COUNTY OF TEHAMA

DEPARTMENT OF PUBLIC WORKS

CONSTRUCTION PLANS FOR

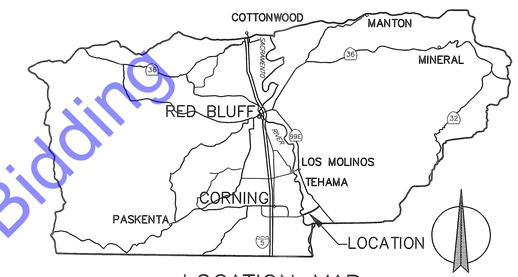
SOUTH AVENUE SHOULDER WIDENING

FEDERAL HIGHWAY SAFETY IMPROVEMENT PROGRAM
PROJECT No. 5908(089)
COUNTY PROJECT No. 14-235911

TO BE SUPPLEMENTED BY STATE OF CALIFORNIA 2010 STANDARD PLANS AND SPECIFICATIONS

For Reference Only- Not for the Purpose of Bidding

TEHAMA COUNTY



LOCATION MAP
No Scale

LEGEND

UP*	UTILITY POLE
FL	FLOWLINE
CL	CENTERLINE
D/W	DRIVEWAY
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
P.I.	POINT OF INTERSECTION
B.C.	BEGIN CURVE
E.C.	END CURVE
B.V.C.	BEGIN VERTICAL CURVE
E.V.C.	END VERTICAL CURVE
ETW	EDGE TRAVELED WAY
SHO	SHOULDER – GRAVEL
EL	ELEVATION
EP	EDGE OF PAVEMENT
R/W	RIGHT OF WAY
EX	EXISTING
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
⊙	SURVEY MONUMENT
⚠	CONTROL POINT

INDEX OF SHEETS

PAGE	SHEET	DESCRIPTION
1	T-1	TITLE SHEET
2	X-1	TYPICAL CROSS SECTION
3	L-1	LAYOUT
4	L-2	LAYOUT
5	L-3	LAYOUT
6	D-1	BRIDGE GUARD RAILING DETAILS
7	D-2	BRIDGE GUARD RAILING DETAILS
8	STP-1	STRIPING
9	STP-2	STRIPING
10	STP-3	STRIPING

LOCATION MAP
PROJECT LENGTH = 3.6 MILES

TEHAMA COUNTY BOARD OF SUPERVISORS

DISTRICT 1	STEVE CHAMBLIN
DISTRICT 2	SANDRA BRUCE
DISTRICT 3	DENNIS GARTON
DISTRICT 4	BOB WILLIAMS
DISTRICT 5	BURT BUNDY

APPROVED BY:

CHAIRPERSON BOARD OF SUPERVISORS

BOARD OF SUPERVISORS SEAL

TEHAMA COUNTY DEPARTMENT OF PUBLIC WORKS

GARY ANTONE
DIRECTOR OF PUBLIC WORKS

REGISTERED PROFESSIONAL ENGINEER GARY B. ANTONE C 36077 CIVIL STATE OF CALIFORNIA

No.	REVISION:	BY:	DATE:

REGISTERED PROFESSIONAL ENGINEER KEITH S. ROSSER C 78339 CIVIL STATE OF CALIFORNIA

TEHAMA COUNTY PUBLIC WORKS
9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

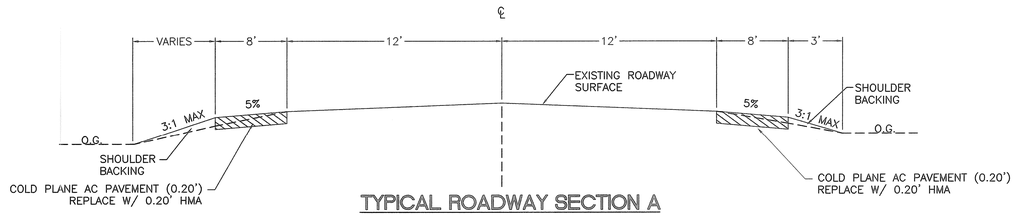
SCALE	
HORIZ:	N/A
VERT:	N/A
DRAWN BY:	SRA/TAC
DATE:	4/29/2014
CHECKED BY:	KSR
DATE:	4-18-14

SOUTH AVENUE SHOULDER WIDENING TITLE SHEET

PROJECT NO.: 235911

SHEET NO.	PAGE NO.
T-1	01/10

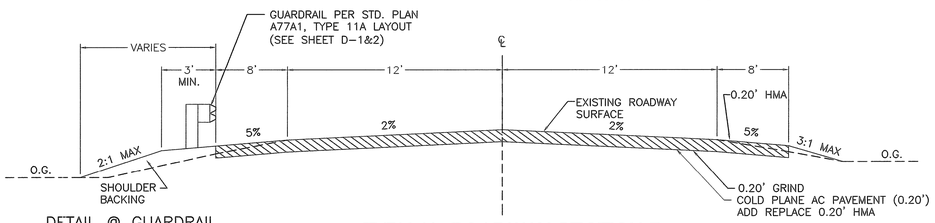
P:\235911 South Avenue Shoulder Widening\DWG\3D-DATA_235991\PROPOSED\Prop-Shoulders-235911.dwg8/14/2014
Prop-Shoulders-235911.dwg



TYPICAL ROADWAY SECTION A

N.T.S.

STA. 10+60 TO 23+97
STA. 37+81 TO 47+66
STA. 49+69 TO 55+20
STA. 58+80 TO 190+91.20

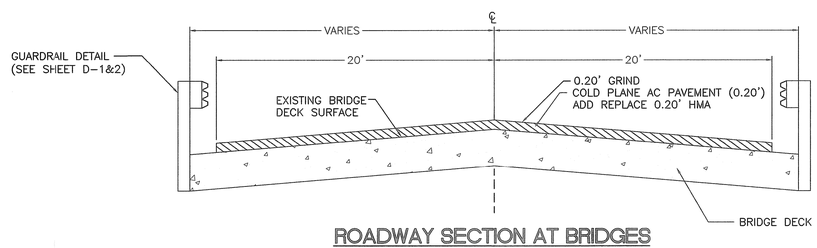


DETAIL @ GUARDRAIL

TYPICAL ROADWAY SECTION B

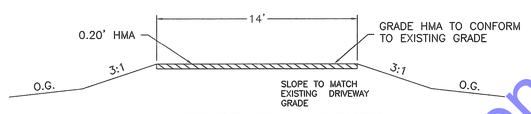
N.T.S. AT BRIDGE APPROACH

STA. 23+97 TO 37+81
STA. 47+66 TO 49+69
STA. 55+20 TO 58+80



ROADWAY SECTION AT BRIDGES

N.T.S.



