

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

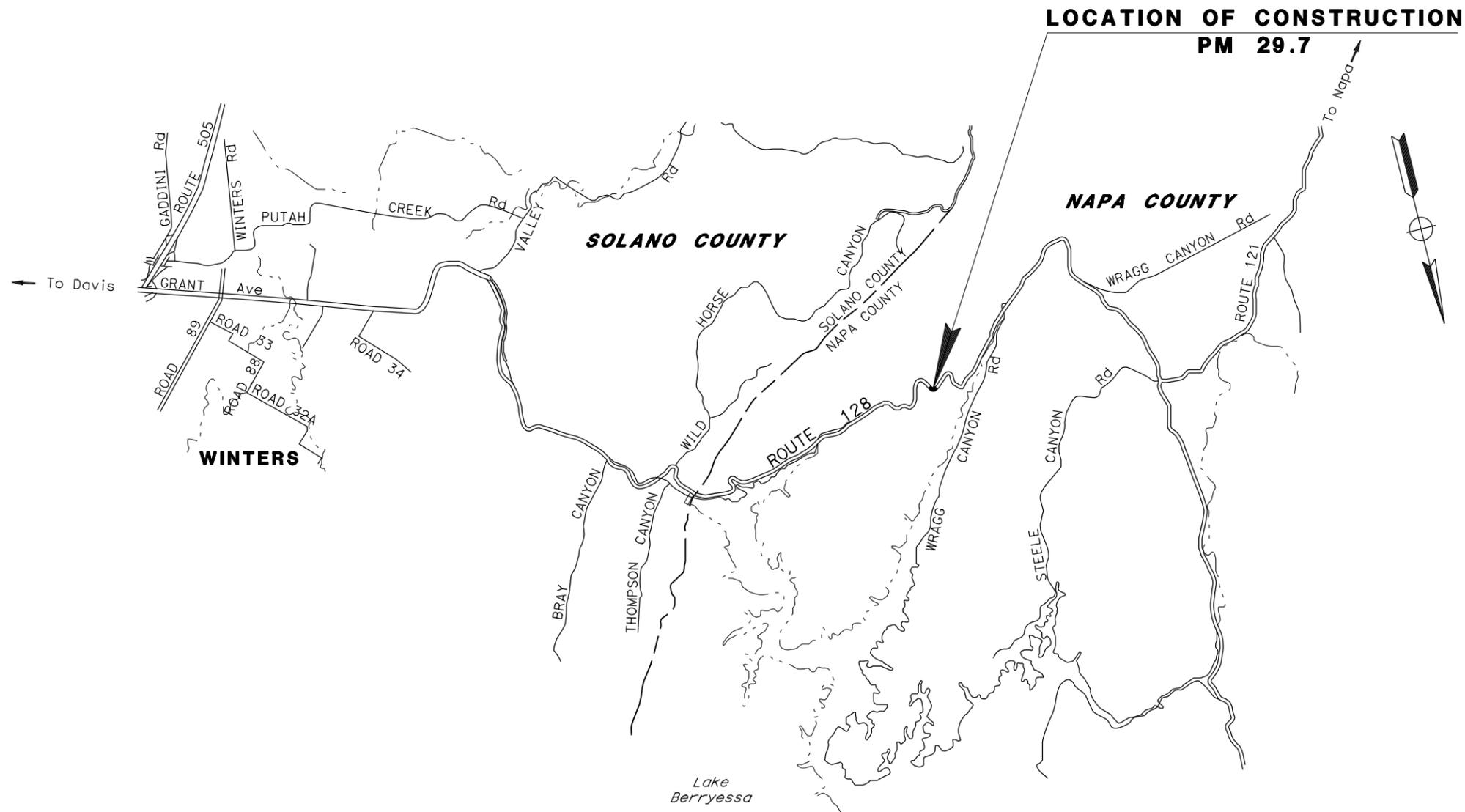
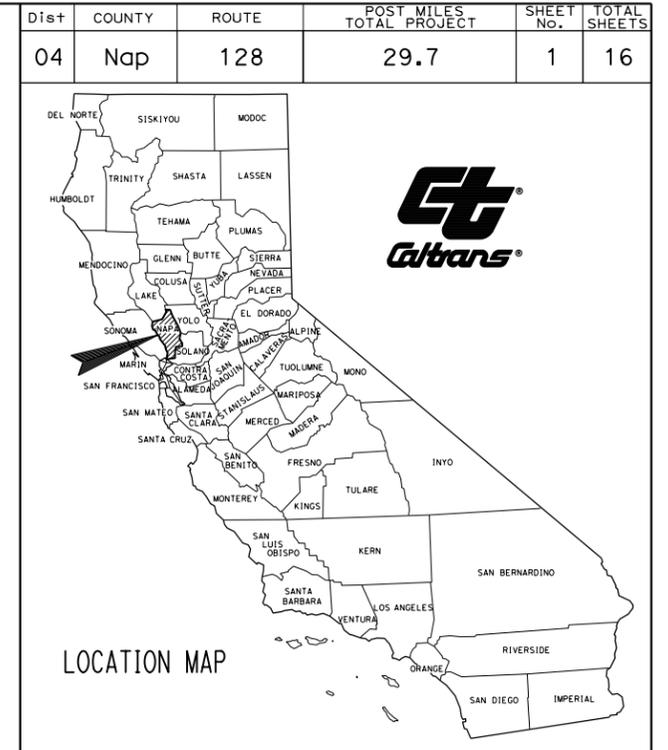
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN NAPA COUNTY
NEAR WINTERS
AT 1.8 MILES EAST OF WRAGG CANYON ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	LAYOUT
4	CONSTRUCTION DETAILS
5 - 6	TEMPORARY WATER POLLUTION CONTROL PLAN AND QUANTITIES
7 - 10	DRAINAGE PLANS, PROFILES, DETAILS AND QUANTITIES
11	CONSTRUCTION AREA SIGNS
12	SUMMARY OF QUANTITIES
13 - 14	EROSION CONTROL LEGEND AND QUANTITIES, AND PLAN
15 - 16	REVISED STANDARD PLANS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.



