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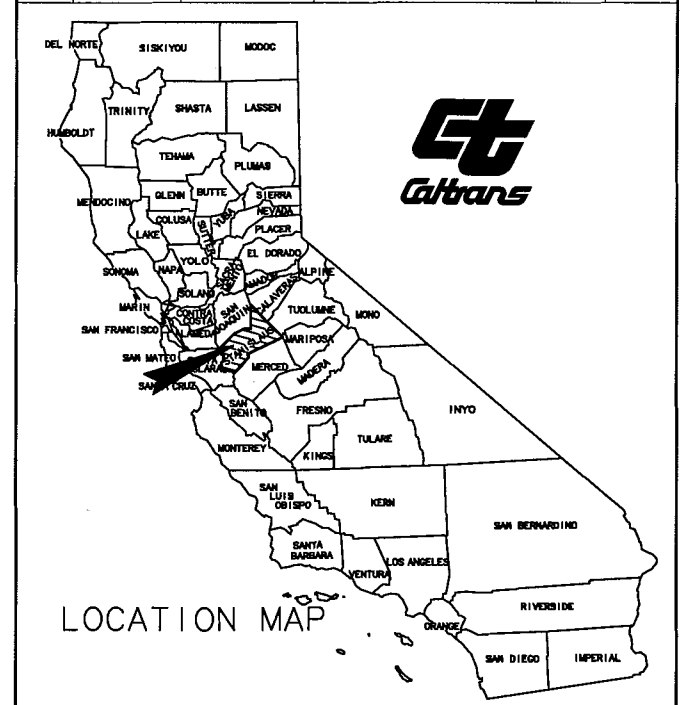
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STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

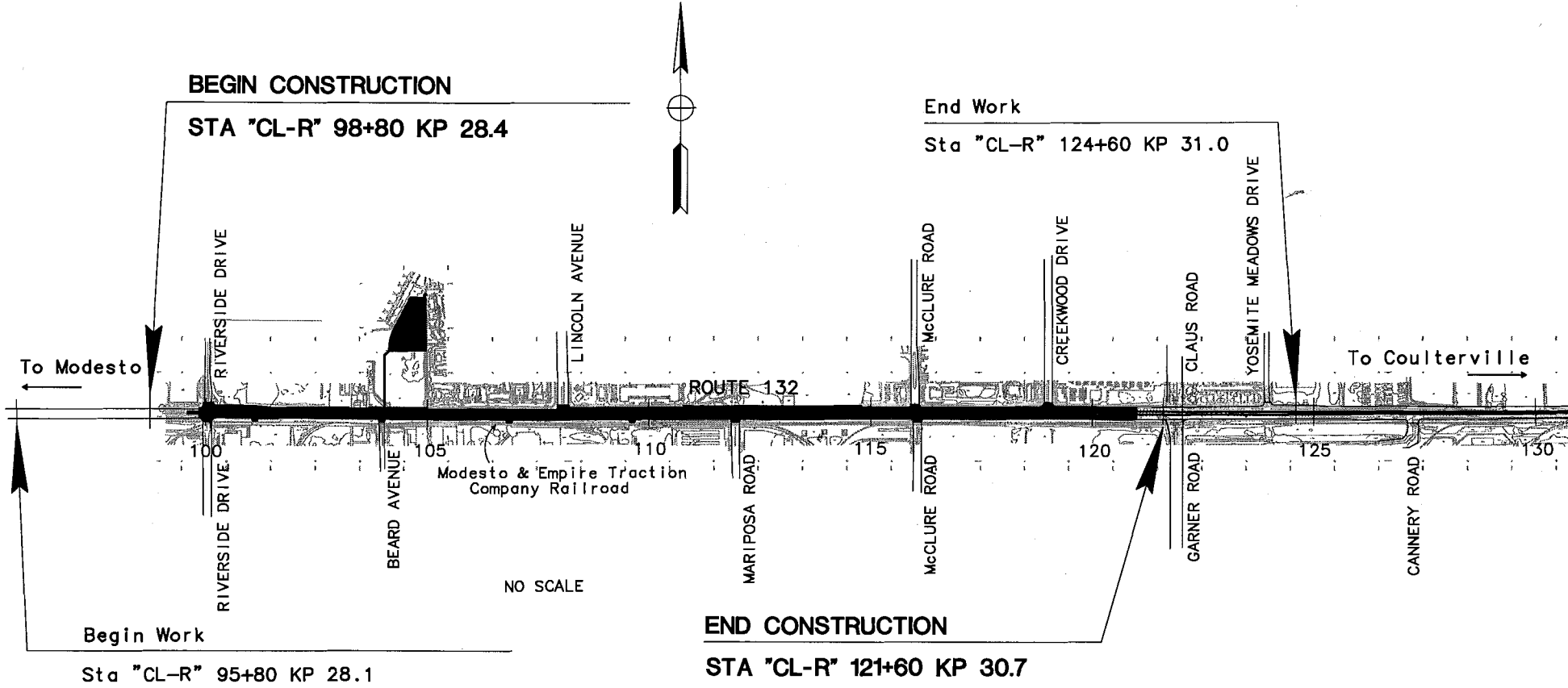
PROJECT PLANS FOR CONSTRUCTION ON  
**STATE HIGHWAY**  
IN STANISLAUS COUNTY  
IN MODESTO  
FROM RIVERSIDE DRIVE TO 0.3 KM EAST OF  
GARNER ROAD/CLAUS ROAD

To be supplemented by Standard Plans dated July 2004

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	STA	132	28.4/30.7	1	



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Approved as to impact on State facilities and conformance with applicable State standards and practices and that technical oversight was performed as described in the California Department of Transportation A & E Consultants Service Manual.

PROJECT ENGINEER	DESIGN OVERSIGHT APPROVAL	REGISTRATION NO.	DATE
CHRISTINA HIBBARD	SIGNATURE		

The Contractor shall possess the Class (or Classes) of license as specified in the "Notice to Contractors".

Approved as to Features Affecting City of Modesto Facilities

Project Manager Date  
Registered Civil Engineer

Plans Approval Date



STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CALIFORNIA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95128

Contract No. **10-3A1104**

**100% REVISED PLANS**  
**JULY 7, 2006**

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	2	



REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06  
CIVIL ENGINEER  
STATE OF CALIFORNIA

PLANS APPROVAL DATE

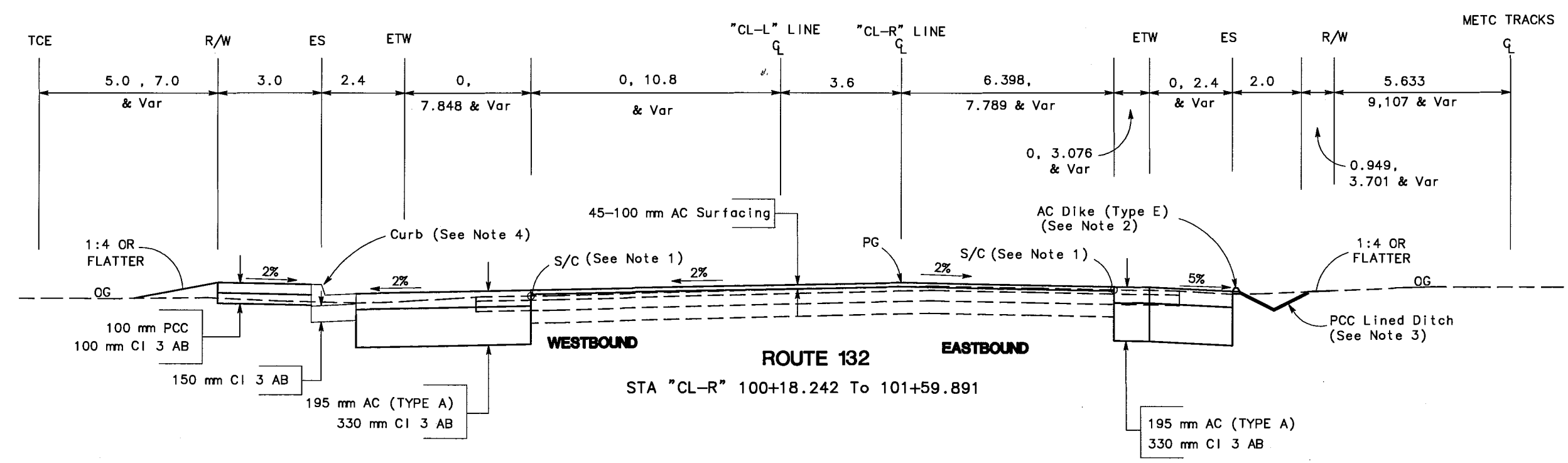
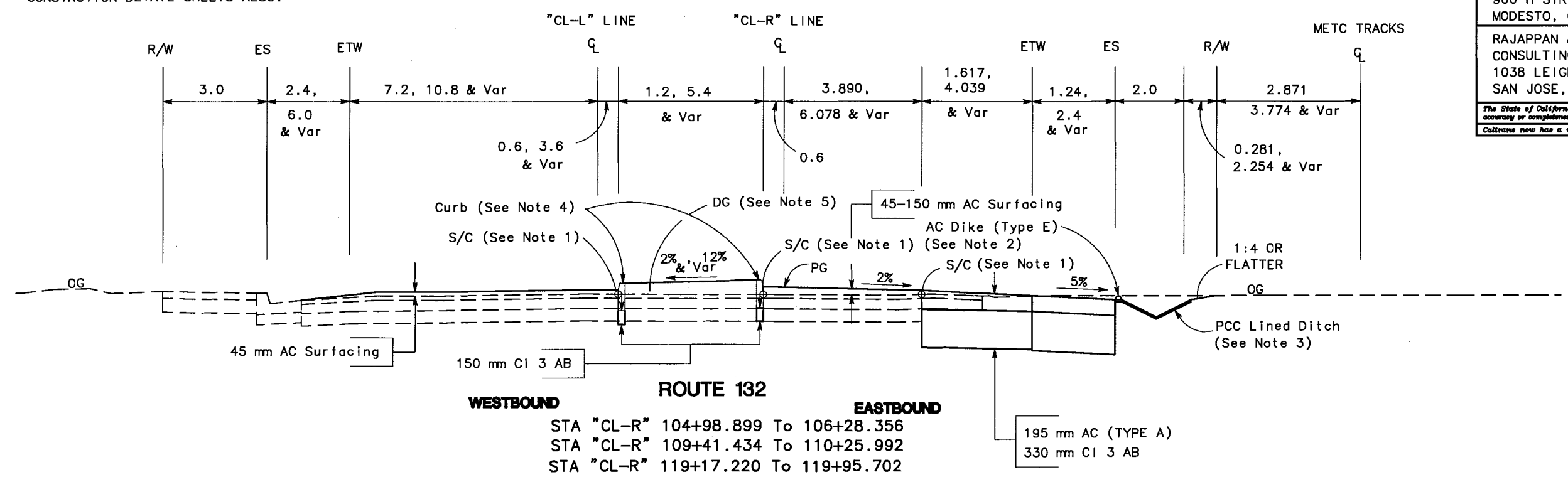
STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

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1038 LEIGH AVENUE, SUITE 100  
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- NOTES:
- FOR LOCATION OF SAWCUT LINES, SEE LAYOUT PLANS.
  - FOR LOCATION AND TYPE OF AC DIKE, SEE LAYOUT PLANS.
  - FOR LOCATIONS AND ELEVATION OF DITCH, SEE DRAINAGE PLANS.
  - FOR LOCATIONS AND TYPE OF CURB, SEE LAYOUT PLANS.
  - COMPACT SOIL AND A LAYER OF DECOMPOSED GRANITE WILL FILLED THE MEDIAN WHERE PAVEMENT IS TO BE REMOVED. (SEE LAYOUT FOR LOCATIONS)
  - DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
  - SUPERELEVATION AS SHOWN OR AS DIRECTED BY ENGINEER.
  - FOR WORKS AT INTERSECTION AREA, SEE CONSTRUCTION DETAIL SHEETS ALSO.

- ABBREVIATIONS
- DG DECOMPOSED GRANITE
  - METC MODESTO & EMPIRE TRACTION COMPANY
  - S/C SAWCUT & CONFORM
  - TCE TEMPORARY CONSTRUCTION EASEMENT



REVISIONS:

NO.	DATE	BY	REVISION
1	5/06	BG	DESIGNED
2	5/06	BG	CHECKED

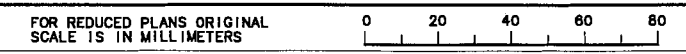
DESIGN OVERSIGHT: CHRISTINA HIBBARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**TYPICAL CROSS SECTIONS**  
NO SCALE X-1

**FINAL SUBMITTAL**  
**JULY 7, 2006**

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	3	



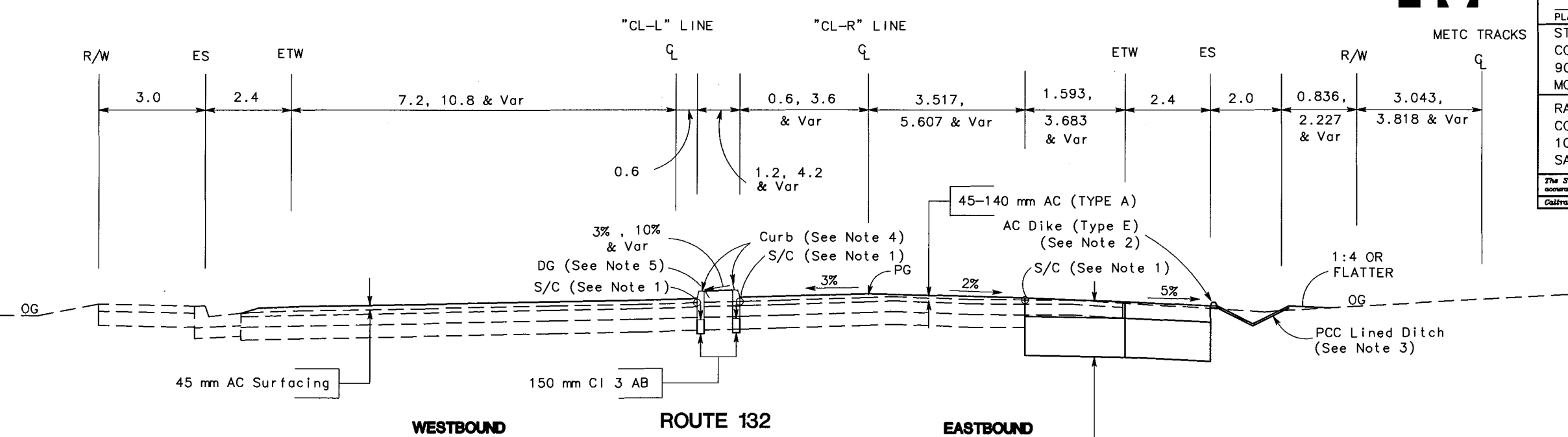
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
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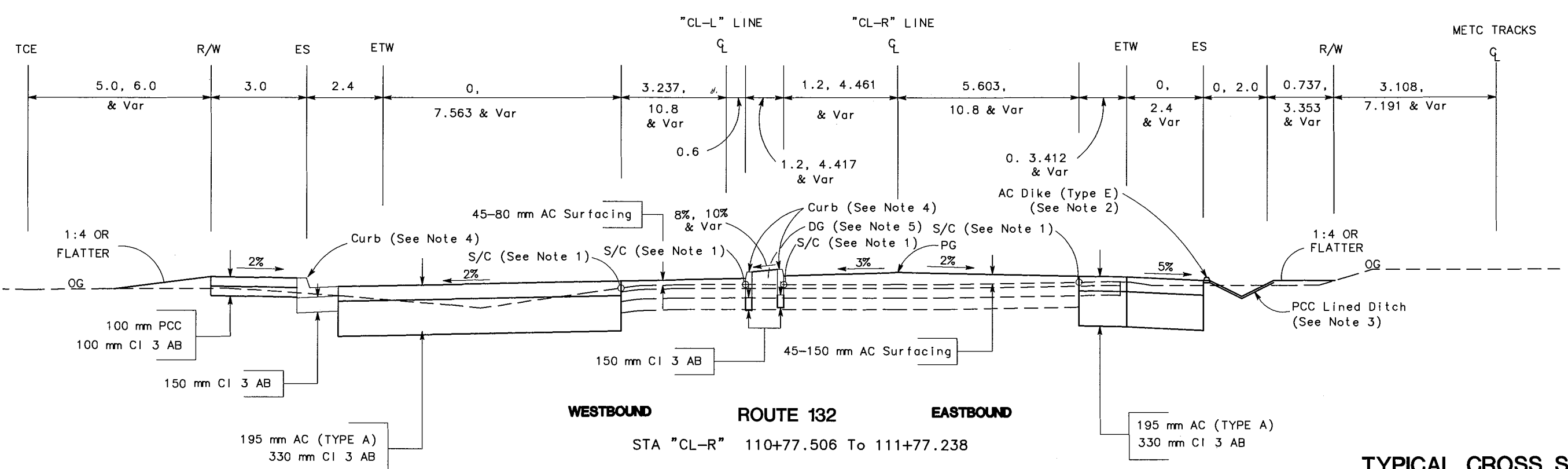
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**ROUTE 132**

STA "CL-R"	110+25.992 To 110+77.506
STA "CL-R"	114+78.930 To 115+82.569
STA "CL-R"	117+14.277 To 118+83.756
STA "CL-R"	119+95.702 To 120+21.995



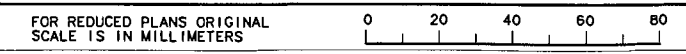
**ROUTE 132**  
STA "CL-R" 110+77.506 To 111+77.238

**TYPICAL CROSS SECTIONS**  
NO SCALE  
X-2

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

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**JULY 7, 2006**



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CU 06251

EA 3A1101

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 CHECKED BY: [ ]  
 DATE REVISED BY: [ ]  
 DATE 5/06 BY: [ ]  
 DATE 5/06 BY: [ ]

DATE PLOTTED => \$DATE  
 \$TIME  
 9-3-04  
 LAST REVISION



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	4	

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

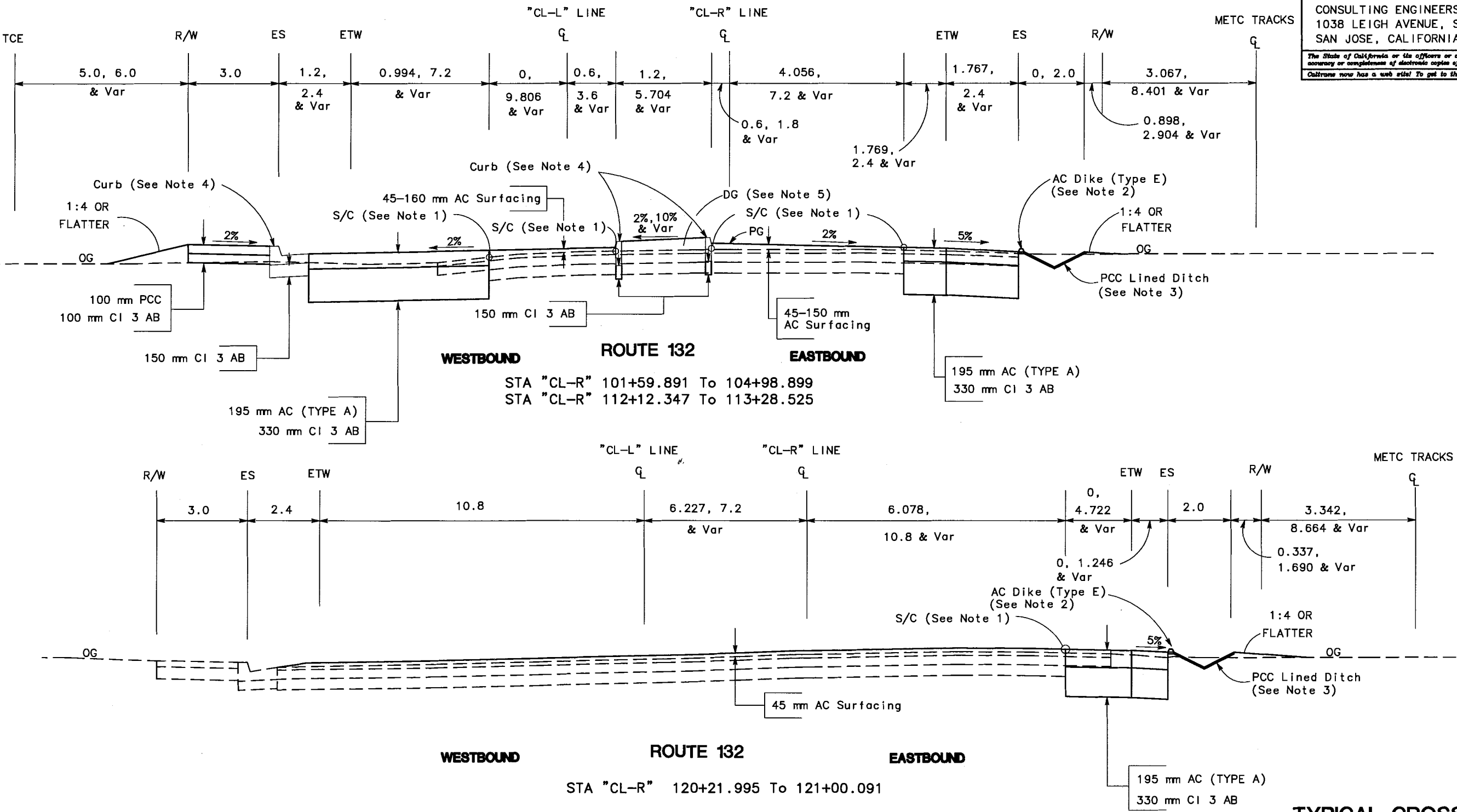
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 DATE REVISED BY



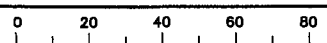
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FOR NOTES, ABBREVIATIONS  
AND LEGEND, SEE SHEET X-1.

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**JULY 7, 2006**

**TYPICAL CROSS SECTIONS**  
NO SCALE  
**X-3**

FOR REDUCED PLANS ORIGINAL  
SCALE IS IN MILLIMETERS



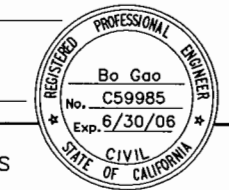
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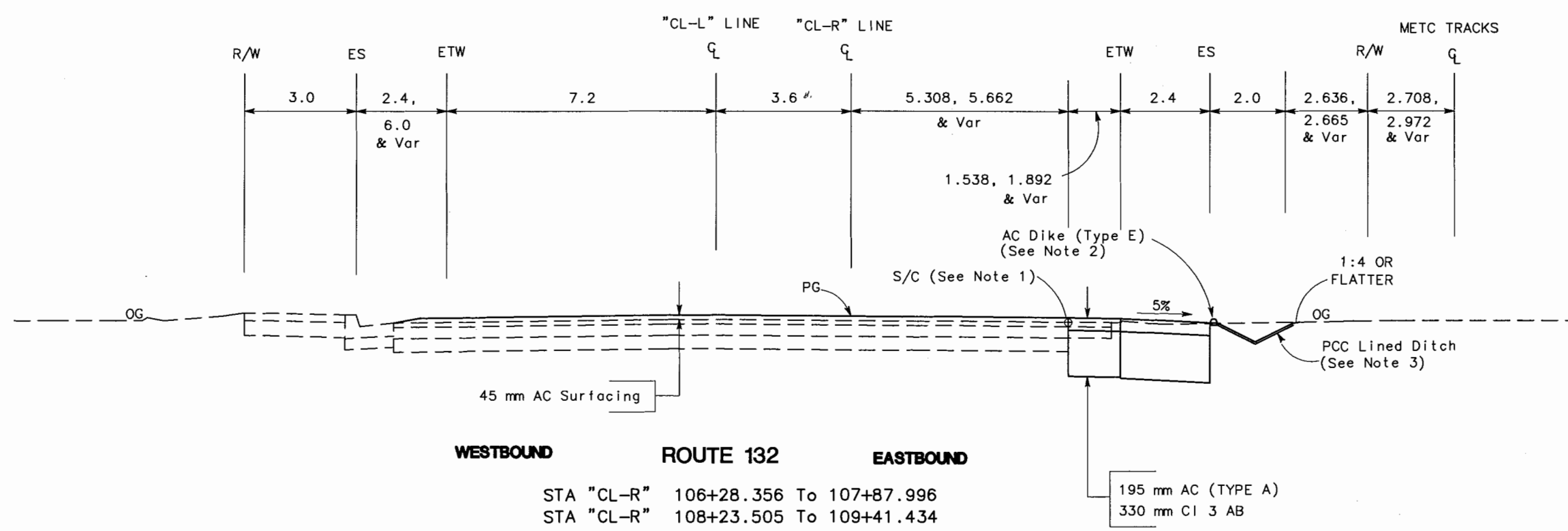
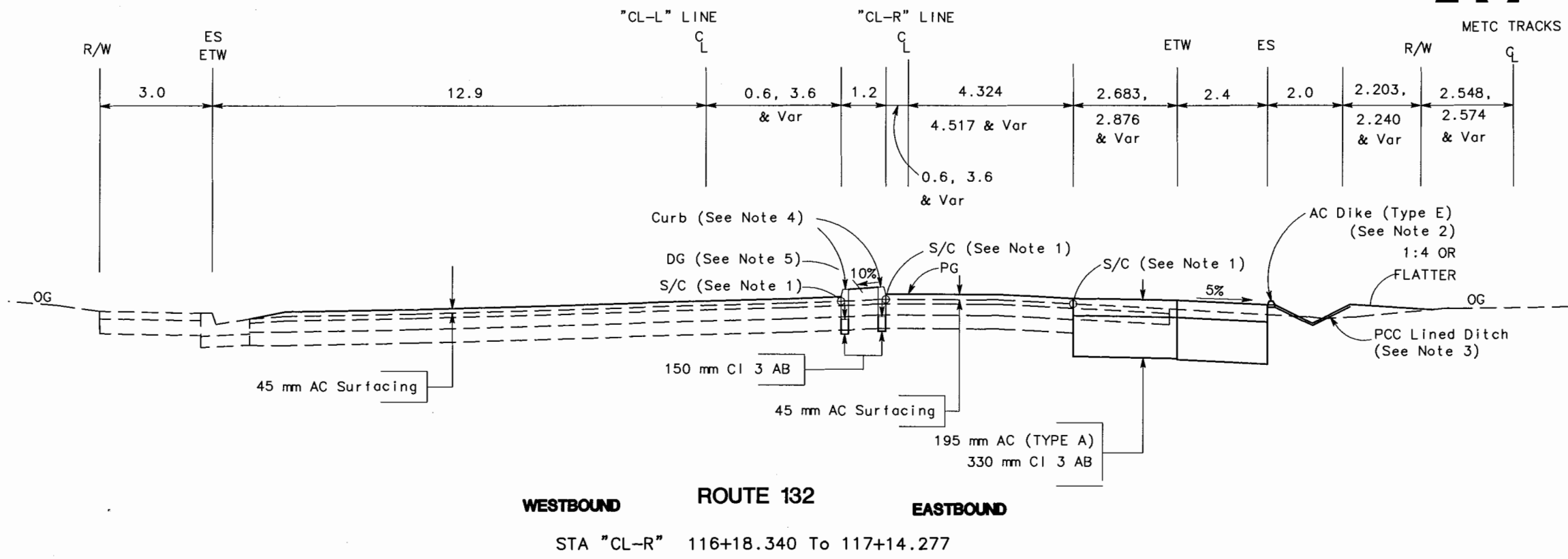
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9-3-04



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER					
					
PLANS APPROVAL DATE					
STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354					
RAJAPPAN & MEYER CONSULTING ENGINEERS, INC. 1038 LEIGH AVENUE, SUITE 100 SAN JOSE, CALIFORNIA 95126					
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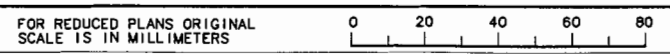


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FOR NOTES, ABBREVIATIONS  
AND LEGEND, SEE SHEET X-1.

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**JULY 7, 2006**

**TYPICAL CROSS SECTIONS**  
NO SCALE  
**X-4**



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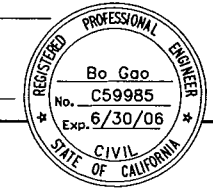
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 CALCULATED/DESIGNED BY: [blank]  
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 DATE 5/06  
 REVISIONS: [blank]

LAST REVISION: 9-3-04  
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 \$TIME



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	6	

REGISTERED CIVIL ENGINEER



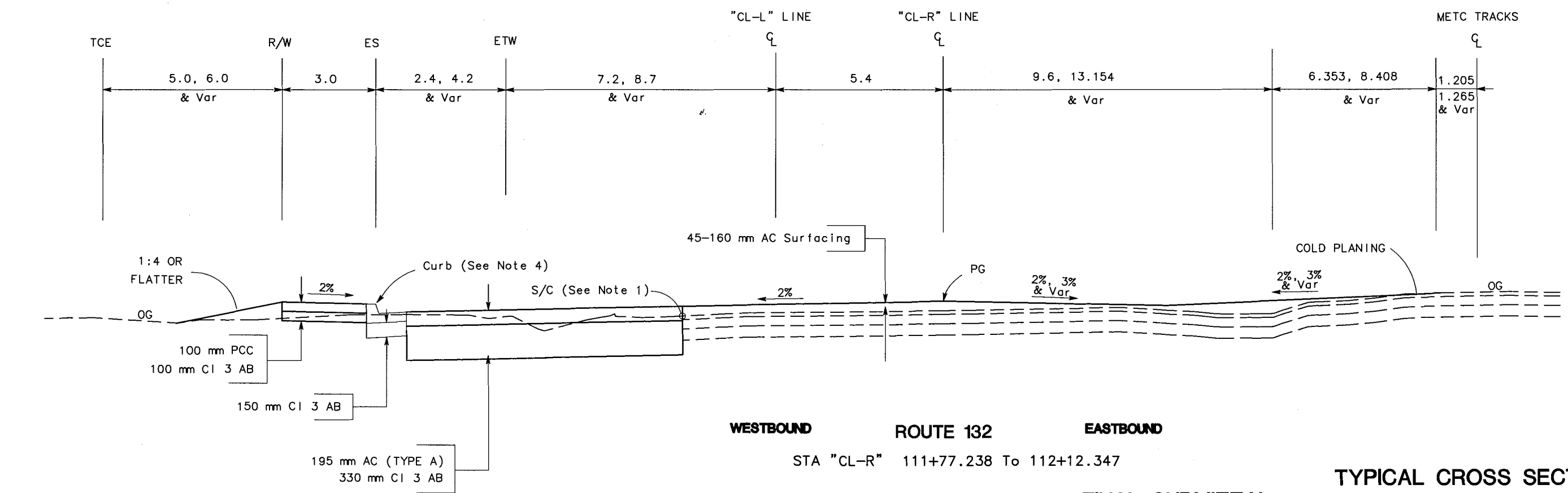
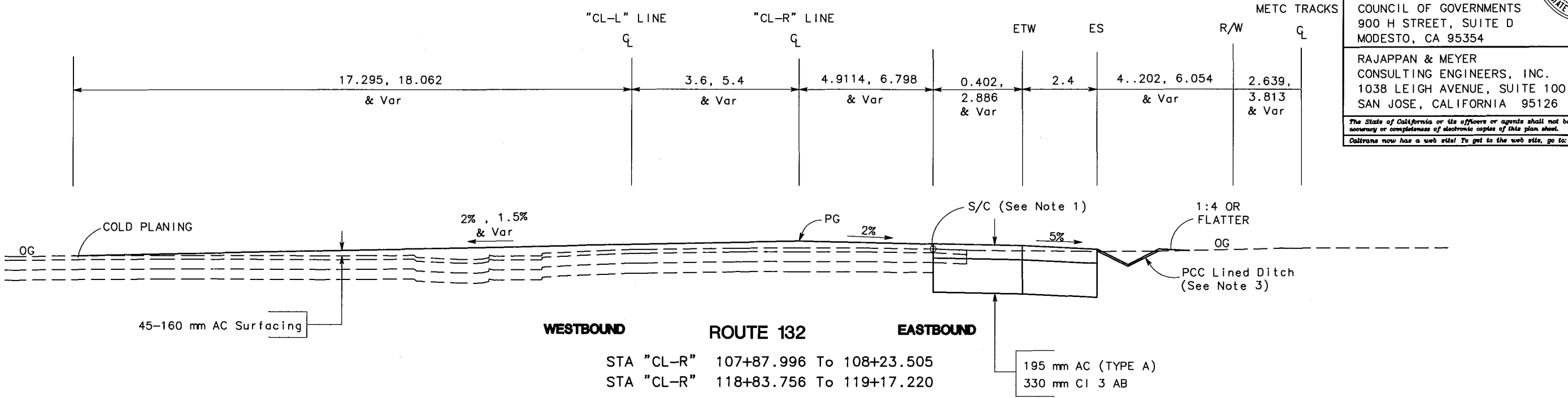
PLANS APPROVAL DATE

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COUNCIL OF GOVERNMENTS  
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MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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5/06  
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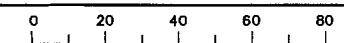
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FOR NOTES, ABBREVIATIONS  
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JULY 7, 2006

TYPICAL CROSS SECTIONS  
NO SCALE  
X-5

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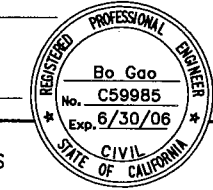


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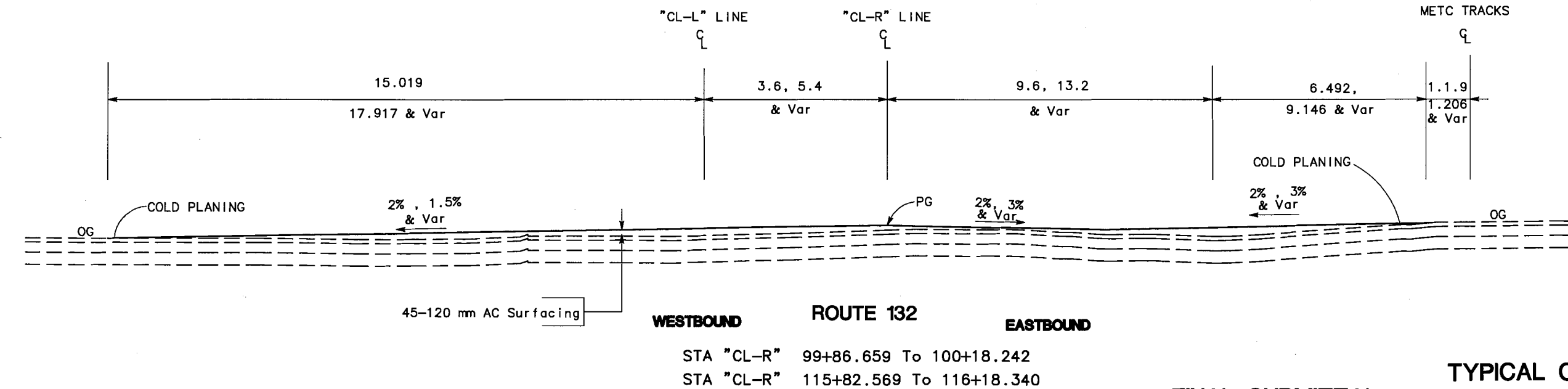
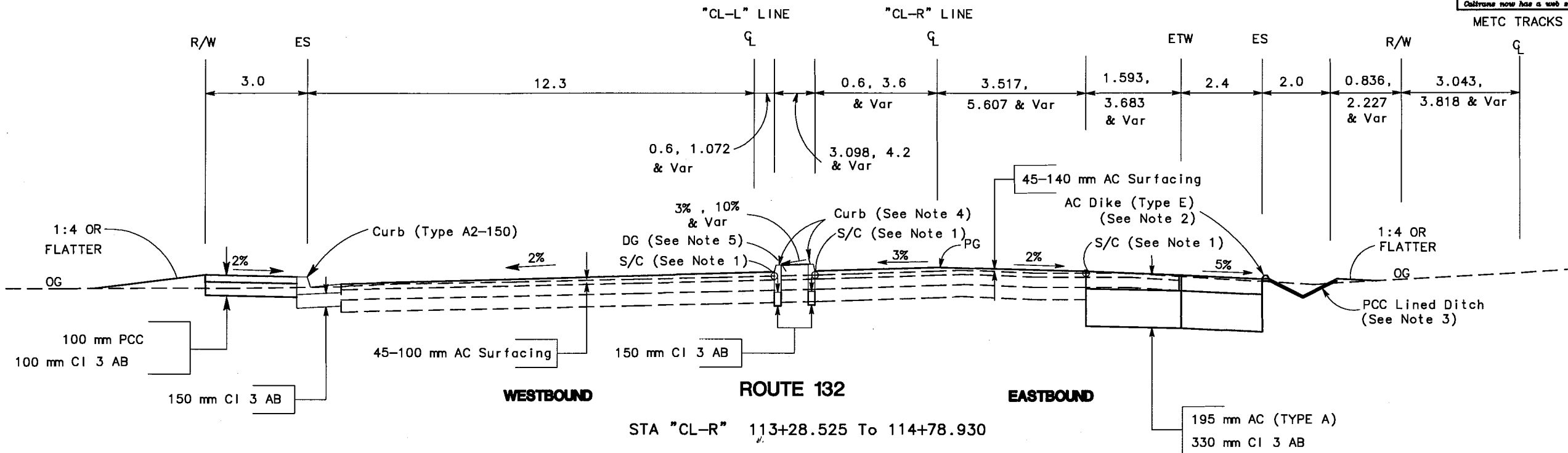
EA 3A1101

DATE PLOTTED => \$DATE  
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9-3-04

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	7	
REGISTERED CIVIL ENGINEER					
					
PLANS APPROVAL DATE					
STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354					
RAJAPPAN & MEYER CONSULTING ENGINEERS, INC. 1038 LEIGH AVENUE, SUITE 100 SAN JOSE, CALIFORNIA 95126					
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 DATE: 5/06  
 REVISOR: BG  
 BY: BG  
 DATE: 5/06

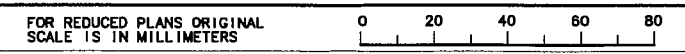


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FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET X-1.

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**JULY 7, 2006**

**TYPICAL CROSS SECTIONS**  
 NO SCALE  
**X-6**



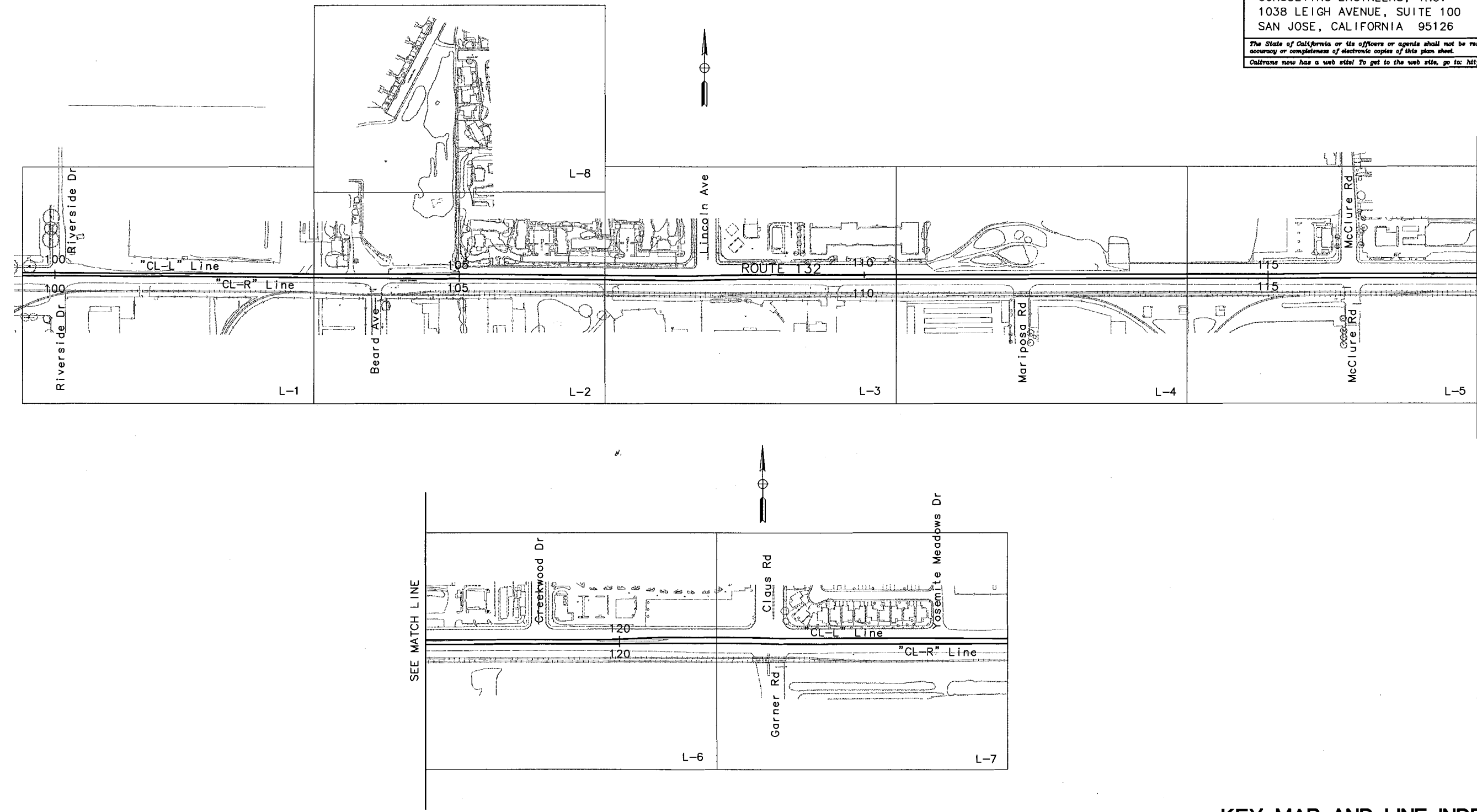
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CALCULATED/ DESIGNED BY	DATE	REVISOR	BY
BG	5/06		
CHECKED BY	DATE	REVISOR	BY
	5/06		



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	8	

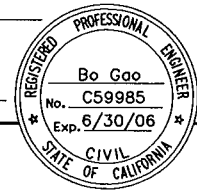
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS  
 COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
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 CONSULTING ENGINEERS, INC.  
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SEE MATCH LINE

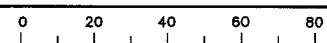
SEE MATCH LINE

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**KEY MAP AND LINE INDEX**  
 NO SCALE  
**K-1**

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	9	



REGISTERED CIVIL ENGINEER

Bo Goo  
No. C59985  
Exp. 6/30/06

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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- ABBREVIATIONS**
- SW Sidewalk
  - REA Round Exposed Aggregate (See C-14 For Details)
  - CR-A Curb Ramp (Type A)
  - CR-D Curb Ramp (Type D)
  - S/C Sawcut & Conform

- LEGEND**
- Irrigation Crossover (See Construction Details)
  - Remove Pavement
  - AC Pavement (See Typical Sections)
  - AC Surfacing
  - Sidewalk Pavement
  - Cold Plane AC Pavement (30 mm) (See C-12 For Details)
  - Block Out Tree Well (See C-14 For Details)

**CURVE DATA**

No.	RADIUS	DELTA	TANGENT	LENGTH	N	E
①	15	89°47'19"	14.945	23.507		
②	12	42°32'44"	4.672	8.911		
③	12	45°52'33"	5.078	9.608		
④	12	46°10'00"	5.114	9.669		
⑤	3000	0°30'30"	13.309	26.619	623411.029	1960614.533
⑥	3000	0°30'30"	13.309	26.619	623407.429	1960614.517

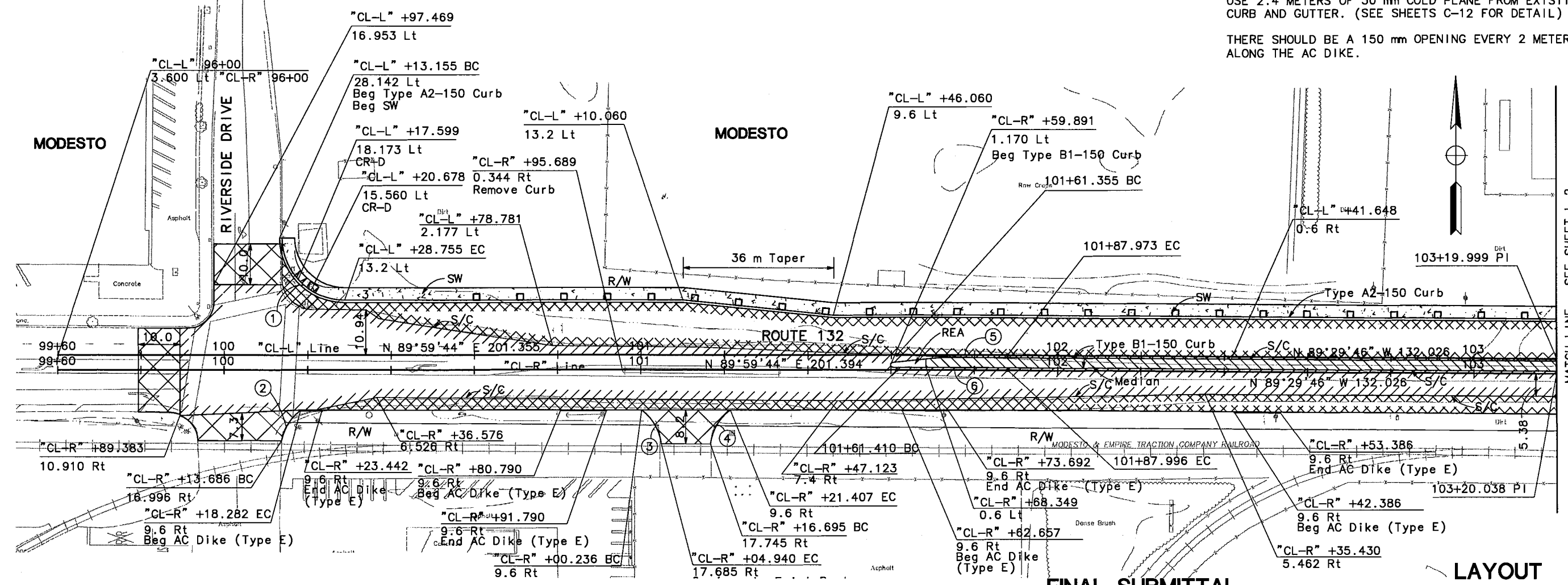
NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

UNLESS OTHERWISE NOTED ALL COORDINATE DISTANCES AND BEARINGS ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. TO OBTAIN GRID DISTANCES MULTIPLY GRID DISTANCES BY 1.0000637

FOR AC SURFACING ALONG EXISTING CURB AND GUTTER, USE 2.4 METERS OF 30 mm COLD PLANE FROM EXISTING CURB AND GUTTER. (SEE SHEETS C-12 FOR DETAIL)

THERE SHOULD BE A 150 mm OPENING EVERY 2 METERS ALONG THE AC DIKE.

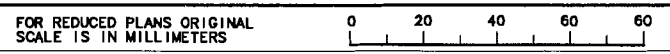
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DESIGN OVERSIGHT  
 CHRISTINA HIBBARD  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE 5/06  
 REVISIONS BY  
 DATE 5/06  
 REVISIONS BY  
 DATE 5/06



**FINAL SUBMITTAL**  
**JULY 7, 2006**

**LAYOUT**  
SCALE 1:500

L-1



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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	10	



REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06

PLANS APPROVAL DATE

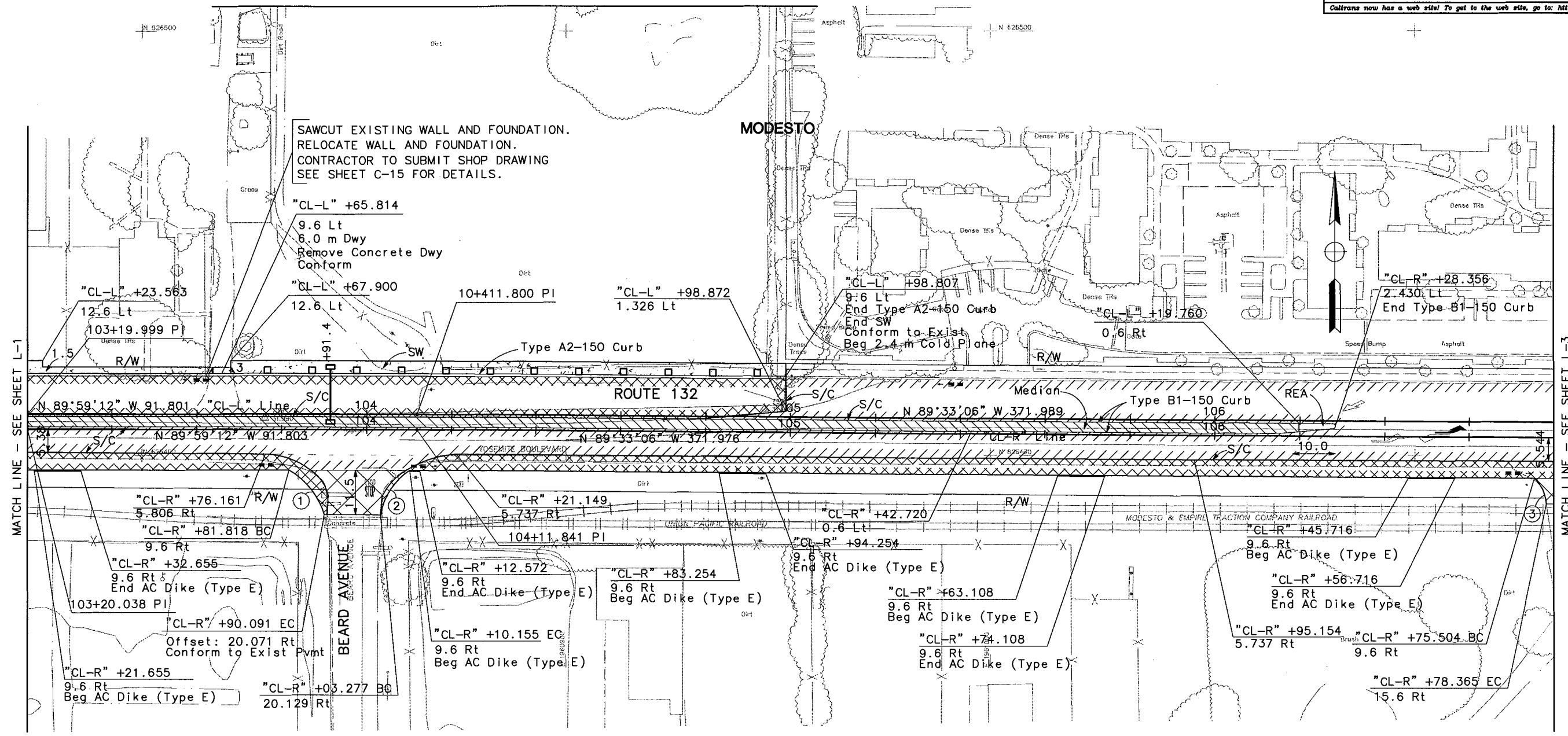
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CONSULTING ENGINEERS, INC.  
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CURVE DATA				
No.	RADIUS	DELTA	TANGENT	LENGTH
①	18	43°31'02"	7.184	13.671
②	15	49°21'47"	6.893	12.923
③	9	43°20'38"	3.576	6.808

MATCH LINE - SEE SHEET L-8



MATCH LINE - SEE SHEET L-1

MATCH LINE - SEE SHEET L-3

DESIGN OVERSIGHT	REVISOR	DATE	BY
CHRISTINA HIBBARD	BY	5/06	BG
DEPARTMENT OF TRANSPORTATION	CHECKED	5/06	BG
STATE OF CALIFORNIA	DESIGNED		
Caltrans	DATE		

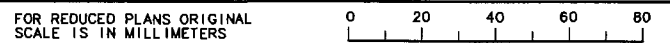
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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1.

FINAL SUBMITTAL  
JULY 7, 2006

LAYOUT  
SCALE 1:500

L-2



USERNAME => USER  
DOM FILE => REQUEST

CU 06251 EA 3A1101

DATE PLOTTED => \$DATE \$TIME



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	11	

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

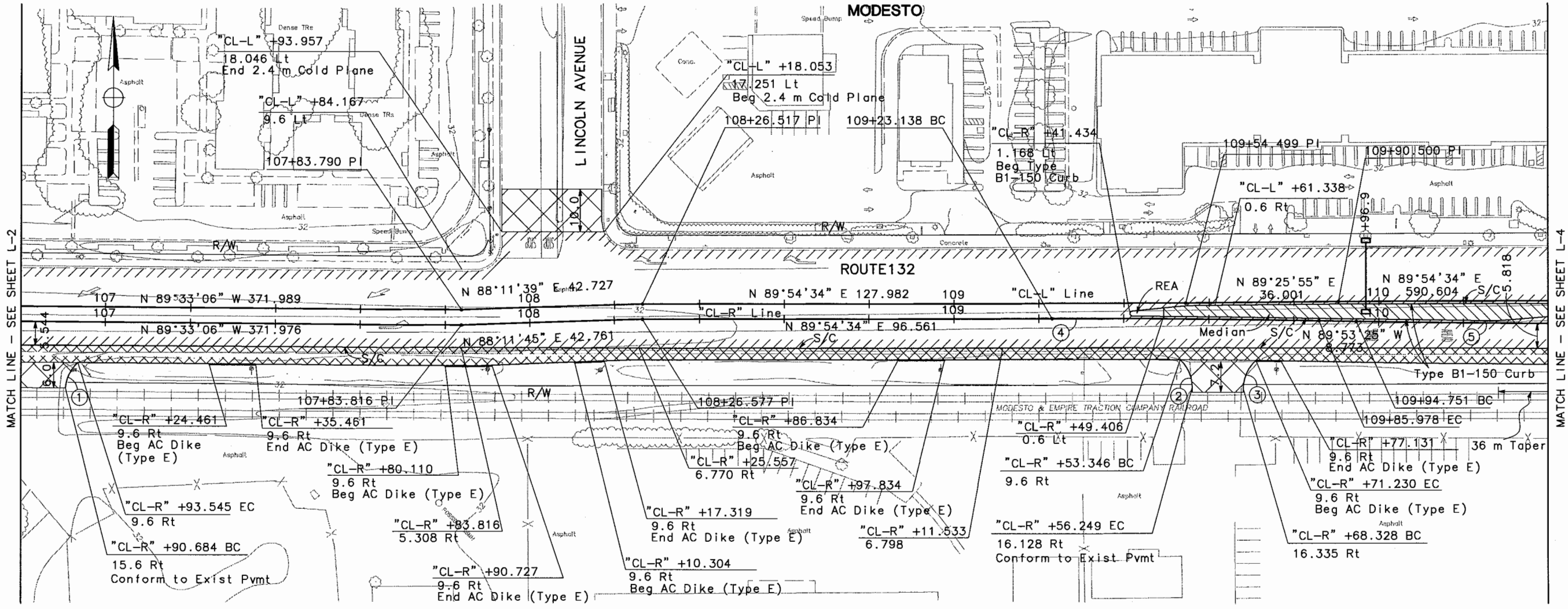
STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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CURVE DATA						
No.	RADIUS	DELTA	TANGENT	LENGTH	N	E
①	9	43°20'38"	3.576	6.808		
②	9	46°44'20"	3.889	7.342		
③	9	48°03'12"	4.012	7.548		
④	3000	1°12'01"	31.421	62.840	623404.724	1961380.727
⑤	3000	1°12'01"	31.421	62.840	629403.429	1961505.686



DESIGN OVERSIGHT  
CHRISTINA HIBBARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans

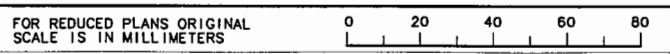
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FOR NOTES, ABBREVIATIONS  
AND LEGEND, SEE SHEET L-1.

FINAL SUBMITTAL  
JULY 7, 2006

LAYOUT  
SCALE 1:500

L-3



USERNAME => \$USER  
DGN FILE => \$REQUEST

CU 06251

EA 3A1101

DATE PLOTTED => \$DATE  
\$TIME  
LAST REVISION  
9-3-04





DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	12	

REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06  
PROFESSIONAL ENGINEER  
CIVIL  
STATE OF CALIFORNIA

PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
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CURVE DATA						
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②	12	36°26'56"	3.951	7.634		
③	3000	1°12'01"	31.421	62.840	629403.429	1961505.686

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT

CHRISTINA HIBBARD

DATE 5/06

REVISOR BY

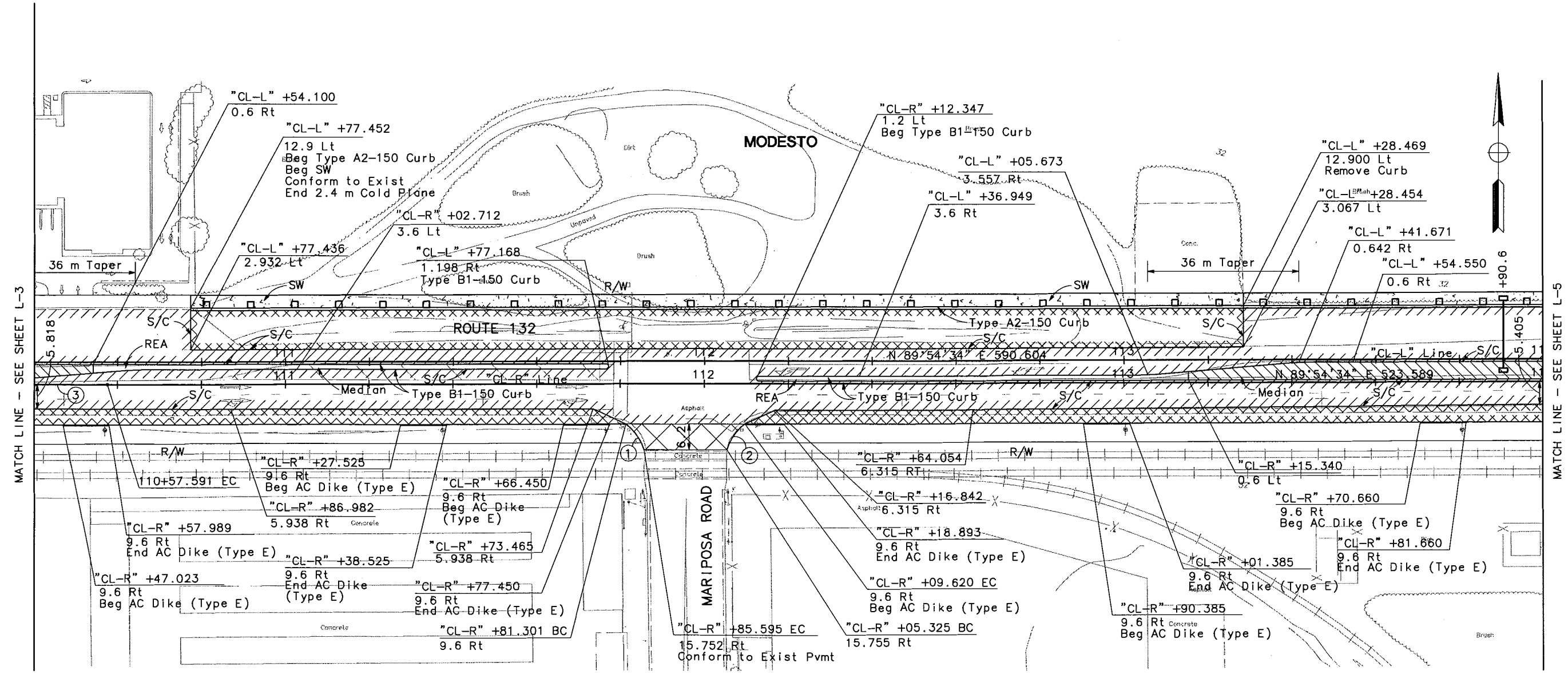
DATE 5/06

REVISOR BY

DATE

REVISOR BY

DATE



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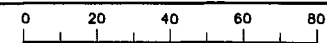
FOR NOTES, ABBREVIATIONS  
AND LEGEND, SEE SHEET L-1.

FINAL SUBMITTAL  
JULY 7, 2006

LAYOUT  
SCALE 1:500

L-4

FOR REDUCED PLANS ORIGINAL  
SCALE IS IN MILLIMETERS



USERNAME => \$USER  
DGN FILE => \$REQUEST

CU 06251

EA 3A1101

DATE PLOTTED => \$DATE  
LAST REVISION  
9-3-04



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	13	



REGISTERED CIVIL ENGINEER  
**Bo Gao**  
 No. C59985  
 Exp. 6/30/06  
 PROFESSIONAL ENGINEER  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
 STANISLAUS  
 COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

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 CONSULTING ENGINEERS, INC.  
 1038 LEIGH AVENUE, SUITE 100  
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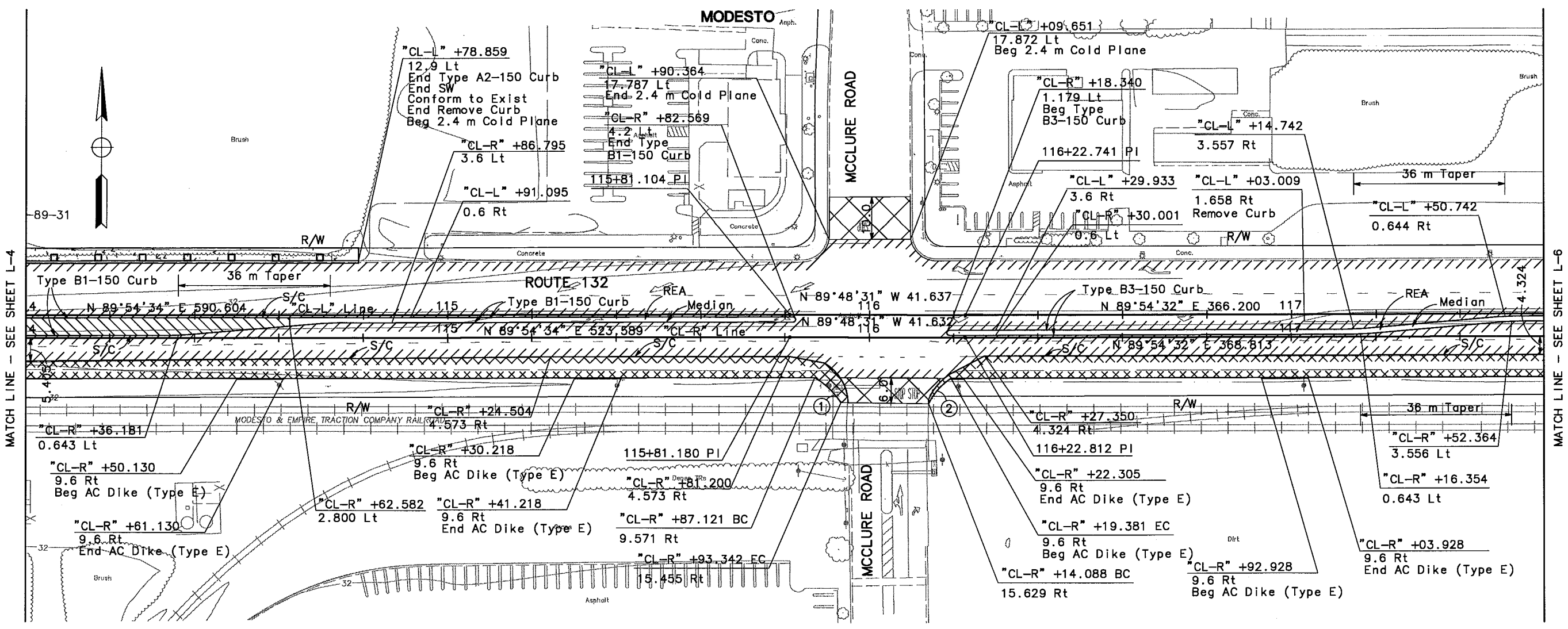
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①	18	27°31'12"	4.408	8.646
②	15	30°58'08"	4.155	8.108

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
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DESIGN OVERSIGHT  
 CHRISTINA HIBBARD

DATE REVISED BY  
 5/06  
 BG 5/06 DATE REVISED

CALCULATED/DESIGNED BY  
 CHECKED BY



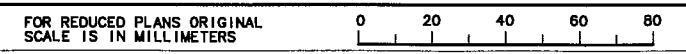
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FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET L-1.

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**LAYOUT**  
 SCALE 1:500

**L-5**



USERNAME => \$USER  
 DGN FILE => \$REQUEST

CU 06251

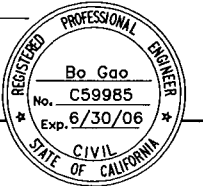
EA 3A1101

DATE PLOTTED => \$DATE  
 \$TIME



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER



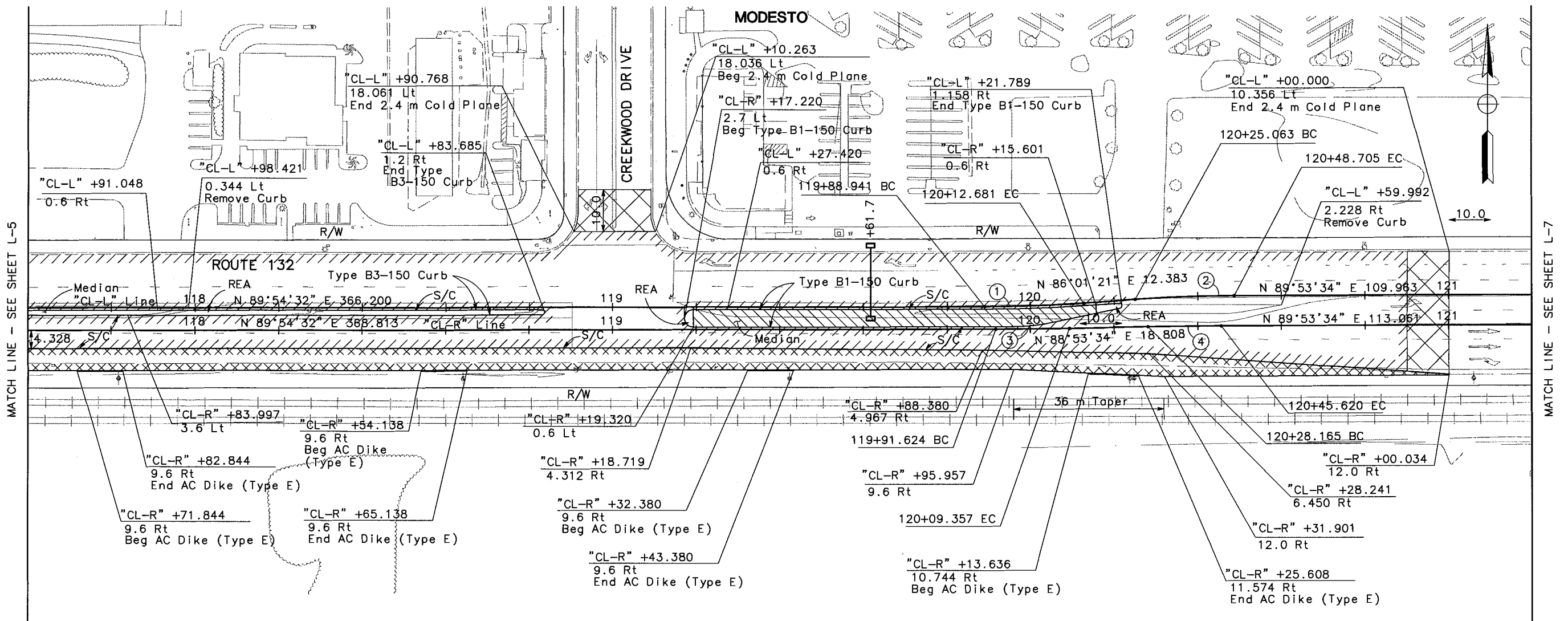
PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
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No.	RADIUS	DELTA	TANGENT	LENGTH	N	E
①	350	3°53'10"	11.874	23.739	626760.103	1962441.282
②	350	3°52'13"	11.825	23.642	626062.648	1962502.189
③	1000	1°00'58"	8.867	17.733	627404.707	1962442.869
④	1000	1°00'00"	8.727	17.454	625405.444	1962500.520



MATCH LINE - SEE SHEET L-5

MATCH LINE - SEE SHEET L-7

DESIGN OVERSIGHT  
CHRISTINA HIBBARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans

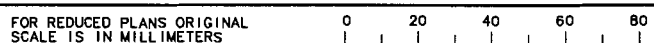
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FOR NOTES, ABBREVIATIONS  
AND LEGEND, SEE SHEET L-1.

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**LAYOUT**  
SCALE 1:500

L-6



USERNAME => \$USER  
DGN FILE => \$REQUEST

CU 06251

EA 3A1101

DATE PLOTTED => \$DATE  
LAST REVISION  
9-3-04



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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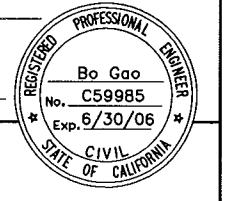
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
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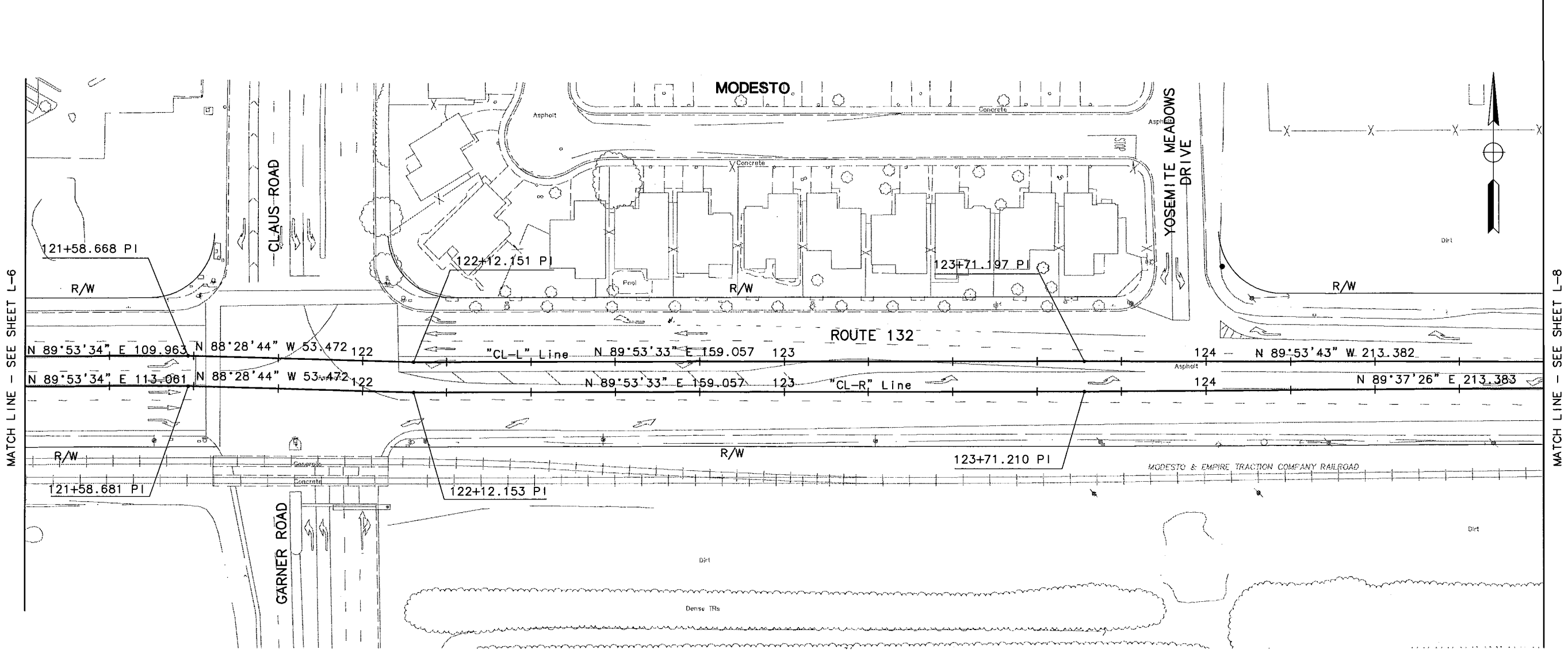


DATE	REVISOR	BY
5/06	BG	5/06
DATE	REVISOR	BY
5/06	BG	5/06

DESIGN OVERSIGHT: CHRISTINA HIBBARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans



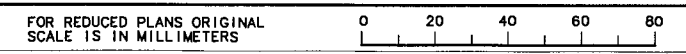
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FOR NOTES, ABBREVIATIONS  
AND LEGEND, SEE SHEET L-1.

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**LAYOUT**  
SCALE 1:500

L-7



USERNAME => \$USER  
DGN FILE => \$REQUEST

CU 06251

EA 3A1101

DATE PLOTTED => \$DATE  
\$TIME  
LAST REVISION  
9-3-04

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN OVERSIGHT  
 CHRISTINA HIBBARD  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE REVISIONS BY  
 5/06  
 5/06



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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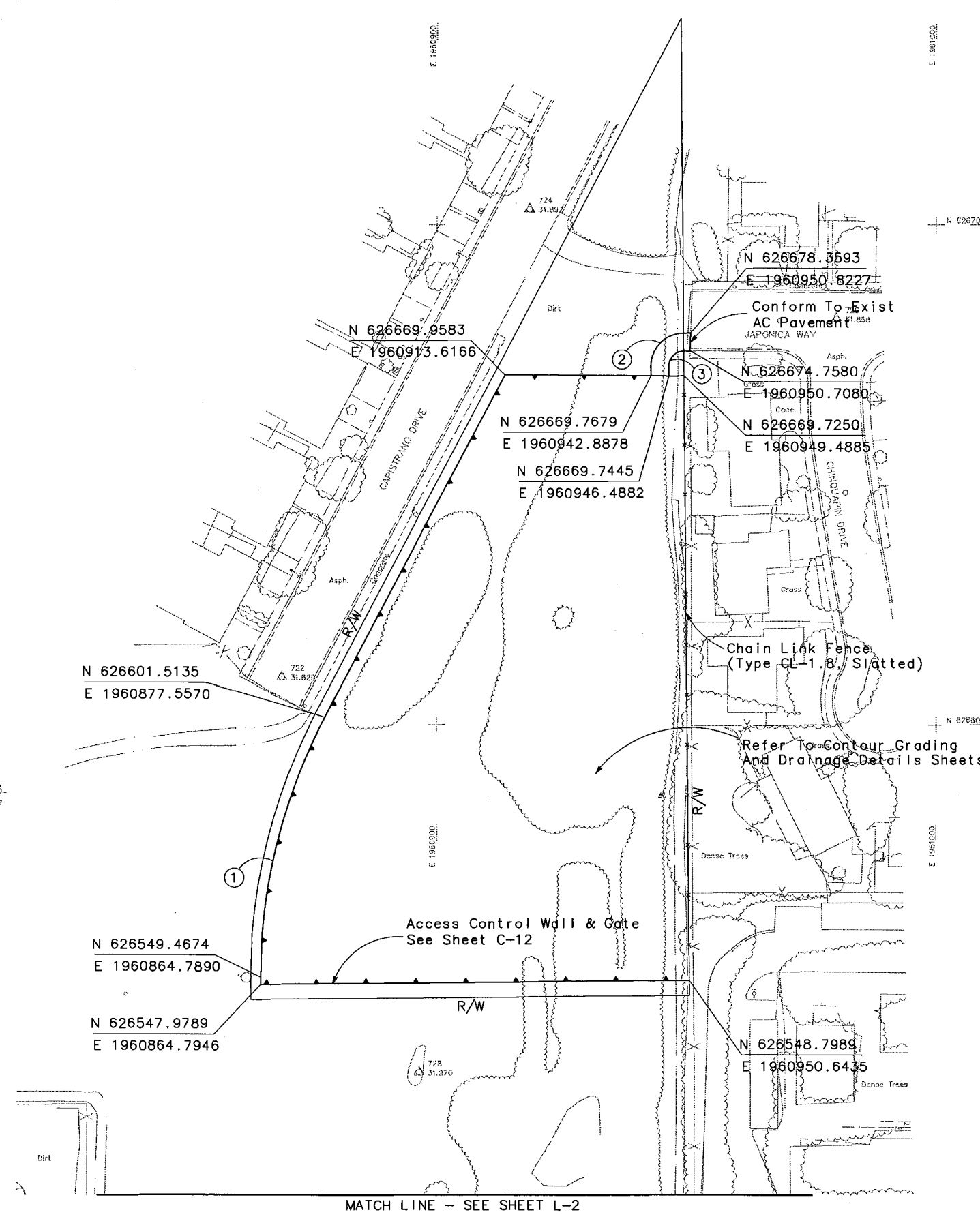
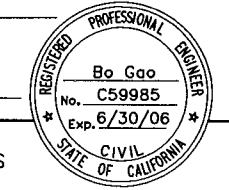
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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 MODESTO, CA 95354

RAJAPPAN & MEYER  
 CONSULTING ENGINEERS, INC.  
 1038 LEIGH AVENUE, SUITE 100  
 SAN JOSE, CALIFORNIA 95126

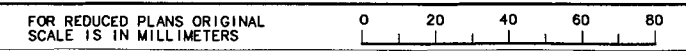
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No.	RADIUS	DELTA	TANGENT	LENGTH
①	110.768	27°59'50"	27.615	54.126
②	6.600	90°00'00"	6.600	10.367
③	3.00	90°00'00"	3.00	4.712

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 AND LEGEND, SEE SHEET L-1.



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**JULY 7, 2006**

**LAYOUT**  
 SCALE 1:500

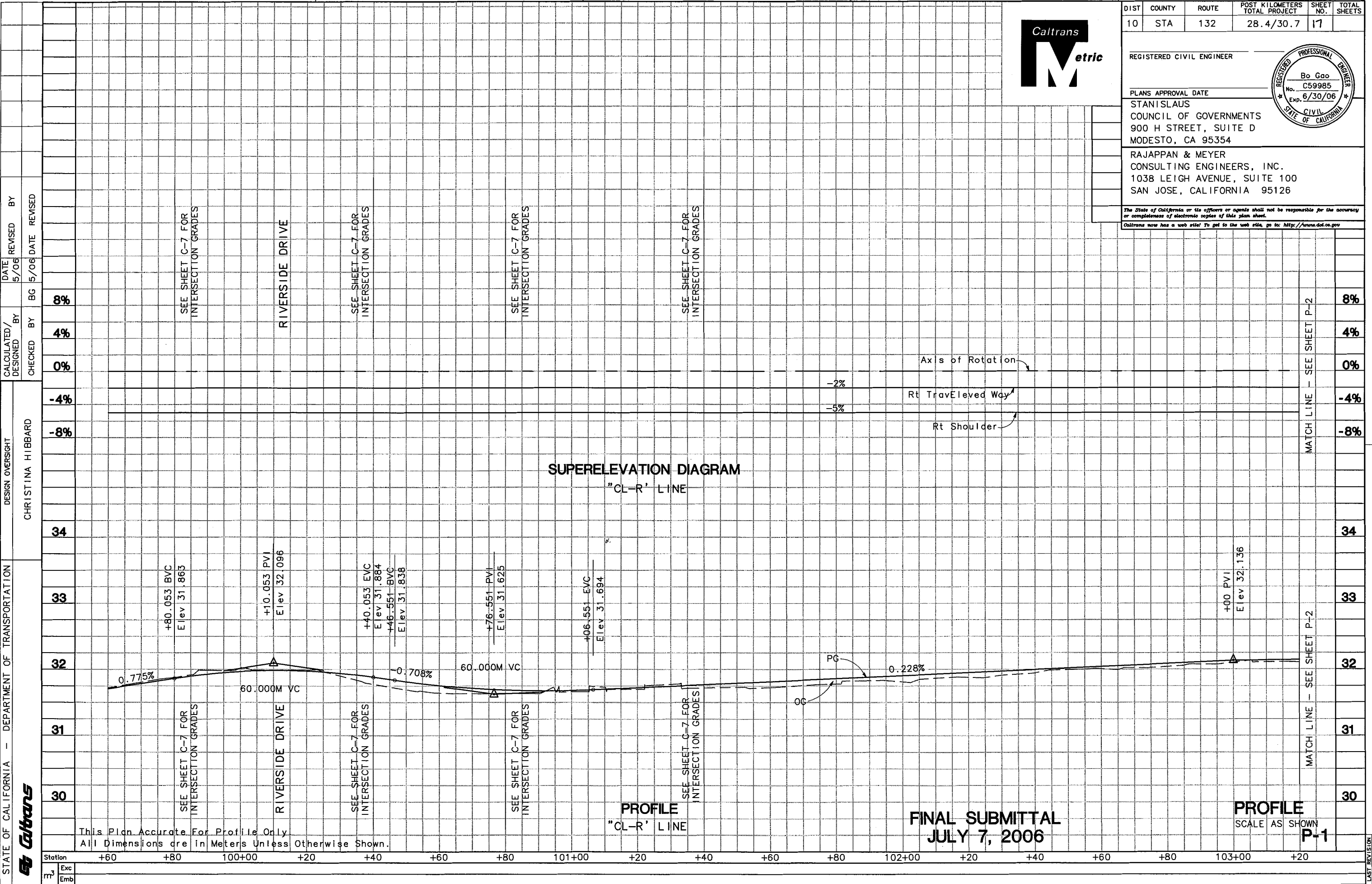
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CU 06251

EA 3A1101

DATE PLOTTED => 8/04  
 \$TIME  
 LAST REVISION  
 9-3-04



DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	17	

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
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 DESIGN OVERSIGHT  
 CHRISTINA HIBBARD  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE 5/06  
 REVISOR BY  
 DATE 5/06  
 REVISION

DATE PLOTTED => \$DATE  
 \$TIME

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

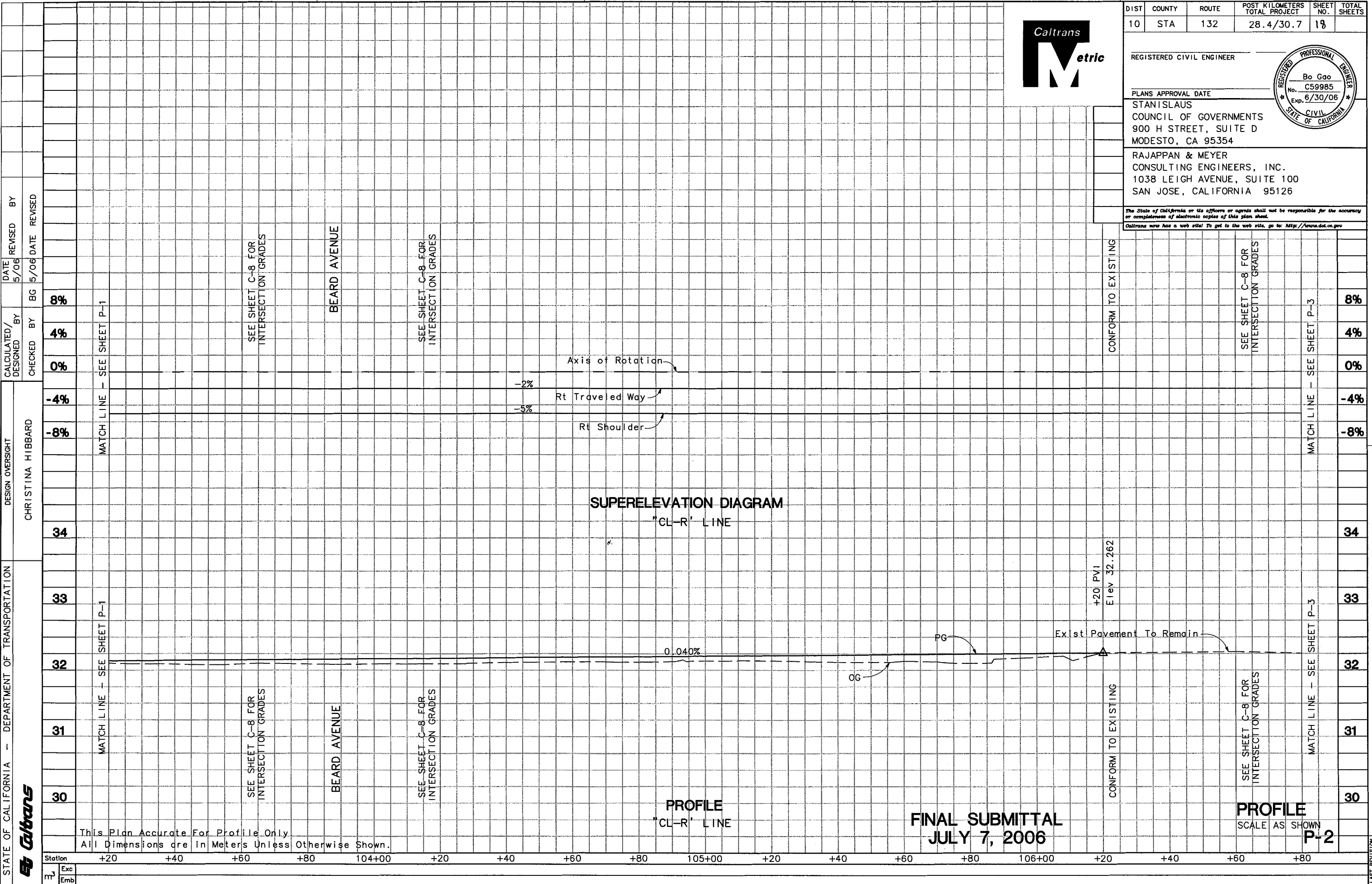
USERNAME => \$USER  
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CU 06251 EA 3A1101

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m<sup>3</sup> Exc  
 Emb





DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER

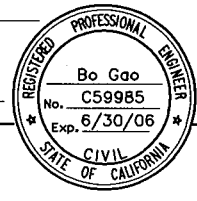
PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT

CHRISTINA HIBBARD

CALCULATED/DESIGNED BY

CHECKED BY

DATE REVISION

DATE REVISION

BY

BY

5/06

BG

5/06

DATE

REVISED

DATE

REVISED

BY

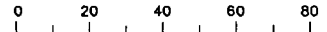
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FINAL SUBMITTAL  
JULY 7, 2006

PROFILE  
SCALE AS SHOWN  
P-2

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

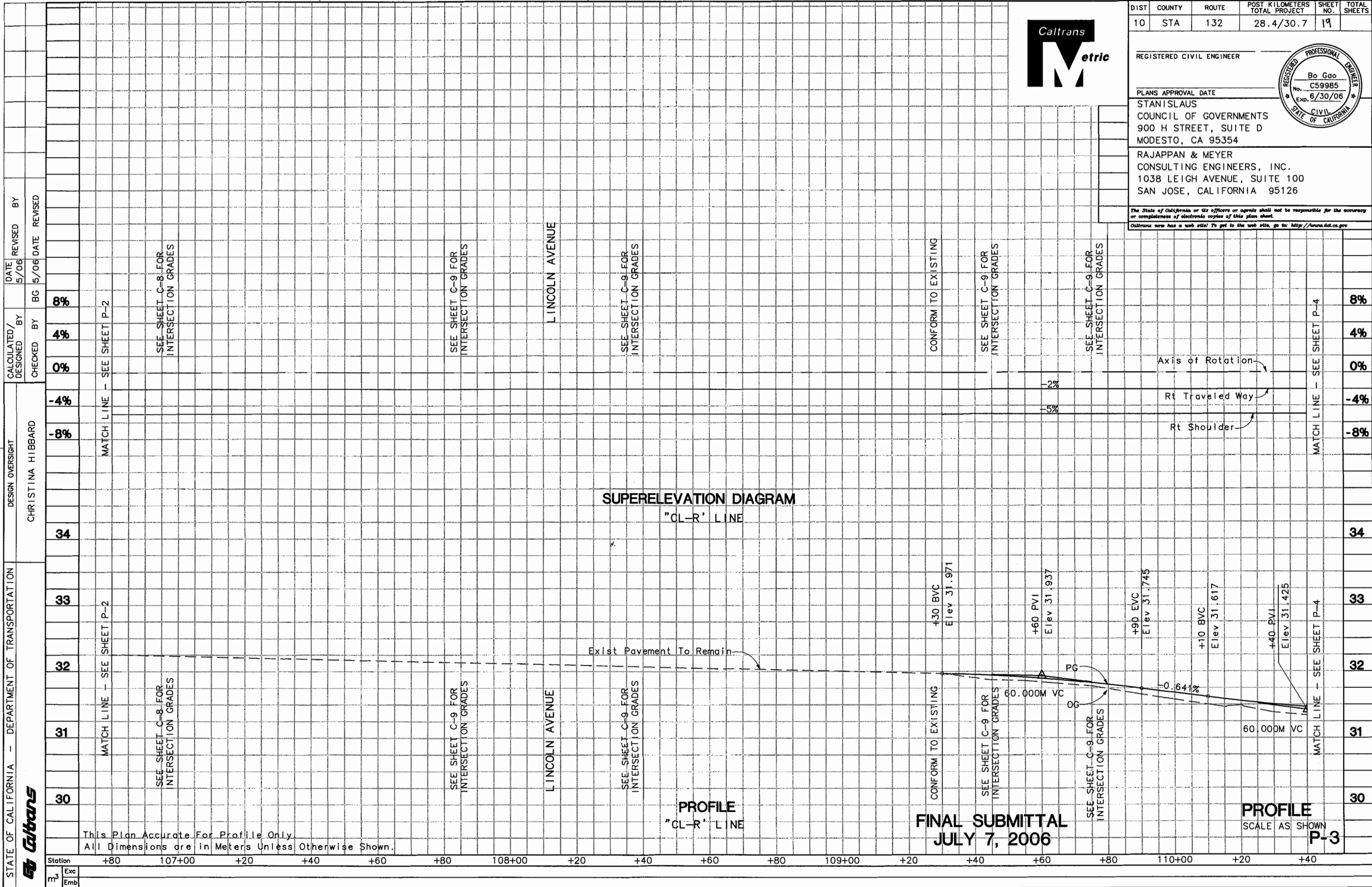


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CU 06251

EA 3A1101

DATE PLOTTED => \$DATE \$TIME



DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	19	

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
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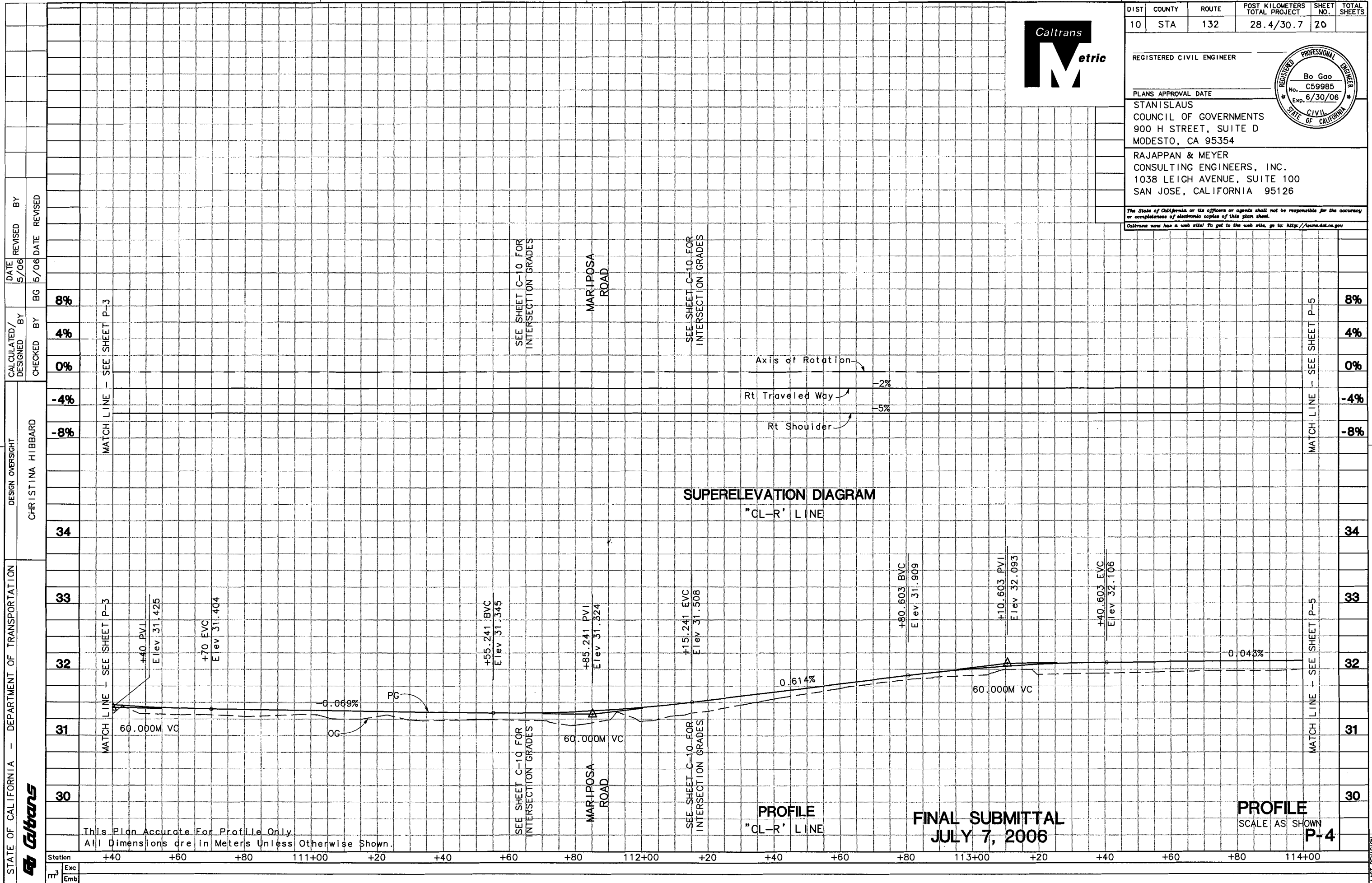
FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

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CU 06251 EA 3A1101

LAST REVISION  
10-25-01  
DATE PLOTTED => \$DATE  
\$TIME



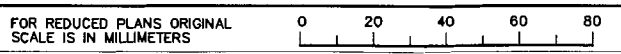
DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	20	
REGISTERED CIVIL ENGINEER					
PLANS APPROVAL DATE					
STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354					
RAJAPPAN & MEYER CONSULTING ENGINEERS, INC. 1038 LEIGH AVENUE, SUITE 100 SAN JOSE, CALIFORNIA 95126					
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN OVERSIGHT	CALCULATED/DESIGNED BY	DATE	REVISOR	BY
Christina Hibbard	Christina Hibbard	BG	5/06		
Station		CHECKED BY	DATE	REVISOR	BY
+40					
+60					
+80					
111+00					
+20					
+40					
+60					
+80					
112+00					
+20					
+40					
+60					
+80					
113+00					
+20					
+40					
+60					
+80					
114+00					

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PROFILE  
 "CL-R" LINE  
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 JULY 7, 2006

PROFILE  
 SCALE AS SHOWN  
 P-4



USERNAME => \$USER  
 DGN FILE => \$REQUEST

CU 06251

EA 3A1101

DATE PLOTTED => \$DATE  
 10-25-01





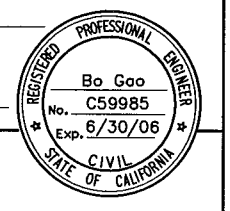
DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	21	

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

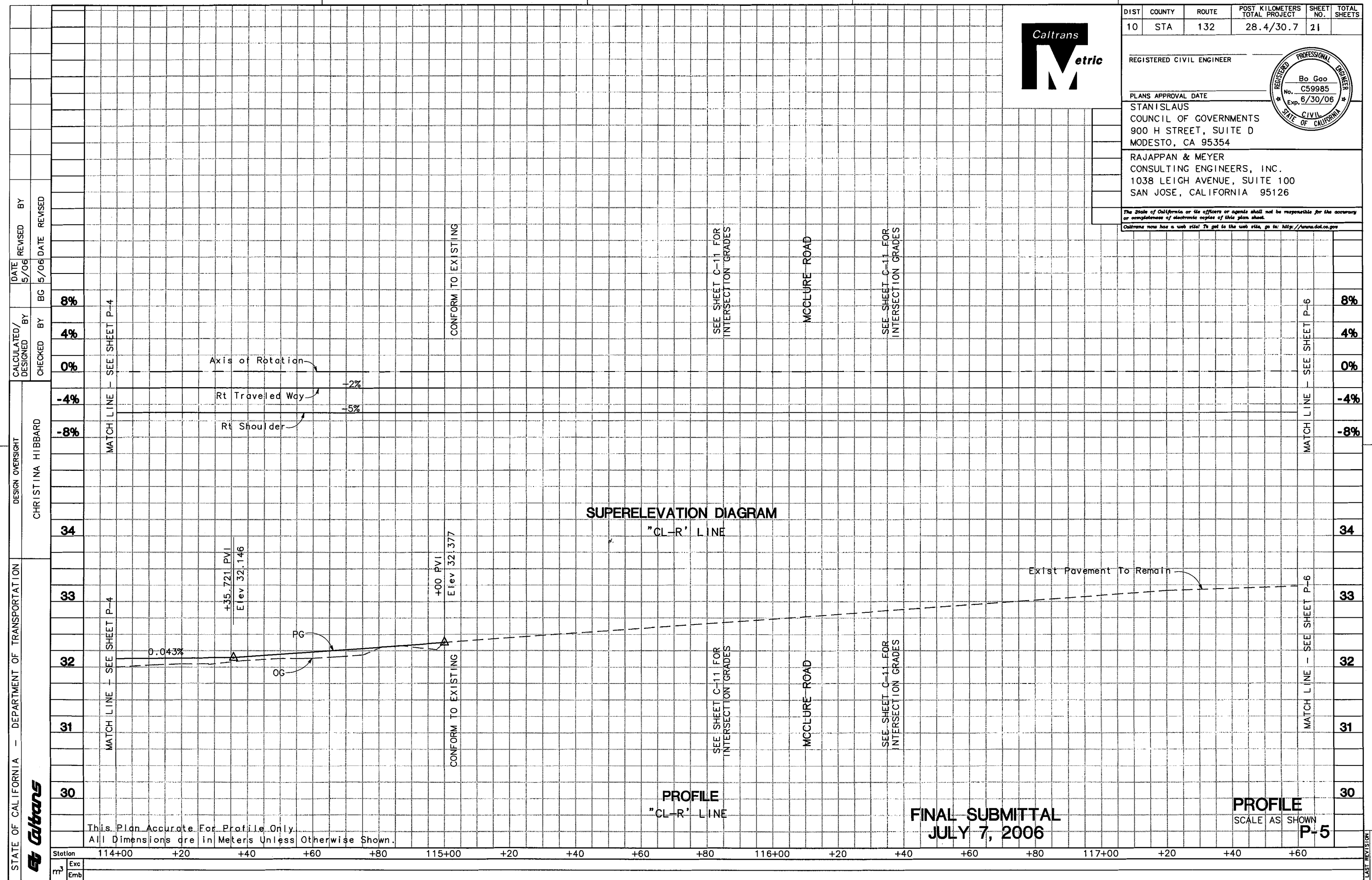
STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