PRIVATE DRIVEWAY SECTION

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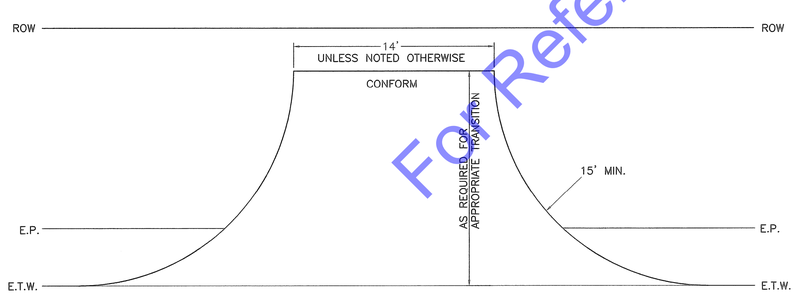

PRIVATE DRIVEWAY PLAN

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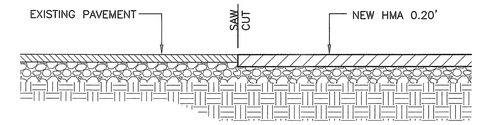
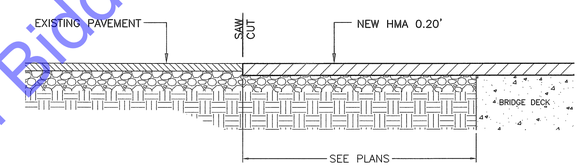


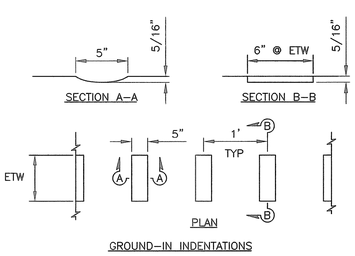
SAW CUT DETAIL

N.T.S.

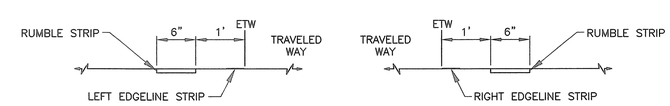


TYPICAL BRIDGE CONCRETE AND A.C.

N.T.S.



GROUND-IN INDENTATIONS



RUMBLE STRIP PLACEMENT LEFT OF DIRECTION OF TRAVEL

RUMBLE STRIP PLACEMENT RIGHT OF DIRECTION OF TRAVEL

NOTES:

1. Define limits of Rumble Strip by station.
2. A 1' offset from the edge of traveled way to the edge of the rumble strip shall be used for rumble strip placement right of the direction of travel.

RUMBLE STRIPS DETAIL

No.	REVISION:	BY:	DATE:

REGISTERED PROFESSIONAL ENGINEER KEVIN S. HOSSER C 78389 CIVIL STATE OF CALIFORNIA

TEHAMA COUNTY PUBLIC WORKS
9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

COUNTY OF TEHAMA

SCALE	
HORIZ:	1:50
VERT:	1:50
DRAWN BY:	SRA/TAC
DATE:	4/29/2014
CHECKED BY:	KSR
DATE:	4-18-14

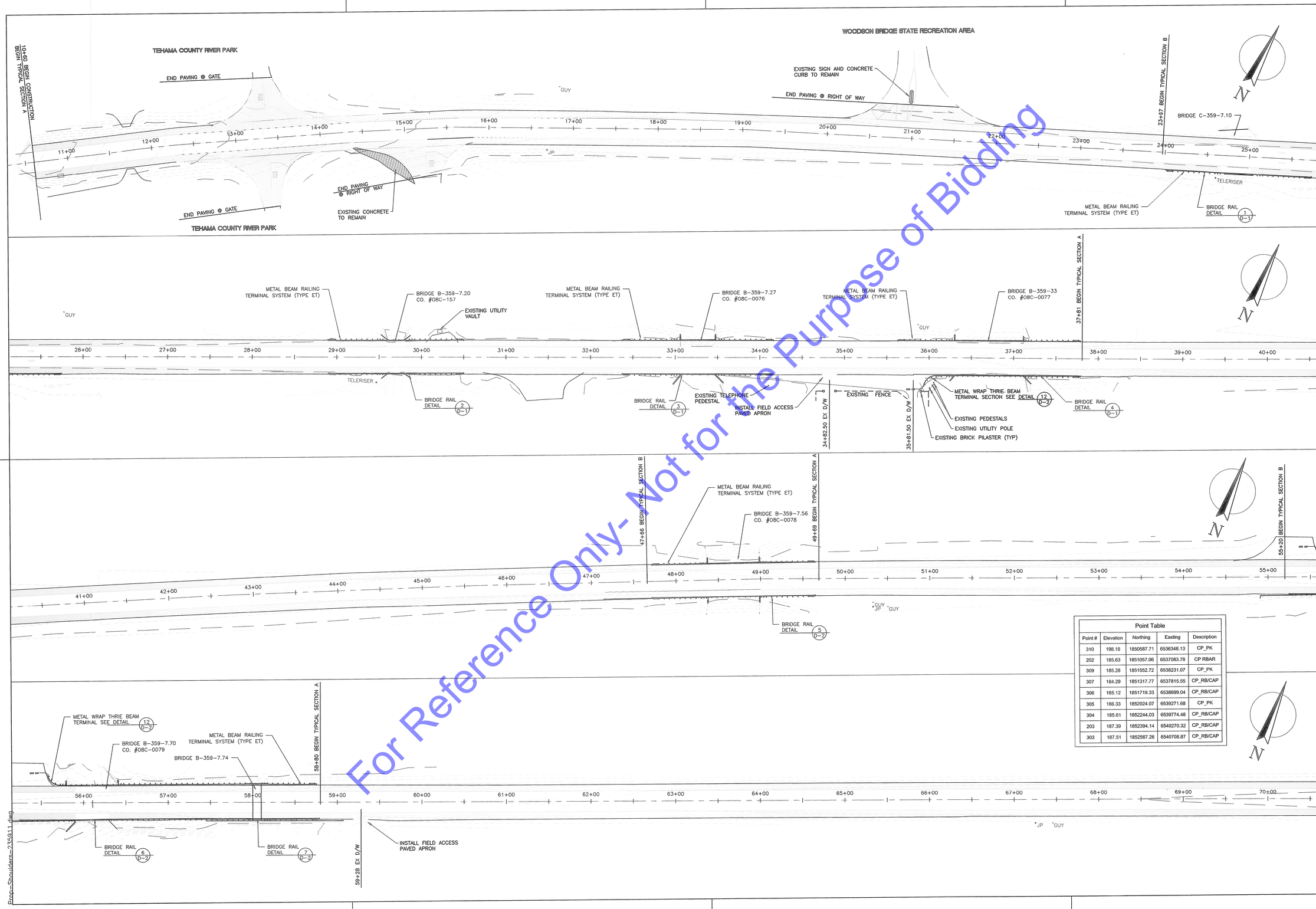
SOUTH AVE.
SHOULDER WIDENING
TYPICAL CROSS SECTION

PROJECT NO.: 235911

SHEET NO.	PAGE NO.
X-1	02/10

For Reference Only- Not for the Purpose of Bidding

P:\235911 South Avenue Shoulder Widening\DWG\3D-DATA_235991\PROPOSED\Prop-Shoulders-235911.dwg8/19/2014
Prop-Shoulders-235911.dwg



Point Table

Point #	Elevation	Northing	Easting	Description
310	198.16	1850587.71	6536348.13	CP_PK
202	185.63	1851057.06	6537083.78	CP RBAR
309	185.28	1851552.72	6538231.07	CP_PK
307	184.29	1851317.77	6537815.55	CP_RB/CAP
306	185.12	1851719.33	6538699.04	CP_RB/CAP
305	186.33	1852024.07	6539271.68	CP_PK
304	185.61	1852244.03	6539774.48	CP_RB/CAP
203	187.39	1852394.14	6540270.32	CP_RB/CAP
303	187.51	1852587.26	6540708.87	CP_RB/CAP

No.	REVISION:	BY:	DATE:

REGISTERED PROFESSIONAL ENGINEER
ALAN S. ROSSER
C 78389
CIVIL
STATE OF CALIFORNIA

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9380 San Benito Ave.
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(530) 385-1462

