

# I-15 CORRIDOR PROJECT PA/ED



EA 08-OR8000 | Project Number 0812000184

08-Riv-015-PM 49.8 / 52.3 and 08-SBd-015 PM 0.0 / 12.2

## PROJECT REPORT (ATTACHMENTS D and E) VOLUME II





**ATTACHMENT D**  
**Conceptual Layouts**



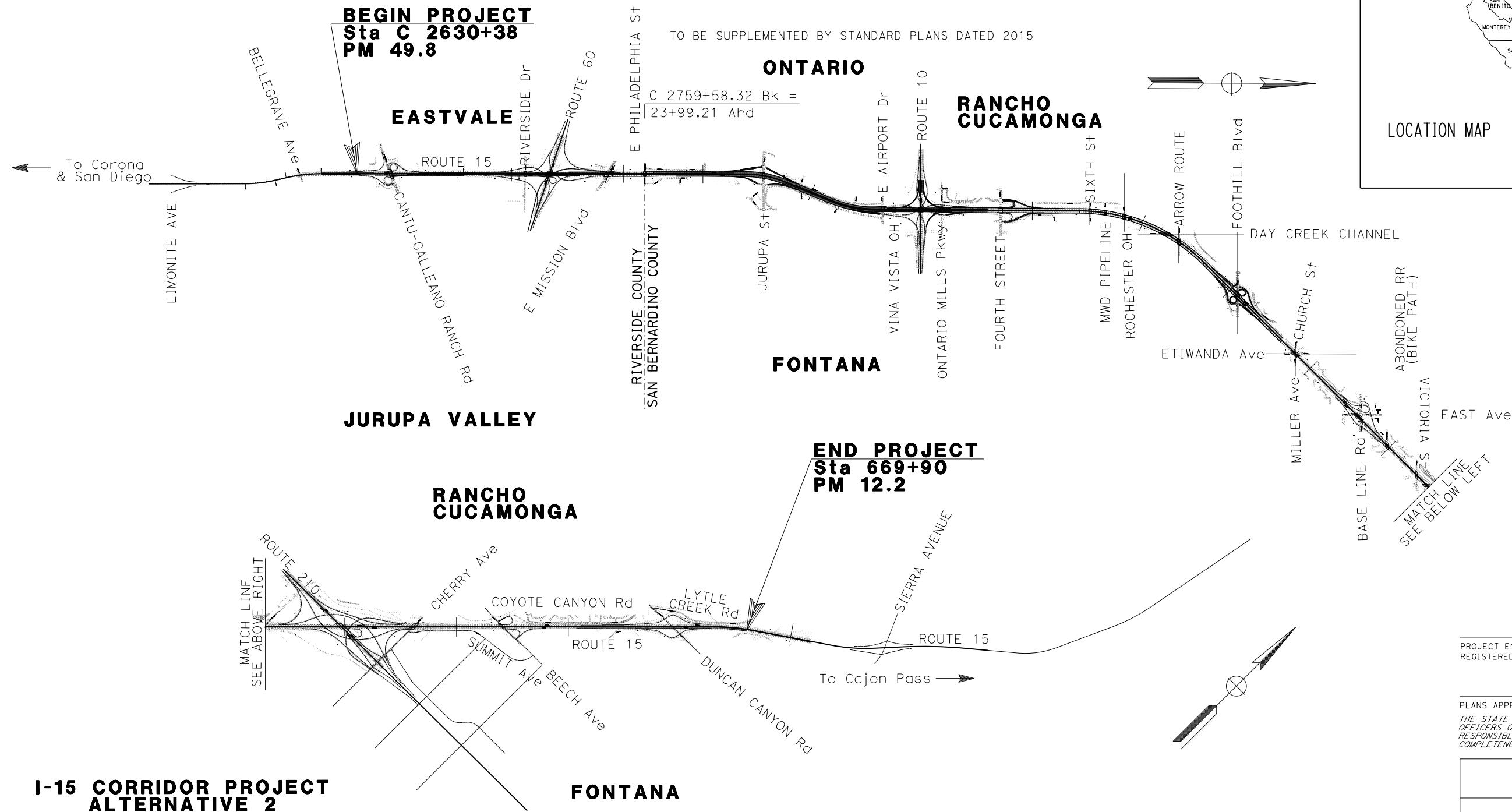
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 PROJECT PLANS FOR CONSTRUCTION ON  
 STATE HIGHWAY

IN RIVERSIDE AND SAN BERNARDINO COUNTIES  
 FROM 0.3 MILE SOUTH OF CANTU-GALLEANO RANCH ROAD  
 TO 1.2 MILES NORTH OF DUNCAN CANYON ROAD

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SbD	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		

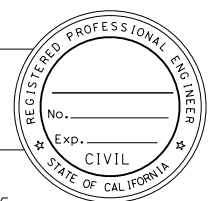
APPROVED AS TO IMPACT ON STATE FACILITIES AND CONFORMANCE WITH APPLICABLE STATE STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED.  
 DATE SIGNED \_\_\_\_\_  
 LICENSE Exp DATE \_\_\_\_\_  
 REGISTRATION No. \_\_\_\_\_  
 CALTRANS DESIGN OVERSIGHT APPROVAL \_\_\_\_\_  
 CONSULTANT DESIGN MANAGER \_\_\_\_\_



**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 EXPRESS LANES**  
 NO SCALE

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

PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
 REGISTERED CIVIL ENGINEER

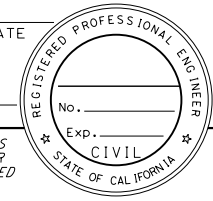


PLANS APPROVAL DATE \_\_\_\_\_  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	<b>EA-0R800</b>
PROJECT ID	<b>0812000184</b>

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
<b>Stantec</b>		CHECKED BY	DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
<small>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.</small>					
WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		



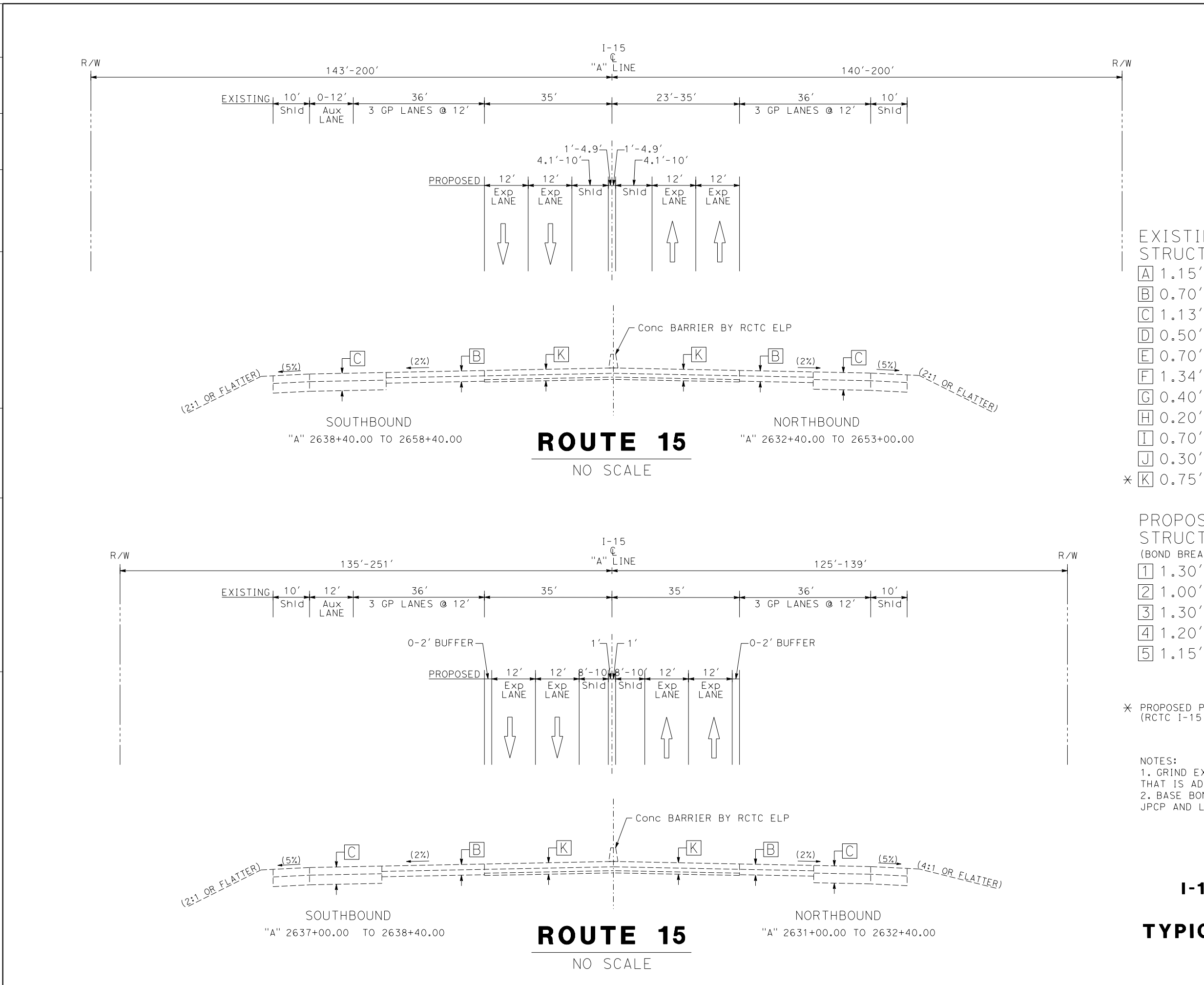
**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2 - EXPRESS LANES**

**KEY MAP AND LINE INDEX**  
NO SCALE

**K-1**

LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 11:15

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



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

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- EXISTING PAVEMENT STRUCTURAL SECTIONS**
- [A] 1.15' JPCP / 0.1 HMA / 0.50' LCB
  - [B] 0.70' PCC / 0.35' RMCTB
  - [C] 1.13' PCC / 0.50' AC
  - [D] 0.50' AC / 0.70' CLASS 2 AB
  - [E] 0.70' PCC / 0.40' RMCTB
  - [F] 1.34' JPCP / 0.50' LCB
  - [G] 0.40' DGAC / 0.38' AC
  - [H] 0.20' AC / 0.90' CLASS 2 AB
  - [I] 0.70' PCC / 0.40' LCB
  - [J] 0.30' AC / 0.80' CLASS 2 AB
  - \* [K] 0.75' JPCP / 0.35' LCB / 0.60' AS

- PROPOSED PAVEMENT STRUCTURAL SECTIONS**  
 (BOND BREAKER TO BE ADDED BETWEEN JPCP AND LCB)
- [1] 1.30' JPCP / 0.35' LCB / 0.70' AS
  - [2] 1.00' JPCP / 0.35' LCB / 0.70' AS
  - [3] 1.30' JPCP / 0.35' LCB
  - [4] 1.20' JPCP / 0.35' LCB / 0.70' AS
  - [5] 1.15' JPCP / 0.35' LCB / 0.70' AS

\* PROPOSED PAVEMENT STRUCTURAL SECTIONS BY OTHERS (RCTC I-15 EXPRESS LANES PROJECT - EA 08-0J0800)

**NOTES:**

1. GRIND EXISTING CONCRETE PAVEMENT (FULL WIDTH) THAT IS ADJACENT TO THE NEW LANE.
2. BASE BOND BREAKER SHOULD BE PROVIDED BETWEEN JPCP AND LCB.

**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 TYPICAL CROSS SECTIONS**  
 NO SCALE

**X-1**

LAST REVISION    DATE PLOTTED => 23-AUG-2018  
 00-00-00    TIME PLOTTED => 14:26

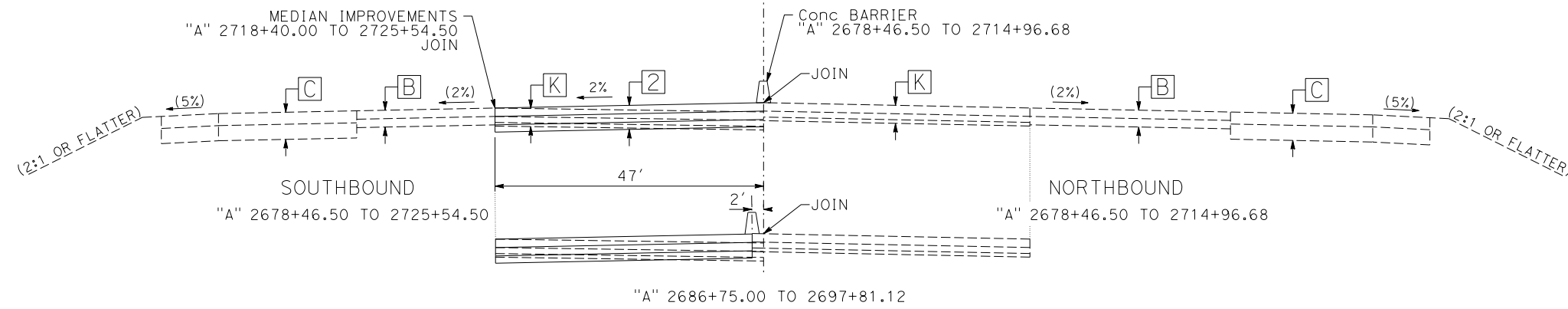
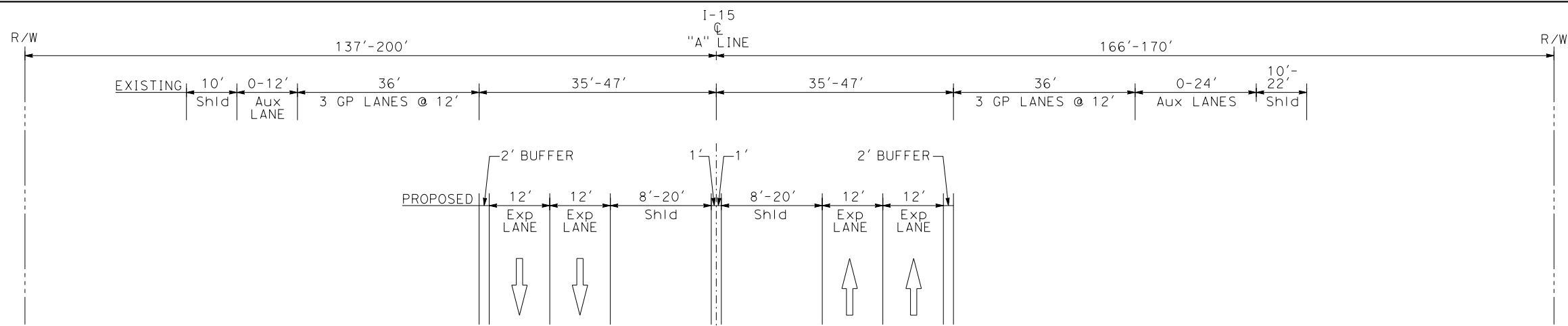
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PLANS APPROVAL DATE	

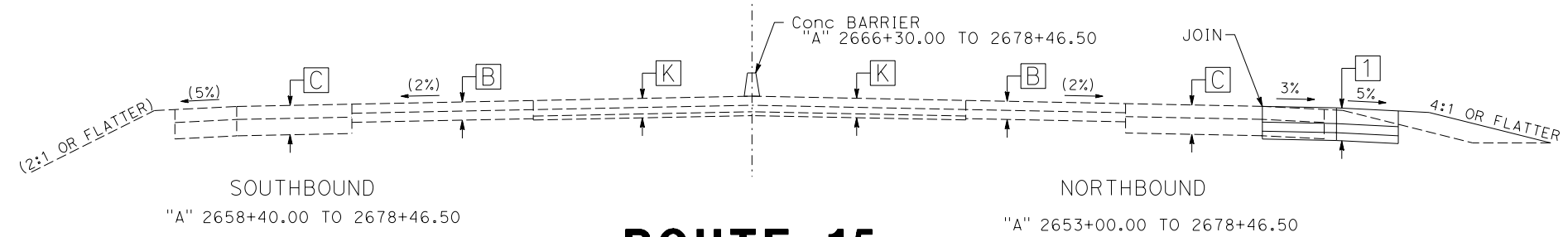
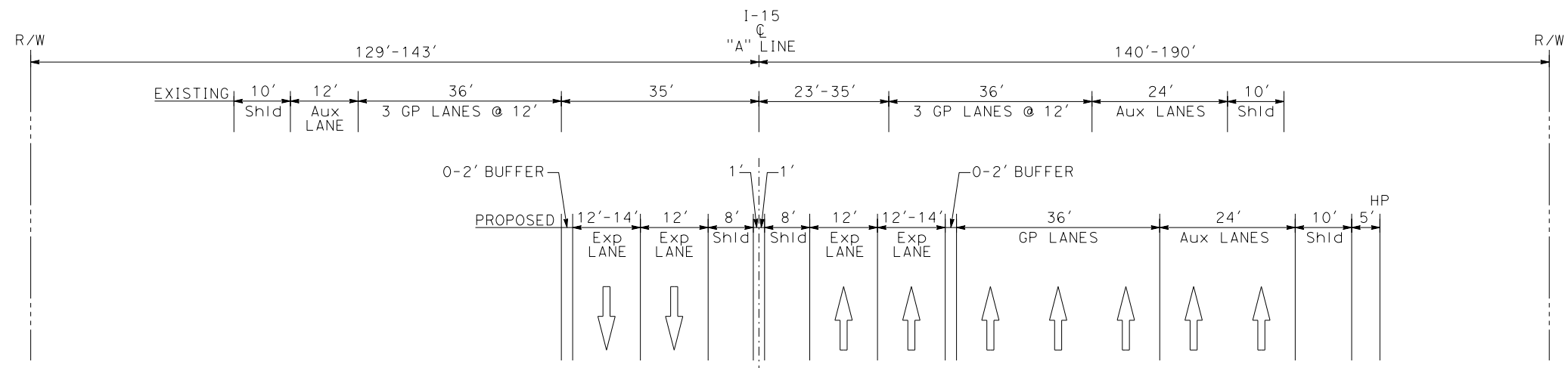
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**ROUTE 15**

NO SCALE



**ROUTE 15**

NO SCALE

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS**

NO SCALE

**X-2**

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

REVISED BY  
DATE REVISED

CALCULATED-DESIGNED BY  
CHECKED BY

FUNCTIONAL SUPERVISOR

DATE PLOTTED => 23-AUG-2018  
TIME PLOTTED => 14:26

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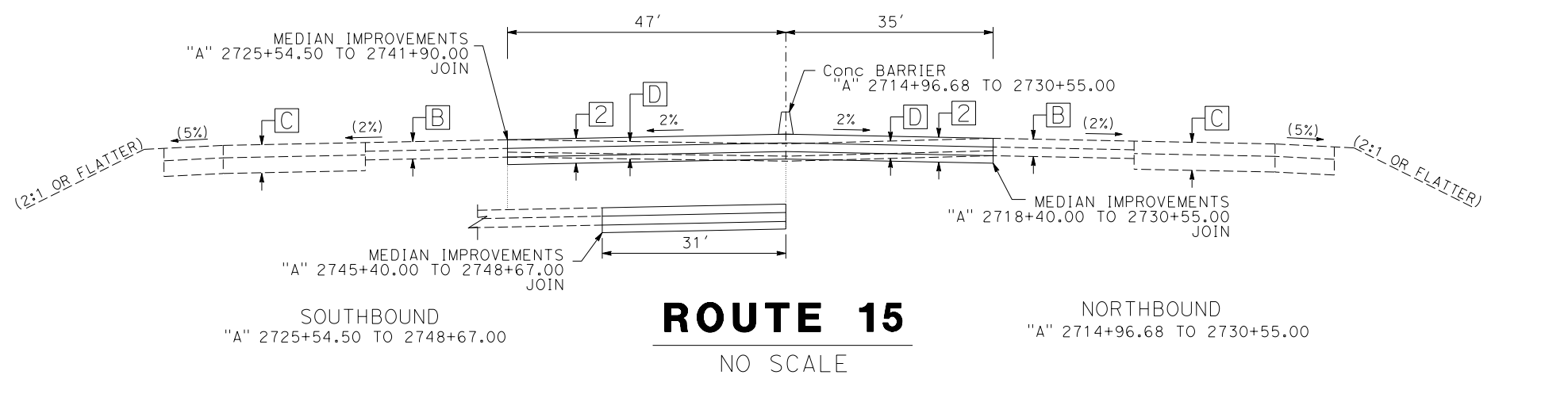
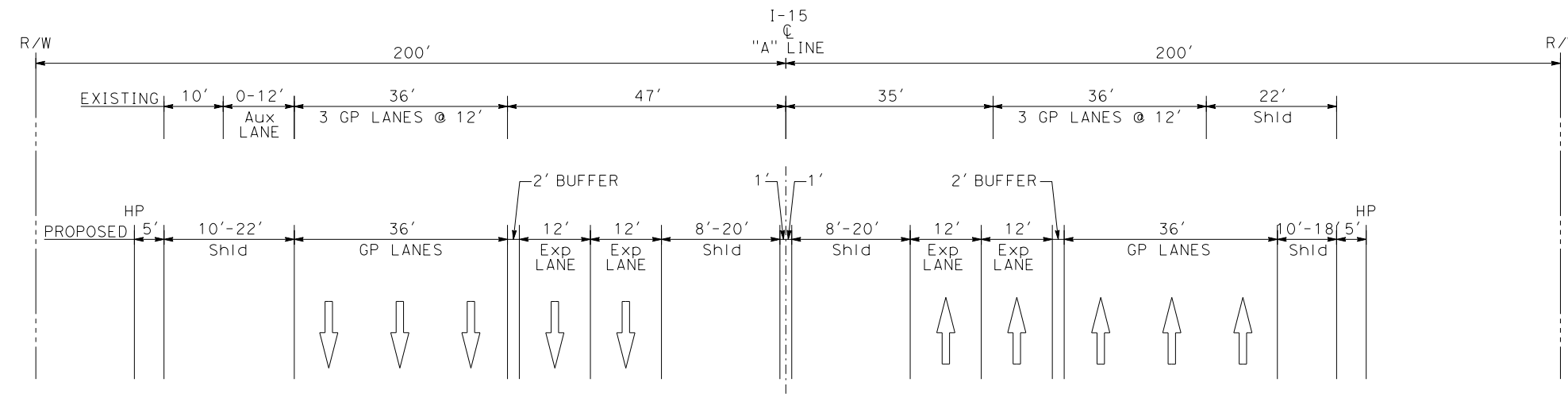
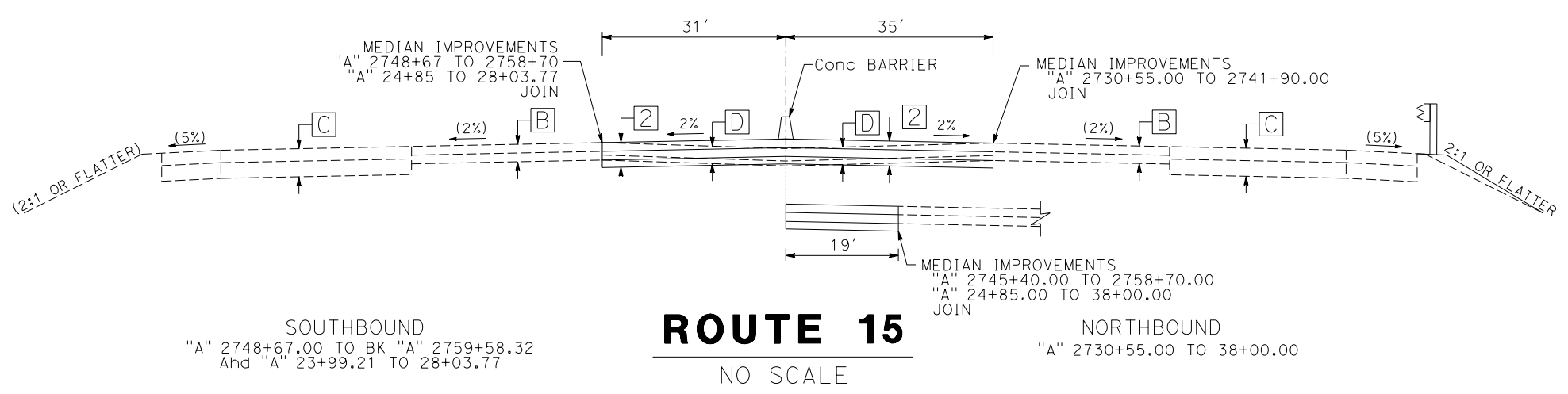
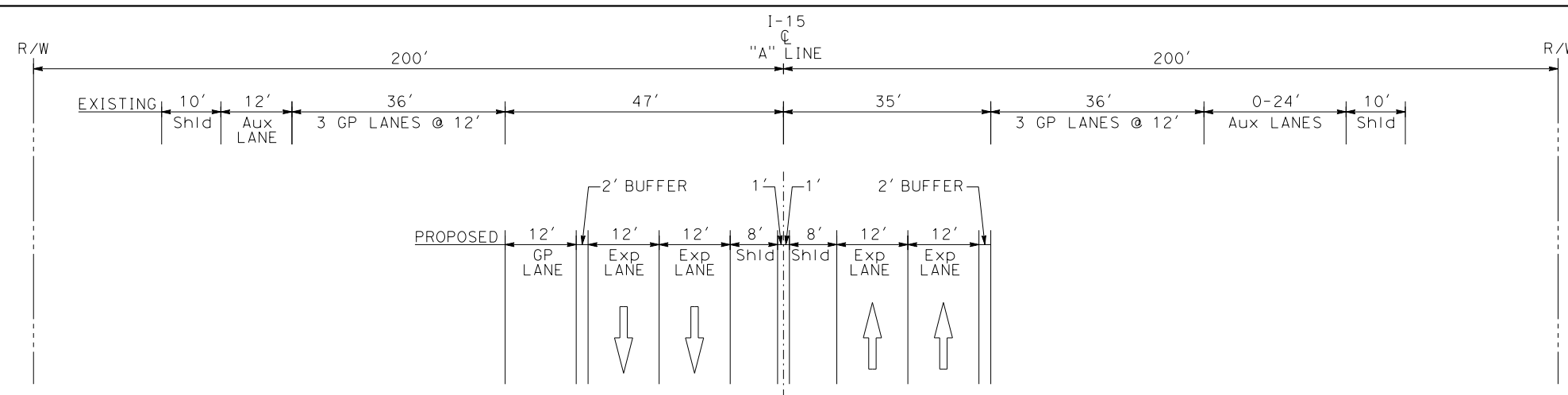
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**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS  
NO SCALE  
X-3**

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

LAST REVISION DATE PLOTTED => 23-AUG-2018  
 00-00-00 TIME PLOTTED => 14:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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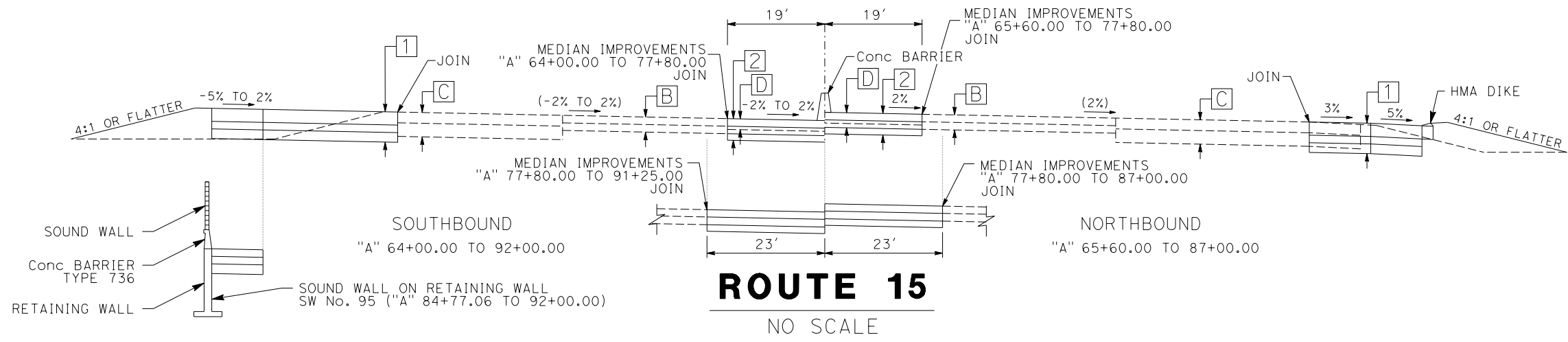
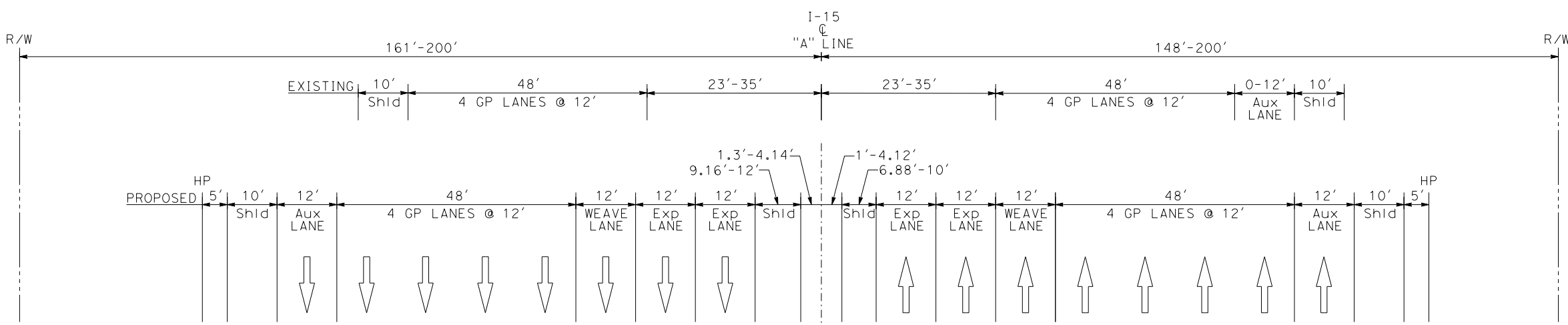
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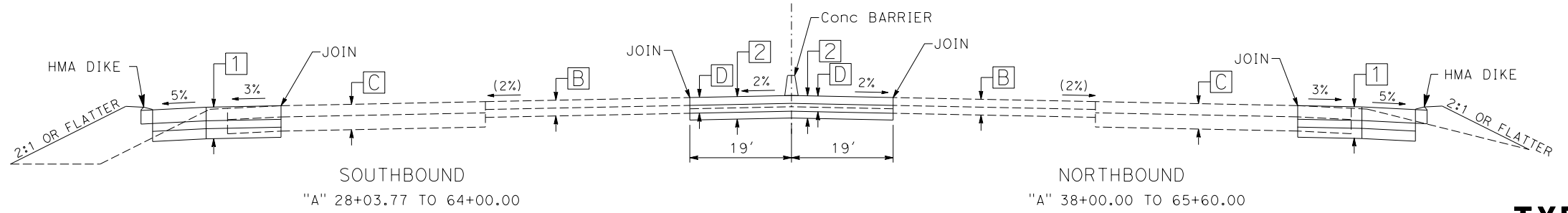
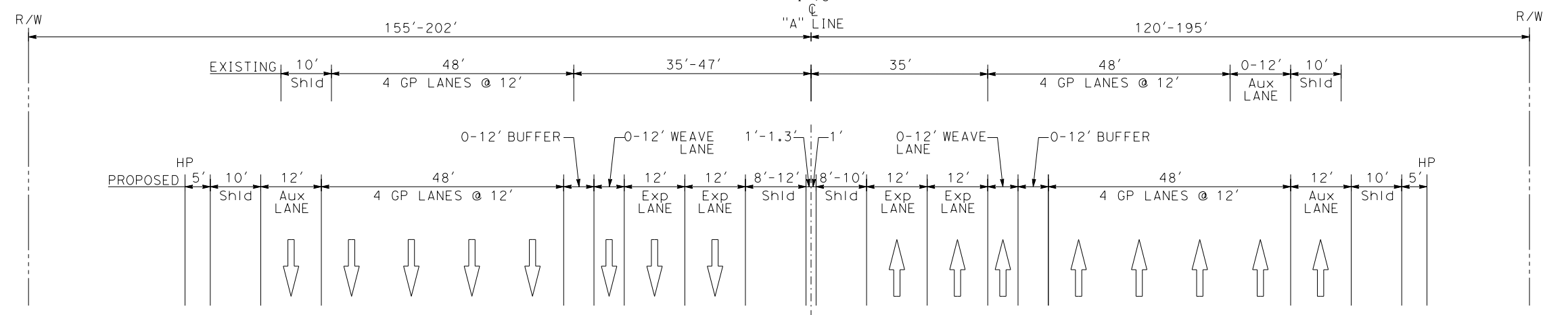
  

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**ROUTE 15**

NO SCALE



**ROUTE 15**

NO SCALE

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS**

**X-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Et Caltrans  
 REVISIONS: 00-00-00 TIME PLOTTED => 14:26  
 00-00-00 DATE PLOTTED => 23-AUG-2018

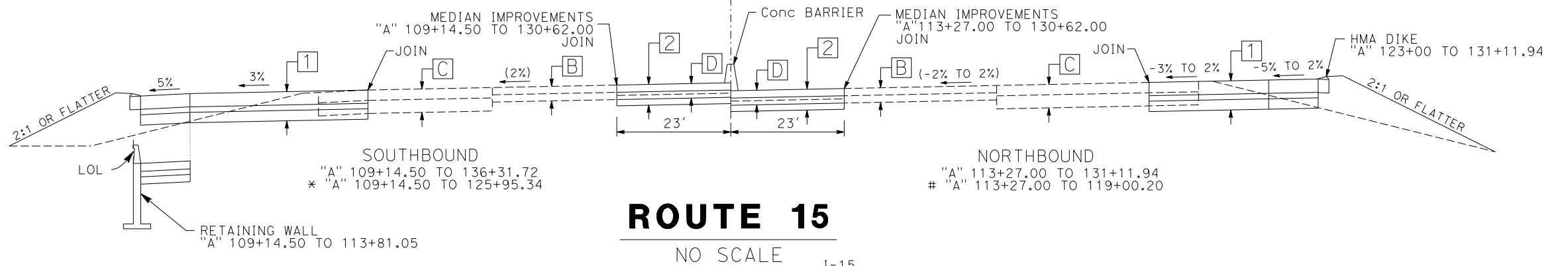
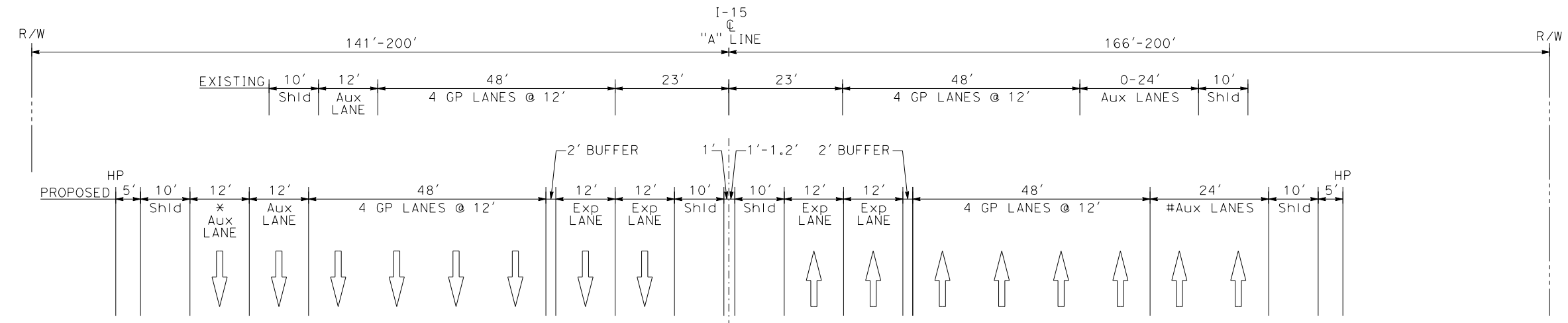
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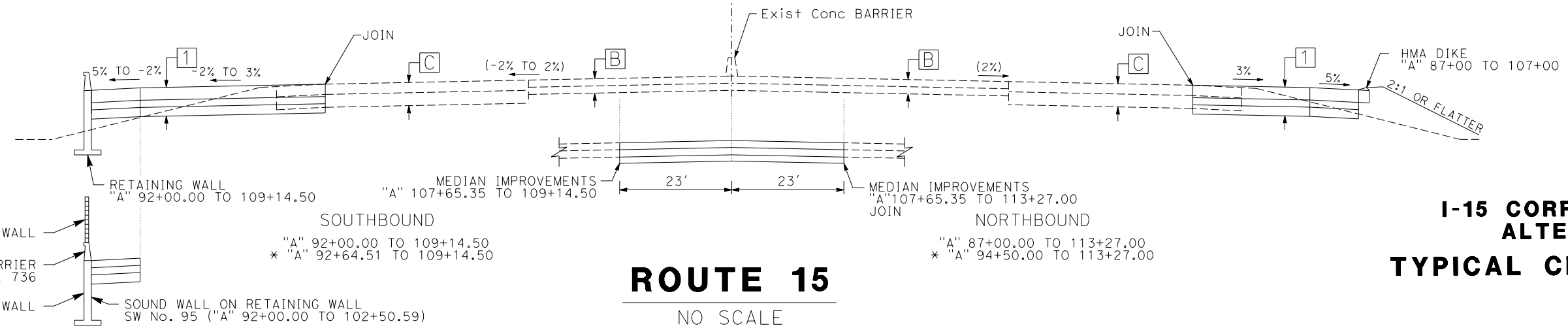
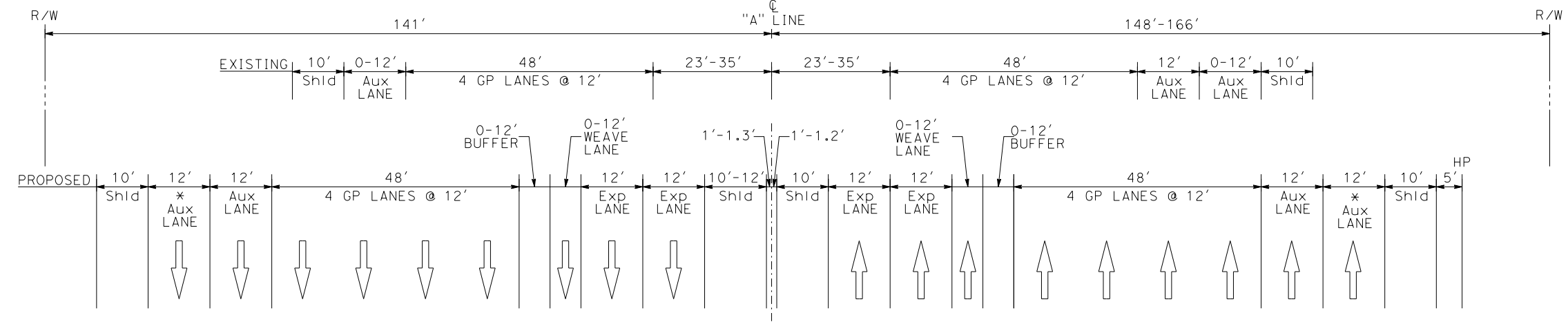
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**ROUTE 15**  
NO SCALE



**ROUTE 15**  
NO SCALE

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS  
NO SCALE  
X-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans

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DATE REVISED

CALCULATED-DESIGNED BY  
CHECKED BY

FUNCTIONAL SUPERVISOR

DEPARTMENT OF TRANSPORTATION

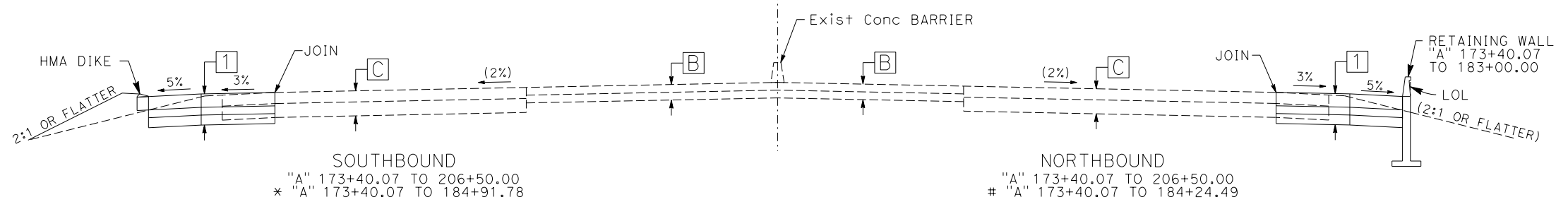
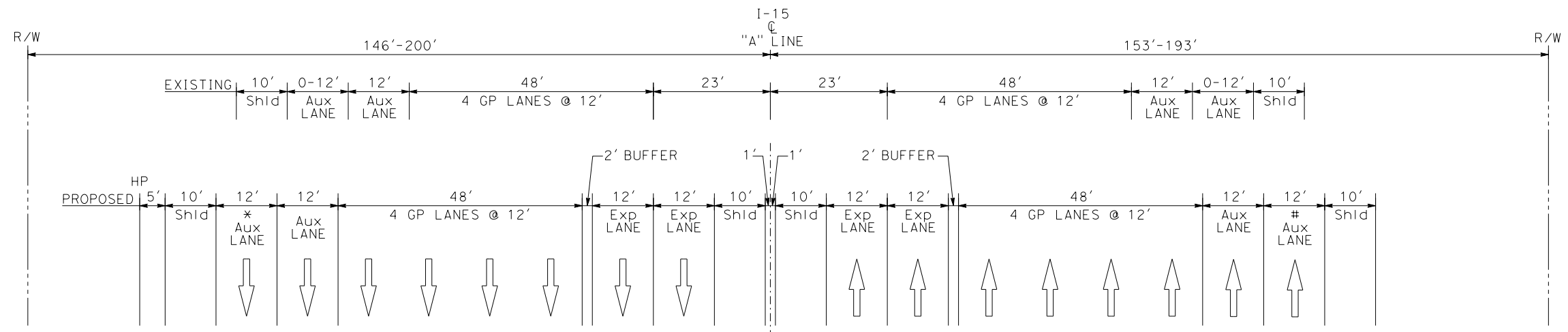
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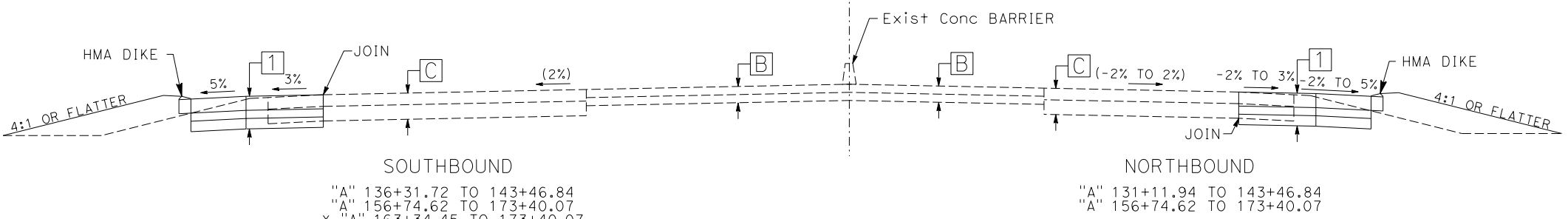
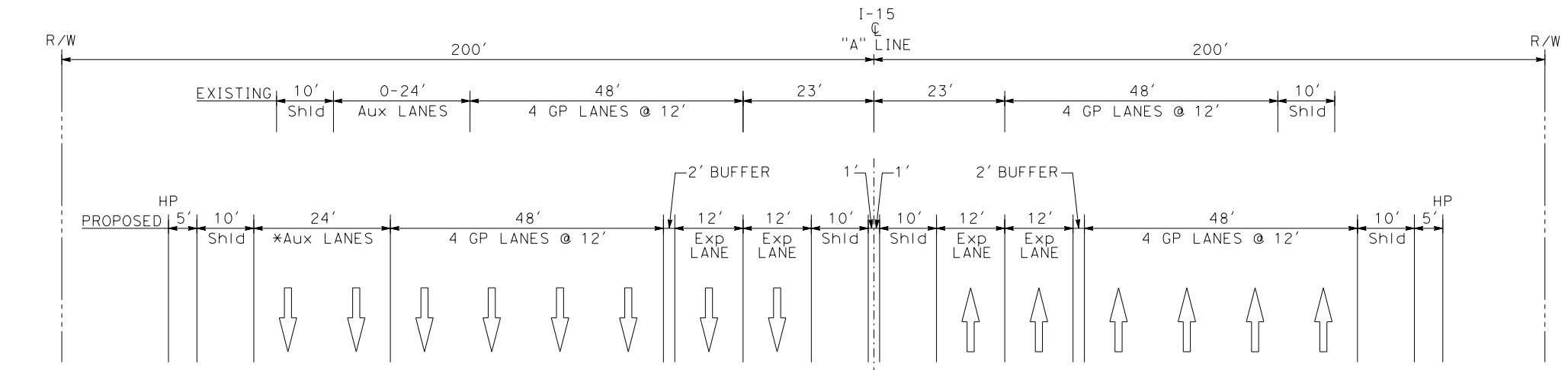
  

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**ROUTE 15**

NO SCALE



**ROUTE 15**

NO SCALE

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS**

NO SCALE

**X-6**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Et Caltrans  
 REVISIONS: 00-00-00 TIME PLOTTED => 14:26



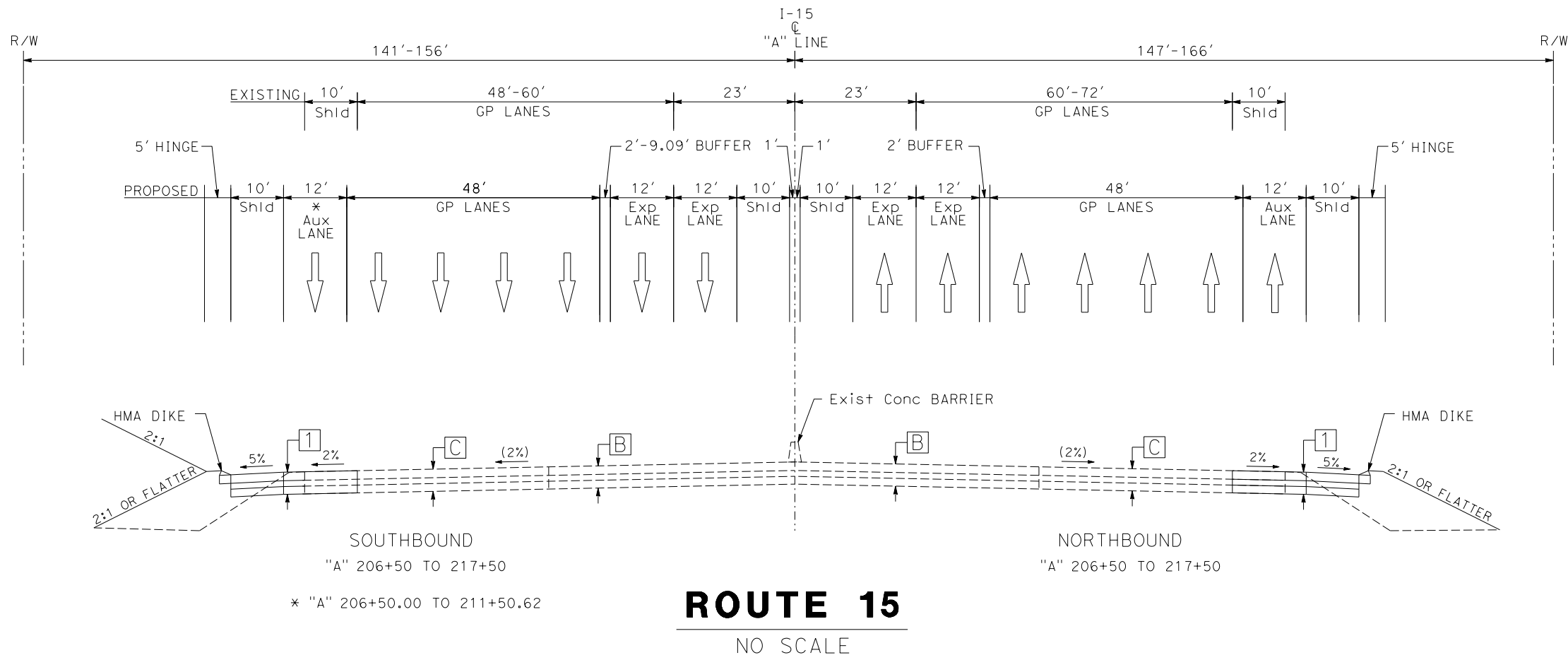
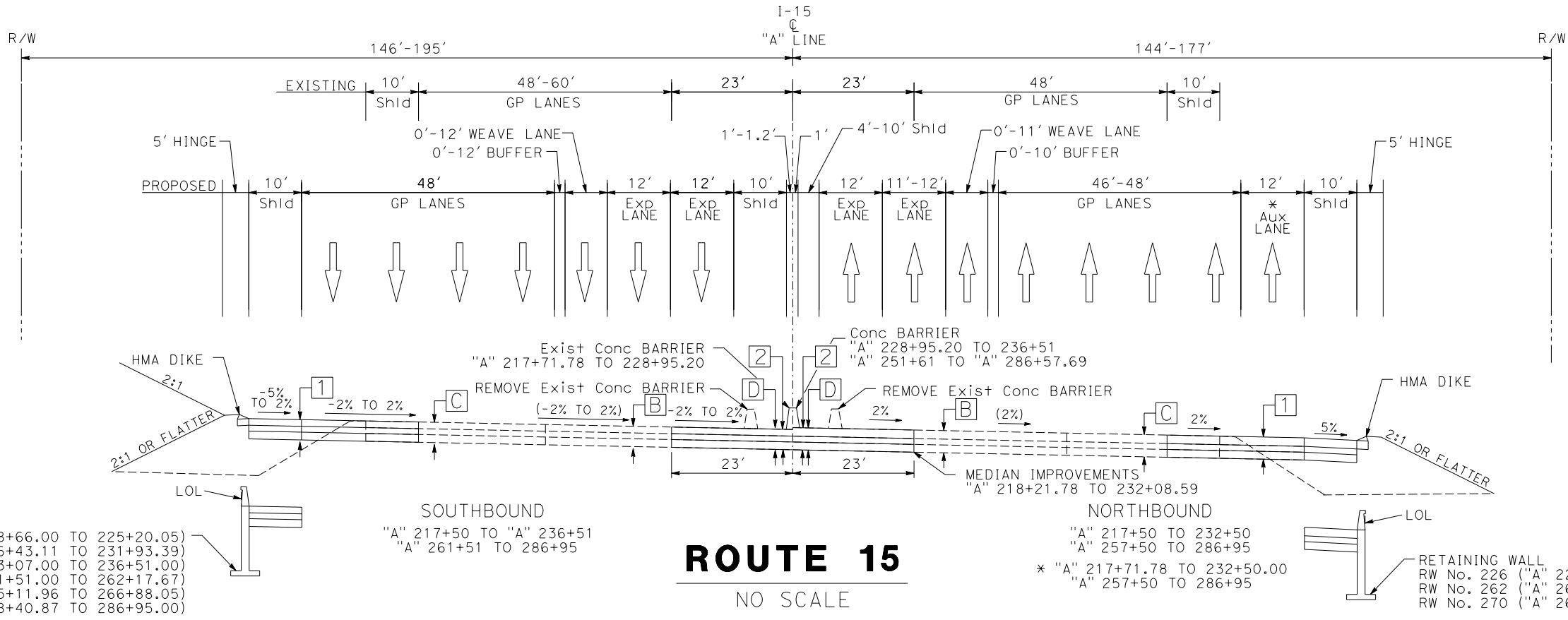
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WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408	SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410
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**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS**  
NO SCALE

**X-7**

REVISIONS

NO.	DATE	BY	REASON
1			
2			
3			
4			
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7			
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9			

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

LAST REVISION DATE PLOTTED => 23-AUG-2018  
00-00-00 TIME PLOTTED => 14:26

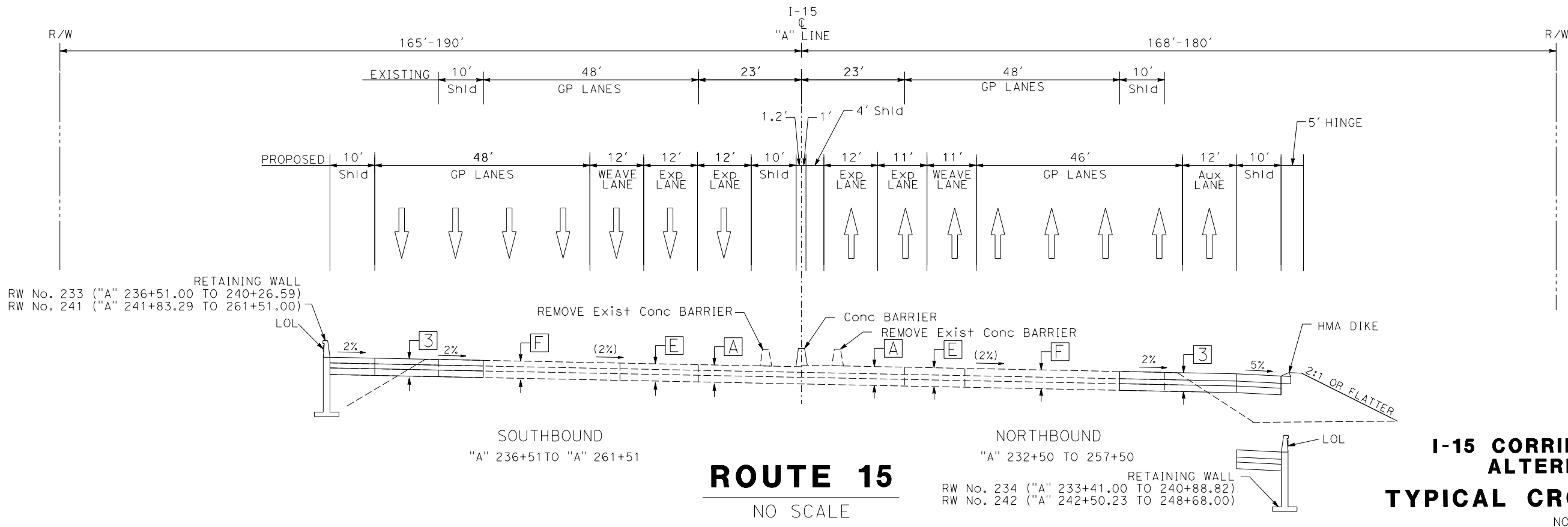
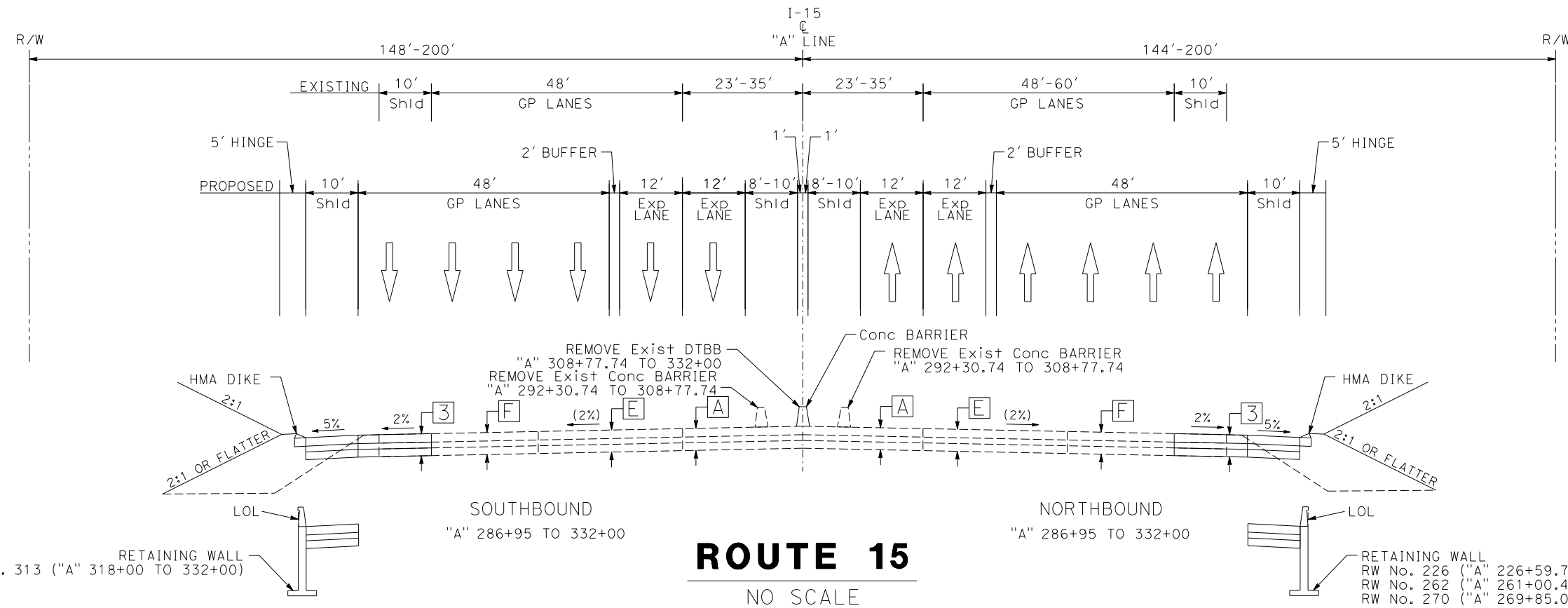
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**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS**  
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Et Caltrans

REVISOR: [ ]  
DATE: [ ]

FUNCTIONAL SUPERVISOR: [ ]

CALCULATED-DESIGNED BY: [ ]  
CHECKED BY: [ ]

LAST REVISION: [ ] DATE PLOTTED => 23-AUG-2018  
00-00-00 TIME PLOTTED => 14:27

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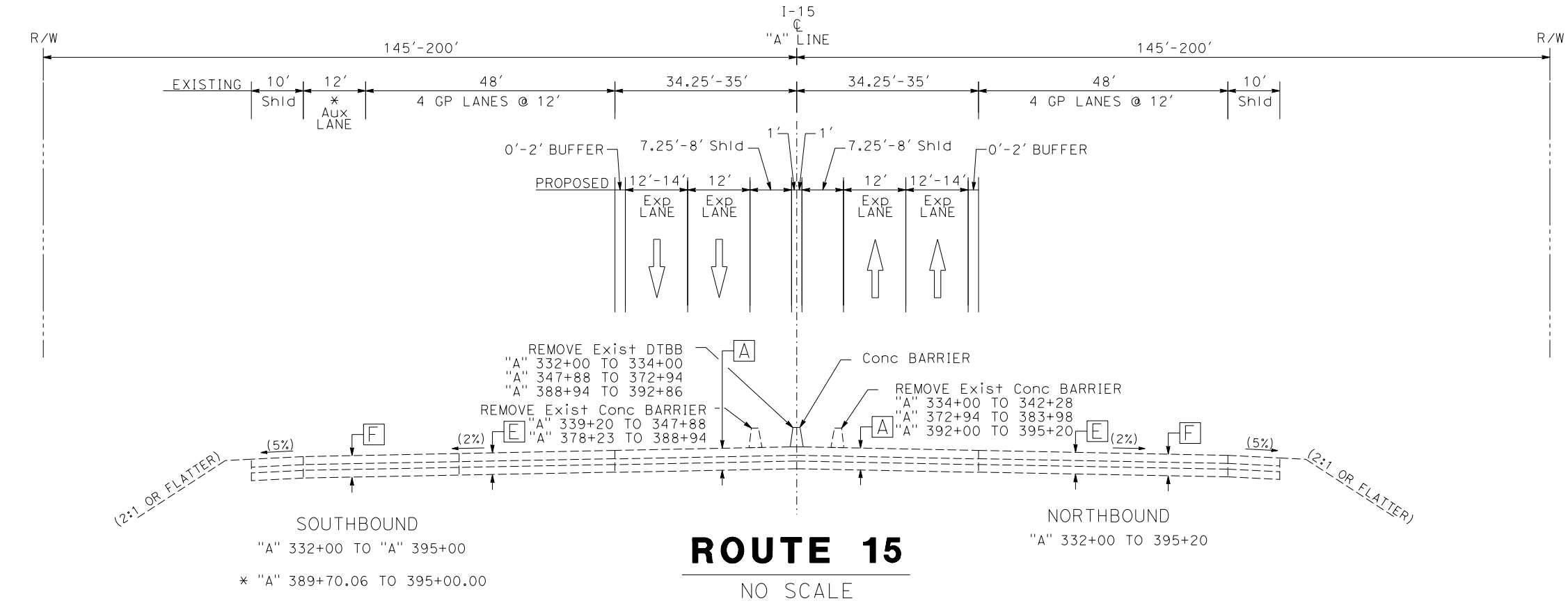
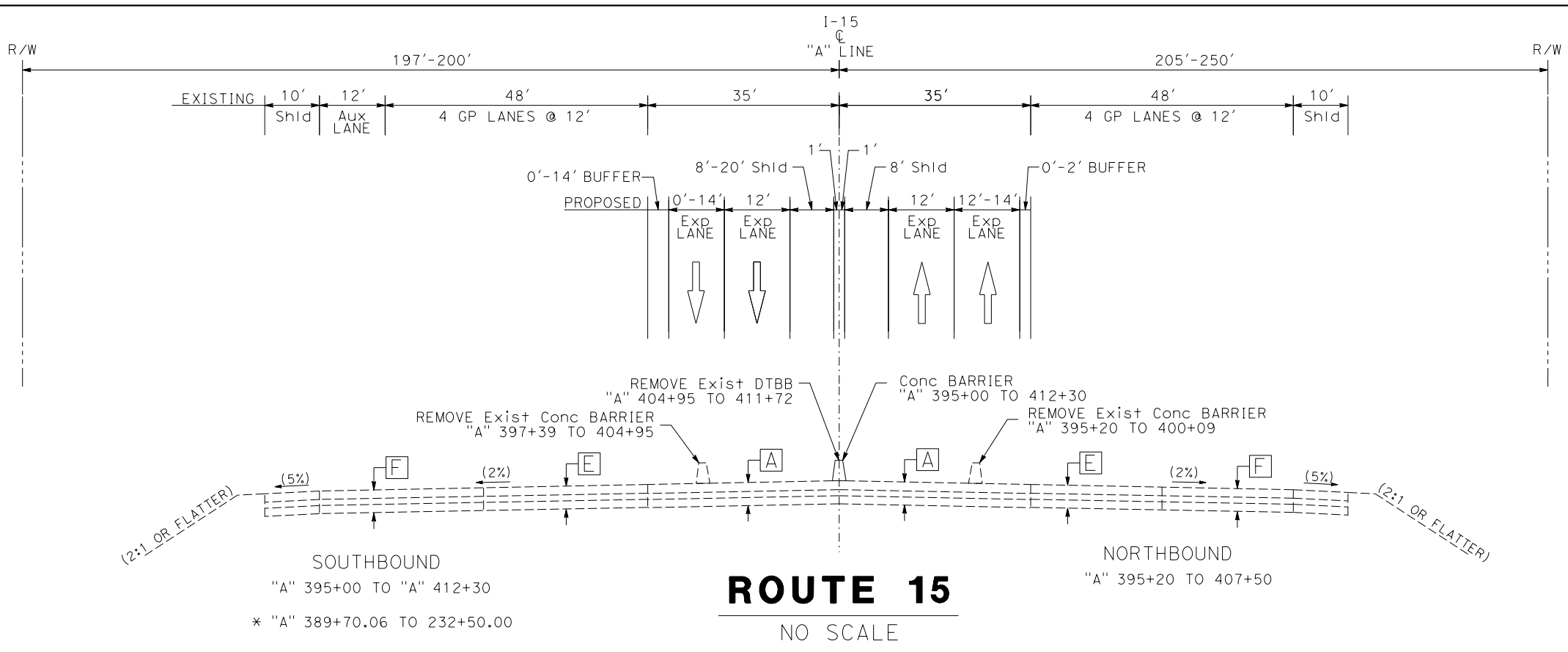
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**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS**  
NO SCALE  
**X-9**