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1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126



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DATE	REVISOR	BY
5/06	BG	5/06
	DATE	REVISED

CALCULATED/DESIGNED	BY
8%	
4%	
0%	
-4%	
-8%	

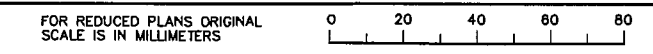
DESIGN OVERSIGHT	BY
CHRISTINA HIBBARD	

Station	114+00	+20	+40	+60	+80	115+00	+20	+40	+60	+80	116+00	+20	+40	+60	+80	117+00	+20	+40	+60	
Exc																				
Emb																				

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**FINAL SUBMITTAL**  
JULY 7, 2006

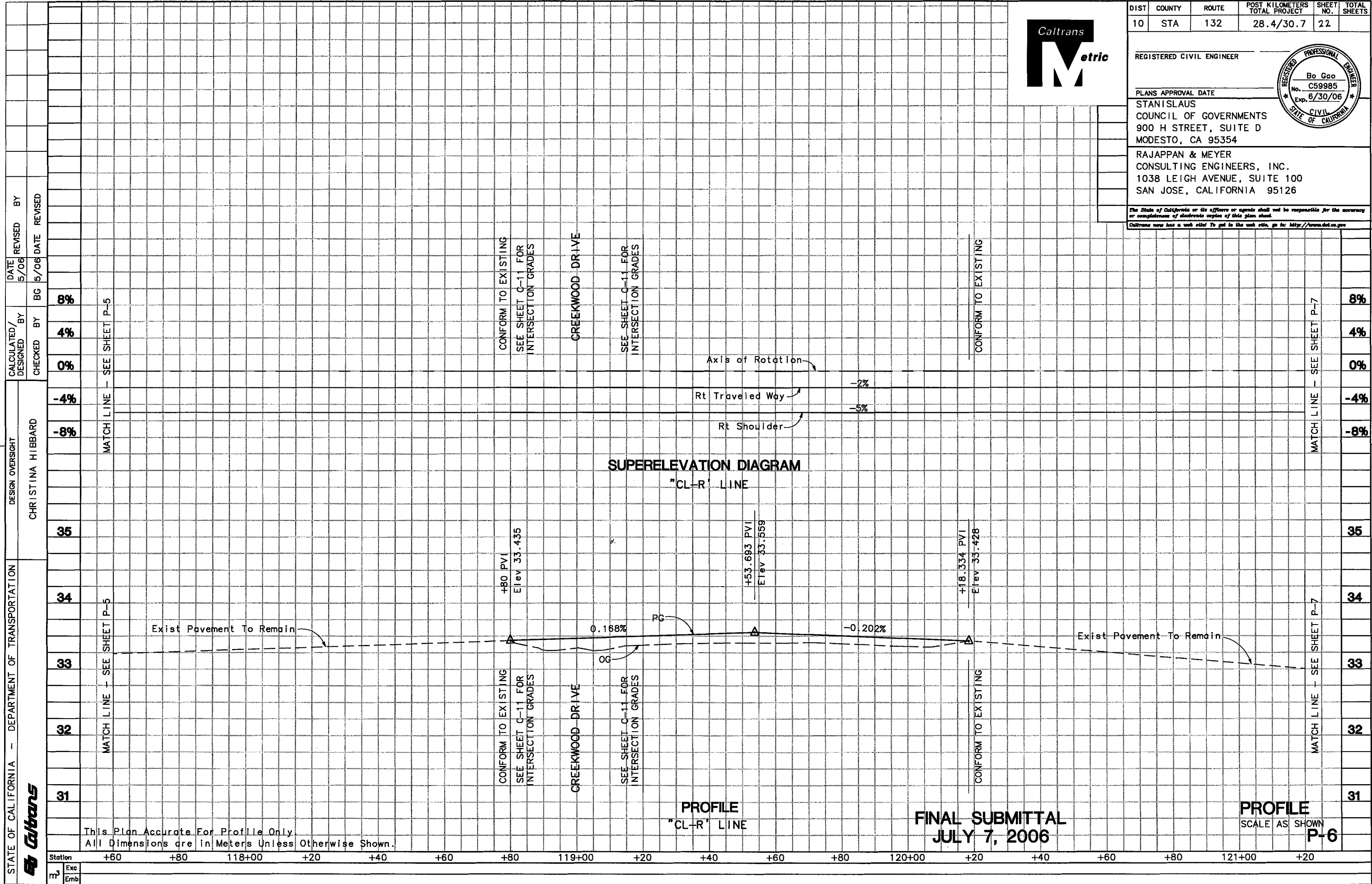
**PROFILE**  
SCALE AS SHOWN  
P-5



USERNAME => USER  
DGN FILE => REQUEST

CU 06251 EA 3A1101

DATE PLOTTED => \$DATE  
\$TIME  
10-25-01



DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	22	

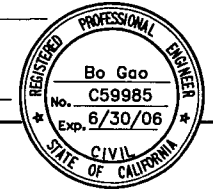
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
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5/06	BG

DATE REVISION	BY
5/06	BG

DESIGN OVERSIGHT	BY
CHRISTINA HIBBARD	

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	23	



REGISTERED CIVIL ENGINEER  
**Bo Gao**  
 No. C59985  
 Exp. 6/30/06  
 PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA

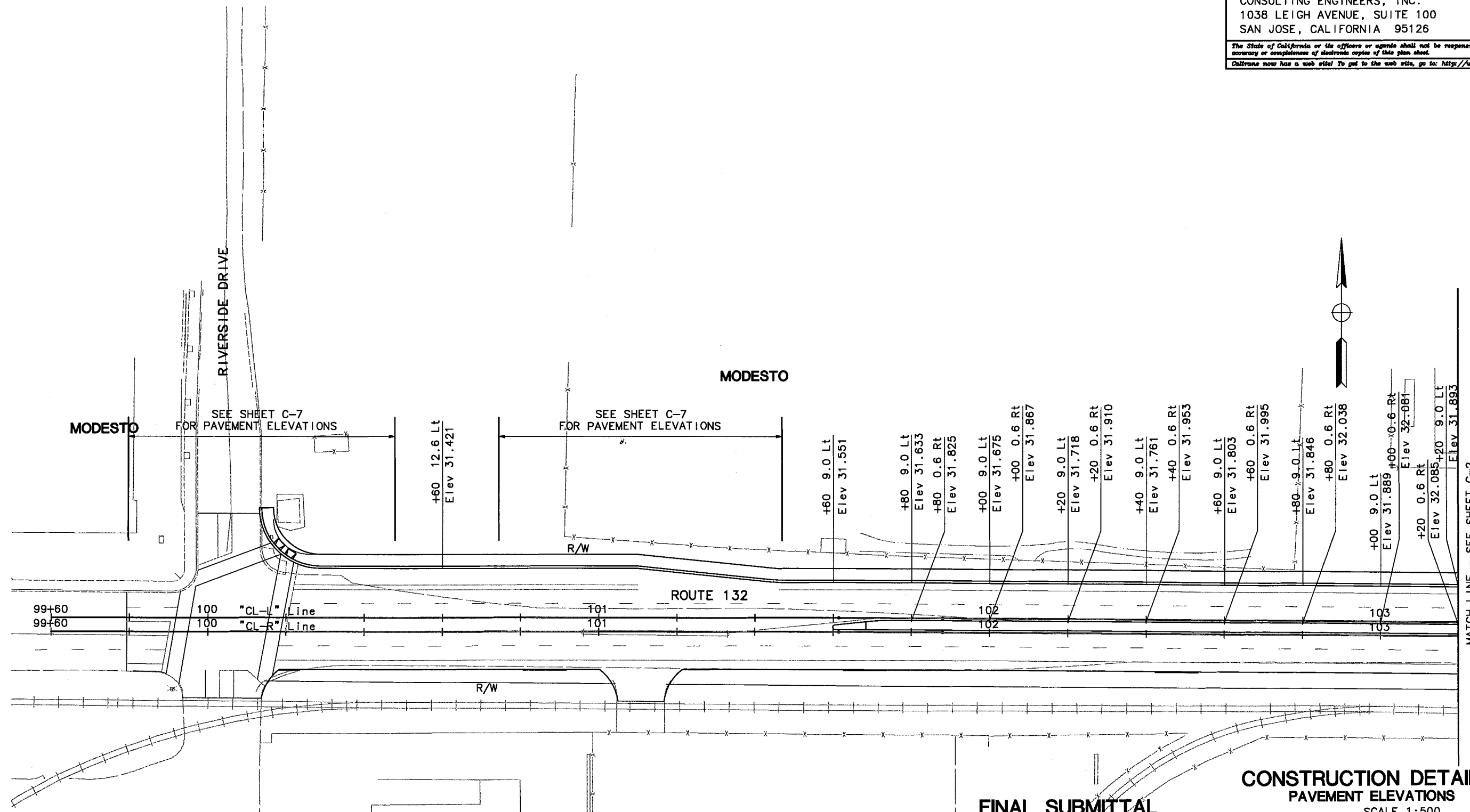
PLANS APPROVAL DATE  
 STANISLAUS  
 COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

RAJAPPAN & MEYER  
 CONSULTING ENGINEERS, INC.  
 1038 LEIGH AVENUE, SUITE 100  
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NOTES:  
 1. FOR BASIN ELEVATION, SEE CONTOUR GRADING PLAN G-1.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN OVERSIGHT	CALCULATED/DESIGNED BY	REVISOR	DATE	BY
Christina Hibbard	Christina Hibbard	BG	5/06	5/06	5/06
		CHECKED BY	DATE	REVISOR	BY

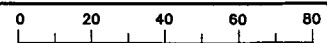


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FINAL SUBMITTAL  
 JULY 7, 2006

CONSTRUCTION DETAILS  
 PAVEMENT ELEVATIONS  
 SCALE 1:500  
 C-1

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USERNAME => USER  
 DGN FILE => REQUEST

CU 06251

EA 3A1101

DATE PLOTTED => DATE  
 9-3-04  
 LAST REVISION



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	24	

REGISTERED CIVIL ENGINEER  
 Bo Gao  
 No. C59985  
 Exp. 6/30/06  
 PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
 STANISLAUS  
 COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

RAJAPPAN & MEYER  
 CONSULTING ENGINEERS, INC.  
 1038 LEIGH AVENUE, SUITE 100  
 SAN JOSE, CALIFORNIA 95126

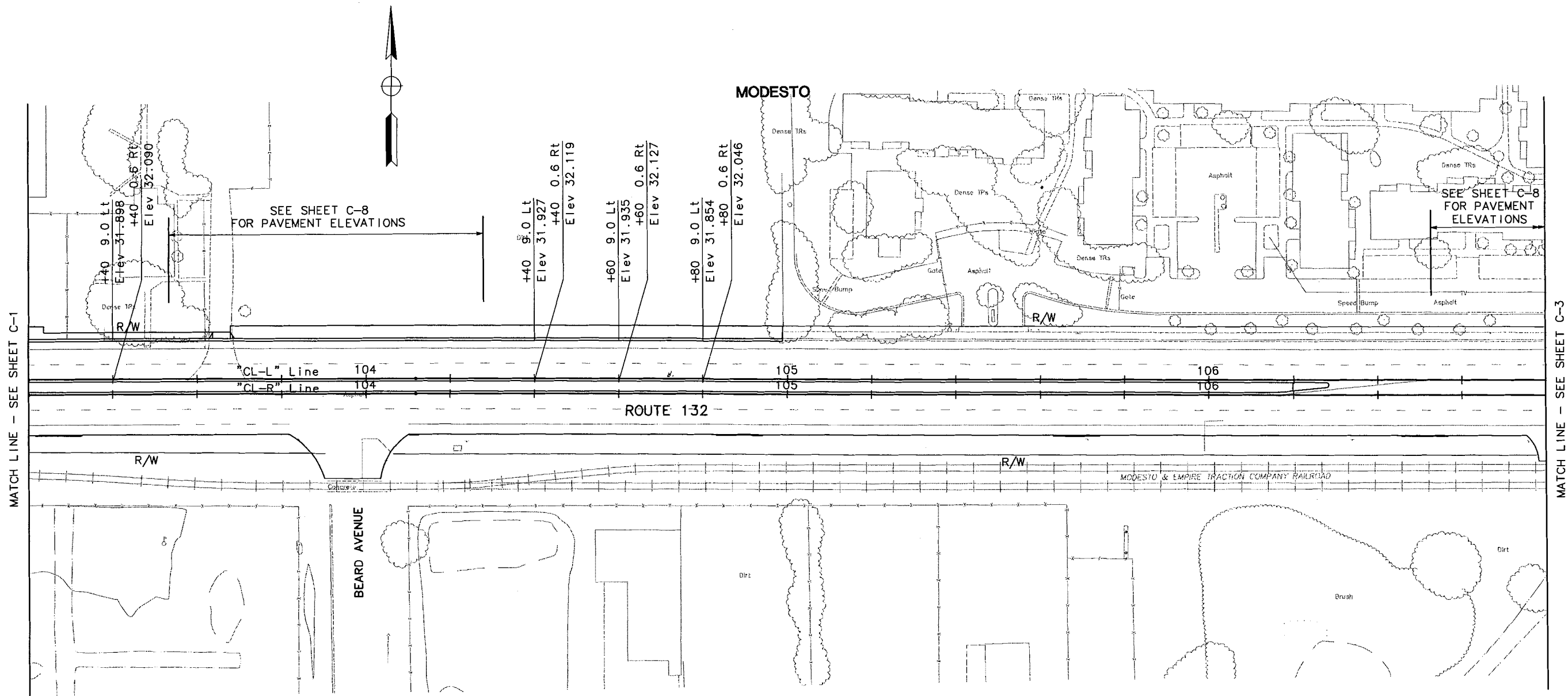
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DESIGN OVERSIGHT: CHRISTINA HIBBARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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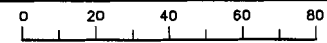
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET C-1.

FINAL SUBMITTAL  
 JULY 7, 2006

CONSTRUCTION DETAILS  
 PAVEMENT ELEVATIONS  
 SCALE 1:500

C-2

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EA 3A1101

DATE PLOTTED => \$DATE  
 9-3-04

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
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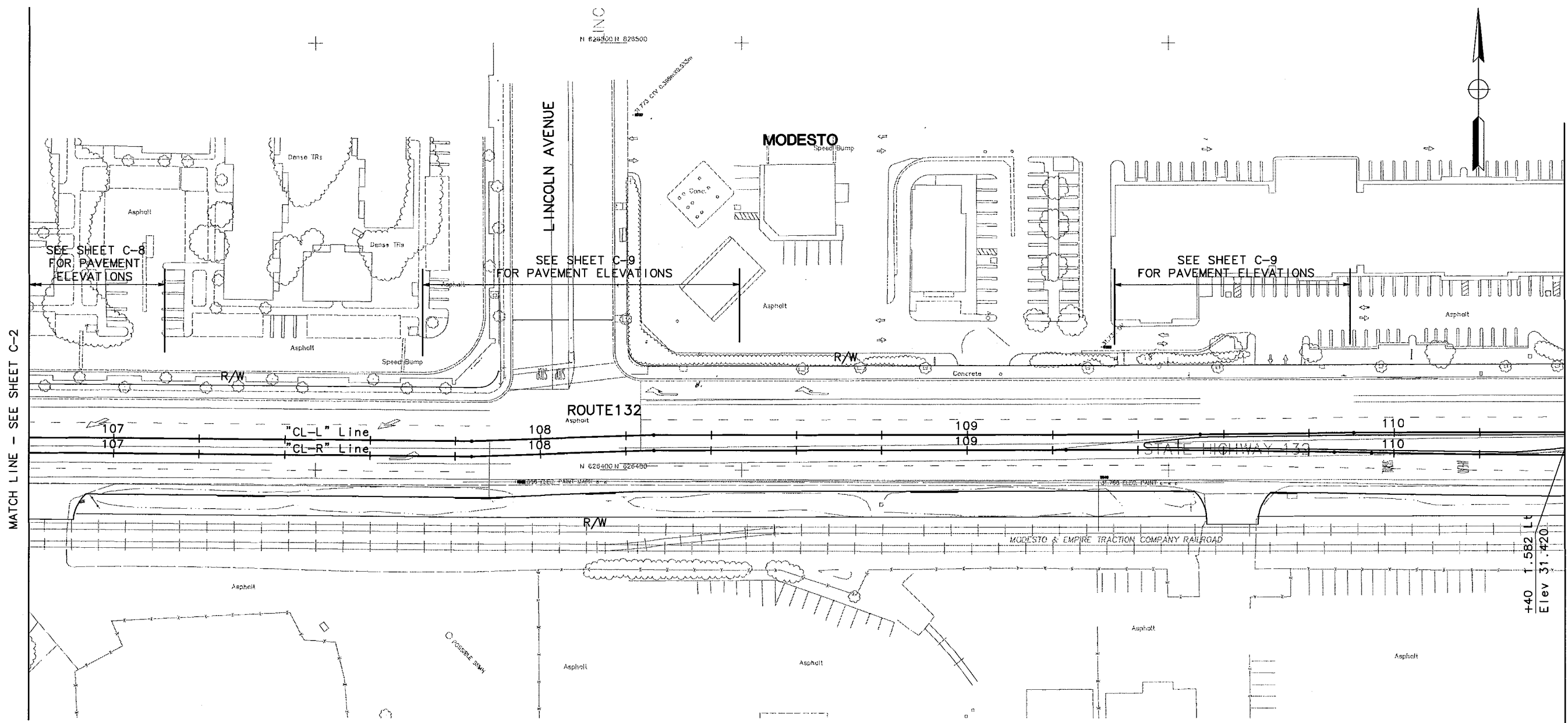
DATE	REVISOR	BY	DATE	REVISOR	BY
5/06	BG	5/06			

DESIGN OVERSIGHT: CHRISTINA HIBBARD

DEPARTMENT OF TRANSPORTATION

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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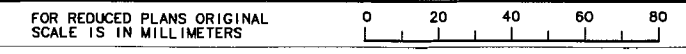
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AND LEGEND, SEE SHEET C-1.

FINAL SUBMITTAL  
JULY 7, 2006

CONSTRUCTION DETAILS  
PAVEMENT ELEVATIONS  
SCALE 1:500

C-3



USERNAME => USER  
DCN FILE => \$REQUEST

CU 06251 EA 3A1101

DATE PLOTTED => \$DATE \$TIME

9-3-04



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CHRISTINA HIBBARD

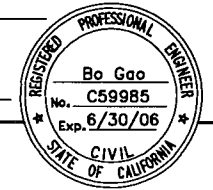
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CHECKED BY

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5/06 BG 5/06 DATE REVISOR



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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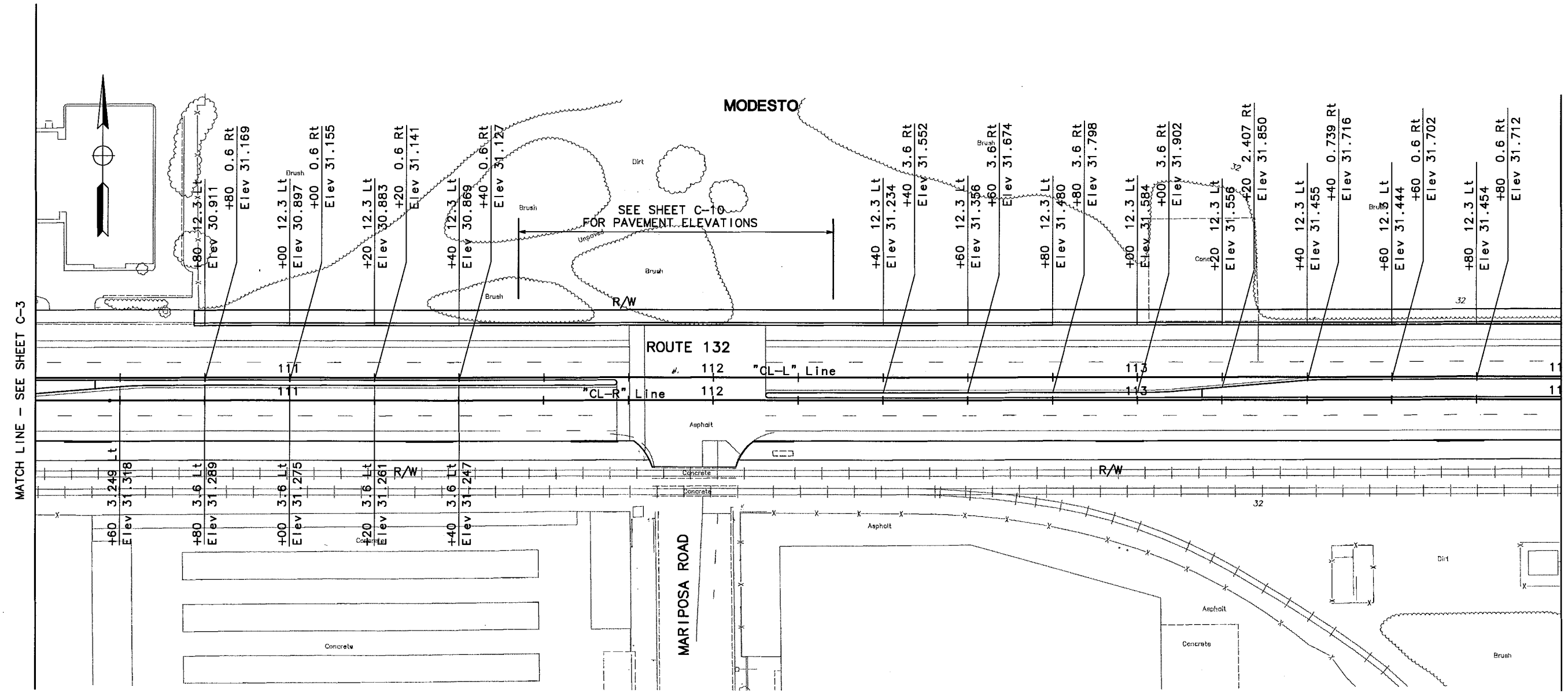
REGISTERED CIVIL ENGINEER



PLANS APPROVAL DATE  
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COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

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MATCH LINE - SEE SHEET C-3

MATCH LINE - SEE SHEET C-5

SEE SHEET C-10 FOR PAVEMENT ELEVATIONS

ROUTE 132

"CL-R" Line 112  
"CL-L" Line 112

MARIPOSA ROAD

**CONSTRUCTION DETAILS  
PAVEMENT ELEVATIONS**

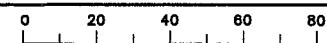
SCALE 1:500

**C-4**

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AND LEGEND, SEE SHEET C-1.

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SCALE IS IN MILLIMETERS



USERNAME => \$USER  
DGN FILE => \$REQUEST

CU 06251

EA 3A1101

DATE PLOTTED -> \$DATE  
\$TIME  
LAST REVISION  
9-3-04

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
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 CHECKED BY: [ ]  
 DATE: 5/06  
 REVISOR: [ ]  
 DATE: [ ]



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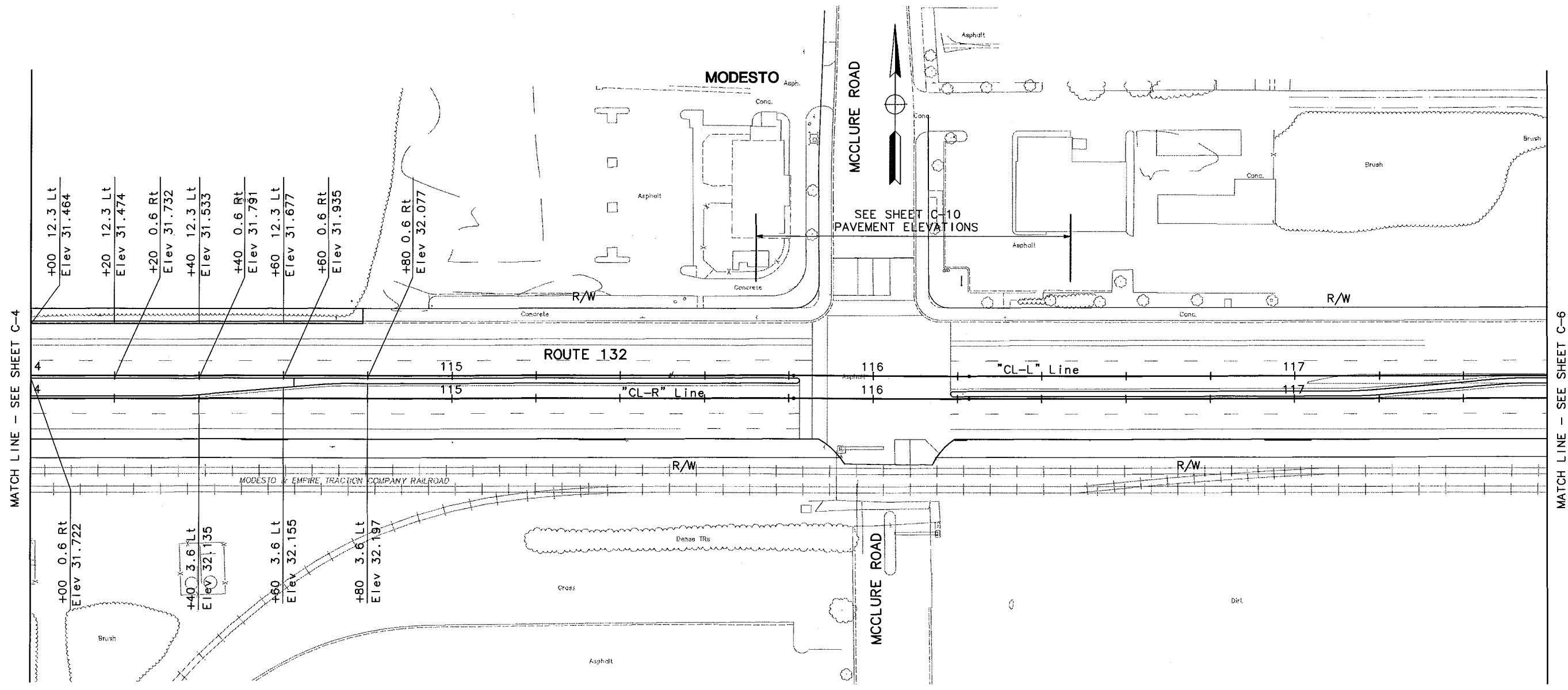
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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 900 H STREET, SUITE D  
 MODESTO, CA 95354

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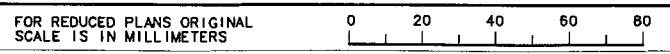


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**JULY 7, 2006**

**CONSTRUCTION DETAILS**  
**PAVEMENT ELEVATIONS**  
 SCALE 1:500  
**C-5**



USERNAME => \$USER  
 DGN FILE => \$REQUEST


CU 06251

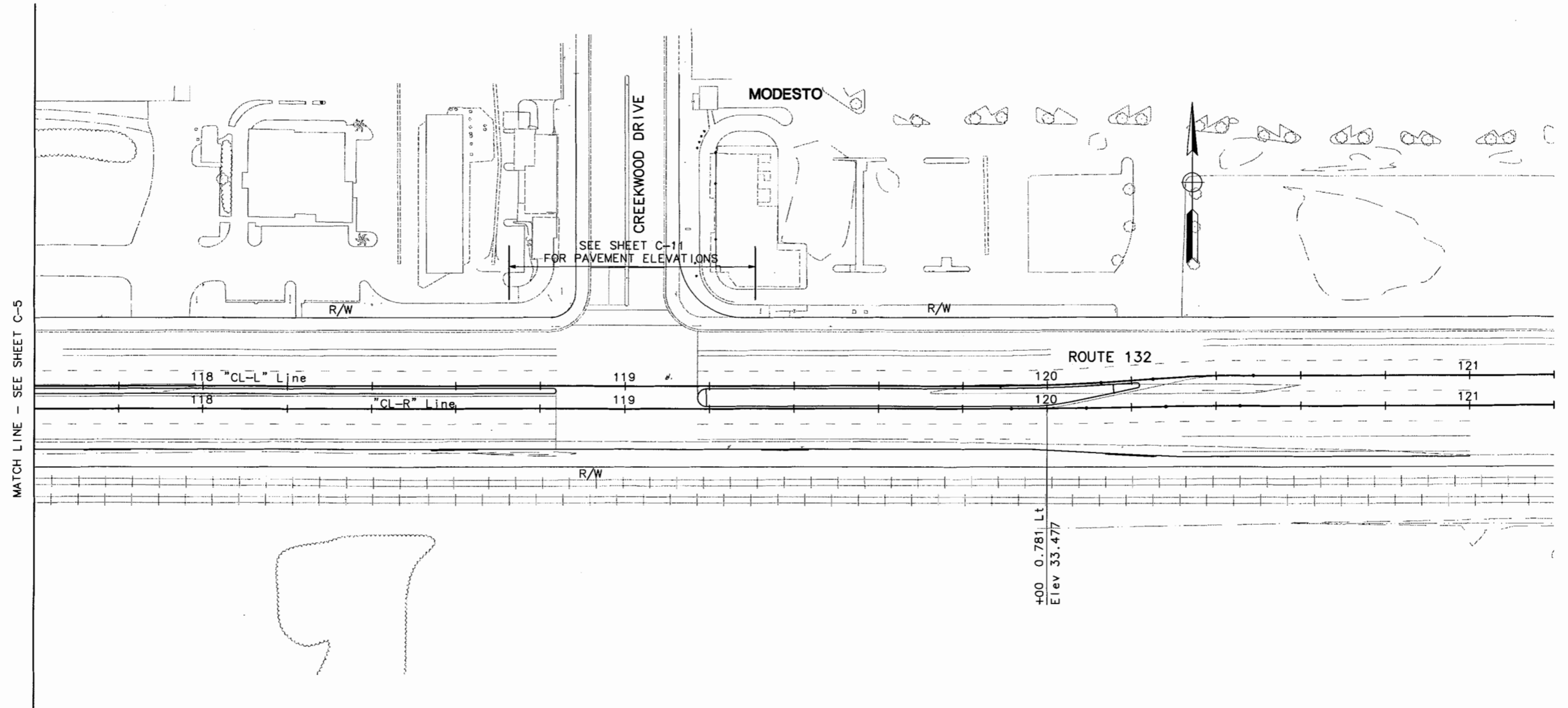
EA 3A1101

DATE PLOTTED => \$DATE  
 \$TIME  
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	CHRISTINA HIBBARD	CHECKED BY	DATE REVISED
Caltrans			



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	28	
REGISTERED CIVIL ENGINEER					
					
PLANS APPROVAL DATE					
STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354					
RAJAPPAN & MEYER CONSULTING ENGINEERS, INC. 1038 LEIGH AVENUE, SUITE 100 SAN JOSE, CALIFORNIA 95126					
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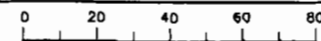
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 AND LEGEND, SEE SHEET C-1.

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**CONSTRUCTION DETAILS**  
**PAVEMENT ELEVATIONS**  
 SCALE 1:500  
**C-6**

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USERNAME => \$USER  
 DGN FILE => \$REQUEST

CU 06251

EA 3A1101

DATE PLOTTED => \$DATE  
 \$TIME  
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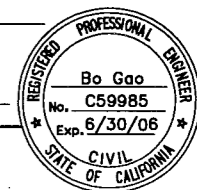
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REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

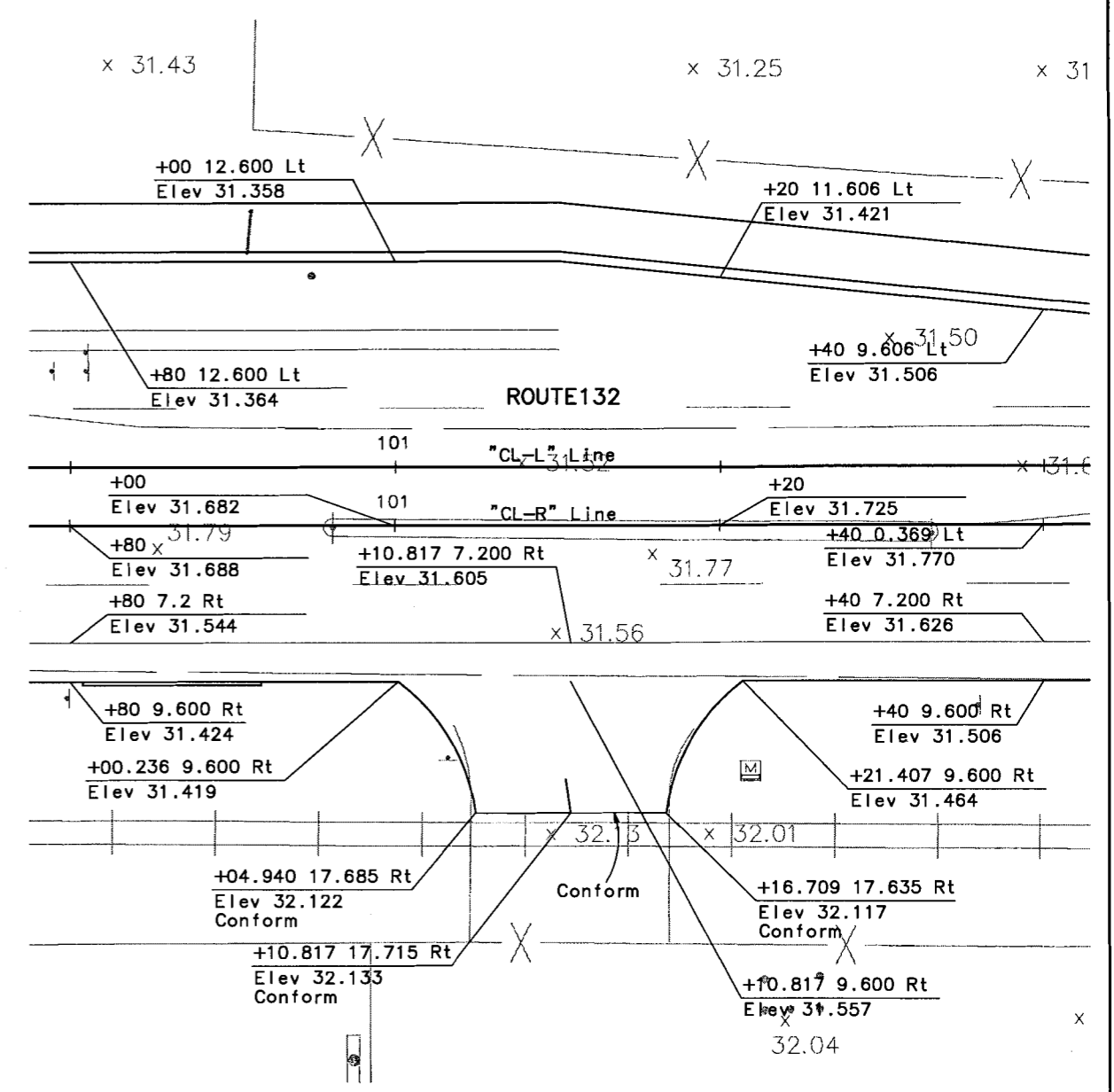
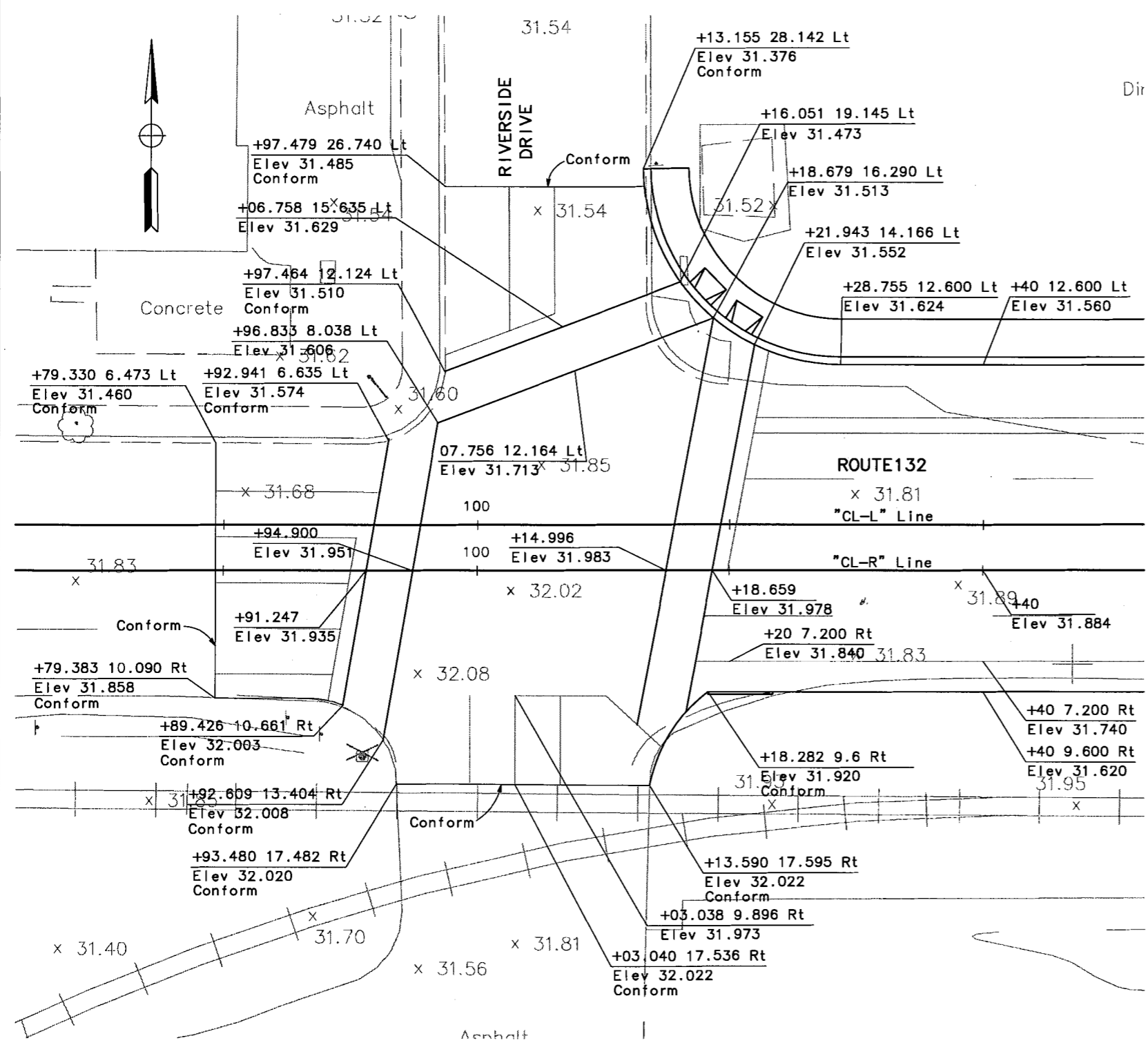
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 CHECKED BY: [ ]  
 DATE REVISED BY: [ ]  
 DATE REVISED BY: [ ]

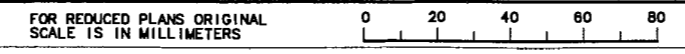


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**CONSTRUCTION DETAILS**  
**PAVEMENT ELEVATIONS**  
SCALE 1:200  
**C-7**



USERNAME => USER  
DGN FILE => REQUEST

CU 06251 EA 3A1101

DATE PLOTTED => \$TIME  
9-3-04



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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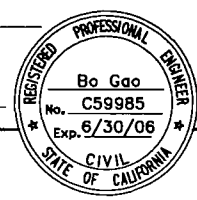
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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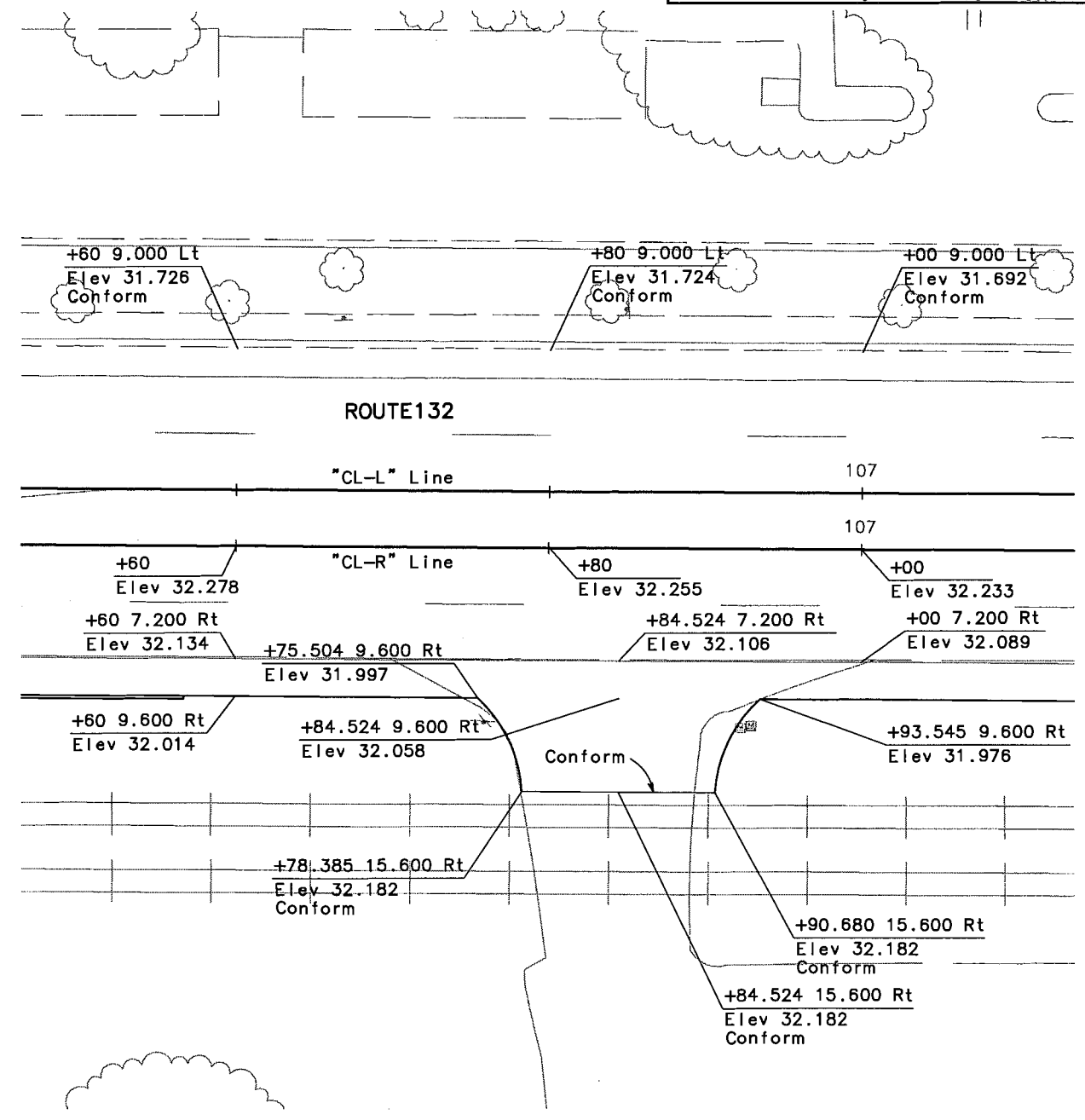
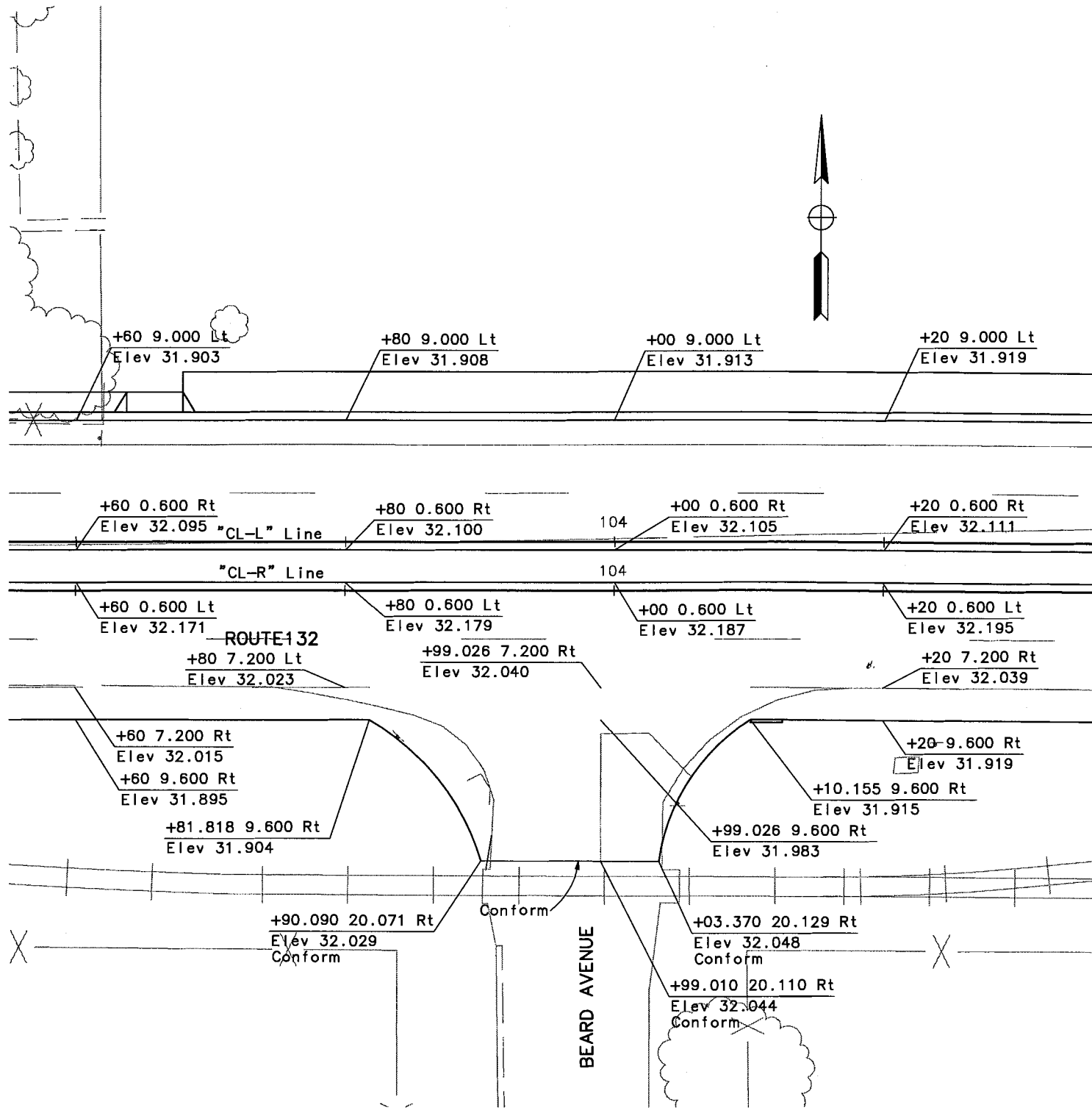
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DATE REVISIONS BY

DATE	REVISIONS BY
5/06	BG

CHECKED BY: BG

DATE REVISIONS



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0 20 40 60 80

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JULY 7, 2006

CONSTRUCTION DETAILS  
PAVEMENT ELEVATIONS  
SCALE 1:200  
C-8

USERNAME => BUSER  
DGN FILE => REQUEST

CU 06251 EA 3A1101

DATE PLOTTED => 8/1/06  
LAST REVISION 9-3-04

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 5/06  
 DATE REVISIED BY  
 5/06



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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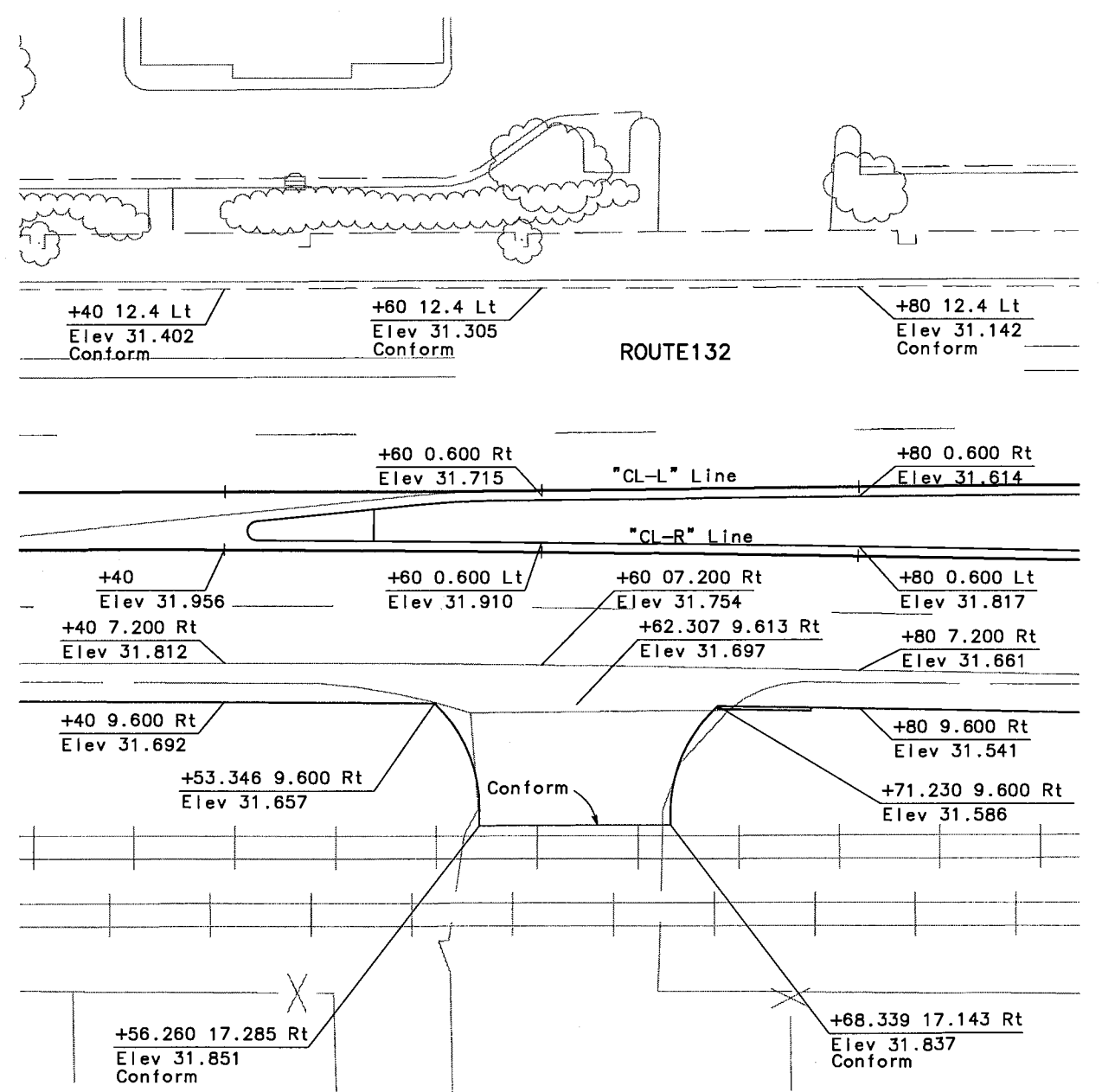
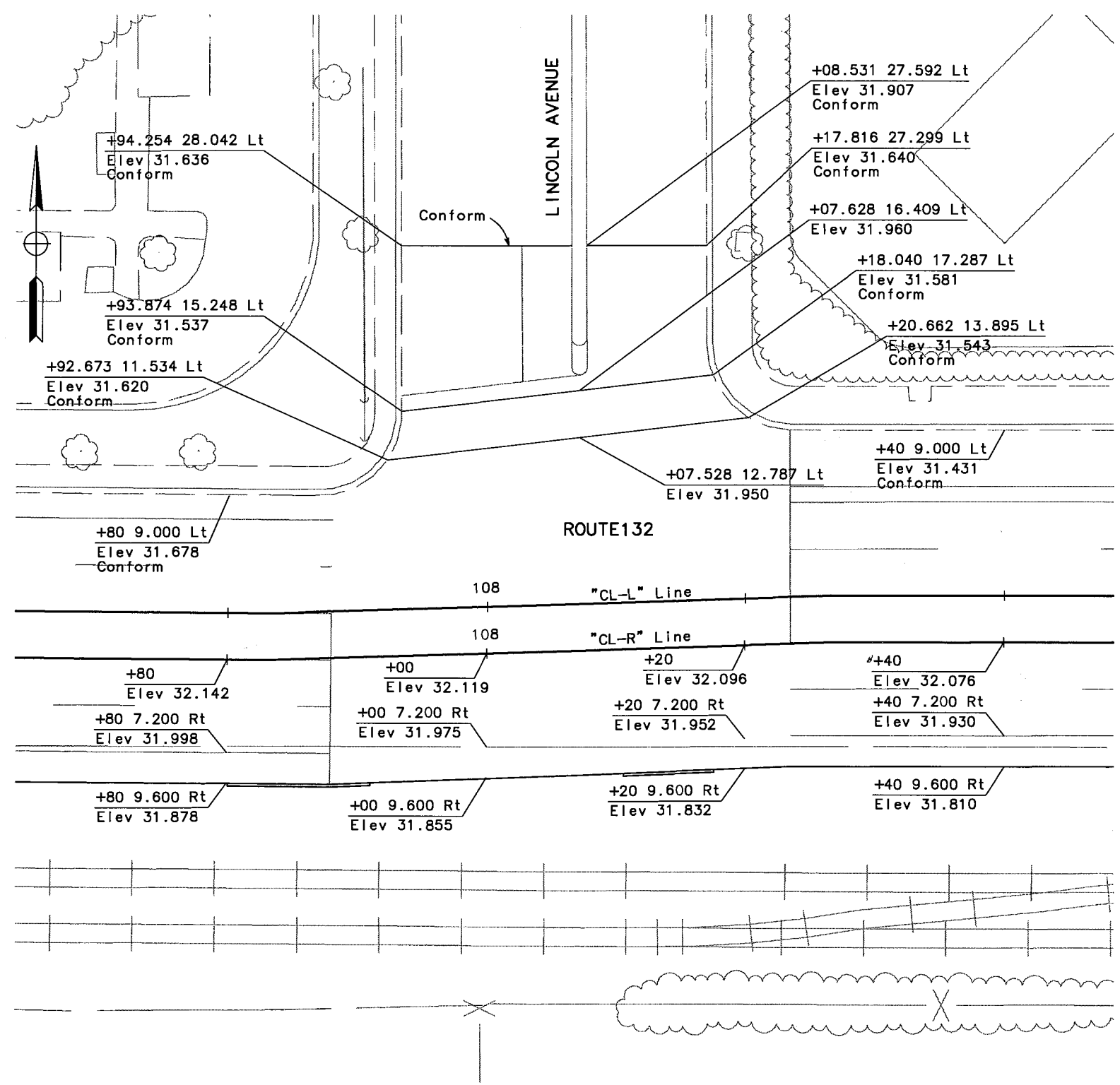
REGISTERED CIVIL ENGINEER

**Bo Goo**  
 No. C59985  
 Exp. 6/30/06  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
 STANISLAUS  
 COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

RAJAPPAN & MEYER  
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**CONSTRUCTION DETAILS**  
 PAVEMENT ELEVATIONS  
 SCALE 1:200  
**C-9**

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 AND LEGEND, SEE SHEET C-1.

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**JULY 7, 2006**

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USERNAME => BUSER  
 DGN FILE => REQUEST

CU 06251 EA 3A1101

DATE PLOTTED => 04  
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	32	



REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06

PLANS APPROVAL DATE  
STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
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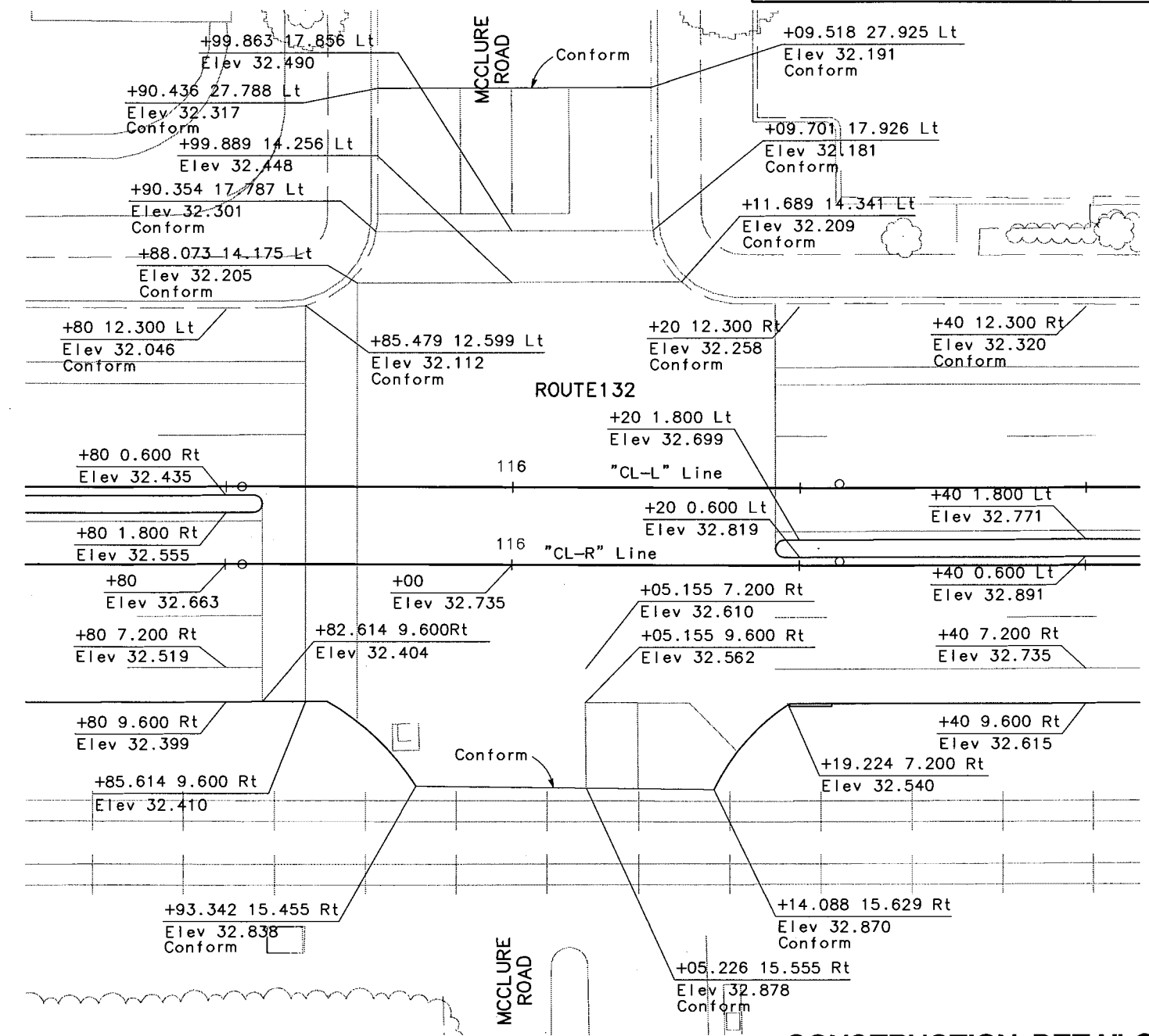
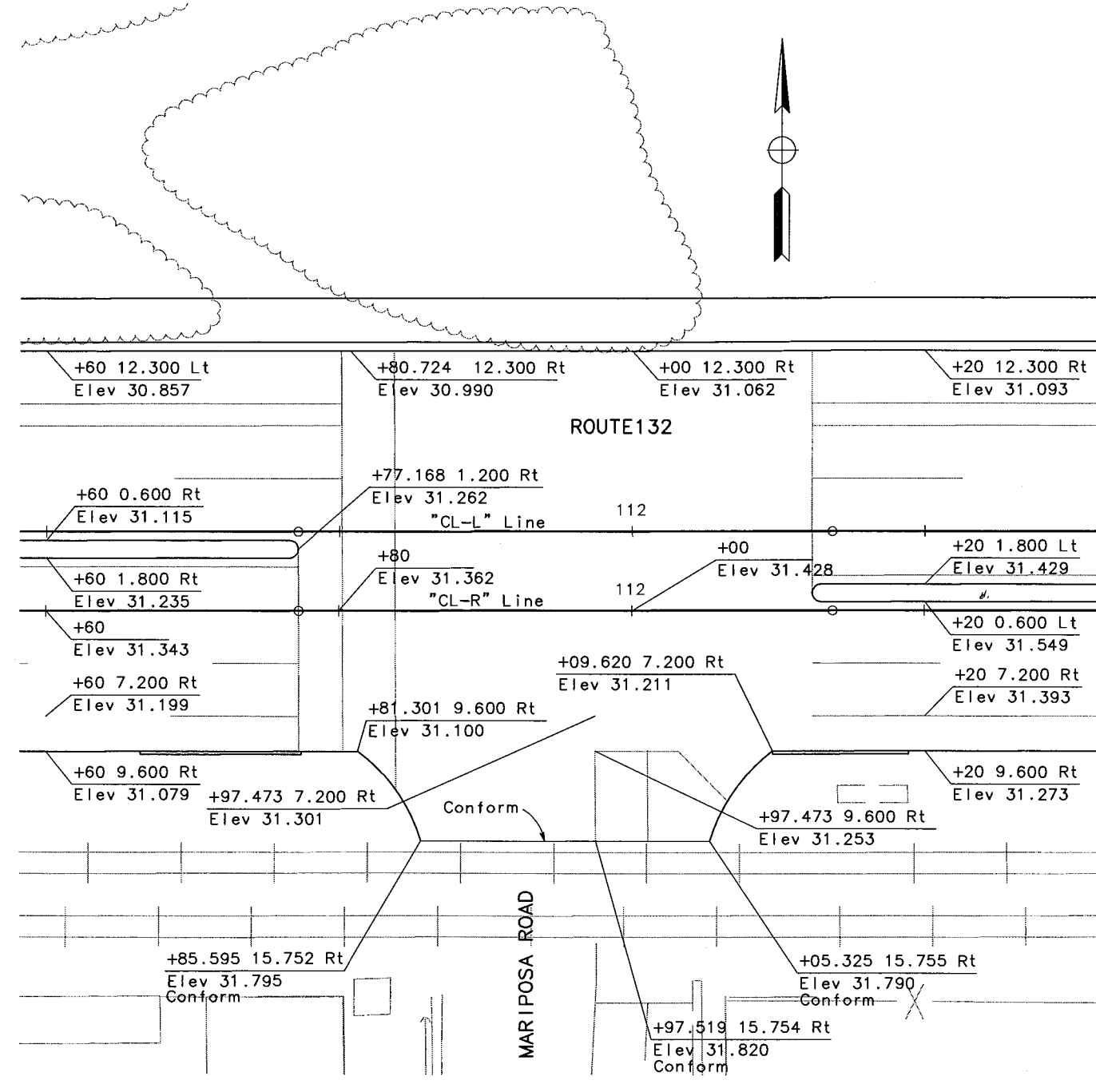
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CHRISTINA HIBBARD

CALCULATED/DESIGNED BY  
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DATE 5/06  
REVISED BY  
BG 5/06  
DATE REVISED

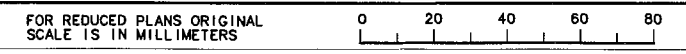


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JULY 7, 2006

CONSTRUCTION DETAILS  
PAVEMENT ELEVATIONS  
SCALE 1:200  
C-10



USERNAME => \$USER  
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DATE PLOTTED => \$DATE  
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	33	

REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06

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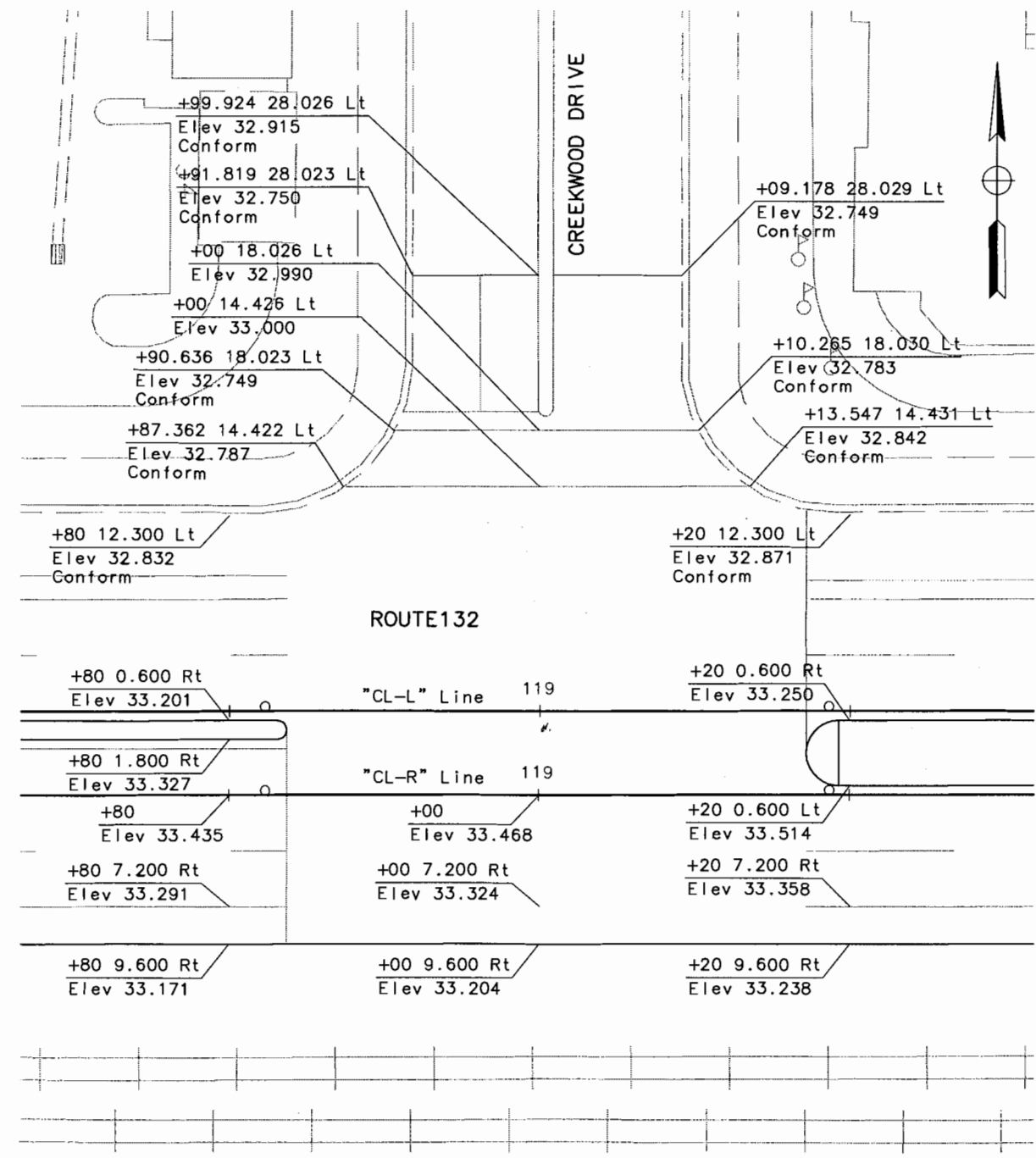
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DESIGN OVERSIGHT: CHRISTINA HIBBARD

DATE: 5/06

REVISOR: BG

DATE: 5/06

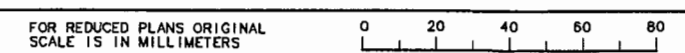


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CONSTRUCTION DETAILS  
PAVEMENT ELEVATIONS  
SCALE 1:200  
C-11



USERNAME => \$USER  
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DATE PLOTTED => \$DATE \$TIME

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER

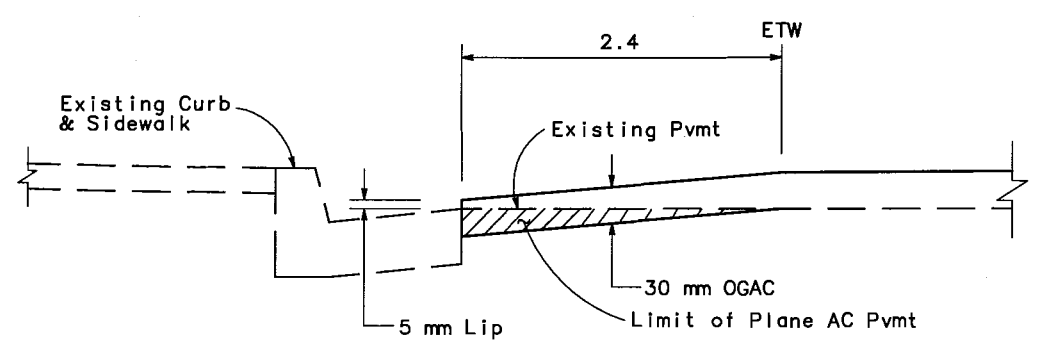
Bo Gao  
No. C59985  
Exp. 6/30/06

PLANS APPROVAL DATE

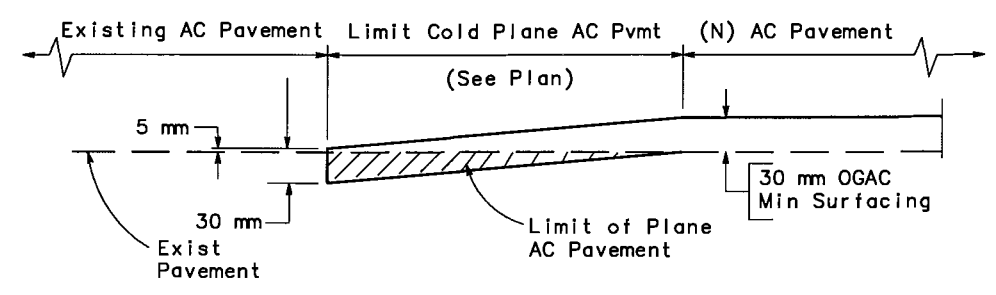
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900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

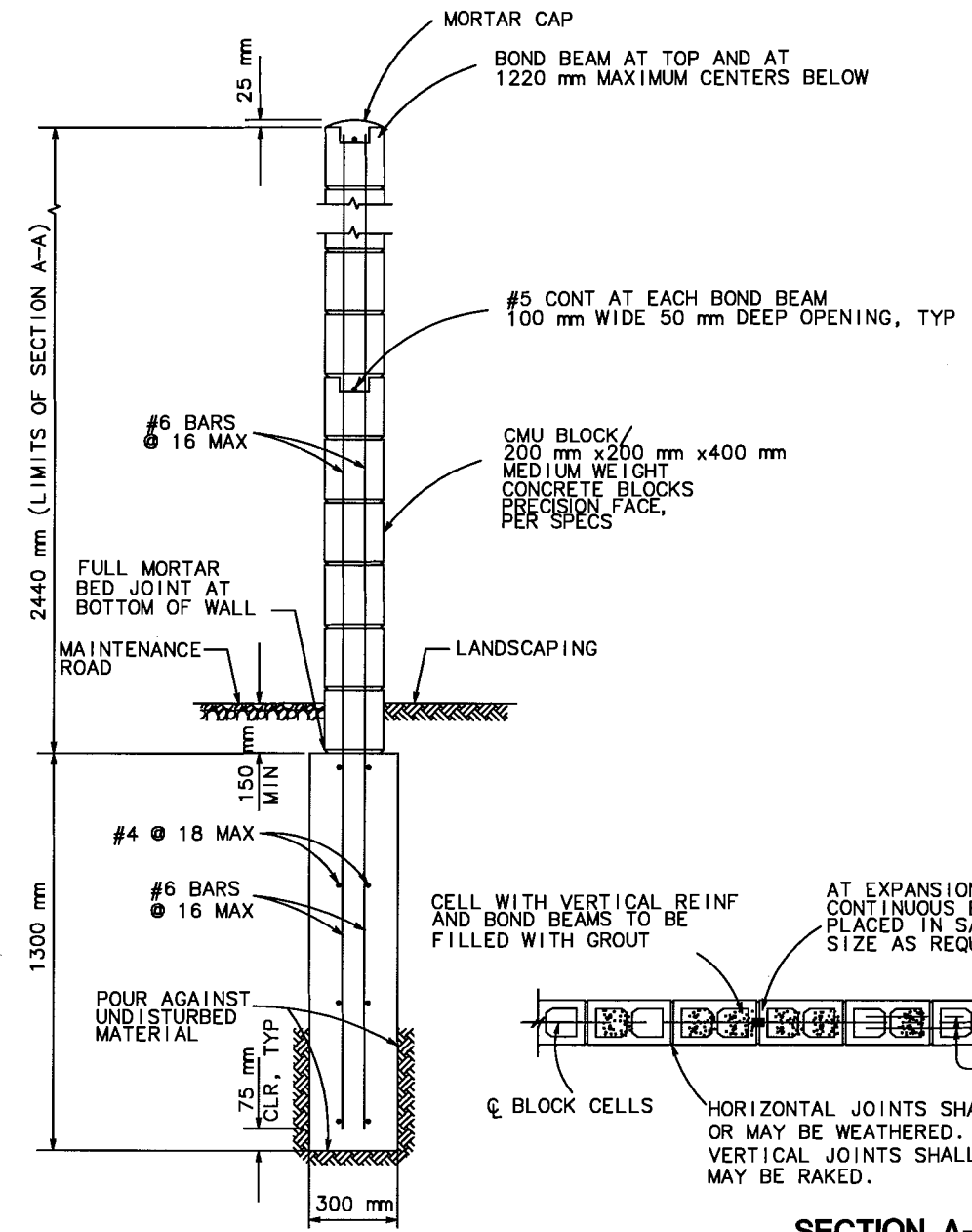
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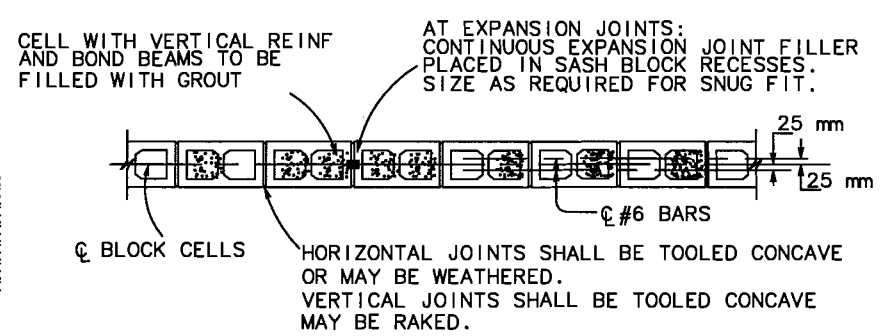
**COLD PLANE AC PAVEMENT CONFORM AT EXISTING GUTTER**



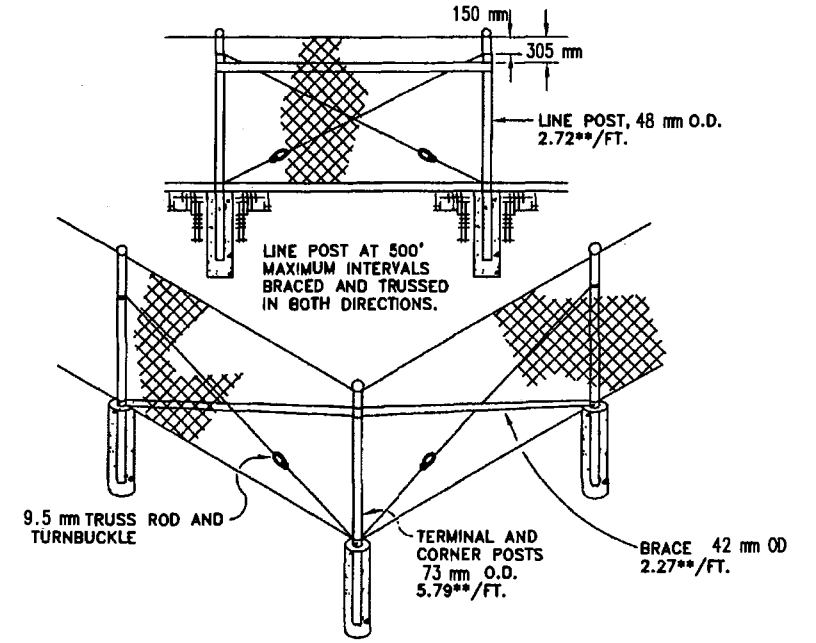
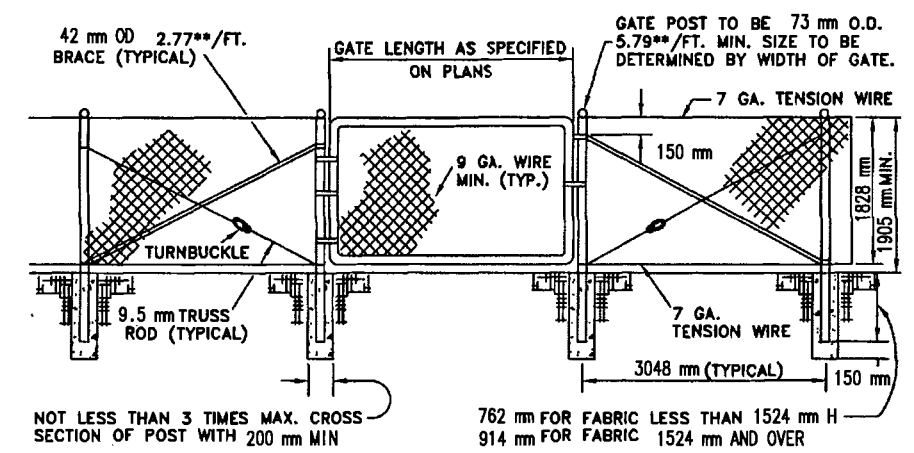
**COLD PLANE AC PAVEMENT CONFORM AT AC PAVEMENT**



**MASONRY WALL SECTION**



**SECTION A-A**



**CHAIN LINK FENCE AND GATE**

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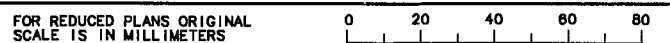
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET C-1.

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**CONSTRUCTION DETAILS**

NO SCALE

**C-12**



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CU 06251

EA 3A1101

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
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DESIGN OVERSIGHT: CHRISTINA HIBBARD

DATE REVISION BY: 5/06 BG 5/06 DATE REVISION

DATE PLOTTED => \$DATE \$TIME

LAST REVISION 9-3-04

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	35	



REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06

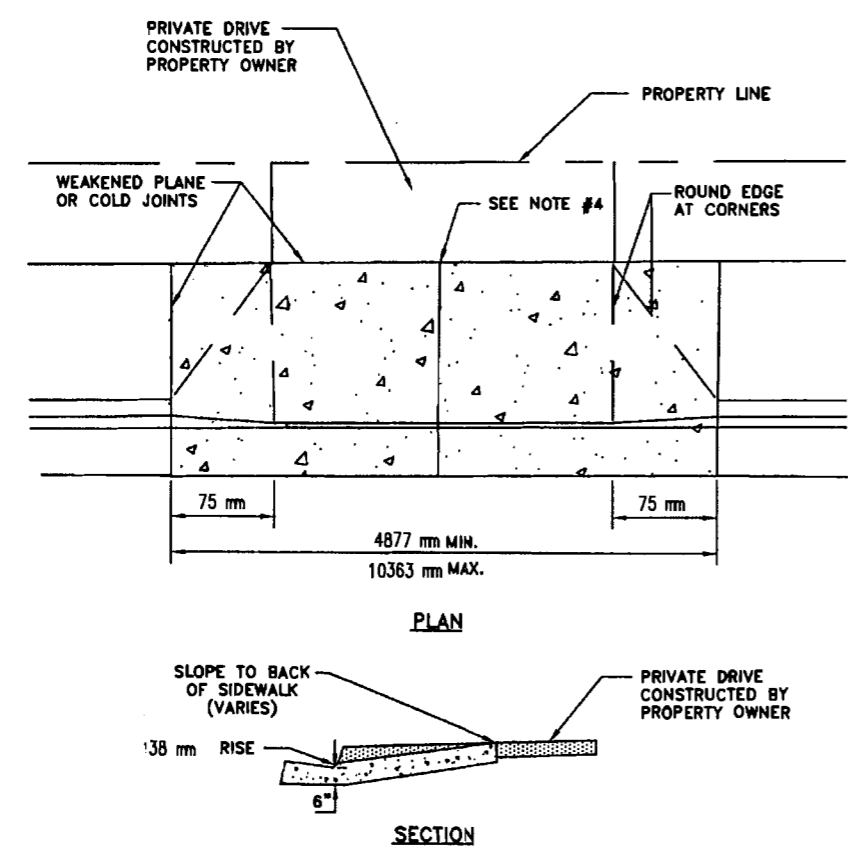
PLANS APPROVAL DATE

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900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
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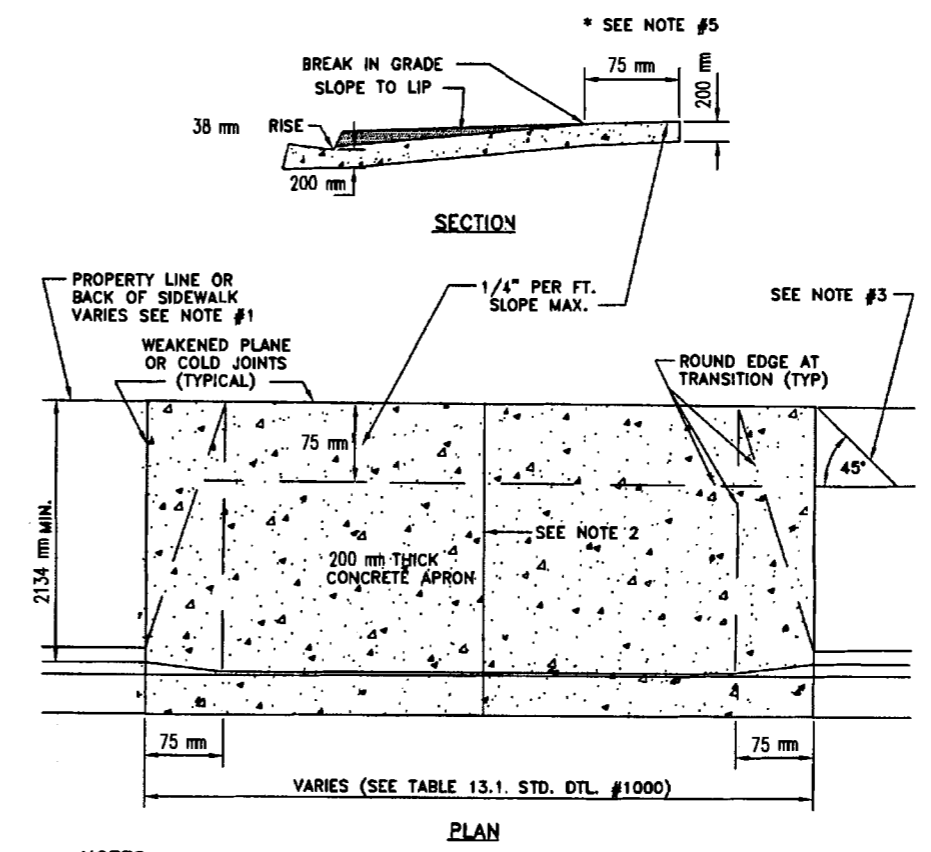
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 CHRISTINA HIBBARD  
 DATE 5/06  
 REVISOR BY BG 5/06  
 DATE REVISOR



- NOTES:**
1. UNSUITABLE SOIL SHALL BE REMOVED AND REPLACED WITH SAND.
  2. NON-MONOLITHIC DRIVEWAY APPROACHES MAY BE CONSTRUCTED WHERE DEPRESSED CURB EXISTS OR WHERE CURB IS PLACED WITH A SLIP FORM MACHINE.
  3. IN RETROFIT AREAS, THE WIDTH OF THE STREET PATCH SHALL BE A MINIMUM OF 150 mm
  4. INTERMEDIATE WEAKENED PLANE JOINTS IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS (8.01 E).

**RESIDENTIAL FLARED DRIVEWAYS**

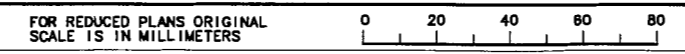


- NOTES:**
1. REFER TO TYPICAL STREET SECTIONS OR CALL THE ENGINEERING & TRANSPORTATION DEPARTMENT AT 577-5264 FOR PROPERTY LINE LOCATION.
  2. INTERMEDIATE WEAKENED PLANE JOINT IN ACCORDANCE WITH CONSTRUCTION STANDARDS (SECTION 8.01 E).
  3. PROVIDE TRANSITION FOR SIDEWALKS THAT ARE LESS THAN FULL WIDTH.
  4. IN RETROFIT AREAS, ASPHALT SHALL BE CUT A MINIMUM OF 150 mm FROM LIP OF CURB
  5. OPTIONAL IN P-O AND M ZONES.

**COMMERCIAL FLARED DRIVEWAYS**

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AND LEGEND, SEE SHEET C-1.



**FINAL SUBMITTAL**  
**JULY 7, 2006**

**CONSTRUCTION DETAILS**  
NO SCALE  
**C-13**

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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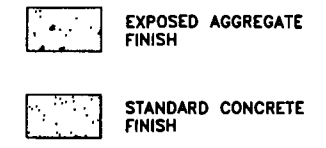
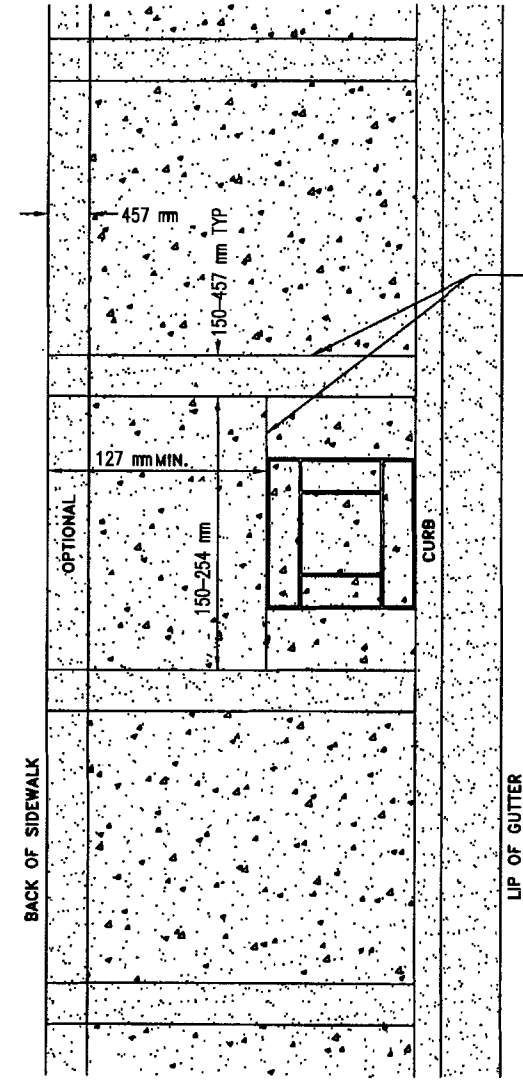
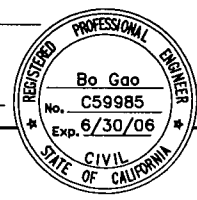
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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 MODESTO, CA 95354

RAJAPPAN & MEYER  
 CONSULTING ENGINEERS, INC.  
 1038 LEIGH AVENUE, SUITE 100  
 SAN JOSE, CALIFORNIA 95126

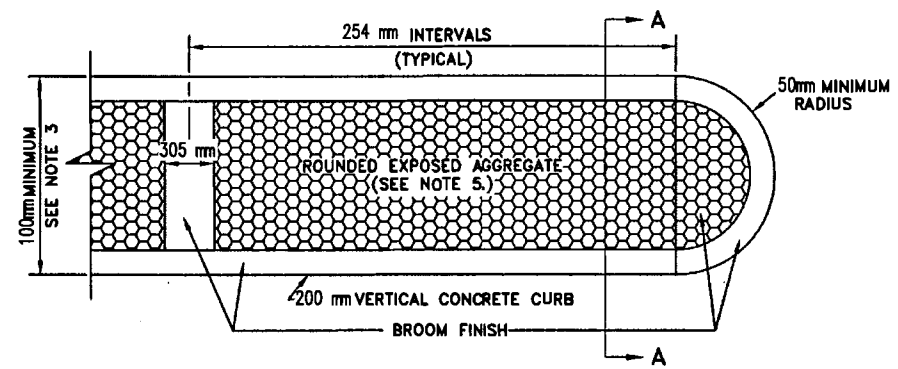
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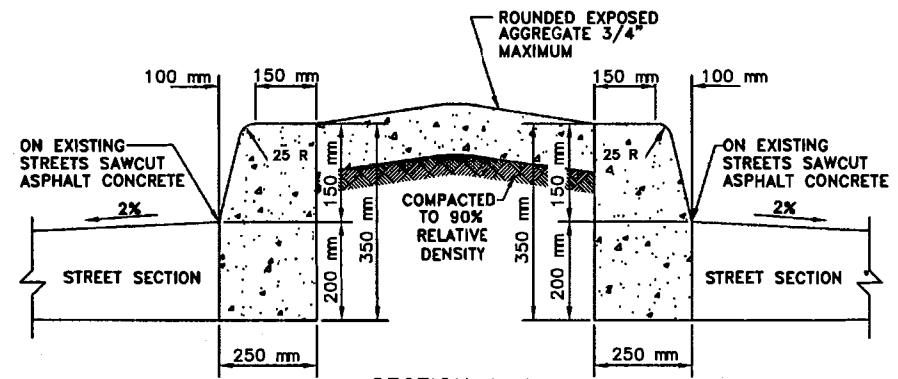
WEAKENED PLANE OR COLD JOINT (TYPICAL)

**NOTES:**  
 1. FOR FULL WALK EXPANSION, MATERIAL SHALL BE PLACED ADJACENT TO STRUCTURE.

**CONCRETE SIDEWALK WITH BLOCK OUT TREE WELL**



**PLAN**



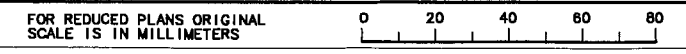
**SECTION A-A**

**NOTES:**

- ON LANDSCAPED MEDIANS, CURB SHALL EXTEND TO BOTTOM OF AGGREGATE BASE.
- PROVIDE WEAKENED PLANE JOINTS IN ACCORDANCE WITH CONSTRUCTION STANDARDS (3.05B) AND AT END OF RETURNS.
- MEDIANS GREATER THAN 1.80 m SHALL BE LANDSCAPED.
- MEDIANS SHALL BE CONTINUOUS FROM START AT AN INTERSECTION FOR A MINIMUM DISTANCE OF 91.5 m. ALL DRIVEWAYS WITHIN THIS DISTANCE SHALL BE RIGHT-IN AND RIGHT-OUT ONLY. MEDIANS SHALL EXTEND A MINIMUM OF 30.5 m FROM THE FURTHEST EDGE OF ANY DRIVEWAY LOCATED WITHIN THE FIRST 91.5 m OF A STREET MEASURED FROM THE START POINT OF THE MEDIAN AT AN INTERSECTION.
- MEDIANS ON PRINCIPAL ARTERIALS AND ABOVE AND LESS THAN 1.80 m IN WIDTH SHALL BE PAVED WITH COLORED STAMPED CONCRETE WITHOUT 305 mm BROOM FINISH AREAS.
- SEE TYPICAL CROSS SECTION AND CONSTRUCTION DETAILS FOR MEDIAN CROSS SLOPE

**MEDIAN DETAILS**

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET C-1.



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 JULY 7, 2006**

**CONSTRUCTION DETAILS**  
 NO SCALE  
**C-14**

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10	STA	132	28.4/30.7	37	



REGISTERED CIVIL ENGINEER

**Bo Gao**  
No. C59985  
Exp. 6/30/06

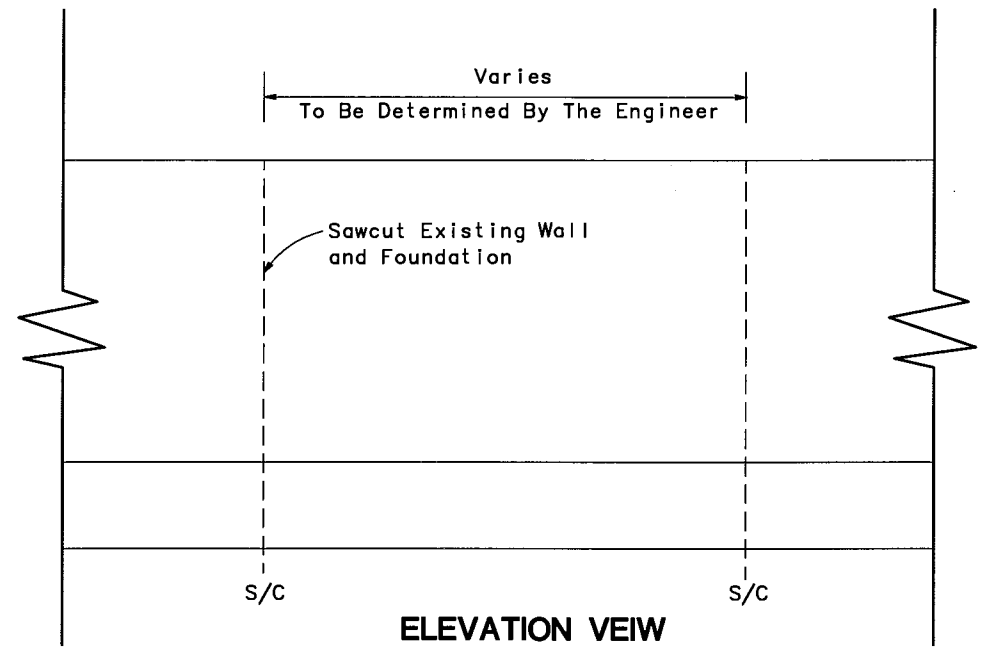
PLANS APPROVAL DATE

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900 H STREET, SUITE D  
MODESTO, CA 95354

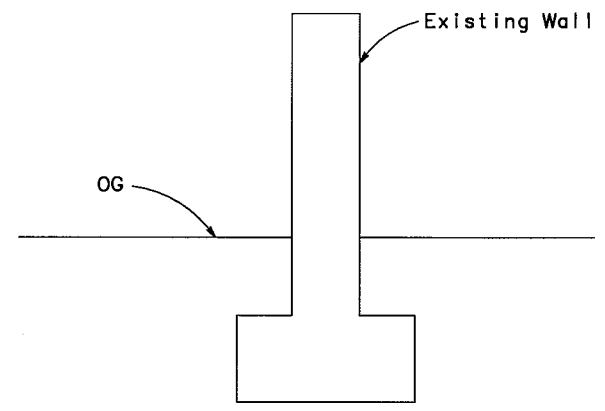
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NOTE:  
CONTRACTOR IS TO PROVIDE SHOP DRAWING OF DETAILS TO BE APPROVED BY THE ENGINEER.

