REMOVED FROM CREEK AND GRADES RESTORED TO ORIGINAL CONFIGURATION.
2. ARRANGEMENT OF LAYING THE PIPE CULVERT SHALL FOLLOW THE CONTOUR OF THE CREEK.
3. COFFER DAM SHOULD BE CONSTRUCTED OF PERMEABLE MATERIAL (RIVER RUN GRAVEL) OR GRAVEL-FILLED BAGS AT THE CONTRACTOR'S OPTION.
4. PERMEABLE MATERIAL (RIVER RUN GRAVEL) IF USED, SHALL BE BETWEEN 1.5 INCHES AND 4 INCHES DIAMETER.
5. NO VEHICLE SHALL BE ALLOWED ON TCDS.



SECTION A-A
NO SCALE

CONSTRUCTION DETAILS

SCALE AS SHOWN

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
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REVISED BY: SP
DATE REVISED: 5/12

LAST REVISION 5-7-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:51

BORDER LAST REVISED 7/2/2010
USERNAME => s119571
DGN FILE => 0412000405gd005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0735
PROJECT NUMBER & PHASE 04120004051

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	71	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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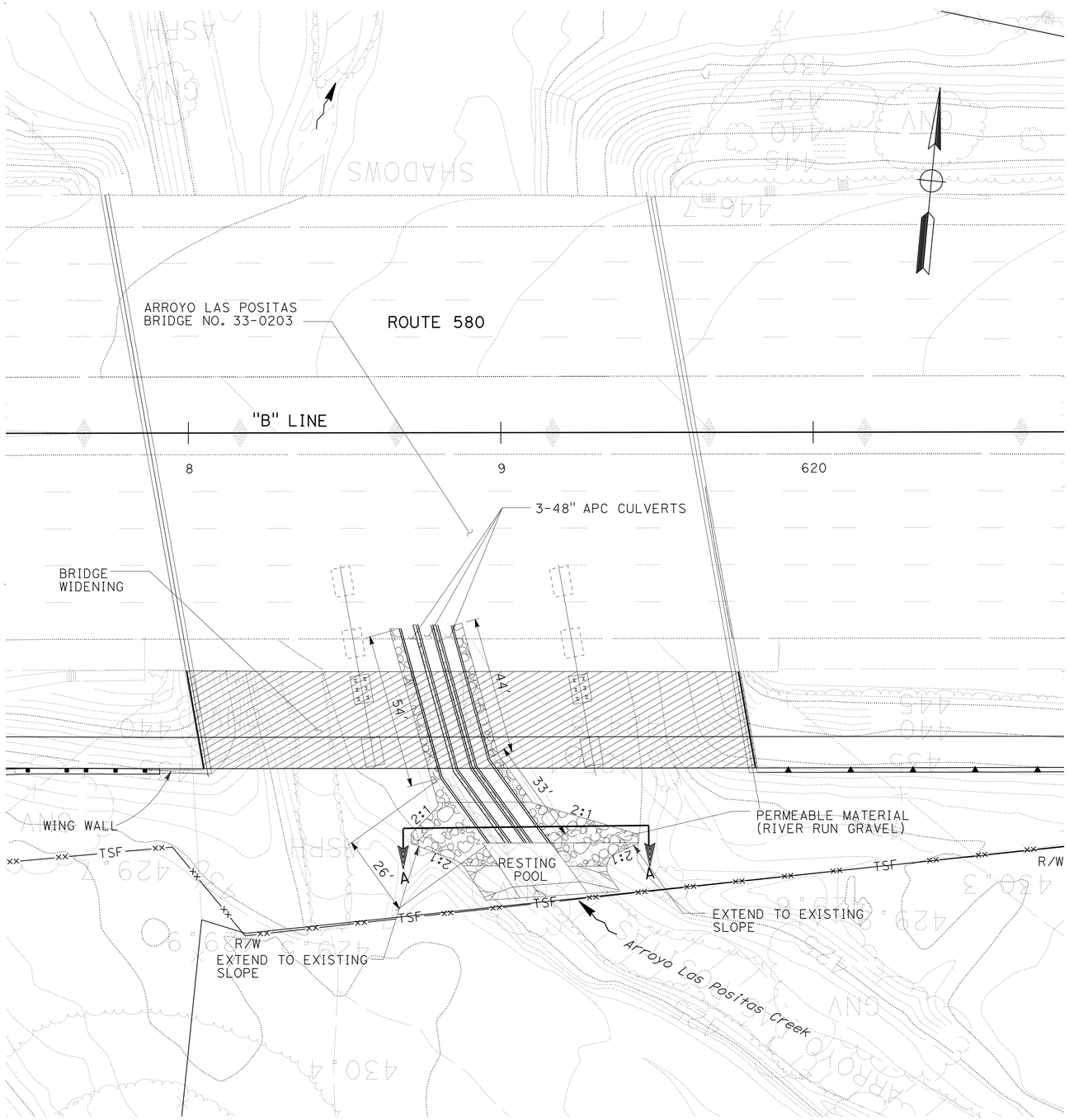


TEMPORARY CREEK DIVERSION SYSTEM (LOCATION B) FOR ARROYO LAS POSITAS

SCALE 1" = 20'

ABBREVIATION:

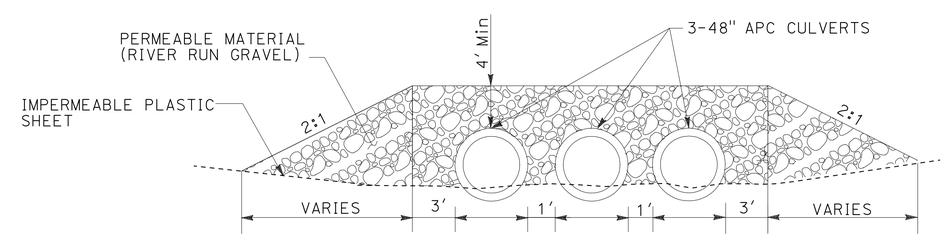
TCDS TEMPORARY CREEK DIVERSION SYSTEM

LEGEND:

CONSTRUCTION THIS PHASE

NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SURVEY CREEK AREA FROM THE TOP OF BANK TO THE TOP OF BANK. CONTRACTOR SHALL RESTORE CREEK TO EXISTING CONDITION AFTER EACH CONSTRUCTION SEASON AND AT COMPLETION OF WORK. CULVERTS AND EARTH DAMS ARE TO BE REMOVED FROM CREEK AND GRADES RESTORED TO ORIGINAL CONFIGURATION.
2. ARRANGEMENT OF LAYING THE PIPE CULVERTS SHALL FOLLOW THE CONTOUR OF THE CREEK.
3. COFFER DAM SHOULD BE CONSTRUCTED OF PERMEABLE MATERIAL (RIVER RUN GRAVEL) OR GRAVEL-FILLED BAGS AT THE CONTRACTOR'S OPTION.
4. PERMEABLE MATERIAL (RIVER RUN GRAVEL) IF USED, SHALL BE BETWEEN 1.5 INCHES AND 4 INCHES DIAMETER.
5. CONTRACTOR SHALL MAINTAIN THE INVERT OF THE RESTING POOL AT A LEVEL EQUAL OR LOWER THAN CULVERT INVERT. SHOULD SEDIMENT BUILD UP IN THE POOL, CONTRACTOR SHALL REMOVE THE SEDIMENT IN ORDER TO KEEP THE INVERT OF THE POOLS AT THE SAME LEVEL AS CULVERT INVERT.
6. NO VEHICLE SHALL BE ALLOWED ON TCDS.



SECTION A-A
NO SCALE

CONSTRUCTION DETAILS

SCALE AS SHOWN

C-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY: SP
DATE REVISED: 5/12

LAST REVISION 5-7-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	72	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Brian Krcelic No. C33203 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

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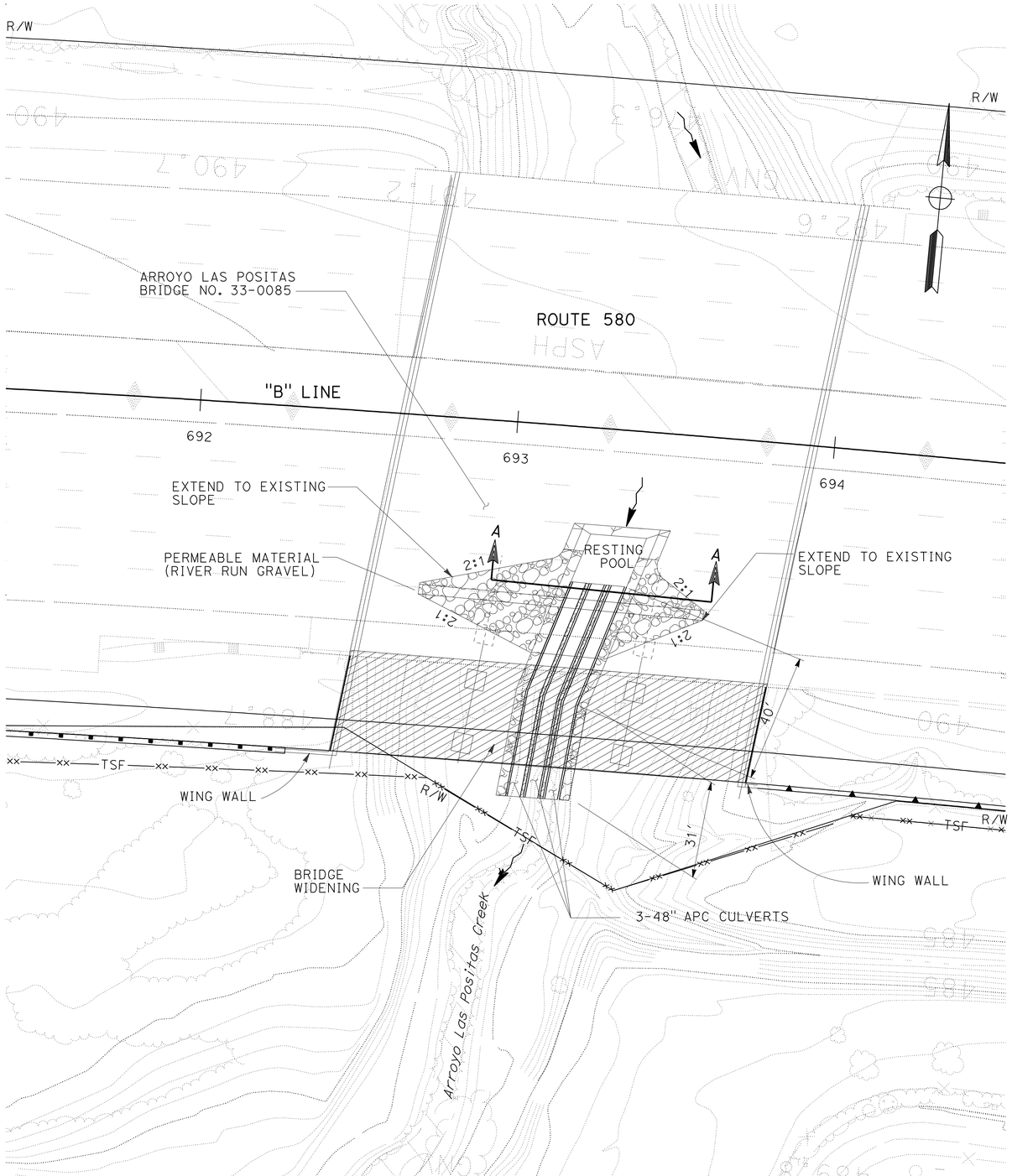

TEMPORARY CREEK DIVERSION SYSTEM (LOCATION C) FOR ARROYO LAS POSITAS

SCALE 1" = 20'

ABBREVIATION:

TCDS TEMPORARY CREEK DIVERSION SYSTEM

LEGEND:

CONSTRUCTION THIS PHASE

NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SURVEY CREEK AREA FROM THE TOP OF BANK TO THE TOP OF BANK. CONTRACTOR SHALL RESTORE CREEK TO EXISTING CONDITION AFTER EACH CONSTRUCTION SEASON AND AT COMPLETION OF WORK. CULVERTS AND EARTH DAMS ARE TO BE REMOVED FROM CREEK AND GRADES RESTORED TO ORIGINAL CONFIGURATION.
2. ARRANGEMENT OF LAYING THE PIPE CULVERTS SHALL FOLLOW THE CONTOUR OF THE CREEK.
3. COFFER DAM SHOULD BE CONSTRUCTED OF PERMEABLE MATERIAL (RIVER RUN GRAVEL) OR GRAVEL-FILLED BAGS AT THE CONTRACTOR'S OPTION.
4. PERMEABLE MATERIAL (RIVER RUN GRAVEL) IF USED, SHALL BE BETWEEN 1.5 INCHES AND 4 INCHES DIAMETER.
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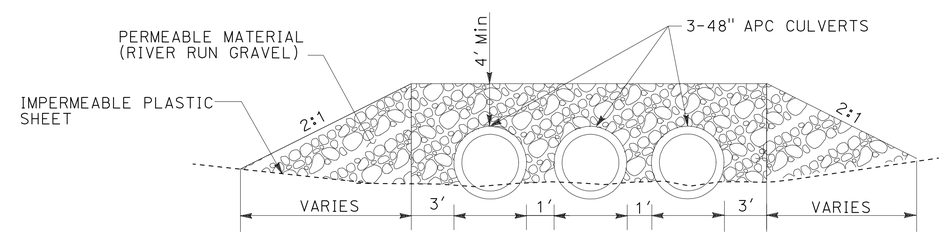
6. NO VEHICLE SHALL BE ALLOWED ON TCDS.



SECTION A-A
NO SCALE

CONSTRUCTION DETAILS

SCALE AS SHOWN

C-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN KRCELIC
CALCULATED-DESIGNED BY: SNEHA PAVULURI
CHECKED BY: NABAZ SAIEED
REVISED BY: SP
DATE REVISED: 5/12

LAST REVISION 5-7-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 10:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	73	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER SEWELL No. C 64807 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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SUITE 220
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NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR TEMPORARY REINFORCED SILT FENCE (TYPE 1) SEE Q SHEETS FOR EXACT LOCATION.

