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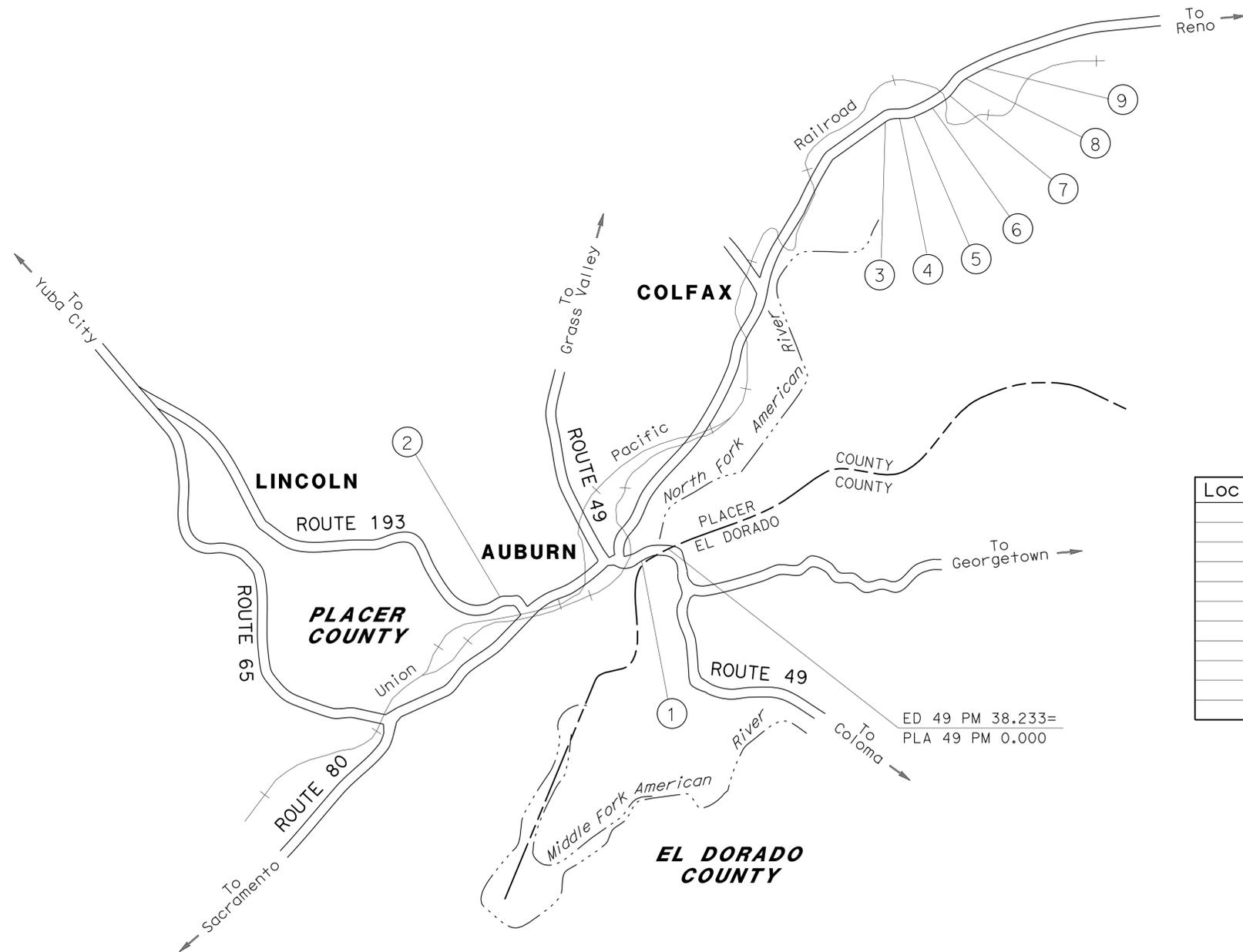
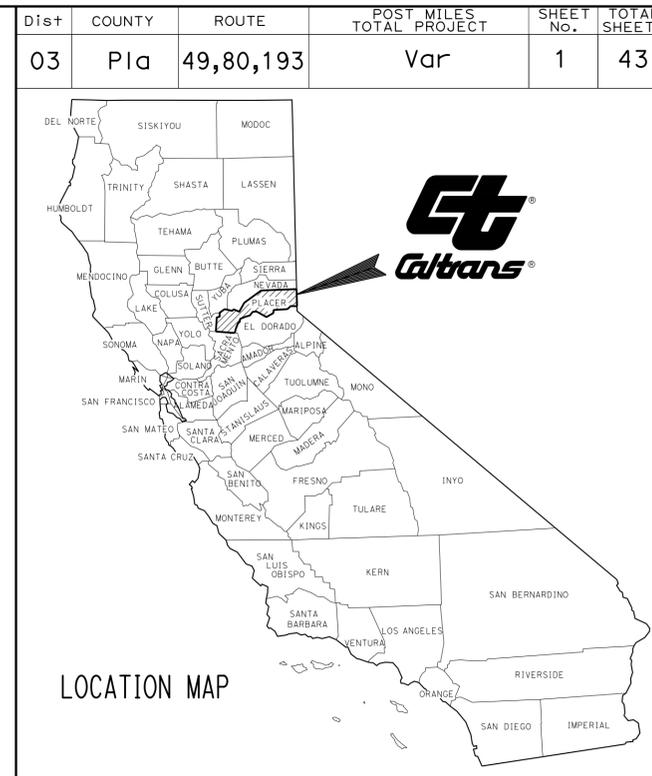
STRUCTURE PLANS

36-37	STRUCTURE PLANS LOCATION 1
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA **ACHSSTP-000C(365)E**
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN PLACER COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

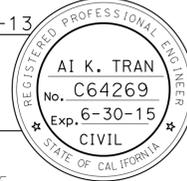


LOCATIONS OF CONSTRUCTION

Loc No. ⊕	COUNTY	ROUTE	PM	DIRECTION
1	Pla	49	0.90	-
2	Pla	193	9.40	-
3	Pla	80	44.71-44.75	WESTBOUND
4	Pla	80	44.77-44.86	WESTBOUND
5	Pla	80	45.29-45.34	WESTBOUND
6	Pla	80	45.48-45.60	WESTBOUND
7	Pla	80	45.67-45.71	WESTBOUND
8	Pla	80	46.94-46.96	WESTBOUND
8	Pla	80	46.92-46.94	EASTBOUND
9	Pla	80	49.00-49.02	WESTBOUND
9	Pla	80	48.98-49.00	EASTBOUND

PROJECT MANAGER
SAMUEL JORDAN
 DESIGN ENGINEER
STEPHEN T. WRIGHT

PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER
 DATE: 8-12-13
August 12, 2013
 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.



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

NO SCALE



NOTE:

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

LEGEND:

- MINOR HMA (4" THICKNESS UNLESS OTHERWISE SHOWN IN DETAILS))
- CONCRETE BARRIER DELINEATOR (16") UNLESS OTHERWISE NOTED

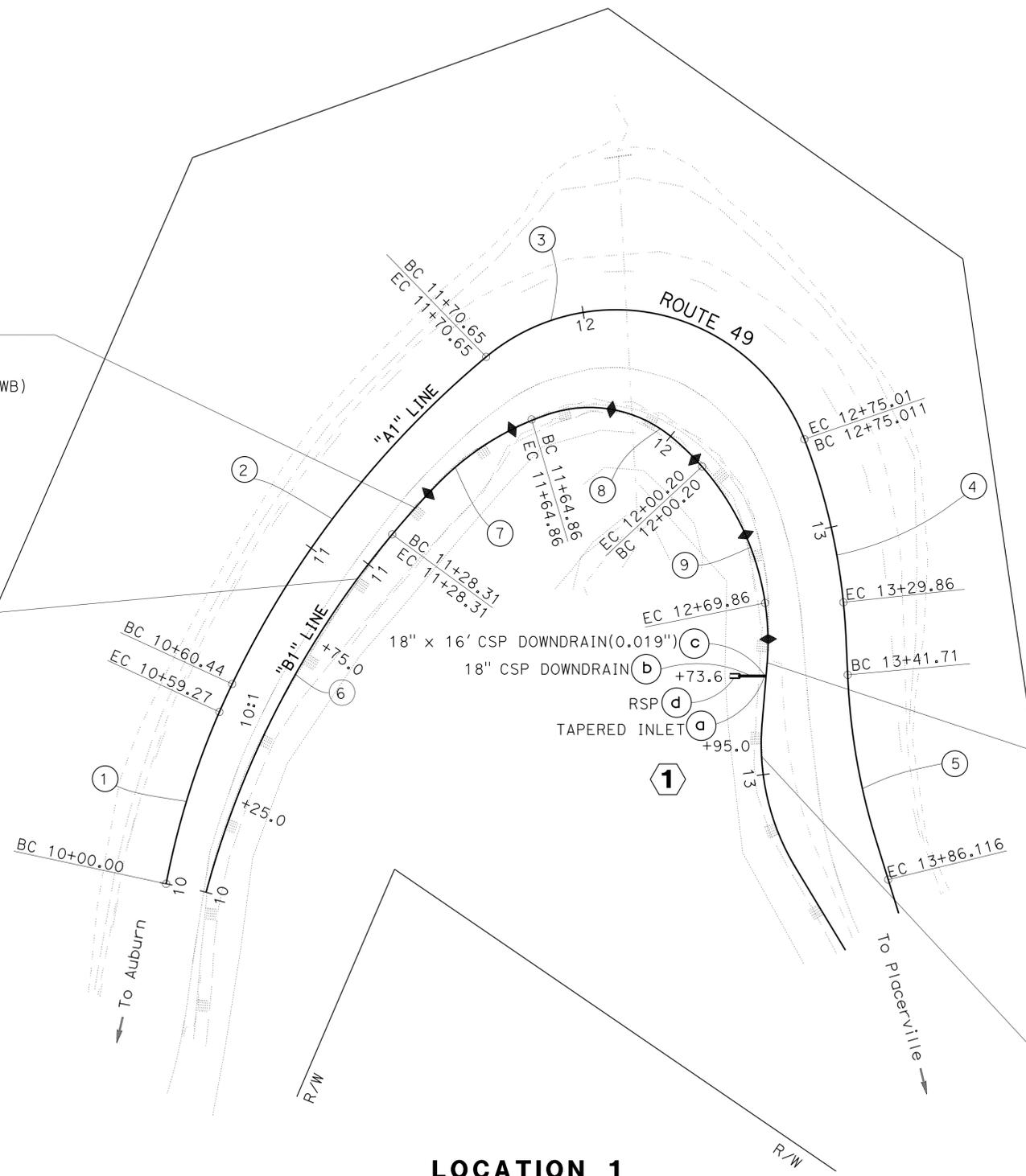
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC
 FUNCTIONAL SUPERVISOR: STEPHEN T. WRIGHT
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 DZUNG BUI
 AI K. TRAN
 REVISED BY: [blank]
 DATE REVISED: [blank]

"B1" 10+95.00
 BEGIN REMOVE MBGR
 BEGIN TRANSITION RAILING (TYPE WB)

"B1" 11+20.00
 BEGIN CONCRETE BARRIER
 (SEE STRUCTURE PLANS)
 END TRANSITION RAILING (TYPE WB)

"B1" 12+70.00
 END CONCRETE BARRIER
 (SEE STRUCTURE PLANS)
 BEGIN TRANSITION RAILING (TYPE WB)

"B1" 12+95.00
 END REMOVE MBGR
 END TRANSITION RAILING (TYPE WB)



CURVE DATA

No. ⊕	R	Δ	T	L
1	220'	15°26'6.8"	29.814'	59.267'
2	265'	23°49'39.5"	55.911'	110.206'
3	55'	108°41'34.4"	76.672'	104.347'
4	170'	18°29'18.0"	27.688'	54.865'
5	175'	14°32'0.5"	22.323'	44.407'
6	255'	28°49'12.3"	65.544'	128.312'
7	76'	27°33'11.3"	18.634'	36.548'
8	35'	57°51'17.8"	19.343'	35.342'
9	72'	55°25'41.6"	37.823'	69.653'

LOCATION 1
 PLA 49 - PM 0.9

LAYOUT
 SCALE 1"=20'

L - 1

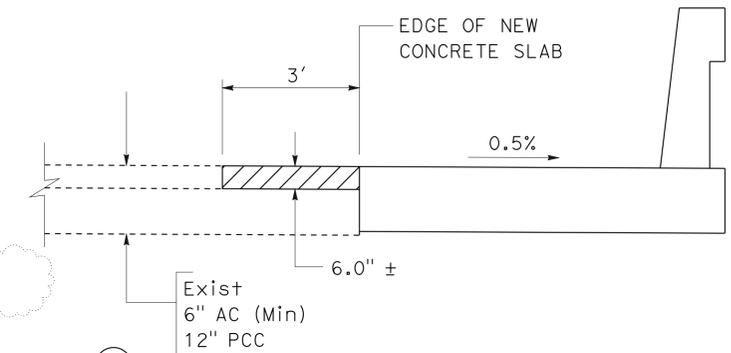
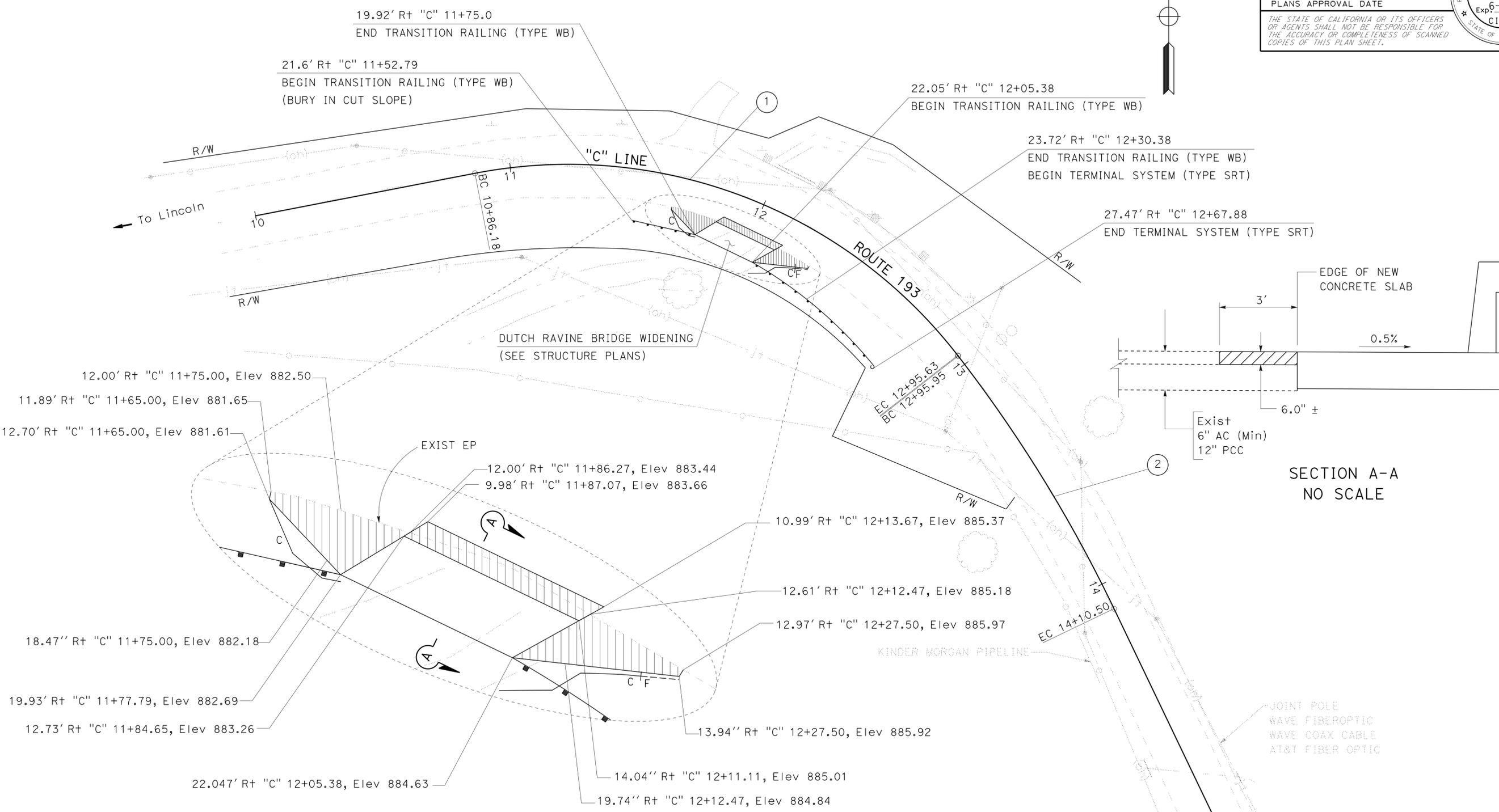
LAST REVISION DATE PLOTTED => 14-AUG-2013 TIME PLOTTED => 12:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	3	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13	DATE	
8-12-13 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.					



NOTE:

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



- 19.92' Rt "C" 11+75.0
END TRANSITION RAILING (TYPE WB)
- 21.6' Rt "C" 11+52.79
BEGIN TRANSITION RAILING (TYPE WB)
(BURY IN CUT SLOPE)
- 22.05' Rt "C" 12+05.38
BEGIN TRANSITION RAILING (TYPE WB)
- 23.72' Rt "C" 12+30.38
END TRANSITION RAILING (TYPE WB)
BEGIN TERMINAL SYSTEM (TYPE SRT)
- 27.47' Rt "C" 12+67.88
END TERMINAL SYSTEM (TYPE SRT)
- 12.00' Rt "C" 11+75.00, Elev 882.50
- 11.89' Rt "C" 11+65.00, Elev 881.65
- 12.70' Rt "C" 11+65.00, Elev 881.61
- 12.00' Rt "C" 11+86.27, Elev 883.44
- 9.98' Rt "C" 11+87.07, Elev 883.66
- 10.99' Rt "C" 12+13.67, Elev 885.37
- 12.61' Rt "C" 12+12.47, Elev 885.18
- 12.97' Rt "C" 12+27.50, Elev 885.97
- 13.94' Rt "C" 12+27.50, Elev 885.92
- 14.04' Rt "C" 12+11.11, Elev 885.01
- 19.74' Rt "C" 12+12.47, Elev 884.84
- 18.47' Rt "C" 11+75.00, Elev 882.18
- 19.93' Rt "C" 11+77.79, Elev 882.69
- 12.73' Rt "C" 11+84.65, Elev 883.26
- 22.047' Rt "C" 12+05.38, Elev 884.63

CURVE DATA

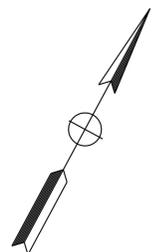
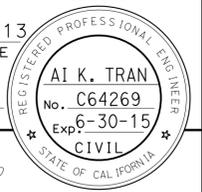
No. ±	R	Δ	T	L
1	190'	63° 09' 39"	116.80'	209.45'
2	540'	12° 09' 16"	57.49'	114.55'

LOCATION 2
PLA 193 - PM 9.4

LAYOUT
SCALE 1"=20'

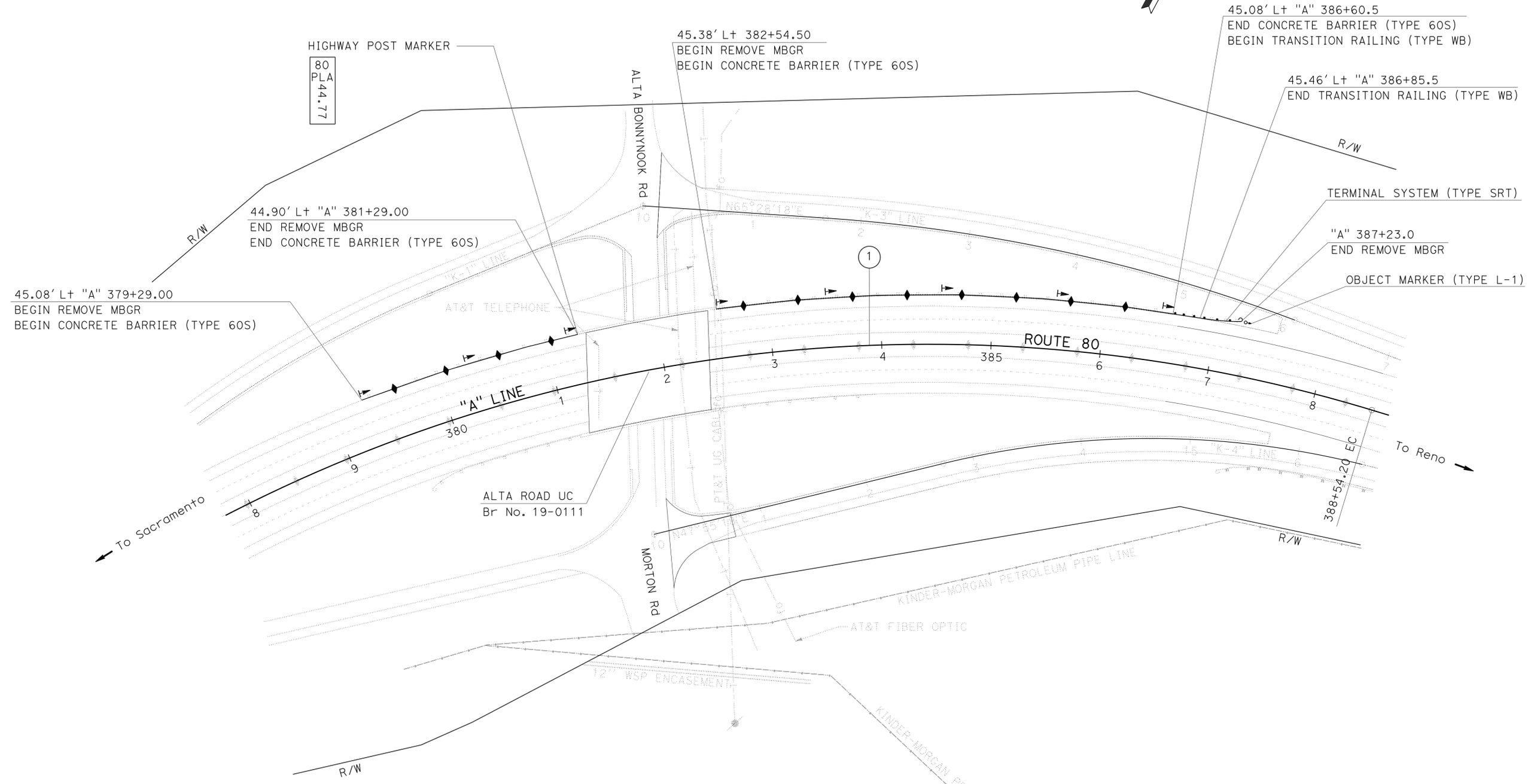
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: STEPHEN T. WRIGHT
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 DZUNG BUI
 AI K. TRAN
 REVISED BY: [Blank]
 DATE REVISED: [Blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	4	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13	DATE	
8-12-13 PLANS APPROVAL DATE					
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NOTE:

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



LOCATION 3 AND 4

PLA 80 - WB PM 44.71-44.75
 PLA 80 - WB PM 44.77-44.86

CURVE DATA

No. Ⓢ	R	Δ	T	L
1	1400'	44°09'32"	568'	1079.21'

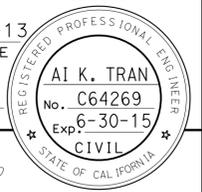
LAYOUT

SCALE 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	DZUNG BUI	REVISED BY
Caltrans	STEPHEN T. WRIGHT	CHECKED BY	AI K. TRAN	DATE REVISED



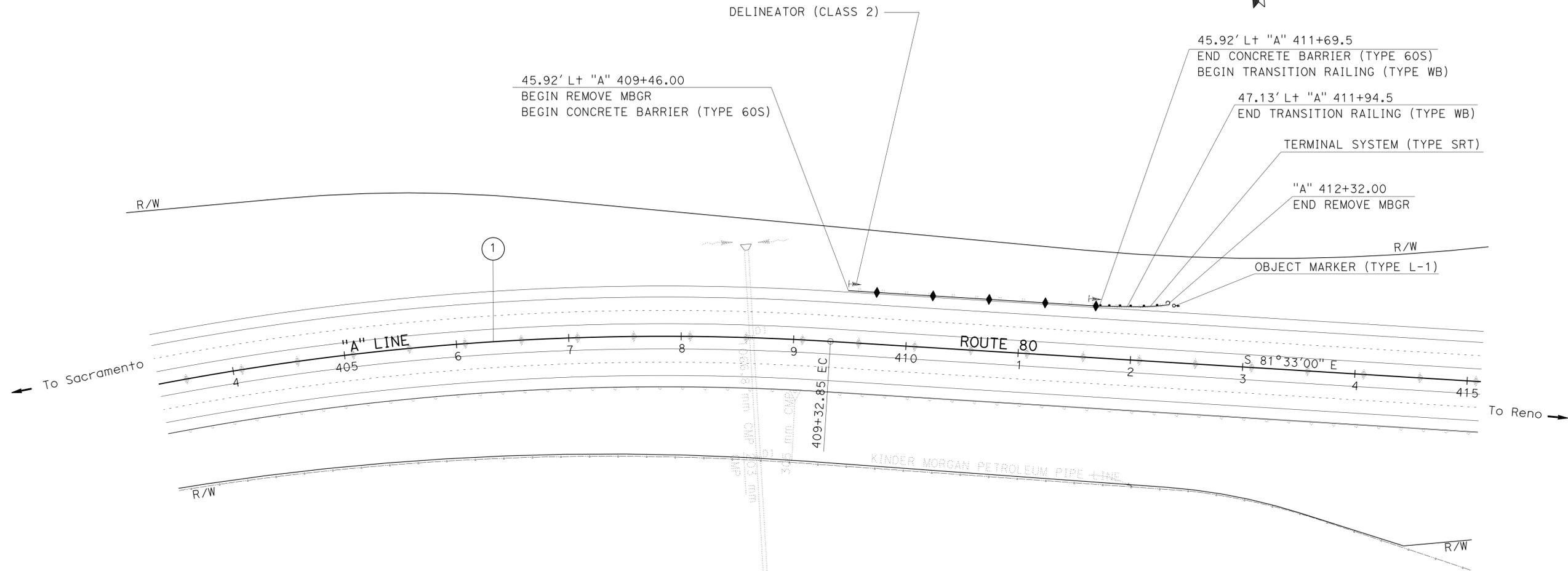
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plac	49,80,193	Var	5	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13	DATE	
8-12-13			PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



NOTE:

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	DZUNG BUI	REVISED BY
Caltrans	STEPHEN T. WRIGHT	CHECKED BY	AI K. TRAN	DATE REVISED
TRAFFIC				



LOCATION 5

PLA 80 - WB PM 45.29-45.34

CURVE DATA

No. ⊕	R	Δ	T	L
1	2400'	14°19'20"	301.57'	600'

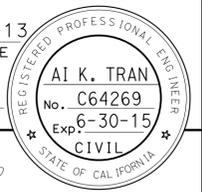
LAYOUT

SCALE 1"=50'

L-4

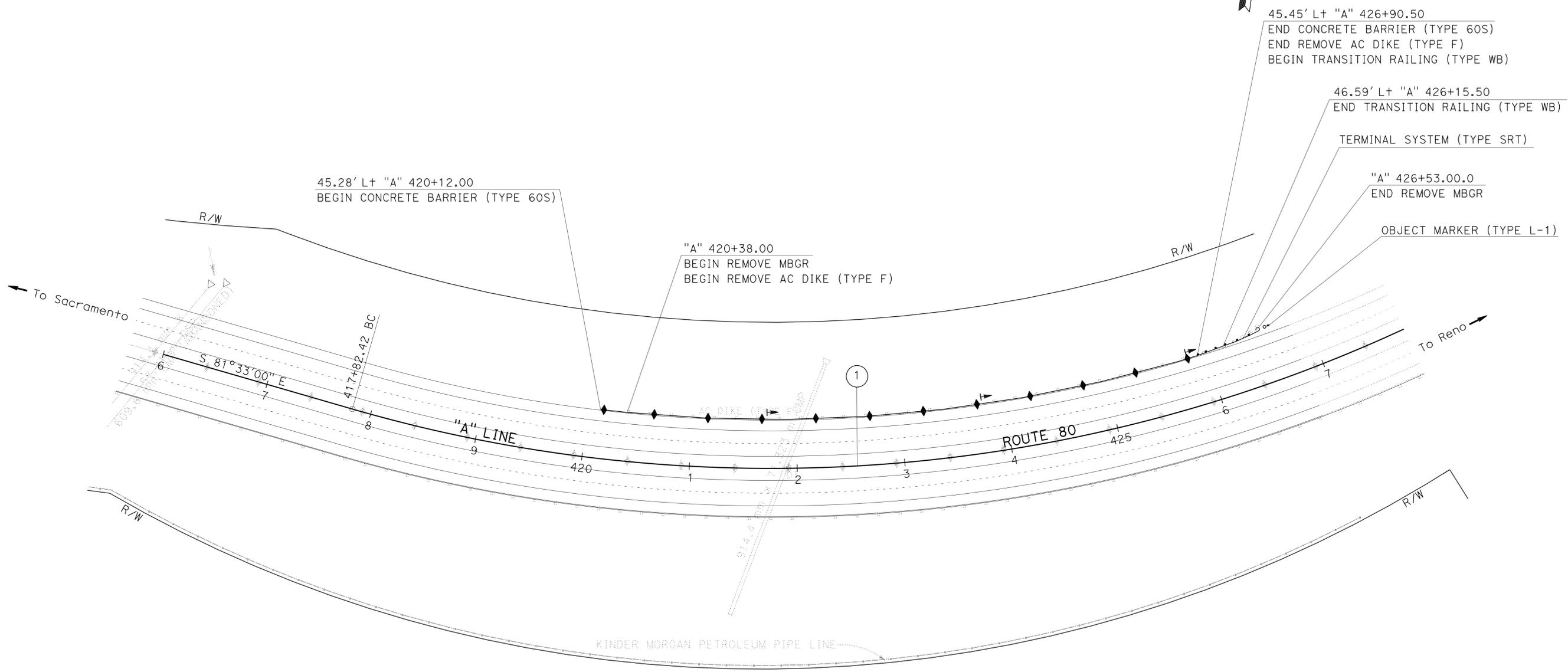


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	6	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13	DATE	
8-12-13 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR BY
Caltrans	STEPHEN T. WRIGHT	DZUNG BUI	AI K. TRAN
TRAFFIC			



LOCATION 6
 PLA 80 - WB PM 45.48-45.60

CURVE DATA

No. Ⓢ	R	Δ	T	L
1	1400'	36° 51' 09"	466.31'	900.25'

LAYOUT

SCALE 1"=50'

L-5

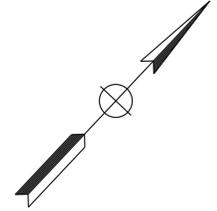
LAST REVISION: DATE PLOTTED => 14-AUG-2013 TIME PLOTTED => 12:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	7	43

Frankal 8-12-13
 REGISTERED CIVIL ENGINEER DATE
 8-12-13
 PLANS APPROVAL DATE

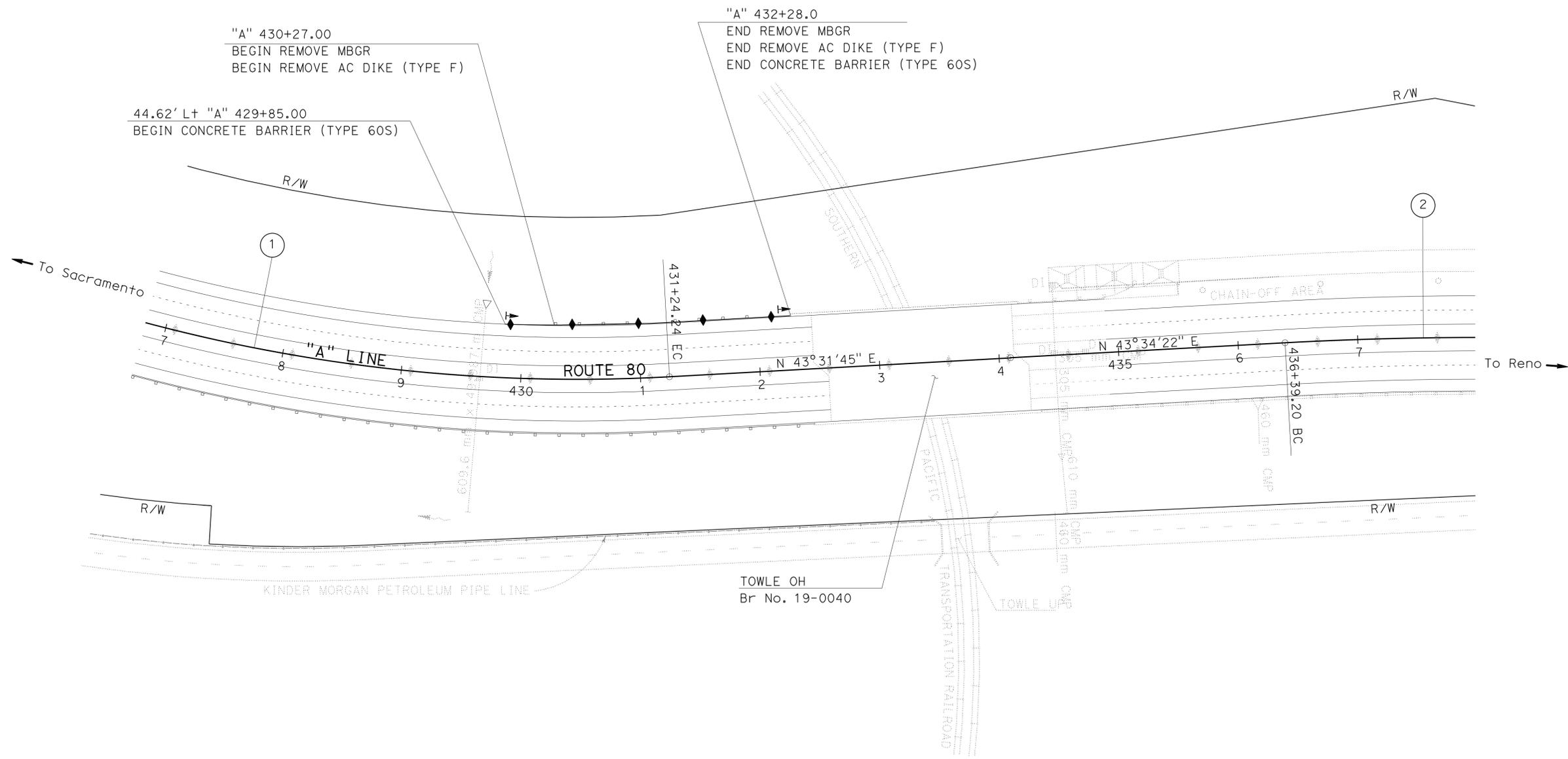
REGISTERED PROFESSIONAL ENGINEER
 AI K. TRAN
 No. C64269
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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



NOTE:

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



LOCATION 7

PLA 80 - WB PM 45.67-45.71

CURVE DATA

No. ⊕	R	Δ	T	L
1	1400'	18°04'52"	222.70'	441.70'
2	2998'	3°02'13"	79.47'	158.91'

LAYOUT

SCALE 1"=50'

L-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: STEPHEN T. WRIGHT
 CALCULATED/DESIGNED BY: DZUNG BUI
 CHECKED BY: AI K. TRAN
 REVISED BY: DATE REVISION

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	8	43

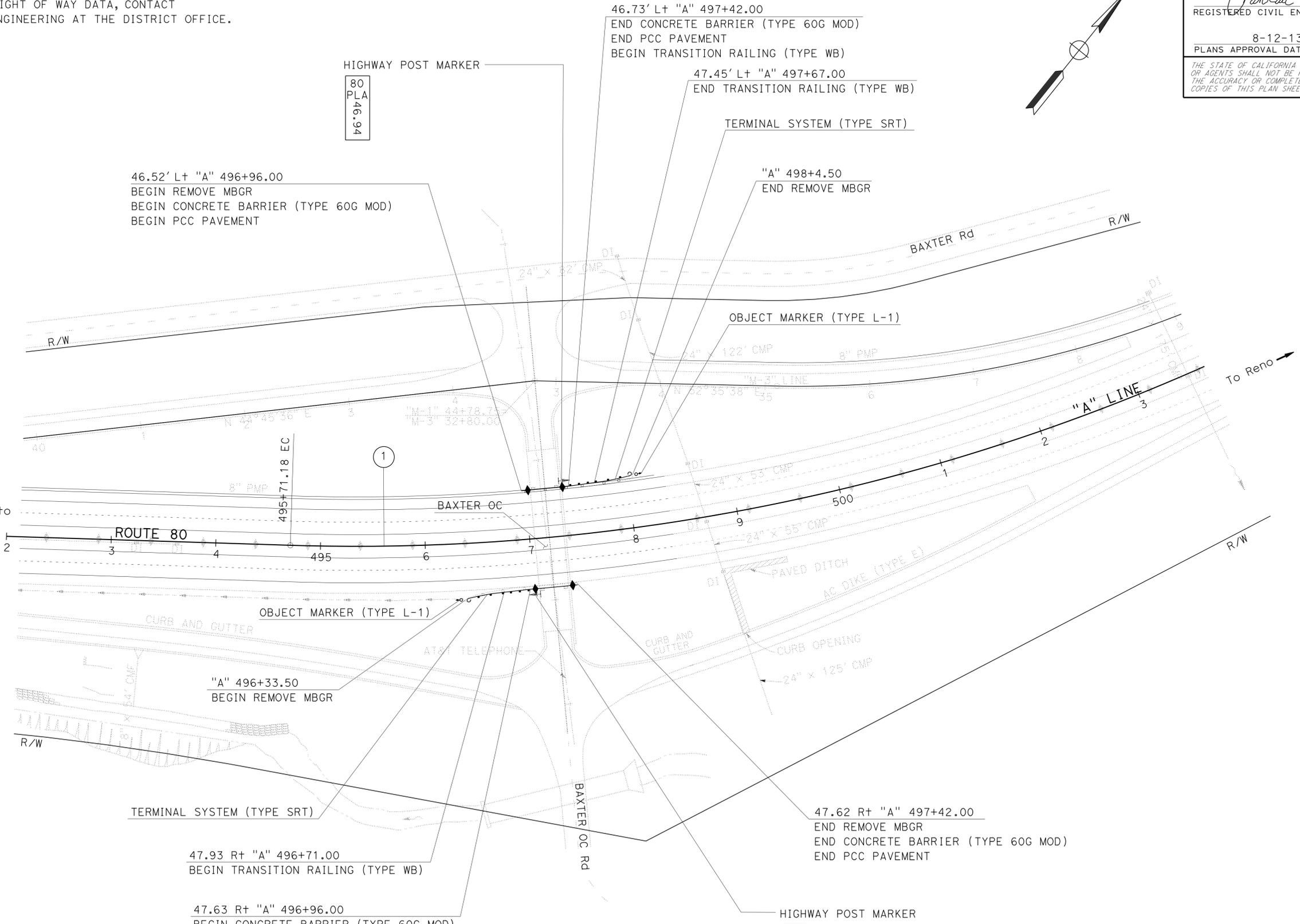
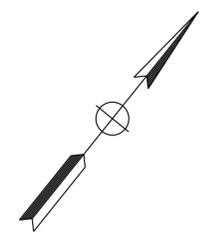
Frankal 8-12-13
 REGISTERED CIVIL ENGINEER DATE
 8-12-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 No. C64269
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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NOTE:

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



CURVE DATA

No. ①	R	Δ	T	L
1	1999'	10°27'54"	183.10'	365.18'

LOCATION 8

PLA 80 - WB PM 46.94-46.96
 PLA 80 - EB PM 46.92-46.94

LAYOUT

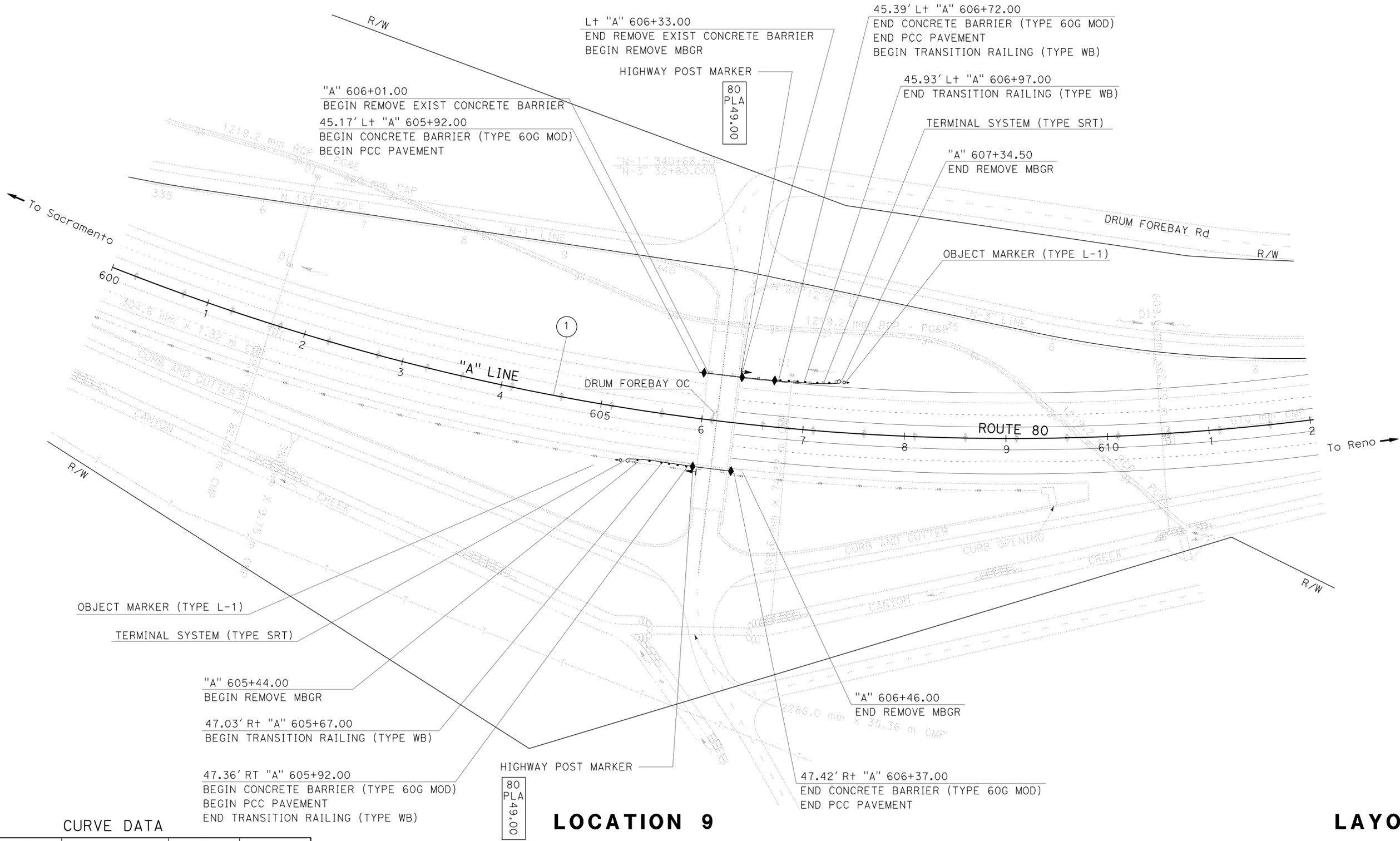
SCALE 1"=50'

L-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 TRAFFIC
 Et Caltrans
 FUNCTIONAL SUPERVISOR: STEPHEN T. WRIGHT
 CALCULATED/DESIGNED BY: AI K. TRAN
 CHECKED BY: AI K. TRAN
 DZUNG BUI
 REVISOR: AI K. TRAN
 REVISIONS: (None listed)

NOTE:

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



CURVE DATA

No. ⊕	R	Δ	T	L
1	2407'	20° 39' 52"	438.9'	868.29'

LOCATION 9

PLA 80 - WB PM 49.00-49.02
 PLA 80 - EB PM 48.98-49.00

LAYOUT

SCALE 1"=50'