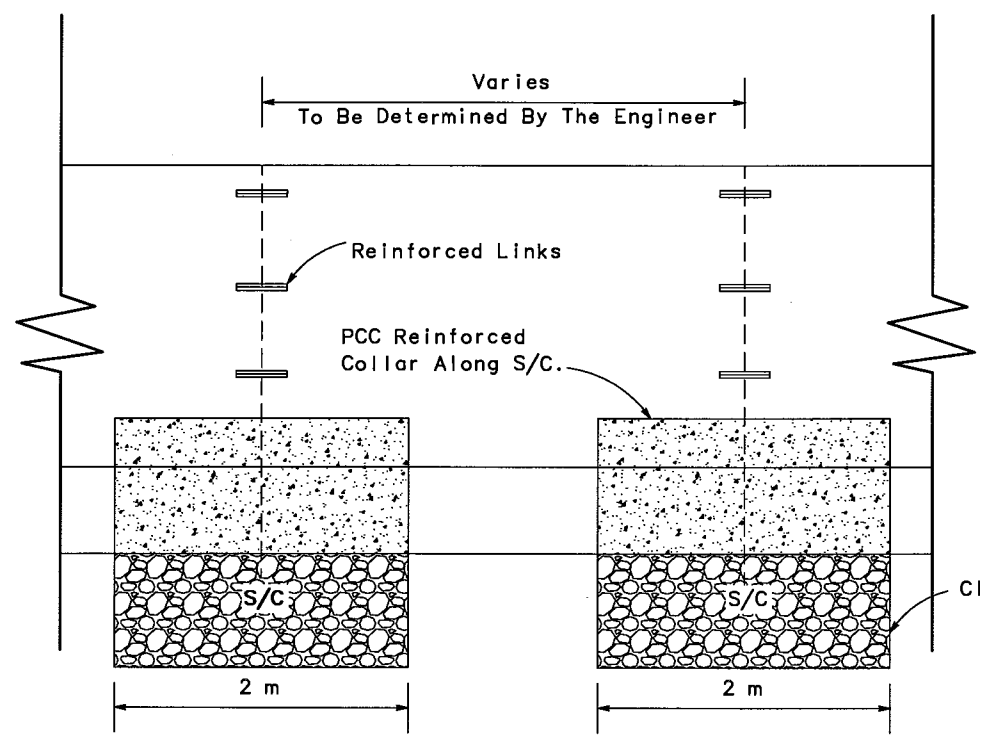


ELEVATION VIEW

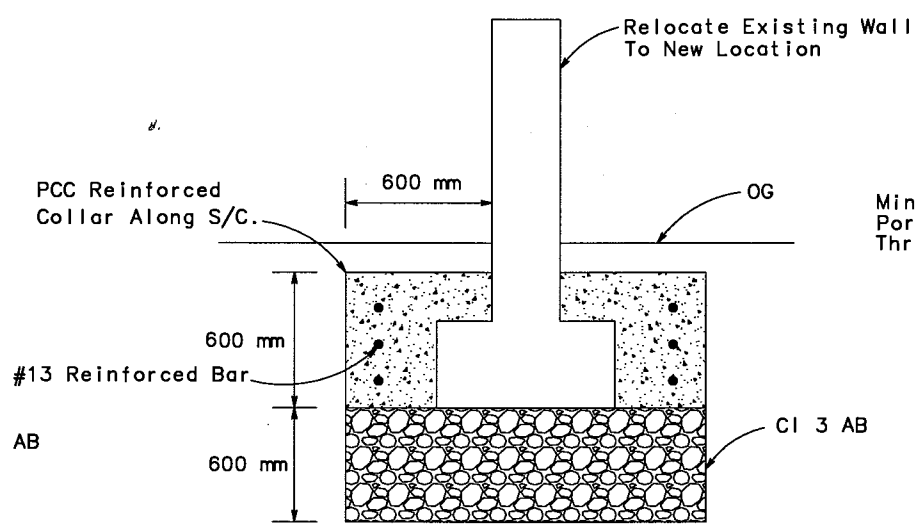


SECTION VIEW

EXISTING WALL AND FOUNDATION

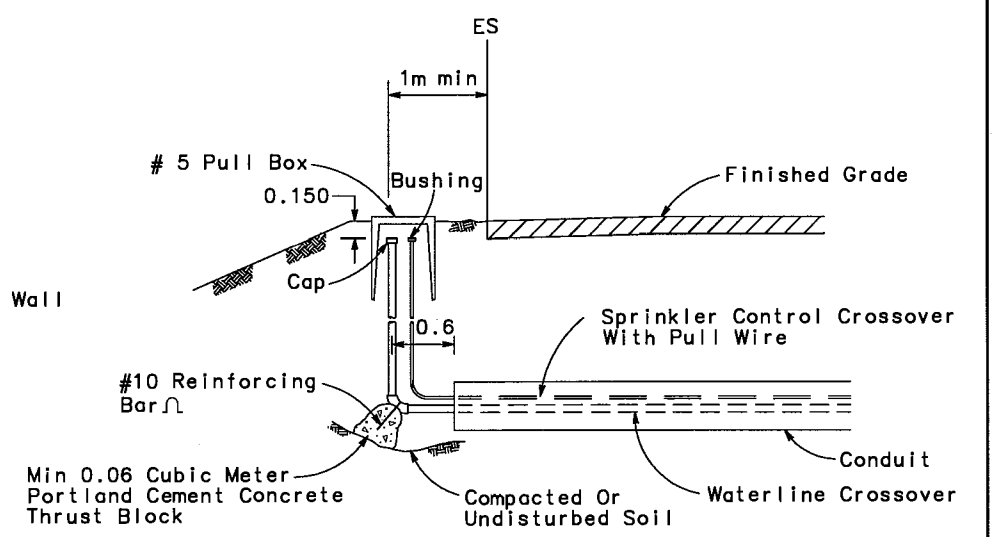


ELEVATION VIEW



SECTION VIEW

RELOCATED WALL AND FOUNDATION



IRRIGATION CROSSOVER SECTION

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 CHECKED BY: BG  
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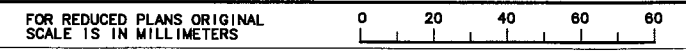


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JULY 7, 2006

CONSTRUCTION DETAILS  
NO SCALE  
C-15



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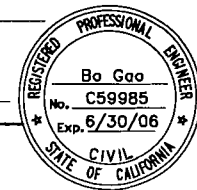


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	36	

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

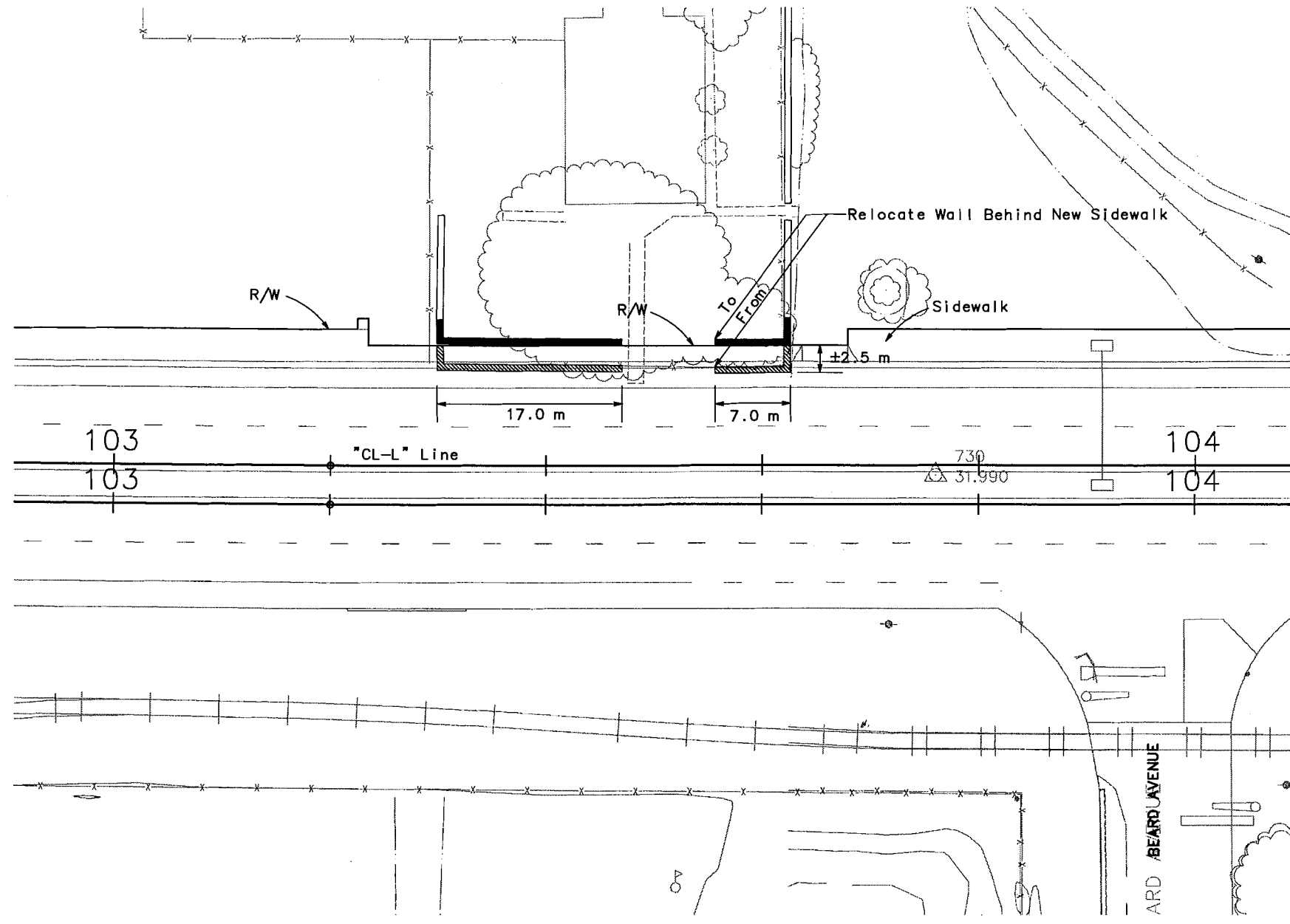
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MODESTO, CA 95354



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DESIGN OVERSIGHT		
CHRISTINA HIBBARD		
DEPARTMENT OF TRANSPORTATION		
STATE OF CALIFORNIA		
Caltrans		

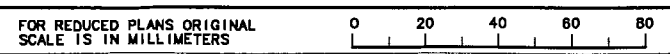


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CONSTRUCTION DETAILS  
NO SCALE  
C-16



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LAST REVISION

**NOTES**

For more details on Drainage, see Drainage Plans.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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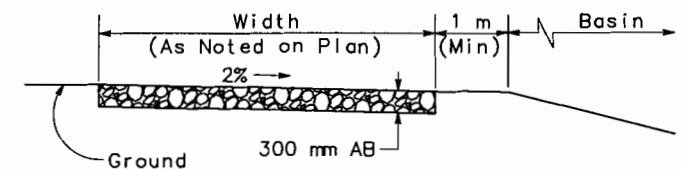
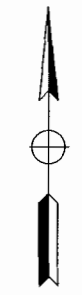
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PLANS APPROVAL DATE

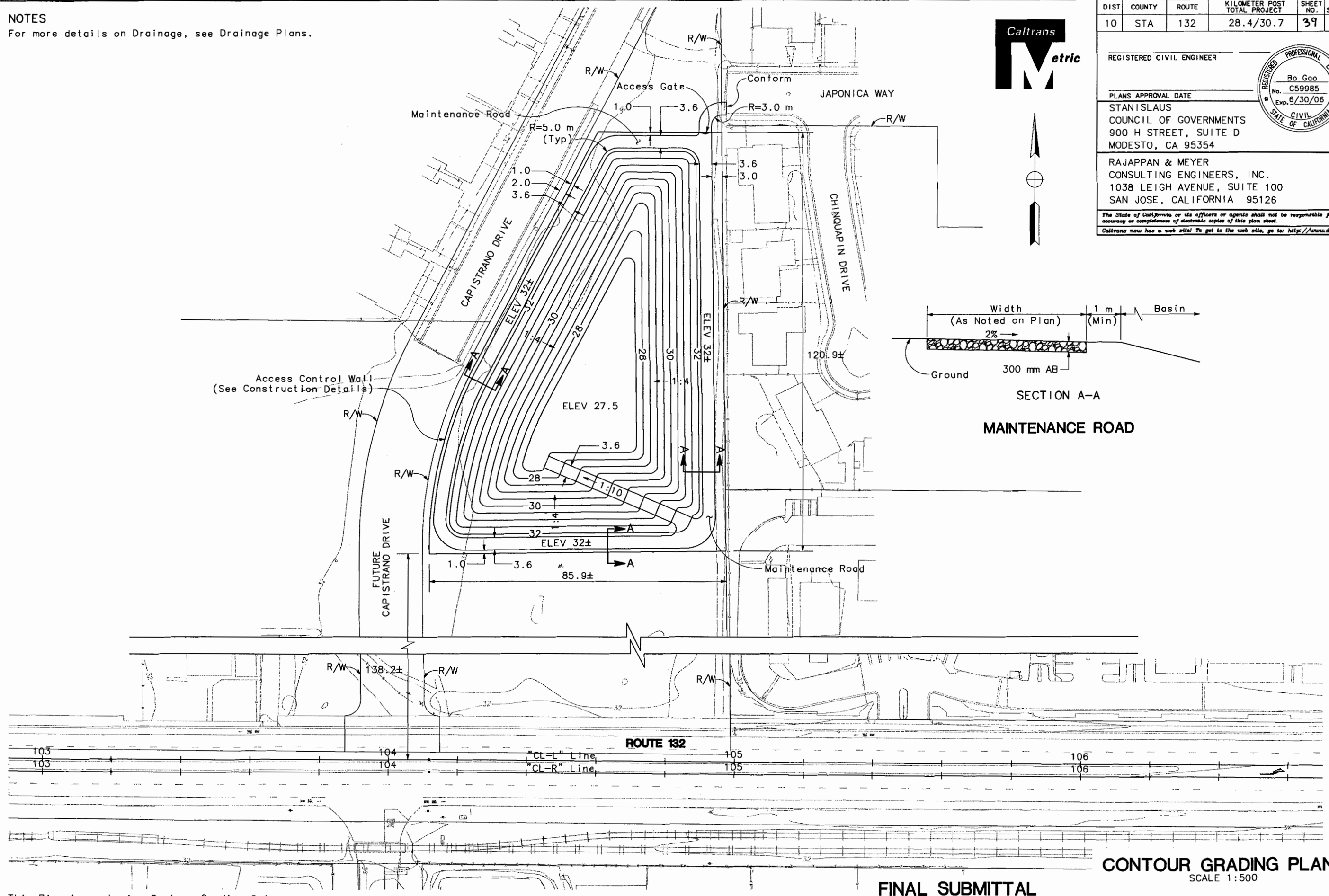
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SECTION A-A  
MAINTENANCE ROAD

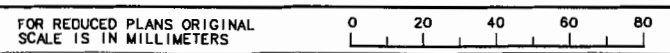


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**CONTOUR GRADING PLANS**  
SCALE 1:500

G-1



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BG 5/06	BG 5/06	BG 5/06	BG 5/06
DESIGNED BY	CHECKED BY	DESIGNED BY	CHECKED BY
SM 5/06	BG 5/06	SM 5/06	BG 5/06
DESIGN OVERSIGHT	DESIGN OVERSIGHT	DESIGN OVERSIGHT	DESIGN OVERSIGHT
CHRISTINA HIBBARD	CHRISTINA HIBBARD	CHRISTINA HIBBARD	CHRISTINA HIBBARD
DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION
STATE OF CALIFORNIA	STATE OF CALIFORNIA	STATE OF CALIFORNIA	STATE OF CALIFORNIA
Caltrans	Caltrans	Caltrans	Caltrans

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BC


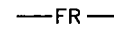
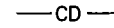


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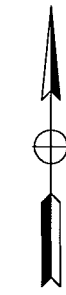
REVISOR BY  
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**NOTES**

1. For Additional Drainage Information, See Drainage Sheets.
2. Temporary Erosion Control shall apply to all disturbed areas as provided in the specifications and special provisions.
3. Adjustment/modifications shall be made as needed to address actual site conditions as directed by the Engineer.

**LEGEND**

-  Erosion Control (Type D)
-  Temporary Fiber Roll
-  Temporary Gravel Bag Check Dam
-  Flared End Section Protection
-  Temporary Drainage Inlet Protection



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	40	

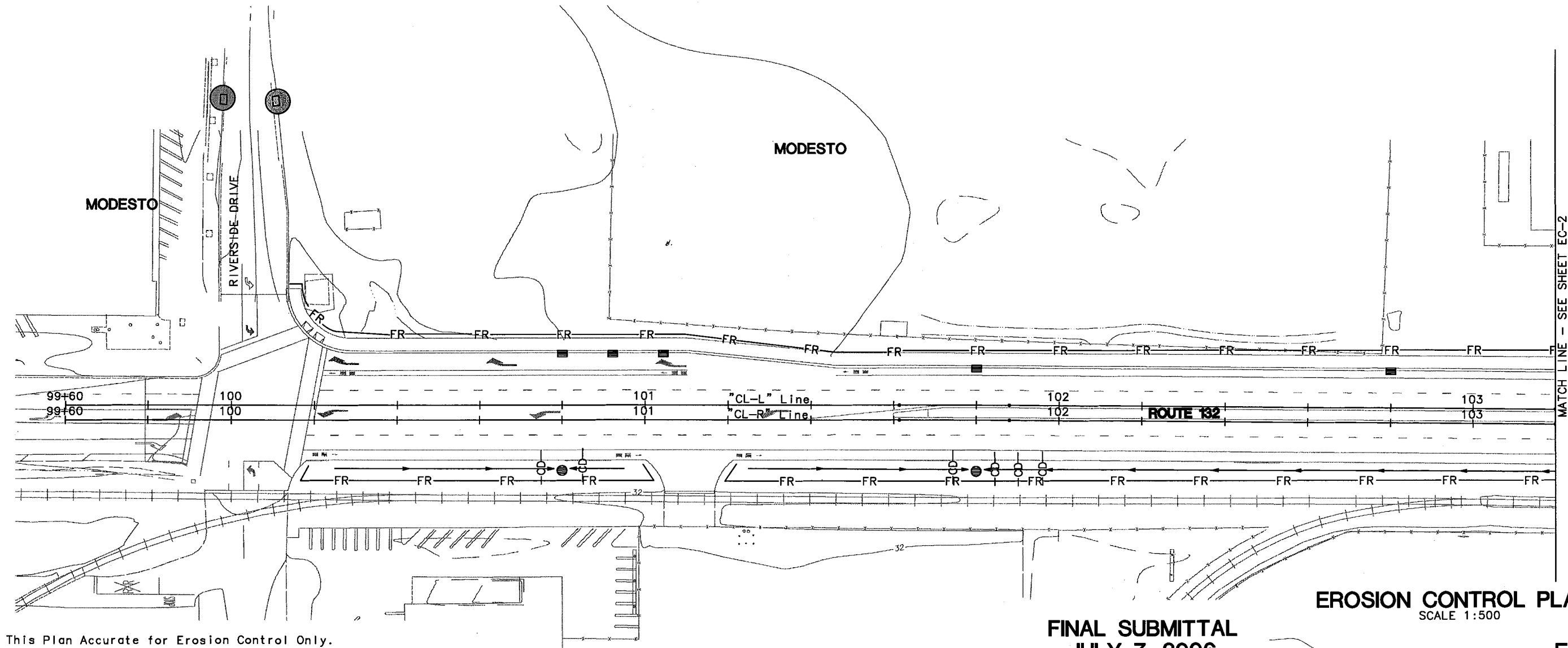
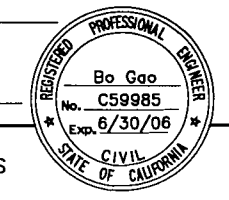
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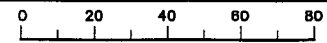
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**JULY 7, 2006**

**EROSION CONTROL PLANS**  
 SCALE 1:500

**EC-1**

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10	STA	132	28.4/30.7	41	

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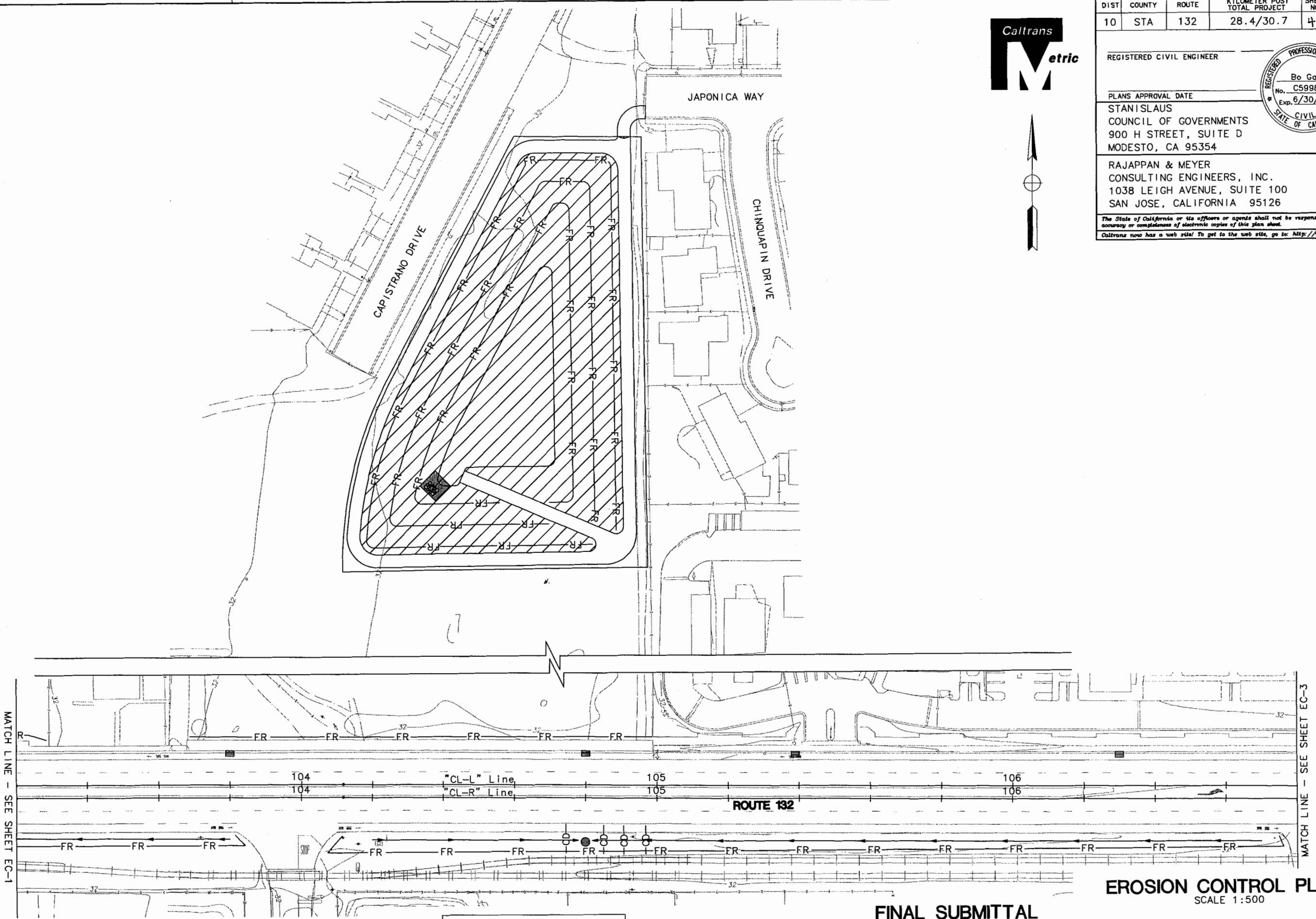
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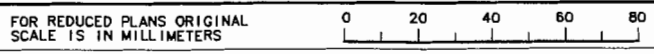
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JULY 7, 2006

EROSION CONTROL PLANS  
SCALE 1:500

EC-2



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 DATE 5/06



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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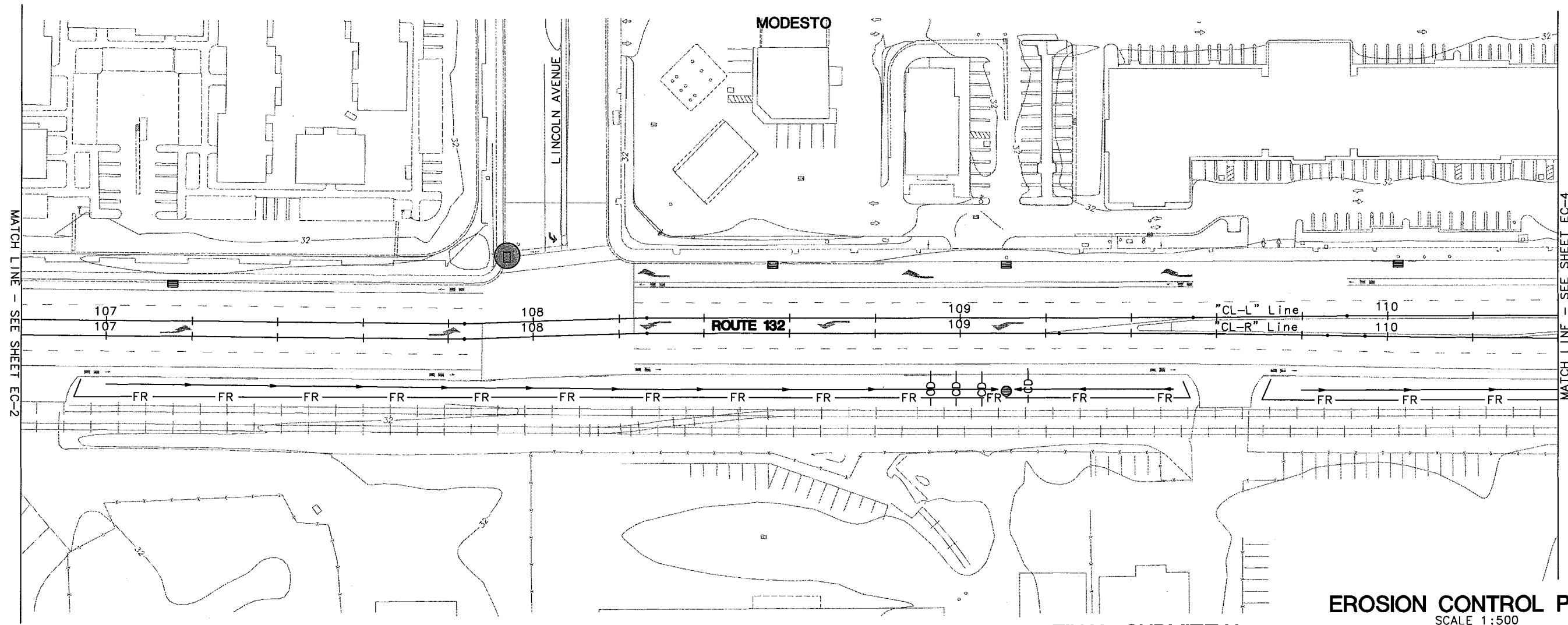
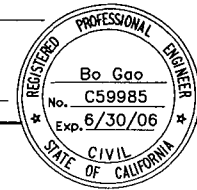
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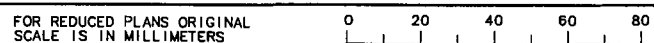
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**EROSION CONTROL PLANS**  
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**EC-3**



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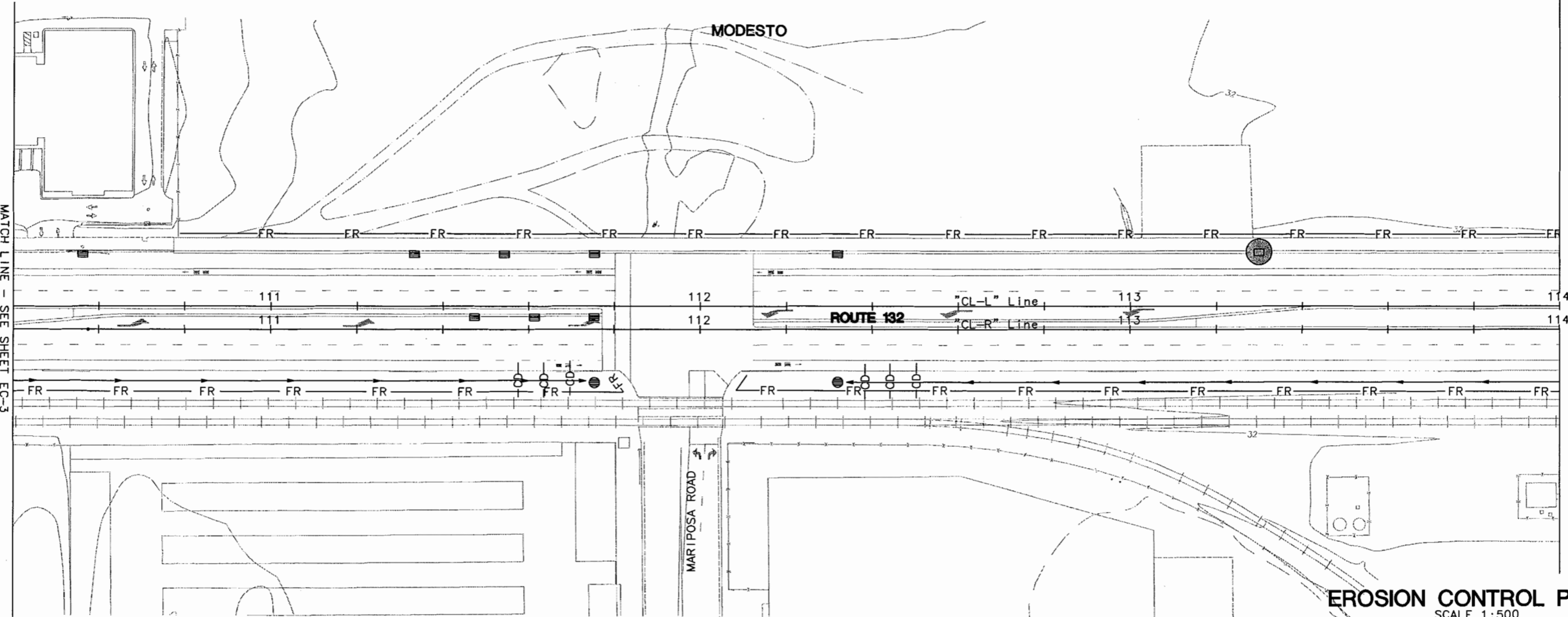
EA 3A1101

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 9-3-04



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN OVERSIGHT  
 CHRISTINA HIBBARD

CALCULATED/ DESIGNED BY	CHECKED BY	SM	BC	DATE	REVISOR	DATE
				5/06		
				5/06		



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	43	

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS  
 COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

RAJAPPAN & MEYER  
 CONSULTING ENGINEERS, INC.  
 1038 LEIGH AVENUE, SUITE 100  
 SAN JOSE, CALIFORNIA 95126

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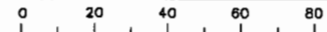
FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET EC-1.

FINAL SUBMITTAL  
 JULY 7, 2006

EROSION CONTROL PLANS  
 SCALE 1:500

EC-4

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 DATE

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	44	

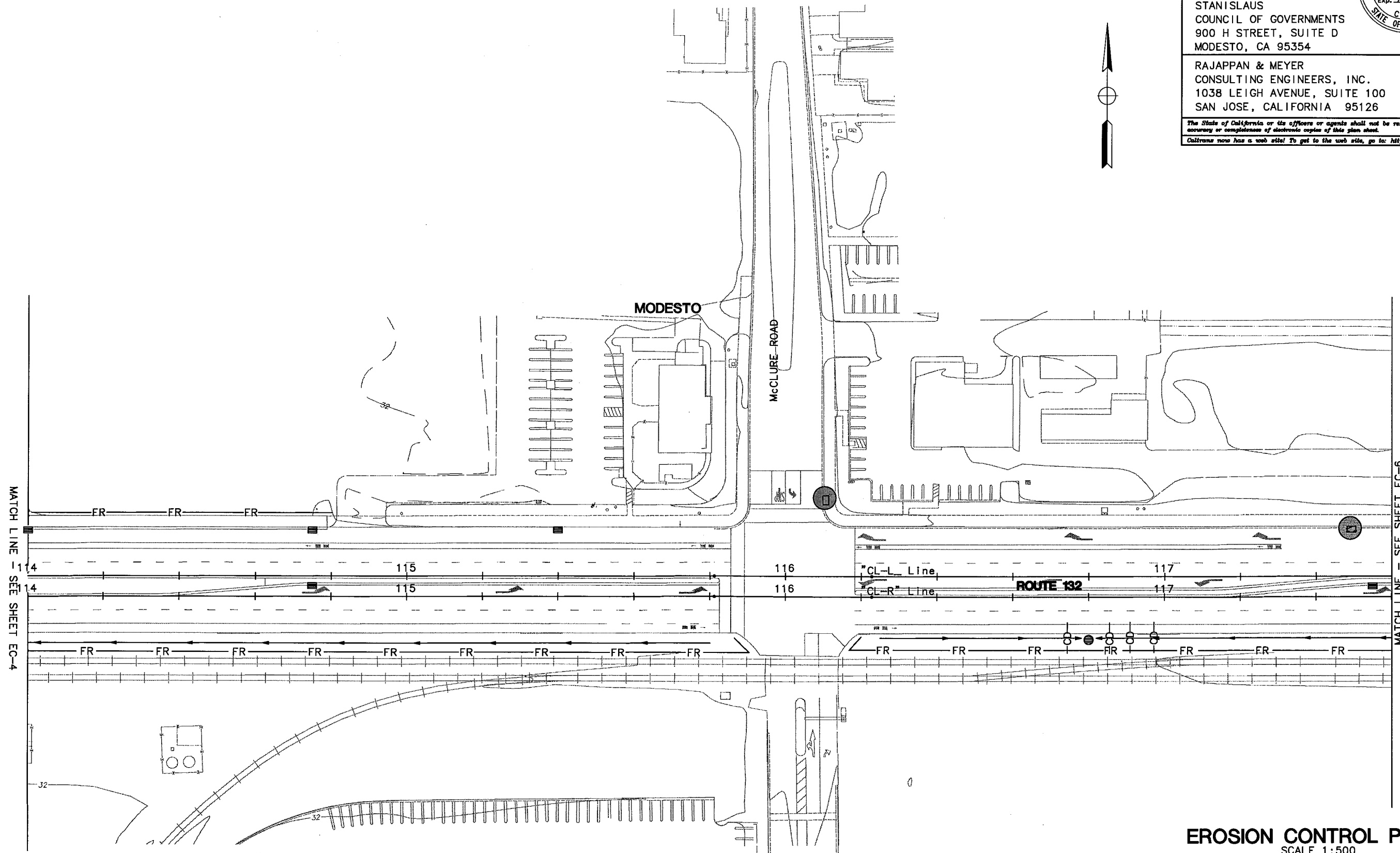


REGISTERED CIVIL ENGINEER  
**Bo Gao**  
 No. C59985  
 Exp. 6/30/06  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
 STANISLAUS  
 COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

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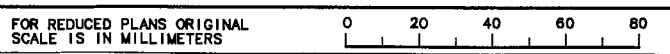
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**FINAL SUBMITTAL**  
**JULY 7, 2006**

**EROSION CONTROL PLANS**  
 SCALE 1:500

**EC-5**

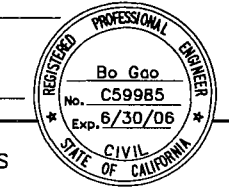


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 DGN FILE => \$REQUEST

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	45	



REGISTERED CIVIL ENGINEER

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CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

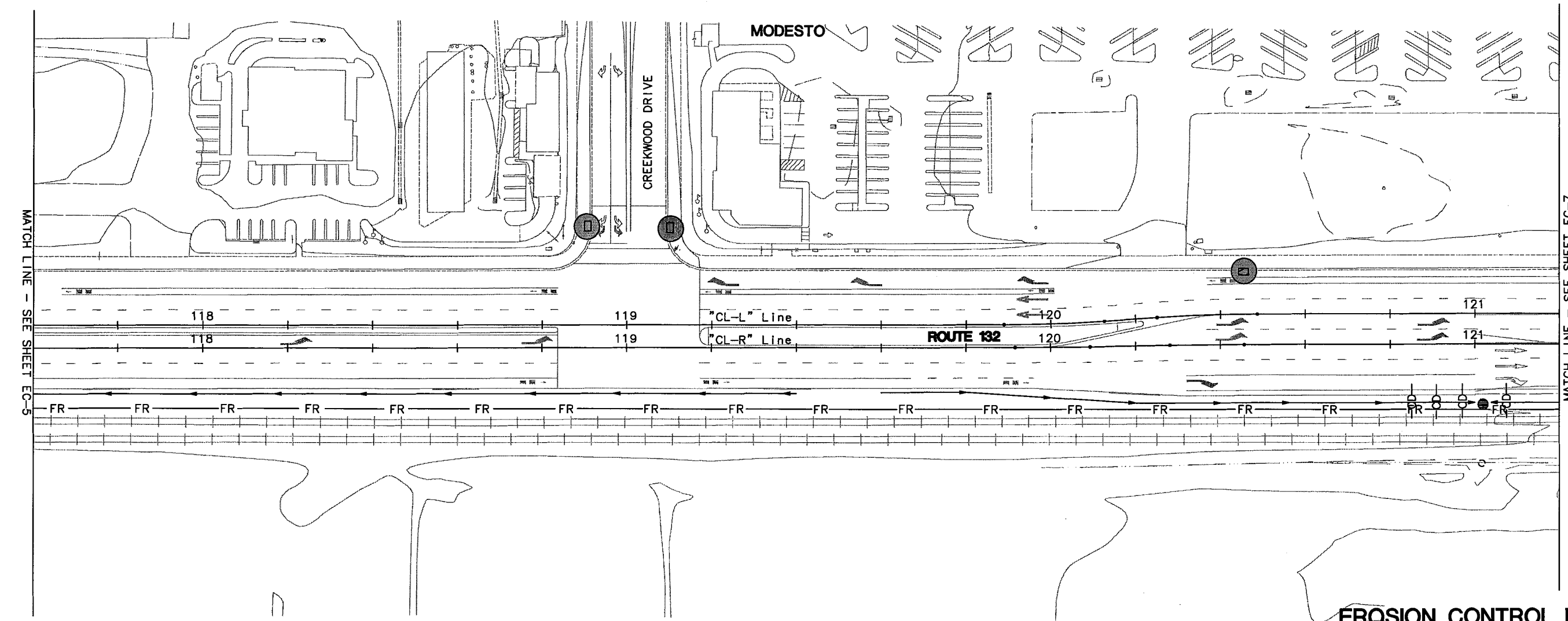
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DATE	REVISOR	BY	DATE	REVISOR	BY
5/06	SM	BG	5/06		

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**Caltrans**



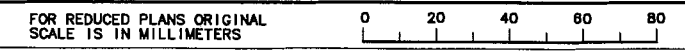
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**JULY 7, 2006**

**EROSION CONTROL PLANS**  
SCALE 1:500

**EC-6**



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 DATE: 5/06



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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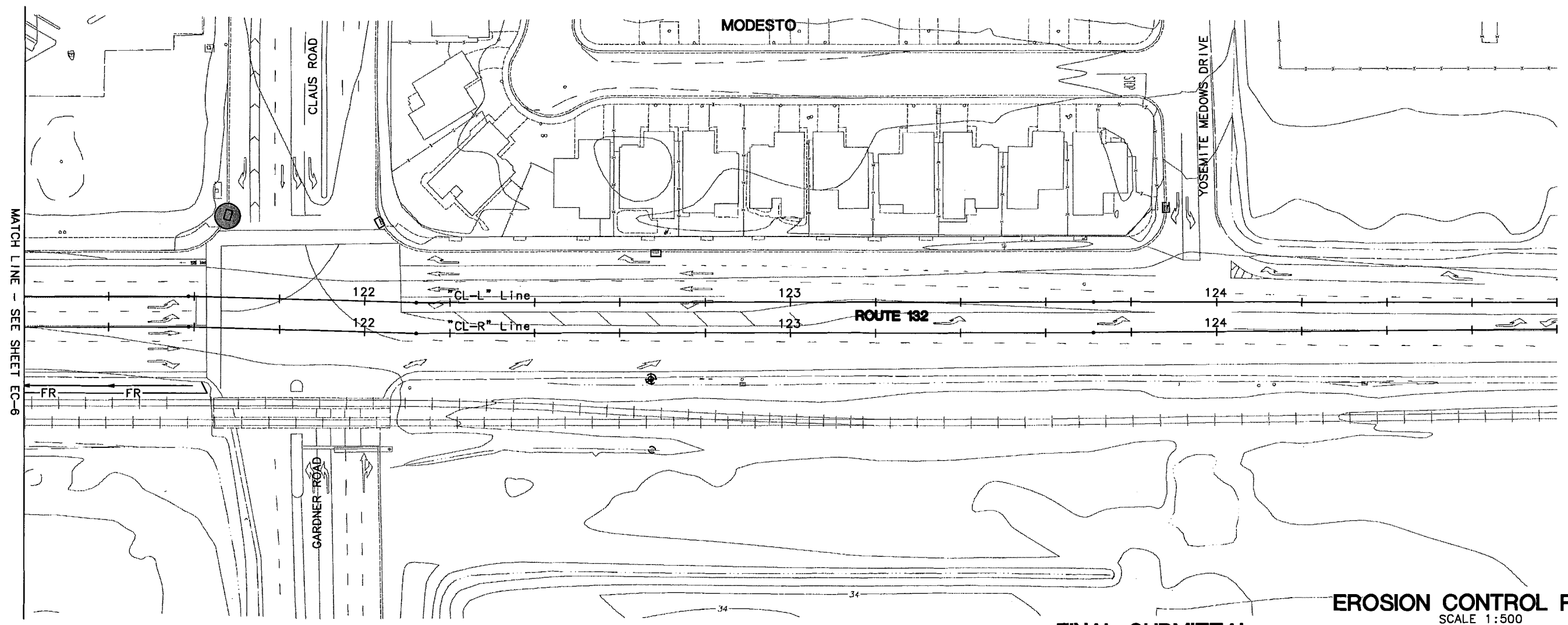
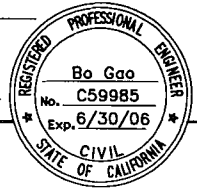
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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 MODESTO, CA 95354

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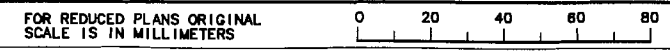


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**JULY 7, 2006**

**EROSION CONTROL PLANS**  
 SCALE 1:500  
**EC-7**



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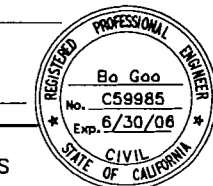
EA 3A1101

DATE PLOTTED => \$DATE  
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER



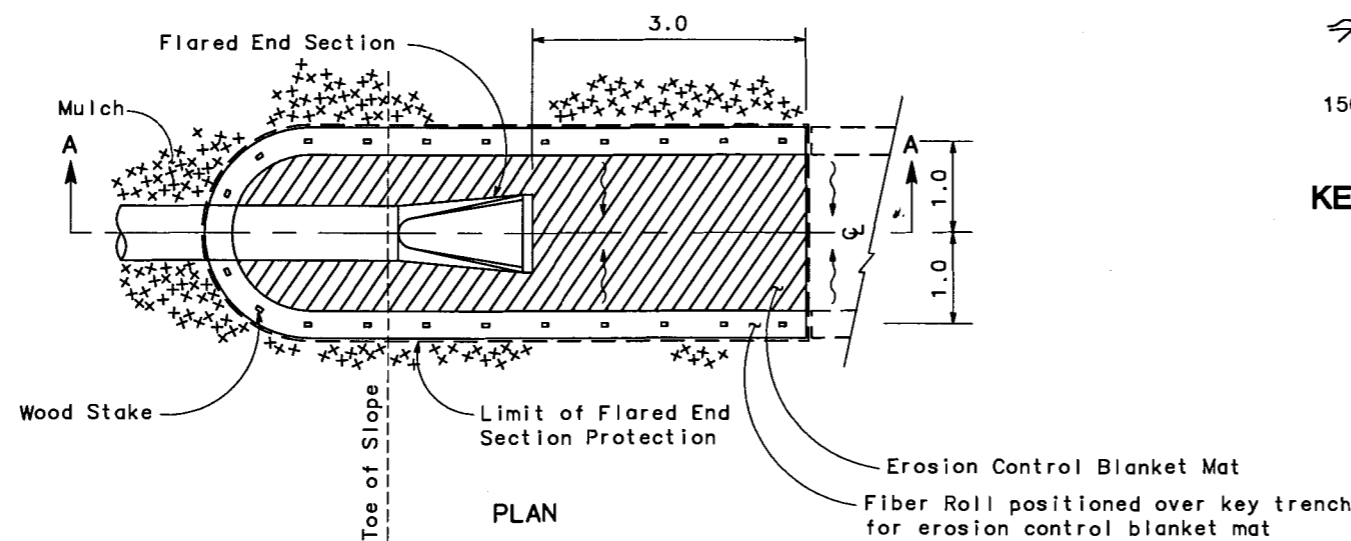
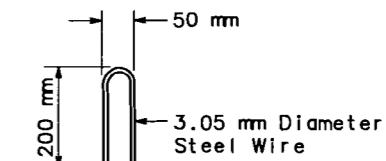
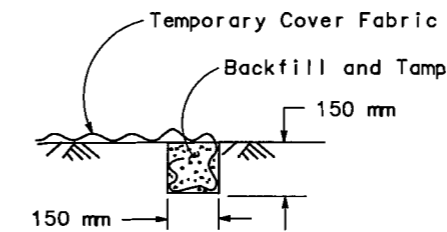
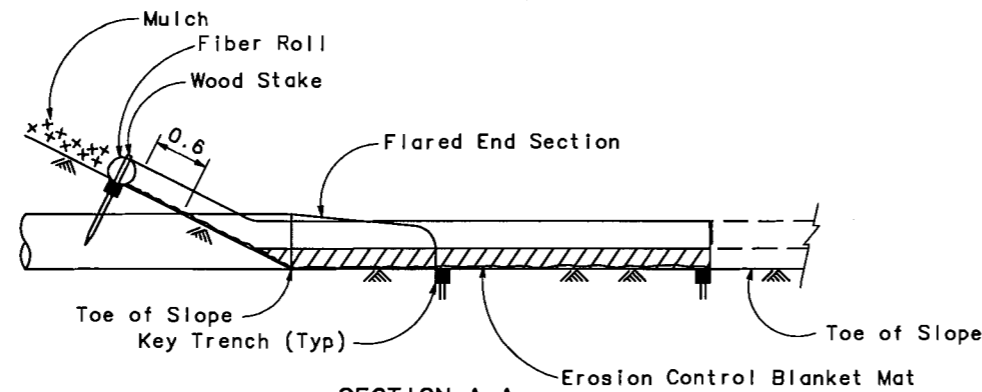
PLANS APPROVAL DATE

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NOTE: Amount of mulch to be determined by the Engineer



**FLARED END SECTION PROTECTION**

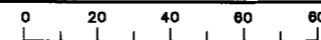
**EROSION CONTROL DETAILS**  
NO SCALE

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**EC-8**

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				5/06			
				5/06			

DESIGN OVERSIGHT  
CHRISTINA HIBBARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

DATE PLOTTED → 04/07/06  
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	48	



REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06

PLANS APPROVAL DATE

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MODESTO, CA 95354

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CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

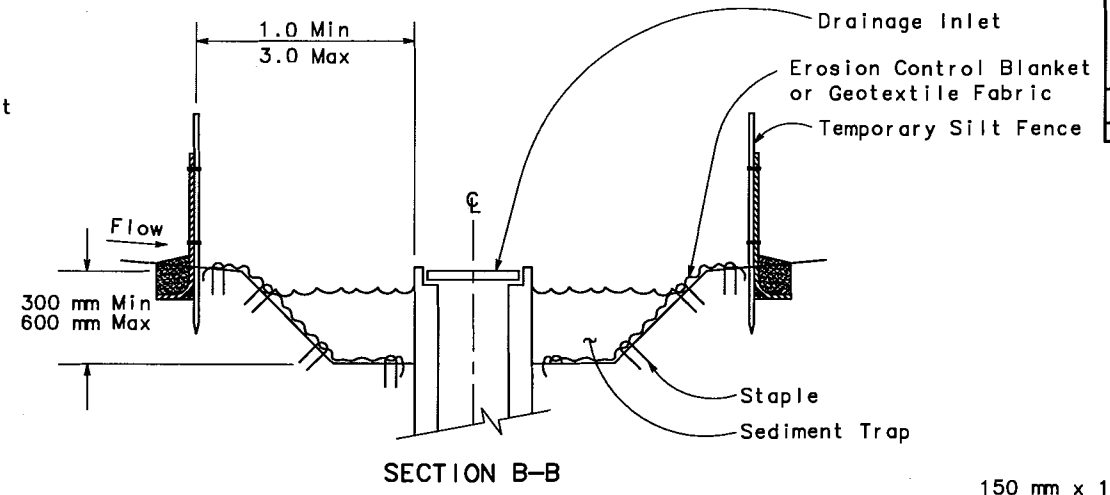
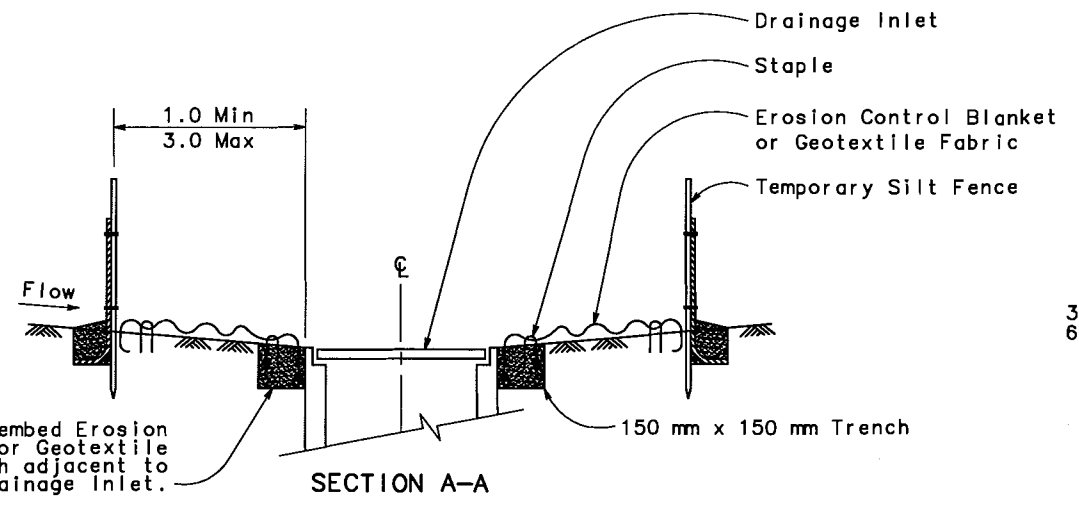
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- NOTES**
1. Install Temporary Silt Fence by first digging trench, driving posts, placing and securing fabric. Then backfill and tamp.
  2. Dimensions may vary to fit field conditions.

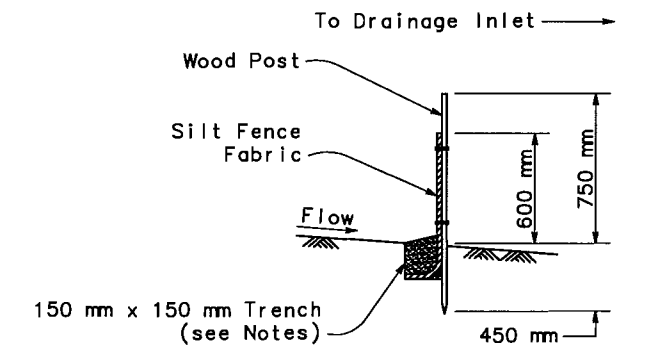
DATE	REVISOR	BY
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5/06	BG	BG

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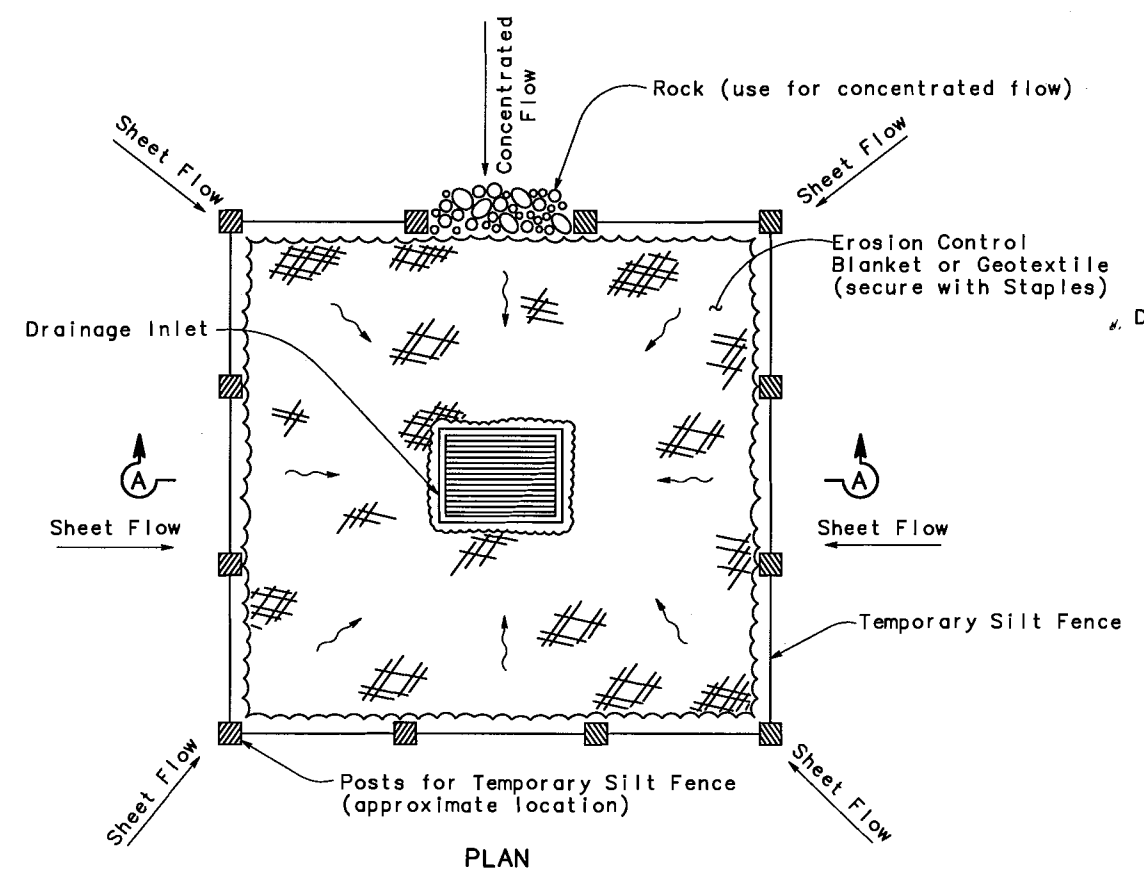
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans



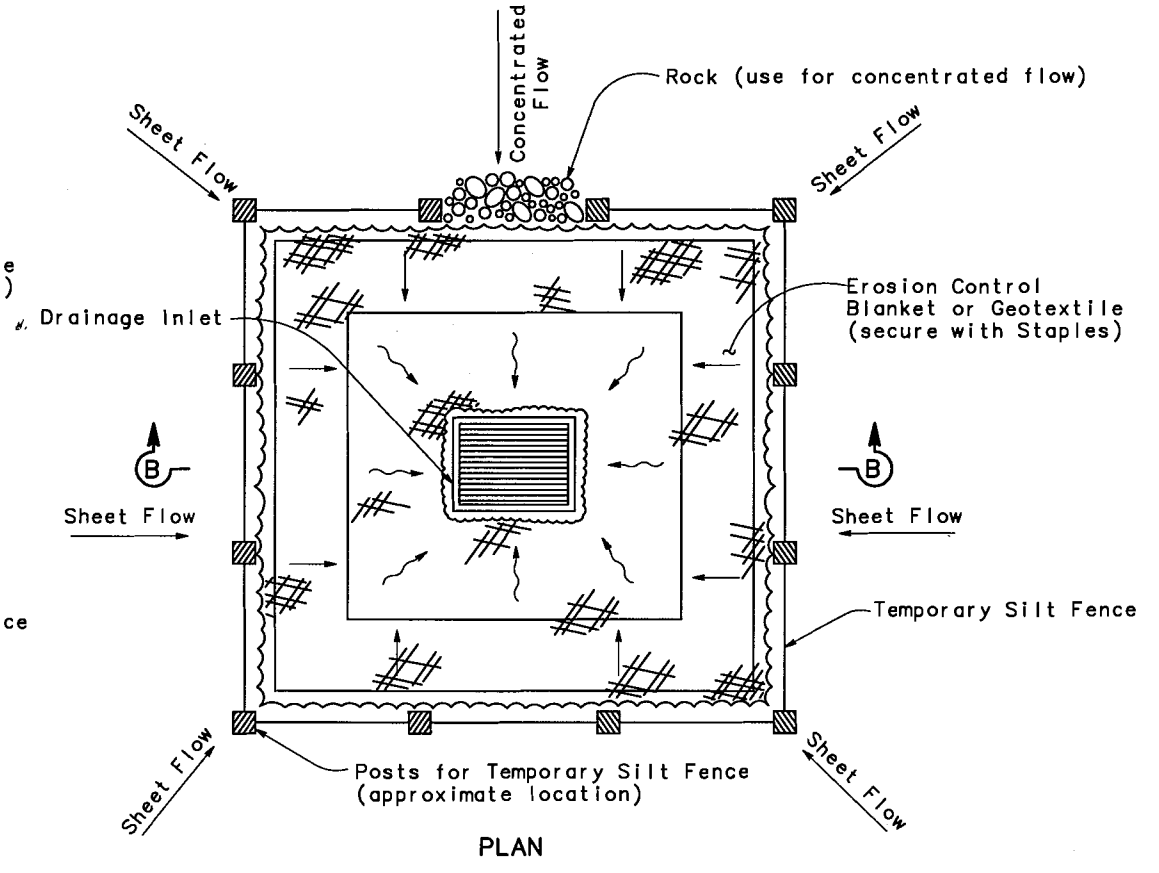
Trench and embed Erosion Control Blanket or Geotextile Fabric in trench adjacent to Drainage Inlet.



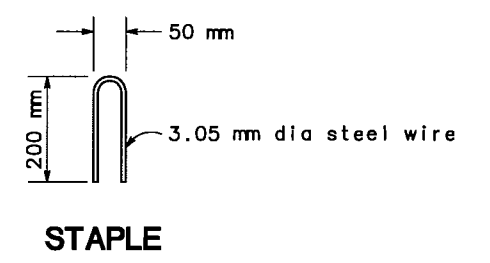
**SECTION  
TEMPORARY SILT FENCE**



**TEMPORARY DRAINAGE INLET PROTECTION  
(TYPE 1 - TEMPORARY SILT FENCE)**



**TEMPORARY DRAINAGE INLET PROTECTION  
(TYPE 2 - EXCAVATED SEDIMENT TRAP)**



**STAPLE**

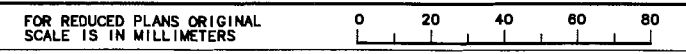
**WATER POLLUTION CONTROL DETAILS**

NO SCALE

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JULY 7, 2006**

**WPC-1**



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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	49	



REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
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MODESTO, CA 95354

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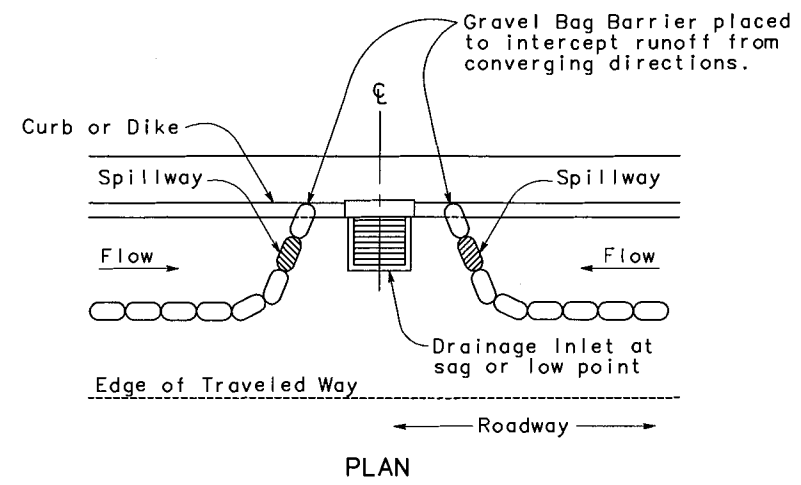
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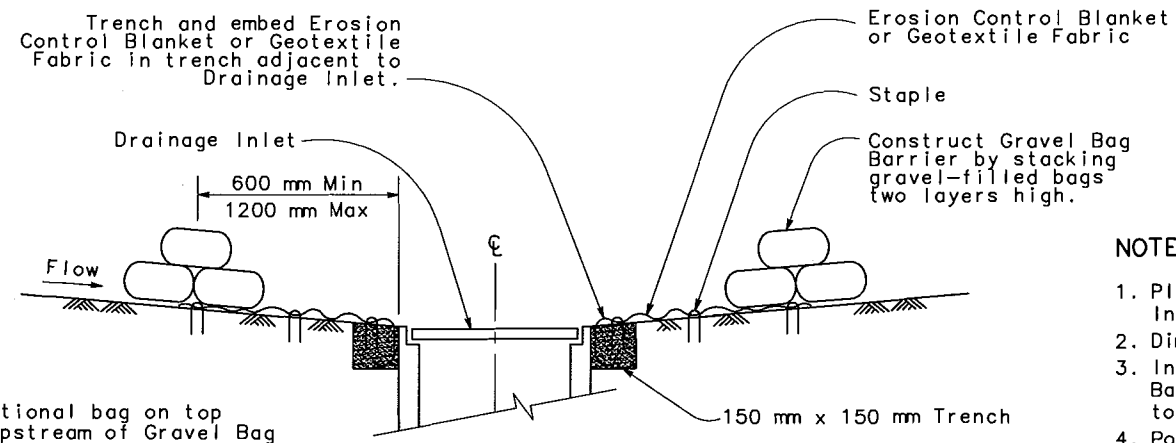
**GRAVEL BAG BARRIER (TYPE 3A) SPACING**

Slope of Roadway (percent)	1 to 4	4 to 6	6 to 8	8 to 10	10+
Interval between barriers (m)	30.0	22.5	15.0	7.5	4.0

For slope of less than 1%, install barriers only if erosion/sediment is prevalent.



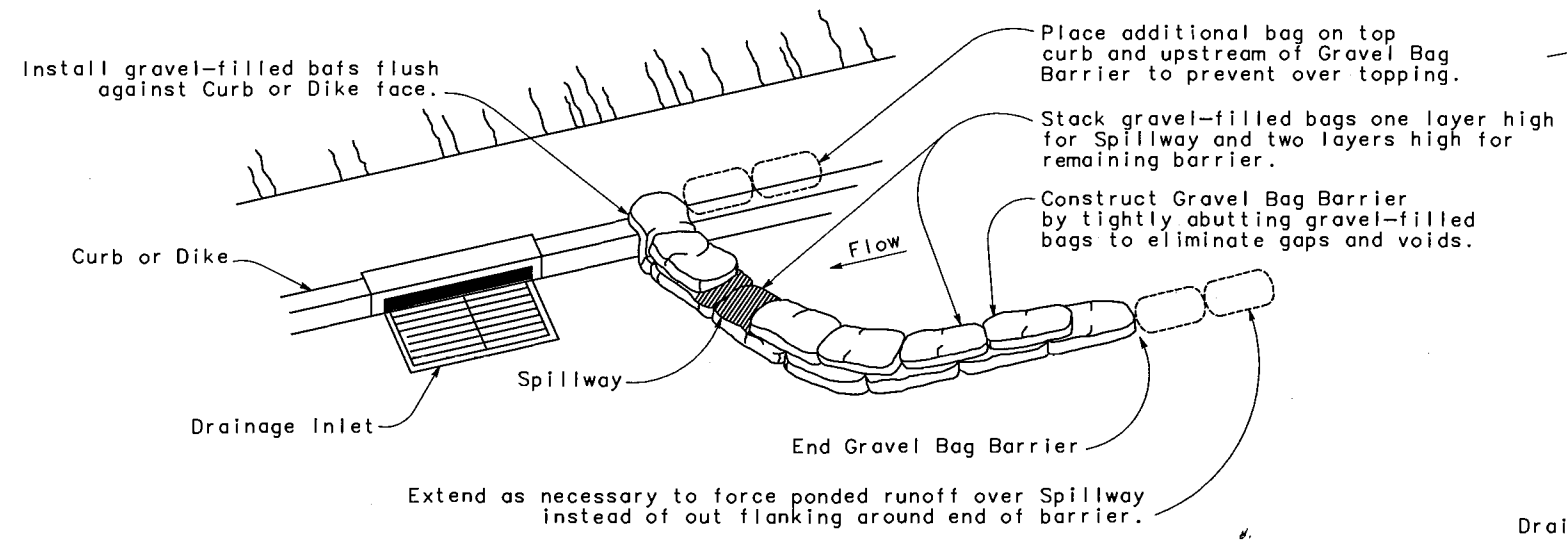
**CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BARRIER)**



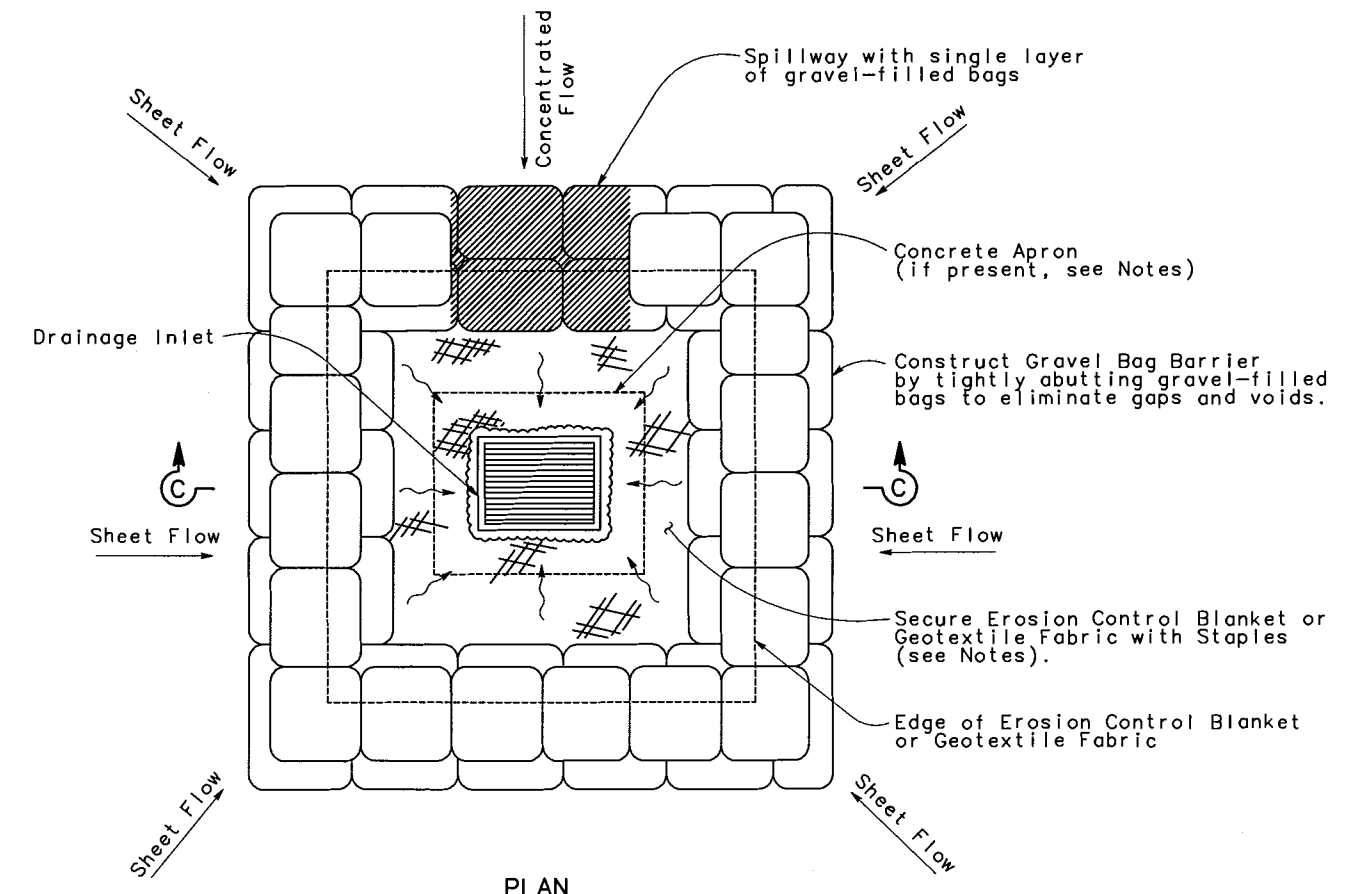
**SECTION C-C**

**NOTES**

1. Place safety cones adjacent to Drainage Inlet Protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of three Gravel Bag Barrier upstream of each Drainage Inlet to be protected.
4. Position Erosion Control Blanket or Geotextile Fabric at edge of Concrete Apron and secure in trench.
5. Erosion Control Blanket/Geotextile Fabric is not required if the area adjacent to the Drainage Inlet is vegetated or paved.

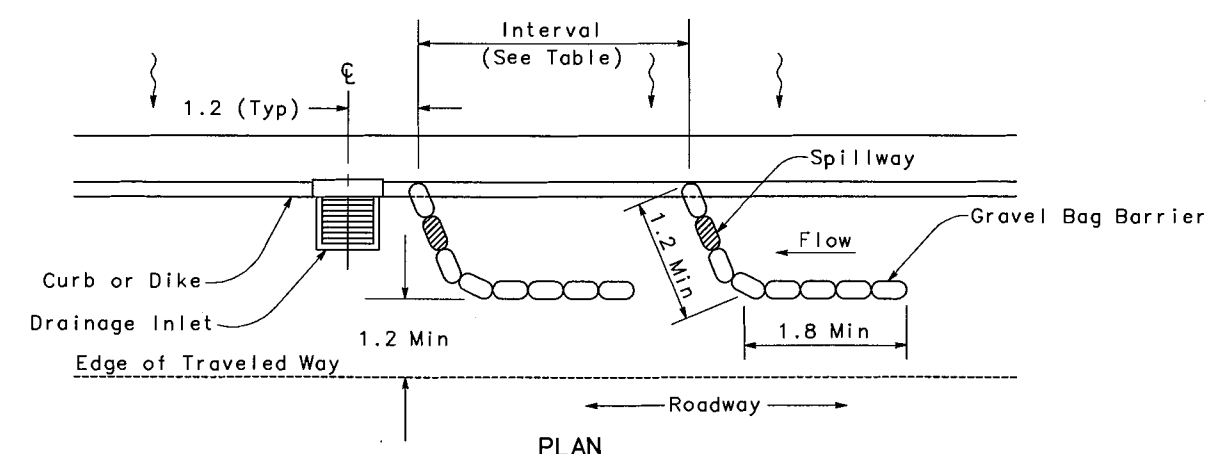


**PERSPECTIVE**



**PLAN**

**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B - GRAVEL BAG BARRIER)**



**PLAN**

**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A - GRAVEL BAG BARRIER)**

**WATER POLLUTION CONTROL DETAILS**

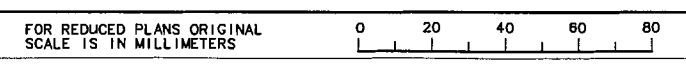
NO SCALE

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JULY 7, 2006**

**WPC-2**

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	50	

REGISTERED CIVIL ENGINEER	
PLANS APPROVAL DATE	
STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354  RAJAPPAN & MEYER CONSULTING ENGINEERS, INC. 1038 LEIGH AVENUE, SUITE 100 SAN JOSE, CALIFORNIA 95126	

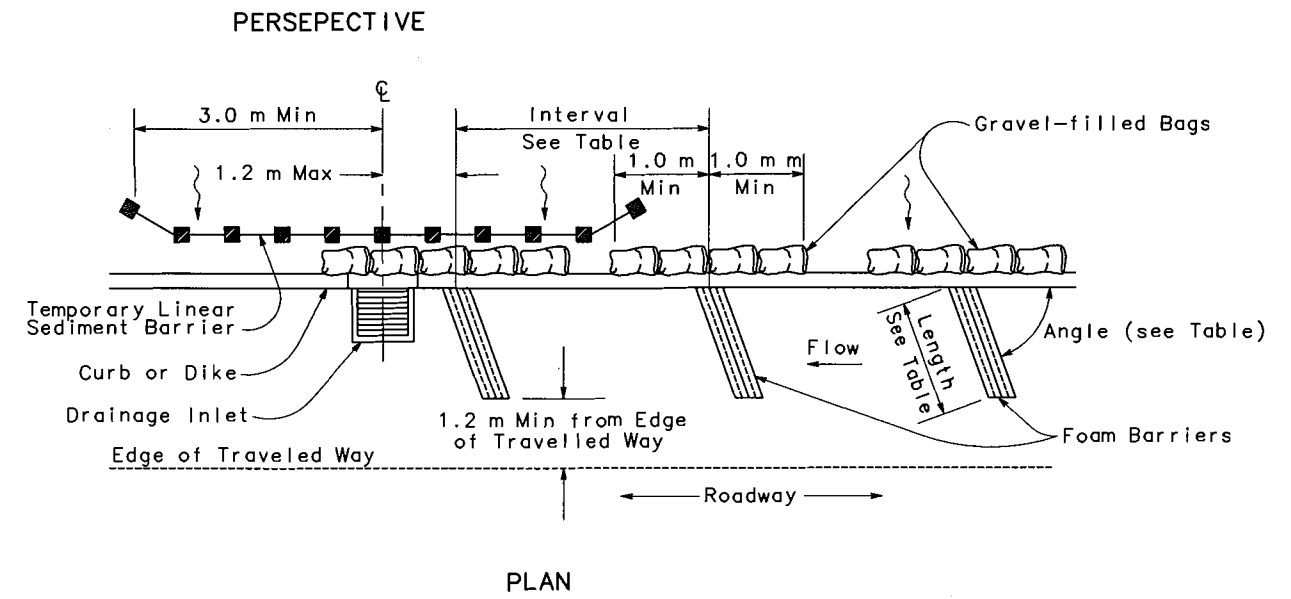
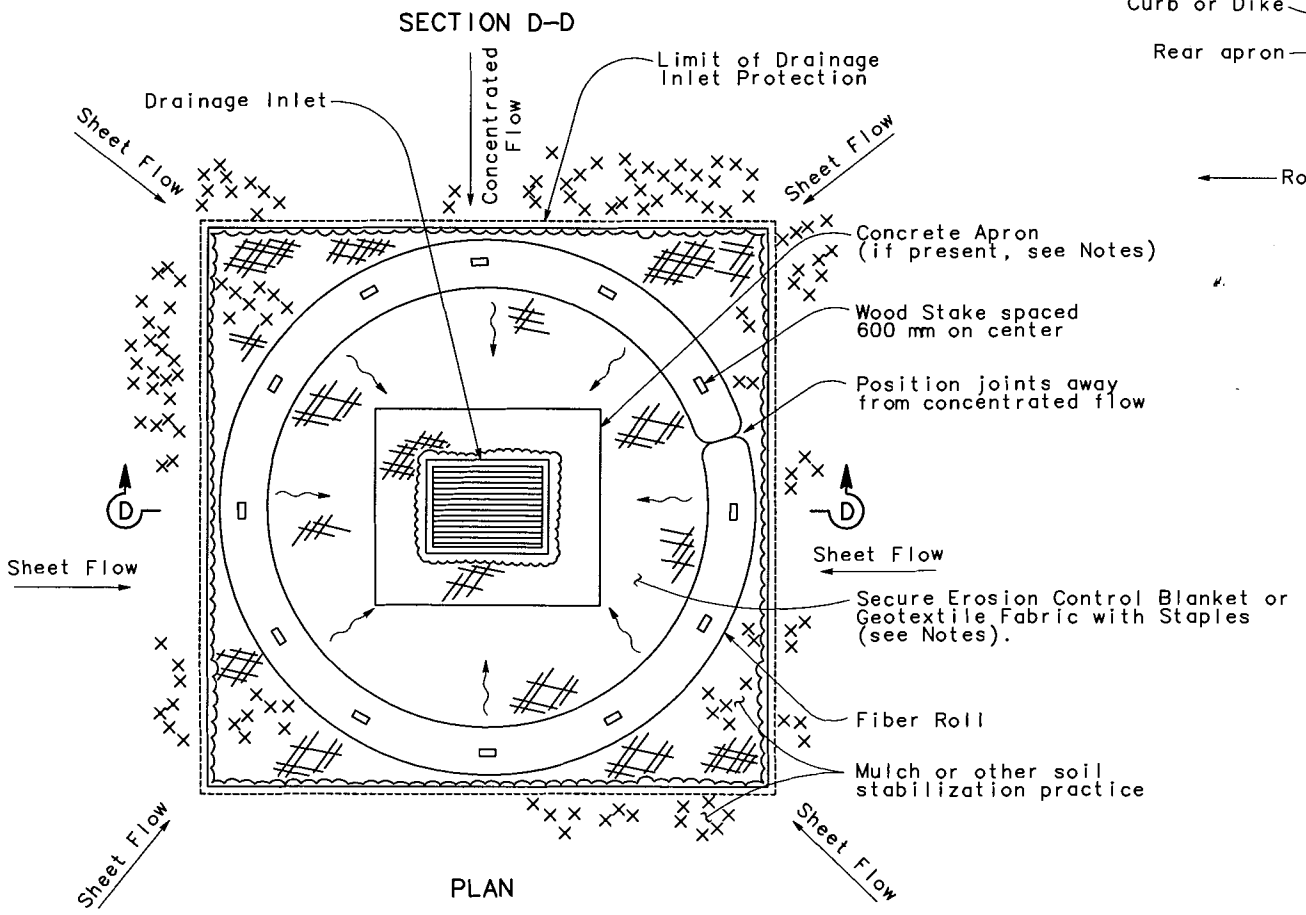
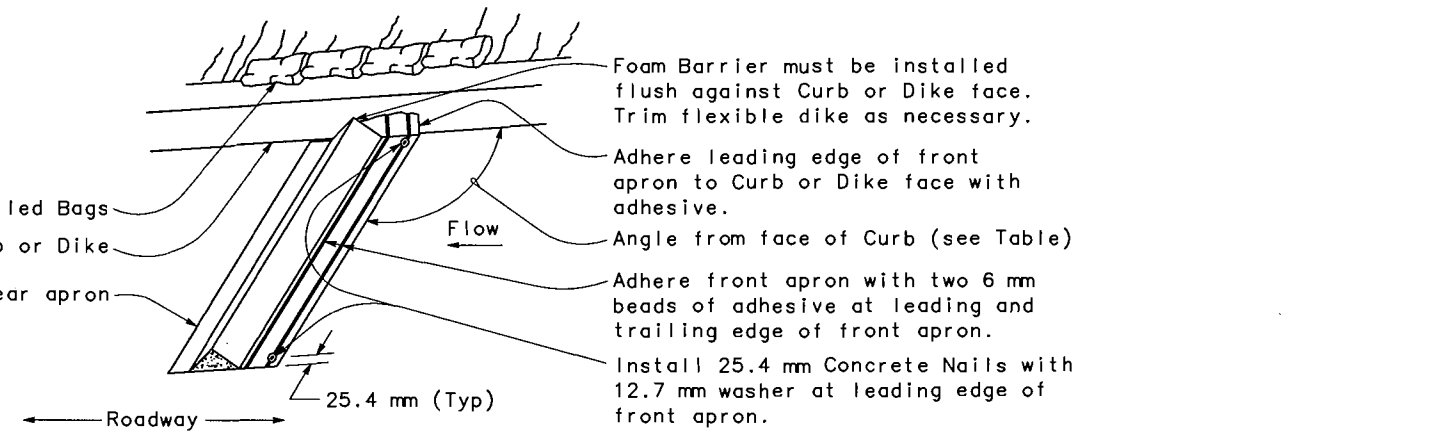
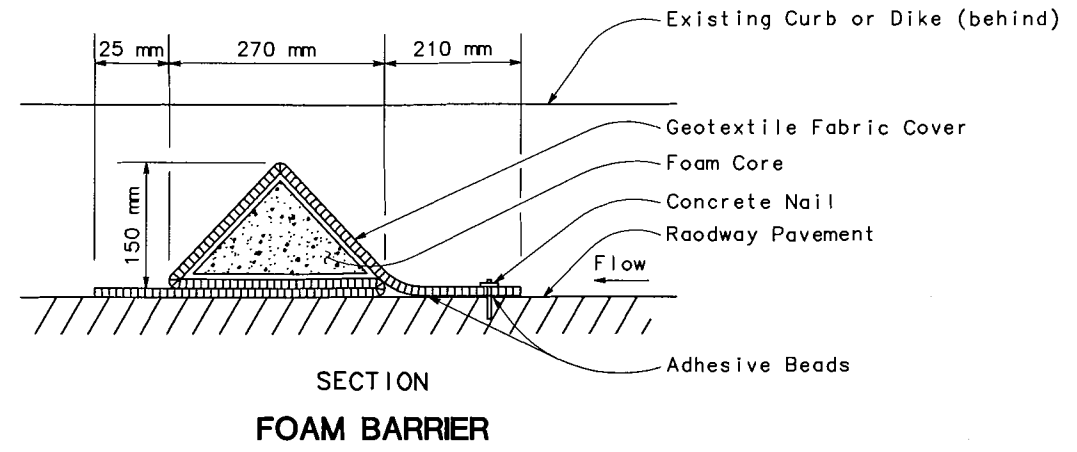
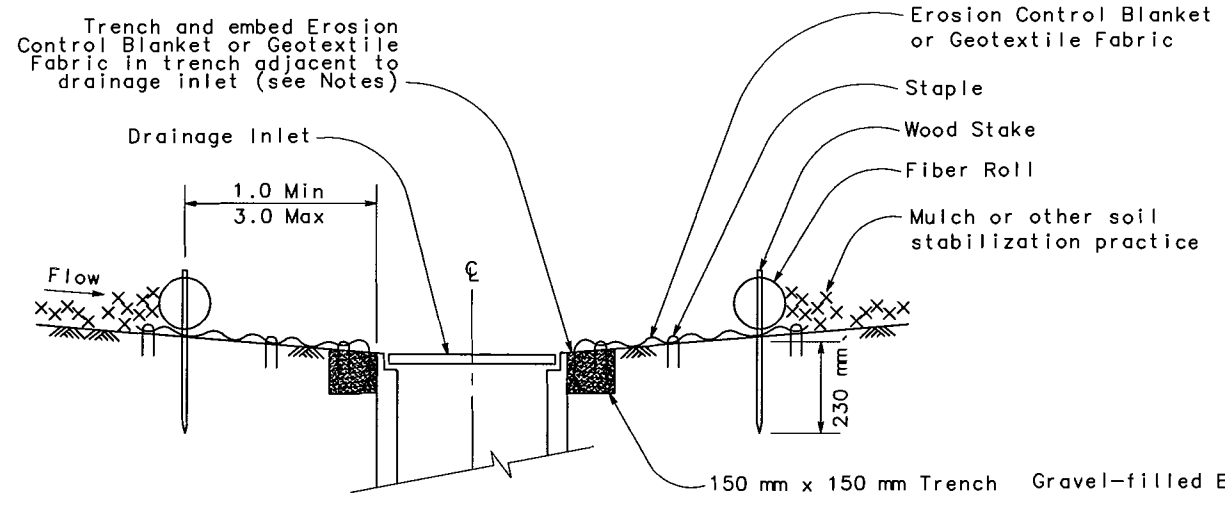
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**NOTES**

1. Temporary linear sediment barrier shall be Silt Fence, Fiber Roll, Gravel Bag Barrier, or other.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of three Gravel Bag Barrier upstream of each Drainage Inlet to be protected.
4. Position Erosion Control Blanket or Geotextile Fabric at edge of Concrete Apron and secure in trench.
5. Erosion Control Blanket/Geotextile Fabric is not required if the area adjacent to the Drainage Inlet is vegetated or paved.

**FOAM BARRIER SPACING**

Slope of Roadway (percent)	0 to 1	1 to 2	2 to 3	3 to 4	5+
Interval between barriers (m)	15.24	10.67	9.14	7.62	6.10
Angle from Face of Curb (degrees)	70°	70°	70°	45°	45°
Suggested barrier length (m)	1.82	1.82	1.82	1.82	1.82



**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A - FIBER ROLLS)**

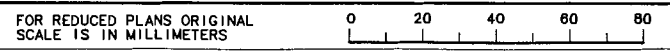
**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4B - FOAM BARRIER)**

**WATER POLLUTION CONTROL DETAILS**

**FINAL SUBMITTAL  
JULY 7, 2006**

**WPC-3**

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 CHECKED BY: BG 5/06  
 DATE REVISION BY: 5/06  
 DATE REVISION BY: 5/06



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 CHECKED BY  
 SM BG  
 DATE 5/06  
 DATE 5/06  
 REVISIONS  
 BY  
 DATE  
 REVISIONS

**NOTES**

1. Temporary linear sediment barrier shall be Silt Fence, Fiber Roll, Gravel Bag Barrier, or other.
2. Dimensions may vary to fit field conditions.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	51	

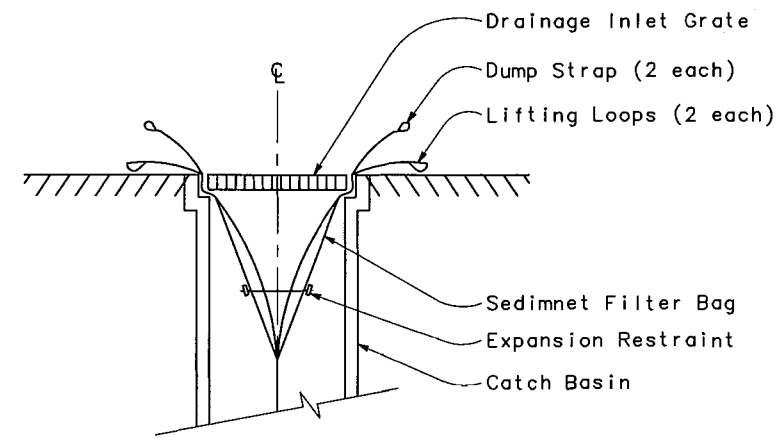
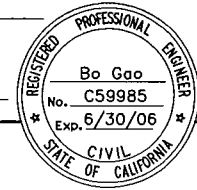
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

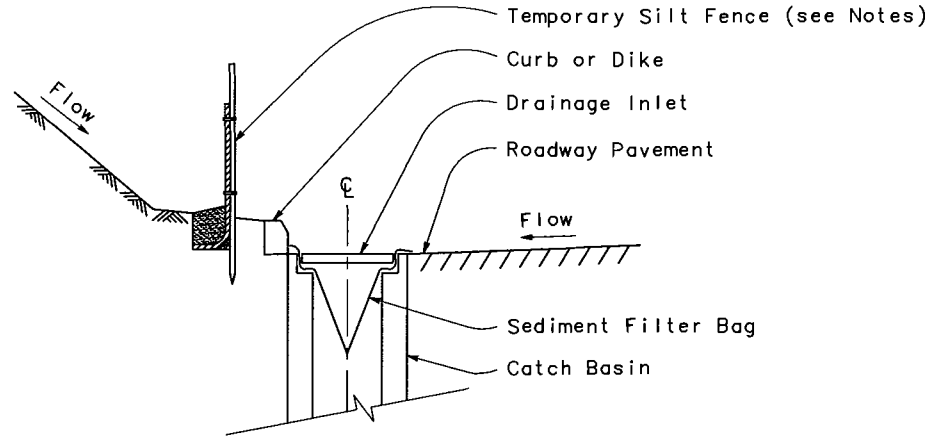
STANISLAUS  
 COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

RAJAPPAN & MEYER  
 CONSULTING ENGINEERS, INC.  
 1038 LEIGH AVENUE, SUITE 100  
 SAN JOSE, CALIFORNIA 95126

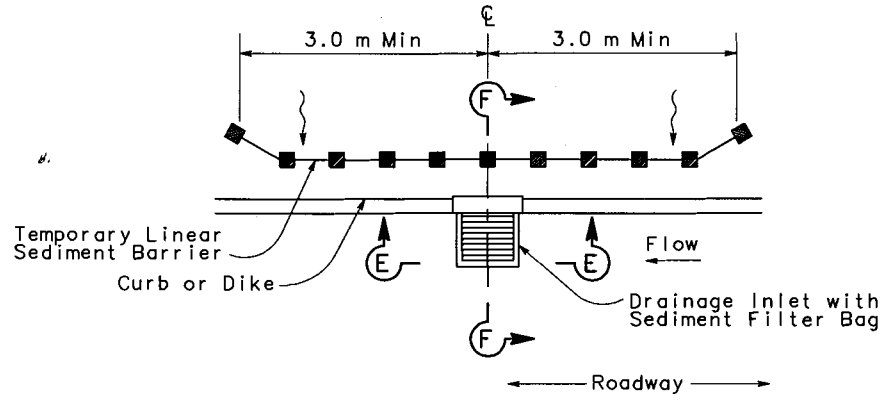
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SECTION E-E  
 SEDIMENT BAG FILTER



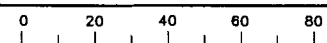
SECTION F-F



PLAN  
 TEMPORARY DRAINAGE INLET PROTECTION  
 (TYPE 5 - SEDIMENT FILTER BAG)

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**WATER POLLUTION CONTROL DETAILS**

NO SCALE

**FINAL SUBMITTAL  
 JULY 7, 2006**

**WPC-4**

CU 06251

EA 3A1101

DATE PLOTTED => \$DATE  
 \$TIME  
 LAST REVISION  
 9-3-04

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	52	



REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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**NOTES**

1. The stamped concrete impression shall be legible and free of blemishes.
2. The dimensions of the drainage inlet marker shall vary no more than 25 mm in width and length.
3. The drainage inlet marker shall be centered opposite the drainage facility.

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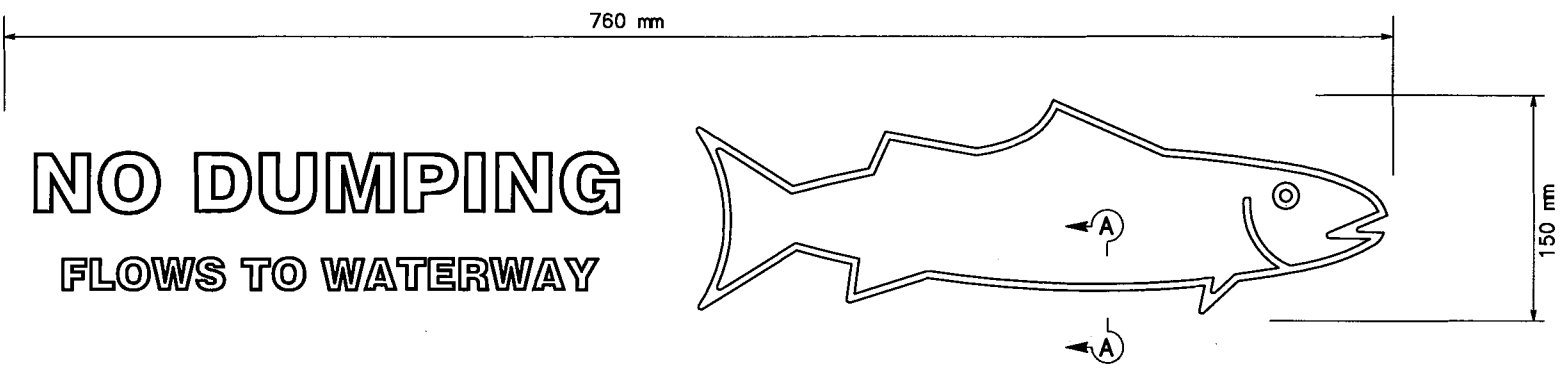
DESIGN OVERSIGHT  
CHRISTINA HIBBARD

CALCULATED/DESIGNED BY  
SM

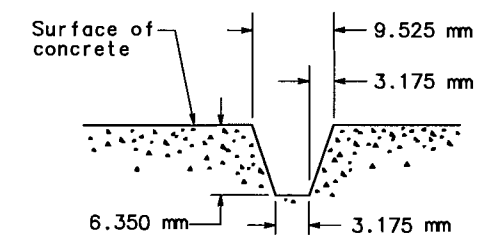
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BG

DATE REVISIED BY  
DATE

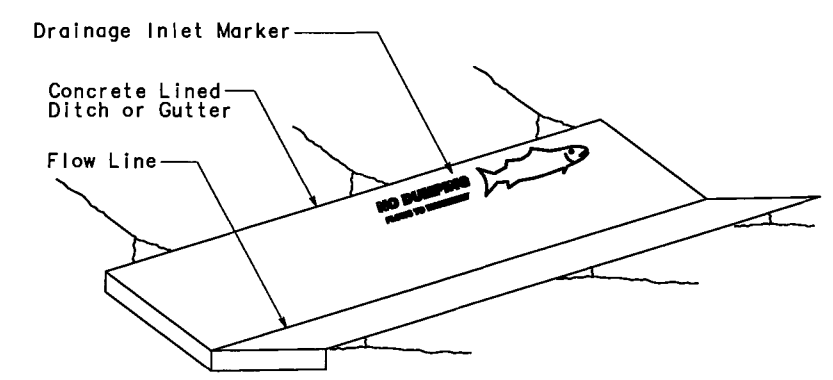
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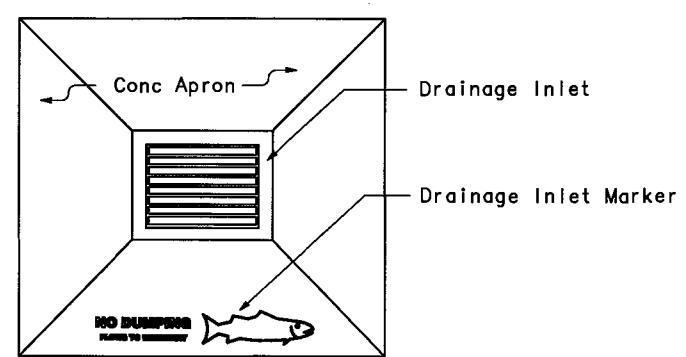
PLAN  
DRAINAGE INLET MARKER DETAIL  
STAMPED CONCRETE



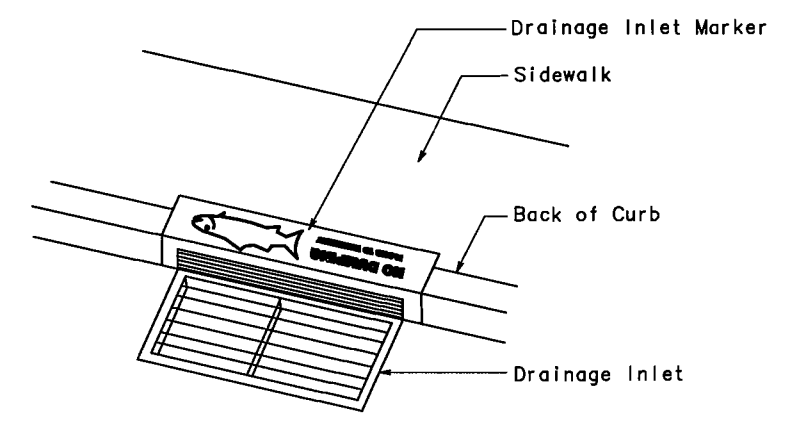
SECTION A-A  
STAMPED CONCRETE IMPRESSION



PERSPECTIVE  
DRAINAGE INLET MARKER AT  
CONCRETE LINED DITCH



PLAN  
DRAINAGE INLET MARKER AT  
CONCRETE DRAINAGE APRON



PERSPECTIVE  
DRAINAGE INLET MARKER AT DROP INLET

**WATER POLLUTION CONTROL DETAILS**

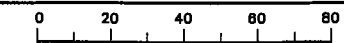
NO SCALE

WPC-5

FINAL SUBMITTAL  
JULY 7, 2006

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DATE PLOTTED => 8/1/06  
LAST REVISION 9-3-04

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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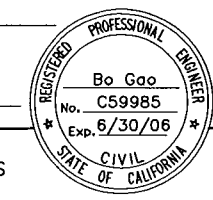
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
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**NOTES**

- All Ties Are to the Center of the Base.
- Existing Drainage Locations Are Approximate Only. Contractor to Verify Location and Elevation Before Modifying Existing Drainage Facilities.
- Top of Gate Elevations Include Inlet Depression.
- For Inlets Adjacent to Dikes, Curbs, and Walls, Top of Gate Elevations are Equivalent to the Gutter Flowline Elevations. All Other Top of Gate Elevations Are Elevations Located at the Center of Gate.
- Contractor Shall Verify All Controlling Field Dimensions Before Ordering or Fabricating Any Material.
- For Infiltration Basin, See Contour Grading and Drainage Details Sheets.
- For Vertical Datum, See Sheet L-1.