ABBREVIATION:

ESA ENVIRONMENTALLY SENSITIVE AREA
TRSF TEMPORARY REINFORCED SILT FENCE (TYPE 1)

LEGEND:

EROSION CONTROL (TYPE 1)
-EROSION CONTROL (HYDROSEED)
-EROSION CONTROL (COMPOST BLANKET)

EROSION CONTROL (TYPE 2)
-IMPORTED BIOFILTRATION SOIL
-ROLLED EROSION CONTROL PRODUCT (NETTING)
-EROSION CONTROL (HYDROSEED)

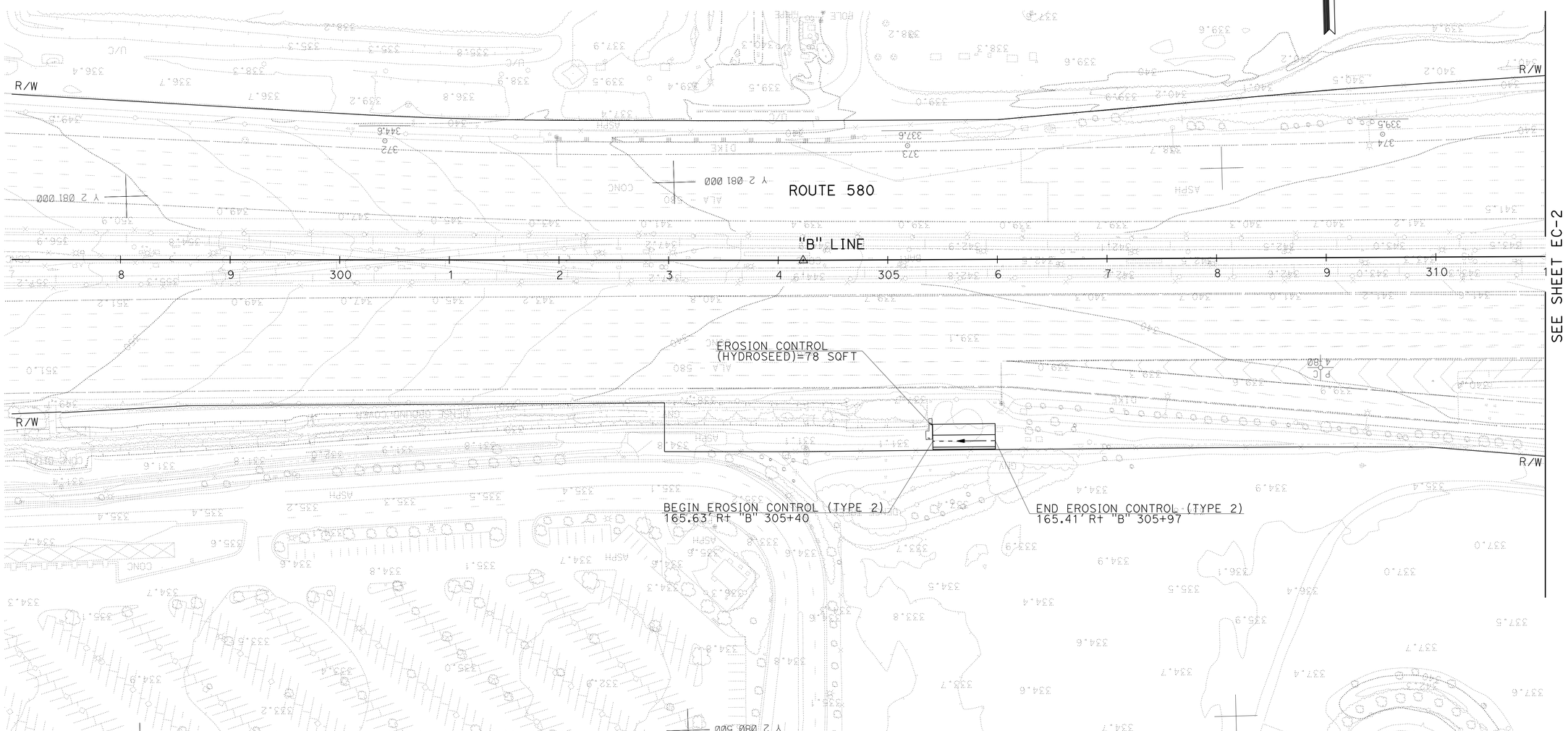
EROSION CONTROL (HYDROSEED) IN UNLINED DITCH

EROSION CONTROL (HYDROSEED) IN GRADE TO DRAIN

EROSION CONTROL (HYDROSEED)

FR FIBER ROLLS

xx——xx——TSF—— TEMPORARY REINFORCED SILT FENCE (TYPE 1)



EROSION CONTROL PLAN

SCALE: 1" = 50'

APPROVED FOR EROSION CONTROL WORK ONLY

EC-1

REVISED BY	DATE REVISED
JT	5/12

CALCULATED-DESIGNED BY: JEFF TUDD
CHECKED BY: CHRIS SEWELL
CONSULTANT FUNCTIONAL SUPERVISOR: HAN-BIN LIANG

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	74	681

REGISTERED CIVIL ENGINEER — DATE 5/7/12

5-21-12
PLANS APPROVAL DATE

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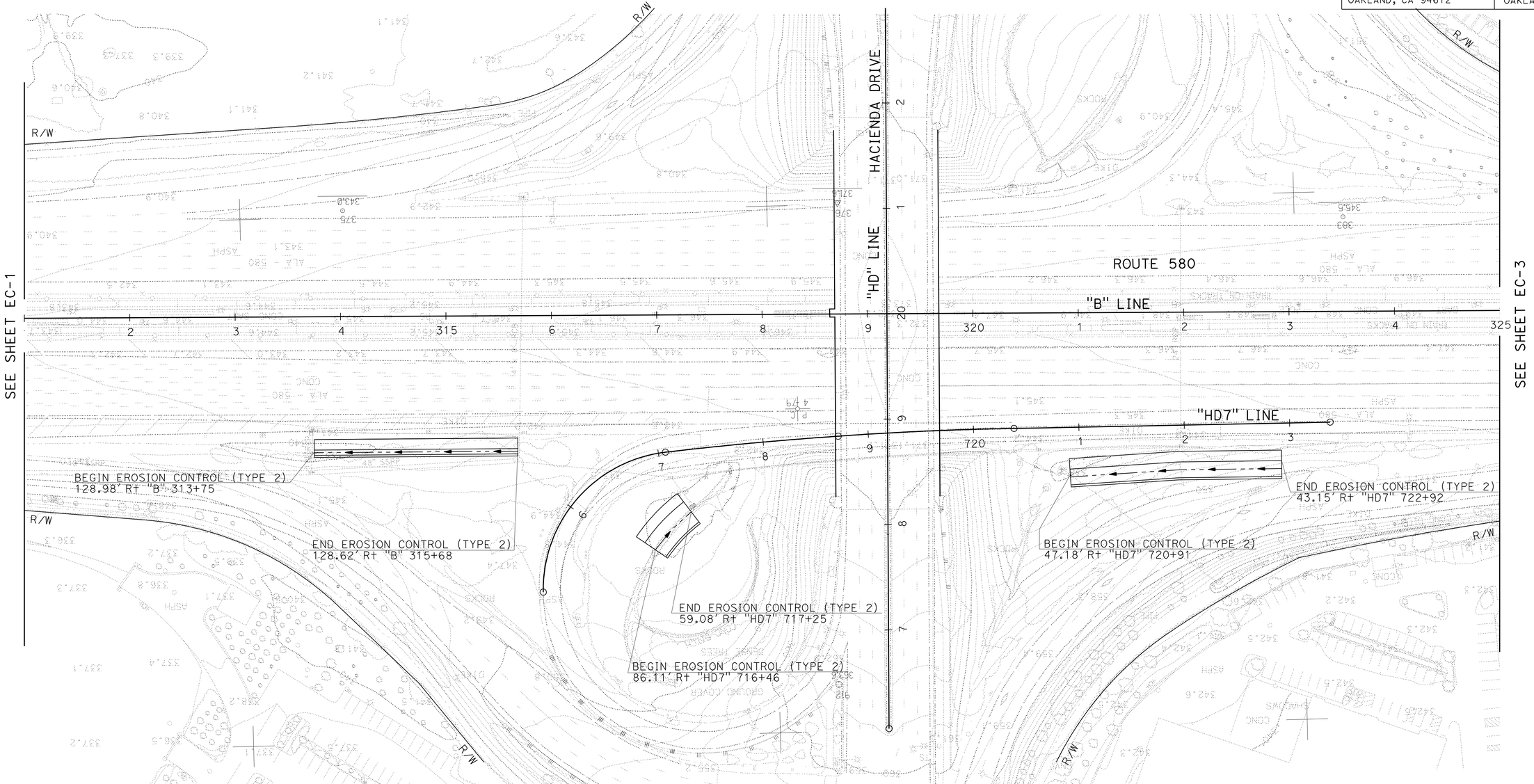

EROSION CONTROL PLAN

SCALE: 1" = 50'

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EC-2

REVISED BY	DATE REVISED
JT	5/12

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TIME PLOTTED => 10:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	75	681

REGISTERED CIVIL ENGINEER — DATE 5/7/12

5-21-12
PLANS APPROVAL DATE

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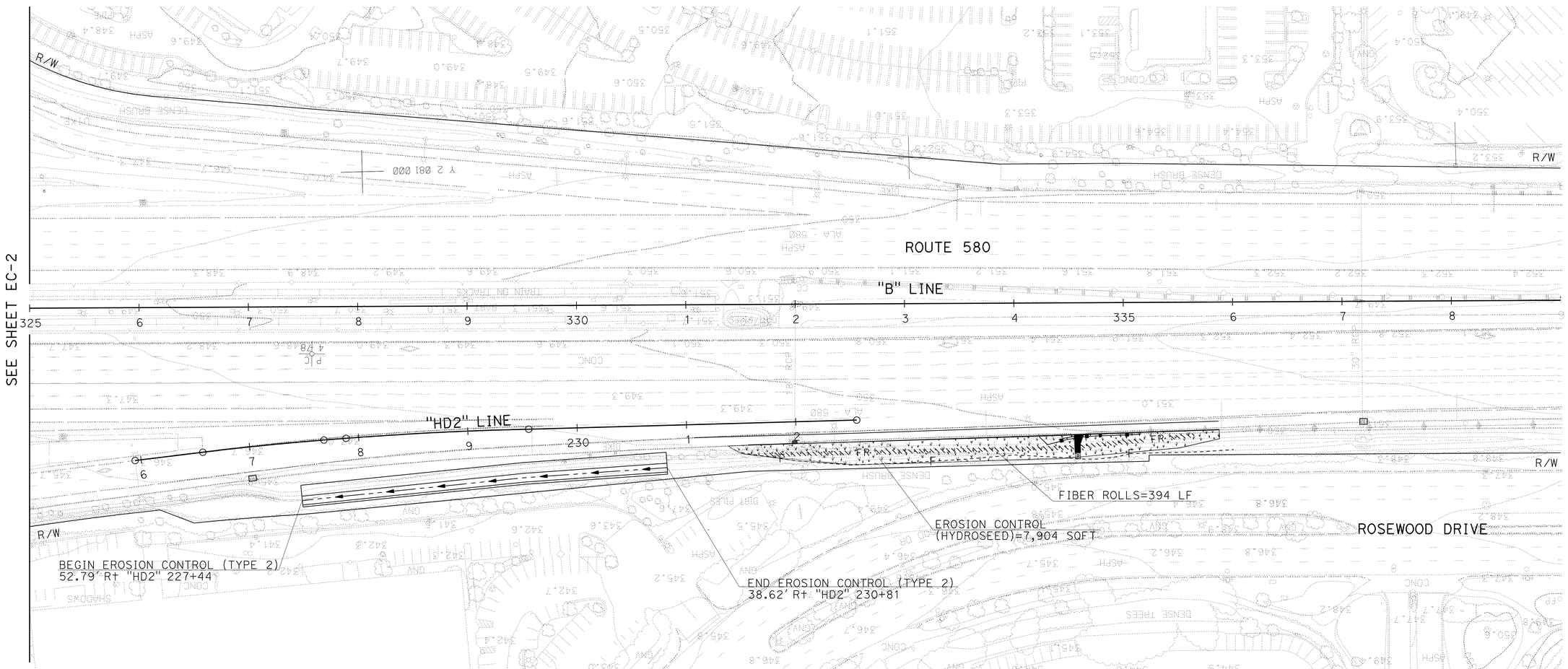

EROSION CONTROL PLAN

SCALE: 1" = 50'

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EC-3

REVISED BY	DATE REVISED
JT	5/12

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TIME PLOTTED => 10:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	76	681

REGISTERED CIVIL ENGINEER — DATE 5/7/12

5-21-12
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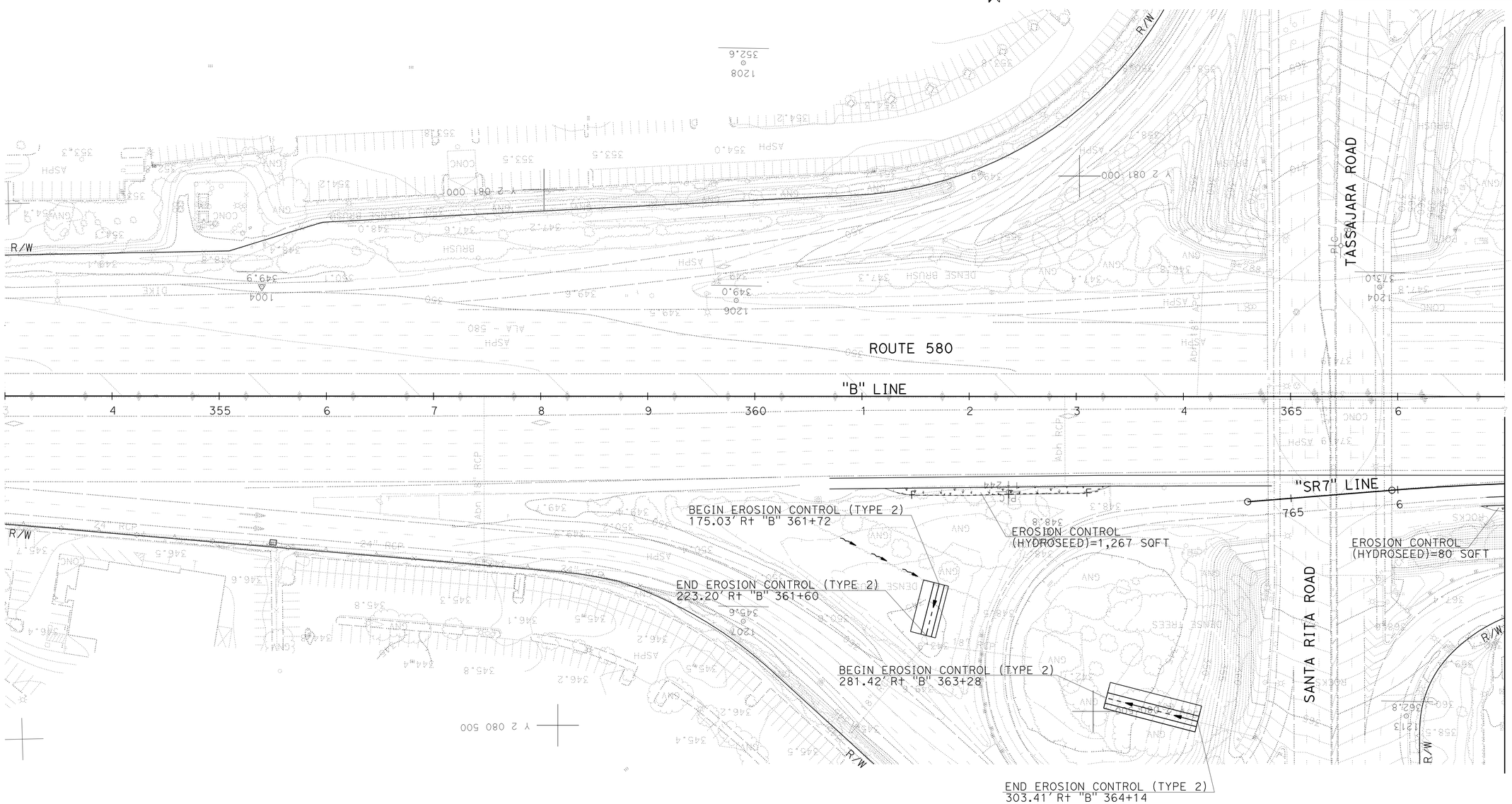

