Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol,Sac	80	R10.9/R11.7, M0.0/M10.4	2	1012

REGISTERED CIVIL ENGINEER 6-15-10 DATE

9-7-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER A. Y. FONG No. 64343 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

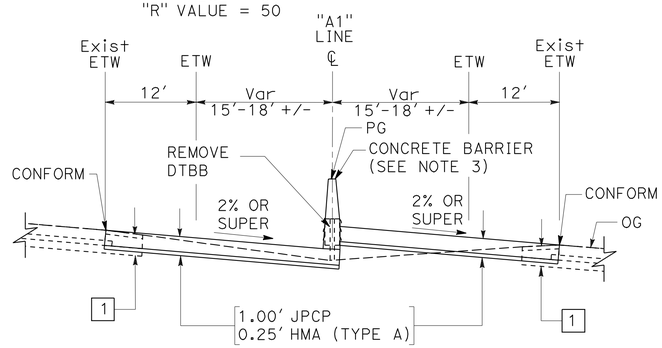
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

DESIGN DESIGNATIONS

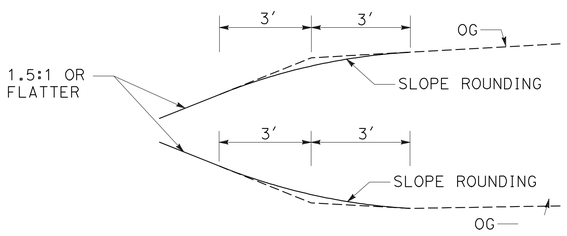
T = 6%	V = 70 MPH		
D(EB) = 55-57%	D(WB) = 53-64%		
YOLO/SACRAMENTO COUNTY LINE	AADT(2005) = 81,000	AADT(2034) = 115,000	DDHV = 4,175
WEST EL CAMINO AVENUE	AADT(2005) = 84,000	AADT(2034) = 119,000	DDHV = 4,329
ROUTE 5/80 SEPARATION	AADT(2005) = 144,000	AADT(2034) = 204,000	DDHV = 6,769
NORTHGATE BOULEVARD	AADT(2005) = 138,000	AADT(2034) = 196,000	DDHV = 5,737
NORWOOD AVENUE	AADT(2005) = 146,000	AADT(2034) = 207,000	DDHV = 6,070
RALEY BOULEVARD	AADT(2005) = 144,000	AADT(2034) = 204,000	DDHV = 6,455
WINTERS STREET	AADT(2005) = 141,000	AADT(2034) = 200,000	DDHV = 5,732
ROUTE 80 (MAIN LINE)	TI = 15	"R" VALUE = 50	
AUXILIARY LANES	TI = 14.5	"R" VALUE = 50	
ROUTE 80 HOV LANES	TI = 12.5	"R" VALUE = 50	

ABBREVIATIONS

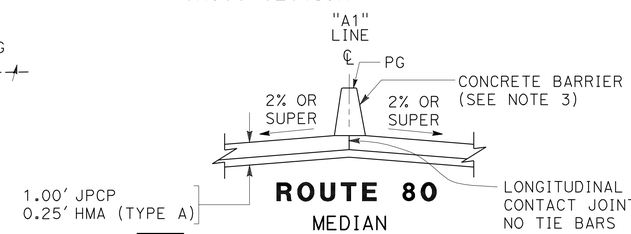
LTS	LIME TREATED SOIL
SUPER	SUPERELEVATION
TI	TRAFFIC INDEX
EOC	EDGE OF CONCRETE
GB	GRADE BREAK
LL	LANE LINE
CP	CATCH POINT
HOV	HIGH OCCUPANCY VEHICLE
RSC	RAPID STRENGTH CONCRETE
RHMA-O	RUBBERIZED HOT MIX ASPHALT (TYPE O)
FOB	FACE OF BARRIER
S/C	SAWCUT
TOB	TOP OF BARRIER