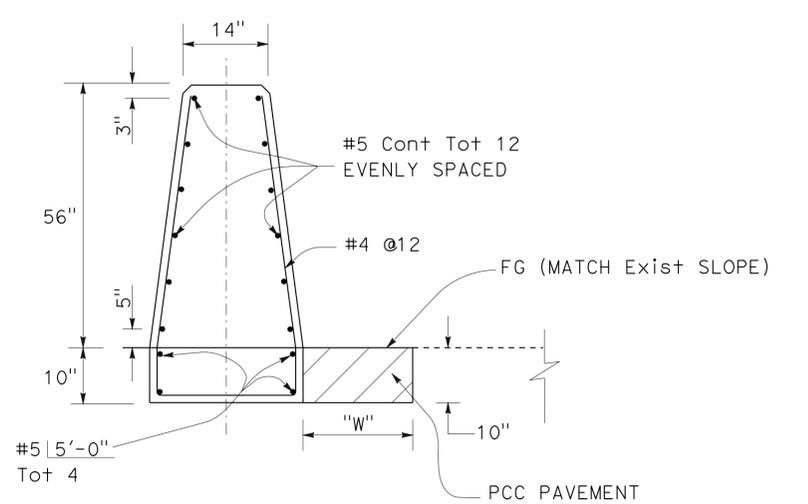
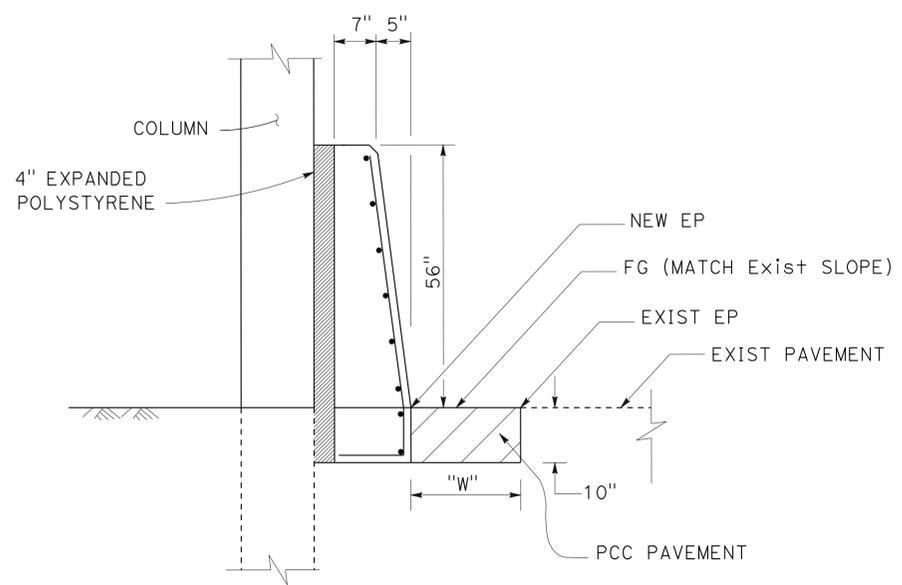
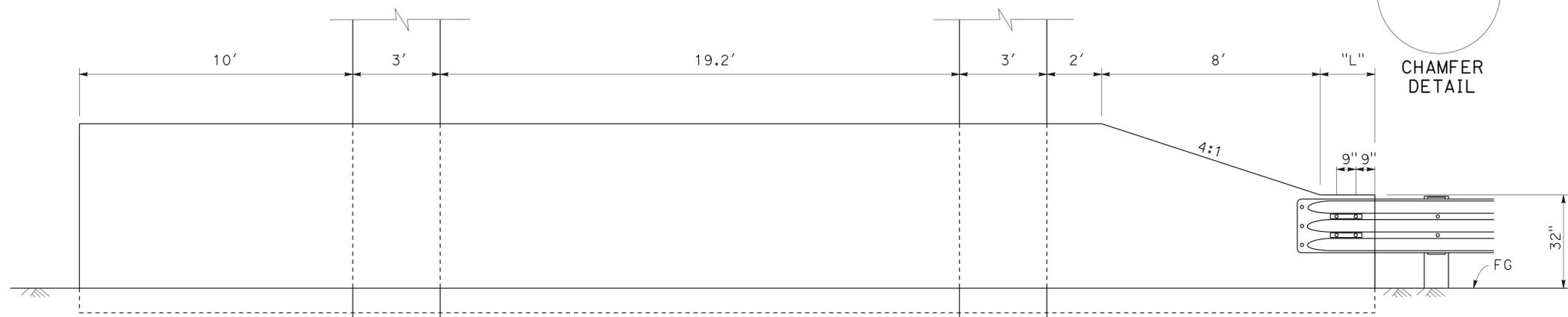
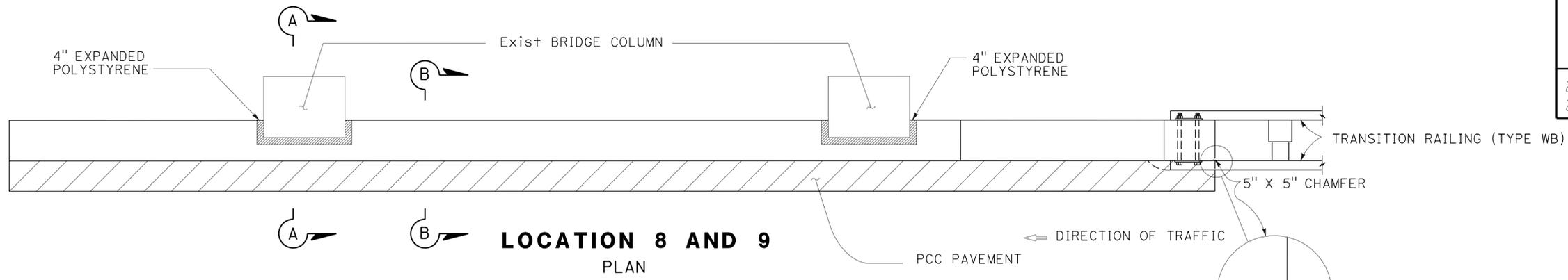
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: STEPHEN T. WRIGHT
 CALCULATED/DESIGNED BY: DZUNG BUI
 CHECKED BY: AI K. TRAN
 REVISED BY: DATE REVISOR

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	10	43

Frankal 8-12-13
 REGISTERED CIVIL ENGINEER DATE
 8-12-13
 PLANS APPROVAL DATE

AI K. TRAN
 No. C64269
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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LOCATION	"L"	"W"
LOCATION 8	EB	2'
	WB	0.6'
LOCATION 9	EB	2'
	WB	37'

CONCRETE BARRIER (TYPE 60G MODIFIED)

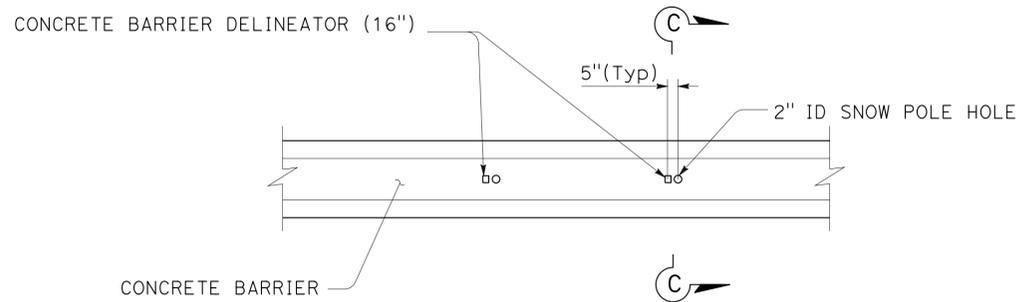
CONSTRUCTION DETAILS

NO SCALE

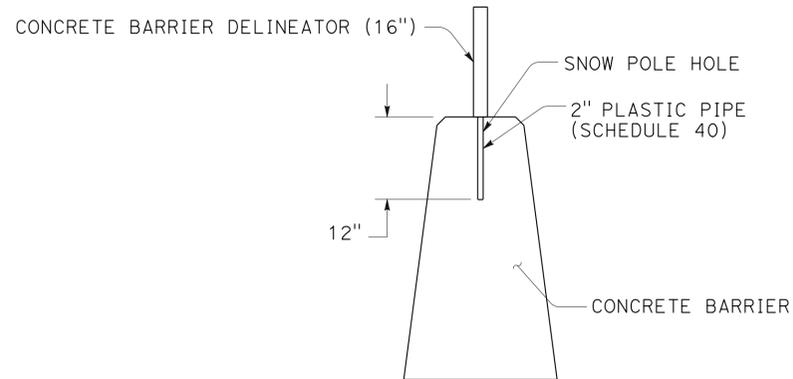
C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: STEPHEN T. WRIGHT
 CALCULATED/DESIGNED BY: AI K. TRAN
 CHECKED BY:
 DZUNG BUI
 REVISED BY: AI K. TRAN
 DATE REVISED:

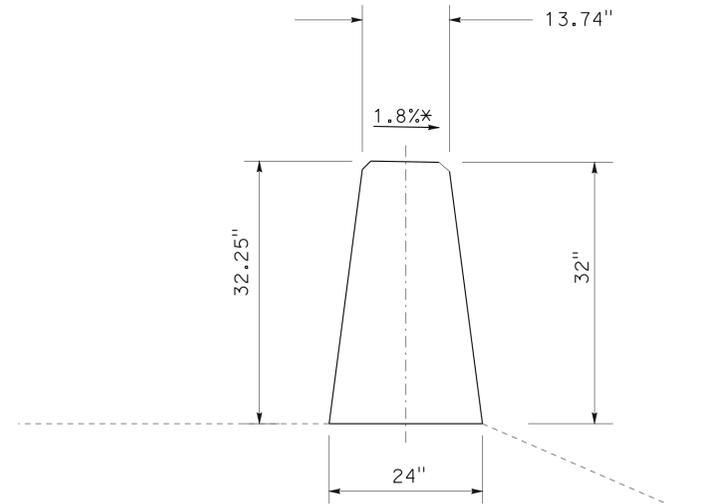
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	11	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13 DATE		
PLANS APPROVAL DATE			8-12-13		
REGISTERED PROFESSIONAL ENGINEER AI K. TRAN No. C64269 Exp. 6-30-15 CIVIL STATE OF CALIFORNIA					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



**HOLE IN CONCRETE BARRIER
FOR SNOW POLE POST**



SECTION C-C



**SLOPED TOP BARRIER
(TYPE 60S)**

* SLOPE AWAY FROM THE TRAVELED WAY

CONSTRUCTION DETAILS

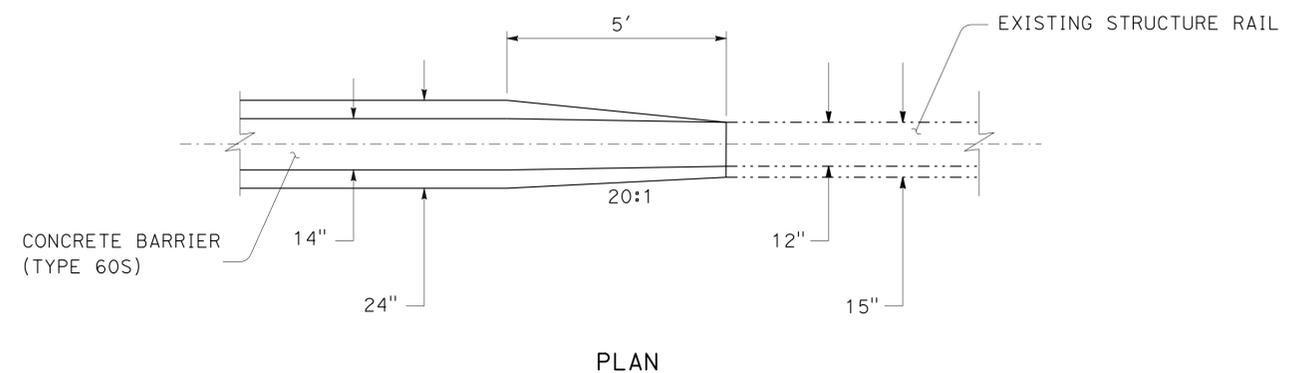
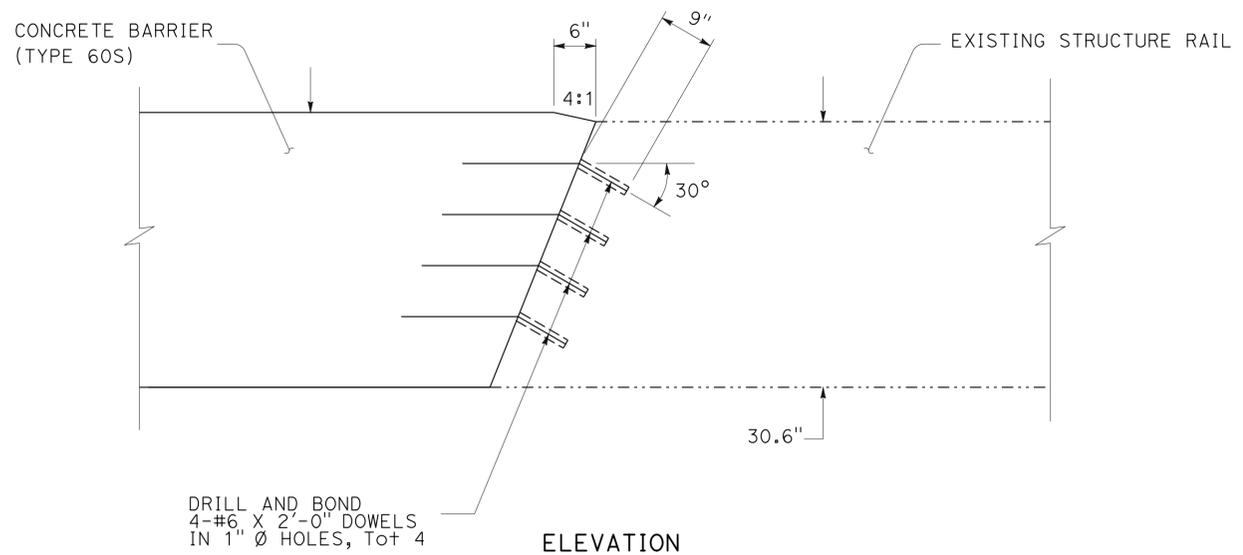
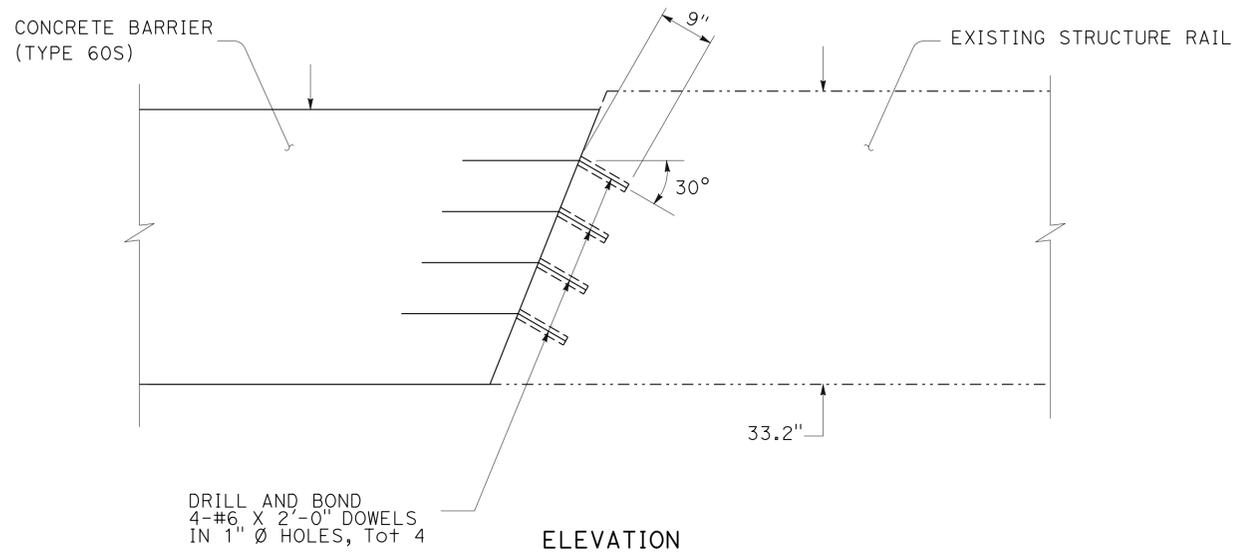
NO SCALE

C - 2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	STEPHEN T. WRIGHT	DZUNG BUI	
TRAFFIC		AI K. TRAN	
	CALCULATED/DESIGNED BY	REVISOR	DATE
	CHECKED BY		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	12	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13 DATE		
PLANS APPROVAL DATE			8-12-13		
<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>					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC
 FUNCTIONAL SUPERVISOR
 STEPHEN T. WRIGHT
 CALCULATED/DESIGNED BY
 CHECKED BY
 DZUNG BUI
 AI K. TRAN
 REVISED BY
 DATE
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100



CONCRETE BARRIER AND BRIDGE RAIL TAPING DETAIL

CONSTRUCTION DETAILS

NO SCALE **C-3**

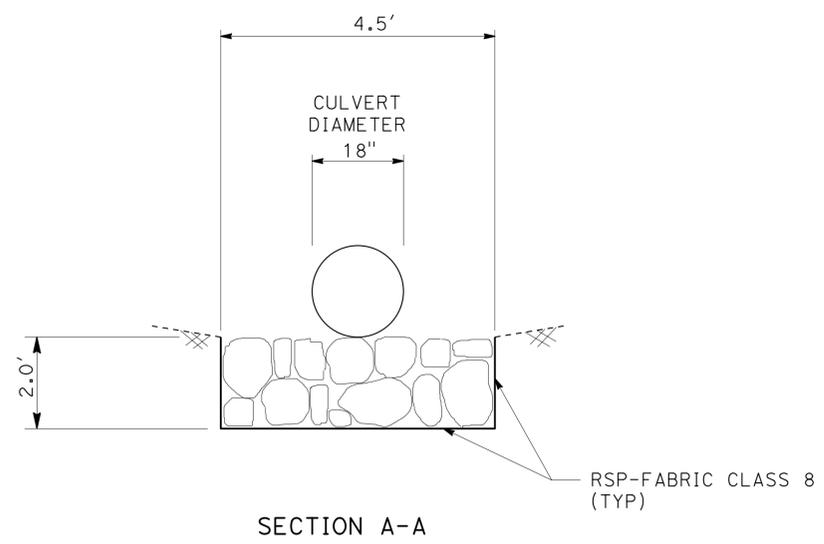
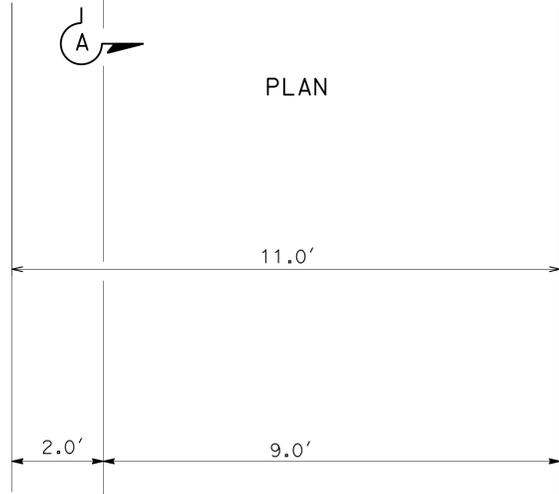
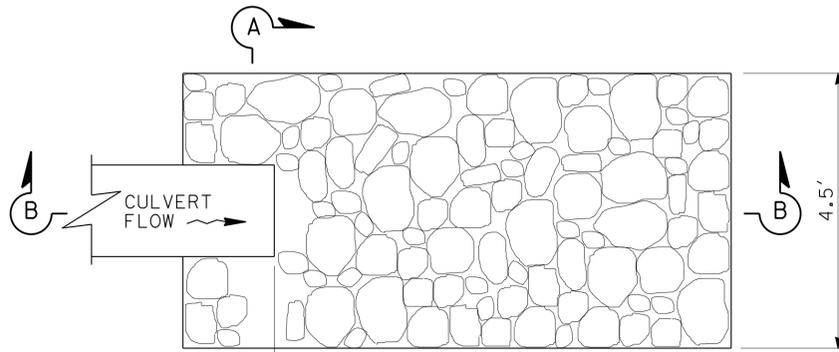
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03	Pla	49,80,193	Var	14	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13	DATE	
8-12-13 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



NOTES:

- EXCAVATE AND/OR FILL DISSIPATOR TRENCH TO DIMENSIONS (X, Y, Z) AS SHOWN. SQUARED EDGES NOT REQUIRED.
- PLACE RSP-FABRIC LOOSELY ON BOTTOM & ALL SIDES OF TRENCH. PIN RSP-FABRIC TO SIDES OF TRENCH AS REQUIRED.
- PLACE RSP CLASS DISSIPATER ROCK IN TRENCH SO THAT ROCK DOES NOT PROTRUDE ABOVE CULVERT FLOW-LINE OR ADJACENT GROUND.
- MATCH DISSIPATER GRADE WITH DOWNSTREAM FLOW-LINE AND ADJACENT GROUND.
- RSP-FABRIC SHALL NOT BE EXPOSED ABOVE GROUND.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC
 FUNCTIONAL SUPERVISOR
 STEPHEN T. WRIGHT
 CALCULATED/DESIGNED BY
 CHECKED BY
 DZUNG BUI
 AI K. TRAN
 REVISED BY
 DATE REVISED



RSP DETAIL FOR DRAINAGE SYSTEM No. 1

DRAINAGE DETAILS

NO SCALE

DD-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	15	43

Frankal 8-12-13
 REGISTERED CIVIL ENGINEER DATE
 8-12-13
 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.

DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	LF	CY	SQYD	EA	EA	TON	LF	DESCRIPTION	STATION	DRAINAGE SYSTEM No.	DRAINAGE UNIT
L-1	1	a					1.0			TAPERED INLET	"B1" 12+73.6	1	a
		b	16.0							18"x16' CSP DOWNDRAIN			b
		c				1.0				18" CSP COUPLER			c
DP-1		d		3.7	20.0			0.5		RSP			d
									6.0				
SUBTOTAL						1.0							
TOTAL			16.0	3.7	20.0		1.0	0.5	6.0				

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

DRAINAGE QUANTITIES

DQ-1

LAST REVISION | DATE PLOTTED => 14-AUG-2013 | TIME PLOTTED => 12:44
 08-01-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	16	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13	DATE	
8-12-13 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.					