EROSION CONTROL PLAN

SCALE: 1" = 50'

EC-4

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JT	5/12

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	77	681

REGISTERED CIVIL ENGINEER — DATE 2/22/12

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER SEWELL — No. C 64807 — Exp. 6/30/13 — CIVIL — STATE OF CALIFORNIA

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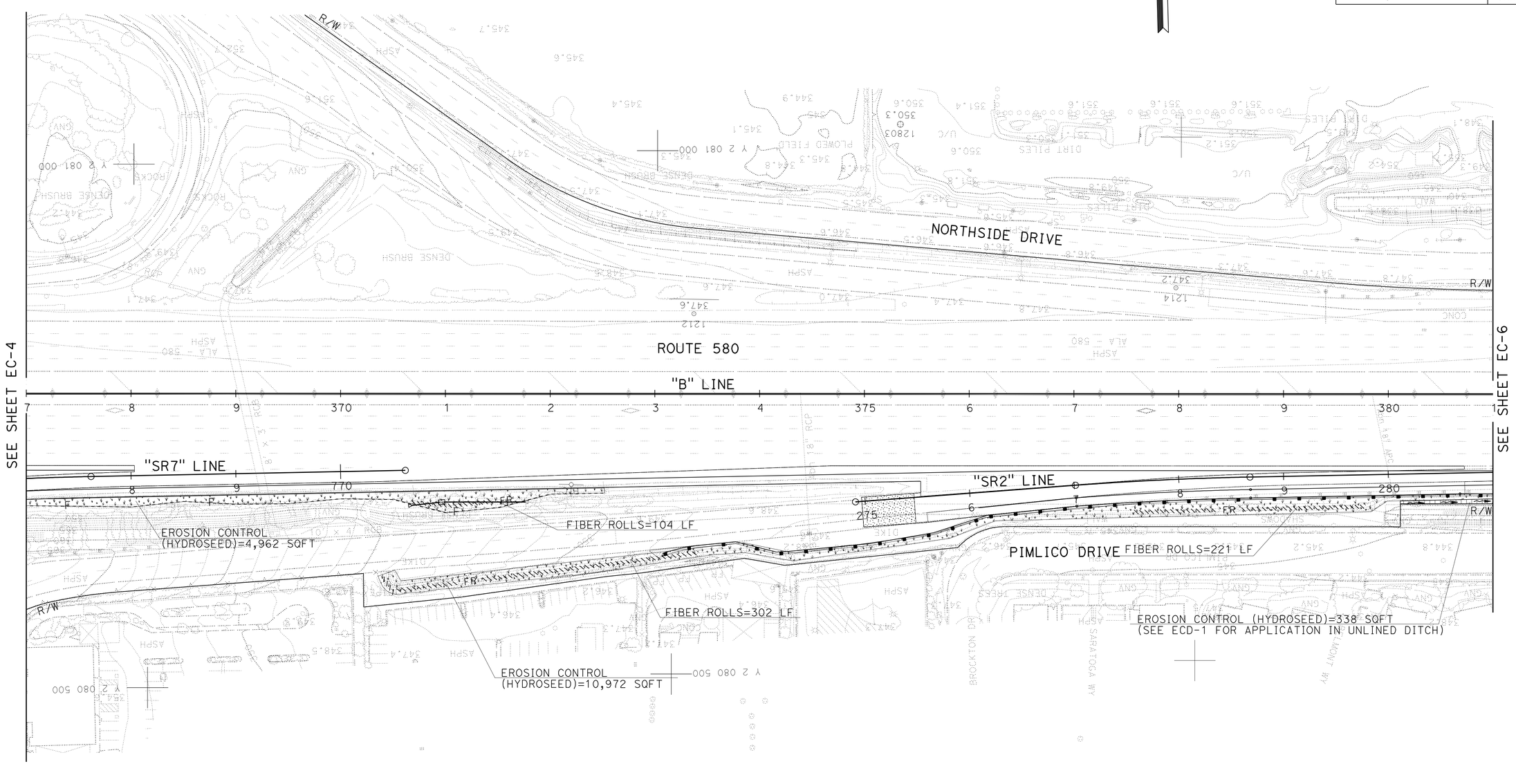

EROSION CONTROL PLAN

SCALE: 1" = 50'

EC-5

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	78	681

REGISTERED CIVIL ENGINEER — DATE 2/22/12

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PLANS APPROVAL DATE

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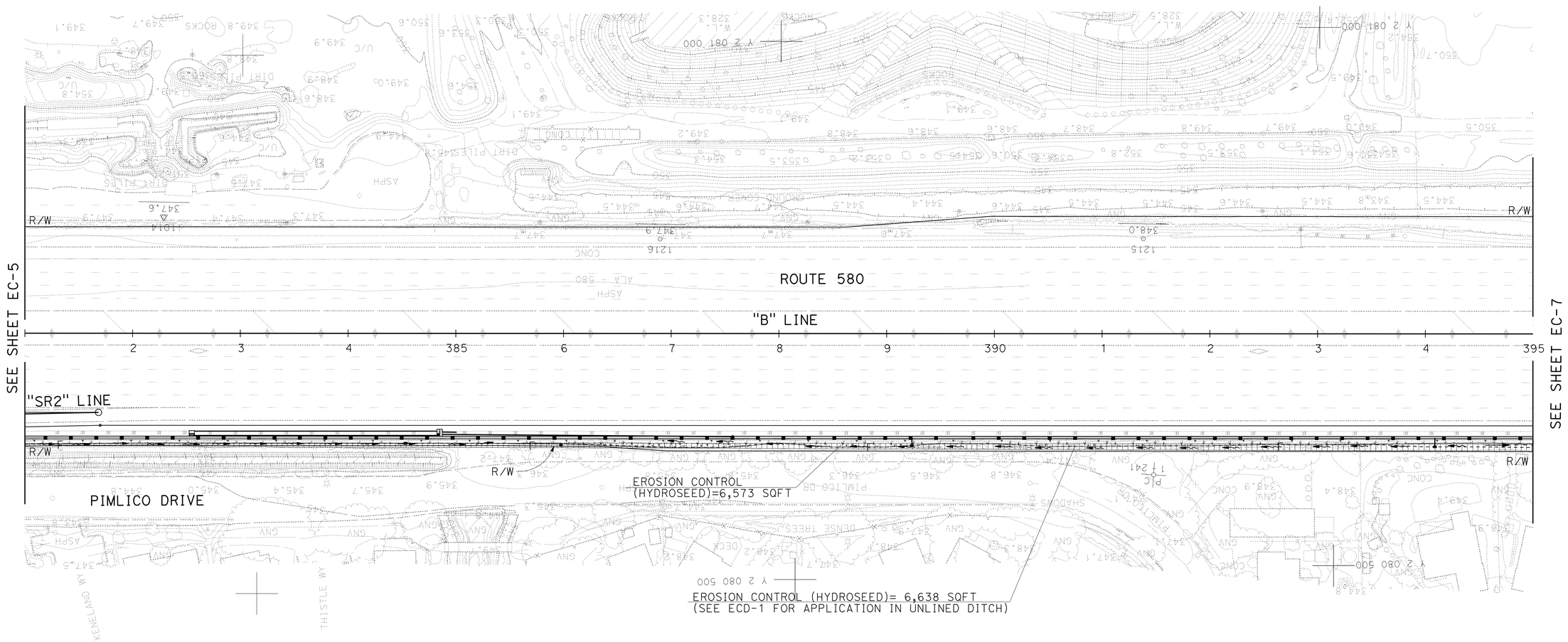

EROSION CONTROL PLAN

SCALE: 1" = 50'

APPROVED FOR EROSION CONTROL WORK ONLY

EC-6

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TIME PLOTTED => 11:15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	79	681

REGISTERED CIVIL ENGINEER — DATE 2/22/12

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER SEWELL — No. C 64807 — Exp. 6/30/13 — CIVIL — STATE OF CALIFORNIA

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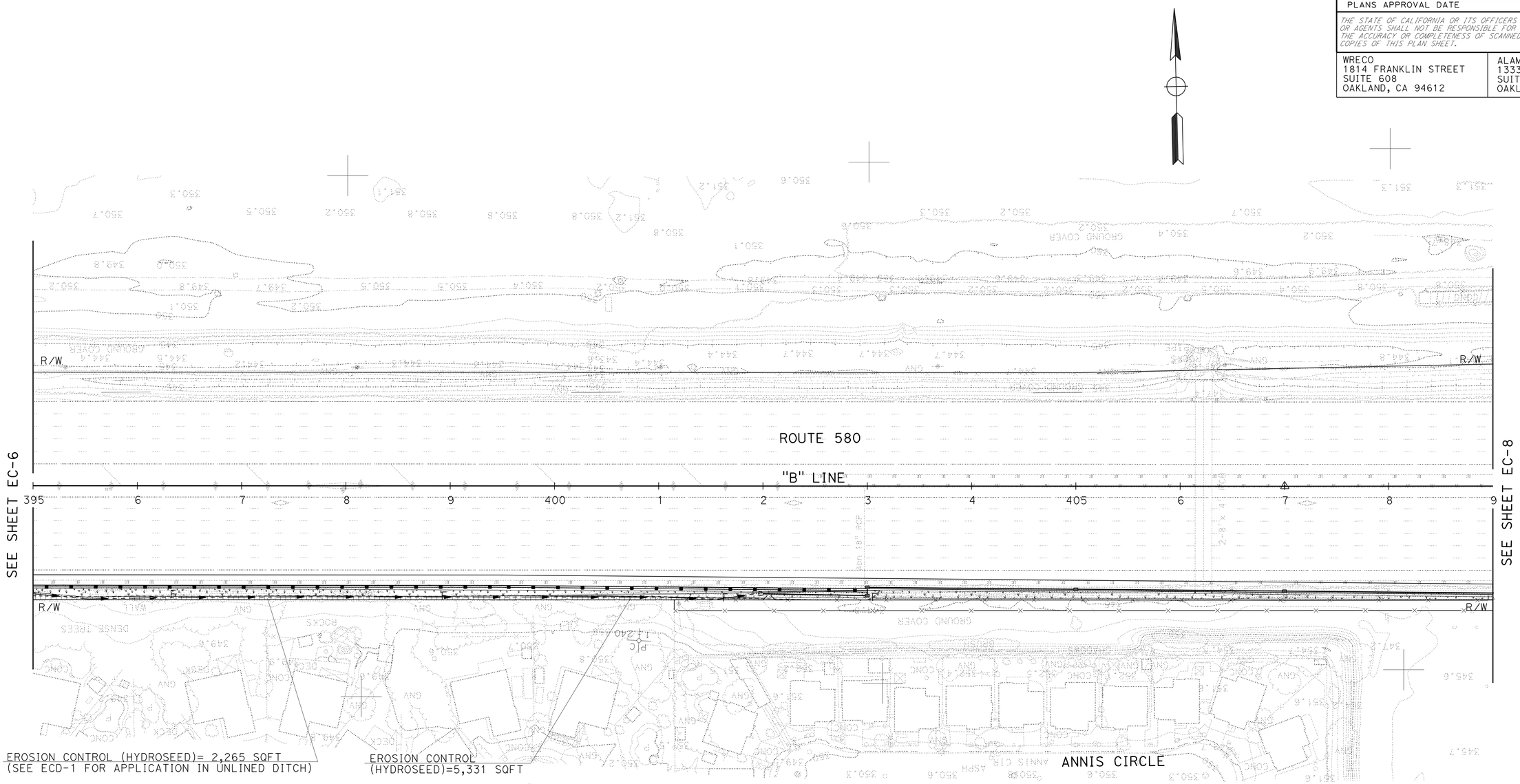

EROSION CONTROL PLAN

SCALE: 1" = 50'

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EC-7

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	80	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER SEWELL No. C 64807 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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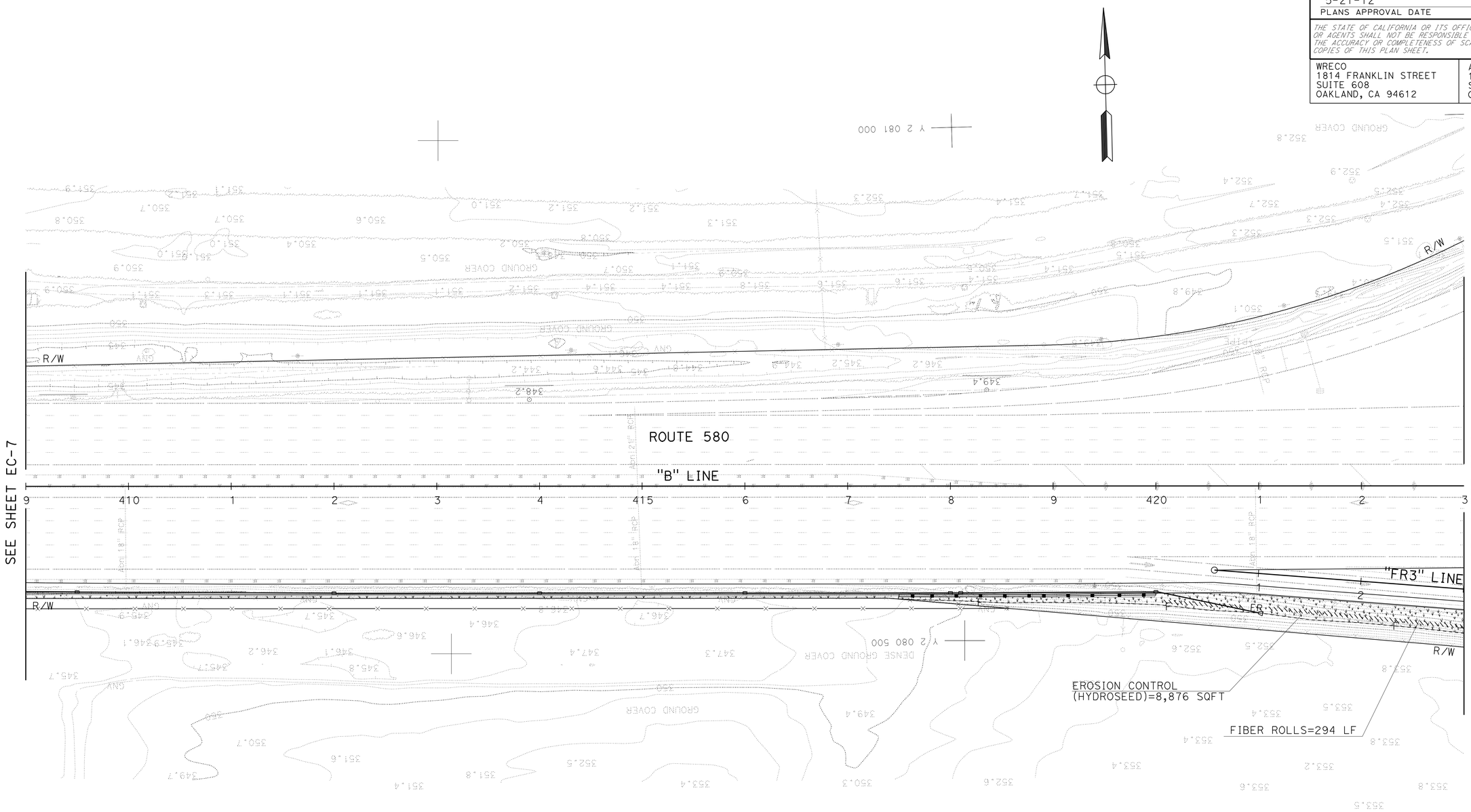