ROUTE 80
MEDIAN
TYPICAL SUPERELEVATION CROSS SECTION

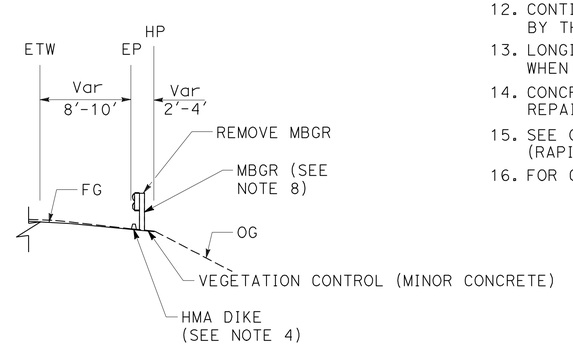


TYPICAL SLOPE ROUNDING DETAIL



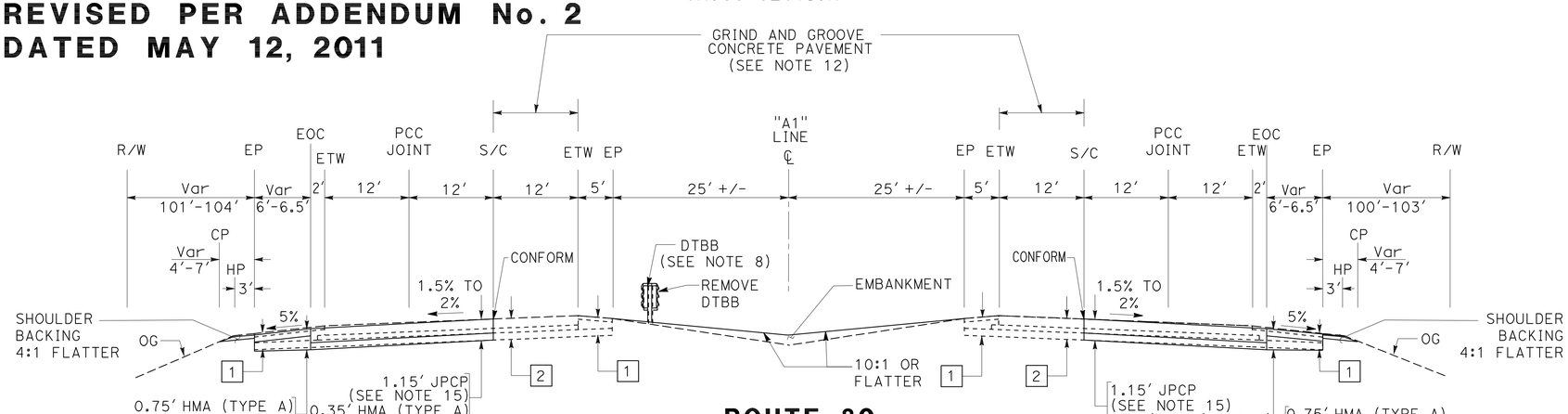
ROUTE 80
MEDIAN

2 TYPICAL LONGITUDINAL JOINT CROSS SECTION



TYPICAL MBGR AND HMA DIKE CROSS SECTION

2 REVISED PER ADDENDUM No. 2 DATED MAY 12, 2011



ROUTE 80

WESTBOUND
"A1" 239+22.5 TO 239+50

EASTBOUND
"A1" 239+22.5 TO 239+50

NOTES:

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR BARRIER LOCATION AND TYPE, SEE LAYOUT SHEETS.
4. FOR HMA DIKE AND CURB LOCATION AND TYPE, SEE LAYOUT SHEETS.
5. EXISTING PAVEMENT SECTIONS SHOWN ARE BASED ON AS-BUILT INFORMATION AND ARE SUBJECT TO VARIATION DUE TO CONSTRUCTION TOLERANCES AND INTERIM ROADWAY MAINTENANCE ACTIVITIES.
6. FOR LOCATION OF EDGE DRAINS, SEE DRAINAGE PLANS.
7. SEE STRUCTURE PLANS FOR ADDITIONAL INFORMATION AND STRUCTURE QUANTITIES.
8. FOR MBGR/DTBB LOCATION, SEE LAYOUT SHEETS.
9. SEE LAYOUT AND CONSTRUCTION DETAILS FOR LOCATION OF TAPERS AND CONFIGURATION.
10. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
11. SEE SUMMARY OF QUANTITIES FOR LOCATIONS AND LIMITS OF GRIND AND GROOVE CONCRETE PAVEMENT.
12. CONTINUOUS OR INDIVIDUAL SLABS TO BE REPLACED AS DETERMINED BY THE ENGINEER.
13. LONGITUDINAL FORMS SHALL BE USED TO PROVIDE CORRECT CROSS SLOPE WHEN REQUESTED BY ENGINEER.
14. CONCRETE PAVEMENT SHALL BE GROUND AND GROOVED AFTER REPAIR/REPLACEMENT OF CONCRETE PAVEMENT.
15. SEE QUANTITY SHEETS FOR LIMITS OF CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE).
16. FOR GUTTER LOCATIONS, SEE LAYOUT SHEETS.