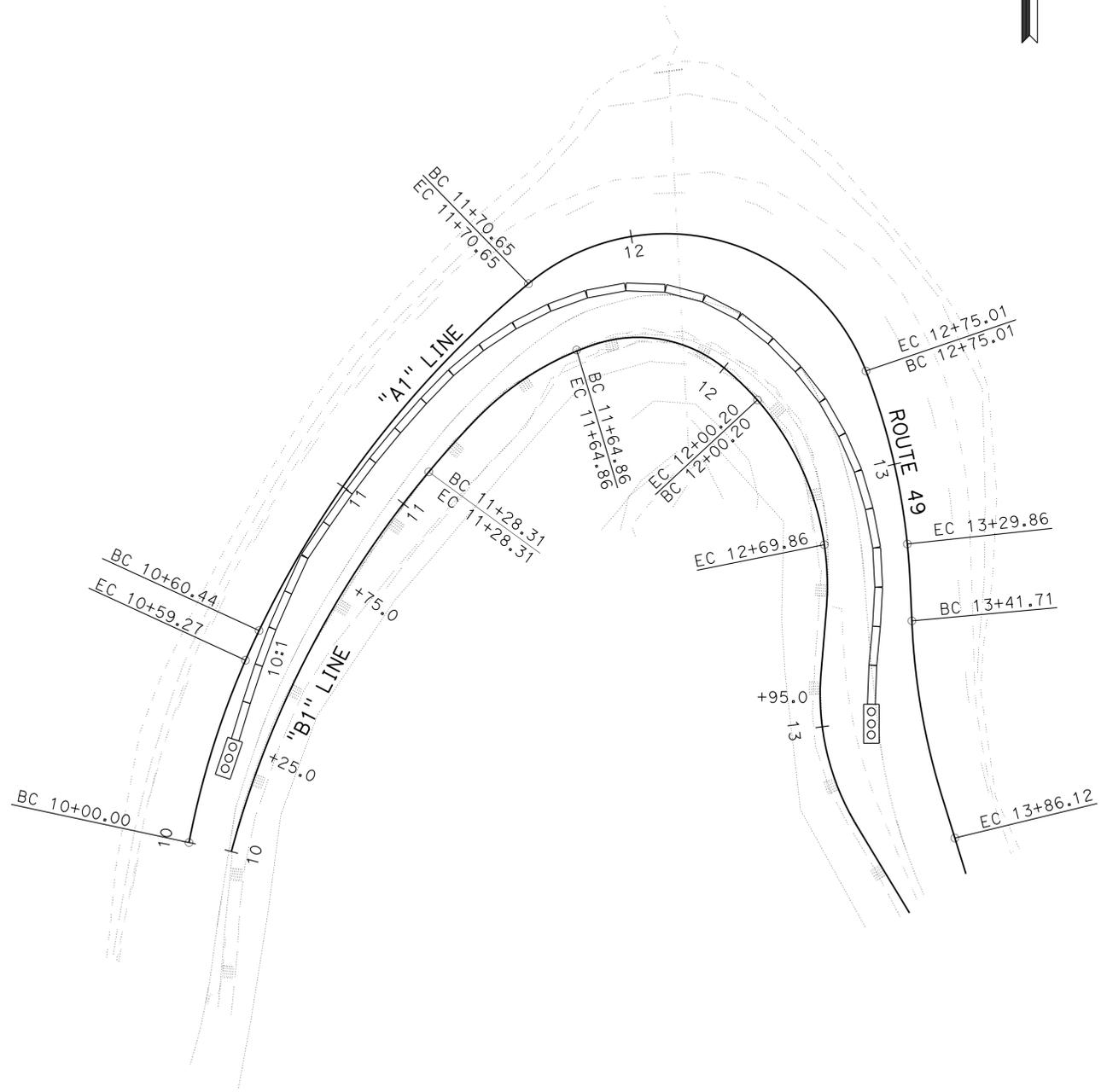


NOTES:

- 10'-SECTION TEMPORARY K-RAILS TO BE INSTALLED 14' FROM "B1" LINE OR AS DETERMINED BY THE ENGINEER.
- ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
- ALL TRAFFIC PLASTIC DRUMS SHALL BE INSTALLED ON 50' CENTERS UNLESS OTHERWISE SHOWN.

LEGEND

- TEMPORAY K-RAIL
- CRASH CUSHION TYPE ABSORB 350
- CONSTRUCTION AREA SIGN LETTER
- CALIFORNIA SIGN CODE
- TRAFFIC PLASTIC DRUM



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	STEPHEN T. WRIGHT	DZUNG BUI	
TRAFFIC		AI K. TRAN	
	CHECKED BY	DESIGNED BY	

TRAFFIC HANDLING PLAN
LOCATION 1
 SCALE: 1"=20'

TH-1

APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	17	43

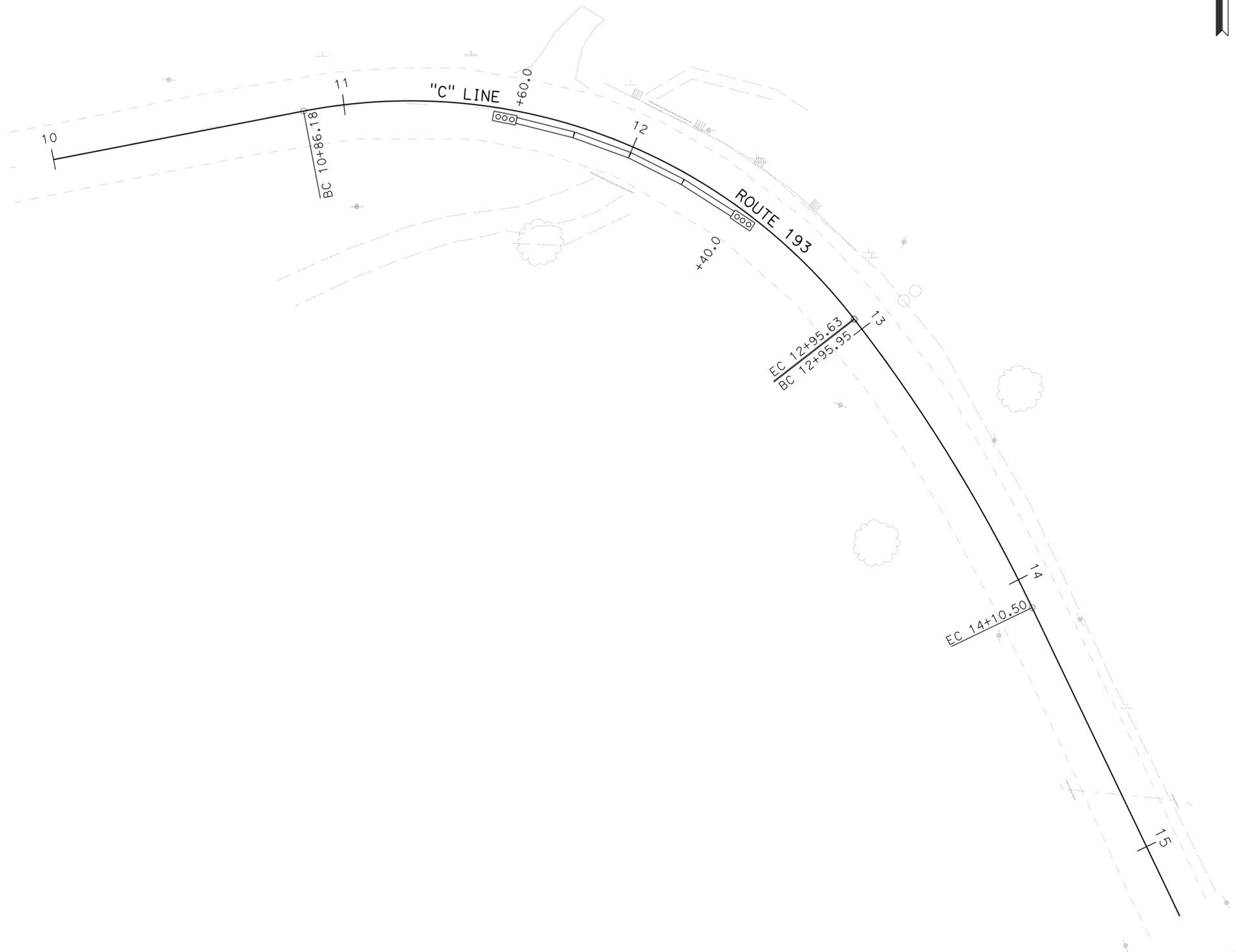
<i>Frankal</i>	8-12-13
REGISTERED CIVIL ENGINEER	DATE
8-12-13	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
AI K. TRAN
No. C64269
Exp. 6-30-15
CIVIL

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.



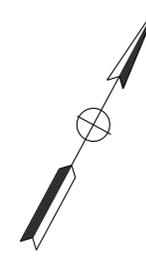
NOTE:
 1. TEMPORARY K-RAILS TO BE INSTALLED 2 FEET AWAY FROM "C" LINE OR AS DETERMINED BY THE ENGINEER.



TRAFFIC HANDLINE PLAN
LOCATION 2
 SCALE: 1"=20'
TH-2

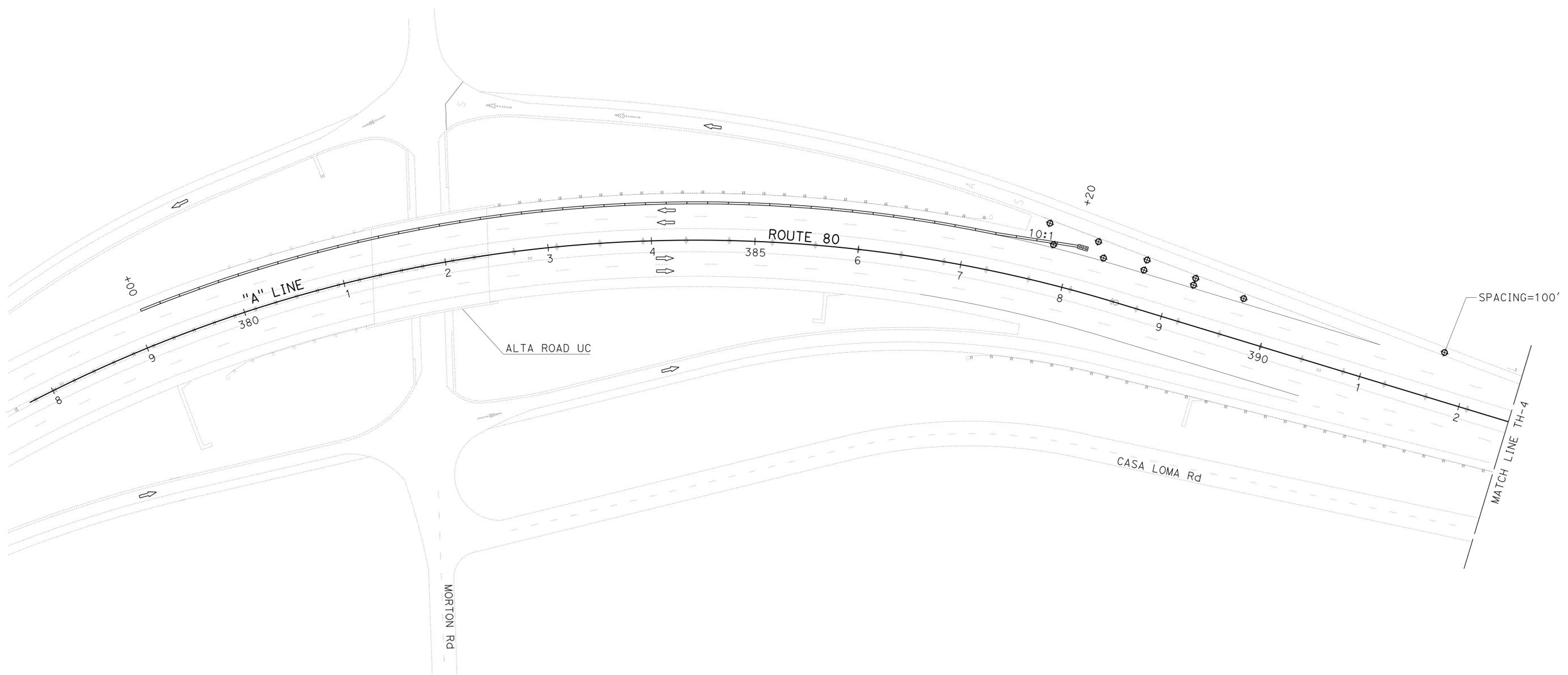
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	STEPHEN T. WRIGHT	DZUNG BUI	
	CHECKED BY	AI K. TRAN	
	DESIGNED BY		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	18	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER DATE			8-12-13		
PLANS APPROVAL DATE			8-12-13		
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.					
					



NOTE:

1. TEMPORARY K-RAILS TO BE INSTALLED AT EDGE OF TRAVELED WAY.



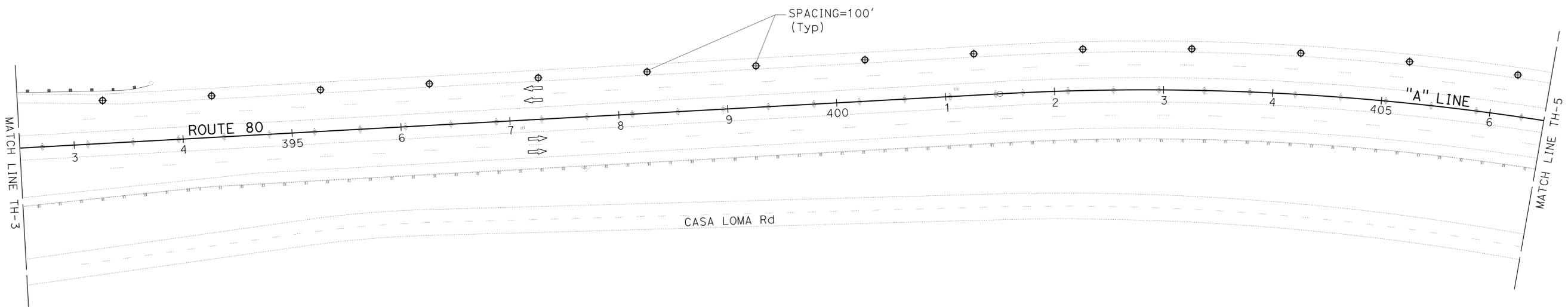
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	JACK KEMMERLY	REVISED BY
Caltrans	SERGIO ACEVES	CHECKED BY	AI K. TRAN	DATE
TRAFFIC DESIGN				REVISED

APPROVED FOR TRAFFIC HANDLING WORK ONLY

TRAFFIC HANDLING PLAN
LOCATION 3 AND 4
 SCALE: 1"=50'
TH-3

DATE PLOTTED => 14-AUG-2013
 TIME PLOTTED => 12:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	19	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13	DATE	
PLANS APPROVAL DATE			8-12-13		
REGISTERED PROFESSIONAL ENGINEER AI K. TRAN No. C64269 Exp. 6-30-15 CIVIL STATE OF CALIFORNIA					
<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>					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	JACK KEMMERLY	REVISOR BY	
Caltrans	SERGIO ACEVES	CHECKED BY	AI K. TRAN	DATE REVISED	
TRAFFIC DESIGN					

TRAFFIC HANDLING PLAN
LOCATION 5, 6 AND 7
 SCALE: 1"=50'

TH-4

APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	20	43

<i>Frankal</i>	8-12-13
REGISTERED CIVIL ENGINEER	DATE
8-12-13	
PLANS APPROVAL DATE	

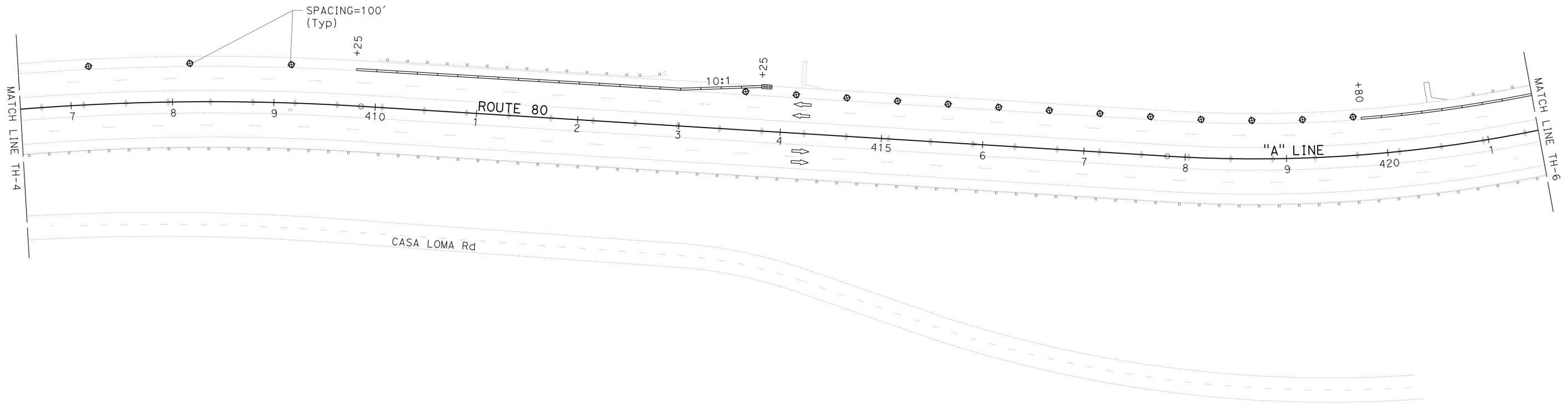
REGISTERED PROFESSIONAL ENGINEER
AI K. TRAN
No. C64269
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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



NOTE:

1. TEMPORARY K-RAILS TO BE INSTALLED AT EDGE OF TRAVELED WAY.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	JACK KEMMERLY	REVISED BY
Caltrans	SERGIO ACEVES	CHECKED BY	AI K. TRAN	DATE
				REVISED
				DATE
				REVISED
				DATE

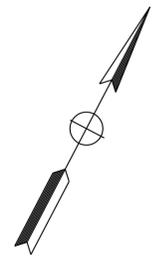
APPROVED FOR TRAFFIC HANDLING WORK ONLY



TRAFFIC HANDLING PLAN
LOCATION 5, 6 AND 7
 SCALE: 1"=50'

TH-5

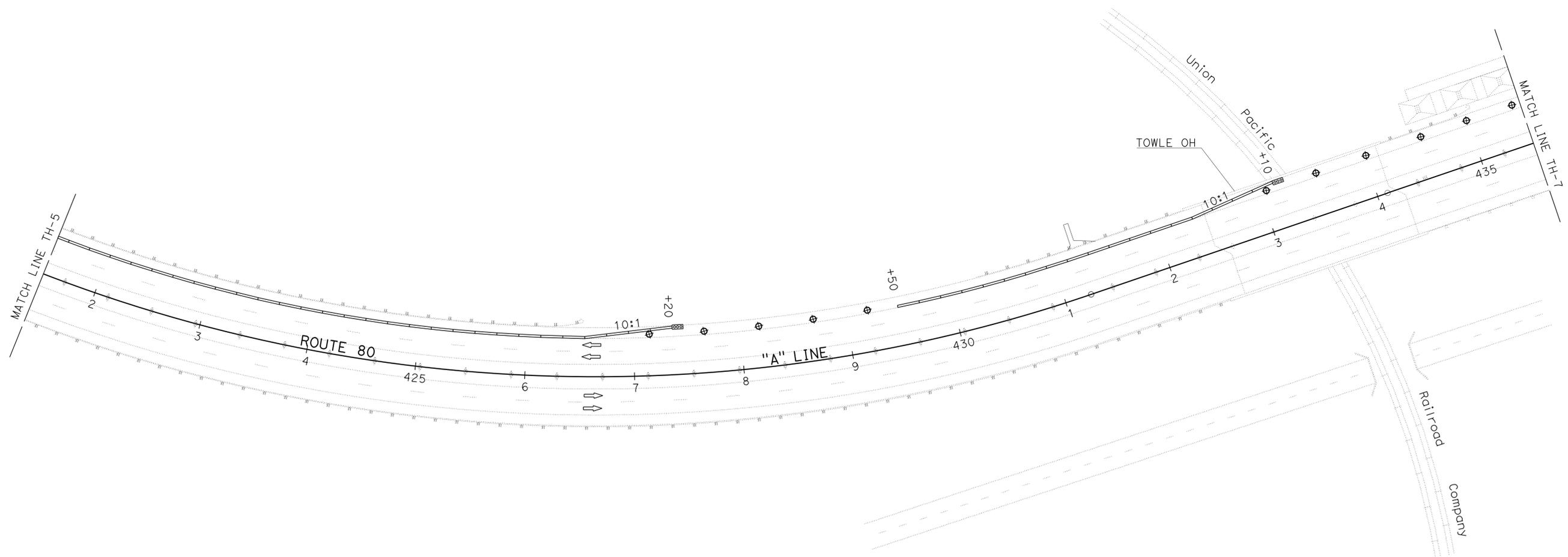
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	21	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13	DATE	
8-12-13 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



NOTE:

1. TEMPORARY K-RAILS TO BE INSTALLED AT EDGE OF TRAVELED WAY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	JACK KEMMERLY	REVISOR BY	
Caltrans	SERGIO ACEVES	CHECKED BY	AI K. TRAN	DATE	
TRAFFIC DESIGN					



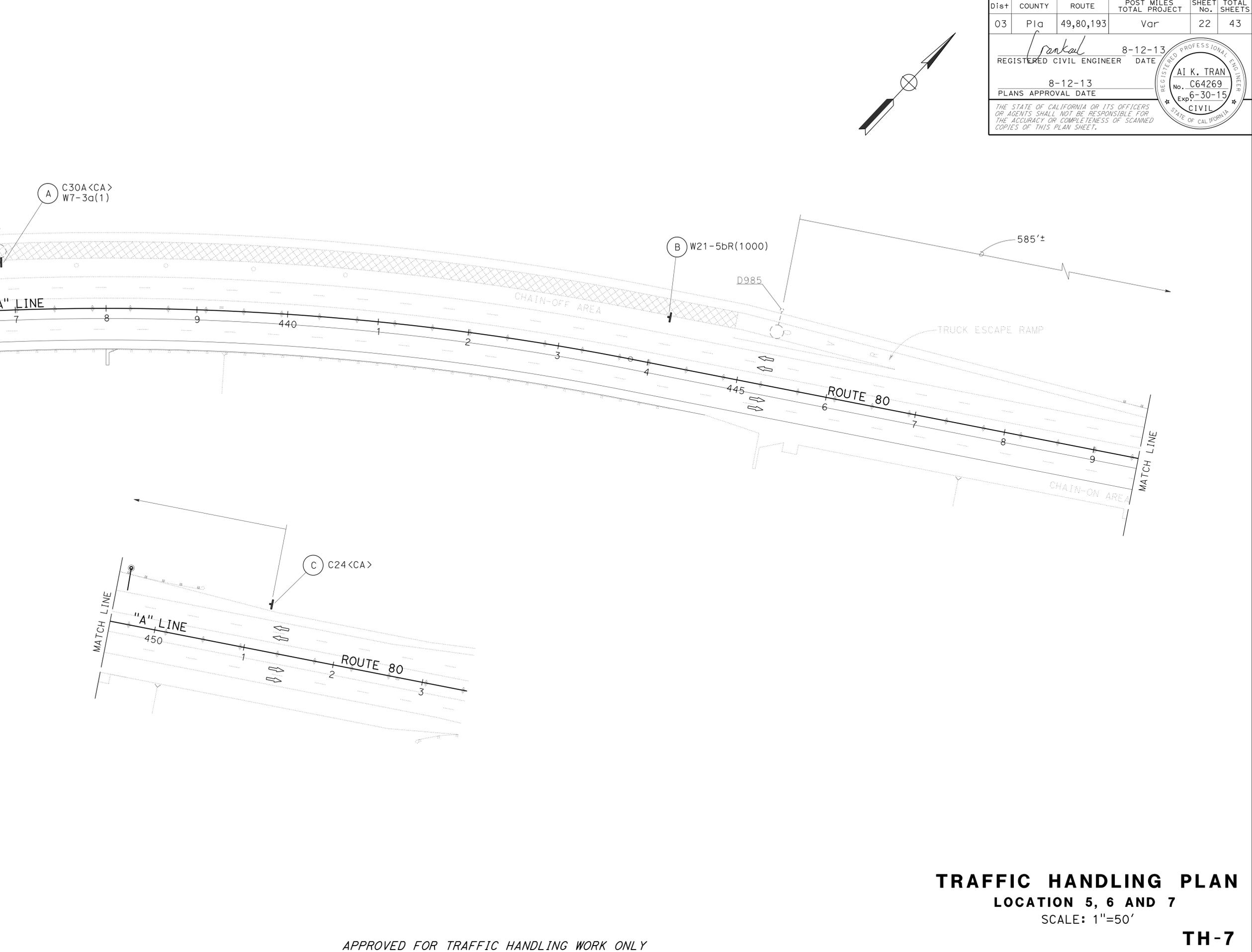
TRAFFIC HANDLING PLAN
LOCATION 5, 6 AND 7
 SCALE: 1"=50'

