

INDEX OF PLANS

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1	TITLE AND LOCATION MAP
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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
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN INYO COUNTY NEAR INDEPENDENCE
FROM 0.3 MILE NORTH OF SHABBELL LANE
TO FORT INDEPENDENCE ROAD

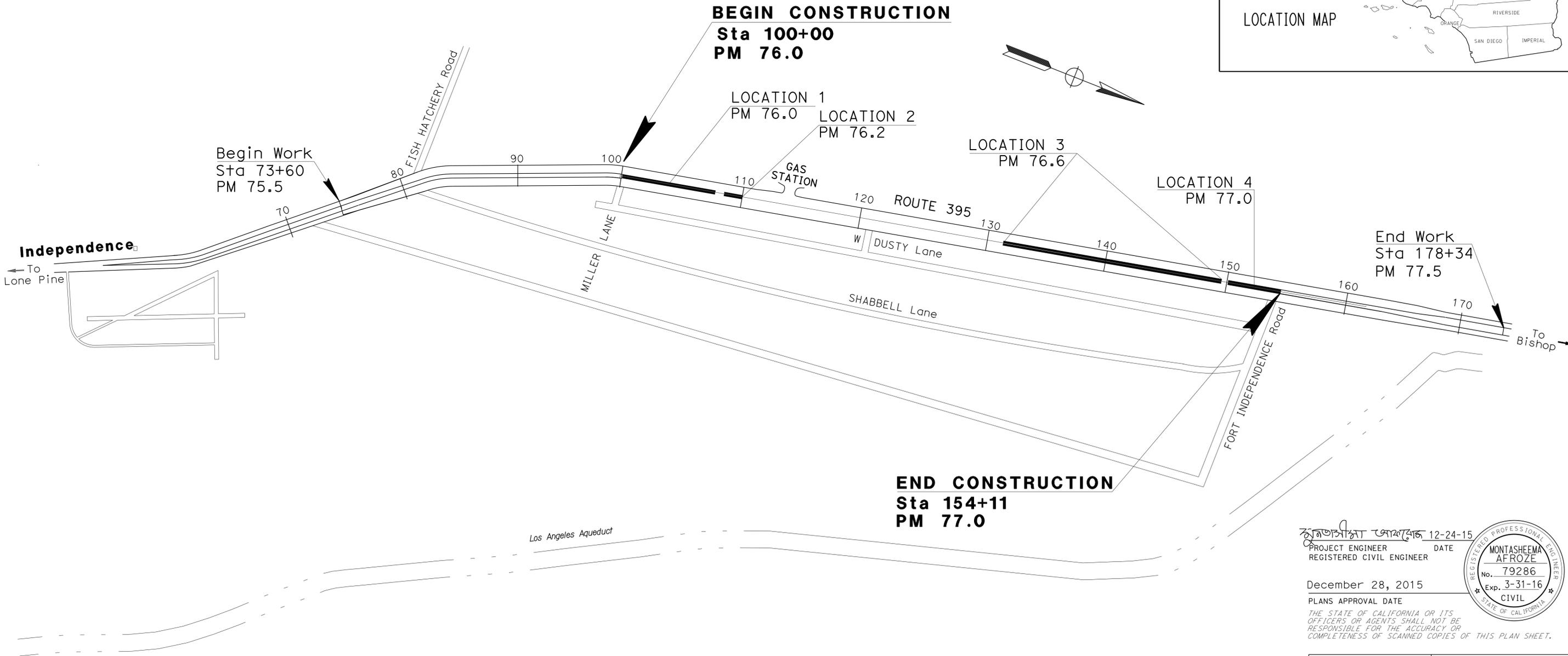
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	76.0/77.0	1	16





LOCATION MAP



END CONSTRUCTION
Sta 154+11
PM 77.0

12-24-15
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
 December 28, 2015
 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.

REGISTERED PROFESSIONAL ENGINEER
MONTASHEEMA AFROZE
 No. 79286
 Exp. 3-31-16
 CIVIL
 STATE OF CALIFORNIA

PROJECT MANAGER
BRIAN MCELWAIN
 DESIGN ENGINEER
JOHN FOX

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

NO SCALE

DATE PLOTTED => 07-JAN-2016 TIME PLOTTED => 16:56
 LAST REVISION 12-24-15

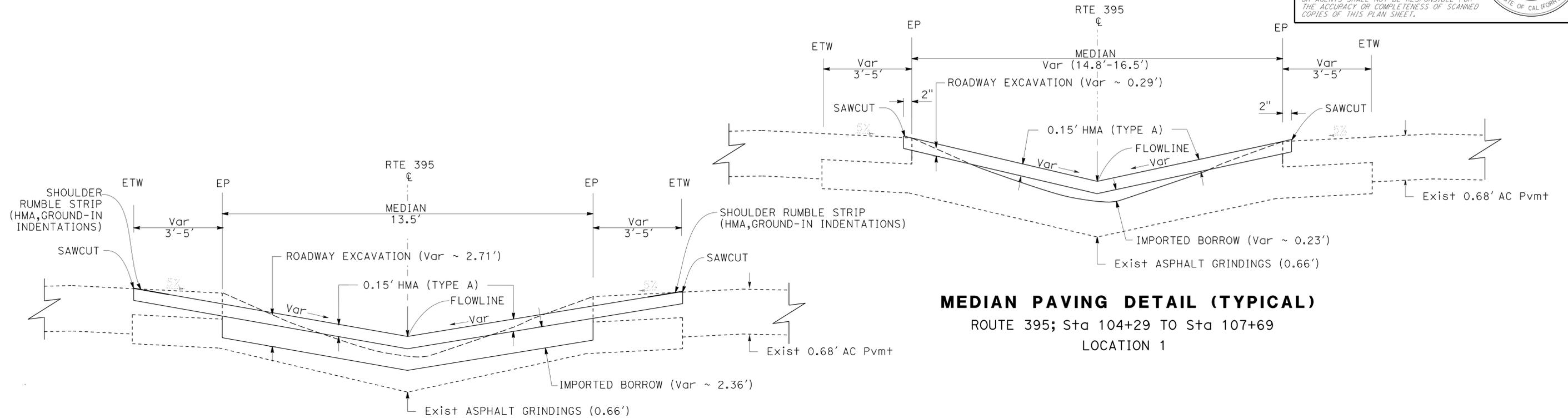
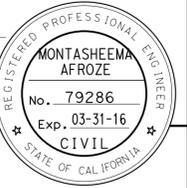
NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. STATIONING SHOWN IS FOR CONSTRUCTION PURPOSES ONLY.

PAVEMENT CLIMATE REGION

HIGH DESERT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	76.0/77.0	2	16
REGISTERED CIVIL ENGINEER			DATE	12-24-15	
REGISTERED CIVIL ENGINEER			DATE	12-23-15	
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>					

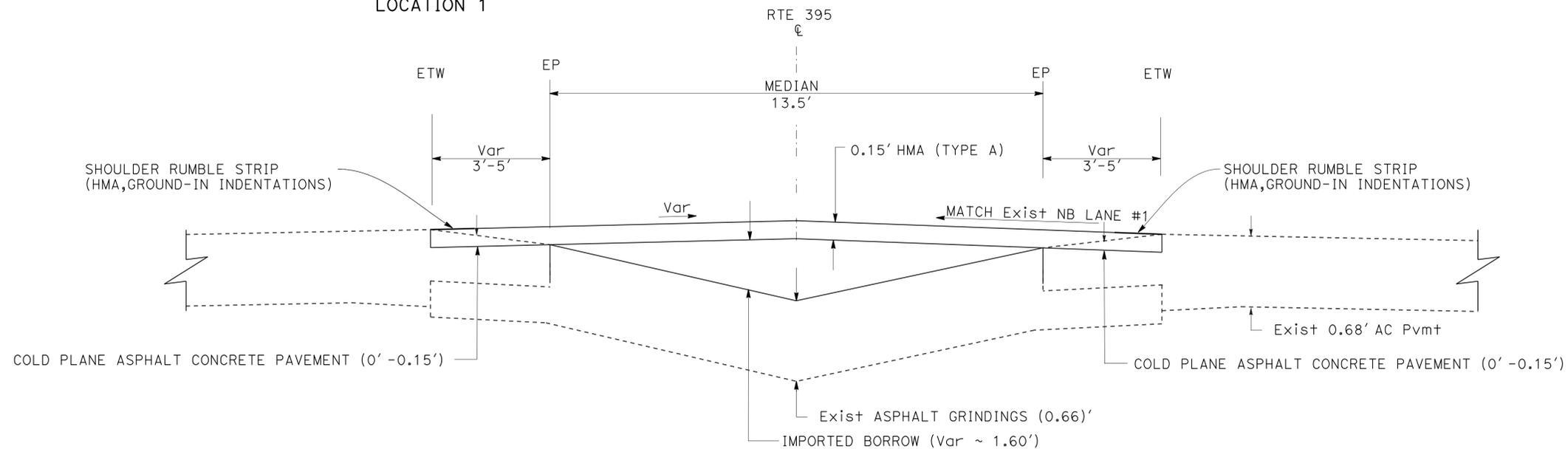


MEDIAN PAVING DETAIL (TYPICAL)