TYPICAL STRUCTURAL SECTIONS

EXISTING

1	0.25' HMA Var AB 0.50' LTS
2	0.67' PCC 0.33' CTB 0.50' LTS
3	0.35' HMA 0.65' CTB 0.50' LTS
4	0.35' HMA Var AB 0.50' LTS
5	0.06' HMA (OPEN GRADED) 0.50' HMA 0.25' ATPB 0.90' CI AB 1.10' CI AS
6	0.10' RHMA-O 0.30' HMA 0.50' ACB 0.75' AS
7	0.15' RHMA-O 0.50' HMA 1.87' AB

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY | DATE REVISED
A. RANDHAWA | A. FONG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: CYRUS HUI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
NORTH REGION
OFFICE OF DESIGN SOUTH
DESIGN BRANCH S7

LAST REVISION 00-00-00 | DATE PLOTTED => 10-MAY-2011 | TIME PLOTTED => 15:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol, Sac	80	R10.9/R11.7, M0.0/M10.4	12	1012

REGISTERED CIVIL ENGINEER 6-15-10 DATE

9-7-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER A. Y. FONG No. 64343 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EDGE OF CONCRETE IS LOCATED AT EXISTING EDGE OF TRAVELED WAY PER AS-BUILTS. CTB IS LOCATED AT EXISTING EDGE OF TRAVELED WAY PER AS-BUILTS.
3. FOR LOCATION OF EXISTING DTBB AND TBB, VERIFY IN FIELD.
4. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
5. FOR ADDITIONAL FENCE REMOVAL AND CONSTRUCTION AT SOUND WALL LOCATIONS, SEE SOUND WALL PLANS.
6. FOR LIMITS OF RHMA-O OVERLAY AND COLD PLANE AC PAVEMENT, SEE TYPICAL CROSS SECTION.
7. ALIGNMENTS SHOWN ARE BASED ON A FIELD SURVEY "BEST FIT" RETRACEMENT OF THE AS-BUILT ALIGNMENTS.
8. THE ENGINEER WILL DETERMINE CONTINUOUS OR INDIVIDUAL SLABS TO BE REPLACED.
9. UTILITY OWNERSHIP ON THIS PROJECT:

GAS	- PACIFIC GAS & ELECTRIC (PG&E)
ELECTRIC	- SACRAMENTO MUNICIPAL UTILITY DISTRICT (SMUD)
	- PG&E
	- REGIONAL TRANSIT
SANITARY SEWER	- SACRAMENTO COUNTY
WATER	- CITY OF SACRAMENTO
FIBER OPTIC CABLE	- NEXLINK COMMUNICATION INC
	- ELECTRIC LIGHT WAVE
	- PHOENIX FIBERLINK INC
	- BROOKS FIBER COMMUNICATIONS
	- WESTERN INTEGRATED NETWORKS
	- SUREWEST
CABLE TELEVISION	- COMCAST
OIL	- KINDER MORGAN
TELEPHONE	- AT&T