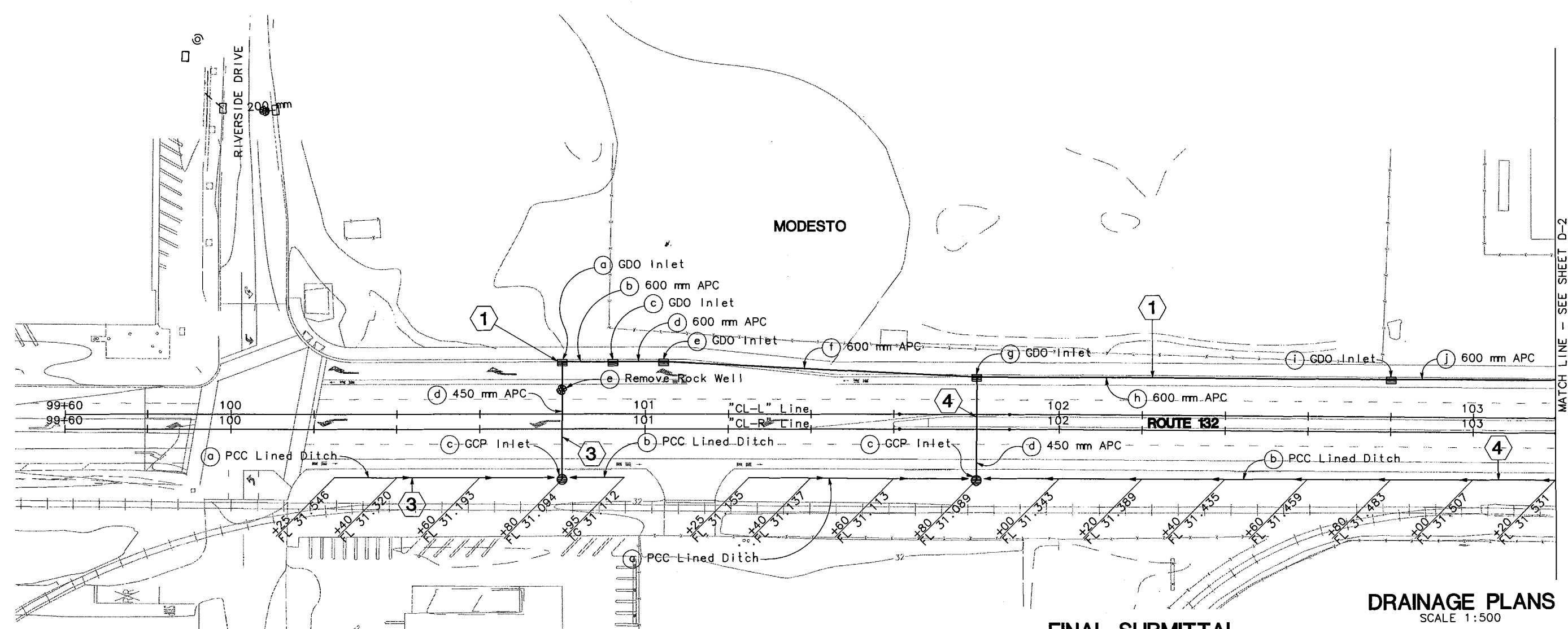
**LEGEND**

- |   |                              |         |                          |
|---|------------------------------|---------|--------------------------|
| # | Drainage System Number       | —       | Proposed Culvert         |
| x | Drainage Unit                | —>      | PCC Lined Ditch          |
| ▬ | Proposed Inlet               | - - -   | Existing Culvert         |
| ● | Proposed GCP Inlet           | ///-/// | Abandon Existing Culvert |
| ⊙ | Proposed G2 (Modified) Inlet | * * *   | Remove Existing Culvert  |
| ▷ | Proposed FES                 | □       | Existing Inlet           |
| ⊗ | Rock Slope Protection        | ⊙       | Existing Manhole         |
|   |                              | ●       | Existing Rock Well       |

**ABBREVIATIONS**

- SGD Standard Gutter Depression  
 TOC Top of Cover  
 RSP Rock Slope Protection

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 DESIGN OVERSIGHT  
 CHRISTINA HIBBARD  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE REVISED BY  
 DATE REVISED BY  
 SM BG  
 5/06 5/06  
 5/06 5/06

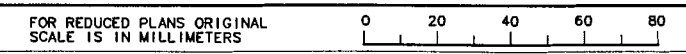


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**FINAL SUBMITTAL**  
**JULY 7, 2006**

**DRAINAGE PLANS**  
 SCALE 1:500

D-1



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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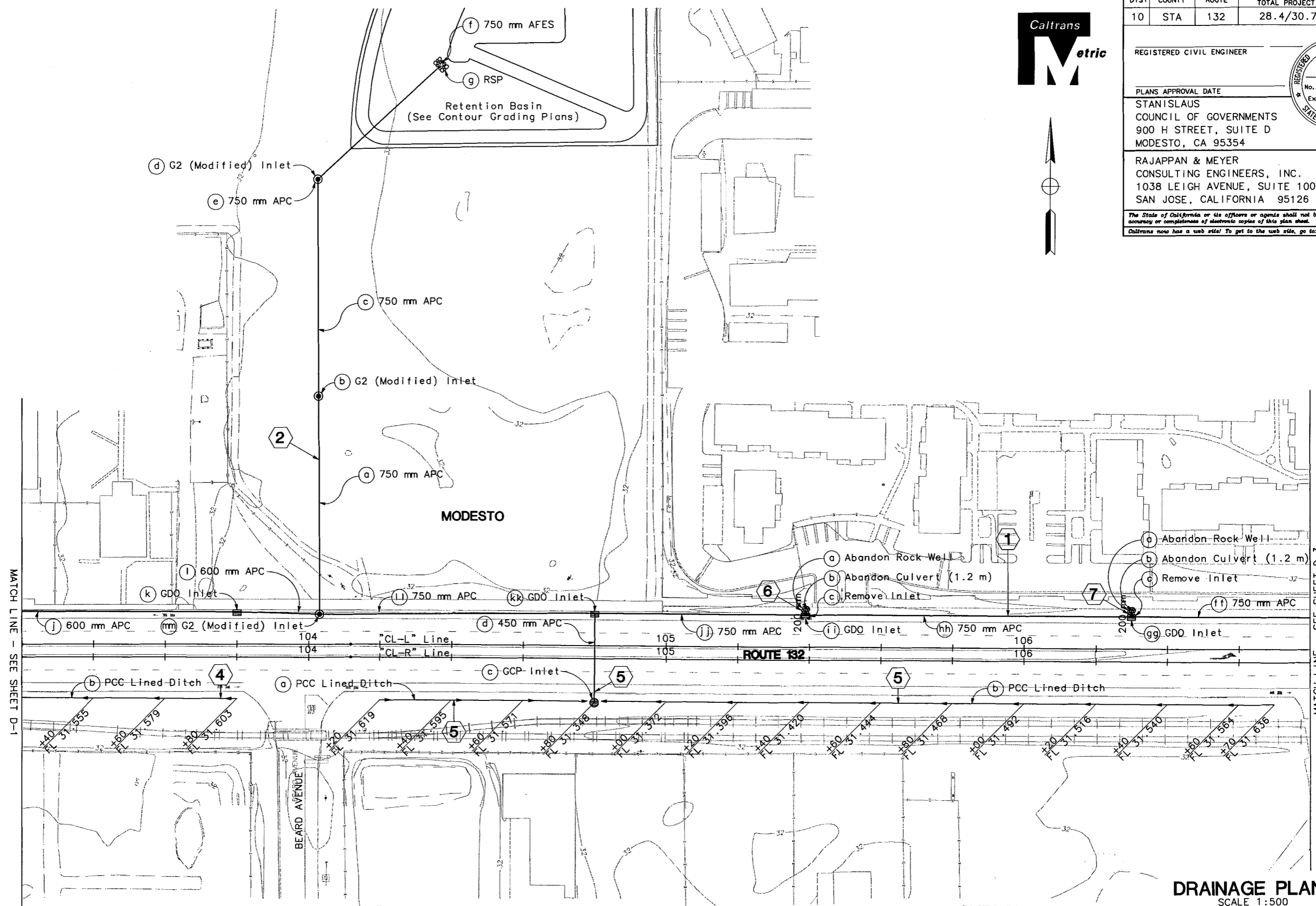
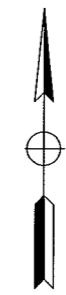
REGISTERED CIVIL ENGINEER



PLANS APPROVAL DATE  
 STANISLAUS  
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 900 H STREET, SUITE D  
 MODESTO, CA 95354

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CHECKED BY	BG	5/06	DATE	REVISED

DESIGN OVERSIGHT  
 CHRISTINA HIBBARD

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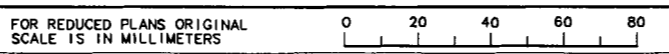
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FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET D-1.

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**JULY 7, 2006**

**DRAINAGE PLANS**  
 SCALE 1:500

D-2



USERNAME => \$USER  
 DGN FILE => \$REQUEST

CU 06251

EA 3A1101

DATE PLOTTED => \$DATE  
 \$TIME  
 LAST REVISION  
 9-3-04



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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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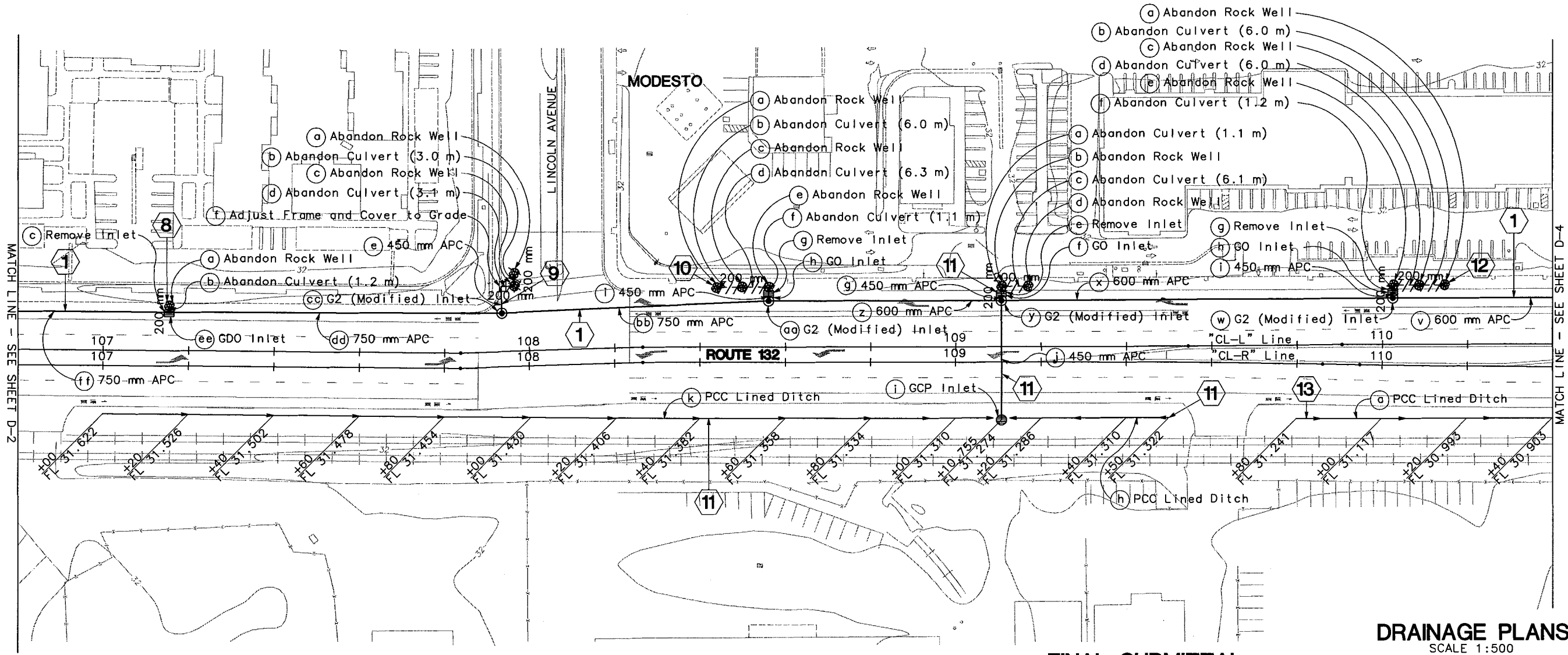
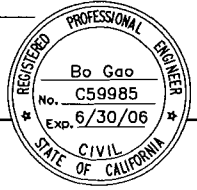
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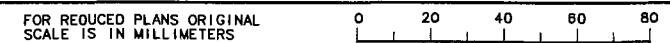
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**JULY 7, 2006**

**DRAINAGE PLANS**  
 SCALE 1:500

D-3



USERNAME => \$USER  
 DGN FILE => \$REQUEST

CU 06251

EA 3A1101

DATE PLOTTED => \$DATE  
 \$TIME  
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 9-3-04

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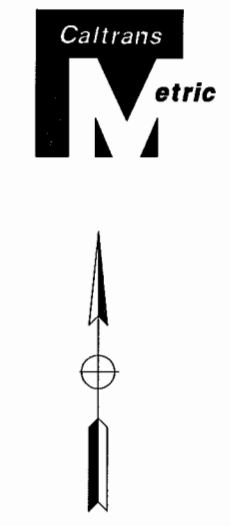
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PLANS APPROVAL DATE

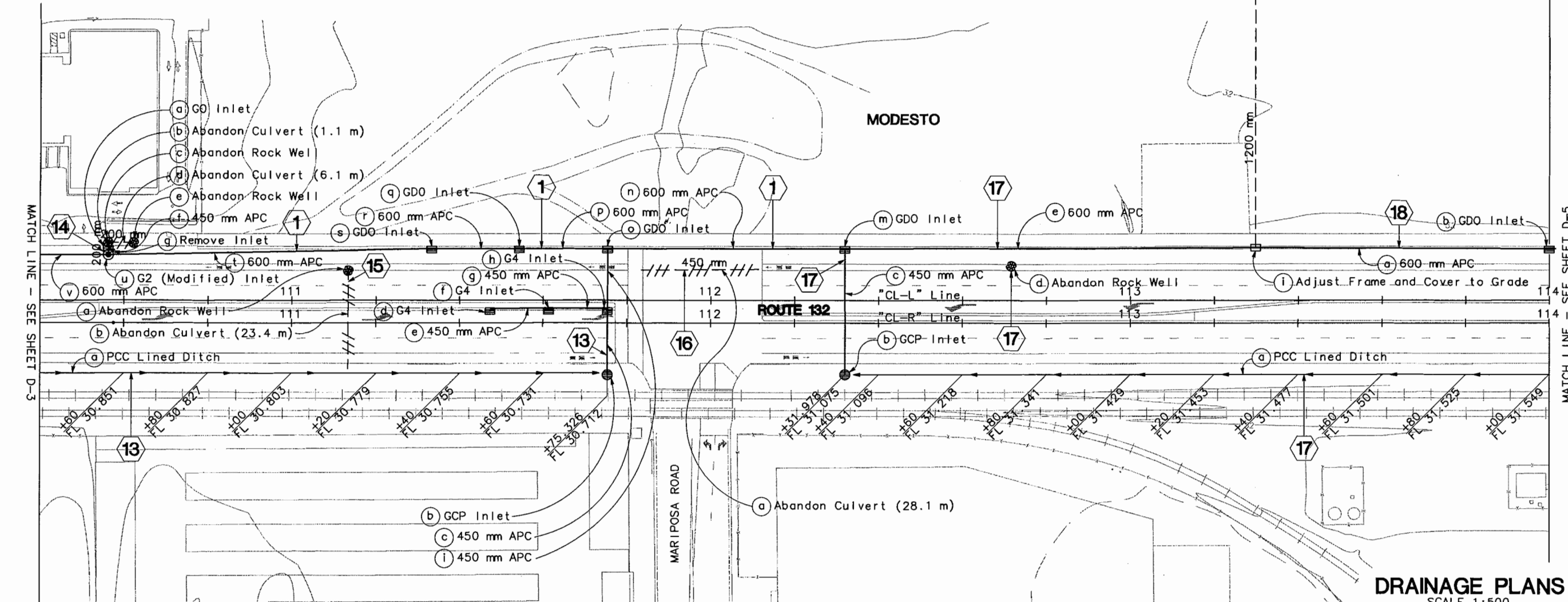
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MODESTO, CA 95354

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Christina Hibbard	CHRISTINA HIBBARD	5/06	SM
	CHECKED BY	5/06	BG
	DATE		
	REVISOR		



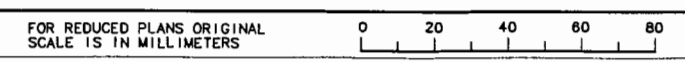
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**JULY 7, 2006**

**DRAINAGE PLANS**  
SCALE 1:500

**D-4**



USERNAME => BUSER  
DCN FILE => REQUEST

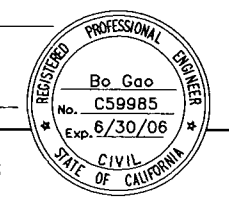
CU 06251 EA 3A1101

DATE PLOTTED => DATE  
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REGISTERED CIVIL ENGINEER



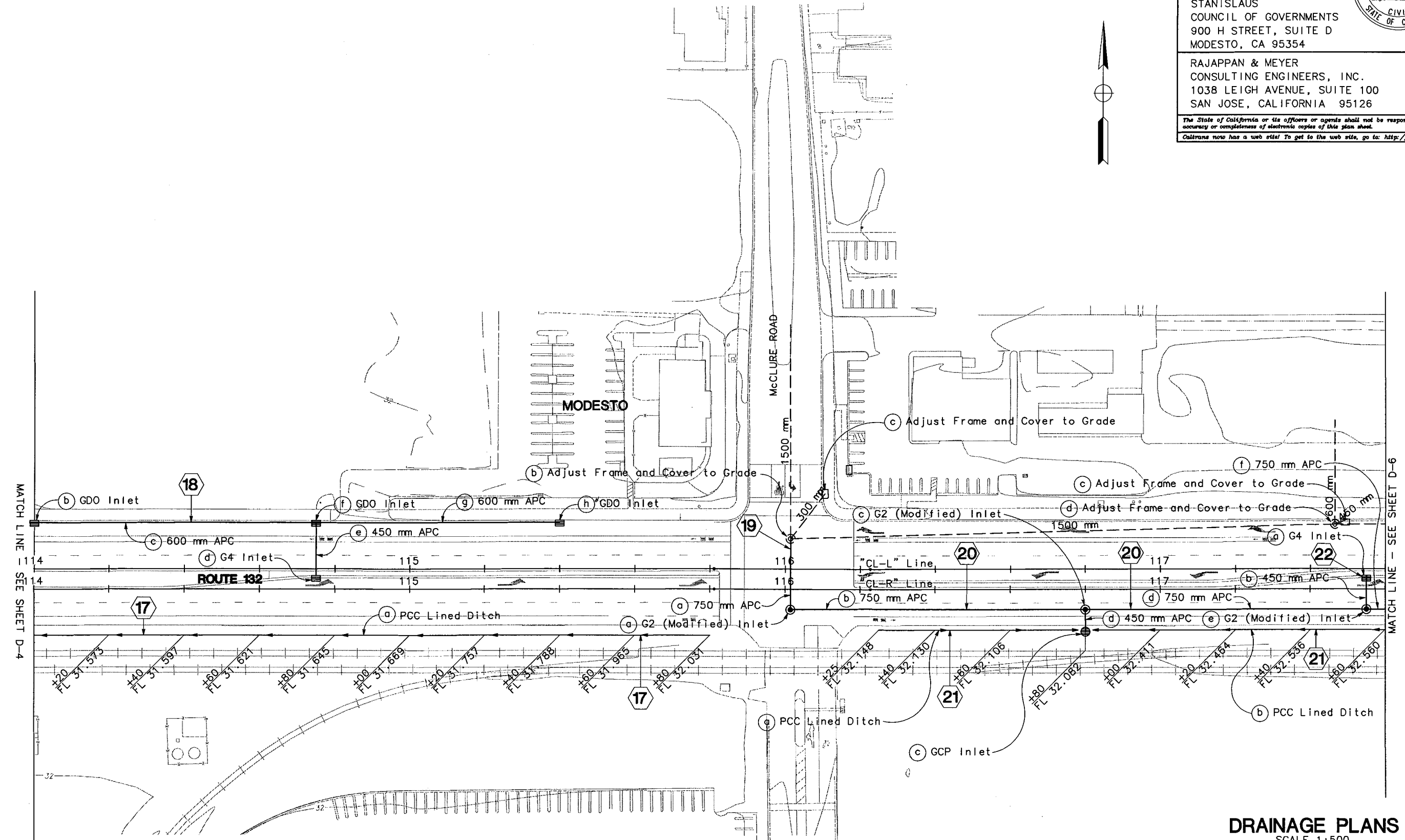
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 STANISLAUS  
 COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

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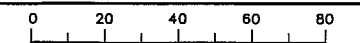


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN OVERSIGHT	CALCULATED/DESIGNED BY	REVISOR	DATE
Christina Hibbard	CHRISTINA HIBBARD	SM	5/06	5/06
		CHECKED BY	REVISOR	DATE
		BG	5/06	



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**JULY 7, 2006**

**DRAINAGE PLANS**  
 SCALE 1:500

**D-5**

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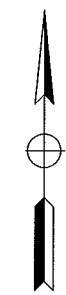
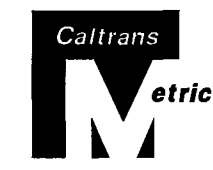
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 9-3-04

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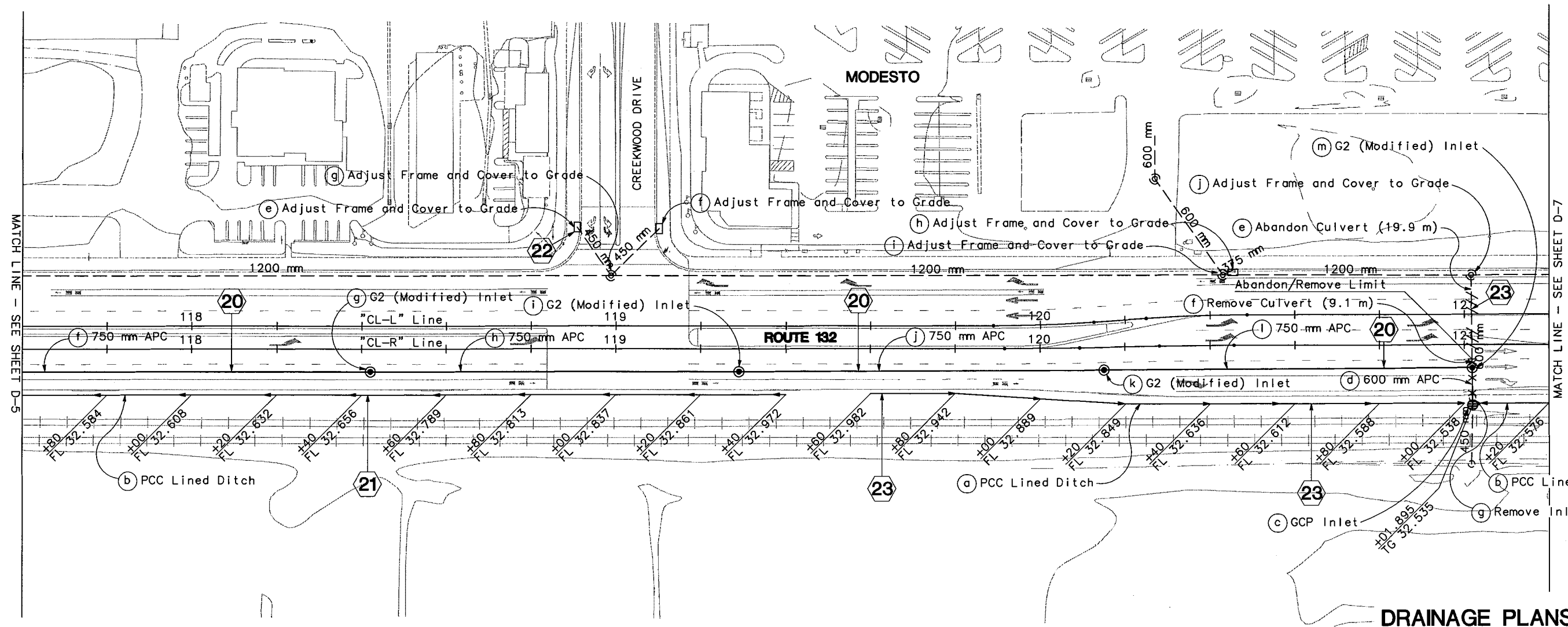
  

REGISTERED CIVIL ENGINEER	
PLANS APPROVAL DATE	
STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354	
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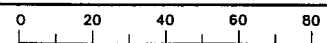
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**JULY 7, 2006**

**DRAINAGE PLANS**  
SCALE 1:500

**D-6**

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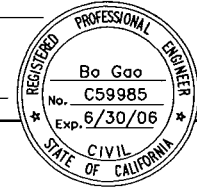
CU 06251

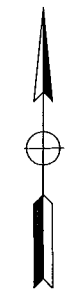
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LAST REVISION  
9-3-04

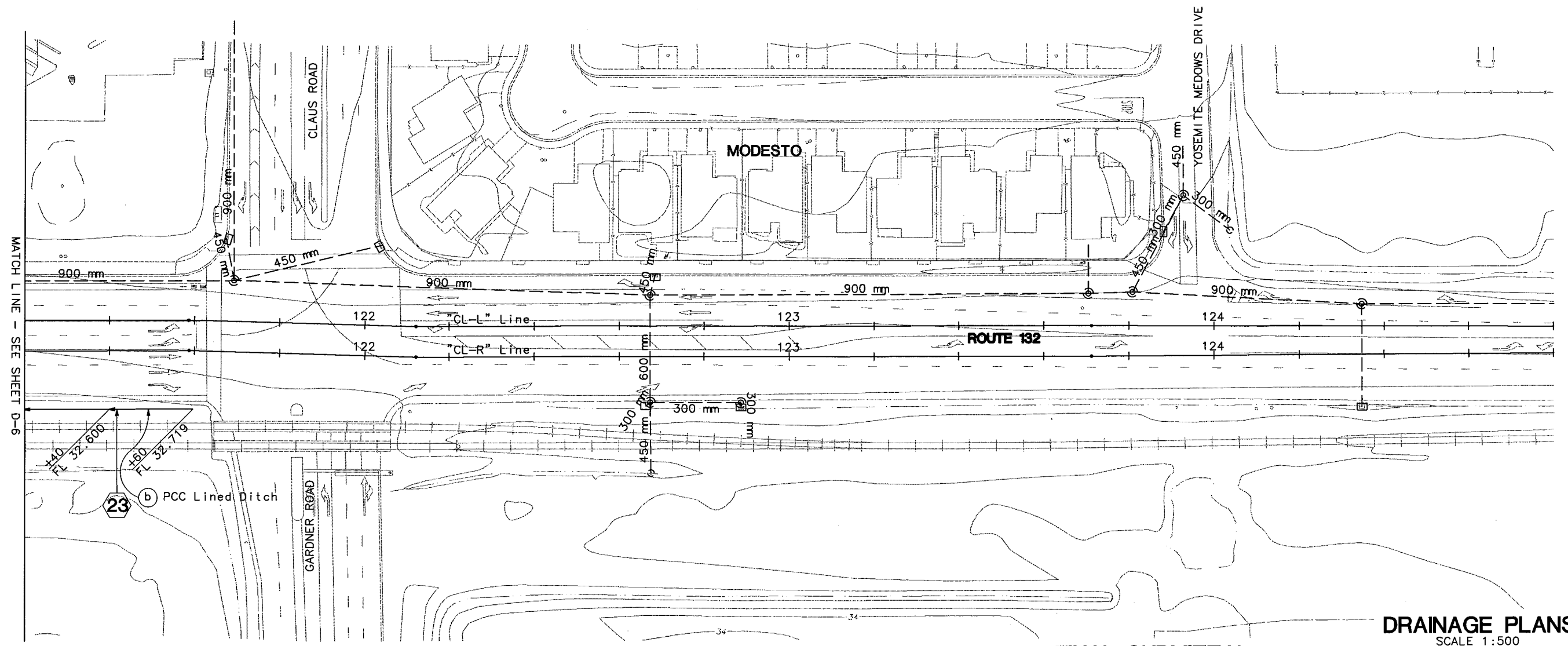
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REGISTERED CIVIL ENGINEER	
PLANS APPROVAL DATE	
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Christina Hibbard	CHRISTINA HIBBARD	CHECKED BY	BC	5/06	DATE	REVISOR



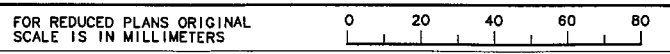
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**JULY 7, 2006**

**DRAINAGE PLANS**  
 SCALE 1:500

D-7



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CU 06251

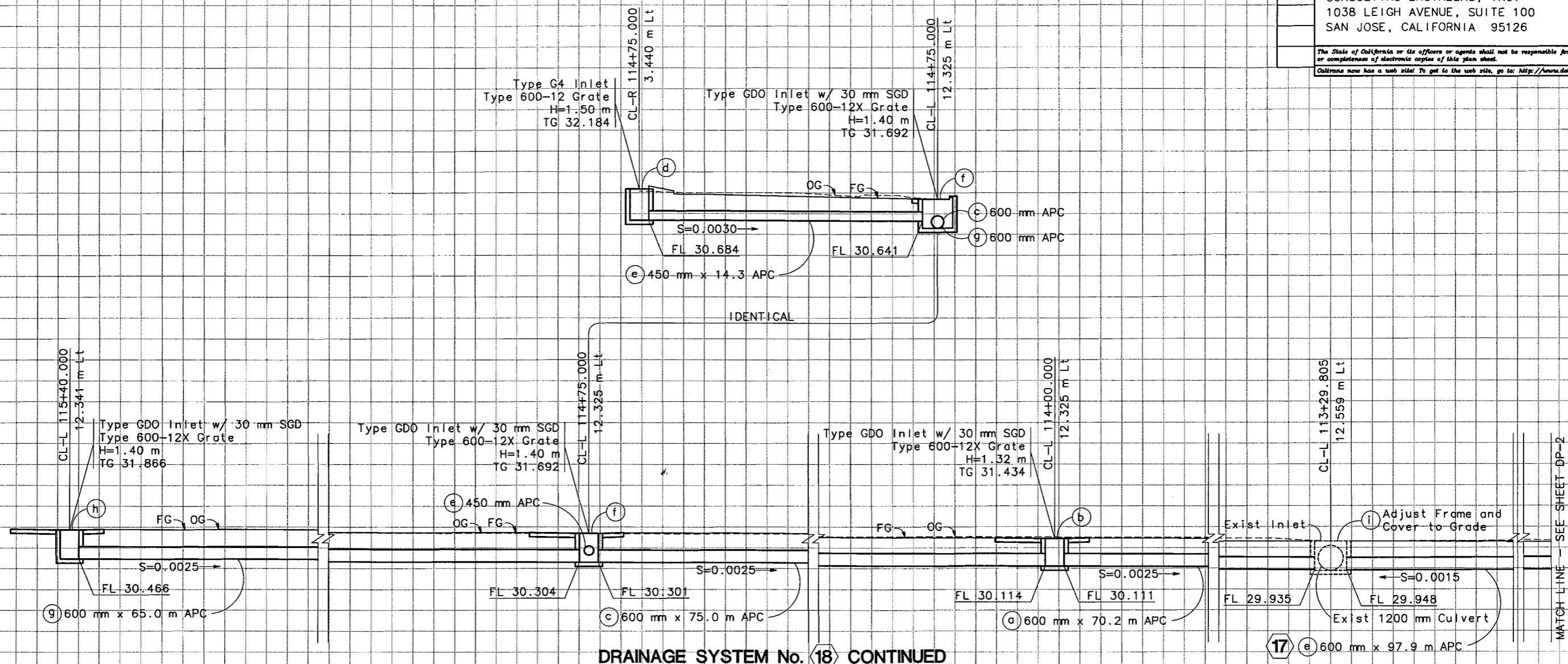
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DATE PLOTTED => \$DATE \$TIME  
 LAST REVISION  
 9-3-04

DATE	REVISED	BY	DATE	REVISED	BY
	SM 5/06			5/06	
CALCULATED/DESIGNED	BY	CHECKED	BY	DATE	REVISED
DESIGN OVERSIGHT	CHRISTINA HIBBARD				
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION					



DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	60	
REGISTERED CIVIL ENGINEER					
PLANS APPROVAL DATE					
STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354					
RAJAPPAN & MEYER CONSULTING ENGINEERS, INC. 1038 LEIGH AVENUE, SUITE 100 SAN JOSE, CALIFORNIA 95126					
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DRAINAGE SYSTEM No. 18 CONTINUED

17 (e) 600 mm x 97.9 m APC

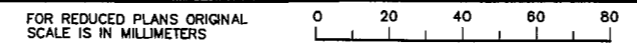
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 JULY 7, 2006

DRAINAGE PROFILES  
 SCALE 1:100

DP-1

Station	
Exc	
Emb	



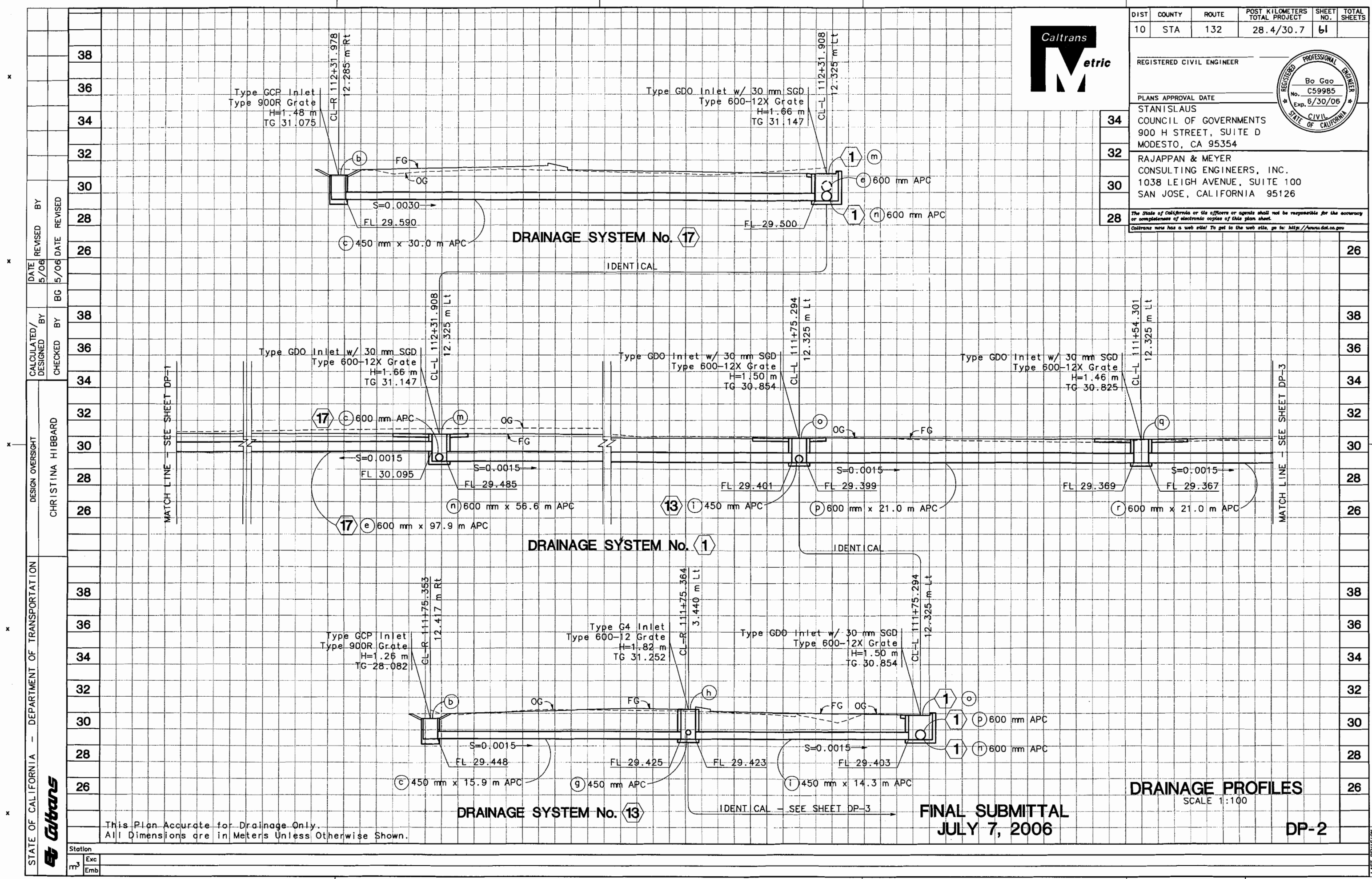
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DATE PLOTTED -> \$DATE  
 LAST REVISION -> 10-25-01





DIST	COUNTY	ROUTE	POST MILEMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	61	

REGISTERED CIVIL ENGINEER	
PLANS APPROVAL DATE	
34	STANISLAUS
32	COUNCIL OF GOVERNMENTS
30	900 H STREET, SUITE D
28	MODESTO, CA 95354
	RAJAPPAN & MEYER
	CONSULTING ENGINEERS, INC.
	1038 LEIGH AVENUE, SUITE 100
	SAN JOSE, CALIFORNIA 95126

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DATE	CHECKED	BY
5/06		

DESIGN OVERSIGHT
CHRISTINA HIBBARD

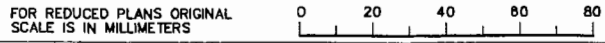
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DRAINAGE PROFILES  
SCALE 1:100

DP-2



USERNAME -> \$USER  
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DATE PLOTTED -> \$DATE  
LAST REVISION  
10-25-01

STATION	DATE	BY	REVISION	DESIGN OVERSIGHT	CALCULATED/DESIGNED BY	CHECKED BY	SM	BG	DATE	DIST	COUNTY	RDUTE	POST TOTAL PROJECT	KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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36																
34																
32																
30																
28																
26																
38																
36																
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34																
32																
30																
28																
26																



DIST	COUNTY	RDUTE	POST TOTAL PROJECT	KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	62		

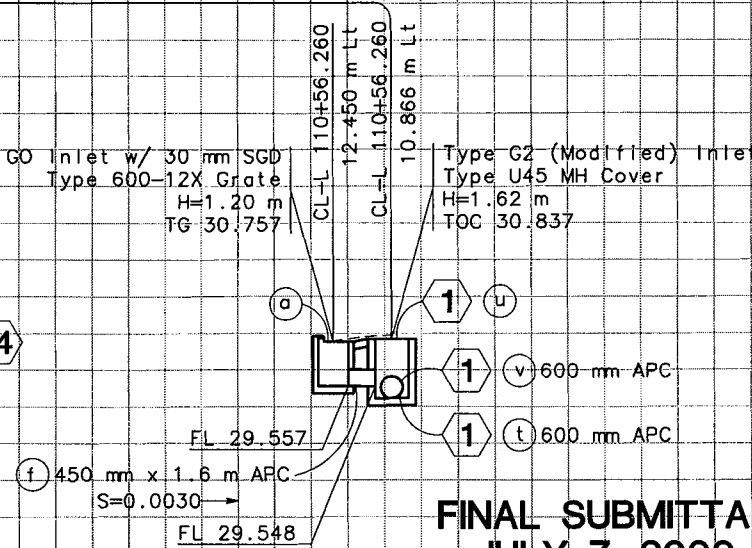
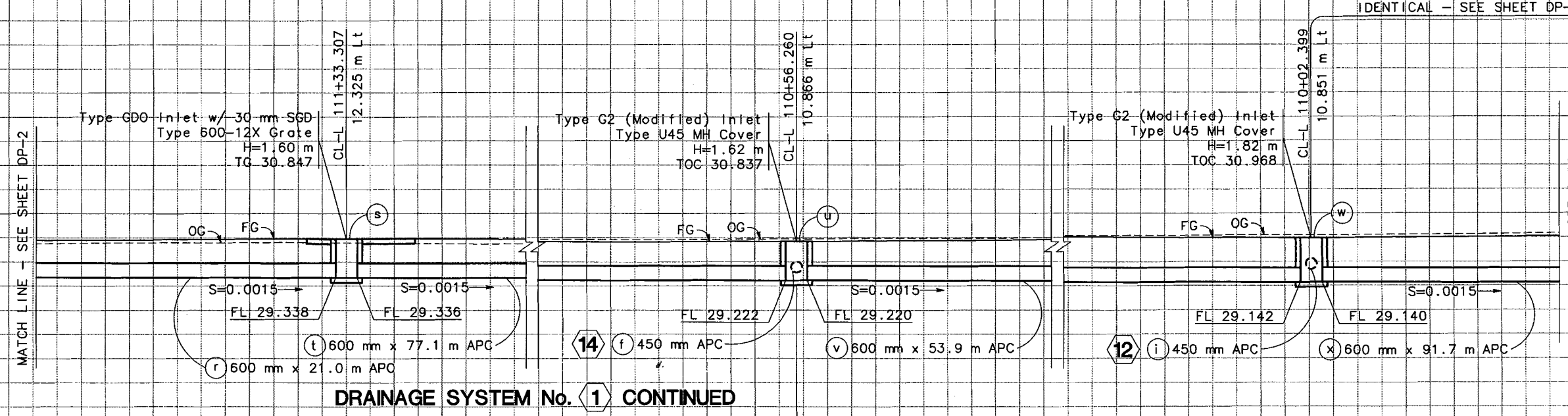
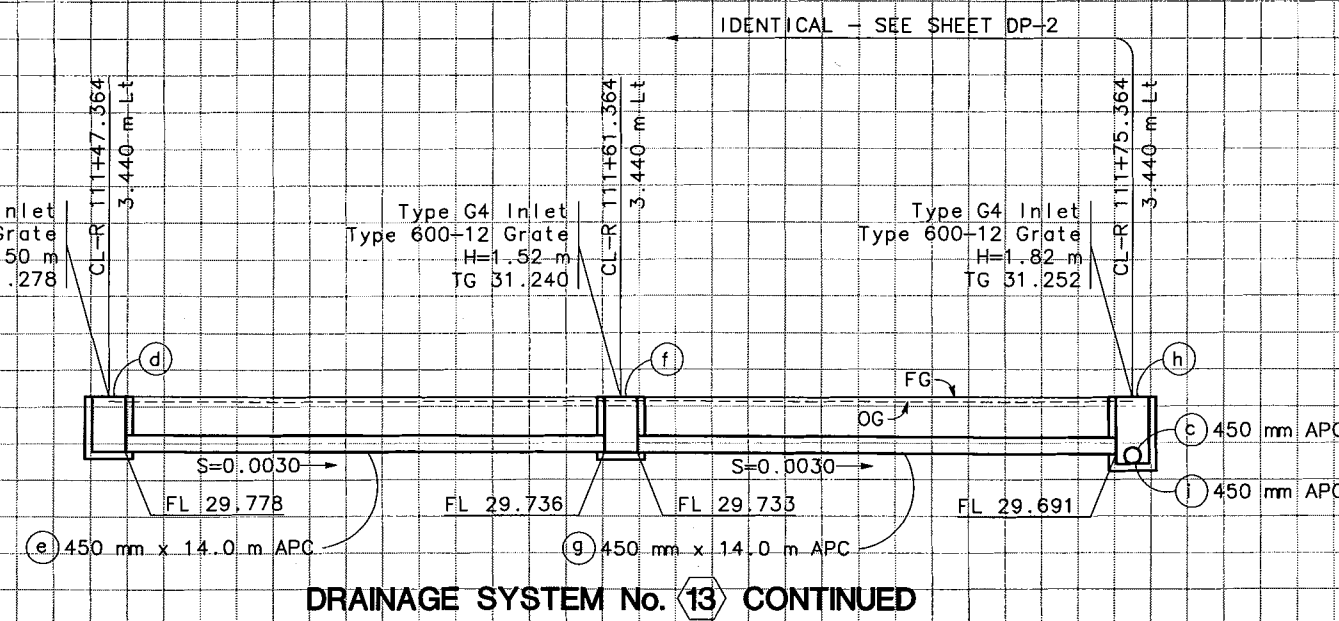
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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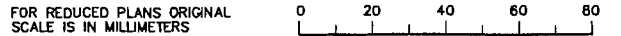


**DRAINAGE PROFILES**  
SCALE 1:100

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**DP-3**

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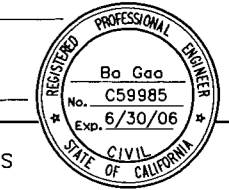
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DGN FILE => REQUEST

CU 06251 EA 3A1101

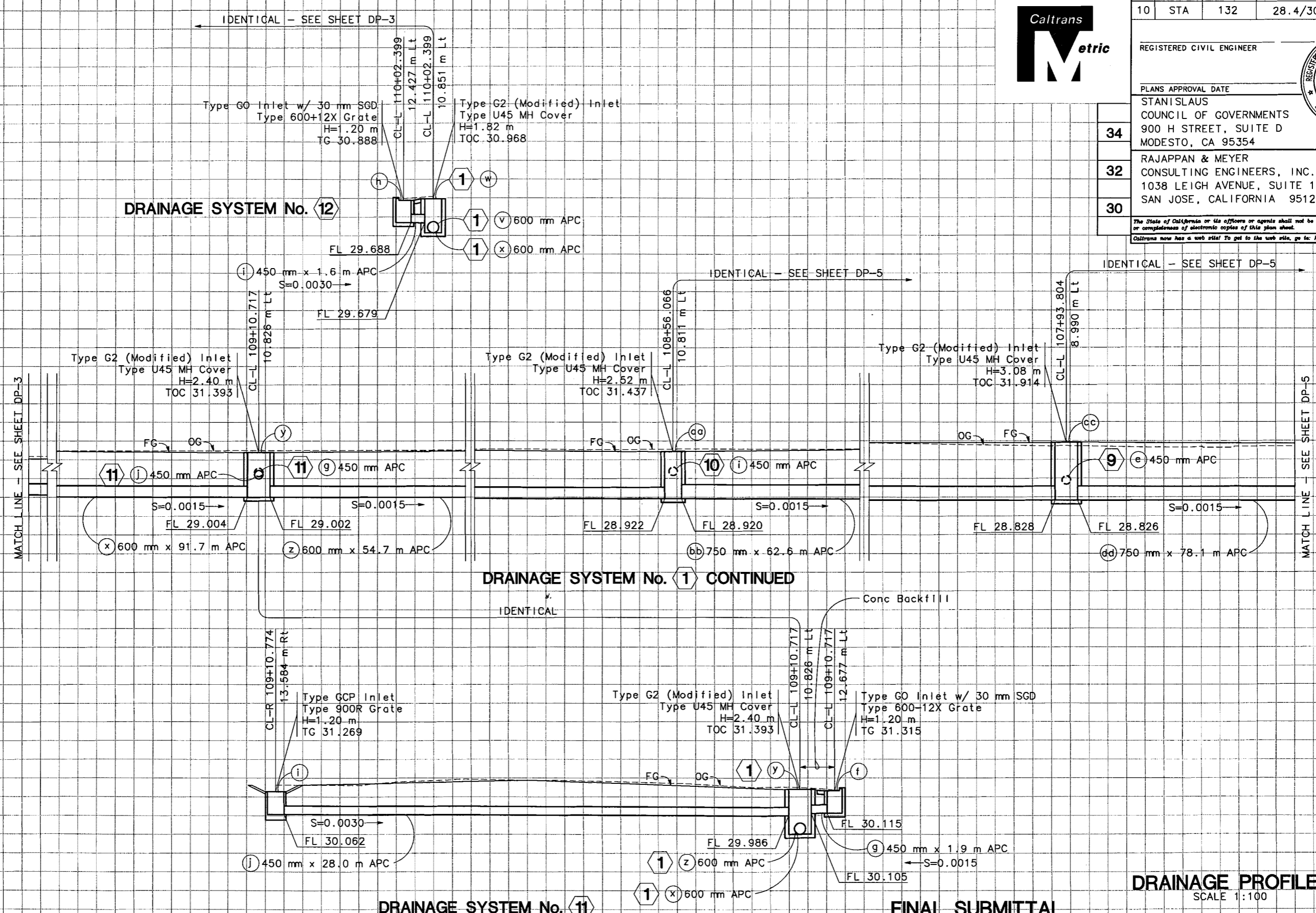
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LAST REVISION 10-25-01



DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	63	

REGISTERED CIVIL ENGINEER	
PLANS APPROVAL DATE	
STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354	
RAJAPPAN & MEYER CONSULTING ENGINEERS, INC. 1038 LEIGH AVENUE, SUITE 100 SAN JOSE, CALIFORNIA 95126	

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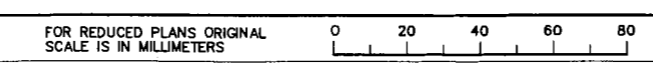
**DRAINAGE PROFILES**  
SCALE 1:100

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**DP-4**

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN OVERSIGHT	CHRISTINA HIBBARD	DATE REVISION	BY
			SM 15/06	BG 15/06
Caltrans	CALCULATED/DESIGNED	CHECKED	DATE	BY
			SM 15/06	BG 15/06
Station	Exc	Emb	DATE	BY
			SM 15/06	BG 15/06







DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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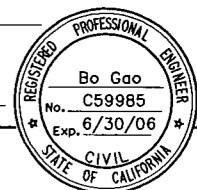
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT: CHRISTINA HIBBARD

DATE REVISION BY

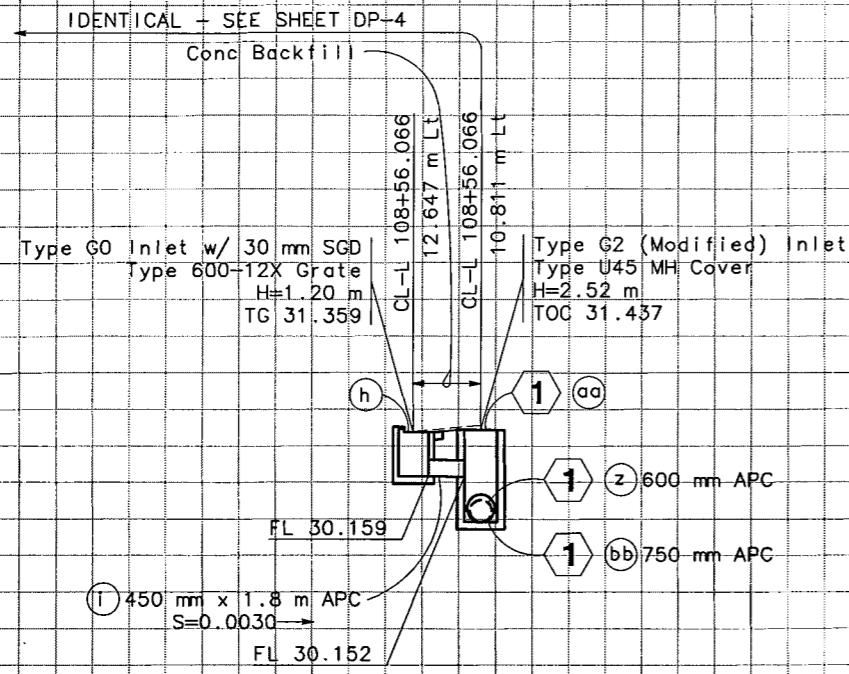
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CALCULATED/DESIGNED BY: SM 5/06

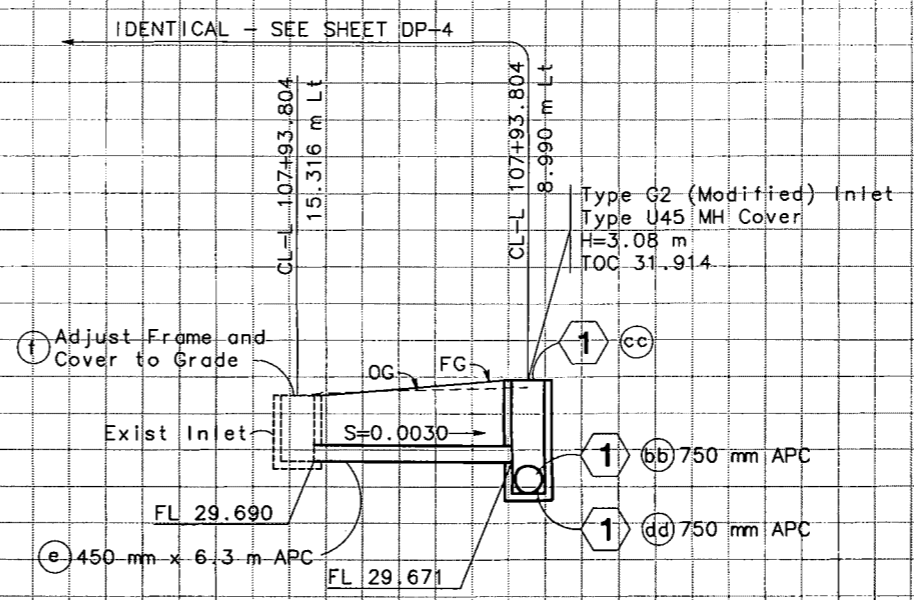
CHECKED BY: BG 5/06

DATE REVISION BY

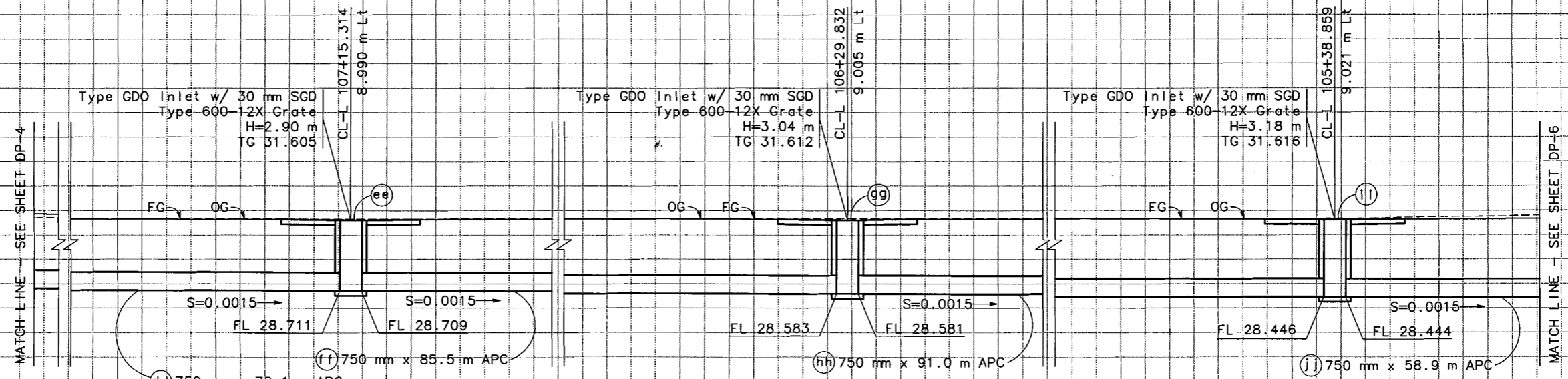
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30			
28			
26			



DRAINAGE SYSTEM No. 10



DRAINAGE SYSTEM No. 9



DRAINAGE SYSTEM No. 1 CONTINUED

DRAINAGE PROFILES  
SCALE 1:100

FINAL SUBMITTAL  
JULY 7, 2006

DP-5

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Station
Exc
Emb

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

0 20 40 60 80

USERNAME => \$USER  
DGN FILE => \$REQUEST

CU 06251

EA 3A1101

DATE PLOTTED => \$DATE  
\$TIME  
LAST REVISION  
10-25-01

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN OVERSIGHT  
 CHRISTINA HIBBARD  
 DATE REVISIED BY  
 SM 5/06 BG 5/06 DATE REVISIED BY  
 38  
 36  
 34  
 32  
 30  
 28  
 26



DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER

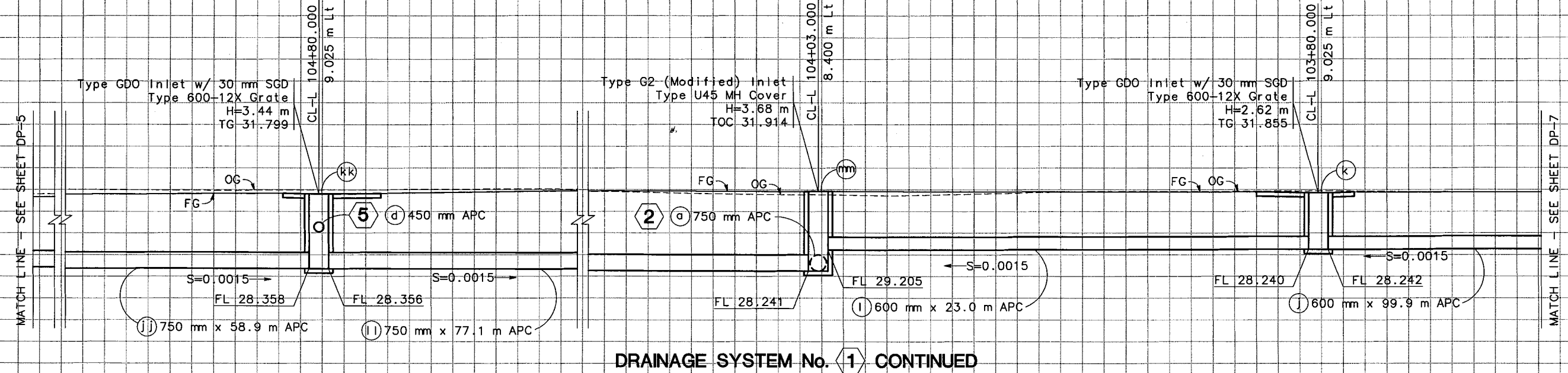
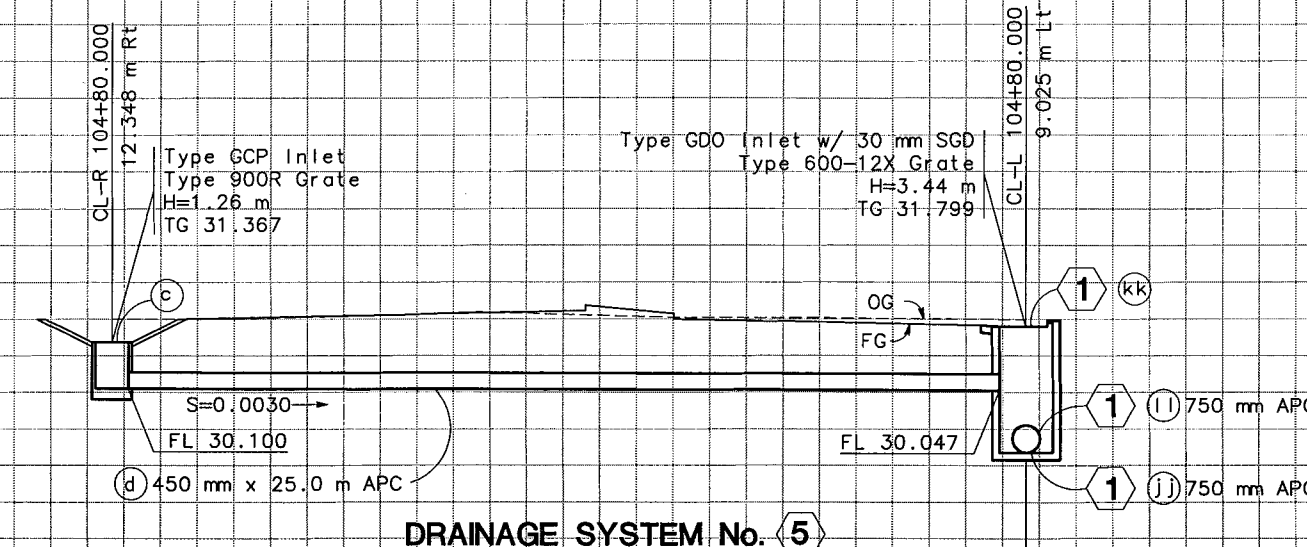
PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

RAJAPPAN & MEYER CONSULTING ENGINEERS, INC.  
 1038 LEIGH AVENUE, SUITE 100  
 SAN JOSE, CALIFORNIA 95126

**Bo Gao**  
 No. C59985  
 Exp. 6/30/06  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA

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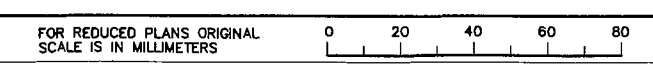


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FINAL SUBMITTAL  
 JULY 7, 2006

**DRAINAGE PROFILES**  
 SCALE 1:100  
**DP-6**

Station	Exc	Emb
m <sup>3</sup>		



DATE PLOTTED -> \$DATE  
 10-25-01



DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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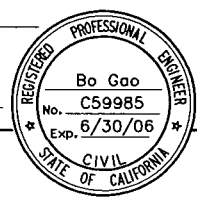
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER CONSULTING ENGINEERS, INC.  
103B LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

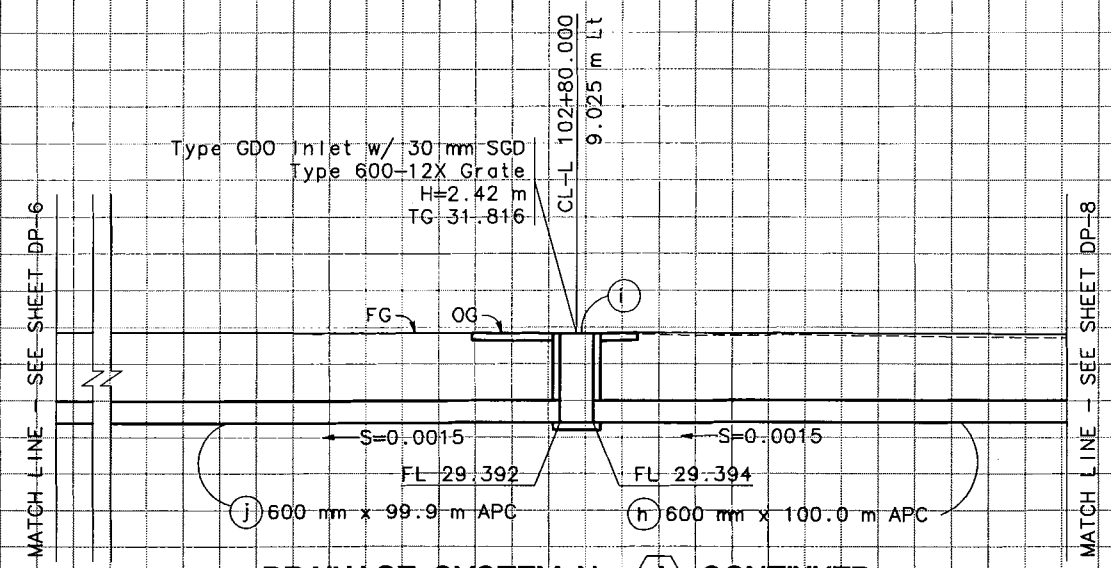
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DATE	REVISOR	BY
5/06	SM	BG
5/06	BG	BG

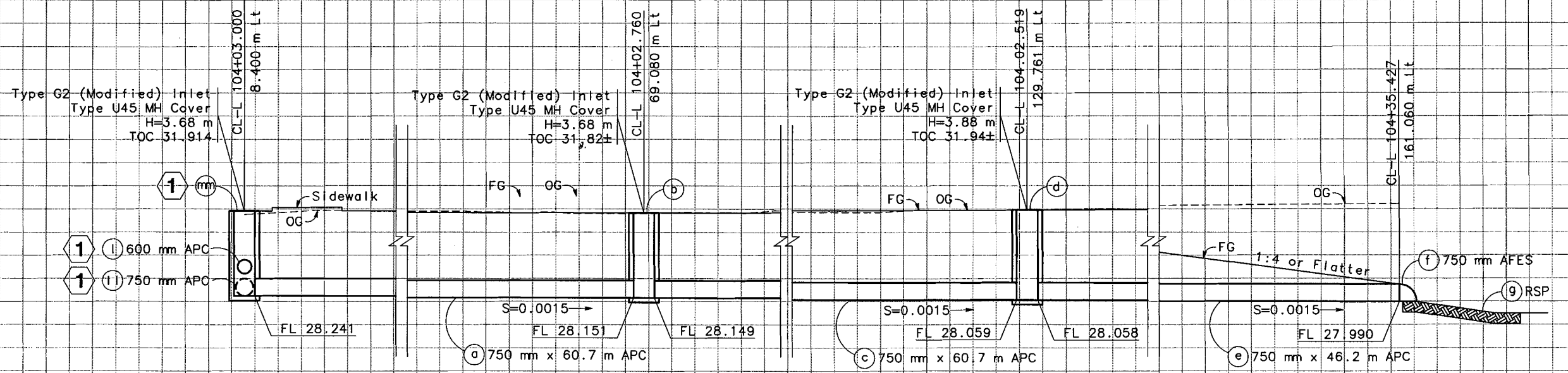
DESIGN OVERSIGHT  
CHRISTINA HIBBARD

DATE	REVISOR	BY
5/06	SM	BG
5/06	BG	BG



**DRAINAGE SYSTEM No. 1 CONTINUED**

IDENTICAL - SEE SHEET DP-6



**DRAINAGE SYSTEM No. 2**

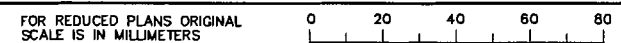
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**JULY 7, 2006**

**DRAINAGE PROFILES**  
SCALE 1:100

**DP-7**

Station	Exc	Emb
m		



USERNAME => \$USER  
CON FILE => \$REQUEST

CU 06251 EA 3A1101

DATE PLOTTED => \$DATE  
\$TIME  
LAST REVISION  
10-25-01



DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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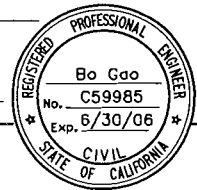
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

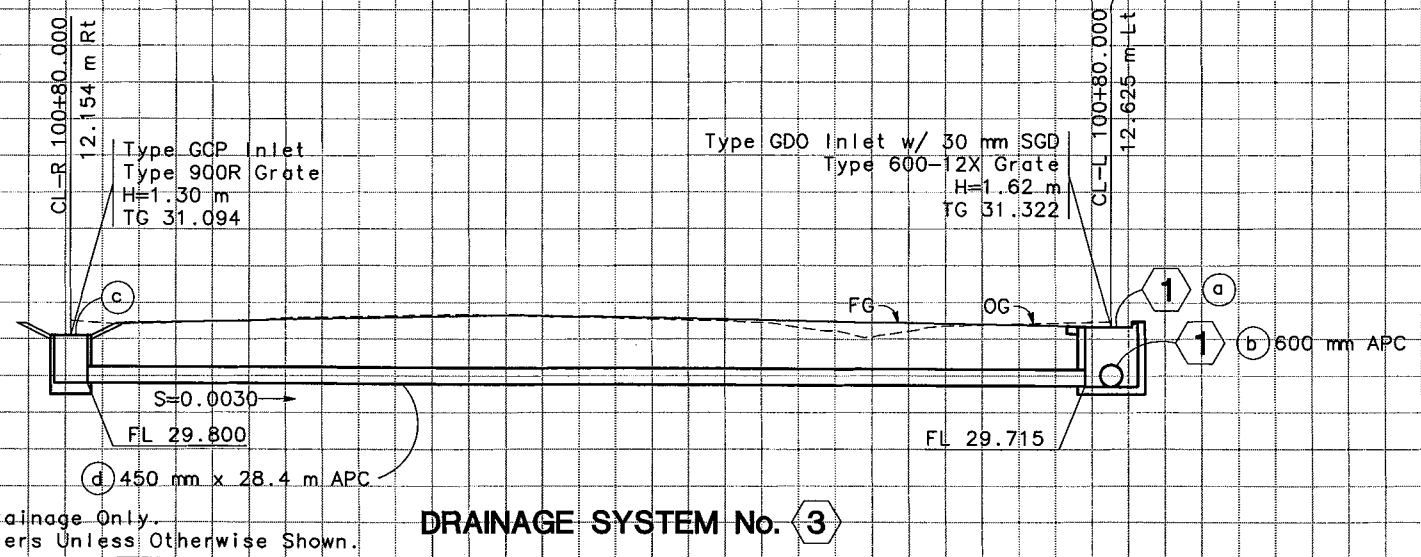
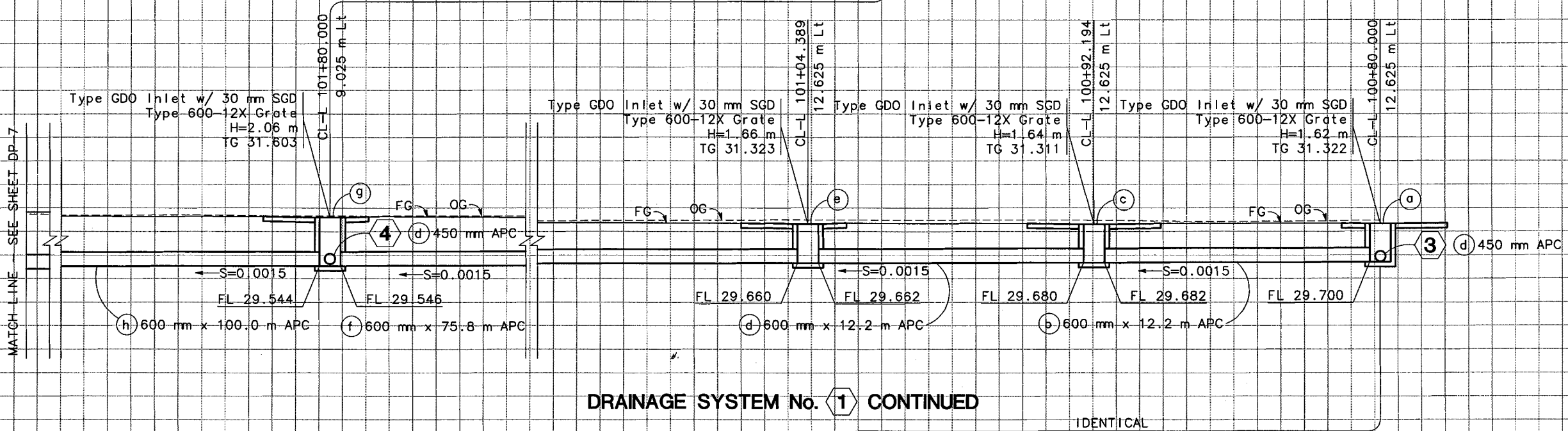
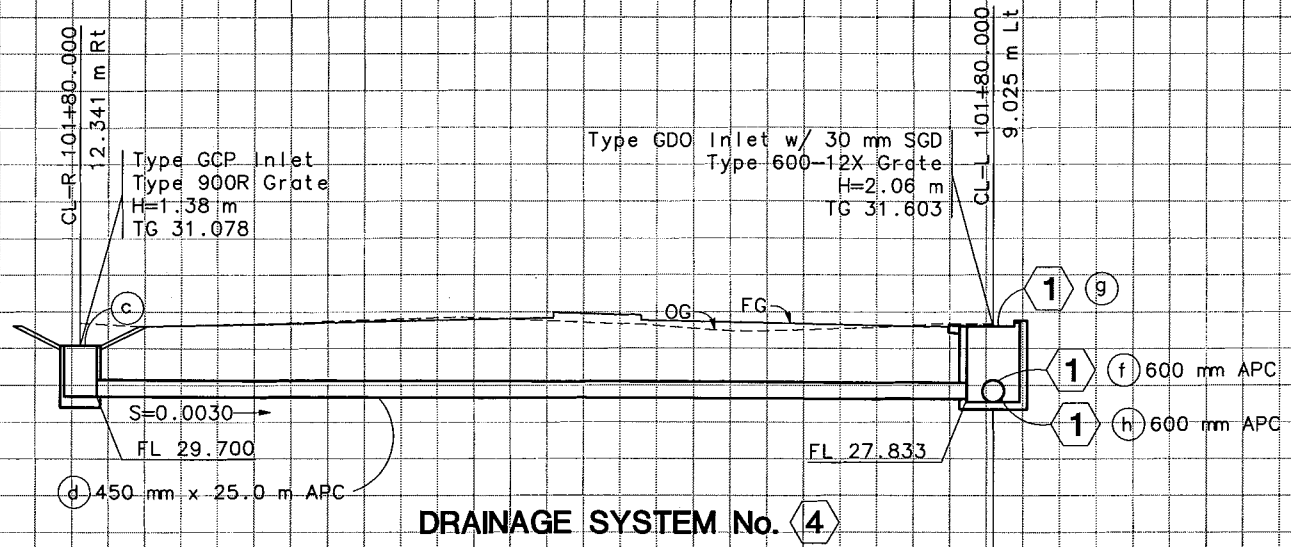
STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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DATE REVISION	BY	REVISED	DATE	BY	SM
		DATE	DATE	DATE	DATE
CALCULATED/DESIGNED	BY	DESIGNED	DATE	BY	SM
		DATE	DATE	DATE	DATE
CHECKED	BY	CHECKED	DATE	BY	SM
		DATE	DATE	DATE	DATE
DESIGN OVERSIGHT					
CHRISTINA HIBBARD					
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION					
Caltrans					



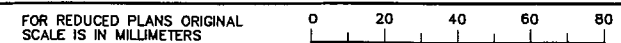
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FINAL SUBMITTAL  
JULY 7, 2006

**DRAINAGE PROFILES**  
SCALE 1:100

**DP-8**

Station	Emb	Exc
77		



USERNAME -> \$USER  
DGN FILE -> \$REQUEST

CU 06251

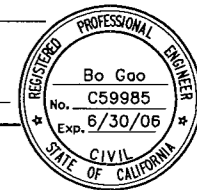
EA 3A1101

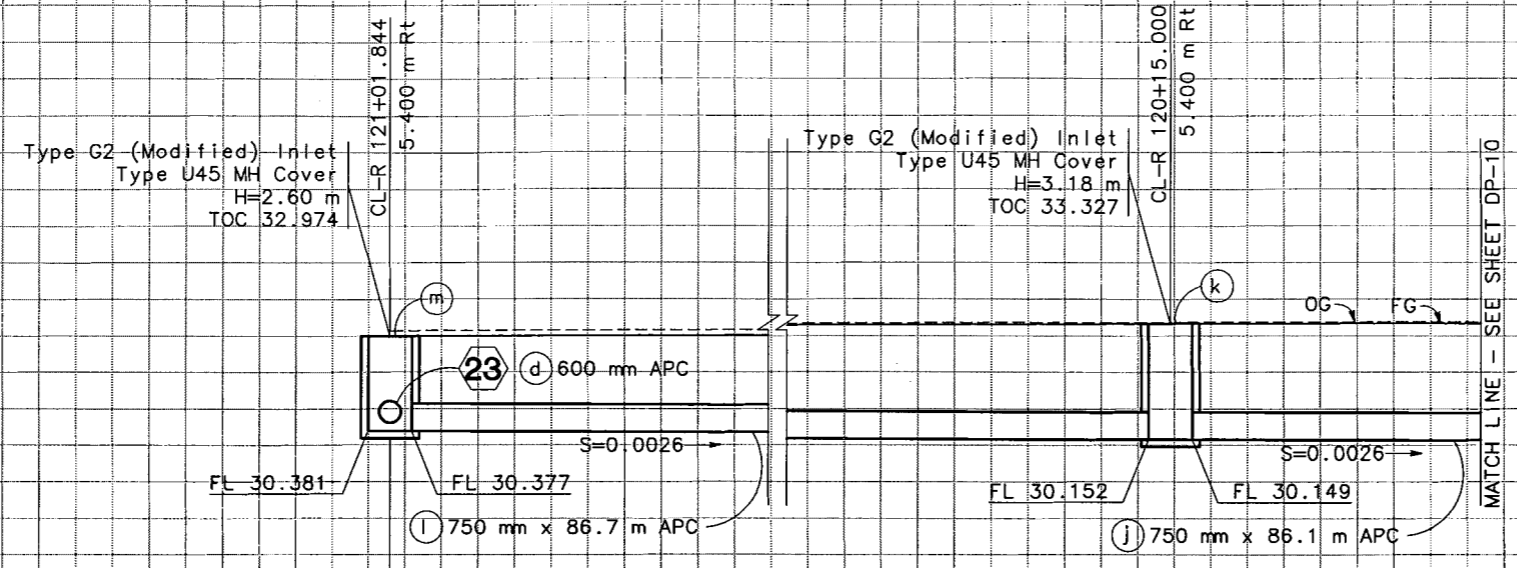
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LAST REVISION  
10-25-01



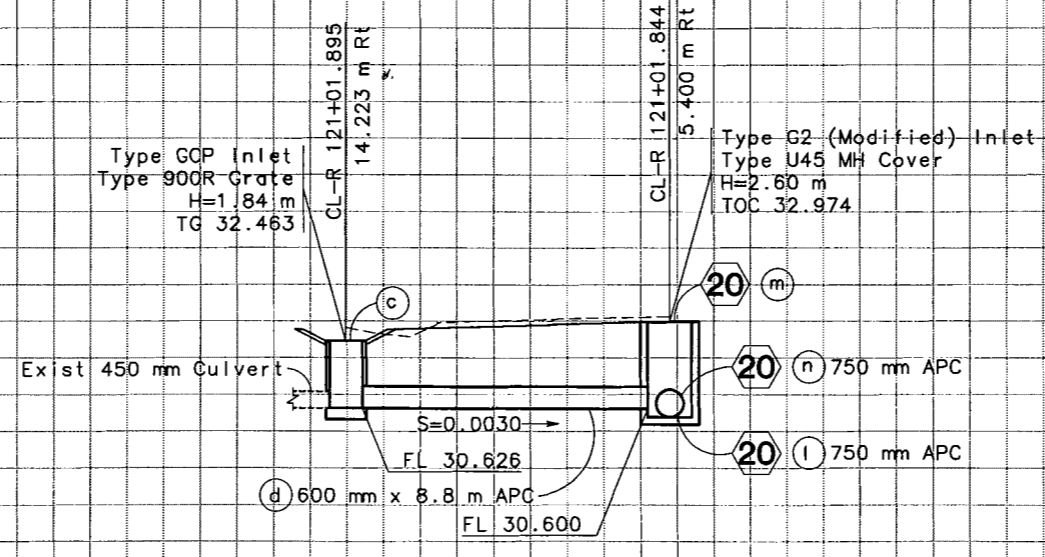
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN OVERSIGHT: CHRISTINA HIBBARD  
 CALCULATED/DESIGNED BY: SM 15/06  
 CHECKED BY: BG 15/06  
 DATE REVISED BY: 40, 38, 36, 34, 32, 30, 28



DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	68	
REGISTERED CIVIL ENGINEER					
					
PLANS APPROVAL DATE					
40 STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354					
38 RAJAPPAN & MEYER CONSULTING ENGINEERS, INC. 1038 LEIGH AVENUE, SUITE 100 SAN JOSE, CALIFORNIA 95126					
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**DRAINAGE SYSTEM No. 20**



**DRAINAGE SYSTEM No. 23**

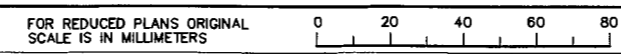
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**FINAL SUBMITTAL**  
**JULY 7, 2006**

**DRAINAGE PROFILES**  
 SCALE 1:100

**DP-9**

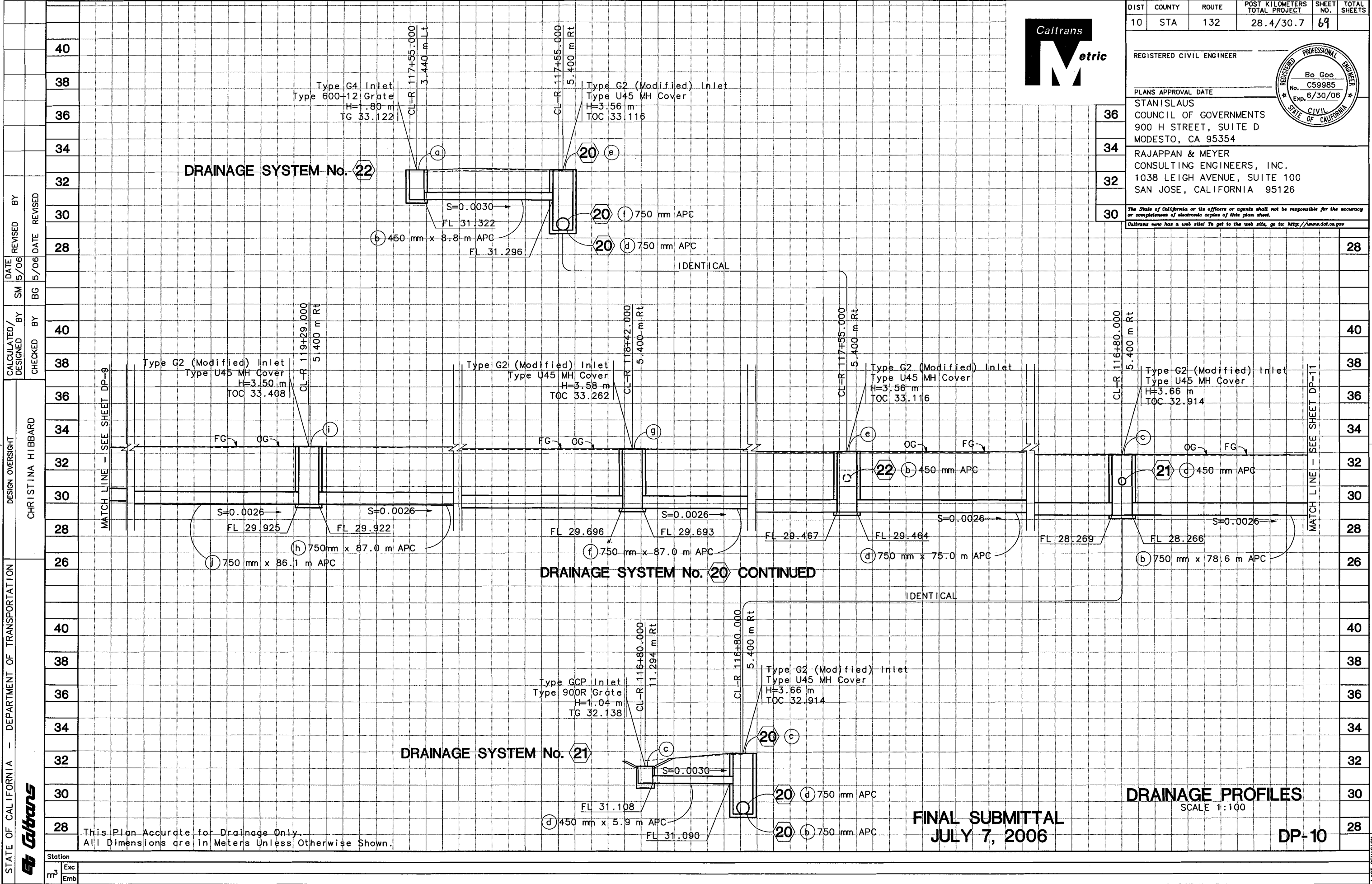
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m <sup>3</sup>		



USERNAME => \$USER  
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CU 06251 EA 3A1101

DATE PLOTTED => \$DATE  
 \$TIME  
 10-25-01  
 LAST REVISION



DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	69	

REGISTERED CIVIL ENGINEER	
PLANS APPROVAL DATE	
STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354	
RAJAPPAN & MEYER CONSULTING ENGINEERS, INC. 1038 LEIGH AVENUE, SUITE 100 SAN JOSE, CALIFORNIA 95126	

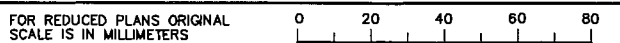
DATE REVISION BY	SM	5/06	REVISOR	BY
	BG	5/06	DATE	REVISED
CALCULATED/DESIGNED BY	SM	5/06	DESIGNER	BY
	BG	5/06	DATE	REVISOR
DESIGN OVERSIGHT	CHRISTINA HIBBARD			
	STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION			

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JULY 7, 2006

DRAINAGE PROFILES  
SCALE 1:100

DP-10



USERNAME => \$USER  
DGN FILE => \$REQUEST

CU 06251

EA 3A1101

DATE PLOTTED => \$DATE  
\$TIME



DIST	COUNTY	ROUTE	POST KILOMETERS TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06

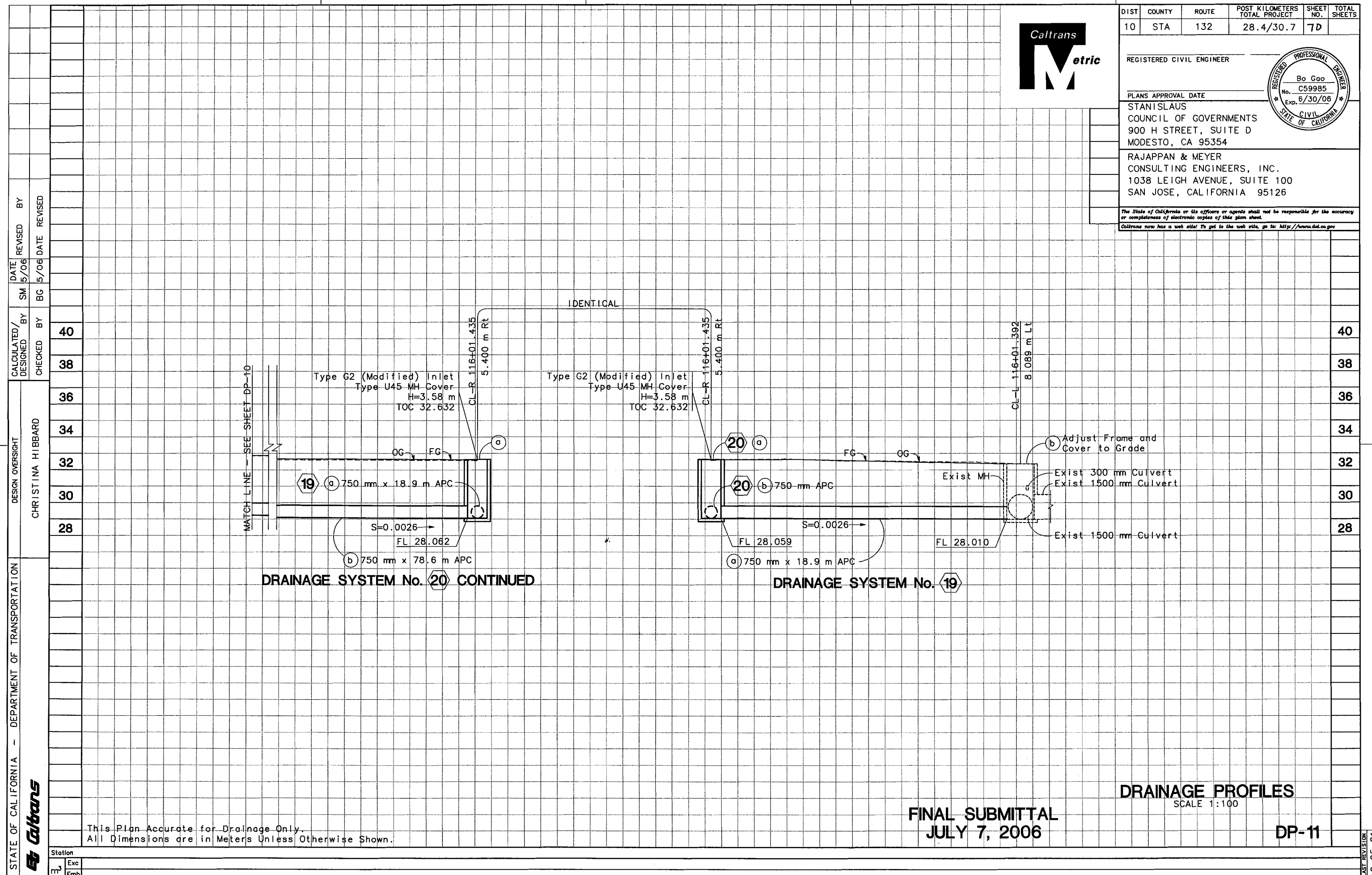
PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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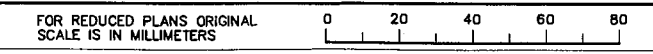
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CALCULATED/		CHECKED BY	36	DATE	BG
		DESIGNED BY	34	DATE	SM
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans	CHECKED BY	30	DATE	BG
		DESIGNED BY	28	DATE	SM

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FINAL SUBMITTAL  
JULY 7, 2006

DRAINAGE PROFILES  
SCALE 1:100

DP-11




USERNAME => \$USER  
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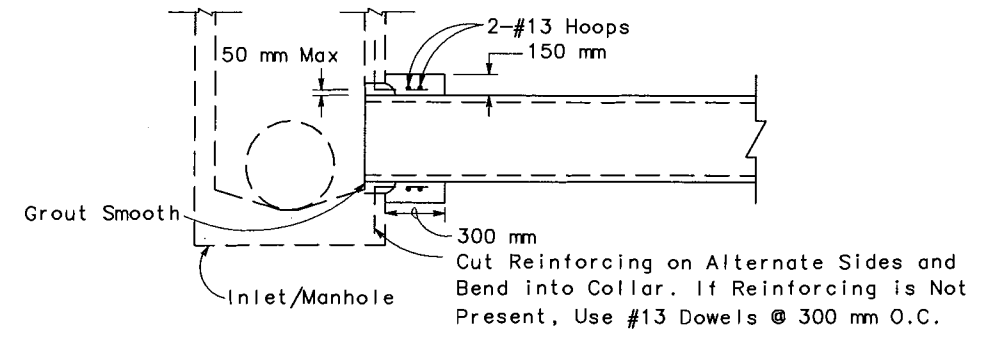
CU 06251 EA 3A1101

DATE PLOTTED => \$DATE  
LAST REVISION  
10-25-01

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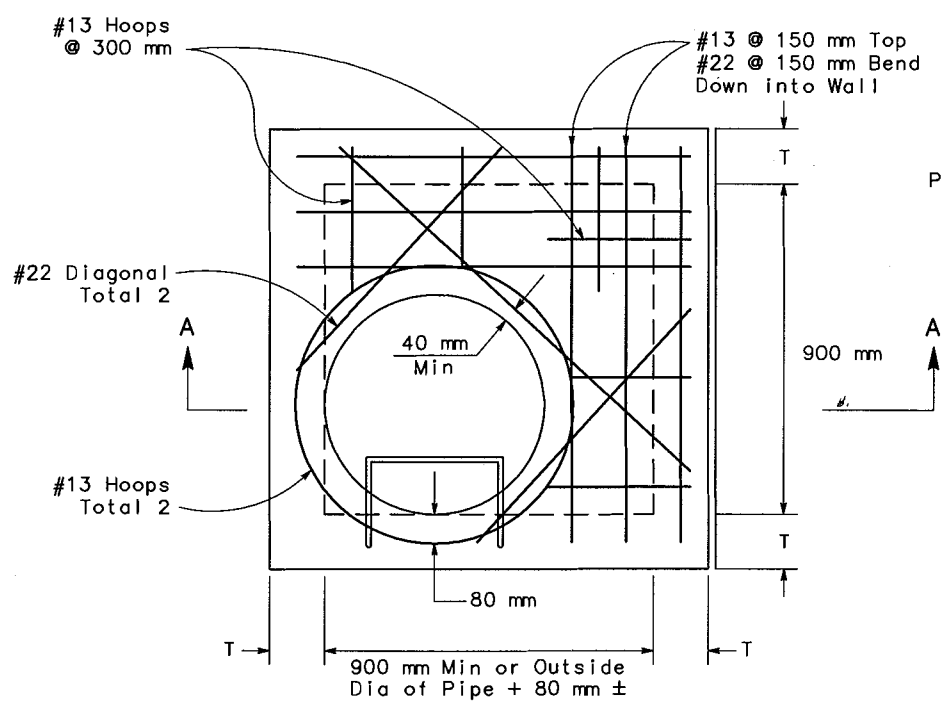
REGISTERED CIVIL ENGINEER	
PLANS APPROVAL DATE	
STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354	
RAJAPPAN & MEYER CONSULTING ENGINEERS, INC. 1038 LEIGH AVENUE, SUITE 100 SAN JOSE, CALIFORNIA 95126	
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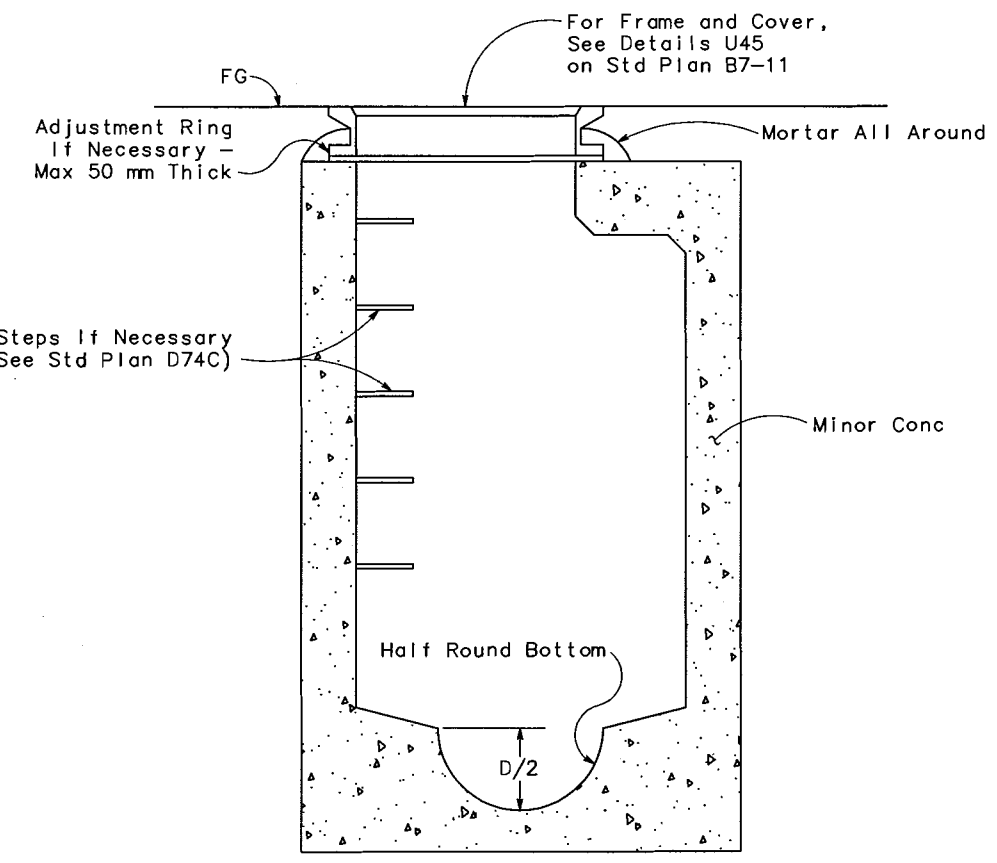
**PIPE CONNECTION TO EXISTING DRAINAGE STRUCTURE**

9 e 18 a 19 a

**NOTE**  
 For Details Not Shown, See Std Plan Std D73 - G2 Inlet.



PLAN



SECTION A-A

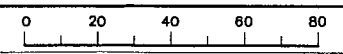
**G2 (MODIFIED) INLET**

1 u 1 w 1 y 1 aa 1 cc 1 mm 2 d 2 b  
 19 a 20 c 20 e 20 g 20 i 20 k 20 m

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DESIGN OVERSIGHT: CHRISTINA HIBBARD  
 Caltrans logo

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USERNAME => \$USER  
 DGN FILE => \$REQUEST

CU 06251

EA 3A1101

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**DRAINAGE DETAILS**  
 NO SCALE

DD-1

LAST REVISION: 9-3-04  
 DATE PLOTTED => \$DATE  
 \$TIME

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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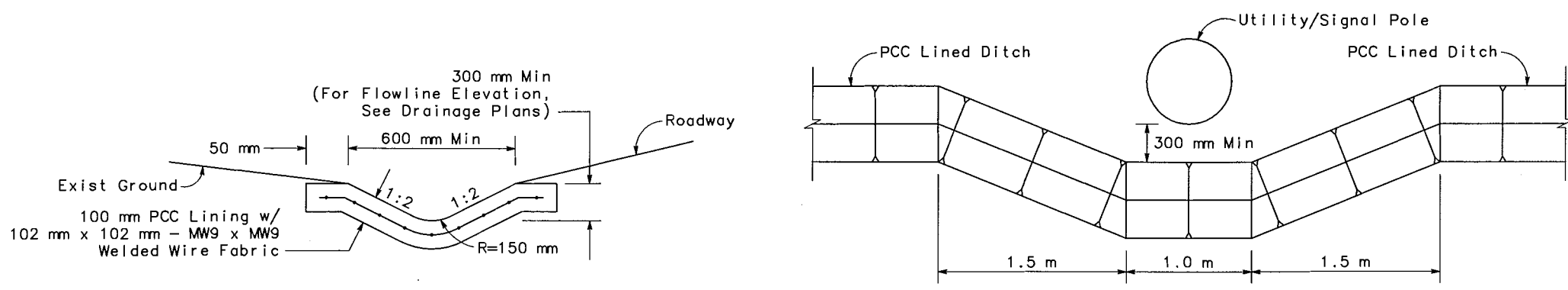
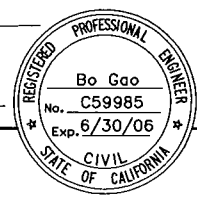
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

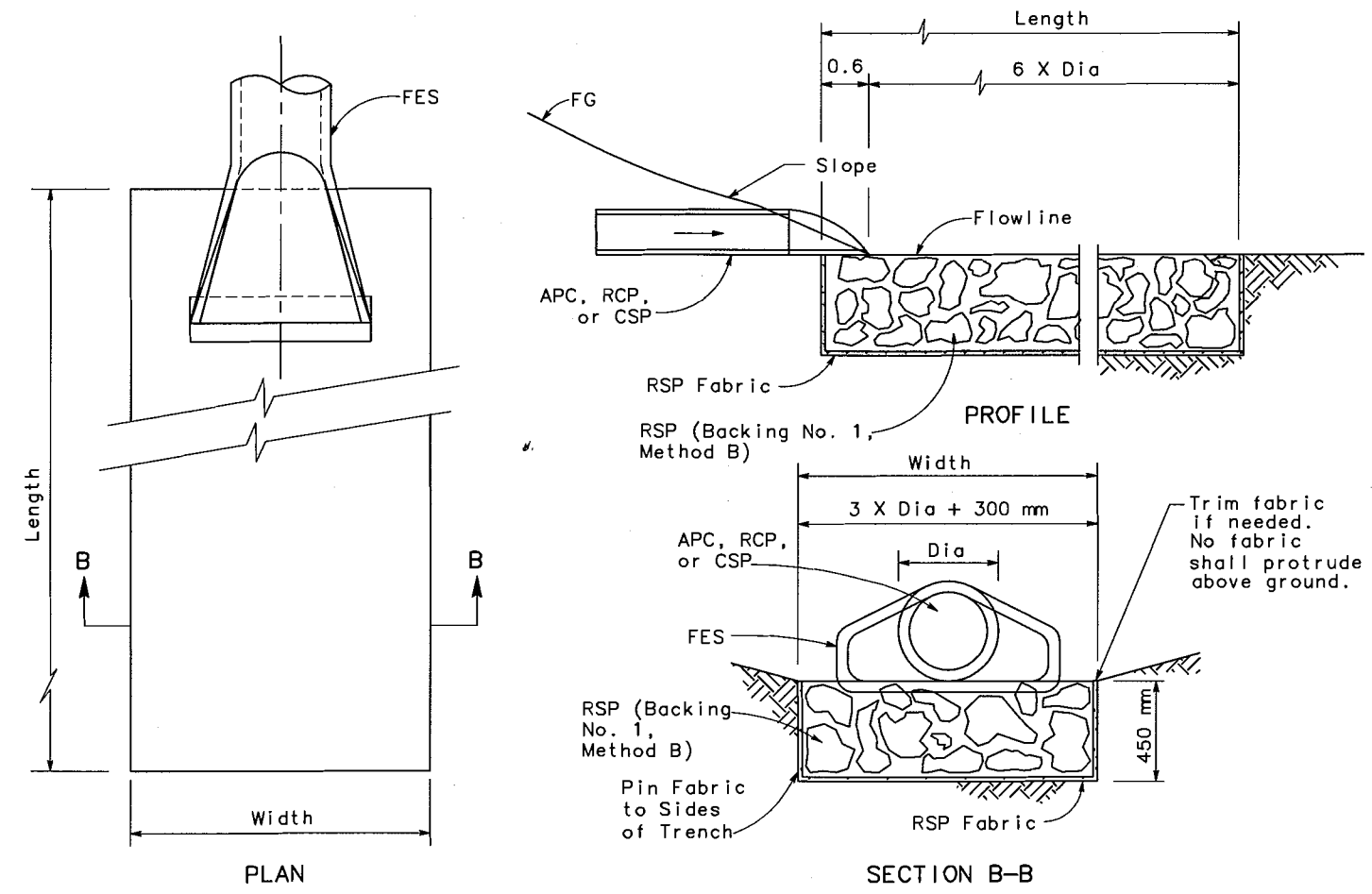
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DITCH TRANSITION AROUND POLE

PCC LINED DITCH

- 3 a
- 3 b
- 4 a
- 4 b
- 5 a
- 5 b
- 11 h
- 11 k
- 13 a
- 17 a
- 21 a
- 21 b
- 23 a
- 23 b

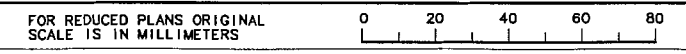


ROCK SLOPE PROTECTION AT CULVERT

2 f

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DESIGN OVERSIGHT: CHRISTINA HIBBARD  
 CALCULATED/DESIGNED BY: SM  
 CHECKED BY: BG  
 DATE REVISION: 5/06  
 DATE REVISION: 5/06

All Dimensions are in Meters Unless Otherwise Shown.