EROSION CONTROL PLAN

SCALE: 1" = 50'

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EC-8

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DATE REVISED

LAST REVISION 02-22-12

DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 11:15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	81	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER SEWELL No. C 64807 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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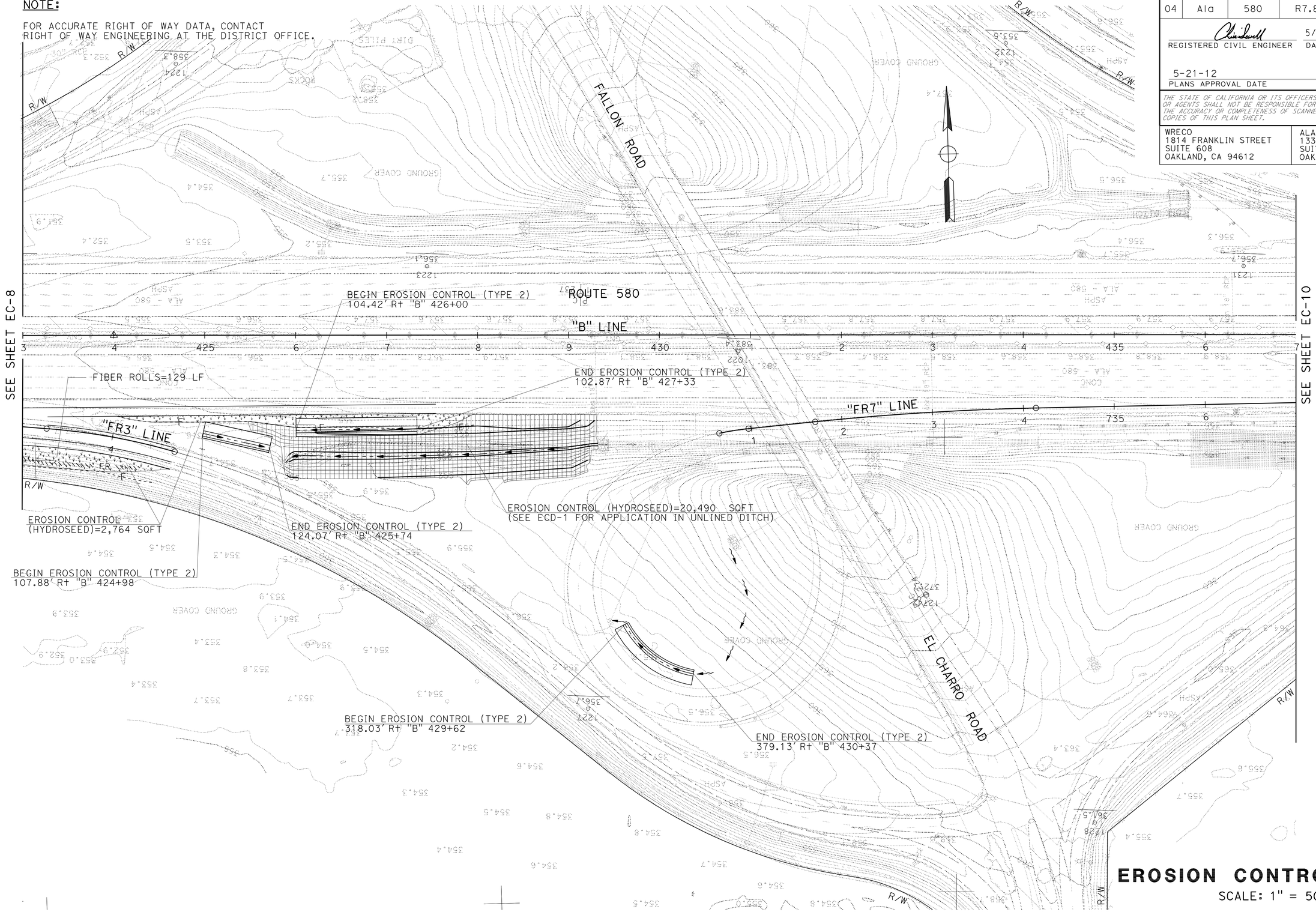

EROSION CONTROL PLAN

SCALE: 1" = 50'

EC-9

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DATE REVISED	5/12	CHRIS SEWELL	CHECKED BY

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	82	681

REGISTERED CIVIL ENGINEER — DATE 5/7/12

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER SEWELL — No. C 64807 — Exp. 6/30/13 — CIVIL — STATE OF CALIFORNIA

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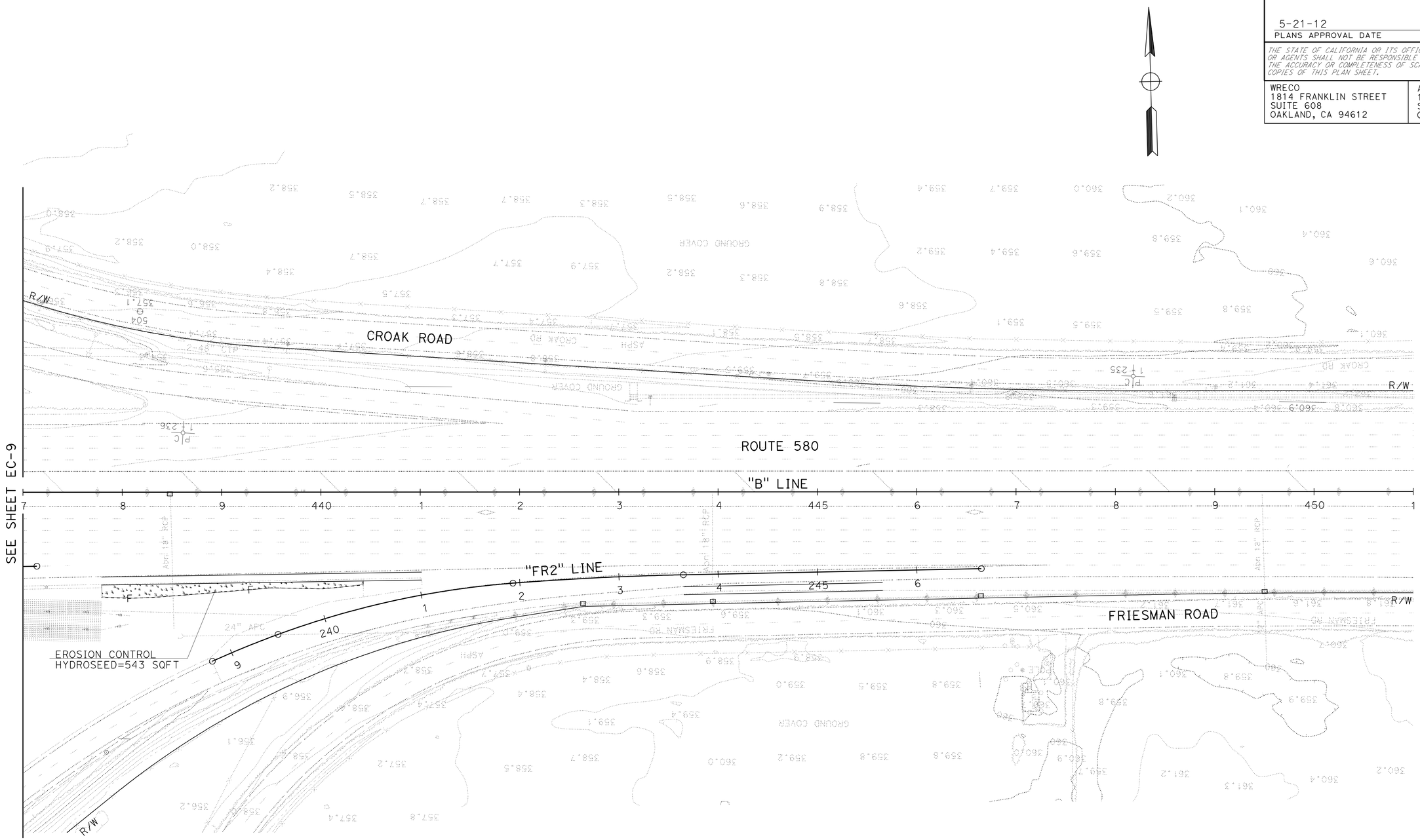

EROSION CONTROL PLAN

SCALE: 1" = 50'

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EC-10

REVISED BY	DATE REVISED
JT	5/12

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DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 11:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	83	681

REGISTERED CIVIL ENGINEER — DATE: 5/7/12

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER SEWELL — No. C 64807 — Exp. 6/30/13 — CIVIL — STATE OF CALIFORNIA

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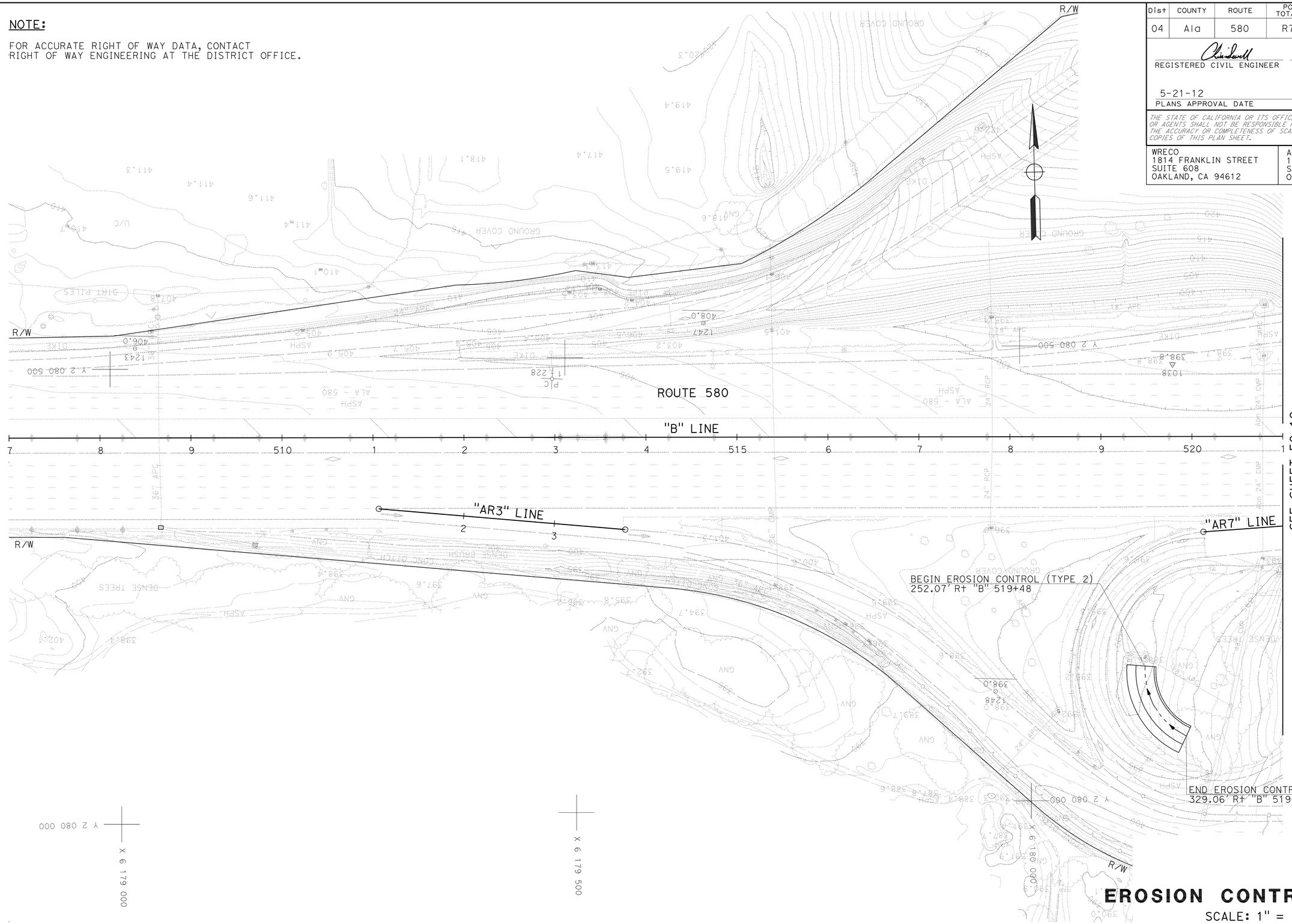

EROSION CONTROL PLAN

SCALE: 1" = 50'

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EC-11

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DATE REVISED	5/12
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TIME PLOTTED => 11:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	84	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER SEWELL No. C 64807 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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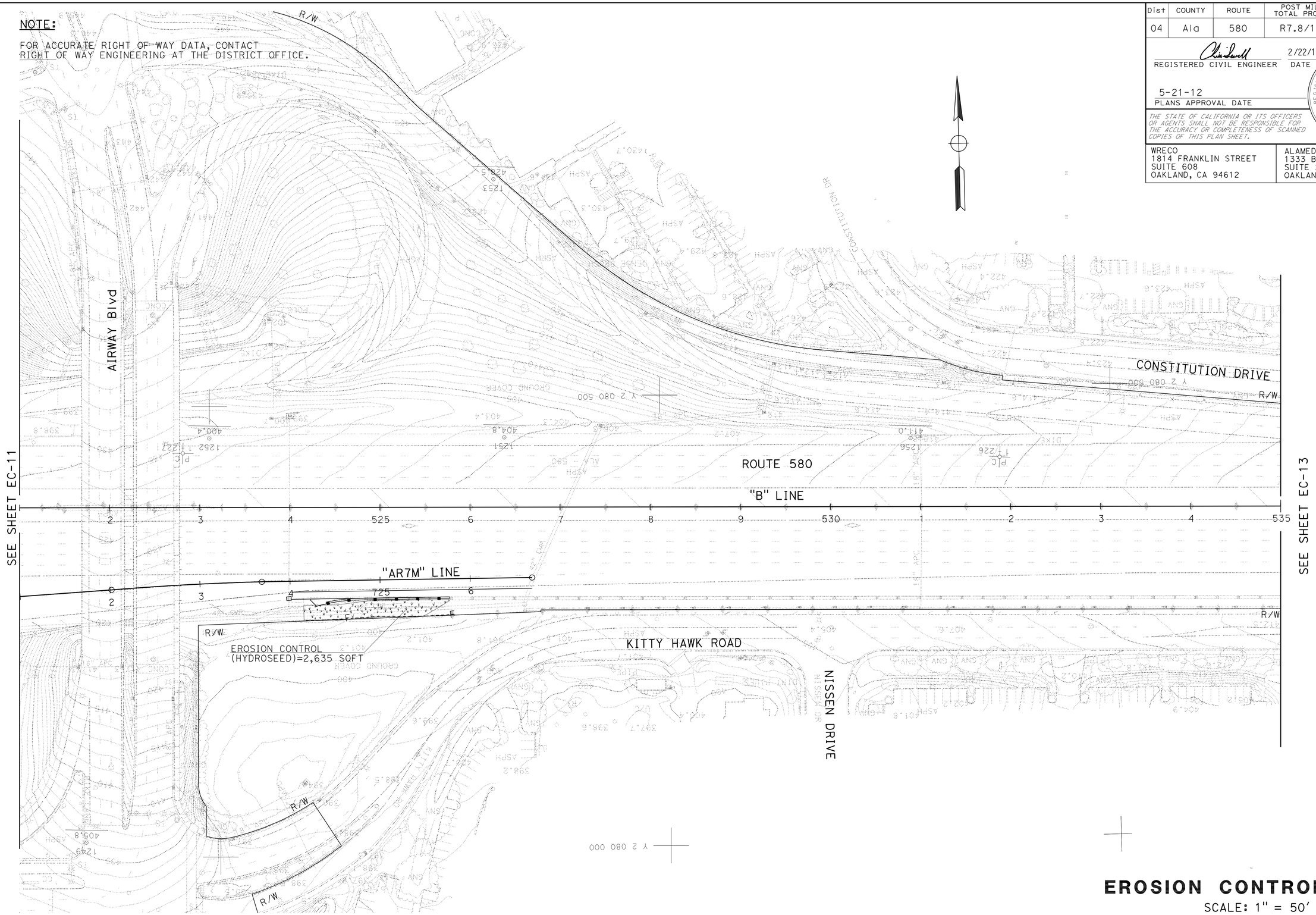