ROUTE 395; Sta 104+29 TO Sta 107+69
LOCATION 1

MEDIAN PAVING DETAIL (TYPICAL)

ROUTE 395; Sta 104+04 TO Sta 104+29
LOCATION 1



MEDIAN PAVING DETAIL (TYPICAL)

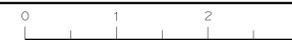
ROUTE 395; STA 100+00 TO STA 104+04
LOCATION 1

TYPICAL CROSS SECTIONS X-1

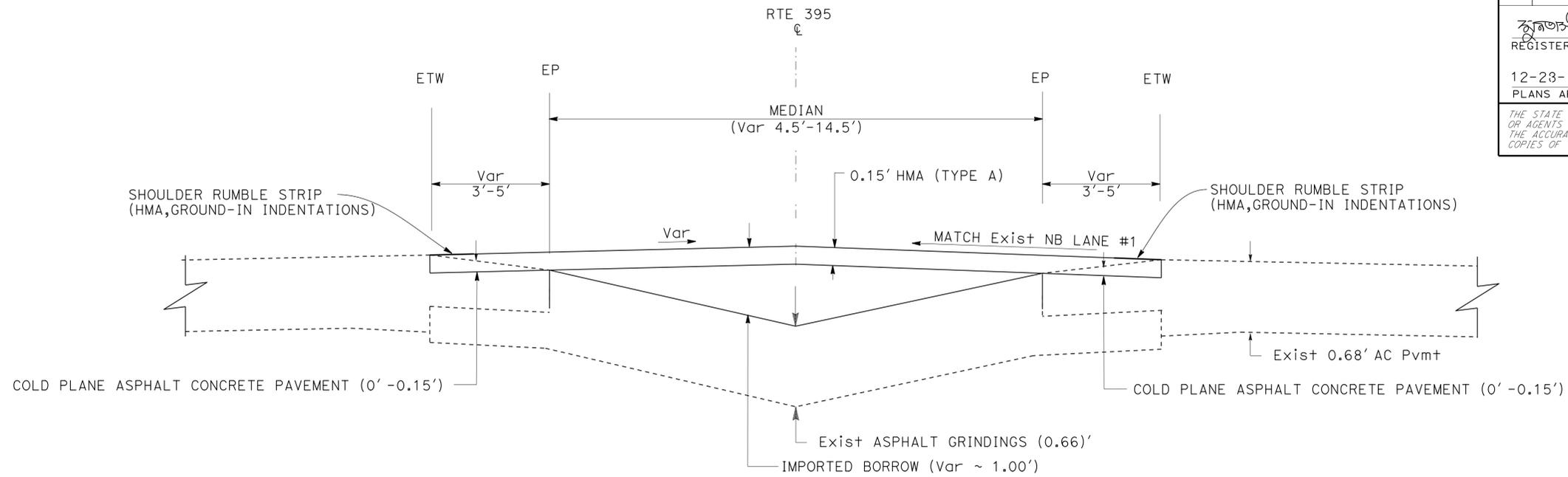
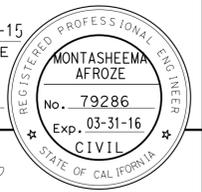
NO SCALE

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	PROJECT DELIVERY	FUNCTIONAL SUPERVISOR	JOHN FOX	CALCULATED/DESIGNED BY	CHECKED BY	REGISTERED CIVIL ENGINEER	DATE	12-24-15
Caltrans				MONTASHEEMA AFROZE	NICHOLAS SPRAGUE			

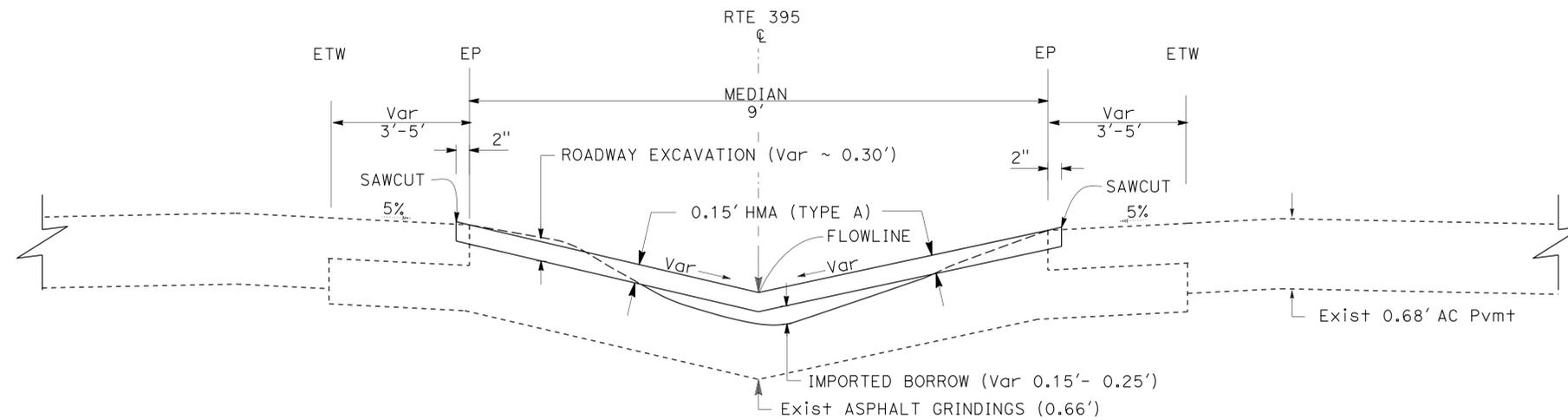


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	76.0/77.0	3	16
REGISTERED CIVIL ENGINEER 12-23-15 PLANS APPROVAL DATE			12-24-15 DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



MEDIAN PAVING DETAIL (TYPICAL)

ROUTE 395
 LOCATION 3, Sta 131+43 TO Sta 149+53
 LOCATION 4, Sta 150+19 TO Sta 154+11



MEDIAN PAVING DETAIL

ROUTE 395
 Sta 108+96 TO Sta 110+00
 LOCATION 2

TYPICAL CROSS SECTIONS X-2

NO SCALE

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans PROJECT DELIVERY	JOHN FOX	MONTASHEEMA AFROZE	12-24-15
		NICHOLAS SPRAGUE	
		REVISOR	DATE
		MA	12-24-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	76.0/77.0	4	16
REGISTERED CIVIL ENGINEER			DATE	12-24-15	
12-28-15			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.
- TEMPORARY BENCH MARK IS INDEPENDENT AT EACH LOCATION AND IS ONLY TO BE USED FOR THAT LOCATION

LEGEND:

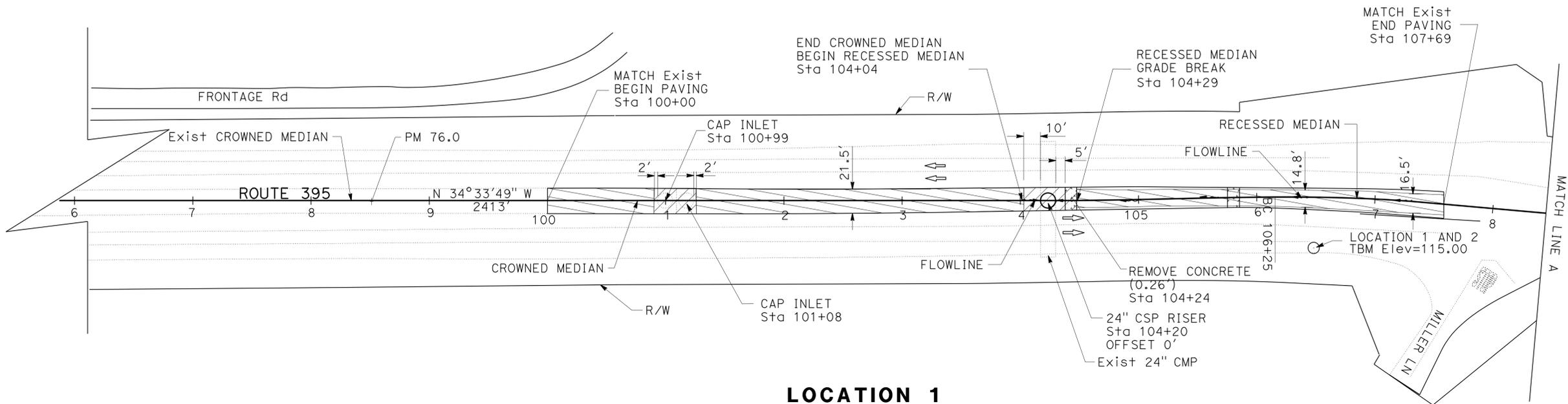
- ROADWAY EXCAVATION (0.15'-2.56')
- IMPORTED BORROW (Var 0'-2.56')
- PAVE MEDIAN WITH 0.15' HOT MIX ASPHALT (TYPE A)
- IMPORTED BORROW (Var 0'-1.60')
- PAVE MEDIAN WITH 0.15' HOT MIX ASPHALT (TYPE A)
- Exist+ MINOR CONCRETE

ABBREVIATION:

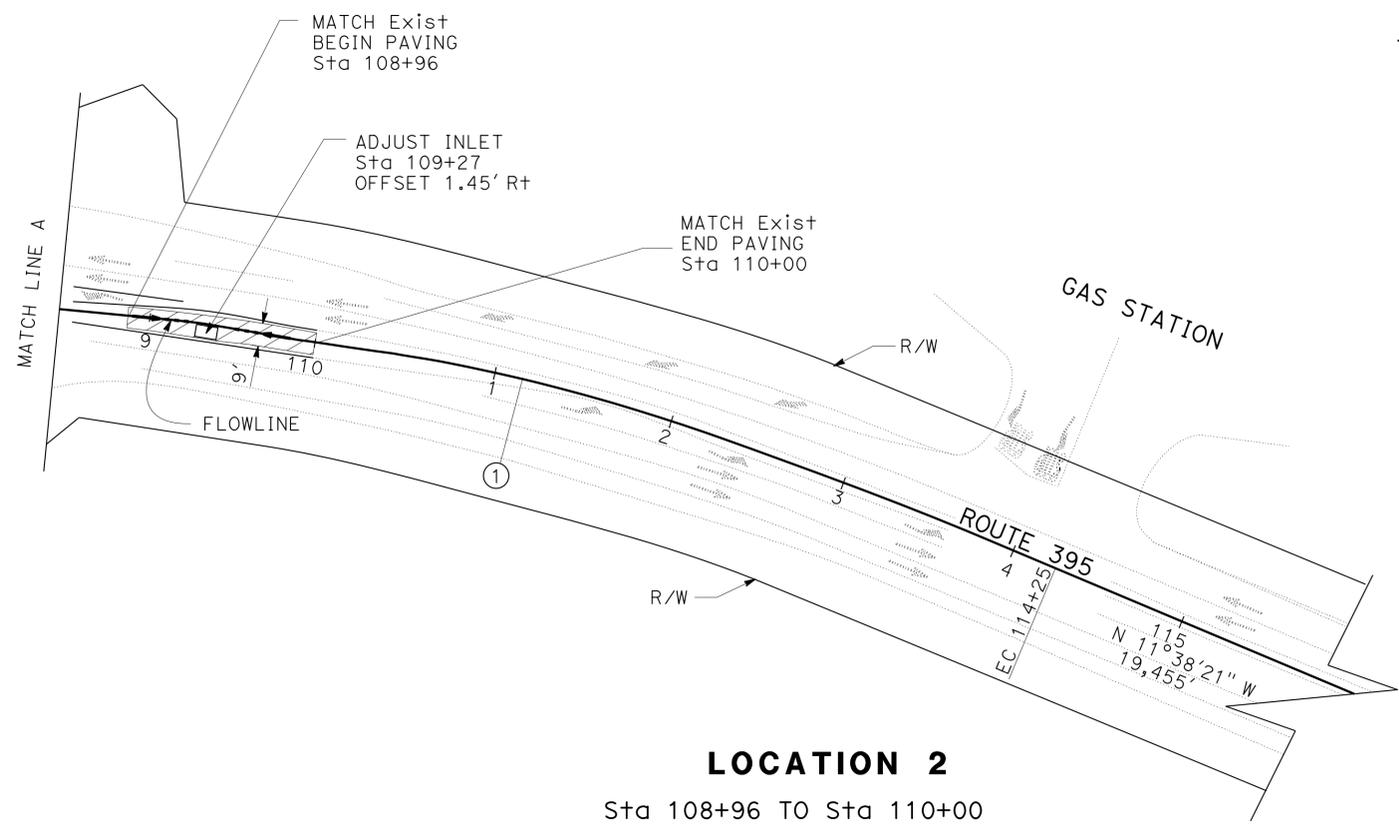
TBM- TEMPORARY BENCH MARK



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DELIVERY
 FUNCTIONAL SUPERVISOR **JOHN FOX**
 CALCULATED/DESIGNED BY
 CHECKED BY
 MONTASHEEMA AFROZE
 NICHOLAS SPRAGUE
 REVISED BY
 DATE REVISED
 MA
 12-24-15



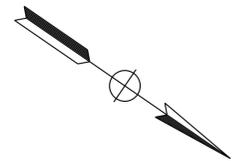
LOCATION 1
Sta 100+00 TO Sta 107+69



LOCATION 2
Sta 108+96 TO Sta 110+00

CURVE DATA

No. ①	R	Δ	T	L
①	1999'	22°55'28"	405.33'	799.80'

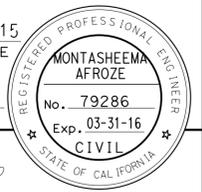


EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

LAYOUT
SCALE 1"=50' **L-1**

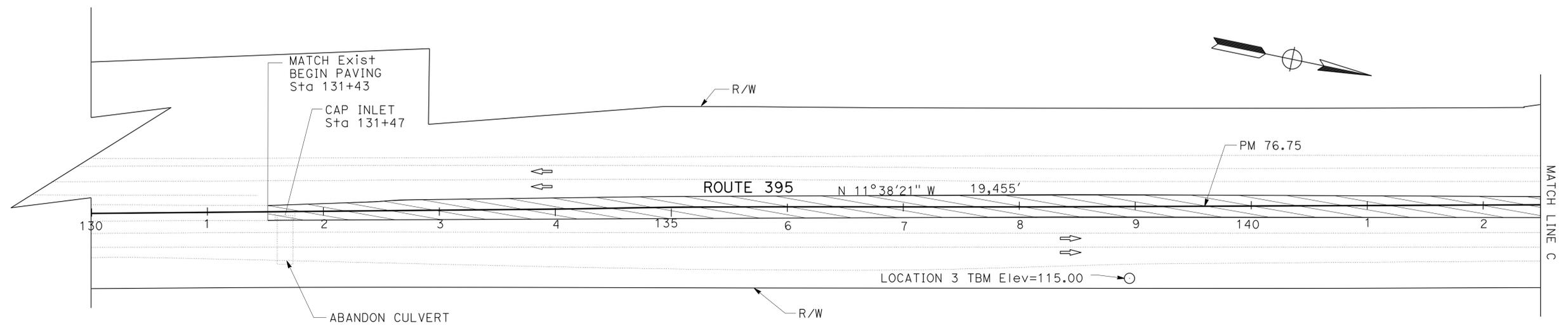
LAST REVISION | DATE PLOTTED => 07-JAN-2016
 12-24-15 | TIME PLOTTED => 17:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	76.0/77.0	5	16
12-23-15 PLANS APPROVAL DATE			12-24-15 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.					