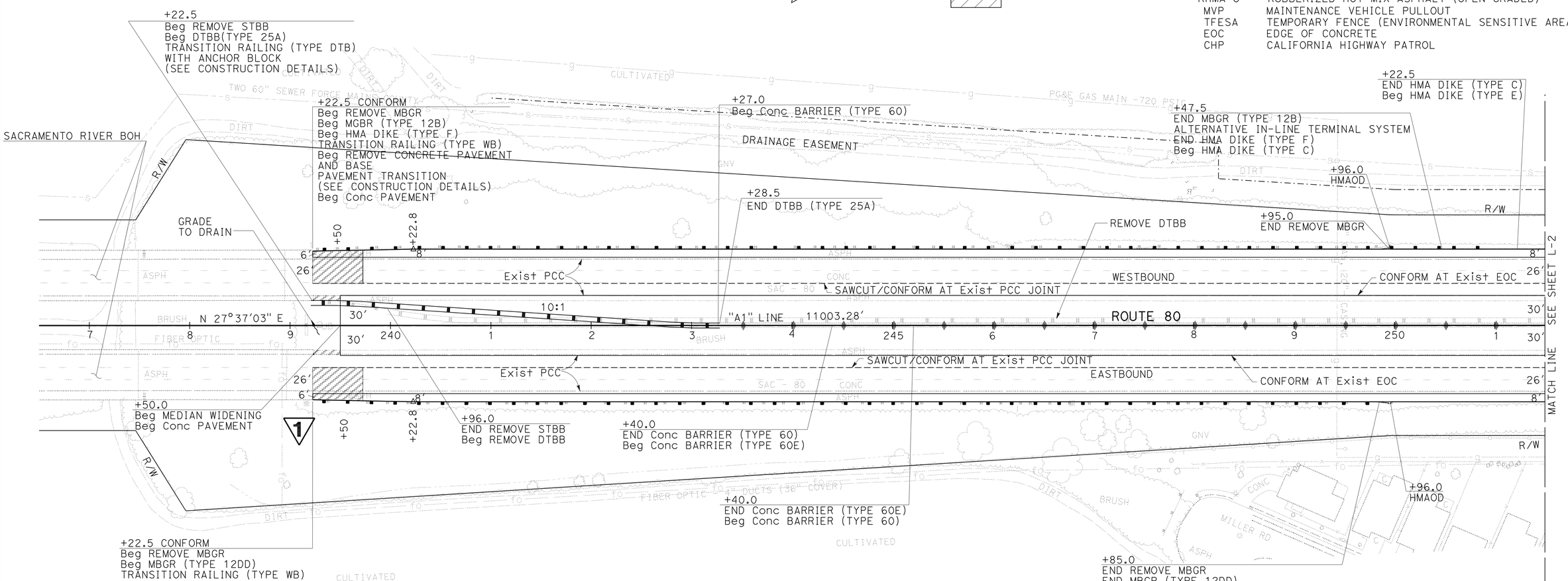
10. DEPTH OF POTHOLE DATA IS FROM OG TO TOP OF UTILITY.

LEGEND

- ANGLE POINT
- (No.) CURVE NUMBER
- SAWCUT/CONFORM
- DRAINAGE EASEMENT
- 0.1′ RHMA-O OVERLAY
- TRANSITION CONFORM RHMA-O OVERLAY TAPER
- PAVEMENT TRANSITION (SEE CONSTRUCTION DETAILS PLAN)
- COLD PLANE AC PAVEMENT (0.10′ Max)
- COLD PLANE AC PAVEMENT (0.25′ Max)

ABBREVIATIONS

HMAOD	HOT MIX ASPHALT OVERSIDE DRAIN
TCE	TEMPORARY CONSTRUCTION EASEMENT
G	GAS
E	ELECTRIC
S	SANITARY SEWER
W	WATER
FO	FIBER OPTIC
TV	CABLE TELEVISION
T	TELEPHONE
TC	TELEMETER CABLE (FIBER OPTIC)
UG	UNDERGROUND
ESA	ENVIRONMENTALLY SENSITIVE AREA
RHMA-O	RUBBERIZED HOT MIX ASPHALT (OPEN GRADED)
MVP	MAINTENANCE VEHICLE PULLOUT
TFESA	TEMPORARY FENCE (ENVIRONMENTAL SENSITIVE AREA)
EOC	EDGE OF CONCRETE
CHP	CALIFORNIA HIGHWAY PATROL



2 REVISED PER ADDENDUM No. 2 DATED MAY 12, 2011

1 REVISED PER ADDENDUM No. 1 DATED MARCH 24, 2011

LAYOUT

SCALE: 1" = 50′ **L-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® OFFICE OF DESIGN SOUTH
NORTH REGION
DESIGN BRANCH S7

FUNCTIONAL SUPERVISOR: CYRUS HUI
CALCULATED-DESIGNED BY: A. RANDHAWA
CHECKED BY: A. FONG
REVISED BY / DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 10-MAY-2011 | TIME PLOTTED => 15:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yol,Sac	80	R10.9/R11.7, M0.0/M10.4	44	1012

REGISTERED CIVIL ENGINEER 6-15-10 DATE

9-7-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER A. Y. FONG No. 64343 Exp 6-30-11 CIVIL STATE OF CALIFORNIA