COUNTY OF TEHAMA

SCALE	
HORIZ:	1:50
VERT:	1:50
DRAWN BY:	SRA
DATE:	5/13/2014
CHECKED BY:	
DATE:	

SOUTH AVE. SHOULDER WIDENING LAYOUT

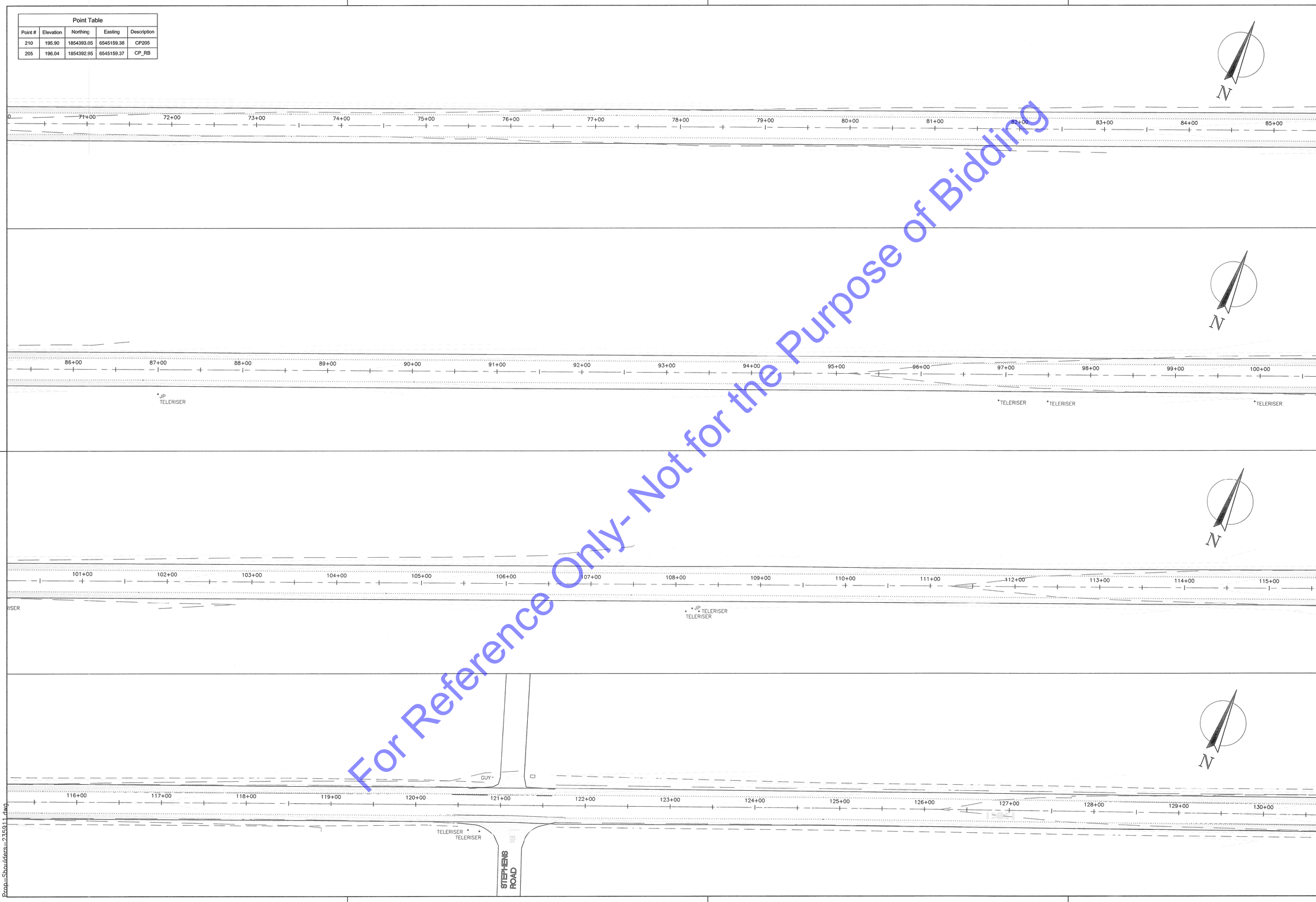
PROJECT NO.: 235911

SHEET NO.	PAGE NO.
L-1	03/10

For Reference Only- Not for the Purpose of Bidding

P:\235911 South Avenue Shoulder Widening\DWG\3D-DATA_235991\PROPOSED\Prop-Shoulders-235911.dwg8/19/2014

Point Table				
Point #	Elevation	Northing	Easting	Description
210	195.90	1854393.05	6545159.38	CP205
205	196.04	1854392.95	6545159.37	CP_RB



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No.	REVISION:	BY:	DATE:

REGISTERED PROFESSIONAL ENGINEER KEVIN S. ROSSER C 78389 CIVIL STATE OF CALIFORNIA

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9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

COUNTY OF TEHAMA

SCALE	
HORIZ:	1:50
VERT:	1:50
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DATE:	5/13/2014
CHECKED BY:	
DATE:	