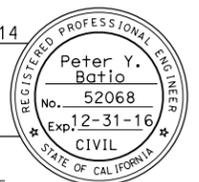
DESIGN MANAGER
JAMES LEY

PROJECT MANAGER
AHMAD RAHIMI

Pete Y. Batio 11/3/14
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

March 30, 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.



CONTRACT No.	04-2G9504
PROJECT ID	0400021255

NO SCALE



USERNAME => s114360
DGN FILE => 0400021255ab001.dgn

UNIT 0753 PROJECT NUMBER & PHASE 04000212551

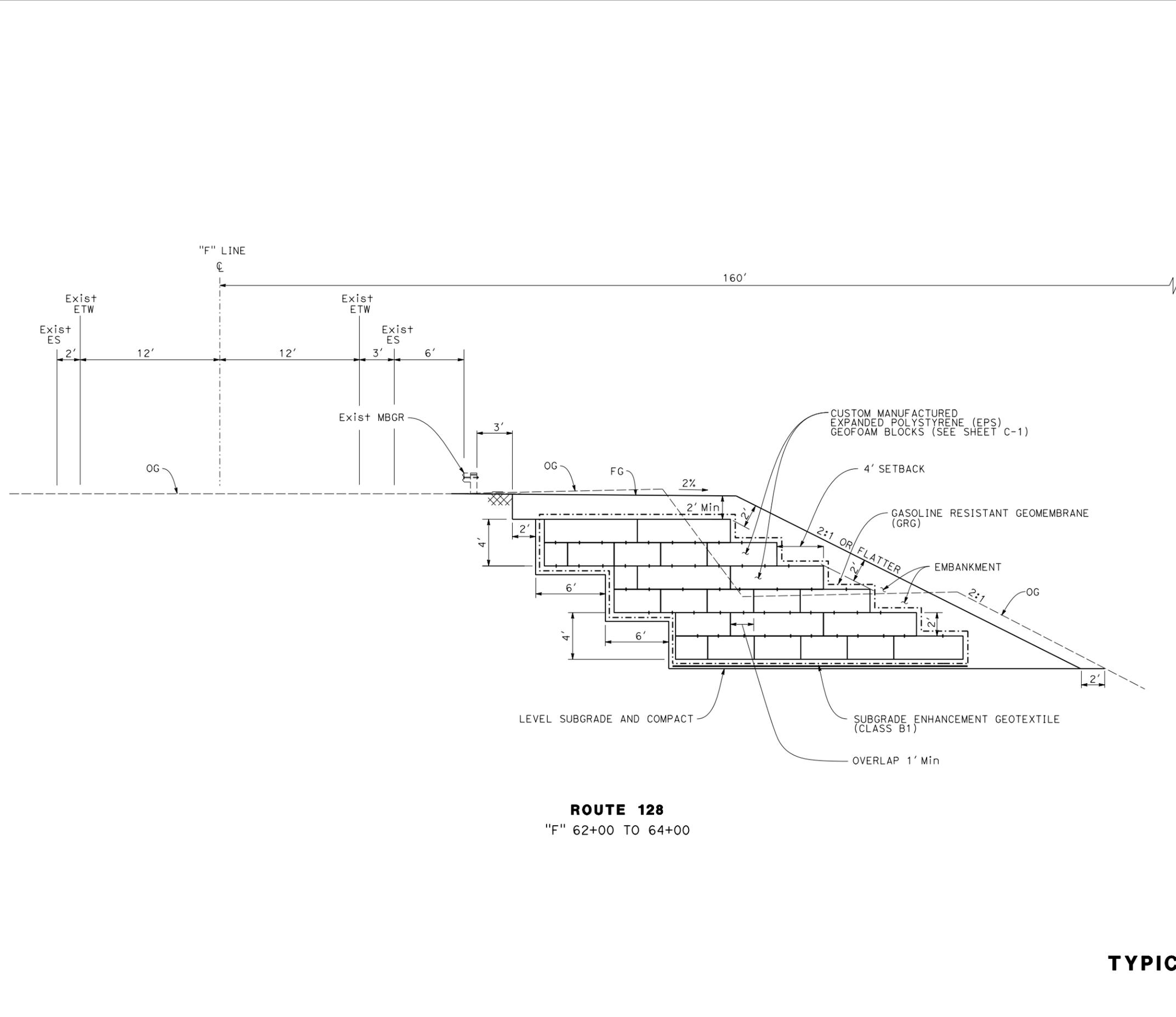
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR
 ZIAD ABUBEKR

REVISOR
 PETER BATIO

DESIGNER
 JAMES LEY

DATE
 8/14/14



ROUTE 128
 "F" 62+00 TO 64+00

TYPICAL CROSS SECTIONS
 NO SCALE

X-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	29.7	2	16

Peter Y. Batio 11/3/14
 REGISTERED CIVIL ENGINEER DATE

3-30-15
 PLANS APPROVAL DATE

Peter Y. Batio
 No. 52068
 Exp. 2-31-16
 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.

DATE PLOTTED => 03-APR-2015
 TIME PLOTTED => 07:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	29.7	3	16

Peter Y. Batio 11/3/14
REGISTERED CIVIL ENGINEER DATE

3-30-15
PLANS APPROVAL DATE

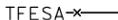
Peter Y. Batio
REGISTERED PROFESSIONAL ENGINEER
No. 52068
Exp. 2-31-16
CIVIL
STATE OF CALIFORNIA

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

LEGEND:

 EXCAVATION LIMIT

 TFESA — TEMPORARY FENCE (TYPE ESA)

ABBREVIATION:

EPS EXPANDED POLYSTYRENE

CURVE DATA

No. @	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	329.90'	18° 06' 23"	52.56'	104.25'	5888.60	5695.70
2	327.28'	113° 41' 53"	501.07'	649.46'	5321.50	5359.10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