FINAL SUBMITTAL  
JULY 7, 2006

DRAINAGE DETAILS  
NO SCALE

DD-2

CU 06251 EA 3A1101

LAST REVISION: 9-3-04  
 DATE PLOTTED: 8/24/06  
 \$TIME

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN OVERSIGHT  
 CHRISTINA HIBBARD  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE REVISED BY  
 5/06 SM BG 5/06 DATE REVISED



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	73	

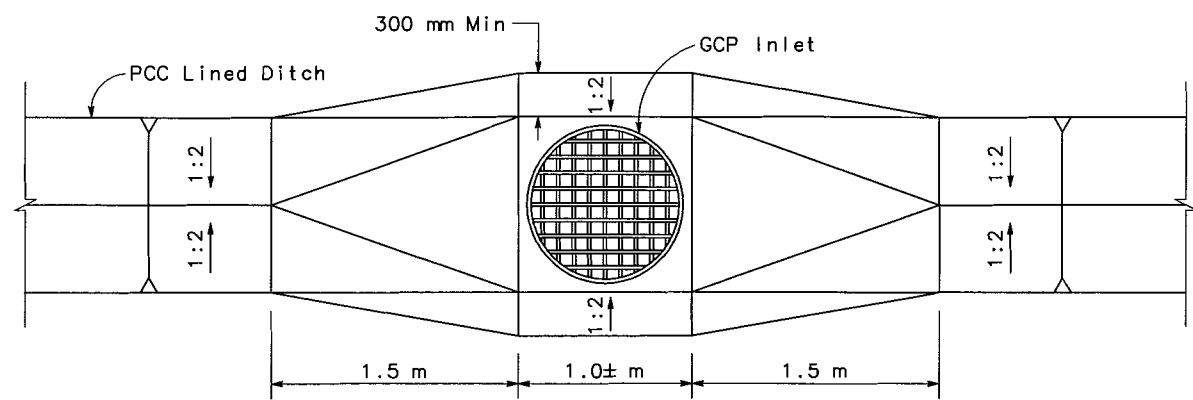
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

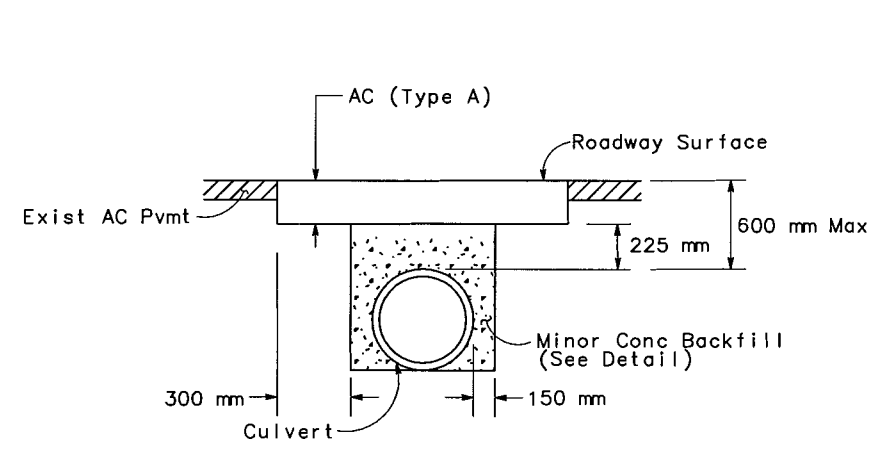
RAJAPPAN & MEYER  
 CONSULTING ENGINEERS, INC.  
 1038 LEIGH AVENUE, SUITE 100  
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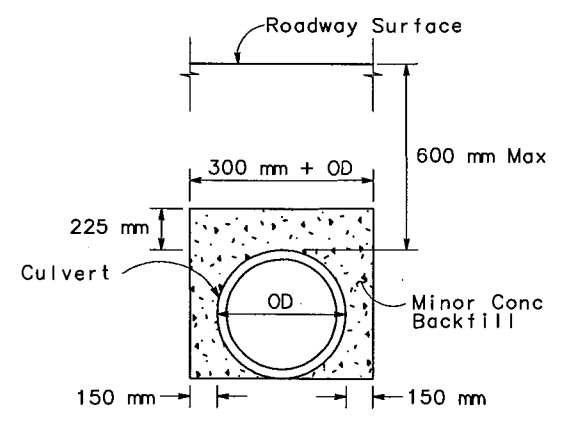
**DITCH TO INLET TRANSITION**

3 c 4 c 5 c 11 i 13 b 17 b 21 c 23 c

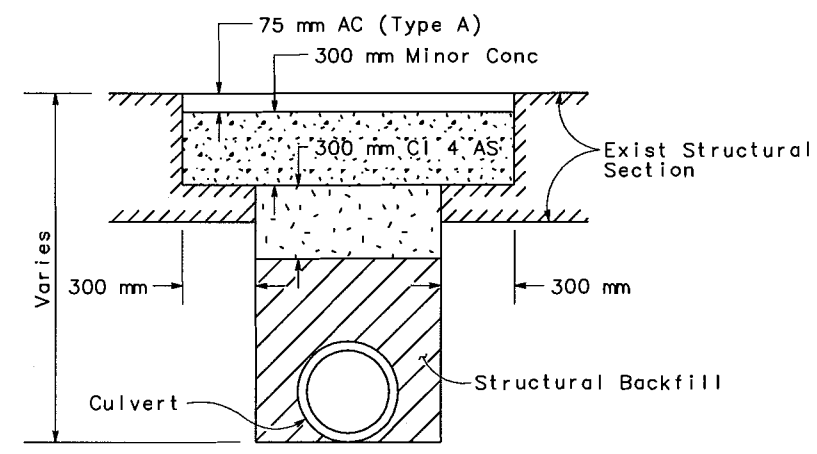


**STREET TRENCH PAVING WITH CONCRETE BACKFILL**

10 i 11 g



**DETAIL**



**STREET TRENCH PAVING**

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 0 20 40 60 80

USERNAME => \$USER  
 DGN FILE => \$REQUEST

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**DRAINAGE DETAILS**  
 NO SCALE

**DD-3**

CU 06251 EA 3A1101

DATE PLOTTED => \$DATE  
 \$TIME  
 LAST REVISION  
 9-3-04





REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06

PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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**NOTES**

- (N) the quantity shown in this column for Information Only.
- All offsets are to the Center of Structure.
- For Type G2 Inlets, where the overhang in Section C-C on the Std Plan D73 is zero, All wall thickness shall be as shown in Table A of the Std Plan.
- Minor Conc - Misc Construction, PCC Lined Ditch, and Adjust Frame and Cover to Grade are summarized in the Summary of Quantities Sheets.
- AFES will either be conc or steel, See Std Plan A94A and A94B.
- Allowable Alternative Pipe Culverts List:

**ABBREVIATIONS**

- RGJ - Rubber Gasket Joint
- SGD - Standard Gutter Depression
- w/ - With

**ALTERNATIVE PIPE CULVERTS\***

Designation	CSP (Galv)		CSP (Galv - Bit Ctd Exterior)		SSRP** (Galv - Bit Ctd Exterior)		RCP***	HDPE****
	Size	Thickness	Size	Thickness	Size	Thickness	Size	Size
300 mm APC	300 mm	4.3 mm	300 mm	2.0 mm	300 mm	2.0 mm	300 mm	300 mm
450 mm APC	450 mm	4.3 mm	450 mm	2.0 mm	450 mm	2.0 mm	450 mm	450 mm
600 mm APC	600 mm	4.3 mm	600 mm	2.0 mm	600 mm	2.0 mm	600 mm	600 mm
750 mm APC	750 mm	4.3 mm	750 mm	2.0 mm	750 mm	2.0 mm	750 mm	750 mm

- \* All Alternative Pipe Culverts must have Smooth Interiors.
- \*\* For SSRP, Standard Joints may be used.
- \*\*\* For Minimum Allowable Class of RCP See Std Plan A62D.
- \*\*\*\* HDPE can be used but will be dependent on the Height of Fill, Available Size, and Manufacturer's Specifications.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
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 DATE 5/06  
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 DATE 5/06  
 REVISED BY  
 DATE 5/06  
 REVISED BY

Drainage System No.	Drainage Unit	Minor Structures	Backfill	Misc Construction (N)	Misc Iron and Steel	Frames Grates Covers (N)				APC	Pipe Joint Type	750 mm Alternative Flared End Section	Height of Inlet "H" (N)	Maximum Cover (N)	RSP (Backing No. 1, Method B)	GCP Inlet	Remove Culvert	Abandon Culvert	Remove Rock Well	Abandon Rock Well	Remove Inlet	Adjust Frame and Cover to Grade (N)	PCC Lined Ditch (N)	Description	Station	Drainage Plan Sheet No.	Drainage System No.	Drainage Unit		
						600-12	600-12X	900R	U45																				450 mm	600 mm
1	a	1.79	1.06	216	2	EA					1.62	2.9											Type GDO Inlet w/ 30 mm SGD	CL-L 100+80.000 12.625 m Lt	D-1	1	a			
	b								12.2	RGJ		2.9												600 mm x 12.2 m APC	CL-L 100+80.000 12.625 m Lt			b		
	c	1.80	1.70	216	2						1.64	2.8												Type GDO Inlet w/ 30 mm SGD	CL-L 100+92.194 12.625 m Lt			c		
	d								12.2	RGJ		2.8												600 mm x 12.2 m APC	CL-L 100+92.194 12.625 m Lt			d		
	e	1.81	1.06	216	2				75.8	RGJ		3.0												Type GDO Inlet w/ 30 mm SGD	CL-L 101+04.389 12.625 m Lt			e		
	f											3.0												600 mm x 75.8 m APC	CL-L 101+04.389 12.625 m Lt			f		
	g	2.14	1.06	216	2						2.06	3.0												Type GDO Inlet w/ 30 mm SGD	CL-L 101+80.000 9.025 m Lt			g		
	h								100.0	RGJ		3.0												600 mm x 100.0 m APC	CL-L 101+80.000 9.025 m Lt			h		
	i	2.43	1.06	216	2						2.42	1.8												Type GDO Inlet w/ 30 mm SGD	CL-L 102+80.000 9.025 m Lt			i		
	j								99.9	RGJ		1.8												750 mm x 99.9 m APC	CL-L 102+80.000 9.025 m Lt	D-1		j		
	k	3.45	1.06	216	2						2.62	2.1												Type GDO Inlet w/ 30 mm SGD	CL-L 103+80.000 9.025 m Lt	D-2		k		
	l								23.0			2.1												600 mm x 100.0 m APC	CL-L 104+03.000 8.400 m Lt	D-2		l		
	m	1.82	1.06	216	2						1.66	1.0												Type GDO Inlet w/ 30 mm SGD	CL-L 112+31.908 12.325 m Lt	D-4		m		
	n								56.6	RGJ		1.0												600 mm x 56.6 m APC	CL-L 111+75.294 12.325 m Lt			n		
	o	1.69	1.06	216	2						1.50	0.9												Type GDO Inlet w/ 30 mm SGD	CL-L 111+75.294 12.325 m Lt			o		
	p								21.0	RGJ		0.9												600 mm x 21.0 m APC	CL-L 111+54.301 12.325 m Lt			p		
	q	1.66	1.70	216	2						1.46													Type GDO Inlet w/ 30 mm SGD	CL-L 111+54.301 12.325 m Lt			q		
	r								21.0	RGJ		0.9												600 mm x 21.0 m APC	CL-L 111+33.307 12.325 m Lt			r		
	s	1.77	1.06	216	2						1.60	1.1												Type GDO Inlet w/ 30 mm SGD	CL-L 111+33.307 12.325 m Lt			s		
	t								77.1	RGJ		1.1												600 mm x 77.1 m APC	CL-L 110+56.260 10.866 m Lt			t		
	u	1.46		200							1.62	1.3												Type G2 (Modified) Inlet	CL-L 110+56.260 10.866 m Lt			u		
	v								53.9	RGJ		1.3												600 mm x 53.9 m APC	CL-L 110+02.399 10.851 m Lt	D-4		v		
	w	1.59		200							1.82	1.8												Type G2 (Modified) Inlet	CL-L 110+02.399 10.851 m Lt	D-3		w		
	x								91.7	RGJ		1.8												600 mm x 91.7 m APC	CL-L 109+10.717 10.826 m Lt			x		
	y	1.96		200							2.40													Type G2 (Modified) Inlet	CL-L 109+10.717 10.826 m Lt			y		
	z								54.7	RGJ		2.0												600 mm x 54.7 m APC	CL-L 108+56.066 10.811 m Lt	D-3	1	z		
Sheet Total	25.37		11.882760		20		3	699.1																						

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**DRAINAGE QUANTITIES**

**DQ-1**

LAST REVISION  
 9-3-04  
 DATE PLOTTED -> DATE  
 \$TIME



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN OVERSIGHT  
 CHRISTINA HIBBARD  
 CALCULATED/DESIGNED BY SM DATE 5/06 REVISOR BY BG DATE 5/06  
 CHECKED BY BG DATE 5/06



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	75	

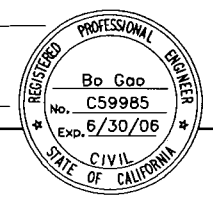
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

RAJAPPAN & MEYER  
 CONSULTING ENGINEERS, INC.  
 1038 LEIGH AVENUE, SUITE 100  
 SAN JOSE, CALIFORNIA 95126

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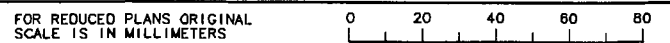


Sheet No.	Drainage System No.	Drainage Unit	Minor Conc		Frames Grates Covers (N)					APC			Pipe Joint Type	750 mm Alternative Flared End Section	Height of Inlet "H" (N)	Maximum Cover (N)	RSP (Backing No. 1, Method B)	GCP Inlet	Remove Culvert	Abandon Culvert	Remove Rock Well	Abandon Rock Well	Remove Inlet	Adjust Frame and Cover to Grade (N)	PCC Lined Ditch (N)	Description	Station	Drainage Plan Sheet No.	Drainage System No.	Drainage Unit
			Minor Structures	Backfill	Misc Construction (N)	Misc Iron and Steel	600-12	600-12X	900R	U45	450 mm	600 mm																		
1	aa	3.33		200																					Type G2 (Modified) Inlet	CL-L 108+56.066 10.811 m Lt	D-3	1	aa	
	bb																								750 mm x 62.6 m APC	CL-L 107+93.804 8.990 m Lt			bb	
	cc	3.97		200																					Type G2 (Modified) Inlet	CL-L 107+93.804 8.990 m Lt			cc	
	dd																								750 mm x 78.1 m APC	CL-L 107+15.314 8.990 m Lt			dd	
	ee	3.76	1.18	216		2																			Type GDO Inlet w/ 30 mm SGD	CL-L 107+15.314 8.990 m Lt			ee	
	ff																								750 mm x 85.5 m APC	CL-L 106+29.832 9.005 m Lt	D-3		ff	
	gg	3.92	1.18	216		2																			Type GDO Inlet w/ 30 mm SGD	CL-L 106+29.832 9.005 m Lt	D-2		gg	
	hh																								750 mm x 91.0 m APC	CL-L 105+38.859 9.021 m Lt			hh	
	ii	4.07	1.18	216		2																			Type GDO Inlet w/ 30 mm SGD	CL-L 105+38.859 9.021 m Lt			ii	
	jj																								750 mm x 58.9 m APC	CL-L 104+80.000 9.025 m Lt			jj	
	kk	4.36	1.06	216		2																			Type GDO Inlet w/ 30 mm SGD	CL-L 104+80.000 9.025 m Lt			kk	
	ll																								750 mm x 77.1 m APC	CL-L 104+03.000 8.400 m Lt			ll	
1	mm	4.65		200																					Type G2 (Modified) Inlet	CL-L 104+03.000 8.400 m Lt	D-2	1	mm	
2	d																								750 mm x 54.2 m APC	CL-L 104+03.000 8.400 m Lt	D-2	2	d	
	b	4.65		200																					Type G2 (Modified) Inlet	CL-L 104+02.789 62.584 m Lt			b	
	c																								750 mm x 54.2 m APC	CL-L 104+02.789 62.584 m Lt			c	
	d	4.88		200																					Type G2 (Modified) Inlet	CL-L 104+02.571 116.767 m Lt			d	
	e																								750 mm x 46.6 m APC	CL-L 104+02.571 116.767 m Lt			e	
	f																								750 mm AFES	CL-L 104+34.743 149.589 m Lt			f	
2	g																								Rock Slope Protection	CL-L 104+34.743 149.589 m Lt	D-2	2	g	
3	a																								PCC Lined Ditch	CL-R 100+25.000 11.704 m Rt	D-1	3	a	
	b																								PCC Lined Ditch	CL-R 100+95.000 11.704 m Rt			b	
	c			107																					Type GCP Inlet	CL-R 100+80.000 12.154 m Rt			c	
	d																								450 mm x 28.4 m APC	CL-R 100+80.000 12.154 m Rt			d	
3	e																								Remove Rock Well	CL-L 100+79.829 5.870 m Lt	D-1	3	e	
Sheet Total		37.59	4.60	1971		8	1	5	28.4	620.8		1					5.85	1.30												70

FINAL SUBMITTAL  
 JULY 7, 2006

DRAINAGE QUANTITIES

DQ-2





DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	76	

REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06

PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN OVERSIGHT: CHRISTINA HIBBARD

CALCULATED/DESIGNED BY: SM

CHECKED BY: BG

DATE: 5/06

REVISOR: BG

DATE: 5/06

Drainage System No.	Drainage Unit	Minor Structures	Backfill	Misc Construction (N)	Misc Iron and Steel	Frames Grates Covers (N)				APC	Pipe Joint Type	75 mm Alternative Flared End Section	Height of Inlet "H" (N)	Maximum Cover (N)	RSP (Backing No. 1, Method B)	GCP Inlet	Remove Culvert	Abandon Culvert	Remove Rock Well	Abandon Rock Well	Remove Inlet	Adjust Frame and Cover to Grade (N)	PCC Lined Ditch (N)	Description	Station	Drainage Plan Sheet No.	Drainage System No.	Drainage Unit
						EA	m	EA	m																			
4	a																					55	PCC Lined Ditch	CL-R 101+25.000 11.680 m Rt	D-1	4	a	
	b																					200	PCC Lined Ditch	CL-R 103+80.000 11.619 m Rt			b	
	c			107							1.38				1.38								Type GCP Inlet	CL-R 101+80.000 12.341 m Rt			c	
4	d								25.0		RGJ		1.2										450 mm x 25.0 m APC	CL-R 101+80.000 12.341 m Rt	D-1	4	d	
5	a																					60	PCC Lined Ditch	CL-R 104+20.333 11.907 m Rt	D-2	5	a	
	b																					190	PCC Lined Ditch	CL-R 106+70.000 11.867 m Rt			b	
	c			107								1.26			1.26								Type GCP Inlet	CL-R 104+80.000 12.348 m Rt			c	
5	d								25.0		RGJ		1.1										450 mm x 25.0 m APC	CL-R 104+80.000 12.348 m Rt	D-2	5	d	
6	a																		1				Abandon Rock Well	CL-L 105+38.906 10.422 m Lt	D-2	6	a	
	b																1.2						Abandon Culvert	CL-L 105+38.906 10.422 m Lt			b	
6	c																		1				Remove Inlet	CL-L 105+38.859 9.021 m Lt	D-2	6	c	
7	a																		1				Abandon Rock Well	CL-L 106+29.854 10.494 m Lt	D-2	7	a	
	b																1.2						Abandon Culvert	CL-L 106+29.854 10.494 m Lt			b	
7	c																		1				Remove Inlet	CL-L 106+29.832 9.005 m Lt	D-2	7	c	
8	a																		1				Abandon Rock Well	CL-L 107+15.364 10.521 m Lt	D-3	8	a	
	b																1.2						Abandon Culvert	CL-L 107+15.364 10.521 m Lt			b	
8	c																		1				Remove Inlet	CL-L 107+15.314 8.990 m Lt	D-3	8	c	
9	a																		1				Abandon Rock Well	CL-L 107+97.025 18.269 m Lt	D-3	9	a	
	b																3.0						Abandon Culvert	CL-L 107+97.025 18.269 m Lt			b	
	c																		1				Abandon Rock Well	CL-L 107+96.950 15.284 m Lt			c	
	d																3.1						Abandon Culvert	CL-L 107+93.804 15.316 m Lt			d	
	e								6.3		RGJ		1.8										450 mm x 6.3 m APC	CL-L 107+93.804 15.316 m Lt			e	
9	f																			1			Adjust Frame and Cover to Grade	CL-L 107+93.804 15.316 m Lt	D-3	9	f	
10	a																		1				Abandon Rock Well	CL-L 108+43.903 13.915 m Lt	D-3	10	a	
	b																6.0						Abandon Culvert	CL-L 108+43.903 13.915 m Lt			b	
	c																		1				Abandon Rock Well	CL-L 108+49.879 14.088 m Lt			c	
	d																6.3						Abandon Culvert	CL-L 108+49.879 14.088 m Lt			d	
10	e																		1				Abandon Rock Well	CL-L 108+56.138 14.047 m Lt	D-3	10	e	
Sheet Total				214		2	56.3								2.64	22.0	8	3	1	505								

DRAINAGE QUANTITIES

FINAL SUBMITTAL  
JULY 7, 2006

DQ-3

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CU 06251

EA 3A1101

DATE PLOTTED => \$DATE  
\$TIME



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	77	

REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT: CHR IST INA HIBBARD

DATE REVISIED BY: SM 5/06

CALCULATED/DESIGNED BY: BG 5/06

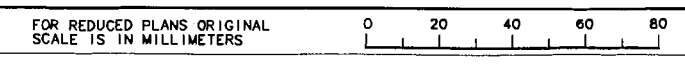
CHECKED BY: BG 5/06

DATE REVISIED

Sheet No.	Drainage System No.	Drainage Unit	Minor Conc		Frames Grates Covers (N)				APC			Pipe Joint Type	750 mm Alternative Flared End Section	Height of Inlet "H" (N)	Maximum Cover (N)	RSP (Backing No. 1, Method B)	GCP Inlet	Remove Culvert	Abandon Culvert	Remove Rock Well	Abandon Rock Well	Remove Inlet	Adjust Frame and Cover to Grade (N)	PCC Lined Ditch (N)	Description	Station	Drainage Plan Sheet No.	Drainage System No.	Drainage Unit
			Minor Structures	Backfill	Misc Construction (N)	Misc Iron and Steel	600-12	600-12X	900R	U45	450 mm																		
10	f																		1.1					Abandon Culvert	CL-L 108+56.138 14.047 m Lt	D-3	10	f	
	g																							Remove Inlet	CL-L 108+56.066 12.647 m Rt			g	
	h	1.09	1.18	108										1.20										Type G0 Inlet w/ 30 mm SGD	CL-L 108+56.066 12.647 m Rt			h	
10	i		0.63							1.8		RGJ		0.6										450 mm x 1.8 m APC w/ Conc Backfill	CL-L 108+56.066 12.647 m Rt	D-3	10	i	
11	a																		1.1					Abandon Culvert	CL-L 109+10.819 14.180 m Lt	D-3	11	a	
	b																							Abandon Rock Well	CL-L 109+10.819 14.180 m Lt			b	
	c																		6.1					Abandon Culvert	CL-L 109+16.966 14.189 m Lt			c	
	d																							Abandon Rock Well	CL-L 109+16.966 14.189 m Lt			d	
	e																							Remove Inlet	CL-L 109+10.717 12.677 m Lt			e	
	f	1.09	1.18	108										1.20										Type G0 Inlet w/ 30 mm SGD	CL-L 109+10.717 12.677 m Lt			f	
	g		0.66							1.9		RGJ		0.6										450 mm x 1.9 mm APC w/ Conc Backfill	CL-L 109+10.717 12.677 m Lt			g	
	h																							PCC Lined Ditch	CL-R 109+50.000 13.014 m Rt			h	
	i			107																				Type GCP Inlet	CL-R 109+10.774 13.584 m Rt			i	
	j									28.0		RGJ												450 mm x 28.0 m APC	CL-R 109+10.774 13.584 m Rt			j	
11	k																							PCC Lined Ditch	CL-R 107+00.000 11.340 m Rt	D-3	11	k	
12	a																							Abandon Rock Well	CL-L 110+14.637 13.943 m Lt	D-3	12	a	
	b																		6.0					Abandon Culvert	CL-L 110+14.637 13.943 m Lt			b	
	c																							Abandon Rock Well	CL-L 110+08.600 13.866 m Lt			c	
	d																		6.0					Abandon Culvert	CL-L 110+08.600 13.866 m Lt			d	
	e																							Abandon Rock Well	CL-L 110+02.560 13.920 m Lt			e	
	f																		1.2					Abandon Culvert	CL-L 110+02.560 13.920 m Lt			f	
	g																							Remove Inlet	CL-L 110+02.399 10.851 m Lt			g	
	h	1.09	1.18	108										1.20										Type G0 Inlet w/ 30 mm SGD	CL-L 110+02.399 12.427 m Lt			h	
12	i									1.6		RGJ		0.8										450 mm x 1.6 m APC	CL-L 110+02.399 12.427 m Lt	D-3	12	i	
13	a																							PCC Lined Ditch	CL-R 109+80.000 12.931 m Rt	D-3	13	a	
	b																							Type GCP Inlet	CL-L 111+75.353 12.417 m Rt	D-4		b	
	c									15.9		RGJ		1.4											450 mm x 15.9 m APC	CL-L 111+75.353 12.417 m Rt			c
	d	1.31		148										1.50										Type G4 Inlet	CL-R 111+47.364 3.440 m Lt			d	
	e																							450 mm x 14.0 m APC	CL-R 111+47.364 3.440 m Lt			e	
	f	1.32		148										1.52										Type G4 Inlet	CL-R 111+61.364 3.440 m Lt			f	
	g																							450 mm x 14.0 m APC	CL-R 111+61.364 3.440 m Lt			g	
13	h	1.51		148										1.82										Type G4 Inlet	CL-R 111+75.364 3.440 m Lt	D-4	13	h	
Sheet Total		7.41	1.29	3.54	982	3	5			77.2							2.50	21.5		5	3		445						

FINAL SUBMITTAL  
JULY 7, 2006

DRAINAGE QUANTITIES  
DQ-4





DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	78	

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354



RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN OVERSIGHT

CHRISTINA HIBBARD

DATE REVISION BY

DATE	REVISION	BY
5/06	SM	BG
5/06	BG	BG

CHECKED BY

DATE REVISION BY

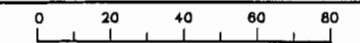
Drainage System No.	Drainage Unit	Minor Conc			Frames Grates Covers (N)			APC			Pipe Joint Type	750 mm Alternative Flared End Section	Height of Inlet "H" (N)	Maximum Cover (N)	RSP (Backing No. 1, Method B)	GCP Inlet	Remove Culvert	Abandon Culvert	Remove Rock Well	Abandon Rock Well	Remove Inlet	Adjust Frame and Cover to Grade (N)	PCC Lined Ditch (N)	Description	Station	Drainage Plan Sheet No.	Drainage System No.	Drainage Unit
		Minor Structures	Backfill	Misc Construction (N)	Misc Iron and Steel	600-12	600-12X	900R	U45	450 mm																		
13	i										14.3	RGJ	1.4										450 mm x 14.3 m APC	CL-R 111+75.364 3.440 m Lt	D-4	13	i	
14	a	1.09	1.18	108							1.20												Type G0 Inlet w/ 30 mm SGD	CL-L 110+56.260 12.450 m Lt	D-4	14	a	
	b																						Abandon Culvert	CL-L 110+56.214 13.814 m Lt			b	
	c																						Abandon Rock Well	CL-L 110+56.214 13.814 m Lt			c	
	d																						Abandon Culvert	CL-L 110+62.263 13.740 m Lt			d	
	e																						Abandon Rock Well	CL-L 110+62.263 13.740 m Lt			e	
	f										1.6	RGJ	0.7										450 mm x 1.6 m APC	CL-L 110+56.260 12.450 m Lt			f	
14	g																						Remove Inlet	CL-L 110+56.260 12.450 m Lt	D-4	14	g	
15	a																						Abandon Rock Well	CL-L 111+13.400 7.133 m Lt	D-4	15	a	
15	b																						Abandon Culvert	CL-L 111+13.400 7.133 m Lt	D-4	15	b	
16	a																						Abandon Culvert	CL-L 111+83.364 7.222 m Lt	D-4	16	a	
17	a																						PCC Lined Ditch	CL-R 115+80.000 12.285 m Rt	D-4	17	a	
	b										1.48		1.48										Type GCP Inlet	CL-R 112+31.978 12.285 m Rt			b	
	c										30.0	RGJ	1.1										450 mm x 30.0 m APC	CL-R 112+31.978 12.285 m Rt			c	
	d																						Abandon Rock Well	CL-L 112+71.596 8.232 m Lt			d	
17	e										97.9	RGJ	1.1										600 mm x 97.9 m APC	CL-R 112+31.908 12.325 m Lt	D-4	17	e	
18	a										70.2	RGJ	0.8										600 mm x 70.2 m APC	CL-L 113+29.805 12.559 m Lt	D-4	18	a	
	b	1.55	1.06	216		2					1.32												Type G0 Inlet w/ 30 mm SGD	CL-L 114+00.000 12.325 m Lt	D-4		b	
	c										75.0	RGJ	0.8										600 mm x 75.0 m APC	CL-L 114+00.000 12.325 m Lt	D-5		c	
	d	1.31		148	1						14.3	RGJ	0.9										Type G4 Inlet	CL-R 114+75.000 3.440 m Lt			d	
	e																						450 mm x 14.3 m APC	CL-R 114+75.000 3.440 m Lt			e	
	f	1.61	1.06	216		2					65.0	RGJ	0.8										Type G0 Inlet w/ 30 mm SGD	CL-L 114+75.000 12.325 m Rt			f	
	g																						600 mm x 65.0 m APC	CL-L 114+75.000 12.325 m Rt			g	
	h	1.61	1.06	216		2																	Type G0 Inlet w/ 30 mm SGD	CL-L 115+40.000 12.341 m Lt	D-5		h	
18	i																						Adjust Frame and Cover to Grade	CL-L 113+29.805 12.559 m Lt	D-4	18	i	
19	a										18.9	RGJ	2.8										750 mm x 18.9 m APC	CL-R 116+01.435 5.400 m Rt	D-5	19	a	
	b																						Adjust Frame and Cover to Grade	CL-L 116+10.511 20.089 m Lt			b	
19	c																						Adjust Frame and Cover to Grade	CL-L 116+01.392 8.089 m Lt	D-5	19	c	
Sheet Total		7.17	4.36	1011	1	7	1				60.2	308.1	118.9				1.48	58.7	4	1	3	360						

DRAINAGE QUANTITIES

FINAL SUBMITTAL  
JULY 7, 2006

DQ-5

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 CHRISTINA HIBBARD  
 CALCULATED/DESIGNED BY: SM BG  
 CHECKED BY: BG  
 DATE: 5/06  
 REVISIONS: 5/06  
 BY: DATE: 5/06  
 REVISIONS: 5/06



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	79	

REGISTERED CIVIL ENGINEER  
 Bo Gao  
 No. C59985  
 Exp. 6/30/06  
 PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
 STANISLAUS  
 COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

RAJAPPAN & MEYER  
 CONSULTING ENGINEERS, INC.  
 1038 LEIGH AVENUE, SUITE 100  
 SAN JOSE, CALIFORNIA 95126

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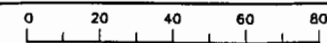
Sheet No.	Drainage System No.	Drainage Unit	Minor Conc		Frames Grates Covers (N)				APC			Pipe Joint Type	750 mm Alternative Flared End Section	Height of Inlet "H" (N)	Maximum Cover (N)	RSP (Backing No. 1, Method B)	GCP Inlet	Remove Culvert	Abandon Culvert	Remove Rock Well	Abandon Rock Well	Remove Inlet	Adjust Frame and Cover to Grade (N)	PCC Lined Ditch (N)	Description	Station	Drainage Plan Sheet No.	Drainage System No.	Drainage Unit
			Minor Structures	Backfill	Misc Construction (N)	Misc Iron and Steel	600-12	600-12X	900R	U45	450 mm																		
20	a	4.54	200	1								RGJ	3.58	2.8										Type G2 (Modified) Inlet	CL-R 116+01.435 5.400 m Rt	D-5	20	a	
	b									78.6														750 mm x 78.6 m APC	CL-R 116+01.435 5.400 m Rt			b	
	c	4.63	200	1								RGJ	3.66	2.8										Type G2 (Modified) Inlet	CL-R 116+80.000 5.400 m Rt			c	
	d									75.0														750 mm x 75.0 m APC	CL-R 116+80.000 5.400 m Rt			d	
	e	4.52	200	1								RGJ	3.56	2.8										Type G2 (Modified) Inlet	CL-R 117+55.000 5.400 m Rt			e	
	f									87.0														750 mm x 87.0 m APC	CL-R 117+55.000 5.400 m Rt	D-5		f	
	g	4.54	200	1								RGJ	3.58	2.8										Type G2 (Modified) Inlet	CL-R 118+42.000 5.400 m Rt	D-6		g	
	h									87.0														750 mm x 87.0 m APC	CL-R 118+42.000 5.400 m Rt			h	
	i	4.45	200	1								RGJ	3.50	2.4										Type G2 (Modified) Inlet	CL-R 119+29.000 5.400 m Rt			i	
	j									86.1														750 mm x 86.1 m APC	CL-R 119+29.000 5.400 m Rt			j	
	k	4.08	200	1								RGJ	3.18	1.8										Type G2 (Modified) Inlet	CL-R 120+15.000 5.400 m Rt			k	
	l									86.7														750 mm x 86.7 m APC	CL-R 120+15.000 5.400 m Rt			l	
20	m	3.42	200	1								RGJ	2.60											Type G2 (Modified) Inlet	CL-R 121+01.844 5.400 m Rt	D-6	20	m	
21	a																						55	PCC Lined Ditch	CL-R 116+25.000 10.849 m Rt	D-5	21	a	
	b																						260	PCC Lined Ditch	CL-R 119+40.000 10.821 m Rt			b	
	c									107														Type GCP Inlet	CL-R 116+80.000 11.294 m Rt			c	
21	d									5.9		RGJ		0.9										450 mm x 5.9 m APC	CL-R 116+80.000 11.294 m Rt	D-5	21	d	
22	a	1.50	148	1								RGJ	1.80											Type G4 Inlet	CL-R 117+55.000 3.440 m Lt	D-5	22	a	
	b									8.8				1.4										450 mm x 8.8 m APC	CL-R 117+55.000 3.440 m Lt			b	
	c																							Adjust Frame and Cover to Grade	CL-L 117+49.331 12.933 m Lt			c	
	d																							Adjust Frame and Cover to Grade	CL-L 117+46.558 11.874 m Lt	D-5		d	
	e																							Adjust Frame and Cover to Grade	CL-L 118+90.821 23.259 m Lt	D-6		e	
	f																							Adjust Frame and Cover to Grade	CL-L 119+10.230 22.913 m Lt			f	
22	g																							Adjust Frame and Cover to Grade	CL-L 118+98.768 11.827 m Lt	D-6	22	g	
Sheet Total		31.68		1655	1	1	7	14.7	500.4							1.04													

DRAINAGE QUANTITIES

FINAL SUBMITTAL  
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DQ-6

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans**

DESIGN OVERSIGHT  
CHRISTINA HIBBARD

CALCULATED/DESIGNED BY	SM	DATE	REVISOR	BY
CHECKED BY	BG	5/06	DATE	REVISED



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	80	

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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Drainage System No.	Drainage Unit	Minor Conc		Frames Grates Covers (N)				APC			Pipe Joint Type	750 mm Alternative Flared End Section	Height of Inlet "H" (N)	Maximum Cover (N)	RSP (Backing No. 1, Method B)	GCP Inlet	Remove Culvert	Abandon Culvert	Remove Rock Well	Abandon Rock Well	Remove Inlet	Adjust Frame and Cover to Grade (N)	PCC Lined Ditch (N)	Description	Station	Drainage Plan Sheet No.	Drainage System No.	Drainage Unit
		EA	M	EA	M	EA	M	EA	M	EA																		
23	a																					142	PCC Lined Ditch	CL-R 119+60.000 10.567 m Rt	D-6	23	a	
	b																					58	PCC Lined Ditch	CL-R 121+60.000 13.741 m Rt			b	
	c			107		1					1.84		1.84															c
	d							8.8	RGJ		2.0																	d
	e																	19.9										e
	f															9.1												f
	g																			1								g
	h																				1							h
	i																				1							i
23	j																				1							j
Sheet Total				107		1		8.8					1.84	9.1	19.9					1	3	200						
Grand Total		109.221	.2924	388700	5	40	6	15	236.81016	0.1140	1				5.85	10.8	9.1	122.1	1	17	8	12	1895					

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**DRAINAGE QUANTITIES**

**DQ-7**

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	81	



REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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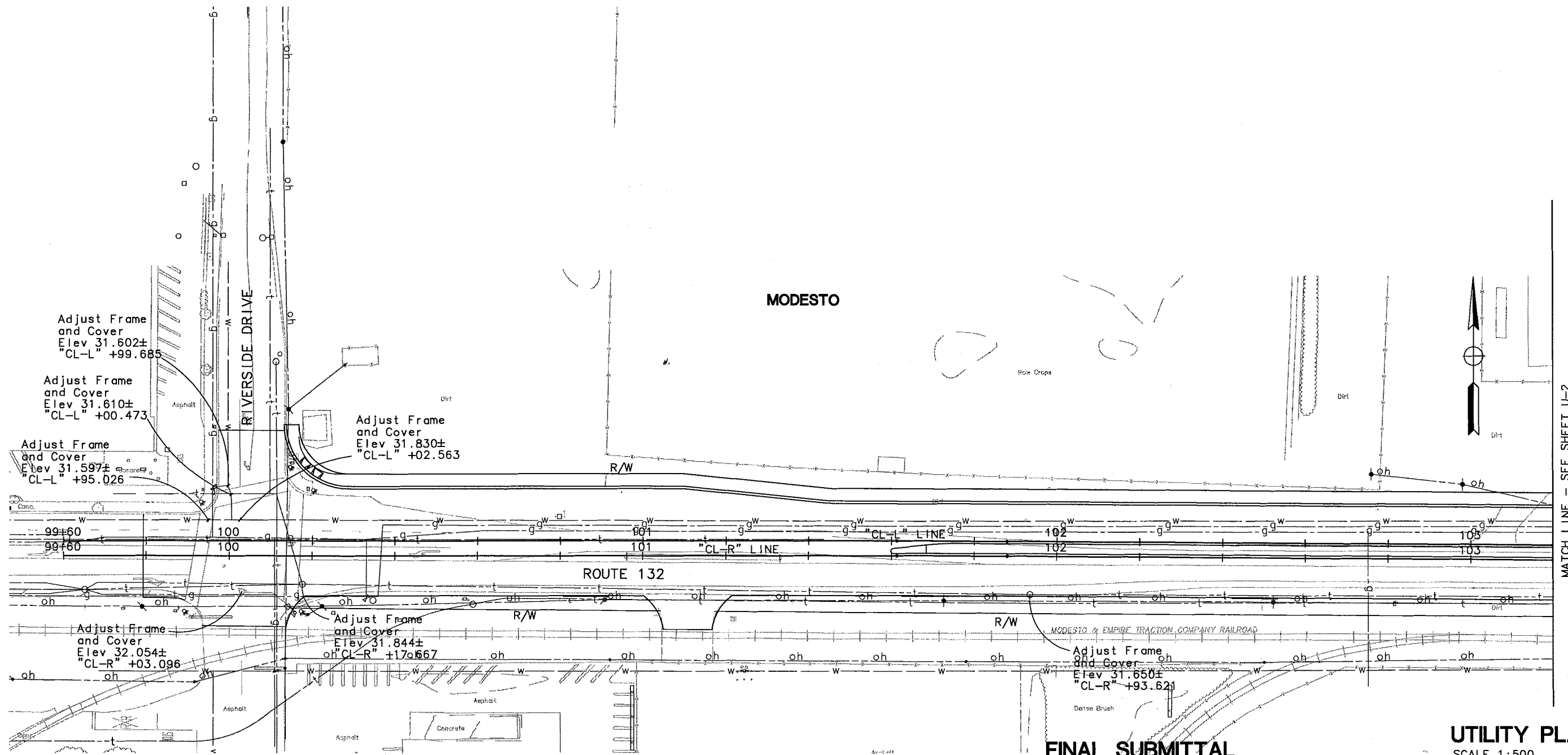
**NOTE:**

1. CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL AND SHALL VERIFY ALL LOCATIONS BEFORE BEGINNING WORK IN IMMEDIATE AREA.
2. ALL ELECTRICAL OVERHEAD AND UNDERGROUND, TELEPHONE, GAS, WATER, AND SANITARY SEWER UTILITIES SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED ON PLANS.
3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES.
4. THE GAS LINES ARE LOW PRESSURE ACCORDING TO PG&E ASBUILTS.

**LEGEND**

- EXISTING
- JT— JOINT TRENCH LINE
  - SEWER MANHOLE
  - ⊗ WATER OR GAS VALVE
  - ☼ STREET LIGHT
  - ⊕ TRAFFIC LIGHT
  - □ ELECTRIC OR TELEPHONE OR STORM DRAINAGE OR STORM SEWER BOX
  - ⊙ TRAFFIC BOX

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 DESIGN OVERSIGHT  
 CHRISTINA HIBBARD  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE 5/06  
 REVISOR BY  
 DATE 5/06  
 BG 5/06

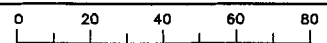


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**JULY 7, 2006**

**UTILITY PLAN**  
SCALE 1:500  
**U-1**

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	82	

REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06  
PROFESSIONAL ENGINEER  
CIVIL  
STATE OF CALIFORNIA

PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

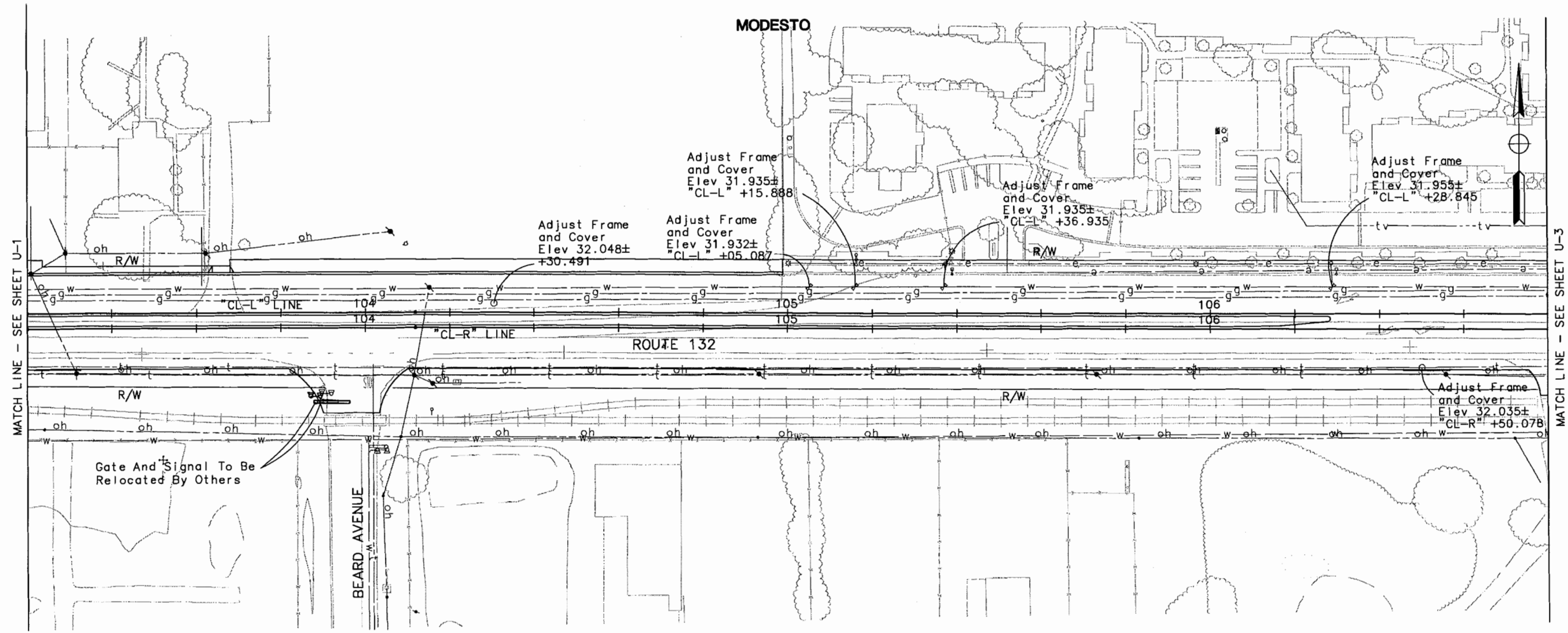
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1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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5/06	BG	5/06			

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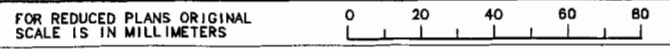


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FINAL SUBMITTAL  
JULY 7, 2006

UTILITY PLAN  
SCALE 1:500  
U-2



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CU 06251

EA 3A1101

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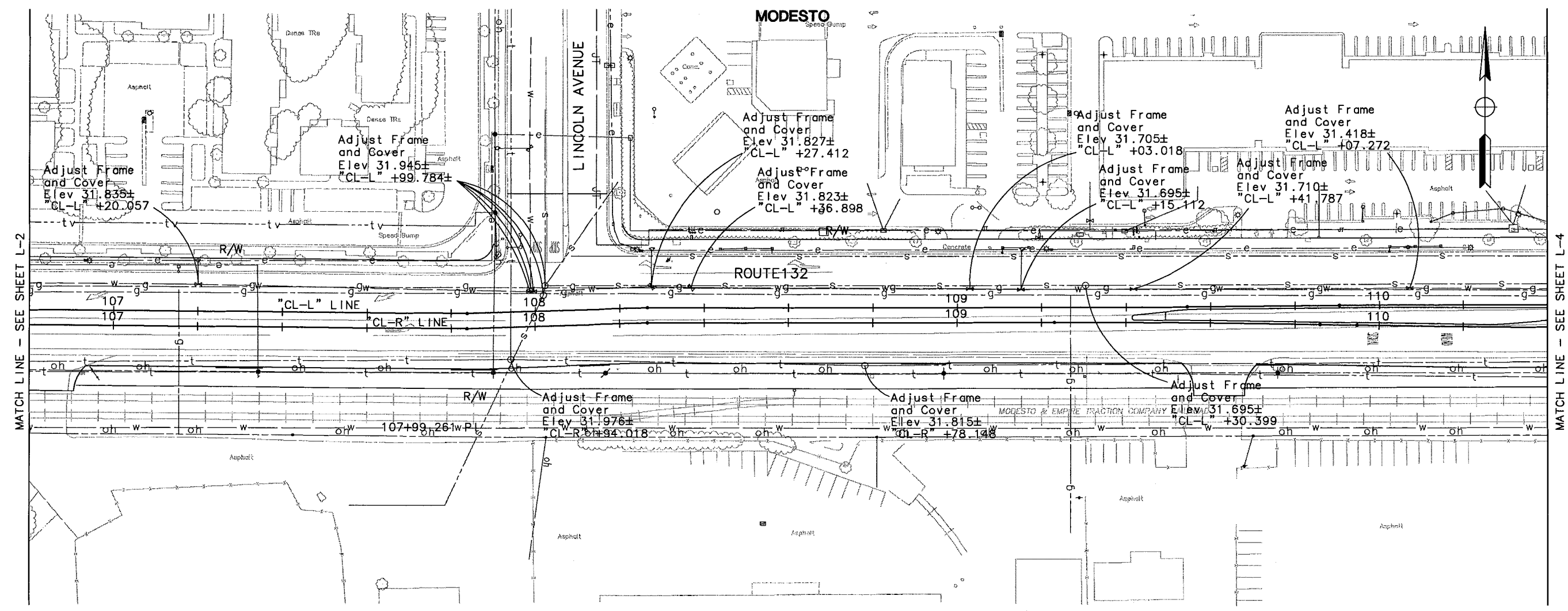
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	83	

REGISTERED CIVIL ENGINEER	
PLANS APPROVAL DATE	
STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354	
RAJAPPAN & MEYER CONSULTING ENGINEERS, INC. 1038 LEIGH AVENUE, SUITE 100 SAN JOSE, CALIFORNIA 95126	
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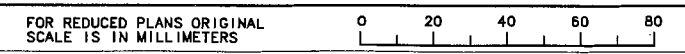


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**JULY 7, 2006**

**UTILITY PLAN**  
 SCALE 1:500  
**U-3**



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CU 06251

EA 3A1101

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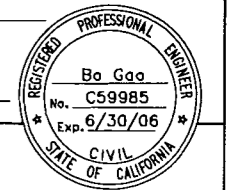
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	84	



REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354



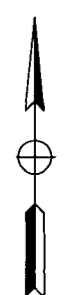
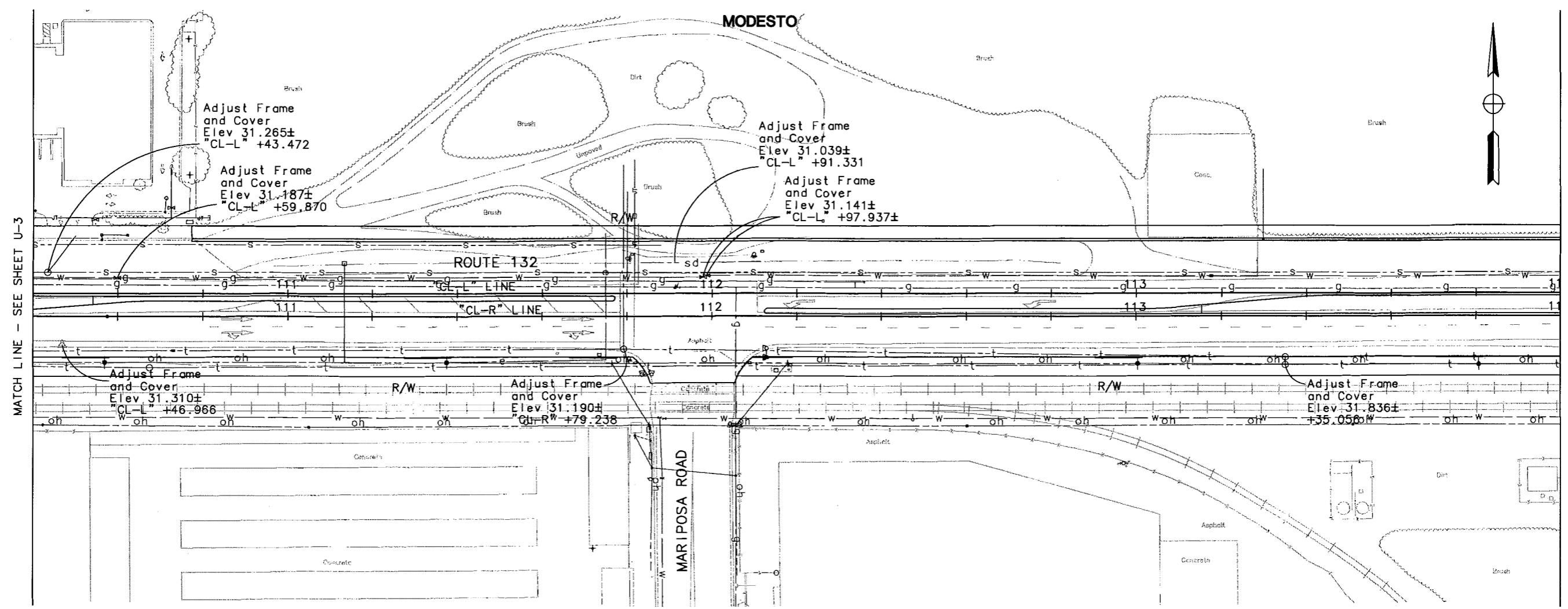
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CONSULTING ENGINEERS, INC.  
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SAN JOSE, CALIFORNIA 95126

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CHRISTINA HIBBARD

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Caltrans

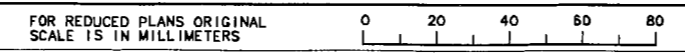


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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1.

FINAL SUBMITTAL  
JULY 7, 2006

UTILITY PLAN  
SCALE 1:500  
U-4



USERNAME -> \$USER  
DGN FILE -> \$REQUEST

CU 06251

EA 3A1101

DATE PLOTTED -> \$DATE  
LAST REVISION  
9-3-04

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	85	



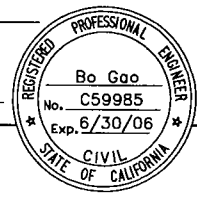
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

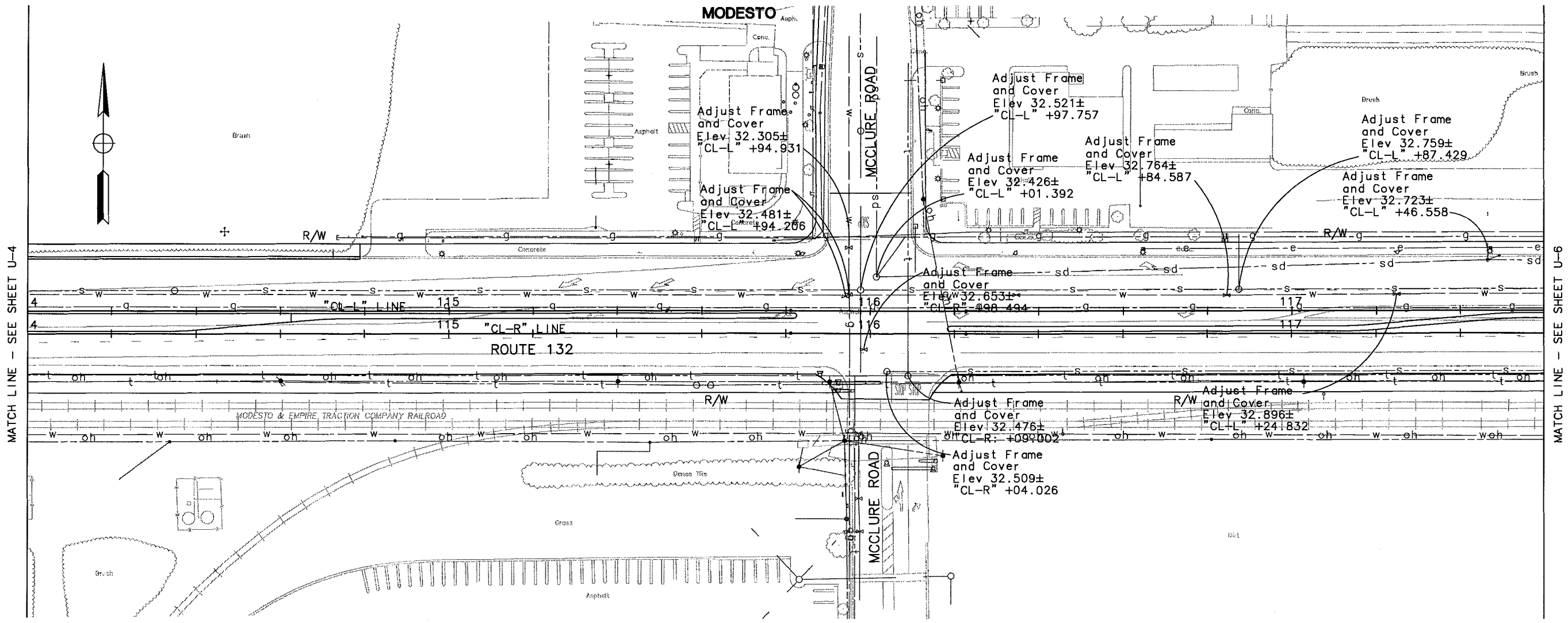
STANISLAUS COUNCIL OF GOVERNMENTS  
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MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
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Christina Hibbard	Christina Hibbard				5/06			5/06
		CHECKED BY	BC					



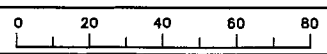
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FINAL SUBMITTAL  
JULY 7, 2006

UTILITY PLAN  
SCALE 1:500  
U-5

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DGN FILE => \$REQUEST

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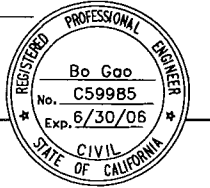
EA 3A1101

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\$TIME  
LAST REVISION  
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	96	

REGISTERED CIVIL ENGINEER



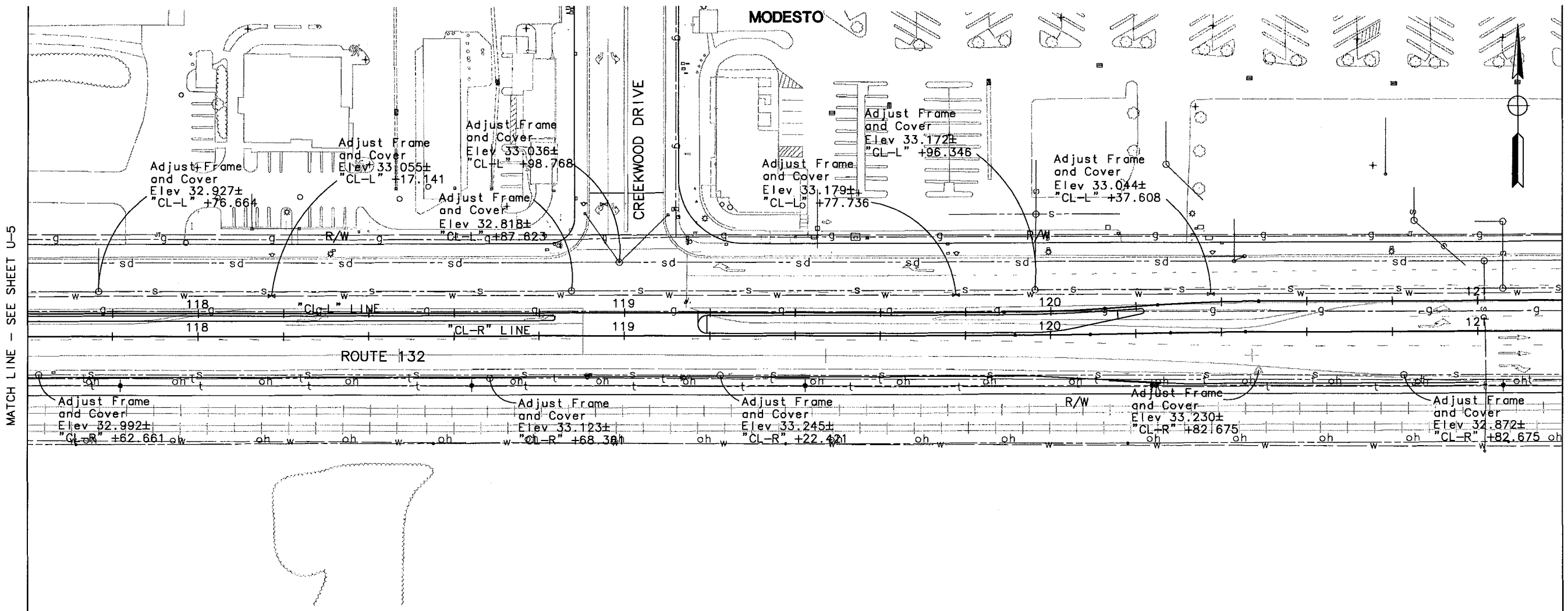
PLANS APPROVAL DATE

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CALCULATED/DESIGNED BY	CHECKED BY	DATE
CHRISTINA HIBBARD		
DESIGN OVERSIGHT		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		

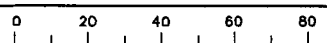


MATCH LINE - SEE SHEET U-5

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JULY 7, 2006

UTILITY PLAN  
SCALE 1:500  
U-6

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	87	



**LEGEND**

Construct this Stage

**TRAFFIC:**

- A** Maintain existing traffic condition for eastbound Route 132.
- B** Maintain existing traffic condition for westbound Route 132.

**NOTES**

1. Work not required for traffic handling will be completed according to Lane Requirement Charts and is not shown.
2. For details on traffic handling of stage construction, see Traffic Handling plans.

**CONSTRUCTION:**

- ① Construct drainage laterals half width at a time during offpeak hours.

REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06  
CIVIL ENGINEER  
STATE OF CALIFORNIA

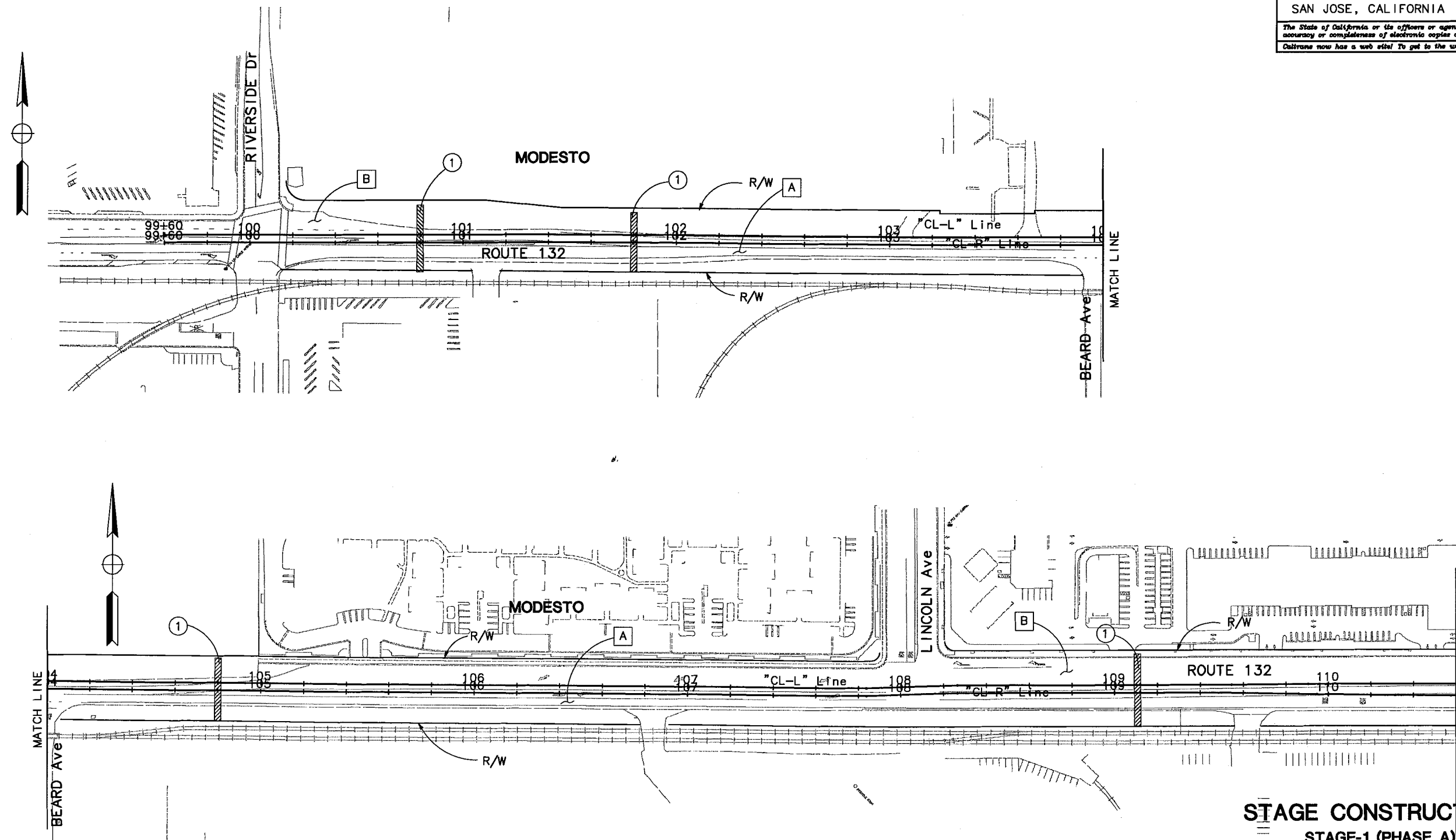
PLANS APPROVAL DATE

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 CHECKED BY: BG  
 DATE REVISION: 5/06  
 DATE REVISION: 5/06



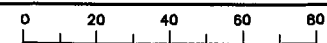
**STAGE CONSTRUCTION**  
STAGE-1 (PHASE A)

**FINAL SUBMITTAL**  
JULY 7, 2006

NO SCALE  
SC-1

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	88	

**TRAFFIC:**

- A Maintain one-lane traffic for eastbound Route 132.
- B Maintain existing traffic condition for westbound Route 132.

**CONSTRUCTION:**

- 1 Construct drainage inlets, PCC lined ditch.
- 2 Sawcut existing pavement for removal.
- 3 Construct new pavement for eastbound Route 132.

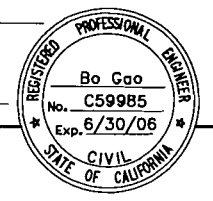
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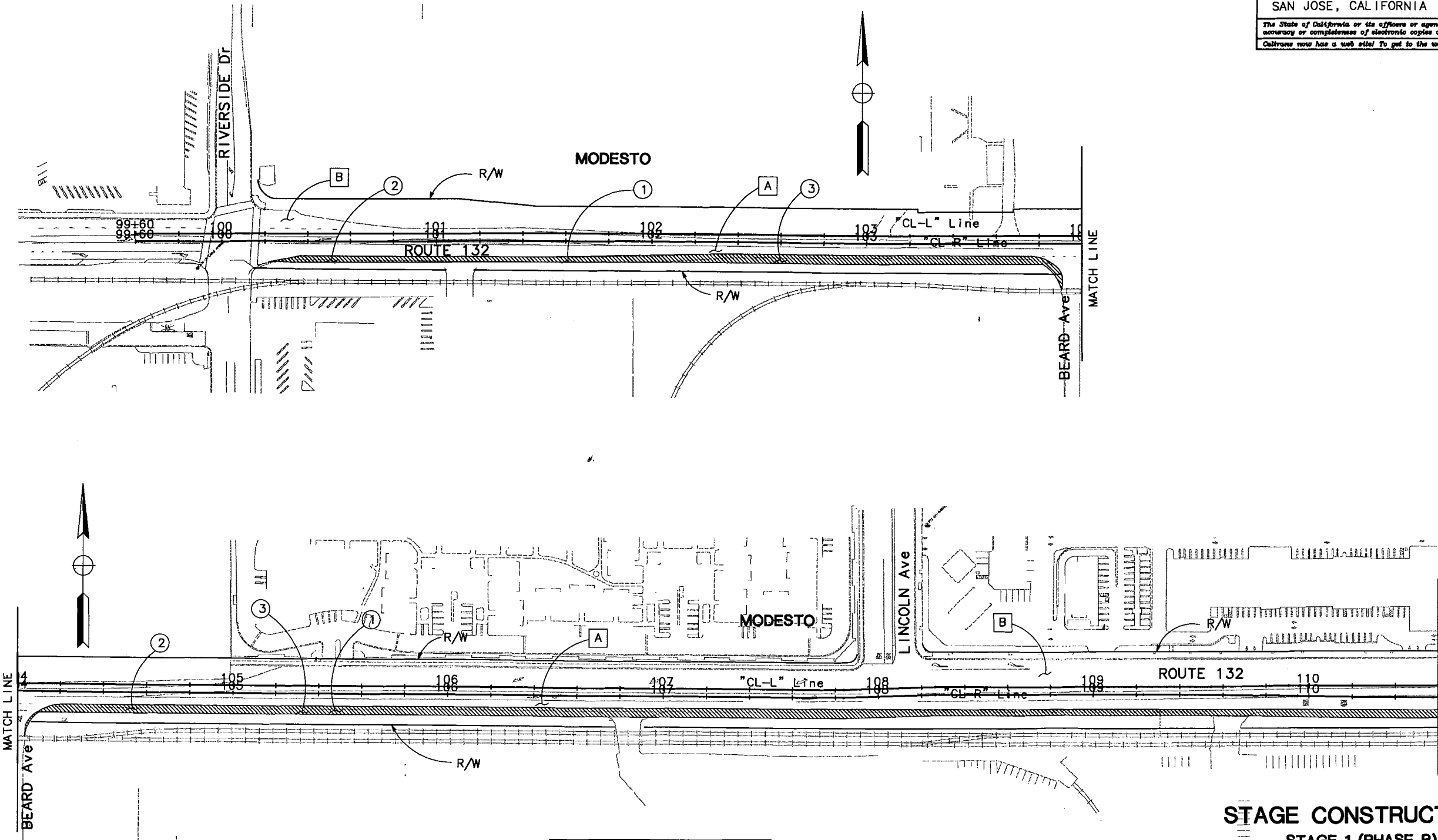
CALCULATED/DESIGNED BY	CHECKED BY

DESIGN OVERSIGHT
CHRISTINA HIBBARD

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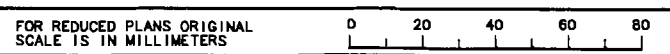


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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SC-1.

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**STAGE CONSTRUCTION**  
**STAGE-1 (PHASE B)**  
NO SCALE  
**SC-2**



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 CALCULATED/DESIGNED BY: [ ]  
 CHECKED BY: [ ]  
 DATE REVISED BY: [ ]  
 DATE 3/05  
 BG 3/05 DATE REVISED: [ ]

**TRAFFIC:**

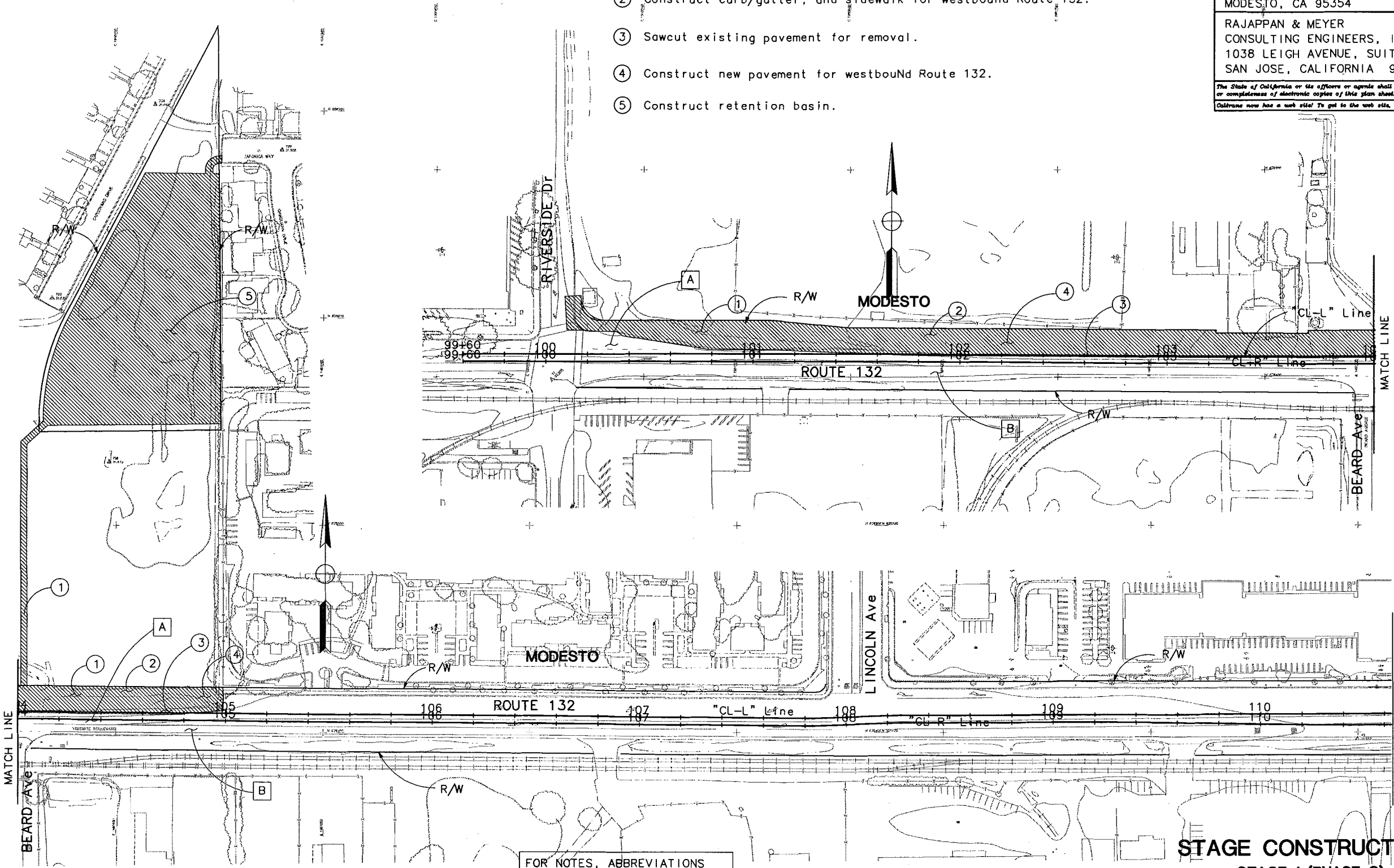
- A** Maintain one-lane traffic for westbound Route 132.
- B** Maintain existing traffic configuration for eastbound Route 132.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/32.0	89	
REGISTERED CIVIL ENGINEER					
PLANS APPROVAL DATE					
STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354					
RAJAPPAN & MEYER CONSULTING ENGINEERS, INC. 1038 LEIGH AVENUE, SUITE 100 SAN JOSE, CALIFORNIA 95126					
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**CONSTRUCTION:**

- ① Construct drainage inlets, drainage manholes, and drainage pipe.
- ② Construct curb/gutter, and sidewalk for westbound Route 132.
- ③ Sawcut existing pavement for removal.
- ④ Construct new pavement for westbound Route 132.
- ⑤ Construct retention basin.



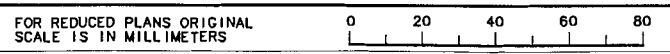
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SC-1.

**STAGE CONSTRUCTION**  
 STAGE-1 (PHASE C)  
 NO SCALE

**FINAL SUBMITTAL**  
 JULY 7, 2005

**SC-3**

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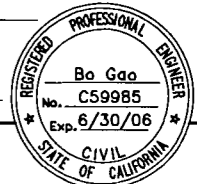
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/32.0	90	

REGISTERED CIVIL ENGINEER



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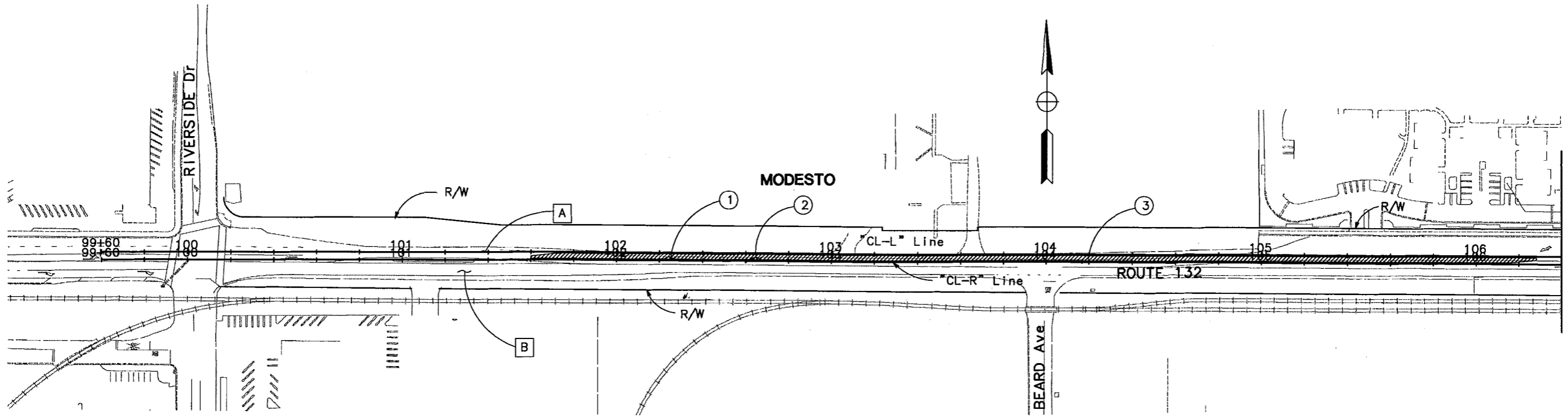
**TRAFFIC:**

- A Maintain one-lane traffic for westbound Route 132.
- B Maintain one-lane traffic for eastbound Route 132.

**CONSTRUCTION:**

- ① Remove existing median.
- ② Sawcut existing pavement for removal.
- ③ Construct median.
- ④ Remove existing AC pavement

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 CALCULATED/DESIGNED BY  
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 DATE 3/05  
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 DATE 3/05  
 REVISOR DATE  
 BG 3/05



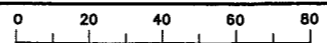
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**STAGE CONSTRUCTION**  
**STAGE-1 (PHASE D)**  
 NO SCALE  
**SC-4**

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 DATE 3/05  
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 DATE 3/05  
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/32.0	91	

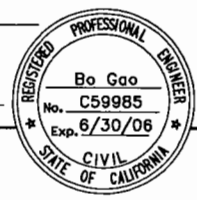
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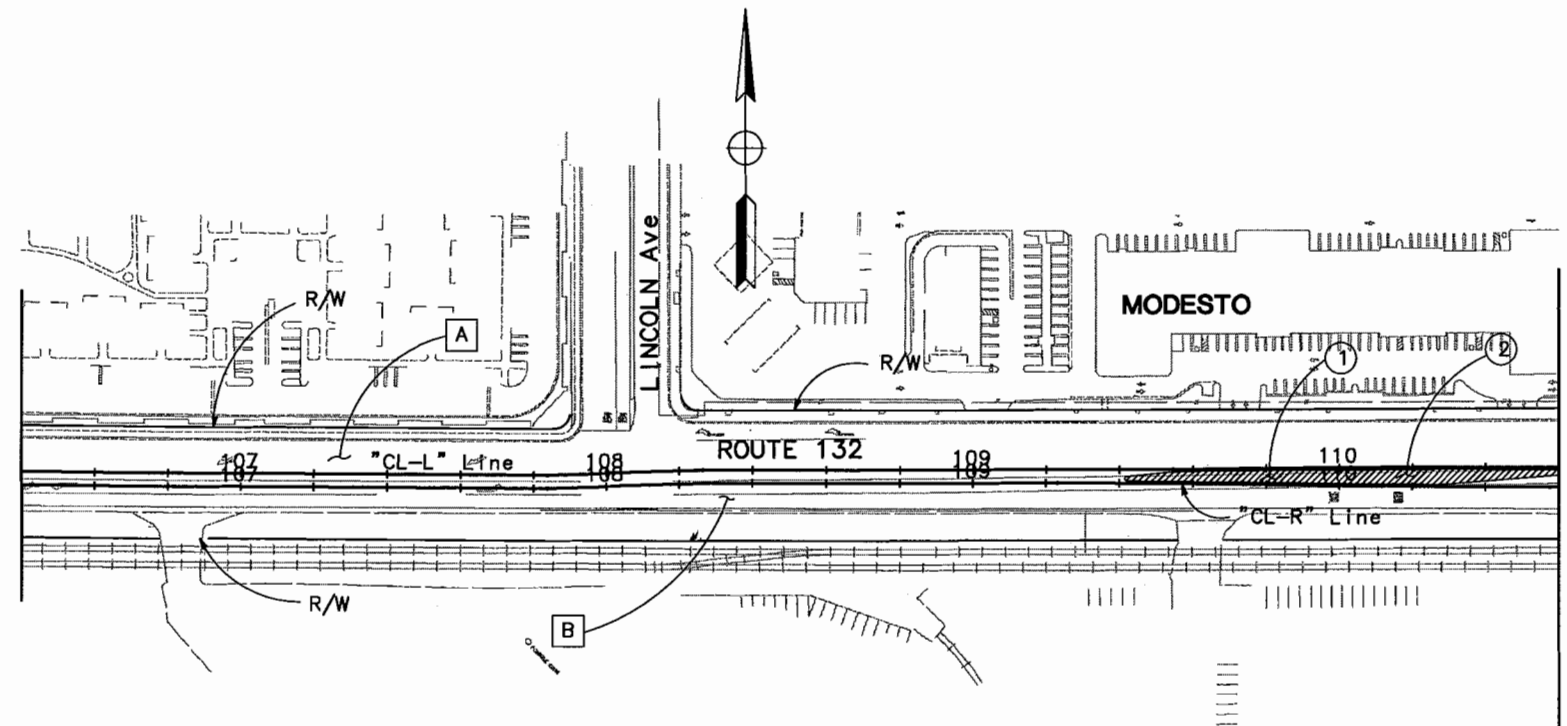


**TRAFFIC:**

- A Maintain one-lane traffic for westbound Route 132.
- B Maintain one-lane traffic for eastbound Route 132.

**CONSTRUCTION:**

- 1 Sawcut existing pavement for removal.
- 2 Construct median.
- 3 Remove existing AC pavement



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**STAGE CONSTRUCTION**  
**STAGE-1 (PHASE E)**  
 NO SCALE  
**SC-5**

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/32.0	92	

REGISTERED CIVIL ENGINEER

Bo Gao  
 No. C59985  
 Exp. 6/30/06  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
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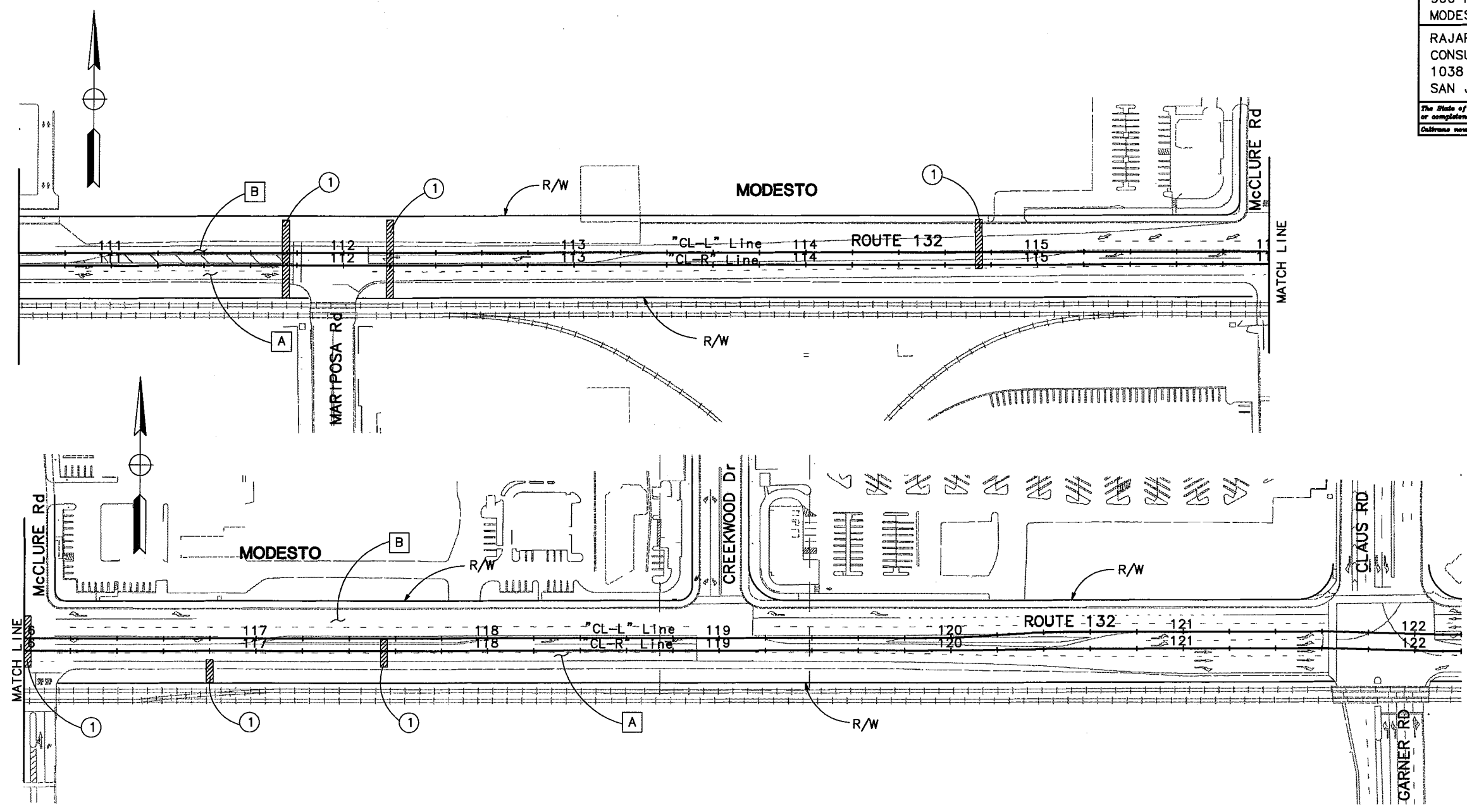
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**TRAFFIC:**

- A Maintain existing traffic condition for eastbound Route 132.
- B Maintain existing traffic condition for westbound Route 132.

**CONSTRUCTION:**

- 1 Construct drainage laterals half length at a time during offpeak hours.

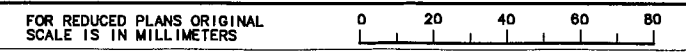


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**STAGE CONSTRUCTION**  
**STAGE-2 (PHASE A)**  
 NO SCALE  
**SC-6**



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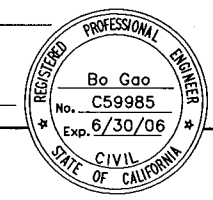
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/32.0	93	



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MODESTO, CA 95354



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CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

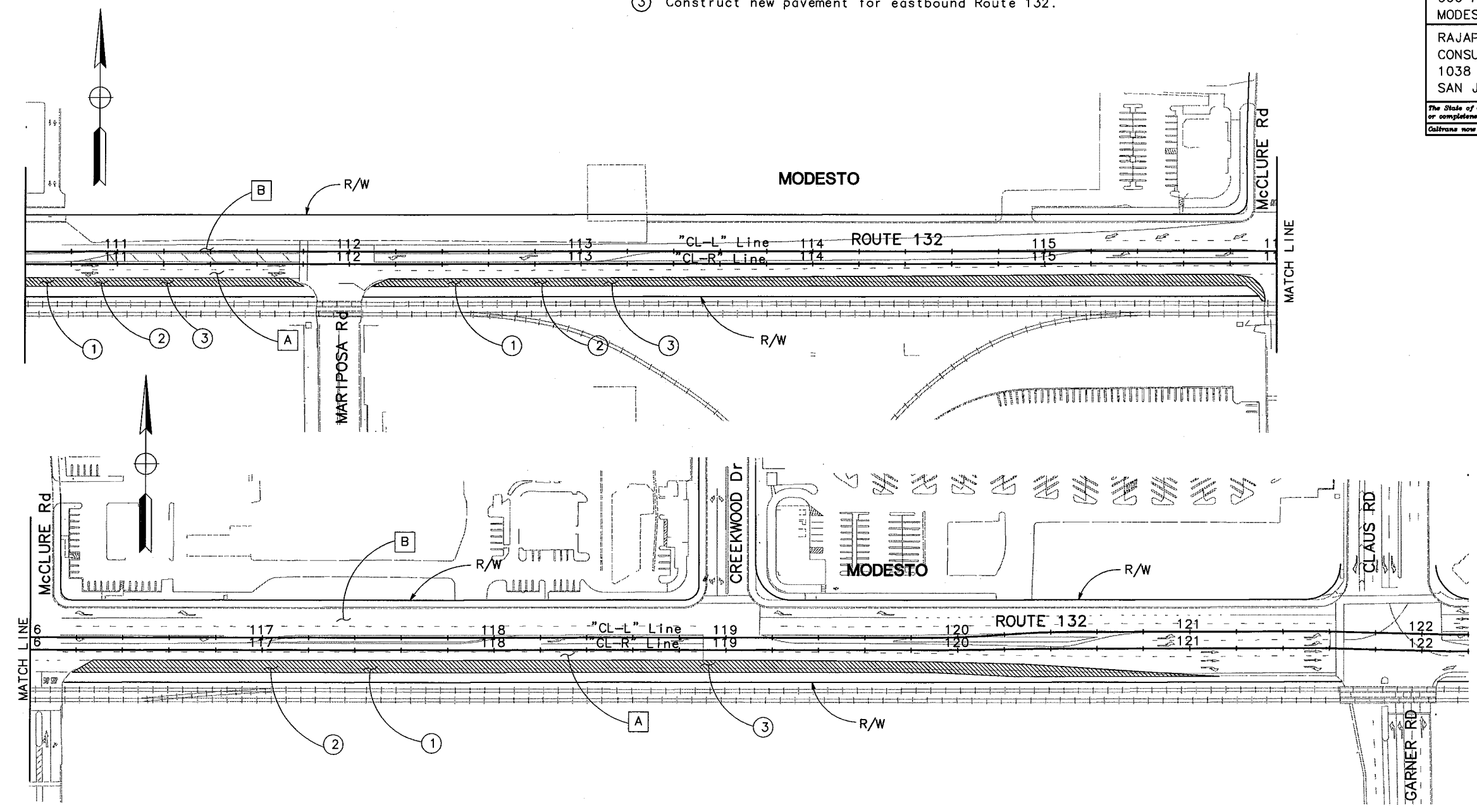
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**TRAFFIC:**

- A Maintain minimum 6.6 m for two-lane traffic for eastbound Route 132.
- B Maintain existing traffic configuration for westbound Route 132.

**CONSTRUCTION:**

- 1 Construct drainage inlets, and PCC lined ditch.
- 2 Sawcut existing pavement for removal.
- 3 Construct new pavement for eastbound Route 132.

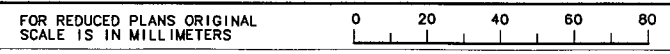


FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SC-1.

**STAGE CONSTRUCTION**  
STAGE-2 (PHASE B)  
NO SCALE

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**JULY 7, 2005**

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/32.0	94	



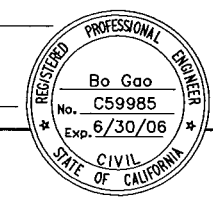
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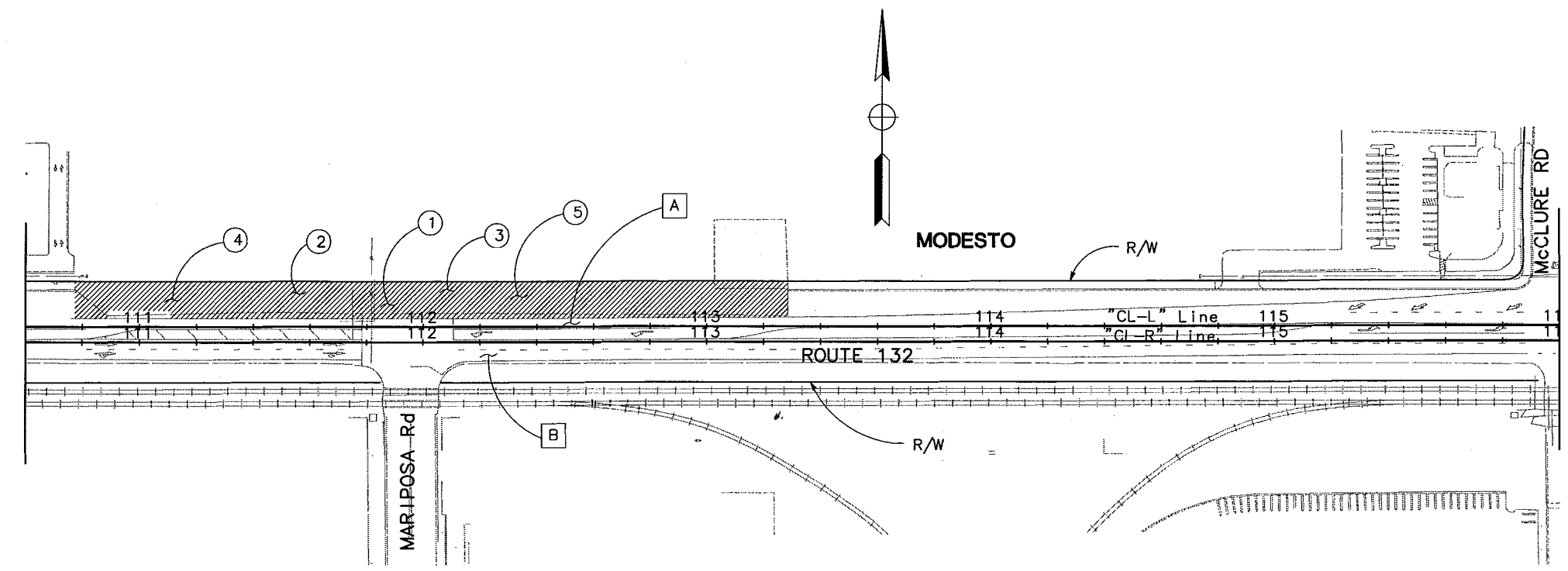


**TRAFFIC:**

- A** Maintain one-lane traffic for westbound Route 132.
- B** Maintain existing traffic configuration for eastbound Route 132.

**CONSTRUCTION:**

- ① Remove existing drainage, abandon rock well.
- ② Construct drainage inlets, drainage manholes, and drainage pipe.
- ③ Construct curb/gutter, and sidewalk of westbound Route 132.
- ④ Sawcut existing pavement for removal.
- ⑤ Construct new pavement for eastbound Route 132.

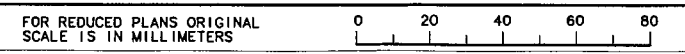


FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SC-1.