SOUTH AVE.
SHOULDER WIDENING
LAYOUT

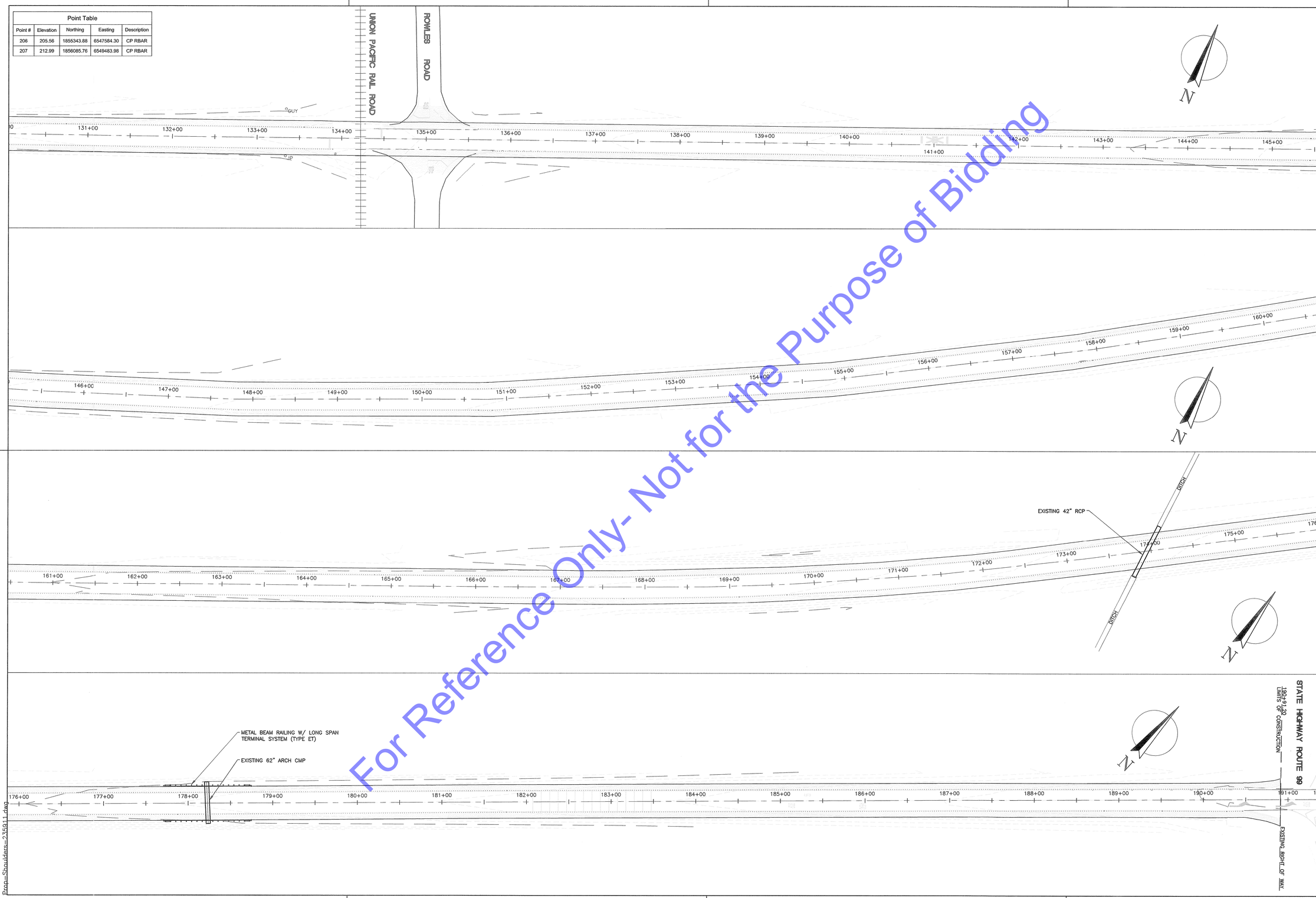
PROJECT NO.: 235911

SHEET NO.	PAGE NO.
L-2	04/10

P:\235911 South Avenue Shoulder Widening\DWG\3D-DATA_235991\PROPOSED\Prop-Shoulders-235911.dwg8/19/2014

Prop-Shoulders-235911.dwg

Point Table				
Point #	Elevation	Northing	Easting	Description
206	205.56	1855343.88	6547584.30	CP RBAR
207	212.99	1856085.76	6549483.98	CP RBAR



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REGISTERED PROFESSIONAL ENGINEER KEITH S. ROSSER C 78389 CIVIL STATE OF CALIFORNIA

TEHAMA COUNTY PUBLIC WORKS
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Gerber, Ca 96035
(530) 385-1462

COUNTY OF TEHAMA

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VERT:	1:50
DRAWN BY:	SRA/TAC
DATE:	5/13/2014
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DATE:	

SOUTH AVE. SHOULDER WIDENING LAYOUT

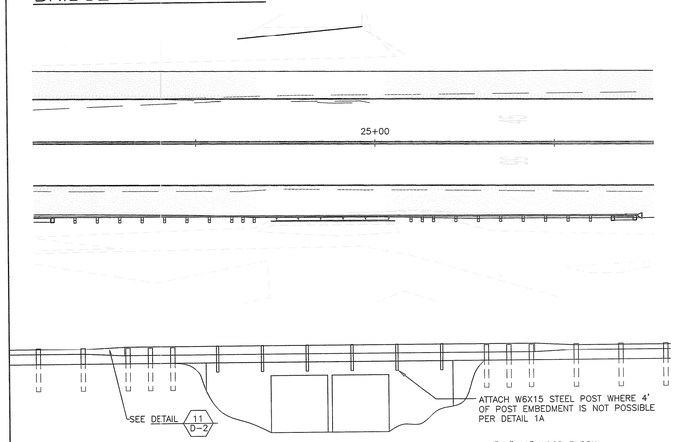
PROJECT NO.: 235911

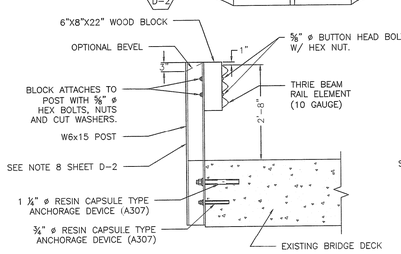
SHEET NO.	PAGE NO.
L-3	05/10

P:\235911 South Avenue Shoulder Widening\DWG\3D-DATA_235991\PROPOSED\Prop-Shoulders-235911.dwg8/19/2014

Prop-Shoulders-235911.dwg

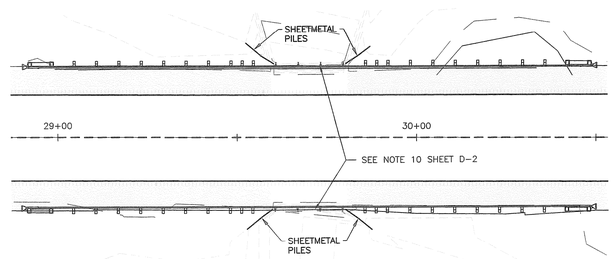
BRIDGE C-359-7.10

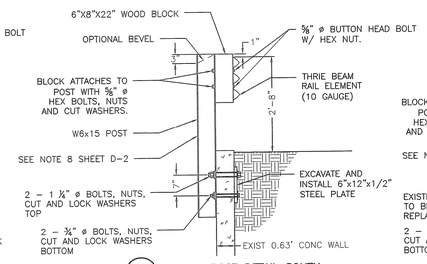




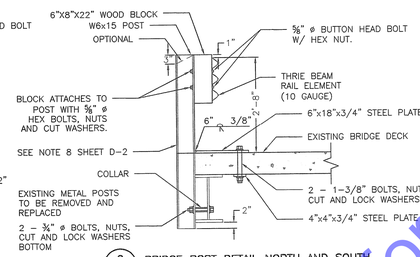
1 D-1 BRIDGE POST DETAIL SOUTH
NTS

BRIDGE B-359-7.20/ 08C-157



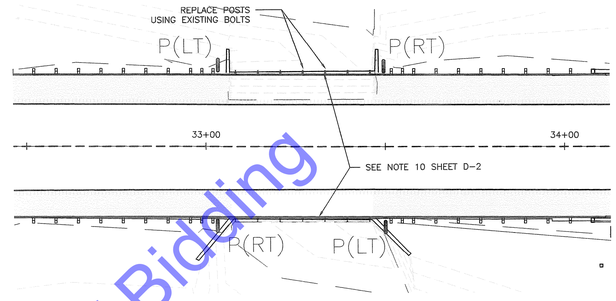


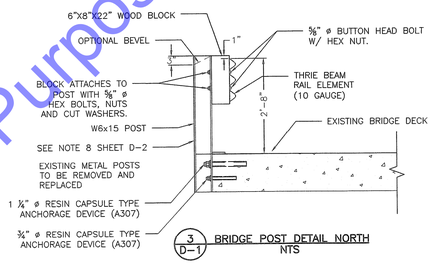
1A D-1 BRIDGE POST DETAIL SOUTH
NTS



2 D-1 BRIDGE POST DETAIL NORTH AND SOUTH
NTS

BRIDGE B-359-7.27/ 08C-0076





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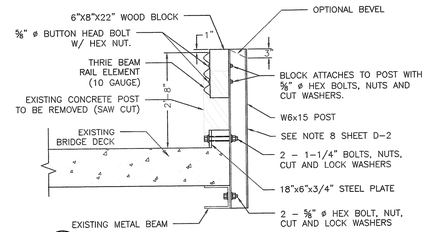