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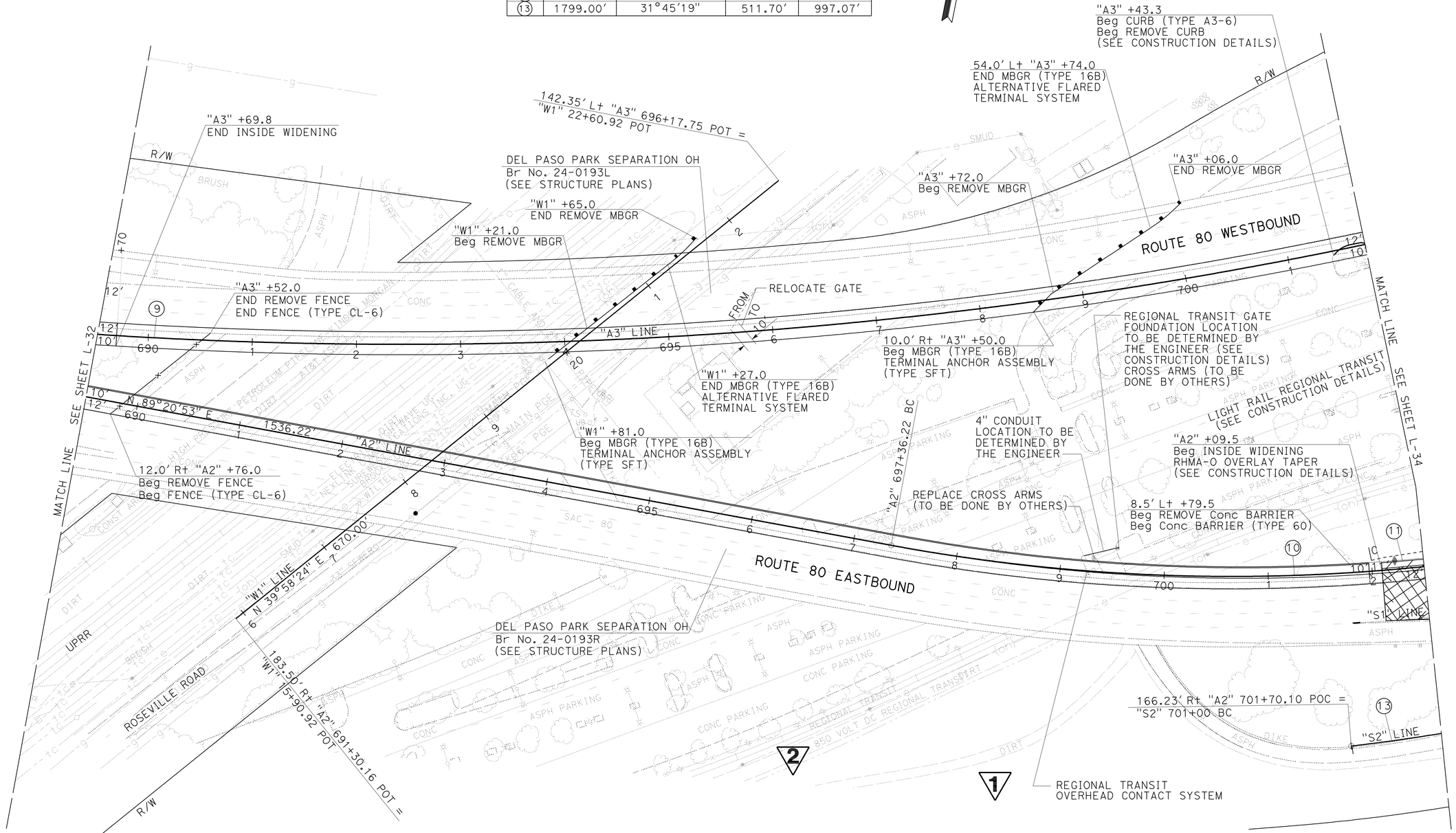
NOTE:

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

CURVE DATA

No.	R	Δ	T	L
9	4500.00′	42°10′17″	1735.11′	3312.13′
10	1800.00′	42°50′04″	706.03′	1345.68′
11	1809.00′	27°57′08″	450.24′	882.54′
13	1799.00′	31°45′19″	511.70′	997.07′



2 REVISED PER ADDENDUM No. 2 DATED MAY 12, 2011

1 REVISED PER ADDENDUM No. 1 DATED MARCH 24, 2011

LAYOUT

SCALE: 1" = 50′

L-33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NORTH REGION
OFFICE OF DESIGN SOUTH
DESIGN BRANCH S7

FUNCTIONAL SUPERVISOR: CYRUS HUI
CALCULATED-DESIGNED BY: A. RANDHAWA
CHECKED BY: A. FONG
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 10-MAY-2011
TIME PLOTTED => 17:47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Sac,Yol	80	R10.9/R11.7, M0.0/M10.4	819	1012

Eric Watson 3/26/10
REGISTERED CIVIL ENGINEER DATE

9-7-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Eric Watson No. 64273 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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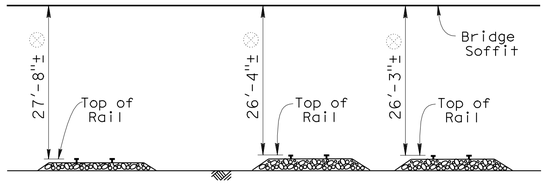
1 REVISED PER ADDENDUM No. 1 DATED MARCH 24, 2011