**STAGE CONSTRUCTION**  
STAGE-2 (PHASE C)  
NO SCALE  
**SC-8**

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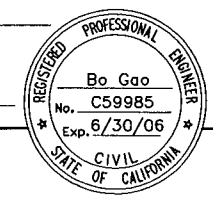


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/32.0	95	

REGISTERED CIVIL ENGINEER

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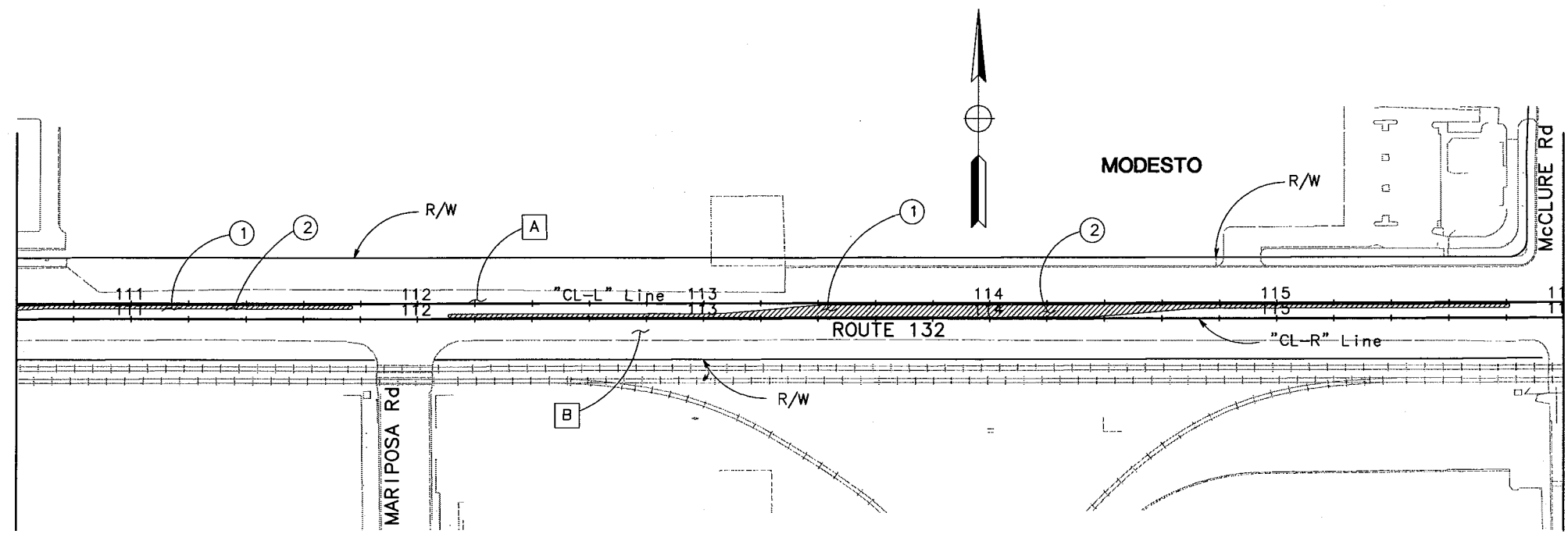
**TRAFFIC:**

- A** Maintain one-lane traffic for westbound Route 132.
- B** Maintain one-lane traffic for eastbound Route 132.

**CONSTRUCTION:**

- ① Sawcut existing pavement for removal.
- ② Construct median.
- ③ Remove existing AC pavement

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN OVERSIGHT	CALCULATED/DESIGNED BY	DATE	REVISOR	BY	DATE
	HASSAN MAREI	CHECKED BY	BG	3/05		3/05
Caltrans						



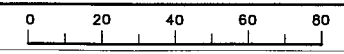
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SC-1.

**STAGE CONSTRUCTION**  
STAGE-2 (PHASE D)  
NO SCALE

**FINAL SUBMITTAL**  
**JULY 7, 2005**

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
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 HASSAN MAREI  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE 3/05  
 REVISED BY  
 DATE 3/05  
 BG  
 REVISED DATE



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/32.0	96	

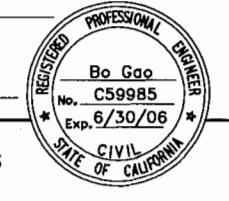
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

RAJAPPAN & MEYER  
 CONSULTING ENGINEERS, INC.  
 1038 LEIGH AVENUE, SUITE 100  
 SAN JOSE, CALIFORNIA 95126

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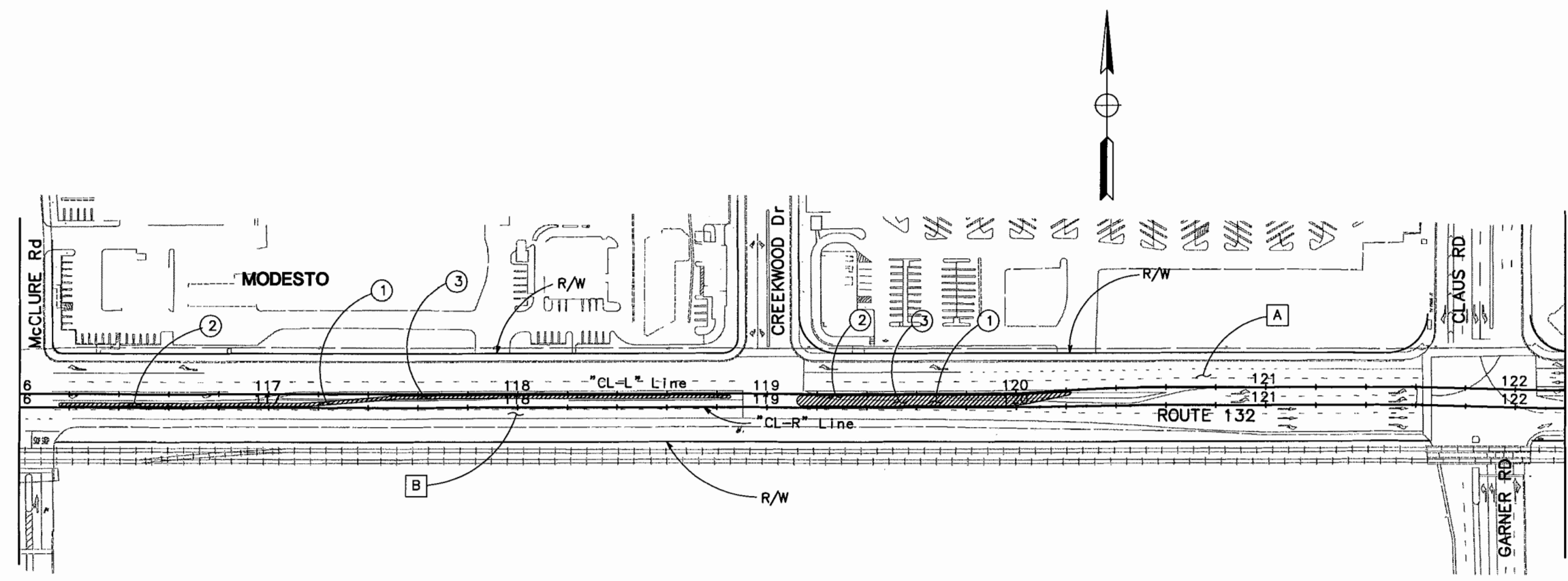


**TRAFFIC:**

- A Maintain one-lane traffic for westbound Route 132.
- B Maintain one-lane traffic for eastbound Route 132.

**CONSTRUCTION:**

- 1 Remove existing median.
- 2 Sawcut existing pavement for removal.
- 3 Construct median.
- 4 Remove existing AC pavement

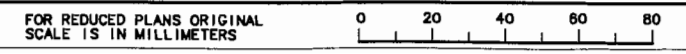


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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SC-1.

**FINAL SUBMITTAL**  
**JULY 7, 2005**

**STAGE CONSTRUCTION**  
**STAGE-2 (PHASE E)**  
 NO SCALE  
**SC-10**



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 DGN FILE => \$REQUEST

CU 06251

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DATE PLOTTED => \$DATE  
 \$TIME  
 LAST REVISION  
 9-3-04

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	97	



REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06  
PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA



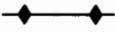





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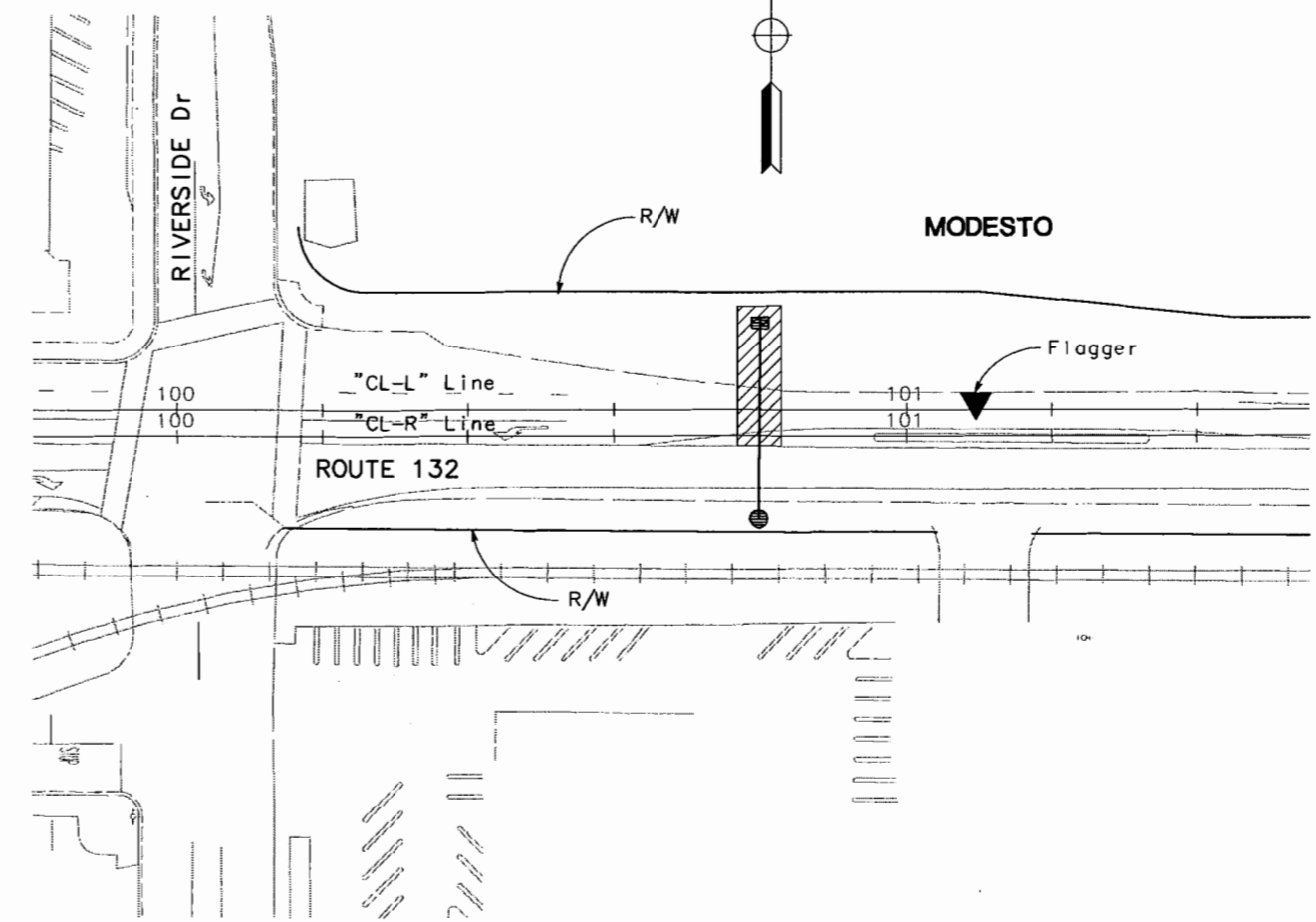
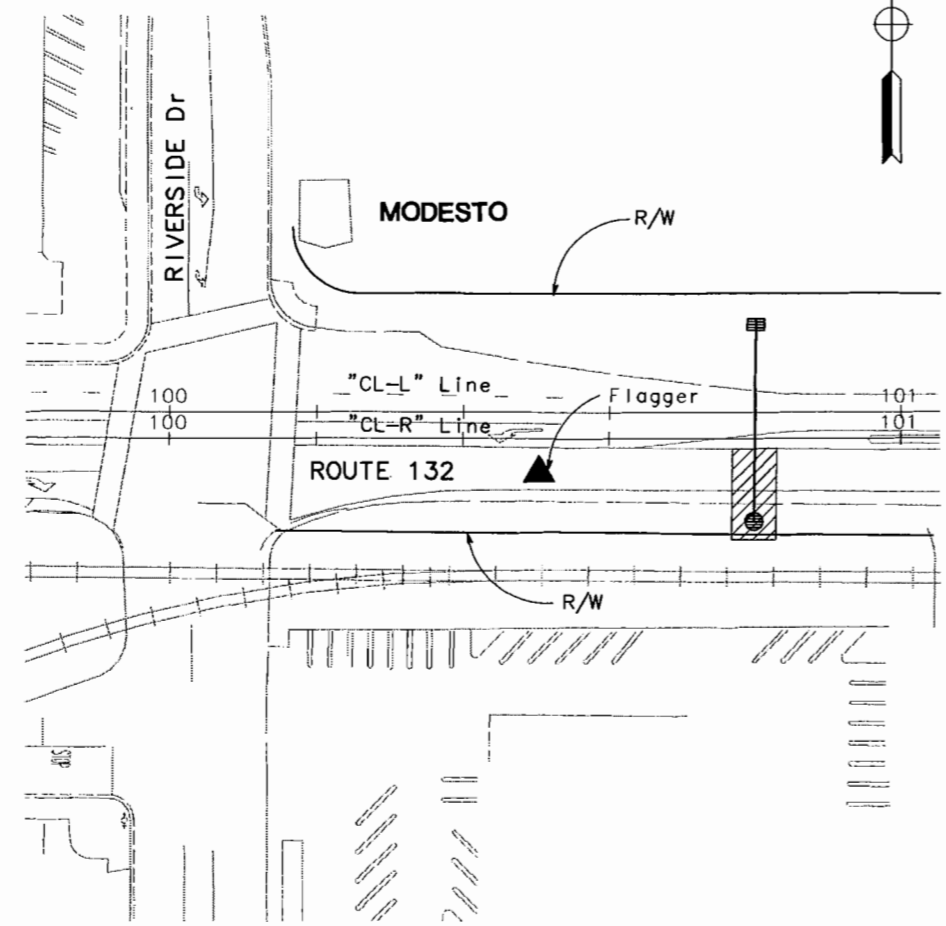
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**LEGEND**

-  Construct This Stage
-  Direction of Travel
-  Temporary Railing (Type K)
-  Limit of Pavement Delineation
-  Temporary Crash Cushion Modules (Array as Noted)
-  Temporary Pavement Delineation Detail No.
-  Channelizer (Surface Mounted)
-  Final Pavement Delineation (See PD Plans)



**NOTES**

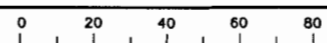
1. Construction Area Signs are shown for Stage Construction and are additional to those shown on CS sheets.
2. Refer to Pavement Delineation Plans for Final Pavement Delineation (F).
3. Traffic Handling Plans do not show all work required to be completed. Work not necessary for Traffic Handling will be completed according to Lane Requirement Charts and is not shown.
4. K-rail Flare shall be at 1:10 or flatter.
5. K-rail within 3 m of Traffic Lane shall have Reflectors installed on top of the rail at 14.64 m intervals.

This Plan Accurates For Traffic Handling Only.  
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**TRAFFIC HANDLING PLAN**  
STAGE - 1, 2, 3 (PHASE A)  
SCALE 1:500  
**TH-1**

**FINAL SUBMITTAL**  
**JULY 7, 2006**

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT  
CHRSTINA HIBBARD

REVISIONS:

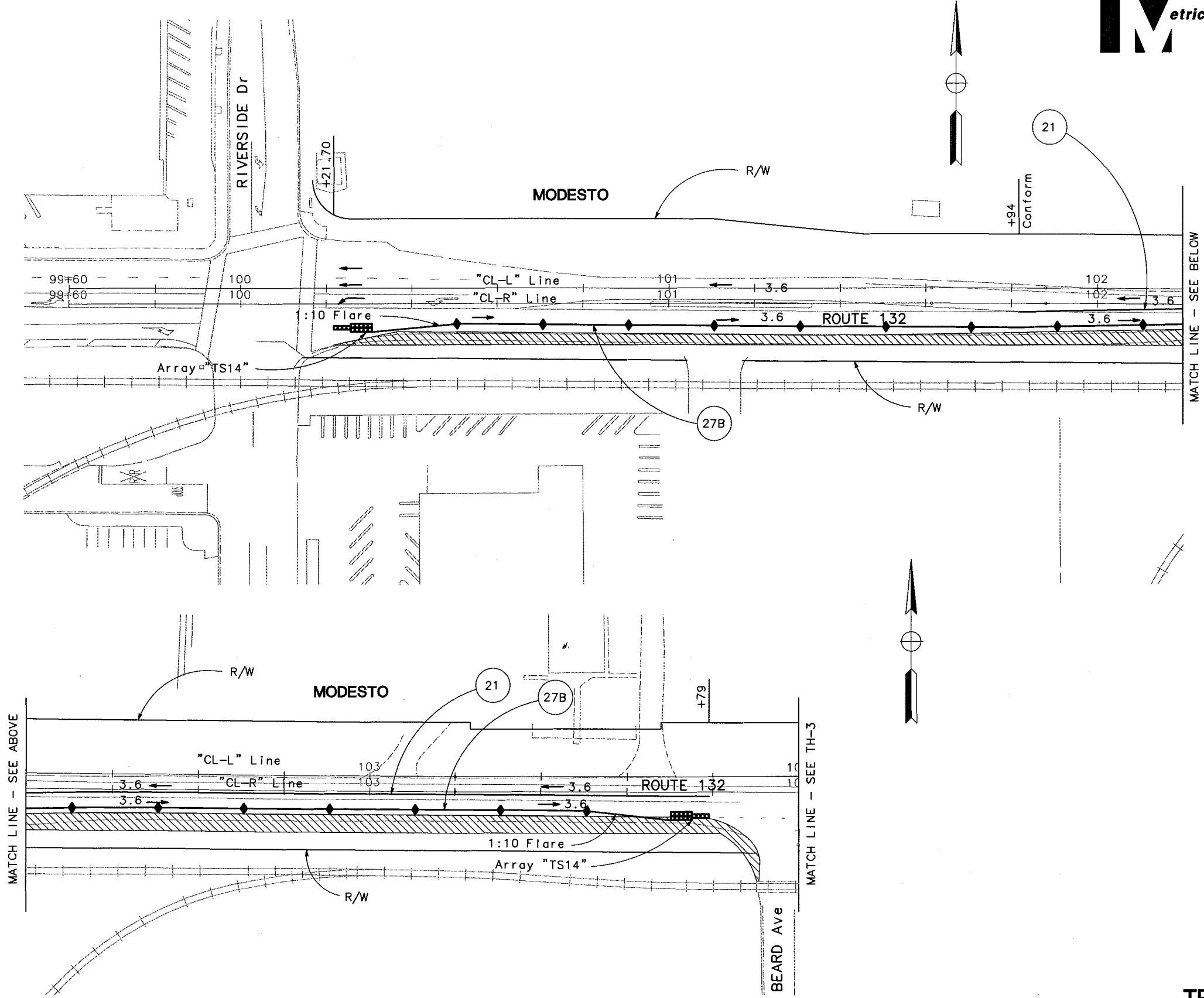
NO.	DATE	BY	REVISION
1	5/06	BG	
2	5/06		

REVISOR: BY DATE

DATE: 5/06

DATE PLOTTED -> \$DATE  
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9-3-04

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN OVERSIGHT	CALCULATED/DESIGNED BY	DATE REVISED BY
Christina Hibbard	CHRISTINA HIBBARD	BG	5/06
		CHECKED BY	DATE REVISED



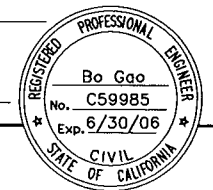
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	98	

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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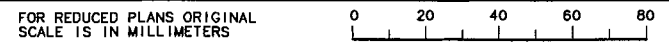
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TRAFFIC HANDLING PLAN  
STAGE-1 (PHASE B)  
SCALE 1:500  
TH-2



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DGN FILE => \$REQUEST

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DATE PLOTTED => \$DATE \$TIME  
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	99	



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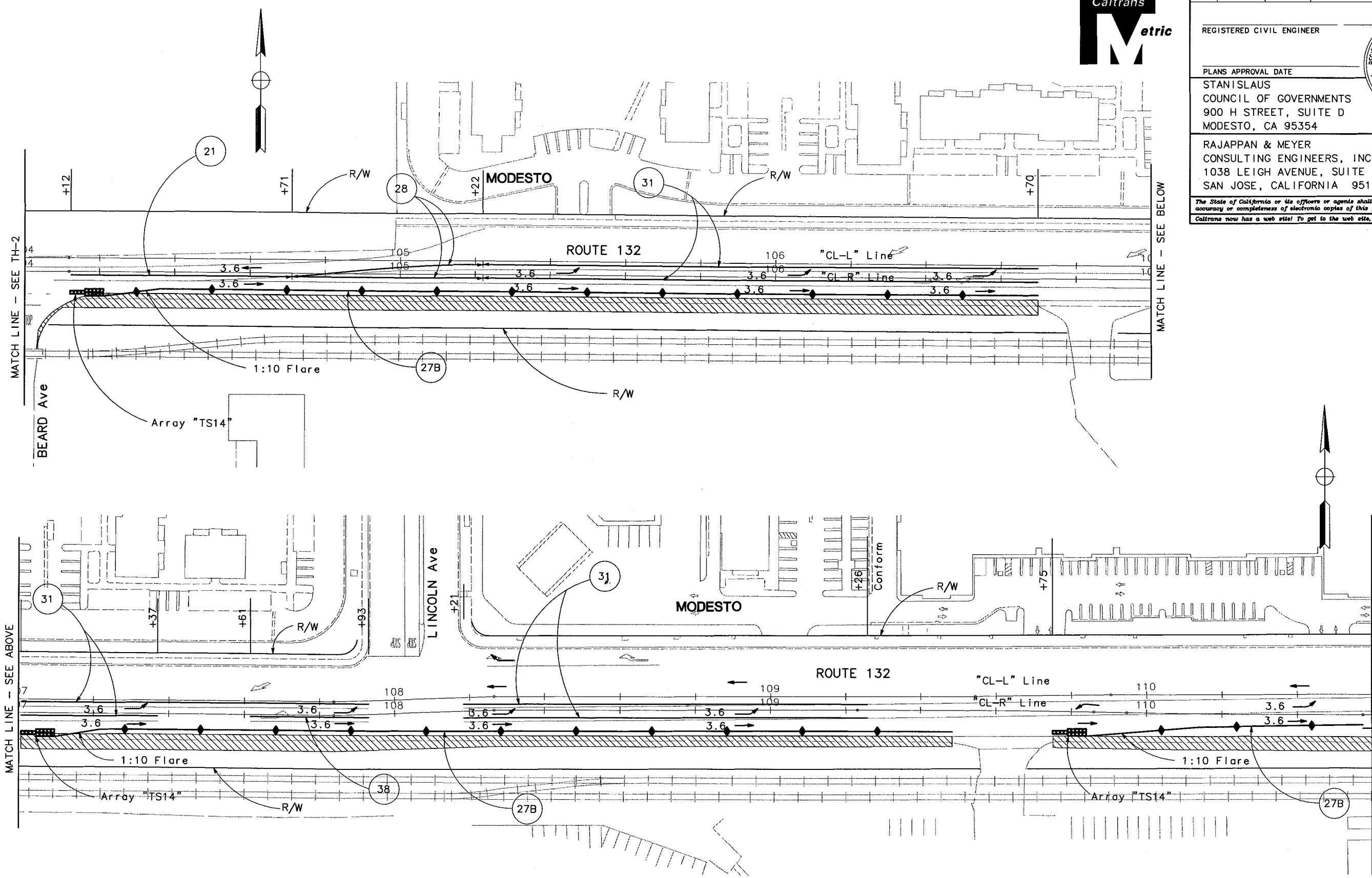
DESIGN OVERSIGHT  
CHRSTINA HIBBARD

CALCULATED/DESIGNED BY  
BG

REVISOR  
BY

DATE  
5/06

DATE  
5/06

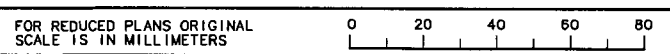


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TRAFFIC HANDLING PLAN  
STAGE-1 (PHASE B)  
SCALE 1:500  
TH-3



USERNAME => \$USER  
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 CHECKED BY: [ ]  
 DATE: 5/06  
 REVISOR: [ ]  
 DATE: 5/06



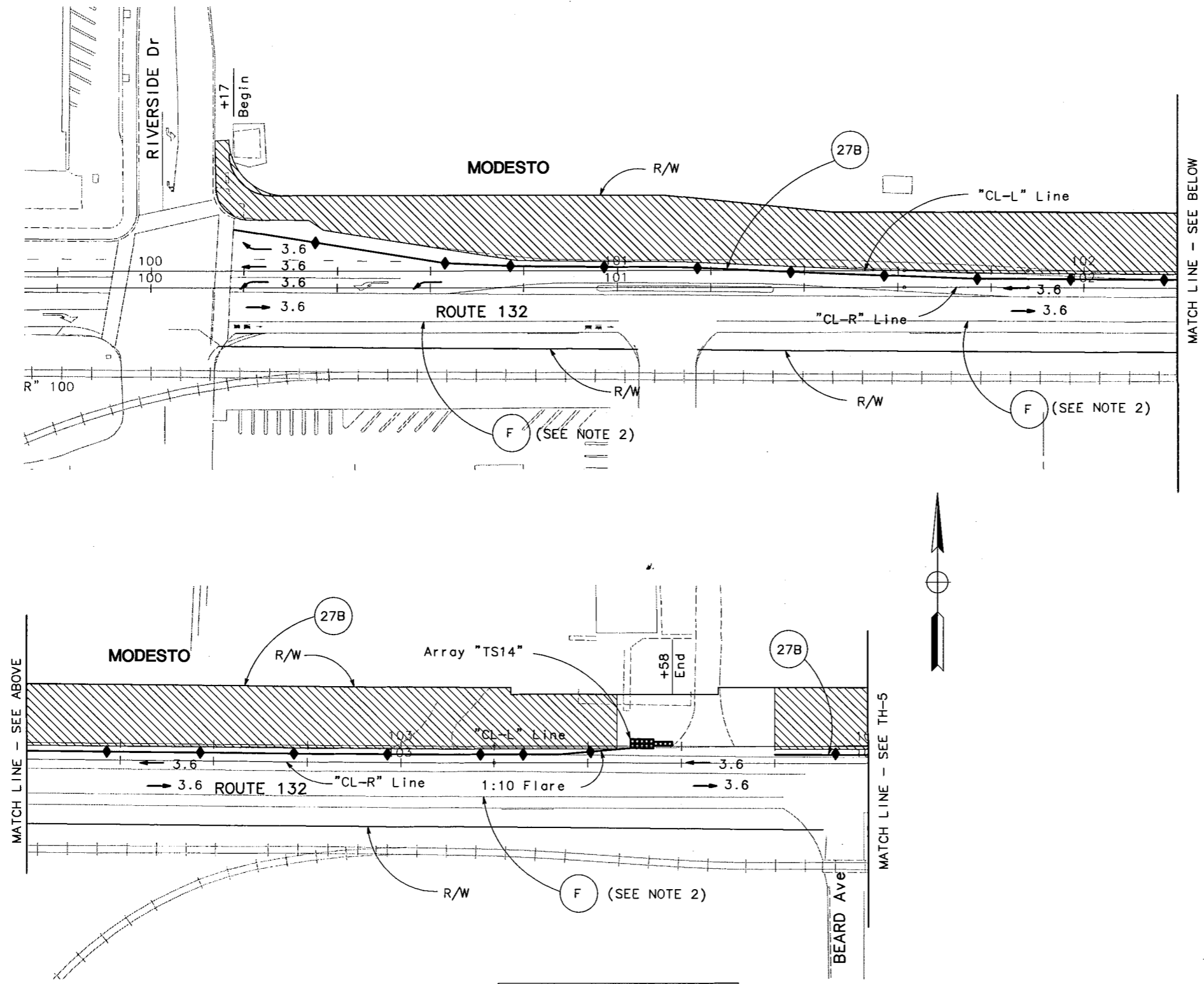
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10	STA	132	28.4/30.7	100	

REGISTERED CIVIL ENGINEER  
**Bo Gao**  
 No. C59985  
 Exp. 6/30/06  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA

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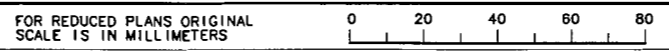


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**FINAL SUBMITTAL**  
**JULY 7, 2006**

**TRAFFIC HANDLING PLAN**  
 STAGE-1 (PHASE C)  
 SCALE 1:500  
**TH-4**



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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	101	



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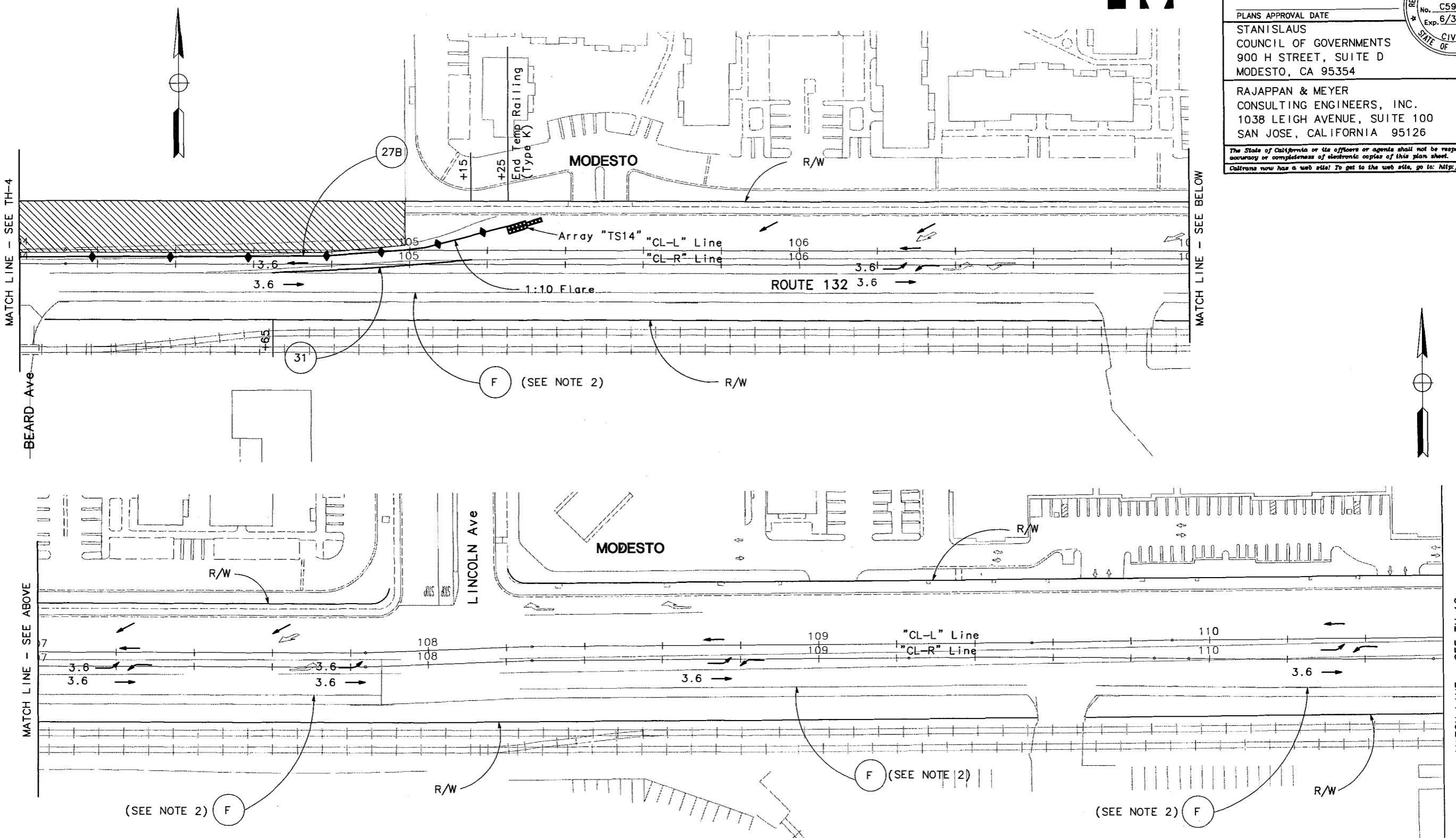
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CHRISTINA HIBBARD	CHRISTINA HIBBARD	BG	5/06	BG	5/06
		CHECKED BY		DATE	REVISOR

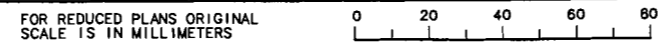


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 AND LEGEND, SEE SHEET TH-1.

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**JULY 7, 2006**

**TRAFFIC HANDLING PLAN**  
**STAGE-1 (PHASE C)**  
 SCALE 1:500  
**TH-5**



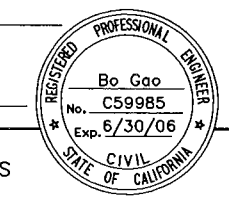
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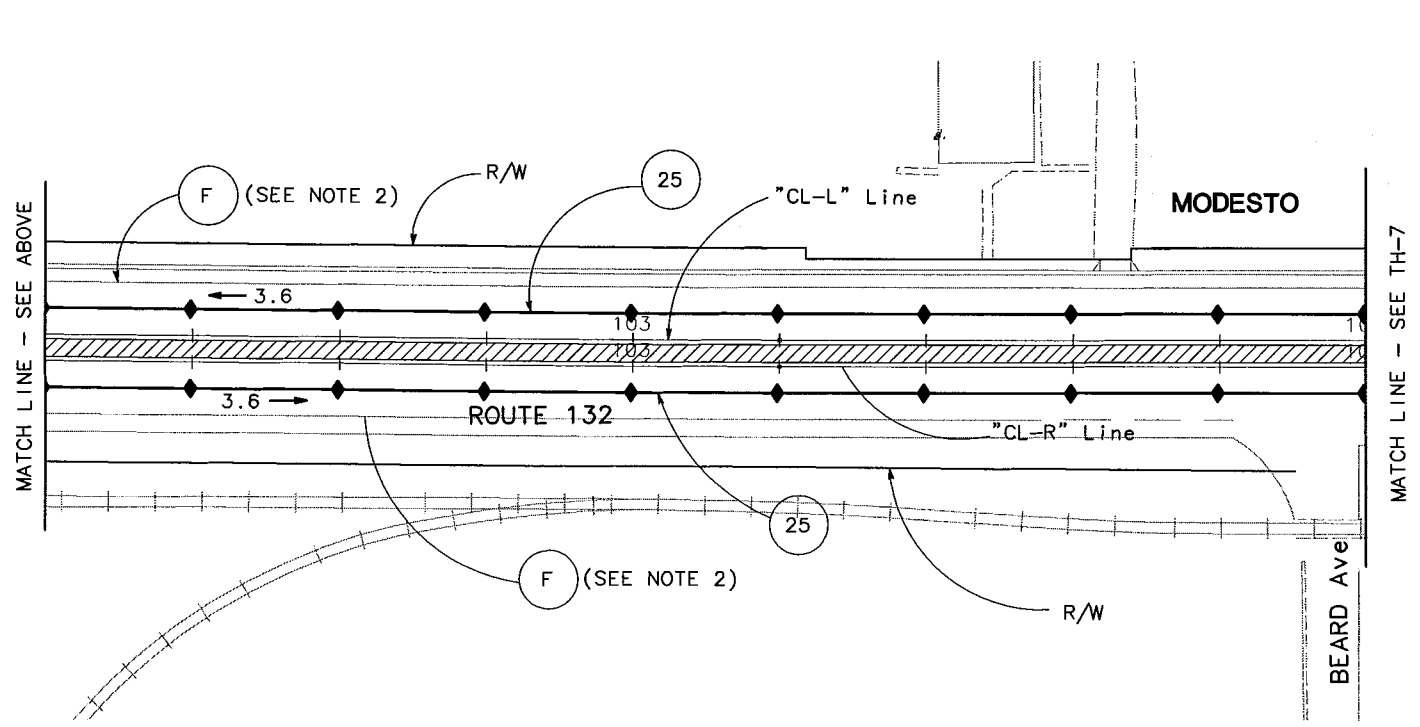
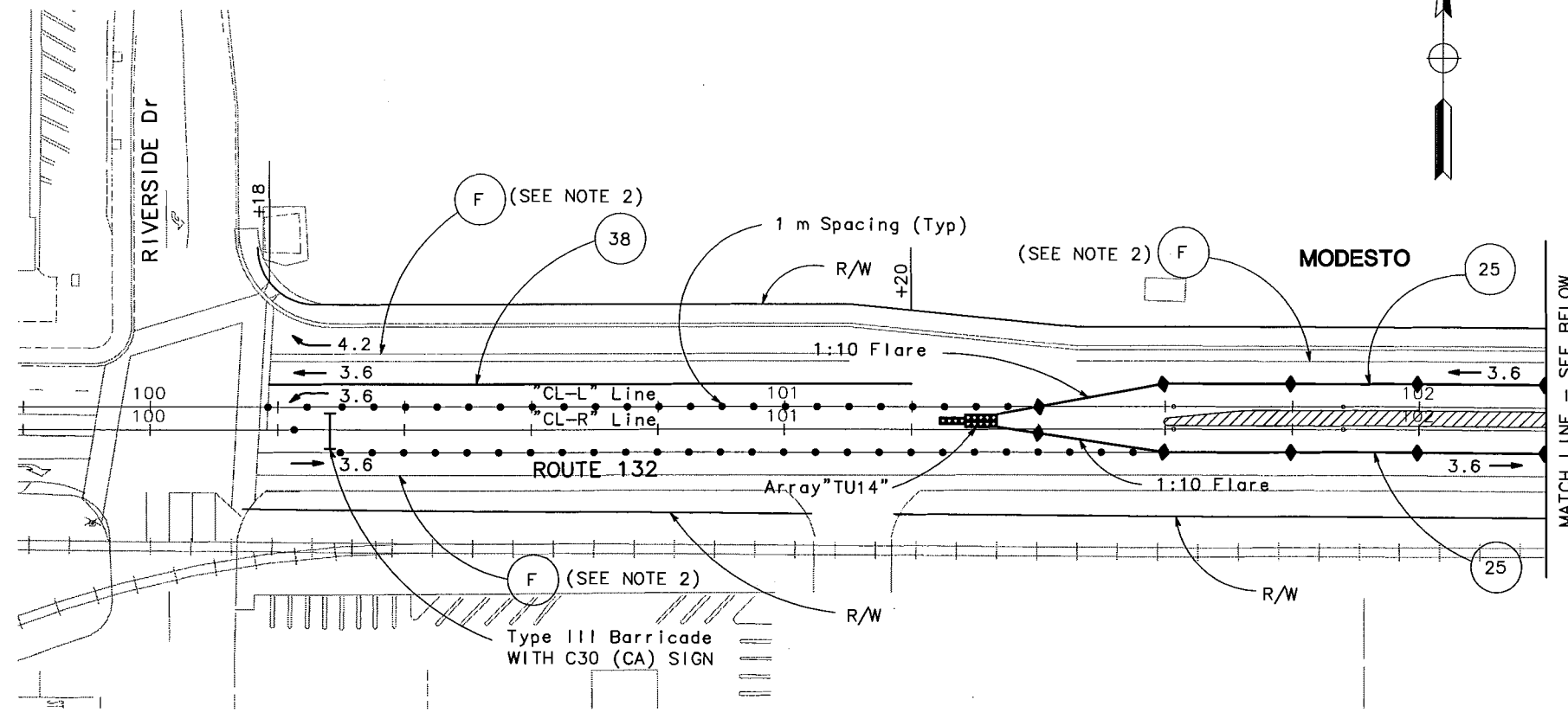
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900 H STREET, SUITE D  
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1038 LEIGH AVENUE, SUITE 100  
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Christina Hibbard	CHRISTINA HIBBARD		5/06			5/06			

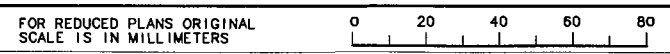


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JULY 7, 2006

TRAFFIC HANDLING PLAN  
STAGE-1 (PHASE D)  
SCALE 1:500  
TH-6



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CHRSTINA HIBBARD

DATE REVISION BY  
5/06 BG 5/06 DATE REVISION

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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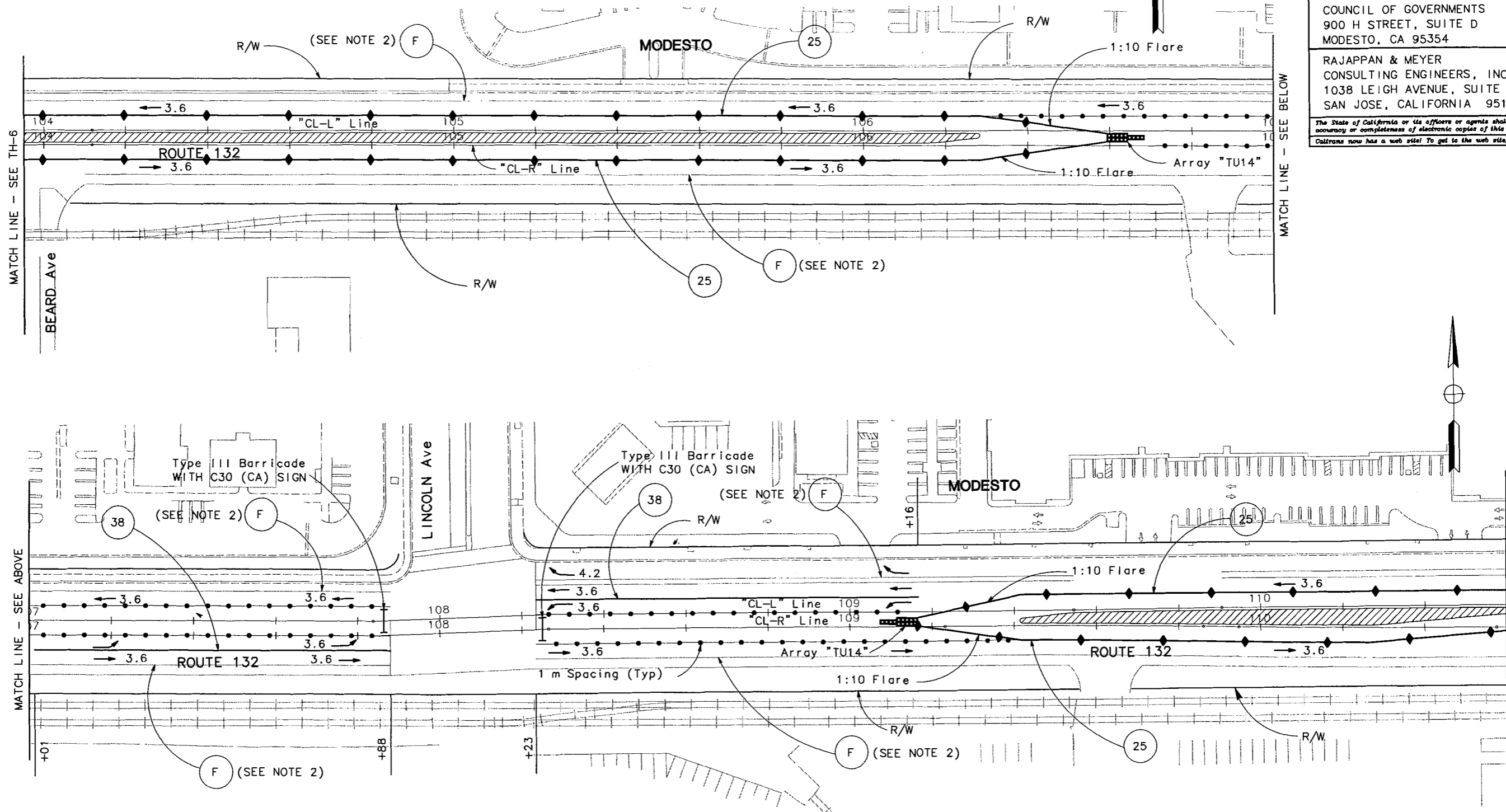
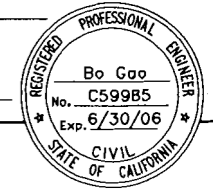
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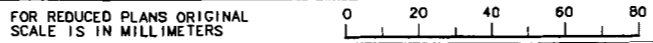


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TRAFFIC HANDLING PLAN  
STAGE-1 (PHASE E )  
SCALE 1:500  
TH-7



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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	104	



REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06  
CIVIL ENGINEER  
STATE OF CALIFORNIA

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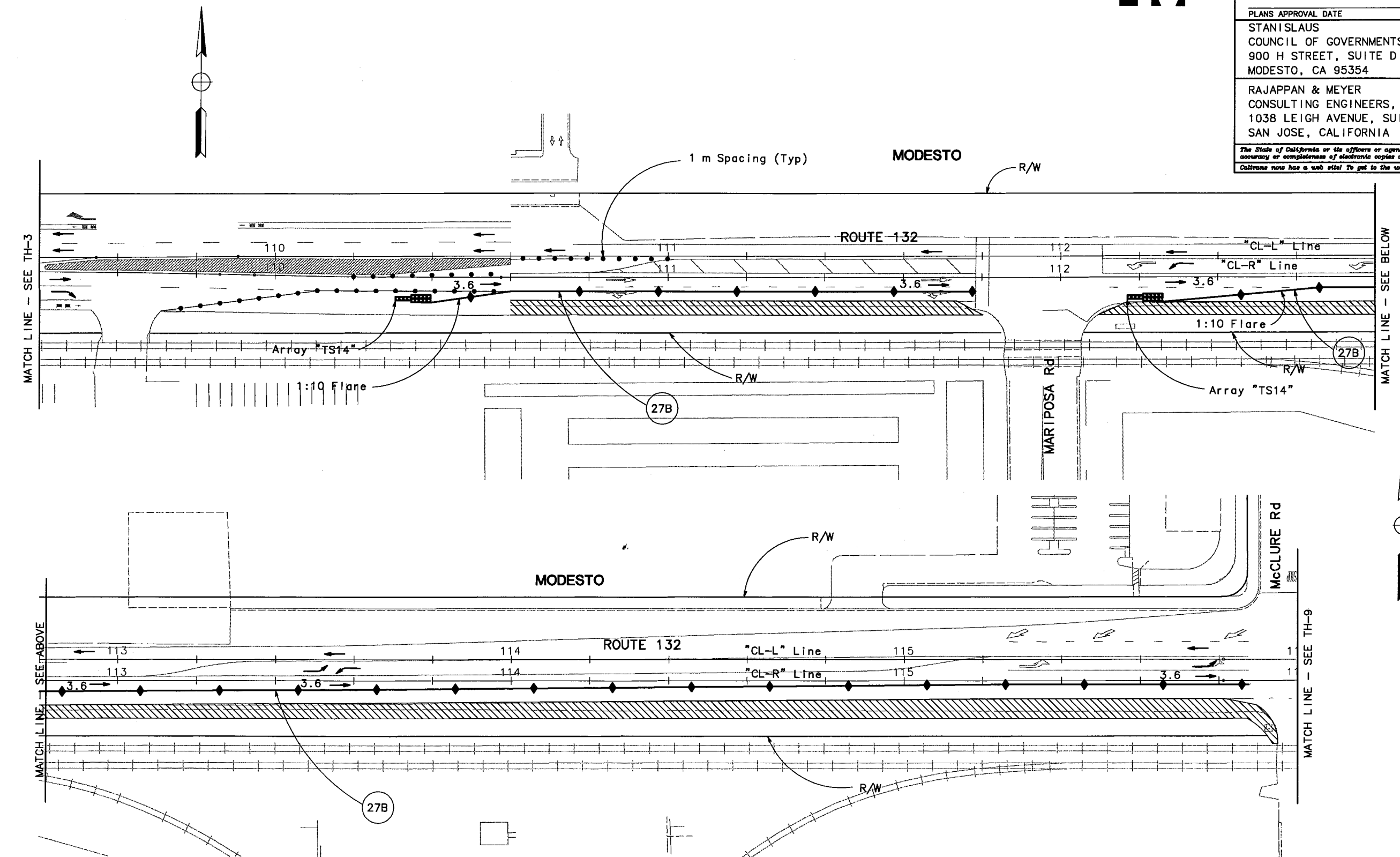
DESIGN OVERSIGHT  
CHRISTINA HIBBARD

CALCULATED/DESIGNED BY  
BG

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BG

REVISOR BY  
DATE

REVISOR DATE

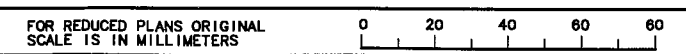


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JULY 7, 2006

TRAFFIC HANDLING PLAN  
STAGE-2 (PHASE B)  
SCALE 1:500  
TH-8



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DGN FILE => \$REQUEST

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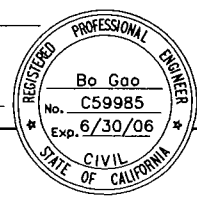
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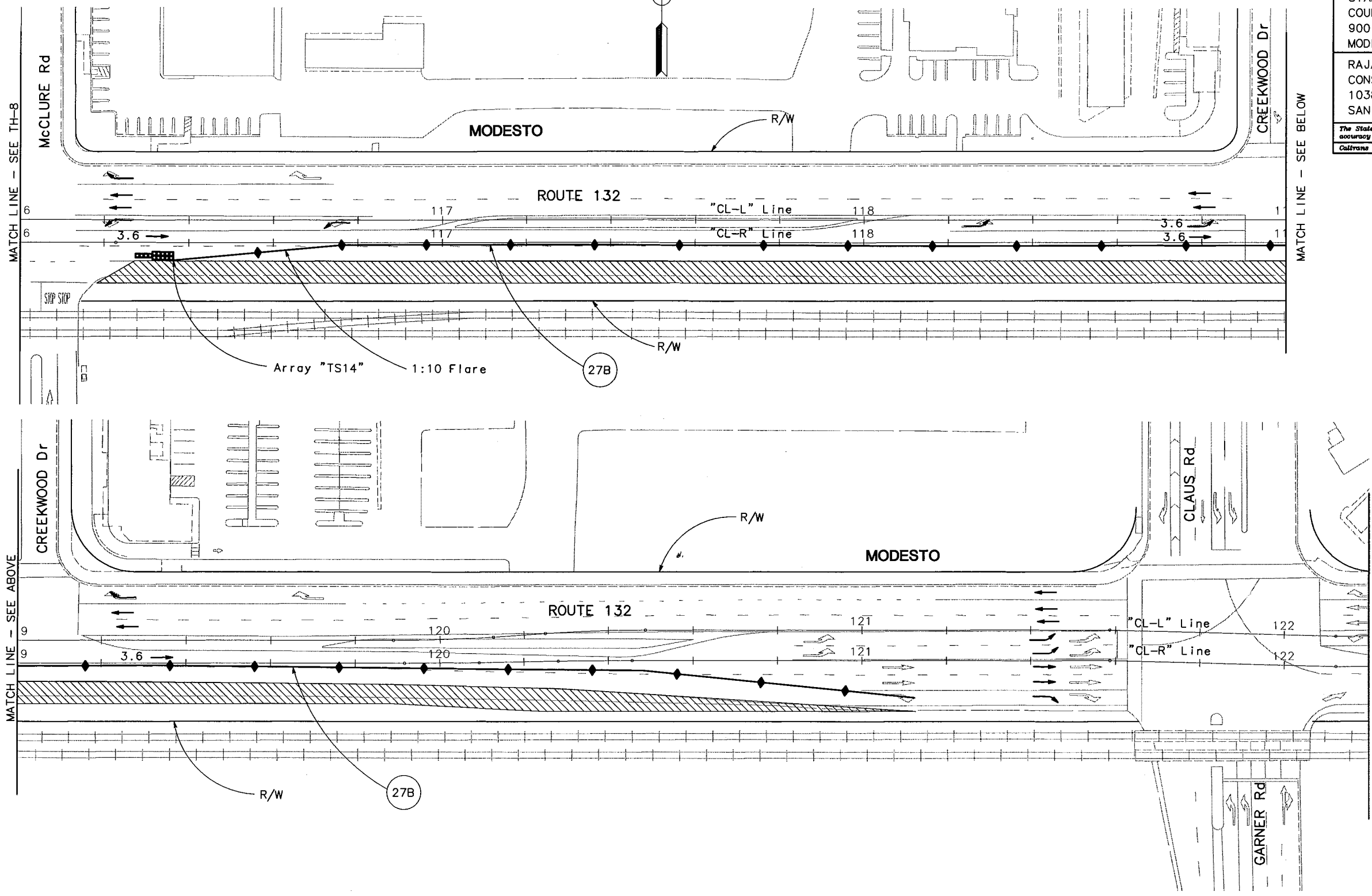


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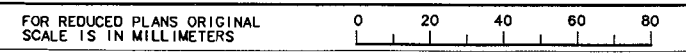


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**JULY 7, 2006**

**TRAFFIC HANDLING PLAN**  
**STAGE-2 (PHASE B)**  
 SCALE 1:500  
**TH-9**



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 DGN FILE => \$REQUEST

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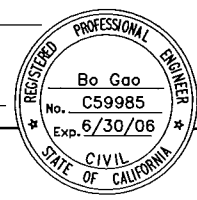
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	106	



REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

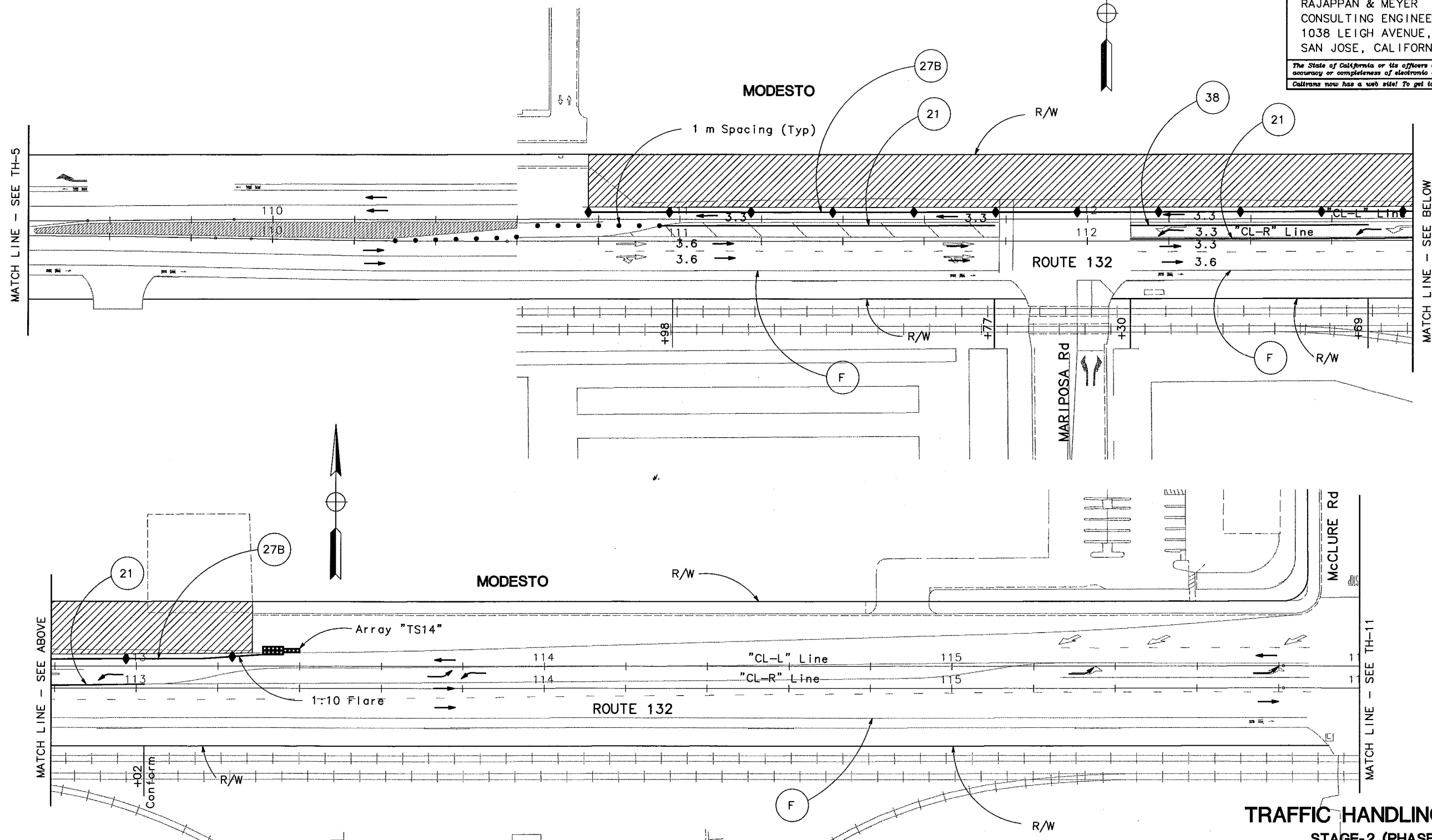
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900 H STREET, SUITE D  
MODESTO, CA 95354



RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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Caltrans	CHRISTINA HIBBARD	BG	5/06	BG	5/06	
		CHECKED BY		DATE	REVISOR	BY



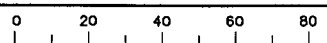
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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET TH-1.

**FINAL SUBMITTAL**  
**JULY 7, 2006**

**TRAFFIC HANDLING PLAN**  
**STAGE-2 (PHASE C)**  
SCALE 1:500  
**TH-10**

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EA 3A1101

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9-3-04

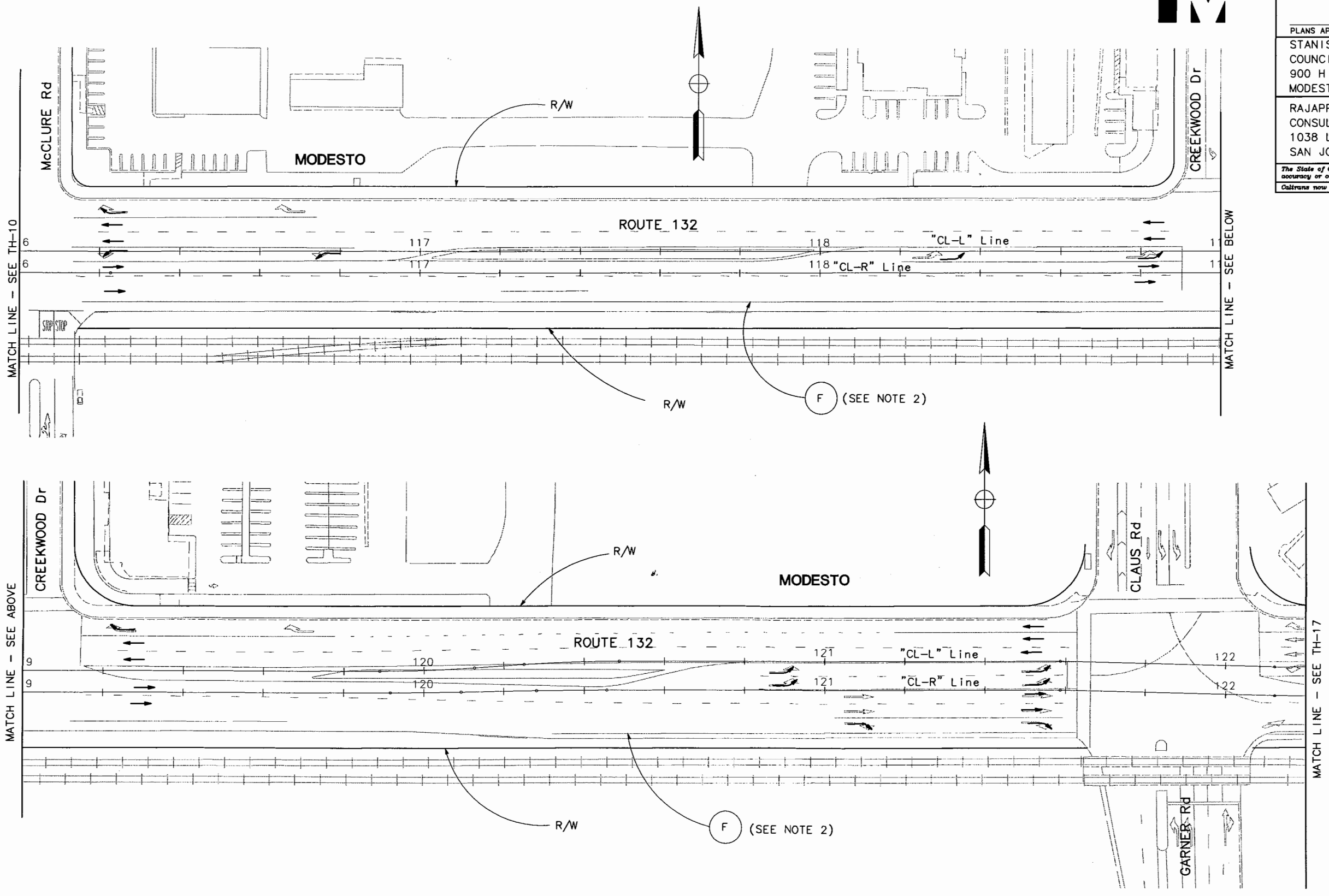


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**Caltrans**  
 DESIGN OVERSIGHT  
 CHRISTINA HIBBARD  
 CALCULATED/DESIGNED BY  
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 DATE 5/06  
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	107	

REGISTERED CIVIL ENGINEER  
 Bo Gao  
 No. C59985  
 Exp. 6/30/06  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA  
 PLANS APPROVAL DATE  
 STANISLAUS COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354  
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**FINAL SUBMITTAL**  
**JULY 7, 2006**

**TRAFFIC HANDLING PLAN**  
**STAGE-2 (PHASE C)**  
 SCALE 1:500  
**TH-11**

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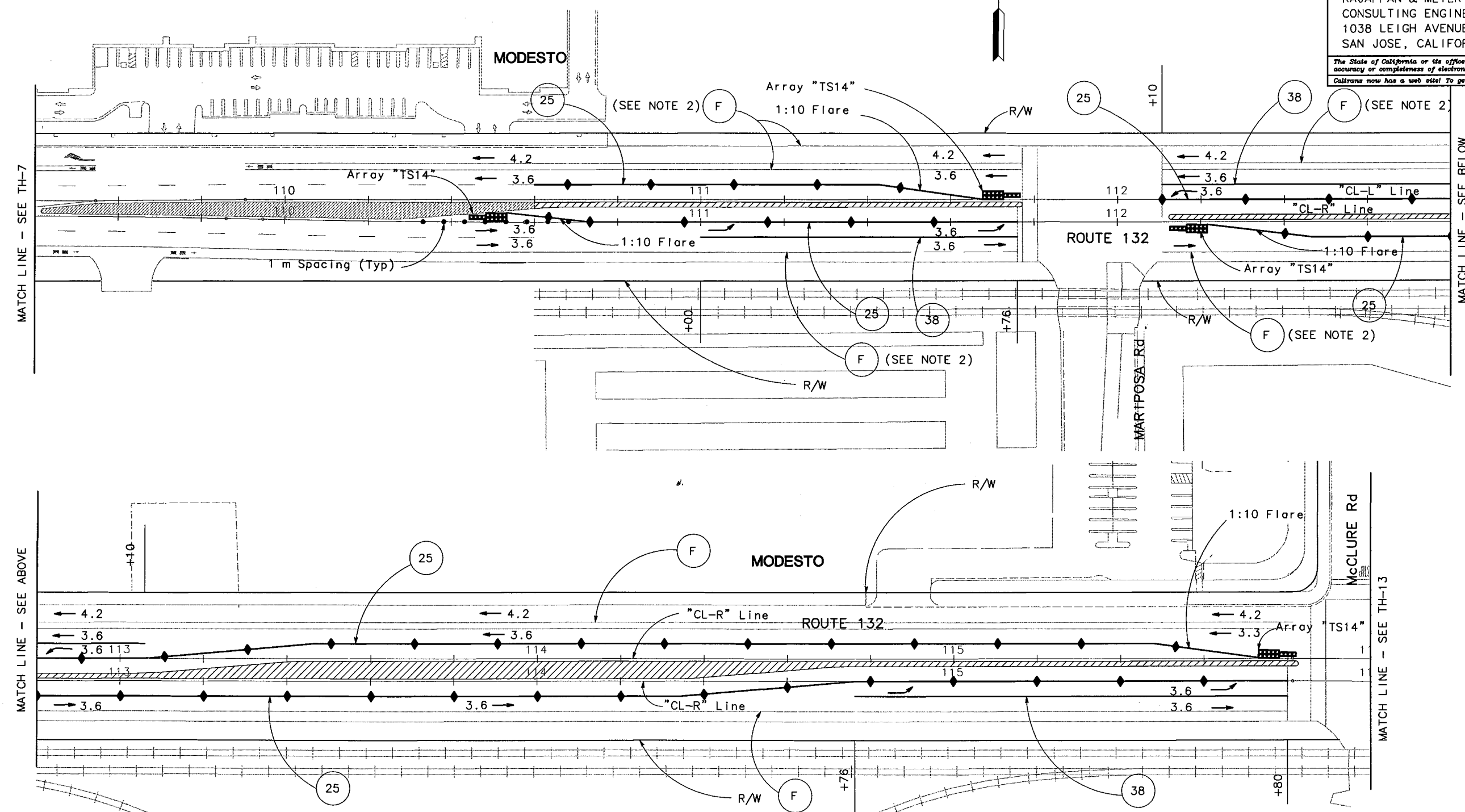
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	108	

REGISTERED CIVIL ENGINEER	
PLANS APPROVAL DATE	
STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354	
RAJAPPAN & MEYER CONSULTING ENGINEERS, INC. 1038 LEIGH AVENUE, SUITE 100 SAN JOSE, CALIFORNIA 95126	

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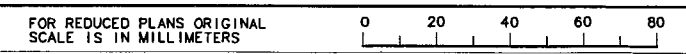
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN OVERSIGHT	CALCULATED/DESIGNED BY	REVISOR
Caltrans	CHRISTINA HIBBARD	5/06	5/06
		CHECKED BY	DATE REVISOR
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FINAL SUBMITTAL  
JULY 7, 2006

TRAFFIC HANDLING PLAN  
STAGE-2 (PHASE D)  
SCALE 1:500  
TH-12



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DATE PLOTTED => \$DATE  
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9-3-04

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	109	



REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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900 H STREET, SUITE D  
MODESTO, CA 95354



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

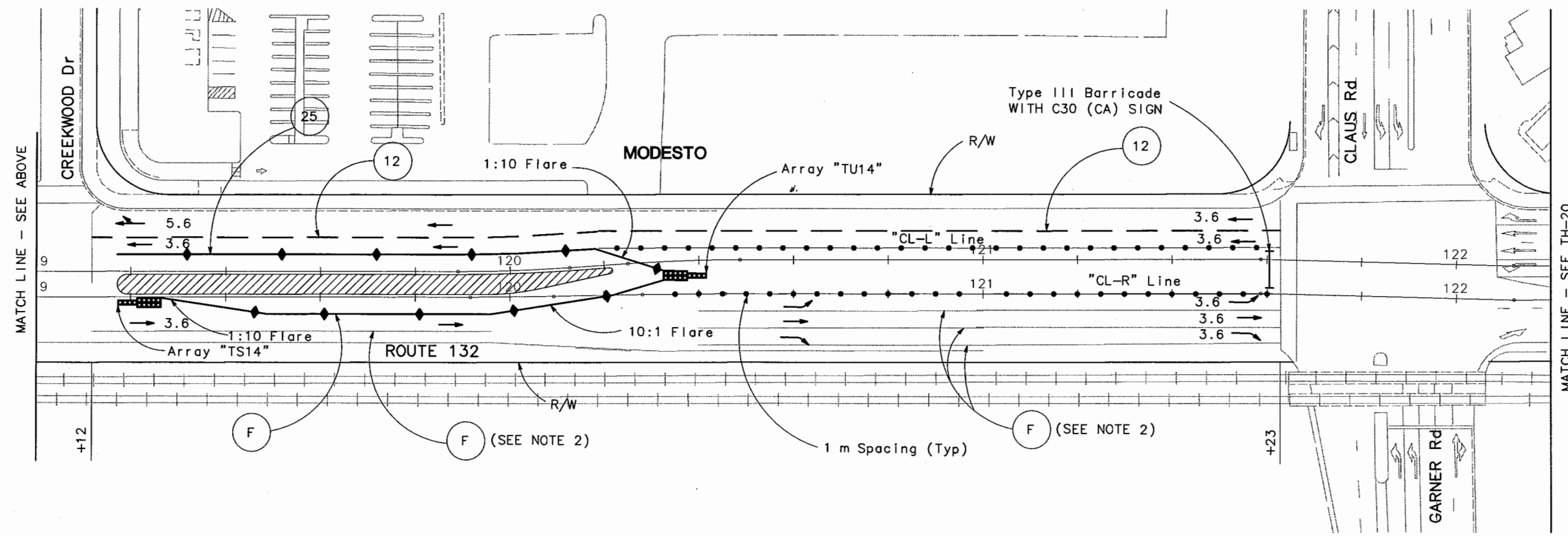
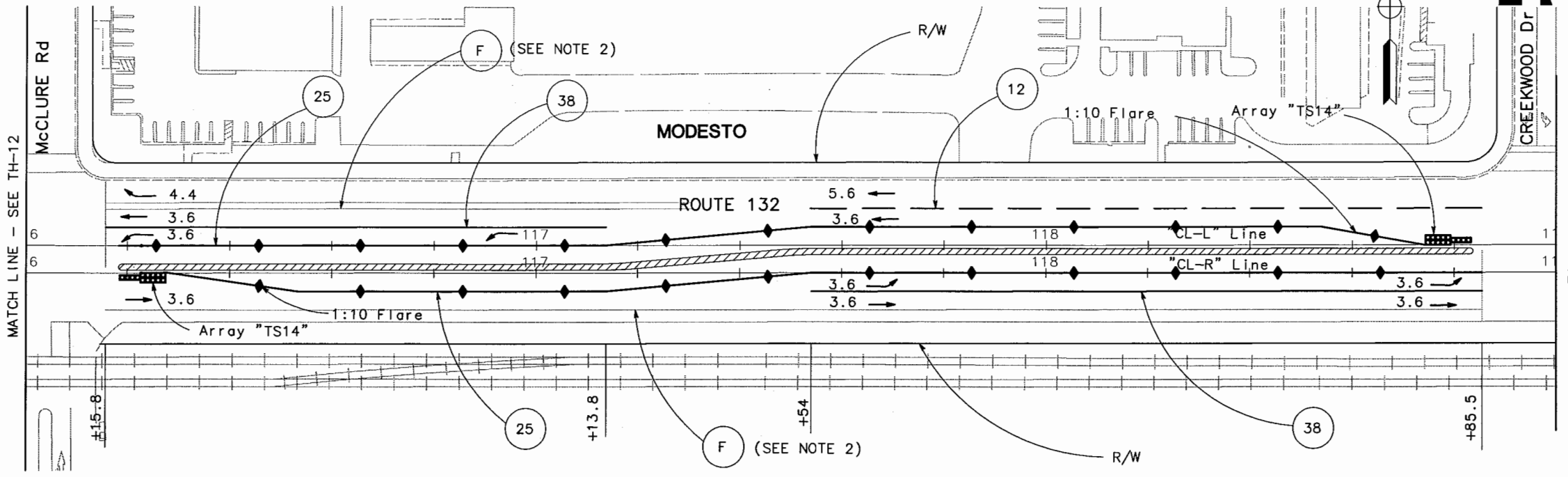
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DATE REVISED: 5/06

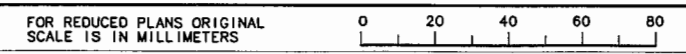


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FINAL SUBMITTAL  
JULY 7, 2006

TRAFFIC HANDLING PLAN  
STAGE-2 (PHASE E)  
SCALE 1:500  
TH-13



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Bo Gao  
No. C59985  
Exp. 6/30/06

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DATE	REVISOR	BY
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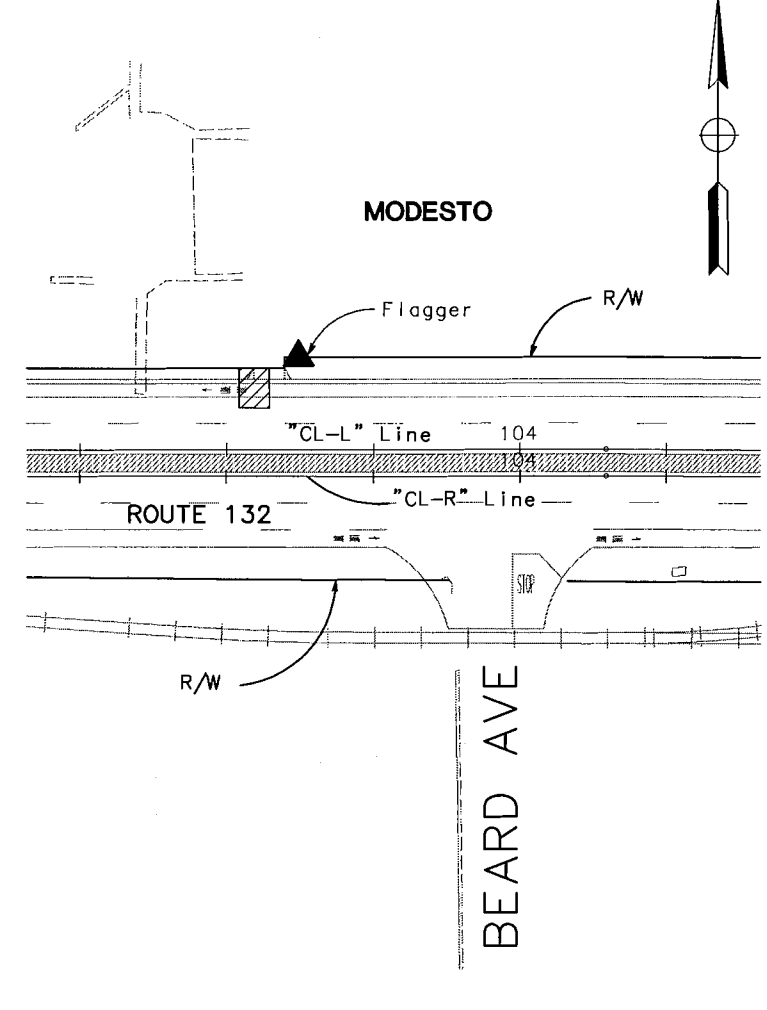
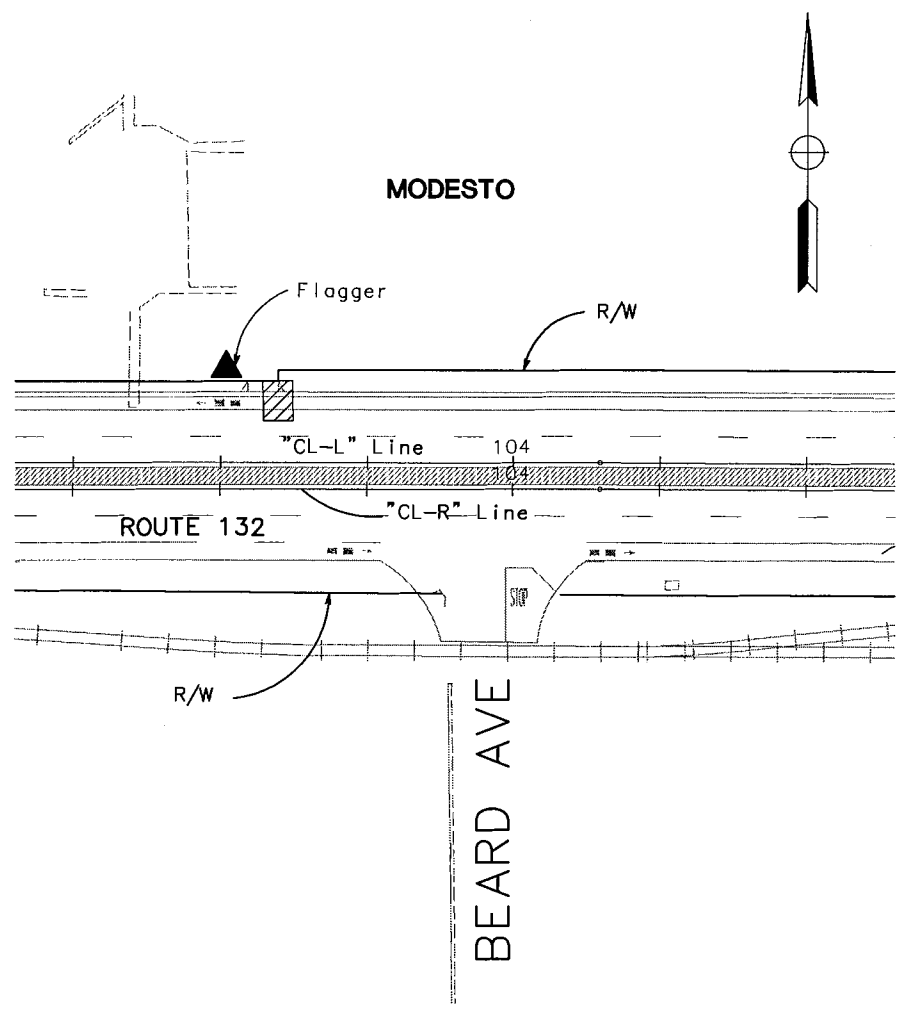
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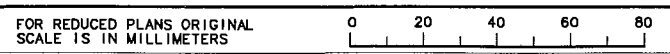


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**JULY 7, 2006**

**TRAFFIC HANDLING PLAN**  
**DRIVEWAY CONSTRUCTION DETAIL**  
SCALE 1:500  
**TH-14**



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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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 Exp. 6/30/06  
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**TEMPORARY PAVEMENT DELINEATION**

STAGE	STATION	TEMPORARY TRAFFIC STRIPE (m)							TEMPORARY PAVEMENT MARKER (EA)
		DETAIL (PAINT)							
		12	21	25	27B	28	31	38	
1	CL-L 101+94 TO 103+79		197						
	CL-L 104+12 TO 104+71		59						
	CL-L 104+71 TO 105+22					51			
	CL-R 104+71 TO 105+22					51			
	CL-L 105+22 TO 106+70						147		
	CL-R 105+22 TO 106+70						147		
	CL-L 107+00 TO 107+93						93		
	CL-R 107+00 TO 107+37						37		
	CL-R 107+61 TO 107+93							32	4
	CL-L 108+21 TO 109+26							107	
	CL-R 108+21 TO 109+26							107	
	CL-L 100+18 TO 101+20							102	15
	CL-R 107+01 TO 107+88							87	13
	CL-L 108+23 TO 109+16							93	14
	CL-L 100+15 TO 103+70			534	677				36
CL-L 104+20 TO 110+60			808	562				55	
CL-L 103+80 TO 105+20				146					
2	CL-R 110+98 TO 111+77		79						
	CL-R 112+30 TO 112+69							39	7
	CL-R 112+30 TO 113+02		72						
	CL-R 111+00 TO 111+76							76	12
	CL-L 112+10 TO 113+10							100	15
	CL-R 114+76 TO 115+80							104	16
	CL-L 116+16 TO 117+14							98	15
	CL-L 117+54 TO 118+86	132							10
	CL-R 117+54 TO 118+86							132	19
	CL-L 119+12 TO 121+23							211	30
CL-L 110+40 TO 115+80			952	755				65	
CL-L 116+40 TO 121+10			738	477				50	
SUBTOTAL		132	407	3032	2627	102	638	1074	396
TOTAL		8002							396

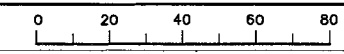
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**JULY 7, 2006**

**TRAFFIC HANDLING QUANTITIES**

NO SCALE  
**THQ-1**

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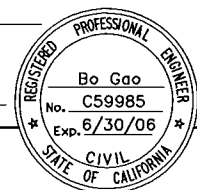
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 Exp. 6/30/06



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**TEMPORARY RAILING (TYPE K)**

STAGE	PHASE	STATION	LOCATION	LENGTH (m)	SUB-TOTAL (m)	
STAGE-1	PHASE B	CL-R 100+30 TO 103+73	Rt	340	645	
		CL-R 104+20 TO 106+70	Rt	225		
		CL-R 19+80 TO 110+60	Rt	80		
	PHASE C	CL-L 100+20 TO 105+00	Lt	480	480	
		CL-R 101+30 TO 104+00	Rt	255		
	PHASE D	CL-L 101+30 TO 104+00	Lt	255	510	
		CL-R 104+00 TO 106+60	Rt	260		
		CL-L 104+00 TO 106+60	Lt	260		
		CL-R 109+10 TO 110+60	Rt	150		
CL-L 109+10 TO 110+60		Lt	150			
STAGE-2	PHASE B	CL-R 110+40 TO 121+20	Rt	970	970	
		CL-L 110+80 TO 113+40	Lt	260	260	
	PHASE C	CL-R 110+45 TO 115+80	Rt	490	980	
		CL-L 110+60 TO 115+80	Lt	490		
	PHASE E	CL-R 116+20 TO 120+40	Rt	380	760	
		CL-L 116+20 TO 120+40	Lt	380		
		TOTAL				5425

**TEMPORARY CRASH CUSHION MODULE**

STAGE	PHASE	STATION	TEMPORARY CRASH CUSHION MODULE (EA)	ARRAY TYPE	TOTAL (EA)
STAGE-1	PHASE B	CL-R 100+30	14	TS14	70
		CL-R 103+70	14	TS14	
		CL-R 104+20	14	TS14	
		CL-R 107+10	14	TS14	
		CL-R 109+80	14	TS14	
	PHASE C	CL-L 103+50	14	TS14	28
		CL-L 105+20	14	TS14	
		CL-R 101+30	14	TU14	
	PHASE D	CL-R 106+60	14	TU14	14
		CL-R 109+10	14	TU14	
STAGE-2	PHASE B	CL-R 110+40	14	TS14	42
		CL-R 112+20	14	TS14	
		CL-R 116+40	14	TS14	
	PHASE C	CL-L 113+40	14	TS14	14
		CL-R 110+50	14	TS14	
		CL-R 111+70	14	TS14	
	PHASE D	CL-R 112+20	14	TS14	56
		CL-R 115+80	14	TS14	
		CL-R 116+20	14	TS14	
		CL-L 118+80	14	TS14	
PHASE E	CL-R 119+20	14	TS14	56	
	CL-R 120+30	14	TU14		
	TOTAL				308

**TRAFFIC CONTROL DEVICES**

STAGE	PHASE	STATION	CHANNELIZER (SURFACE MOUNTED) (EA)	TYPE III BARRICADE W/ C30 (CA) SIGN (EA)
STAGE-1	PHASE D	CL-R 100+20 TO 101+60	255	1
	PHASE E	CL-L 106+40 TO 109+20	450	2
CL-R 106+60 TO 109+40				
STAGE-2	PHASE B	CL-R 109+70 TO 111+00	162	
	PHASE C	CL-R 110+30 TO 111+00	81	
	PHASE D	CL-R 110+30 TO 110+60	51	
	PHASE E	CL-L 120+20 TO 121+60	285	1
		CL-R 120+20 TO 121+60		
TOTAL			1284	4

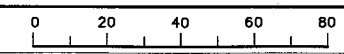
**TRAFFIC HANDLING QUANTITIES**

FINAL SUBMITTAL  
 JULY 7, 2006

NO SCALE  
 THQ-2

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 CHECKED BY  
 DATE REVISED BY  
 5/06 BG 5/06 DATE REVISED

DATE PLOTTED => \$DATE  
 \$TIME  
 LAST REVISION  
 9-3-04



CONSTRUCTION:

CODE	TYPE	PANEL SIZE mm x mm	SIGN MESSAGE	No. OF POST AND SIZE	EACH	REMARKS
(A)	G20-1 C17 (CA)	914 x 450 610 x 610	ROAD WORK NEXT 1 mile and ROAD WORK SPEED LIMIT 30	1-140 mm x 140 mm	4	
(B)	G20-2 C17 (CA)	914 x 450 610 x 610	END ROAD WORK END 30 SPEED LIMIT	1-140 mm x 140 mm	4	
(C)	TYPE 2	2000 x 1000	CONSTRUCTION PROJECT INFORMATION SIGN	2-140 mm x 140mm	4	STANCOG TO PROVIDE LETTERING INFORMATION.
(D)	C40A (CA)	914 x 914	TRAFFIC FINES DOUBLED IN WORK ZONE	1-89 mm x 140 mm	4	
(E)	W20-1 C17 (CA)	762 x 762 610 x 610	ROAD WORK AHEAD and ROAD WORK SPEED LIMIT 30	1-140 mm x 140 mm	10	
(F)	C17 (CA)	610 x 610	ROAD WORK SPEED LIMIT 30	1-89 mm x 140 mm	4	
(G)	PCMS	SEE DETAIL	SEE DETAIL		2	

\* ALL CONSTRUCTION AREA SIGNS ARE NOT SEPARATE PAY ITEM, FOR INFORMATION ONLY.

NOTES:

- SEE TRAFFIC HANDLING PLANS FOR SIGNS NOT SHOWN.
- EXACT LOCATION OF SIGNS TO BE DETERMINED BY THE ENGINEER.
- ALL SIGNS SHALL BE STATIONARY MOUNTED.
- COVER ALL EXISTING SPEED LIMIT SIGN DURING CONSTRUCTION.

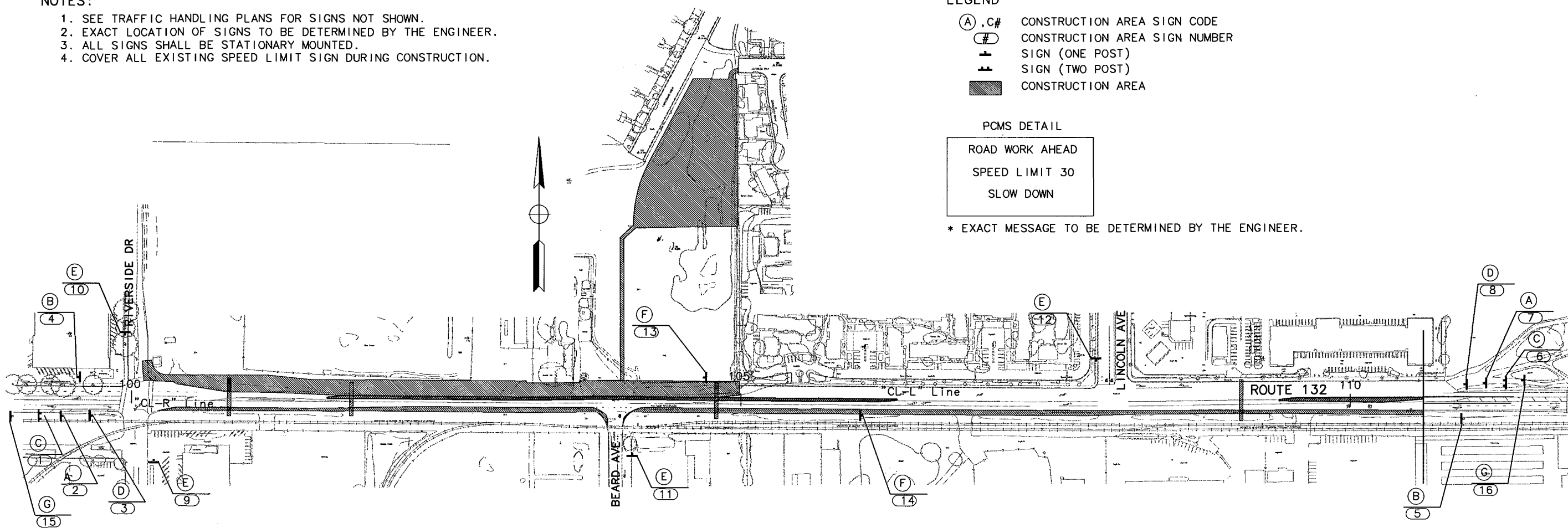
LEGEND

- (A), C# CONSTRUCTION AREA SIGN CODE
- (#) CONSTRUCTION AREA SIGN NUMBER
- SIGN (ONE POST)
- SIGN (TWO POST)
- CONSTRUCTION AREA

PCMS DETAIL

- ROAD WORK AHEAD
- SPEED LIMIT 30
- SLOW DOWN

\* EXACT MESSAGE TO BE DETERMINED BY THE ENGINEER.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	113	

REGISTERED CIVIL ENGINEER

Bo Goo  
No. C59985  
Exp. 6/30/06  
PROFESSIONAL ENGINEER  
CIVIL  
STATE OF CALIFORNIA

PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
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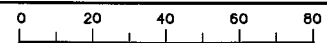
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 CALCULATED/DESIGNED BY  
 CHECKED BY  
 REVISIONS  
 DATE 5/06  
 BY BG  
 DATE 5/06  
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JULY 7, 2006

CONSTRUCTION AREA SIGN  
NO SCALE  
CS-1

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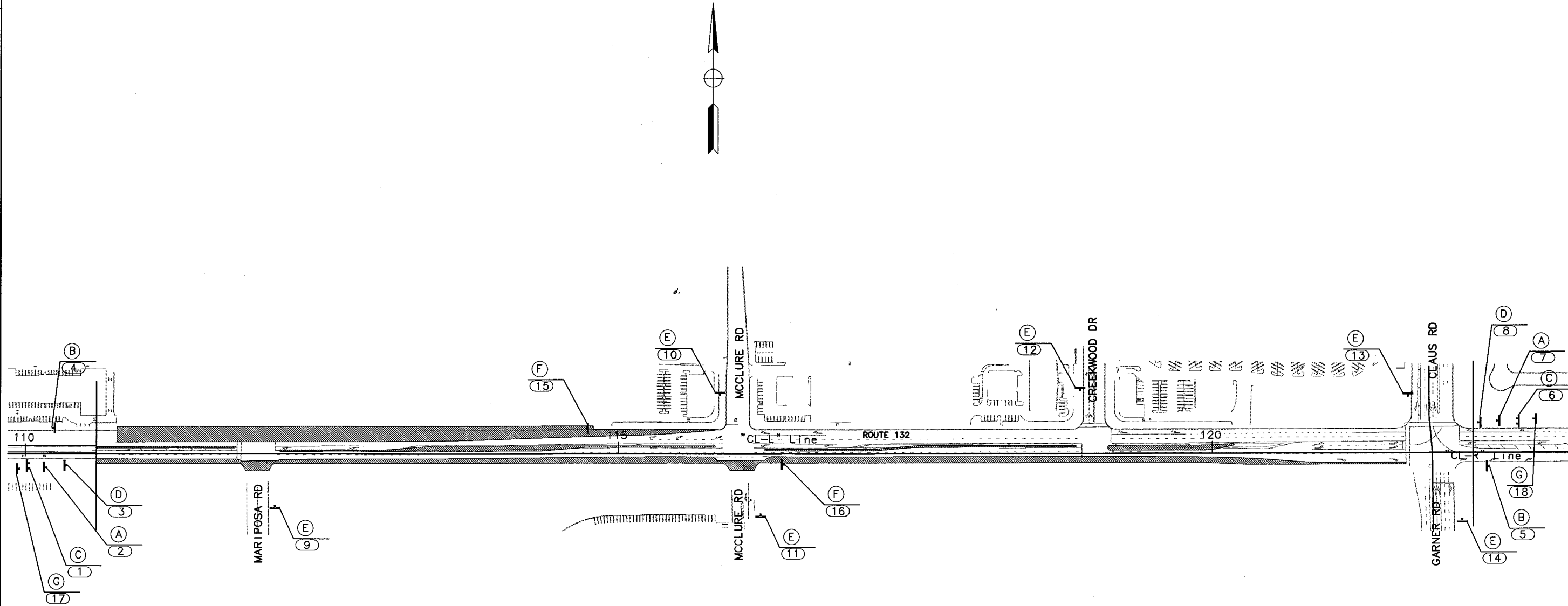
EA 3A1101

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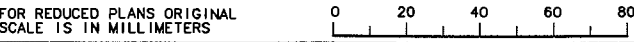
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CONSTRUCTION AREA SIGN  
 NO SCALE  
**CS-2**



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	114	

REGISTERED CIVIL ENGINEER  
 Bo Gao  
 No. C59985  
 Exp. 6/30/06  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	115	



REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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**NOTES:**

- See delineator reflectorization table on standard plan sheet A73C for reflector color for delineator type E, F, and G.
- Remove existing delineators where new delineators are shown on the plans.