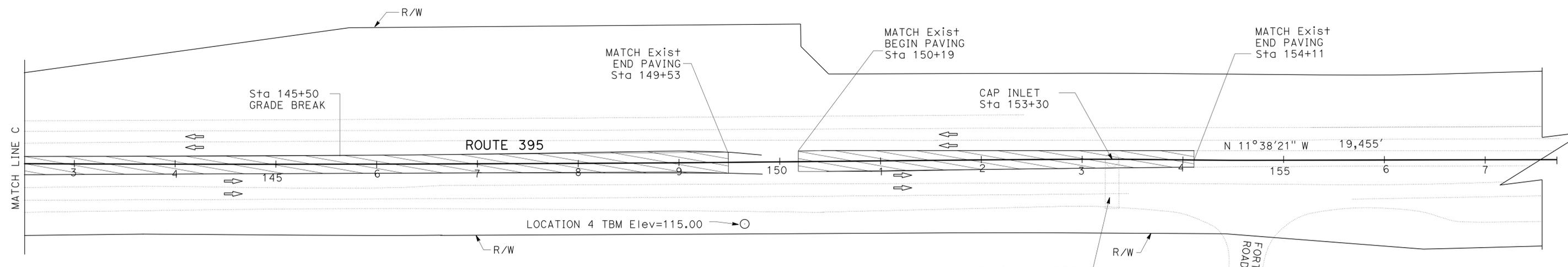


NOTE:

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



LOCATION 3
Sta 131+43 TO Sta 149+53



LOCATION 4
Sta 150+19 TO Sta 154+11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	JOHN FOX	MONTASHEEMA AFROZE	12-23-15
		NICHOLAS SPRAGUE	
PROJECT DELIVERY	CHECKED BY	DESIGNED BY	

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

LAYOUT
SCALE 1"=50' **L-2**

LAST REVISION DATE PLOTTED => 07-JAN-2016 12-24-15 TIME PLOTTED => 17:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	76.0/77.0	6	16

REGISTERED CIVIL ENGINEER DATE	12-24-15
PLANS APPROVAL DATE	12-28-15

REGISTERED PROFESSIONAL ENGINEER	MONTASHEEMA AFROZE
No.	79286
Exp.	03-31-16
CIVIL	

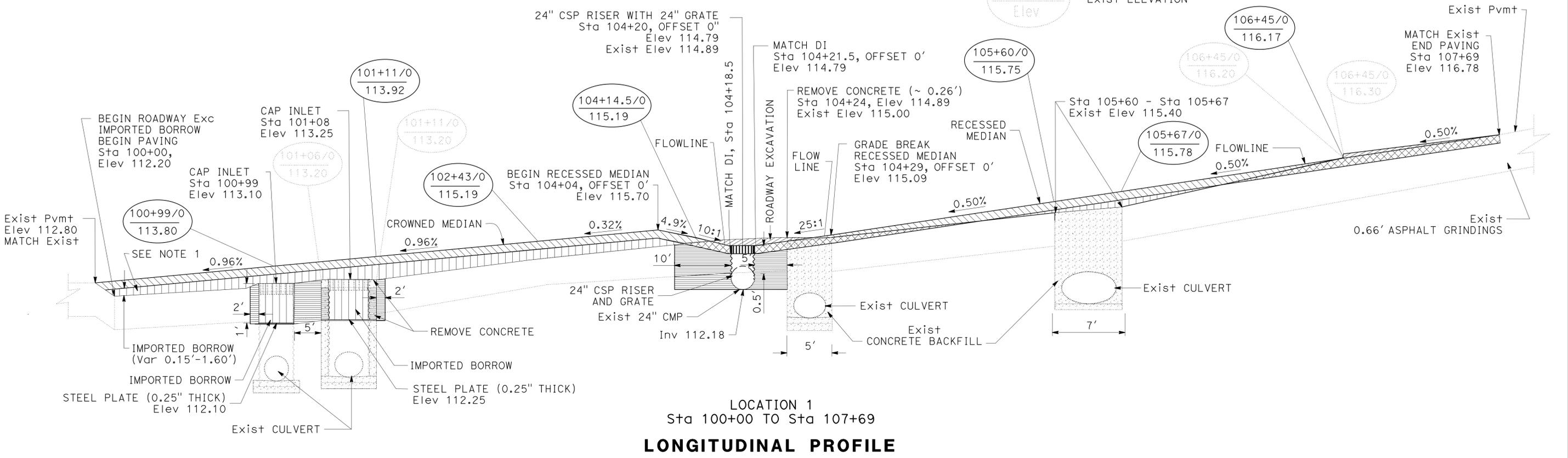
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

NOTES:

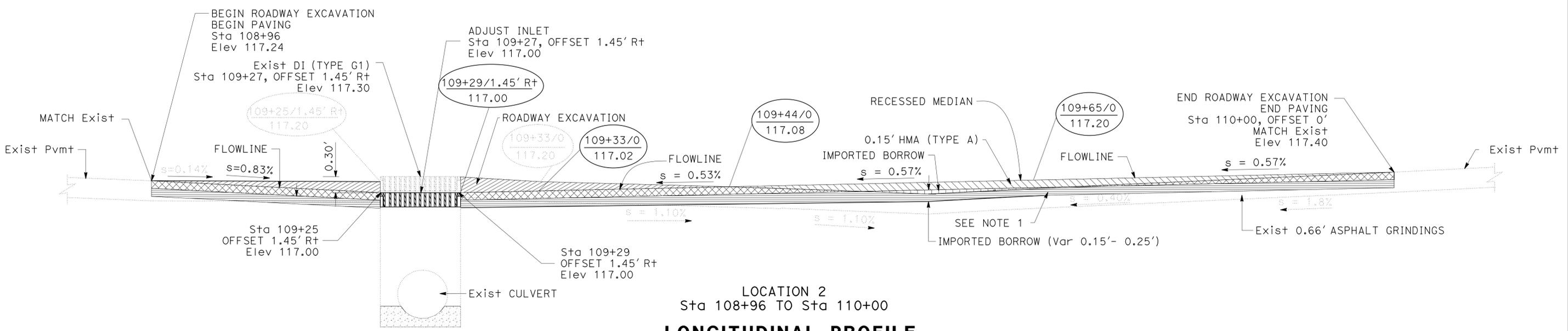
- EXCAVATED ASPHALT GRINDINGS MAY BE USED AS EMBANKMENT MATERIAL
- LONGITUDINAL PROFILE DRAWN AT MEDIAN CENTERLINE

LEGENDS:

- ROADWAY EXCAVATION (Var ~ 0.15')
- PAVE MEDIAN WITH 0.15' HOT MIX ASPHALT (TYPE A)
- ROADWAY EXCAVATION (Var ~ 0.35')
- HOT MIX ASPHALT (TYPE A) (Var ~ 0.15')
- ROADWAY EXCAVATION (0.15'- 2.36')
- IMPORTED BORROW (0.15'-2.36')
- Exist MINOR CONCRETE (BACKFILL)
- IMPORTED BORROW (Var ~ 1.60')