TH-6

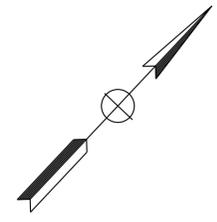
APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR	DATE
SERGIO ACEVES	JACK KEMMERLY	AI K. TRAN	
CHECKED BY	REVISOR	DATE	
	AI K. TRAN		



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	22	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13	DATE	
PLANS APPROVAL DATE			8-12-13		
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.					
REGISTERED PROFESSIONAL ENGINEER AI K. TRAN No. C64269 Exp. 6-30-15 CIVIL STATE OF CALIFORNIA					

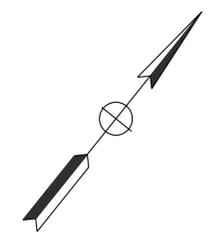


TRAFFIC HANDLING PLAN
LOCATION 5, 6 AND 7
 SCALE: 1"=50'

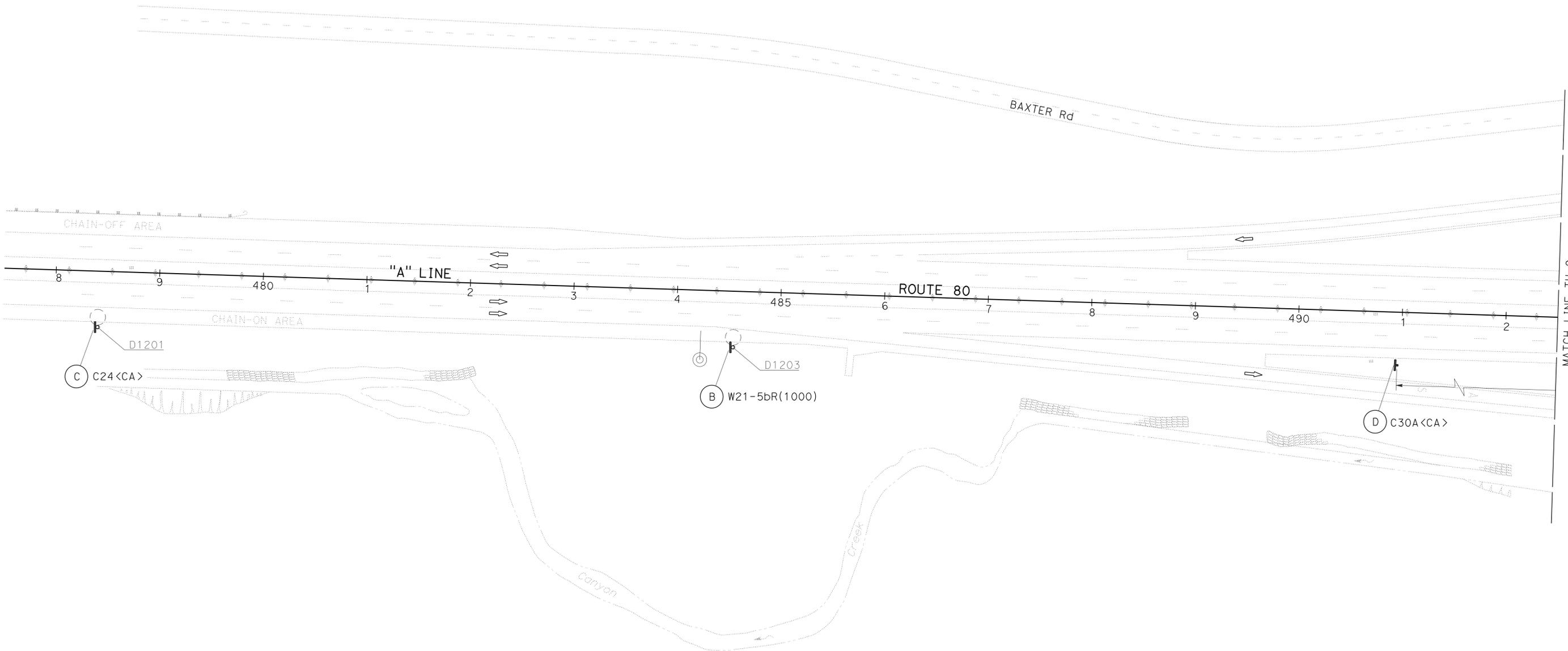
TH-7

APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plac	49,80,193	Var	23	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13	DATE	
8-12-13 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.					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	JACK KEMMERLY	REVISED BY	
Caltrans	SERGIO ACEVES	CHECKED BY	AI K. TRAN	DATE	
TRAFFIC DESIGN					



TRAFFIC HANDLING PLAN

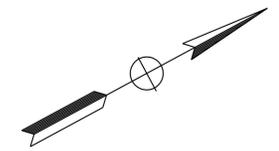
LOCATION 8

SCALE: 1"=50'

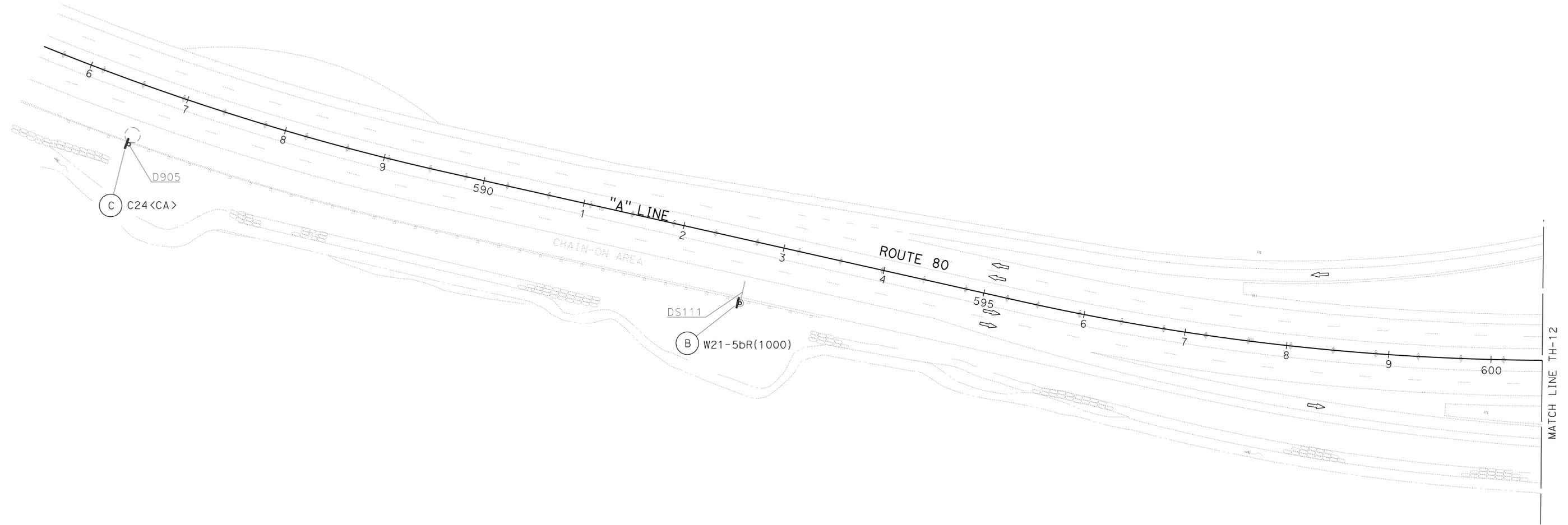
TH-8

APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plac	49,80,193	Var	26	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13	DATE	
PLANS APPROVAL DATE			8-12-13		
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.					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	JACK KEMMERLY	REVISED BY	
Caltrans	SERGIO ACEVES	CHECKED BY	AI K. TRAN	DATE	
TRAFFIC DESIGN					

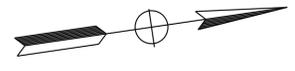
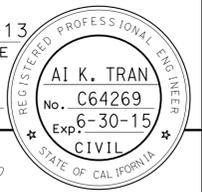


TRAFFIC HANDLING PLAN
LOCATION 9
 SCALE: 1"=50'

TH-11

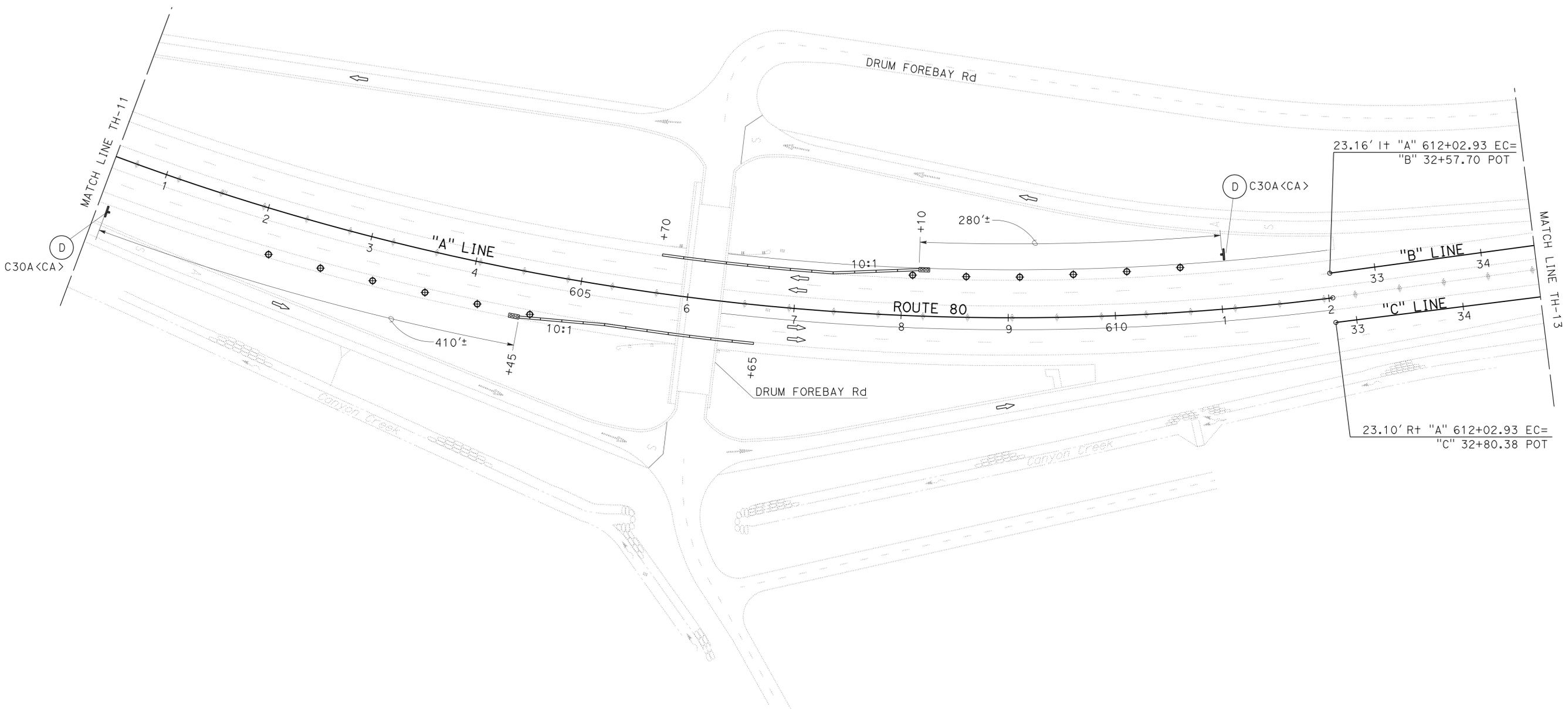
APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	27	43
<i>Frankal</i> REGISTERED CIVIL ENGINEER			8-12-13	DATE	
8-12-13 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>					



NOTE:
 1. TEMPORARY K-RAILS TO BE INSTALLED AT EDGE OF TRAVELED WAY.

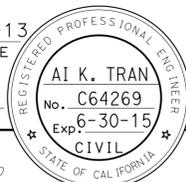
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	JACK KEMMERLY	REVISOR	DATE
Caltrans	AI K. TRAN	REVISOR	DATE
FUNCTIONAL SUPERVISOR	CHECKED BY	CALCULATED/DESIGNED BY	
SERGIO ACEVES			
TRAFFIC DESIGN			

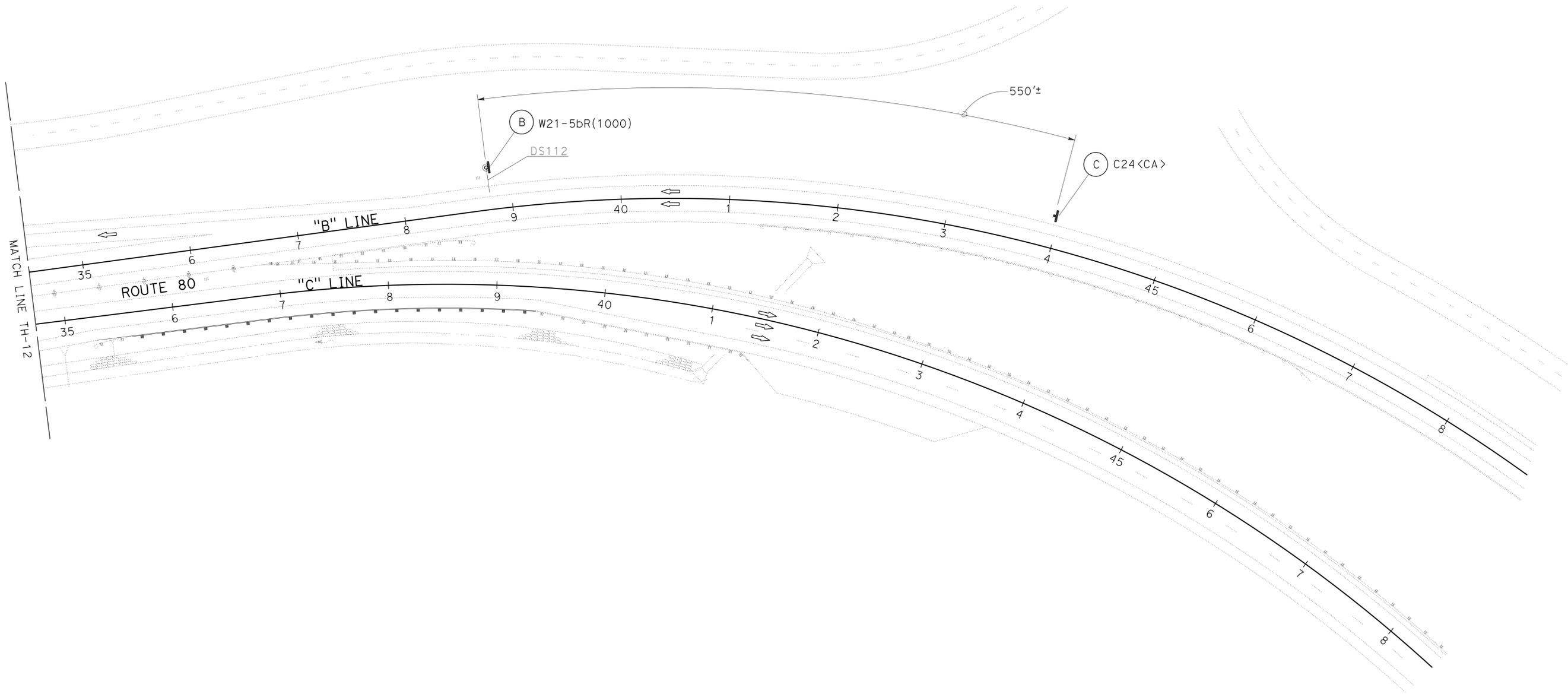


TRAFFIC HANDLING PLAN
LOCATION 9
 SCALE: 1"=50'
TH-12

APPROVED FOR TRAFFIC HANDLING WORK ONLY

DATE PLOTTED => 14-AUG-2013
 TIME PLOTTED => 12:44
 LAST REVISION 7-2-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plac	49,80,193	Var	28	43
<i>Trankal</i> REGISTERED CIVIL ENGINEER			8-12-13 DATE		
8-12-13 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>		



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	JACK KEMMERLY	REVISOR BY	
Caltrans	SERGIO ACEVES	CHECKED BY	AI K. TRAN	DATE	
TRAFFIC DESIGN					

TRAFFIC HANDLING PLAN
LOCATION 9
 SCALE: 1"=50'

TH-13

APPROVED FOR TRAFFIC HANDLING WORK ONLY

BORDER LAST REVISED 7/2/2010

USERNAME => s130875
 DGN FILE => 0312000283md013.dgn

RELATIVE BORDER SCALE
 1" = 50' INCHES



UNIT 0390

PROJECT NUMBER & PHASE

03120002831

LAST REVISION: 7-2-13
 DATE PLOTTED => 14-AUG-2013
 TIME PLOTTED => 12:44

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: STEPHEN T. WRIGHT
 DZUNG BUI
 AI K. TRAN
 REVISOR: AI K. TRAN
 DATE: 8-12-13

LEGEND
 PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 <CA> CALIFORNIA SIGN CODE
 | SIGN - SINGLE POST
 ⇨ DIRECTION OF TRAVEL

NOTES:

1. EXACT SIGN LOCATIONS, INCLUDING PCMS SIGNS, TO BE DETERMINED BY THE ENGINEER.
2. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
3. CSP = SPECIAL STATIONARY MOUNTED CONSTRUCTION AREA SIGN
4. THE CSP SIGN PANELS SHALL BE BLACK ON ORANGE.
5. NUMBER OF SIGN PANELS REQUIRED PER DETOUR SHOWN DOES NOT INCLUDE SIGNS SHOWN ON STANDARD PLANS.
6. THIS PLAN ACCURATE FOR DETOUR TRAFFIC HANDLING ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pls	49,80,193	Var	30	43

8-12-13
 REGISTERED CIVIL ENGINEER DATE
 8-12-13
 PLANS APPROVAL DATE

AI K. TRAN
 No. C64269
 Exp. 6-30-15
 CIVIL

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.



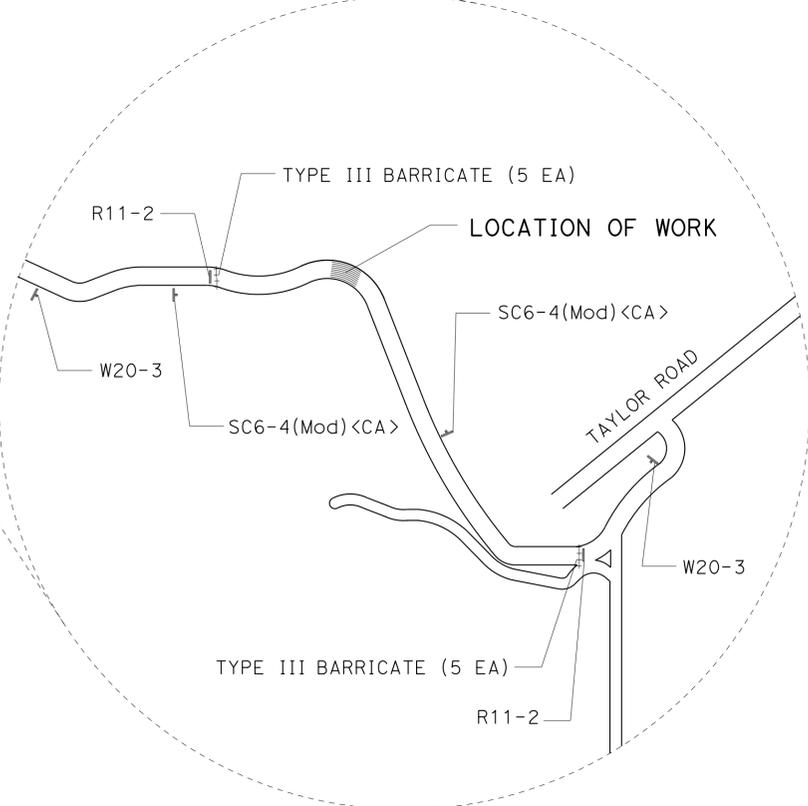
TRAFFIC DETOUR PLANS

WESTBOUND 80 TO LINCOLN
 (ROUTE 193 WEST CLOSED AT DUTCH RAVINE BRIDGE)
 TAKE ROUTE 80 WEST TO ROUTE 65
 TAKE ROUTE 65 NORTH TO FERRARI RANCH ROAD
 TURN RIGHT ON FERRARI RANCH ROAD TO ROUTE 193

EASTBOUND 80 TO LINCOLN
 (ROUTE 193 WEST CLOSED AT DUTCH RAVINE BRIDGE)
 TAKE ROUTE 80 WEST TO ROUTE 65
 TAKE ROUTE 65 NORTH TO FERRARI RANCH ROAD
 TURN RIGHT ON FERRARI RANCH ROAD TO ROUTE 193

SOUTH 65 TO NEWCASTLE
 (ROUTE 193 WEST CLOSED AT DUTCH RAVINE BRIDGE)
 TAKE ROUTE 65 SOUTH TO ROUTE 80
 TAKE ROUTE 80 EAST TO NEWCASTLE

NORTH 65 TO NEWCASTLE
 (ROUTE 193 WEST CLOSED AT DUTCH RAVINE BRIDGE)
 TAKE ROUTE 65 SOUTH TO ROUTE 80
 TAKE ROUTE 80 EAST TO NEWCASTLE



DETOUR PLAN
 NO SCALE

DE-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	31	43

Frankal 8-12-13
 REGISTERED CIVIL ENGINEER DATE

8-12-13
 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.