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

REVISOR BY DATE  
CALCULATED-DESIGNED BY CHECKED BY

FUNCTIONAL SUPERVISOR

BORDER LAST REVISED 7/2/2010

LAST REVISION DATE PLOTTED => 23-AUG-2018  
00-00-00 TIME PLOTTED => 14:27

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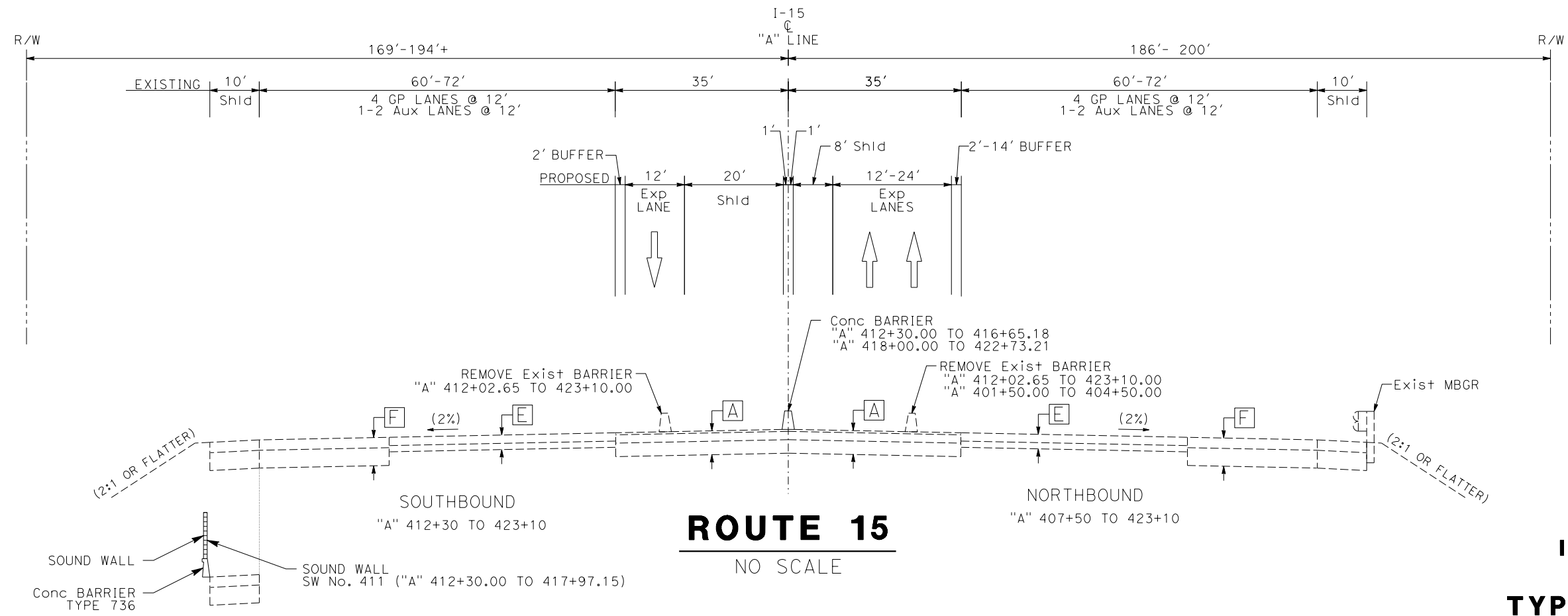
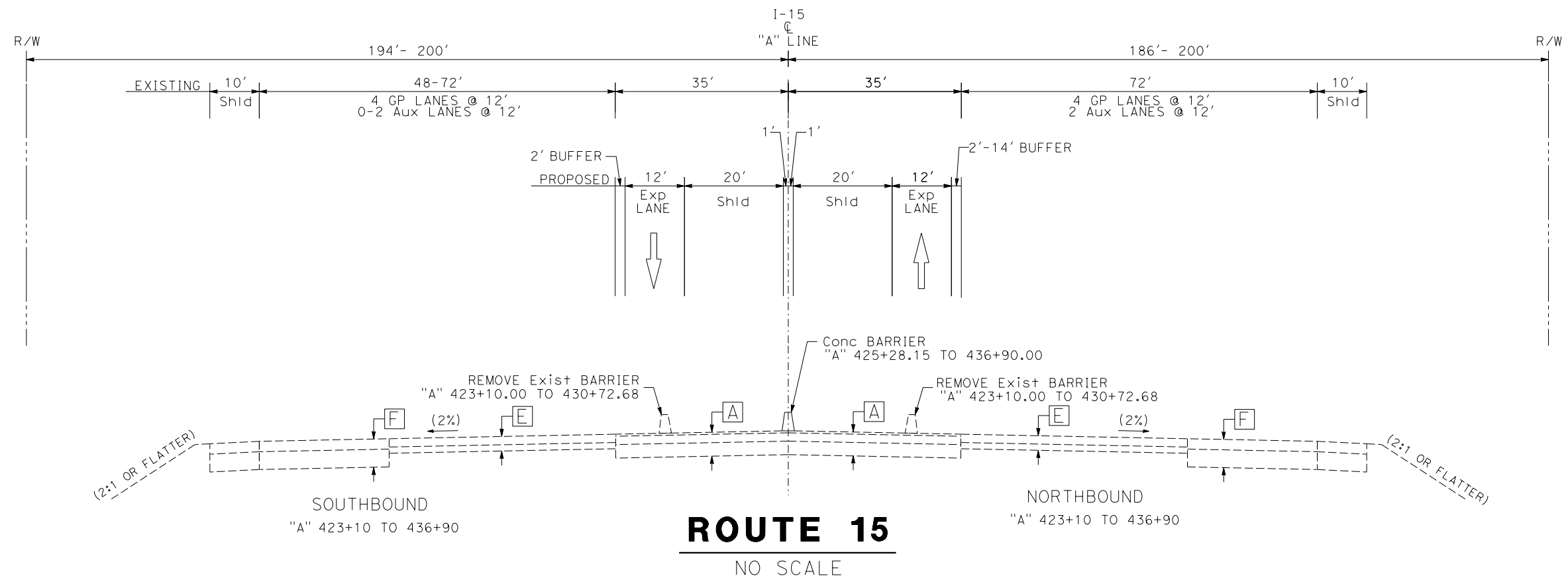
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**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS  
NO SCALE  
X-10**

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

REVISOR: [ ]  
DATE: [ ]

DESIGNER: [ ]  
DATE: [ ]

CHECKED BY: [ ]

FUNCTIONAL SUPERVISOR: [ ]

LAST REVISION: [ ] DATE PLOTTED => 23-AUG-2018  
00-00-00 TIME PLOTTED => 14:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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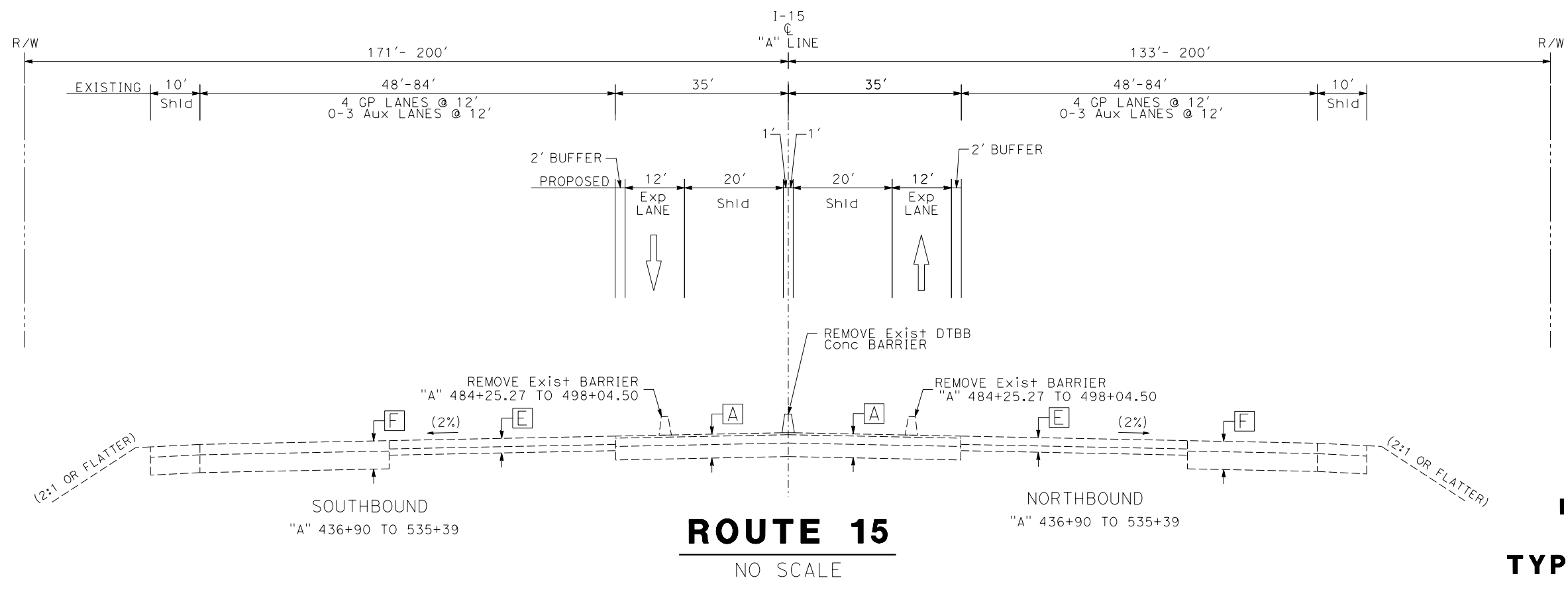
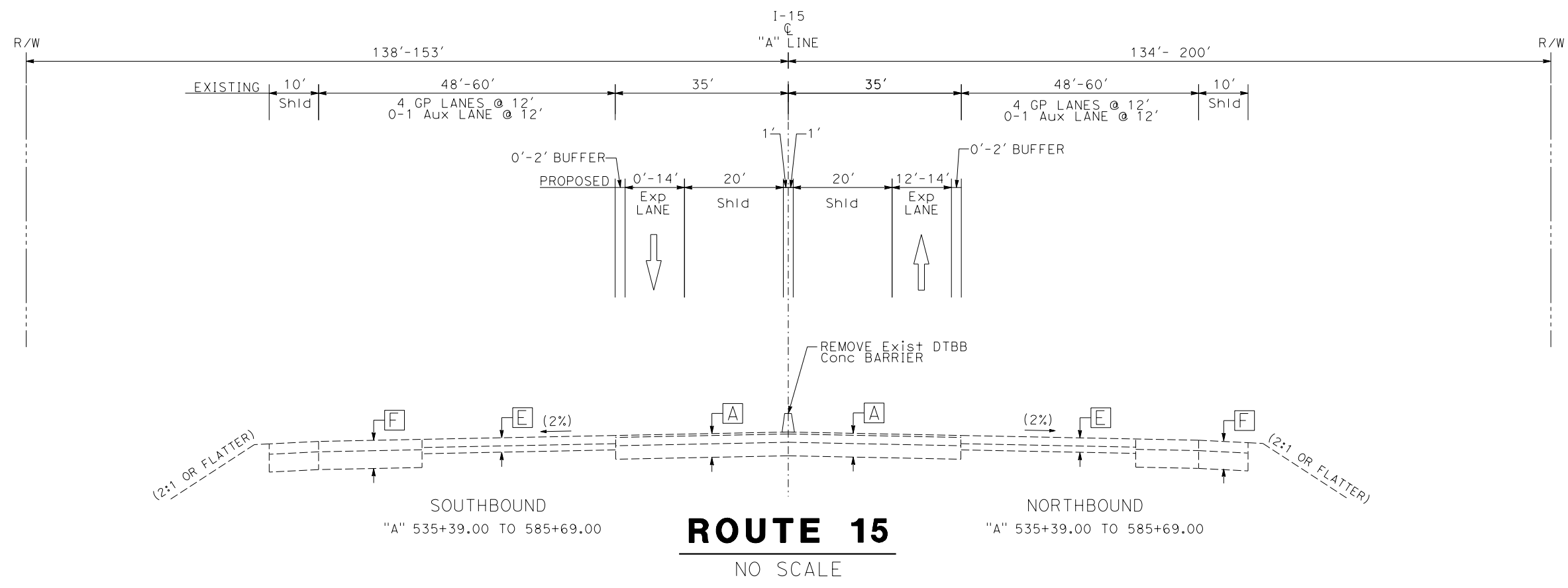
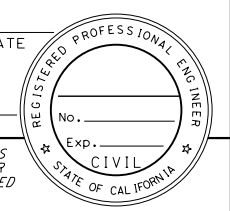
  

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**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS**  
NO SCALE

**X-11**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
<b>Caltrans</b>
FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
CHECKED BY
REVISOR
DATE

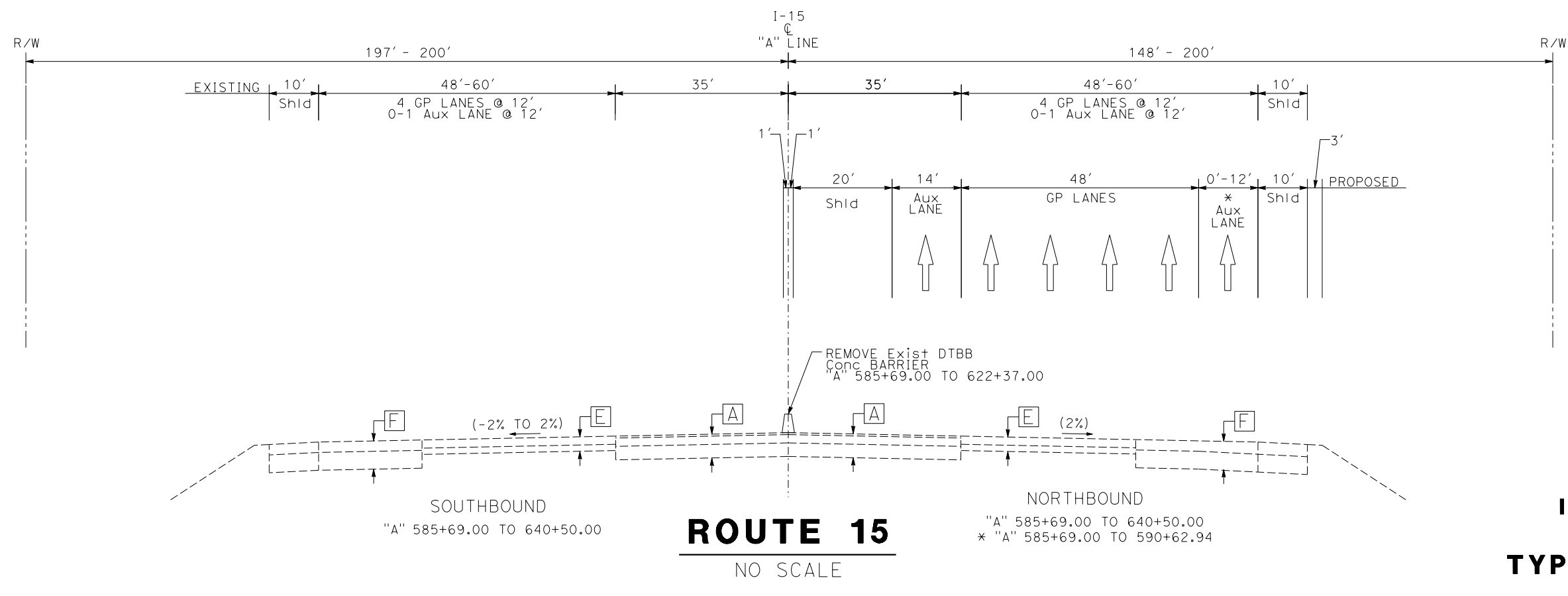
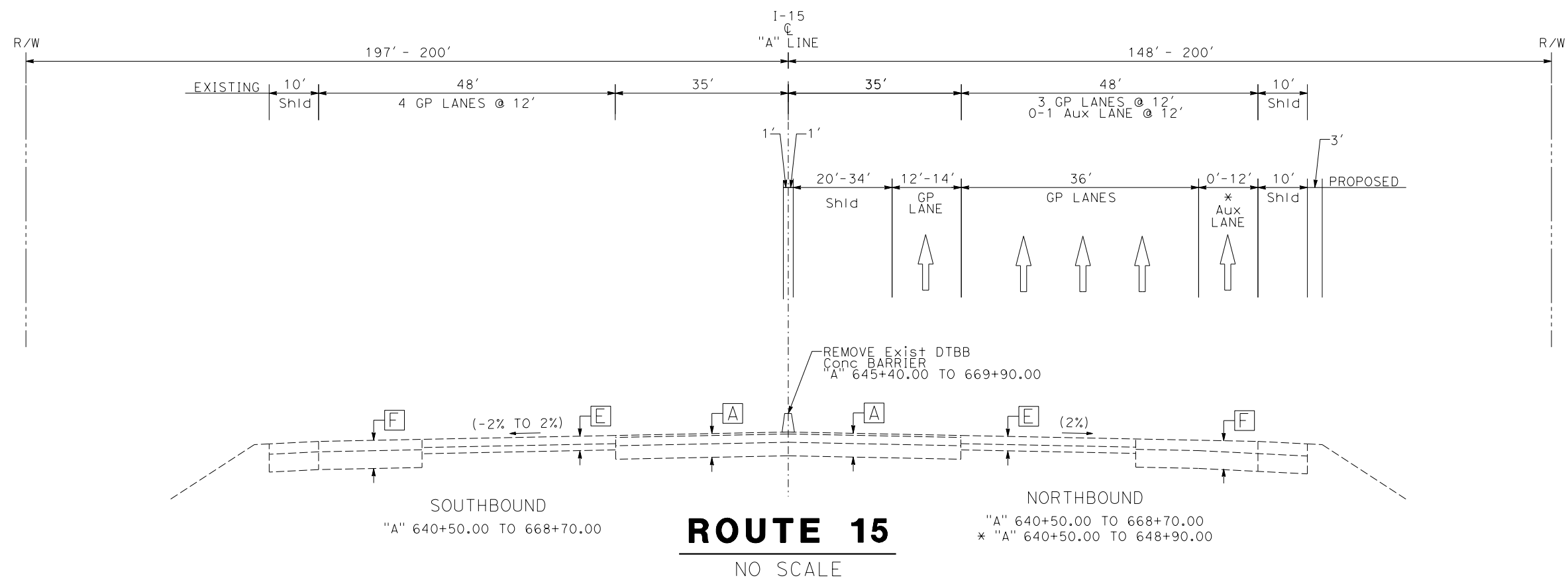
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REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

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.

WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408	SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410
--	---



**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS**  
NO SCALE

**X-12**

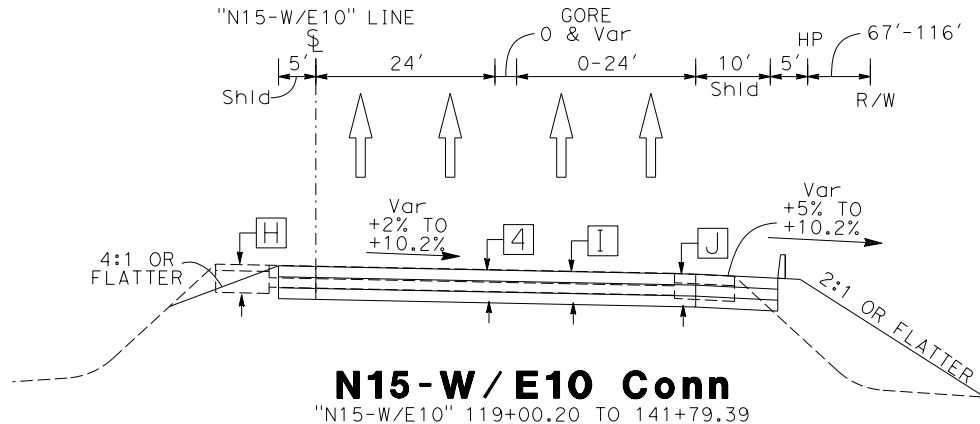
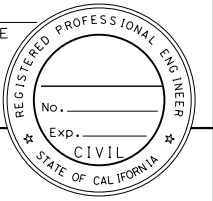
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

REVISOR BY DATE  
CALCULATED-DESIGNED BY CHECKED BY

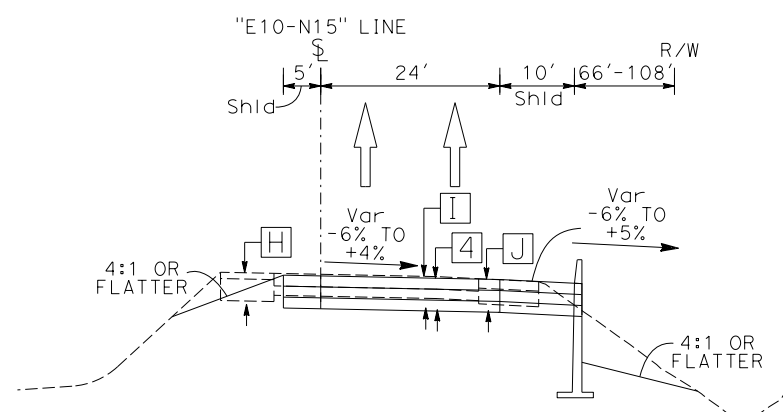
LAST REVISION DATE PLOTTED => 23-AUG-2018  
00-00-00 TIME PLOTTED => 14:39



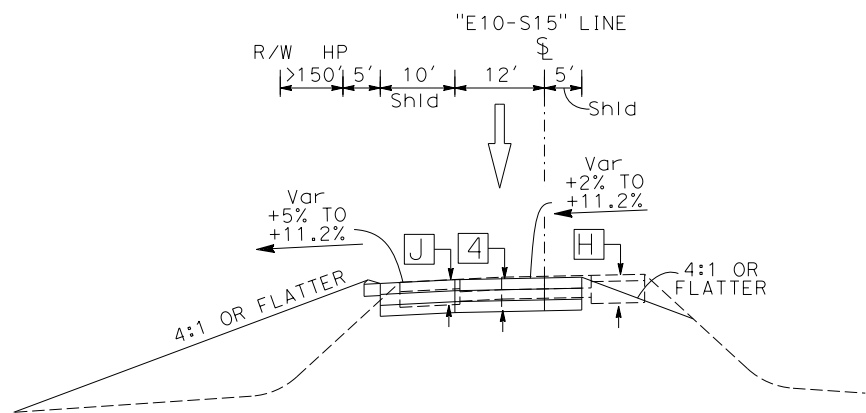
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		



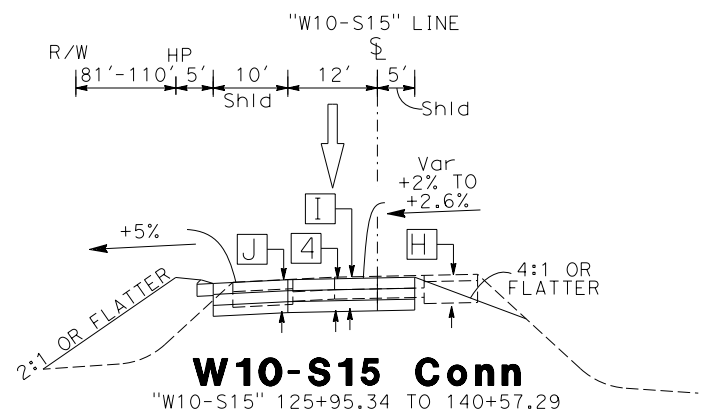
**N15-W/E10 Conn**  
"N15-W/E10" 119+00.20 TO 141+79.39



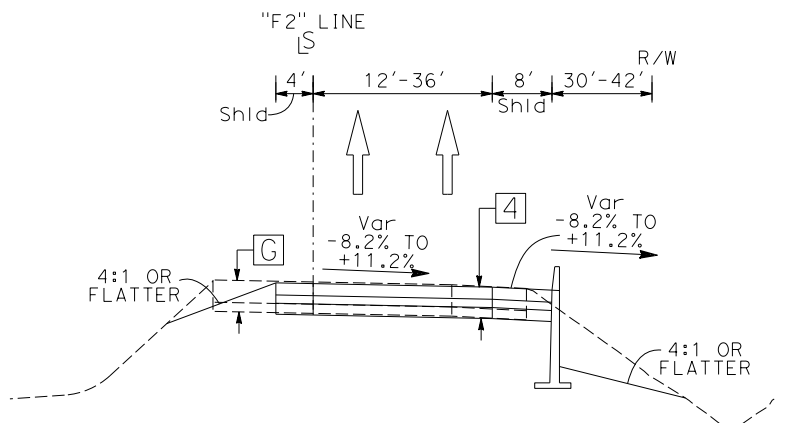
**E10-N15 Conn**  
"E10-N15" 161+21.73 TO 173+40.07



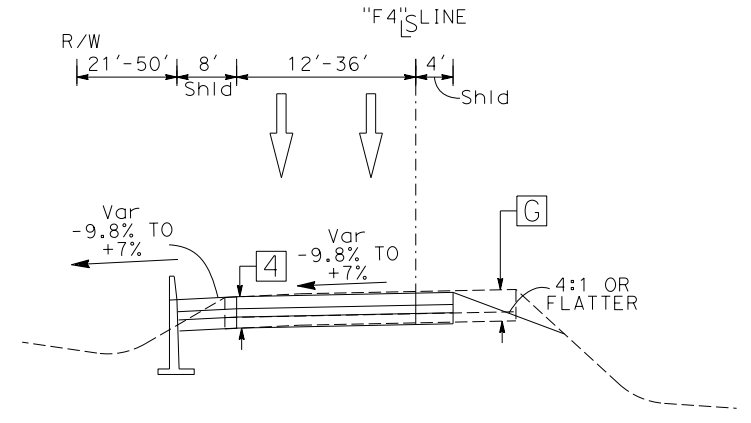
**E10-S15 Conn**  
"E10-S15" 136+31.72 TO 153+56.78



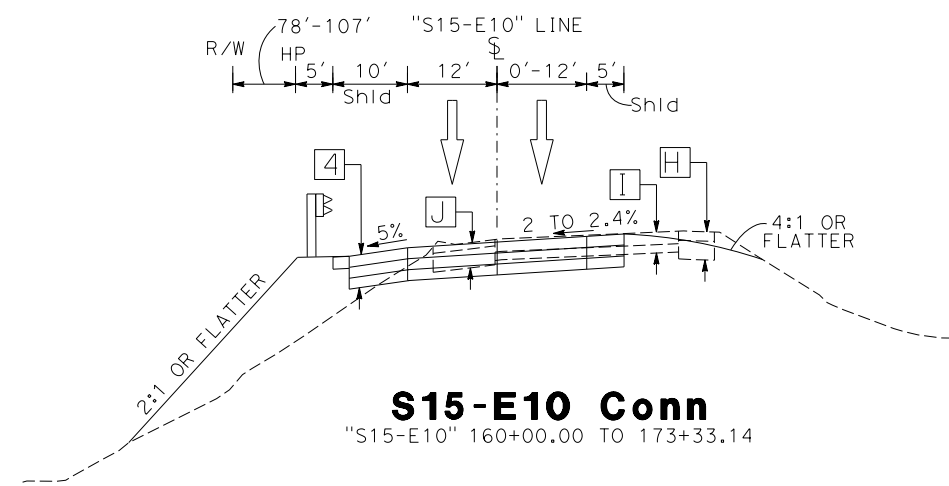
**W10-S15 Conn**  
"W10-S15" 125+95.34 TO 140+57.29



**FOURTH ST NB ON-RAMP**



**FOURTH ST SB OFF-RAMP**



**S15-E10 Conn**  
"S15-E10" 160+00.00 TO 173+33.14

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS**

NO SCALE

**X-14**

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

REVISED BY  
DATE

CALCULATED-DESIGNED BY  
CHECKED BY

FUNCTIONAL SUPERVISOR

DEPARTMENT OF TRANSPORTATION

USERNAME => yangj  
DGN FILE => 080R800-x14.dgn

RELATIVE BORDER SCALE  
15 IN INCHES



UNIT 0000

PROJECT NUMBER & PHASE

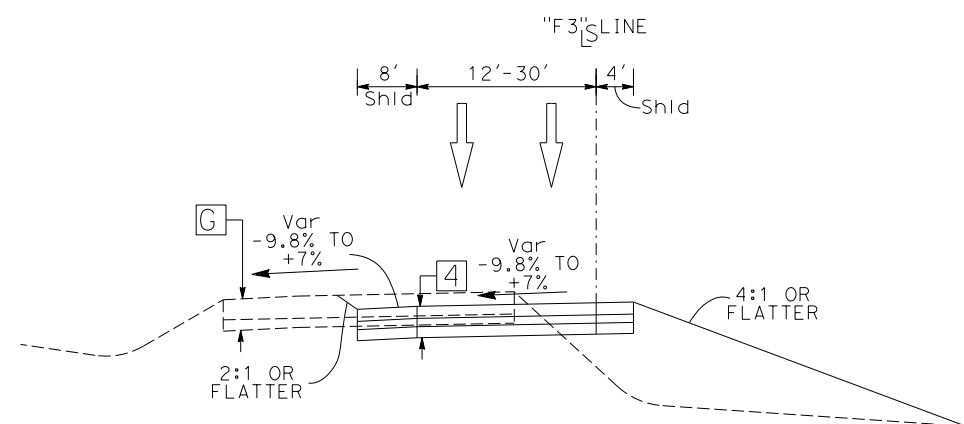
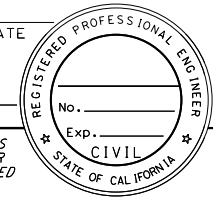
EA 08-OR800

PROJECT ID: 0812000184

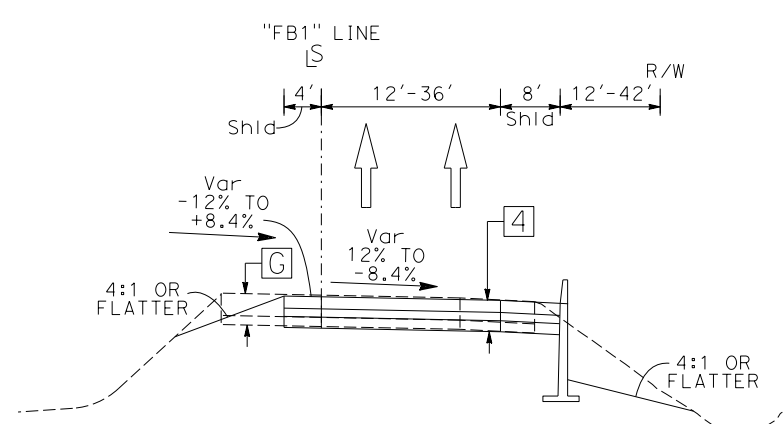
LAST REVISION DATE PLOTTED => 23-AUG-2018  
00-00-00 TIME PLOTTED => 14:39



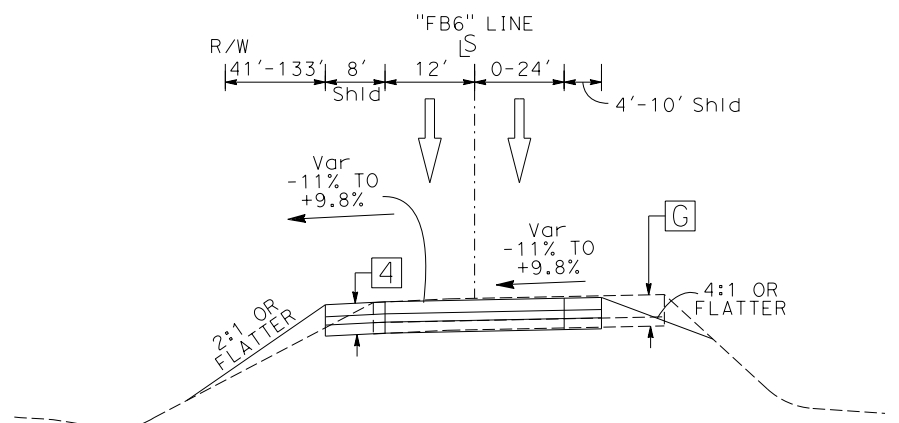
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
WSP USA Inc. 862 E. WASHINGTON WAY SUITE 380 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		



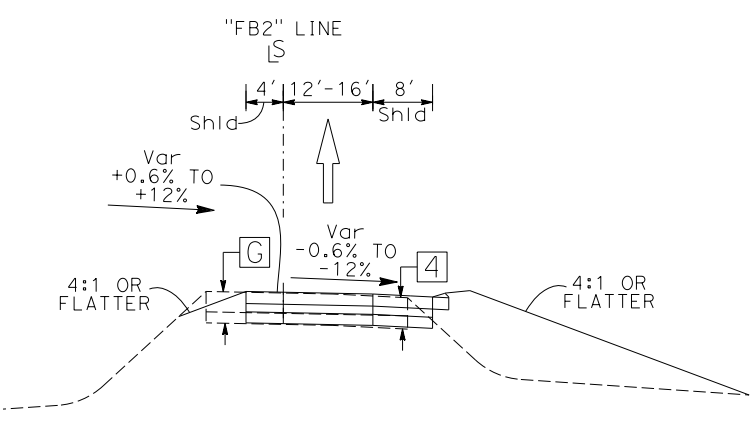
**FOURTH ST SB ON-RAMP**



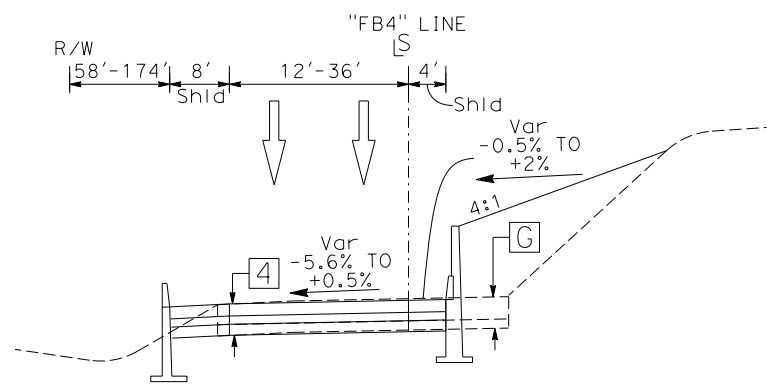
**FOOTHILL Blvd NB OFF-RAMP**



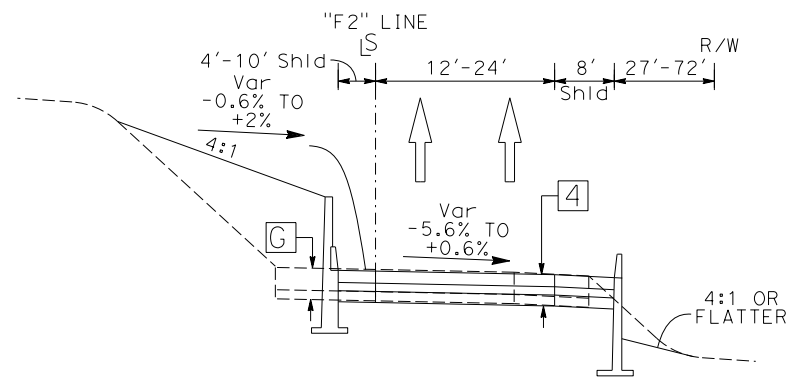
**FOOTHILL Blvd SB OFF-RAMP**



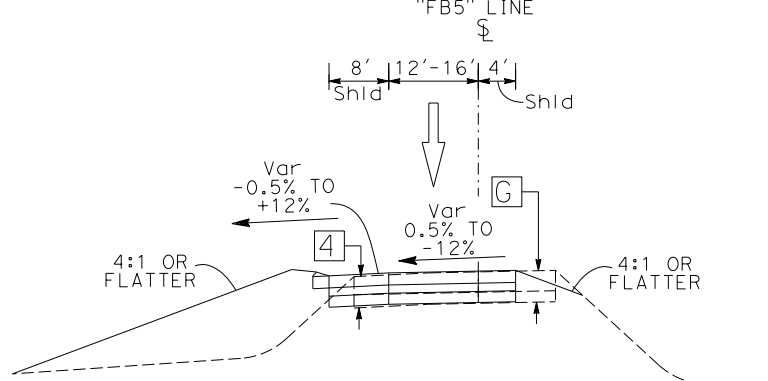
**FOOTHILL Blvd NB ON-RAMP LP**



**FOOTHILL Blvd SB ON-RAMP**



**FOOTHILL Blvd NB ON-RAMP**



**FOOTHILL Blvd SB ON-RAMP LP**

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS**  
NO SCALE

**X-15**

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

REVISOR: [ ] DATE: [ ]  
CALCULATED/DESIGNED BY: [ ] CHECKED BY: [ ]  
FUNCTIONAL SUPERVISOR: [ ]

LAST REVISION: [ ] DATE PLOTTED => 23-AUG-2018  
00-00-00 TIME PLOTTED => 14:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		

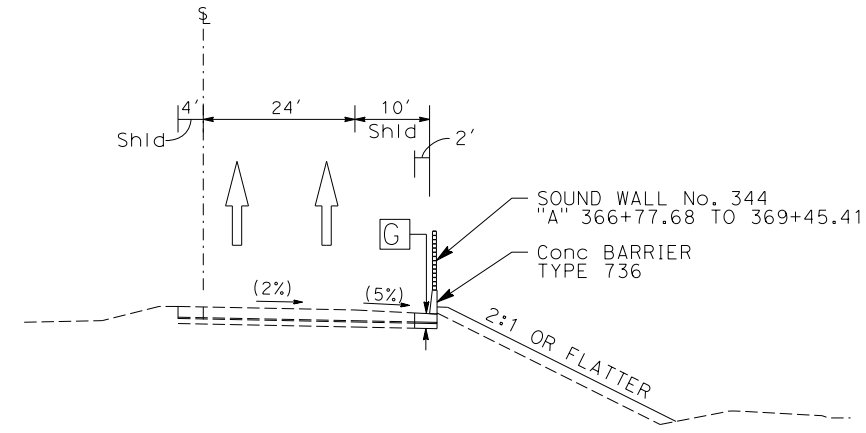
REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

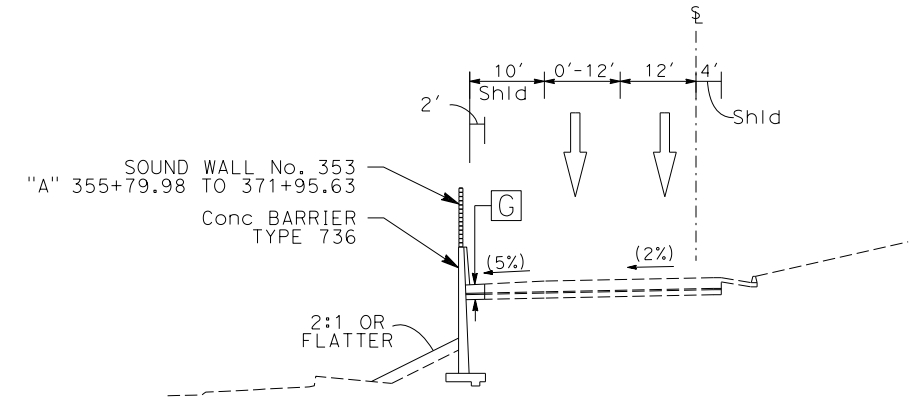
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

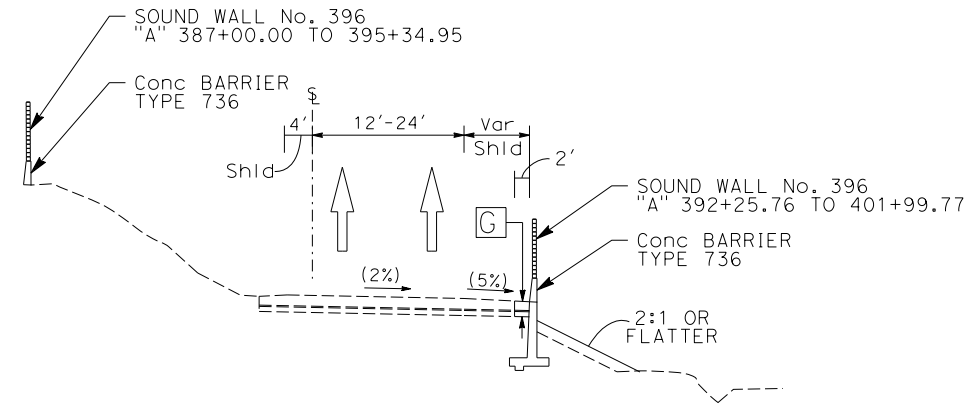
WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408	SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410
--	---



**BASELINE Ave NB OFF-RAMP**  
"A" 366+77.68 TO 370+50.28



**BASELINE Ave SB ON-RAMP**  
"A" 355+79.98 TO 372+45.71



**BASELINE Ave NB ON-RAMP**  
"A" 392+15.22 TO 401+99.77

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
TYPICAL CROSS SECTIONS**  
NO SCALE














**X-16**

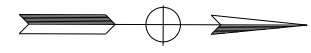
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
<b>Caltrans</b>		CHECKED BY	DATE REVISED

LAST REVISION: 00-00-00      DATE PLOTTED => 23-AUG-2018      TIME PLOTTED => 14:39

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

**LEGEND**

- LANE/Shld TRANSITION 
- 4:1 FILL SLOPE 
- 2:1 FILL SLOPE 
- CUT SLOPE 
- MGS 
- SOUND WALL 
- RETAINING WALL 
- SOUND WALL ON RETAINING WALL 
- Conc BARRIER 
- OTHER PROJECTS 
- Exist BRIDGE LIMITS 
- Prop BRIDGE WIDENING LIMITS 
- Shld EXCEEDS 10' 



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

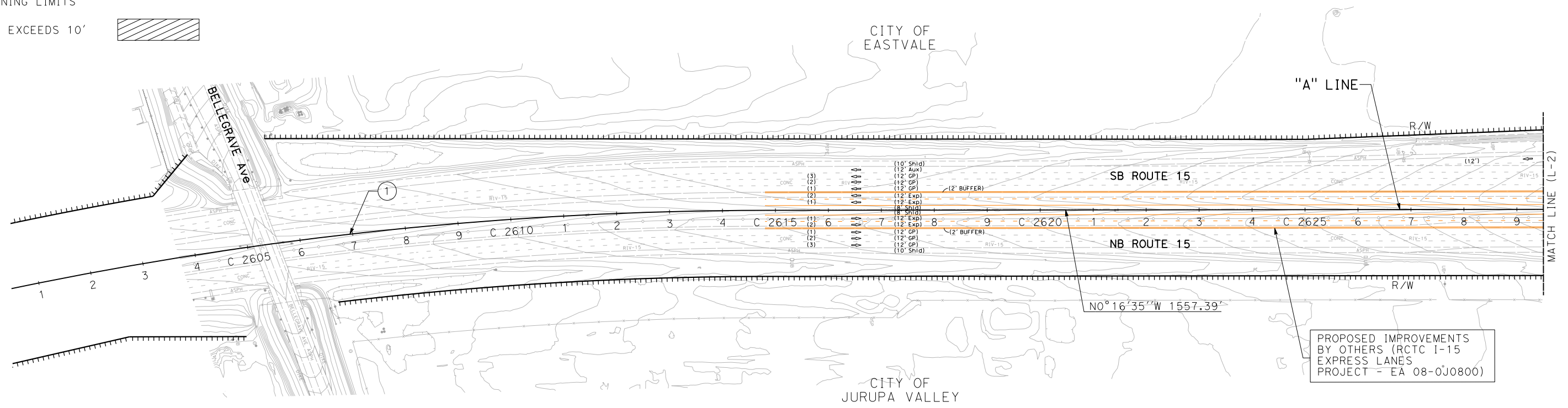
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



REVISOR: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CALCULATED/DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 FUNCTIONAL SUPERVISOR: \_\_\_\_\_  
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**



**CURVE DATA**

No.	R	Δ	T	L
(1)	6999.90'	12°51'31"	788.80'	1570.96'

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2**

**LAYOUT**  
SCALE 1"=200'

**L-01**

LAST REVISION: \_\_\_\_\_ DATE PLOTTED => 31-JUL-2018  
 00-00-00 TIME PLOTTED => 11:11

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

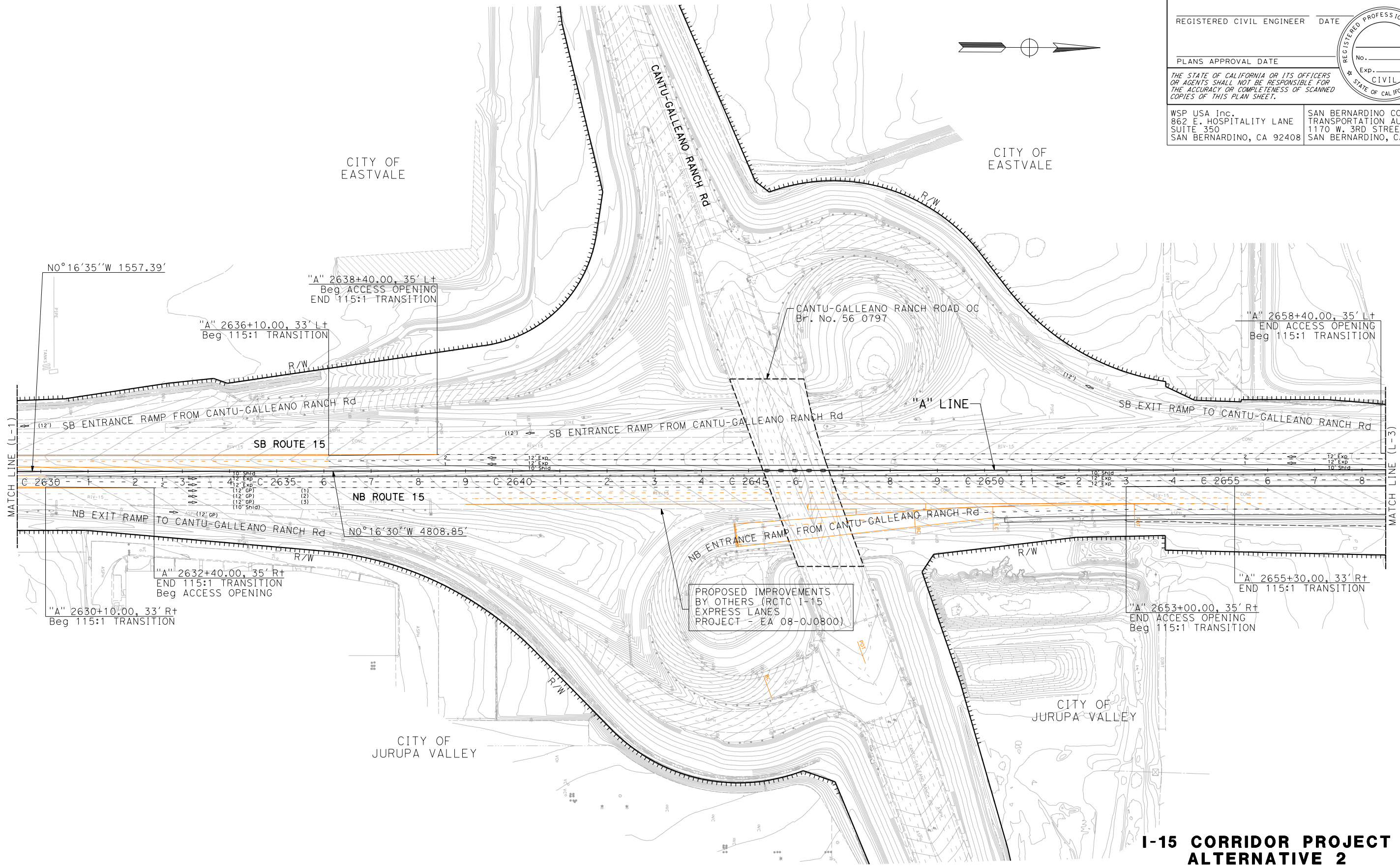
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-02**

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

REVISOR BY  
DATE REVISED

CALCULATED-DESIGNED BY  
CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		

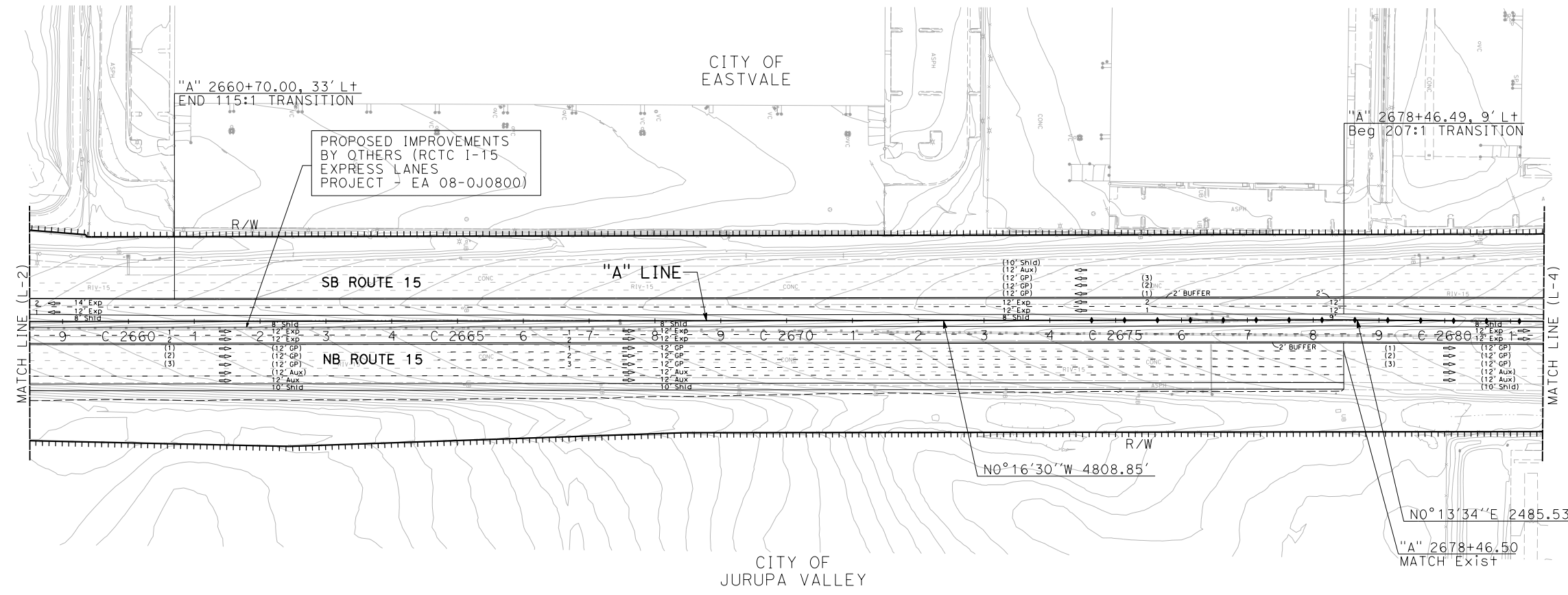
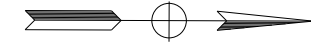
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

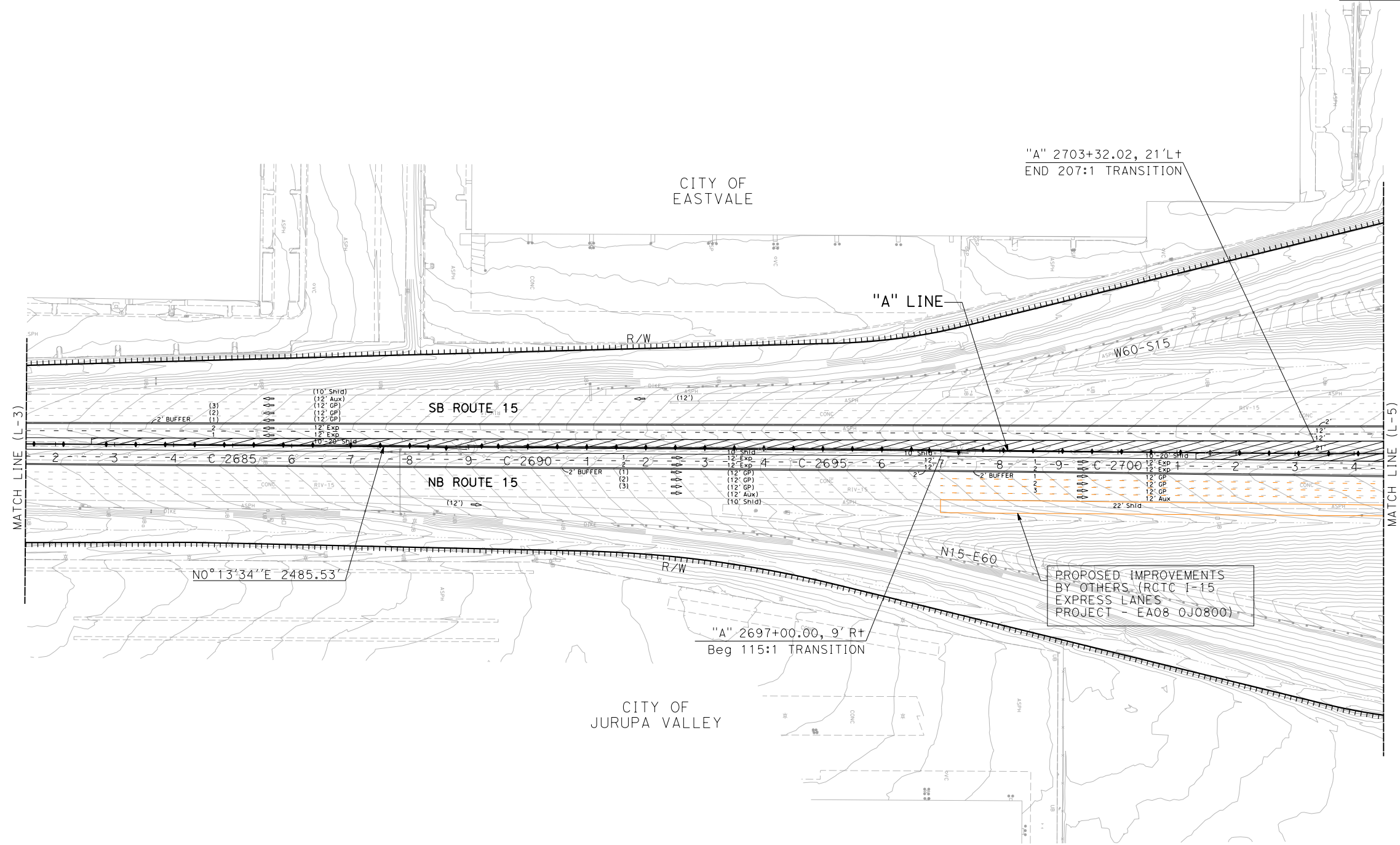
**L-03**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
<b>Caltrans</b>		CHECKED BY	DATE REVISED

LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 11:12

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		



**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-04**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
<b>Caltrans</b>		CHECKED BY	DATE

LAST REVISION      DATE PLOTTED => 31-JUL-2018  
00-00-00      TIME PLOTTED => 11:12



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

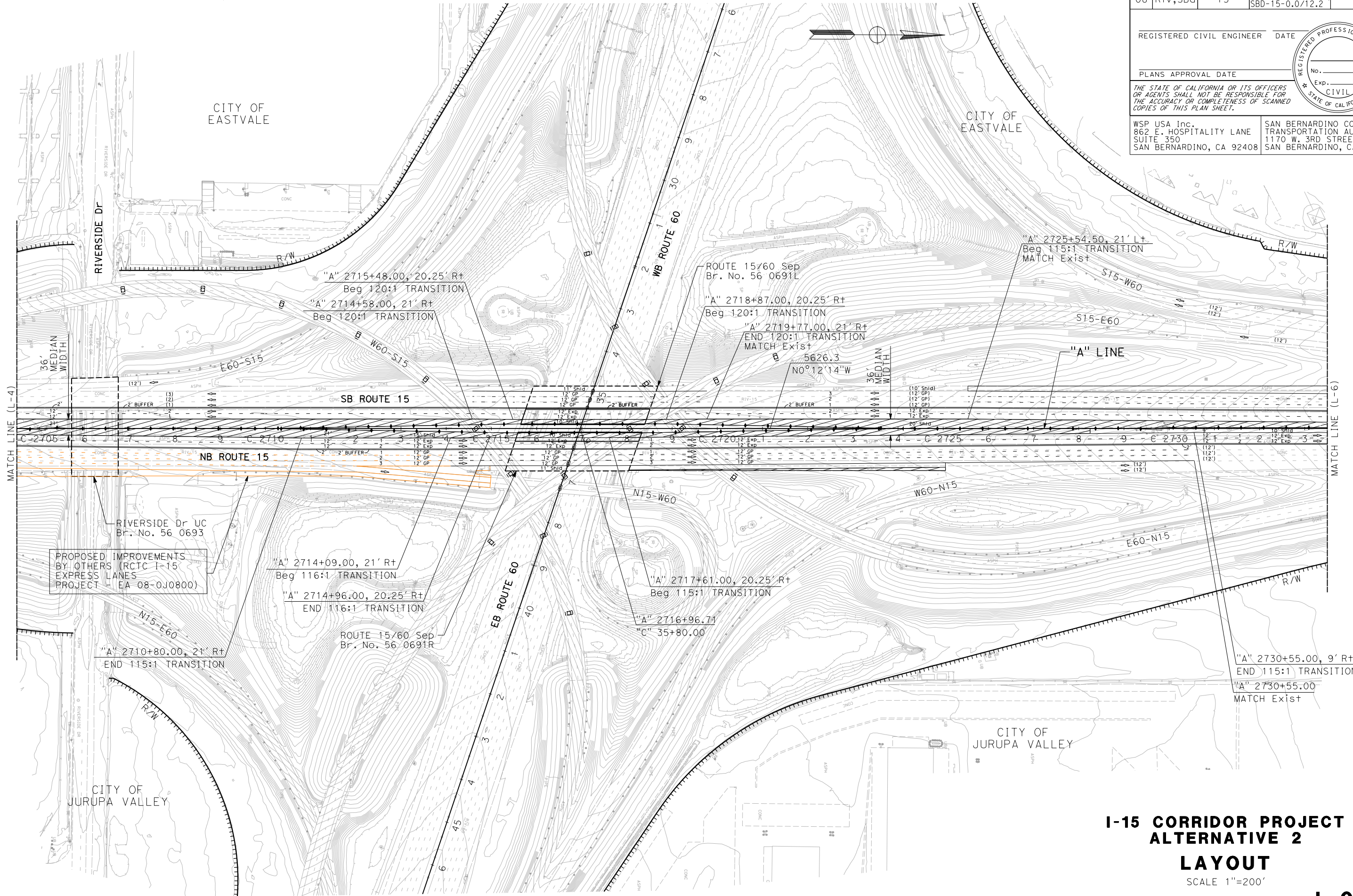
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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.

WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans**

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**

SCALE 1"=200'

**L-05**

LAST REVISION DATE PLOTTED => 31-JUL-2018 00-00-00 TIME PLOTTED => 11:12



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0-0/12.2		

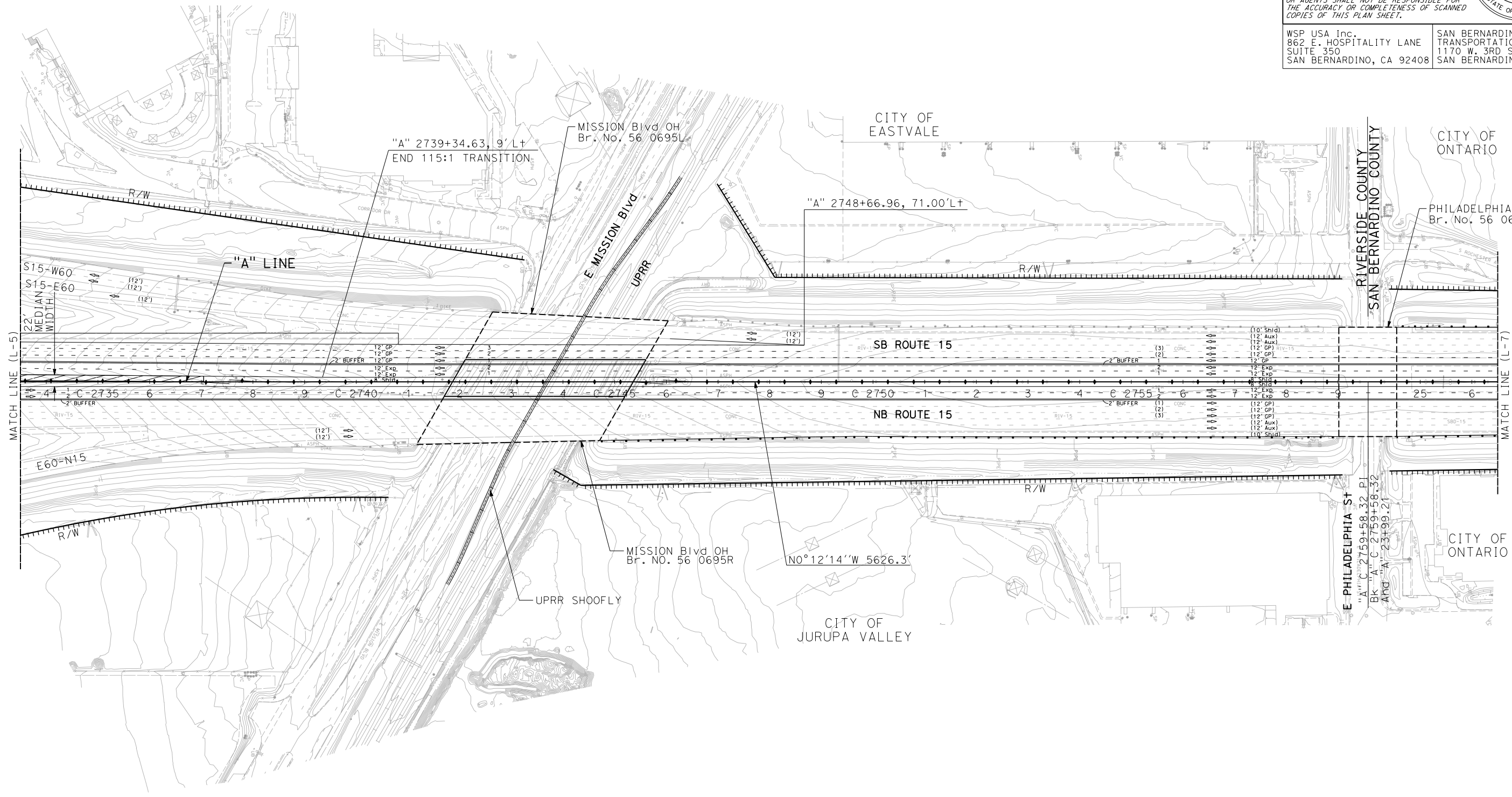
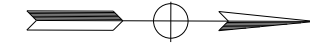
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-06**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans**

FUNCTIONAL SUPERVISOR \_\_\_\_\_

CHECKED BY \_\_\_\_\_

CALCULATED-DESIGNED BY \_\_\_\_\_

REVISED BY \_\_\_\_\_ DATE REVISED \_\_\_\_\_

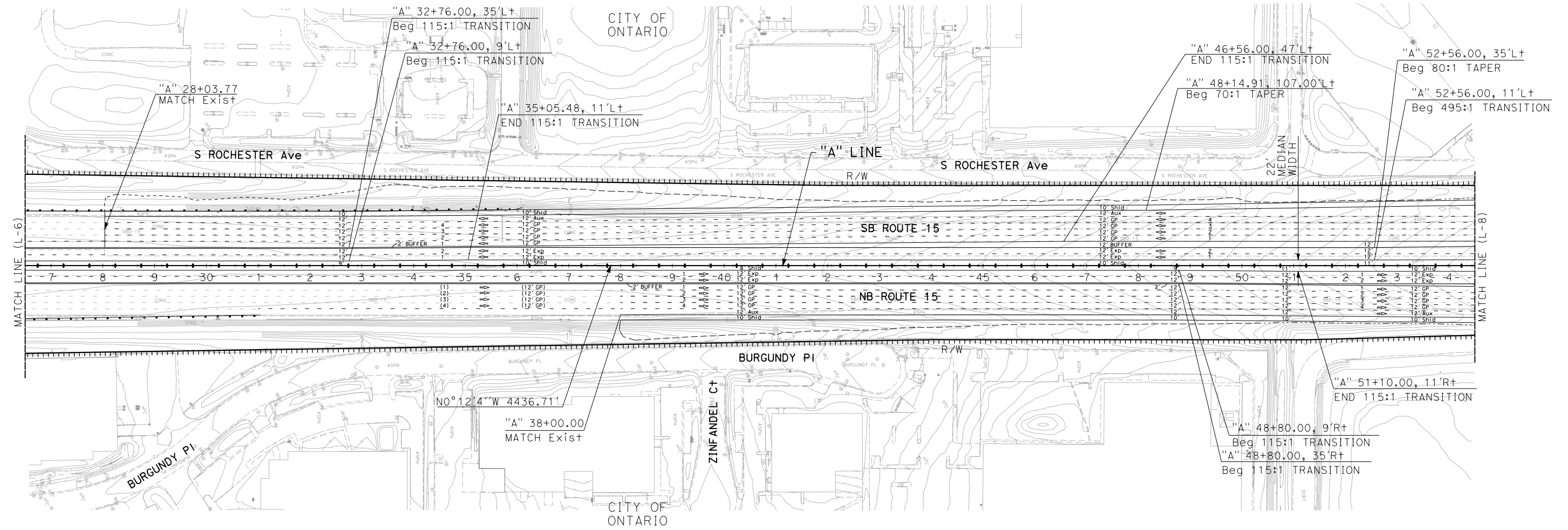
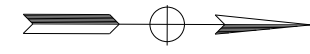
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x  
x  
x  
x  
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LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 11:12



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
<small>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.</small>					
WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		



**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-07**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR BY	DATE REVISED
<b>Caltrans</b>				

LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 11:12



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0-0/12,2		

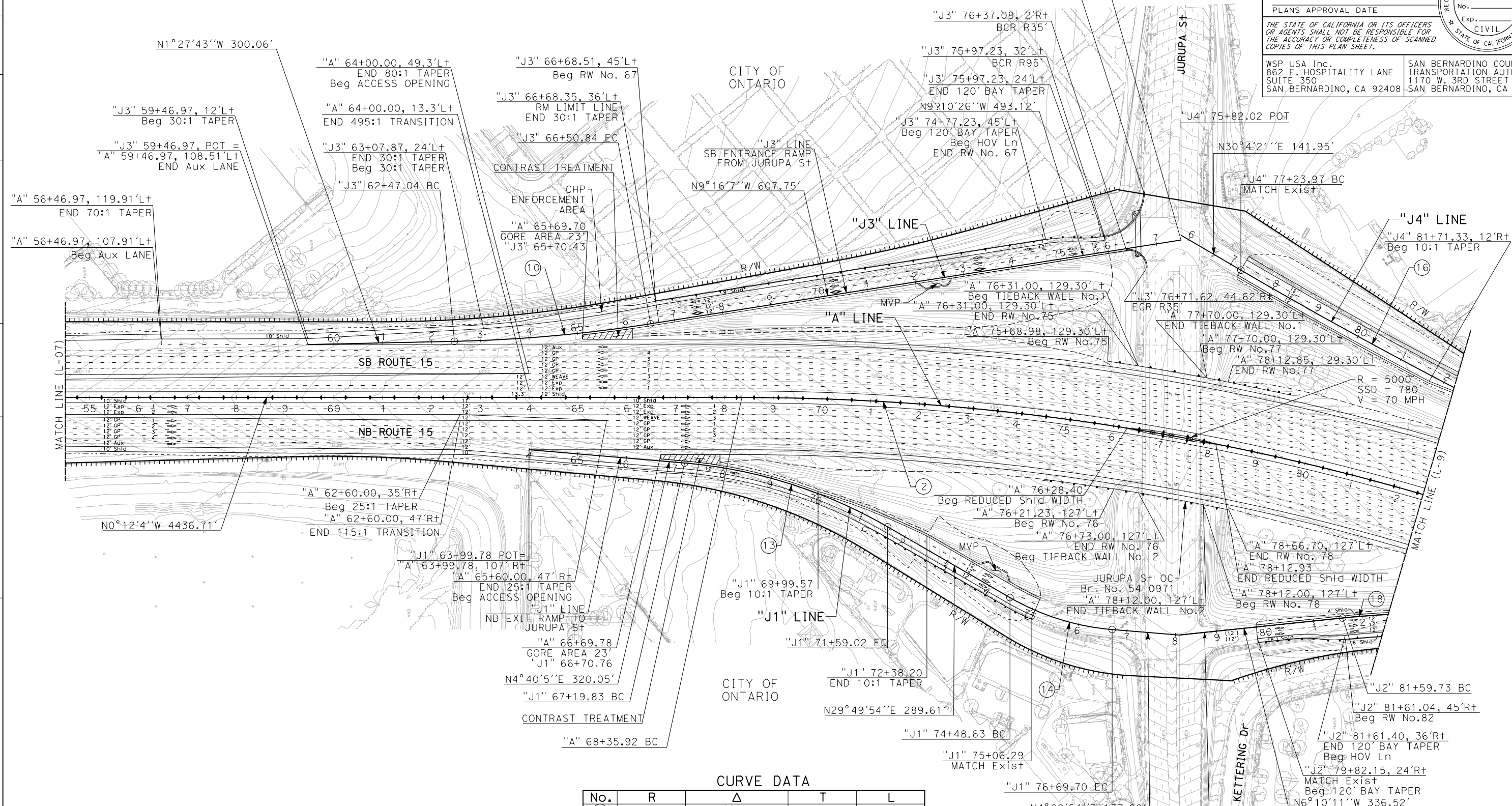
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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.

WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



**CURVE DATA**

No.	R	Δ	T	L
(2)	5000.00'	22°22'02"	988.55'	1951.92'
(10)	3000.00'	07°48'24"	204.69'	408.76'
(13)	1000.00'	25°09'49"	223.19'	439.19'
(14)	500.00'	25°20'00"	112.37'	221.08'
(16)	10000.00'	03°02'14"	265.10'	530.08'
(18)	1750.00'	27°11'25"	423.21'	830.48'

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**

SCALE 1"=200'

**L-08**

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

LAST REVISION DATE PLOTTED => 31-JUL-2018  
 00-00-00 TIME PLOTTED => 11:12



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

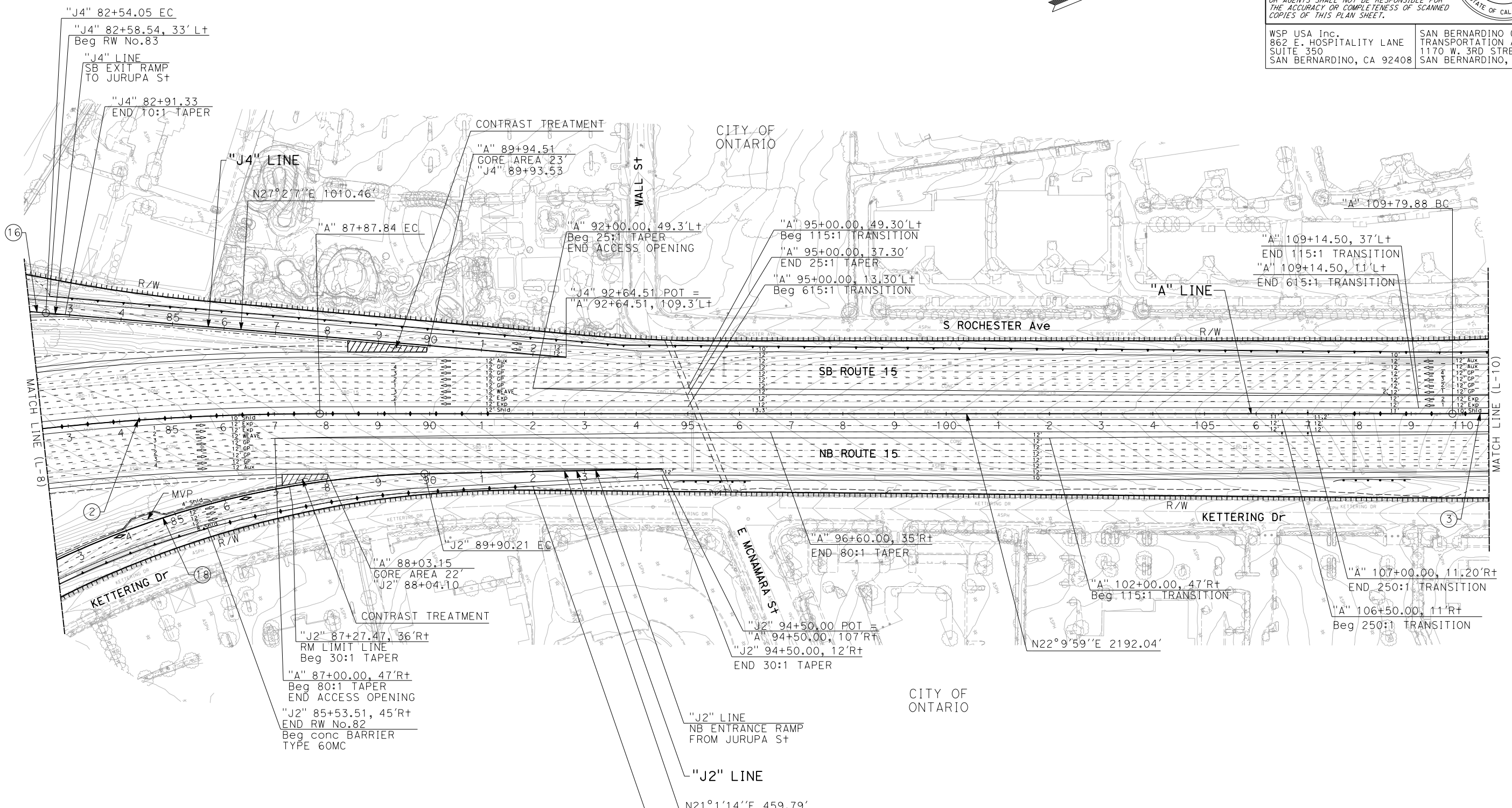
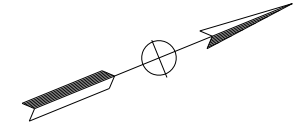
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



CURVE DATA

No.	R	Δ	T	L
(2)	5000.00'	22° 22' 02"	988.55'	1951.92'
(3)	4999.99'	22° 00' 22"	972.17'	1920.38'
(16)	10000.00'	03° 02' 14"	265.10'	530.08'
(18)	1750.00'	27° 11' 25"	423.21'	830.48'

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-09**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Et Caltrans

USERNAME => rodriguez  
DGN FILE => 080R800-ea09.dgn

UNIT 0000

PROJECT NUMBER & PHASE

EA 08-OR800

PROJECT ID: 0812000184

LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 13:30



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0-0/12.2		

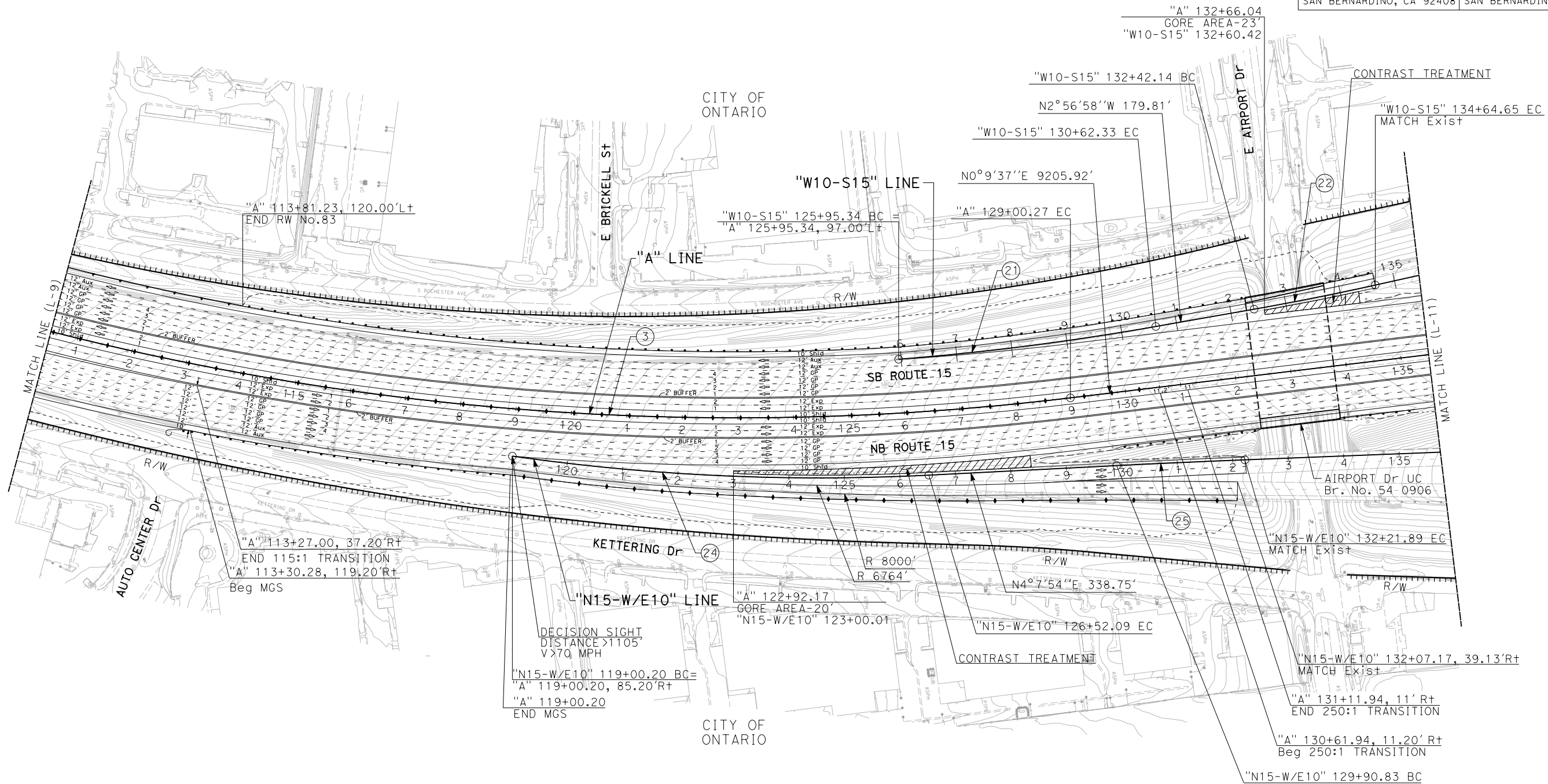
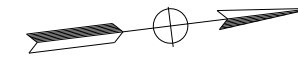
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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.

WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



CURVE DATA

No.	R	Δ	T	L
(3)	4999.99'	22°00'22"	972.17'	1920.38'
(21)	4902.99'	05°27'26"	233.67'	466.99'
(22)	5000.00'	02°32'59"	111.27'	222.51'
(24)	3900.00'	11°02'46"	377.11'	751.89'
(25)	20000.00'	00°39'43"	115.53'	231.05'

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2**

**LAYOUT**

SCALE 1"=200'

**L-10**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans**

FUNCTIONAL SUPERVISOR \_\_\_\_\_

CHECKED BY \_\_\_\_\_

DESIGNED BY \_\_\_\_\_

REVISOR BY \_\_\_\_\_

DATE REVISED \_\_\_\_\_



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SbD	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

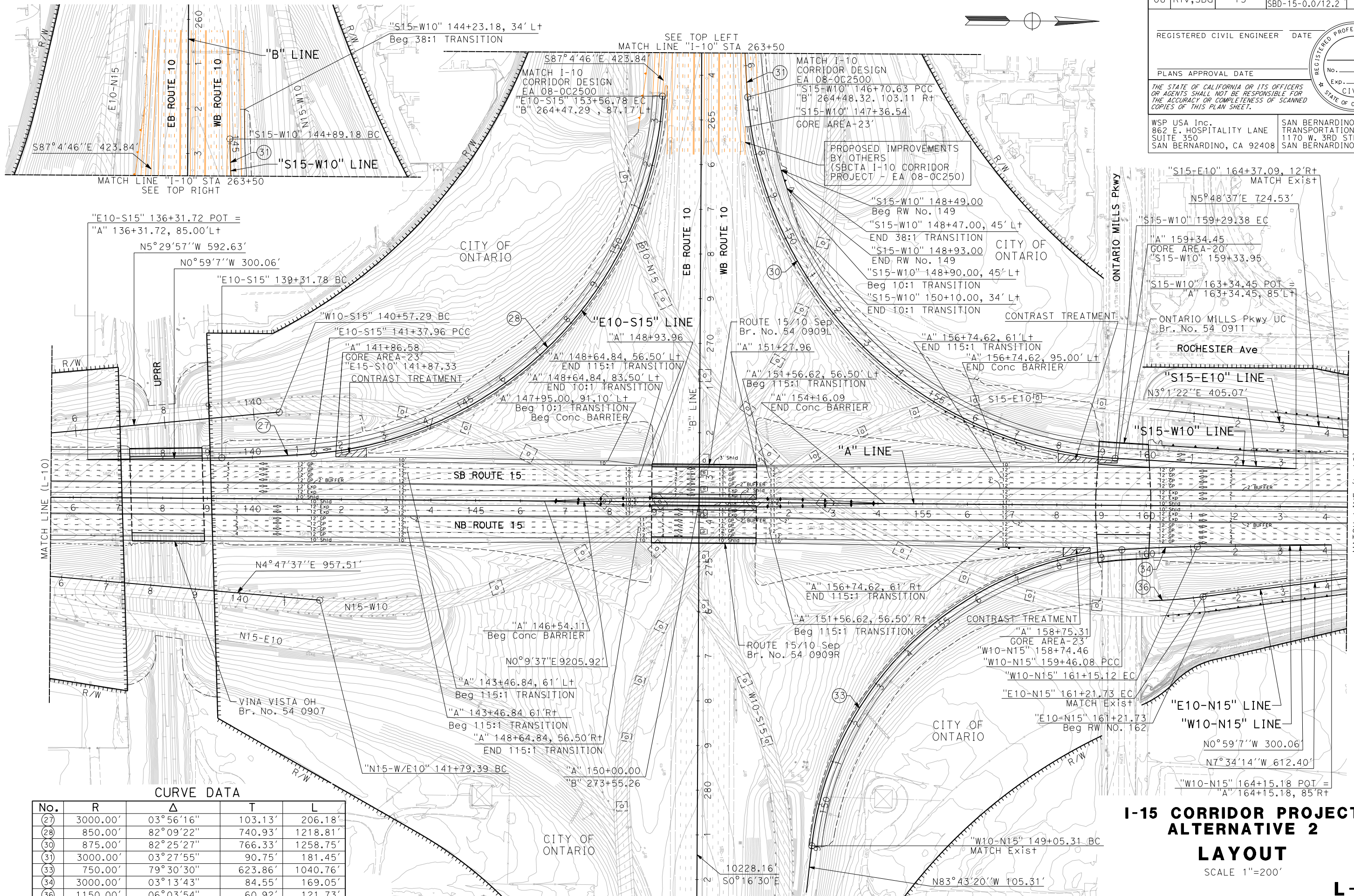
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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WSP S/Ps Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



CURVE DATA

No.	R	Δ	T	L
(27)	3000.00'	03°56'16"	103.13'	206.18'
(28)	850.00'	82°09'22"	740.93'	1218.81'
(30)	875.00'	82°25'27"	766.33'	1258.75'
(31)	3000.00'	03°27'55"	90.75'	181.45'
(33)	750.00'	79°30'30"	623.86'	1040.76'
(34)	3000.00'	03°13'43"	84.55'	169.05'
(36)	1150.00'	06°03'54"	60.92'	121.73'

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-11**

REVISOR: \_\_\_\_\_ DATE: \_\_\_\_\_  
CALCULATED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
FUNCTIONAL SUPERVISOR: \_\_\_\_\_  
DEPARTMENT OF TRANSPORTATION - STATE OF CALIFORNIA

USERNAME => rodriguez  
DGN FILE => 080R800-ea11.dgn

UNIT 0000 PROJECT NUMBER & PHASE EA 08-OR800 PROJECT ID: 0812000184

BORDER LAST REVISED 7/2/2010

LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 11:13



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

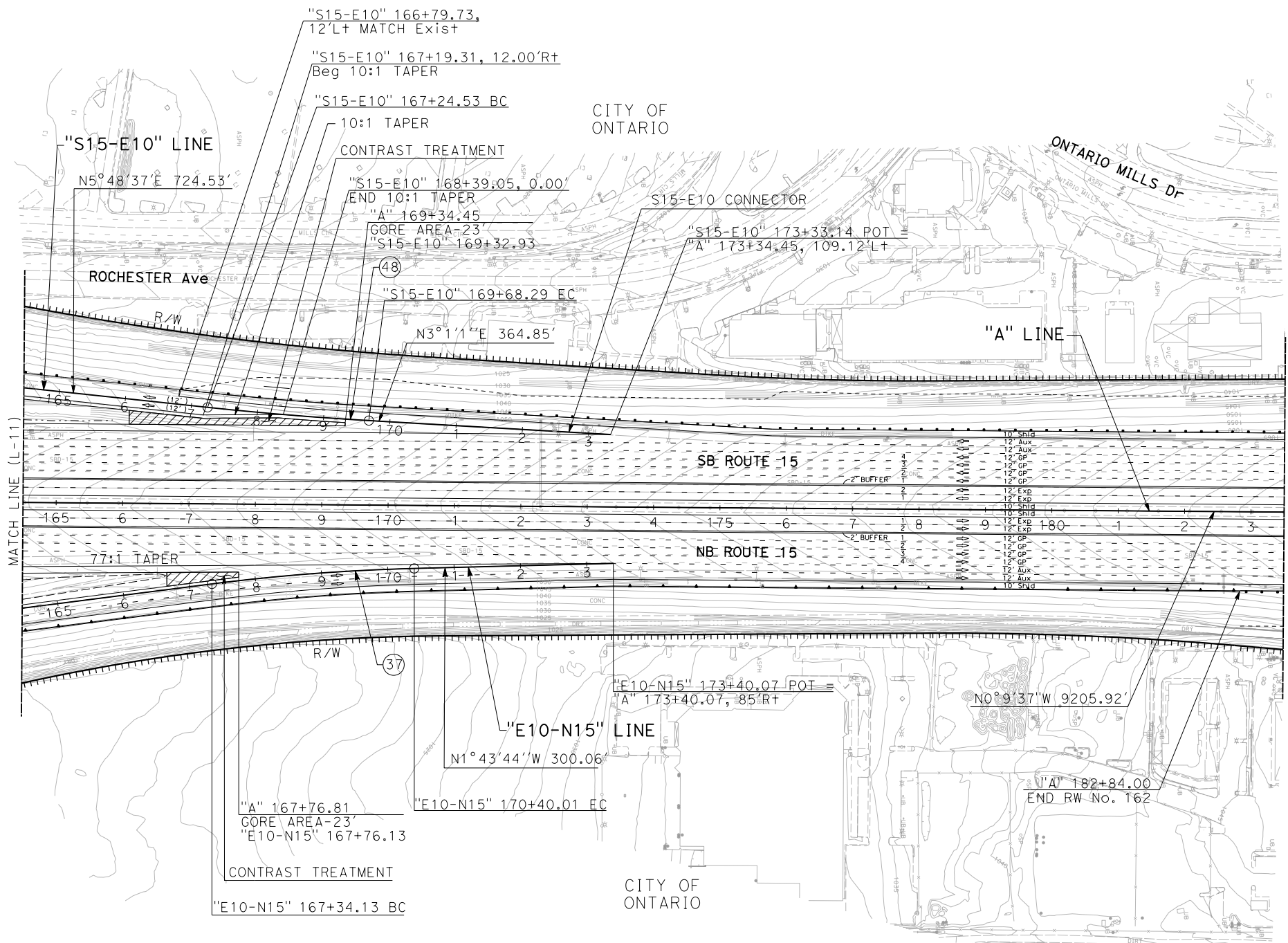
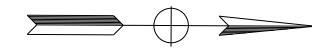
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 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.



WSP USA Inc.  
 862 E. HOSPITALITY LANE  
 SUITE 350  
 SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
 TRANSPORTATION AUTHORITY  
 1170 W. 3RD STREET  
 SAN BERNARDINO, CA 92410



**CURVE DATA**

No.	R	Δ	T	L
(37)	3000.00'	05° 50' 30"	153.07'	305.87'
(48)	5000.00'	02° 47' 36"	121.91'	243.76'

**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 LAYOUT**  
 SCALE 1"=200'

**L-12**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
<b>Caltrans</b>			
			DATE REVISOR

LAST REVISION    DATE PLOTTED => 31-JUL-2018  
 00-00-00    TIME PLOTTED => 11:13

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		

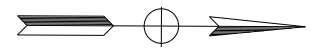
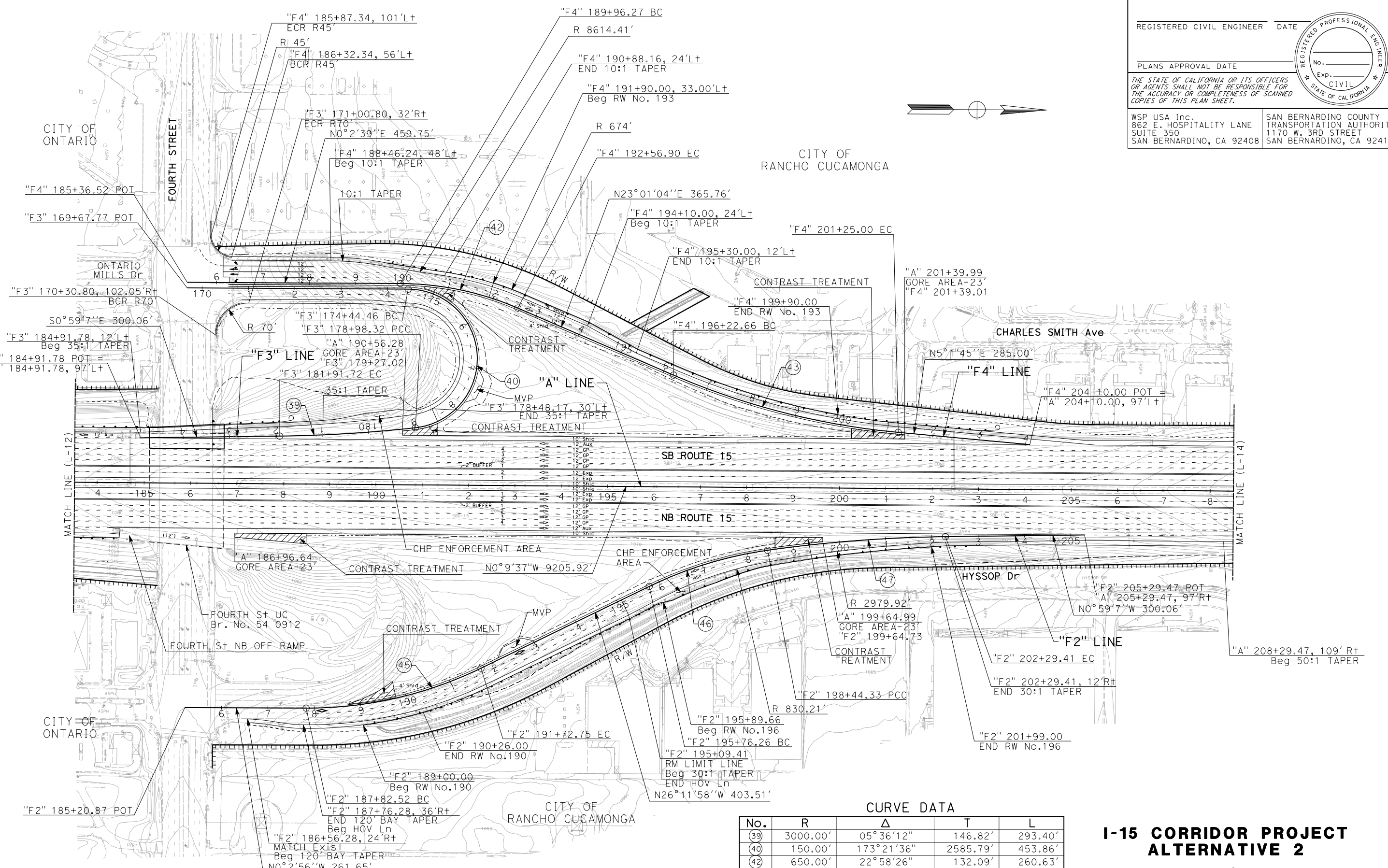
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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.

WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



CURVE DATA

No.	R	Δ	T	L
(39)	3000.00'	05°36'12"	146.82'	293.40'
(40)	150.00'	173°21'36"	2585.79'	453.86'
(42)	650.00'	22°58'26"	132.09'	260.63'
(43)	1600.00'	17°59'19"	253.25'	502.34'
(45)	855.00'	26°09'02"	198.58'	390.24'
(46)	860.00'	17°51'35"	135.13'	268.07'
(47)	3000.00'	07°21'16"	192.80'	385.08'

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-13**

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

USERNAME => rodriguez  
 DGN FILE => 080R800-eat13.dgn

UNIT 0000

PROJECT NUMBER & PHASE

EA 08-0R800

PROJECT ID: 0812000184

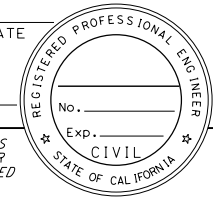
LAST REVISION DATE PLOTTED => 31-JUL-2018  
 00-00-00 TIME PLOTTED => 11:13



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

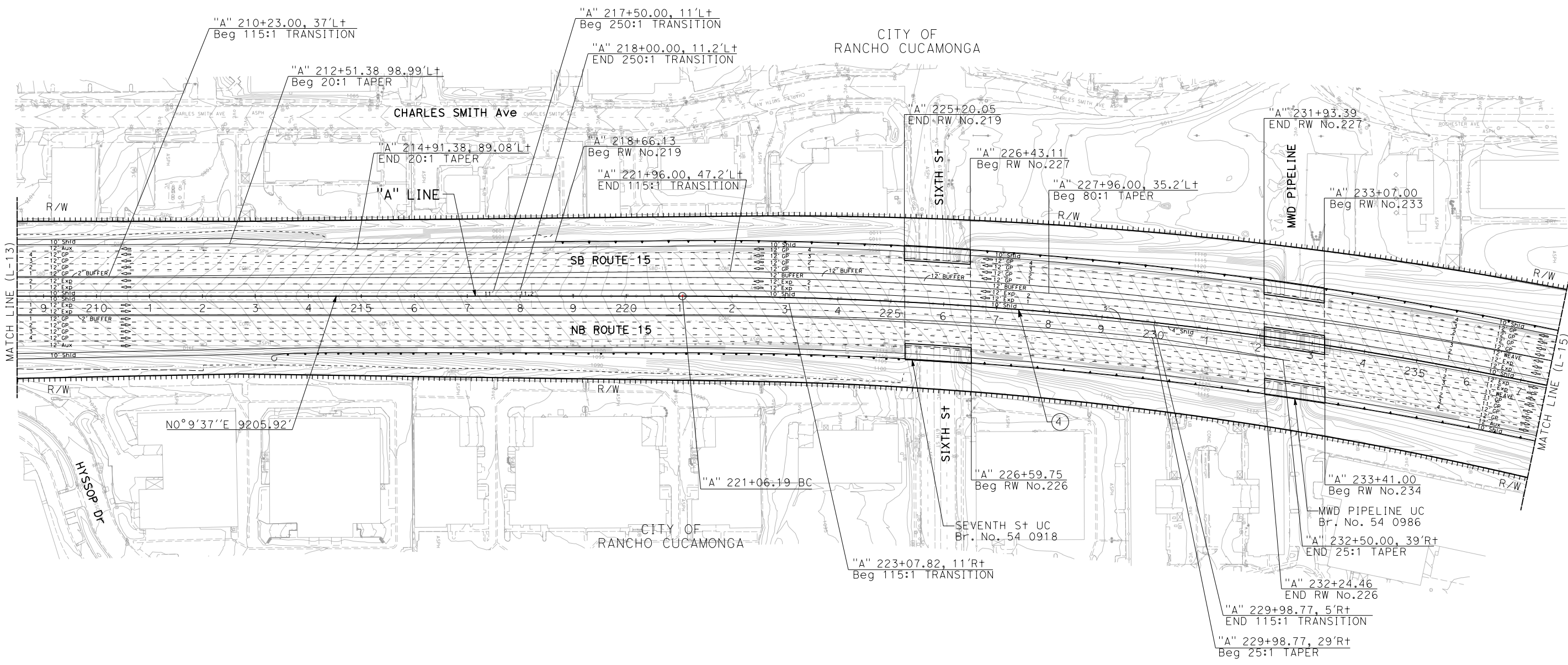
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 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.



WSP USA Inc.  
 862 E. HOSPITALITY LANE  
 SUITE 350  
 SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
 TRANSPORTATION AUTHORITY  
 1170 W. 3RD STREET  
 SAN BERNARDINO, CA 92410



CURVE DATA

No.	R	Δ	T	L
(4)	8000.00'	44° 38' 00"	3283.76'	6231.99'

**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 LAYOUT**  
 SCALE 1"=200'

**L-14**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Et Caltrans

LAST REVISION DATE PLOTTED => 31-JUL-2018  
 00-00-00 TIME PLOTTED => 11:13



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		

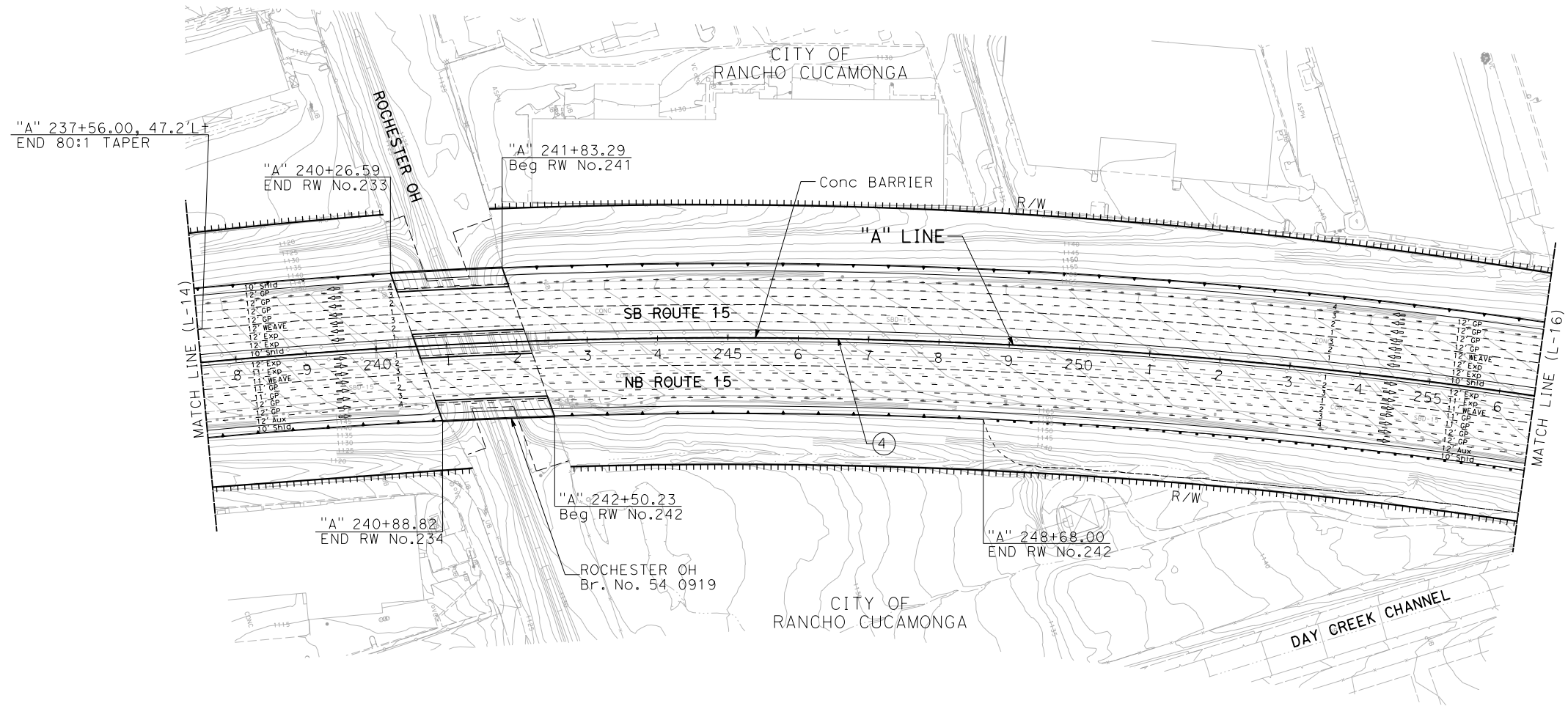
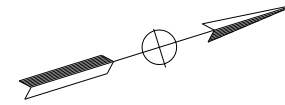
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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.

WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



CURVE DATA

No.	R	Δ	T	L
(4)	8000.00'	44° 38' 00"	3283.76'	6231.99'

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-15**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans**

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION: DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 11:13

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

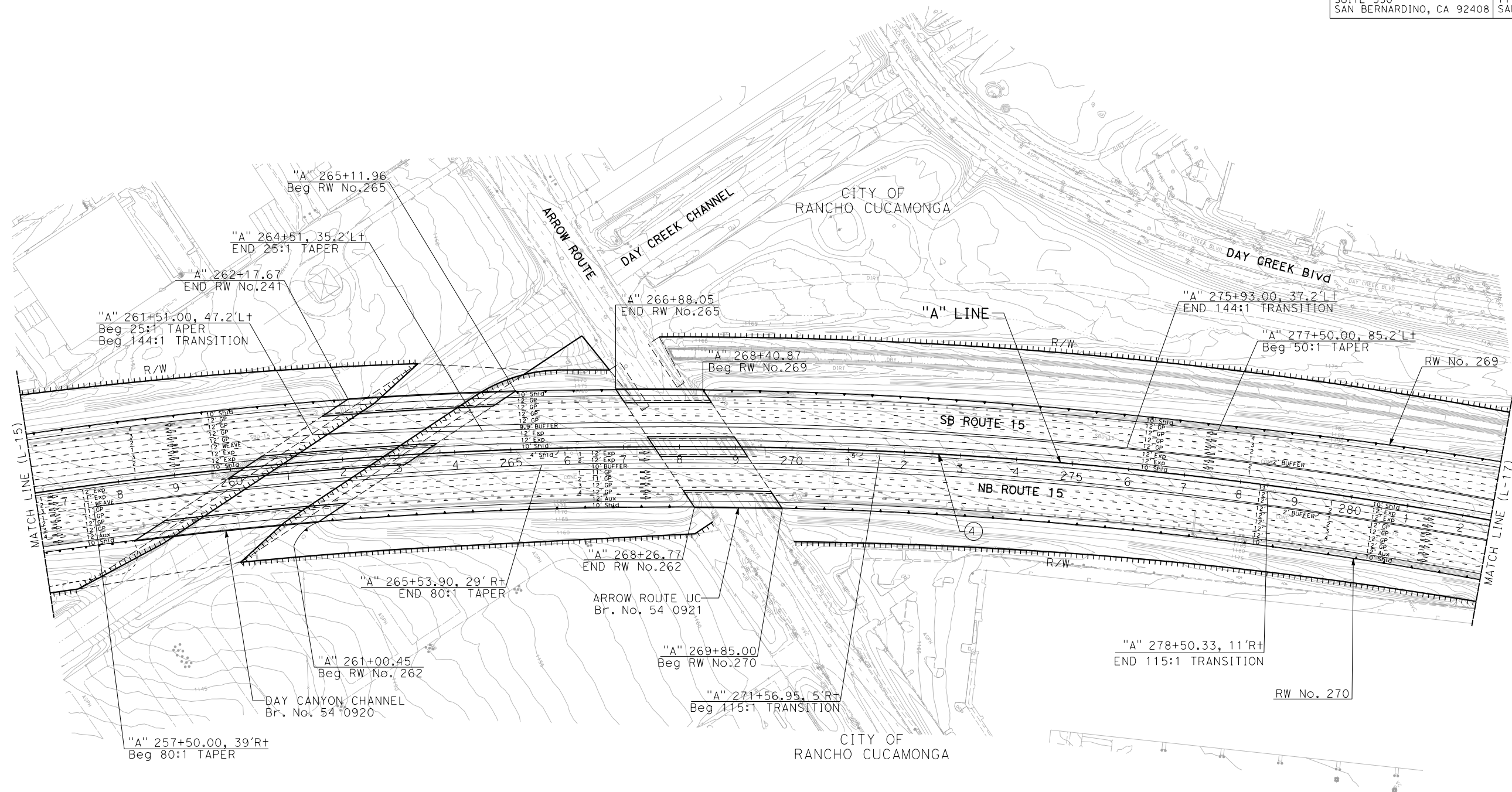
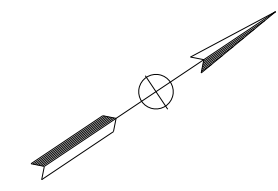
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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.

WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



CURVE DATA

No.	R	Δ	T	L
(4)	8000.00'	44° 38' 00"	3283.76'	6231.99'

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-16**

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

USERNAME => rodriguez  
DGN FILE => 080R800-eat16.dgn

UNIT 0000

PROJECT NUMBER & PHASE

EA 08-0R800

PROJECT ID: 0812000184

LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 11:13



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0-0/12,2		

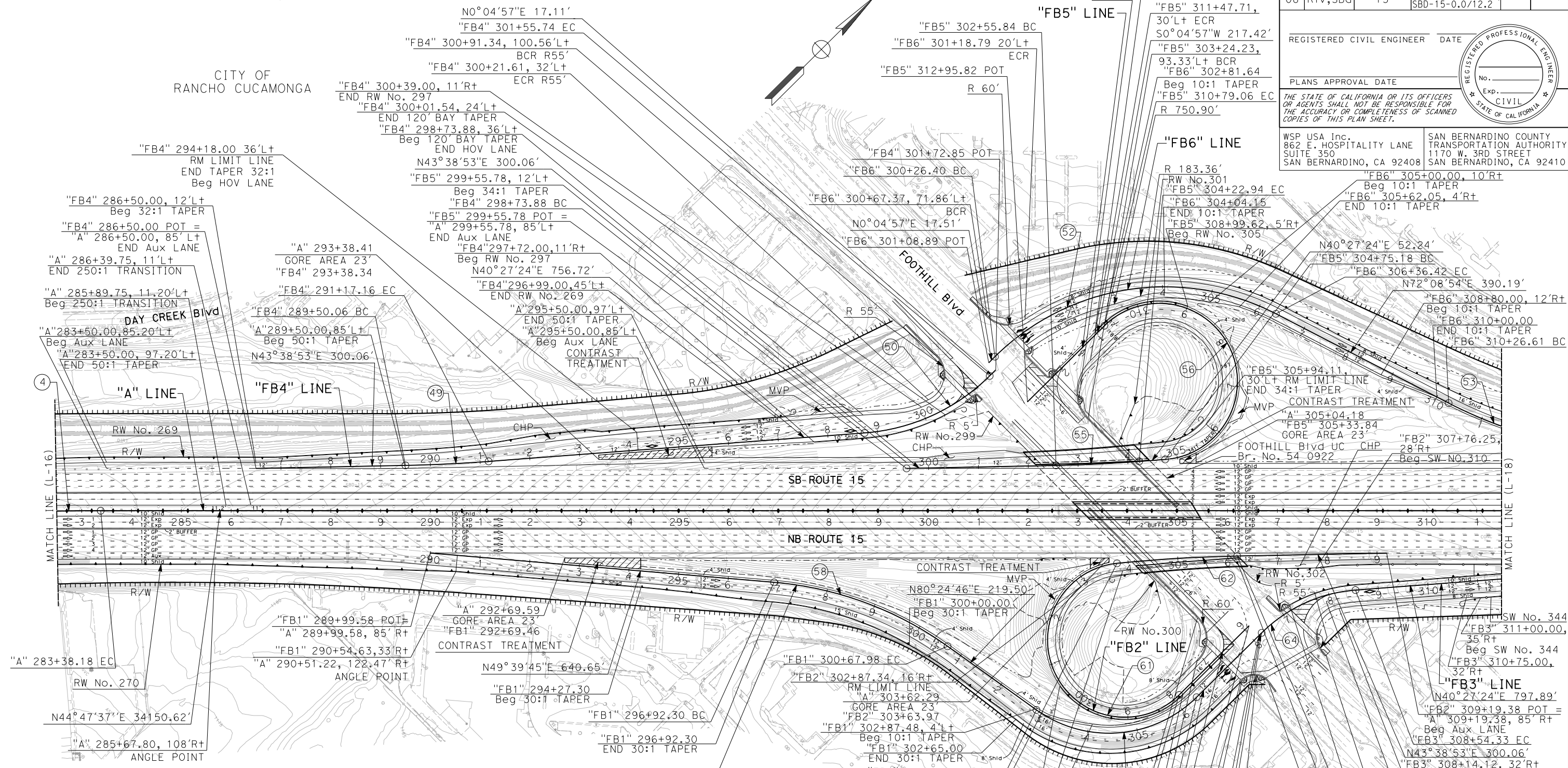
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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.

WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



CURVE DATA

No.	R	Δ	T	L
(4)	8000.00'	44°38'00"	3283.76'	6231.99'
(49)	3000.00'	03°11'29"	83.57'	167.10'
(50)	400.00'	40°22'26"	147.07'	281.86'
(52)	485.00'	72°03'57"	352.80'	610.03'
(53)	875.00'	22°29'09"	173.93'	343.39'
(55)	3000.00'	03°11'29"	83.57'	167.10'
(56)	157.00'	220°22'27"	-	576.94'
(58)	700.00'	30°45'01"	192.49'	375.69'
(59)	250.00'	80°19'49"	211.01'	350.51'
(61)	155.00'	218°56'58"	-	592.32'
(62)	3000.00'	04°36'57"	120.91'	241.69'
(64)	300.00'	40°22'31"	110.31'	211.40'

CITY OF RANCHO CUCAMONGA

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2**

**LAYOUT**

SCALE 1"=200'

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

LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 11:13



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

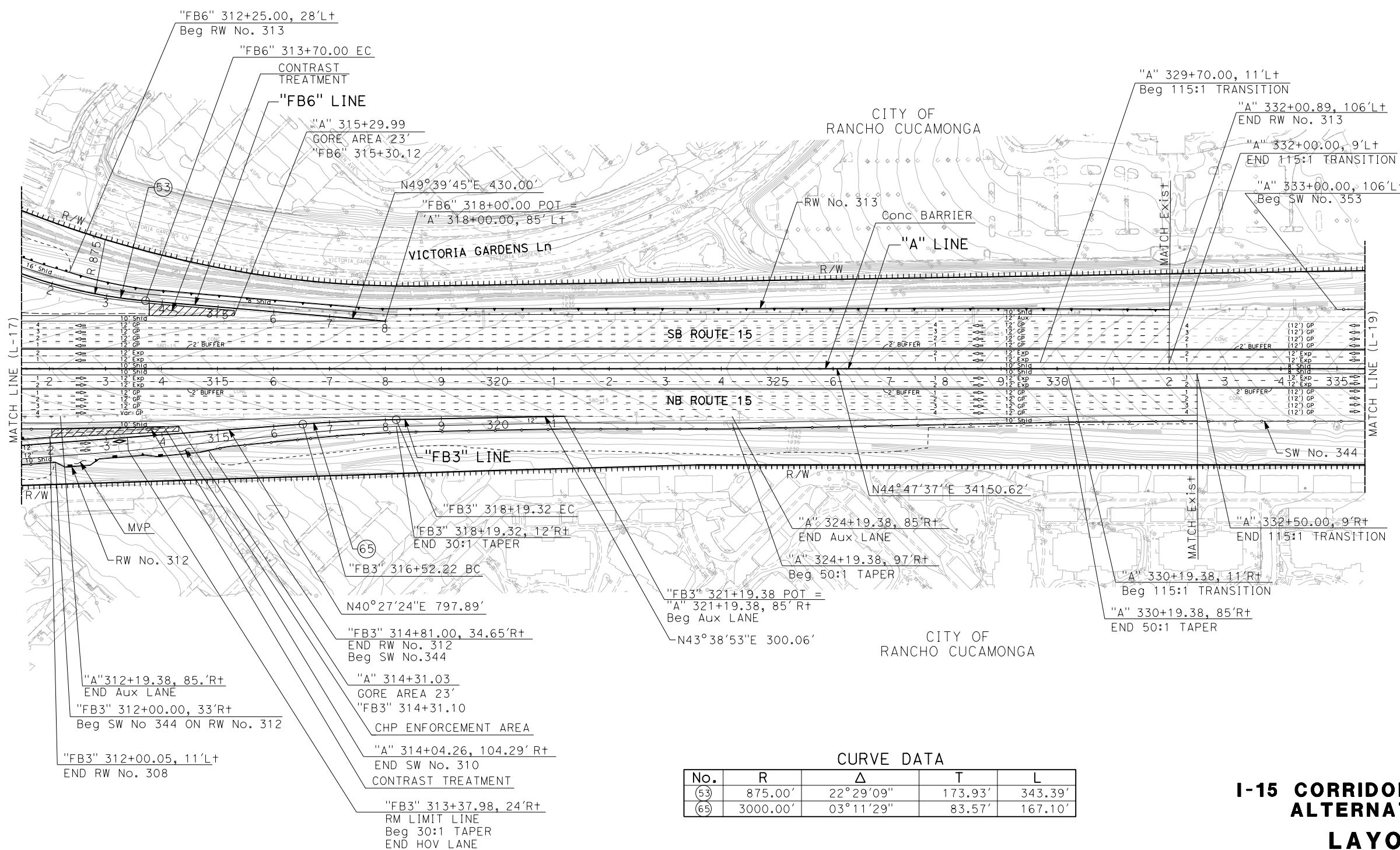
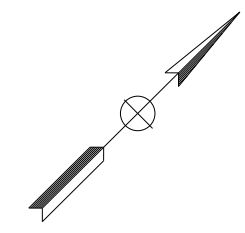
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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.

WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



CURVE DATA

No.	R	Δ	T	L
(53)	875.00'	22°29'09"	173.93'	343.39'
(69)	3000.00'	03°11'29"	83.57'	167.10'

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-18**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans**

FUNCTIONAL SUPERVISOR

CHECKED BY

DESIGNED BY

REVISOR

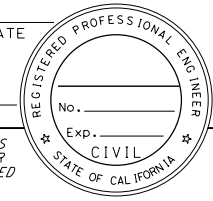
DATE

LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 11:13

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

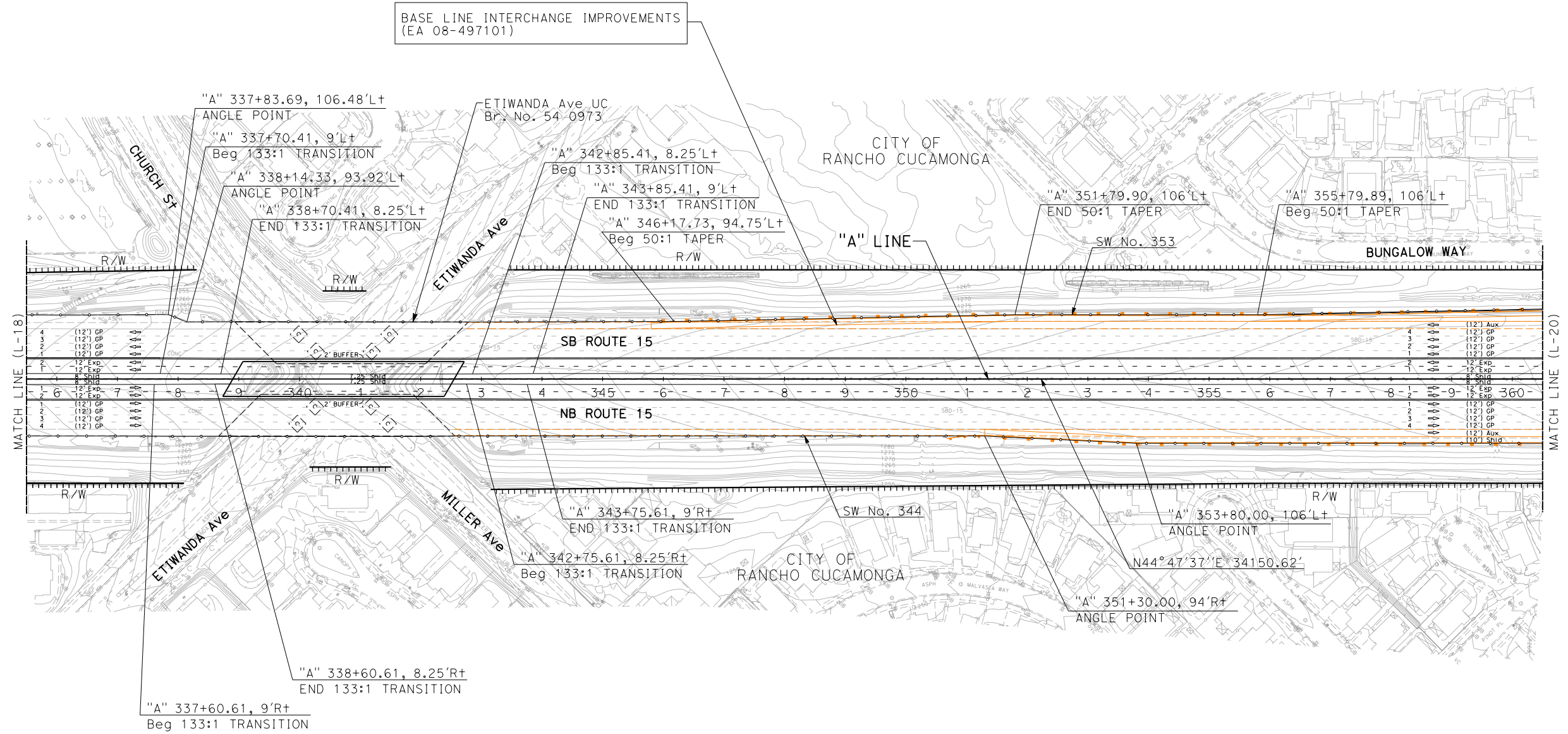
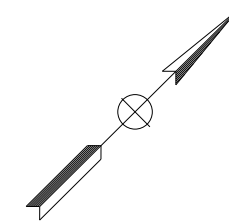
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, Sbd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 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.



WSP USA Inc.  
 862 E. HOSPITALITY LANE  
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 SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
 TRANSPORTATION AUTHORITY  
 1170 W. 3RD STREET  
 SAN BERNARDINO, CA 92410



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Et Caltrans

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 LAYOUT**  
 SCALE 1"=200'

**L-19**

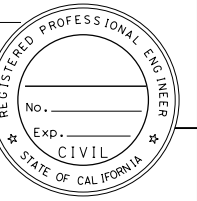
LAST REVISION DATE PLOTTED => 31-JUL-2018  
 00-00-00 TIME PLOTTED => 11:13



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

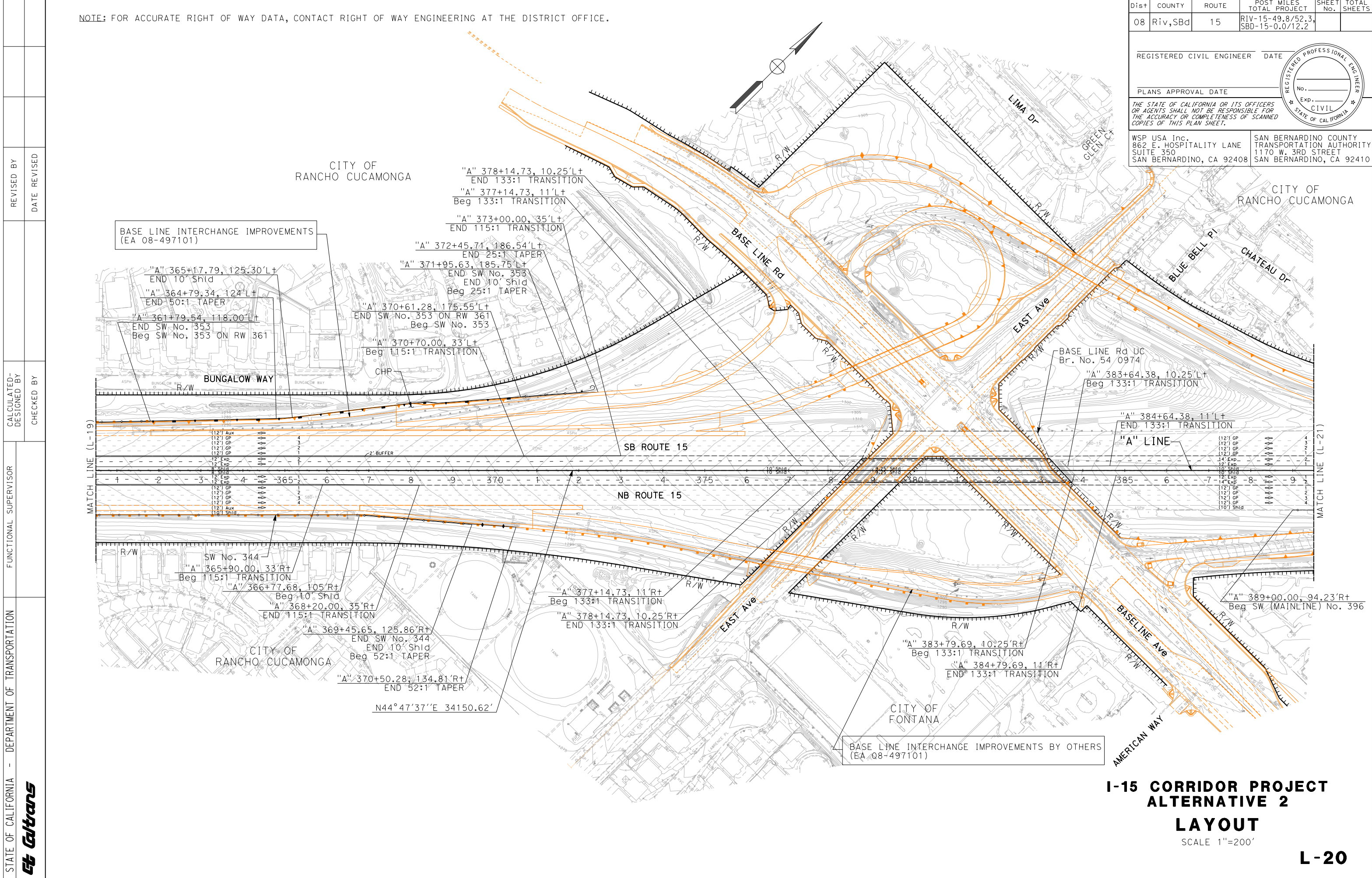
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 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.



WSP USA Inc.  
 862 E. HOSPITALITY LANE  
 SUITE 350  
 SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
 TRANSPORTATION AUTHORITY  
 1170 W. 3RD STREET  
 SAN BERNARDINO, CA 92410



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

FUNCTIONAL SUPERVISOR \_\_\_\_\_  
 CALCULATED-DESIGNED BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 REVISED BY \_\_\_\_\_  
 DATE REVISED \_\_\_\_\_

**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 LAYOUT**  
 SCALE 1"=200'

**L-20**

LAST REVISION DATE PLOTTED => 31-JUL-2018 00-00-00 TIME PLOTTED => 11:14



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		

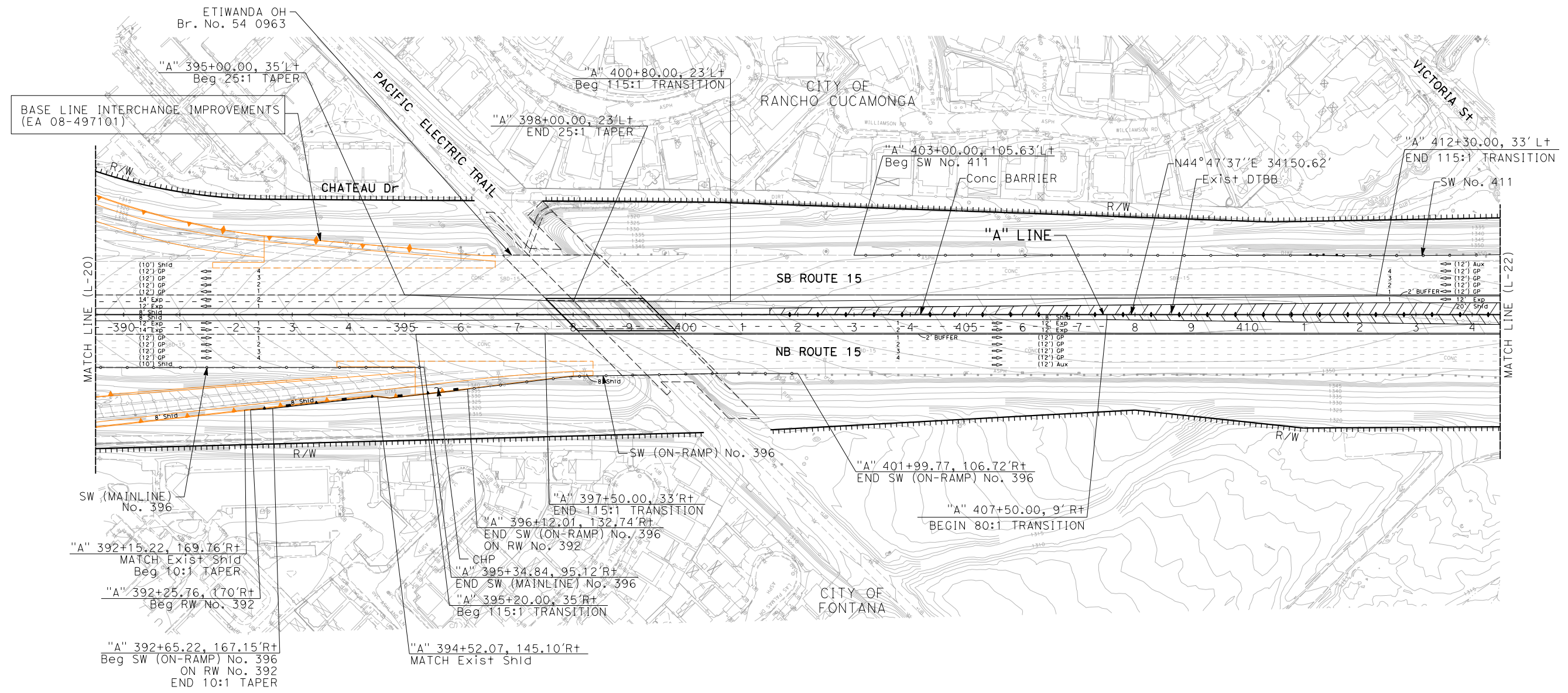
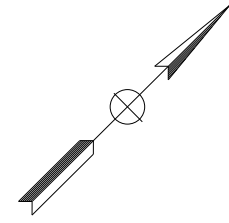
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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.

WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-21**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans**

FUNCTIONAL SUPERVISOR

CHECKED BY

DESIGNED BY

REVISOR BY

DATE REVISION



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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		


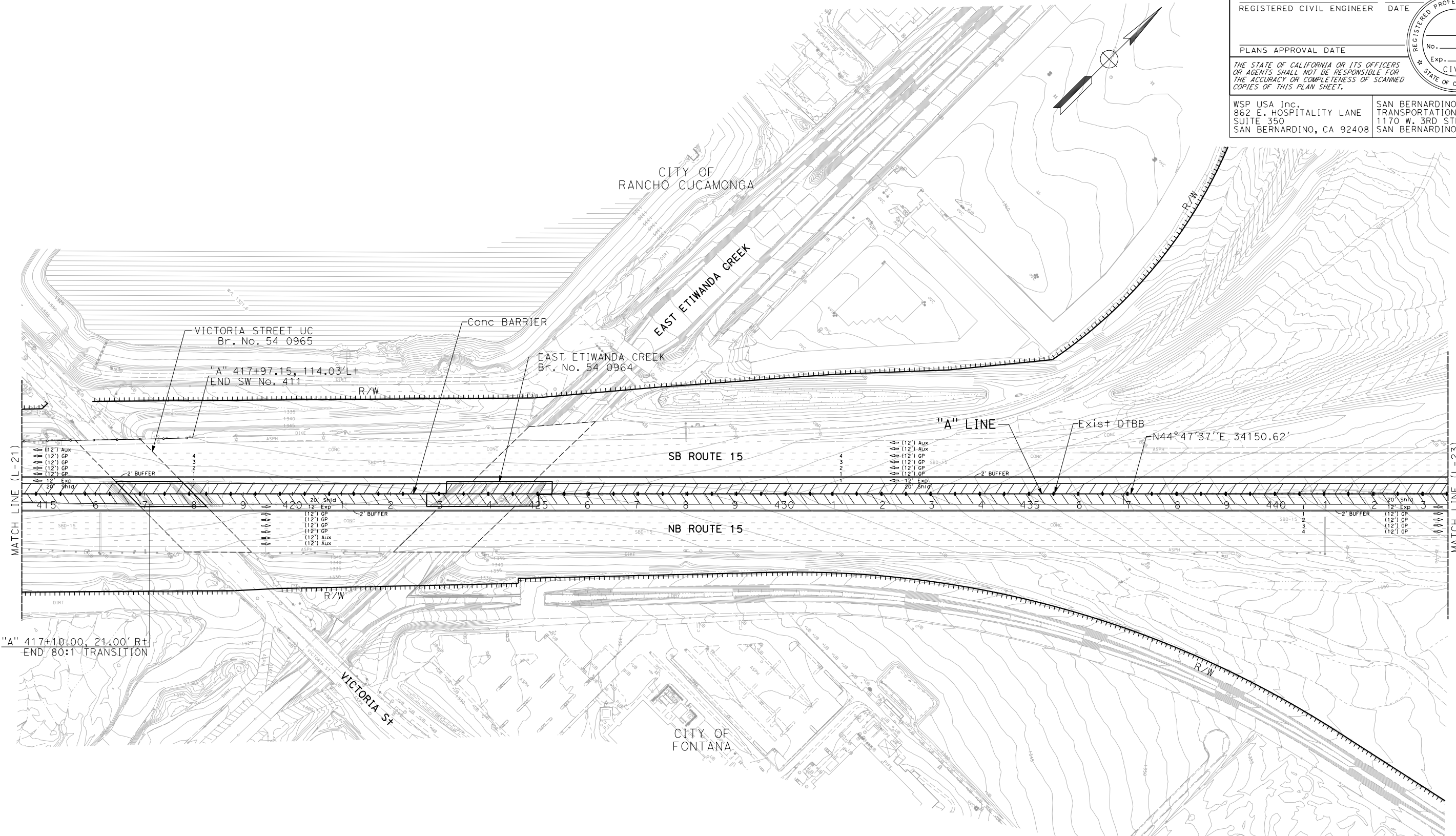
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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.

WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-22**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
<b>Caltrans</b>		CHECKED BY	DATE REVISOR

USERNAME => rodriguez  
DGN FILE => 080R800-ea22.dgn

UNIT 0000

PROJECT NUMBER & PHASE

EA 08-0R800

PROJECT ID: 0812000184

BORDER LAST REVISED 7/2/2010

LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 11:14



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

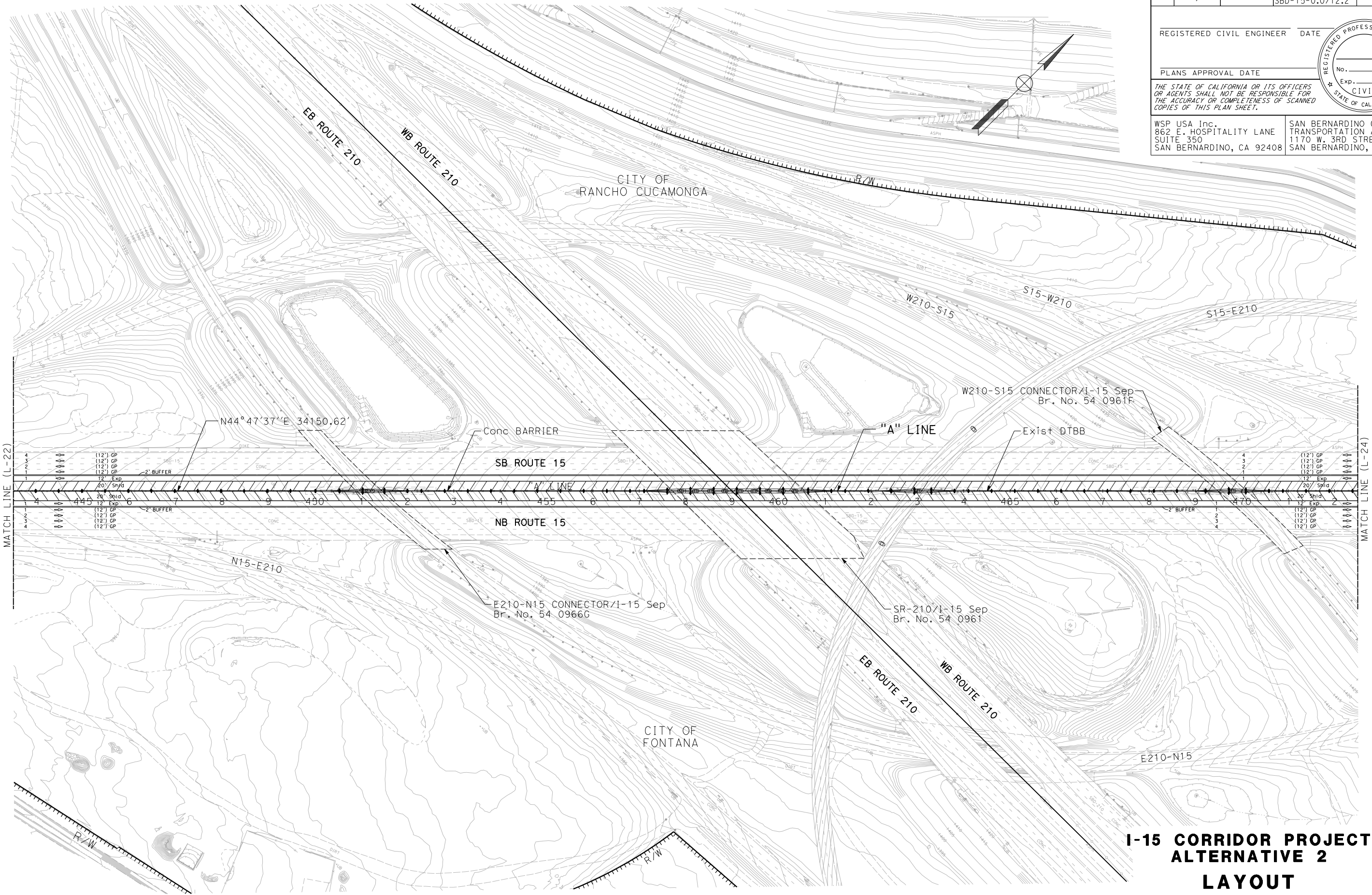
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-23**

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

REVISOR BY  
DATE REVISED

CALCULATED-DESIGNED BY  
CHECKED BY

FUNCTIONAL SUPERVISOR

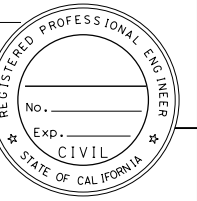
DATE PLOTTED => 31-JUL-2018  
TIME PLOTTED => 11:14



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

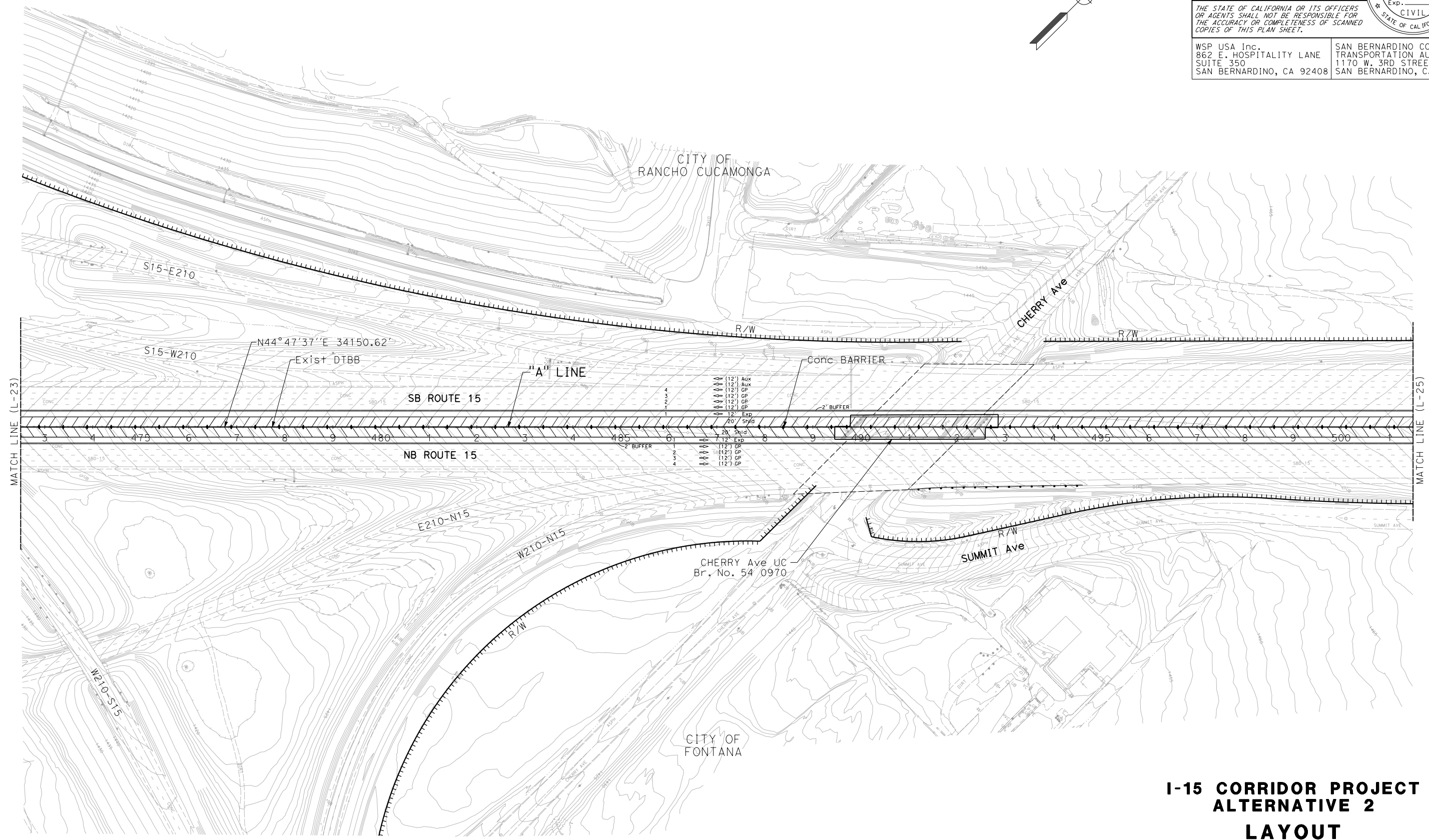
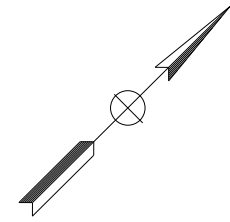
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 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.