LOCATION 1
Sta 100+00 TO Sta 107+69
LONGITUDINAL PROFILE



LOCATION 2
Sta 108+96 TO Sta 110+00
LONGITUDINAL PROFILE

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS C-1
NO SCALE

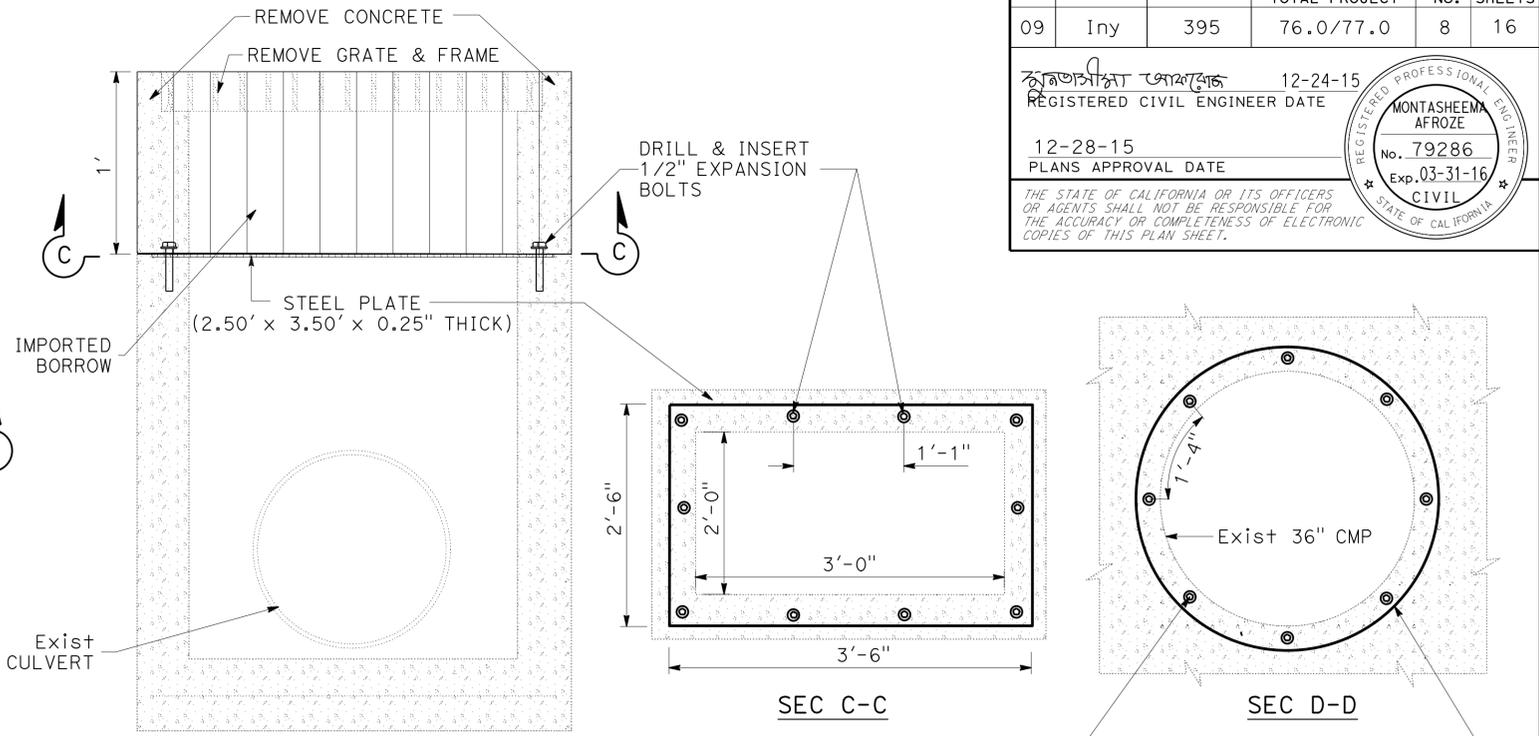
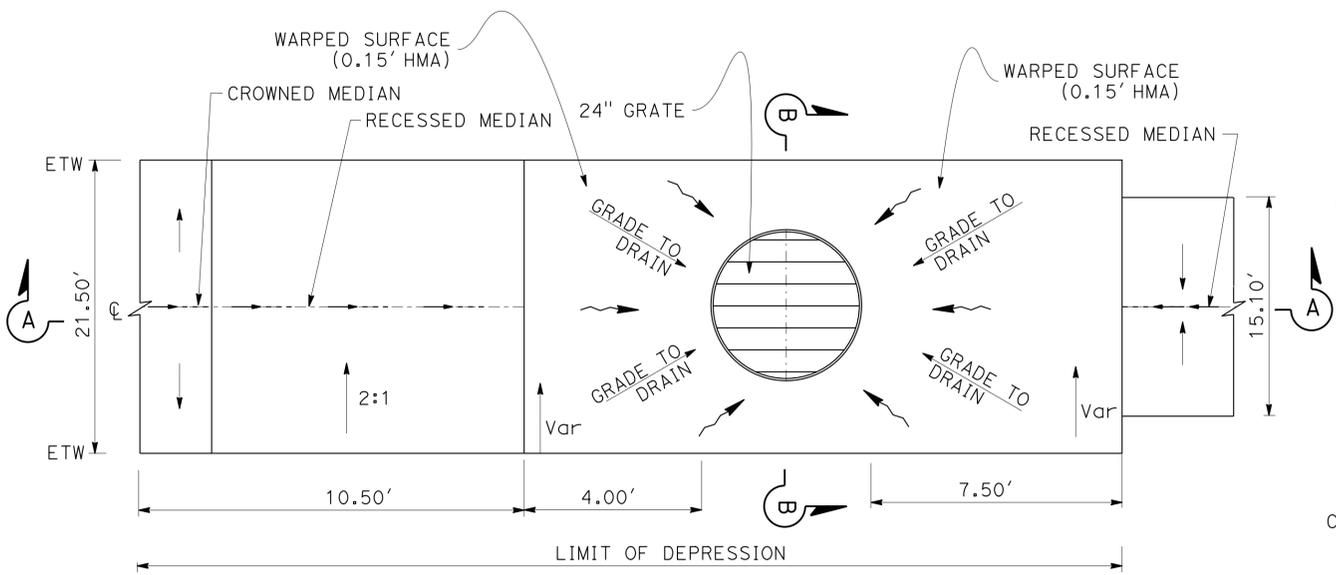
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DELIVERY
 FUNCTIONAL SUPERVISOR **JOHN FOX**
 CALCULATED/DESIGNED BY **NICHOLAS SPRAGUE**
 CHECKED BY
 MONTASHEEMA AFROZE
 REVISOR BY
 MA
 DATE REVISION 12-24-15

LAST REVISION DATE PLOTTED => 07-JAN-2016
 12-24-15 TIME PLOTTED => 17:09

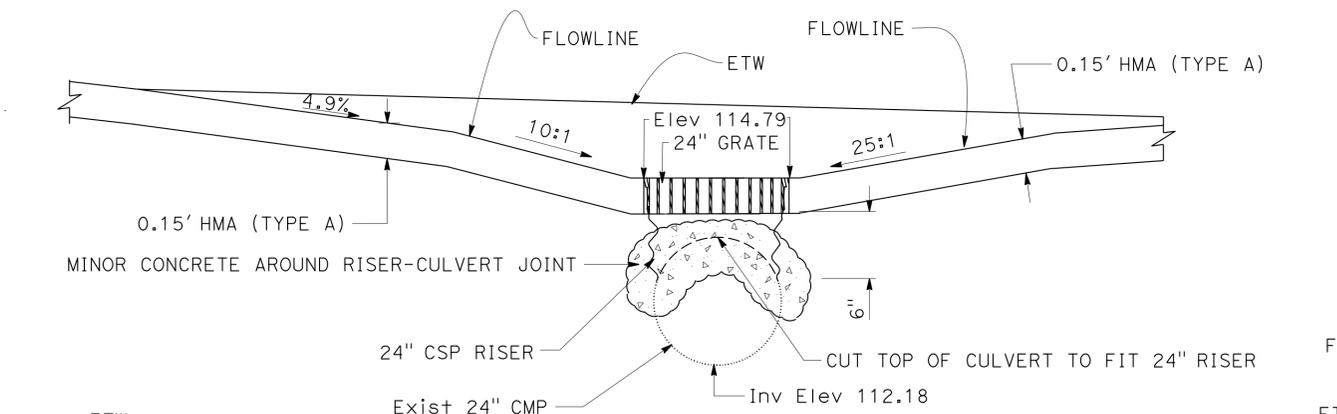
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	76.0/77.0	8	16

REGISTERED CIVIL ENGINEER DATE 12-24-15
 12-28-15 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

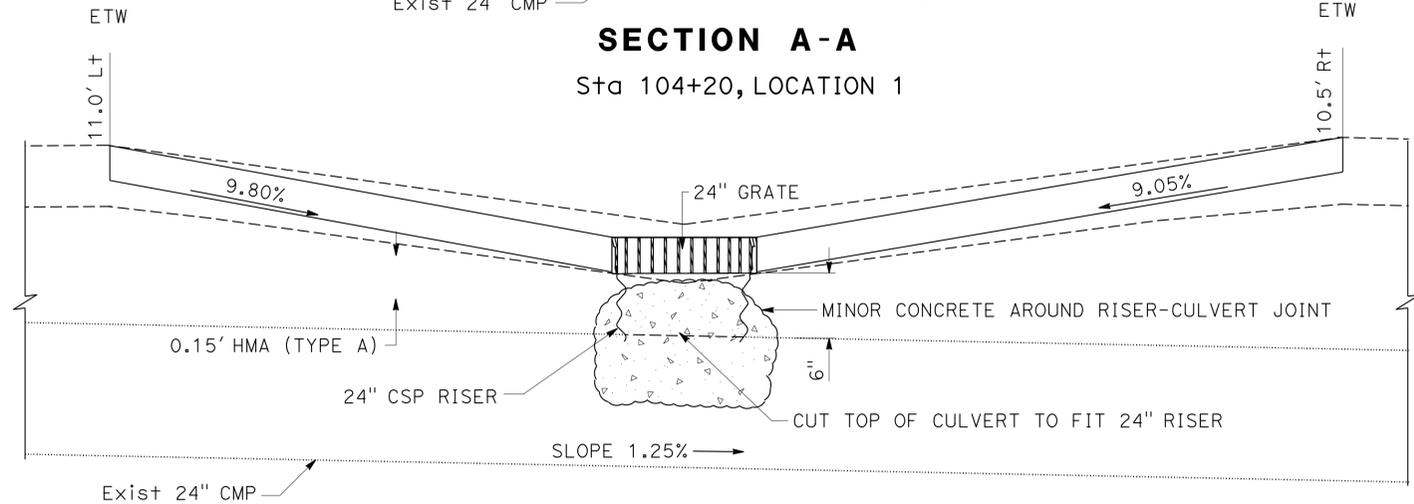
REGISTERED PROFESSIONAL ENGINEER
 MONTASHEEMA AFROZE
 No. 79286
 Exp. 03-31-16
 CIVIL
 STATE OF CALIFORNIA