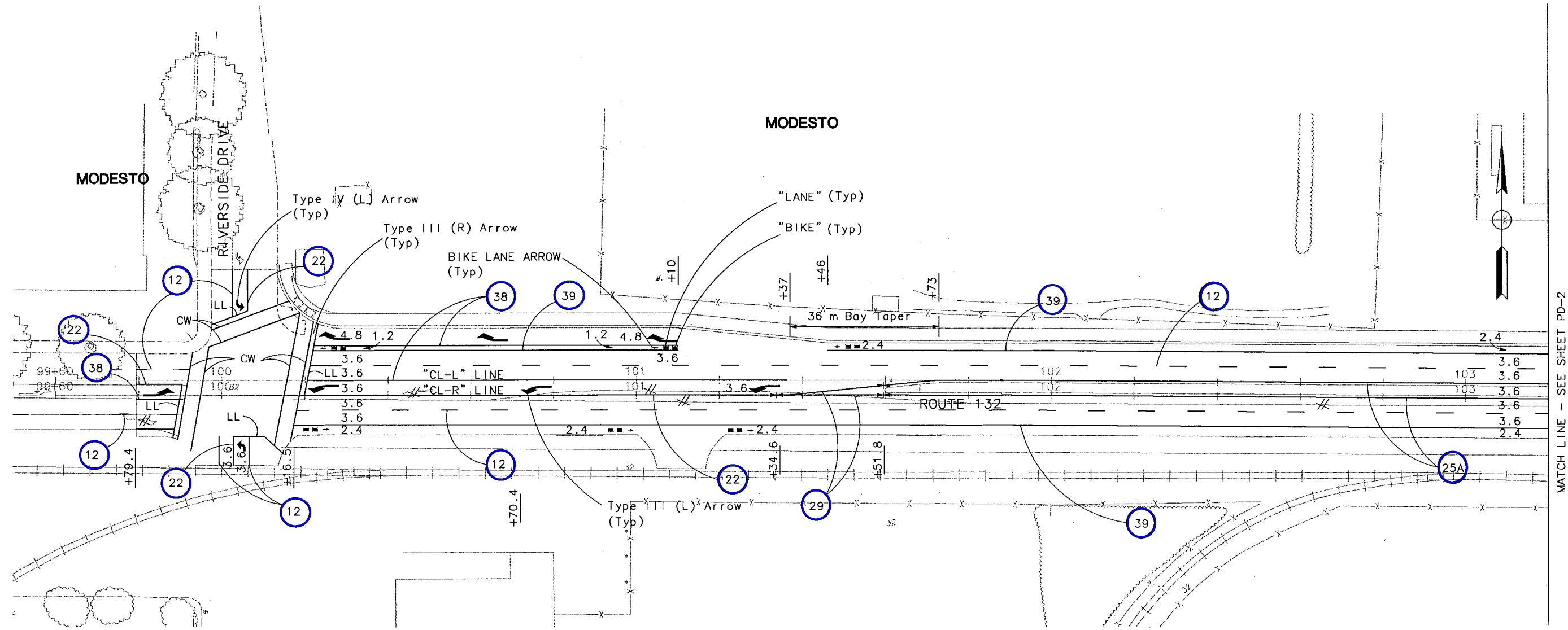
**LEGEND & ABBREVIATIONS:**

- (No.) Pavement delineation detail
- +— Limit of pavement delineation details
- LL 300 mm White limit line
- CW 300 mm White crosswalk
- ⌘ Remove existing pavement delineations/markings

DATE	REVISOR	BY
5/06	BG	DATE
5/06	BG	DATE

DESIGN OVERSIGHT  
CHRISTINA HIBBARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
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**FINAL SUBMITTAL** **PAVEMENT DELINEATION PLAN**  
JULY 7, 2006 SCALE 1:500  
PD-1

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

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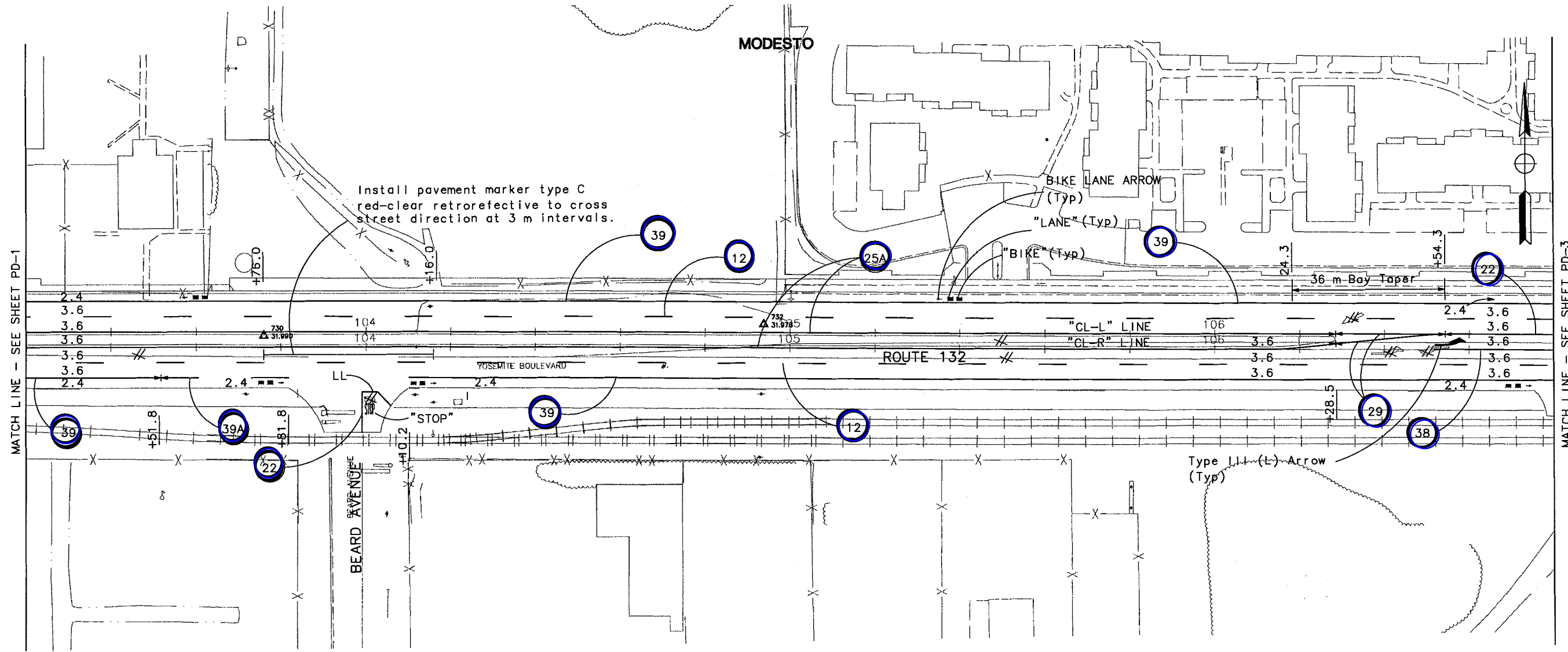
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	116	

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 Bo Goo  
 No. C59985  
 Exp. 6/30/06  
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 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
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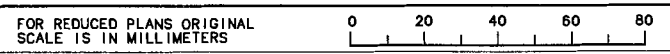
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FINAL SUBMITTAL  
 JULY 7, 2006

PAVEMENT DELINEATION PLAN  
 SCALE 1:500  
 PD-2

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	117	

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PLANS APPROVAL DATE

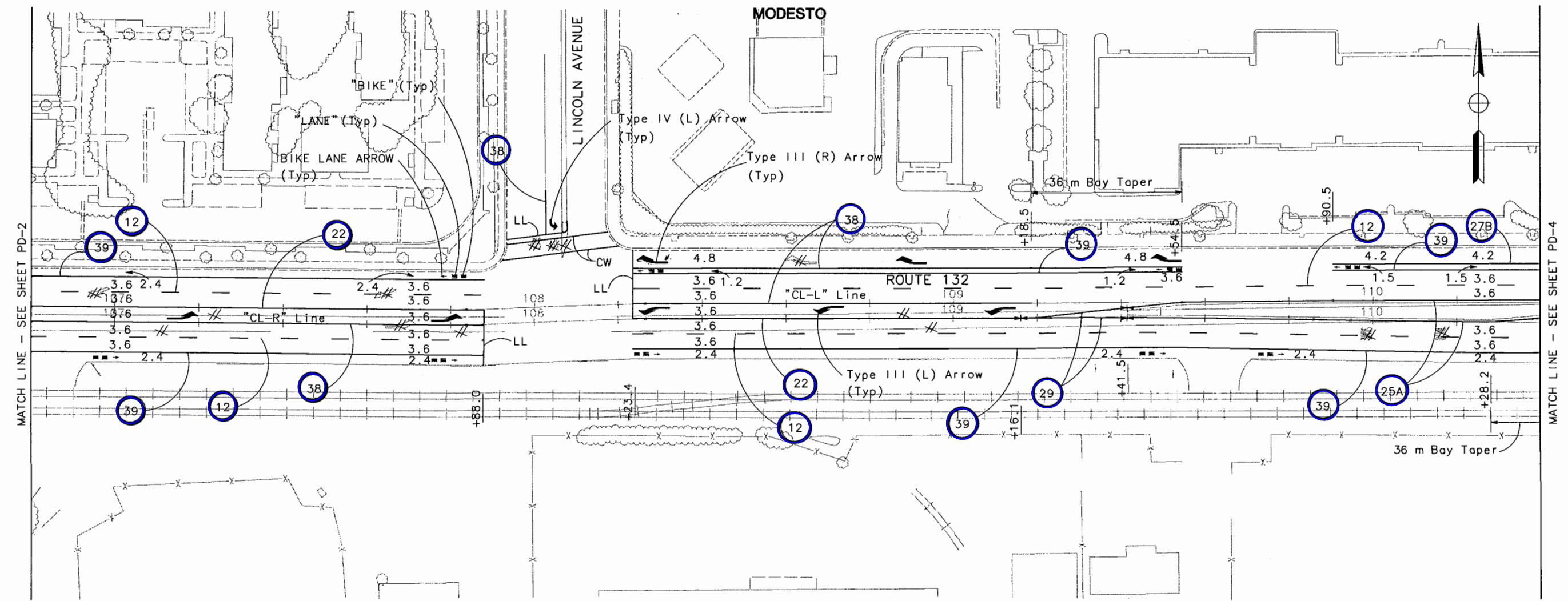
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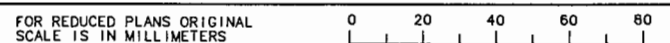


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PAVEMENT DELINEATION PLAN  
SCALE 1:500  
PD-3



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10	STA	132	28.4/30.7	118	

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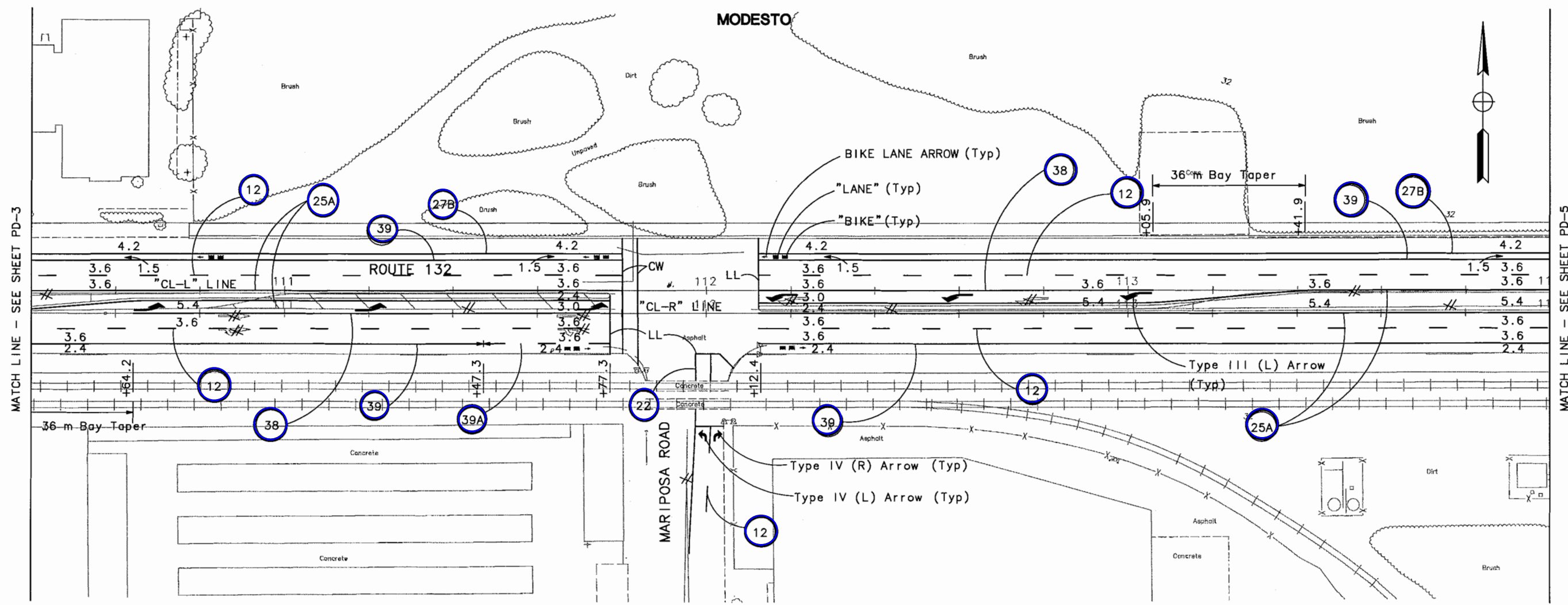
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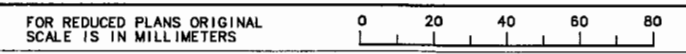


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**PD-4**



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10	STA	132	28.4/30.7	119	

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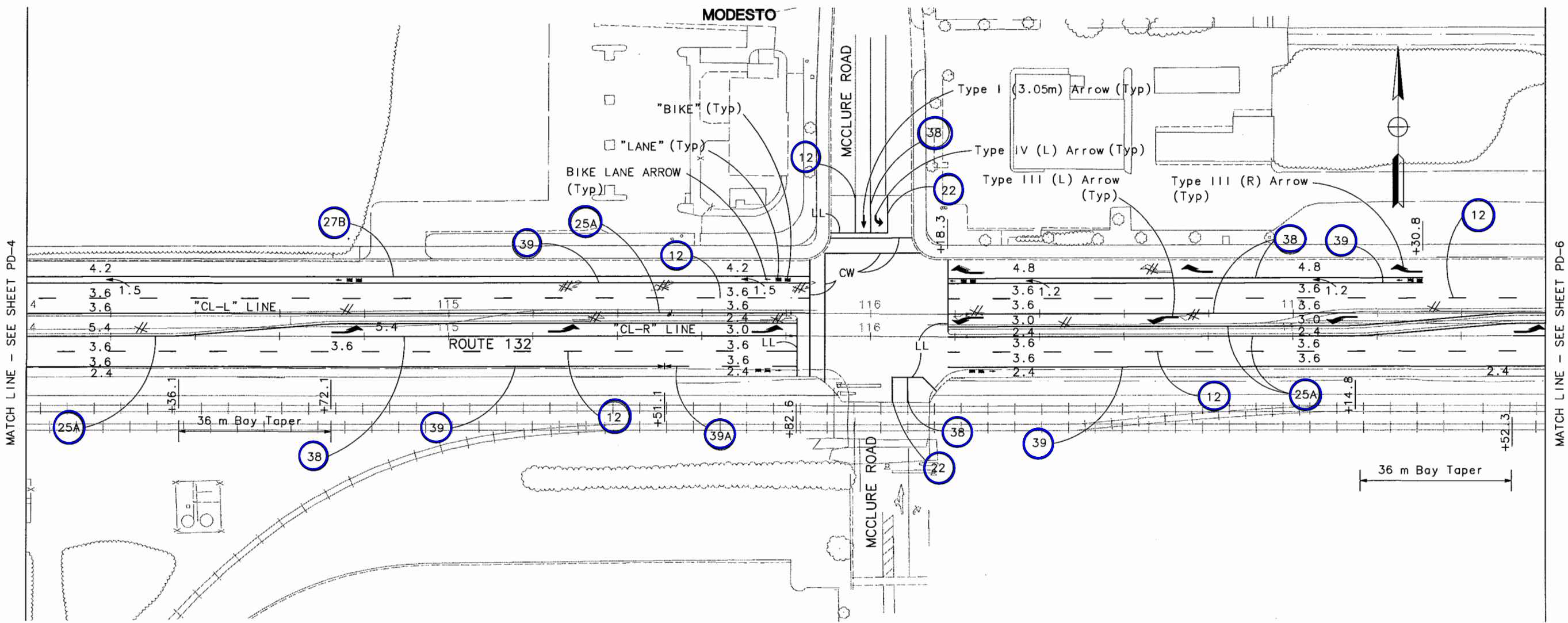
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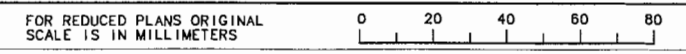


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PAVEMENT DELINEATION PLAN  
SCALE 1:500  
PD-5



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10	STA	132	28.4/30.7	120	

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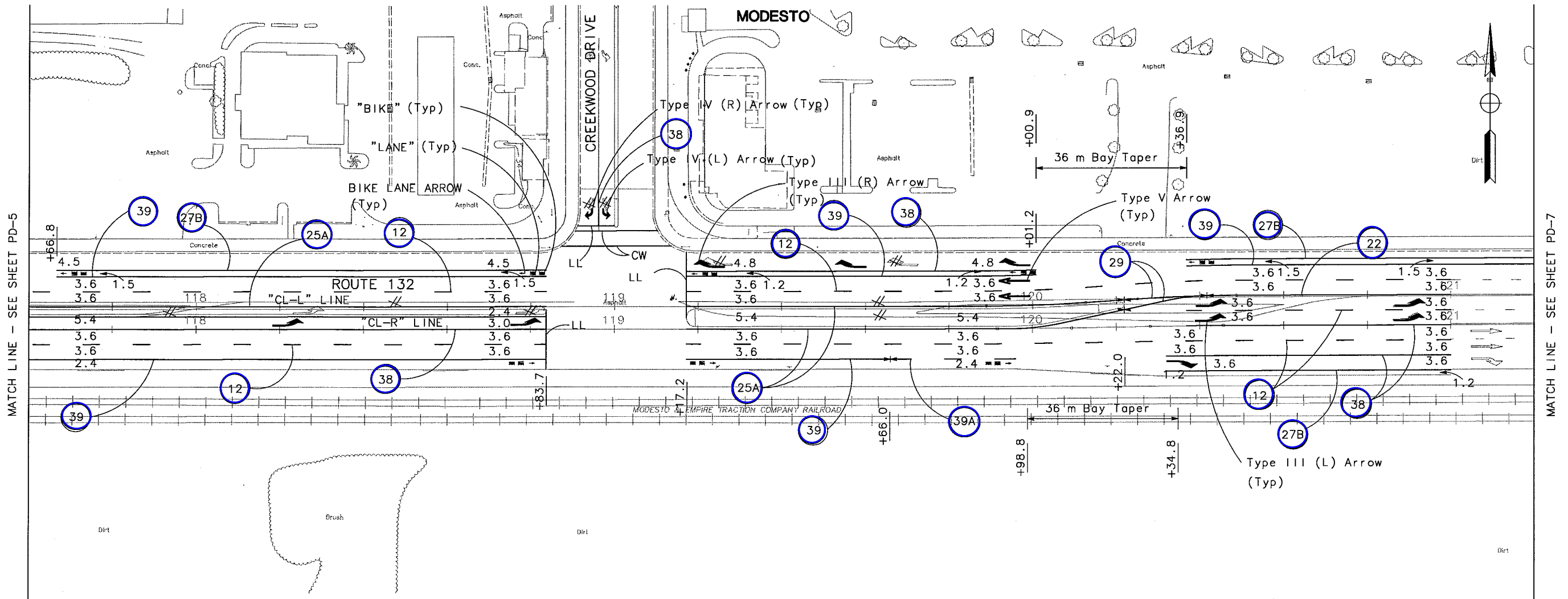
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PD-6



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10	STA	132	28.4/30.7	121	

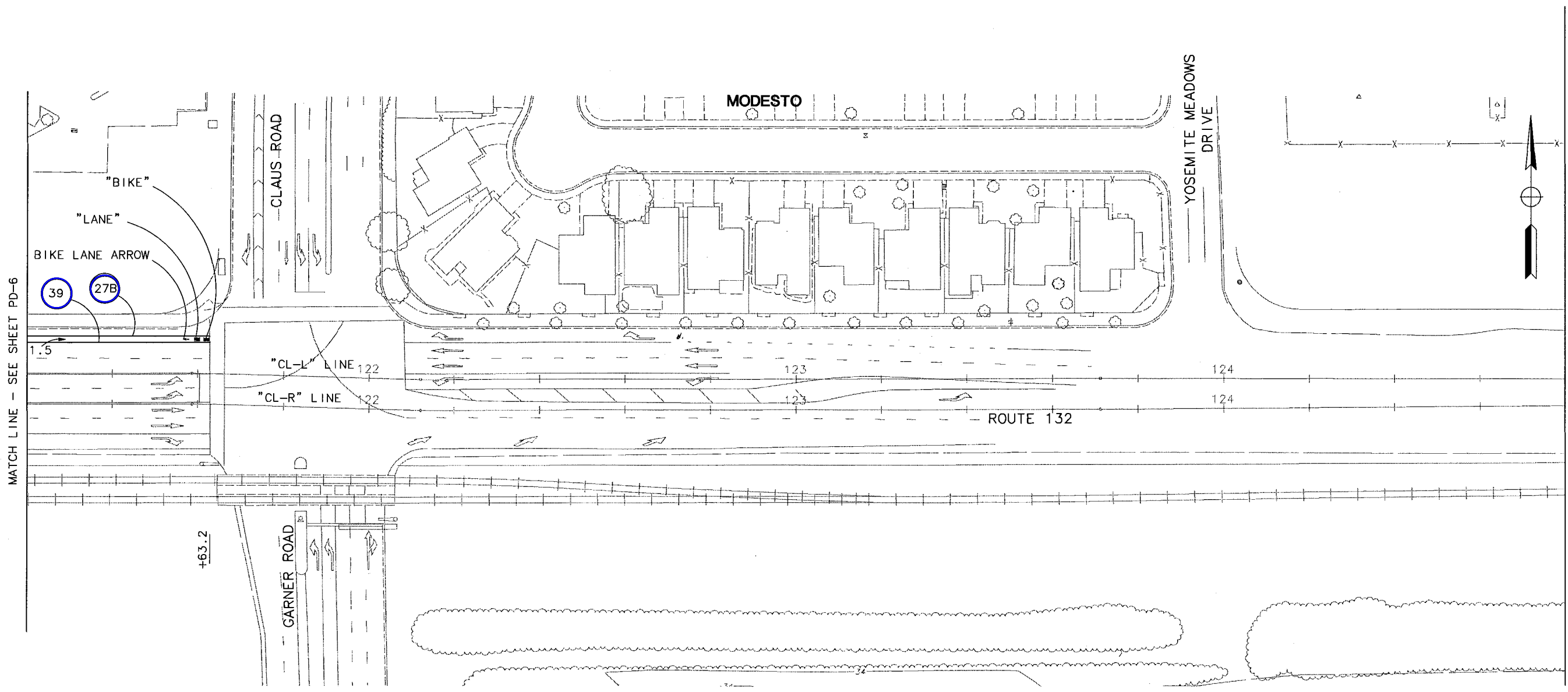
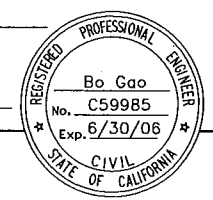
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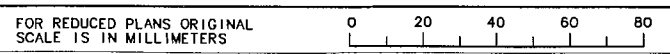
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**JULY 7, 2006**  
**PAVEMENT DELINEATION PLAN**  
 SCALE 1:500  
**PD-7**



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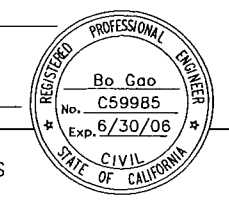


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	127	

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### TRAFFIC STRIPING

### PAVEMENT MARKER

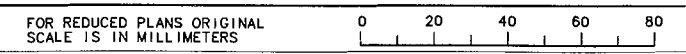
PLAN SHEET No.	LOCATION-DESCRIPTION	DETAIL NO. →	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)								RETROREFLECTIVE					
			12	39A	29	22	25A	27B	39	38	TYPE D		TYPE G		TYPE H	TYPE C
			100 mm (BROKEN) 0.3-3.66	150 mm (BROKEN) 0.3-3.66	100 mm SOLID YELLOW		100 mm SOLID WHITE	150 mm SOLID WHITE	200 mm SOLID WHITE	22	29	12	38	25A		
			m								EA					
PD-1	"CL-R" WB 99+84.000 to 103+20.000	336	327		27	127	186		269	207	35	8	22	29	26	
	"CL-R" EB 99+84.000 to 103+20.000	336	356				186	10	303	11			24	2	26	
PD-2	"CL-R" WB 103+20.000 to 106+80.000	360	360		26	26	334		360		7	8	25		46	
	"CL-R" EB 103+20.000 to 106+80.000	360	360	30			334		302	28			25	4	46	14
PD-3	"CL-R" WB 106+80.000 to 110+40.000	360	324		26	201	124	49	290	236	55	8	22	33	17	
	"CL-R" EB 106+80.000 to 110+40.000	360	324				134	112	325	108			22	15	18	
PD-4	"CL-R" WB 110+40.000 to 114+00.000	360	326				323	326	326	95			22	13	44	
	"CL-R" EB 110+40.000 to 114+00.000	360	353	30		47	324		296	113	13		24	16	44	
PD-5	"CL-R" WB 114+00.000 to 117+60.000	360	333			10	325	184	296	221	3		23	30	44	
	"CL-R" EB 114+00.000 to 117+60.000	360	325	30		7	328		266	117	2		22	16	45	
PD-6	"CL-R" WB 117+60.000 to 121+20.000	360	314		20	62	256	200	294	94	17	6	22	13	35	
	"CL-R" EB 117+60.000 to 121+20.000	360	377	30			252	68	179	264			26	36	35	
PD-7	"CL-R" WB 121+20.000 to 124+80.000	360						43	43							
	"CL-R" EB 121+20.000 to 124+80.000	360														
SUBTOTAL			4079	120	99	480	3106	992	3553	1494	132	30	279	207	426	14
TOTAL			13923								1088					

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JULY 7, 2006

PAVEMENT DELINEATION  
QUANTITIES  
PDQ-1



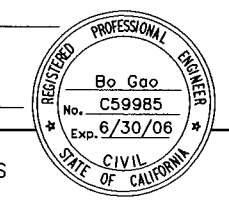


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	123	

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### REMOVE THERMOPLASTIC TRAFFIC STRIPE & PAVEMENT MARKING

LOCATION-DESCRIPTION	TRAFFIC STRIPE (TYPE)		
	TRAFFIC STRIPE (YELLOW)	PAVEMENT MARKING (N)	PAVEMENT MARKER (N)
	m	m <sup>2</sup>	EA
"CL-R" 99+80 to 121+00	12780	142	260
TOTAL	12780	142	260

(N) Not a Separate Pay Item, for Information Only

### THERMOPLASTIC PAVEMENT MARKING

PLAN SHEET No.	LOCATION-DESCRIPTION	TYPE I ARROW	TYPE IV ARROW	TYPE III ARROW	TYPE V ARROW	BIKE LANE ARROW	"STOP"	"BIKE"	"LANE"	LIMIT LINE (300 mm)	CROSS WALK (300 mm)	
		EA									m	
PD-1	"CL-R" 99+84 TO 103+20		2	7		6		6	6	53	146	
PD-2	"CL-R" 103+20 TO 106+80			1		5	1	5	5	11		
PD-3	"CL-R" 106+80 TO 110+40		1	8		9		9	9	40	53	
PD-4	"CL-R" 110+40 TO 114+00		2	8		5		5	5	50	54	
PD-5	"CL-R" 114+00 TO 117+60	1	1	10		6		6	6	52	98	
PD-6	"CL-R" 117+60 TO 121+20		2	8	2	8		8	8	41	46	
PD-7	"CL-R" 121+20 TO 124+80					1		1	1			
	TOTAL (EA OR m)	1	8	42	2	40	1	40	40	247	397	
	EA (m <sup>2</sup> )	1.30	1.39	3.90	3.06	0.65	2.04	0.46	0.56	-	-	
	SUBTOTAL (m <sup>2</sup> )	1.30	11.12	163.8	6.12	26	2.04	18.4	22.4	74.1	119.1	
	GRANDTOTAL (m <sup>2</sup> )	444.38										

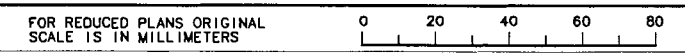
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PAVEMENT DELINEATION  
QUANTITIES  
PDQ-2



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### ROADWAY QUANTITIES

STATION LIMITS	ROADWAY EXCAVATION	ASPHALT CONCRETE (TYPE A)	AC SURFACING (TYPE A)	CI 3 AB
	m <sup>3</sup>	tonne		m <sup>3</sup>
"CL-R" 99+84 TO 103+20	2311.0	1878.7	1267.7	1352.1
"CL-R" 103+20 TO 106+80	1856.9	1565.0	889.3	1096.0
"CL-R" 106+80 TO 110+40	710.8	634.4	1435.7	412.9
"CL-R" 110+40 TO 114+00	2251.5	1819.5	1368.3	1330.5
"CL-R" 114+00 TO 117+60	1007.5	852.8	1408.8	603.1
"CL-R" 117+60 TO 121+20	927.6	828.0	1261.8	546.0
AC DIKE		17.8		
INFILTRATION BASIN	14800.0			391.5
<b>TOTAL</b>	<b>23865.3</b>	<b>7596.1</b>	<b>7631.3</b>	<b>5732.1</b>

### ADJUST FRAME AND COVER

STATION LIMITS	EA
"CL-R" 99+84 TO 103+20	7
"CL-R" 103+20 TO 106+80	6
"CL-R" 106+80 TO 110+40	14
"CL-R" 110+40 TO 114+00	8
"CL-R" 114+00 TO 117+60	12
"CL-R" 117+60 TO 121+20	12
FROM DRAINAGE	12
<b>TOTAL</b>	<b>71</b>

### CHAIN LINK FENCE AND GATE

STATION LIMITS	LOCATION	CHAIN LINK FENCE (TYPR CL-1.8 SLATTED)
		m
"CL-R" 104+96.6	Lt	120.9
<b>TOTAL</b>		<b>120.9</b>

### ACCESS CONTROL WALL AND GATE

STATION LIMITS	LOCATION	ACCESS CONTROL WALL	CHAIN LINK GATE (TYPE CL-1.8)
		m	EA
"CL-R" 104+11.4 TO 104+96.6	Lt	254.7	1
<b>TOTAL</b>		<b>254.7</b>	<b>1</b>

### COLD PLANE AC PAVEMENT (30 mm Max)

STATION LIMITS	Loc	AREA
		m <sup>2</sup>
99+79 TO 99+89	Rt	202
99+89 TO 100+18	Rt	165
99+97 TO 100+14	Lt	160
101+00 TO 101+21	Rt	129
103+87 TO 104+09	Rt	162
106+76 TO 106+94	Rt	93
107+94 TO 108+18	Lt	237
109+53 TO 109+71	Rt	110
111+81 TO 112+09	Rt	146
115+90 TO 116+09	Lt	192
115+93 TO 116+17	Rt	136
118+94 TO 119+10	Lt	177
121+00 TO 121+10	Rt	285
FROM 2.4 m COLD PLANE ALONG EXISTING SIDEWALK		2823
<b>TOTAL</b>		<b>5117</b>

### PCC LINED DITCH

LOCATION	LENGTH (N)	PORTLAND CEMENT CONCRETE
	m	m <sup>3</sup>
CL-R 100+25 TO 100+80 RT	55	5.28
CL-R 100+95 TO 100+80 RT	15	1.44
CL-R 101+25 TO 101+80 RT	55	5.28
CL-R 103+80 TO 101+80 RT	200	19.20
CL-R 104+20 TO 104+80 RT	60	5.76
CL-R 106+70 TO 104+80 RT	190	18.24
CL-R 109+50 TO 109+10 RT	39	3.74
CL-R 107+00 TO 109+10 RT	211	20.26
CL-R 109+80 TO 111+75 RT	195	18.72
CL-R 115+80 TO 112+20 RT	360	34.56
CL-R 116+25 TO 116+80 RT	55	5.28
CL-R 119+40 TO 116+80 RT	260	24.96
CL-R 119+60 TO 121+02 RT	142	13.63
CL-R 121+60 TO 121+02 RT	58	5.57
<b>TOTAL</b>	<b>1895</b>	<b>181.92**</b>

\*\* SEE MINOR CONCRETE MISCELLANEOUS CONSTRUCTION QUANTITY



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	124	

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126



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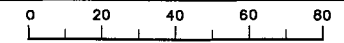
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JULY 7, 2006**

**SUMMARY OF QUANTITIES**

**Q-1**

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	125	

REGISTERED CIVIL ENGINEER  
 PLANS APPROVAL DATE



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 900 H STREET, SUITE D  
 MODESTO, CA 95354

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### REMOVE CONCRETE AND ROAD PAVEMENT

LOCATION	PCC CURB & GUTTER	PCC DRIVEWAY	SIDEWALK	ROAD PAVEMENT
	m <sup>3</sup>			
"CL-R" 100+13.8 TO 100+19.9	1.4		2.2	
"CL-R" 100+95.6 TO 101+33.4	5.6			
"CL-R" 103+57.7 TO 103+71.4		8.9		
"CL-R" 113+29.5 TO 114+78.9	21.6			
"CL-R" 117+03.1 TO 117+98.5	14.0			
"CL-R" 119+72.3 TO 120+60.0	12.8			
"CL-R" 101+68.4 TO 106+19.8				562.5
"CL-R" 109+49.4 TO 110+59.2				176.8
"CL-R" 113+15.3 TO 114+63.6				291.3
"CL-R" 119+19.3 TO 120+15.9				202.3
SUBTOTAL	55.4	8.9		1232.9
TOTAL	66.5			1232.9

### IRRIGATION CROSSOVER

STATION	Loc	LENGTH
		m
"CL-R" 103+91.499	Lt	11.9
"CL-R" 109+96.922	Lt	15.8
"CL-R" 113+90.556	Lt	16.1
"CL-R" 119+61.741	Lt	16.4
TOTAL		60.2

### MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)

STATION	CURB TYPE			SIDEWALK	CURB RAMP	DRIVEWAY
	A2-150	B1-150	B3-150			
m <sup>3</sup>						
"CL-R" 100+13.6 TO 106+28.4	71.1	68.5		140.7	0.8	1.1
"CL-R" 109+41.4 TO 115+81.2	57.8	88.7		120.4		
"CL-R" 116+15.8 TO 118+85.5			14.4			
"CL-R" 119+11.9 TO 120+21.9		16.3				
SUBTOTAL	128.9	172.8	14.4	261.2	0.8	1.1
FROM DRAINAGE						24.38
FROM PCC DITCH						181.92
TOTAL						785.45

### PLACE ASPHALT CONCRETE DIKE

STATION LIMITS	Loc	PLACE AC DIKE	
		TYPE E	AC (TYPE A)
		m	tonne
"CL-R" 100+18.3 To 125+25.6	Rt	273	17.8
TOTAL		273	17.8 *

\* SEE ROADWAY QUANTITIES

### RELOCATE WALL

STATION LIMITS	Loc	LENGTH (m)
"CL-L" 103+34 To 103+62	Lt	30

### EROSION CONTROL

EROSION CONTROL (TYPE D)					MOVE IN/ MOVE OUT
AREA (N)	FIBER	COMPOST	SEED	STABILIZING EMULSION	
ha	kg	kg	kg	kg	EA
0.65	210	610	175	91	6

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

### WATER POLLUTION CONTROL

TEMPORARY SILT FENCE	TEMPORARY COVER	TEMPORARY CONCRETE WASHOUT FACILITY	TEMPORARY CONSTRUCTION ENTRANCE	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY FIBER ROLL	TEMPORARY CHECK DAM	DRAINAGE INLET STENCILING
m	m <sup>2</sup>	EA	EA	EA	M	EA	EA
1800	800	1	1	10	4200	28	43

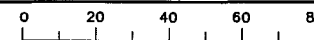
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 JULY 7, 2006

SUMMARY OF QUANTITIES

Q-2

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 DESIGN OVERSIGHT  
 CHRISTINA HIBBARD  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE REVISOR BY  
 5/06  
 DATE REVISOR BY  
 5/06  
 BG



DATE PLOTTED => \$DATE \$TIME



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	126	

REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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5/06		

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CHRISTINA HIBBARD

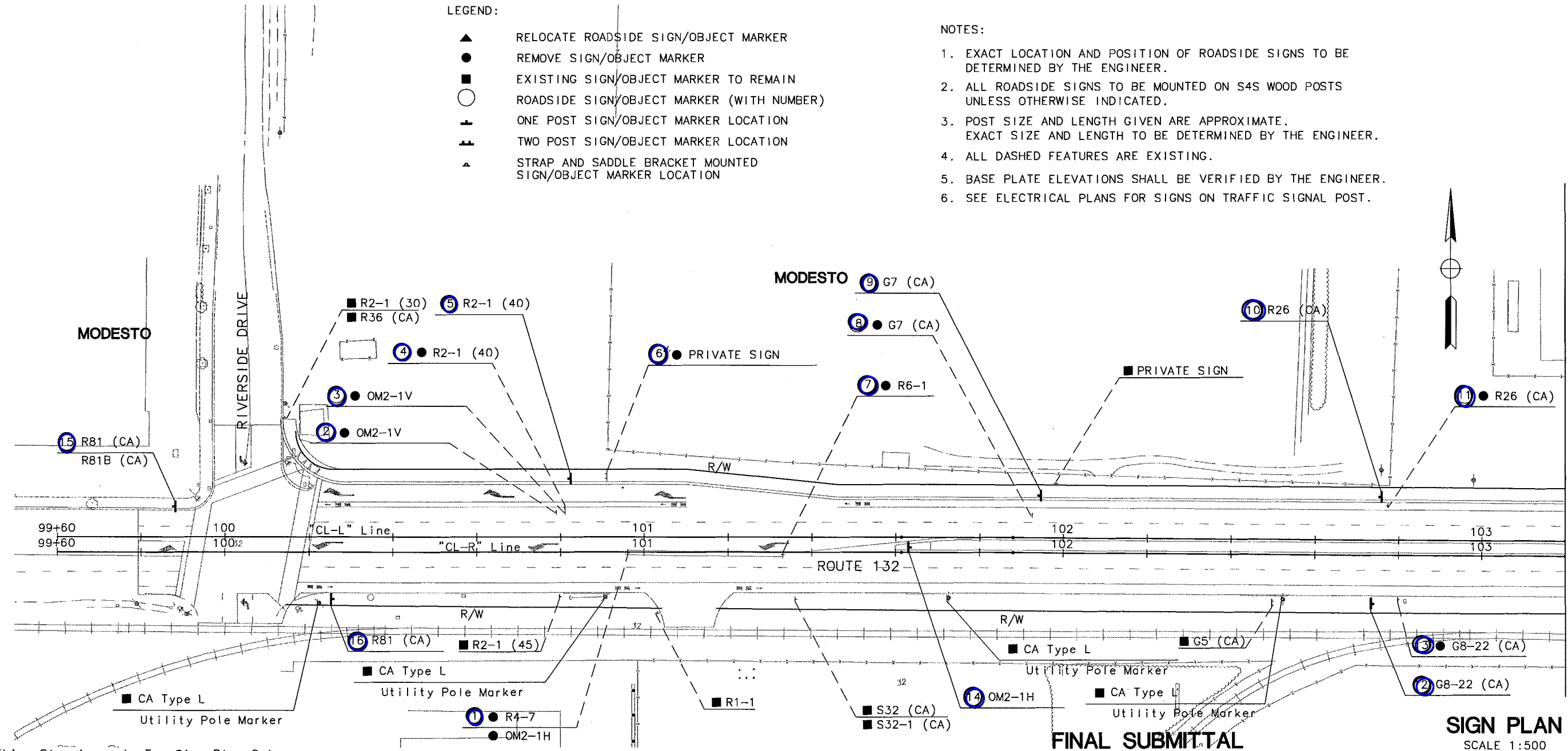
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LEGEND:

- ▲ RELOCATE ROADSIDE SIGN/OBJECT MARKER
- REMOVE SIGN/OBJECT MARKER
- EXISTING SIGN/OBJECT MARKER TO REMAIN
- ROADSIDE SIGN/OBJECT MARKER (WITH NUMBER)
- ⊥ ONE POST SIGN/OBJECT MARKER LOCATION
- ⊥⊥ TWO POST SIGN/OBJECT MARKER LOCATION
- ▲ STRAP AND SADDLE BRACKET MOUNTED SIGN/OBJECT MARKER LOCATION

NOTES:

1. EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
2. ALL ROADSIDE SIGNS TO BE MOUNTED ON S4S WOOD POSTS UNLESS OTHERWISE INDICATED.
3. POST SIZE AND LENGTH GIVEN ARE APPROXIMATE. EXACT SIZE AND LENGTH TO BE DETERMINED BY THE ENGINEER.
4. ALL DASHED FEATURES ARE EXISTING.
5. BASE PLATE ELEVATIONS SHALL BE VERIFIED BY THE ENGINEER.
6. SEE ELECTRICAL PLANS FOR SIGNS ON TRAFFIC SIGNAL POST.

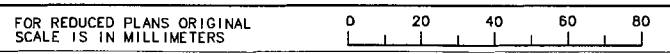


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S-1



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MATCH LINE - SEE SHEET S-2  
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	127	



REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06  
CIVIL ENGINEER  
STATE OF CALIFORNIA

PLANS APPROVAL DATE  
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MODESTO, CA 95354

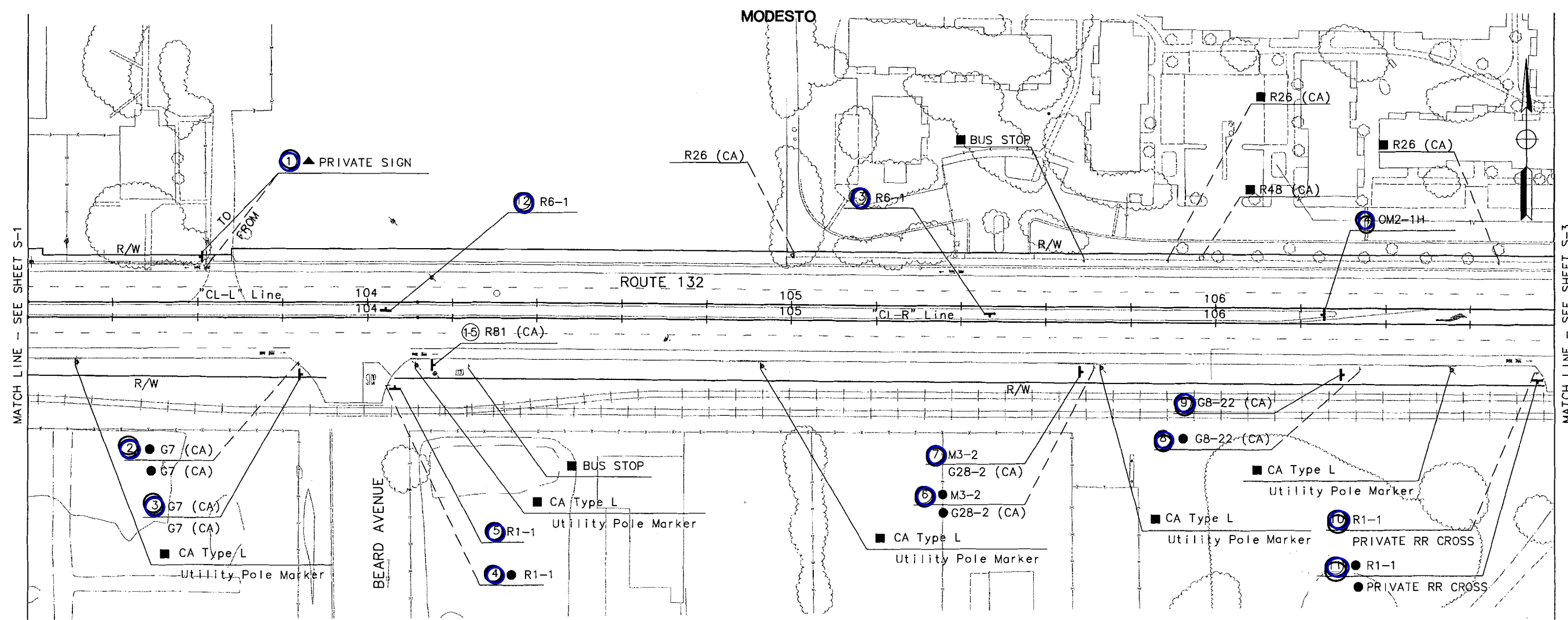
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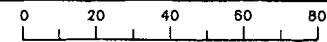
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JULY 7, 2006

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S-2

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	128	

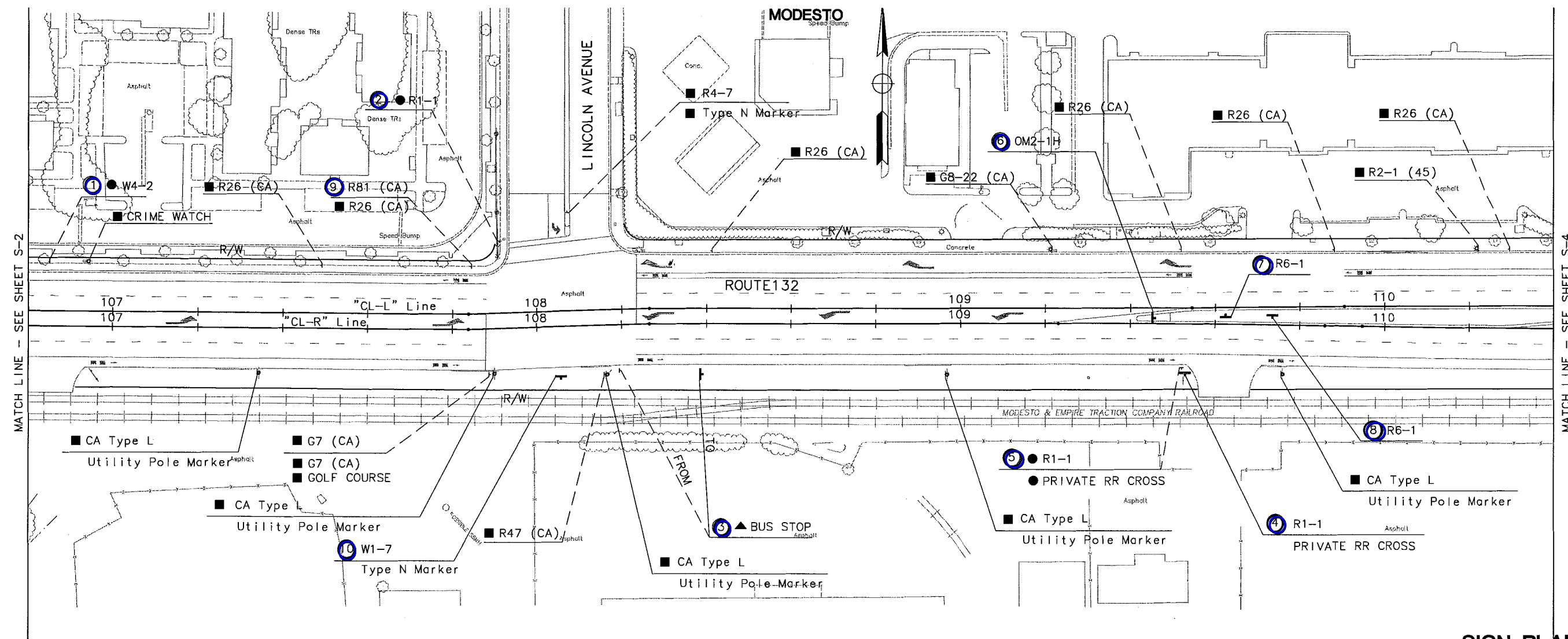
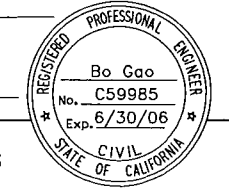
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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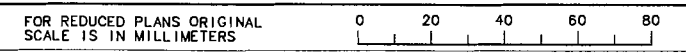


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**JULY 7, 2006**

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 SCALE 1:500  
**S-3**





DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	129	



REGISTERED CIVIL ENGINEER

Bo Gao  
No. C59985  
Exp. 6/30/06

PLANS APPROVAL DATE

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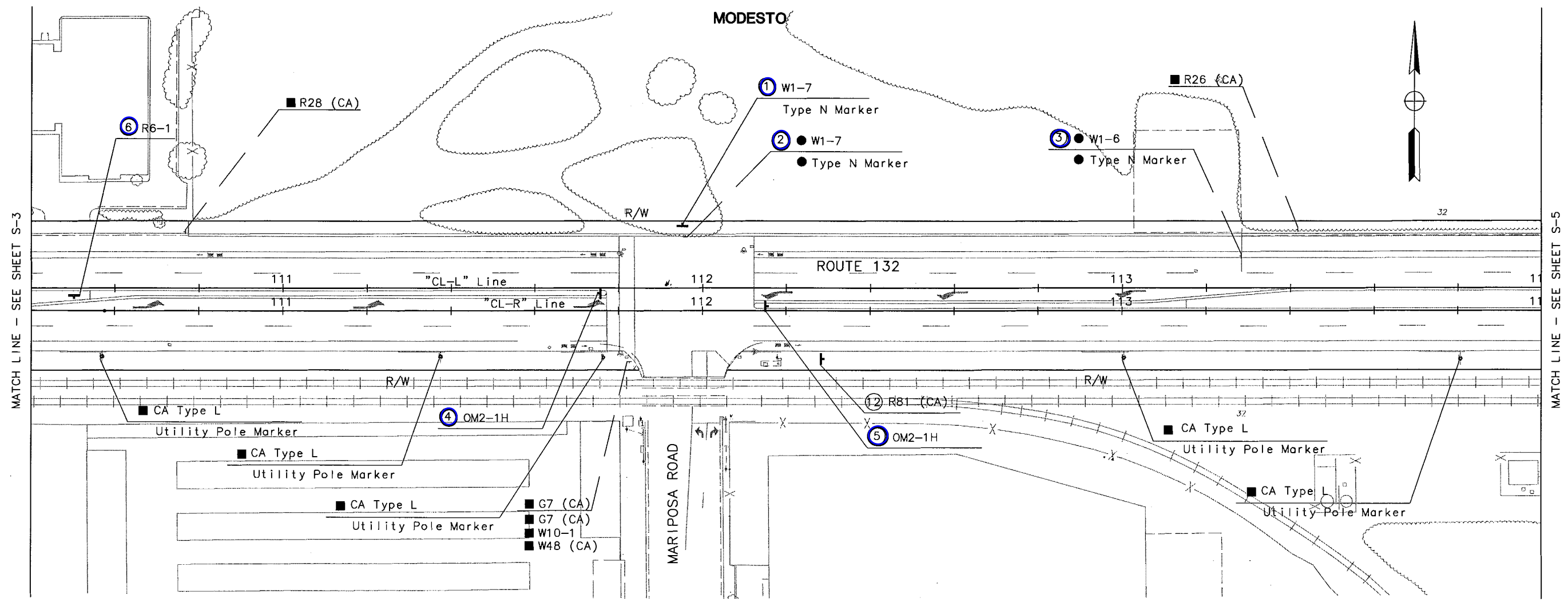
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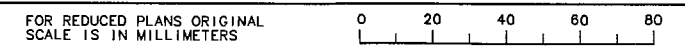


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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	130	

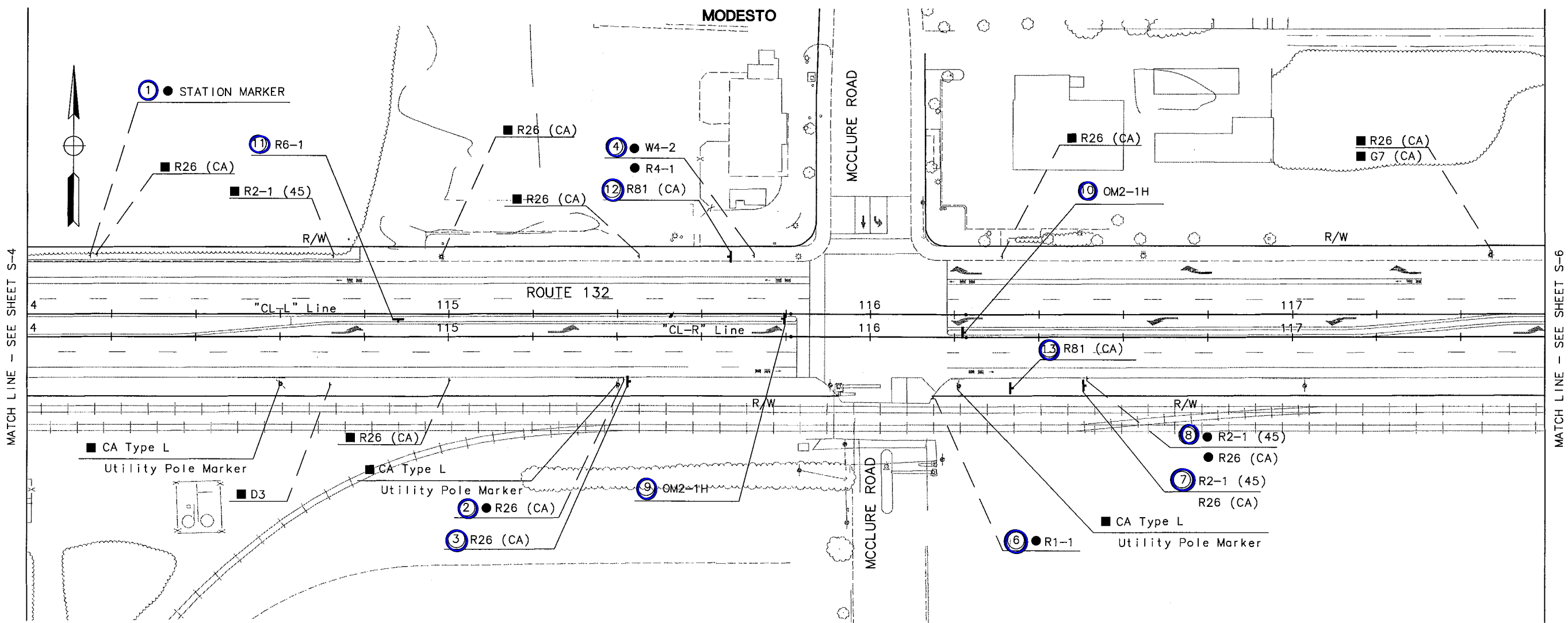
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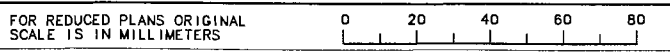


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10	STA	132	28.4/30.7	131	



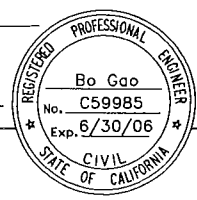
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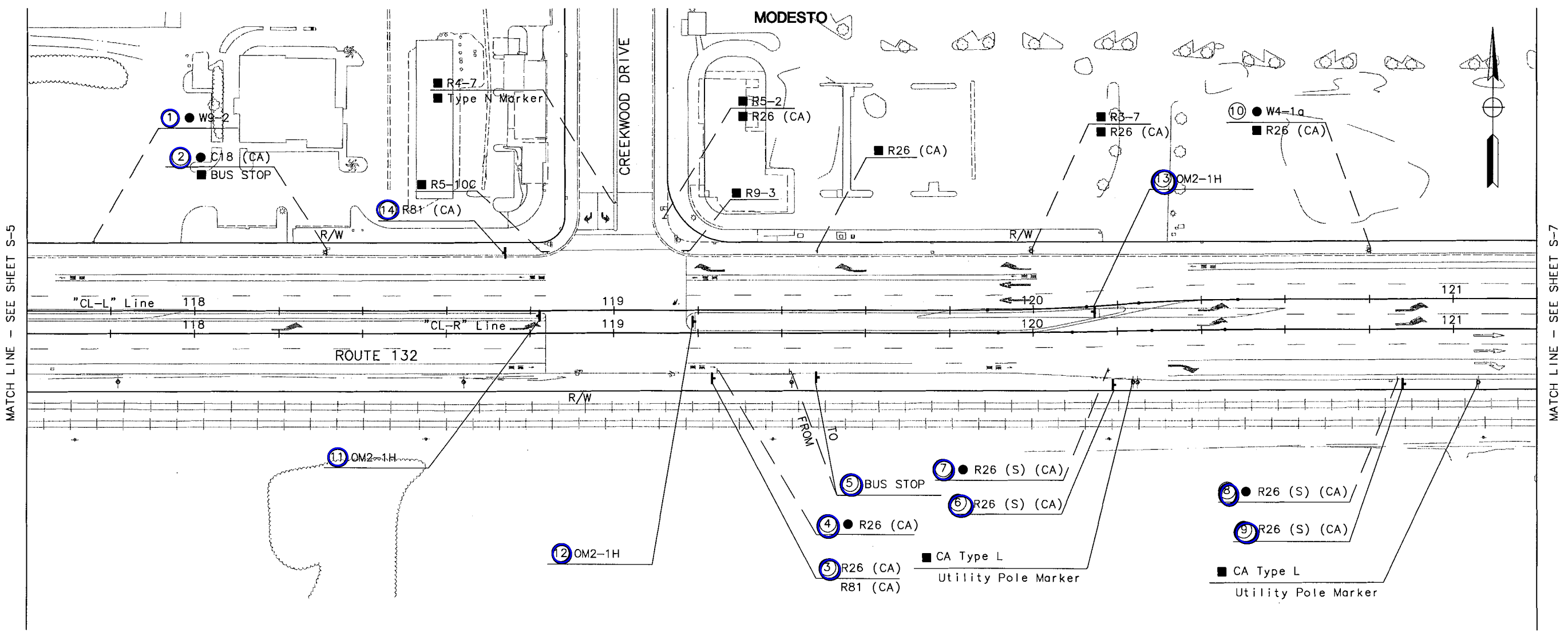
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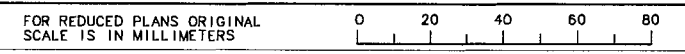


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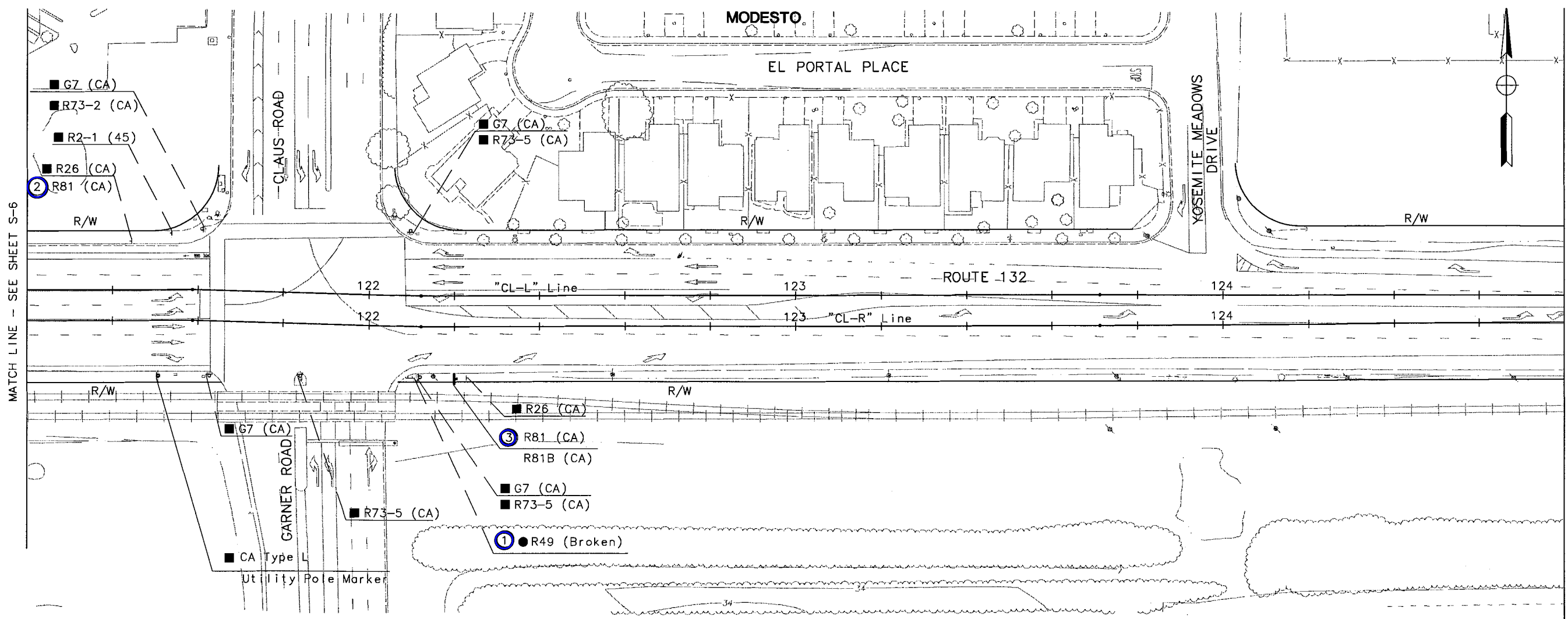
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	132	

REGISTERED CIVIL ENGINEER  
 Bo Gao  
 No. C59985  
 Exp. 6/30/06  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA

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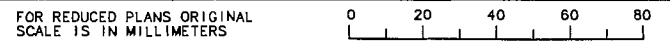
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	133	

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**ROADSIDE SIGN                      OBJECT MARKER**

PLAN SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE mm	POST LENGTH, TYPE & SIZE (m)		ROADSIDE SIGN ONE POST EACH	REMOVE ROADSIDE SIGN EACH	RELOCATE ROADSIDE SIGN EACH	OBJECT MARKER		REMOVE OBJECT MARKER EACH	REMARKS
				WOOD 89x140 m	TELESPAR TYPE 20F12-10				OM2-1H EACH	TYPE N EACH		
S-1	1	R7					1					
		OM2-1H									1	
	2	OM2-1V									1	
	3	OM2-1V									1	
	4	R2-1 (40)					1					
	5	R2-1 (40)	610 x 762		4.5	1						
	6	PRIVATE					1					
	7	R6-1					1					
	8	G7 (CA)					1					
	9	G7 (CA)	1440 x 762	4.5		1						
	10	R26 (CA)			4.5	1						
	11	R26 (CA)					1					
	12	G8-22 (CA)	1130 x 762	4.8		1						
	13	G8-22 (CA)					1					
	14	OM2-1H			1.4				1			
	15	R81 (CA)	610 x 450		4.8	1						
R81B (CA)		200 x 125										
16	R81 (CA)	610 x 450		4.5	1							
S-2	1	NO PARKING		4.5		1		1				
	2	G7 (CA)					1					
		G7 (CA)										
	3	G7 (CA)	1025 x 225		4.8	1						
		G7 (CA)	1225 x 225									
	4	R1-1					1					
	5	R1-1	762 x 762	4.8		1						
	6	M3-2						1				
		G28-2 (CA)										
	7	M3-2	610 x 305	5.0		1						
		G28-2 (CA)	712 x 635									
	8	G8-22 (CA)						1				
	9	G8-22 (CA)	1200 x 762	4.8		1						
	10	R1-1						1				
		PRRX										
11	R1-1	762 x 762	5.0		1							
	PRRX	610 x 1067										
12	R6-1	900 x 300	4.8		1							
13	R6-1	900 x 300	4.8		1							
14	OM2-1H			1.4				1				
15	R81 (CA)	610 x 450		4.5	1							
SHEET TOTAL						15	12	1	2	3		

**ABBREVIATIONS**

PRRX                      Private Railroad Crossing

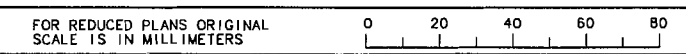
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Caltrans  
 DESIGN OVERSIGHT  
 CHRST INA HIBBARD  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE 5/06  
 REVISOR 5/06  
 DATE 5/06  
 REVISOR

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SQ-1.

**FINAL SUBMITTAL  
 JULY 7, 2006**

**SIGN QUANTITIES  
 SQ-1**





DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	134	

REGISTERED CIVIL ENGINEER



PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354

RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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**ROADSIDE SIGN                      OBJECT MARKER**

PLAN SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE	POST LENGTH, TYPE & SIZE (m)		ROADSIDE SIGN	REMOVE ROADSIDE SIGN	RELOCATE ROADSIDE SIGN	OBJECT MARKER		REMOVE OBJECT MARKER	REMARKS
				WOOD 89x140 m	TELESPAR TYPE 20F12-10				ONE POST	OM2-1H		
S-3	1	W4-2					1					
	2	R1-1					1					
	3	BUS STOP	305 x 457		4.5			1				
	4	R1-1	762 x 762	5.0		1						
		PRRX	610 x 1067									
	5	R1-1						1				
		PRRX										
	6	OM2-1H	300 x 150		1.4				1			
	7	R6-1	900 x 300	4.8		1						
	8	R6-1	900 x 300	4.8		1						
9	RB1 (CA)	610 x 450			1						ATTACH ON EXISTING POST	
10	W1-7	1200 x 600	4.5		1							
	N MARKER	450 x 450							1		SIGN AND OBJECT MARKER MOUNTED ON SAME POST	
S-4	1	W1-7	1200 x 600	4.5		1						SIGN AND OBJECT MARKER MOUNTED ON SAME POST
		N MARKER	450 x 450						1			
	2	W1-7					1				1	REMOVE BOTH SIGN AND OBJECT MARKER
		OM1-3										
	3	W1-6					1					REMOVE BOTH SIGN AND OBJECT MARKER
		N MARKER									1	
	4	OM2-1H	300 x 150		1.4				1			
5	OM2-1H	300 x 150		1.4				1				
6	R6-1	900 x 300	4.8		1							
7	RB1 (CA)	610 x 450		4.5	1							
SHEET TOTAL						8	5	1	3	2	2	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
  
 DESIGN OVERSIGHT  
 CHRISTINA HIBBARD

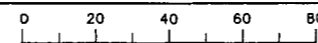
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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SQ-1.

**FINAL SUBMITTAL  
 JULY 7, 2006**

**SIGN QUANTITIES  
 SQ-2**

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 9-3-04

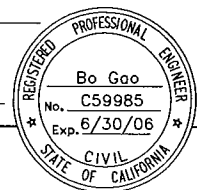


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	135	

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

STANISLAUS  
COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354



RAJAPPAN & MEYER  
CONSULTING ENGINEERS, INC.  
1038 LEIGH AVENUE, SUITE 100  
SAN JOSE, CALIFORNIA 95126

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**ROADSIDE SIGN                      OBJECT MARKER**

PLAN SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE mm	POST LENGTH, TYPE & SIZE (mm)		ROADSIDE SIGN ONE POST EACH	REMOVE ROADSIDE SIGN EACH	RELOCATE ROADSIDE SIGN EACH	OBJECT MARKER		REMOVE OBJECT MARKER EACH	REMARKS	
				WOOD 89x140 m	TELESPAR TYPE 20F12-10				OM2-1H EACH	TYPE N EACH			
S-5	1	STA MARKER									1		
	2	R26 (CA)					1						
	3	R26 (CA)	305 x 457		4.5	1							
	4	W4-2						1					
		R4-1											
	5	R1-1					1						
	6	R1-1					1						
	7	R2-1 (45)	610 x 762		4.8	1							
		R26 (CA)	305 x 457										
	8	R2-1					1						
	9	OM2-1H	300 x 150		1.4					1			
	10	OM2-1H	300 x 150		1.4					1			
	11	R6-1		4.8		1							
12	R81 (CA)	610 x 450		4.5	1								
13	R81 (CA)	610 x 450		4.5	1								
S-6	1	W9-2					1						
	2	C18 (CA)					1					KEEP BUS STOP SIGN.	
		BUS STOP	305 x 457										
	3	R26 (CA)	305 x 457		4.5	1							
		R81 (CA)	610 x 450										
	4	R26 (CA)					1						
	5	BUS STOP	305 x 457		4.5	1		1					
	6	R26(S) (CA)	305 x 457		4.5	1	1						
	7	R26(S) (CA)					1						
	8	R26(S) (CA)					1						
	9	R26(S) (CA)	305 x 457		4.5	1							
	10	W4-1a					1						
	11	OM2-1H	300 x 150		1.4					1			
	12	OM2-1H	300 x 150		1.4					1			
13	OM2-1H	300 x 150		1.4					1				
14	R81 (CA)	610 x 450		4.5	1								
S-7	1	R49(Broken)					1						
	2	R81 (CA)	610 x 450			1						ATTACH ON EXISTING POST	
	3	R81 (CA)	610 x 450		4.8	1							
		R81B (CA)	200 x 125										
SHEET TOTAL						12	13	1	5	1			
TOTAL						35	30	3	12	6			

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 DESIGN OVERSIGHT  
 CHRISTINA HIBBARD  
 Caltrans

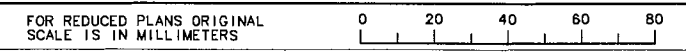
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 DATE 5/06

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**FINAL SUBMITTAL  
JULY 7, 2006**

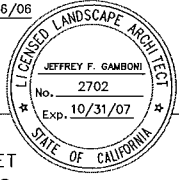
**SIGN QUANTITIES  
SQ-3**





DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	136	

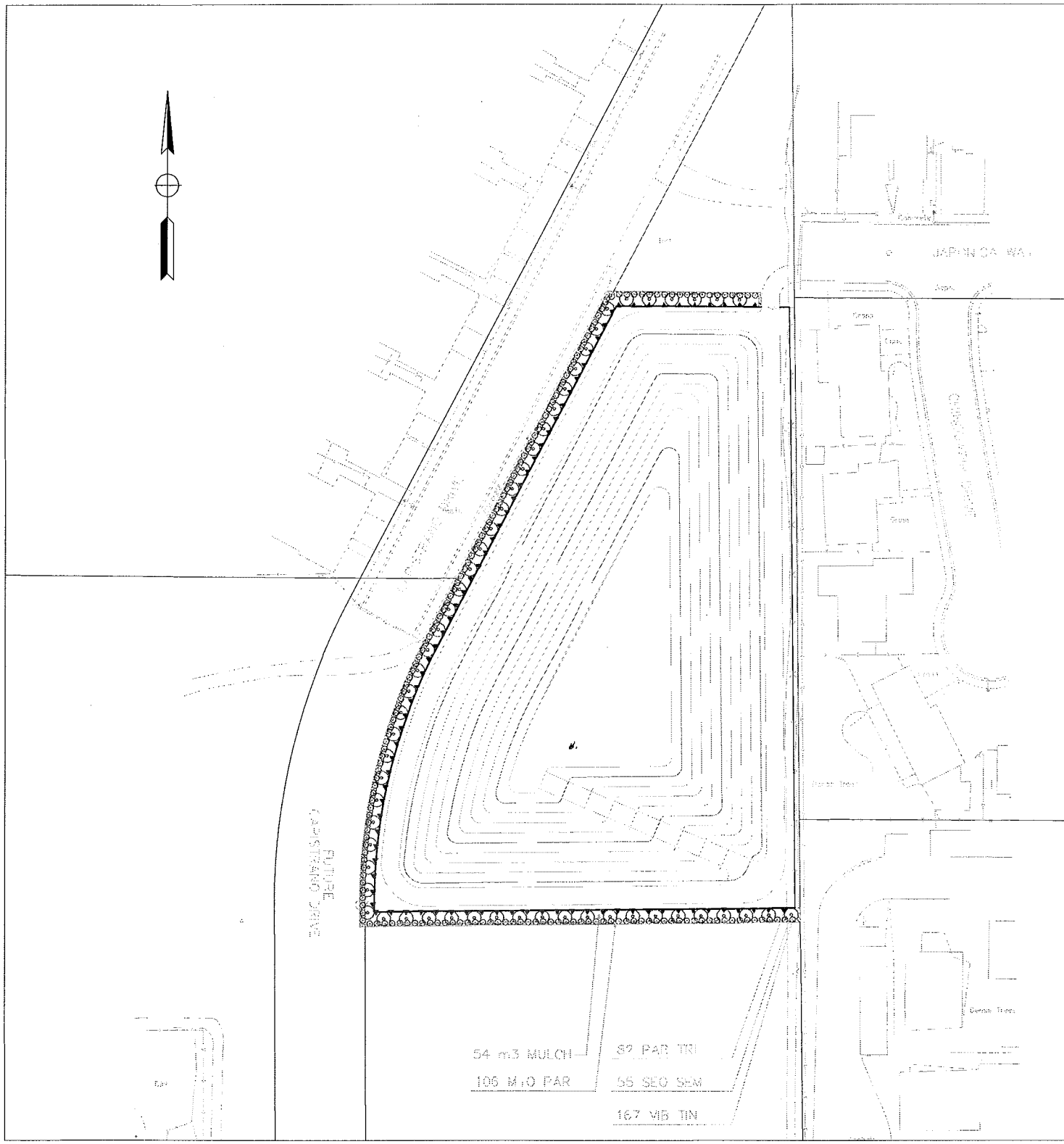
03/06/06  
 LICENSED LANDSCAPE ARCHITECT  
 PLANS APPROVAL DATE  
 CITY OF STOCKTON  
 425 NORTH EL DORADO STREET  
 STOCKTON, CALIFORNIA 95202



JEFFREY GAMBONI  
 LANDSCAPE ARCHITECT  
 3012 PACIFIC AVENUE  
 STOCKTON, CALIFORNIA 95204

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	BY	REVIS
	BY	DATE
	BY	REVIS



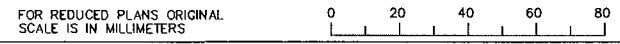
54 m<sup>3</sup> MULCH  
 105 M<sup>2</sup> PAR  
 16.7 VIB TIN  
 S2 PAR TIN  
 55 SEG S-N  
 16.7 VIB TIN

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**FINAL SUBMITTAL**  
**JULY 7, 2006**

**PLANTING PLAN**  
 SCALE 1:500

**P-1**



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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	157	

03/06/06  
 LICENSED LANDSCAPE ARCHITECT  
 PLANS APPROVAL DATE  
 CITY OF STOCKTON  
 425 NORTH EL DORADO STREET  
 STOCKTON, CALIFORNIA 95204  
 JEFFREY GAMBONI  
 LANDSCAPE ARCHITECT  
 3012 PACIFIC AVENUE  
 STOCKTON, CALIFORNIA 95204

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**ABBREVIATIONS**

- |                                |                               |
|--------------------------------|-------------------------------|
| AMEND —amendment               | MIN ——— minimum               |
| B & B —balled and burlapped    | mm ——— millimeter             |
| DIA ——— diameter               | No. ——— number                |
| EA ——— each                    | N T S ——— not to scale        |
| g ——— gram                     | PLT ESTB —plant establishment |
| kg ——— kilogram                | PVMT ——— pavement             |
| m ——— meter                    | R/W ——— right of way          |
| m <sup>2</sup> —square meter   | SF ——— state furnished        |
| m <sup>3</sup> ——— cubic meter | TAB ——— tablet(s)             |
| MAX ——— maximum                | TRVD ——— traveled             |

**PLANT LIST AND PLANTING SPECIFICATIONS**

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (mm)		BASIN TYPE	IRON SULFATE ①	SOIL AMEND ①	COMMERCIAL FERTILIZER ①		MULCH ①	STAKING	PLANTING LIMITS						REMARKS
							DIA	DEPTH				PLANTING	PLT ESTB			MINIMUM DISTANCE (m) FROM				ON CENTER (m)		
																TRVD WAY	PVMT	FENCE	WALL		PAVED	
A	1	▼	<u>PARTHENO</u> CISSUS <u>IRICUS</u> PIDATA	BOSTON IVY	No. 1	82	②		III	-	0.03 m <sup>3</sup>	1 TAB	60g	0.03 m <sup>3</sup>	-	-	-	-	-	-	3.048	VINE
B	2	○	<u>VIBURNUM</u> <u>TINUS</u> 'SPRING BOUQUET'	SPRING BOUQUET LAURUSTINUS	No. 5	167	②		I	-	0.09 m <sup>3</sup>	2 TAB	115g	0.09 m <sup>3</sup>	-	-	-	-	-	-	1.524	SHRUB
F	3	▨	<u>MYOPORUM</u> <u>PARVIFOLIA</u>	-----	IN FLATS	106	②		-	-	-	-	-	-	-	-	-	-	-	-	2.5	SHRUB
U	4	⊙	<u>SEQUOIA</u> <u>SEMPERVIRENS</u> 'APTOS BLUE'	APTOS BLUE REDWOOD	No. 15	55	②		II	-	0.37 m <sup>3</sup>	3 TAB	230g	0.37 m <sup>3</sup>	⑥	-	-	-	-	-	4.572	TREE

**APPLICABLE WHEN CIRCLED:**

- ①-Quantities shown are "per plant" unless shown as m<sup>2</sup> application rates.
- ②-Sufficient to receive root ball.
- ③-Does not apply to mulch areas.
- ④-As shown on plans.
- ⑤-Unless otherwise shown on plans.
- ⑥-See detail.
- 7-See Special Provisions.

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**NOTE:**

Underlined portions of botanical name indicate abbreviations used on Planting Plans.

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 JULY 7, 2006**

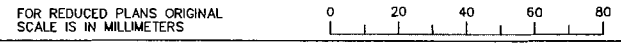
**PLANT LIST  
 PL-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
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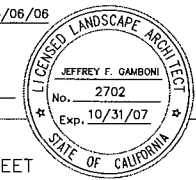
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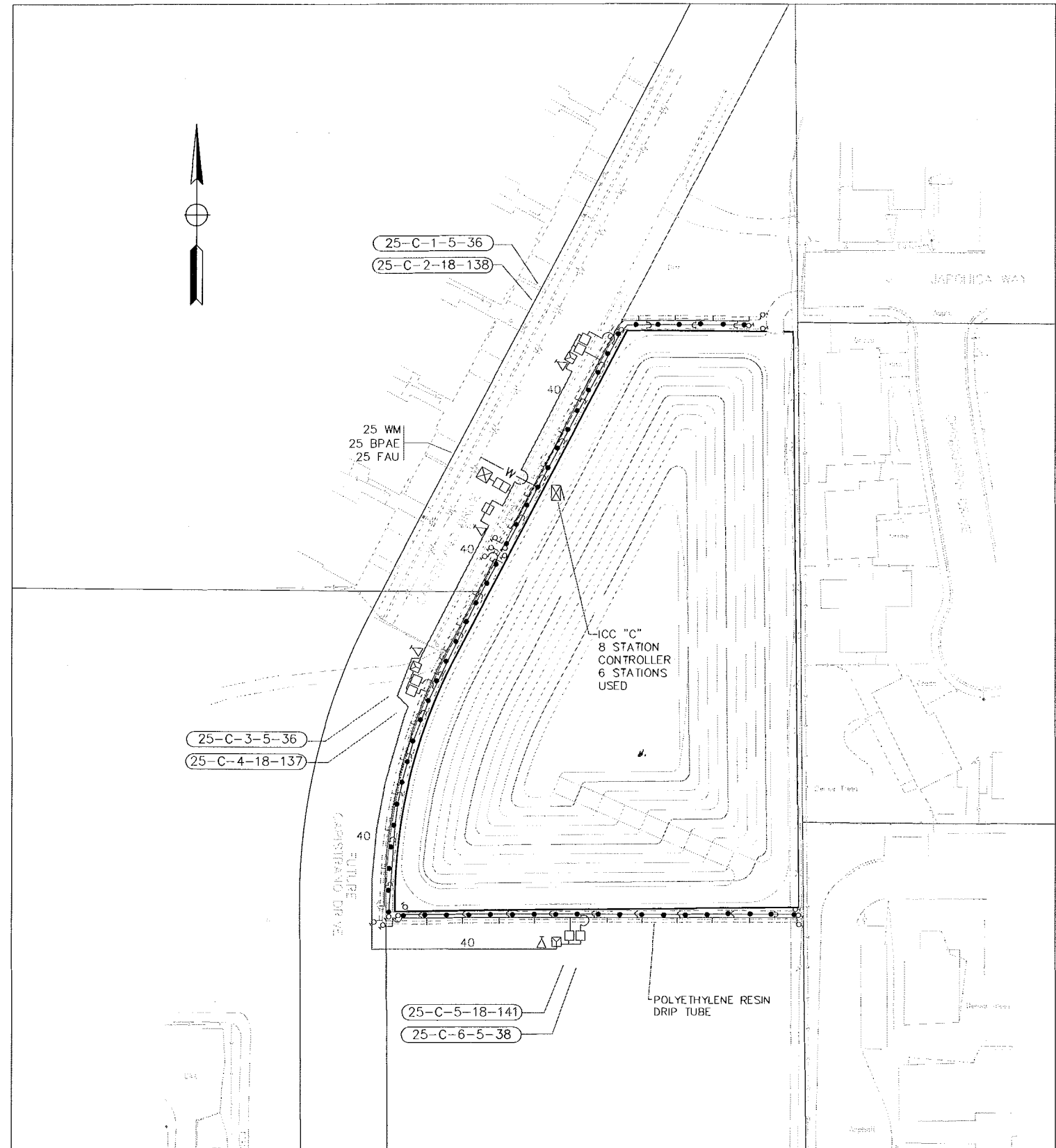
03/06/06  
 LICENSED LANDSCAPE ARCHITECT  
 PLANS APPROVAL DATE  
 CITY OF STOCKTON  
 425 NORTH EL DORADO STREET  
 STOCKTON, CALIFORNIA 95202



JEFFREY GAMBONI  
 LANDSCAPE ARCHITECT  
 3012 PACIFIC AVENUE  
 STOCKTON, CALIFORNIA 95204

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**IRRIGATION PLAN**  
 SCALE 1:500  
**FINAL SUBMITTAL**  
**JULY 7, 2006**  
**I-1**

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 DATE REVISIONS BY

**ABBREVIATIONS**  
 EA — each  
 DIP — ductile iron pipe  
 GSP — galvanized steel pipe  
 m — meter  
 mm — millimeter  
 PR — pressure rated

SUBTOTALS PER VALVE ON LATERAL SUPPLY SIDE OF CONTROL VALVE



DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER																												SUBTOTALS	UNIT	DESCRIPTION
		C-1	C-2	C-3	C-4	C-5	C-6																									
PLASTIC PIPE SUPPLY LINE POLY IPR 200	25 mm	m	77	85	82	82	96	85																						507	m	25 mm
	705"	m		201		190	207																							1105	m	705"
SPRINKLER TYPE	D-1	EA	18	138	18	137	141	19																						471	EA	D-1

DIST 10 COUNTY STA ROUTE 132 KILOMETER POST TOTAL PROJECT 28.4/30.7 SHEET NO. 139 TOTAL SHEETS  
 LICENSED LANDSCAPE ARCHITECT 03/06/06  
 JEFFREY F. GAMBONI  
 No. 2702  
 Exp. 10/31/07  
 CITY OF STOCKTON  
 425 NORTH EL DORADO STREET  
 STOCKTON, CALIFORNIA 95202  
 JEFFREY GAMBONI  
 LANDSCAPE ARCHITECT  
 3012 PACIFIC AVENUE  
 STOCKTON, CALIFORNIA 95204

SUBTOTALS PER PLAN SHEET ON MAIN SUPPLY SIDE OF CONTROL VALVE

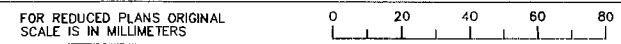
TOTAL QUANTITIES

DESCRIPTION	UNIT	SHEET NUMBER										SUBTOTALS
		1-1										
BPA	25 mm	EA	1									1
ENCLOSURE	EA	1										1
BOOSTER PUMP	EA	1										1
IRRIGATION CONTROLLER	8 STATION	EA										
	SINGLE	EA	1									1
VALVES AND ASSEMBLIES	25 mm	EA	6									6
	40 mm	EA	4									4
	25 mm	EA	1									1
	25 mm	EA	3									3
CONDUIT	PR 200	m										
PLASTIC PIPE SUPPLY LINE	SCH 40	m										
	40 mm	m	360									360

TOTALS	UNIT	DESCRIPTION
1	EA	25 mm
1	EA	ENCLOSURE
1	EA	BOOSTER PUMP
1	EA	8 STATION
1	EA	SINGLE
	EA	DOUBLE
	EA	50 mm
	EA	40 mm
	EA	
6	EA	25 mm
4	EA	40 mm
	EA	
1	EA	25 mm
	EA	
3	EA	25 mm
	m	150 mm
	m	
360	m	40 mm
	m	
	m	
	m	
471	EA	D-1
	EA	
	EA	
	EA	

**ABBREVIATIONS**  
 BPA — backflow preventer assembly  
 BV — ball valve  
 CEC — controller enclosure cabinet  
 CSP — corrugated steel pipe  
 CV — check valve  
 DIP — ductile iron pipe  
 EA — each  
 FAU — filler assembly unit  
 FCV — flow control valve  
 FS — flow sensor  
 FV — flush valve  
 GSP — galvanized steel pipe  
 GV — gate valve  
 m — meter  
 mm — millimeter  
 MCV — manual control valve  
 PR — pressure rated  
 PRLV — pressure relief valve  
 PRV — pressure reducing valve  
 QCV — quick coupling valve  
 RCV — remote control valve  
 RCVM — remote control valve (master)  
 VAU — valve assembly unit  
 WSP — welded steel pipe  
 WS — wye strainer

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JULY 7, 2006

IRRIGATION QUANTITIES  
IQ-1

CU 06251 EA 3A1101

LAST REVISION 9-3-04 DATE PLOTTED -> DATE \$TIME



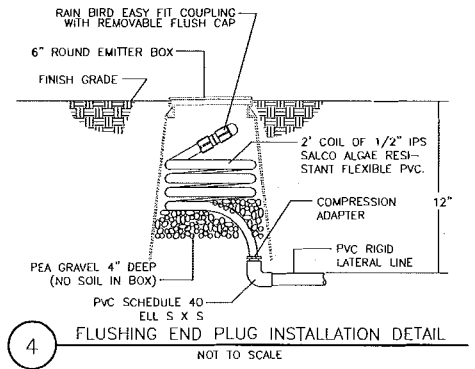
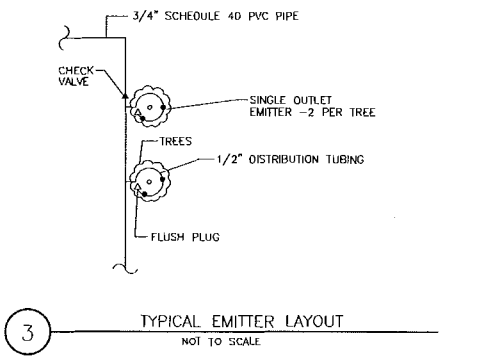
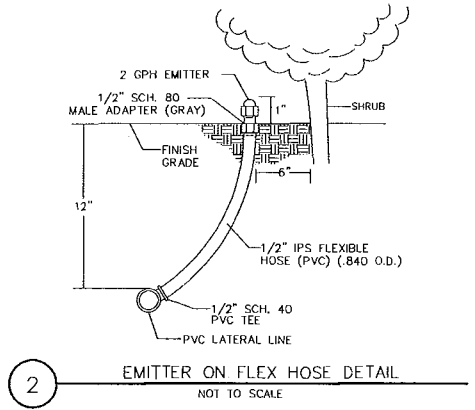
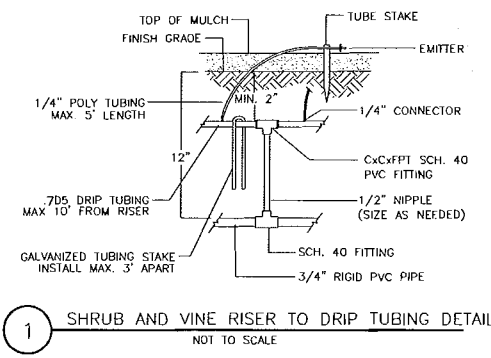
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN OVERSIGHT	CALCULATED/DESIGNED BY	BY	REVISOR	DATE
	CHRISTINA HIBBARD	CHECKED BY	DATE	REVISOR	DATE



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	141	

03/06/06  
 LICENSED LANDSCAPE ARCHITECT  
 PLANS APPROVAL DATE  
 CITY OF STOCKTON  
 425 NORTH EL DORADO STREET  
 STOCKTON, CALIFORNIA 95202  
 JEFFREY GAMBONI  
 LANDSCAPE ARCHITECT  
 3012 PACIFIC AVENUE  
 STOCKTON, CALIFORNIA 95204

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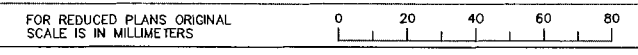


- DRIP IRRIGATION NOTES:
1. THE CONTRACTOR SHALL PROVIDE A DRIP EMITTER SYSTEM FOR ALL TREES, SHRUBS, AND GROUNDCOVER AS INDICATED ON THE IRRIGATION PLAN AND DETAILS.
  2. ACTUAL LAYOUT OF EMITTER SYSTEM SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD USING THE IRRIGATION PLAN AND THE DRIP IRRIGATION DETAILS AS A GUIDE, WHILE USING THE PLANTING PLAN FOR THE LOCATION AND QUANTITIES OF EMITTERS.
  3. INSTALL ALL DRIP EMITTERS AS DETAILED. REFER TO DRIP IRRIGATION DETAILS FOR MORE INFORMATION. EACH DRIP EMITTER IS 2 GPH (.1261 L/M)
  4. EACH TREE SHALL RECEIVE TWO EMITTERS. REFER TO THE PLANTING PLAN FOR THE LOCATION AND QUANTITY OF TREES.
  5. EACH SHRUB SHALL RECEIVE ONE EMITTER PLACED AT THE BASE OF THE PLANT. REFER TO THE PLANTING PLAN FOR THE LOCATION AND QUANTITY OF SHRUBS.
  6. EACH VINE SHALL RECEIVE ONE EMITTER PLACED AT THE BASE OF THE PLANT. REFER TO THE PLANTING PLAN FOR THE LOCATION AND QUANTITY OF VINES.
  7. EACH GROUNDCOVER SHALL RECEIVE ONE EMITTER PLACED AT THE BASE OF THE PLANT. REFER TO THE PLANTING PLAN FOR THE LOCATION AND QUANTITY OF GROUNDCOVER PLANTS.
  8. THE DRIP EMITTER SYSTEM LAYOUT SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING CONSTRUCTION AND AFTER PLANTING HAS BEEN COMPLETED.

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FINAL SUBMITTAL  
 JULY 7, 2006

SPRINKLER DETAILS  
 SD-2



USERNAME ==> \$USER  
 DGN FILE ==> \$REQUEST

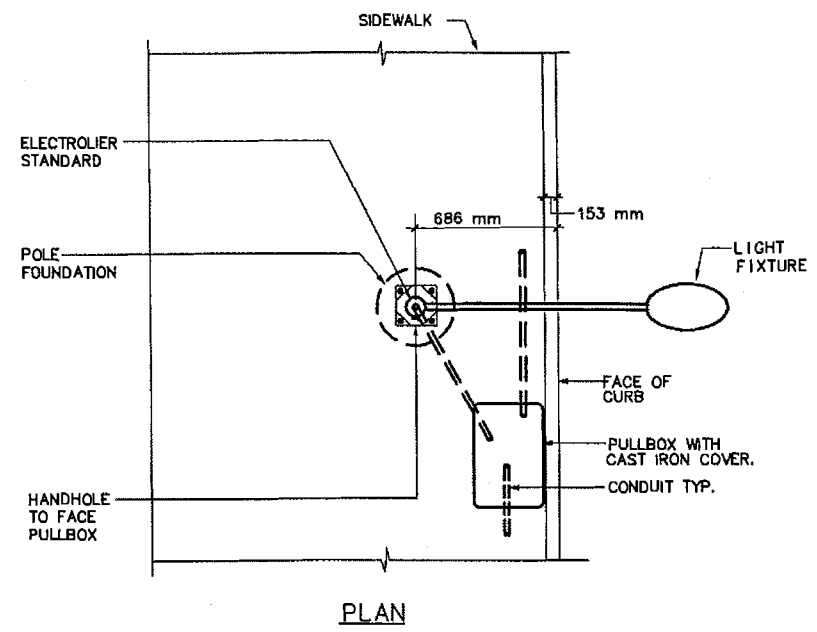
CU 06251

EA 3A1101

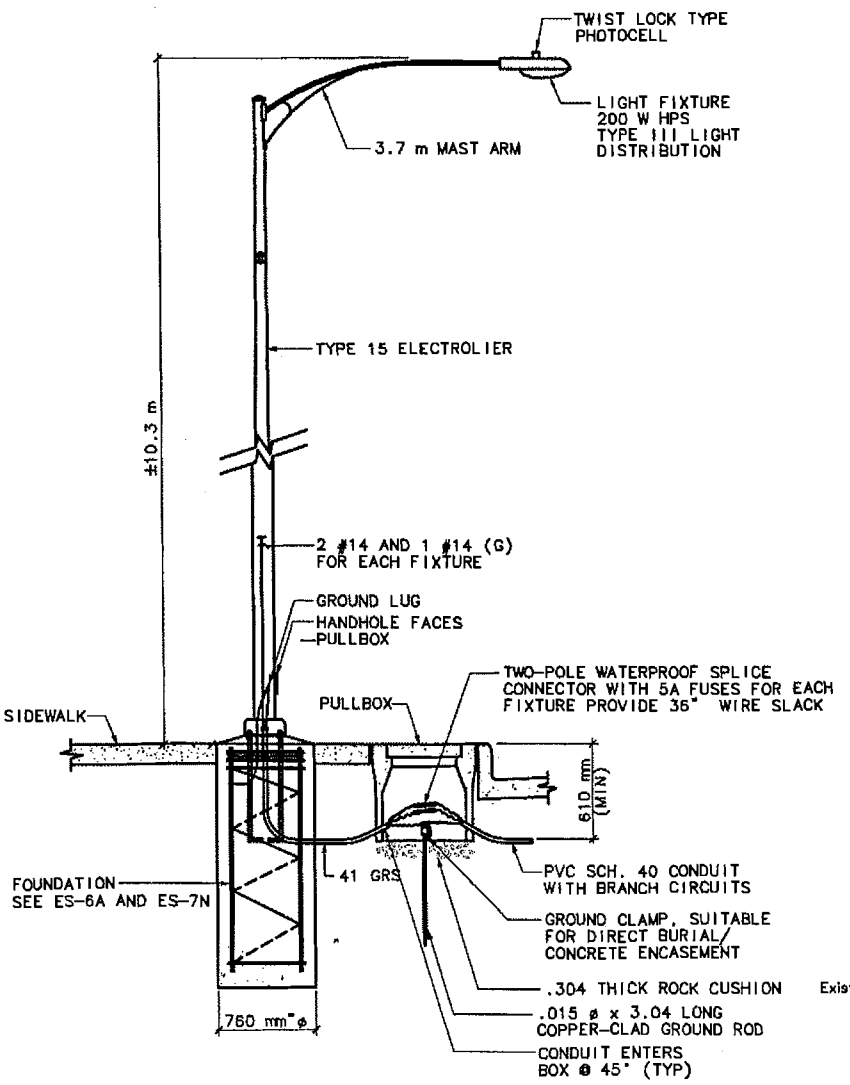
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 9-3-04

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DATE	REVISOR	DATE	REVISOR
7/06	7/06	7/06	7/06
VM	DC	VM	DC
CALCULATED/DESIGNED BY	CHECKED BY	CALCULATED/DESIGNED BY	CHECKED BY
TORZDA AKUVA		TORZDA AKUVA	
DESIGN OVERSIGHT			
DEPARTMENT OF TRANSPORTATION			
STATE OF CALIFORNIA			



PLAN



1 TYPICAL STREET LIGHTING INSTALLATION  
NO SCALE

- ### GENERAL NOTES
- ALL ELECTRICAL WORK SHALL CONFORM TO STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS DATED JULY 2002 AND STANDARD PLANS DATED JULY 2004.
  - THE ELECTRICAL PLANS ARE ACCURATE FOR ELECTRICAL WORK ONLY.
  - ALL EXISTING EQUIPMENT SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED.
  - LOCATION OF CONTROLLERS, STANDARDS, CONDUITS, PULL BOXES AND OTHER EQUIPMENT SHOWN ON THE PLANS ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
  - EQUIPMENT MOUNTED ON POLES OR STANDARDS SHALL BE INSTALLED ON THE SIDE OPPOSITE APPROACHING TRAFFIC EXCEPT WHERE TERMINAL COMPARTMENTS ARE NOT USED.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES BEFORE EXCAVATION BEGINS CALL UNDERGROUND SERVICE ALERT AT 800-642-2444. CONTRACTOR SHALL VERIFY OVERHEAD CLEARANCE WITH MID AND SBC PRIOR TO START OF WORK. CONTRACTOR SHALL ALSO CONTACT THE LOCAL AGENCIES TO LOCATE EXISTING WATER, SANITARY SEWER, AND STORM DRAIN LINES.
  - CONTACT CALTRANS (B. MEHRINGER) AT (209) 948-7357 WHEN ANY UTILITY COMPANY SERVICES ARE CONNECTED OR DISCONNECTED.

- ### PROJECT NOTES
- EXISTING CITY ELECTROLIER WITH TYPE 15 STANDARD 3.7 m MASTARM AND 200 W HPS LUMINAIRE WITH INTEGRAL BALLAST.
  - INSTALL 41C, 2 #8 & 1 #8 (G) (CITY STREET LIGHTING, 240 V)
  - EXISTING MID UTILITY POLE WITH 200 W HPS LIGHT FIXTURE.
  - SEE DETAIL 2 ON THIS SHEET FOR CONDUIT ENTRY INTO EXISTING TRAFFIC SIGNAL CABINET.
  - RELOCATED EXISTING STREETLIGHT TO THE NEW LOCATION INDICATED. [AB] THE EXISTING FOUNDATION.
  - INSTALL 53C, 3 #2 (SERVICE 120/240 V)
  - INSTALL 41C, 2 #10 & 1 #10 (G) (IRRIGATION CONTROLLER, 120 V)
  - INSTALL NEW TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH ITEMS No. 1 THROUGH 8, 15 AND 18. SEE ES-2D FOR WIRING DIAGRAM AND FOUNDATION DETAILS.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	142	

David W. Clow 7/07/06  
 PROFESSIONAL ELECTRICAL ENGINEER

PLANS APPROVAL DATE  
 STANISLAUS  
 COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

ALLIANCE ENGINEERING CONSULTANTS, INC  
 4701 PATRICK HENRY DRIVE, BUILDING 10  
 SANTA CLARA, CALIFORNIA 95054

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### CITY LIGHT FIXTURE SCHEDULE

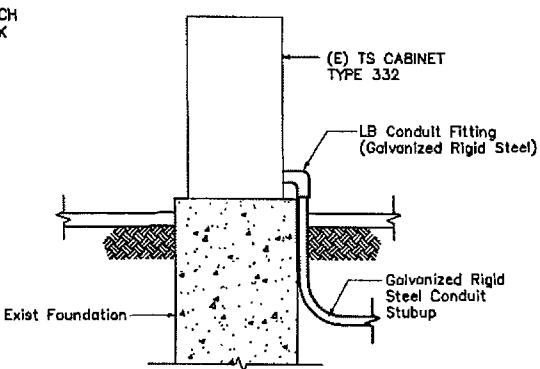
MARK	MANUFACTURERS MODEL NO.	QTY.	LAMPS TYPE	TOTAL WATTS	VOLTS	MOUNTING	DESCRIPTION AND REMARKS
(A)	GE M-400A CAT No. MDRL20S3A2GMC31U	1	200 W CLEAR HPS	250	240	SEE ES-6A SEE (E-1)	CALTRANS TYPE 15 ELECTROLIER, 3.7m MAST ARM AND LUMINAIRE WITH DROPPED REFRACTOR, PLUG-IN IGNITOR AND POWER DOOR WITH AUTOREG BALLAST

### SYMBOLS AND ABBREVIATIONS

(SEE ALSO ES-1A, ES-1B AND ES-1C)

NEW	EXISTING	DESCRIPTION
		CITY OF MODESTO ELECTROLIER SEE LIGHT FIXTURE SCHEDULE FOR DETAILS. INSTALL PER ES-11 UNLESS OTHERWISE NOTED.
		TYPE 1 PEDESTRIAN BARRICADE
		AUDIBLE PEDESTRIAN SIGNAL
		TELEPHONE DEMARCATION CABINET TYPE "C"
		TELEPHONE SERVICE POINT
		PULLBOX 5(E) U.O.N. SEE ES-8.
		IRRIGATION CONTROLLER CANINET
BBS EV		BATTERY BACKUP SYSTEM EMERGENCY VEHICLE PRE-EMPTION
Found.		FOUNDATION
IND		85 W INDUCTION LAMP
INT		INTERMEDIATE
ICC		IRRIGATION CONTROLLER CABINET
OH	oh	OVERHEAD ELECTRIC
AT&T		AMERICAN TELEPHONE & TELEGRAPH
MID		MODESTO IRRIGATION DISTRICT
TS		TRAFFIC SIGNAL
TDC		TELEPHONE DEMARCATION CABINET
TEL		TELEPHONE
UON		UNLESS OTHERWISE NOTED
W		WATT

2 TYPICAL CONDUIT STUB-UP IN EXISTING CABINET  
NO SCALE



FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

FINAL SUBMITTAL  
JULY 07, 2006

ELECTRICAL NOTES,  
SYMBOLS AND ABBREVIATIONS

E-1

CU 06251 EA 3A1101

DATE PLOTTED => DATE



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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 TORZUA AKUVA

DATE	REVISOR	BY
7/06	VM	DC
7/06	DC	DATE

DATE	REVISOR	BY
7/06	VM	DC
7/06	DC	DATE



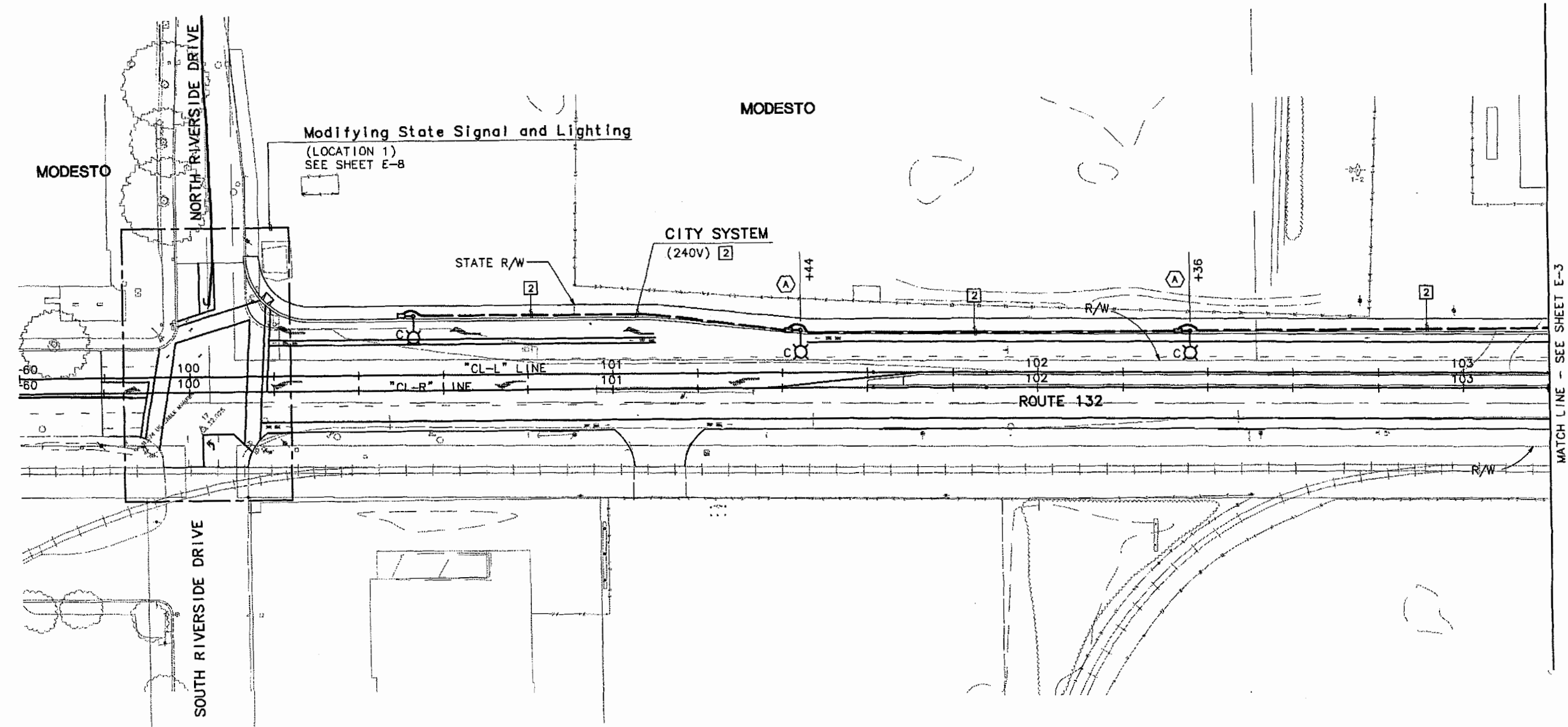
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10	STA	132	28.4/30.7	143	

David W. Clow 7/07/06  
 PROFESSIONAL ELECTRICAL ENGINEER

PLANS APPROVAL DATE  
 STANISLAUS  
 COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

ALLIANCE ENGINEERING CONSULTANTS, INC  
 4701 PATRICK HENRY DRIVE, BUILDING 10  
 SANTA CLARA, CALIFORNIA 95054

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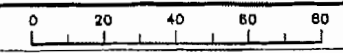
MATCH LINE - SEE SHEET E-3

**LIGHTING (CITY)**  
 SCALE: 1:500

**FINAL SUBMITTAL**  
**JULY 07, 2006**

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 FOR NOTES, SYMBOLS AND ABBREVIATIONS, SEE SHEET E-1.