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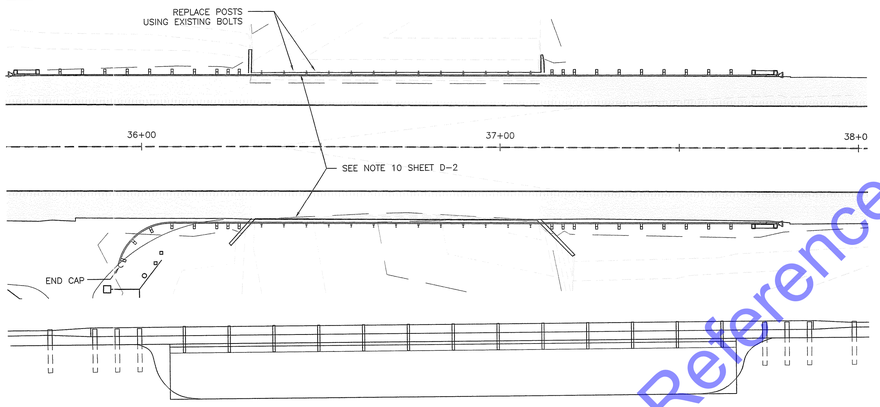
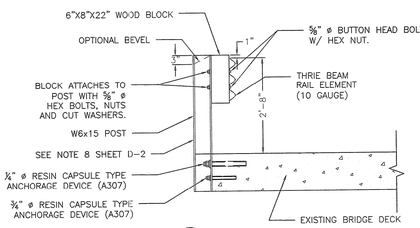
B-359-7.33/ 08C-0077





5 D-1 BRIDGE POST DETAIL NORTH
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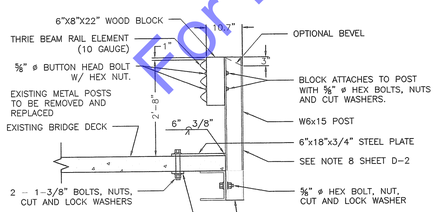

6 D-1 BRIDGE POST DETAIL SOUTH
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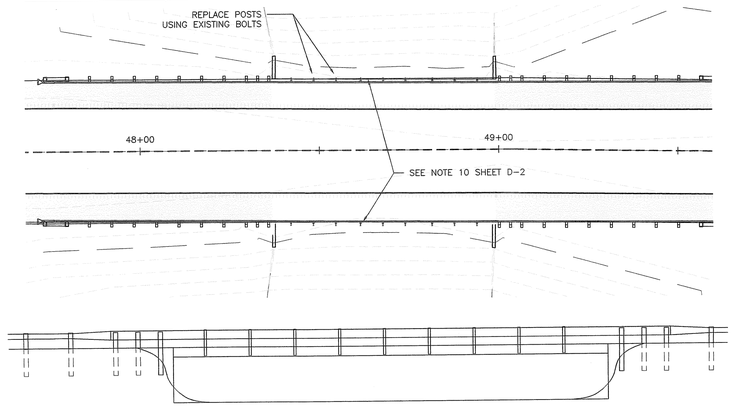
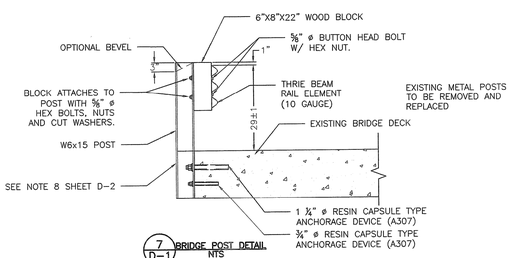




7 D-1 BRIDGE POST DETAIL
NTS

No.	REVISION:	BY:	DATE:
1	DETAILS, NOTES & QUANTITIES	TAC	8/19/14

REGISTERED PROFESSIONAL ENGINEER
ALAN S. ROSSER
C 78389
CIVIL
STATE OF CALIFORNIA

TEHAMA COUNTY PUBLIC WORKS
9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

COUNTY OF TEHAMA

SCALE	
HORIZ:	1:50
VERT:	1:50
DRAWN BY:	SRA/TAC
DATE:	8/8/2014
CHECKED BY:	
DATE:	

SOUTH AVE.
SHOULDER WIDENING
DETAILS

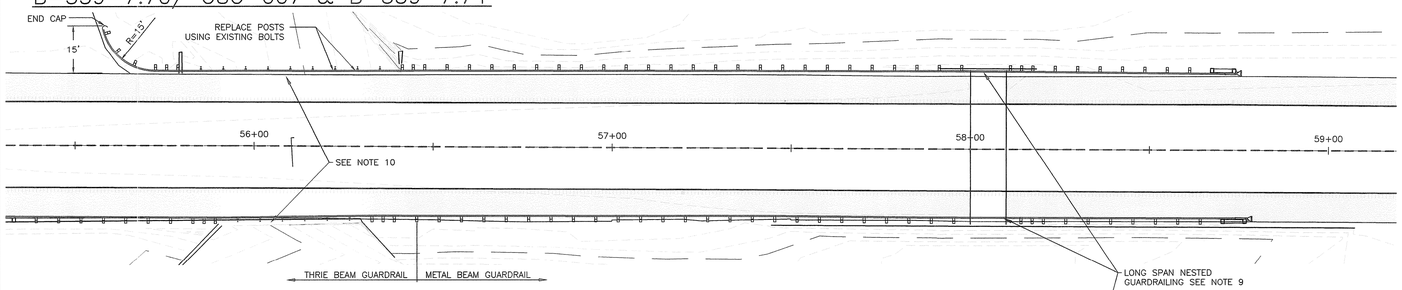
PROJECT NO.: 235911

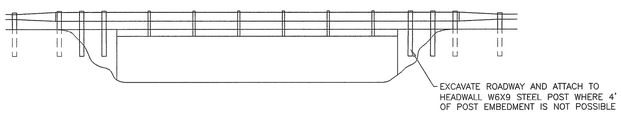
SHEET NO.	PAGE NO.
D-1	06/10

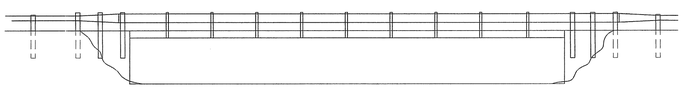
For Reference Only- Not for the Purpose of Bidding

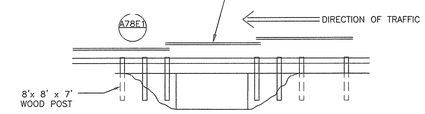
P:\235911 South Avenue Shoulder Widening\DWG\3D-DATA_235991\PROPOSED\Prop-Shoulders-235911.dwg8/19/2014
Prop-Shoulders-235911.dwg