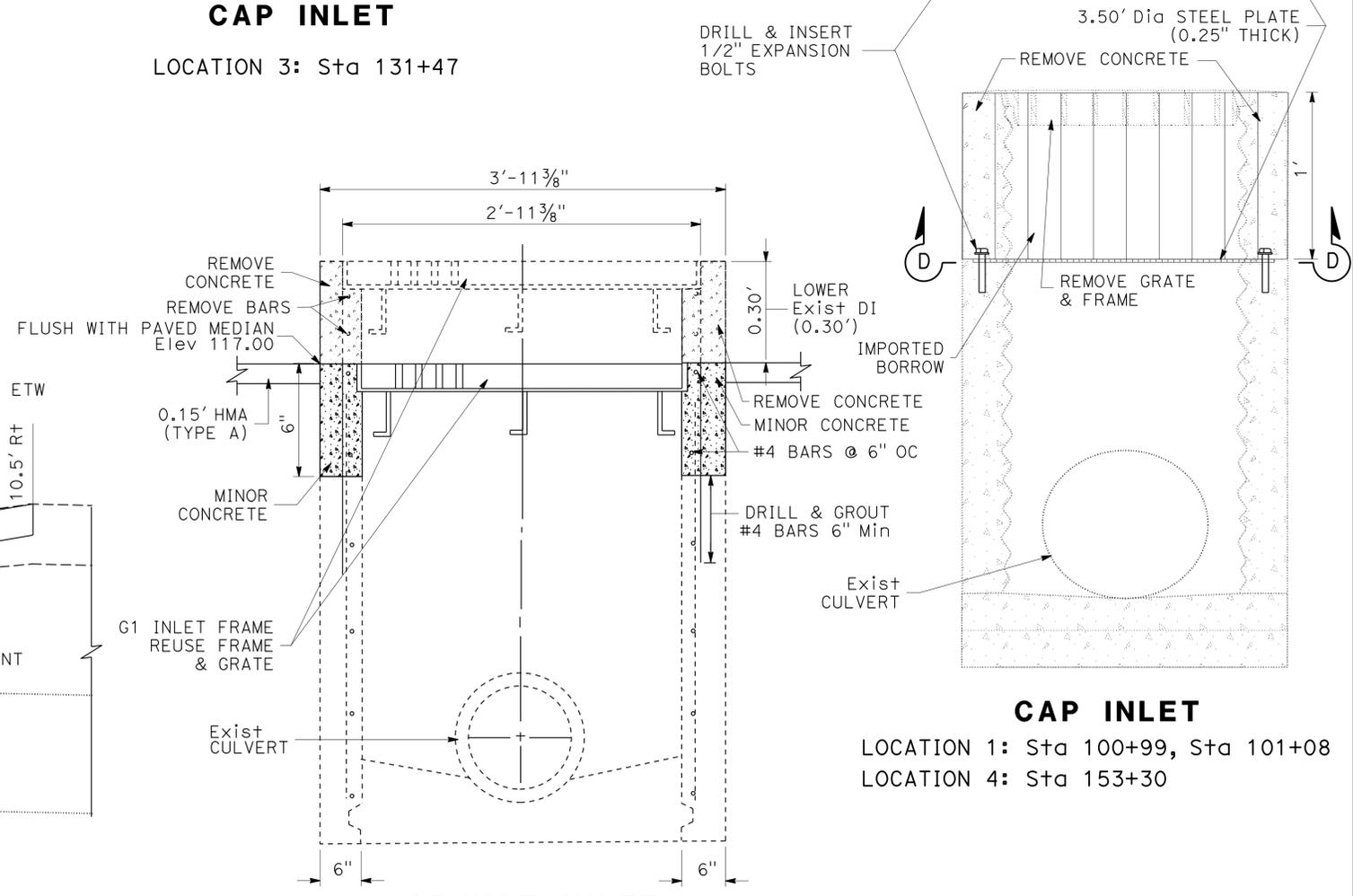
CAP INLET
 LOCATION 3: Sta 131+47



SECTION A-A
 Sta 104+20, LOCATION 1



SECTION B-B
 Sta 104+20, LOCATION 1



ADJUST INLET
 Sta 109+27, LOCATION 2

CAP INLET
 LOCATION 1: Sta 100+99, Sta 101+08
 LOCATION 4: Sta 153+30

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS
 NO SCALE
C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 PROJECT DELIVERY
 FUNCTIONAL SUPERVISOR: JOHN FOX
 CALCULATED/DESIGNED BY: MONTASHEEMA AFROZE
 CHECKED BY: NICHOLAS SPRAGUE
 REVISIONS: MA 12-24-15
 REVISIONS: DATE REVISIONS

USERNAME => s135339
 DGN FILE => 936210ga003.dgn

RELATIVE BORDER SCALE
 15" IN INCHES



UNIT 4210

PROJECT NUMBER & PHASE

09150000291

LAST REVISION DATE PLOTTED => 07-JAN-2016
 12-24-15 TIME PLOTTED => 17:13

NOTES:

- FOR SIGN INSTALLATION DETAILS AND DIMENSIONS NOT SHOWN SEE STANDARD PLANS.
- SEE TABLE FOR PLACEMENT TYPE.
- SIGNS IN CONFLICT WITH ADJACENT, ON-GOING PROJECTS SHALL BE COVERED UPON INSTALLATION.
- EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	76.0/77.0	9	16

REGISTERED CIVIL ENGINEER DATE 12-24-15

12-28-15 PLANS APPROVAL DATE

MONTASHEEMA AFROZE
No. 79286
Exp. 03-31-16
CIVIL

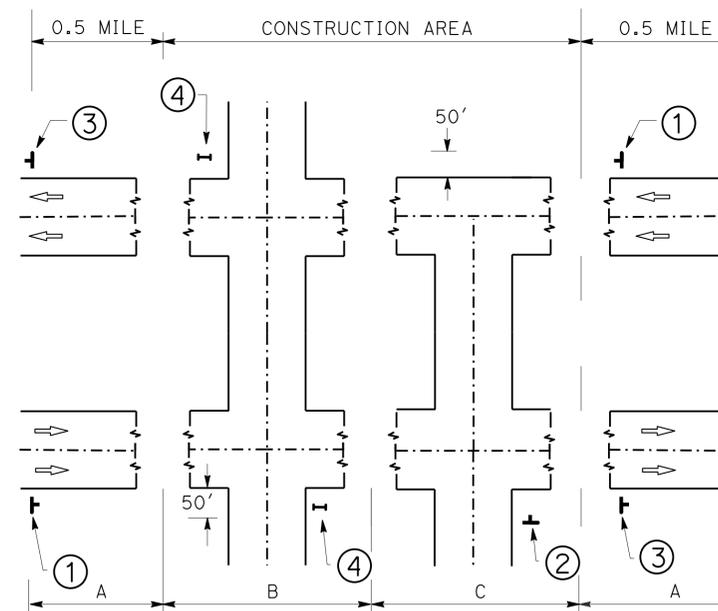
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS			
Sta	PM	PLACEMENT	REMARKS
73+60	75.50 (NB)	A	BEGIN WORK (NB), END WORK (SB)
	75.50 (SB)		
84+95	75.73	B	FISH HATCHERY Rd-L+, SHABBELL LANE-R+.
108+12	76.17	C	MILLER LANE, R+
114+14	76.27	C	GAS STATION ENTRANCE, L+
128+71	76.56	C	W. DUSTY LANE, R+
154+58	77.05	C	FORT INDEPENDENCE ROAD, R+, NORTH END
178+34	77.50 (NB)	A	BEGIN WORK (SB), END WORK (NB)
	77.50 (SB)		