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 DGN FILE => \$REQUEST

CU 06251

EA 3A1101

E-2

9-3-04 DATE PLOTTED => \$DATE

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 DESIGN OVERSIGHT  
 IORZUA AKUVA  
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Caltrans

DATE	REVISOR	BY
7/06	DC	DATE REVISOR
7/06	VM	DATE REVISOR
	DC	DATE REVISOR
	VM	DATE REVISOR

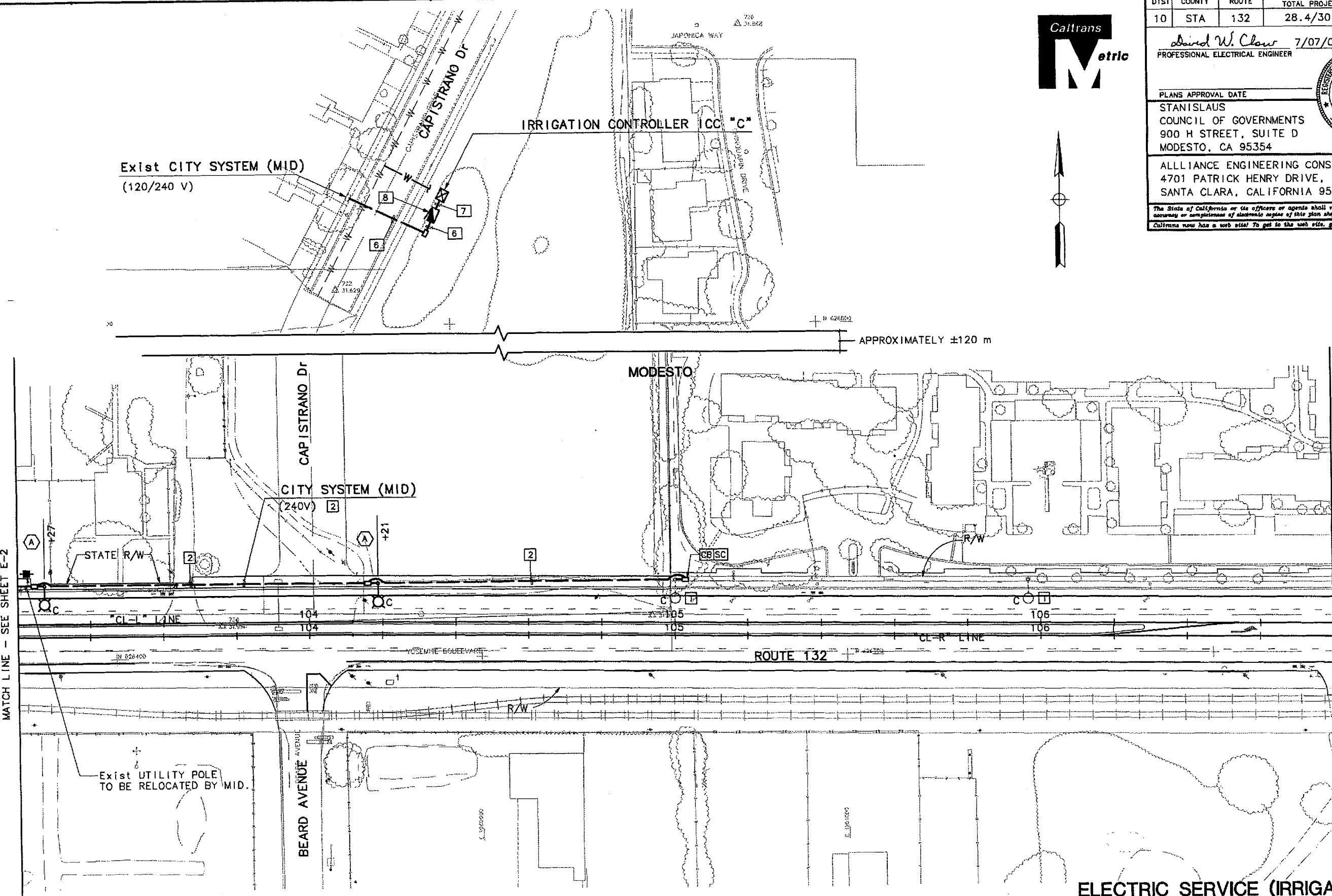
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 PROFESSIONAL ELECTRICAL ENGINEER

PLANS APPROVAL DATE  
 STANISLAUS  
 COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

ALLIANCE ENGINEERING CONSULTANTS, INC  
 4701 PATRICK HENRY DRIVE, BUILDING 10  
 SANTA CLARA, CALIFORNIA 95054

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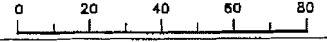


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 FOR NOTES, SYMBOLS AND ABBREVIATIONS, SEE SHEET E-1.

FINAL SUBMITTAL  
 JULY 07, 2006

ELECTRIC SERVICE (IRRIGATION)  
 LIGHTING (CITY)  
 SCALE: 1:500

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 DGN FILE => \$REQUEST

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E-3

DATE PLOTTED => \$DATE  
 \$TIME  
 LAST REVISION  
 9-3-04

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
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 IORZUA AKUVA  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 VM DC  
 DATE 7/06  
 REVISOR BY  
 DATE REVISOR



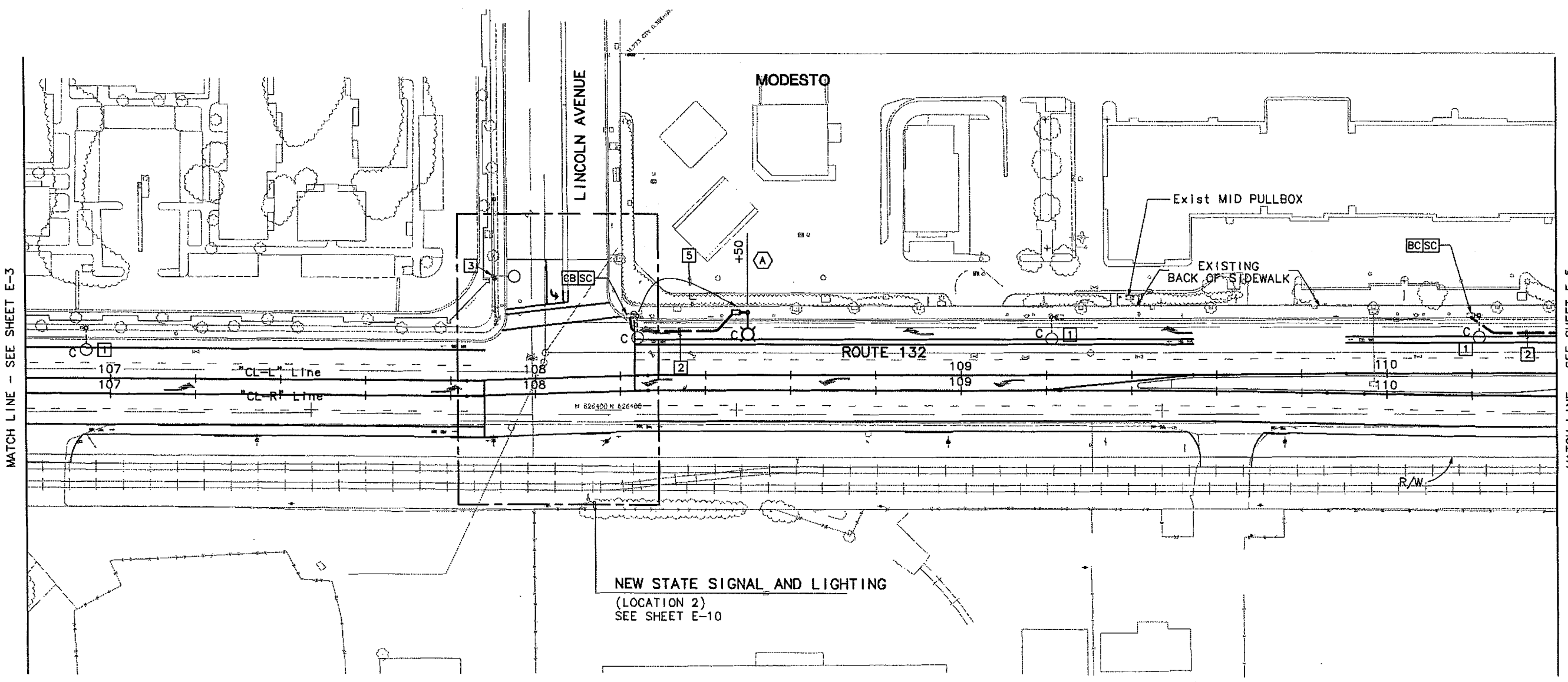
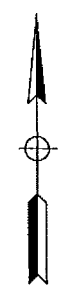
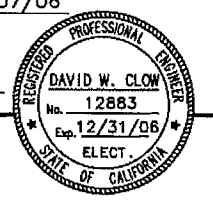
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10	STA	132	28.4/30.7	145	

David W. Clow 7/07/06  
 PROFESSIONAL ELECTRICAL ENGINEER

PLANS APPROVAL DATE  
 STANISLAUS COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

ALLIANCE ENGINEERING CONSULTANTS, INC  
 4701 PATRICK HENRY DRIVE, BUILDING 10  
 SANTA CLARA, CALIFORNIA 95054

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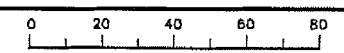
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 FOR NOTES, SYMBOLS AND ABBREVIATIONS, SEE SHEET E-1.

**LIGHTING (CITY)**  
 SCALE: 1:500

**FINAL SUBMITTAL**  
**JULY 07, 2006**

E-4

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CU 06251

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 \$TIME  
 LAST REVISION  
 9-3-04

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 IORZUA AKUVA  
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 CHECKED BY: DC  
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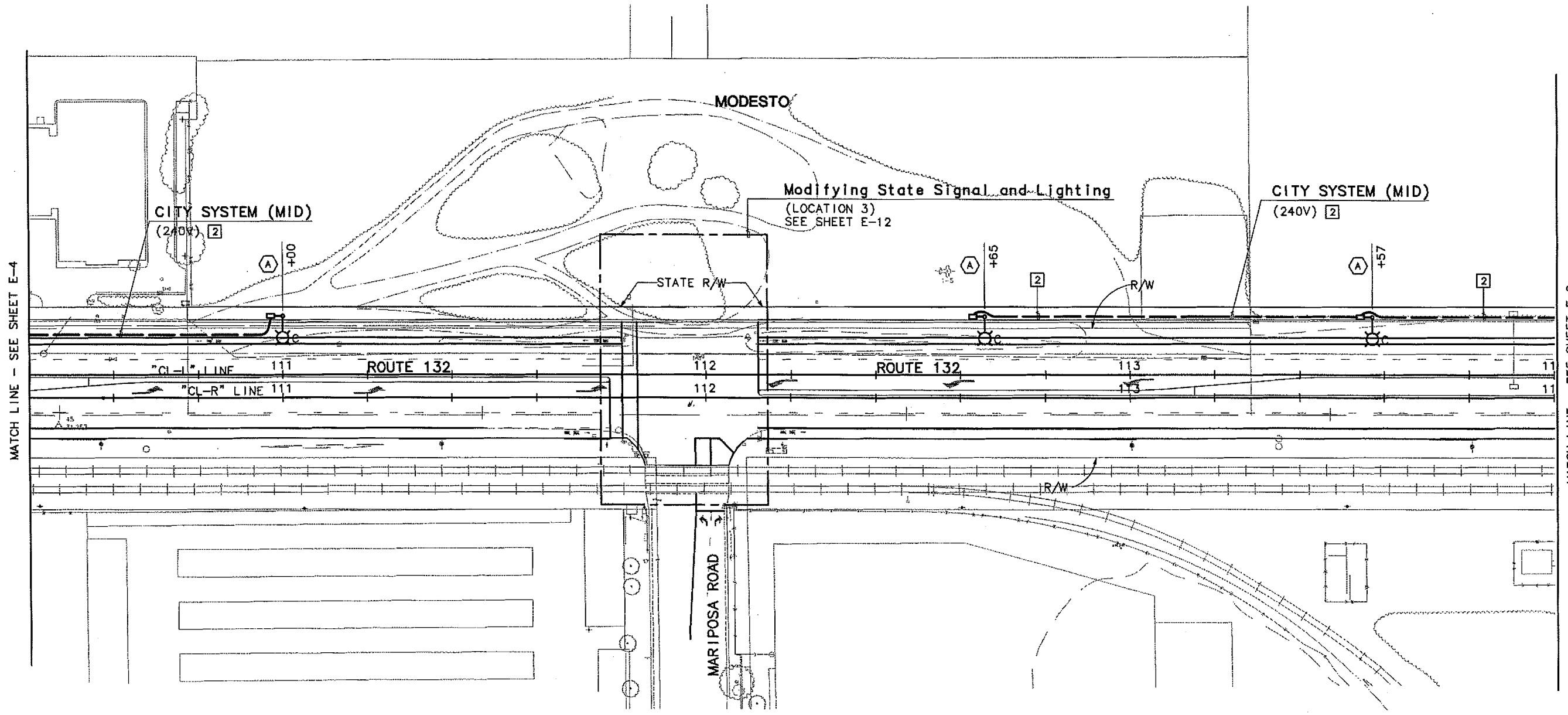
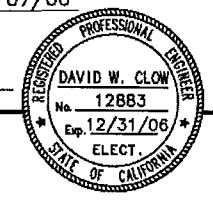
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10	STA	132	28.4/30.7	14b	

David W. Clow 7/07/06  
 PROFESSIONAL ELECTRICAL ENGINEER

PLANS APPROVAL DATE: 7/07/06  
 STANISLAUS COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

ALLIANCE ENGINEERING CONSULTANTS, INC  
 4701 PATRICK HENRY DRIVE, BUILDING 10  
 SANTA CLARA, CALIFORNIA 95054

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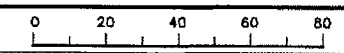
**LIGHTING (CITY)**  
 SCALE: 1:500

**FINAL SUBMITTAL**  
**JULY 07, 2006**

**E-5**

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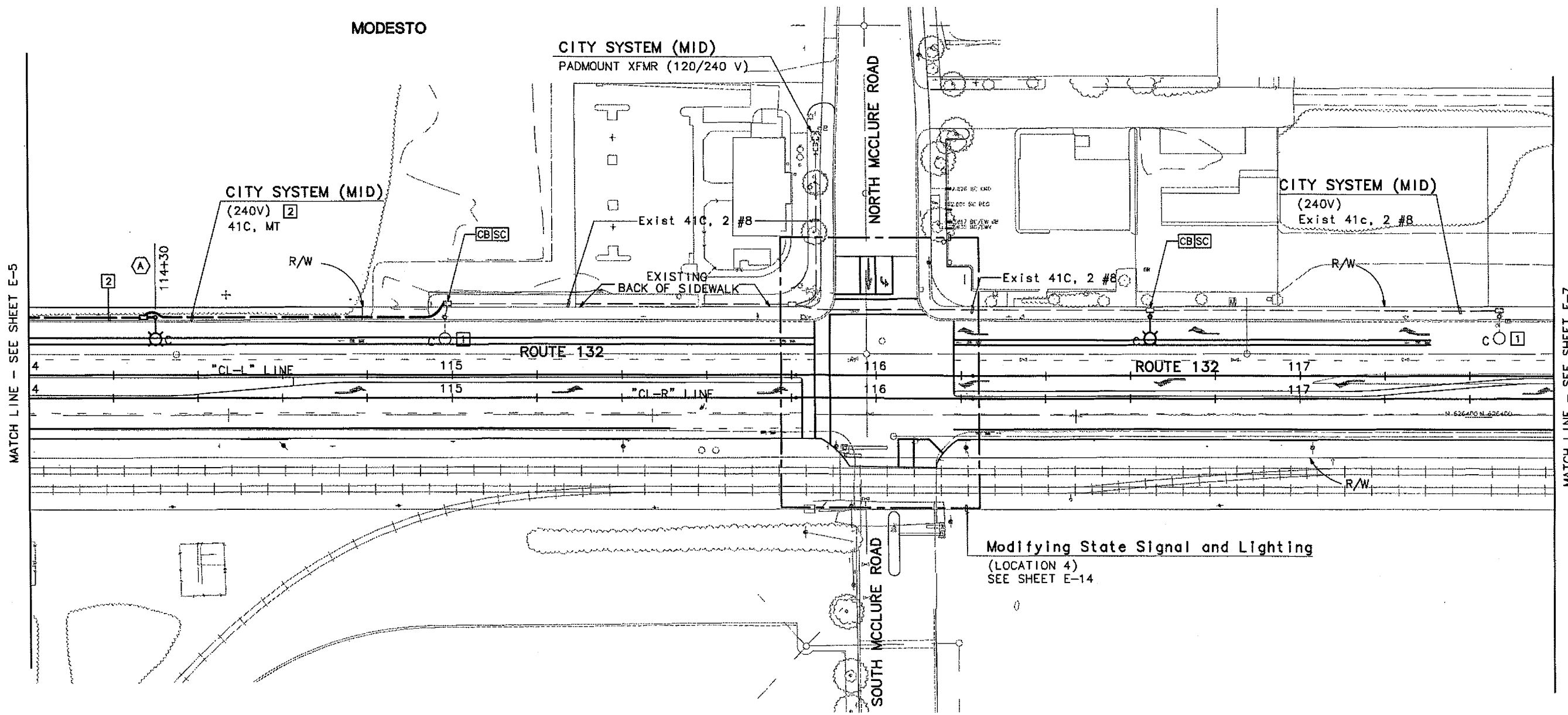
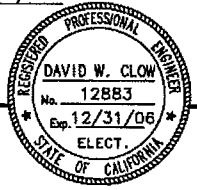
EA 3A1101

DATE PLOTTED => \$DATE \$TIME  
 9-3-04  
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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 IORZUA AKUVA  
 CALCULATED/DESIGNED BY: VM DC  
 CHECKED BY: DC  
 DATE 7/06  
 REVISIONS: BY DATE REVISIONS



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	147	
David W. Clow 7/07/06 PROFESSIONAL ELECTRICAL ENGINEER					
PLANS APPROVAL DATE STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354					
ALLIANCE ENGINEERING CONSULTANTS, INC 4701 PATRICK HENRY DRIVE, BUILDING 10 SANTA CLARA, CALIFORNIA 95054					
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MATCH LINE - SEE SHEET E-5

MATCH LINE - SEE SHEET E-7

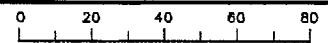
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**JULY 07, 2006**

**LIGHTING (CITY)**  
 SCALE: 1:500

E-6

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CU 06251

EA 3A1101

LAST REVISION  
 9-3-04  
 DATE PLOTTED => \$DATE  
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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 TORZUA AKUVA  
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 CHECKED BY: DC 7/06  
 DATE REVISIED BY: DATE REVISIED



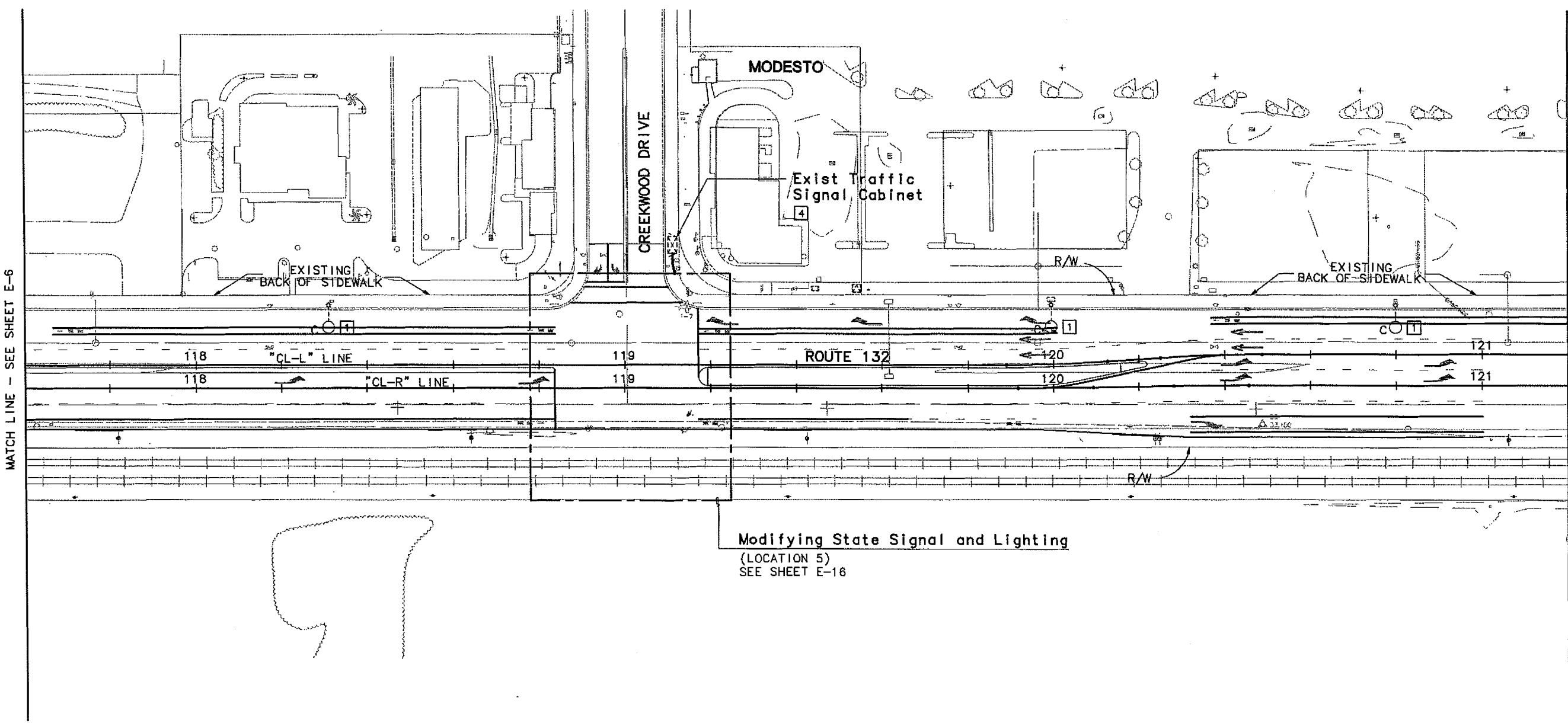
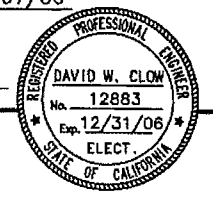
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10	STA	132	28.4/30.7	148	

David W. Clow 7/07/06  
 PROFESSIONAL ELECTRICAL ENGINEER

PLANS APPROVAL DATE  
 STANISLAUS  
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 900 H STREET, SUITE D  
 MODESTO, CA 95354

ALLIANCE ENGINEERING CONSULTANTS, INC  
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 SANTA CLARA, CALIFORNIA 95054

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**Modifying State Signal and Lighting**  
 (LOCATION 5)  
 SEE SHEET E-16

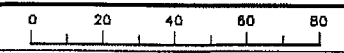
**LIGHTING (CITY)**  
 SCALE: 1:500

**FINAL SUBMITTAL**  
**JULY 07, 2006**

**E-7**

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CU 06251

EA 3A1101

DATE PLOTTED => DATE \$TIME \$TIME  
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DESIGNED BY	ORZUA AKUVA
CHECKED BY	
DATE	7/06
REVISION	
BY	
DATE	7/06
REVISION	
BY	
DATE	7/06
REVISION	
BY	

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	149	

David W. Clow 7/07/06  
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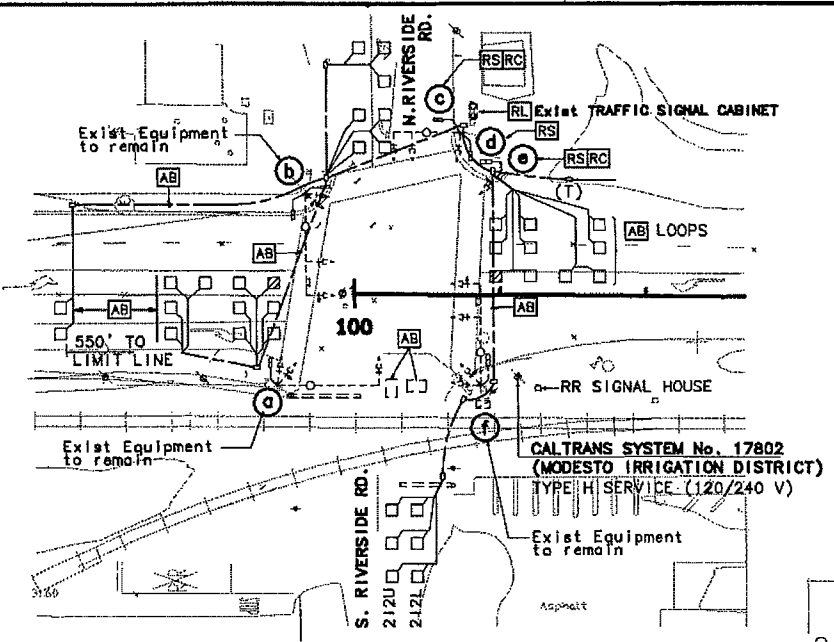
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 900 H STREET, SUITE D  
 MODESTO, CA 95354

ALLIANCE ENGINEERING CONSULTANTS, INC  
 4701 PATRICK HENRY DRIVE, BUILDING 10  
 SANTA CLARA, CALIFORNIA 95054

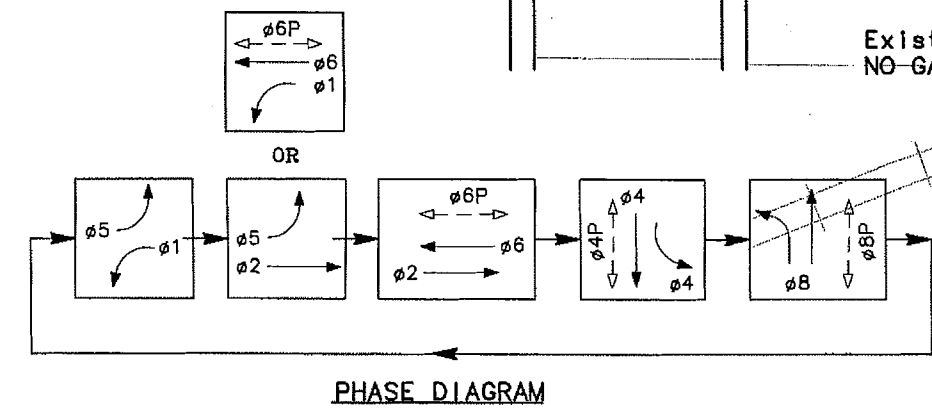
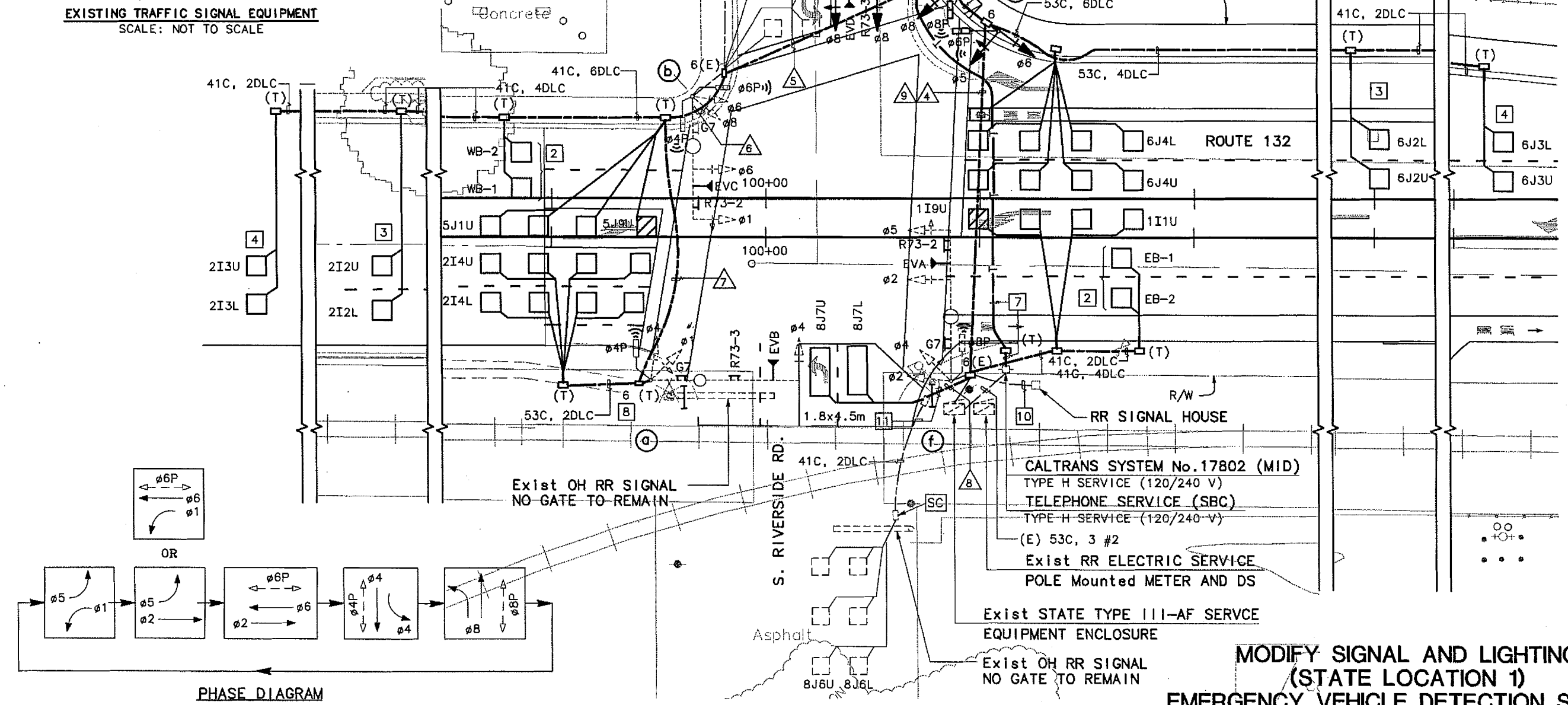
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**NOTE:**  
 FOR NOTES AND SCHEDULES,  
 SEE SHEET E-9.



**EXISTING TRAFFIC SIGNAL EQUIPMENT**  
 SCALE: NOT TO SCALE



**MODIFY SIGNAL AND LIGHTING  
 (STATE LOCATION 1)  
 EMERGENCY VEHICLE DETECTION SYSTEM  
 (Route 132 And Riverside Road)**

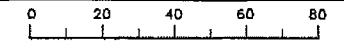
**FINAL SUBMITTAL  
 JULY 07, 2006**

SCALE: 1:200

E-8

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 9-3-04

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	150	

*David W. Clow* 7/07/06  
 PROFESSIONAL ELECTRICAL ENGINEER

PLANS APPROVAL DATE \_\_\_\_\_

STANISLAUS COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

ALLIANCE ENGINEERING CONSULTANTS, INC  
 4701 PATRICK HENRY DRIVE, BUILDING 10  
 SANTA CLARA, CALIFORNIA 95054

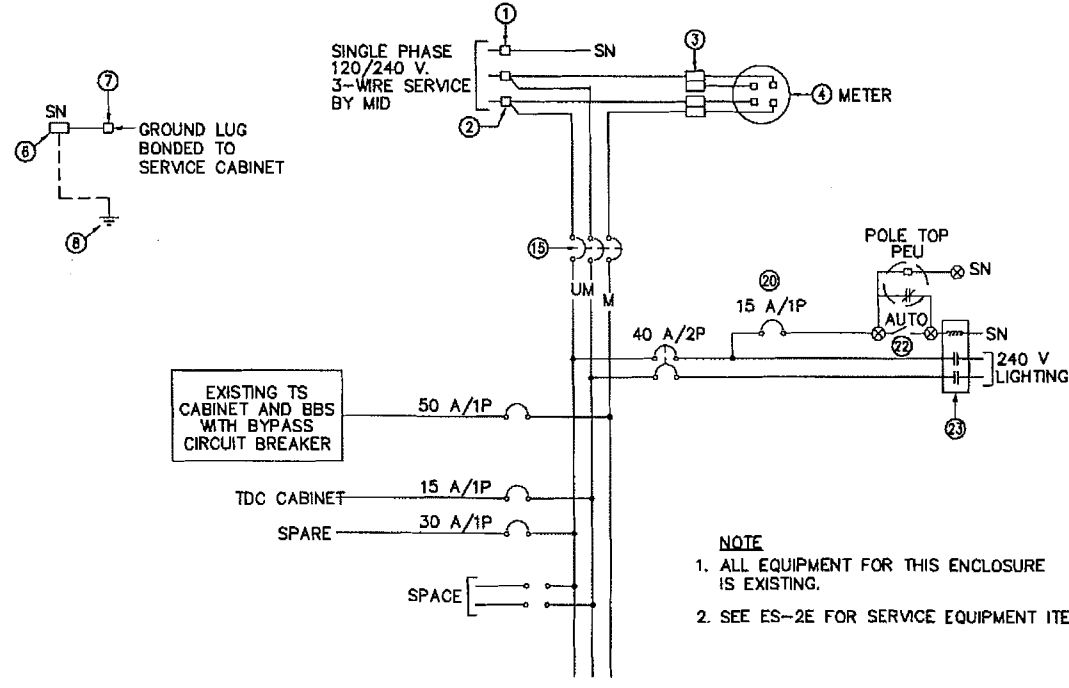
*DAVID W. CLOW*  
 No. 12883  
 Exp. 12/31/06  
 ELECT. ENGINEER  
 STATE OF CALIFORNIA

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CABLE TYPE	POLE	PHASE	CONDUIT RUN NUMBER AND SIZE																		
			1	2	3	4	5	6	7	8	9	10	11								
VEH-PED 12CSC	(a)	1,4,4P	2	2			2	2	2												
	(b)	6,8,4P,6P	2	2	2		2	2													
	(f)	2,4,5,8P	2	2	2	2	2	1													
	(g)	8,8P	1	1	1																
PPB 3CSC	(h)	5,6,6P	1	1	1	1															
	TOTAL		8	8	8	3	2	2	4	3	2	1	1								

AWG	CIRCUIT																				
#5 TS CABINET													2								
#8 LIGHTING				2	2	2	2	2													
#10 TDC			2	2	2																
2#10 RAIL ROAD PRE-EMPTION	2	2	2	2																	
EVA (ø2 & ø5)	1	1	1	1																	
EVB (ø4 & ø7)	1	1				1	1	1													
EVC (ø6 & ø1)	1	1				1															
EVD (ø8 & ø3)	1	1																			
PHASE																					
ø6 BIKE	1	1	1																		
ø1	2	2	2	2																	
ø2	2	2				2	2	2													
ø4	2	2				2															
ø5	2	2				2	2														
ø6	2	2	2																		
ø8	4	4	4	4																4	
ø2INT	2	2				2	2														
ø6INT	2	2	2																		
ø2ADV	2	2				2	2														
ø6ADV	2	2	2																		
WB-1 & 2	2	2				2	2														
EB-1 & 2	2	2	2	2																	
TOTAL	27	27	15	8	12	10	2	4	2												



1 EXISTING TYPE III - AF CABINET  
 120/240 V SERVICE WIRING DIAGRAM  
 SYSTEM No. 10-132-29000. SEE E-8 (SOUTHEAST CORNER OF NORTH RIVERSIDE RD.)  
 METER : CT ID No. 10381320029000

LOC	STANDARD				LUMINAIRE HPS	SIGNAL MOUNTING			PPB PHASE	REMARKS
	TYPE	SMA	LMA	VEHICLE						
				VEHICLE		PED	PHASE			
(a)	26-3-112	13.7	4.6	200 W	mot	sv-2-tb	sp-1-t	ø4	Exist equipment to remain in place. ADD G7 SIGN READING "YOSEMITE BLVD." INSTALL R73-3 (LEFT TURN BUT NO U TURN)	
(b)	26-3-112	12.1	2.4	200 W	mas mas	sv-2-td	sp-2-t	ø6 ø4	Exist equipment to remain in place. [RS] EXIST R73-3 INSTALL R73-2 (LEFT & U TURN) ADD G7 SIGN READING "RIVERSIDE RD."	
(c)	19-3-112	9.1	2.4	200 W	mas mas	sv-1-t	sp-1-t		[RS] Exist Signal equipment [RC] Foundation	
(d)	ped ppb								[RS] Exist Signal equipment	
(e)	1-a					tv-1-t	sp-1-t		[RS] Exist Signal equipment [RC] Foundation	
(f)	26-3-112	13.7	4.6	200 W	mas mas	sv-2-td	sp-1-t	ø8	Exist equipment to remain in place. [RS] Exist R73-3 INSTALL R73-2 (LEFT & U TURN) ADD G7 SIGN READING "RIVERSIDE RD."	
(g)	26-4-161	10.7	3.7	200 W	MAS MAS	SV-1-T	SP-1-T	ø8	ALL NEW SIGNAL EQUIPMENT G7 SIGN READING "YOSEMITE BLVD." INSTALL R73-3 (LEFT TURN BUT NO U TURN)	
(h)	1-A					TV-2-T	SP-1-T	ø8	ALL NEW SIGNAL EQUIPMENT	

- SHEETS E-8 & E-9 NOTES:**
- RELOCATE EXISTING TRAFFIC SIGNAL CABINET TO THIS LOCATION. SEE ES-3C FOR FOUNDATION DETAILS.
  - INSTALL LOOPS 15 m FROM THE LIMIT LINE.
  - INSTALL LOOPS 60 m FROM THE LIMIT LINE.
  - INSTALL LOOPS 105 m FROM THE LIMIT LINE.
  - INSTALL TYPE C TELEPHONE DEMARCATION CABINET. SEE ES-3F.
  - INSTALL A REINFORCED CONCRETE PULLBOX WITH GALVANIZED STEEL CHECKERPLATE, BOLTDOWN COVER MARKED "TRAFFIC SIGNAL". NOMINAL INSIDE DIMENSIONS 609 mm x 914 mm x 609 mm DEEP.
  - INSTALL 53C, MT (CABLE BY AT&T).
  - REPLACE EXISTING PULLBOX WITH A NEW 6(T) PULLBOX.

**MODIFY SIGNAL AND LIGHTING  
 (CONDUCTOR, POLE & EQUIPMENT SCHEDULES)  
 EMERGENCY VEHICLE DETECTION SYSTEM  
 (STATE LOCATION 1)  
 (Route 132 and Riverside Road)**

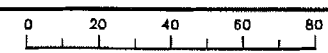
**FINAL SUBMITTAL  
 JULY 07, 2006**

NO SCALE

E-9

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN DIVISION IORZUA AKUVA

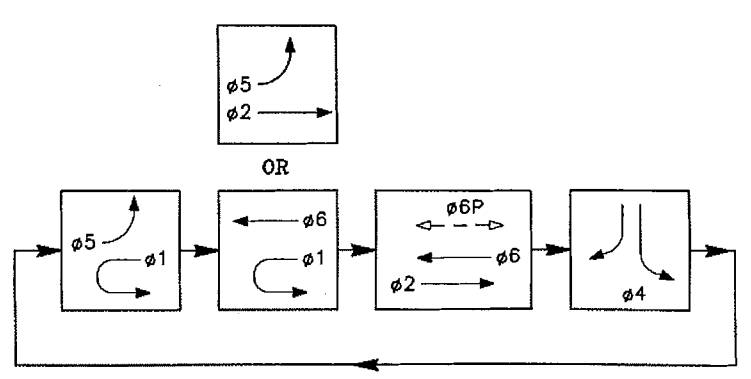
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7/06	7/06	7/06
VM	DC	DC
CALCULATED/DESIGNED BY	CHECKED BY	DATE

DATE	REVISOR	BY
7/06	7/06	7/06
VM	DC	DC
CALCULATED/DESIGNED BY	CHECKED BY	DATE

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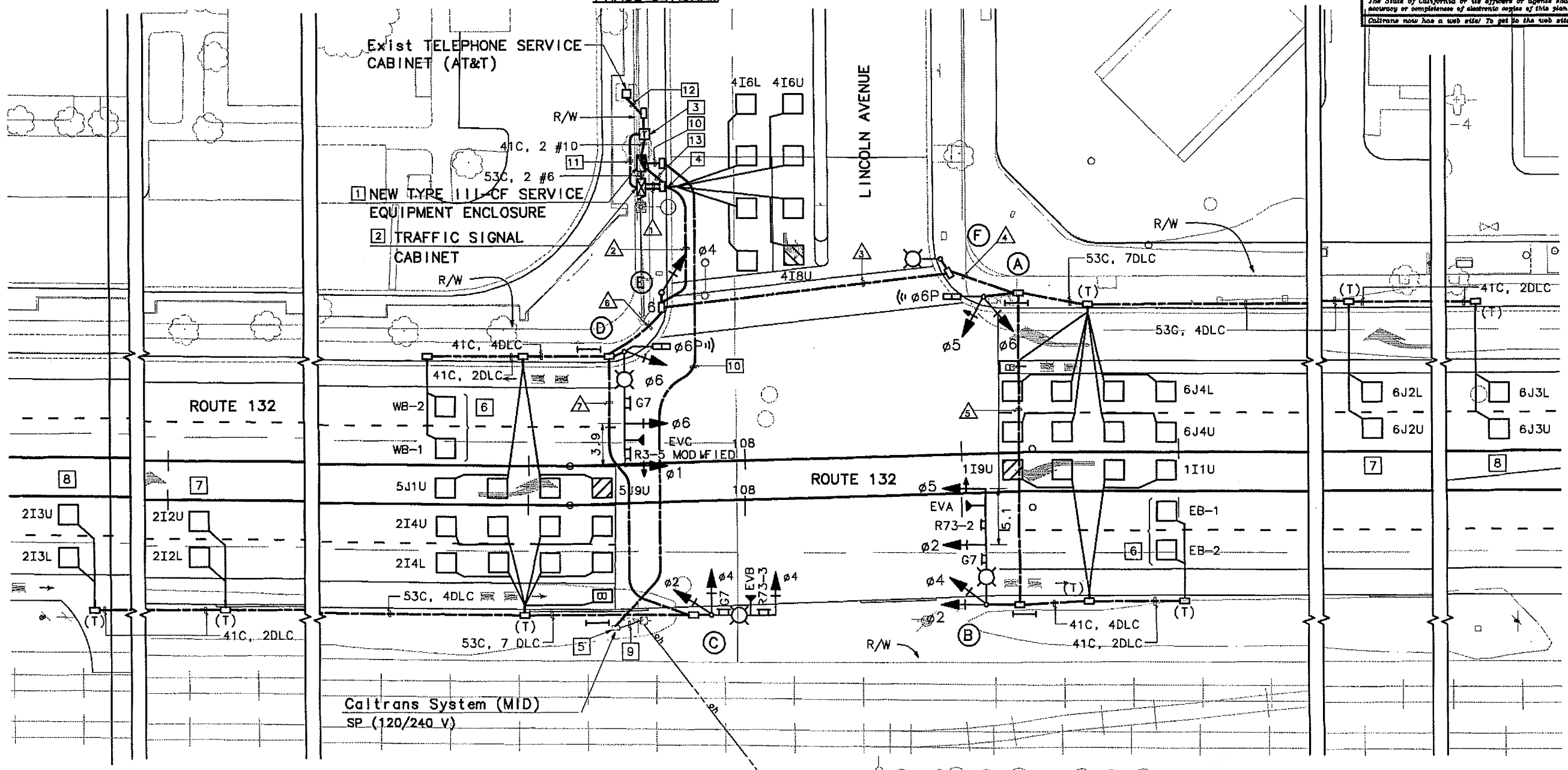
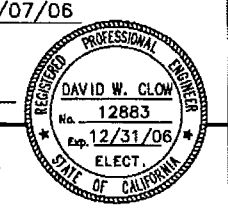
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**NOTE:**  
 FOR NOTES AND SCHEDULES,  
 SEE SHEET E-11.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	151	
David W. Clow 7/07/06 PROFESSIONAL ELECTRICAL ENGINEER					
PLANS APPROVAL DATE STANISLAUS COUNCIL OF GOVERNMENTS 900 H STREET, SUITE D MODESTO, CA 95354					
ALLIANCE ENGINEERING CONSULTANTS, INC 4701 PATRICK HENRY DRIVE, BUILDING 10 SANTA CLARA, CALIFORNIA 95054					
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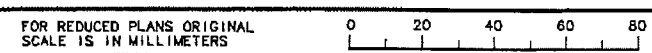
**NEW SIGNAL AND LIGHTING  
 (STATE LOCATION 2)  
 EMERGENCY VEHICLE DETECTION SYSTEM  
 (Route 132 and Lincoln Avenue)**

**FINAL SUBMITTAL  
 JULY 07, 2006**

SCALE: 1:200

E-10

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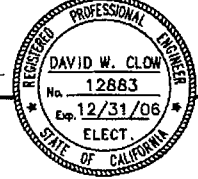
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	152	

David W. Clow 7/07/06  
PROFESSIONAL ELECTRICAL ENGINEER

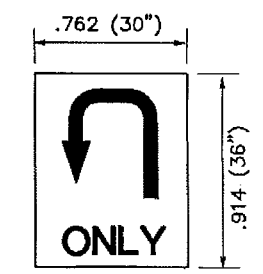


PLANS APPROVAL DATE  
STANISLAUS COUNCIL OF GOVERNMENTS  
900 H STREET, SUITE D  
MODESTO, CA 95354  
ALLIANCE ENGINEERING CONSULTANTS, INC  
4701 PATRICK HENRY DRIVE, BUILDING 10  
SANTA CLARA, CALIFORNIA 95054

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**SHEETS E-10 & E-11 NOTES:**

- 1 INSTALL NEW TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH EQUIPMENT ITEMS AS SHOWN IN THE WIRING DIAGRAM ON THIS SHEET. SEE ES-2F FOR FOUNDATION DETAILS.
- 2 INSTALL STATE FURNISHED MODEL 2070 CONTROLLER WITH BATTERY BACKUP SYSTEM IN TYPE 332 CABINET.
- 3 INSTALL TYPE C TELEPHONE DEMARCATION CABINET. SEE ES-3F.
- 4 INSTALL A REINFORCED CONCRETE PULLBOX WITH GALVANIZED STEEL CHECKERPLATE, BOLTDOWN COVER MARKED "TRAFFIC SIGNAL". NOMINAL INSIDE DIMENSIONS 609 mm x 914 mm x 609 mm DEEP.
- 5 INSTALL 6(E) PULLBOX WITH COVER MARKED "MID".
- 6 INSTALL LOOPS 15 m FROM THE LIMIT LINE.
- 7 INSTALL LOOPS 60 m FROM THE LIMIT LINE.
- 8 INSTALL LOOPS 105 m FROM THE LIMIT LINE.
- 9 INSTALL 53C, MT (CONDUCTORS BY MID).
- 10 INSTALL 53C, 3 #2 (SERVICE 120/240 V)
- 11 INSTALL 41C, (1) TEL CABLE
- 12 INSTALL 53C, MT (CABLE BY AT&T)
- 13 INSTALL 53C, 2 #8 (LIGHTING, 240 V)

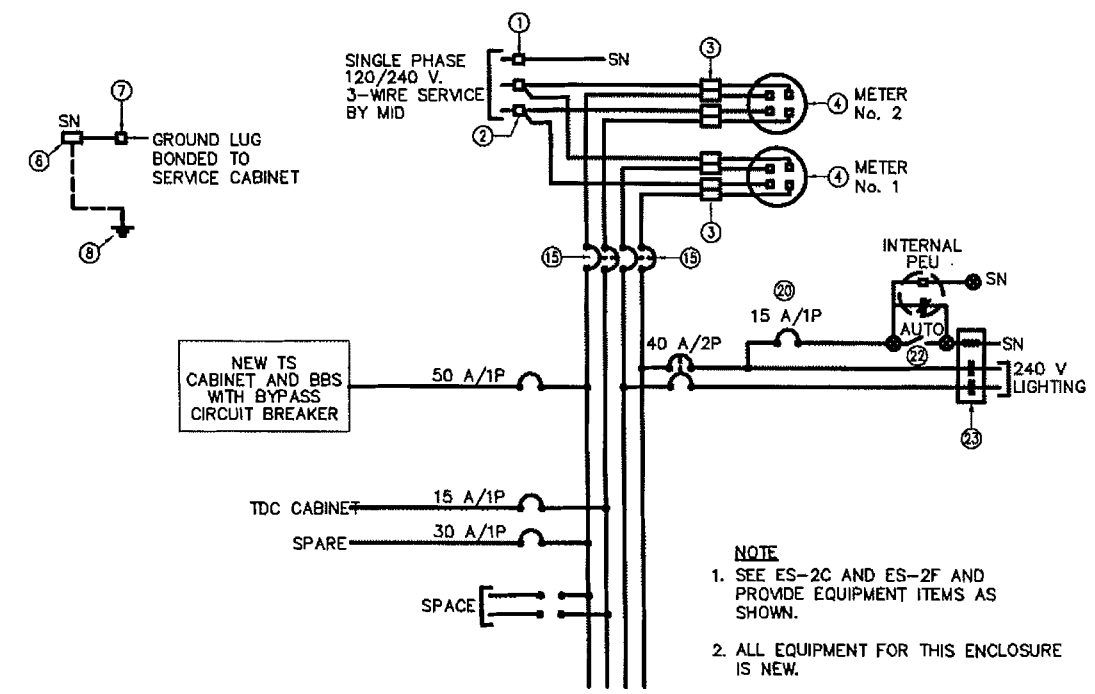


R3-5 MODIFIED

**NEW SIGNAL AND LIGHTING  
(CONDUCTOR, POLE & EQUIPMENT SCHEDULES)  
EMERGENCY VEHICLE DETECTION SYSTEM  
(STATE LOCATION 2)  
(Route 132 and Lincoln Avenue)  
NO SCALE**

**FINAL SUBMITTAL  
JULY 07, 2006**

**E-11**



**NEW TYPE III - CF CABINET  
120/240 V SERVICE WIRING DIAGRAM**

SYSTEM No. 10-132-29301. SEE E-10 (NORTHWEST CORNER OF LINCOLN AVENUE)  
METER No. 1: LIGHTING (CT ID No. 10381320029301L)  
METER No. 2: TRAFFIC SIGNAL (CT ID No. 10381320029301S)

LOC	STANDARD				LUMINAIRE HPS	SIGNAL MOUNTING		PPB PHASE	REMARKS
	TYPE	SMA	LMA	VEHICLE		PED			
(A)	1-A					SV-2-TB	SP-1-T		ALL NEW SIGNAL EQUIPMENT
(B)	24-4-181	10.7	3.7	200 W	MAS MAS	SV-2-TB			ALL NEW SIGNAL EQUIPMENT INSTALL R73-2 SIGN (LEFT & U TURN) G7 SIGN READING "LINCOLN AVE.". F=5.1
(C)	19-2-181	6.1	3.7	200 W	MAT	SV-2-TB			ALL NEW SIGNAL EQUIPMENT INSTALL R73-3 SIGN (LEFT TURN BUT NO U TURN) G7 SIGN READING "YOSEMITE BLVD."
(D)	24-4-181	10.7	3.7	200 W	MAS MAS	SV-1-T	SP-1-T		ALL NEW SIGNAL EQUIPMENT G7 SIGN READING "LINCOLN AVE.". F=3.9
(E)	1-A					TV-1-T		#8	ALL NEW SIGNAL EQUIPMENT INSTALL R3-5 MODIFIED SIGN (U TURN ONLY) SEE DETAIL THIS SHEET
(F)	TYPE 15TS		3.7	200 W				#8	NEW EQUIPMENT

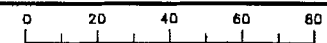
CABLE SCHEDULE			CONDUIT RUN NUMBER AND SIZE							
CABLE TYPE	POLE	PHASE	1	2	3	4	5	6	7	
			2-103	2-103	103	103	78	103	103	
VEH-PED 12CSC	(A)	5,8,6P	1	1	1	1				
	(B)	2,4,5	1	1	1	1				
	(C)	2,4	1	1				1	1	
	(D)	1,8,6P	1	1					1	1
	(E)	4	6	1	1					
	(F)		6	1	1	1				
TOTAL			5	5	2	2	1	2	1	
AWG			CIRCUIT							
#8 LIGHTING				2	2	2	2	2	2	
EVA (#2 & #5)			1	1	1	1	1			
EVC (#6 & #1)			1	1				1		
PHASE										
#2 BIKE			1	1				1	1	
#6 BIKE			1	1	1	1				
#1			2	2	2	2	2			
#2			2	2				2	2	
#4			3							
#5			2	2				2		
#2 INT			2	2				2	2	
#6 INT			2	2	2	2				
#2 ADV			2	2				2	2	
#6 ADV			2	2	2	2				
WB-1 & 2			2	2				2		
EB-1 & 2			2	2	2	2	2			
TOTAL			25	22	11	11	4	11	7	

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 TORZUA AKUYA



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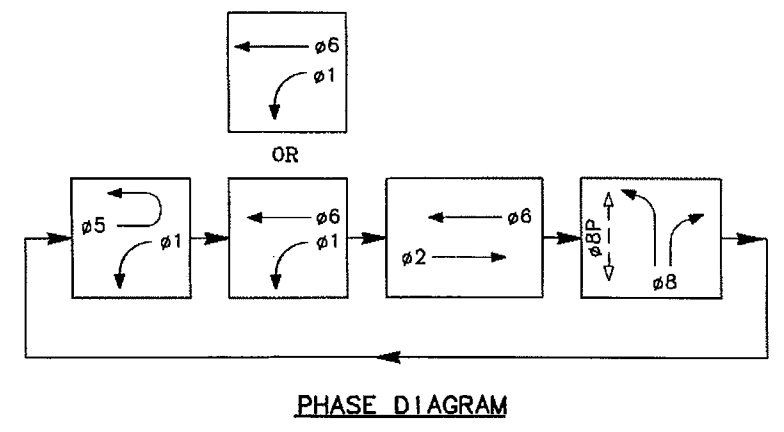
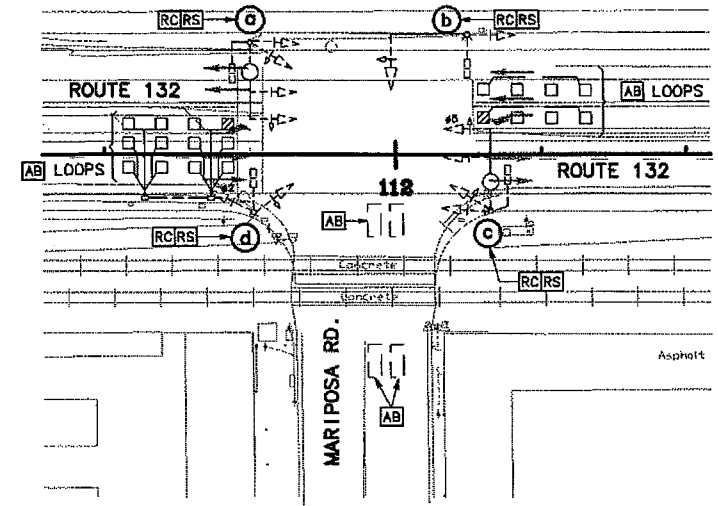
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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



TORZUA AKUVA

CALCULATED/DESIGNED BY	VM	DC	DATE	REVISOR	BY
CHECKED BY	DC	DATE	REVISOR	BY	



**NOTE:**  
 FOR NOTES AND SCHEDULES,  
 SEE SHEET E-13.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	153	

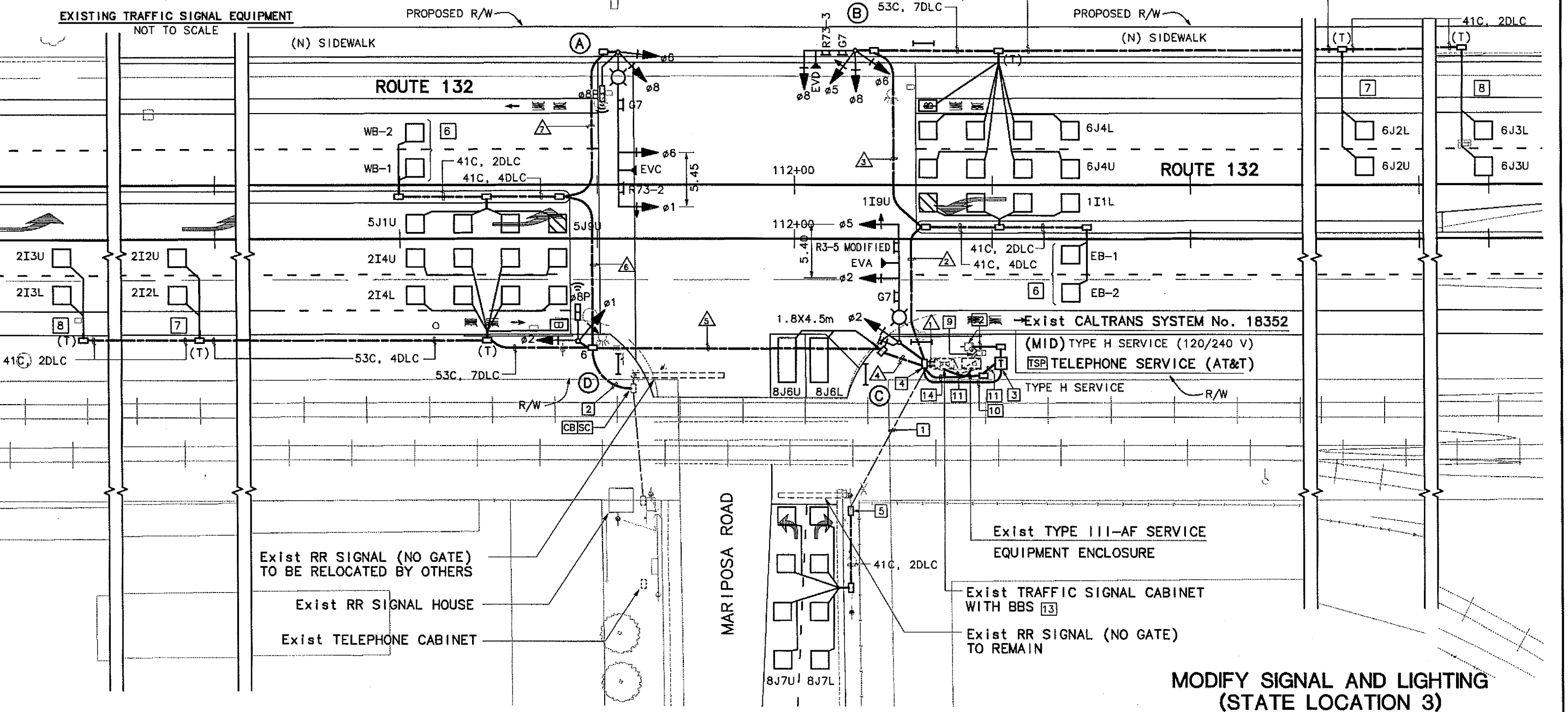
David W. Clow 7/07/06  
 PROFESSIONAL ELECTRICAL ENGINEER

PLANS APPROVAL DATE

STANISLAUS COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

ALLIANCE ENGINEERING CONSULTANTS, INC  
 4701 PATRICK HENRY DRIVE, BUILDING 10  
 SANTA CLARA, CALIFORNIA 95054

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**FINAL SUBMITTAL**  
**JULY 07, 2006**

**MODIFY SIGNAL AND LIGHTING**  
**(STATE LOCATION 3)**  
**EMERGENCY VEHICLE DETECTION SYSTEM**  
**(Route 132 And Mariposa Road)**

SCALE: 1:200 **E-12**

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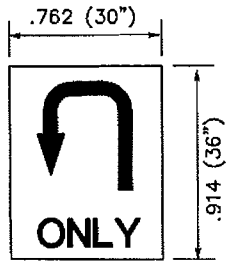
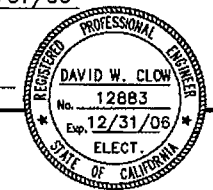
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	154	

David W. Clow 7/07/06  
PROFESSIONAL ELECTRICAL ENGINEER

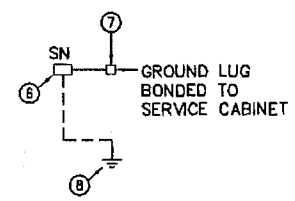
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4701 PATRICK HENRY DRIVE, BUILDING 10  
SANTA CLARA, CALIFORNIA 95054

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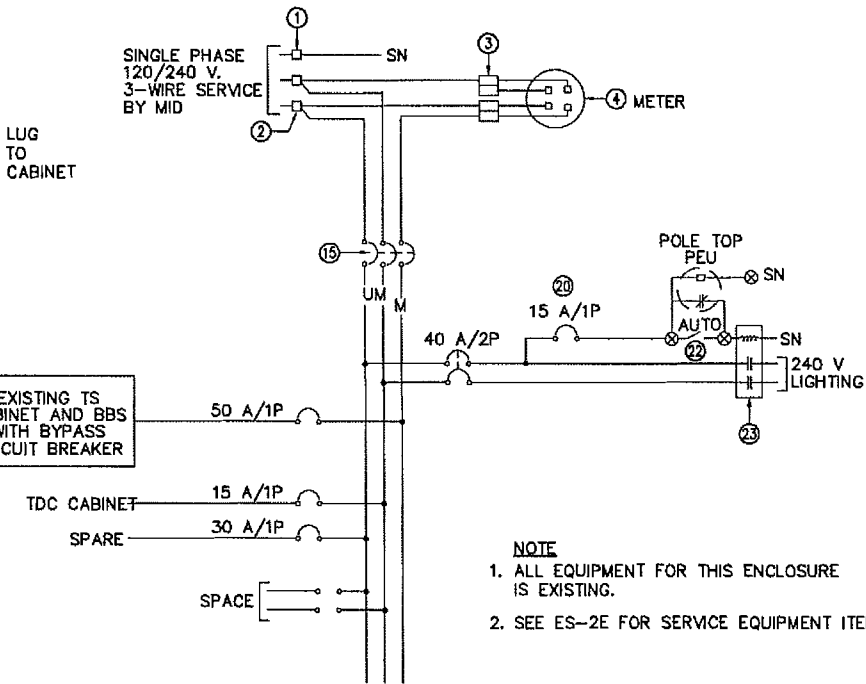


R3-5 MODIFIED



SINGLE PHASE  
120/240 V.  
3-WIRE SERVICE  
BY MID

EXISTING TS  
CABINET AND BBS  
WITH BYPASS  
CIRCUIT BREAKER



NOTE  
1. ALL EQUIPMENT FOR THIS ENCLOSURE IS EXISTING.  
2. SEE ES-2E FOR SERVICE EQUIPMENT ITEMS.

1 EXISTING TYPE III - AF CABINET  
120/240 V SERVICE WIRING DIAGRAM  
SYSTEM No. 10-132-29700. SEE E-12  
(SOUTHEAST CORNER OF MARIPOSA RD.)  
METER : CT ID No. 10381320029700

SHEETS E-12 & E-13 NOTES:

- EXIST 41C. [RC] EXISTING dlc AND INSTALL NEW 2 DLC.
- INSTALL 41C, 2 #10 (RR PRE-EMPTION)
- INSTALL TYPE C TELEPHONE DEMARCATION CABINET. SEE ES-3F.
- [RC] EXIST PULLBOX AND INSTALL A REINFORCED CONCRETE PULLBOX WITH GALVANIZED STEEL CHECKERPLATE, BOLTDOWN COVER MARKED "TRAFFIC SIGNAL". NOMINAL INSIDE DIMENSIONS 609 mm x 914 mm x 609 mm DEEP.
- [RC] EXISTING PULLBOX AND INSTALL A NEW #5 PULLBOX.
- INSTALL LOOPS 15 m FROM THE LIMIT LINE.
- INSTALL LOOPS 60 m FROM THE LIMIT LINE.
- INSTALL LOOPS 105 m FROM THE LIMIT LINE.
- EXIST 53C, 3 #2 (SERVICE 120/240 V)
- INSTALL 41C, 2 #10 (TDC, 120 V)
- INSTALL 41C, (1) TEL CABLE
- INSTALL 53C, MT (CABLE BY AT&T)
- SEE DETAIL 2 ON SHEET E-1 FOR CONDUIT ENTRY INTO EXISTING TRAFFIC SIGNAL CABINET.
- EXIST 41C, 2 #6 (TRAFFIC SIGNAL, 120 V)  
2 #8 LIGHTING, 240 V  
3 #14 (PEU, 120 V)  
ADD 2 #12 (TDC, 120 V)

CABLE SCHEDULE			CONDUIT RUN NUMBER AND SIZE																		
CABLE TYPE	POLE	PHASE	CONDUIT RUN NUMBER AND SIZE																		
			2-103	103	103	103	103	103	103	103	103	103									
VEH-PED 12CSC	(A)	1,6,8,BP	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	(B)	8,5,8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	(C)	2,5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PPB 3CSC	(D)	2,1,8P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	TOTAL		5	2	1	1	3	3	2	2	1	1	1	1	1	1	1	1	1	1	1

AWG	CIRCUIT										
#8 LIGHTING							2	2	2	2	
#10 TDC											
2#10 RAIL ROAD PRE-EMPTION	2						2	2			
EVA (ø2 & ø5)	1										
EVC (ø6 & ø1)	1			1	1	1	1	1			
EVD (ø8 & ø3)	1	1	1								
PHASE											
ø2 BIKE	1			1	1						
ø6 BIKE	1	1	1								
ø1	2	2									
ø2	2			2	2						
ø5	2			2	2	2					
ø6	2	2	2								
ø8	4			2							
ø2INT	2			2	2						
ø6INT	2	2	2								
ø2ADV	2			2	2						
ø6ADV	2	2	2								
WB-1 & 2	2			2	2	2					
EB-1 & 2	2	2									
TOTAL	28	11	7	13	11	4					

POLE AND EQUIPMENT SCHEDULE									
LOC	STANDARD			LUMINAIRE HPS	SIGNAL MOUNTING			PPB PHASE	REMARKS
	TYPE	SMA	LMA		VEHICLE		PED		
(a)	24-4-112	10.6	3.7	200 W	mat	sv-2-tb	sp-1-t	ø4	[RS] Exist Signal equipment [RC] Foundation
(b)	23-4-112	10.6	3.7	200 W	mat	sv-2-tb	sp-1-t	ø8	[RS] Exist Signal equipment [RC] Foundation
(c)	26-4-112	12.2	3.7	200 W	mat	sv-2-tb	sp-1-t	ø8	[RS] Exist Signal equipment [RC] Foundation
(d)	23-4-112					sv-2-tb	sp-1-t	ø4	[RS] Exist Signal equipment [RC] Foundation
(A)	29-5-161	15.2	4.6	200 W	MAS MAS	SV-2-TB	SP-1-T	ø8	ALL NEW SIGNAL EQUIPMENT INSTALL R73-2 SIGN (LEFT & U TURN) G7 SIGN READING "MARIPOSA RD.". F=5.45
(B)	18-4-161	5.2			MAT	SV-3-TB			ALL NEW SIGNAL EQUIPMENT G7 SIGN READING "YOSEMITE BLVD." INSTALL R73-3 SIGN (LEFT TURN BUT NO U TURN)
(C)	26-4-161	12.2	3.7	200 W	MAS MAS	SV-1-T			ALL NEW SIGNAL EQUIPMENT INSTALL R3-5 MODIFIED SIGN (U TURN ONLY) SEE DETAIL ON THIS SHEET G7 SIGN READING "MARIPOSA RD.". F=5.4 INSTALL PEU ON TOP OF POLE
(D)	1-A					TV-2-TB	SP-1-T	ø8	ALL NEW SIGNAL EQUIPMENT

MODIFY SIGNAL AND LIGHTING  
(CONDUCTOR, POLE & EQUIPMENT SCHEDULES)  
EMERGENCY VEHICLE DETECTION SYSTEM  
(STATE LOCATION 3)  
(Route 132 and Mariposa Road)  
NO SCALE

FINAL SUBMITTAL  
JULY 07, 2006

E-13

File: M:\201-04-00\04E13.dwg, Jul 07, 2006 - 1:14pm Scale Factor: PS = 25.4, MS = 25.4 by: yuang  
Xrefs: AEC\_BDR.dwg

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STATE OF CALIFORNIA



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 STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION  
 TORZUA AKUVA

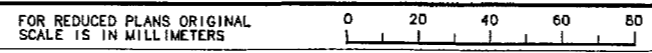
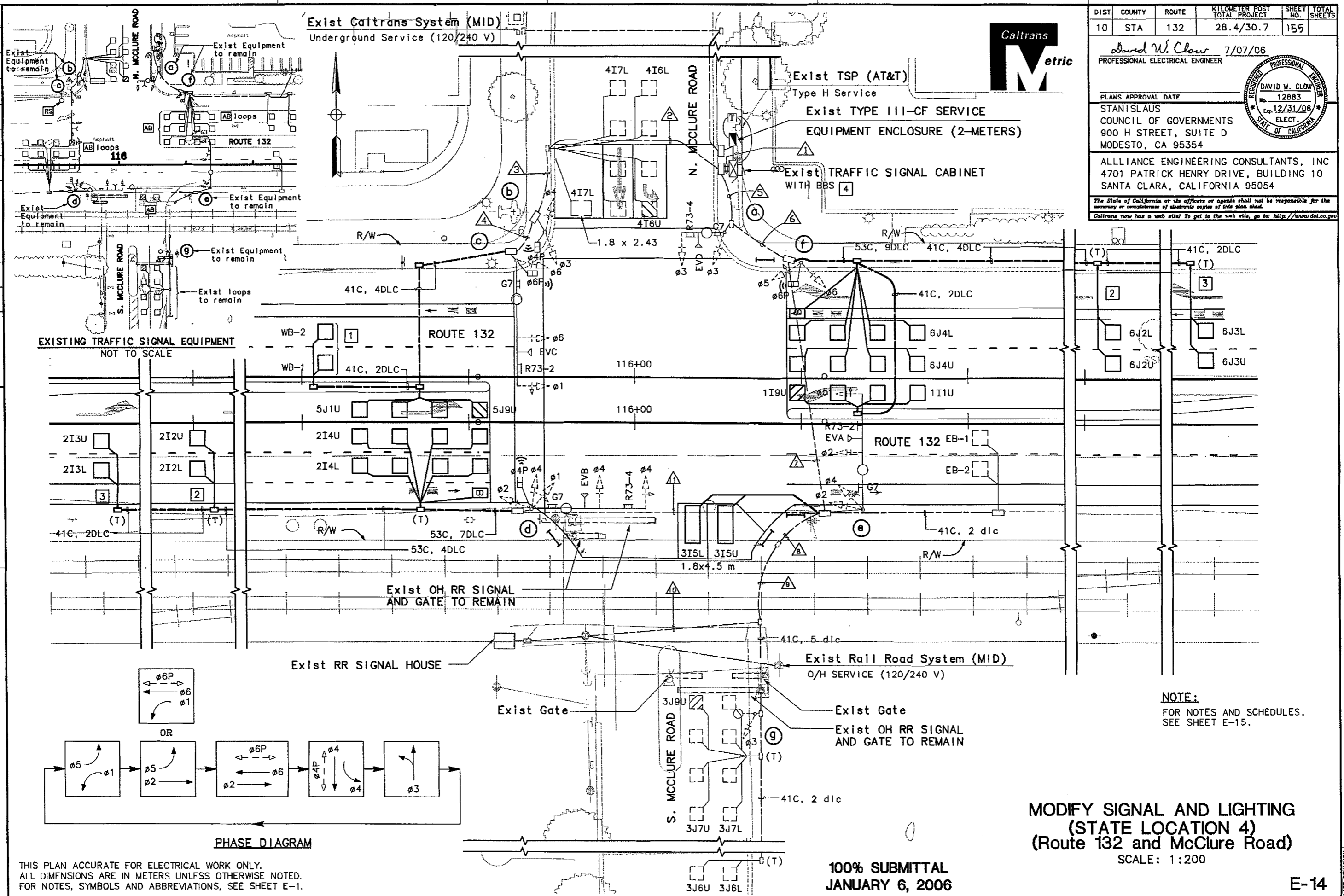
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	155	

David W. Clow 7/07/06  
 PROFESSIONAL ELECTRICAL ENGINEER

PLANS APPROVAL DATE  
 STANISLAUS COUNCIL OF GOVERNMENTS  
 900 H STREET, SUITE D  
 MODESTO, CA 95354

ALLIANCE ENGINEERING CONSULTANTS, INC  
 4701 PATRICK HENRY DRIVE, BUILDING 10  
 SANTA CLARA, CALIFORNIA 95054

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 TORZUA AKUVA  
 Caltrans

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	156	

David W. Clow 7/07/06  
 PROFESSIONAL ELECTRICAL ENGINEER

PLANS APPROVAL DATE  
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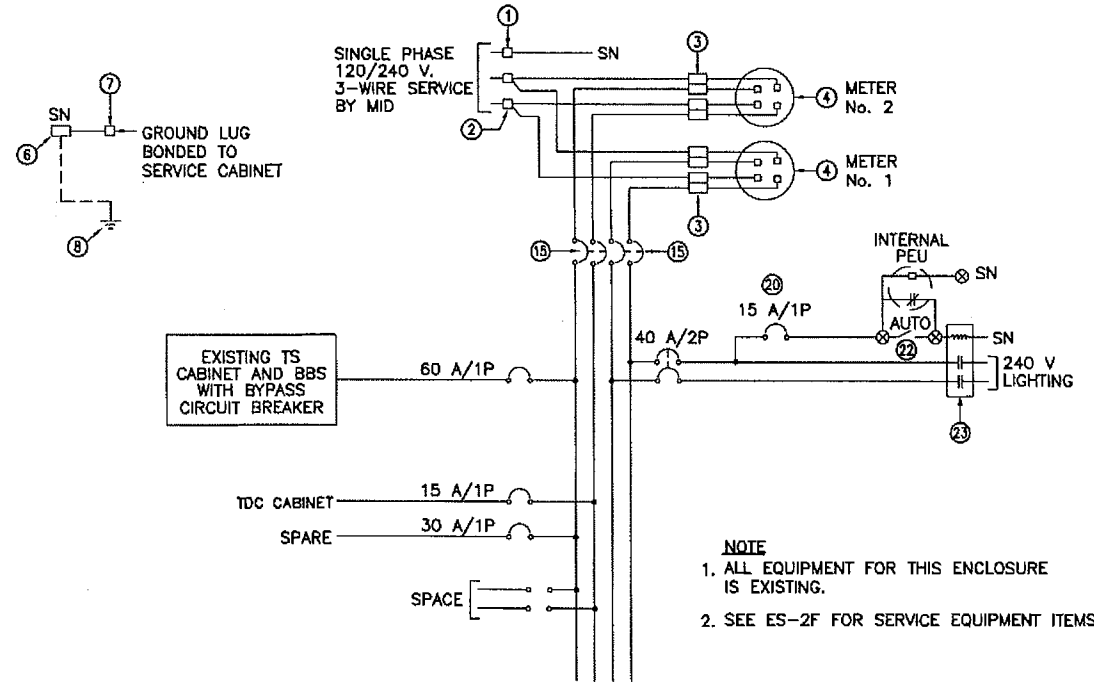
ALLIANCE ENGINEERING CONSULTANTS, INC  
 4701 PATRICK HENRY DRIVE, BUILDING 10  
 SANTA CLARA, CALIFORNIA 95054

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CABLE SCHEDULE			CONDUIT RUN NUMBER AND SIZE											
CABLE TYPE	POLE	PHASE	1	2	3	4	5	6	7	8	9	10	11	
			103	78	78	78	91	91	103	103	83	53	78	
VEH-PED 12CSC	(a)	3	1	1	1	1	1	1	1	1	1	1	1	1
	(b)	3,4,4P	1	1	1	1	1	1	1	1	1	1	1	1
	(c)	1,6,6P	1	1	1	1	1	1	1	1	1	1	1	1
	(d)	1,2,4,4P	2	1	1	1	2	2	2	1	1	1	1	2
	(e)	2,4,5	1	1	1	1	1	1	1	1	1	1	1	1
	(f)	5,6,6P	1	1	1	1	1	1	1	1	1	1	1	1
PPB 3CSC	(g)	3	1	1	1	1	1	1	1	1	1	1	1	
TOTAL			8	4	2	2	2	1	6	5	4	1	1	2

AWG	CIRCUIT												
#8 LIGHTING		2	2	2	2	2	2	2	2	2	2	2	2
2#10 RAIL ROAD PRE-EMPTION	2					2	2	2	2	2	2	2	
eva (ø2 & ø5)	1				1	1	1						
evb (ø4 & ø7)	1				1	1	1						1
evc (ø6 & ø1)	1	1	1	1									
evd (ø8 & ø1)	1				1								
PHASE													
ø2 BIKE	1				1	1	1						1
ø6 BIKE	1				1	1							
ø1	2				2	2							
ø2	2				2	2	2						2
ø3	5				5	5	5	3	3				
ø4	3	3											
ø5	2	2	2	2									
ø6	2				2	2							
ø2INT	2				2	2	2						2
ø6INT	2				2	2							
ø2ADV	2				2	2	2						2
ø3ADV	2				2	2	2	2	2				
ø6ADV	2				2	2							
WB-1 & 2	2	2	2	2									
EB-1 & 2	2				2	2	2						
TOTAL	32	7	4	4	25	25	16	5	5				7



1 EXISTING TYPE III - CF CABINET  
 120/240 V SERVICE WIRING DIAGRAM  
 SYSTEM No. 10-132-29991 SEE E-14  
 (NORTHEAST CORNER OF MCCLURE RD.)  
 METER No. 1: LIGHTING (CT ID No. 10381320029991L)  
 METER No. 2: TRAFFIC SIGNAL (CT ID No. 10381320029991S)

POLE AND EQUIPMENT SCHEDULE									
LOC	STANDARD			LUMINAIRE HPS	SIGNAL MOUNTING		PPB PHASE	REMARKS	
	TYPE	SMA	LMA		VEHICLE	PED			
(a)	17-3-129	4.6	3.7	200 W	mas	sv-1-t	ø6	Exist equipment to remain in place.	
(b)	1-a					tv-2-t	sp-1-t	ø6	Exist equipment to remain in place.
(c)	29-5-129	15.2	4.6	200 W	mas mas	sv-1-t	sp-1-t	ø4	Exist equipment to remain in place.
(d)	26-4-129	13.7	3.7	200 W	mas mas	sv-3-ta	sp-1-t	ø4	Exist equipment to remain in place.
(e)	26-4-129	13.7	3.7	200 W	mas mas	sv-2-ta			Exist equipment to remain in place.
(f)	1-a					tv-2-t	sp-1-t		Exist equipment to remain in place.
(g)	type 15		3.7	200 W		sv-1-ta			Exist equipment to remain in place.

- SHEETS E-14 & E-15 NOTES:**
- INSTALL LOOPS 15 m FROM THE LIMIT LINE.
  - INSTALL LOOPS 60 m FROM THE LIMIT LINE.
  - INSTALL LOOPS 105 m FROM THE LIMIT LINE.
  - SEE DETAIL 2 ON SHEET E-1 FOR CONDUIT ENTRY INTO EXISTING TRAFFIC SIGNAL CABINET.

MODIFY SIGNAL AND LIGHTING  
 (CONDUCTOR, POLE & EQUIPMENT SCHEDULES)  
 (STATE LOCATION 4)  
 (Route 132 and McClure Road)  
 NO SCALE

FINAL SUBMITTAL  
 JULY 07, 2006

E-15

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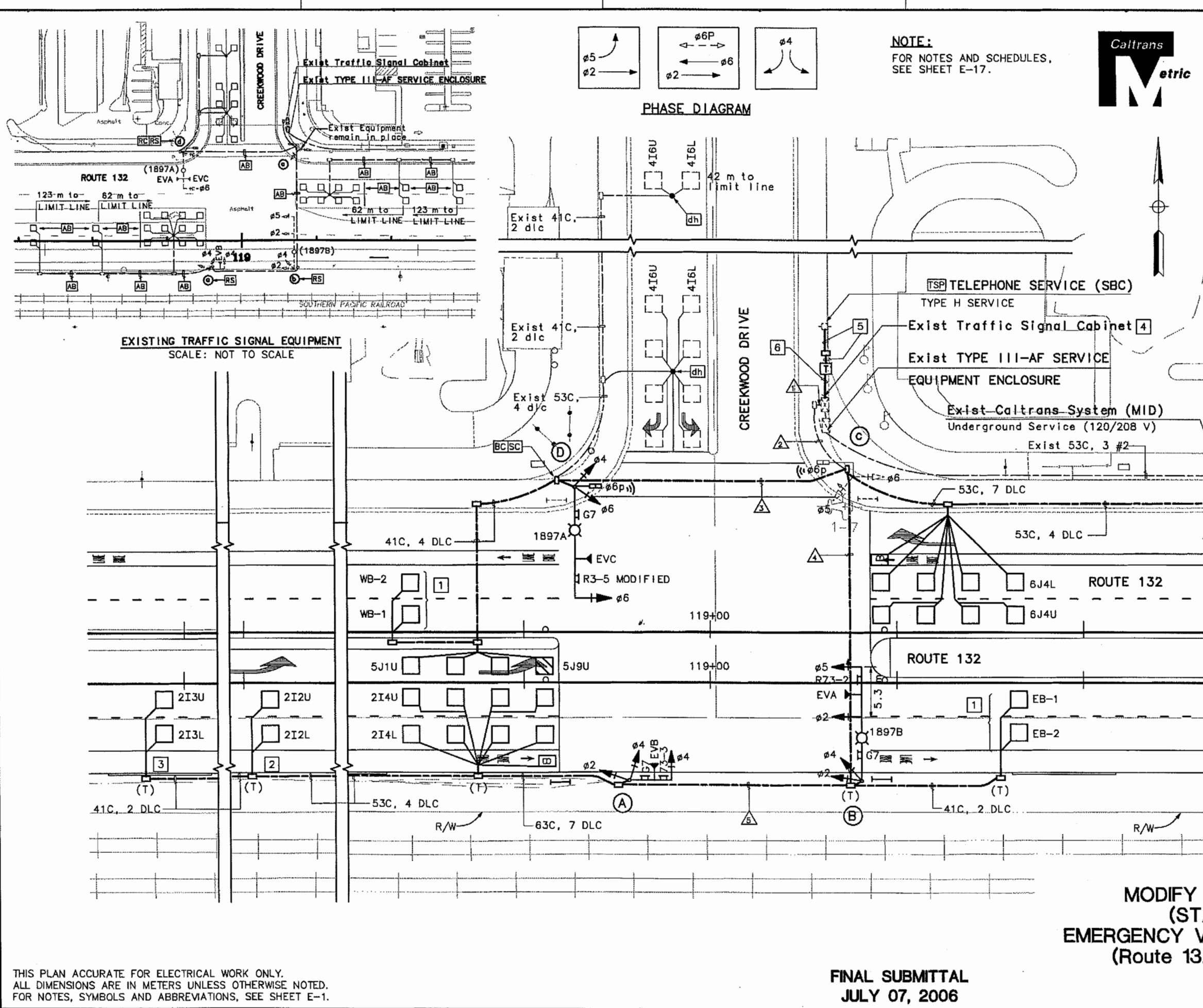
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EA 3A1101

LAST REVISION 9-3-04 DATE PLOTTED => \$DATE \$TIME

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 CALCULATED/DESIGNED BY: VM DC  
 CHECKED BY: DC  
 DATE: 7/06  
 REVISIONS: BY DATE REVISIONS



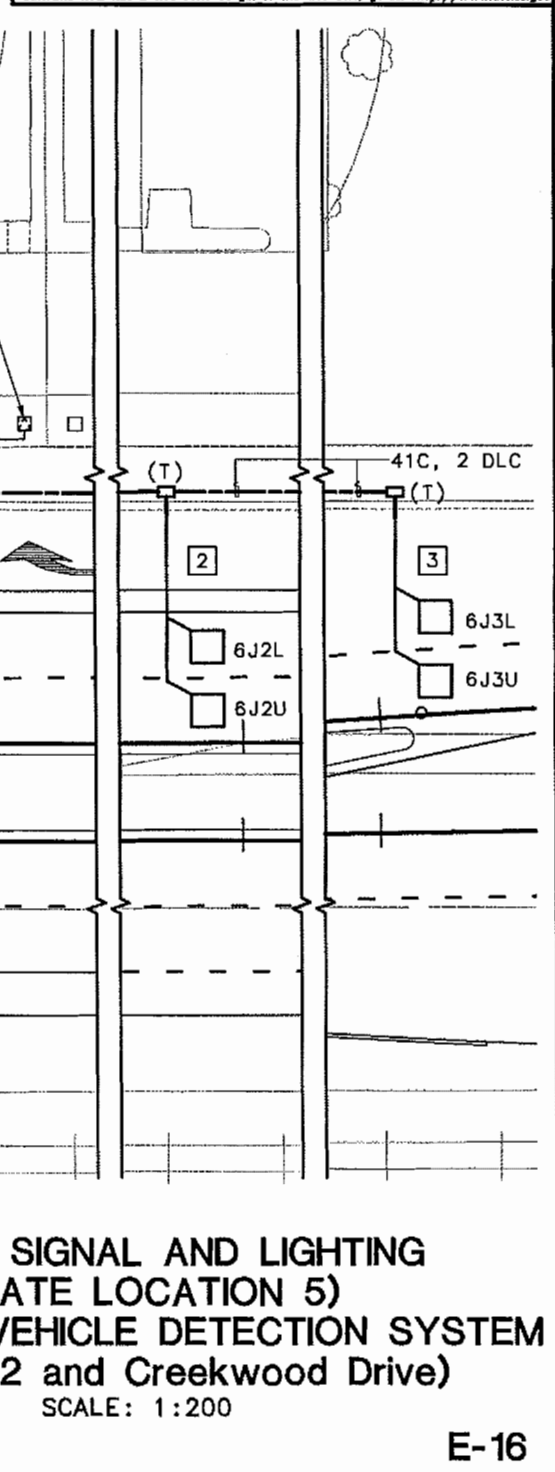
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	157	

David W. Clow 7/07/06  
 PROFESSIONAL ELECTRICAL ENGINEER

PLANS APPROVAL DATE: \_\_\_\_\_  
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 900 H STREET, SUITE D  
 MODESTO, CA 95354

ALLIANCE ENGINEERING CONSULTANTS, INC  
 4701 PATRICK HENRY DRIVE, BUILDING 10  
 SANTA CLARA, CALIFORNIA 95054

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**MODIFY SIGNAL AND LIGHTING  
 (STATE LOCATION 5)  
 EMERGENCY VEHICLE DETECTION SYSTEM  
 (Route 132 and Creekwood Drive)**  
 SCALE: 1:200

**FINAL SUBMITTAL  
 JULY 07, 2006**

**E-16**

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 FOR NOTES, SYMBOLS AND ABBREVIATIONS, SEE SHEET E-1.

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USERNAME => \$USER  
 DGN FILE => \$REQUEST

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DATE PLOTTED => \$DATE  
 9-3-04



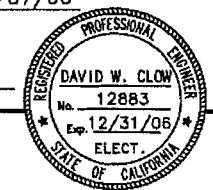
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	STA	132	28.4/30.7	158	

David W. Clow 7/07/06  
 PROFESSIONAL ELECTRICAL ENGINEER

PLANS APPROVAL DATE  
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 MODESTO, CA 95354

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 SANTA CLARA, CALIFORNIA 95054

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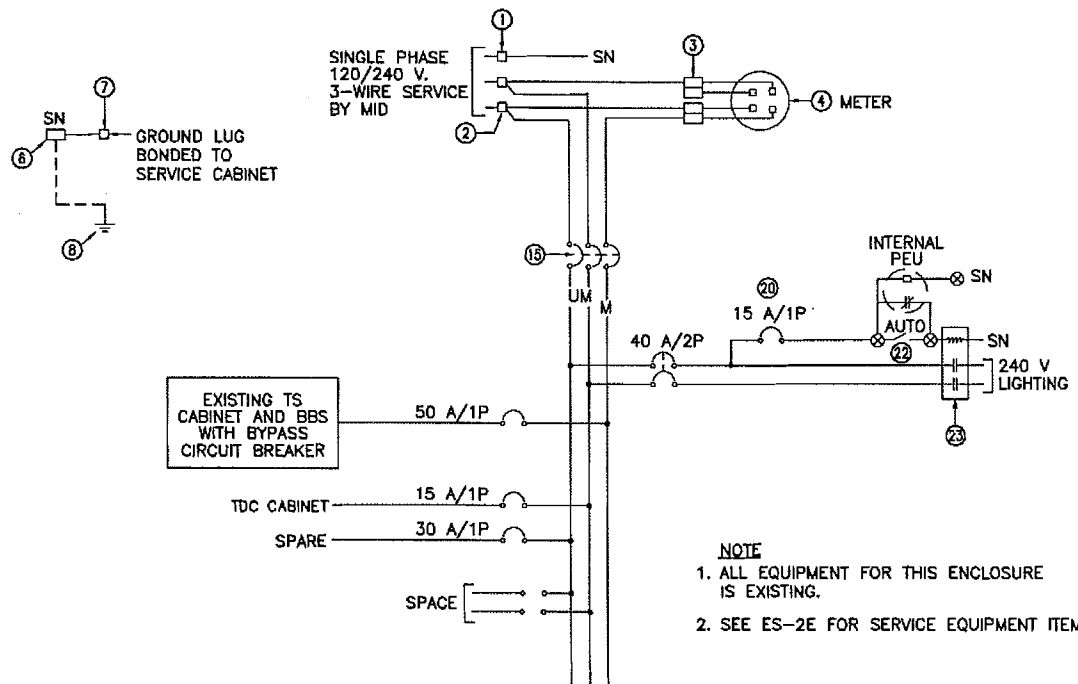


**SHEETS E-16 & E-17 NOTES:**

- 1 INSTALL LOOPS 15 m FROM THE LIMIT LINE.
- 2 INSTALL LOOPS 60 m FROM THE LIMIT LINE.
- 3 INSTALL LOOPS 105 m FROM THE LIMIT LINE.
- 4 SEE DETAIL 2 ON SHEET E-1 FOR CONDUIT ENTRY INTO EXISTING TRAFFIC SIGNAL CABINET.
- 5 INSTALL 53C, MT. (CABLE BY AT&T)
- 6 INSTALL 41C, MT. (TEL CABLE)

CABLE SCHEDULE			CONDUIT RUN NUMBER AND SIZE																					
CABLE TYPE	POLE	PHASE	1		2		3		4		5		6		7		8		9		10		11	
			2-103	2-103	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
VEH-PED 12CSC	(A)	2,4	1	1																				
	(B)	2,4,5	2	2																				
	(C)	5,6	1	1																				
	(D)	6	1	1																				
TOTAL			5	5	2	2	3	1																

AWG	CIRCUIT	
#8 LIGHTING	2	2
2#10 RAIL ROAD PRE-EMPTION		
EVA (#2 & #5)	1	1
EVB (#4 & #7)	1	1
EVC (#6 & #1)	1	1
PHASE		
#2 BIKE	1	1
#6 BIKE	1	1
Ø2	2	2
Ø4	2	2
Ø5	2	2
Ø6	2	2
Ø2INT	2	2
Ø6INT	2	2
Ø2ADV	2	2
Ø4ADV	2	2
Ø6ADV	2	2
WB-1 & 2	2	2
EB-1 & 2	2	2
TOTAL	24	24



EXISTING TS CABINET AND BBS WITH BYPASS CIRCUIT BREAKER

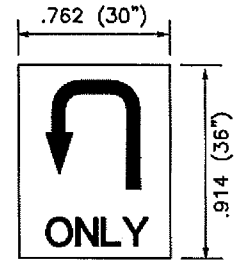
TDC CABINET  
SPARE

SPACE

- NOTE**
1. ALL EQUIPMENT FOR THIS ENCLOSURE IS EXISTING.
  2. SEE ES-2E FOR SERVICE EQUIPMENT ITEMS.

1 EXISTING TYPE III - AF CABINET  
120/208 V SERVICE WIRING DIAGRAM  
SYSTEM No. 10-132-30401 SEE E-16  
(NORTHEAST CORNER OF CREEKWOOD DRIVE)  
(CT ID No. 10381320030401)

POLE AND EQUIPMENT SCHEDULE									
LOC	STANDARD			LUMINAIRE HPS	SIGNAL MOUNTING			PPB PHASE	REMARKS
	TYPE	SMA	LMA		VEHICLE	PED			
(a)	16-2-70	4.6			mas	sv-2-t			RS Exist Signal equipment RC Foundation
(b)	26-4-70	13.7	4.6	200 W	mas mas	sv-2-t			RS Exist Signal equipment RC Foundation
(c)	1-A					tv-2-t	sp-1-t	Ø6	Exist equipment to remain in place.
(d)	24-4-70	10.6	4.6	200 W	mas	sv-1-t	sp-1-t	Ø6	RS Exist Signal equipment RC Foundation
(A)	17-3-161	4.8			MAS	SV-2-T			ALL NEW SIGNAL G7 SIGN READING "YOSEMITE BLVD." R73-3 SIGN (LEFT TURN BUT NO U TURN)
(B)	26-3-161	12.2	4.8	200 W	MAS MAS	SV-2-T			ALL NEW SIGNAL EQUIPMENT G7 SIGN READING "CREEKWOOD DR." R73-2 SIGN (LEFT & U TURN)
(D)	26-3-161	12.2	4.6	200 W	MAS	SV-2-T	SP-1-T	Ø6	ALL NEW SIGNAL EQUIPMENT G7 SIGN READING "CREEKWOOD DR." F=5.3 R3-5 MODIFIED SIGN (U TURN ONLY) SEE DETAIL ON THIS SHEET



R3-5 MODIFIED

**MODIFY SIGNAL AND LIGHTING  
(CONDUCTOR, POLE & EQUIPMENT SCHEDULES)  
EMERGENCY VEHICLE DETECTION SYSTEM  
(STATE LOCATION 5)  
(Route 132 and Creekwood Drive)**

**FINAL SUBMITTAL  
JULY 07, 2006**

NO SCALE

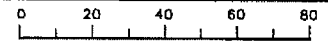
E-17

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