B-359-7.70/ 08C-007 & B-359-7.74

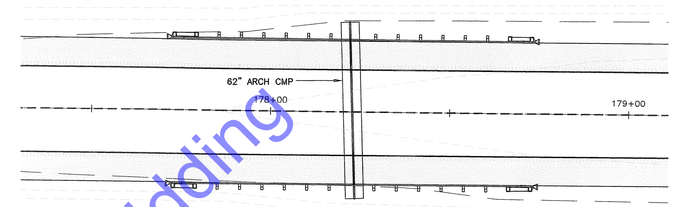


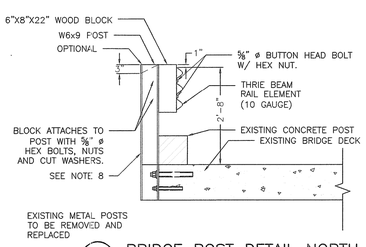




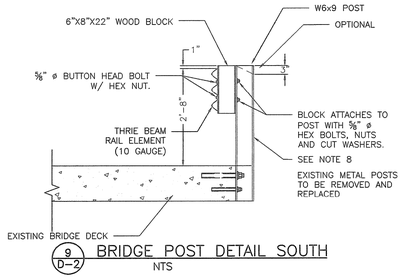


62" ARCH CMP

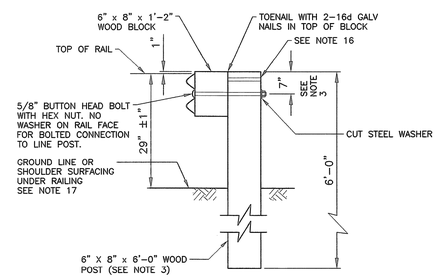




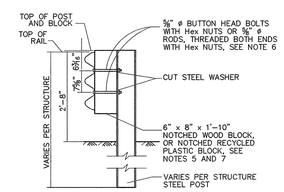
8 / D-2 BRIDGE POST DETAIL NORTH
NTS



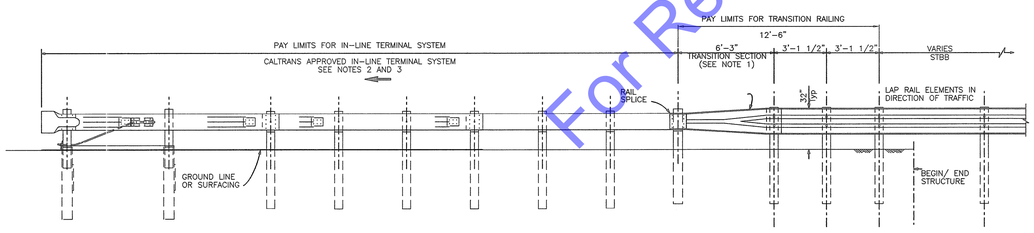
9 / D-2 BRIDGE POST DETAIL SOUTH
NTS



10 / D-2 STANDARD POST DETAIL A77A1
NTS



SECTION B-B
TYPICAL STEEL LINE POST INSTALLATION
CALTRANS STD PLANS A78B



11 / D-2 END TREATMENT FOR TRAFFIC APPROACH END OF SINGLE THRIE BEAM BARRIER
MODIFIED 2010 STANDARD PLAN DETAIL A78E1

NOTES:

1. THE "W" BEAM TO THRIE BEAM SECTION IS ONLY REQUIRED WHERE THE TERMINAL SYSTEM CONNECTION TO THE THRIE BEAM BARRIER IS A "W" BEAM RAIL.
2. IN-LINE TERMINAL SYSTEM END TREATMENTS ARE USED WHERE SITE CONDITIONS WILL NOT ACCOMMODATE A FLARED END TREATMENT THE TYPE OF TERMINAL SYSTEM TO BE USED WILL BE SHOWN ON THE PROJECT PLANS.
3. A CALTRANS APPROVED CRASH CUSHION SHOULD BE USED IN PLACE OF A TERMINAL SYSTEM END TREATMENT WHERE THE BACKSIDE OF THE RAILING WOULD BE EXPOSED TO TRAFFIC.
4. FOR DETAILS NOT SHOWN SEE STANDARD PLANS 2010
   A77F1, A77C3, A77H1
5. FOR DETAILS OF STANDARD HARDWARE, POSTS AND BLOCKS USED TO CONSTRUCT THRIE BEAM BARRIER, SEE STANDARD PLANS A78C1 AND A78C2.
6. ATTACH RAIL ELEMENT TO BLOCK AND STEEL POST WITH 2 BOLTS OR RODS ON APPROACHING TRAFFIC SIDE OF BLOCK AND POST WEB. NO WASHER ON RAIL FACE FOR ROD OR BOLTED CONNECTIONS TO LINE POST.
7. NOTCHED FACE OF BLOCK FACES STEEL POST.
8. CONTRACTOR MUST PERFORM FIELD MEASUREMENTS PRIOR TO ORDERING AND INSTALLING POSTS TO INSURE DIMENSIONS ARE MET.
9. SEE CALTRANS TRAFFIC MANUAL SECTION 7-31(01-2012).
10. EXISTING GUARDRAIL ON STRUCTURES TO BE REMOVED.

GUARDRAIL ITEMS

LOCATION			METAL BEAM GUARD RAIL	ALTERNATIVE IN-LINE TERMINAL SYSTEM	THRIE BEAM BARRIER	TRANSITION RAILING	REMOVE GUARDRAILING
BRIDGE	STATION	RT/LT	LF	EA	LF	EA	LF
C-359-7.10	23+98 - 25+71	RT	0	2	37.5	2	32
B-359-7.20	28+90 - 30+50	RT	0	2	25	2	28
B-359-7.20	28+90 - 30+50	LT	0	2	25	2	28
B-359-7.27	32+30.25 - 34+09.25	RT	0	2	50	2	55
B-359-7.27	32+30.25 - 34+09.25	LT	0	2	50	2	55
B-359-7.33	35+63.25 - 37+79.25	RT	0	2	125	2	91
B-359-7.33	35+63.25 - 37+79.25	LT	0	2	87.5	2	91
B-359-7.56	47+71.50 - 49+64.50	RT	0	2	62.5	2	79
B-359-7.56	47+71.50 - 49+64.50	LT	0	2	62.5	2	79
B-359-7.70	55+25.50 - 58+77.50	RT	200	2	50	1	75
& 7.74	55+57.50 - 58+77.50	LT	200	1	87.5	2	75
62" CMP	177+70 - 178+74	RT	12.5	2	0	0	0
62" CMP	177+70 - 178+74	LT	12.5	2	0	0	0
		TOTAL	425	25	662.5	21	688

SOUTH AVENUE WIDENING - ROADWAY ITEMS

LOCATION	HOT MIX ASPHALT (TYPE B)	CLASS 2 AGGREGATE BASE	COLD PLANE	RUMBLE STRIPS	ASPHALTIC EMULSION	SHOULDER BACKING
STATION	CY	CY	SY	LF	TONS	CY
STA 10+60.50 to SAT 190+26.44	2590	110	34963	52,050	17	238
	2590	110	34963	52,050	17	238
tons/cy =	x 1.96	x 1.82				x 1.82
	5076 tons	200 tons				433 tons

No.	REVISION:	BY:	DATE:
1	DETAILS, NOTES & QUANTITIES	TAC	8/19/14

REGISTERED PROFESSIONAL ENGINEER KEVIN S. ROSSER C 79389 CIVIL STATE OF CALIFORNIA

TEHAMA COUNTY PUBLIC WORKS
9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

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DATE:	