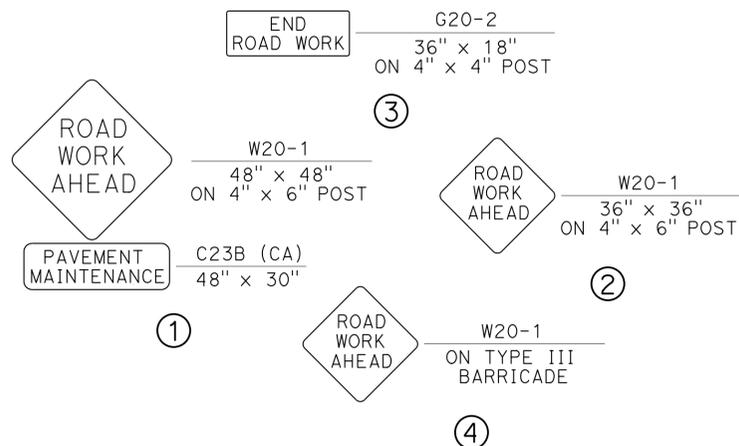
PORTABLE CHANGEABLE MESSAGE SIGNS		
MESSAGE FOR DIVIDED HIGHWAY		
LANE CLOSED AHEAD	REDUCE SPEED	USE CAUTION

- PORTABLE CHANGEABLE MESSAGE SIGN LOCATIONS TO BE CONFIRMED BY THE ENGINEER BEFORE THE ACTUAL CLOSURE.
- ALTERNATE MESSAGES MUST BE APPROVED BY THE ENGINEER.
- MESSAGE MAY BE ALTERED BY THE ENGINEER.
- WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, PORTABLE CHANGEABLE MESSAGE SIGNS MUST NOT DISPLAY A MESSAGE UNLESS DIRECTED BY THE ENGINEER.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
LAYOUT	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF SIGNS	NO. OF POST AND SIZE
①	W20-1	48" x 48"	ROAD WORK AHEAD	2	1- 4" x 6"
	C23B (CA) (SPECIAL)	48" x 30"	PAVEMENT MAINTENANCE		
②	W20-1	36" x 36"	ROAD WORK AHEAD	4	1- 4" x 6"
③	G20-2	36" x 18"	END ROAD WORK	2	1- 4" x 4"
④	W20-1	36" x 36"	ROAD WORK AHEAD	2	ON TYPE III BARRICADE



PLACEMENT TYPE
TYPICAL SIGN PLACEMENT FOR DIVIDED HIGHWAY WITH CONSTRUCTION IN BOTH DIRECTIONS OF TRAVEL



TYPICAL SIGN LAYOUT

CONSTRUCTION AREA SIGNS CS-1
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

DELINEATOR (CLASS 2)

LOCATION	STATION	SIDE	DELINEATOR	COMMENTS
			TYPE I*	
			EA	
1	Sta 100+93	MEDIAN	1	
	Sta 103+93	MEDIAN	1	
	Sta 106+25	MEDIAN	1	BC
	Sta 107+40	MEDIAN	1	
2	Sta 109+68	MEDIAN	1	
	Sta 110+82	MEDIAN	1	
3	Sta 111+96	MEDIAN	1	
	Sta 113+10	MEDIAN	1	
	Sta 114+25	MEDIAN	1	EC
	Sta 116+55	MEDIAN	1	
	Sta 119+55	MEDIAN	1	
	Sta 122+55	MEDIAN	1	
	Sta 127+55	MEDIAN	1	
4	Sta 132+55	MEDIAN	1	
	Sta 137+55	MEDIAN	1	
	Sta 142+55	MEDIAN	1	
	Sta 147+55	MEDIAN	1	
TOTAL			18	

* THE REFLECTIVE SHEETING USED ON THE BACK OF THE DELINEATOR MUST BE A MINIMUM SIZE OF 3"X12"

REMOVE DELINEATOR

LOCATION	Sta TO Sta	SIDE	EA
1	100+00 TO 107+69	MEDIAN	4
2	108+96 TO 110+00	MEDIAN	1
	110+00 TO 131+43	MEDIAN	8
3	131+43 TO 149+53	MEDIAN	4
4	150+19 TO 154+11	MEDIAN	1
TOTAL			18

PAINT TRAFFIC STRIPE (2-COAT)

LOCATION	STATION	DETAIL NUMBER
		28 LF
1	100+00 - 107+69	1,538
2	108+96 - 110+00	208
3	131+43 - 149+53	3,620
4	150+19 - 154+11	784
TOTAL		6,150

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	76.0/77.0	10	16

12-24-15
 REGISTERED CIVIL ENGINEER DATE
 12-23-15
 PLANS APPROVAL DATE

MONTASHEEMA AFROZE
 No. 79286
 Exp. 03-31-16
 CIVIL

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RESET ROADSIDE SIGN

LOCATION	Sta	SIDE	RESET ROADSIDE SIGN **	MESSAGE
			EA	
1	106+45	MEDIAN	1	DO NOT ENTER WRONG WAY
1	107+45	MEDIAN	1	ONE WAY
2	109+04	MEDIAN	1	DO NOT ENTER WRONG WAY
4	150+23	MEDIAN	1	ONE WAY
4	153+00	MEDIAN	1	DO NOT ENTER WRONG WAY
4	154+08	MEDIAN	1	ONE WAY
TOTAL			6	

** "ONE WAY" SIGNS MUST BE INSTALLED 1.5' FROM BOTTOM OF PANEL TO EP AND "WRONG WAY" SIGNS MUST BE 2' FROM BOTTOM OF PANEL TO EP, MEASURED VERTICALLY

OBJECT MARKER

LOCATION	Sta	SIDE	OBJECT MARKER (TYPE K-1)
			EA
1	107+50	MEDIAN	1
3	149+50	MEDIAN	1
4	150+20	MEDIAN	1
4	154+10	MEDIAN	1
TOTAL			4

REMOVE MARKER

LOCATION	Sta	SIDE	OBJECT MARKER (TYPE K-1)
			EA
1	107+50	MEDIAN	1
3	149+50	MEDIAN	1
4	150+20	MEDIAN	1
4	154+10	MEDIAN	1
TOTAL			4

PAVEMENT DELINEATION QUANTITIES

NO SCALE PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans PROJECT DELIVERY
 FUNCTIONAL SUPERVISOR JOHN FOX
 CALCULATED/DESIGNED BY DAMON CHERENZIA
 CHECKED BY
 REVISOR BY MA
 DATE REVISED 12-24-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	76.0/77.0	11	16

12-24-15
 REGISTERED CIVIL ENGINEER DATE
 12-23-15
 PLANS APPROVAL DATE

MONTASHEEMA AFROZE
 No. 79286
 Exp. 03-31-16
 CIVIL

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 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
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 COPIES OF THIS PLAN SHEET.

NOTE:

1. EXCAVATED ASPHALT GRINDINGS MAY BE USED AS EMBANKMENT MATERIAL

ROADWAY QUANTITIES

LOCATION	STATION	HOT MIX ASPHALT (TYPE A)	COLD PLANE AC PAVEMENT	IMPORTED BORROW	ROADWAY EXCAVATION (SEE NOTE 1)	TACK COAT	24" CSP RISER (0.138" THICK)	MISCELLANEOUS METAL
		TON	SQYD	CY	CY	TON	LF	LB
1	100+00 - 107+69	164	394	134	44.10	0.69		
1	104+20						0.5	158
2	108+96 - 110+00	22		6	9.70	0.07		
3	131+43 - 149+53	430	1609	497	0.70	1.74		
4	150+19 - 154+11	102	338	71	0.50	0.40		
	TOTAL	718	2341	708	55.00	2.90	0.5	158

ADJUST INLET

LOCATION	SIDE	STATION	EA	REMARKS
2	MEDIAN	109+27	1	DI (TYPE G1)
TOTAL			1	

**SHOULDER RUMBLE STRIP
(HMA, GROUND-IN INDENTATIONS)**

LOCATION	STATION TO STATION	DIRECTION	SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)
			Sta
1	100+00 TO 104+29	MEDIAN, NB	4.29
1	100+00 TO 104+29	MEDIAN, SB	4.29
3	131+43 TO 149+53	MEDIAN, NB	18.10
3	132+43 TO 149+53	MEDIAN, SB	17.10
4	150+19 TO 154+11	MEDIAN, NB	3.92
4	150+19 TO 154+11	MEDIAN, SB	3.92
TOTAL			51.62

CAP INLET

LOCATION	SIDE	STATION	EA	REMARKS
1	MEDIAN	100+99	1	DI (36" TYPE GMP)
1	MEDIAN	101+08	1	DI (36" TYPE GMP)
3	MEDIAN	131+47	1	DI (3'X4' TYPE G1)
4	MEDIAN	153+30	1	DI (36" TYPE GMP)
TOTAL			4	

ABANDON CULVERT

LOCATION	SIDE	STATION	EA	LENGTH (N)	SAND BACKFILL	REMARKS
					CY	
3	MEDIAN	131+47	1	45.50'	5.30	24" CMP
4	MEDIAN	153+30	1	55.50'	6.46	24" CMP
TOTAL			2		11.76	

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

SUMMARY OF QUANTITIES

NO SCALE **Q-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DELIVERY
 FUNCTIONAL SUPERVISOR **JOHN FOX**
 CALCULATED/DESIGNED BY
 CHECKED BY
 MONTASHEEMA AFROZE
 NICHOLAS SPRAGUE
 REVISED BY
 DATE REVISED
 MA
 12-24-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	395	76.0/77.0	12	16

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 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.