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 TRANSPORTATION AUTHORITY  
 1170 W. 3RD STREET  
 SAN BERNARDINO, CA 92410



**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 LAYOUT**  
 SCALE 1"=200'

**L-24**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
<b>Et Caltrans</b>		CHECKED BY	DATE REVISED

LAST REVISION      DATE PLOTTED => 31-JUL-2018  
 00-00-00      TIME PLOTTED => 11:14

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52.3, SBD-15-0.0/12.2		

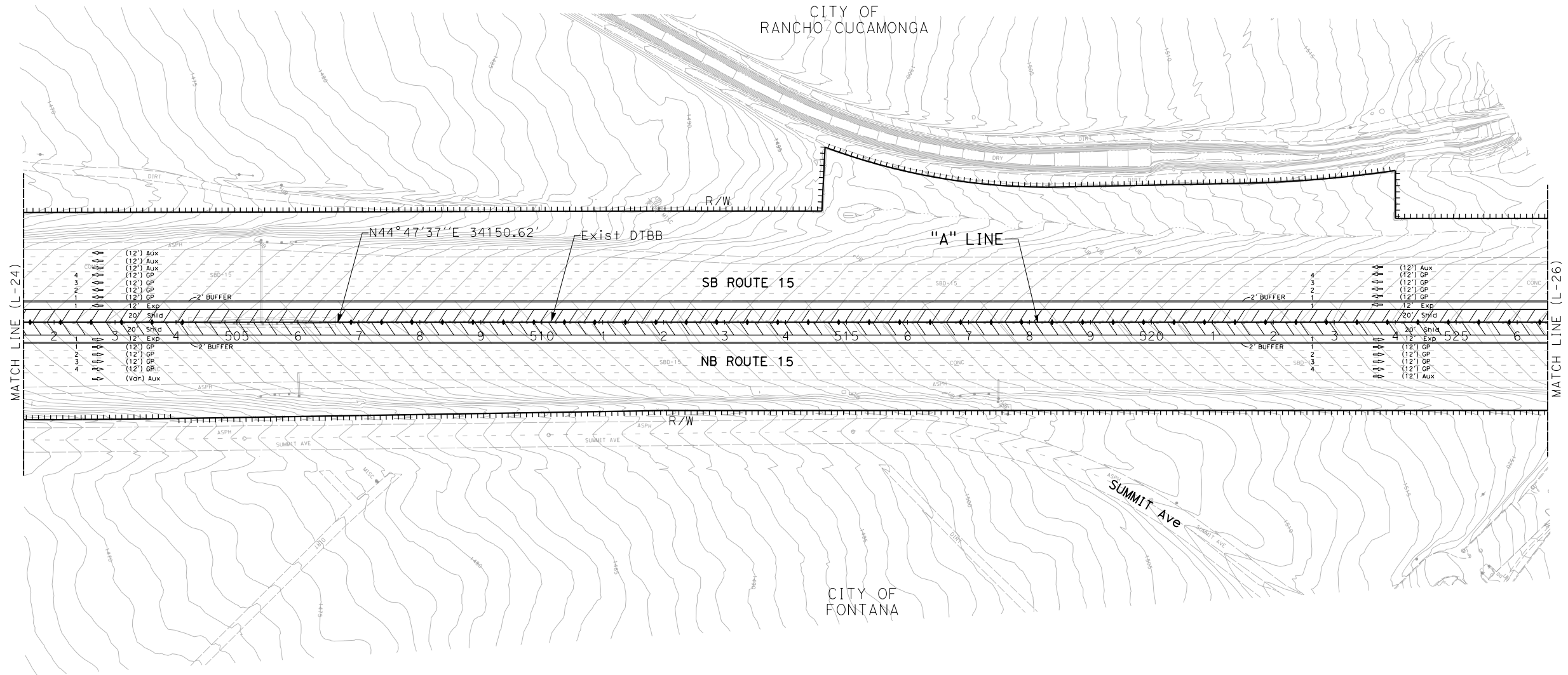
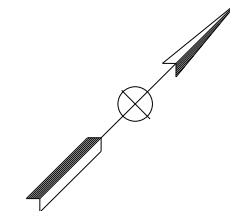
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-25**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
<b>Caltrans</b>		CHECKED BY	DATE REVISED



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0-0/12.2		

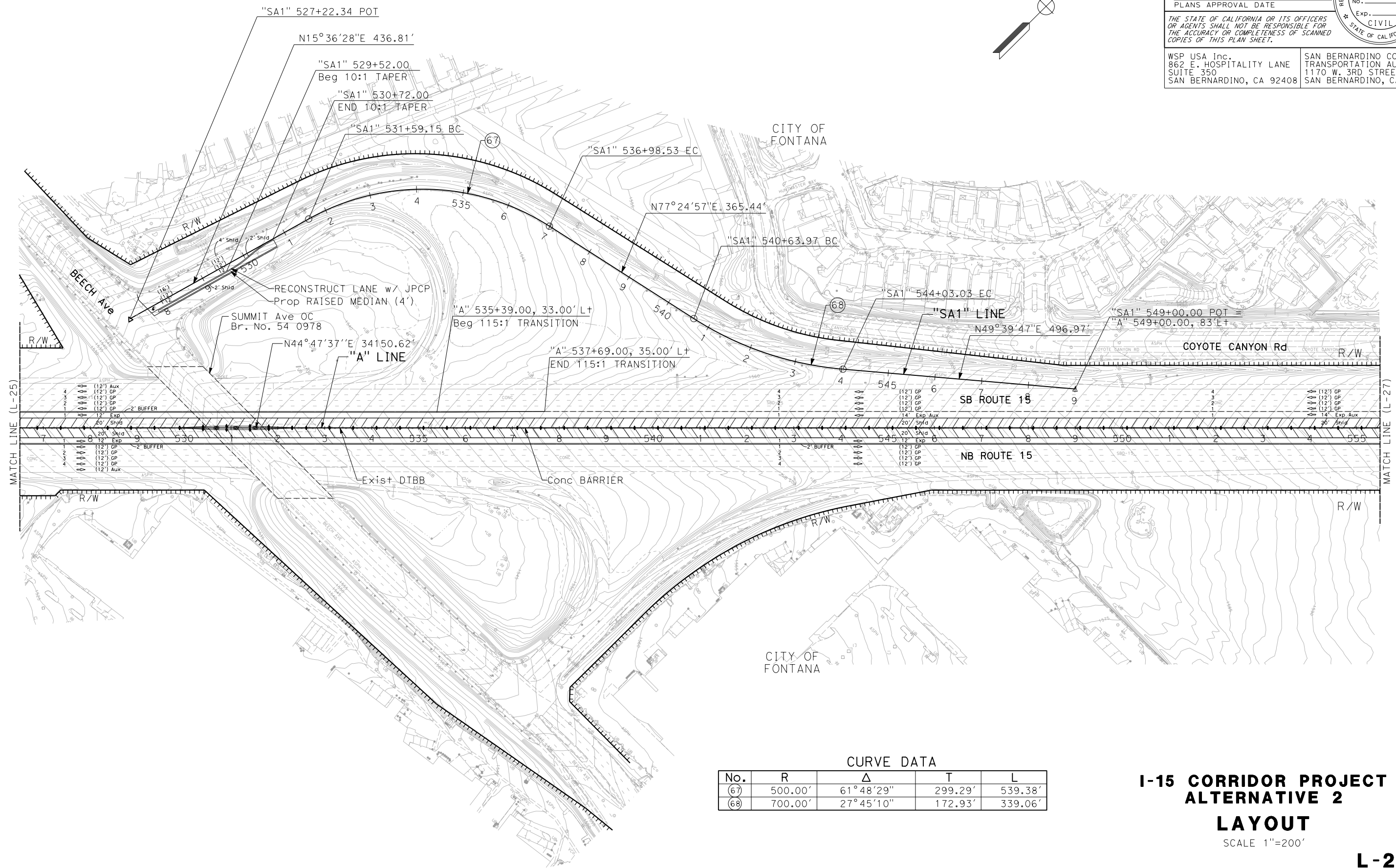
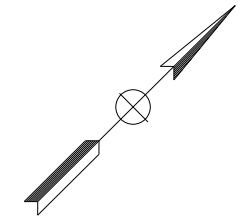
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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.

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SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



**CURVE DATA**

No.	R	Δ	T	L
(67)	500.00'	61°48'29"	299.29'	539.38'
(68)	700.00'	27°45'10"	172.93'	339.06'

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-26**

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

LAST REVISION      DATE PLOTTED => 31-JUL-2018  
 00-00-00      TIME PLOTTED => 11:14



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

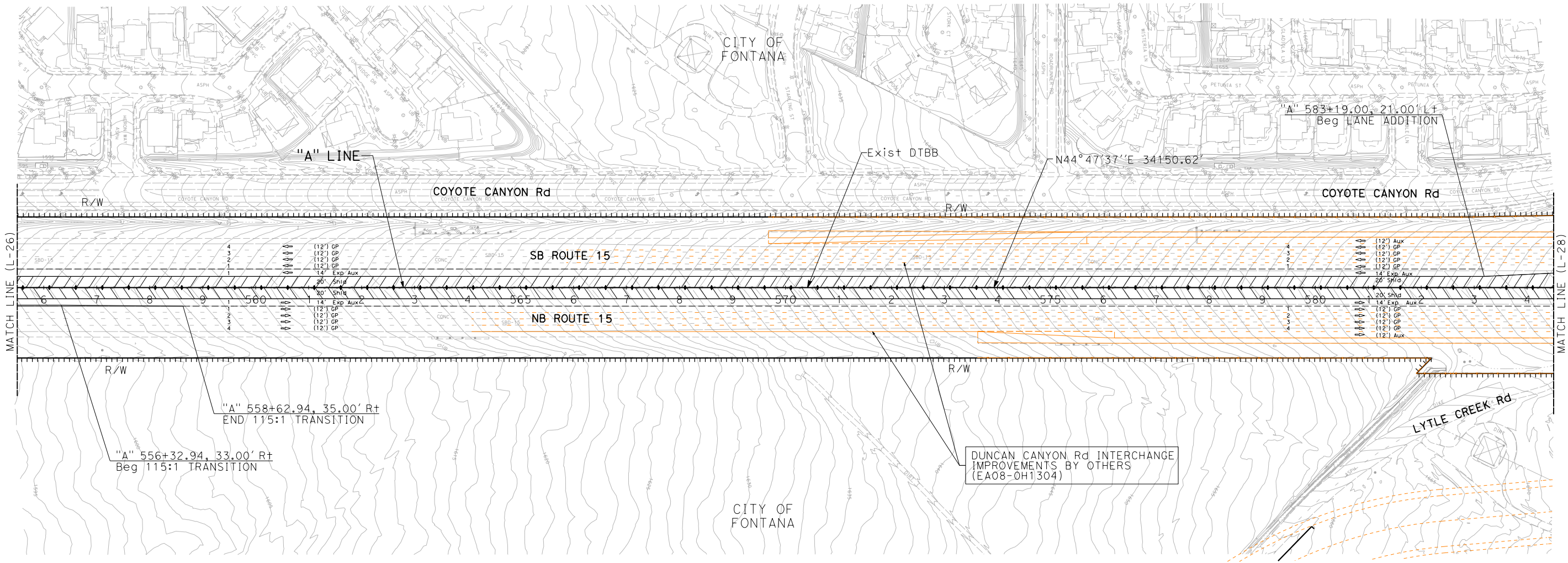
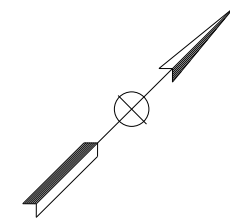
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-27**

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

REVISOR: \_\_\_\_\_  
DATE: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
FUNCTIONAL SUPERVISOR: \_\_\_\_\_

LAST REVISION: 00-00-00 DATE PLOTTED => 31-JUL-2018 TIME PLOTTED => 11:14



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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

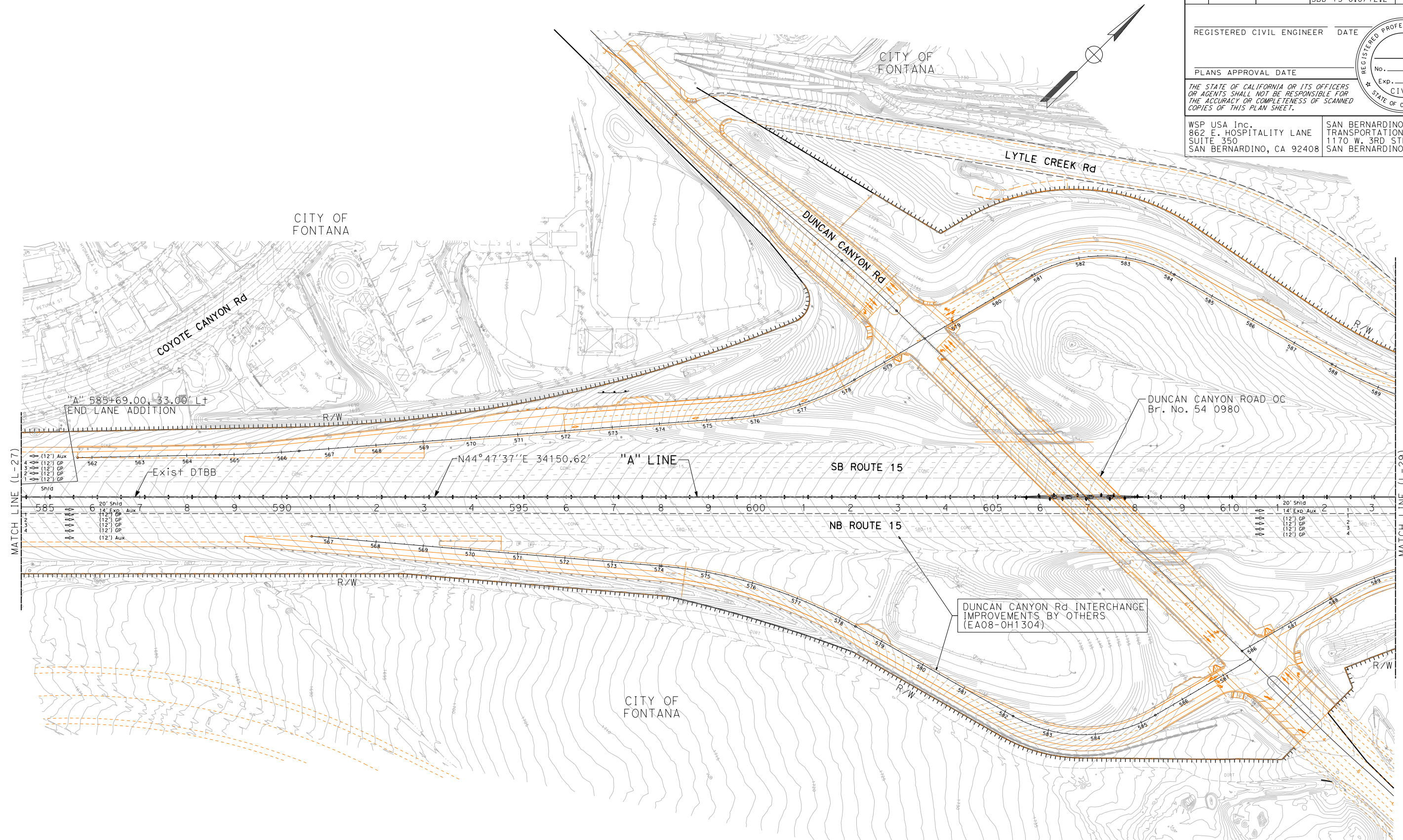
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-28**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
<b>Caltrans</b>		CHECKED BY	DATE REVISED

USERNAME => rodriguez  
DGN FILE => 080R800-ea28.dgn

UNIT 0000

PROJECT NUMBER & PHASE

EA 08-0R800

PROJECT ID: 0812000184

LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 11:14



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

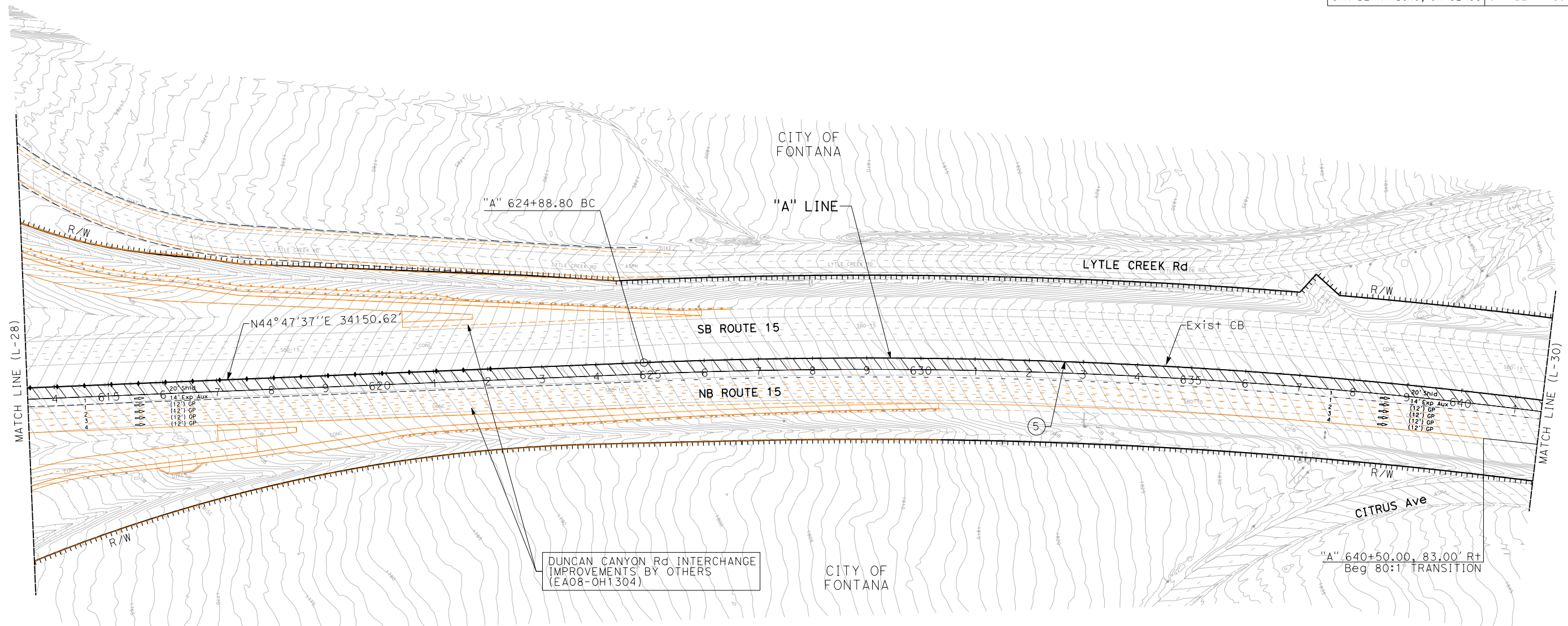
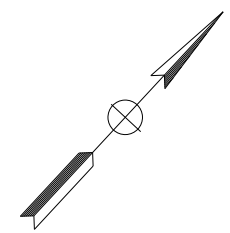
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



DUNCAN CANYON Rd INTERCHANGE IMPROVEMENTS BY OTHERS (EA08-OH1304)

CURVE DATA

No.	R	Δ	T	L
(5)	10000.00'	10°45'49"	942.08'	1878.62'

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-29**

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

LAST REVISION   
 DATE PLOTTED => 31-JUL-2018   
 00-00-00   
 TIME PLOTTED => 11:14

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

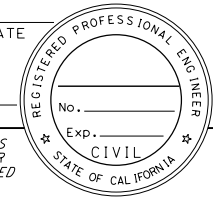
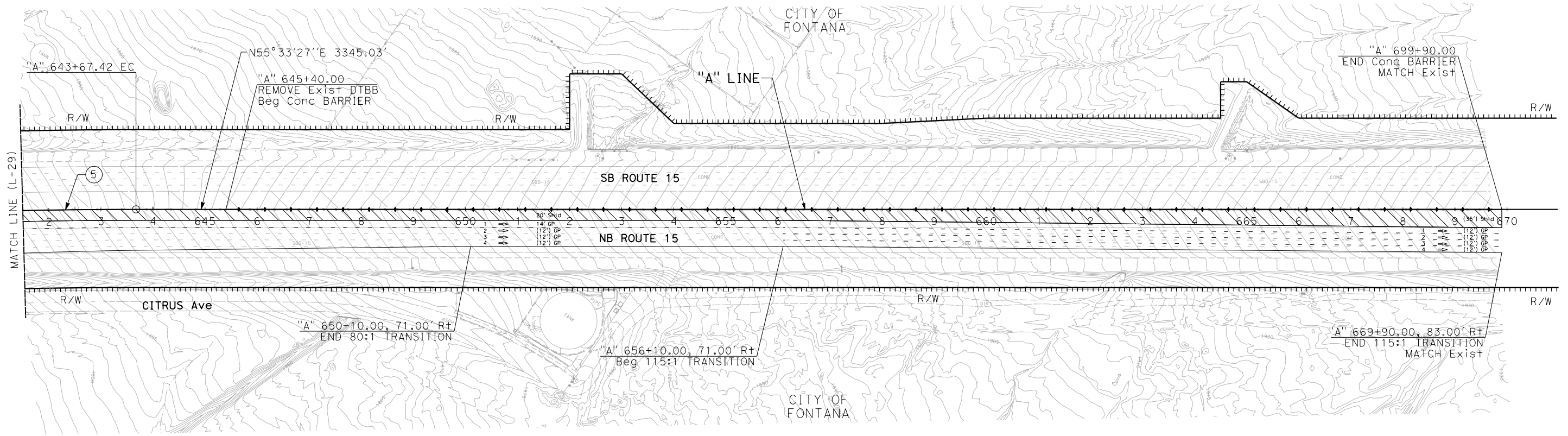
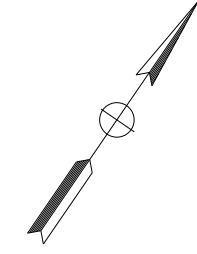
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

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WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410





CURVE DATA

No.	R	Δ	T	L
(5)	10000.00'	10°45'49"	942.08'	1878.62'

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
LAYOUT**  
SCALE 1"=200'

**L-30**

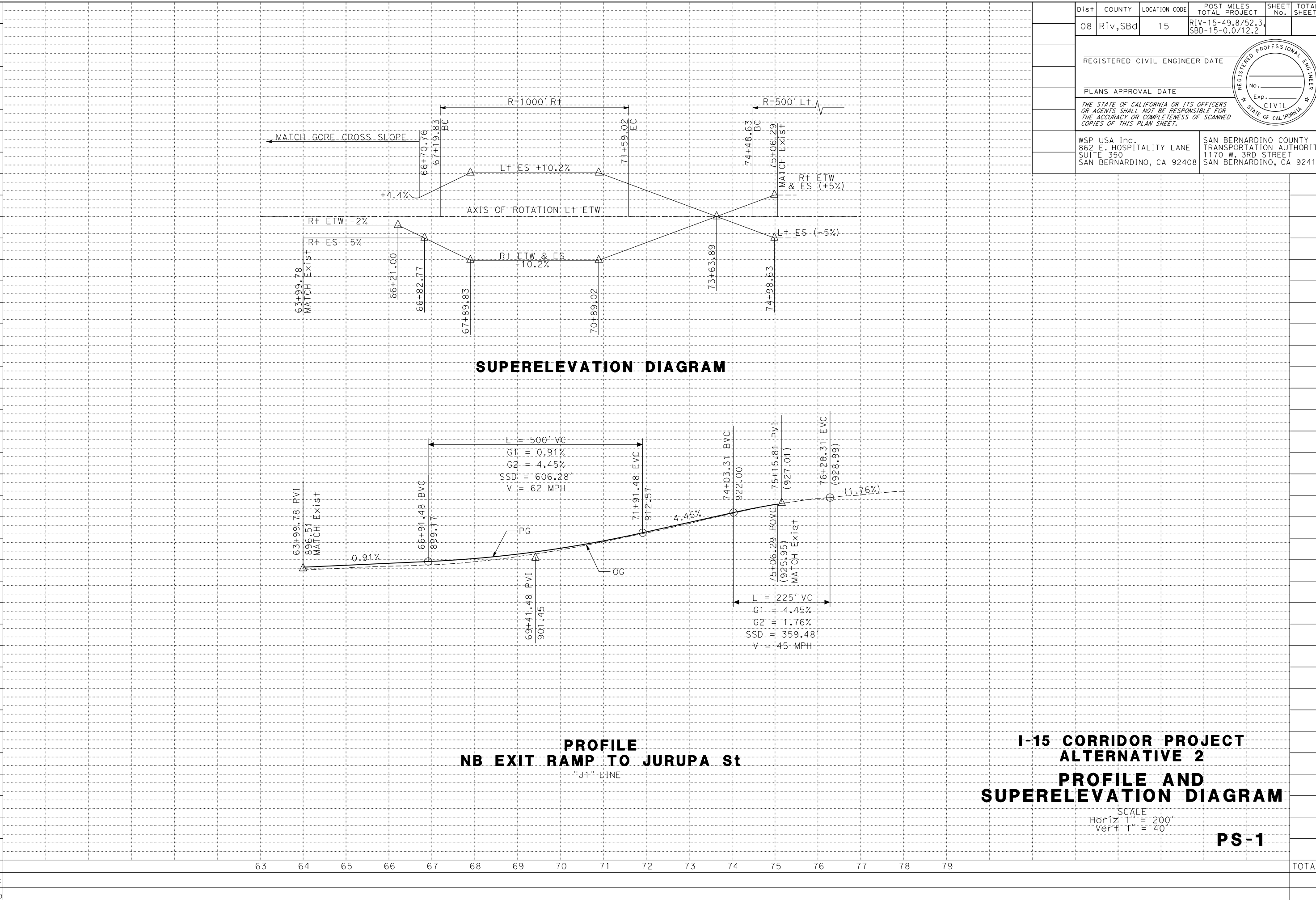
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
  
 FUNCTIONAL SUPERVISOR  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 REVISED BY  
 DATE REVISED

LAST REVISION    DATE PLOTTED => 31-JUL-2018  
 00-00-00    TIME PLOTTED => 11:15

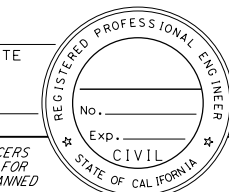


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

STATION 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79



Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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.					
WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		



**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 PROFILE AND  
 SUPERELEVATION DIAGRAM**

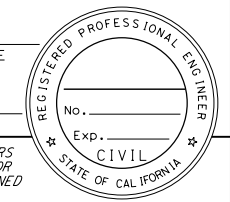
SCALE  
 Horiz 1" = 200'  
 Vert 1" = 40'

**PS-1**

LAST REVISION DATE PLOTTED => 31-JUL-2018  
 00-00-00 TIME PLOTTED => 15:52

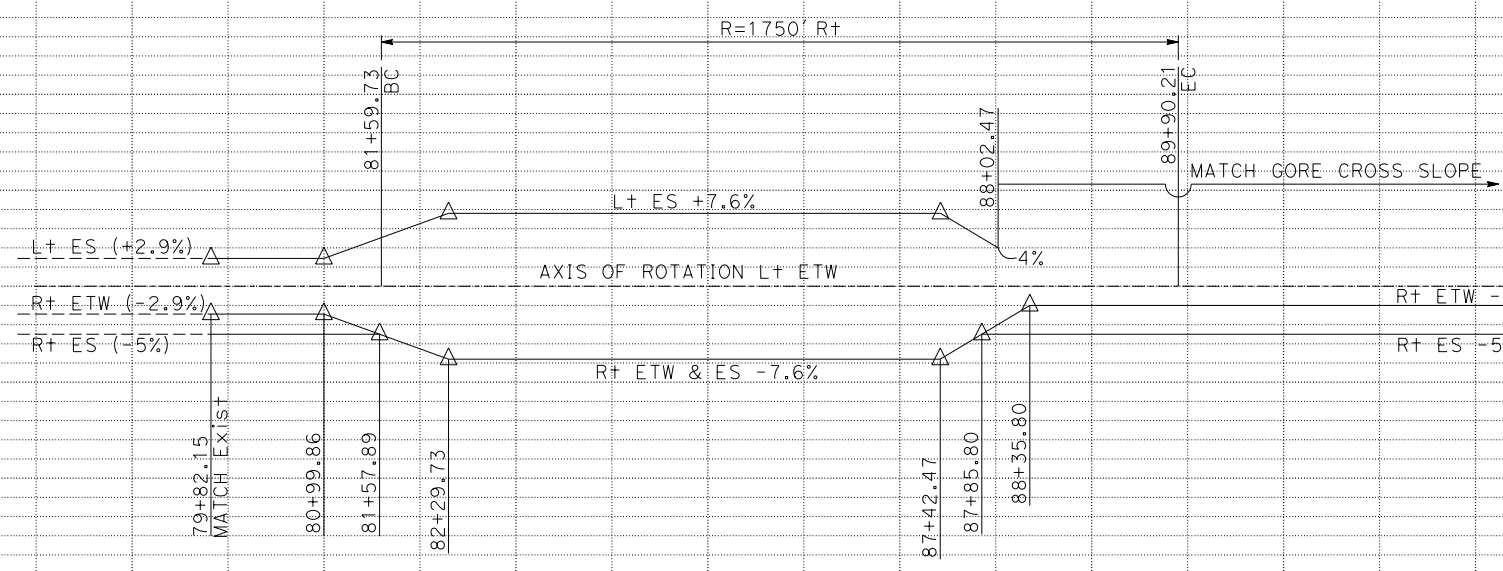
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 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.

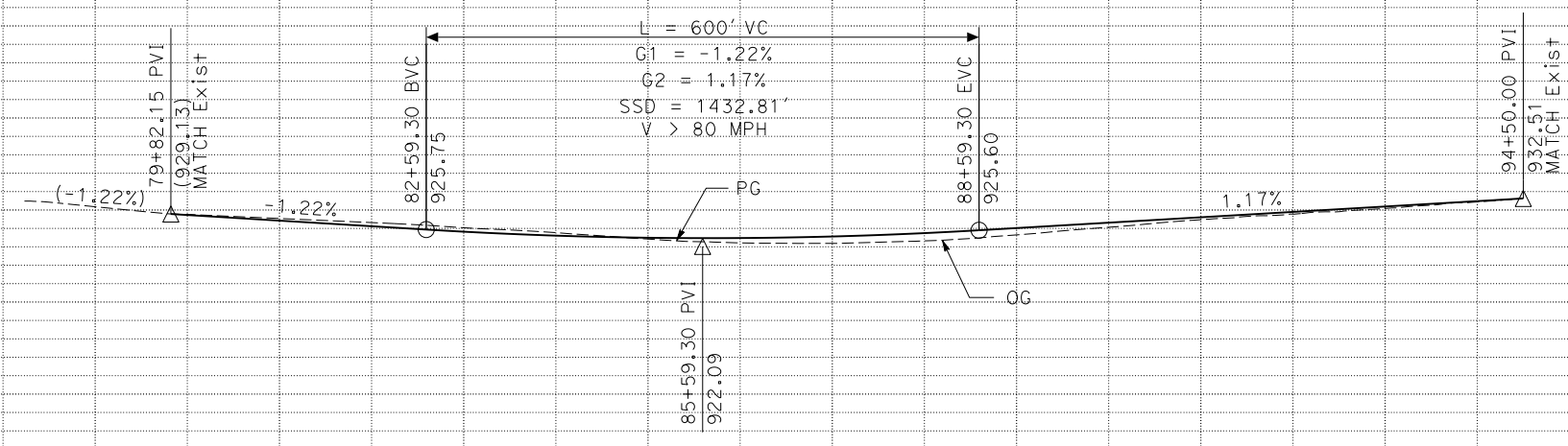


WSP USA Inc.  
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 SUITE 350  
 SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
 TRANSPORTATION AUTHORITY  
 1170 W. 3RD STREET  
 SAN BERNARDINO, CA 92410



**SUPERELEVATION DIAGRAM**



**PROFILE  
 NB ENTRANCE RAMP FROM JURUPA St  
 "J2" LINE**

**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 PROFILE AND  
 SUPERELEVATION DIAGRAM**

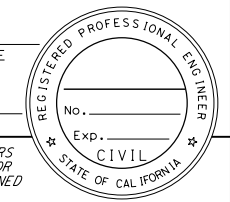
SCALE  
 Horiz 1" = 200'  
 Vert 1" = 40'

**PS-2**

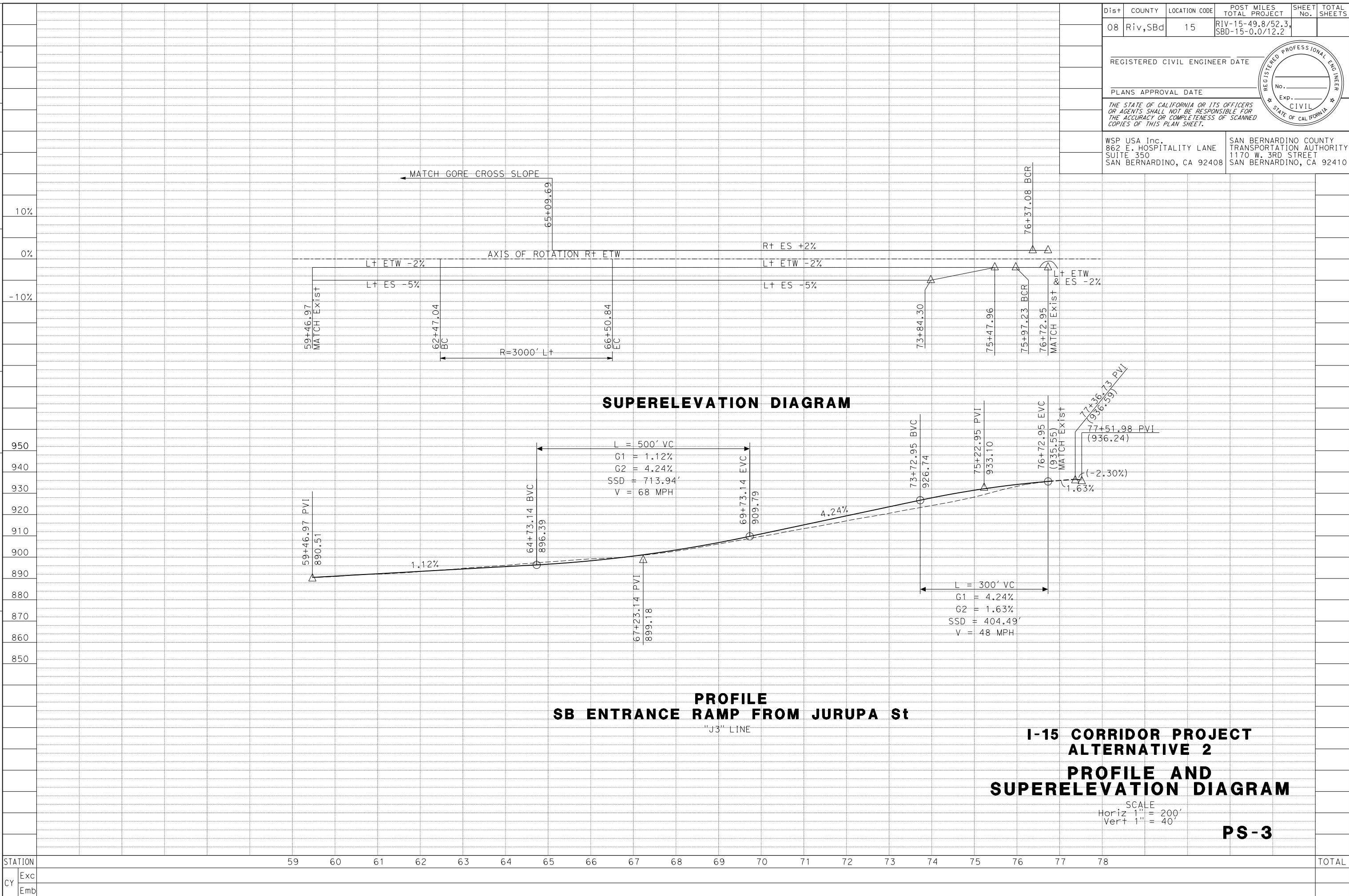
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY	REVISOR	DATE	REVISION
				DESIGNED BY	CHECKED BY	DATE
CY	Exc	Emb				

LAST REVISION DATE PLOTTED => 31-JUL-2018  
 00-00-00 TIME PLOTTED => 15:53

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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.					
WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		

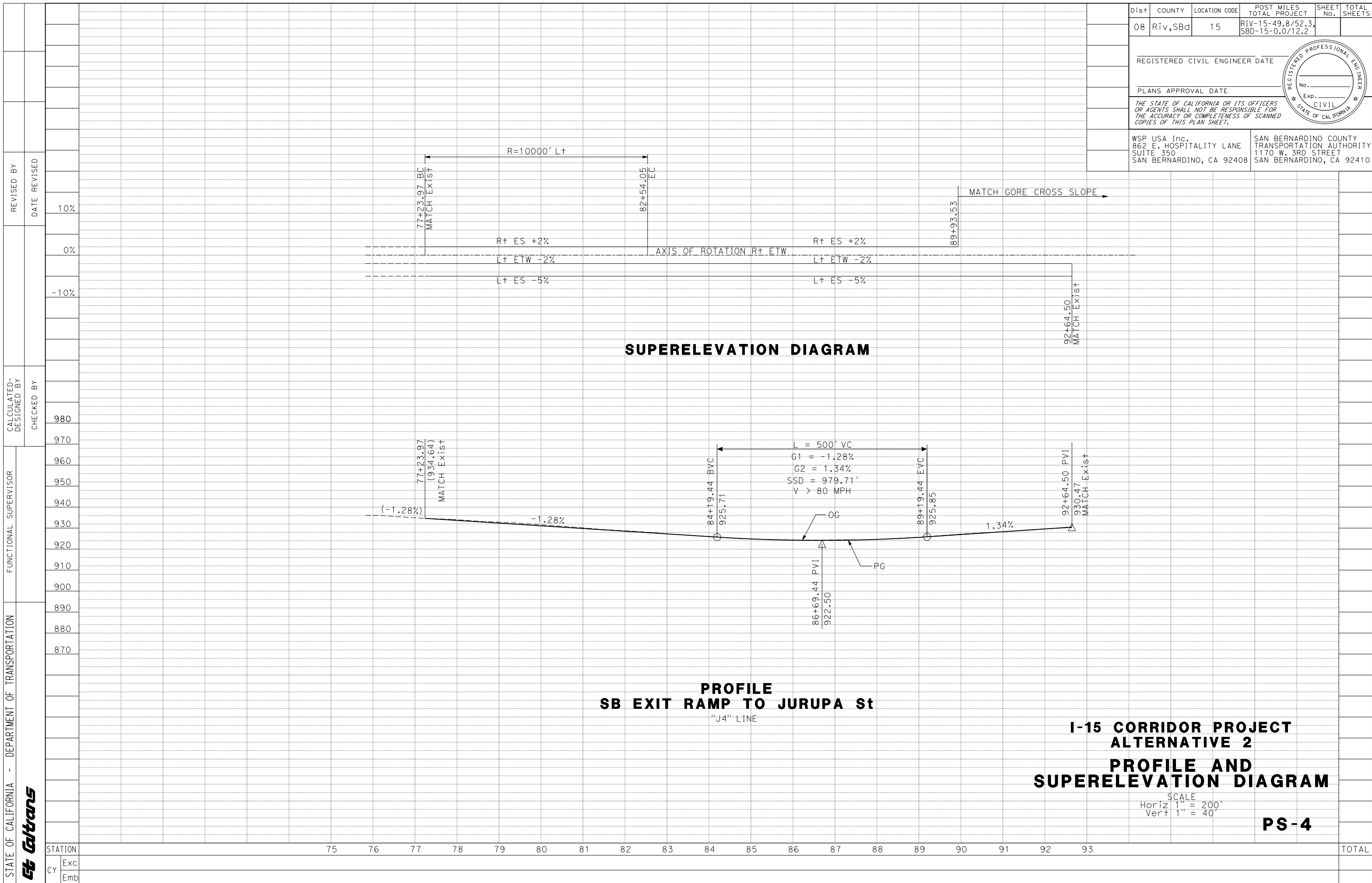
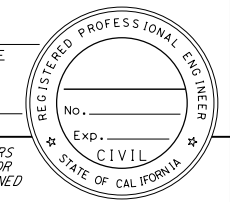


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR BY	DATE REVISOR
<b>Caltrans</b>				



LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 15:53

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, Sbd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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.					
WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		



**SUPERELEVATION DIAGRAM**

**PROFILE  
SB EXIT RAMP TO JURUPA St  
"J4" LINE**

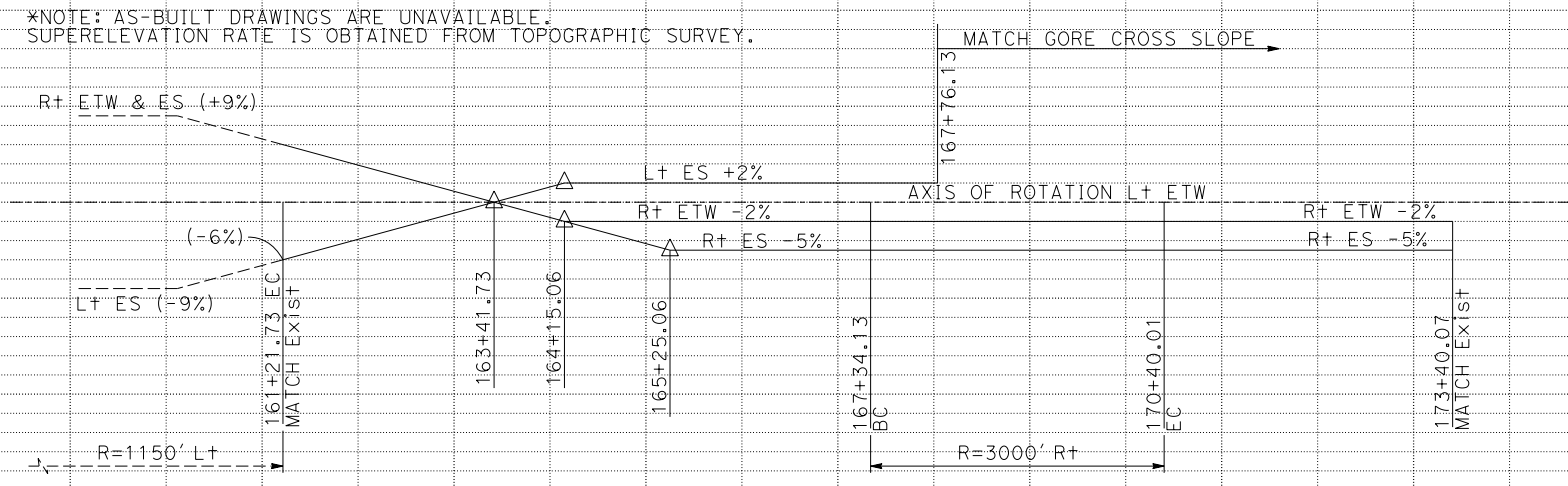
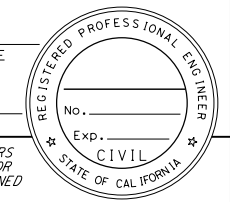
**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
PROFILE AND  
SUPERELEVATION DIAGRAM**

SCALE  
Horiz 1" = 200'  
Vert 1" = 40'

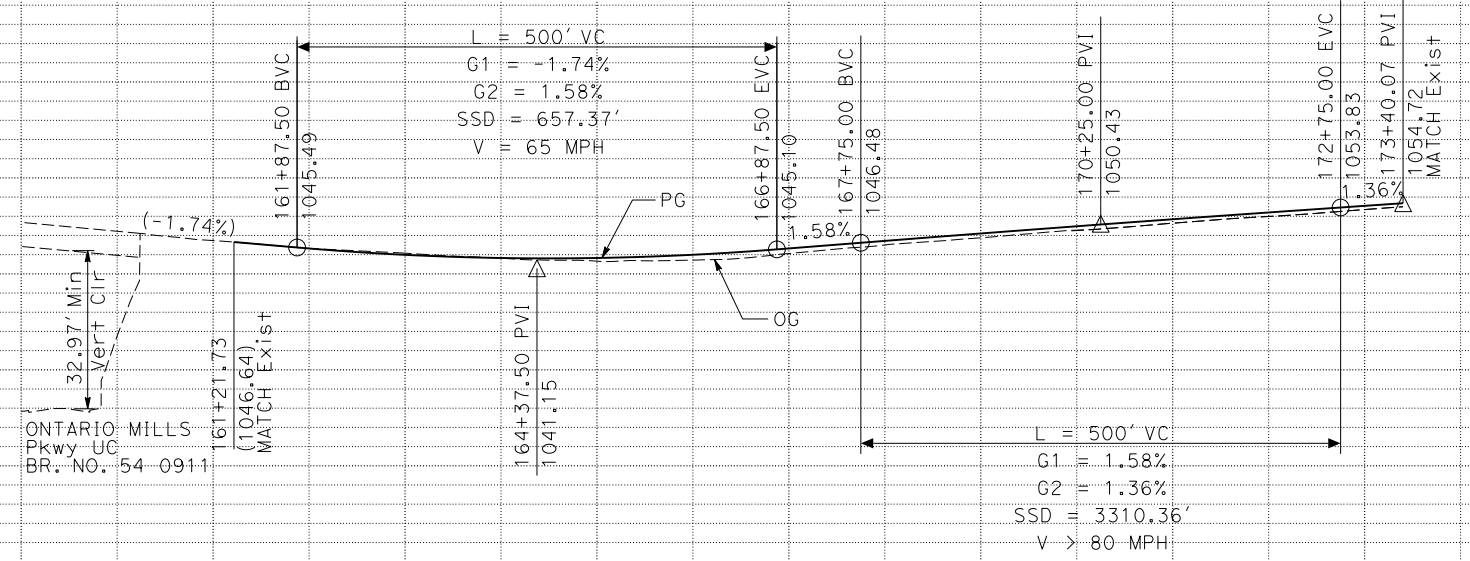
**PS-4**

LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 15:53

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
<small>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.</small>					
WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		



**SUPERELEVATION DIAGRAM**



**PROFILE  
E10-N15 CONNECTOR  
"E10-N15" LINE**

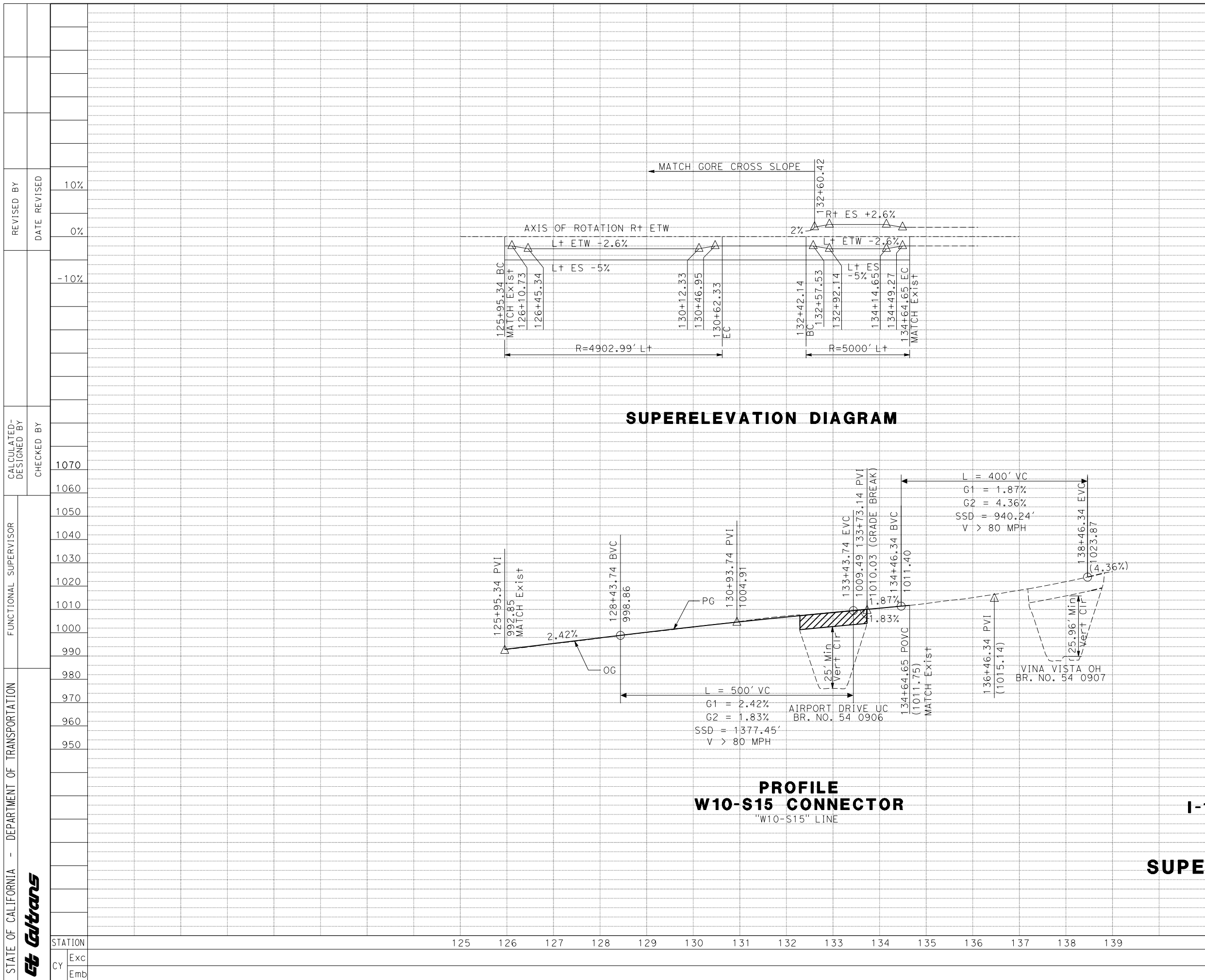
**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
PROFILE AND  
SUPERELEVATION DIAGRAM**

SCALE  
Horiz 1" = 200'  
Vert 1" = 40'

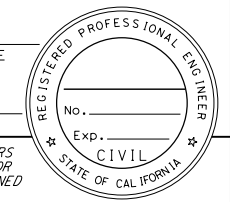
**PS-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
<b>Caltrans</b>		CHECKED BY	DATE REVISED
STATION	Exc		
CY	Emb		

LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 15:53



Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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.					
WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		



REVISED BY	DATE REVISED	10%
		0%
CALCULATED-DESIGNED BY	CHECKED BY	1070
		1060
FUNCTIONAL SUPERVISOR	DEPARTMENT OF TRANSPORTATION	1050
		1040
		1030
		1020
		1010
		1000
		990
		980
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Et Caltrans	970
		960
		950
		940
		930
STATION	Exc	125
CY	Emb	126
		127
		128
		129
		130
		131
		132
		133
		134
		135
		136
		137
		138
		139
		TOTAL

**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 PROFILE AND  
 SUPERELEVATION DIAGRAM**

SCALE  
 Horiz 1" = 200'  
 Vert 1" = 40'

**PS-6**

LAST REVISION DATE PLOTTED => 31-JUL-2018  
 00-00-00 TIME PLOTTED => 15:53

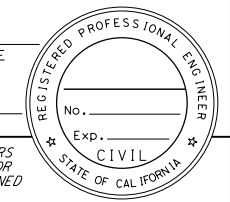


Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBD	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

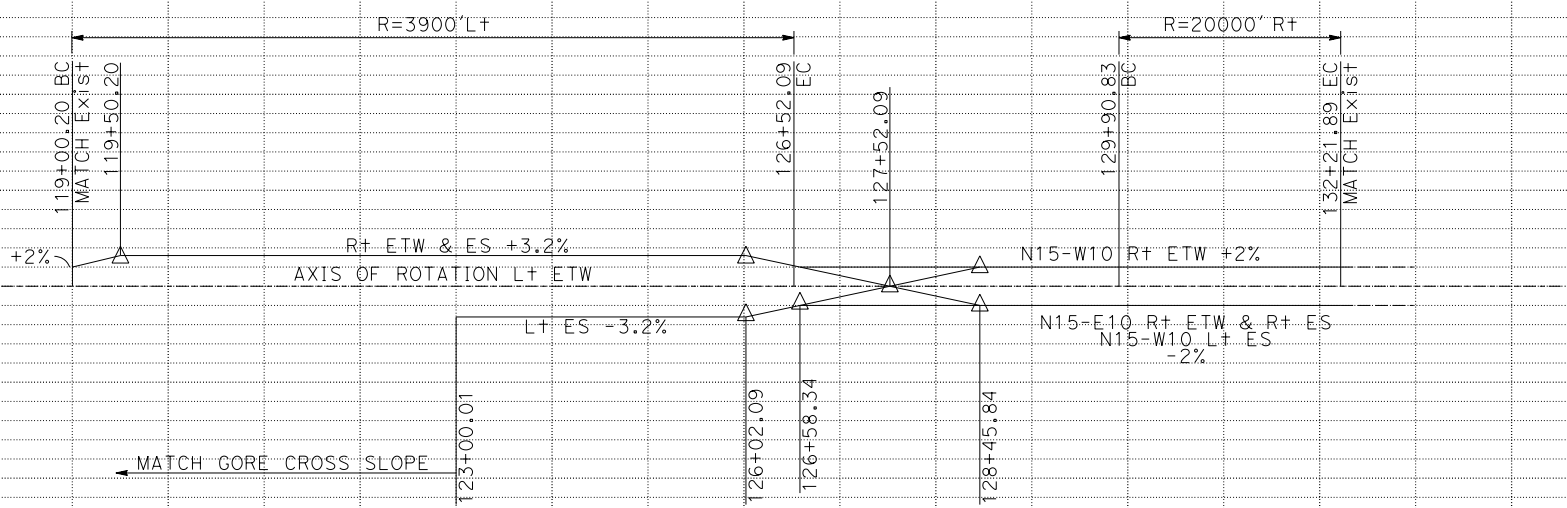
PLANS APPROVAL DATE \_\_\_\_\_

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.