EROSION CONTROL PLAN

SCALE: 1" = 50'

EC-12

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DATE REVISED

LAST REVISION 02-22-12

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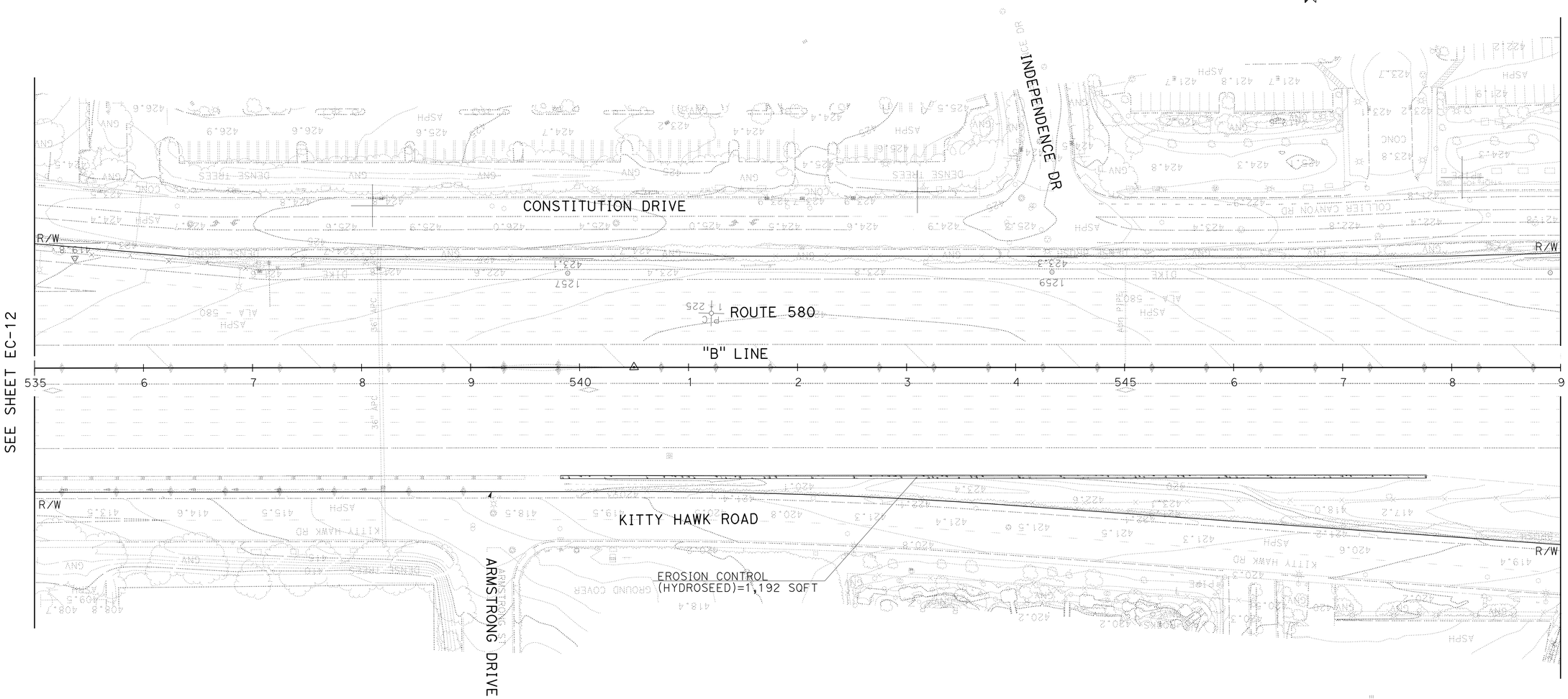

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EROSION CONTROL PLAN

SCALE: 1" = 50'

EC-13

REVISED BY	DATE REVISED

JEFF TUDD — CALCULATED-DESIGNED BY
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER — DATE 2/22/12

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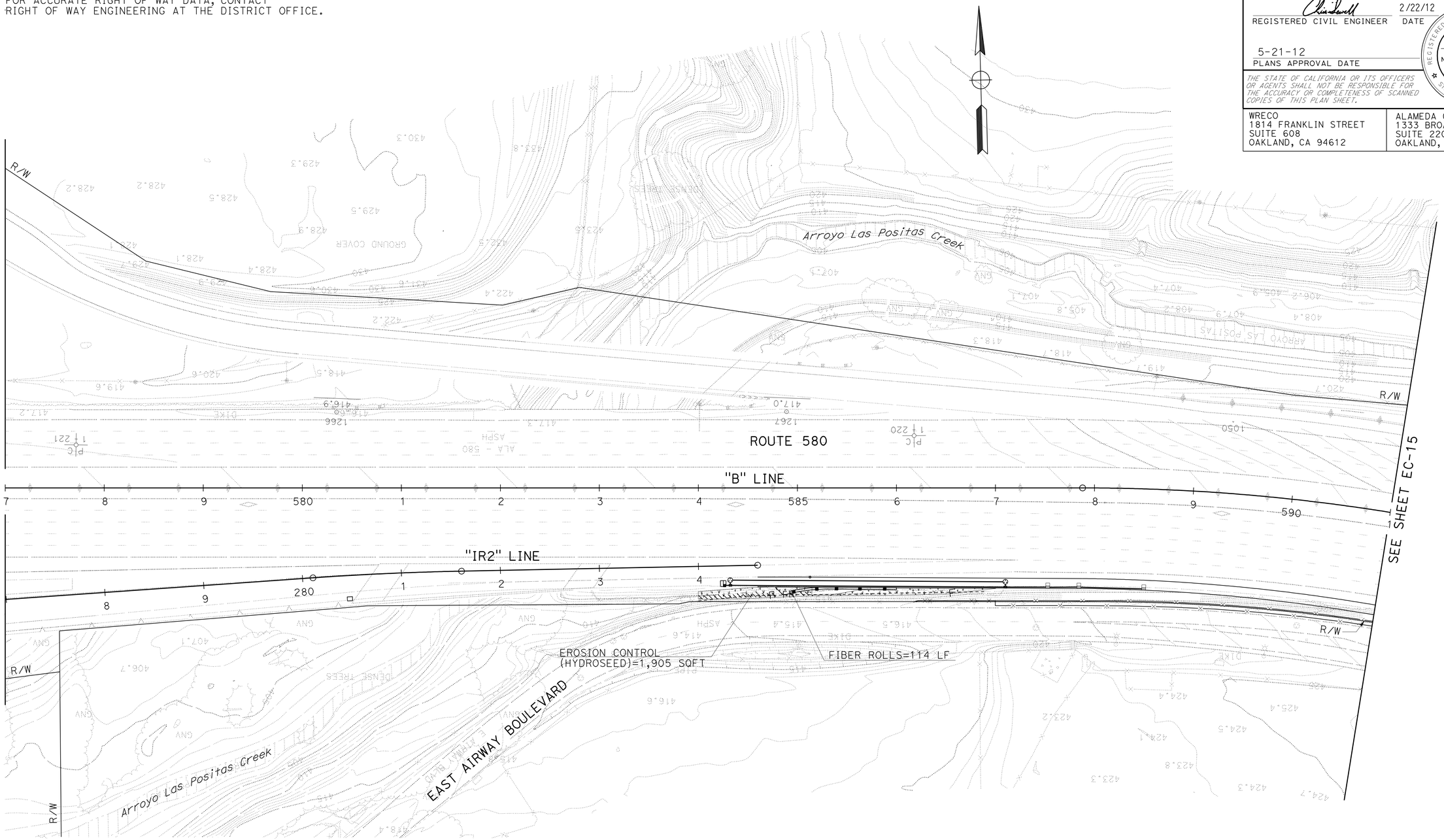

EROSION CONTROL PLAN

SCALE: 1" = 50'

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PLANS APPROVAL DATE

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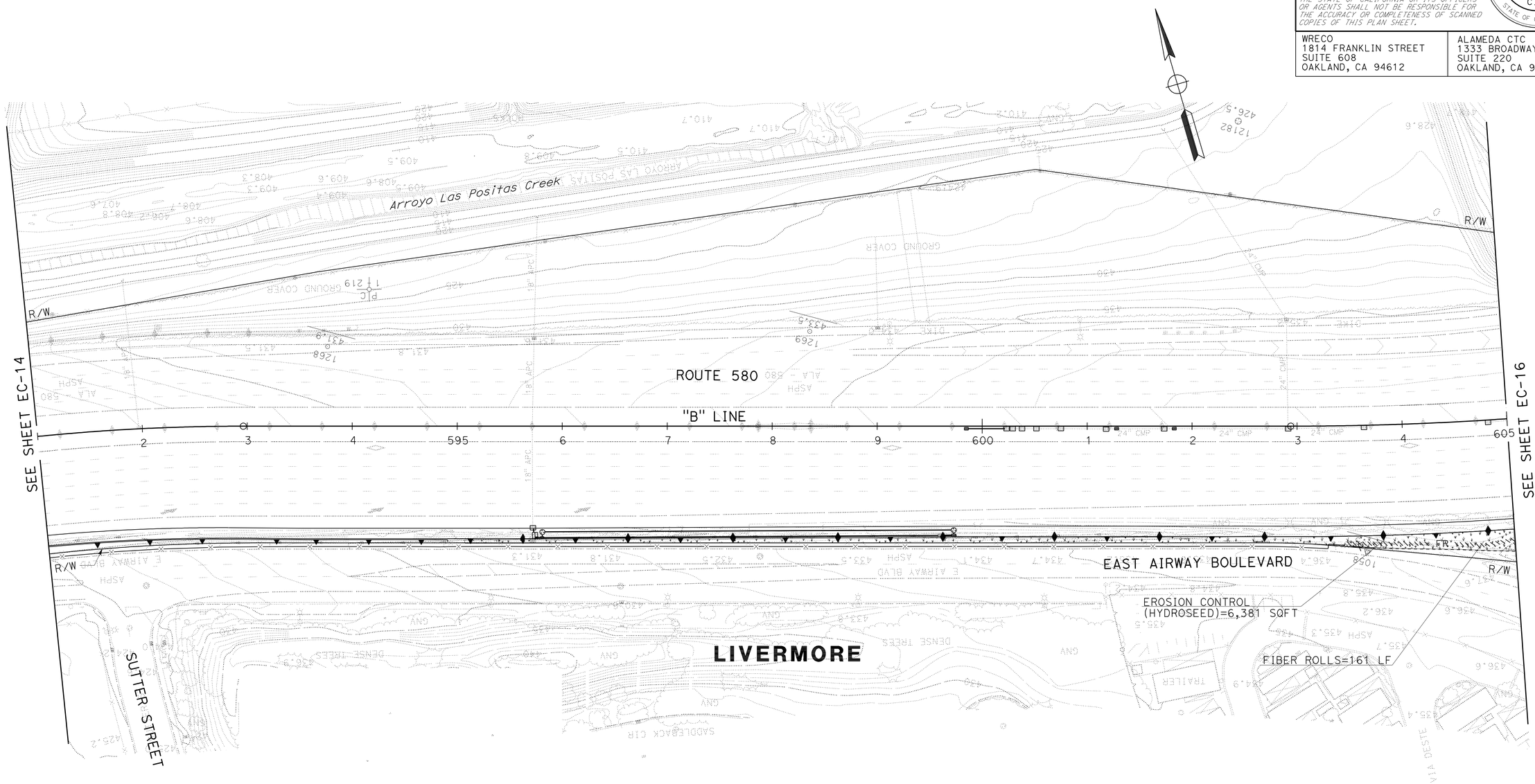

EROSION CONTROL PLAN

SCALE: 1" = 50'

APPROVED FOR EROSION CONTROL WORK ONLY

EC-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CONSULTANT FUNCTIONAL SUPERVISOR: HAN-BIN LIANG
CALCULATED-DESIGNED BY: JEFF TUDD
CHECKED BY: CHRIS SEWELL
REVISED BY
DATE REVISED

LAST REVISION 02-22-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 11:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	88	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

5-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER SEWELL No. C 64807 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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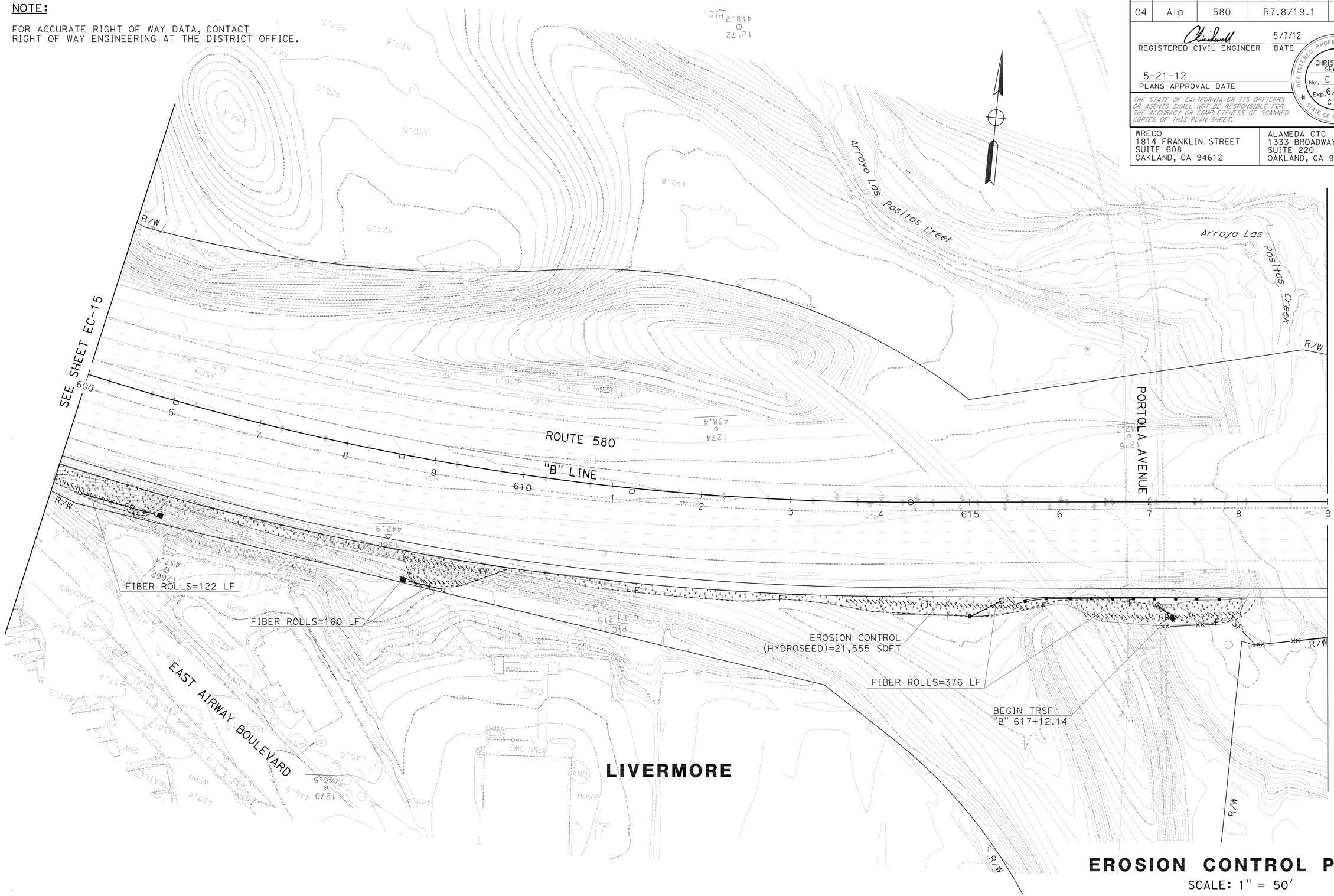