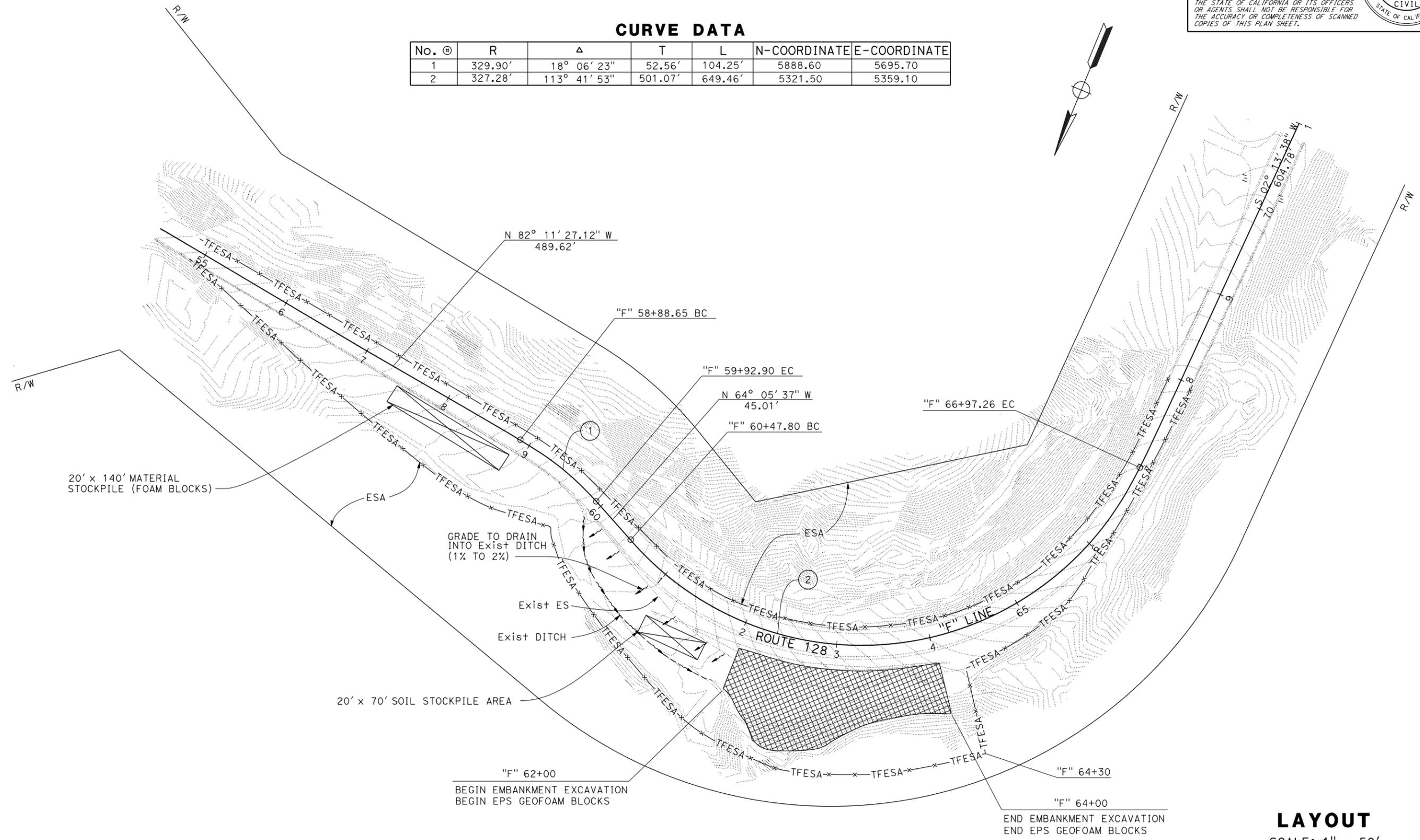
FUNCTIONAL SUPERVISOR
ZIAD ABUBEKR

CALCULATED-DESIGNED BY
CHECKED BY

PETER BATIO
JAMES LEY

REVISED BY
DATE REVISED

PB
8/14/14



LAYOUT
SCALE: 1" = 50'