ADDITIONAL CONSTRUCTION AREA SIGNS

TYPE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	REMARKS	QUANTITY
CSP-1 <CA>	54" X 30"	SR 193 CLOSED 6 MILES AHEAD	1 - 4" X 6"		1
SC6-4 (Mod) <CA>	48" X 60"	SR 193 CLOSED	1 - 6" X 6"	FOR DETAILS SEE SC6-4	2
SC3 <CA>	48" X 18"	↑ DETOUR	1 - 4" X 4"		5
M4-8a	24" X 18"	END DETOUR	1 - 4" X 4"		2
M4-10R	48" X 18"	DETOUR →	1 - 4" X 4"		1
W20-3	36" X 36"	ROAD CLOSED AHEAD	1 - 4" X 4"		2
R11-2	48" X 30"	ROAD CLOSED		MOUNTED ON BARRICADES	2

SIGN DETAILS

CSP-1 <CA>



5" C
(BLACK ON ORANGE)
54" x 30"

SC6-4 (Mod) <CA>



6" E
(BLACK ON ORANGE)
48" x 60"

BARRICADE TYPE (EA)	QUANTITY
TYPE III BARRICADE	10

DETOUR QUANTITIES

NO SCALE

DEQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: STEPHEN T. WRIGHT
 CALCULATED/DESIGNED BY: DZUNG BUI
 CHECKED BY: AI K. TRAN
 REVISED BY: DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	32	43

Frankal 8-12-13
 REGISTERED CIVIL ENGINEER DATE

8-12-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 AI K. TRAN
 No. C64269
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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

ROADWAY QUANTITIES

LOCATION	REMOVE METAL BEAM GUARD RAILING	REMOVE AC DIKE	REMOVE CONCRETE BARRIER	TRANSITION RAILING (TYPE WB)	MINOR CONCRETE (MINOR STRUCTURE)	TERMINAL SYSTEM (TYPE SRT)	(N) EXPANDED POLYSTYRENE	CONCRETE BARRIER (TYPE 60S)	CONCRETE BARRIER (TYPE 60G MOD)	ROADWAY EXCAVATION	TEMPORARY RAILING (TYPE K)	TEMPORARY CRASH CUSHION (TYPE ABSORB 350)	MINOR HMA	TREATED WOOD WASTE	NOTES
	LF	LF	LF	EA	CY	EA	CY	LF	LF	CY	LF	EA	TON	LB	
LOCATION 1	200	-		2							300	2		3345	SEE STRUCTURE PLANS FOR ADDITIONAL QUANTITIES
LOCATION 2	-	-		2		1				10.5	80	2	7	80	SEE STRUCTURE PLANS FOR ADDITIONAL QUANTITIES
LOCATION 3	200	-		-				200			340			3345	
LOCATION 4	470	-		1		1		406			580	1		7855	
LOCATION 5	286	-		1		1		224			400	1		4780	
LOCATION 6	615	550		1		1		479			740	1		10,280	
LOCATION 7	200	200		1		1		243			360	1		3345	
LOCATION 8	EB	109	-	1	2.3	1	0.3		45.2	2.8	220	1		1820	
	WB	109	-	1	0.8	1	0.3		45.2	2.8	220	1		1820	
LOCATION 9	EB	102	-	1	0.8	1	0.3		45.2	2.8	220	1		1705	
	WB	102	-	36	1	1	0.3	35	45.2	5.1	240	1		1705	
SUBTOTAL							1.2								
TOTAL		2,393	750	36	12	3.9	9	1,587	181	24.0	3,700	12	7	40,000	

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

SUMMARY OF QUANTITIES

Q-1

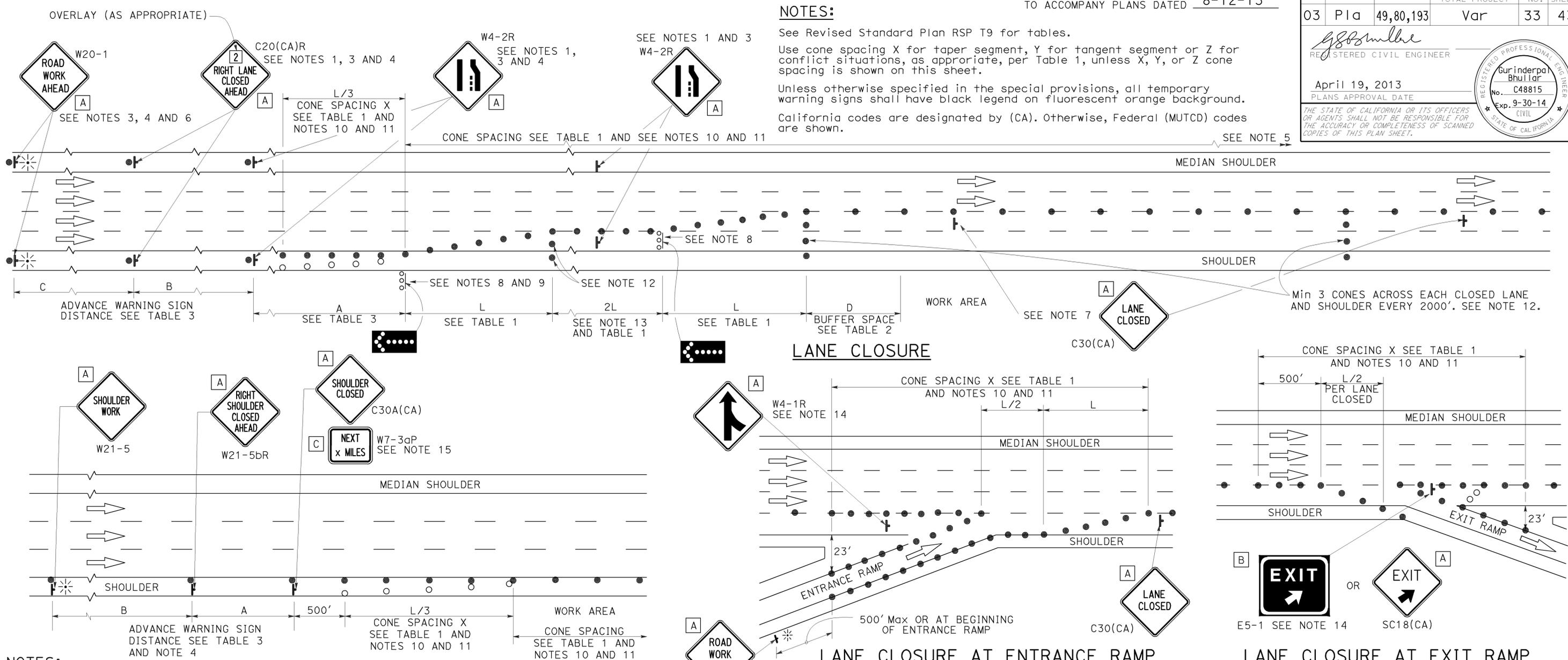
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC
 FUNCTIONAL SUPERVISOR: STEPHEN T. WRIGHT
 CALCULATED/DESIGNED BY: DZUNG BUI
 CHECKED BY: AI K. TRAN
 REVISED BY: DATE REVISION
 REVISIONS:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	33	43

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

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



- NOTES:**
1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
 2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 3. Duplicate sign installations are not required:
 - a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

- SHOULDER CLOSURE**
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA)L and W4-2L signs shall be used.
 7. Place a C30(CA) sign every 2000' throughout length of lane closure.
 8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
 9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ⚡ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 72" x 60"
- C 36" x 30"

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

NOTES:

See Revised Standard Plan RSP T9 for tables.

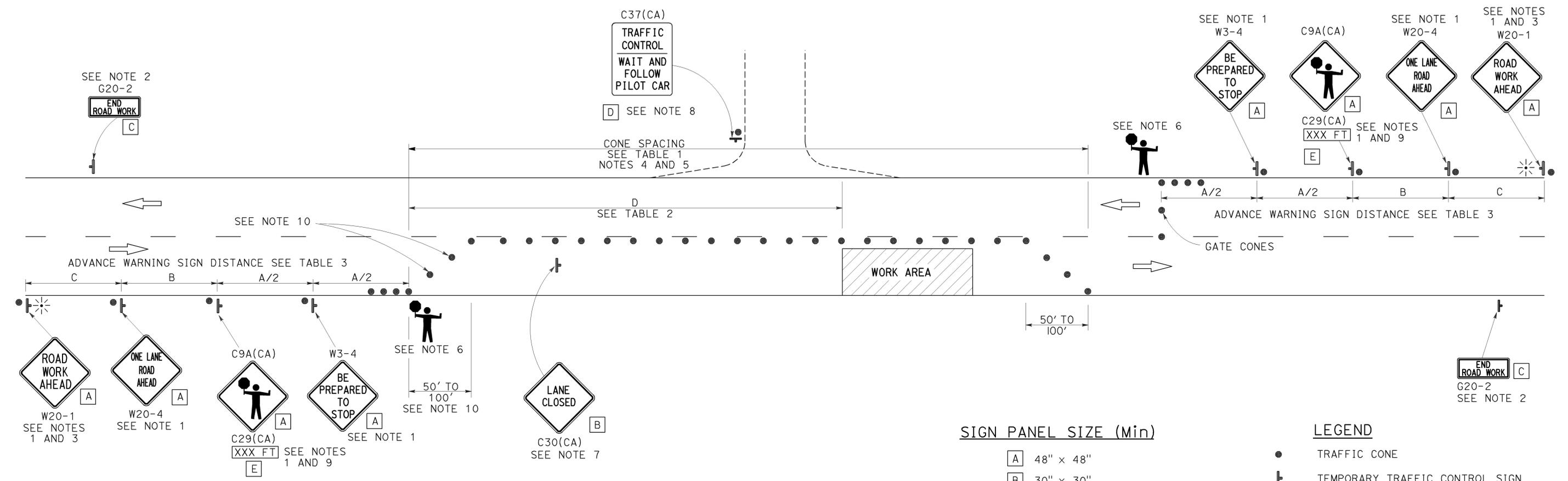
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 8-12-13



NOTES:

- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 20" x 7"

LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ PORTABLE FLASHING BEACON
- 👤 FLAGGER

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 TWO LANE CONVENTIONAL
 HIGHWAYS**

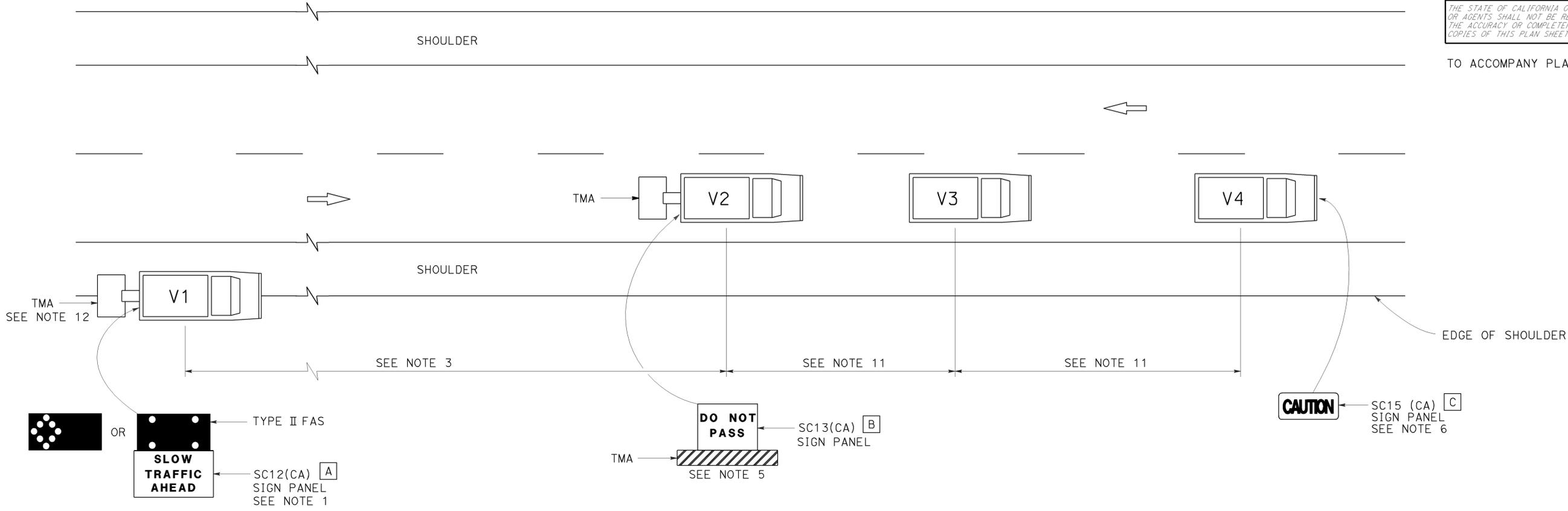
NO SCALE

RSP T13 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T13
 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

TO ACCOMPANY PLANS DATED 8-12-13



NOTES:

1. Either a changeable message sign or a SC12(CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "CAUTION" message first, follow by the "SLOW TRAFFIC AHEAD" message. A Type II flashing arrow sign may be used with the SC12(CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Shadow vehicle shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.

7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Revised Standard Plan T13) for this condition.
11. Minimize spacing between vehicles V2 and V3 and vehicles V3 and V4 to deter road users from driving in between them.
12. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- V4 SIGN VEHICLE
- TMA TRUCK-MOUNTED ATTENUATOR
- FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE
- FLASHING ARROW SIGN (FAS) IN ALTERNATING DIAMOND CAUTION

SIGN PANEL SIZE (Min)

- A 72" x 42"
- B 54" x 42"
- C 54" x 24"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON TWO LANE HIGHWAYS**
 NO SCALE

RSP T17 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T17
 DATED MAY 20, 2011 - PAGE 245 OF THE STANDARD PLANS BOOK DATED 2010.

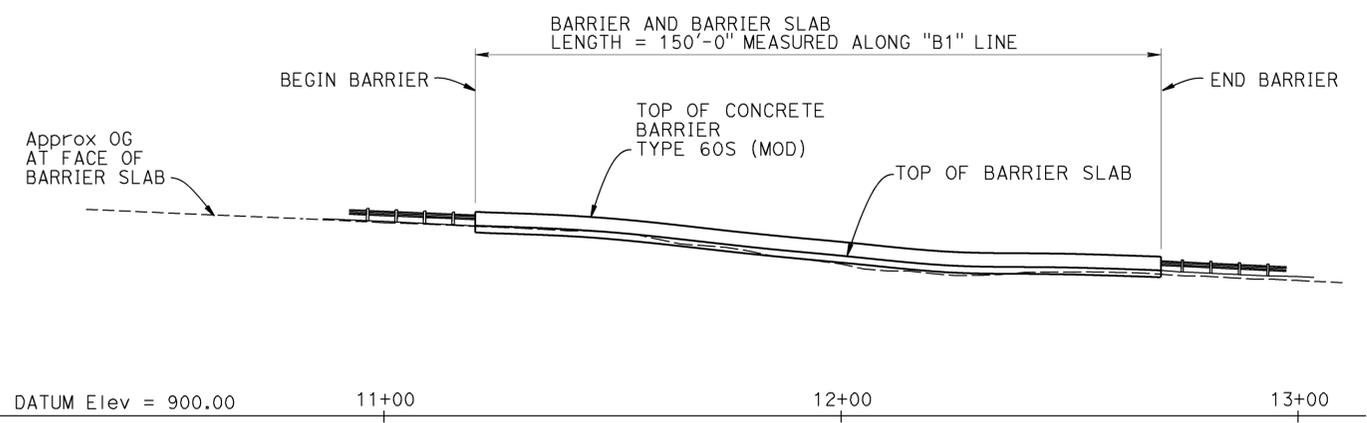
REVISED STANDARD PLAN RSP T17

2010 REVISED STANDARD PLAN RSP T17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	36	43

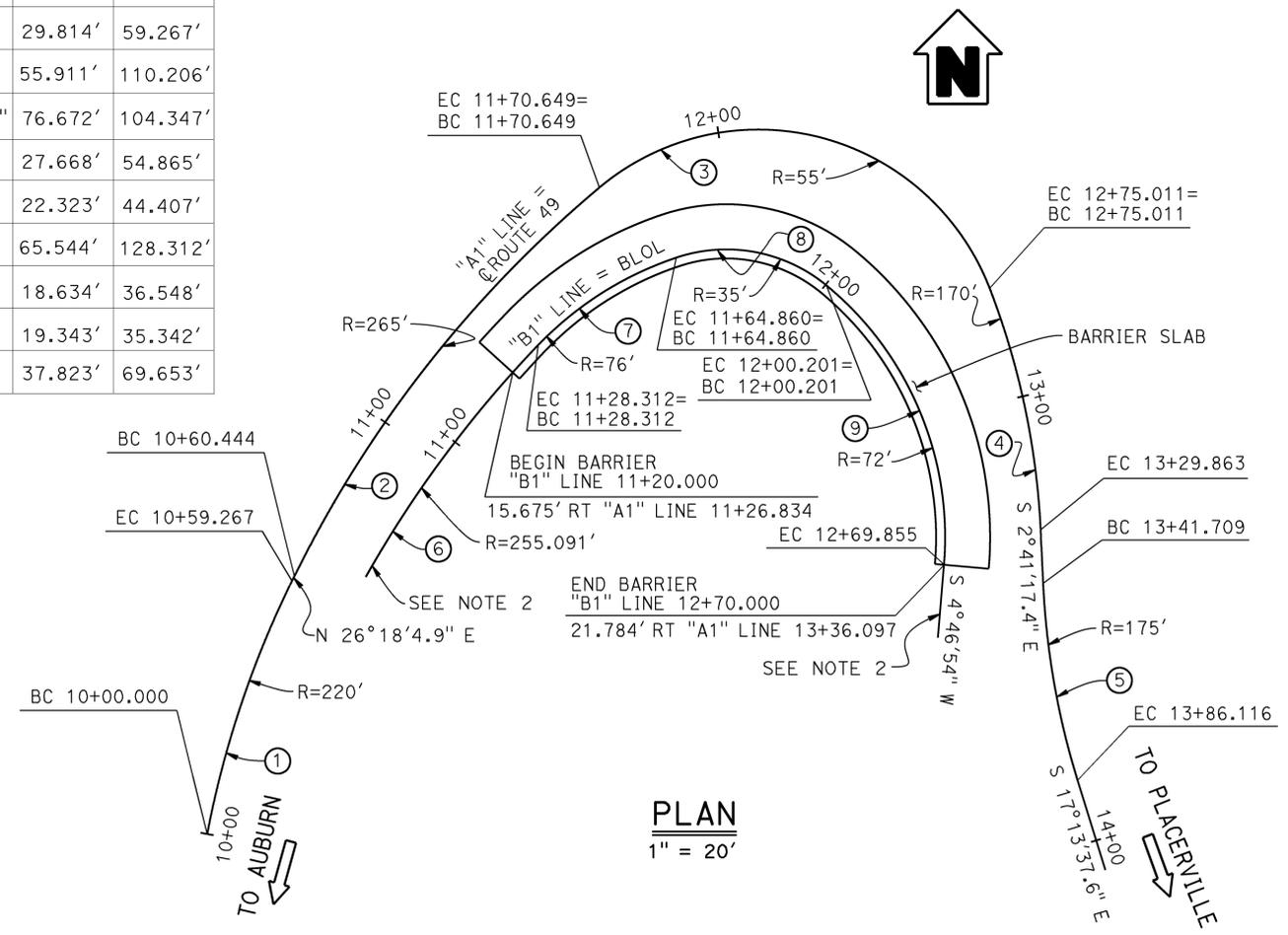
Henry P. Fang 6-18-13
 REGISTERED CIVIL ENGINEER DATE
 8-12-13
 PLANS APPROVAL DATE
 Henry Fang
 No. C56541
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA
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- NOTES:
1. MBGR, SEE "ROAD PLANS"
 2. FOR BARRIER SLAB DETAIL, SEE "BARRIER SLAB DETAIL" SHEET

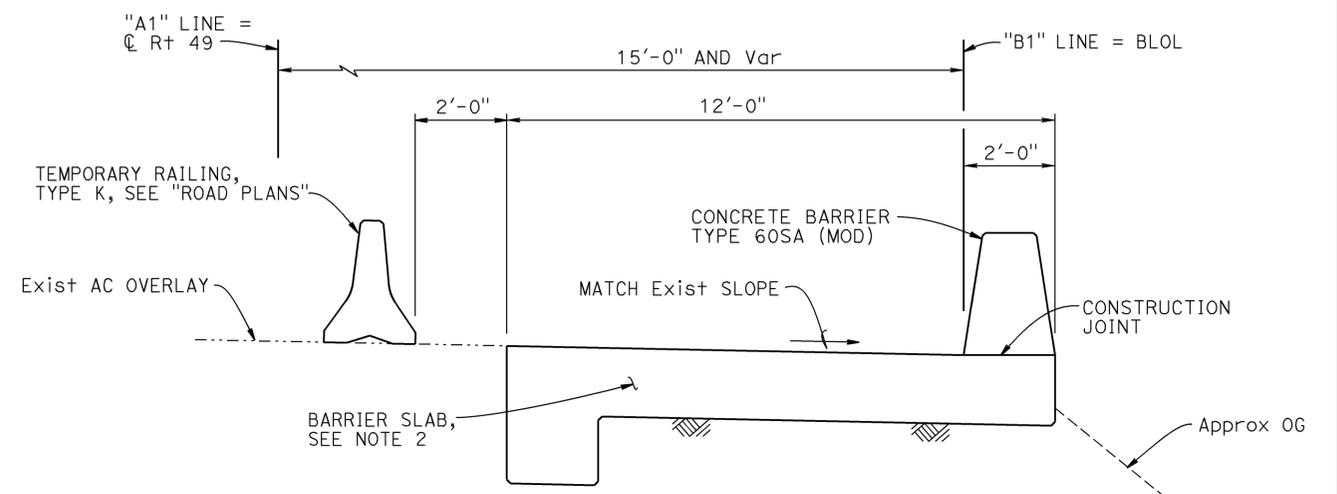


DEVELOPED ELEVATION
1" = 20'