EROSION CONTROL PLAN

SCALE: 1" = 50'

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JT	5/12

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	89	681

REGISTERED CIVIL ENGINEER — DATE 5/7/12

5-21-12
PLANS APPROVAL DATE

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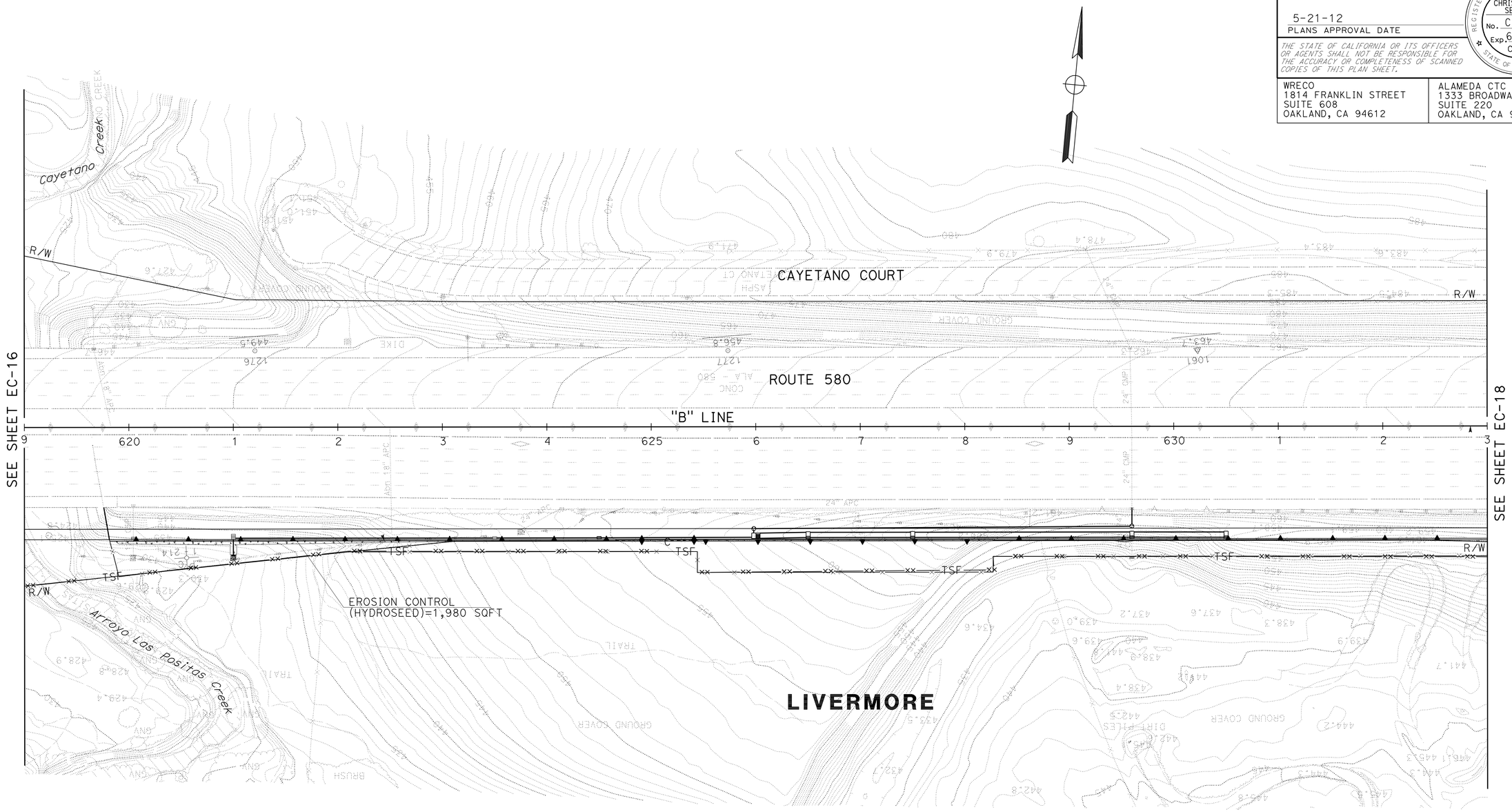

EROSION CONTROL PLAN

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	90	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

5-21-12
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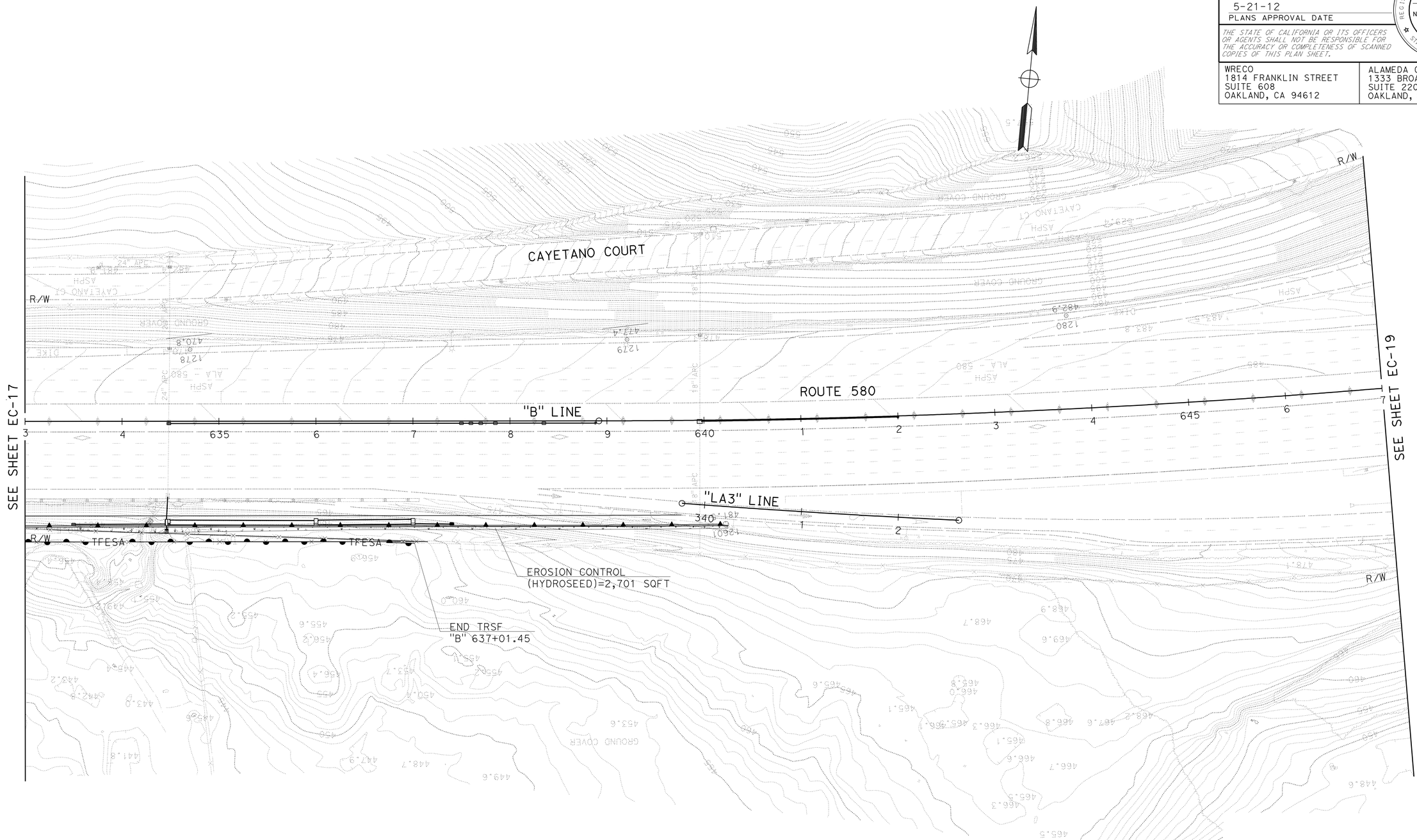

EROSION CONTROL PLAN

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	91	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

5-21-12
PLANS APPROVAL DATE

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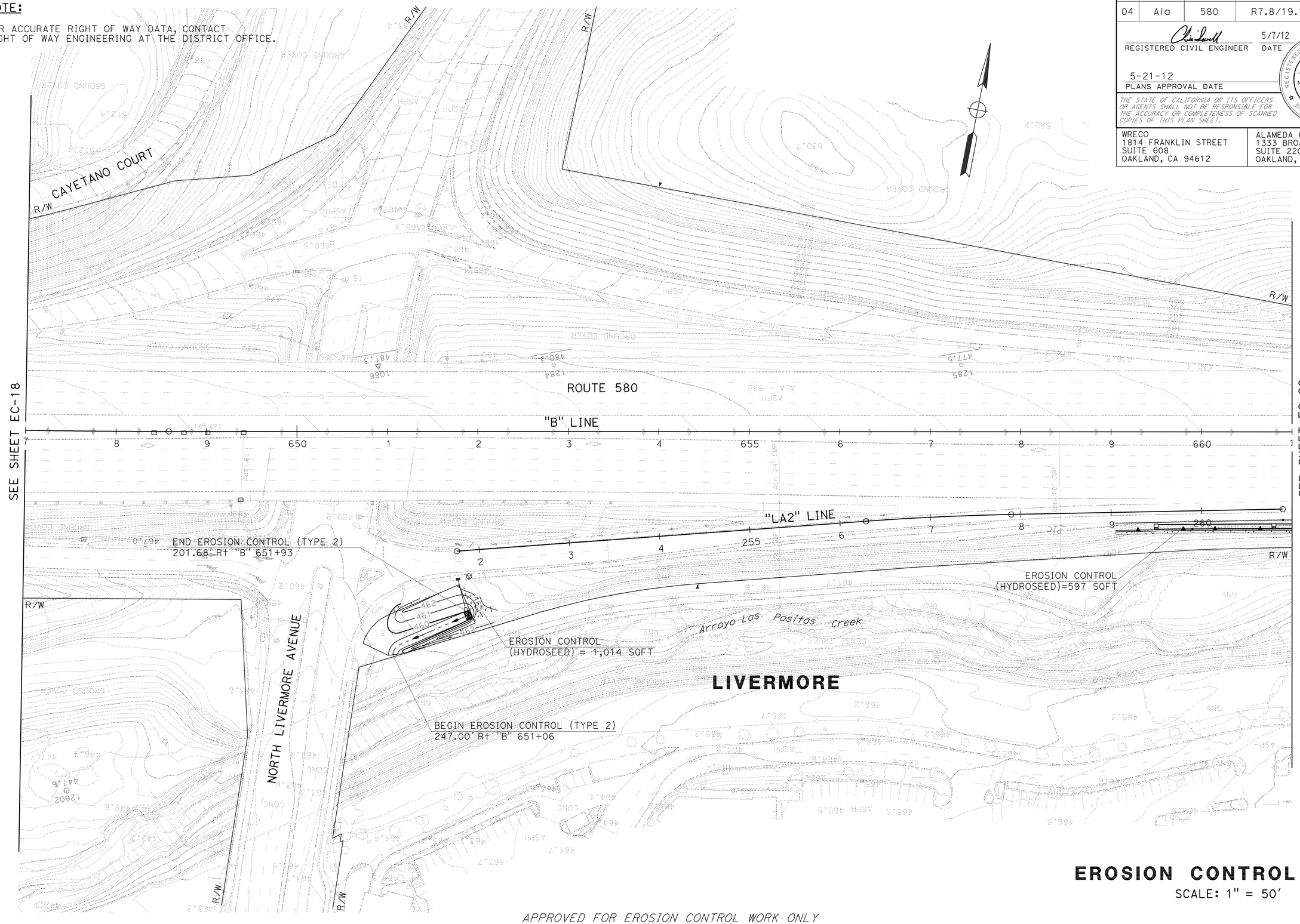