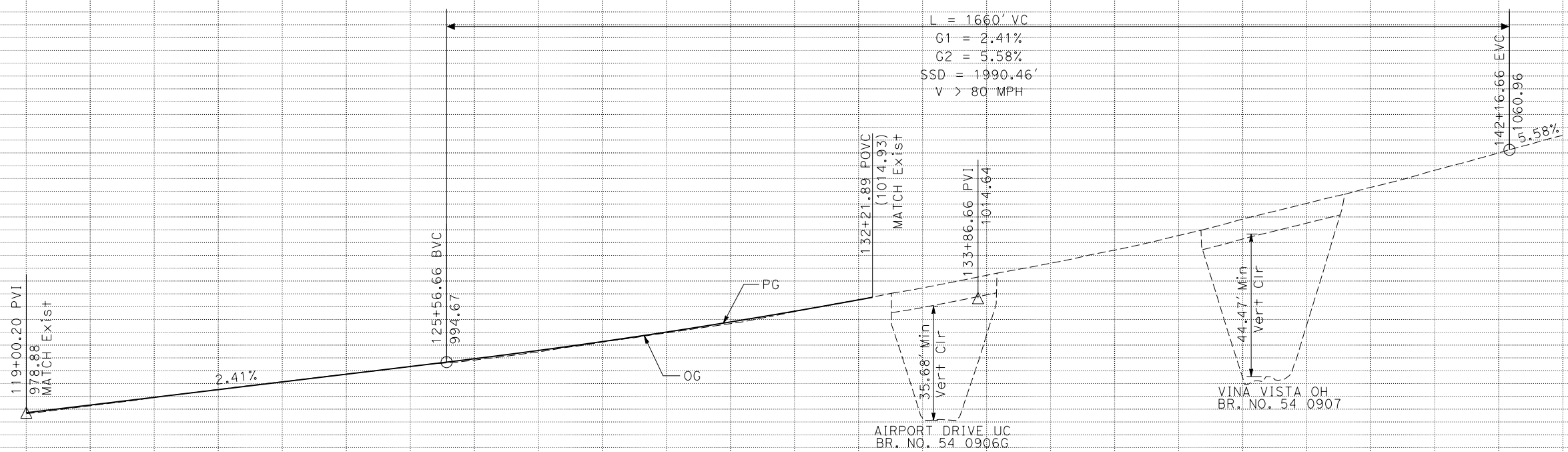


WSP USA Inc.  
862 E. HOSPITALITY LANE  
SUITE 350  
SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410



**SUPERELEVATION DIAGRAM**



**PROFILE  
N15-W/E10 CONNECTORS**

"N10-W/E15" LINE

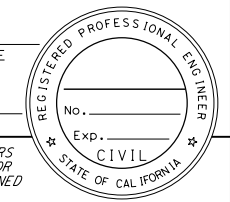
**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
PROFILE AND  
SUPERELEVATION DIAGRAM**

SCALE  
Horiz 1" = 200'  
Vert 1" = 40'

**PS-7**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION <b>Caltrans</b>	FUNCTIONAL SUPERVISOR	CHECKED BY	CALCULATED-DESIGNED BY	REVISOR	DATE	REVISION																					
STATION	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	TOTAL
CY	Exc																										
	Emb																										

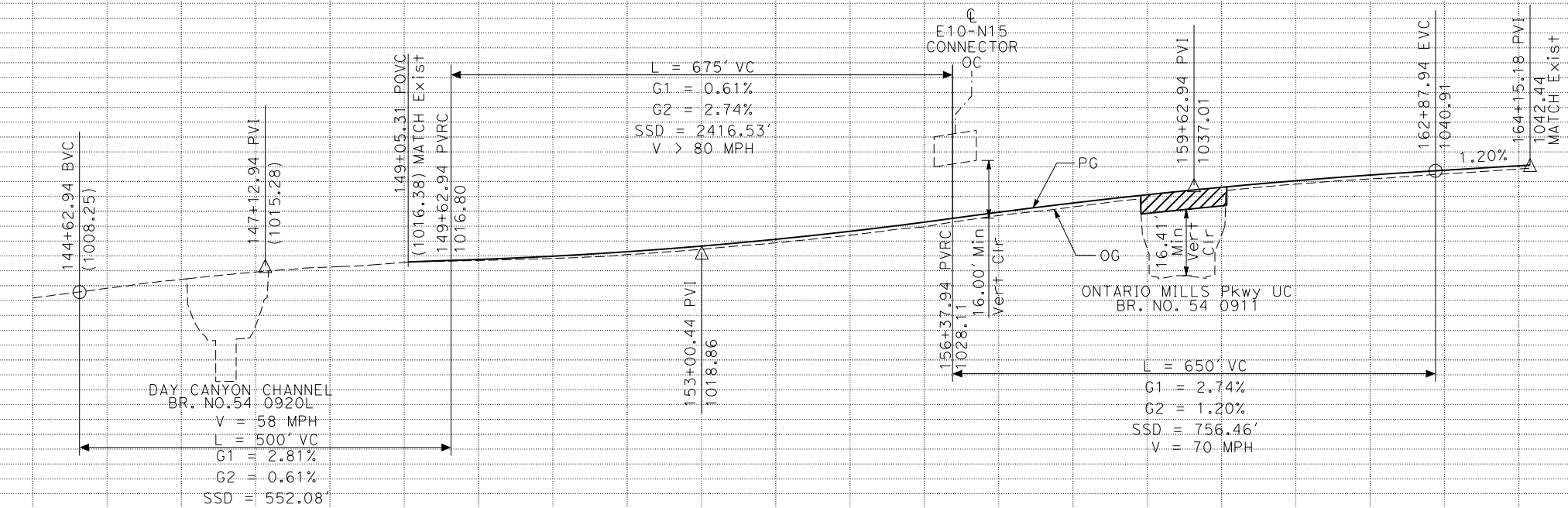
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
Exc				
Emd				



**SUPERELEVATION DIAGRAM**



**PROFILE  
W10-N15 CONNECTOR**  
"W10-N15" LINE

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
PROFILE AND  
SUPERELEVATION DIAGRAM**

SCALE  
Horiz 1" = 200'  
Vert 1" = 40'

**PS-8**

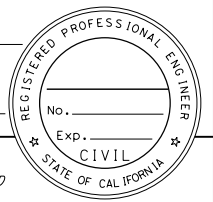
LAST REVISION      DATE PLOTTED => 31-JUL-2018      TIME PLOTTED => 15:53

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

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

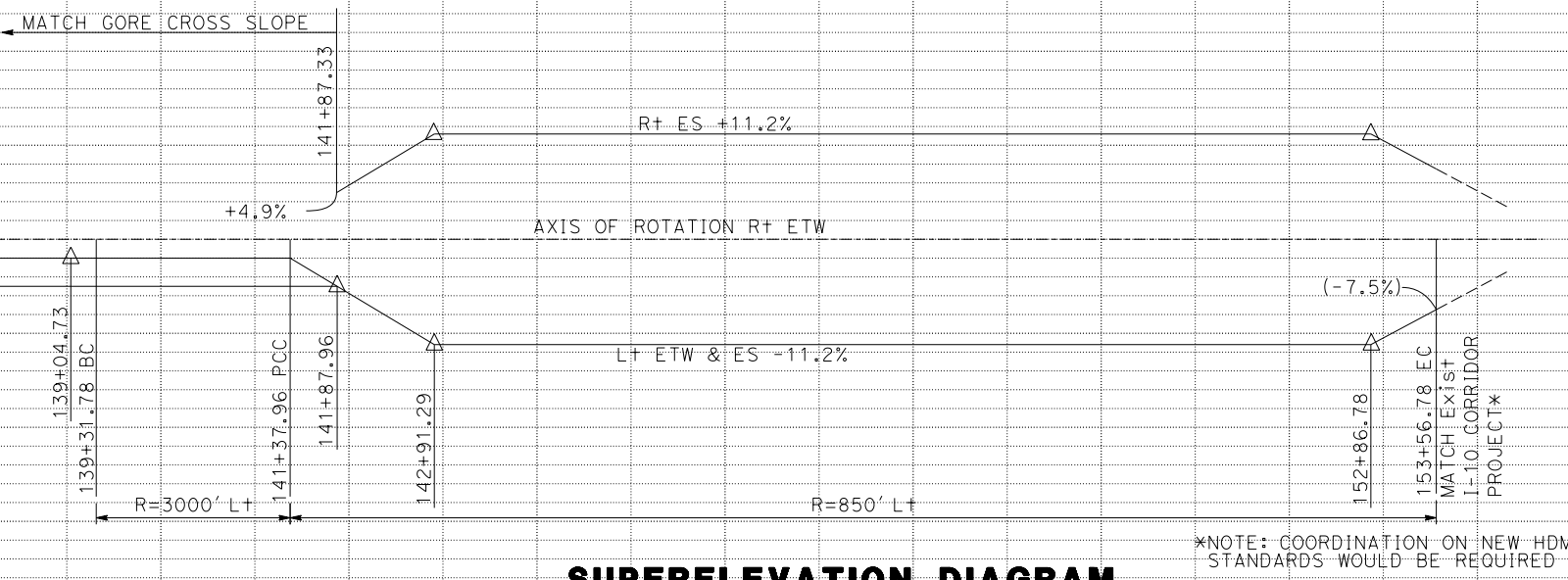
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



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SAN BERNARDINO, CA 92408

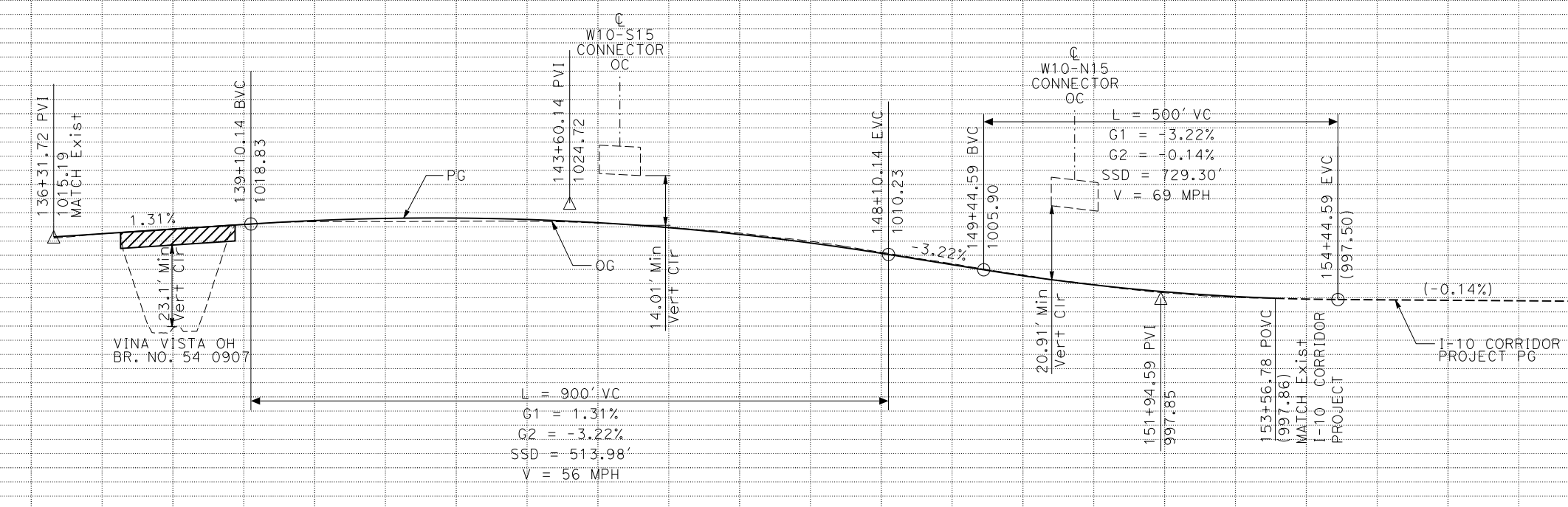
SAN BERNARDINO COUNTY  
TRANSPORTATION AUTHORITY  
1170 W. 3RD STREET  
SAN BERNARDINO, CA 92410

REVISIONS	REVISOR	DATE	REVISION
CALCULATED-DRAWN	CALCULATED BY	DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR			
DEPARTMENT OF TRANSPORTATION			
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION			
STATION	Exc	Emd	TOTAL



\*NOTE: COORDINATION ON NEW HDM STANDARDS WOULD BE REQUIRED

**SUPERELEVATION DIAGRAM**



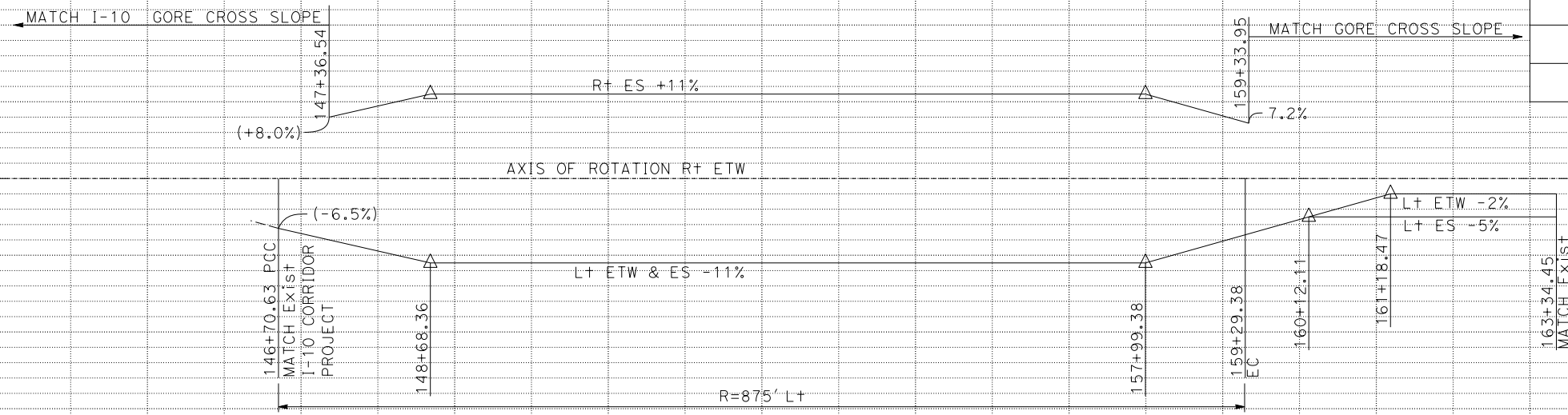
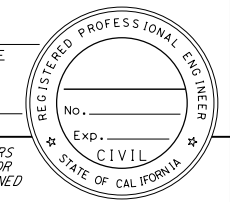
**PROFILE E10-S15 CONNECTOR**  
"E10-S15" LINE

**I-15 CORRIDOR PROJECT ALTERNATIVE 2 PROFILE AND SUPERELEVATION DIAGRAM**

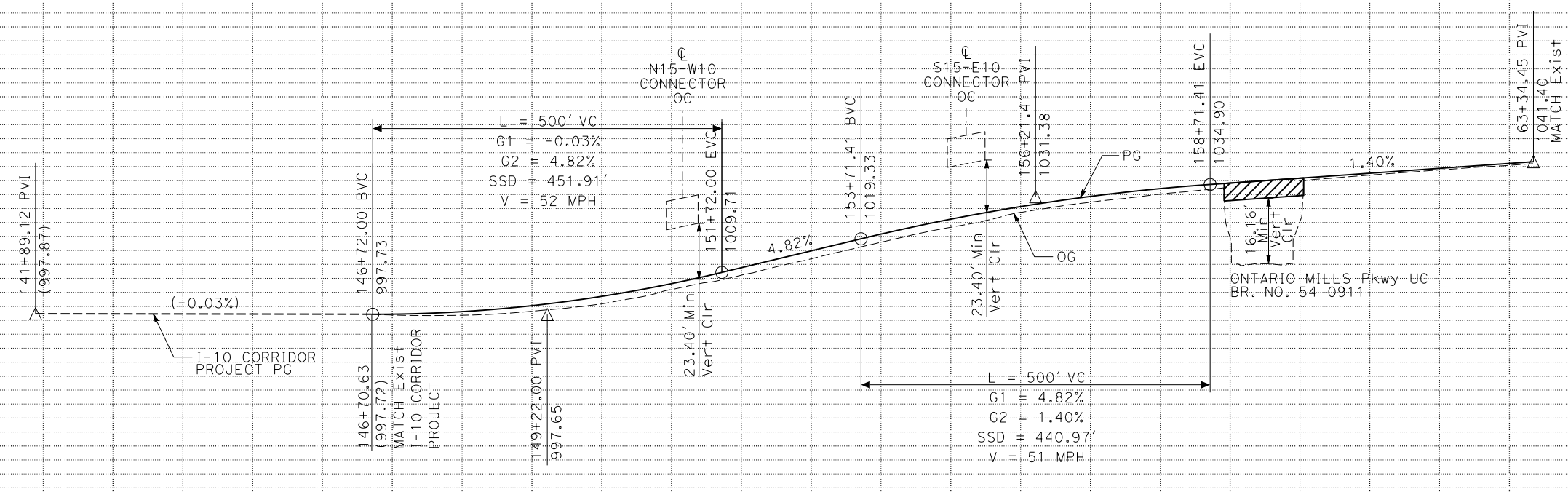
SCALE  
Horiz 1" = 200'  
Vert 1" = 40'

**PS-9**

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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.					
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**SUPERELEVATION DIAGRAM**



**PROFILE  
S15-W10 CONNECTOR**  
"S15-W10" LINE

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
PROFILE AND  
SUPERELEVATION DIAGRAM**

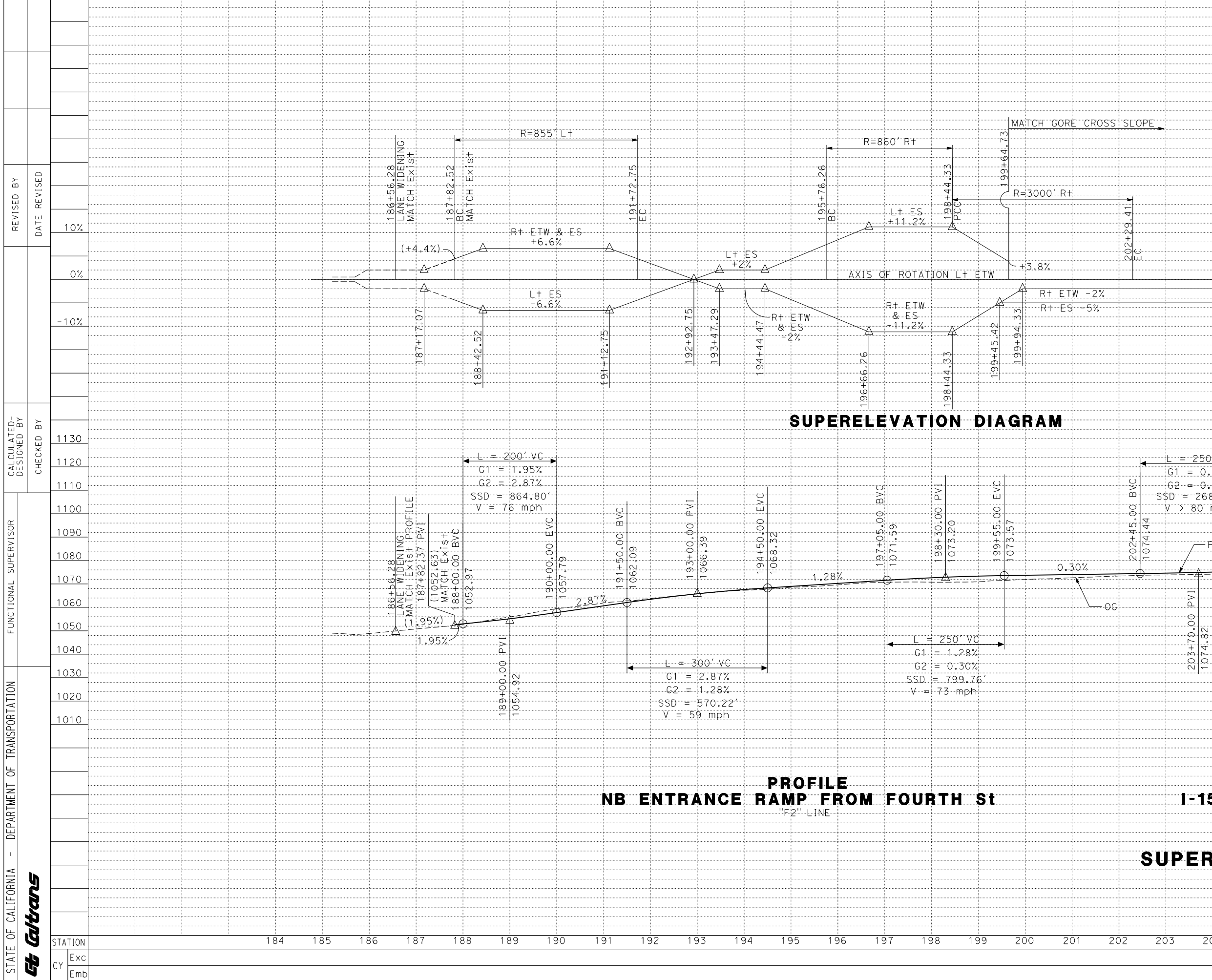
SCALE  
Horiz 1" = 200'  
Vert 1" = 40'

**PS-10**

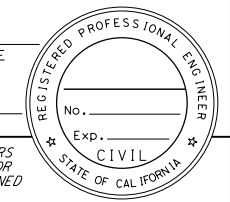
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CHECKED BY	1080
Exc	REVISOR BY	DATE	1070
Emb	DESIGNED BY	DATE	1060
	DESIGNED BY	DATE	1050
	DESIGNED BY	DATE	1040
	DESIGNED BY	DATE	1030
	DESIGNED BY	DATE	1020
	DESIGNED BY	DATE	1010
	DESIGNED BY	DATE	1000
	DESIGNED BY	DATE	990
	DESIGNED BY	DATE	980
	DESIGNED BY	DATE	970
	DESIGNED BY	DATE	960
	DESIGNED BY	DATE	950
	DESIGNED BY	DATE	940

STATION	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	TOTAL
Exc																									
Emb																									





Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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.					
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**SUPERELEVATION DIAGRAM**

**PROFILE  
NB ENTRANCE RAMP FROM FOURTH St  
"F2" LINE**

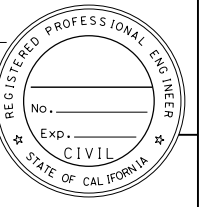
**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
PROFILE AND  
SUPERELEVATION DIAGRAM**

SCALE  
Horiz 1" = 200'  
Vert 1" = 40'

**PS-11**

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-149.8/52.3, SBD-15-0.0/12.2		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 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.



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 862 E. HOSPITALITY LANE  
 SUITE 350  
 SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
 TRANSPORTATION AUTHORITY  
 1170 W. 3RD STREET  
 SAN BERNARDINO, CA 92410



**SUPERELEVATION DIAGRAM**

**PROFILE**  
**SB EXIT RAMP TO FOURTH St**  
 "F4" LINE

**I-15 CORRIDOR PROJECT**  
**ALTERNATIVE 2**  
**PROFILE AND**  
**SUPERELEVATION DIAGRAM**

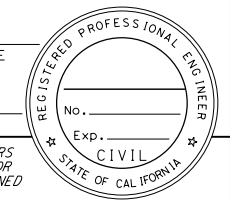
SCALE  
 Horiz 1" = 200'  
 Vert 1" = 40'

**PS-12**

LAST REVISION    DATE PLOTTED => 31-JUL-2018  
 00-00-00    TIME PLOTTED => 15:54

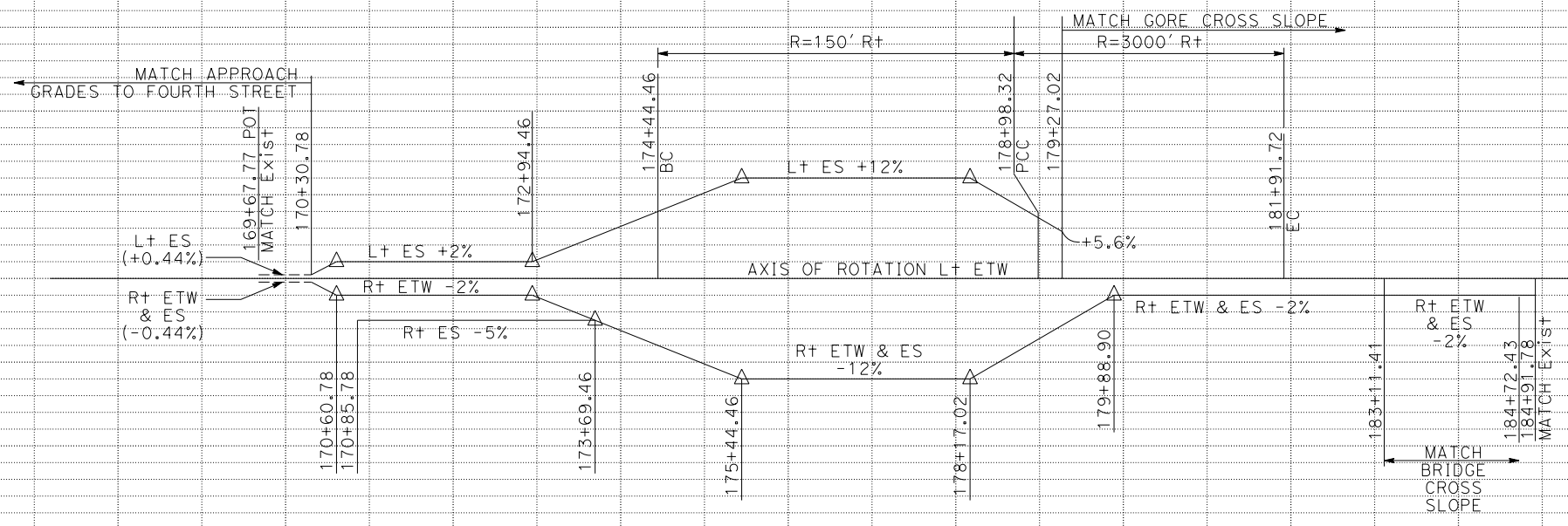
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 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.

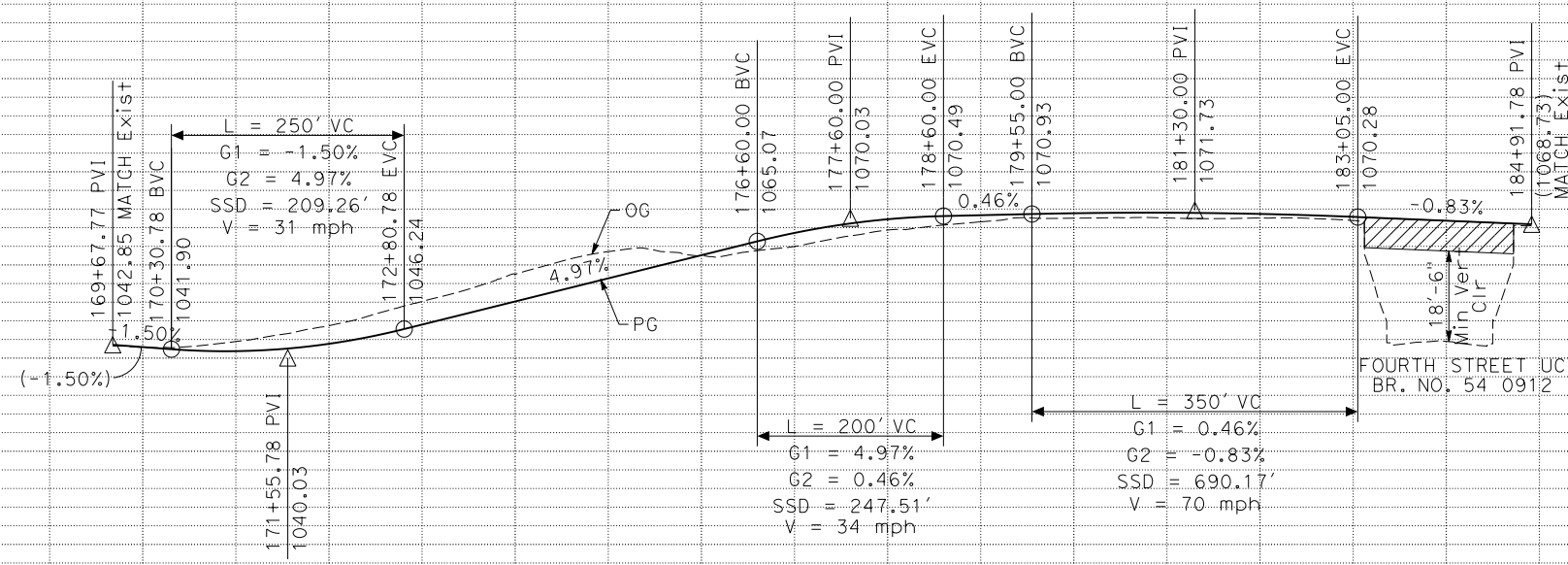


WSP USA Inc.  
 862 E. HOSPITALITY LANE  
 SUITE 350  
 SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
 TRANSPORTATION AUTHORITY  
 1170 W. 3RD STREET  
 SAN BERNARDINO, CA 92410



**SUPERELEVATION DIAGRAM**



**PROFILE  
 SB LOOP ENTRANCE RAMP FROM FOURTH St  
 "F3" LINE**

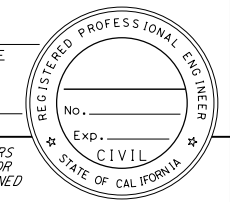
**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 PROFILE AND  
 SUPERELEVATION DIAGRAM**

SCALE  
 Horiz 1" = 200'  
 Vert 1" = 40'

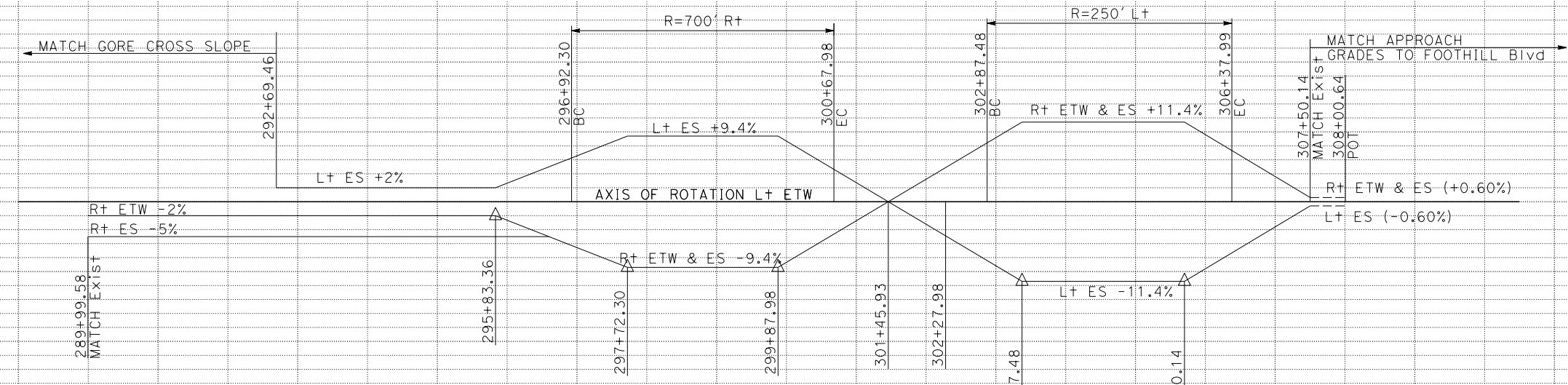
**PS-13**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY	REVISOR	DATE
Exc	Emd	1120			
		1110			
1100					
1080					
1070					
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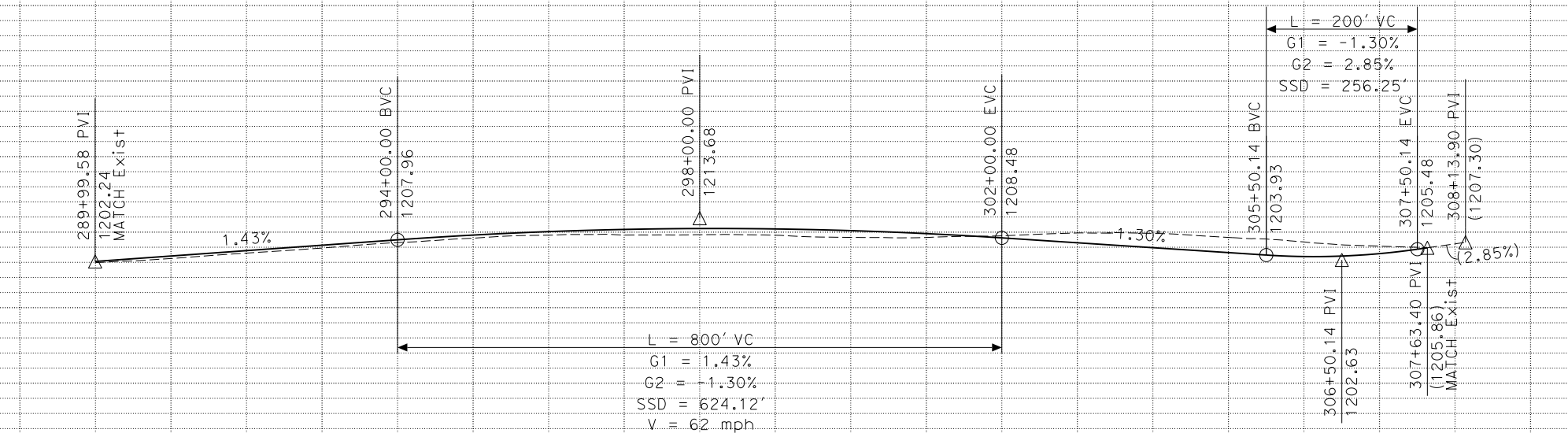
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
<b>Caltrans</b>		CHECKED BY	DATE REVISED
STATION	Exc		
CY	Emb		



**SUPERELEVATION DIAGRAM**



**PROFILE  
NB EXIT RAMP TO FOOTHILL Blvd  
"FB1" LINE**

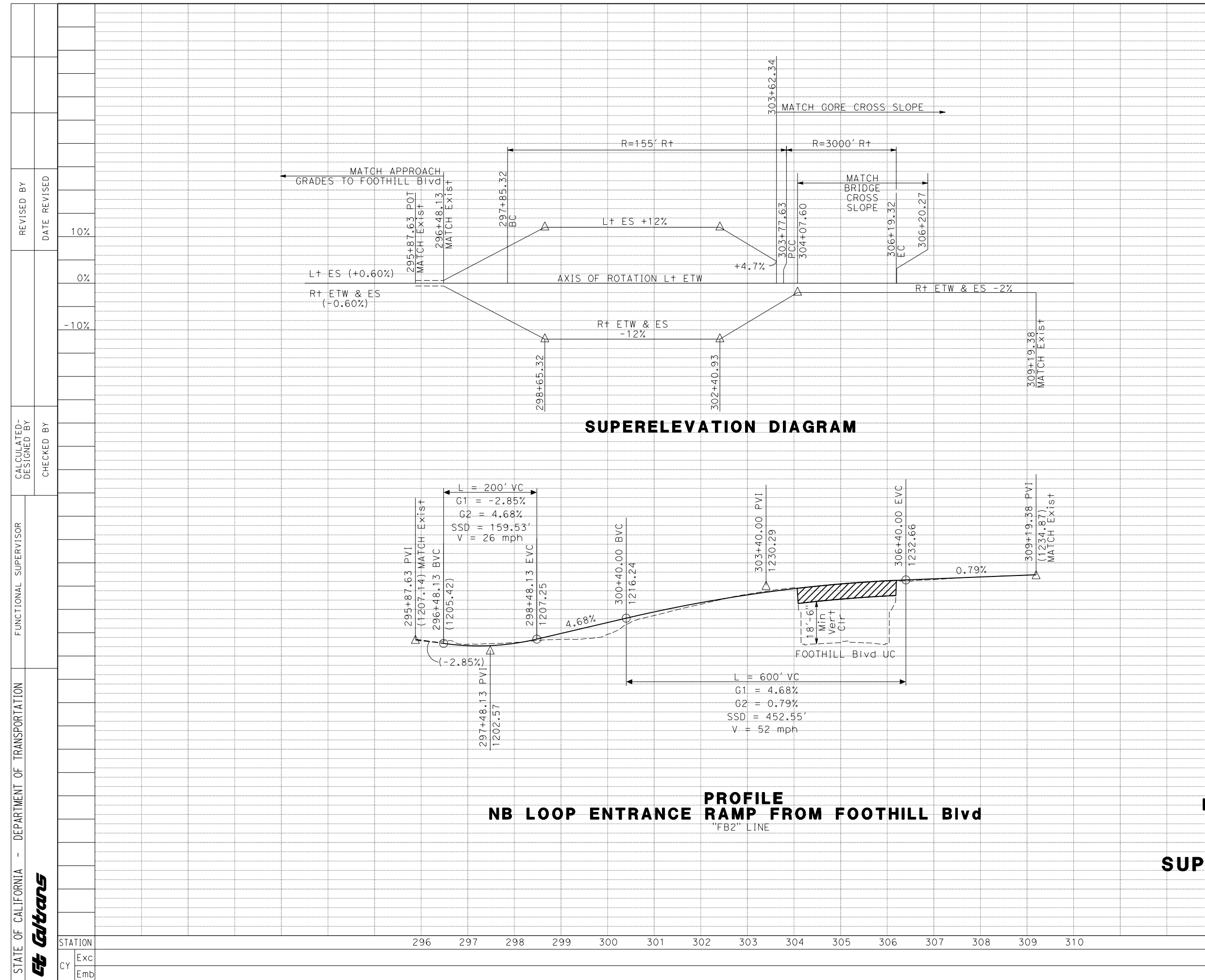
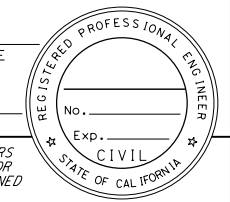
**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
PROFILE AND  
SUPERELEVATION DIAGRAM**

SCALE  
Horiz 1" = 200'  
Vert 1" = 40'

**PS-14**



Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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.					
WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		



**PROFILE NB LOOP ENTRANCE RAMP FROM Foothill Blvd**  
"FB2" LINE

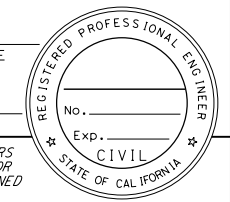
**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
PROFILE AND  
SUPERELEVATION DIAGRAM**

SCALE  
Horiz 1" = 200'  
Vert 1" = 40'

**PS-15**

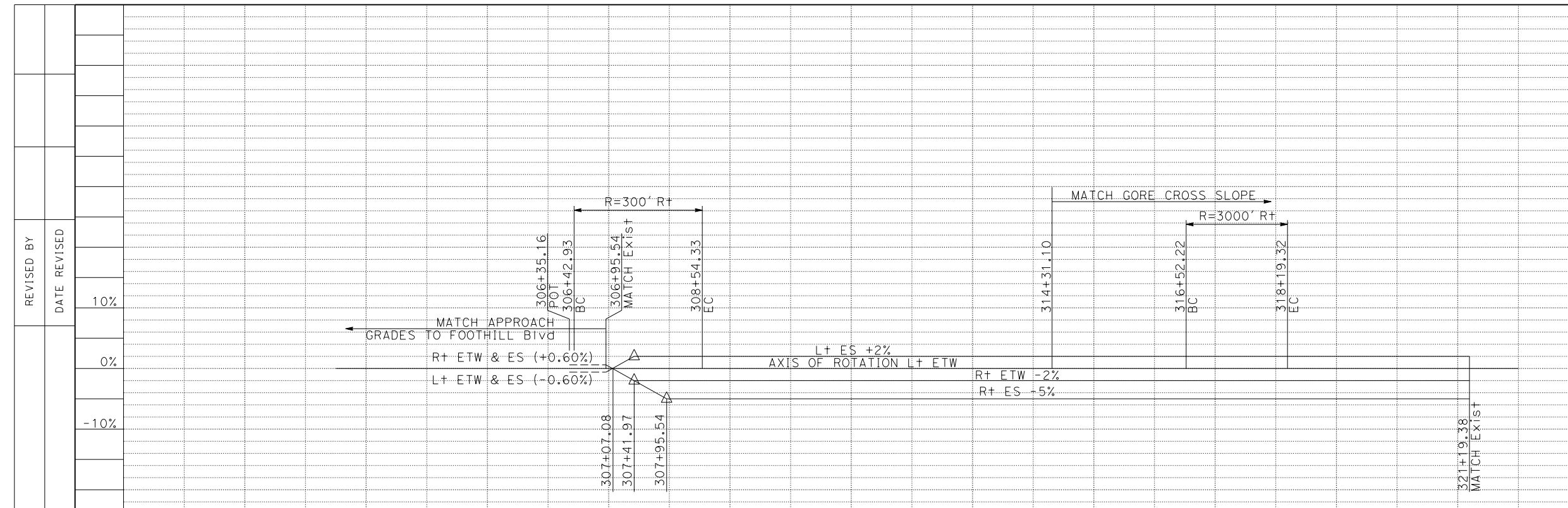
REVISED BY	DATE REVISED	10%
CALCULATED-DESIGNED BY	CHECKED BY	0%
FUNCTIONAL SUPERVISOR		-10%
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		
<b>Caltrans</b>		
STATION		
CY	Exc	
	Emb	
296		
297		
298		
299		
300		
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302		
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306		
307		
308		
309		
310		
TOTAL		

REGISTERED CIVIL ENGINEER DATE  
 PLANS APPROVAL DATE  
 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.

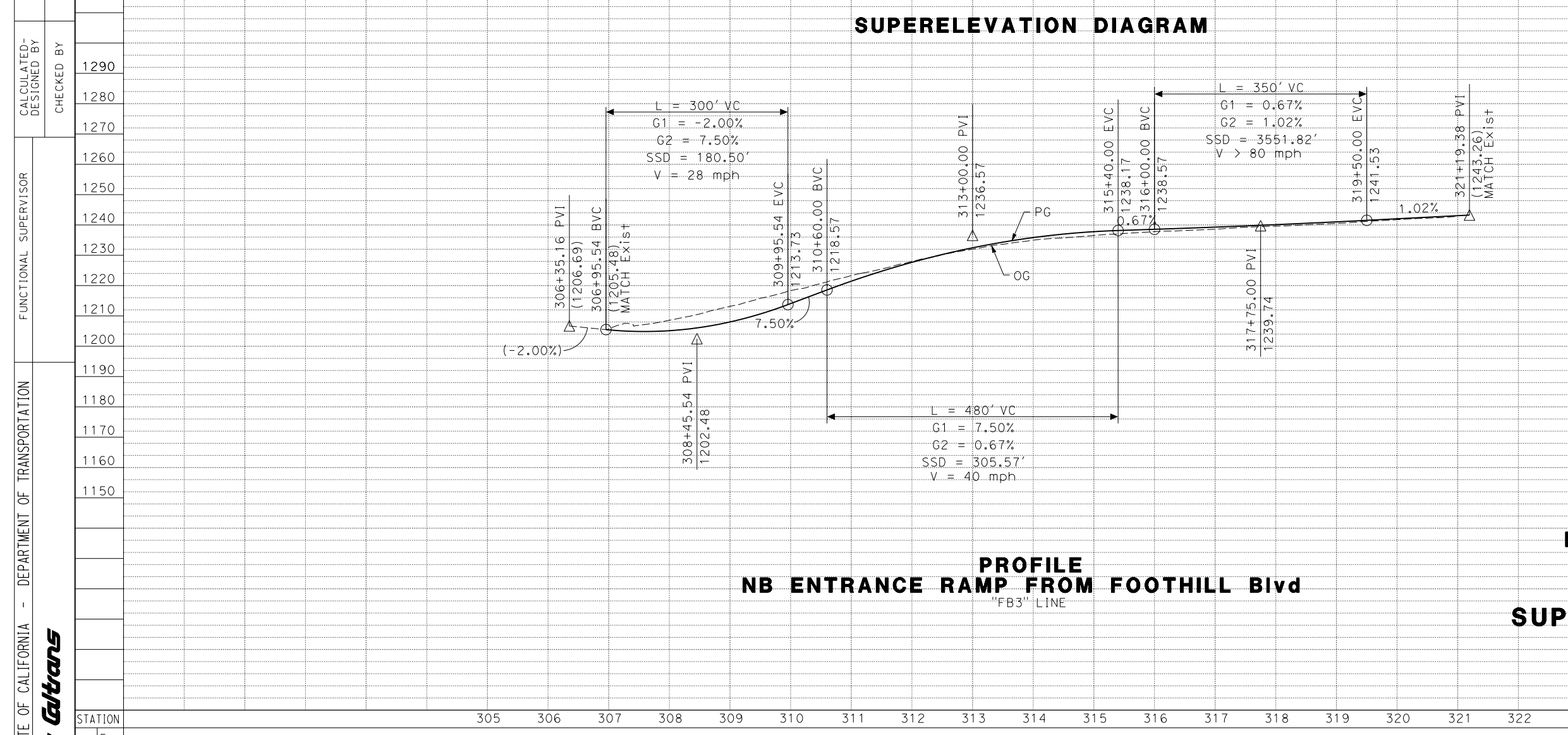


WSP USA Inc.  
 862 E. HOSPITALITY LANE  
 SUITE 350  
 SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
 TRANSPORTATION AUTHORITY  
 1170 W. 3RD STREET  
 SAN BERNARDINO, CA 92410



**SUPERELEVATION DIAGRAM**



**PROFILE  
 NB ENTRANCE RAMP FROM Foothill Blvd  
 "FB3" LINE**

**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 PROFILE AND  
 SUPERELEVATION DIAGRAM**

SCALE  
 Horiz 1" = 200'  
 Vert 1" = 40'

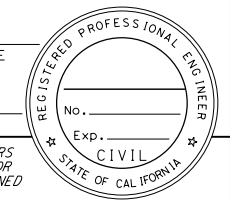
**PS-16**

STATION	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	TOTAL
Exc																			
Emb																			

LAST REVISION DATE PLOTTED => 31-JUL-2018  
 00-00-00 TIME PLOTTED => 15:54

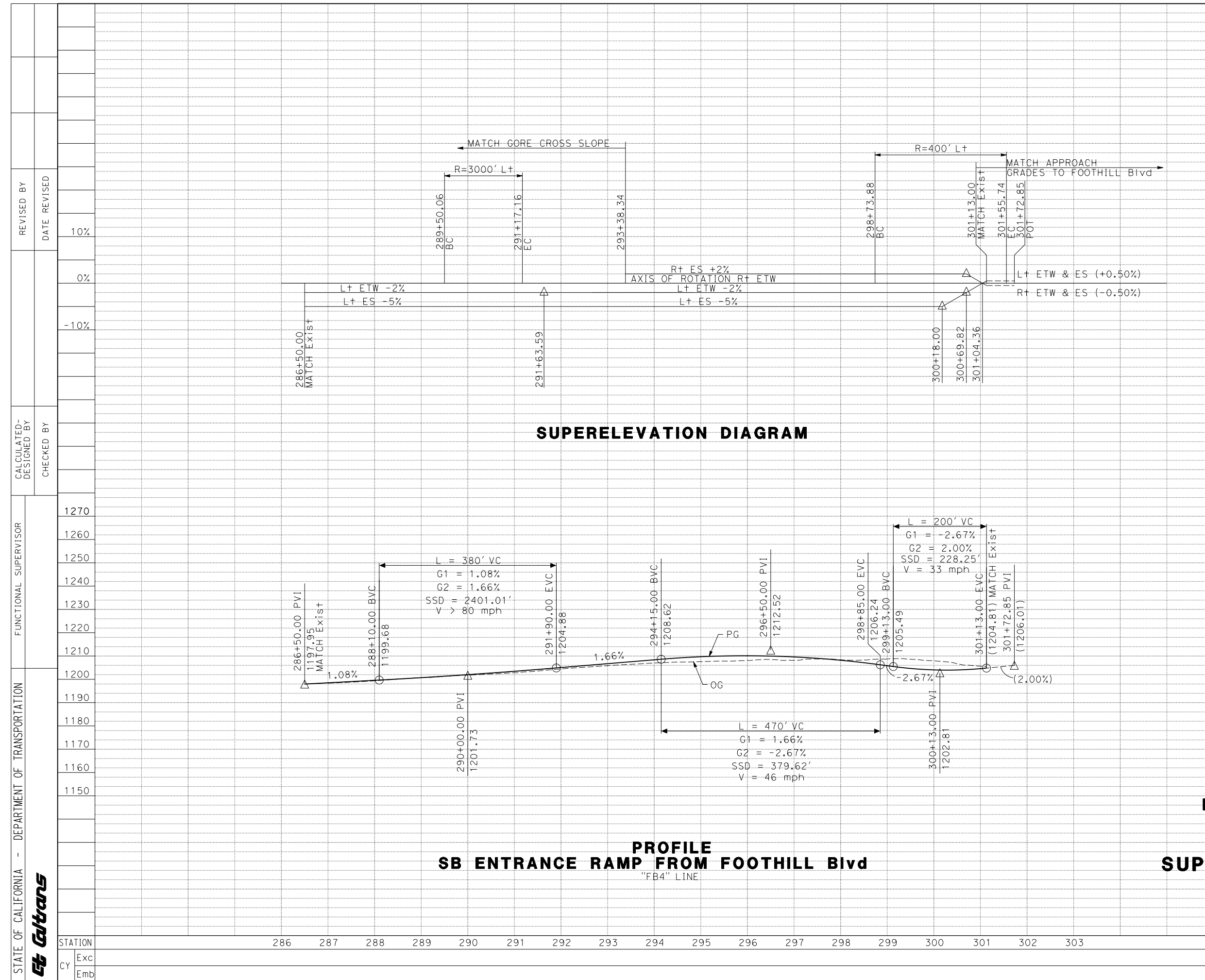
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 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.



WSP USA Inc.  
 862 E. HOSPITALITY LANE  
 SUITE 350  
 SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
 TRANSPORTATION AUTHORITY  
 1170 W. 3RD STREET  
 SAN BERNARDINO, CA 92410



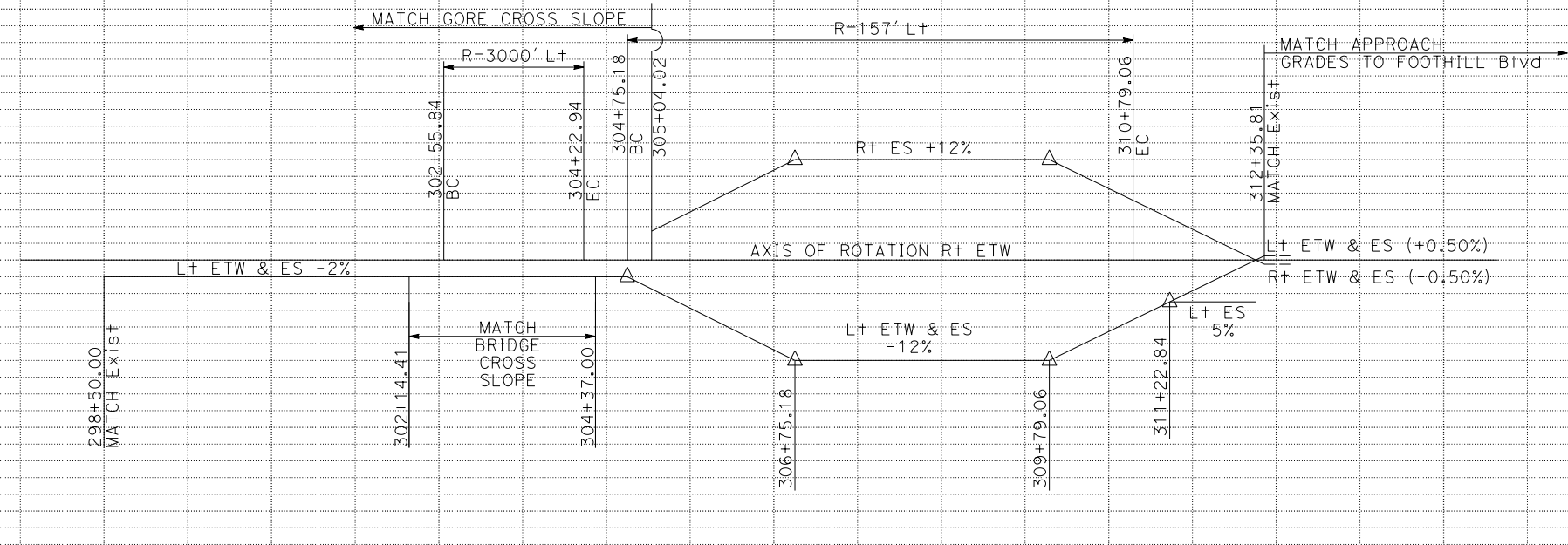
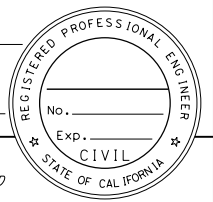
**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 PROFILE AND  
 SUPERELEVATION DIAGRAM**

SCALE  
 Horiz 1" = 200'  
 Vert 1" = 40'

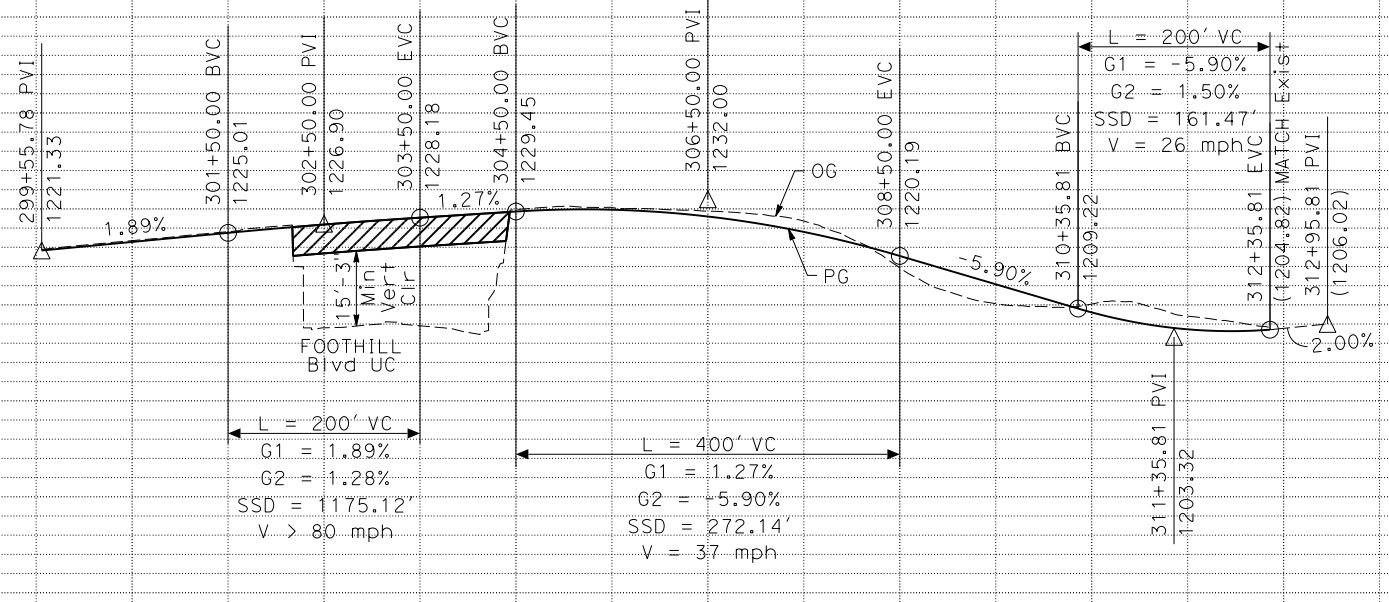
**PS-17**

STATE OF CALIFORNIA	DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY	DATE REVISED															
<b>Caltrans</b>			CHECKED BY																	
		1270			10%															
		1260			0%															
		1250			-10%															
		1240																		
		1230																		
		1220																		
		1210																		
		1200																		
		1190																		
		1180																		
		1170																		
		1160																		
		1150																		
STATION		298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	TOTAL	
CY	Exc																			
	Emb																			

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
<small>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.</small>					
WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		



### SUPERELEVATION DIAGRAM



### PROFILE AND SUPERELEVATION DIAGRAM SB LOOP ENTRANCE RAMP FROM FOOTHILL Blvd "FBS" LINE

### I-15 CORRIDOR PROJECT ALTERNATIVE 2 PROFILE AND SUPERELEVATION DIAGRAM

SCALE  
Horiz 1" = 200'  
Vert 1" = 40'

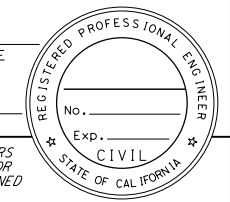
**PS-18**

LAST REVISION DATE PLOTTED => 31-JUL-2018  
 00-00-00 TIME PLOTTED => 15:54



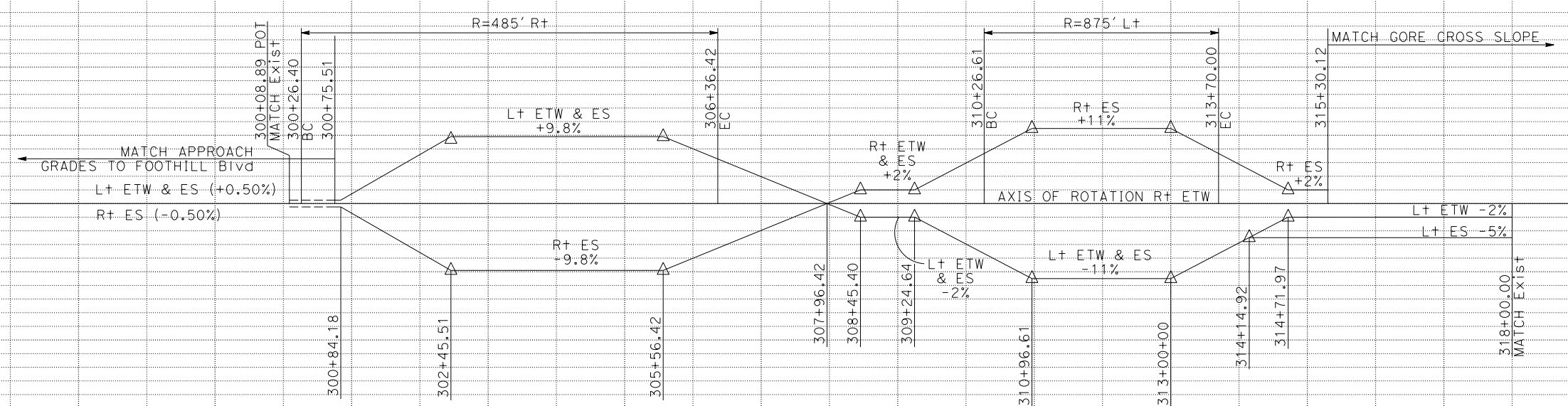
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv,SBd	15	RIV-15-49,8/52,3, SBD-15-0.0/12.2		

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 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.

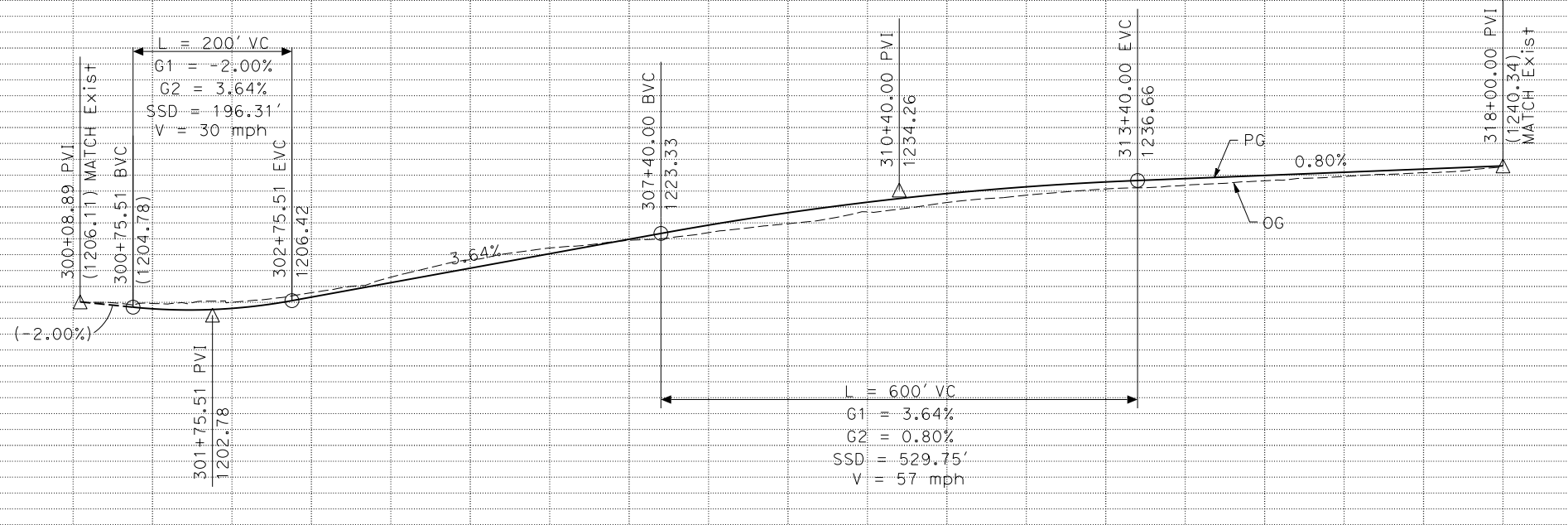


WSP USA Inc.  
 862 E. HOSPITALITY LANE  
 SUITE 350  
 SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY  
 TRANSPORTATION AUTHORITY  
 1170 W. 3RD STREET  
 SAN BERNARDINO, CA 92410



**SUPERELEVATION DIAGRAM**



**PROFILE  
 SB EXIT RAMP TO FOOTHILL Blvd  
 "FB6" LINE**

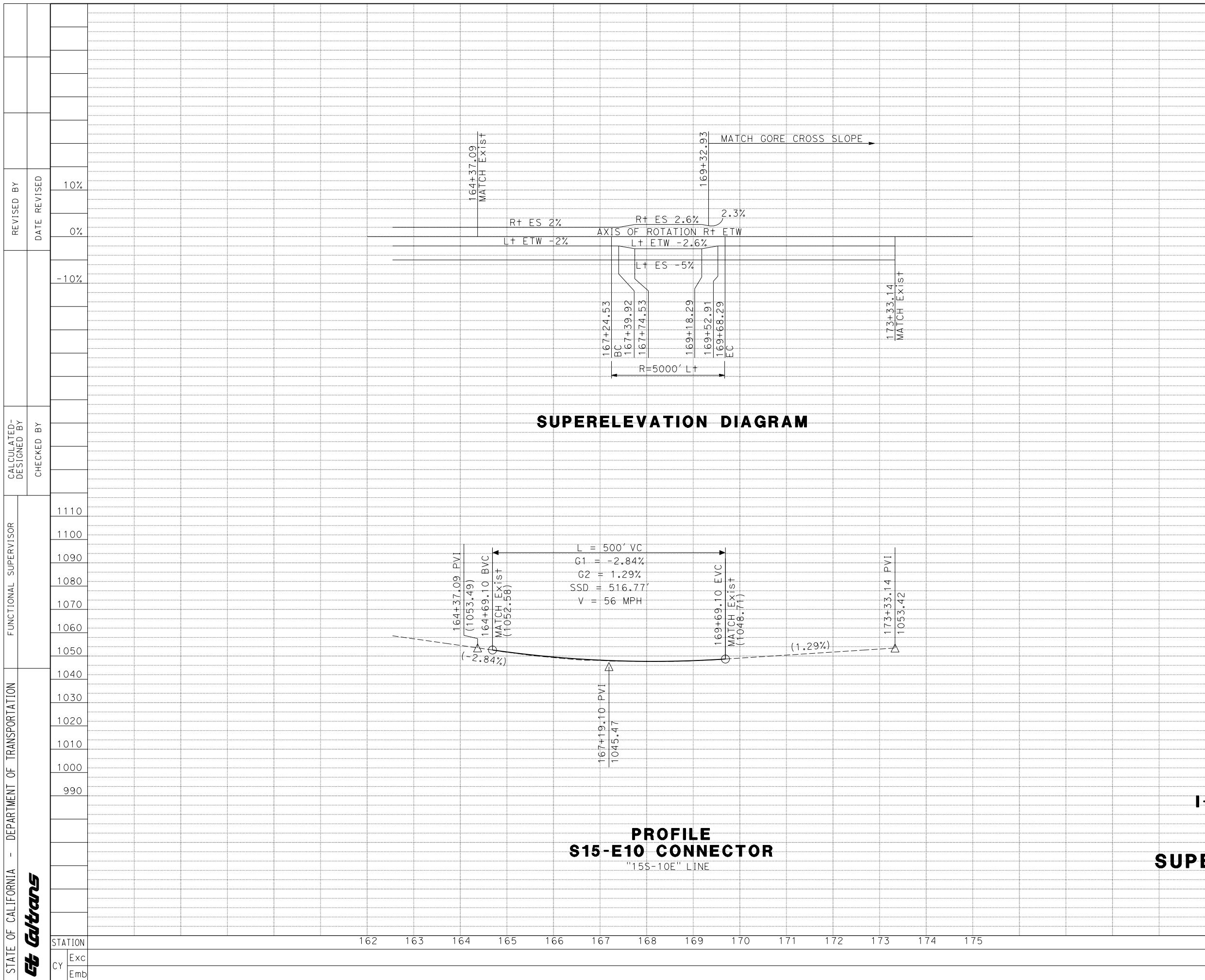
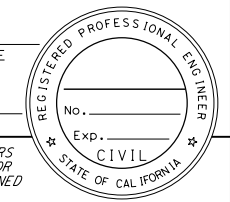
**I-15 CORRIDOR PROJECT  
 ALTERNATIVE 2  
 PROFILE AND  
 SUPERELEVATION DIAGRAM**

SCALE  
 Horiz 1" = 200'  
 Vert 1" = 40'

**PS-19**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR	DATE
<b>Caltrans</b>					
STATION	Exc				
CY	Emb				

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, Sbd	15	RIV-15-49.8/52.3, SBD-15-0.0/12.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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.					
WSP USA Inc. 862 E. HOSPITALITY LANE SUITE 350 SAN BERNARDINO, CA 92408			SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY 1170 W. 3RD STREET SAN BERNARDINO, CA 92410		



**SUPERELEVATION DIAGRAM**

**PROFILE  
S15-E10 CONNECTOR**  
"15S-10E" LINE

**I-15 CORRIDOR PROJECT  
ALTERNATIVE 2  
PROFILE AND  
SUPERELEVATION DIAGRAM**

SCALE  
Horiz 1" = 200'  
Vert 1" = 40'

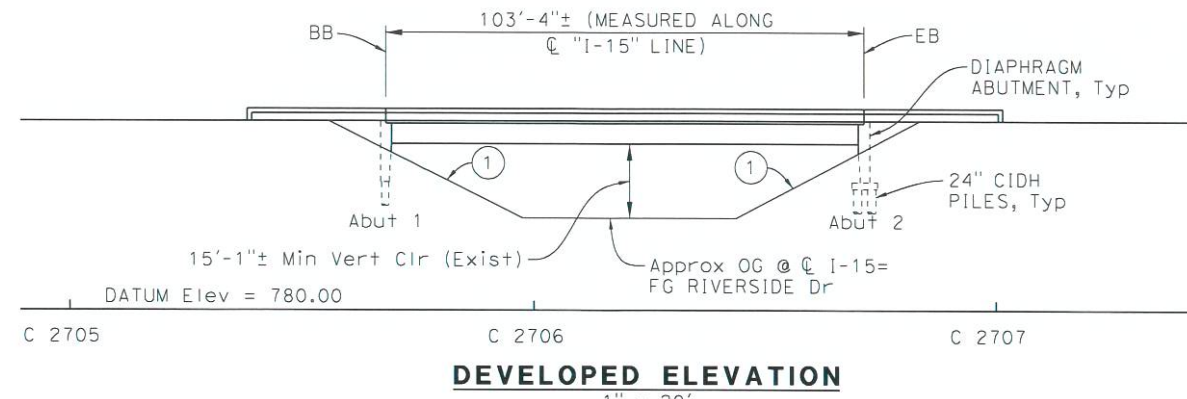
**PS-20**

LAST REVISION DATE PLOTTED => 31-JUL-2018  
00-00-00 TIME PLOTTED => 15:54

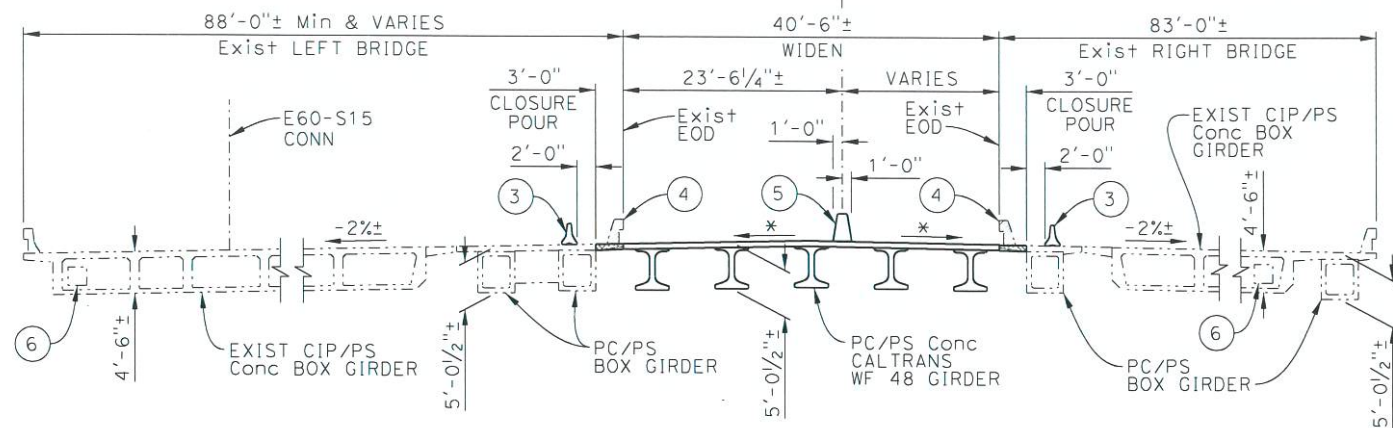
**ATTACHMENT E**  
**Structure Advance Planning Studies**



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, Sbd	15	51.26
SBCTA 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715 WSP USA Inc. 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			



NOTE: Existing bridge not shown for clarity.