CURVE DATA				
NO.	R	Δ	T	L
①	220.000'	15°26'6.8"	29.814'	59.267'
②	265.000'	23°49'39.5"	55.911'	110.206'
③	55.000'	108°41'34.4"	76.672'	104.347'
④	170.000'	18°29'18.0"	27.668'	54.865'
⑤	175.000'	14°32'0.5"	22.323'	44.407'
⑥	255.091'	28°49'12.3"	65.544'	128.312'
⑦	76.000'	27°33'11.3"	18.634'	36.548'
⑧	35.000'	57°51'17.8"	19.343'	35.342'
⑨	72.000'	55°25'41.6"	37.823'	69.653'



PLAN
1" = 20'



TYPICAL SECTION
1/2" = 1'-0'

QUANTITIES

STRUCTURAL CONCRETE, BARRIER SLAB	117	CY
CONCRETE BARRIER TYPE 60SA MODIFIED	150	LF

INDEX TO PLANS

1. GENERAL PLAN
2. BARRIER SLAB DETAILS

STANDARD PLANS DATED MAY 2010

A10A	ACRONYMS AND ABBREVIATIONS (A-L)
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)
A76G	CONCRETE BARRIER TYPE 60S

DESIGN ENGINEER

DESIGN	BY H. Fang	CHECKED J. Lee	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY E. Montevirgen	CHECKED J. Lee	LAYOUT	BY H. Fang
QUANTITIES	BY H. Fang	CHECKED R. Washington	SPECIFICATIONS	BY

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **2**

BRIDGE NO. X
 POST MILE 0.9
LOCATION 1 CONCRETE BARRIER TYPE 60SA
GENERAL PLAN

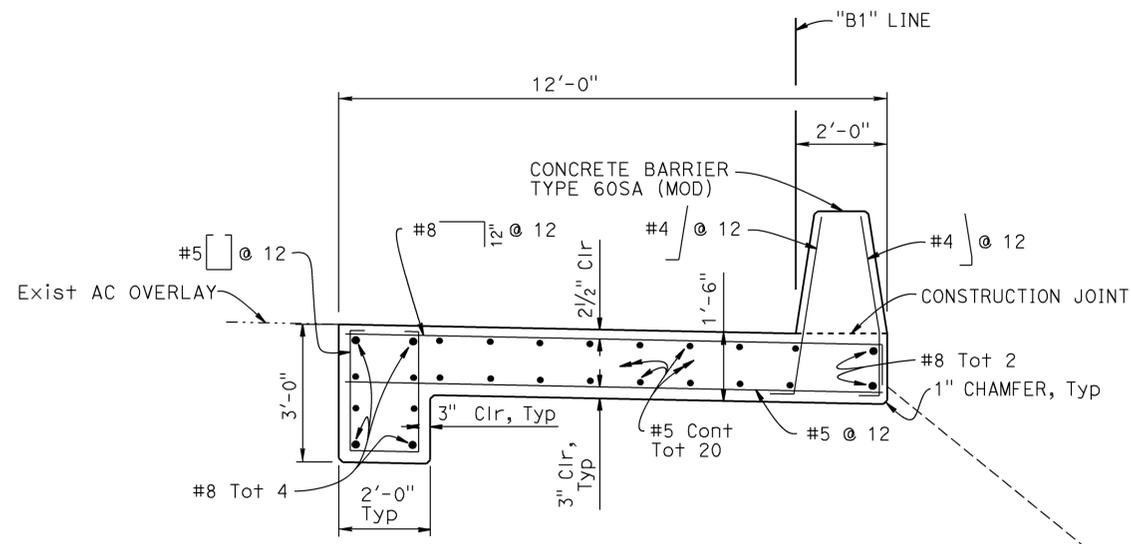
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	37	43

<i>Henry P. Fang</i>	6-18-13
REGISTERED CIVIL ENGINEER	DATE

8-12-13
PLANS APPROVAL DATE

Henry Fang
No. C56541
Exp. 6-30-13
CIVIL

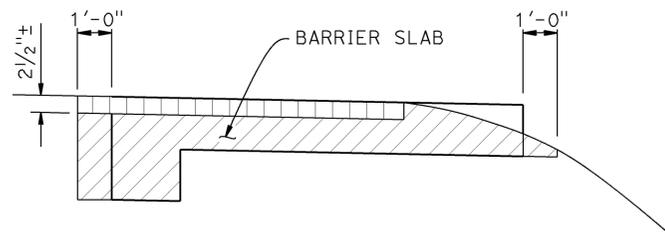
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



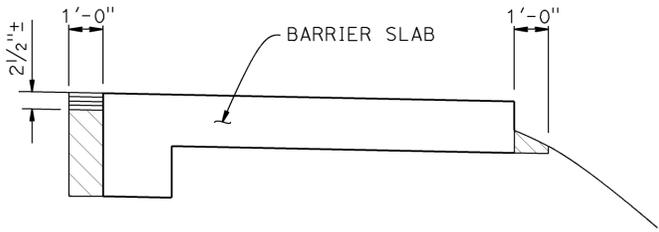
TYPICAL SECTION
1/2" = 1'-0"

GENERAL NOTES

- DESIGN:**
Caltrans Bridge Design Specifications
April 2003 (LFD)
- REINFORCED CONCRETE:**
f_y = 60,000 psi
f'_c = 3,600 psi
n = 9
- TRANSVERSE DECK SLAB (WORKING STRESS DESIGN):**
f_y = 20,000 psi
f'_c = 1,200 psi
n = 10



LIMITS OF STRUCTURE EXCAVATION
3/8" = 1'-0"



LIMITS OF STRUCTURE BACKFILL
3/8" = 1'-0"

- INDICATES STRUCTURE EXCAVATION
- INDICATES STRUCTURE BACKFILL
- INDICATES ROADWAY EXCAVATION (SEE "ROAD PLAN")
- INDICATES ROADWAY BACKFILL (SEE "ROAD PLAN")

NOTES:

- ALL REINFORCEMENT TO BE EPOXY COATED STEEL REINFORCING BARS.
- FOR OTHER DETAILS AND INFORMATION FOR CONCRETE BARRIER TYPE 60S, SEE A76G.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DESIGN</td> <td style="width: 33%;">BY H. Fang</td> <td style="width: 33%;">CHECKED J. Lee</td> </tr> <tr> <td>DETAILS</td> <td>BY E. Montevirgen</td> <td>CHECKED J. Lee</td> </tr> <tr> <td>QUANTITIES</td> <td>BY H. Fang</td> <td>CHECKED R. Washington</td> </tr> </table>	DESIGN	BY H. Fang	CHECKED J. Lee	DETAILS	BY E. Montevirgen	CHECKED J. Lee	QUANTITIES	BY H. Fang	CHECKED R. Washington	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 2	BRIDGE NO. X POST MILE 0.9	LOCATION 1 CONCRETE BARRIER TYPE 60SA BARRIER SLAB DETAILS
DESIGN	BY H. Fang	CHECKED J. Lee											
DETAILS	BY E. Montevirgen	CHECKED J. Lee											
QUANTITIES	BY H. Fang	CHECKED R. Washington											
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3577 PROJECT NUMBER & PHASE: 0312000283									
		CONTRACT NO.: 03-3F410		DISREGARD PRINTS BEARING EARLIER REVISION DATES									
				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>3-06-13</td> <td>2</td> <td>2</td> </tr> </table>	REVISION DATES	SHEET	OF	3-06-13	2	2			
REVISION DATES	SHEET	OF											
3-06-13	2	2											

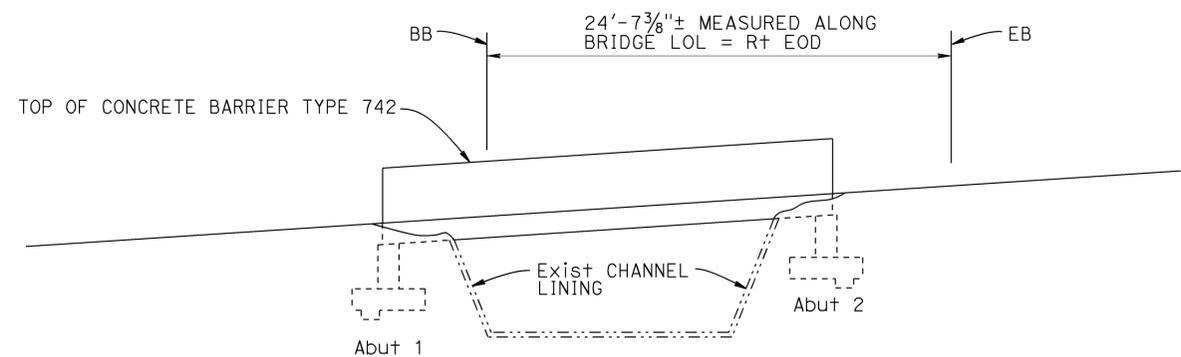
USERNAME => s122821 DATE PLOTTED => 07-AUG-2013 TIME PLOTTED => 1:53:31

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	38	43

Henry P. Fang 6-18-13
 REGISTERED CIVIL ENGINEER DATE
 8-12-13
 PLANS APPROVAL DATE
 Henry Fang
 No. C56541
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

SPREAD FOOTING DATA

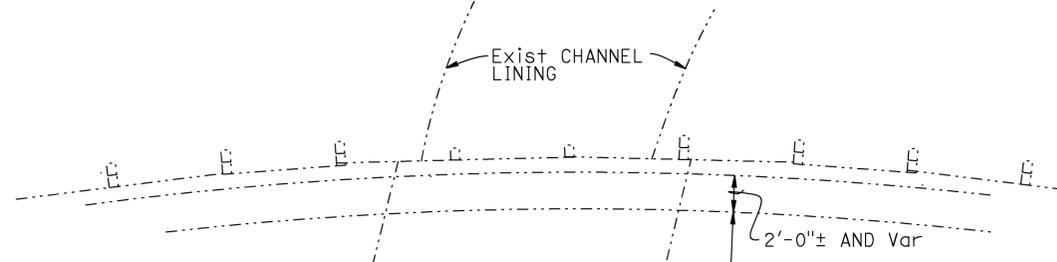
LOCATION	BOTTOM OF FOOTING Elev	ALLOWABLE SOIL BEARING PRESSURE	NOMINAL BEARING RESISTANCE (q _n) (ksf)
Abut 1	878.50'	3.0 ksf	N/A
Abut 2	880.60'	2.7 ksf	N/A



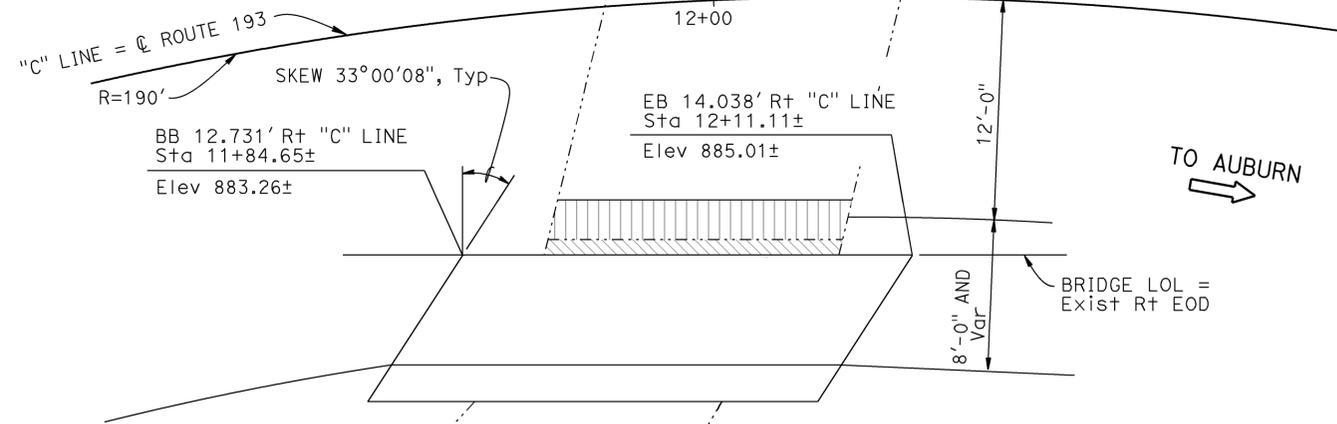
DATUM Elev 872.00

ELEVATION

1" = 5'-0"



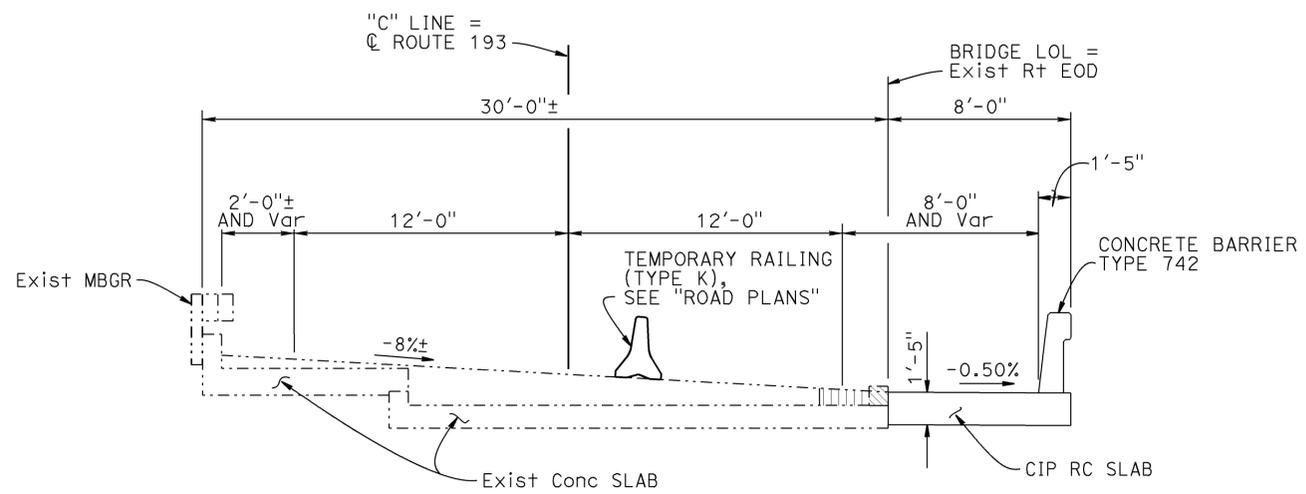
TO LINCOLN



PLAN

1" = 5'-0"

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



TYPICAL SECTION

1/4" = 1'-0"

LEGEND:

- = Indicates Exist Structure
- [Hatched Box] = Indicates Bridge Removal (Portion)
- [Striped Box] = Indicates limits of Exist AC Overlay to be removed, see "Road Plans" for details

INDEX TO PLANS

1. GENERAL PLAN
2. FOUNDATION PLAN
3. ABUTMENT DETAILS
4. TYPICAL SECTION AND DECK REINFORCEMENT
5. LOG OF TEST BORINGS 1 OF 2
6. LOG OF TEST BORINGS 2 OF 2

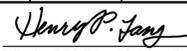
STANDARD PLANS DATED MAY 2010

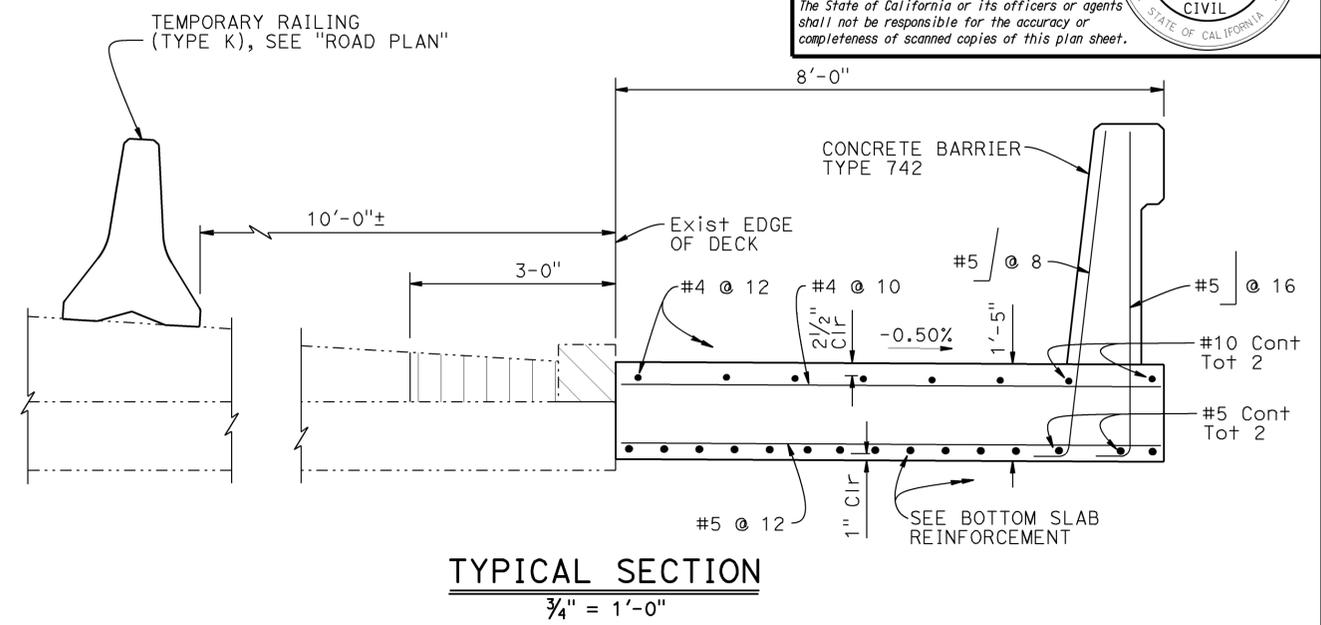
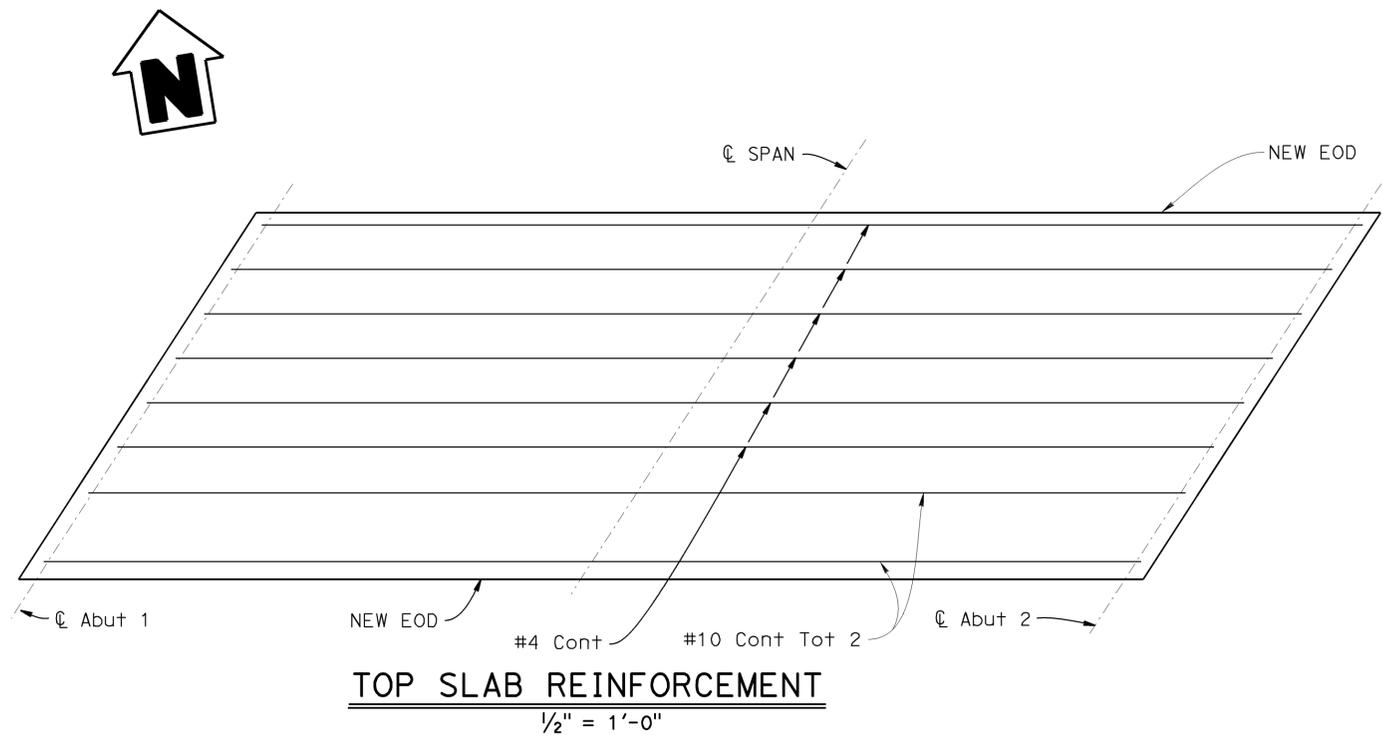
- A10A ACRONYMS AND ABBREVIATIONS (A-L)
- A10B ACRONYMS AND ABBREVIATIONS (M-Z)
- B11-57 CONCRETE BARRIER TYPE 742