TO ACCOMPANY PLANS DATED 12-28-15

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft ³ , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
∅	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
MtI	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT
N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE
Obir	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN
p	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm MtI	PERMEABLE MATERIAL

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
PL, PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT
Qty	QUANTITY
R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED, REINFORCEMENT, REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD, RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
SL	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK, SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES
T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
TeI	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL
UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME
W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWL	WINGWALL LAYOUT LINE
X Sec	CROSS SECTION
Xing	CROSSING
Yr	YEAR
Yrs	YEARS

P continued

S

T continued

M

Q

R

T

W

X

Y

U

V

TO ACCOMPANY PLANS DATED 12-28-15

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING							
SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
 For speed of 40 mph or less, $L = WS^2/60$
 For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
 W = Width of offset in feet
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph
 ** - Longitudinal buffer space or flagger station spacing
 *** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

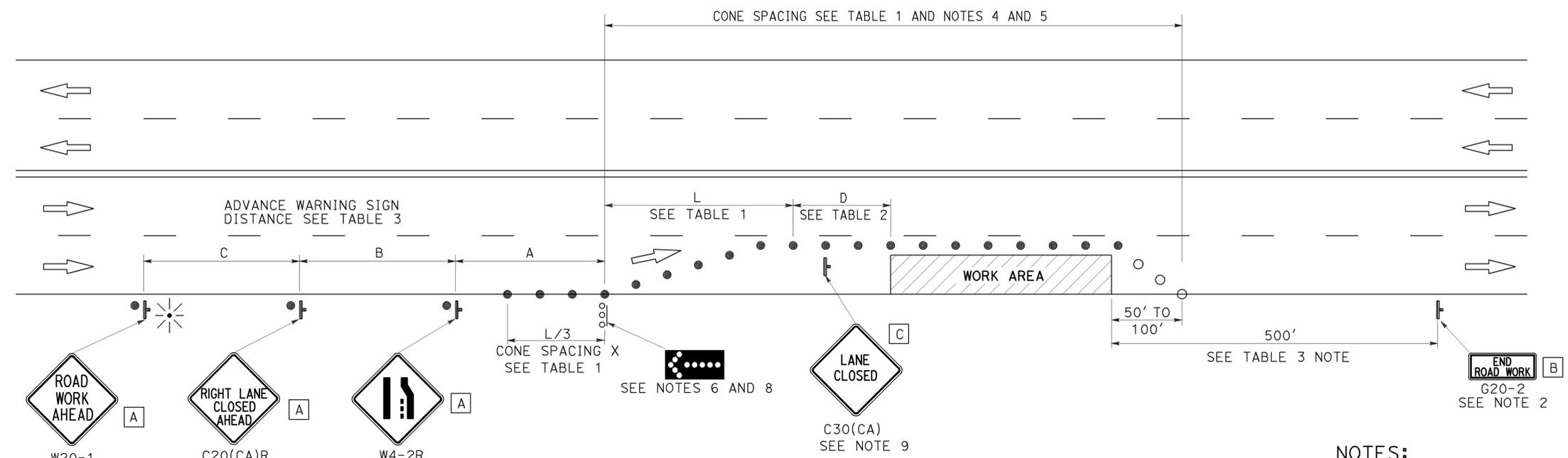
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

TO ACCOMPANY PLANS DATED 12-28-15



TYPICAL LANE CLOSURE

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.

NOTES:

1. Each advance warning sign 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.
2. A G20-2 "END ROAD WORK" sign, 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.
3. 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) sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Flashing arrow sign shall be either Type I or Type II.
7. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
8. 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 the top of crest vertical curve or on a horizontal curve.
9. Place a C30(CA) sign every 2000' throughout length of lane closure.
10. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
11. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

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** 36" x 18"
- C** 30" x 30"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS**

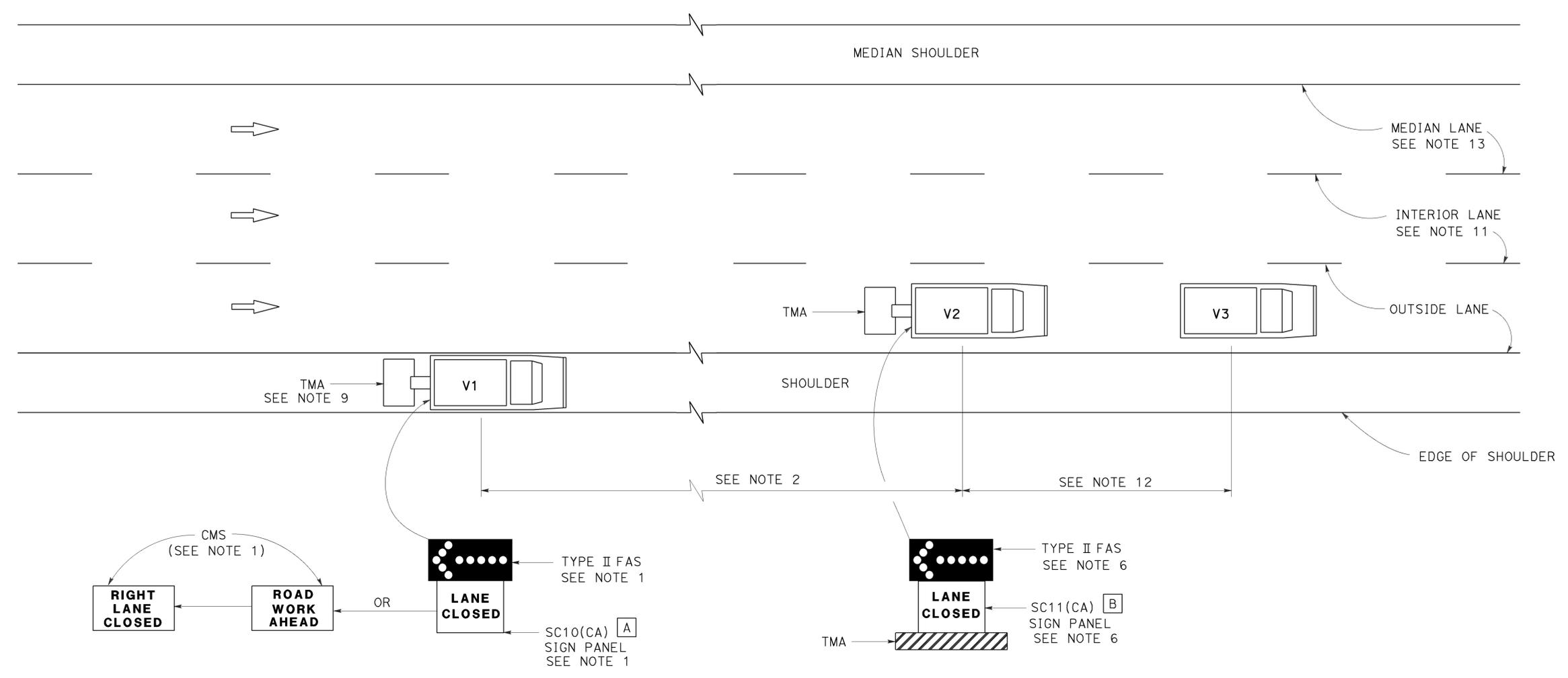
NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11
 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

TO ACCOMPANY PLANS DATED 12-28-15



SIGN PANEL SIZE (Min)

- A 66" x 36"
- B 54" x 42"

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
-  FLASHING ARROW SIGN (FAS)
- CMS CHANGEABLE MESSAGE SIGN
- TMA TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

NOTES:

1. Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. 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.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
7. 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.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. 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.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
13. When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS
NO SCALE

RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15 DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

2010 REVISED STANDARD PLAN RSP T15