\* MATCH Exist GRADE AND CROSS SLOPE

	Existing	Widening	Required
Minimum Vertical Clearance	15'-1"	16'-8"	15'-0"

**LEGEND:**

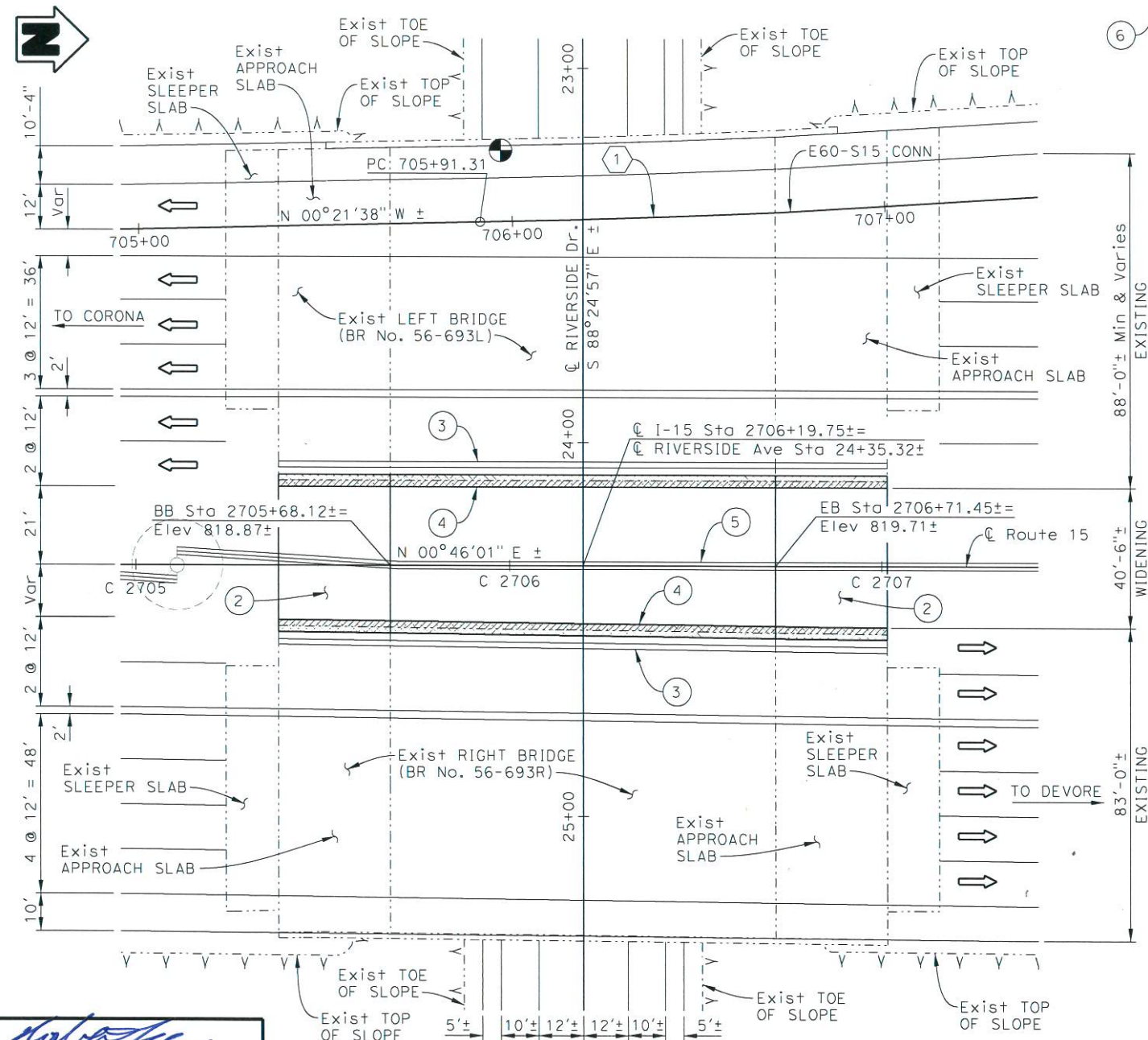
- Indicates bridge removal (Portion)
- Indicates closure pour
- Indicates existing bridge
- Indicates bridge widening
- Indicates point of minimum vertical clearance
- Indicates direction of traffic

**KEY NOTES:**

- ① Slope Paving, 1 1/2:1
- ② Structure Approach Slab Type N(30D)
- ③ Temporary Railing (Type K)
- ④ Remove Existing Barrier Type 736
- ⑤ Concrete Barrier Type 60A
- ⑥ Existing 2' x 2' Utility Opening

**CURVE DATA** ⑥

R = 3000.00'±  
 Δ = 03°11'29"±  
 T = 83.572'±  
 L = 167.101'±



X *M. Raoof*  
 DESIGN OVERSIGHT  
 X 6-20-18  
 SIGN OFF DATE

DESIGNED BY	M. RAOOF	DATE	04/2018
DRAWN BY	P. TAM	DATE	04/2018
CHECKED BY	J. LIAO	DATE	04/2018
APPROVED	X	DATE	04/2018

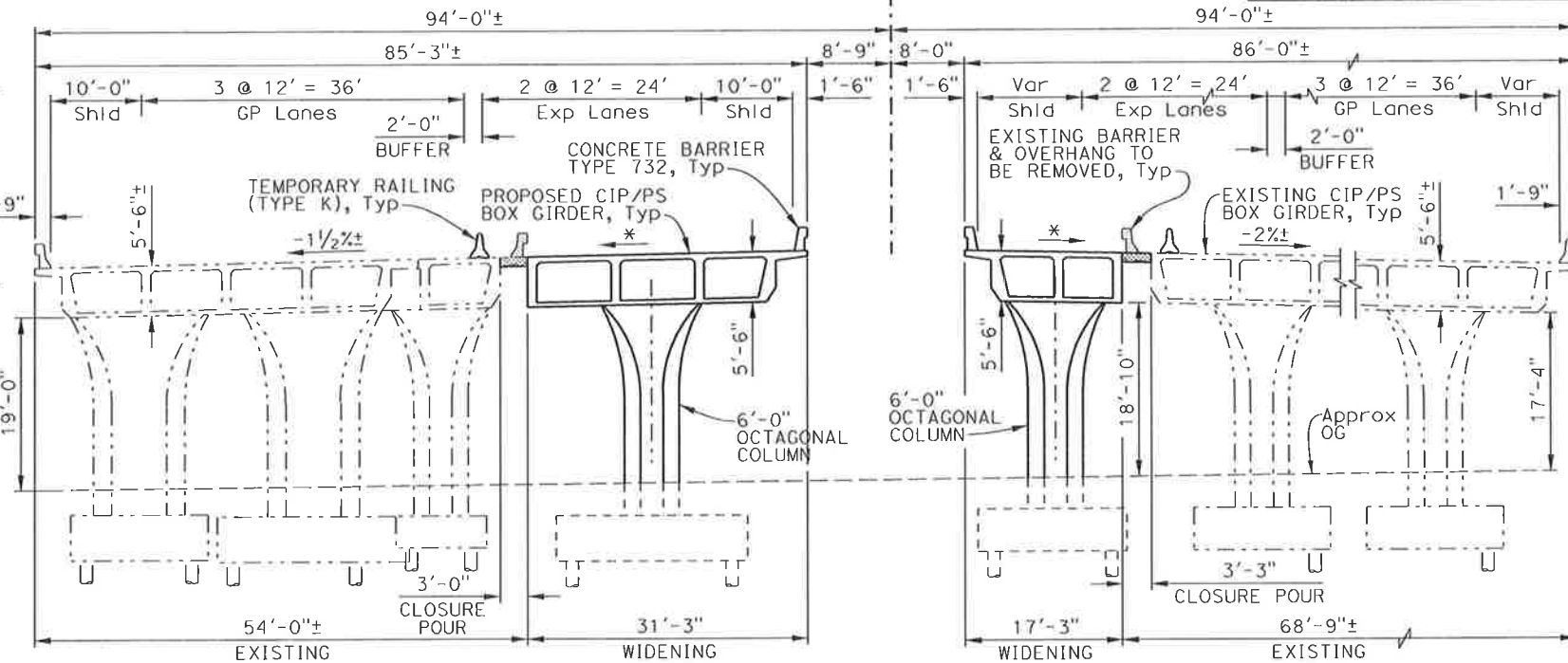
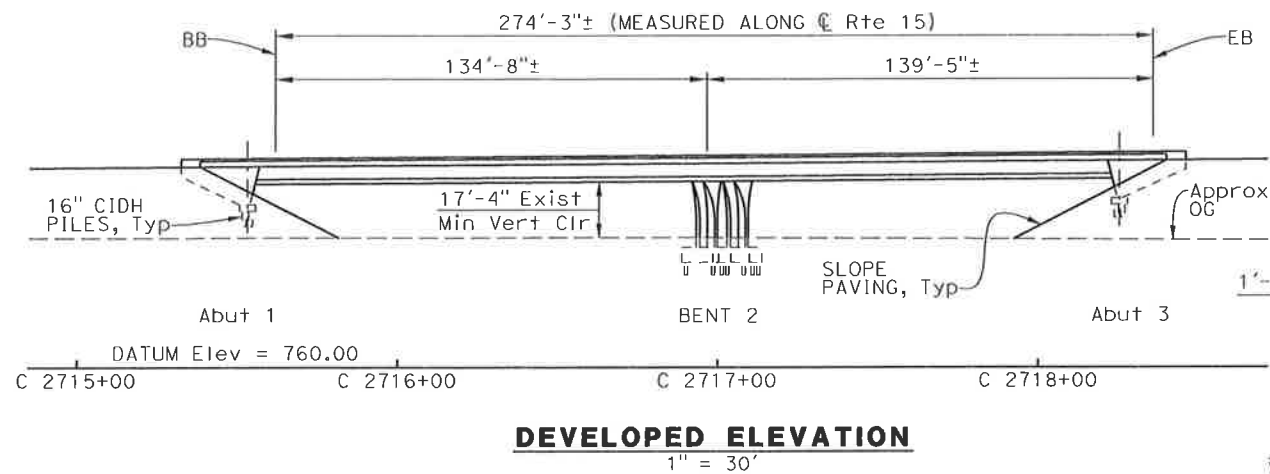
X PROJECT ENGINEER		<b>PLANNING STUDY</b>	
<b>RIVERSIDE AVE UC (WIDEN)</b>			
BRIDGE NO.	56-0693	UNIT:	2216
SCALE:	AS NOTED	PROJECT NUMBER & PHASE:	0812000184



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv	15	51.45

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San Bernardino, CA 92410-1715

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451 E. Vanderbilt Way, Suite 200  
San Bernardino, CA 92408



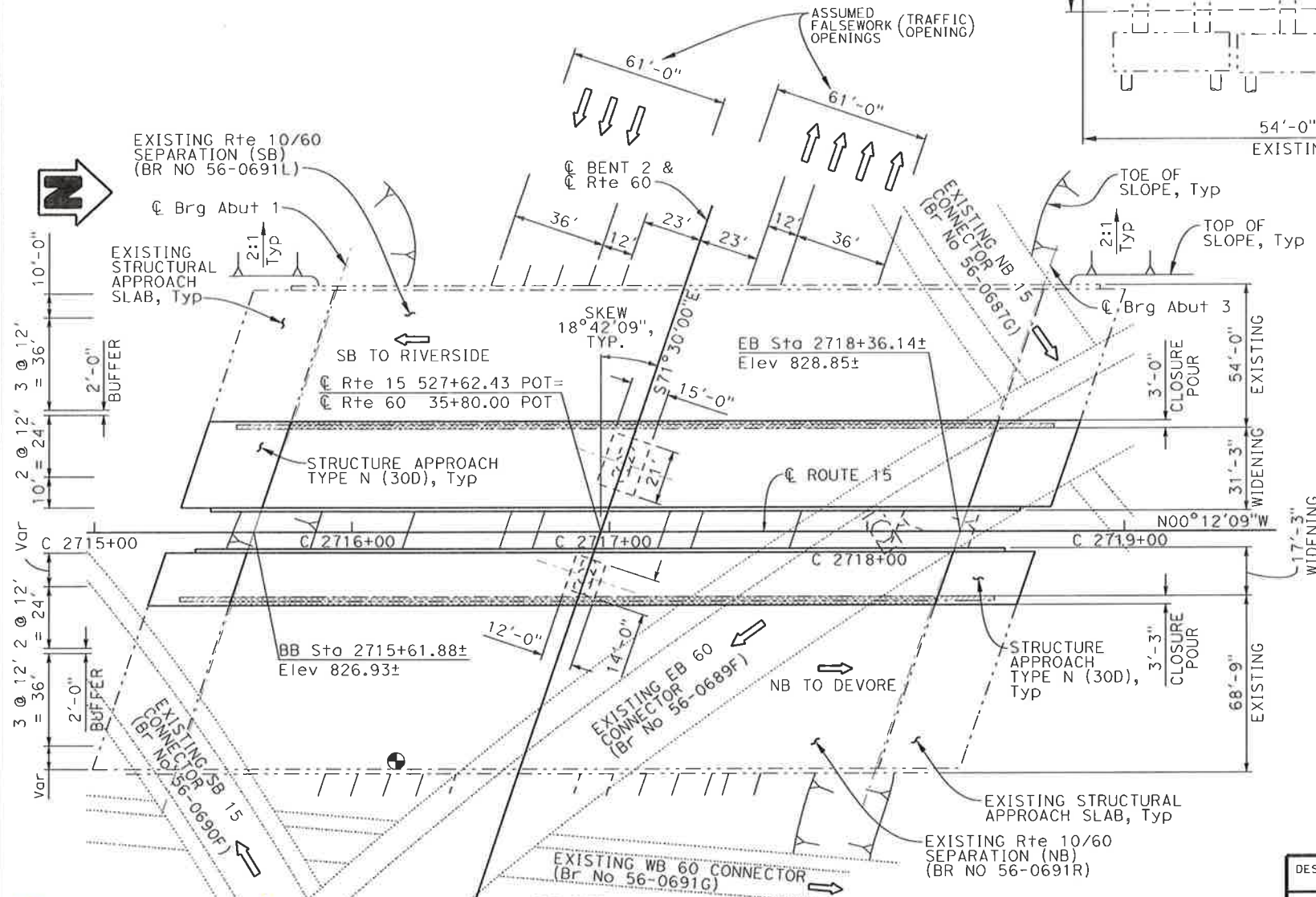
**TYPICAL SECTION**

1" = 10'

\* NOTE: Match existing slope

Note: Traffic will pass through construction. (15'-0" min vert clearance required under falsework).

	Existing	Widening	Required
Minimum Vertical Clearance	17'-4"±	18'-11"	16'-6"



**PLAN**

1" = 30'

**LEGEND:**

- Indicates bridge removal
- Indicates closure pour
- Indicates existing bridge
- Indicates bridge widening
- Indicates point of minimum vertical clearance
- Indicates direction of traffic

DATE OF ESTIMATE	06-28-16
BRIDGE REMOVAL	= 1714.0 Sq Ft
STRUCTURE DEPTH	= 5'-6"
LENGTH	= 274.25'
WIDTH	= 48.5'
AREA	= 13,301 Sq Ft
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$241
TOTAL COST	= \$3,199,000

DESIGNED BY	M. RAOOF	DATE	03/2016
DRAWN BY	P. TAM	DATE	03/2016
CHECKED BY	S. CHOU	DATE	03/2016
APPROVED	X	DATE	X

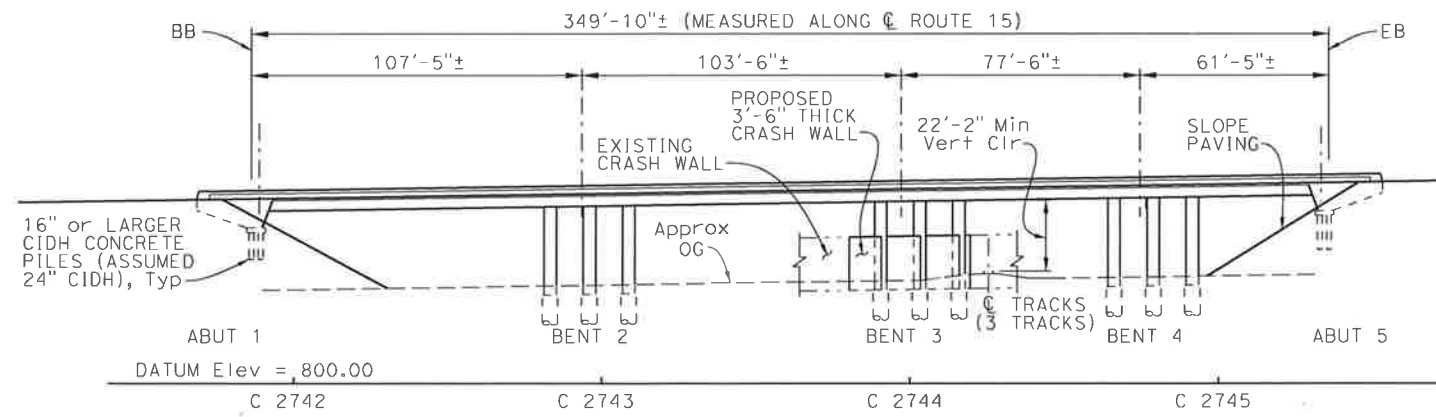
X PROJECT ENGINEER	<b>PLANNING STUDY</b>	
	<b>ROUTE 15/60 SEPARATION (WIDEN)</b>	
BRIDGE NO. 56-0691R/L	UNIT: 2216	
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184	

X *David Casell*  
DESIGN OVERSIGHT  
X *2/21/17*  
SIGN OFF DATE

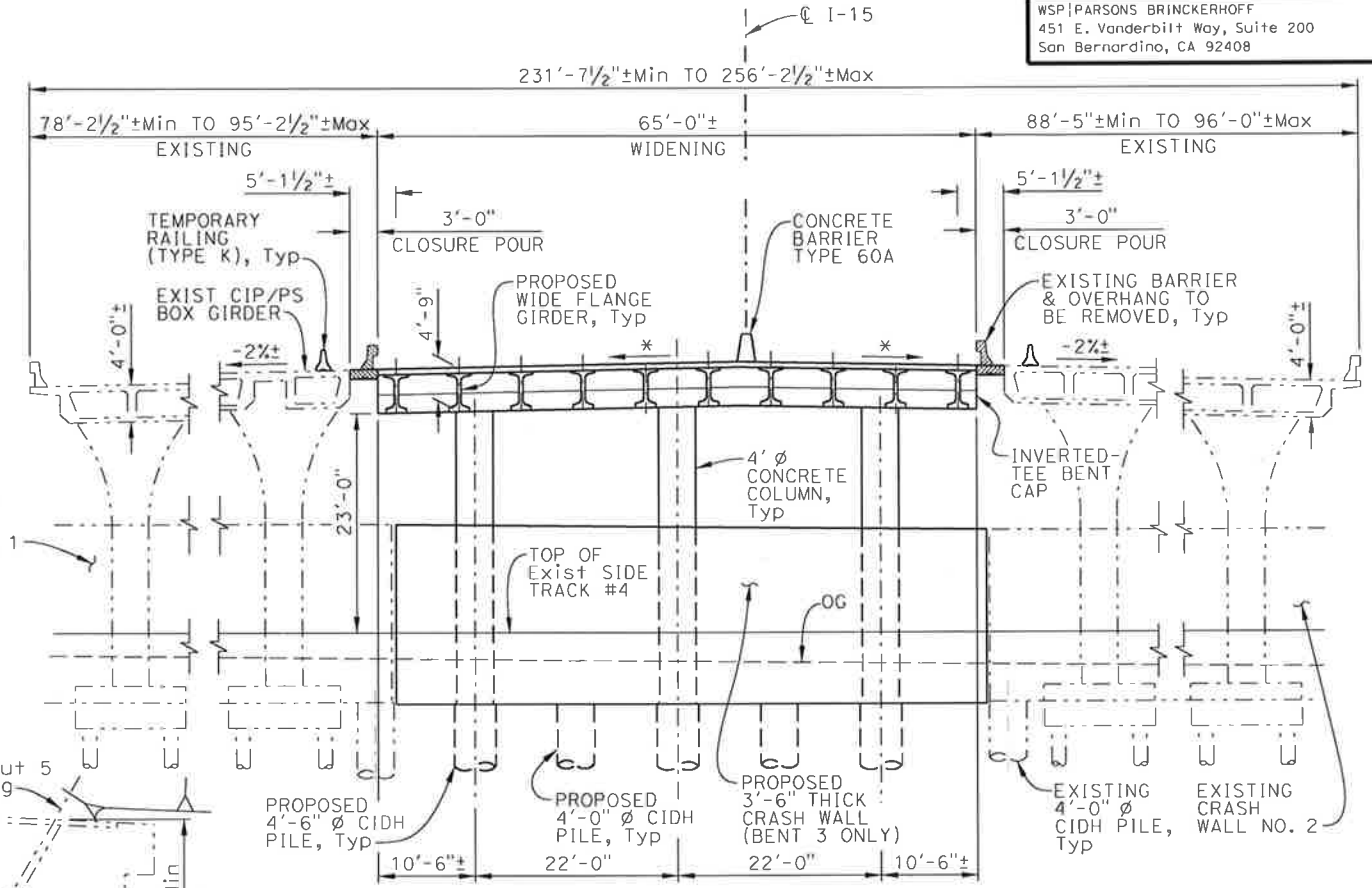
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, Sbd	15	51.95

SBCTA  
1170 W. 3rd Street, 2nd Floor  
San Bernardino, CA 92410-1715

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San Bernardino, CA 92408

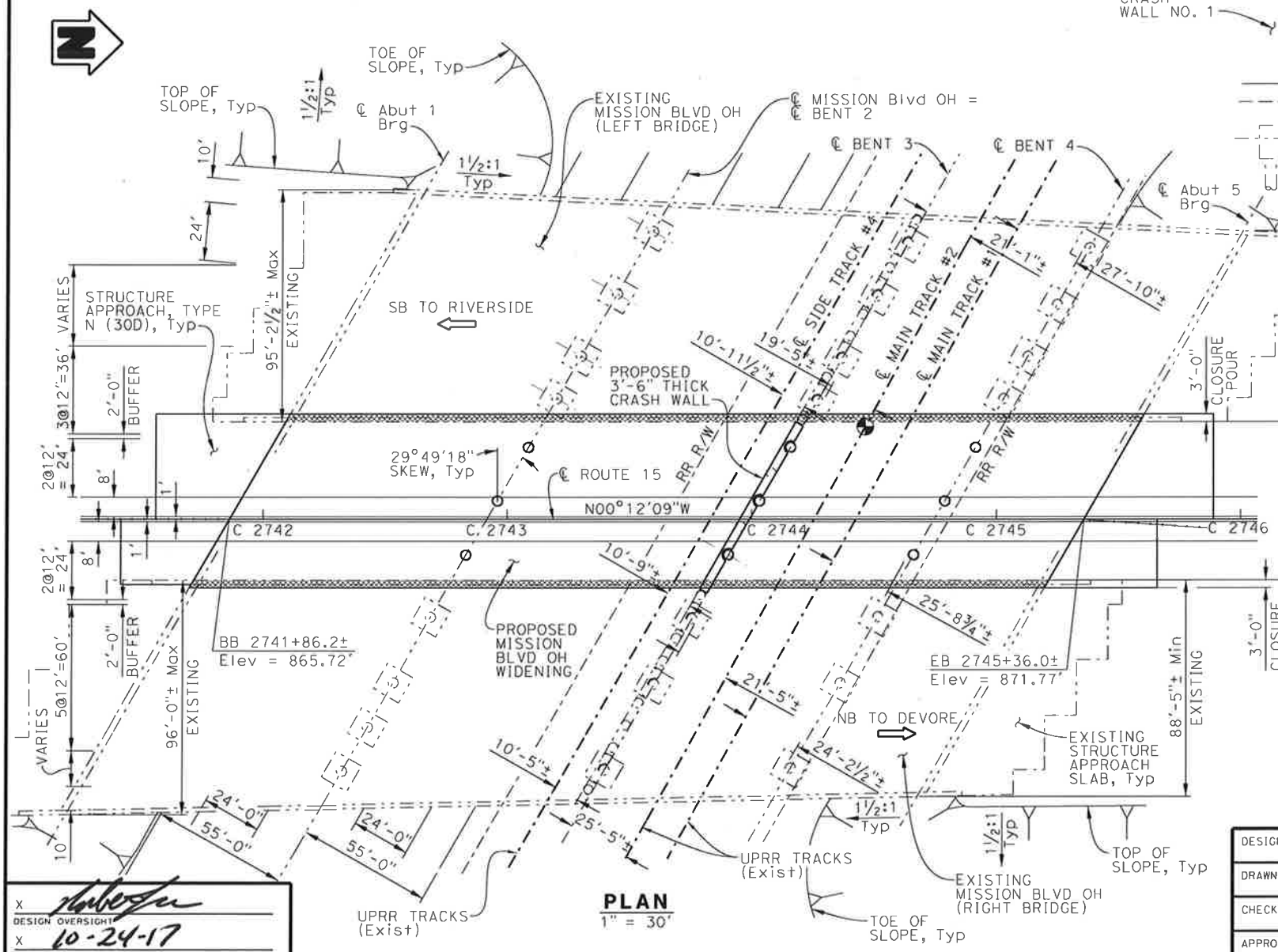


**DEVELOPED ELEVATION**  
1" = 30'



**TYPICAL SECTION**  
1" = 10' \* MATCH EXISTING SLOPE

	UPRR Existing	UPRR Widening	UPRR Required
Minimum Vertical Clearance	22'-2"	23'-0"	23'-4"



**PLAN**  
1" = 30'

DESIGN OVERSIGHT  
10-24-17  
SIGN OFF DATE

- LEGEND:**
- Indicates bridge removal
  - Indicates closure pour
  - Indicates existing bridge
  - Indicates bridge widening
  - Indicates point of minimum vertical clearance
  - Indicates direction of traffic

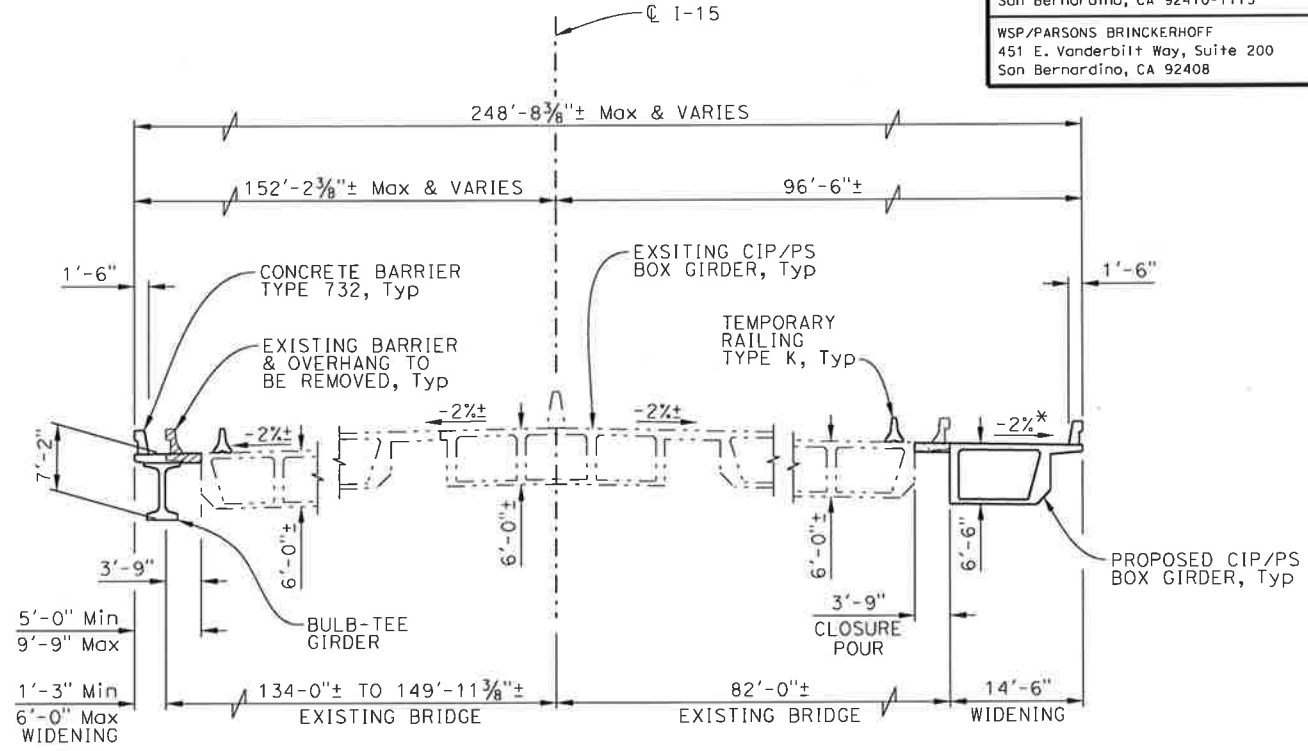
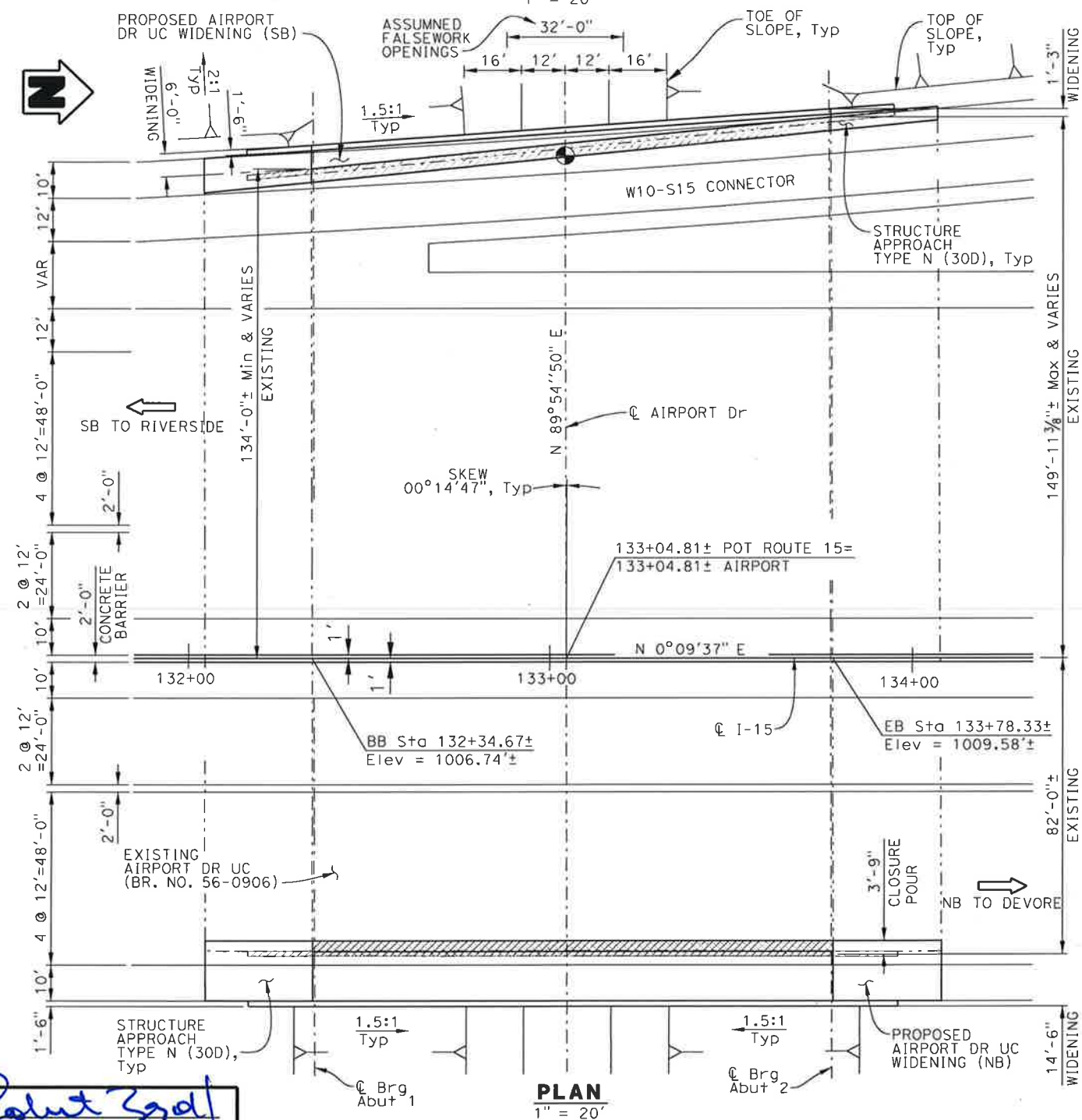
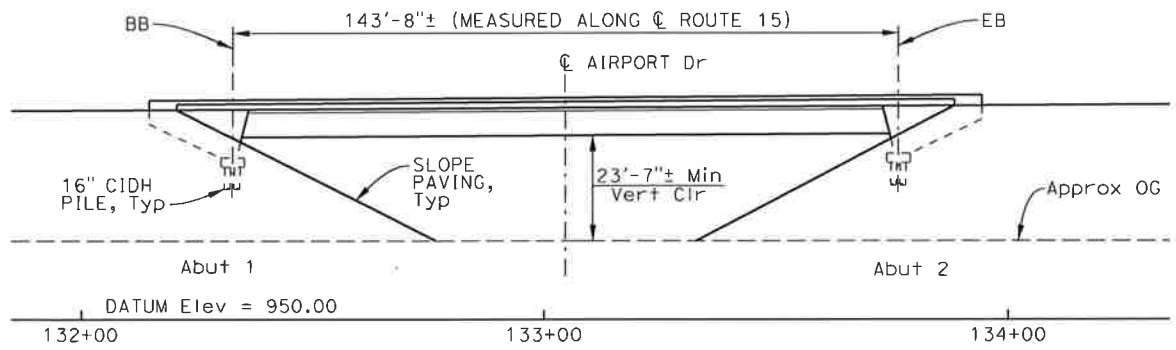
DATE OF ESTIMATE	06-23-2016
BRIDGE REMOVAL	= 2,627 Sq Ft
STRUCTURE DEPTH	= 4'-9"
LENGTH	= 349.83'
WIDTH	= 64.92'
AREA	= 22,711 Sq Ft
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$252
TOTAL COST	= \$5,718,000

DESIGNED BY	M. RAOOF	DATE	06/2016
DRAWN BY	P. TAM	DATE	06/2016
CHECKED BY	S. CHOU	DATE	06/2016
APPROVED	X	DATE	06/2016

<b>PLANNING STUDY</b>	
<b>MISSION BLVD OH (WIDEN)</b>	
BRIDGE NO. 56-0695	UNIT: 2216
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, Sbd	15	2.05
SANBAG 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715 WSP/PARSONS BRINCKERHOFF 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			



NOTE: Traffic will pass through construction. (15'-0" min vert clearance required under falsework).

	Existing	Widening	Required
Minimum Vertical Clearance	25'-0"	23'-7"±	15'

- LEGEND:**
- Indicates bridge removal
  - Indicates closure pour
  - Indicates existing bridge
  - Indicates bridge widening
  - Indicates point of minimum vertical clearance
  - Indicates direction of traffic

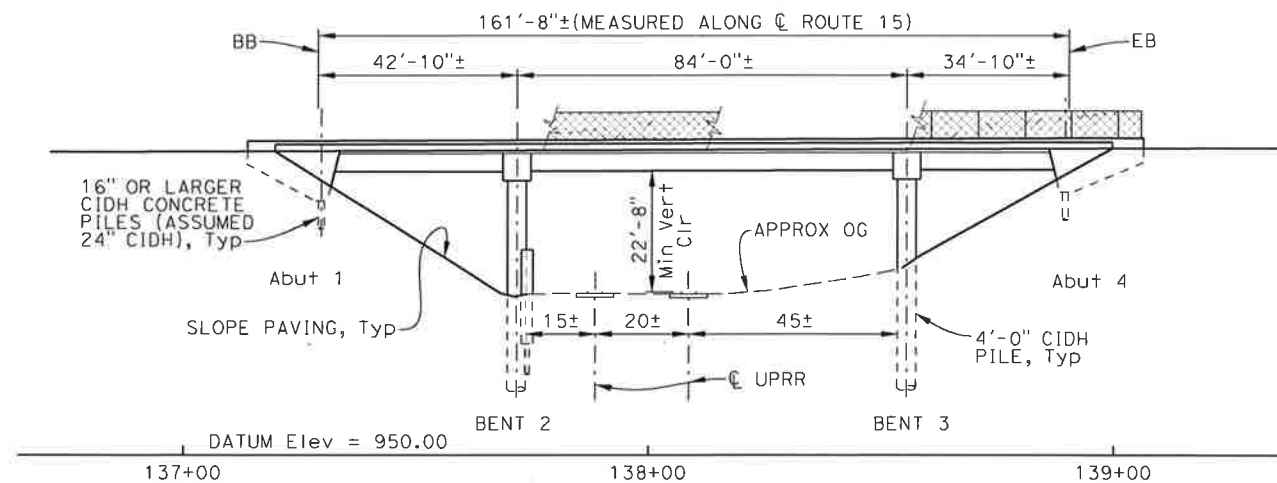
DATE OF ESTIMATE	5-31-2016
BRIDGE REMOVAL	= 1078 Sq Ft
STRUCTURE DEPTH	= 7'-2" & 6'-6"
LENGTH	= 143.67'
WIDTH	= 18.13'
AREA	= 2,605 Sq Ft
COST/□ INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$337
TOTAL COST	= \$878,000

DESIGNED BY	M. RAOOF	DATE	04/2016
DRAWN BY	P. TAM	DATE	04/2016
CHECKED BY	S. CHOU	DATE	04/2016
APPROVED	X	DATE	04/2016

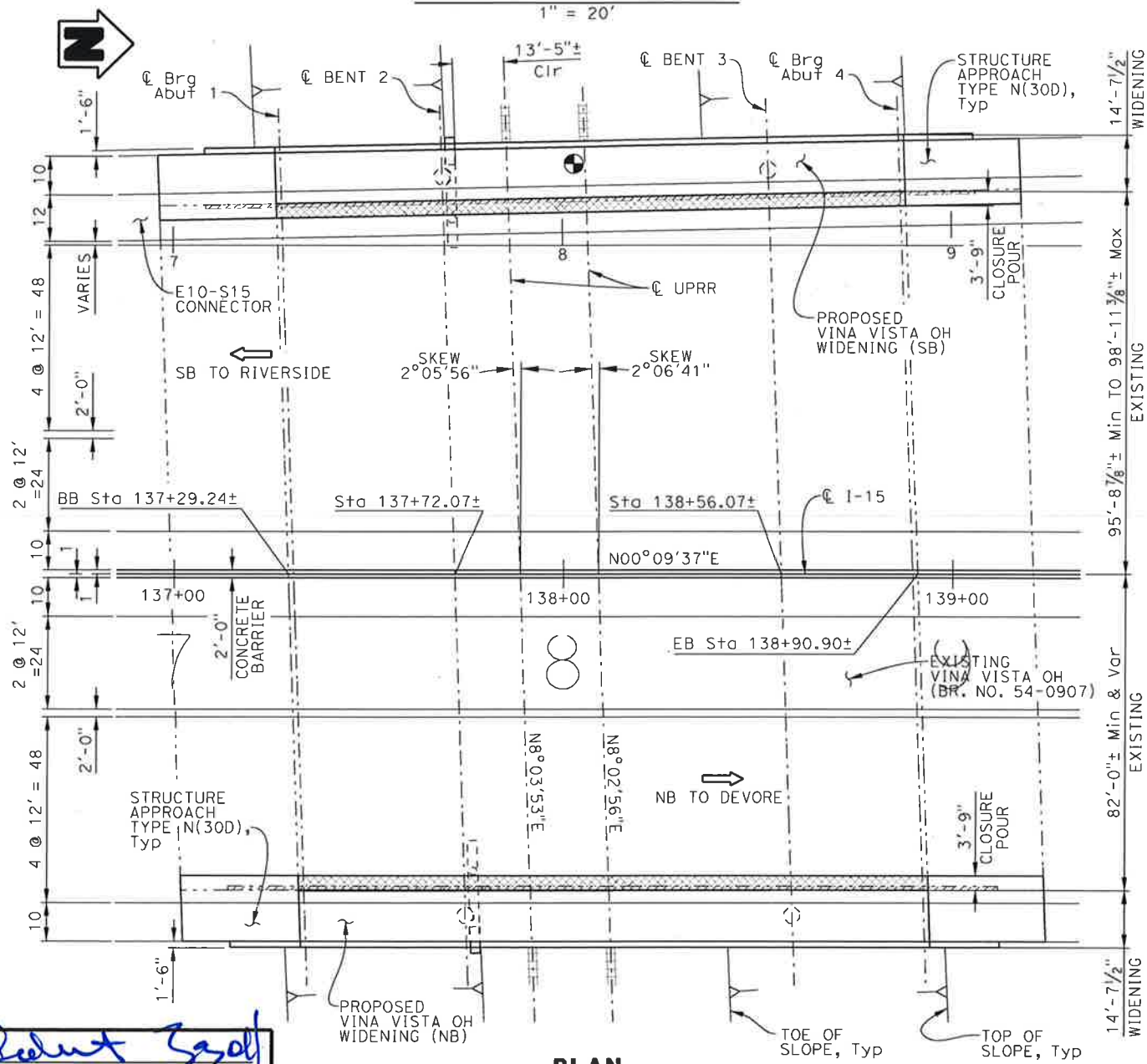
<b>PLANNING STUDY</b>	
<b>AIRPORT DRIVE UC (WIDEN)</b>	
BRIDGE NO. 54-0906	UNIT: 8
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184

DESIGN OVERSIGHT  
SIGN OFF DATE  
*Palmit 3/21/16*

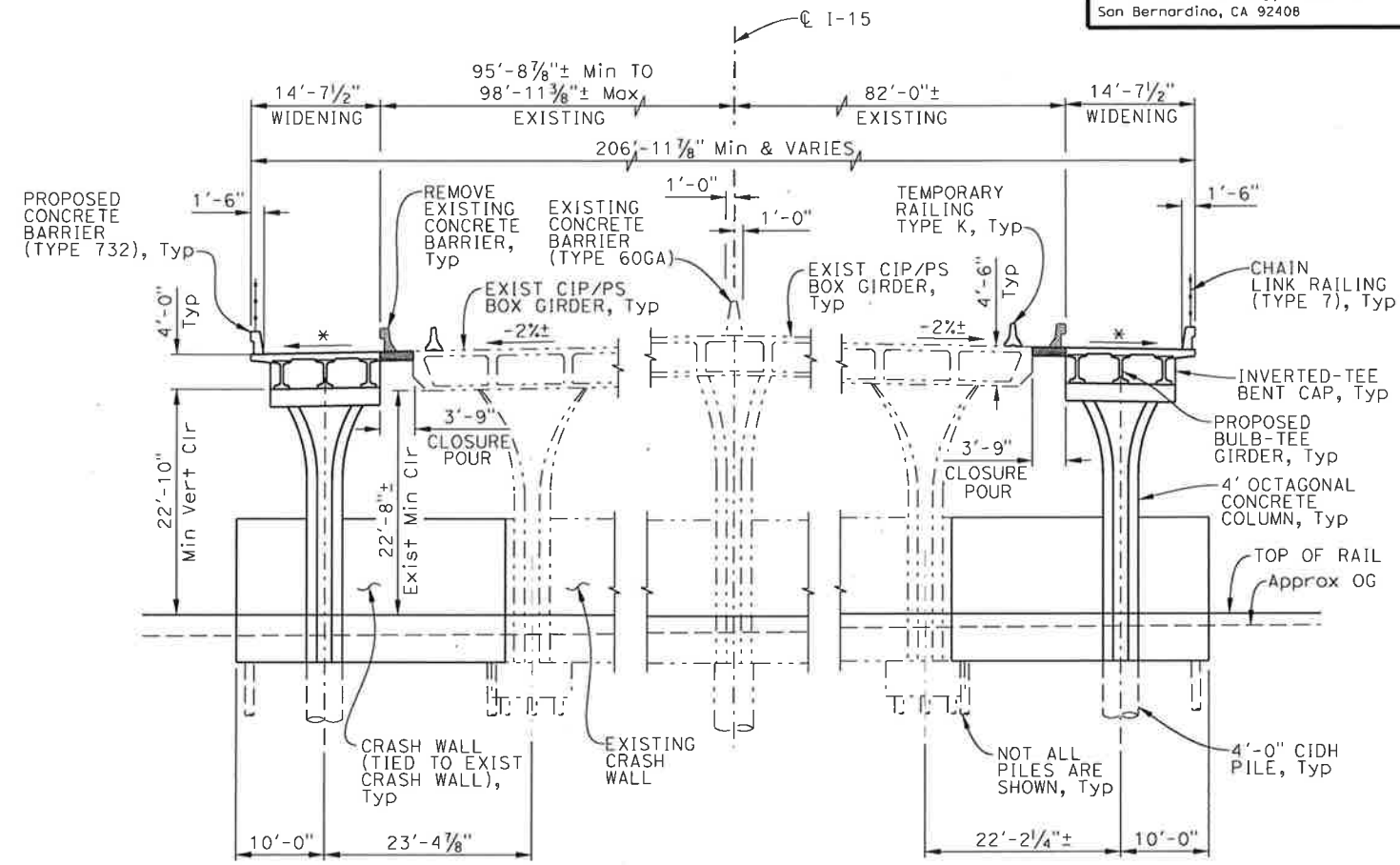
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, Sbd	15	2.15
SANBAG 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715 WSP PARSONS BRINCKERHOFF 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			



**DEVELOPED ELEVATION**  
1" = 20'



**PLAN**  
1" = 20'



**TYPICAL SECTION**  
1" = 10'

\* MATCH EXISTING SLOPE

- LEGEND:**
- Indicates bridge removal
  - Indicates closure pour
  - Indicates existing bridge
  - Indicates bridge widening
  - Indicates point of minimum vertical clearance
  - Indicates direction of traffic

	Existing	Widening	Required
Minimum Vertical Clearance	22'-8"	22'-10"	23'-4"

DATE OF ESTIMATE	5-31-2016
BRIDGE REMOVAL	= 1,212.5 Sq Ft
STRUCTURE DEPTH	= 4'-0"
LENGTH	= 161'-8"
WIDTH	= 29.25'
AREA	= 4,729 Sq Ft
COST/□ INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$412
TOTAL COST	= \$1,949,000

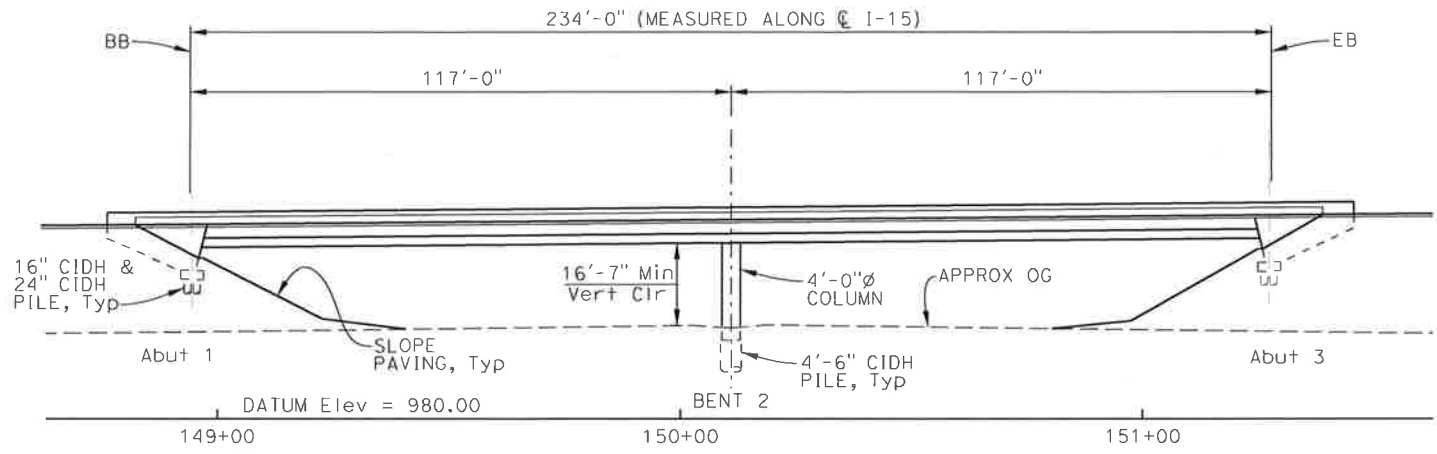
DESIGNED BY	M. RAOOF	DATE	05/2016
DRAWN BY	P. TAM	DATE	05/2016
CHECKED BY	S. CHOU	DATE	05/2016
APPROVED	X	DATE	05/2016

<b>PLANNING STUDY</b>	
<b>VINA VISTA OH (WIDEN)</b>	
BRIDGE NO. 54-0907	UNIT: 8
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184

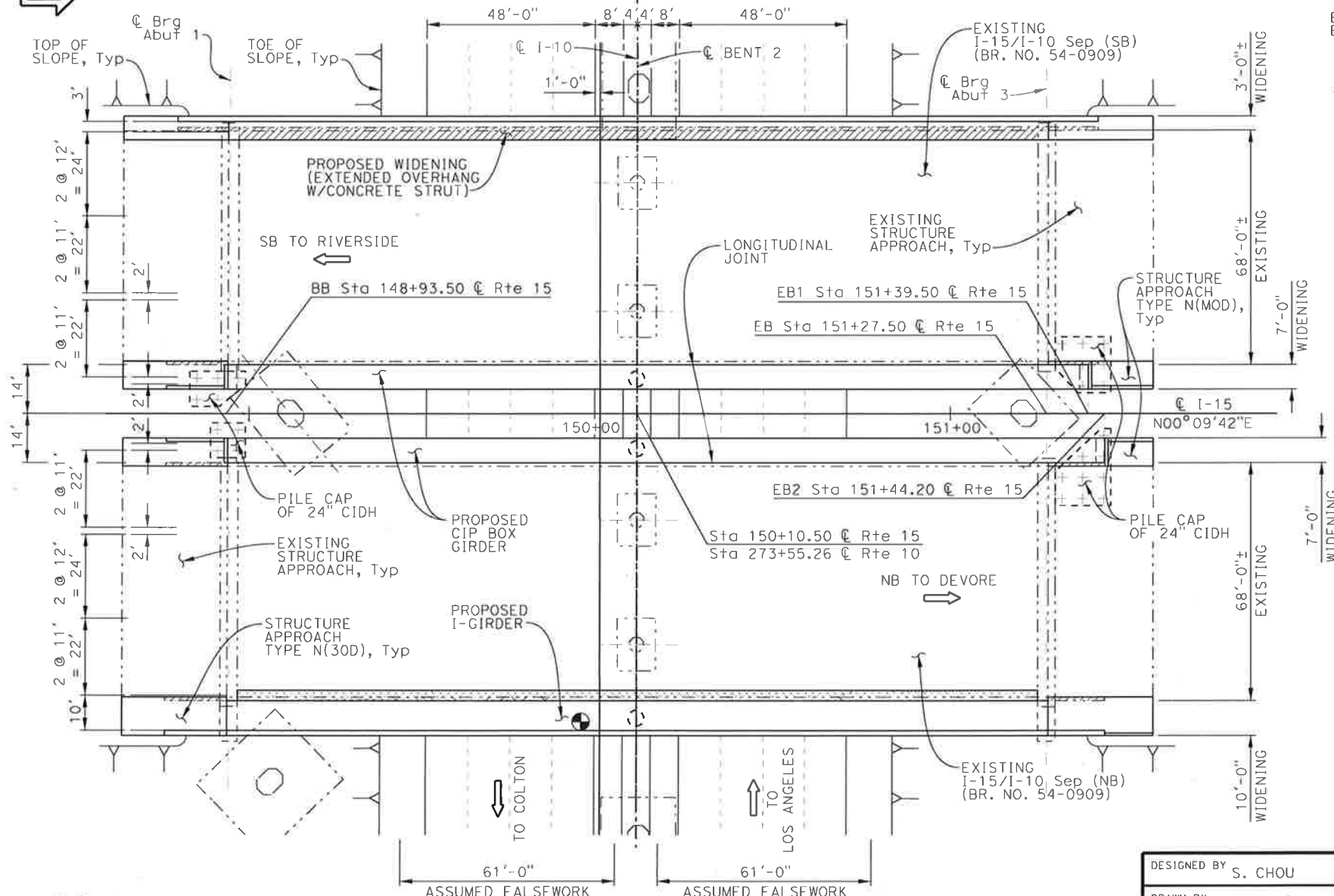
DESIGN OVERSIGHT  
X SIGN OFF DATE 8/10/16



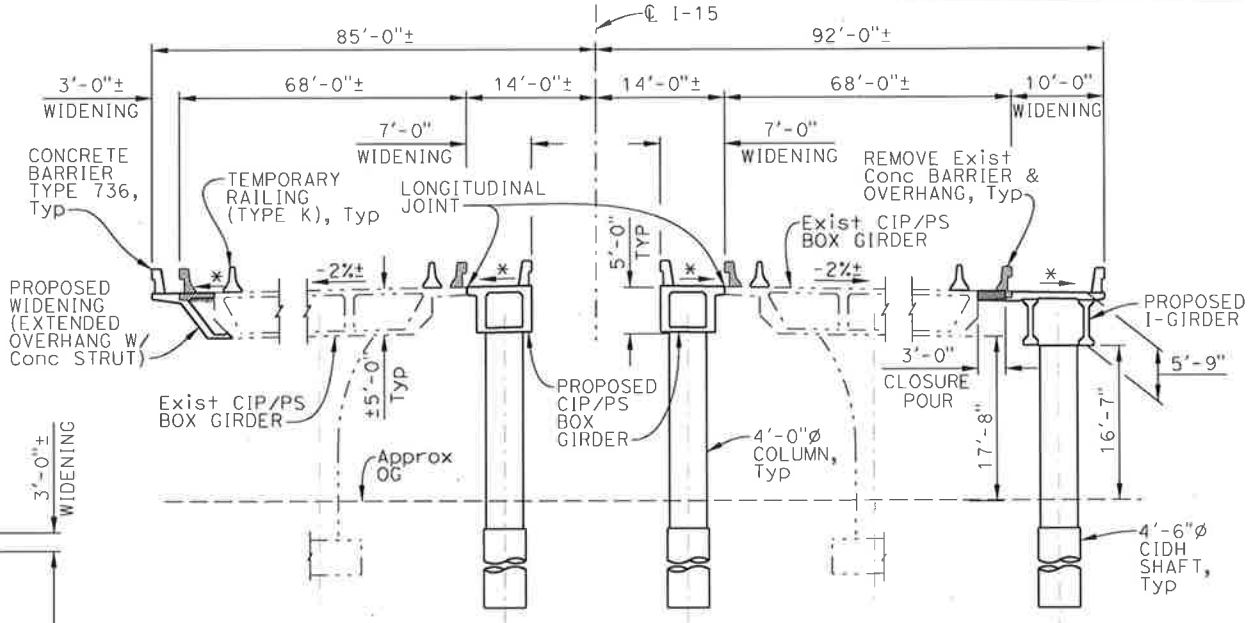
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, Sbd	15	2.37
SBCTA 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715 WSP PARSONS BRINCKERHOFF 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			



**ELEVATION**  
1" = 20'



**PLAN**  
1" = 20'



**TYPICAL SECTION**  
1" = 10'

\* MATCH EXISTING SLOPE

NOTE: Traffic will pass through construction (15'-0" min vertical clearance required under falsework).

	Existing	Widening	Required
Minimum Vertical Clearance	17'-8"±	16'-7"	16'-6"

Note:  
EB1: End of bridge for left bridge median widening.  
EB2: End of bridge for right bridge median widening.

- LEGEND:**
- Indicates bridge removal
  - Indicates closure pour
  - Indicates existing bridge
  - Indicates bridge widening
  - Indicates point of minimum vertical clearance
  - Indicates direction of traffic

DATE OF ESTIMATE	08-10-2016
BRIDGE REMOVAL	= 52 CY (WINGWALL) & 877 Sq Ft (OVERHANG)
STRUCTURE DEPTH	= 5'-0" & 5'-9"
LENGTH	= 234'-0"
WIDTH	= 27'-0"
AREA	= 6,318 Sq Ft
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$446
TOTAL COST	= \$2,818,000

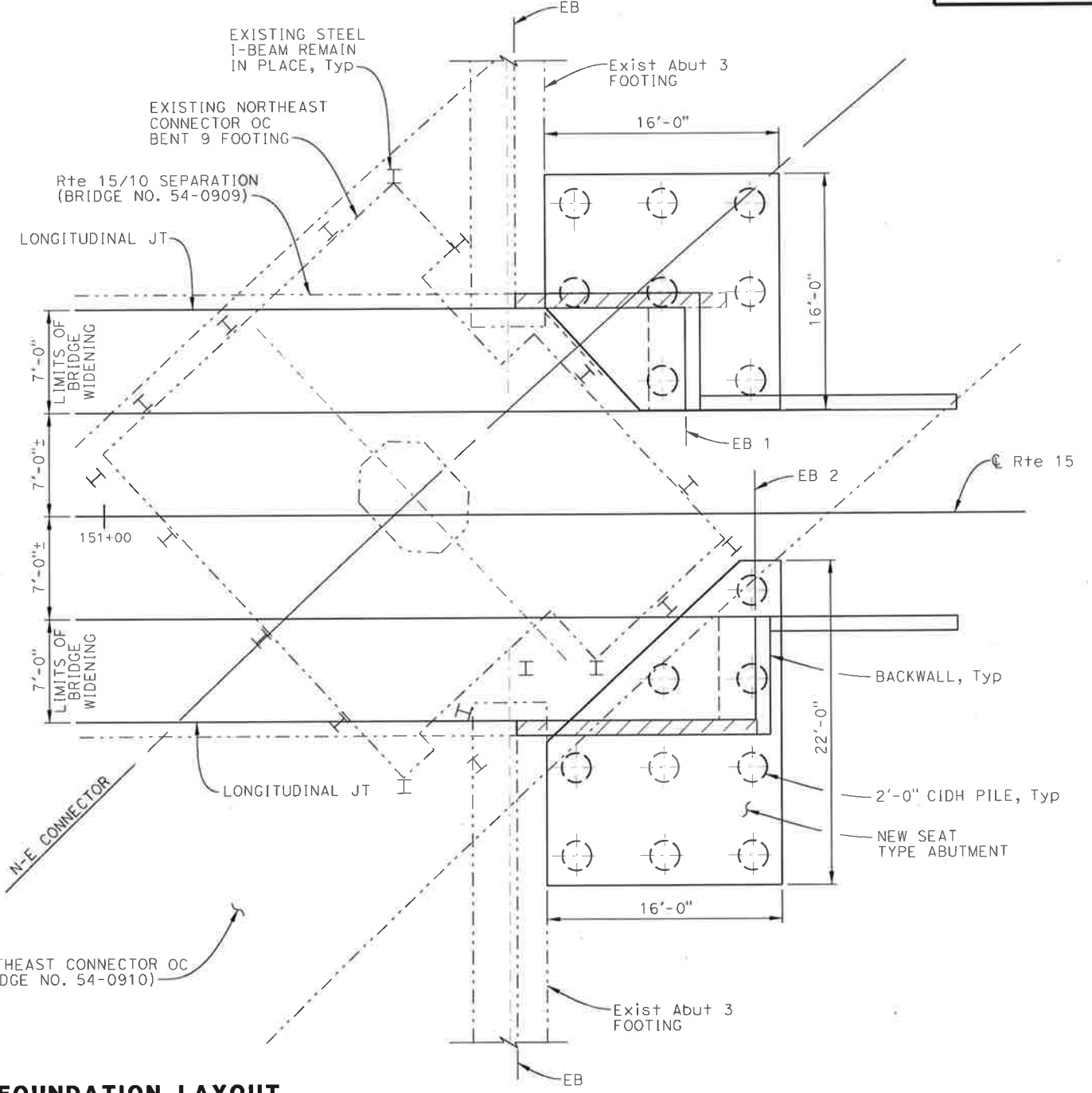
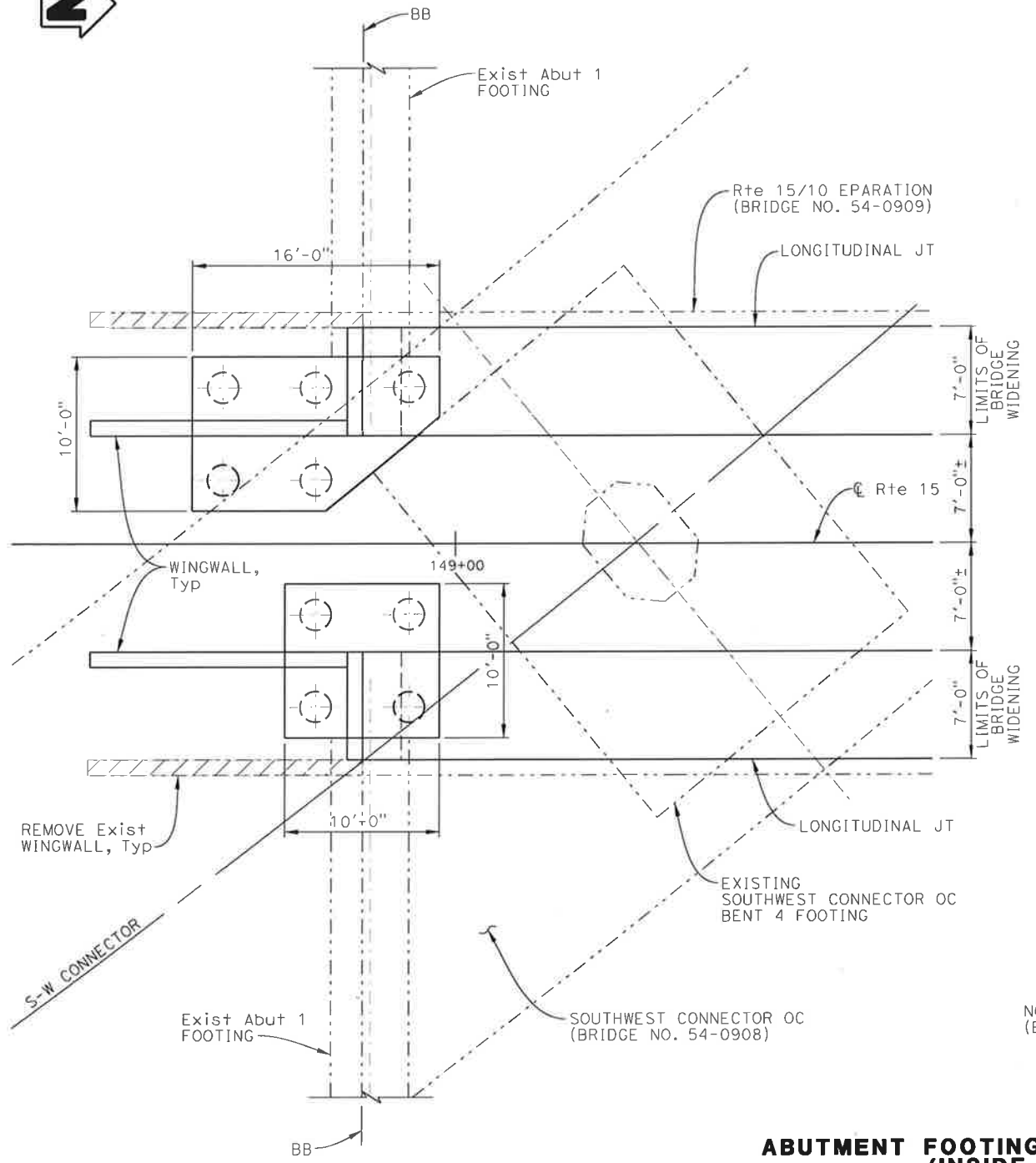
X *[Signature]*  
DESIGN OVERSIGHT  
X 10-24-17  
SIGN OFF DATE

DESIGNED BY	S. CHOU	DATE	08/2016
DRAWN BY	P. TAM	DATE	08/2016
CHECKED BY	J. LIAO	DATE	08/2016
APPROVED	X	DATE	08/2016

<b>PLANNING STUDY</b>	
<b>ROUTE 15/10 SEPARATION (WIDEN)</b>	
<b>(SHEET 1 of 2)</b>	
BRIDGE NO. 54-0909	UNIT: 2216
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, SBd	15	2.37
SBCTA 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715			
WSP PARSONS BRINCKERHOFF 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			



**ABUTMENT FOOTING FOUNDATION LAYOUT (INSIDE WIDENING)**  
 1" = 5'

X *[Signature]*  
 DESIGN OVERSIGHT  
 X 10-24-17  
 SIGN OFF DATE

DESIGNED BY	S. CHOU	DATE	08/2016
DRAWN BY	P. TAM	DATE	08/2016
CHECKED BY	J. LIAO	DATE	08/2016
APPROVED	X	DATE	08/2016

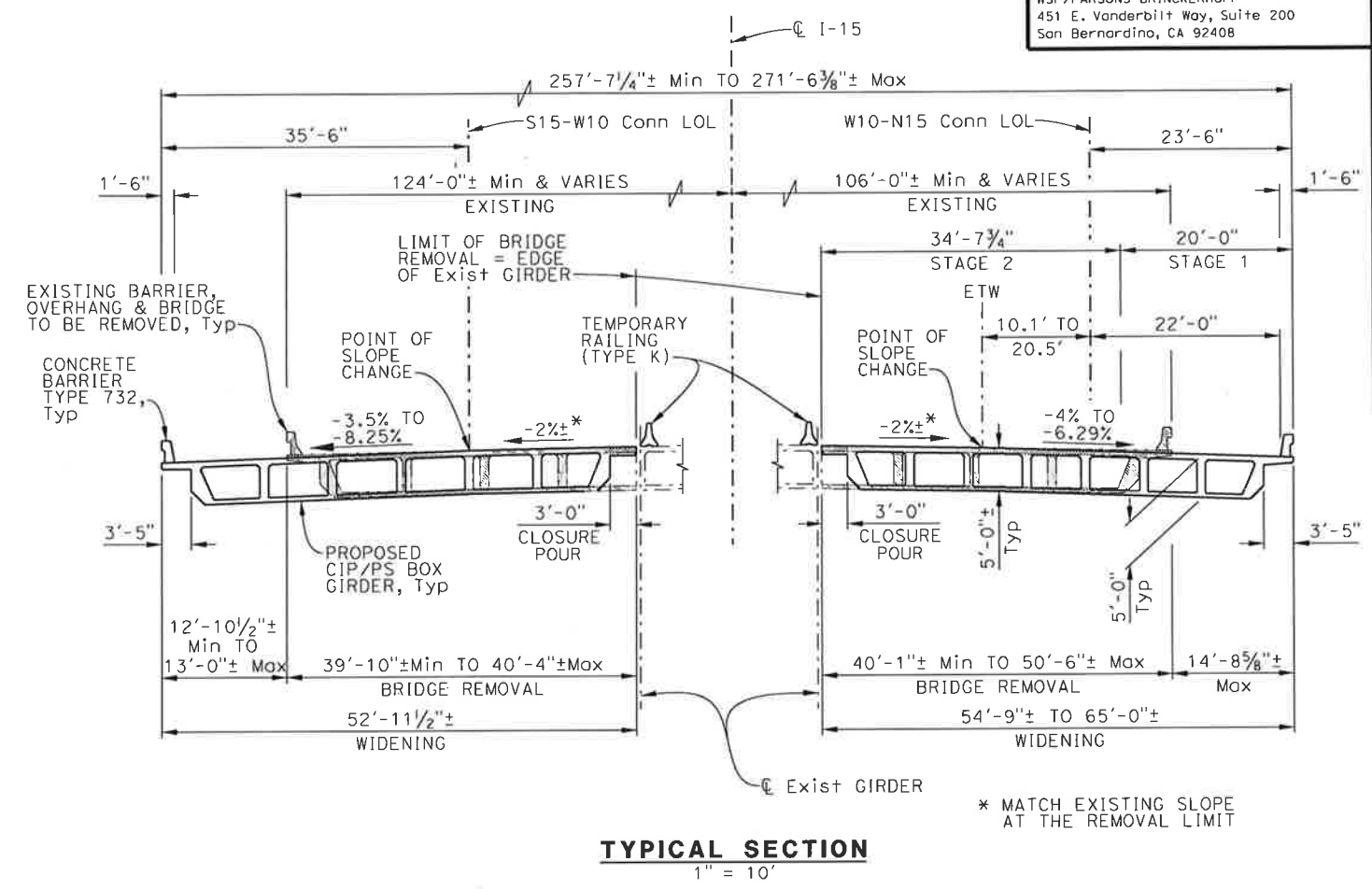
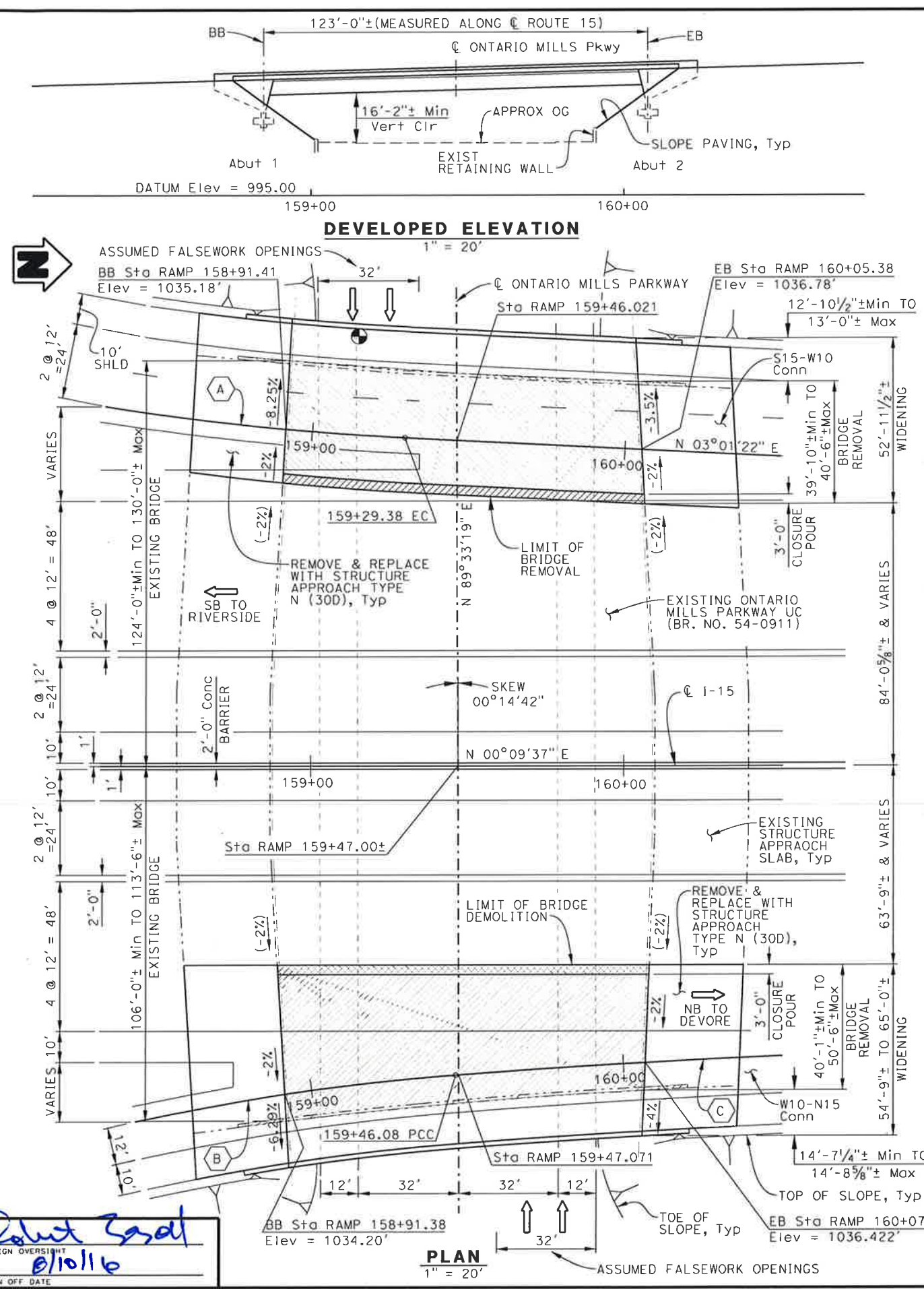
X  
 PROJECT ENGINEER

PLANNING STUDY	
ROUTE 15/10 SEPARATION (WIDEN) (SHEET 2 of 2)	
BRIDGE NO. 54-0909	UNIT: 2216
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, Sbd	15	2.56

SANBAG  
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San Bernardino, CA 92410-1715

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San Bernardino, CA 92408



NOTE: Traffic will pass through construction. (14'-0" min vert clearance required under falsework).