QUANTITIES

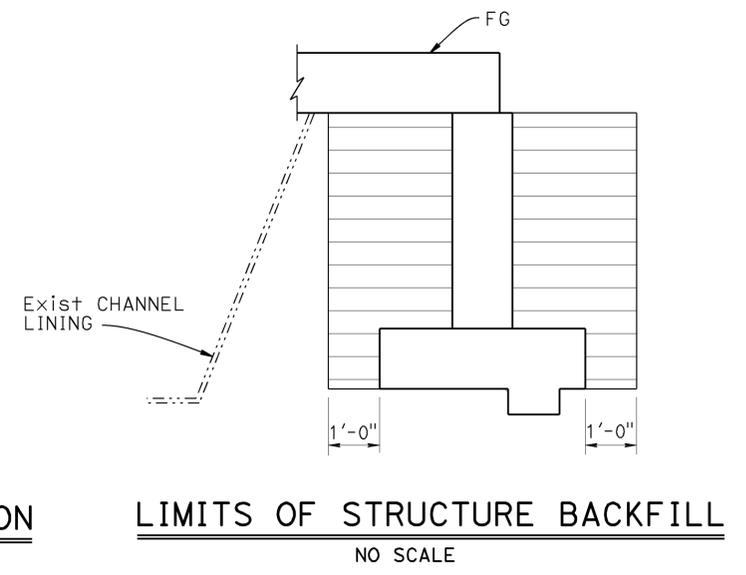
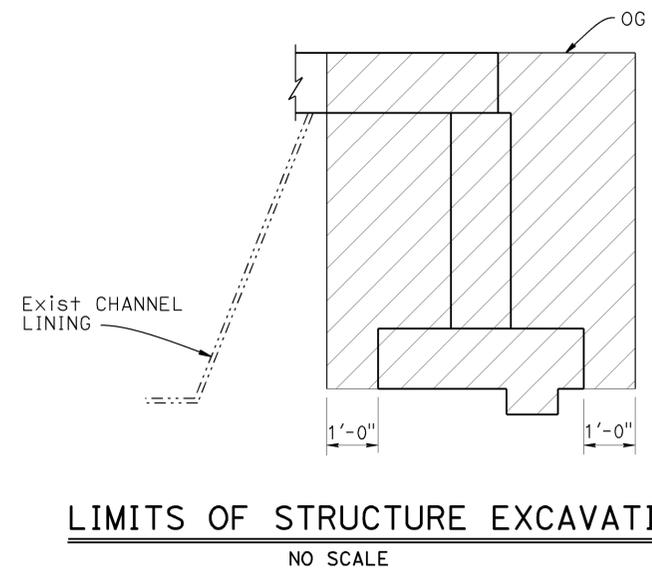
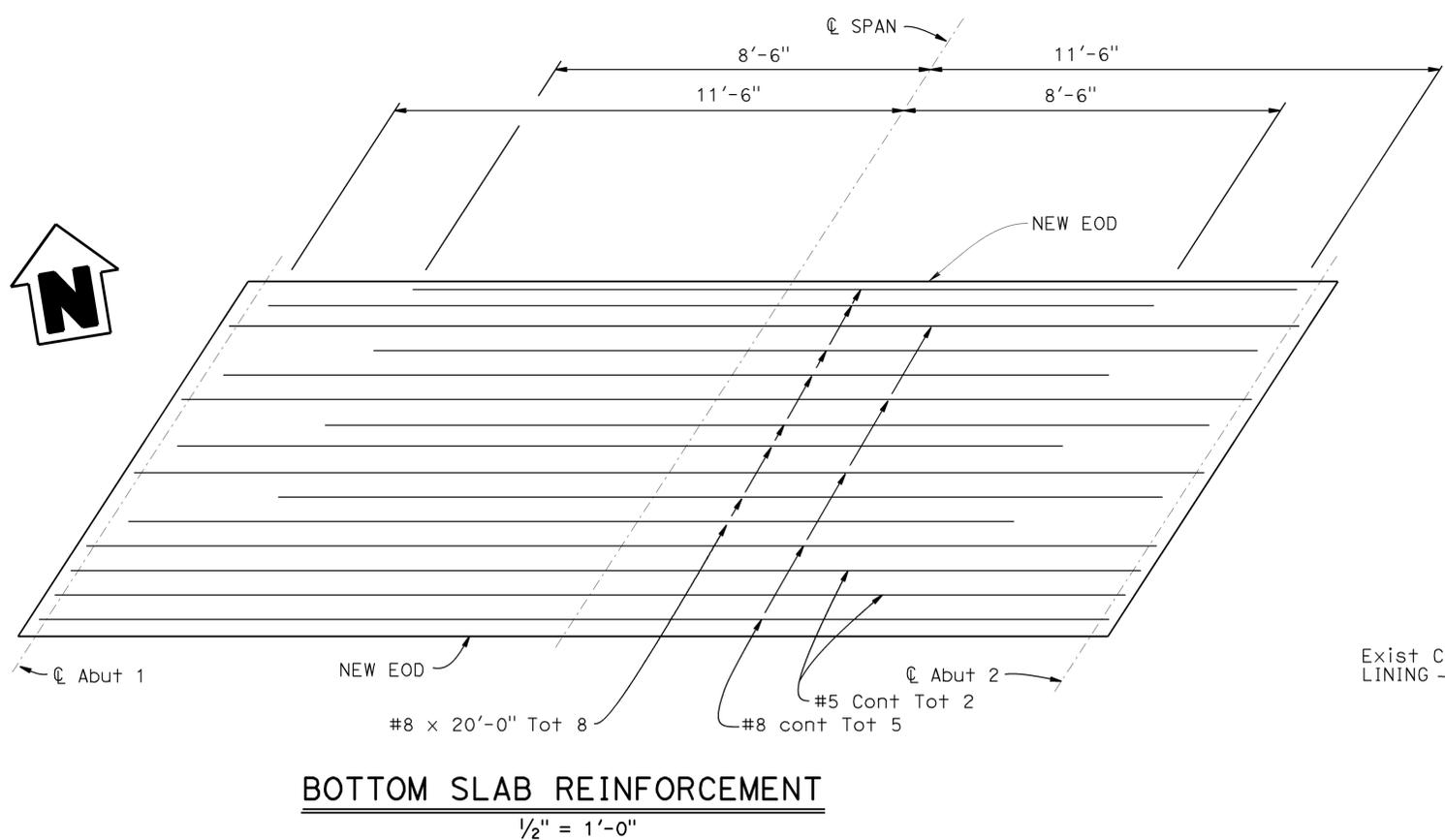
	LUMP SUM
BRIDGE REMOVAL (PORTION)	26 CY
STRUCTURE EXCAVATION (TYPE D)	18 CY
STRUCTURE BACKFILL (BRIDGE)	5 CY
STRUCTURAL CONCRETE, BRIDGE FOOTING	14 CY
STRUCTURAL CONCRETE, BRIDGE	2,565 LB
BAR REINFORCING STEEL (BRIDGE)	25 LF
CONCRETE BARRIER (TYPE 742)	

 DESIGN ENGINEER	DESIGN	BY H. Fang	CHECKED J. Lee	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 2	BRIDGE NO.	19-0069	LOCATION 2: DUTCH RAVINE CANAL (WIDEN) GENERAL PLAN	
	DETAILS	BY E. Montevirgen	CHECKED J. Lee	LAYOUT	BY H. Fang		CHECKED J. Lee	POST MILE		9.40
	QUANTITIES	BY H. Fang	CHECKED J. Lee	SPECIFICATIONS	BY		PLANS AND SPECS COMPARED			

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	41	43
 REGISTERED CIVIL ENGINEER			6-18-13 DATE		
8-12-13 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>					



- LEGEND:
-  Indicates Exist Structure
 -  Indicates Bridge Removal (Portion)
 -  Indicates Structure Excavation, Type D
 -  Indicates Structure Backfill
 -  Indicates limits of Exist AC Overlay to be removed and replaced, see "Road Plans" for details



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

DESIGN	BY H. Fang	CHECKED J. Lee
DETAILS	BY E. Montevirgen	CHECKED J. Lee
QUANTITIES	BY H. Fang	CHECKED J. Lee

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 2

BRIDGE NO.	19-0069
POST MILE	9.40

LOCATION 2: DUTCH RAVINE CANAL (WIDEN)
TYPICAL SECTION AND DECK REINFORCEMENT

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	49,80,193	Var	42	43

REGISTERED CIVIL ENGINEER	8-1-13	DATE
8-12-13		
PLANS APPROVAL DATE		

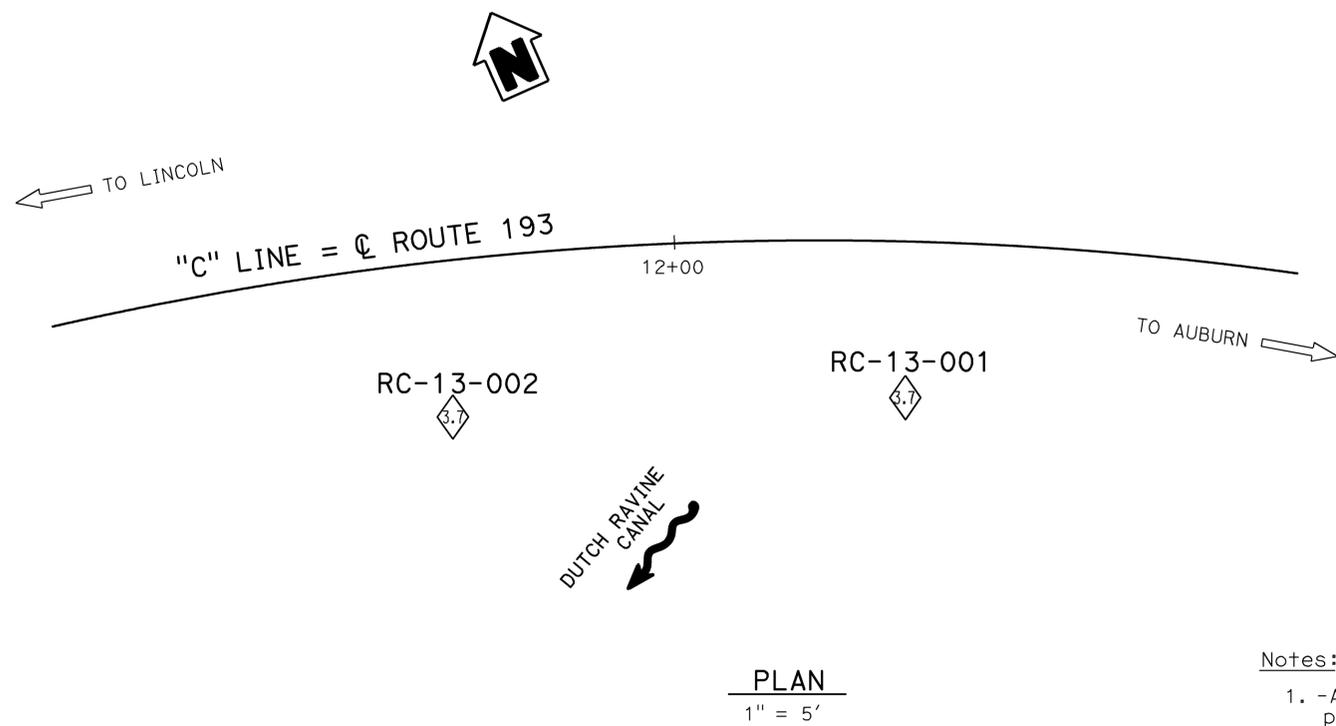
REGISTERED PROFESSIONAL ENGINEER
 Qiang Huang
 No. C55671
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

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This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).
 See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

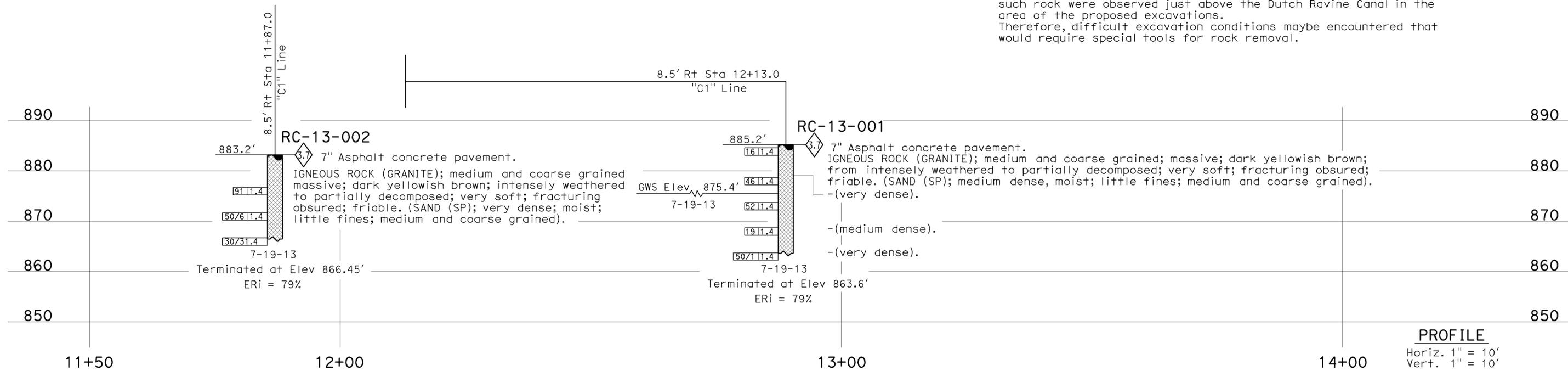
BENCH MARK

Survey control: CM 940
 Fnd 5/8" rebar
 11.72' Lt "C1" Line @ Rte 193
 Sta 11+53.93
 N 2,083,072.81
 E 6,807,463.37
 Elev = 882.07
 Datum: NAVD88



Notes:

- After completion of drilling Boring RC-13-001, the boring was pumped dry (drilling fluids removed). Subsequently, two groundwater readings were made, the first approximately one hour after the boring was pumped and the second reading taken one hour after the first reading. The results were as follows:
 Reading No. 1: depth 9.45 ft (elevation 875.75')
 Reading No. 2: depth 9.80 ft (elevation 875.4')
 The boring depth was 21.6 ft (elevation 863.6')
 -Groundwater was not measured in Boring RC-13-002.
- Hard fresh granite was not encountered in the borings (The borings were located just outside the foot print of the proposed excavation for the bridge abutments). However, large boulder size zones of such rock were observed just above the Dutch Ravine Canal in the area of the proposed excavations. Therefore, difficult excavation conditions maybe encountered that would require special tools for rock removal.

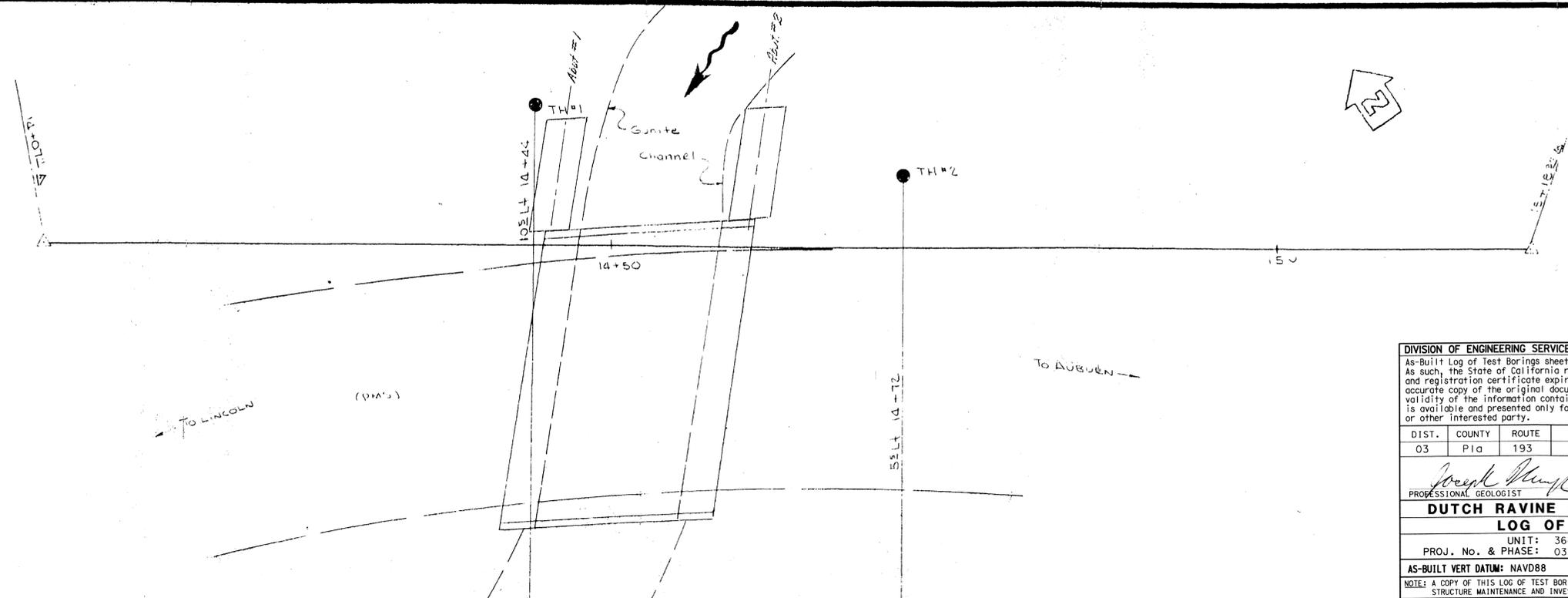


ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		LOCATION 2:DUTCH RAVINE CANAL BRIDGE (WIDEN)	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen		FIELD INVESTIGATION BY:		DEPARTMENT OF TRANSPORTATION		19-0069		LOG OF TEST BORINGS 1 OF 2	
NAME: R. Bibbens		CHECKED BY: J. Kaump		B. Bertucci		DESIGN BRANCH X		POST MILE			
								9.4			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		UNIT: 3643		PROJECT NUMBER & PHASE: 03120002831		CONTRACT NO.: 03-3F4104	
						DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET OF	
								1-25-13 1-27-13 08-01-13		5 6	

USERNAME => s1222821 DATE PLOTTED => 07-AUG-2013 TIME PLOTTED => 13:41

DATE APPROVED: January 22, 1964

Sheet 5 of 5 Bridge Plans



DIVISION OF ENGINEERING SERVICES - MATERIALS AND GEOTECHNICAL SERVICES

As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirm that this is a true and accurate copy of the original document. It does not attest to the accuracy or validity of the information contained in the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.

DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	Sheet No.	Total Sheets
03	Pla	193	Var	43	43

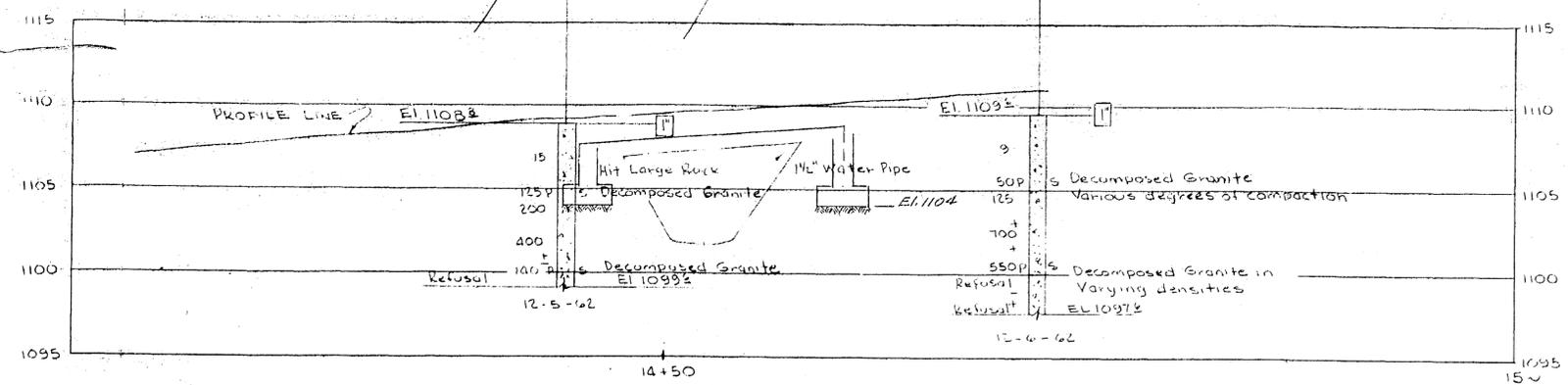
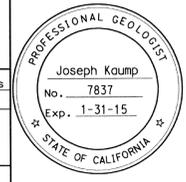
Professional Geologist: Joseph Kaump DATE: 2/21/13

DUTCH RAVINE CANAL BRIDGE (WIDEN)
LOG OF TEST BORINGS

UNIT: 3643	CONTRACT No.:	BRIDGE No.:
PROJ. No. & PHASE: 0312000283	03-3F4101	19-0069

AS-BUILT VERT DATUM: NAVD88 CONVERSION: -224.43 Sheet of

NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA 6 6



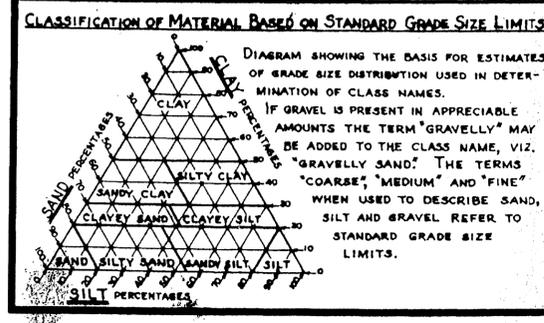
BM #2
Circled 'x' @ SW cor
of 21' x 21' 14+42
EL 1108.15

Revisions made to this Log of Test Borings from the original As-Built Log of Test Borings are the addition of the following table and note:

Boring	Station	Offset from @ Rte 193
TH-1	11+94	20.5 ft Left
TH-2	12+13	14.5 ft Left

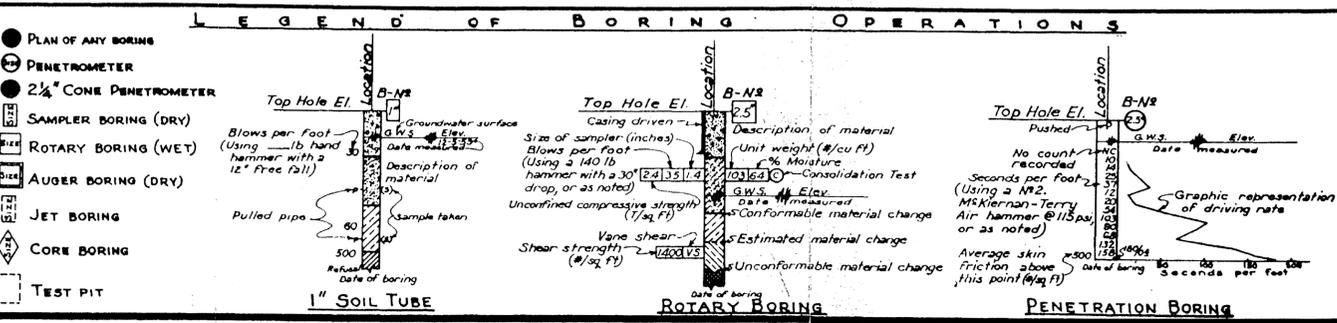
Note:
The data are the As-Built Test Borings referenced to the proposed new structure location. This table is presented on the As-Built Log of Test Boring sheet for the convenience of any bidder, contractor or other interested party.

Paul E. Warty
69-31.132.14
June 15, 1964



LEGEND OF EARTH MATERIALS

GRAVEL	SILTY CLAY OR CLAYEY SILT
SAND	PEAT AND/OR ORGANIC MATTER
SILT	FILL MATERIAL
CLAY	IGNEOUS ROCK
SANDY CLAY OR CLAYEY SAND	SEDIMENTARY ROCK
SANDY SILT OR SILTY SAND	METAMORPHIC ROCK



NOTE

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DUTCH RAVINE CANAL

LOG OF TEST BORINGS

SCALE VERT 1"=5'
BRIDGE 19-69
FILE
DRAWING C-1969-5

BRIDGE DEPARTMENT