EROSION CONTROL PLAN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	92	681

REGISTERED CIVIL ENGINEER — DATE 2/22/12

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PLANS APPROVAL DATE

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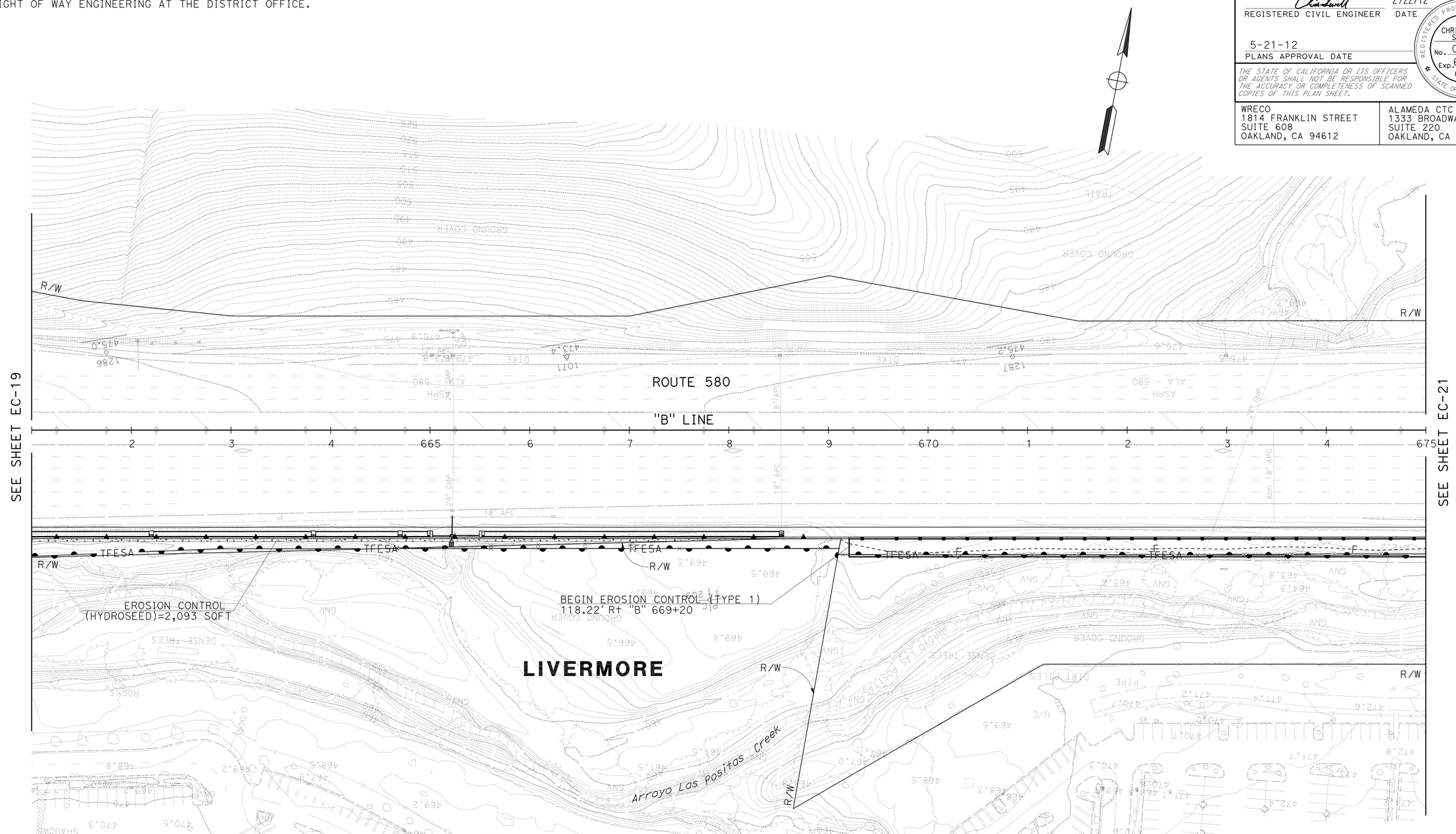

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EROSION CONTROL PLAN

SCALE: 1" = 50'

EC-20

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TIME PLOTTED => 11:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	93	681

REGISTERED CIVIL ENGINEER — DATE 5/7/12

5-21-12
PLANS APPROVAL DATE

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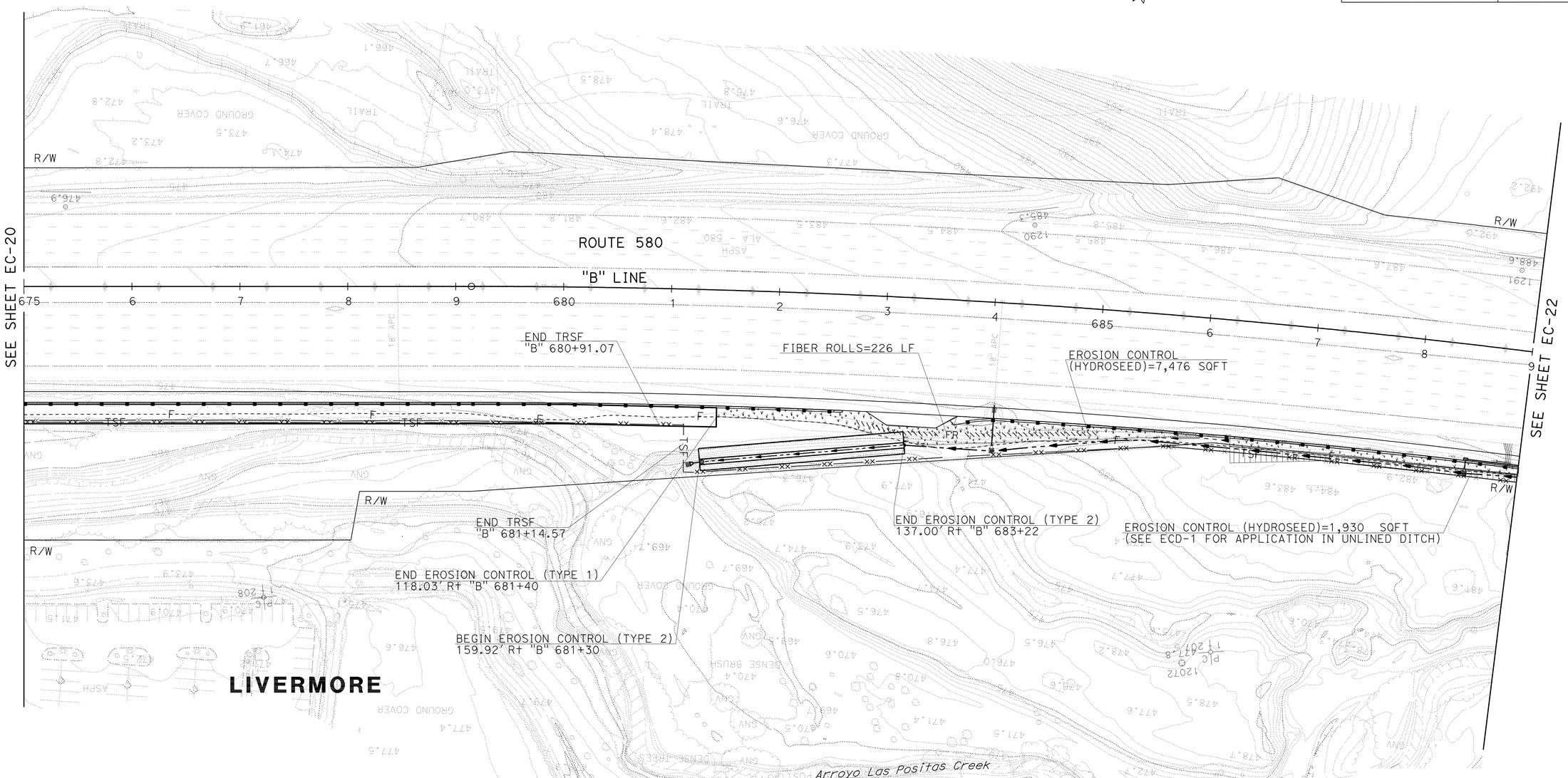

EROSION CONTROL PLAN

SCALE: 1" = 50'

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EC-21

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	94	681

REGISTERED CIVIL ENGINEER 5/7/12 DATE

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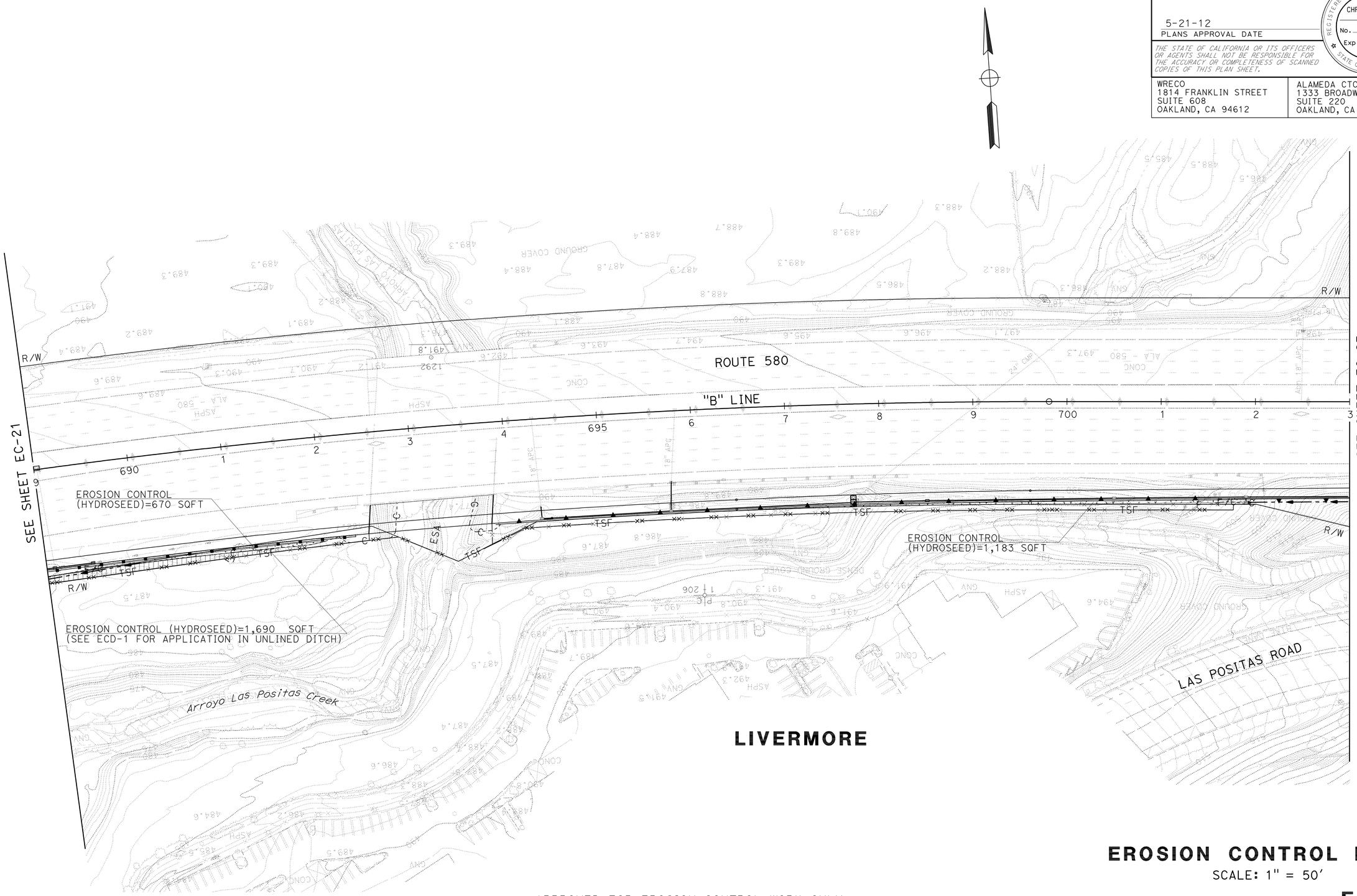

EROSION CONTROL PLAN

SCALE: 1" = 50'

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EC-22

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REVISED BY: JT
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LAST REVISION 5-7-12
DATE PLOTTED => 21-MAY-2012
TIME PLOTTED => 11:18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	95	681

REGISTERED CIVIL ENGINEER 2/22/12 DATE

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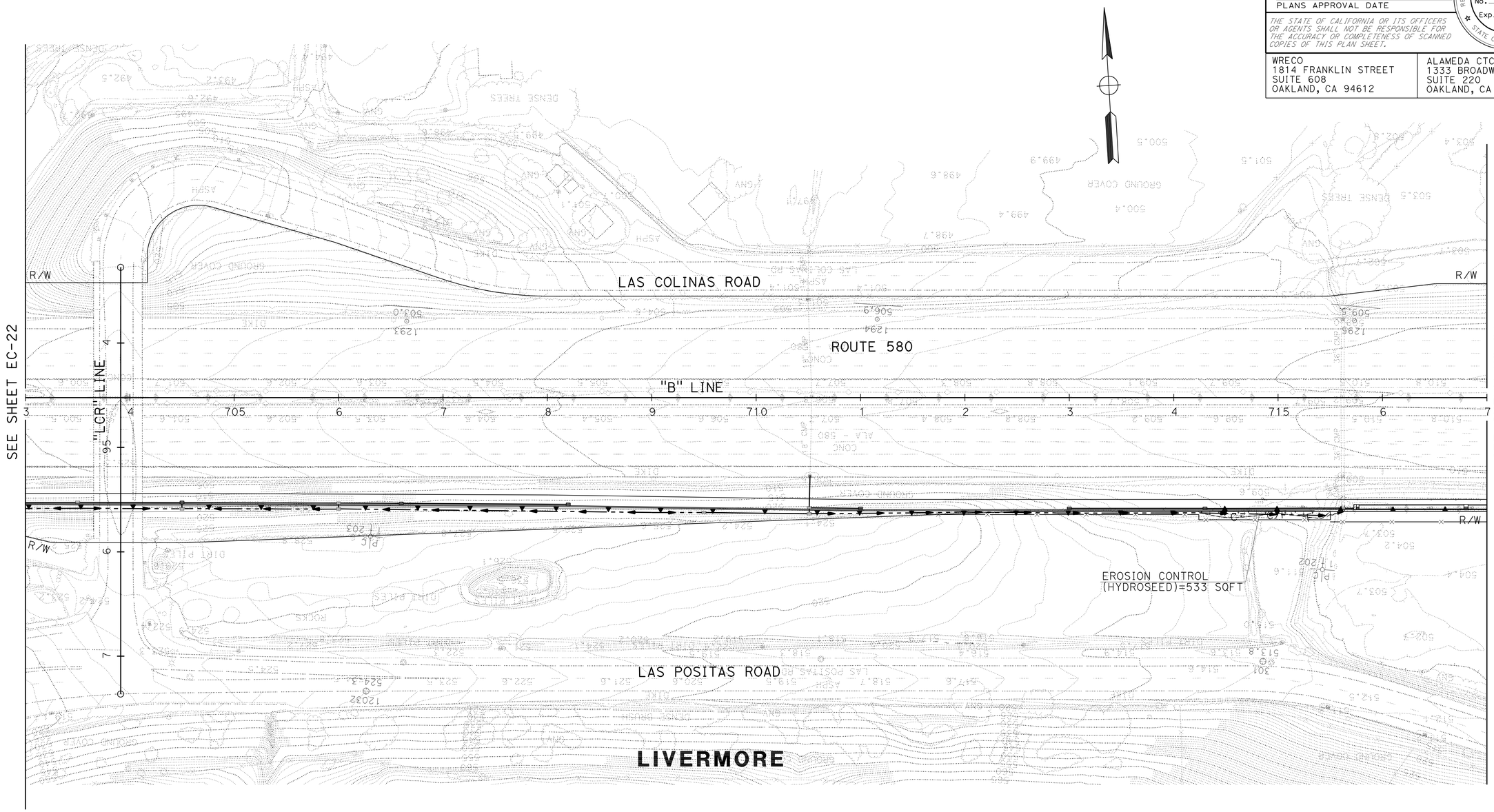

EROSION CONTROL PLAN

SCALE: 1" = 50'