	Existing	Widening	Required
Minimum Vertical Clearance	16'-4"	16'-2"±	15'

**CURVE DATA**

- A R = 875'  
Δ = 02°29'10.71"  
T = 18.99'  
L = 37.97'
- B R = 750'  
Δ = 04°10'44"  
T = 27.36'  
L = 54.7'
- C R = 3000'  
Δ = 01°04'49"  
T = 28.28'  
L = 60.93'

**LEGEND:**

- Indicates bridge removal
- Indicates closure pour
- Indicates existing bridge
- Indicates bridge widening
- Indicates point of minimum vertical clearance
- Indicates direction of traffic

DATE OF ESTIMATE = 5-31-2016

BRIDGE REMOVAL = 10,505 Sq Ft

STRUCTURE DEPTH = 5'-0"

LENGTH = 123'

WIDTH = 112.83'

AREA = 13,878 Sq Ft

COST/□ INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = \$215

TOTAL COST = \$2,990,000

DESIGNED BY	M. RAOOF	DATE	04/2016
DRAWN BY	P. TAM	DATE	04/2016
CHECKED BY	S. CHOU	DATE	04/2016
APPROVED	X	DATE	04/2016

PLANNING STUDY	
ONTARIO MILLS PARKWAY UC (WIDEN)	
BRIDGE NO. 54-0911	UNIT: 8
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184

DESIGN OVERSIGHT  
SIGN OFF DATE

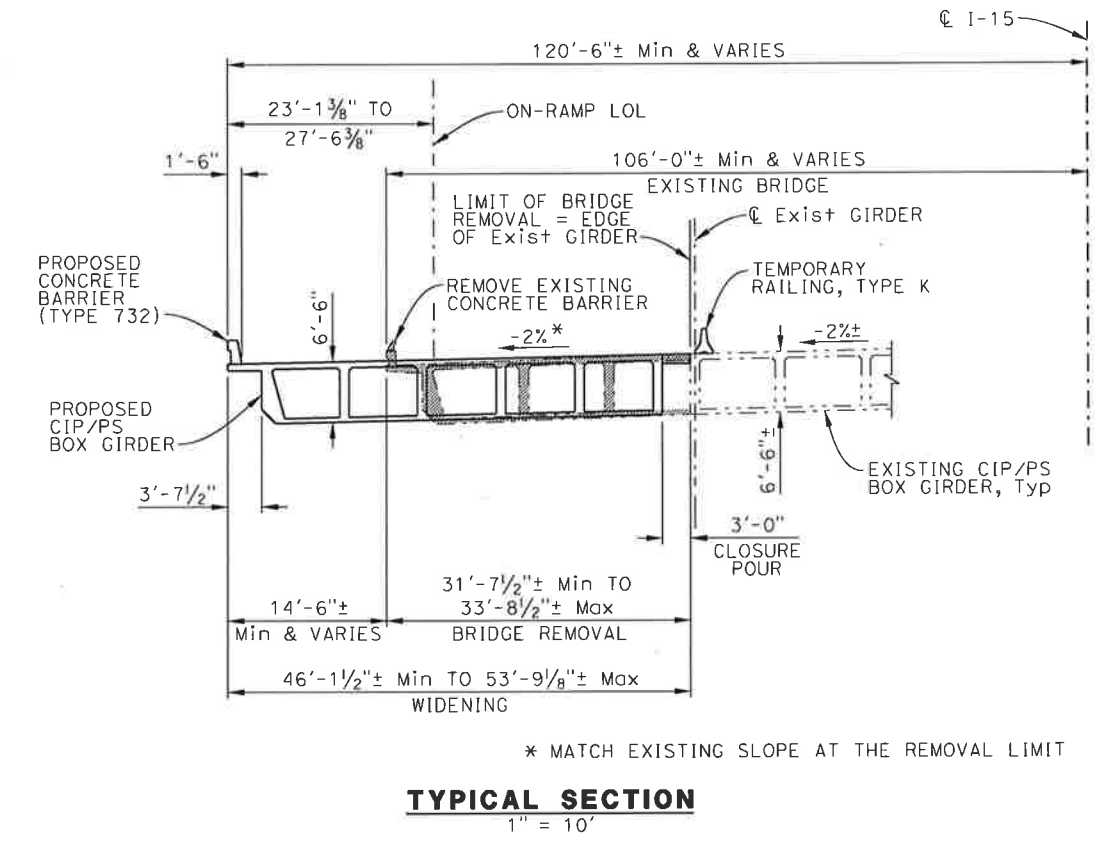
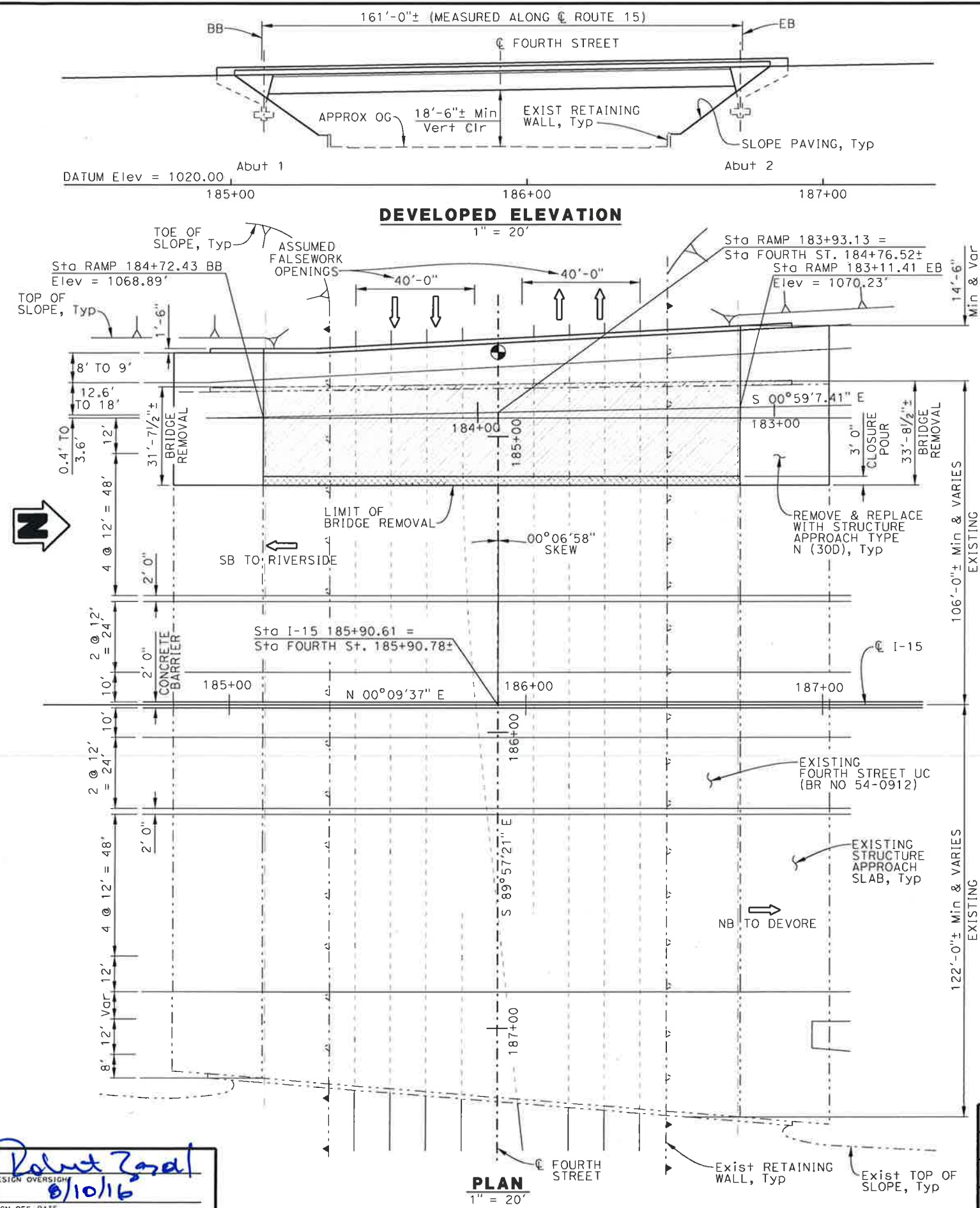
*Robert Sood*  
01/10/16



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, SBd	15	3.05

SANBAG  
1170 W. 3rd Street, 2nd Floor  
San Bernardino, CA 92410-1715

WSP/PARSONS BRINCKERHOFF  
451 E. Vanderbilt Way, Suite 200  
San Bernardino, CA 92408



NOTE: Traffic will pass through construction, (15'-0" min vert clearance required under falsework).

	Existing	Widening	Required
Minimum Vertical Clearance	18'-6"	18'-7"±	15'

- LEGEND:**
- Indicates bridge removal
  - Indicates closure pour
  - Indicates existing bridge
  - Indicates bridge widening
  - Indicates point of minimum vertical clearance
  - Indicates direction of traffic

DATE OF ESTIMATE = 5-31-2016

BRIDGE REMOVAL = 5,259 Sq Ft

STRUCTURE DEPTH = 6'-6"

LENGTH = 161'-0"

WIDTH = 49.94'

AREA = 8,040 Sq Ft

COST/□ INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = \$209

TOTAL COST = \$1,679,000

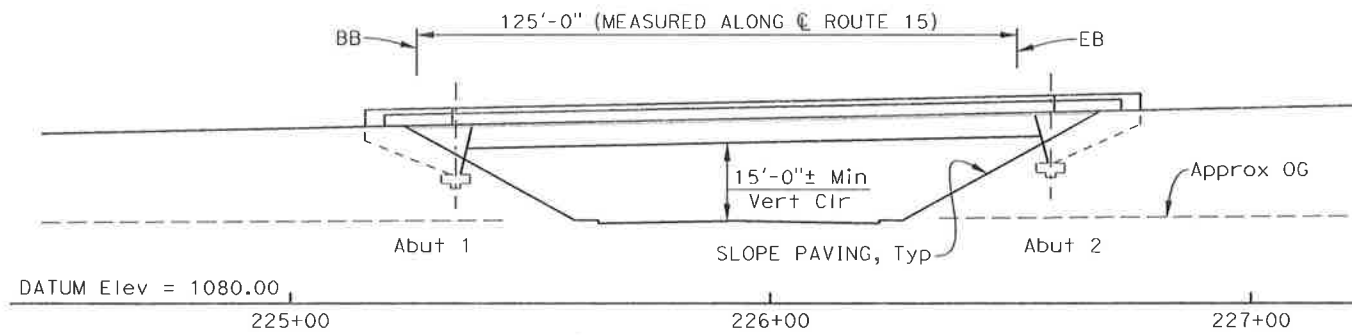
*Robert Zasad*  
DESIGN OVERSIGHT  
8/10/16

DESIGNED BY	M. RAOOF	DATE	04/2016
DRAWN BY	P. TAM	DATE	04/2016
CHECKED BY	S. CHOU	DATE	04/2016
APPROVED	X	DATE	04/2016

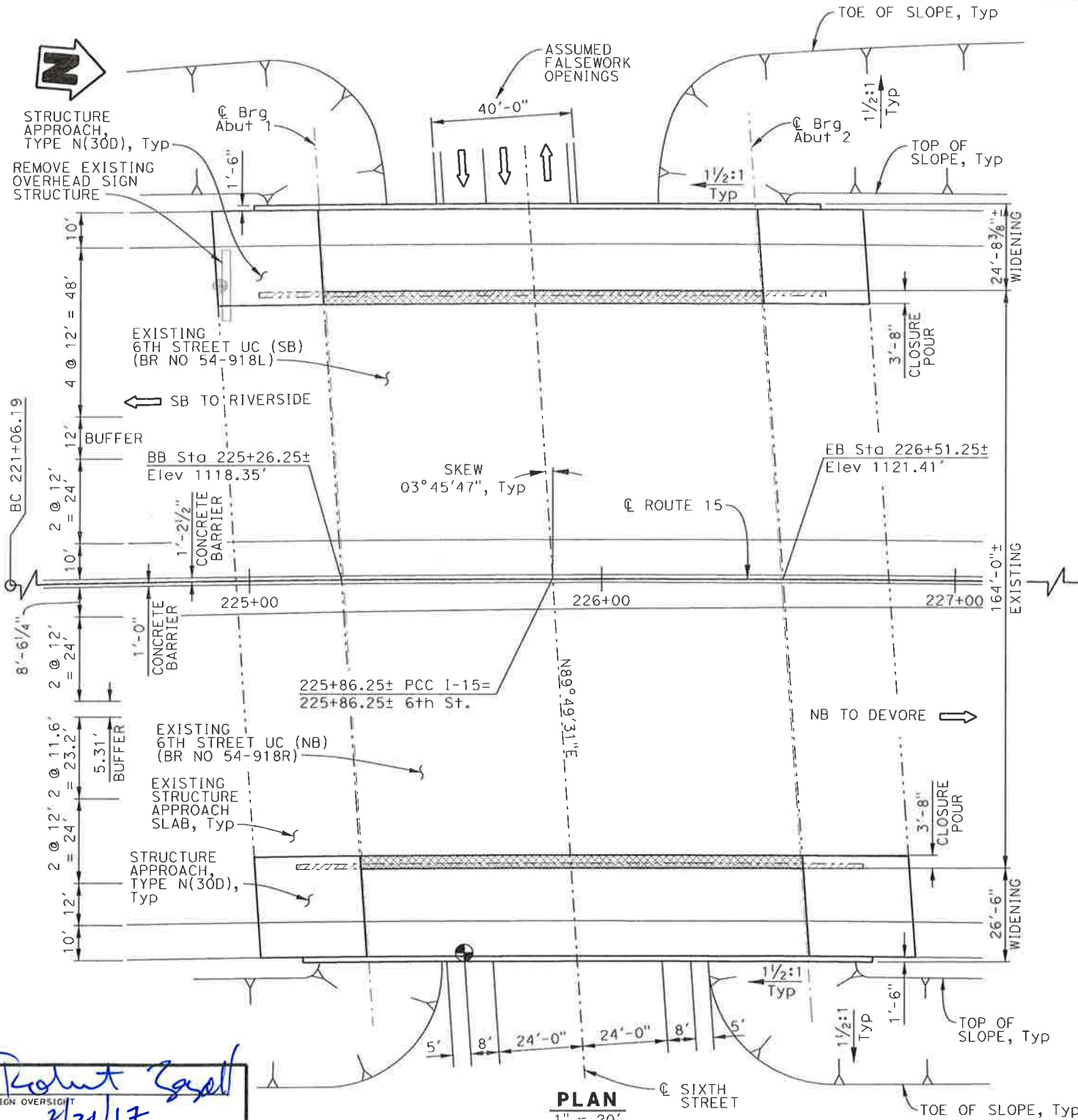
<b>PLANNING STUDY</b>	
<b>FOURTH STREET UC (WIDEN)</b>	
BRIDGE NO. 54-0912	UNIT: B
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184



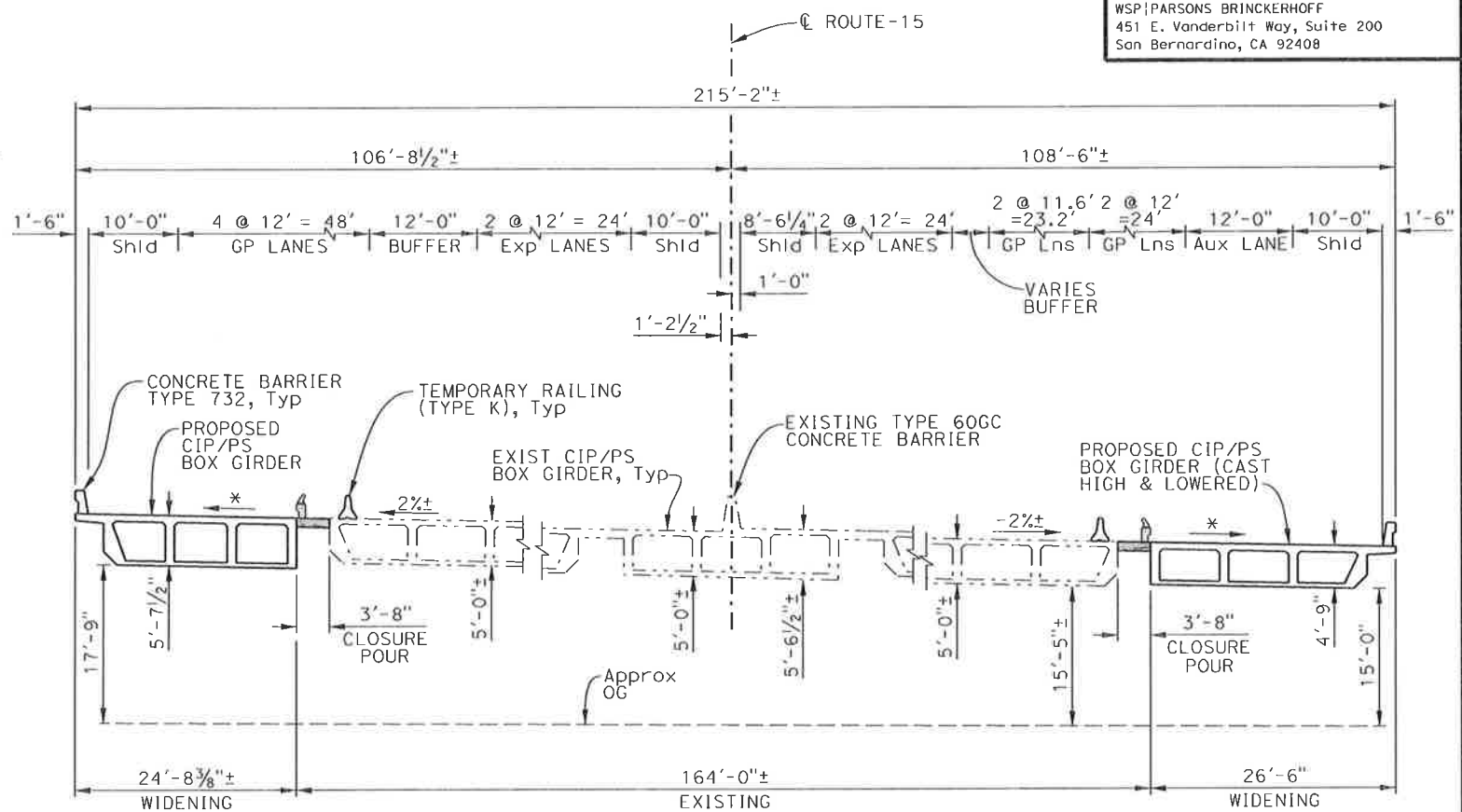
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	SBd	15	3.81
SANBAG 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715 WSP PARSONS BRINCKERHOFF 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			



**DEVELOPED ELEVATION**  
1" = 20'



**PLAN**  
1" = 20'



**TYPICAL SECTION**  
1" = 10'

NOTE: Traffic will pass through construction. (15'-0" min vert clearance required under falsework). The right bridge will be cast high and lowered.

\* NOTE: Match existing slope

	Existing	Widening	Required
Minimum Vertical Clearance	15'-5"±	15'-0"	15'-0"

- LEGEND:**
- Indicates bridge removal
  - Indicates closure pour
  - Indicates existing bridge
  - Indicates bridge widening
  - Indicates point of minimum vertical clearance
  - Indicates direction of traffic

**CURVE DATA**

A R = 8000'  
 Δ = 44°38'00"  
 T = 3283.76'  
 L = 6231.99'

**DATE OF ESTIMATE** = 06-28-2016

**BRIDGE REMOVAL** = 917.5 Sq Ft

**STRUCTURE DEPTH** = 5' 7 1/2" (L) & 4'-9" (R)

**LENGTH** = 125'-0"

**WIDTH** = 51.2'

**AREA** = 6,400 Sq Ft

**COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY** = \$222

**TOTAL COST** = \$1,421,000

DESIGNED BY	M. RAOOF	DATE	03-2016
DRAWN BY	P. TAM	DATE	03-2016
CHECKED BY	S. CHOU	DATE	03-2016
APPROVED	X	DATE	X

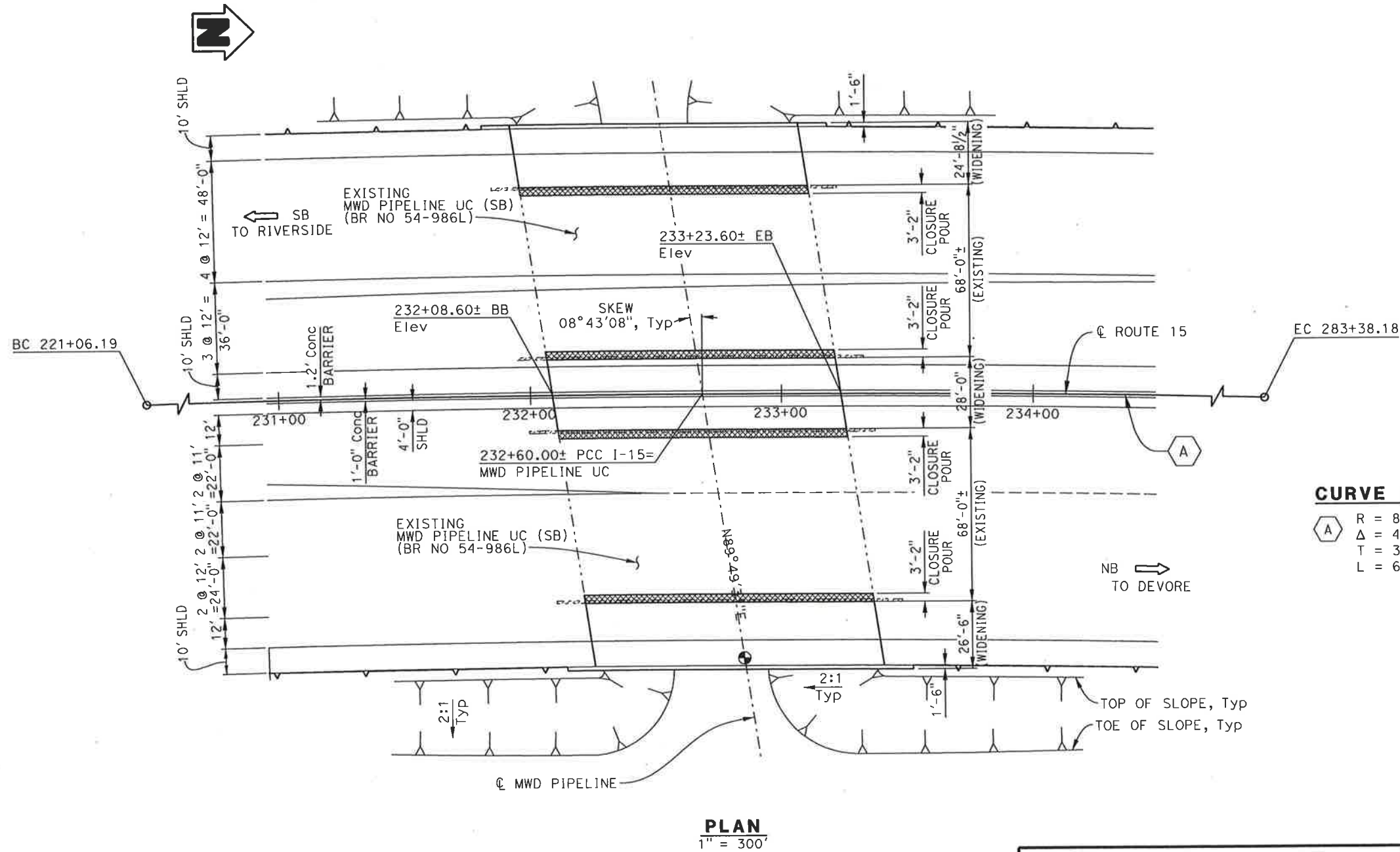
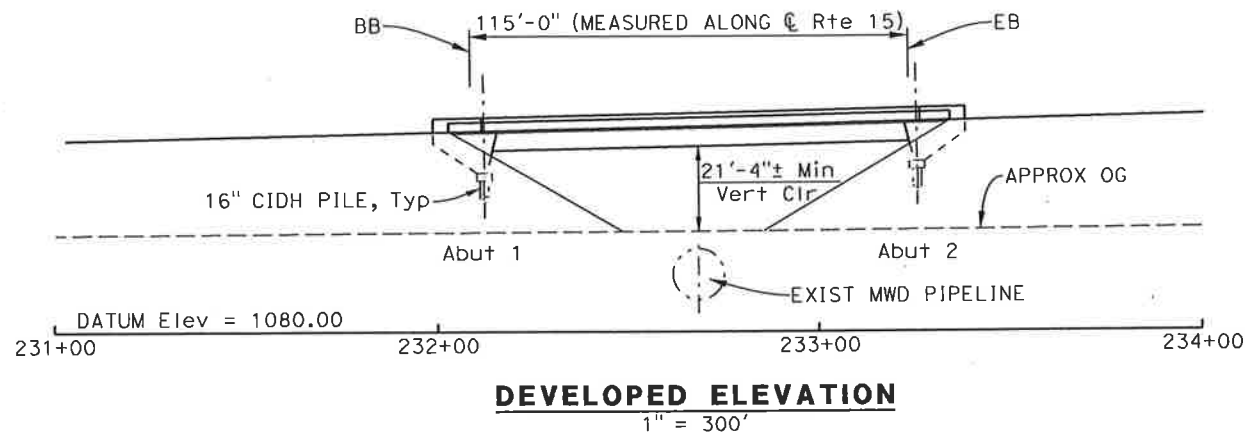
<b>PLANNING STUDY</b>	
<b>SIXTH STREET UC (WIDEN)</b>	
BRIDGE NO. 54-0918R/L	UNIT: 2216
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184

X Robert Taylor  
 DESIGN OVERSIGHT  
 X 2/21/17  
 SIGN OFF DATE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, SBd	15	3.94

SANBAG  
1170 W. 3rd Street, 2nd Floor  
San Bernardino, CA 92410-1715

WSP/PARSONS BRINCKERHOFF  
451 E. Vanderbilt Way, Suite 200  
San Bernardino, CA 92408



**CURVE DATA**

A	R = 8000'
	Δ = 44°38'00"
	T = 3283.76'
	L = 6231.99'

- LEGEND:**
- Indicates bridge removal
  - Indicates closure pour
  - Indicates existing bridge
  - Indicates bridge widening
  - Indicates point of minimum vertical clearance
  - Indicates direction of traffic

DATE OF ESTIMATE	= 12-29-2015
BRIDGE REMOVAL	= 1457 Sq Ft
STRUCTURE DEPTH	= 5'-2"
LENGTH	= 115 Ft
WIDTH	= 79.2 Ft
AREA	= 9,108 Sq Ft
COST/□ INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$241
TOTAL COST	= \$2,191,000

X *Dahut Zandi*  
DESIGN OVERSIGHT  
2/19/16  
X  
SIGN OFF DATE

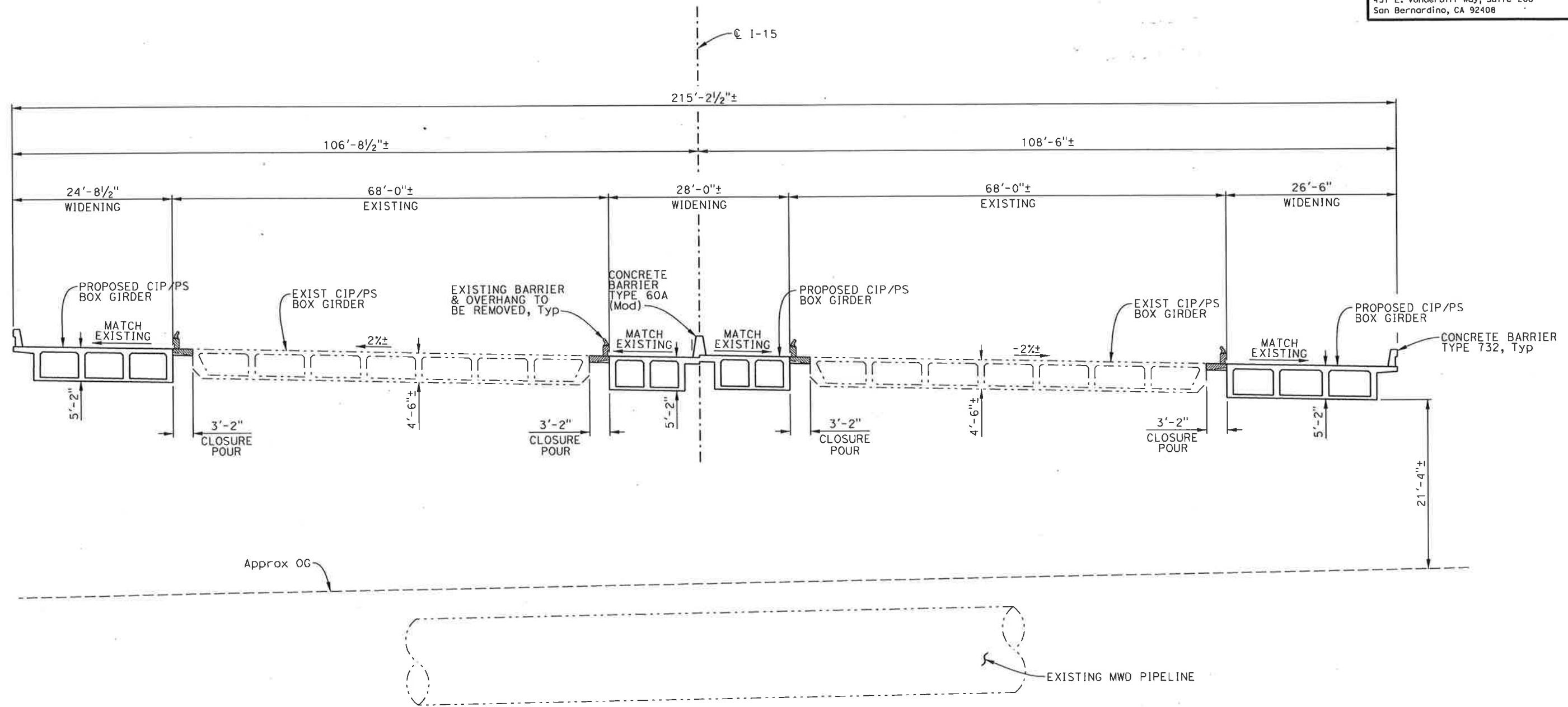
DESIGNED BY	M. RAOOF	DATE	12/2015
DRAWN BY	P. TAM	DATE	12/2015
CHECKED BY	S. CHOU	DATE	12/2015
APPROVED	X	DATE	X

S. CHOU  
PROJECT ENGINEER

PLANNING STUDY	
MWD PIPELINE UC (WIDEN)	
BRIDGE NO. 54-0986RL	UNIT: 8
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, SBd	15	3.94
SANBAG 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715			
WSP/PARSONS BRINCKERHOFF 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			



**TYPICAL SECTION**  
1" = 100'

**LEGEND:**

	Indicates bridge removal
	Indicates closure pour
	Indicates existing bridge
	Indicates bridge widening

\* NOTE: Match existing slope

DESIGNED BY	M. RAOOF	DATE	12/2015
DRAWN BY	P. TAM	DATE	12/2015
CHECKED BY	S. CHOU	DATE	12/2015
APPROVED	X	DATE	X

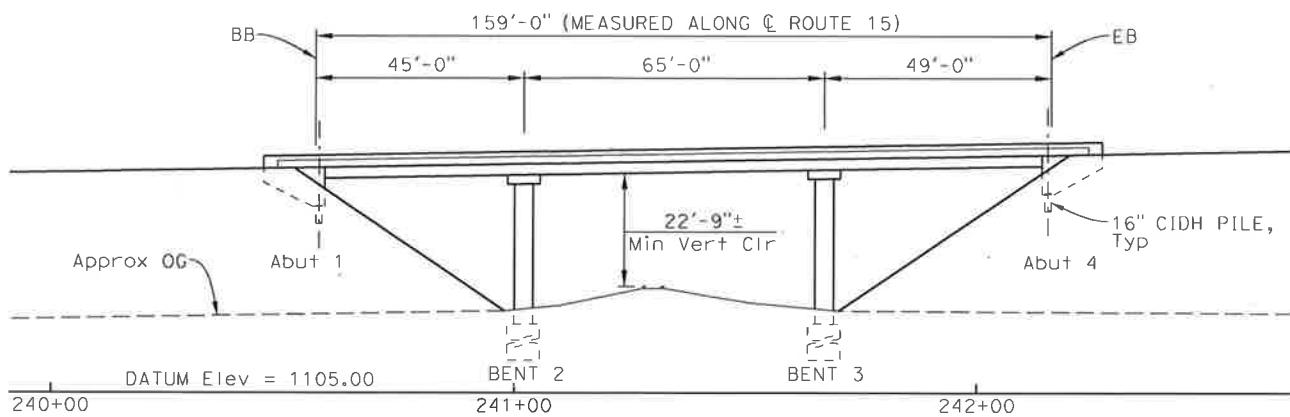
S. CHOU  
PROJECT ENGINEER

<b>PLANNING STUDY</b>	
<b>MWD PIPELINE UC (WIDEN)</b>	
BRIDGE NO. 54-0986RL	UNIT: 8
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184

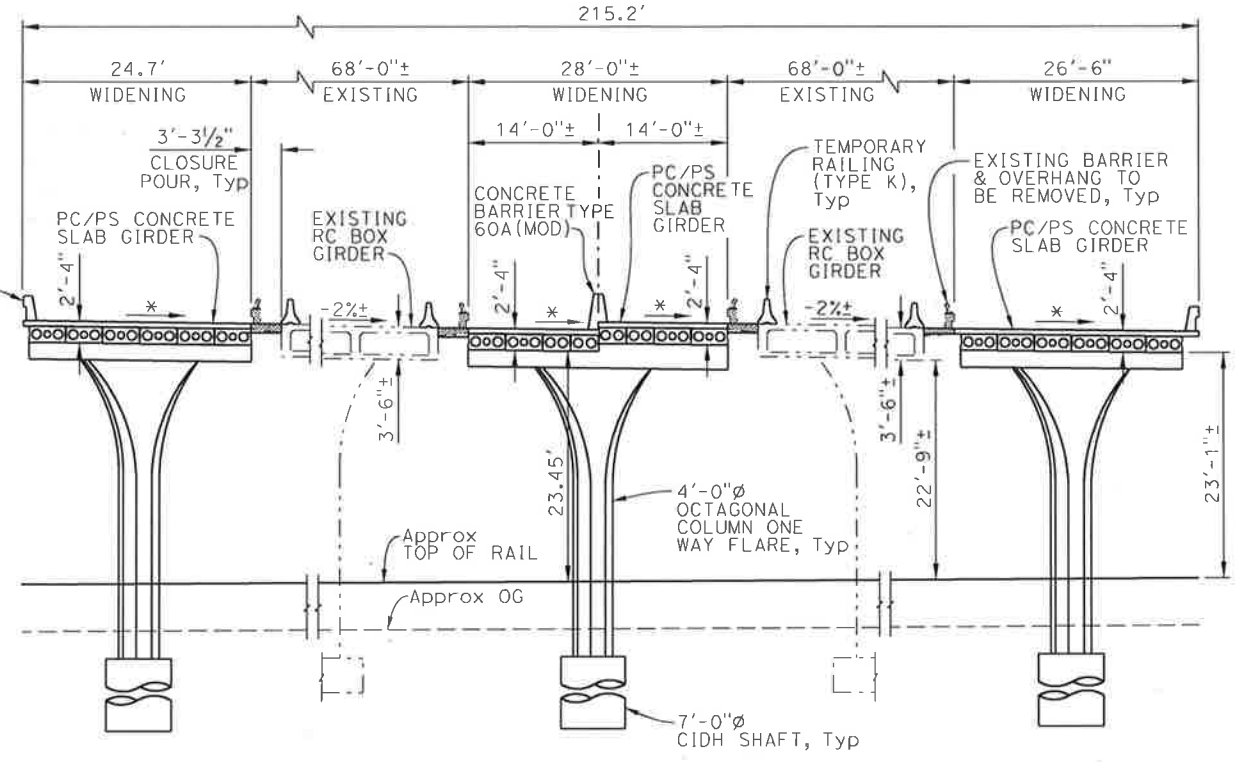
X *Robert Z...*  
DESIGN OVERSIGHT  
2/19/16  
X  
SIGN OFF DATE



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, Sbd	15	4.1
SBCTA 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715			
WSP PARSONS BRINCKERHOFF 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			

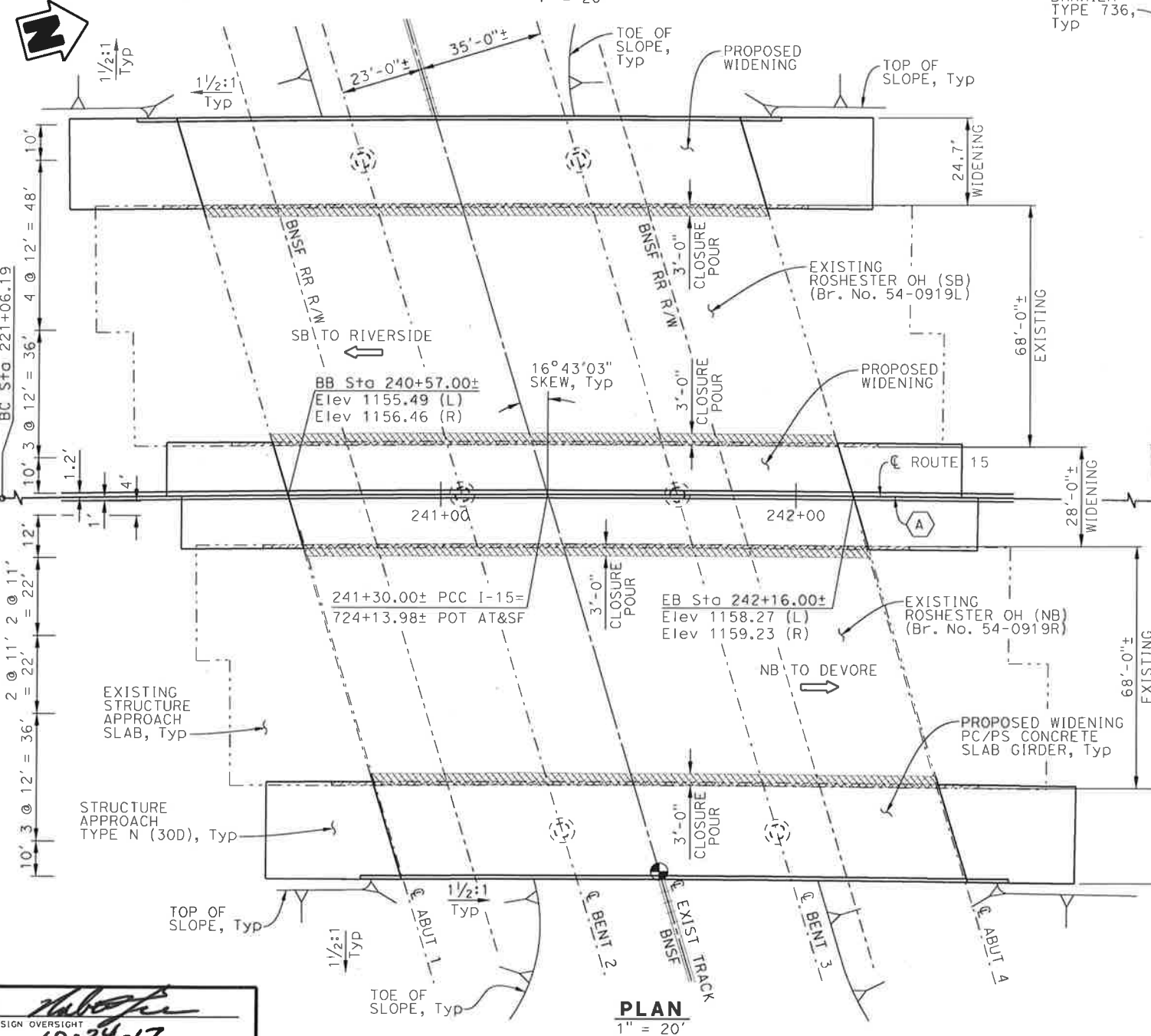


**DEVELOPED ELEVATION**  
1" = 20'



**TYPICAL SECTION**  
1" = 10'

\* MATCH EXISTING SLOPE



**PLAN**  
1" = 20'

**CURVE DATA**

A	R = 8000.00'
	Δ = 44° 38' 08"
	T = 3283.75'
	L = 6231.04'

	Existing	Widening	Required
Minimum Vertical Clearance	22'-9"	23'-1"	23'-4"

**LEGEND:**

- Indicates bridge removal
- Indicates closure pour
- Indicates existing bridge
- Indicates bridge widening
- Indicates point of minimum vertical clearance
- Indicates direction of traffic

DATE OF ESTIMATE	06-15-2016
BRIDGE REMOVAL	= 2,212 Sq Ft
STRUCTURE DEPTH	= 4.13' & 5.13'
LENGTH	= 159'
WIDTH	= 80.38'
AREA	= 12,780 Sq Ft
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$280
TOTAL COST	= \$3,573,000

DESIGNED BY	M. RAOOF	DATE	06/2016
DRAWN BY	P. TAM	DATE	06/2016
CHECKED BY	S. CHOU	DATE	06/2016
APPROVED	X	DATE	06/2016

X  
PROJECT ENGINEER

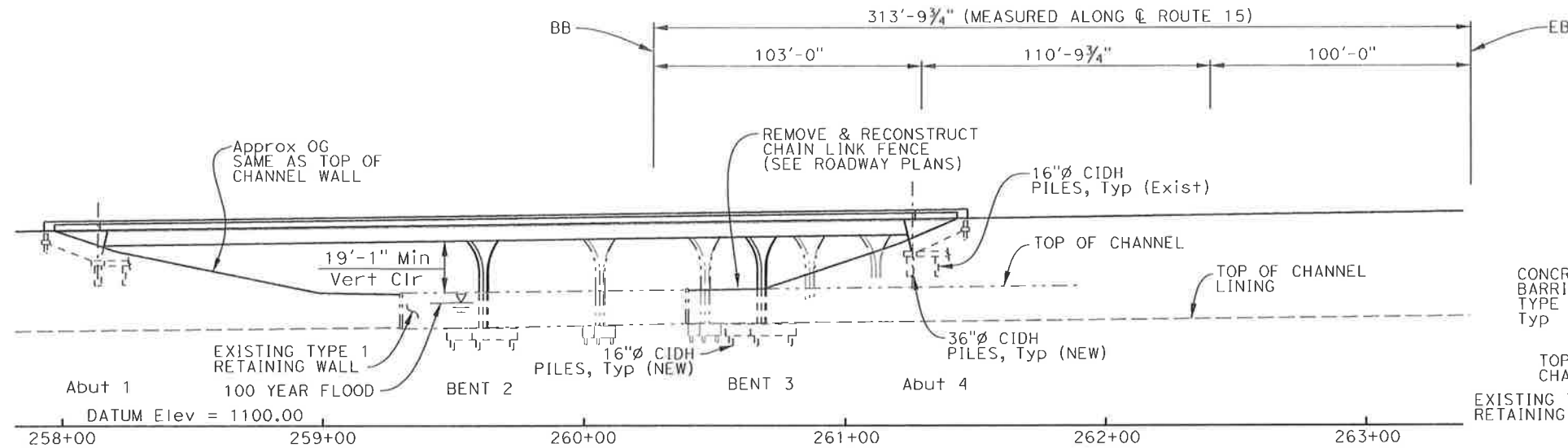
<b>PLANNING STUDY</b>	
<b>ROCHESTER OH (WIDEN)</b>	
BRIDGE NO. 54-0919	UNIT: 2216
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184

X *[Signature]*  
DESIGN OVERSIGHT  
X  
10-24-17  
SIGN OFF DATE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, SBD	15	4.47

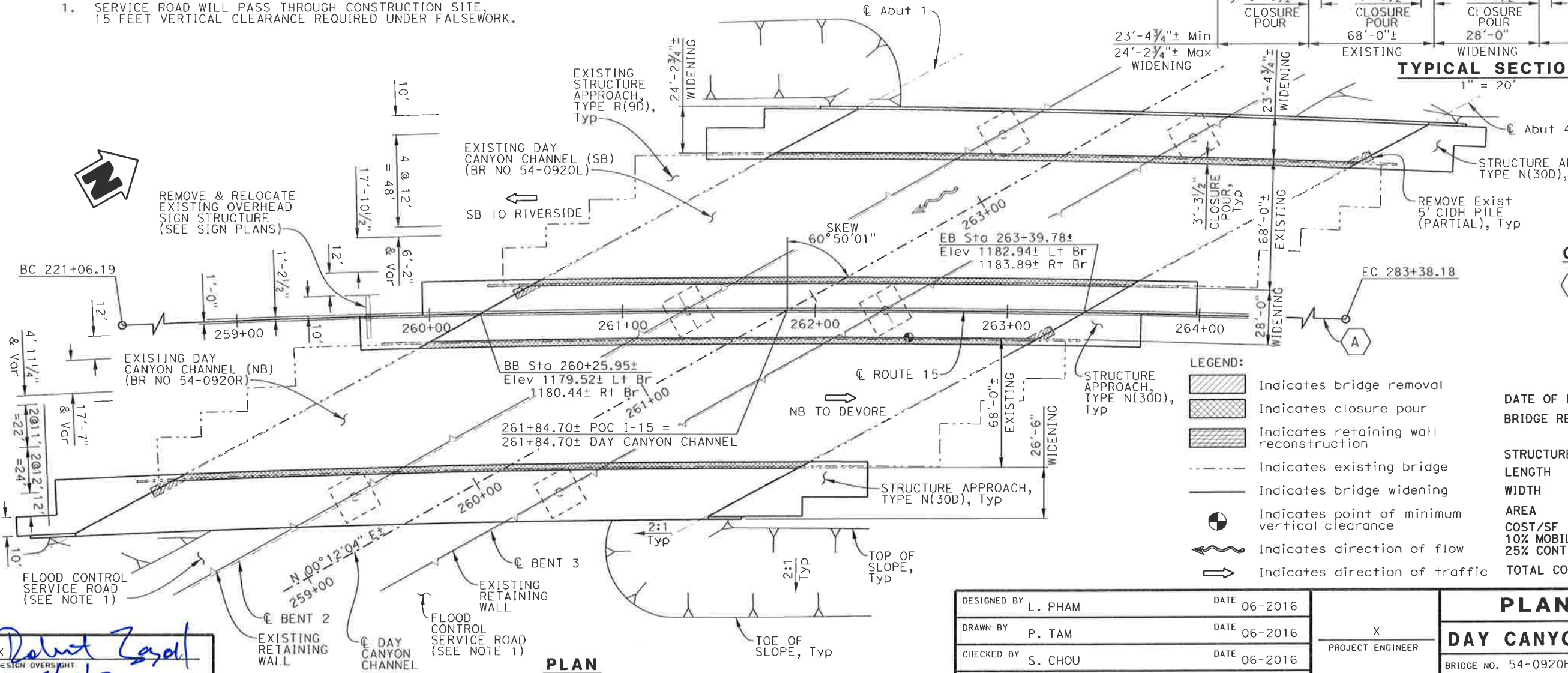
SANBAG  
1170 W. 3rd Street, 2nd Floor  
San Bernardino, CA 92410-1715

WSP|PARSONS BRINCKERHOFF  
451 E. Vanderbilt Way, Suite 200  
San Bernardino, CA 92408

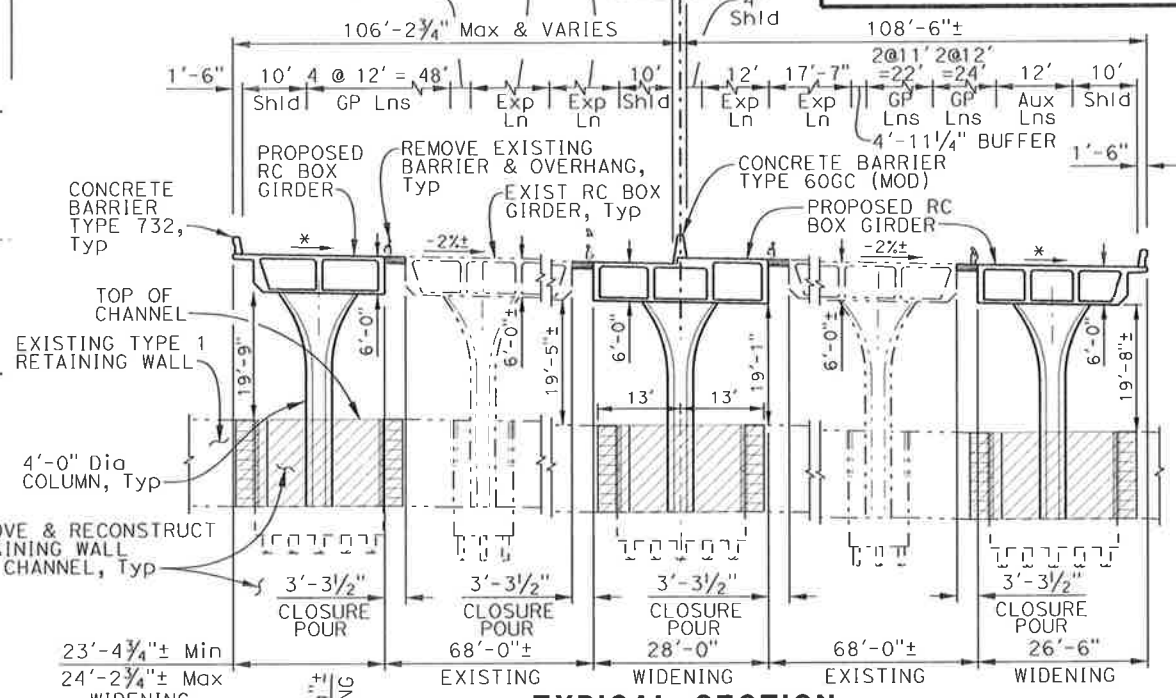


**DEVELOPED ELEVATION**  
1" = 30'

**NOTE:**  
1. SERVICE ROAD WILL PASS THROUGH CONSTRUCTION SITE, 15 FEET VERTICAL CLEARANCE REQUIRED UNDER FALSEWORK.



**PLAN**  
1" = 30'



**TYPICAL SECTION**  
1" = 20'

\* NOTE: Match existing slope

**CURVE DATA**

R =	8000'
Δ =	44° 38' 00"
T =	3283.76'
L =	6231.99'

DATE OF ESTIMATE	06-27-2016
BRIDGE REMOVAL	4,743 Sq Ft (DECK) = 100 CY (CIDH CAP)
STRUCTURE DEPTH	= 6'-0"
LENGTH	= 313'-9 3/4"
WIDTH	= 84'-3"
AREA	= 26,342 Sq Ft
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$421
TOTAL COST	= \$11,093,000

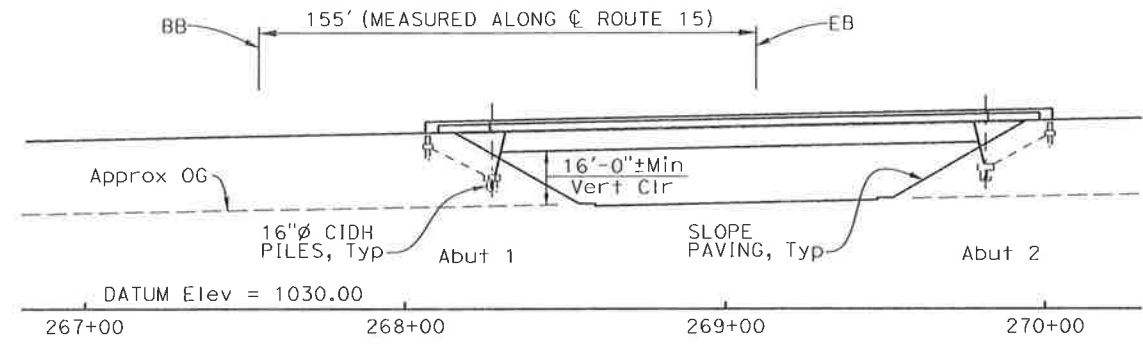
DESIGNED BY	L. PHAM	DATE	06-2016
DRAWN BY	P. TAM	DATE	06-2016
CHECKED BY	S. CHOU	DATE	06-2016
APPROVED	X	DATE	X

<b>PLANNING STUDY</b>	
<b>DAY CANYON CHANNEL (WIDEN)</b>	
BRIDGE NO. 54-0920R/L	UNIT: 2216
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184

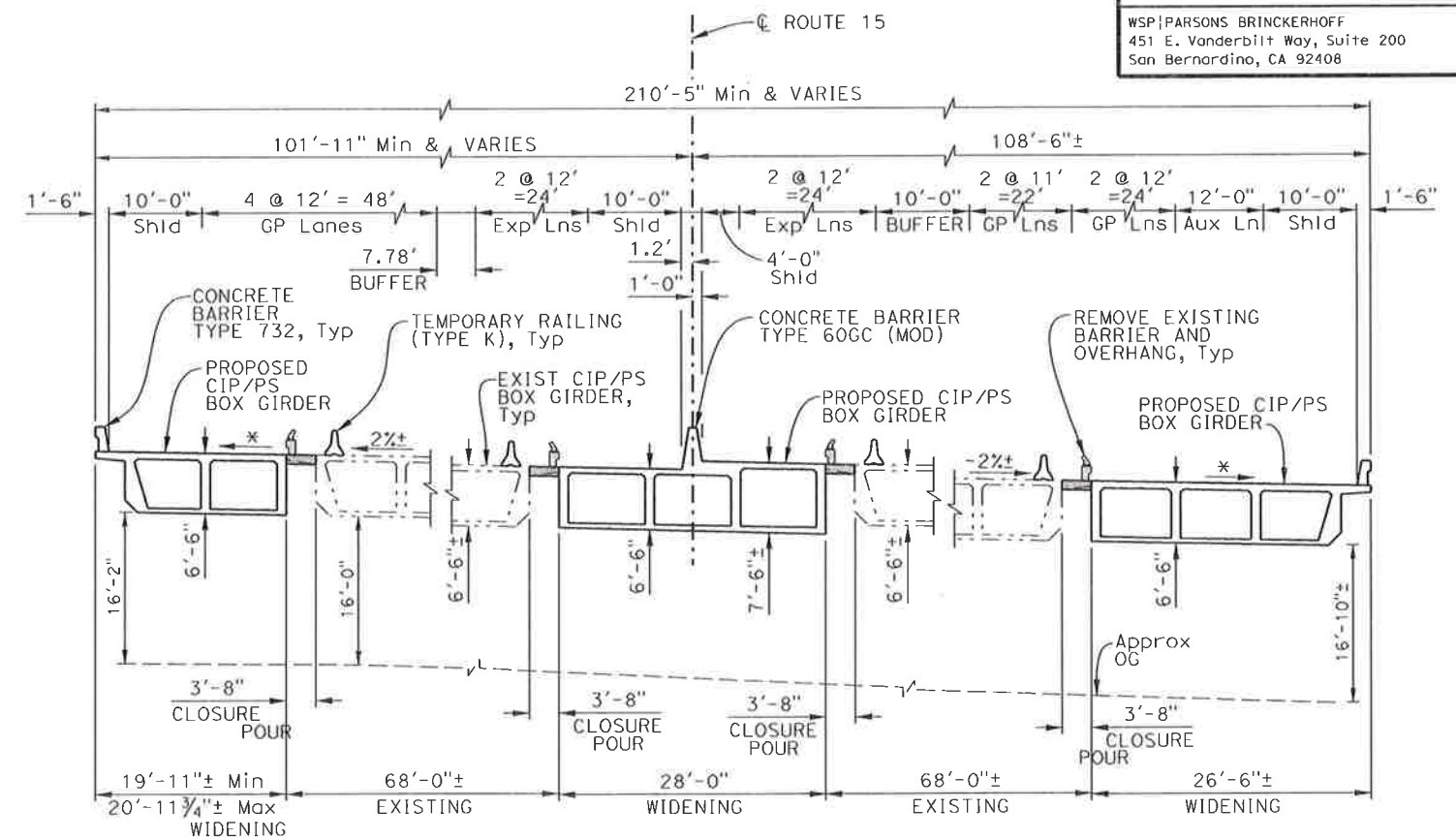
X *Robert Zayel*  
DESIGN OVERSIGHT  
X  
SIGN OFF DATE: 4/21/17



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	SBd	15	4.61
SANBAG 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715			
WSP PARSONS BRINCKERHOFF 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			



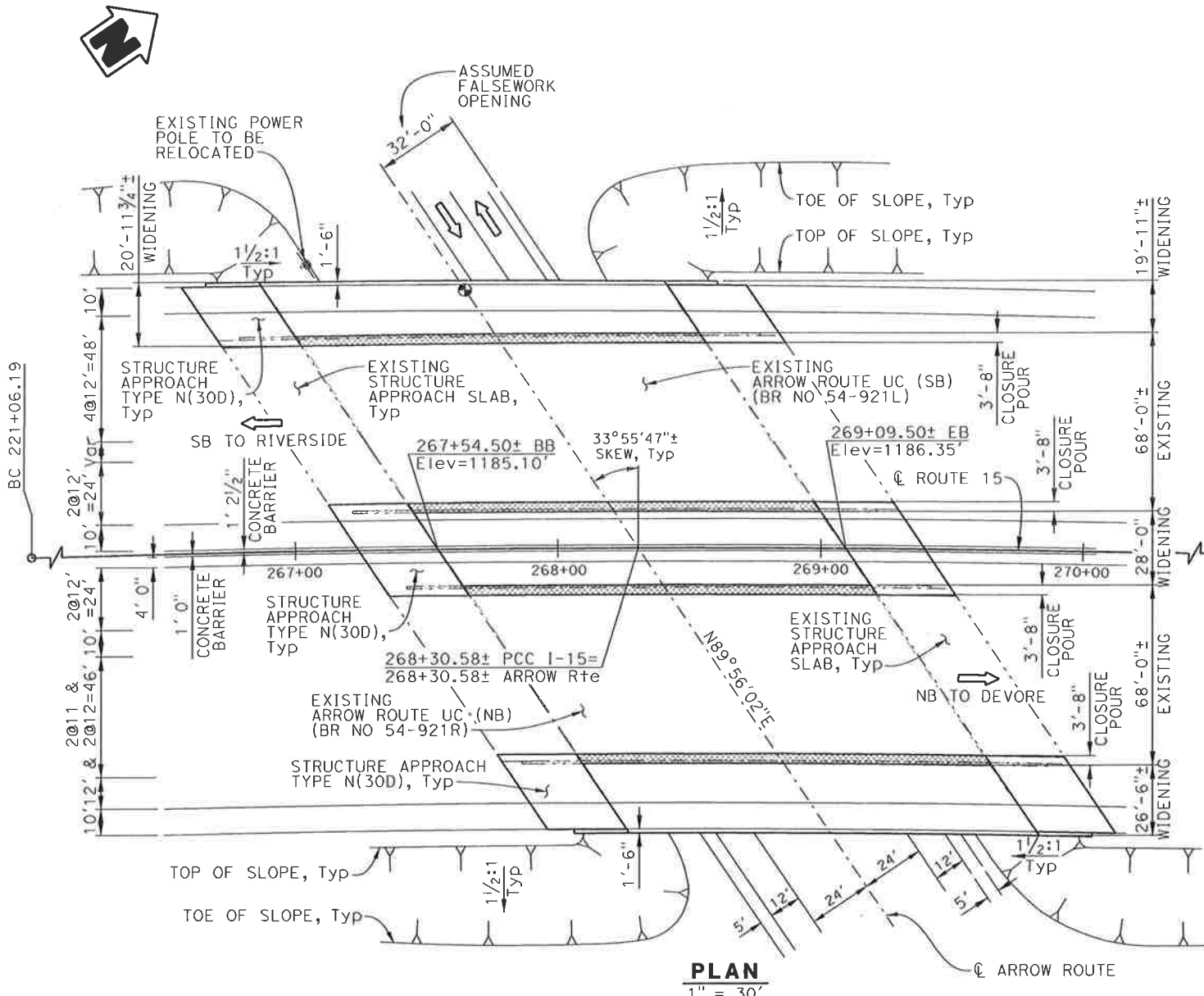
**DEVELOPED ELEVATION**  
1" = 30'



**TYPICAL SECTION**  
1" = 10'

\* NOTE: Match existing slope

Note: Traffic will pass through construction. (14'-0" min vert clearance required under falsework).