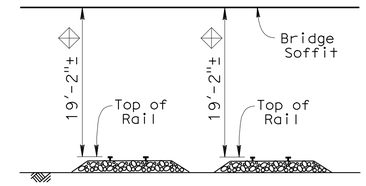


1 U.P.R.R. CLEARANCE
NO SCALE

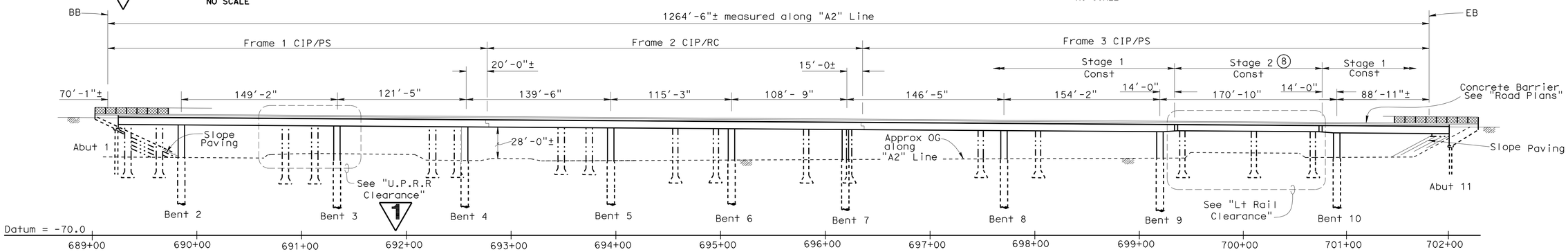
LEGEND:

Vertical clearances obtained from "AS BUILT" plans.

Based on soffit and rail elevations from survey taken in January 2011



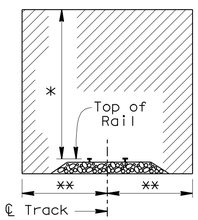
LT RAIL CLEARANCE
NO SCALE



MIRRORED ELEVATION
1" = 50'

NOTES:

1. Paint "Del Paso Park Separation & OH".
2. Paint "Br. No. 24-0193R".
3. Structure Approach Type N (30S).
4. Structure Approach Type R (30D).
5. Structure Approach Type R(30S)
6. Remove existing barrier & top of wingwall.
7. Match existing grade & cross slope.
8. Cast Span high and lower to final position.
9. Deck Drain Type D-3.

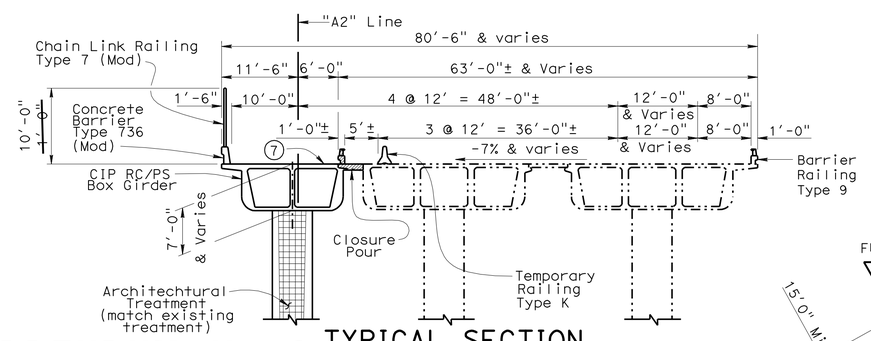


NO CONSTRUCTION ACTIVITIES OR OTHER OBSTRUCTIONS SHALL BE PLACED WITHIN THESE LIMITS

* 21'-0" For UPRR
19'-0" For RT (ADDITIONAL CLEARANCE WILL BE REQUIRED NEAR OVERHEAD ELECTRICAL LINES PER CAL/OSHA SAFETY ORDERS)

** 9'-0" For Bent 3
12'-0" For Span 3
7'-0" For Span 9

MINIMAL CONSTRUCTION CLEARANCE ENVELOPE
3/32" = 1'-0"