SOUTH AVE. SHOULDER WIDENING DETAILS

PROJECT NO.: 235911

SHEET NO. D-2 PAGE NO. 07/10

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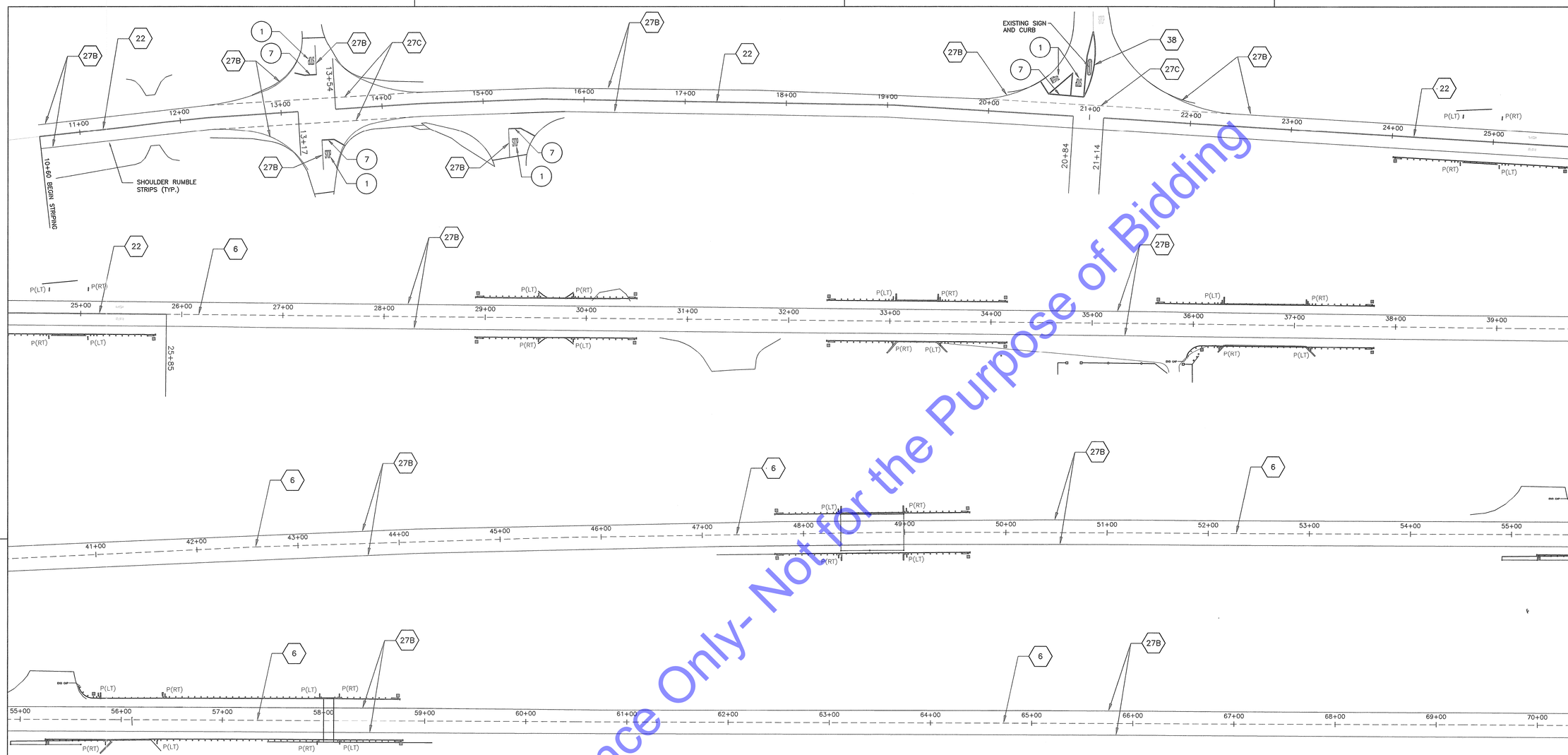

LEGEND

PER STATE OF CALIFORNIA STANDARD PLANS

TRAFFIC STRIPES

- 6 — 4" DASHED YELLOW LINE W/ MARKERS
- 22 — 4" SOLID DOUBLE YELLOW LINES W/ MARKERS
- 27B — 4" SOLID WHITE LINE
- 27C — 4" DASHED WHITE LINE
- 38A — 8" SOLID WHITE LINE

BRIDGE & GUARD RAILING

- DELINEATOR
- OBJECT MARKER – TYPE AS NOTED

PAVEMENT MARKINGS

1. "STOP" PAVEMENT MARKING
2. NUMERALS
3. ARROW TYPE IV (L) (R)
4. ARROW TYPE V
5. ARROW TYPE III (R)
6. RAILROAD CROSSING SYMBOL
7. 12" WHITE STOP LIMIT LINE
8. "AHEAD" PAVEMENT MARKING
9. 24" WHITE TRANSVERSE LINE

NOTES

1. STRIPING DETAIL NUMBERS SHALL COMPLY WITH CALTRANS STANDARD PLANS. REFER TO STANDARD PLANS A20A → A20D.
2. PAVEMENT MARKINGS AND SYMBOLS SHALL COMPLY WITH CALTRANS STANDARD PLANS. REFER TO MOST CURRENT VERSION OF STANDARD PLANS FOR DETAILS.
3. ALL SIGNING AND STRIPING SHALL COMPLY WITH THE 2012 CA-MUTCD, OR NEWER VERSION.
4. ALL DELINEATORS SHALL BE POSITIONED 2' TO 3' OFF THE EDGE OF PAVED SHOULDER UNLESS INSTALLED ON GUARDRAIL OR AS NOTED ON PLAN.

NOTE: THESE QUANTITIES ARE FOR GENERAL REFERENCE AND ARE APPROXIMATE. REFER TO SPECIFICATIONS/BID ITEM LIST FOR BID QUANTITIES. REFER TO SPECIFICATIONS FOR MEASUREMENT AND PAYMENT.

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REGISTERED PROFESSIONAL ENGINEER — KEVIN S. ROSSER — C 78389 — CIVIL — STATE OF CALIFORNIA

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SOUTH AVE. SHOULDER WIDENING STRIPING

PROJECT NO.: 235911

SHEET NO.	PAGE NO.
STP-1	08/10

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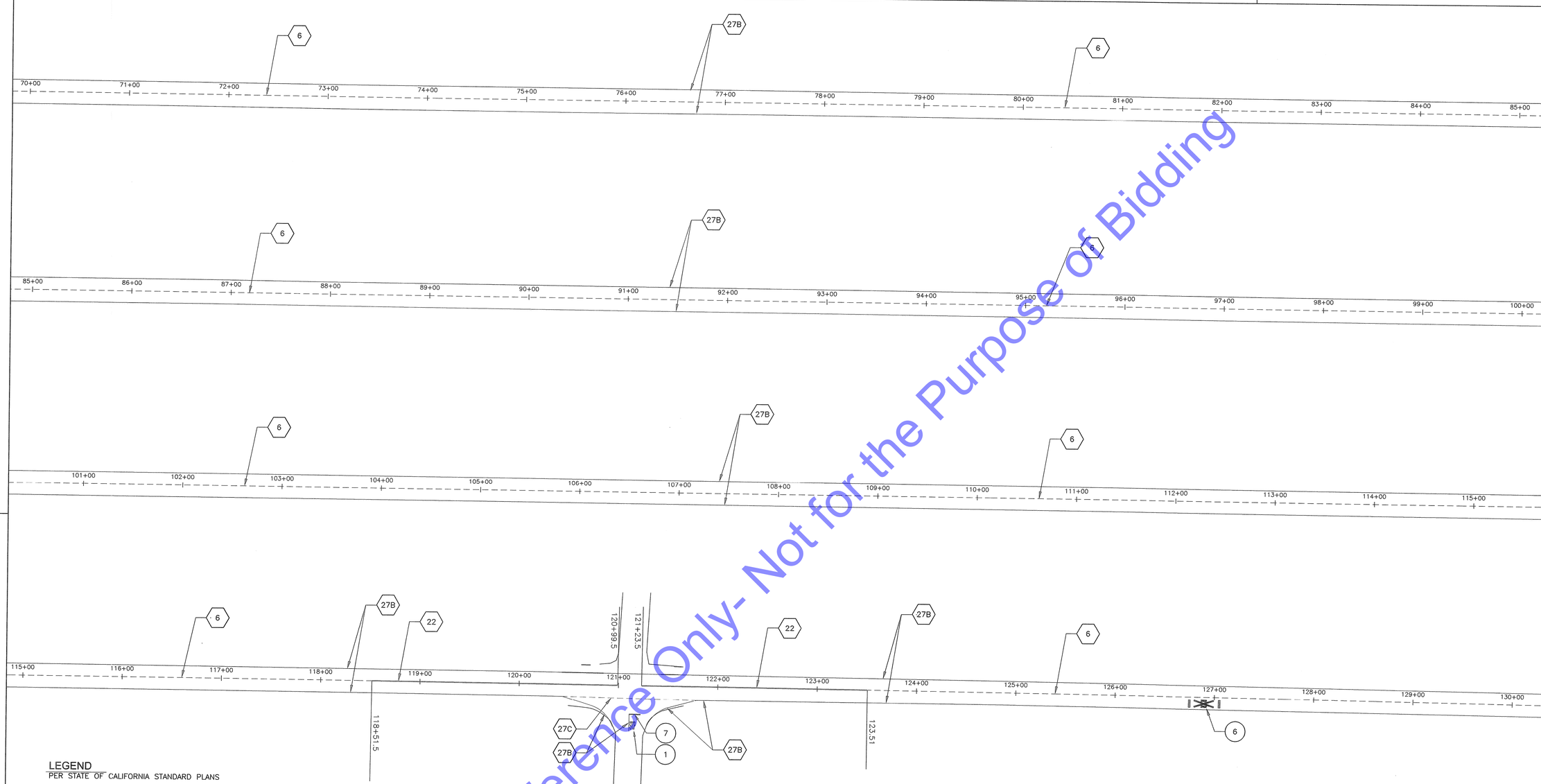