**PLAN**  
1" = 30'

	Existing	Widening	Required
Minimum Vertical Clearance	16'-0"	16'-2"	15'

**LEGEND:**

- Indicates bridge removal
- Indicates closure pour
- Indicates existing bridge
- Indicates bridge widening
- Indicates point of minimum vertical clearance
- Indicates direction of traffic

**CURVE DATA**

R = 8000'  
 Δ = 44° 38' 00"  
 T = 3283.76'  
 L = 6231.99'

DATE OF ESTIMATE	06-28-2016
BRIDGE REMOVAL	= 2273 Sq Ft
STRUCTURE DEPTH	= 6'-6"
LENGTH	= 155'-0"
WIDTH	= 74.95'
AREA	= 11617 Sq Ft
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$250
TOTAL COST	= \$2,903,000

DESIGNED BY	M. RAOOF	DATE	03-2016
DRAWN BY	P. TAM	DATE	03-2016
CHECKED BY	S. CHOU	DATE	03-2016
APPROVED	X	DATE	X

PLANNING STUDY	
ARROW ROUTE UC (WIDEN)	
BRIDGE NO. 54-0921R/L	UNIT: 2216
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184

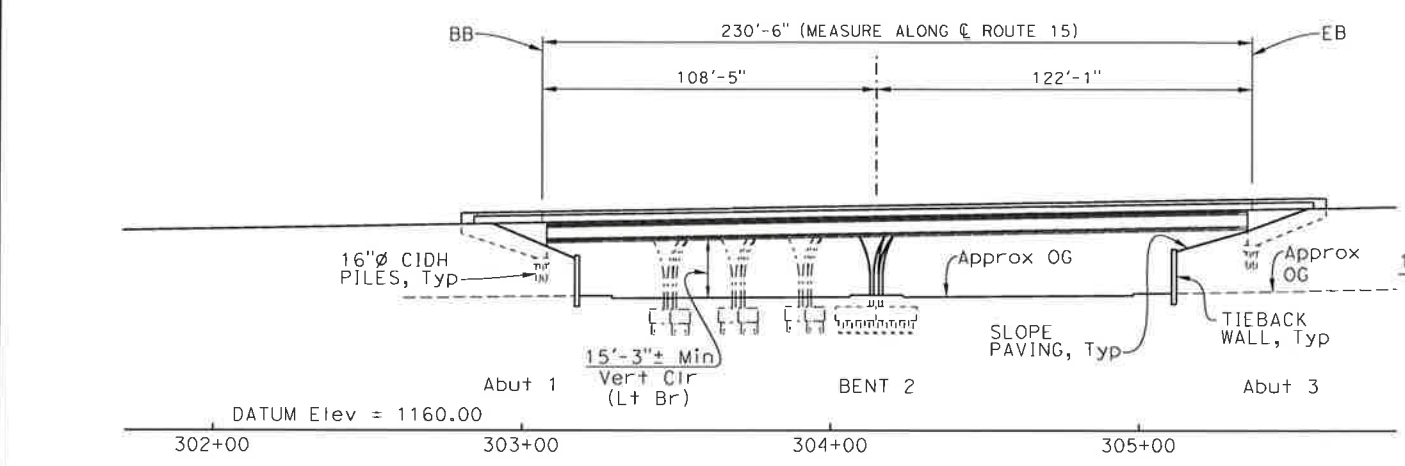
X *Robert Spall*  
 DESIGN OVERSIGHT  
 X  
 SIGN OFF DATE: 2/21/17



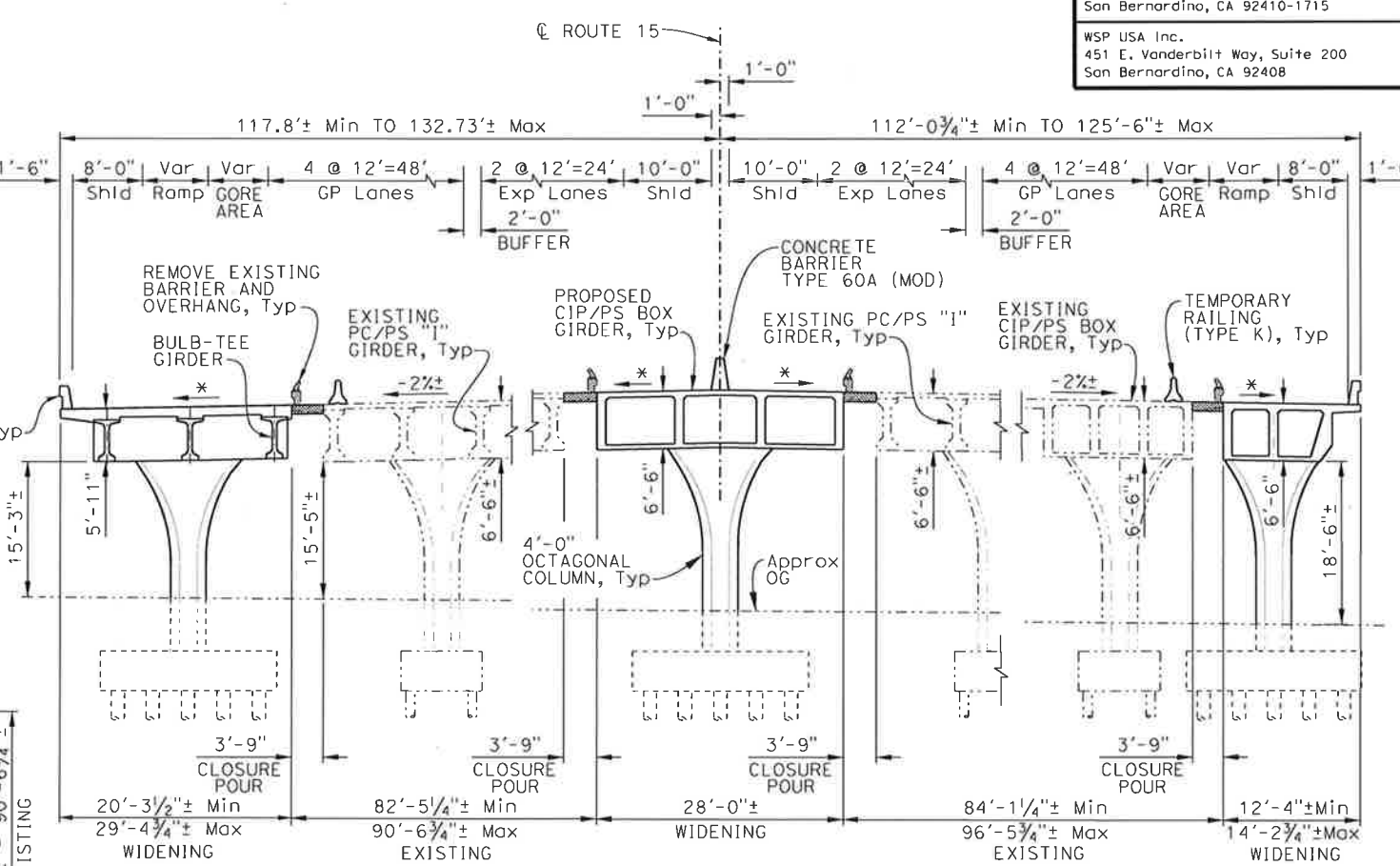
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	SBd	15	5.28

SBCTA  
1170 W. 3rd Street, 2nd Floor  
San Bernardino, CA 92410-1715

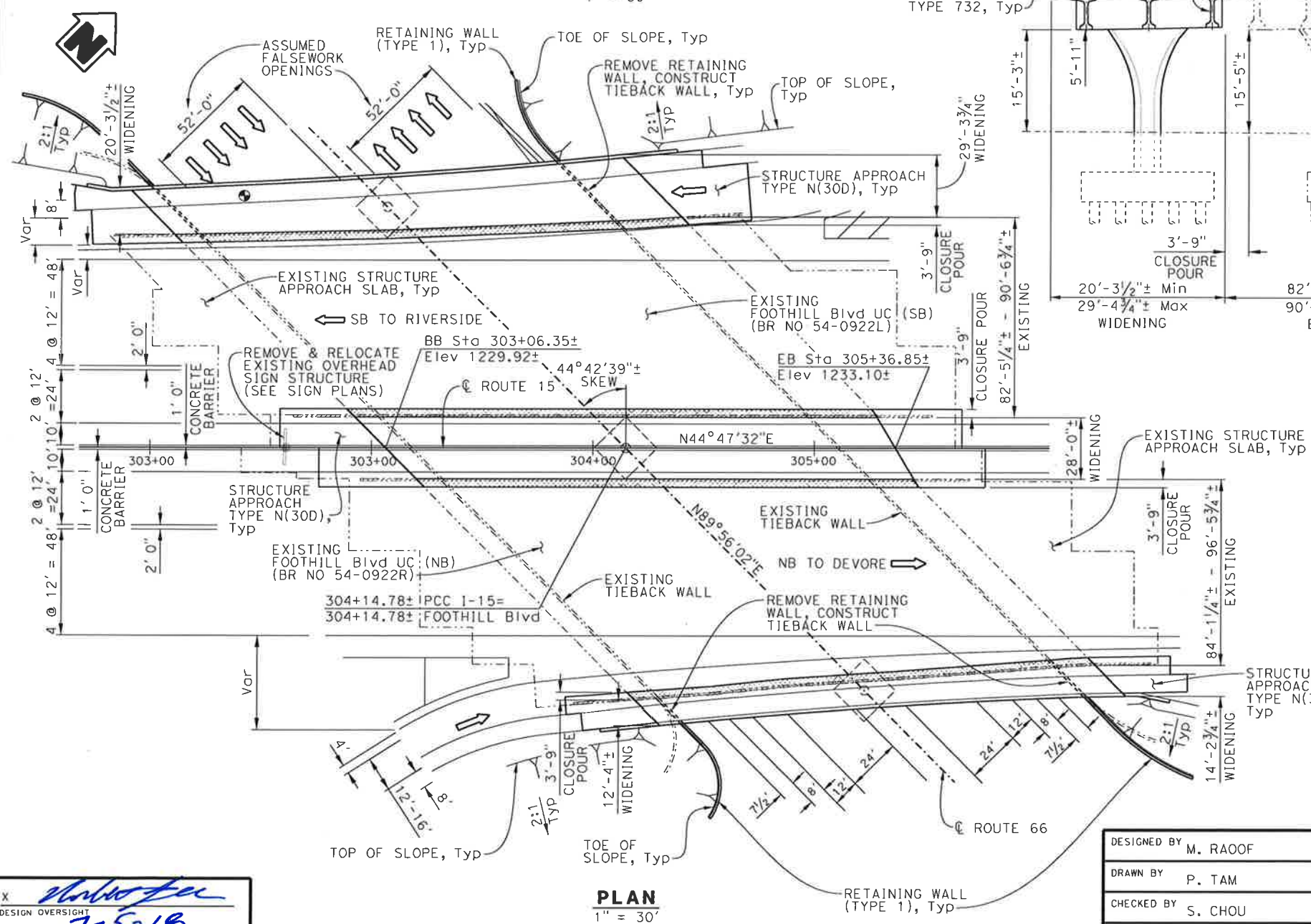
WSP USA Inc.  
451 E. Vanderbilt Way, Suite 200  
San Bernardino, CA 92408



**DEVELOPED ELEVATION**  
1" = 30'



**TYPICAL SECTION**  
1" = 10'



**PLAN**  
1" = 30'

Note: Traffic will pass through construction. (15'-0" min vert clearance required) under falsework.

	Existing	Widening	Required
Minimum Vertical Clearance	15'-5"	15'-3"	15'-0"

- LEGEND:**
- Indicates bridge removal
  - Indicates closure pour
  - Indicates existing bridge
  - Indicates bridge widening
  - Indicates point of minimum vertical clearance
  - Indicates direction of traffic

DATE OF ESTIMATE \* 06-22-2018

BRIDGE REMOVAL = 3906 Sq Ft

STRUCTURE DEPTH = 5'-11" & 6'-6"

LENGTH = 230'-6"

WIDTH = 66.00'

AREA = 15,213 Sq Ft

COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = \$361

TOTAL COST = \$5,495,000

\* ESTIMATE IS BASED ON 2016 COST INDEX

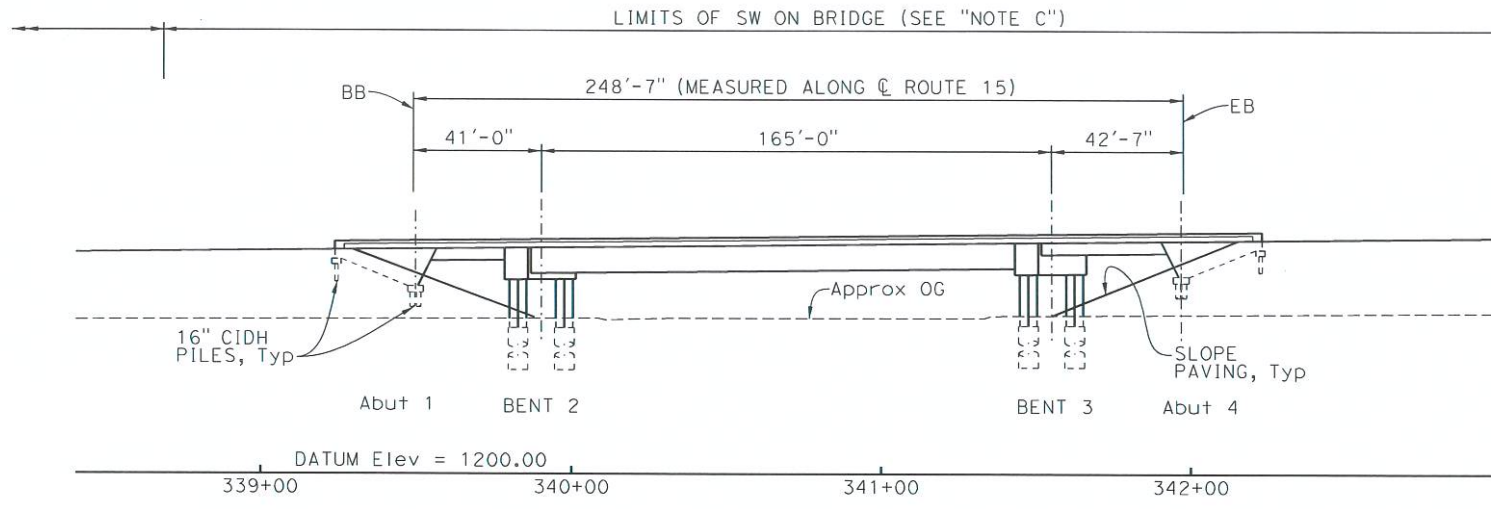
X *[Signature]*  
DESIGN OVERSIGHT  
X  
SIGN OFF DATE 7-5-18

DESIGNED BY	M. RAOOF	DATE	03-2016
DRAWN BY	P. TAM	DATE	03-2016
CHECKED BY	S. CHOU	DATE	03-2016
APPROVED	X	DATE	X

X PROJECT ENGINEER	<b>PLANNING STUDY</b>	
	<b>ROUTE 15/66 SEPARATION (WIDEN)</b>	
BRIDGE NO. 54-0922R/L	UNIT: 2216	
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184	



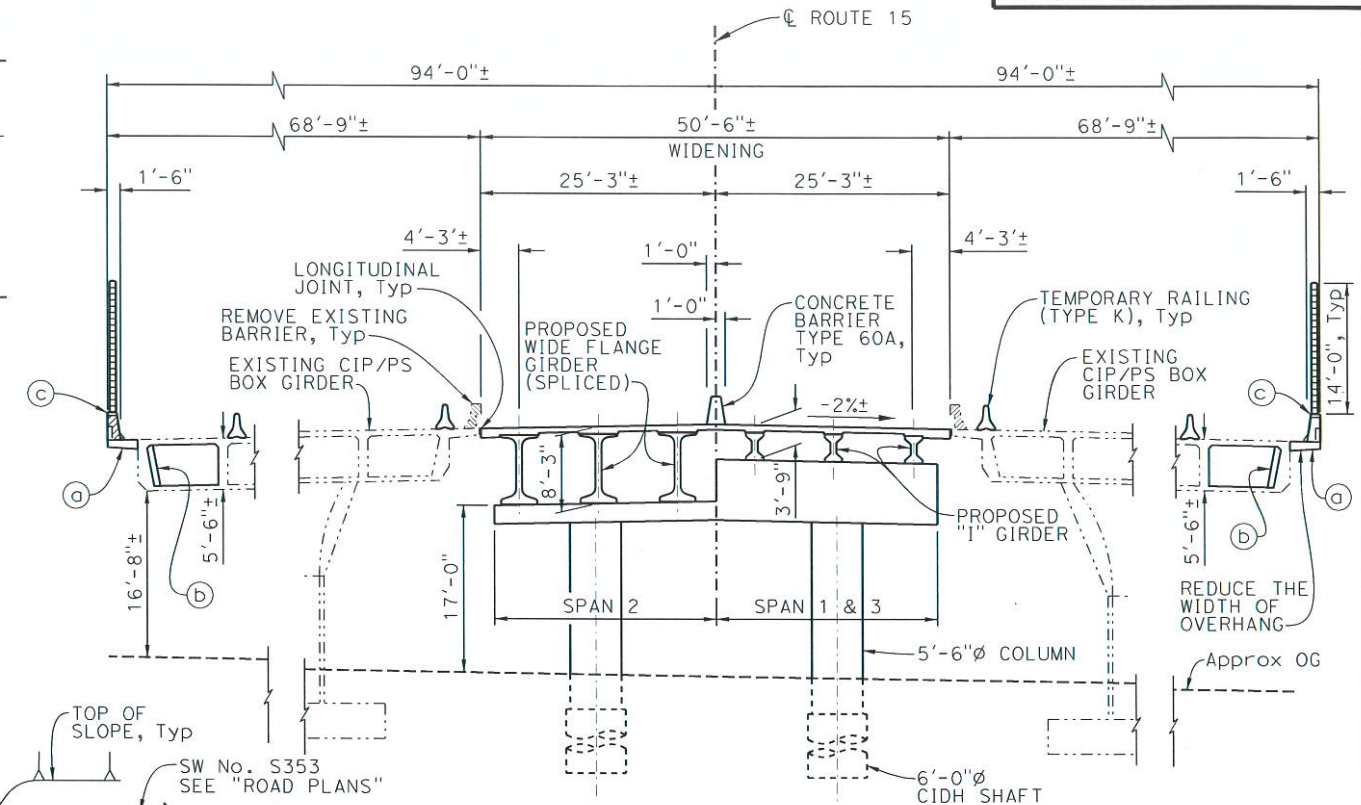
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, SBd	15	5.97
SBCTA 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715			
WSP USA Inc. 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			



**DEVELOPED ELEVATION**  
1" = 30'

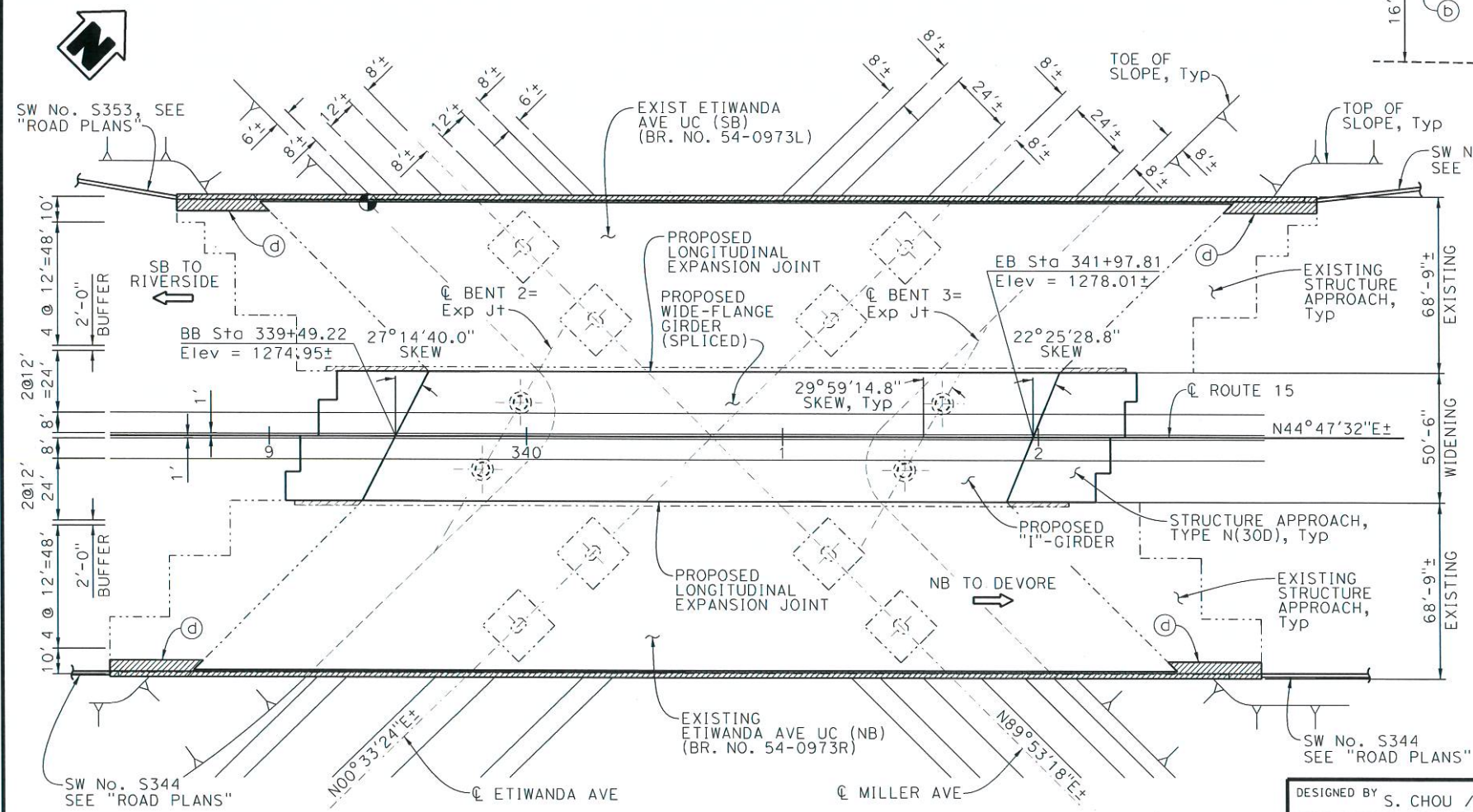
NOTE: EXISTING BRIDGE AND PROPOSED SOUND WALL NOT SHOWN FOR CLARITY

	Existing	Widening	Required
Minimum Vertical Clearance	16'-8"	17'-0"	15'-0"



**TYPICAL SECTION**  
1" = 10'

- NOTES:
- (a) Replace the overhang
  - (b) Strengthen exist exterior girder and bent cap
  - (c) Remove exist Type 25 Barrier and replace with Concrete Barrier Type 736 (Mod) with Sound wall
  - (d) Remove exist approach slab and replace it with strengthened slab. Also, replace barrier with Conc Barrier Type 736 (mod) with Sound wall



**PLAN**  
1" = 30'

- LEGEND:
- Indicates Bridge Removal (Portion)
  - Indicates Existing Bridge
  - Indicates Bridge Widening
  - Indicates Point Of Minimum Vertical Clearance
  - Indicates Direction Of Traffic

DATE OF ESTIMATE	=	02-15-2018
BRIDGE REMOVAL	=	2004 SF
STRUCTURE DEPTH	=	8'-3" & 3'-9"
LENGTH	=	248'-7"
WIDTH	=	50'-6"
AREA	=	12,553 Sq Ft
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$331
TOTAL COST	=	\$4,153,000

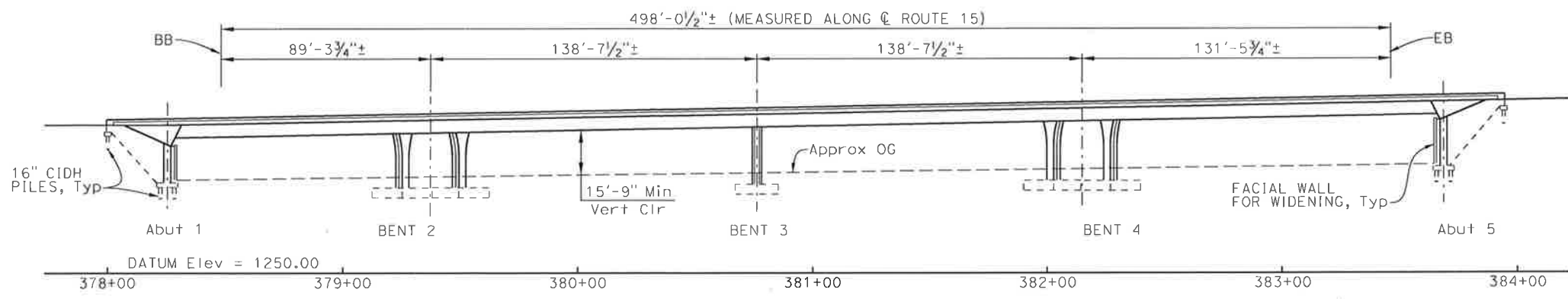
X *Stobegre*  
DESIGN OVERSIGHT  
X 4-17-18  
SIGN OFF DATE

DESIGNED BY	S. CHOU / M. RAOOF	DATE	02/15/18
DRAWN BY	P. TAM	DATE	02/15/18
CHECKED BY	J. LIAO / L. DODD	DATE	02/15/18
APPROVED	X	DATE	X

<b>PLANNING STUDY</b>	
<b>ETIWANDA AVE UC (WIDEN)</b>	
BRIDGE NO. 54-0973	UNIT: 2216
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, Sbd	15	6.71
SBCTA 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715			
WSP   PARSONS BRINCKERHOFF 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			

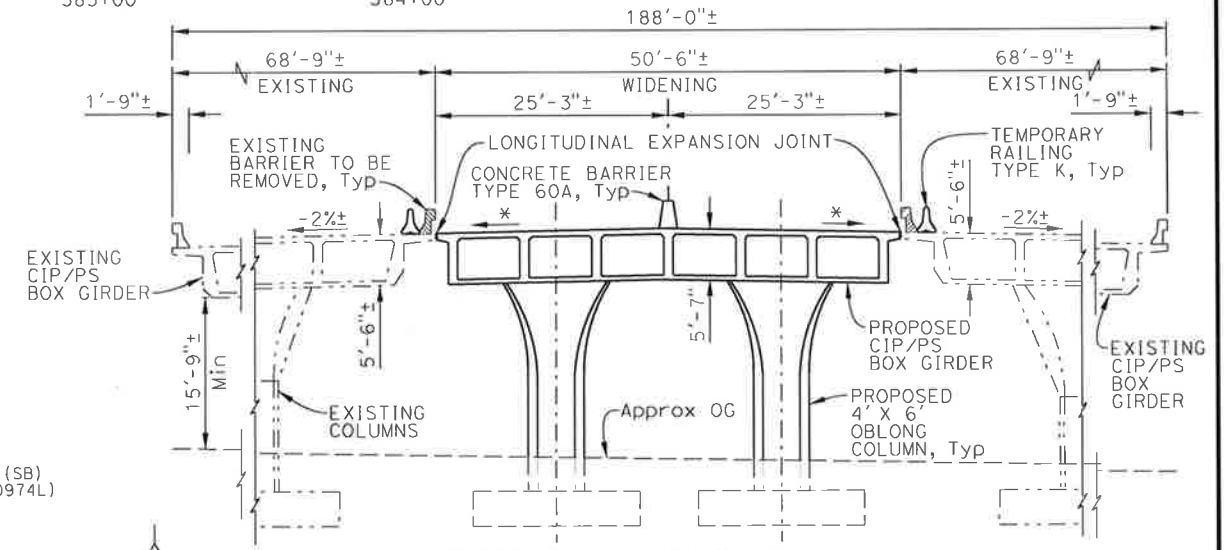


**DEVELOPED ELEVATION**  
1" = 30'

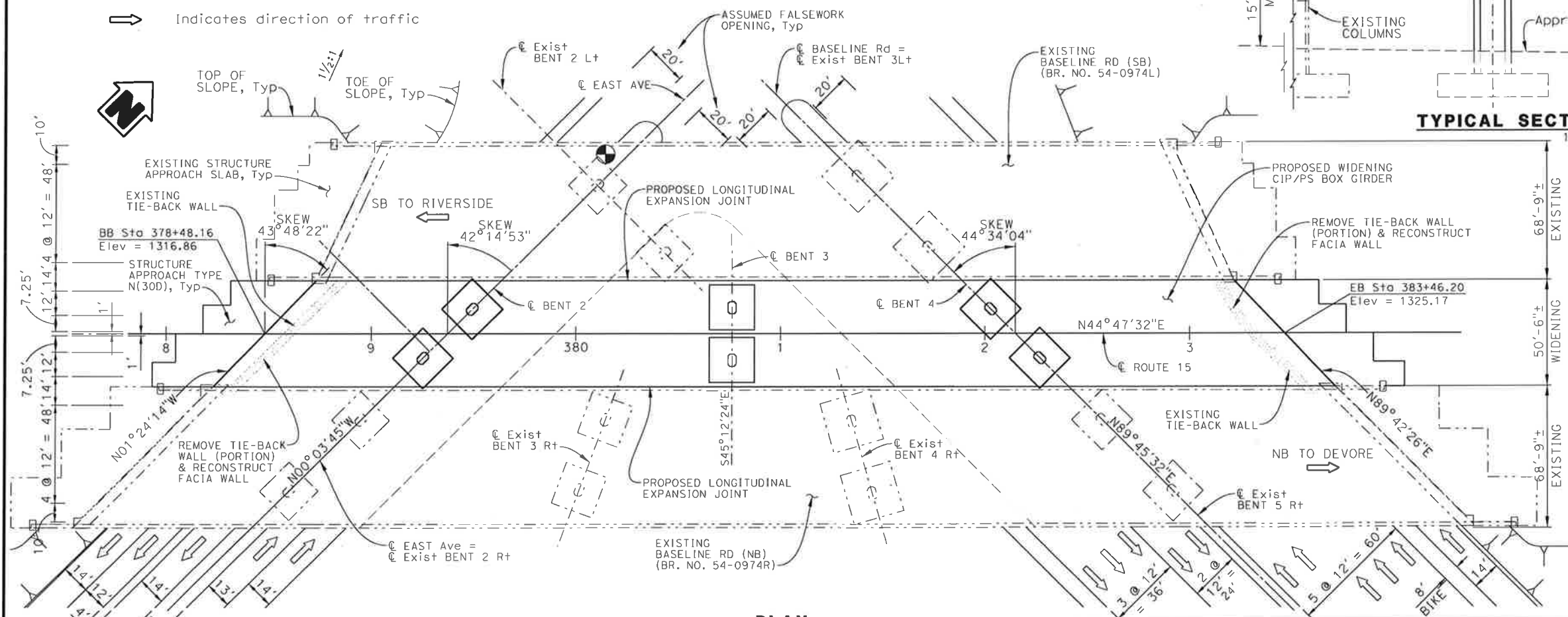
- LEGEND:**
- Indicates bridge removal
  - Indicates closure pour
  - Indicates existing bridge
  - Indicates bridge widening
  - Indicates point of minimum vertical clearance
  - Indicates direction of traffic

NOTE: Traffic will pass through construction (15'-0" min vertical clearance required under falsework).

	Existing	Widening	Required
Minimum Vertical Clearance	15'-9"	17'-10"	15'-0"



**TYPICAL SECTION (BENT 2 & 4)**  
1" = 10'



**PLAN**  
1" = 30'

DATE OF ESTIMATE	07-19-2016
BRIDGE REMOVAL	= 4,869 Sq Ft
STRUCTURE DEPTH	= 5'-7"
LENGTH	= 498.1'
WIDTH	= 50.5'
AREA	= 25,154 Sq Ft
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$238
TOTAL COST	= \$5,986,000

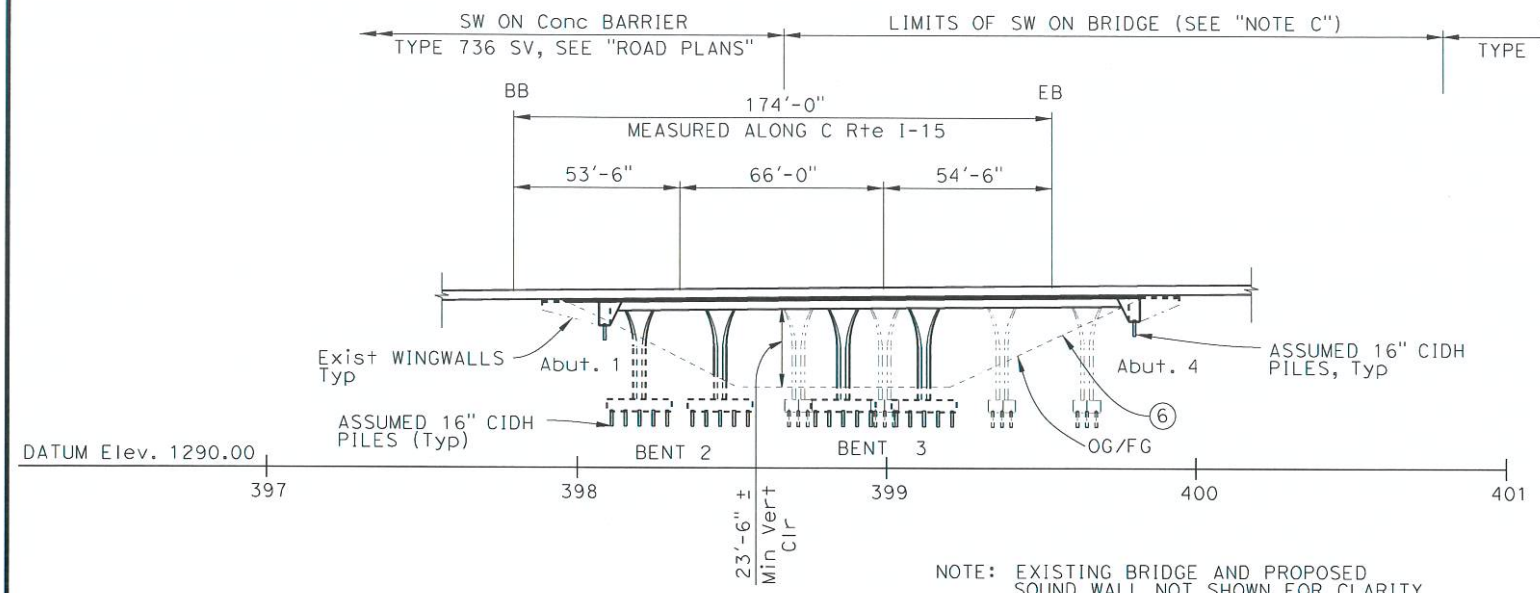
DESIGN OVERSIGHT  
 X *[Signature]*  
 X 10-24-17  
 SIGN OFF DATE

DESIGNED BY	M. RAOOF	DATE	06/2016
DRAWN BY	P. TAM	DATE	06/2016
CHECKED BY	S. CHOU	DATE	06/2016
APPROVED	X	DATE	06/2016

<b>PLANNING STUDY</b>	
<b>BASE LINE UC (WIDEN)</b>	
BRIDGE NO. 54-0974	UNIT: 2216
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184



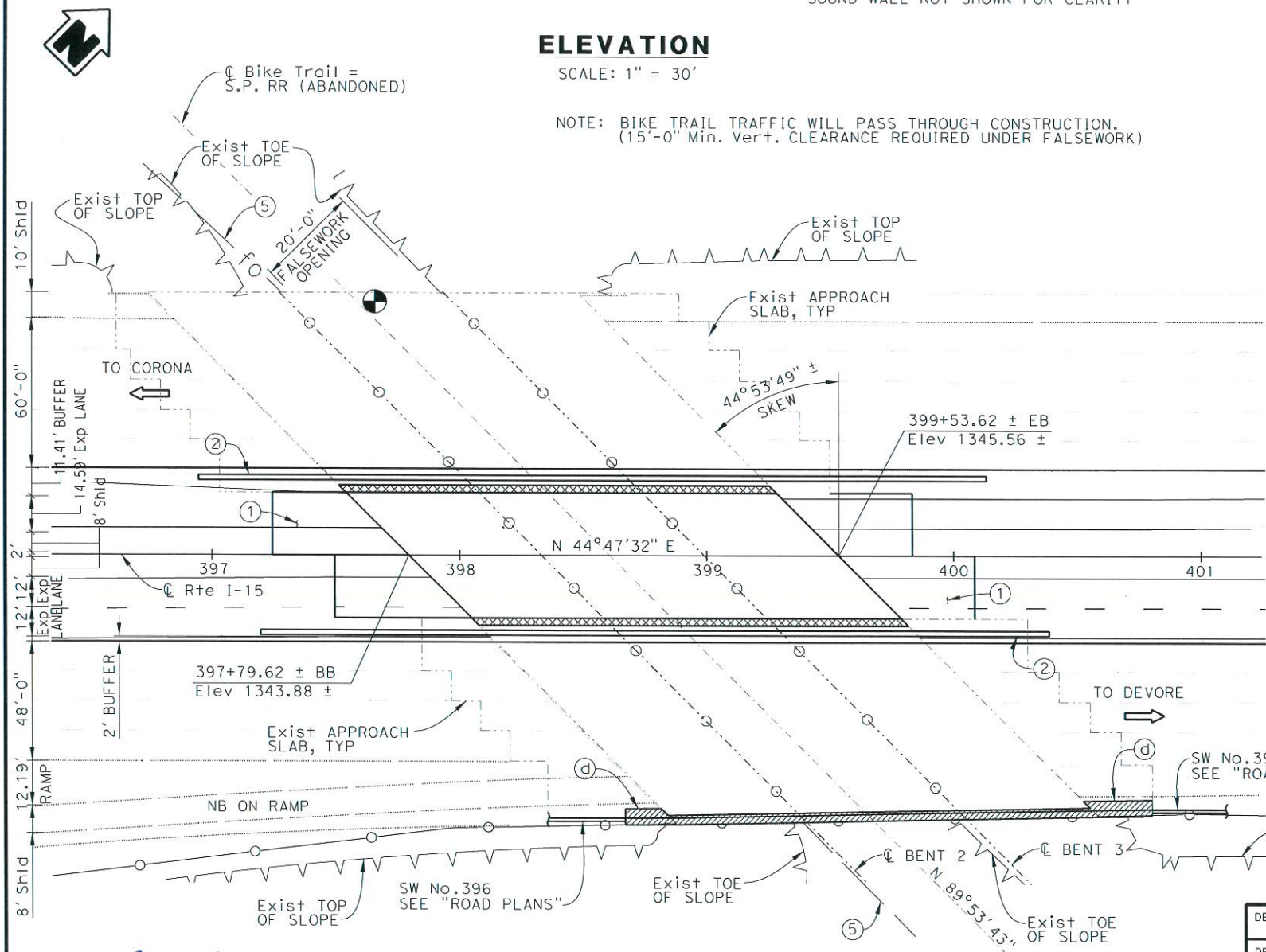
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, Sbd	15	7.08/12.6
SBCTA 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715			
WSP/PARSONS BRINCKERHOFF 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			



**ELEVATION**

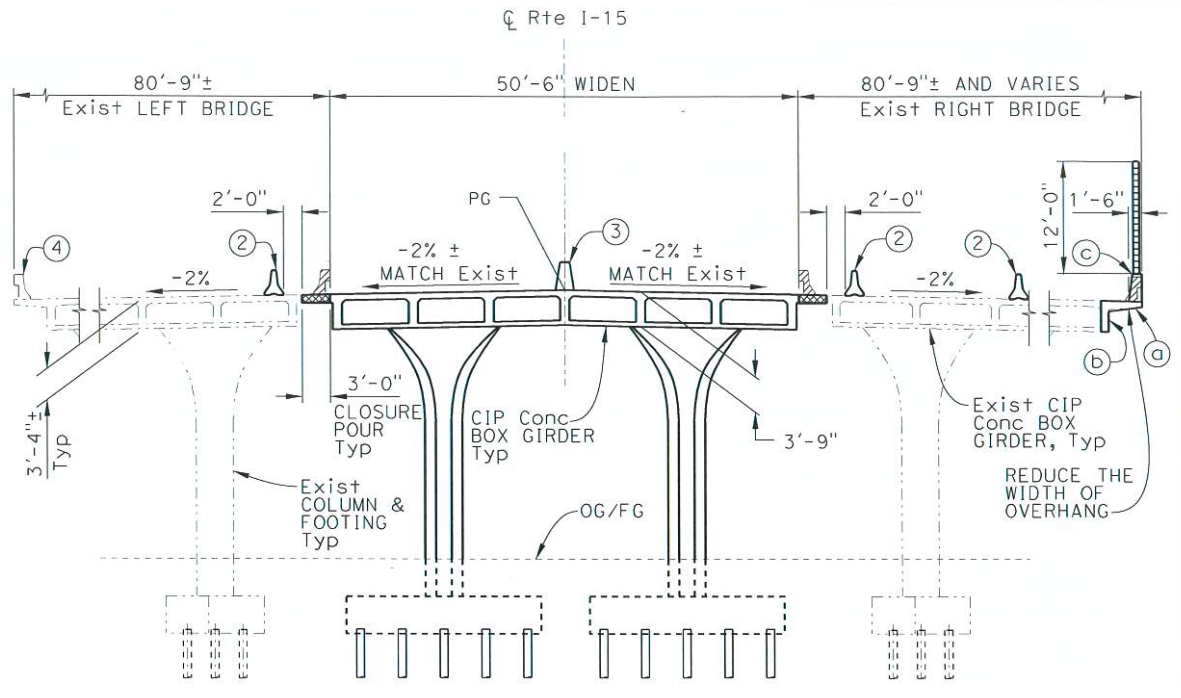
SCALE: 1" = 30'

NOTE: BIKE TRAIL TRAFFIC WILL PASS THROUGH CONSTRUCTION. (15'-0" Min. Vert. CLEARANCE REQUIRED UNDER FALSEWORK)



**PLAN**

SCALE: 1" = 30'



**TYPICAL SECTION**

SCALE: 1" = 10'

**LEGEND:**

- ① Structural Approach Type N(300)
- ② Temporary Railing (Type K), see "ROAD PLANS"
- ③ Concrete Barrier (Type 60A)
- ④ Exist Concrete Barrier (Type 25)
- ⑤ Exist Fiber Optic Utility (Protect In Place)
- ⑥ Exist Slope Paving
- Indicates Bridge Removal (Portion)
- Indicates Closure Pour
- Indicates Existing Bridge
- Indicates Bridge Widening
- Indicates Point Of Minimum Vertical Clearance
- Indicates Direction Of Traffic

**NOTES:**

- (a) Replace the overhang
- (b) Strengthen exist exterior girder and bent cap
- (c) Remove exist Type 25 Barrier and replace with Concrete Barrier Type 736 (Mod) with Sound wall
- (d) Remove exist approach slab and replace it with strengthened slab. Also, replace barrier with Conc Barrier Type 736 (mod) with Sound wall

DATE OF ESTIMATE	02-15-2018
BRIDGE REMOVAL	= 1580 SF
STRUCTURE DEPTH	= 3'-9"
LENGTH	= 174'-0"
WIDTH	= 50'-6"
AREA	= 8787 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$358
TOTAL COST	= \$3,145,000

DESIGN OVERSIGHT  
4-17-18

DESIGNED BY	S. MICHALSKI / M. RAOOF	DATE	02/15/18
DRAWN BY	J. SALDANA / P. TAM	DATE	02/15/18
CHECKED BY	B. MIELKE / L. DODD	DATE	02/15/18
APPROVED		DATE	

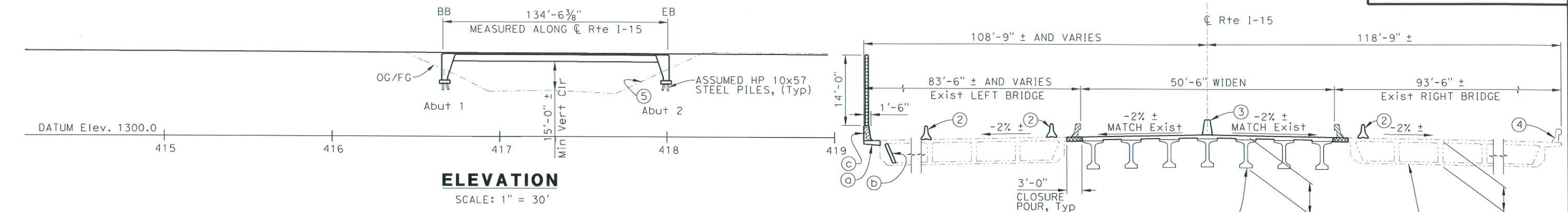
S. MICHALSKI  
PROJECT ENGINEER

<b>PLANNING STUDY</b>	
<b>ETIWANDA OH (WIDEN)</b>	
BRIDGE No. 54-0963	UNIT: 8
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, SBd	15	7.44/12.6
SBCTA 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715			
WSP USA Inc. 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			

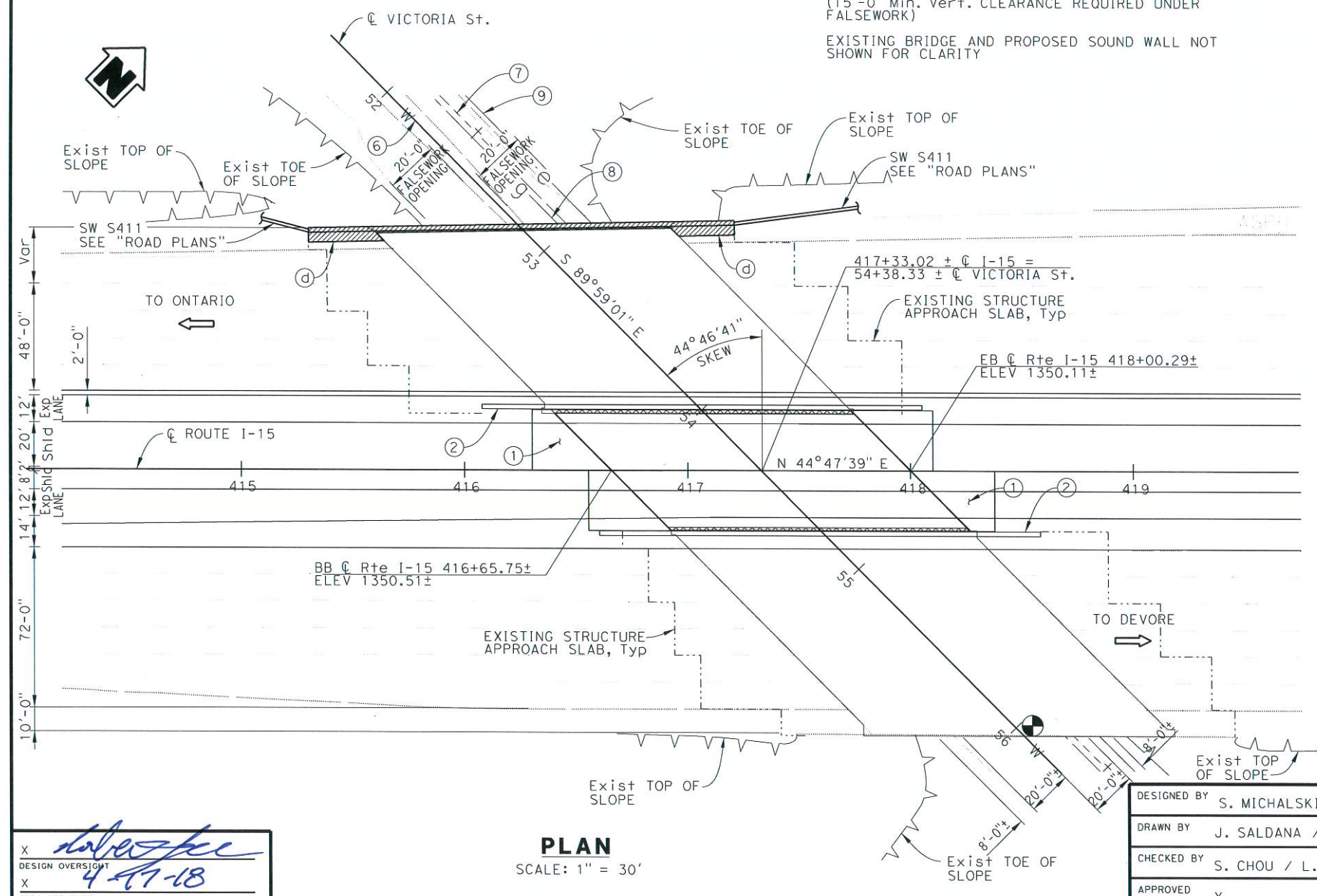
SW ON Conc BARRIER TYPE 736 SV, SEE "ROAD PLANS"      LIMITS OF SW ON BRIDGE (SEE "NOTE C")      SW ON Conc BARRIER TYPE 736 SV, SEE "ROAD PLANS"



**ELEVATION**  
SCALE: 1" = 30'

**TYPICAL SECTION**  
SCALE: 1" = 10'

NOTES: TRAFFIC WILL PASS THROUGH CONSTRUCTION. (15'-0" Min. Vert. CLEARANCE REQUIRED UNDER FALSEWORK)  
EXISTING BRIDGE AND PROPOSED SOUND WALL NOT SHOWN FOR CLARITY



**PLAN**  
SCALE: 1" = 30'

**LEGEND:**

- ① Structure Approach Type N (30D)
- ② Temporary Railing (Type K), see "ROAD PLANS"
- ③ Concrete Barrier (Type 60A)
- ④ Exist Concrete Barrier (Type 25)
- ⑤ Exist Slope Paving
- ⑥ Exist Water Utility (Protect in Place)
- ⑦ Exist Telephone Utility (Protect in Place)
- ⑧ Exist Gas Utility (Protect in Place)
- ⑨ Exist Electrical Utility (Protect in Place)
- [Hatched Box] Indicates Bridge Removal
- [Dotted Box] Indicates Closure Pour
- [Dashed Line] Indicates Existing Bridge
- [Solid Line] Indicates Bridge Widening
- [Circle with Dot] Indicates Point Of Minimum Vertical Clearance
- [Arrow] Indicates Direction Of Traffic

**NOTES:**

- (a) Replace the overhang
- (b) Strengthen exist exterior girder
- (c) Remove exist Type 25 Barrier and replace with Concrete Barrier Type 736 (Mod) with Sound wall
- (d) Remove exist approach slab and replace it with strengthened slab. Also, replace barrier with Conc Barrier Type 736 (mod) with Sound wall

DATE OF ESTIMATE	02-15-2018
BRIDGE REMOVAL	= 1246 SF
STRUCTURE DEPTH	= 6'-4 3/8"
LENGTH	= 134'-6 3/8"
WIDTH	= 50'-6"
AREA	= 6,795 Sq Ft
COST/Sq Ft INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$383
TOTAL COST	= \$2,602,000

DESIGN OVERSIGHT  
SIGN OFF DATE  
4-17-18

DESIGNED BY	S. MICHALSKI / M. RAOOF	DATE	02/15/18
DRAWN BY	J. SALDANA / P. TAM	DATE	02/15/18
CHECKED BY	S. CHOU / L. DODD	DATE	02/15/18
APPROVED	X	DATE	X

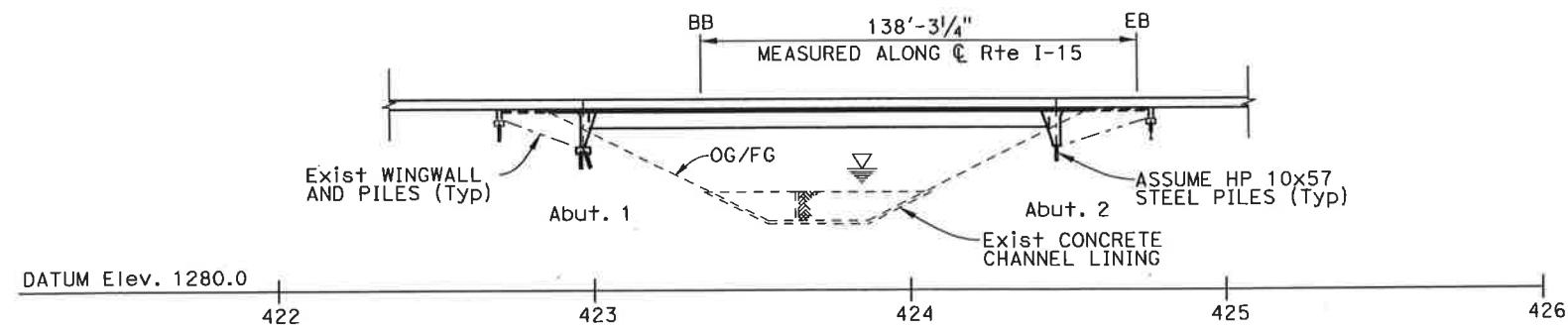
<b>PLANNING STUDY</b>	
<b>VICTORIA STREET UC (WIDEN)</b>	
BRIDGE NO. 54-0965	UNIT: 2216
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184



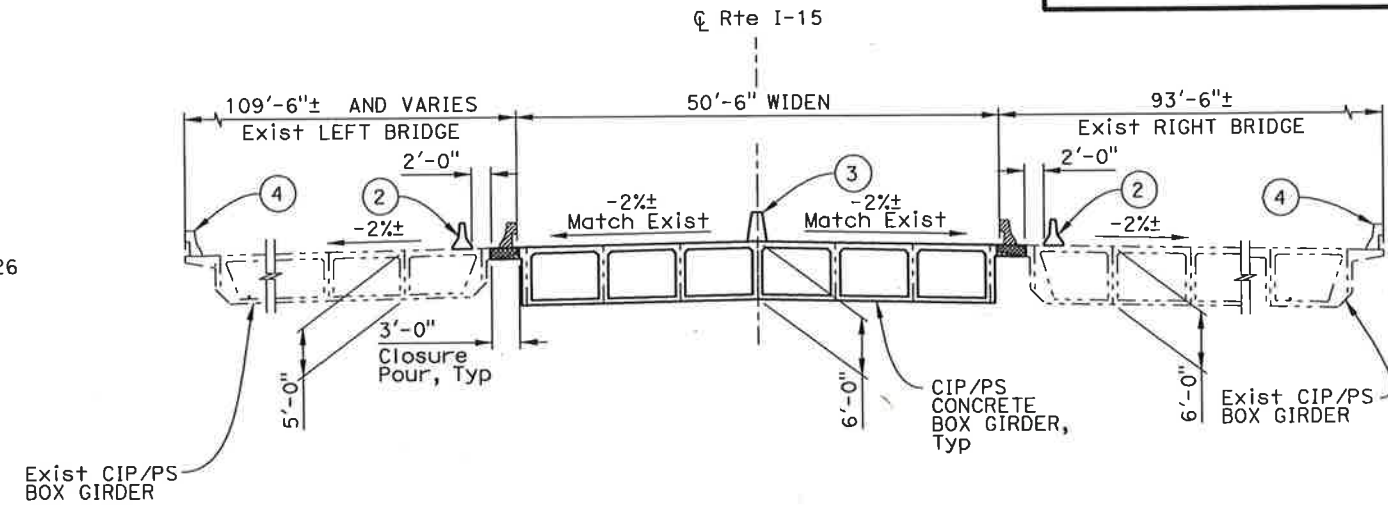
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, SBd	15	7.56

SANBAG  
1170 W. 3rd Street, 2nd Floor  
San Bernardino, CA 92410-1715

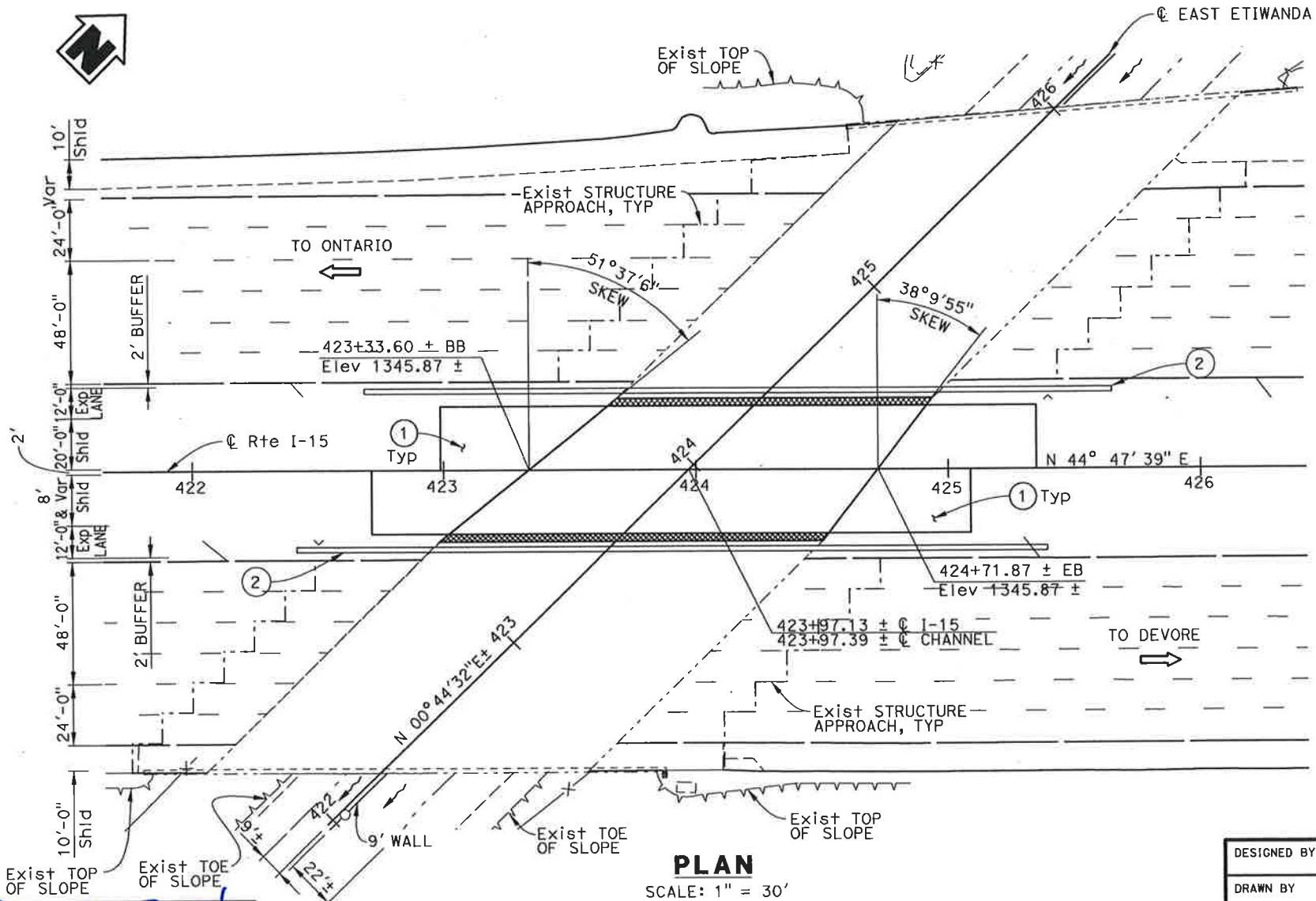
WSP/PARSONS BRINCKERHOFF  
451 E. Vanderblit Way, Suite 200  
San Bernardino, CA 92408



**ELEVATION**  
SCALE: 1" = 30'



**TYPICAL SECTION**  
SCALE: 1" = 10'



**PLAN**  
SCALE: 1" = 30'

**LEGEND:**

- ① Structure Approach Type N (30D)
- ② Temporary Railing (Type K), see "ROAD PLANS"
- ③ Concrete Barrier (Type 60A)
- ④ Exist Concrete Barrier (Type 25)
- Indicates Bridge Removal (Portion)
- Indicates Closure Pour
- Indicates Existing Bridge
- Indicates Bridge Widening
- Indicates Direction of Traffic
- Indicates 100-year Water Surface Elevation (Elev = 1324.0)

DATE OF ESTIMATE	1-11-16
BRIDGE REMOVAL	= 727 Sq Ft
STRUCTURE DEPTH	= 6'-0"
LENGTH (AVE)	= 138' - 3/4"
WIDTH	= 50'-6"
AREA	= 6,983 Sq Ft
COST/Sq Ft INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$248
TOTAL COST	= \$1,733,000

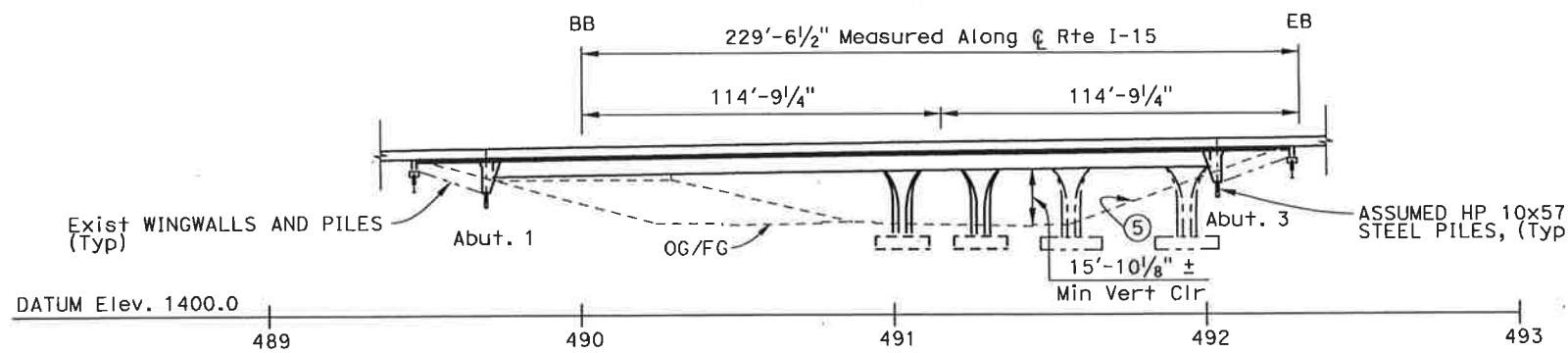
DESIGNED BY	Z. DANIEL	DATE	12/2015
DRAWN BY	A. GENZ	DATE	12/2015
CHECKED BY	B. MIELKE	DATE	12/2015
APPROVED		DATE	

PLANNING STUDY	
<b>EAST ETIWANDA CREEK (WIDEN)</b>	
BRIDGE NO. 54-0964	UNIT: 8
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184

*Daniel Spall*  
DESIGN OVERSIGHT  
2/11/16



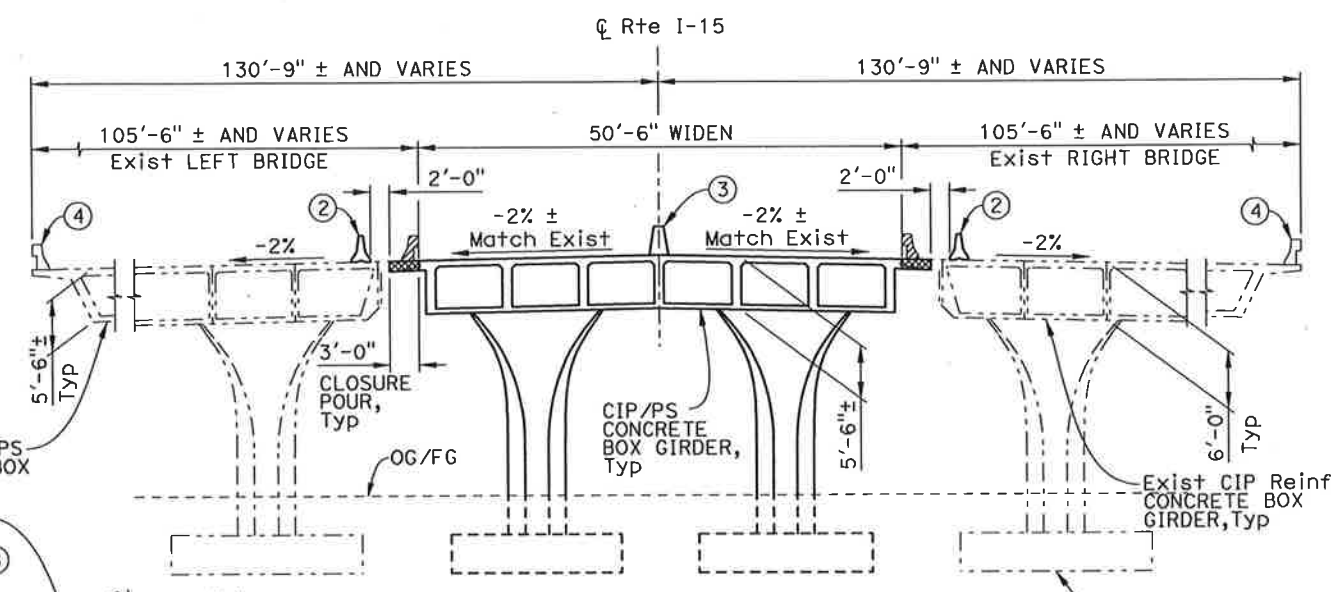
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv, SBd	15	8.83/12.6
SANBAG 1170 W. 3rd Street, 2nd Floor San Bernardino, CA 92410-1715 WSP/PARSONS BRINCKERHOFF 451 E. Vanderbilt Way, Suite 200 San Bernardino, CA 92408			



**ELEVATION**

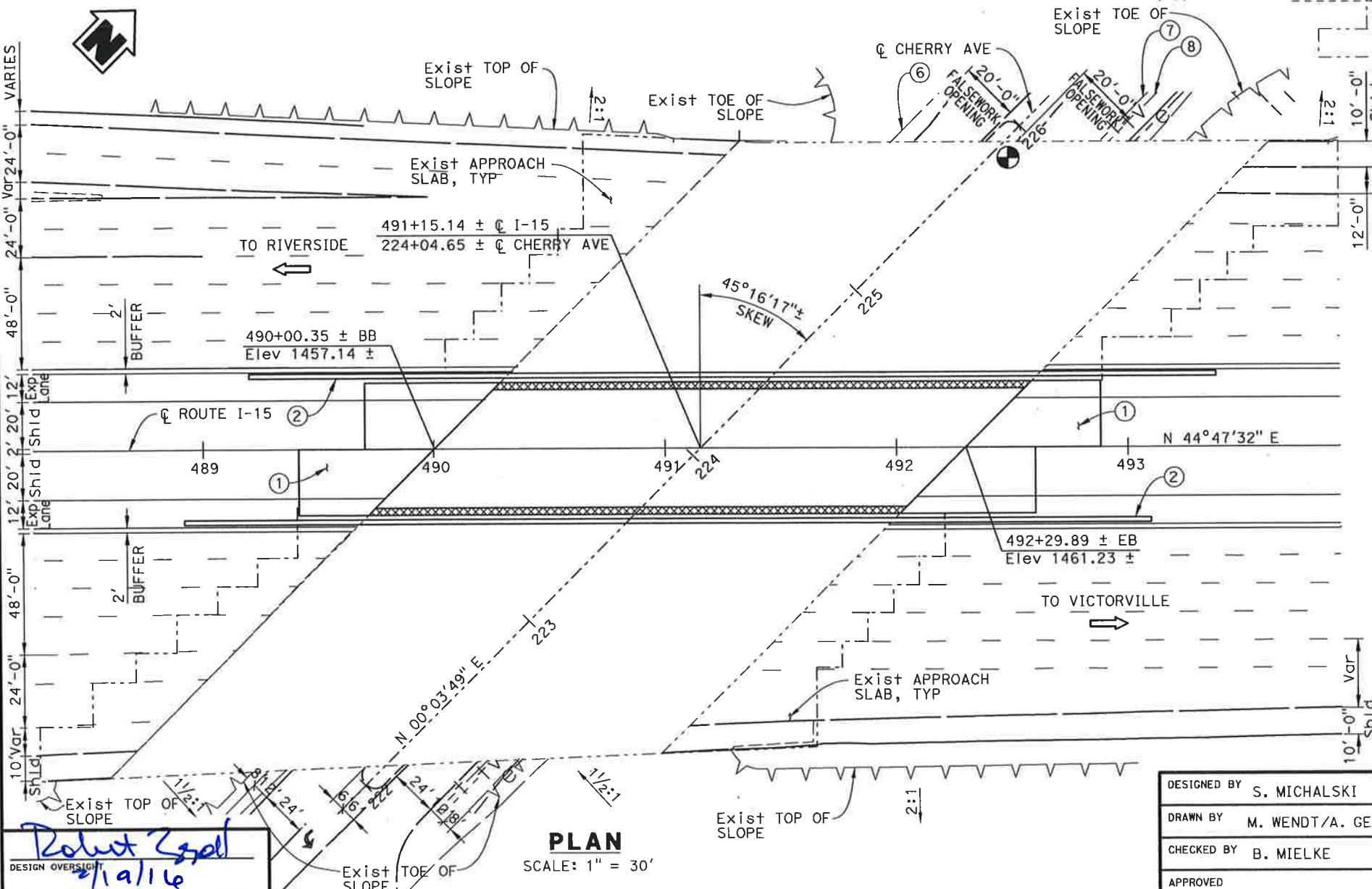
SCALE: 1" = 30'

NOTE: TRAFFIC WILL PASS THROUGH CONSTRUCTION.  
 (15'-0" Min. Vert. CLEARANCE REQUIRED UNDER FALSEWORK)



**TYPICAL SECTION**

SCALE: 1" = 10'



**PLAN**

SCALE: 1" = 30'

LEGEND:

- ① Structure Approach Type N (300)
- ② Temporary Railing (Type K), see "ROAD PLANS"
- ③ Concrete Barrier (Type 60A)
- ④ Exist Concrete Barrier (Type 25)
- ⑤ Exist Slope Paving
- ⑥ Exist Sewer Utility (Protect in Place)
- ⑦ Exist Telephone Utility (Protect in Place)
- ⑧ Exist TV Utility (Protect in Place)
- [Hatched Box] Indicates Bridge Removal (Portion)
- [Hatched Box] Indicates Closure Pour
- [Dashed Line] Indicates Existing Bridge
- [Solid Line] Indicates Bridge Widening
- [Circle with dot] Indicates Point Of Minimum Vertical Clearance
- [Arrow] Indicates Direction Of Traffic

DATE OF ESTIMATE	1-11-16
BRIDGE REMOVAL	= 1345 SF
STRUCTURE DEPTH	= 5'-6"
LENGTH	= 229'-6 1/2"
WIDTH	= 50'-6"
AREA	= 11,592 Sq Ft
COST/Sq Ft INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$233
TOTAL COST	= \$2,696,000

DESIGNED BY	S. MICHALSKI	DATE	12/2015
DRAWN BY	M. WENDT/A. GENZ	DATE	12/2015
CHECKED BY	B. MIELKE	DATE	12/2015
APPROVED		DATE	

S. MICHALSKI  
PROJECT ENGINEER

**PLANNING STUDY**

**CHERRY AVENUE UC (WIDEN)**

BRIDGE NO. 54-0970	UNIT: 8
SCALE: AS NOTED	PROJECT NUMBER & PHASE: 0812000184