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EC- 23

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JEFF TUDD | CHRIS SEWELL

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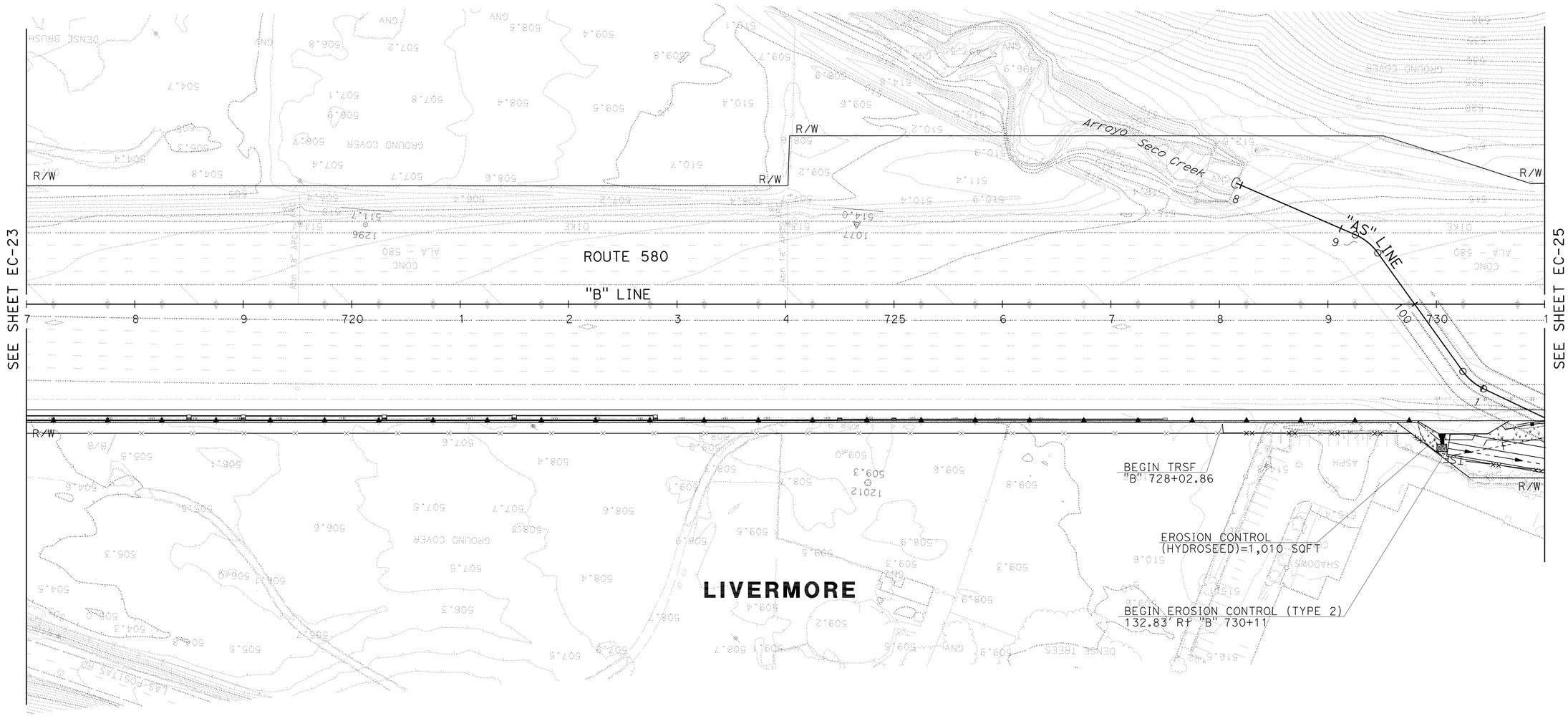

EROSION CONTROL PLAN

SCALE: 1" = 50'

EC-24

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TIME PLOTTED => 11:18
LAST REVISION 5-7-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	97	681

REGISTERED CIVIL ENGINEER — DATE 5/7/12

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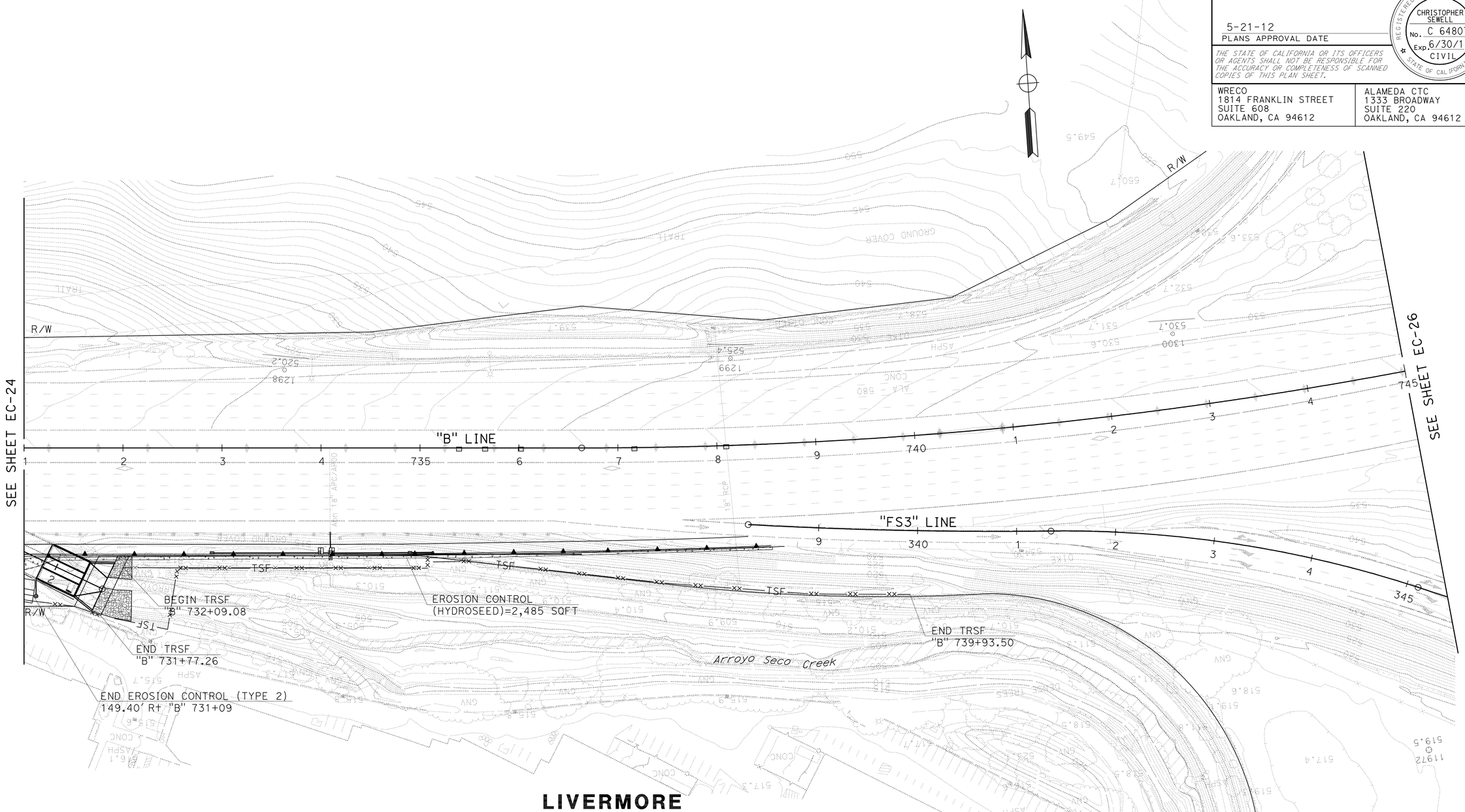

EROSION CONTROL PLAN

SCALE: 1" = 50'

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EC-25

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JT	5/12

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04	Ala	580	R7.8/19.1	98	681

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EROSION CONTROL PLAN

SCALE: 1" = 50'

EC-26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

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REVISED BY: JT — DATE REVISED: 5/12

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	R7.8/19.1	99	681

REGISTERED CIVIL ENGINEER — DATE 5/7/12

5-21-12
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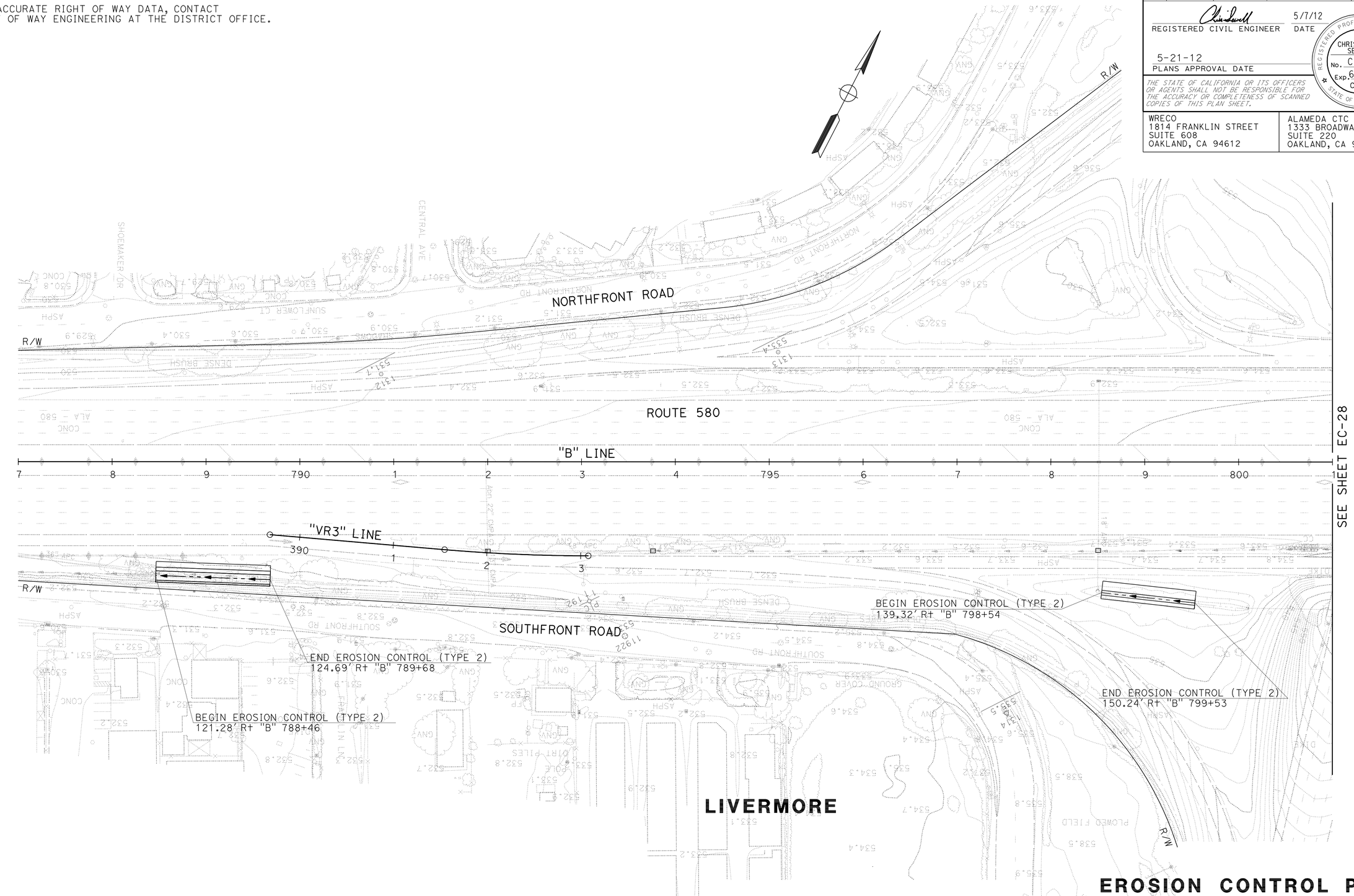

EROSION CONTROL PLAN

SCALE: 1" = 50'

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REGISTERED CIVIL ENGINEER 5/7/12 DATE

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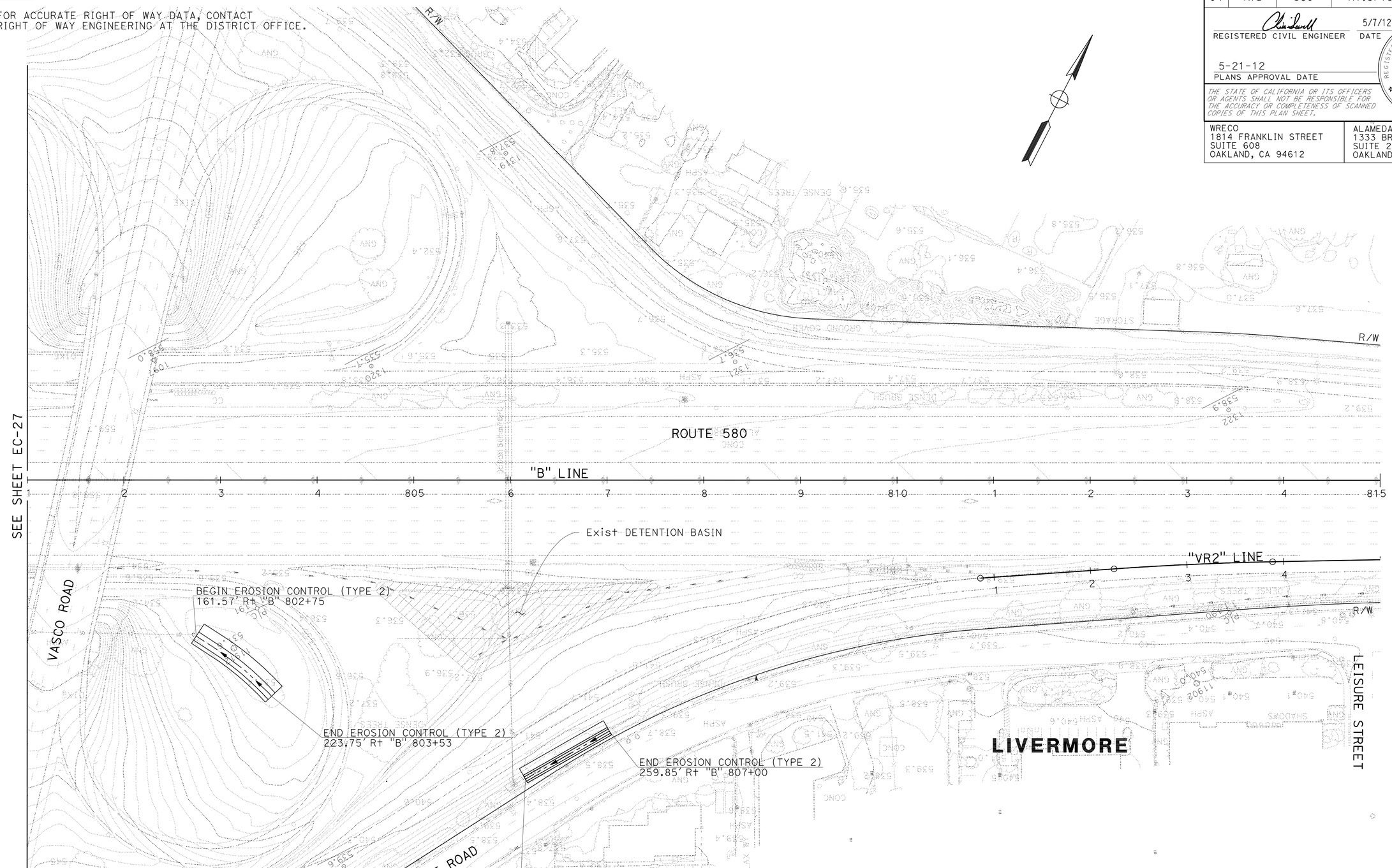

EROSION CONTROL PLAN

SCALE: 1" = 50'

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CHECKED BY: CHRIS SEWELL

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