LEGEND

PER STATE OF CALIFORNIA STANDARD PLANS

TRAFFIC STRIPES

- 6 — 4" DASHED YELLOW LINE W/ MARKERS
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BRIDGE & GUARD RAILING

- DELINEATOR
- P — OBJECT MARKER – TYPE AS NOTED

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5. ARROW TYPE III (R)
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SOUTH AVE. SHOULDER WIDENING STRIPING

PROJECT NO.: 235911

SHEET NO.	PAGE NO.
STP-2	09/10

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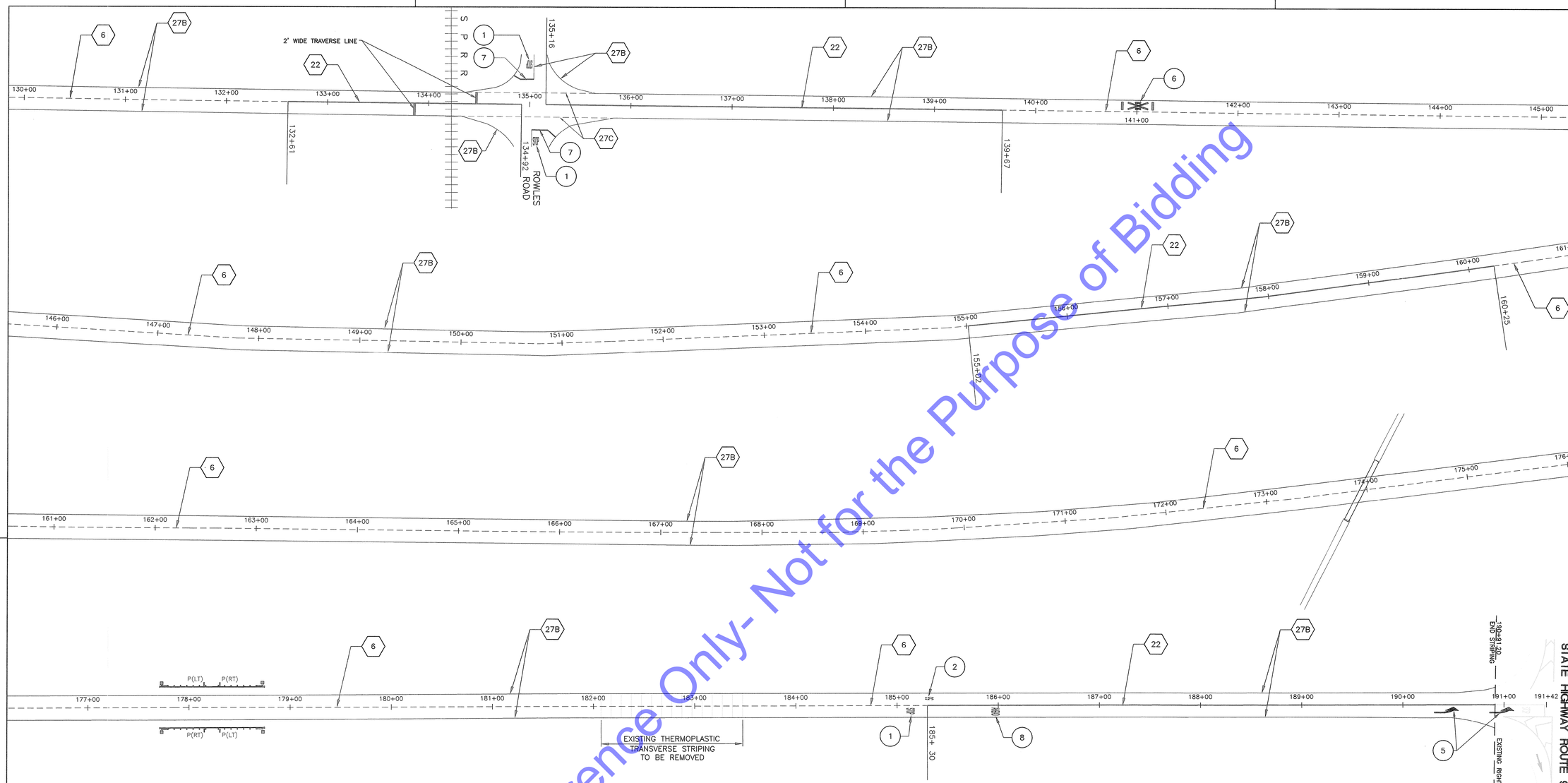

LEGEND

PER STATE OF CALIFORNIA STANDARD PLANS

TRAFFIC STRIPES

- (6) 4" DASHED YELLOW LINE W/ MARKERS
- (22) 4" SOLID DOUBLE YELLOW LINES W/ MARKERS
- (27B) 4" SOLID WHITE LINE
- (27C) 4" DASHED WHITE LINE
- (38A) 8" SOLID WHITE LINE

BRIDGE & GUARD RAILING

- DELINEATOR
- OBJECT MARKER – TYPE AS NOTED

PAVEMENT MARKINGS

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2. NUMERALS
3. ARROW TYPE IV (L) (R)
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LOCATION	STRIPE AND PAVEMENT MARKERS												DELINIATORS & MARKERS		
	TRAFFIC STRIPES					PAVEMENT MARKINGS				PAVEMENT MARKERS			A73B TYPE P		
	DETAIL 6 LF	DETAIL 22 LF	DETAIL 27C LF	DETAIL 27B LF	DETAIL 38A LF	STOP A24D SQ FT	AHEAD A24D SQ FT	LIMIT LINE A24E SQ FT	ARROW A24A III SQ FT	TYPE D EA	TYPE G EA	TYPE H EA	LT	RT	GUARD RAILING DELINEATION A77C4
SOUTH AVENUE	14214	3699	1077	36190	185	176	31	155	84	628	0	0	12	12	26
TOTALS	14214	3699	1077	36190	185	176	31	155	84	628	0	0	12	12	26

* WITHOUT RETROREFLECTIVE SHEETING

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COUNTY OF TEHAMA

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DATE:	4–18–14

SOUTH AVE. SHOULDER WIDENING STRIPING

PROJECT NO.: 235911

SHEET NO.	PAGE NO.
STP–3	10/10

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