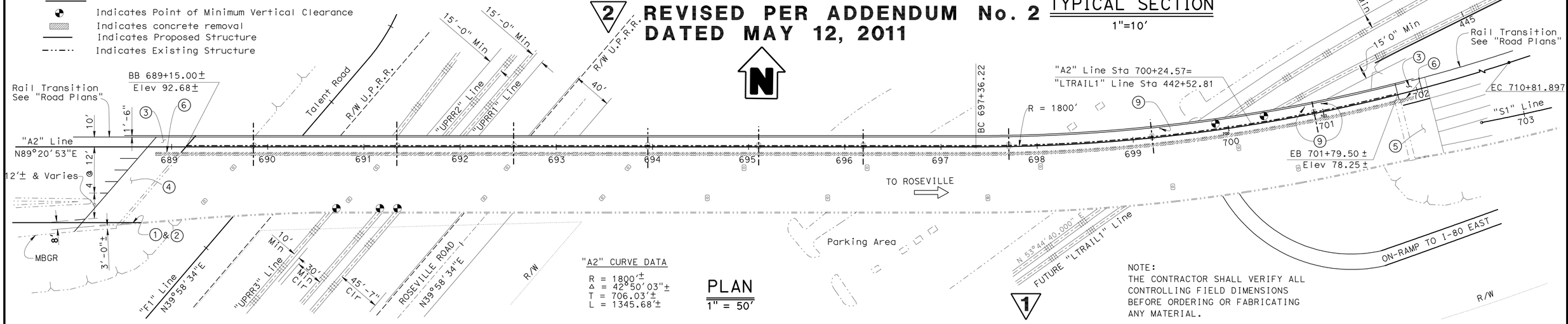


TYPICAL SECTION
1"=10'

LEGEND:

Indicates Point of Minimum Vertical Clearance
Indicates concrete removal
Indicates Proposed Structure
Indicates Existing Structure

2 REVISED PER ADDENDUM No. 2 DATED MAY 12, 2011



"A2" CURVE DATA

R = 1800'±
Δ = 42°50'03"±
T = 706.03'±
L = 1345.68'±

PLAN
1" = 50'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

X Jeff Sims, DESIGN ENGINEER	DESIGN	BY Kyoung Lee	CHECKED Asnaashari/Aquino	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
	DETAILS	BY Huddleston/Herron	CHECKED Asnaashari/Aquino/S. J.	LAYOUT: BY Kyoung Lee	CHECKED Asnaashari/Aquino
	QUANTITIES	BY Greg Thornton	CHECKED Jinrong Zhou	SPECIFICATIONS: BY James Choi	PLANS AND SPECS COMPARED James Choi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO. 24-0193R
POST MILE 9.0

DEL PASO PARK OVERHEAD (WIDEN)
GENERAL PLAN

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 03
EA 379701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 11-29-06 12-21-10 2/17/11 01-09-08 7-18-08 10-17-08 01-09-09 03-09-09 04-17-09

SHEET 1 OF 58

FILE => 24-0193r-a-gp01.add

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.07-24-06)

USERNAME => trmikes1 DATE PLOTTED => 11-MAY-2011 TIME PLOTTED => 10:40

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Sac,Yol	80	R10.9/R11.7, M0.0/M10.4	823	1012

Eric Watson 3/26/10
REGISTERED CIVIL ENGINEER DATE

9-7-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Eric Watson No. 64273 Exp. 06-30-11 CIVIL STATE OF CALIFORNIA

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LEGEND:

XXX - Indicated Bottom of Footing Elevation

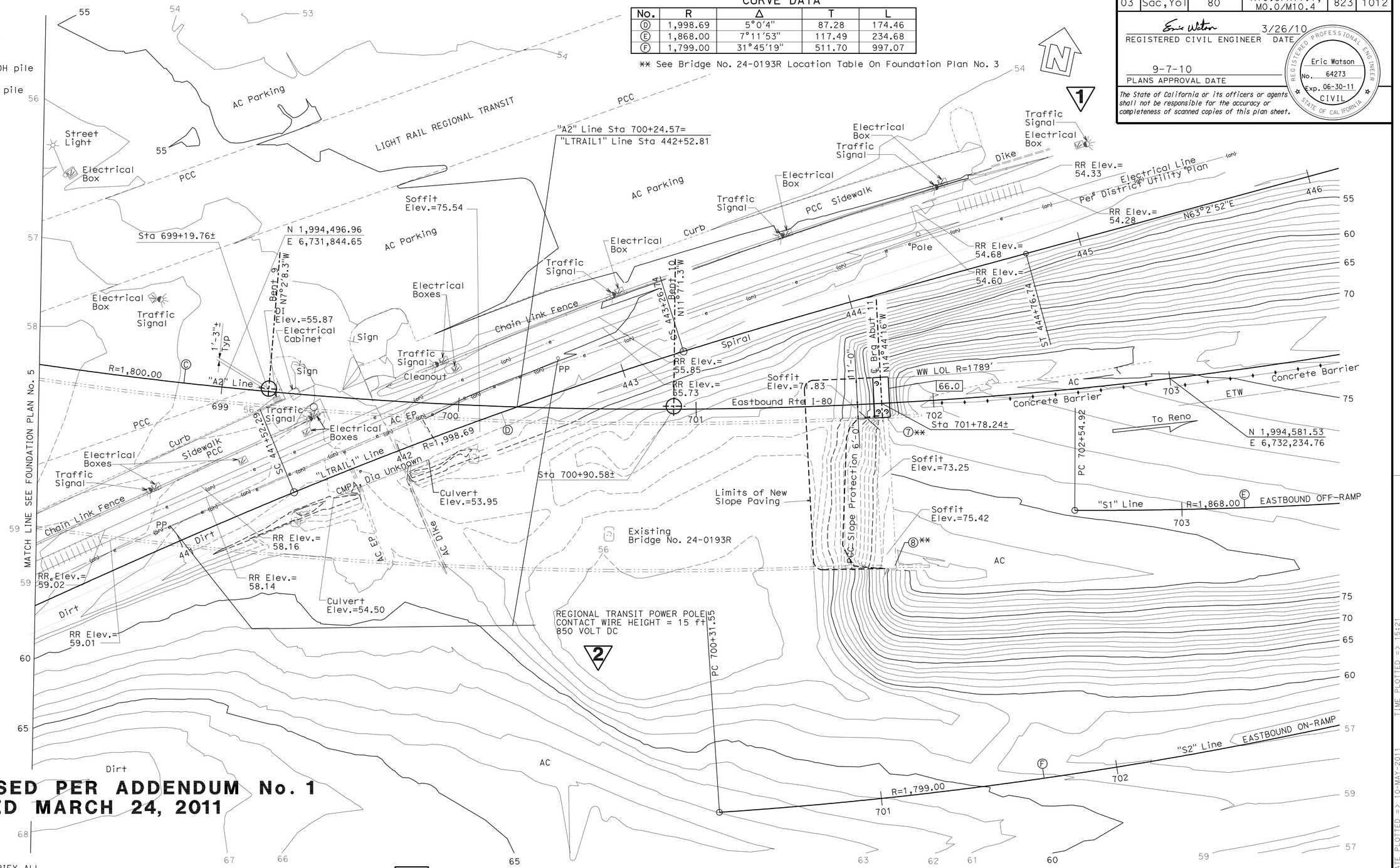
- Indicates 6'-6" Ø CIDH pile

- Indicates 16" Ø CIDH pile

CURVE DATA

No.	R	Δ	T	L
D	1,998.69	5°0'4"	87.28	174.46
E	1,868.00	7°11'53"	117.49	234.68
F	1,799.00	31°45'19"	511.70	997.07

** See Bridge No. 24-0193R Location Table On Foundation Plan No. 3



1 REVISED PER ADDENDUM No. 1 DATED MARCH 24, 2011

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

2 REVISED PER ADDENDUM No. 2 DATED MAY 12, 2011

PRELIMINARY INVESTIGATION SECTION

SCALE	VERT.DATUM NGVD29	PHOTOGRAMMETRY AS OF: X			
1"=20'	HORZ.DATUM NAD83 (1991.35)	SURVEYED	BY District/T.Mason	CHECKED	BY E.Lopez 11/2007
ALIGNMENT TIES Dist.Traverse Sheet		DRAFTED	BY T.Zolnikova 11/2007	CHECKED	BY T.Mason 11/2007

DESIGN	BY Kyoung Lee	CHECKED Asnaashari/Aquino
DETAILS	BY Jinrong Zhou	CHECKED Asnaashari/Aquino
QUANTITIES	BY Greg Thornton	CHECKED Jinrong Zhou

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO. 24-0193R
POST MILE 8.9

DEL PASO PARK OVERHEAD (WIDEN)
FOUNDATION PLAN NO. 3

STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 03
EA 379701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 12/19/07 7/9/08 7/9/08 01/06/09 03/15/09 3/24/10

SHEET 5 OF 58

FILE => 24-0193r-e-fp103.add

USERNAME => s135318 DATE PLOTTED => 10-MAY-2011 TIME PLOTTED => 15:21