L-1

DATE PLOTTED => 03-APR-2015
TIME PLOTTED => 07:16
LAST REVISION 03-06-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: ZIAD ABUBEKR
 PETER BATIO
 JAMES LEY
 REVISED BY: PB
 DATE REVISED: 8/14/14
 CALCULATED-DESIGNED BY: PETER BATIO
 CHECKED BY: JAMES LEY

ABBREVIATIONS:

EPS EXPANDED POLYSTYRENE
 GRG GASOLINE RESISTANT GEOMEMBRANE

NOTES:

- FOR PARTIAL EPS BLOCK PLACEMENT, MINIMUM WIDTH OF 2' IS REQUIRED. IF 2' WIDTH IS NOT ACHIEVABLE, CUT PORTION OF THE ADJACENT BLOCK TO ALLOW MINIMUM WIDTH. IT MAY BE NECESSARY TO USE CUSTOM MANUFACTURED BLOCK, CUT TO FIT WIDTHS MORE THAN STANDARD EPS BLOCK.
- PRE-GLUING PARTIAL BLOCKS TO ACHIEVE CUSTOM MANUFACTURED BLOCK SIZE WILL BE ACCEPTABLE.

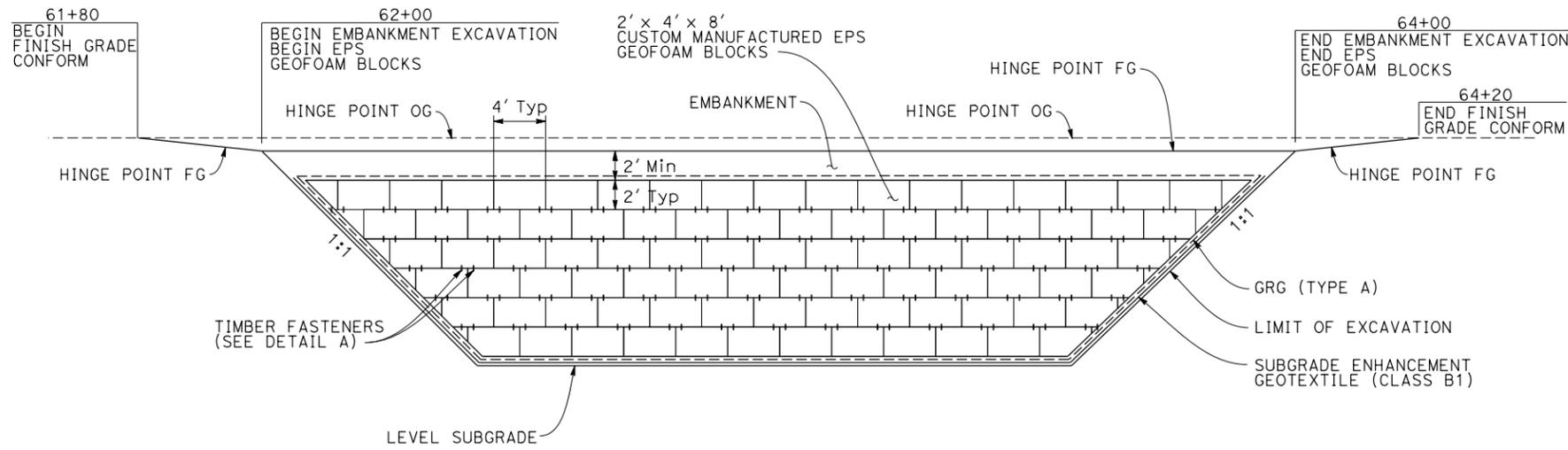
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	29.7	4	16

Peter Y. Batio 11/3/14
 REGISTERED CIVIL ENGINEER DATE

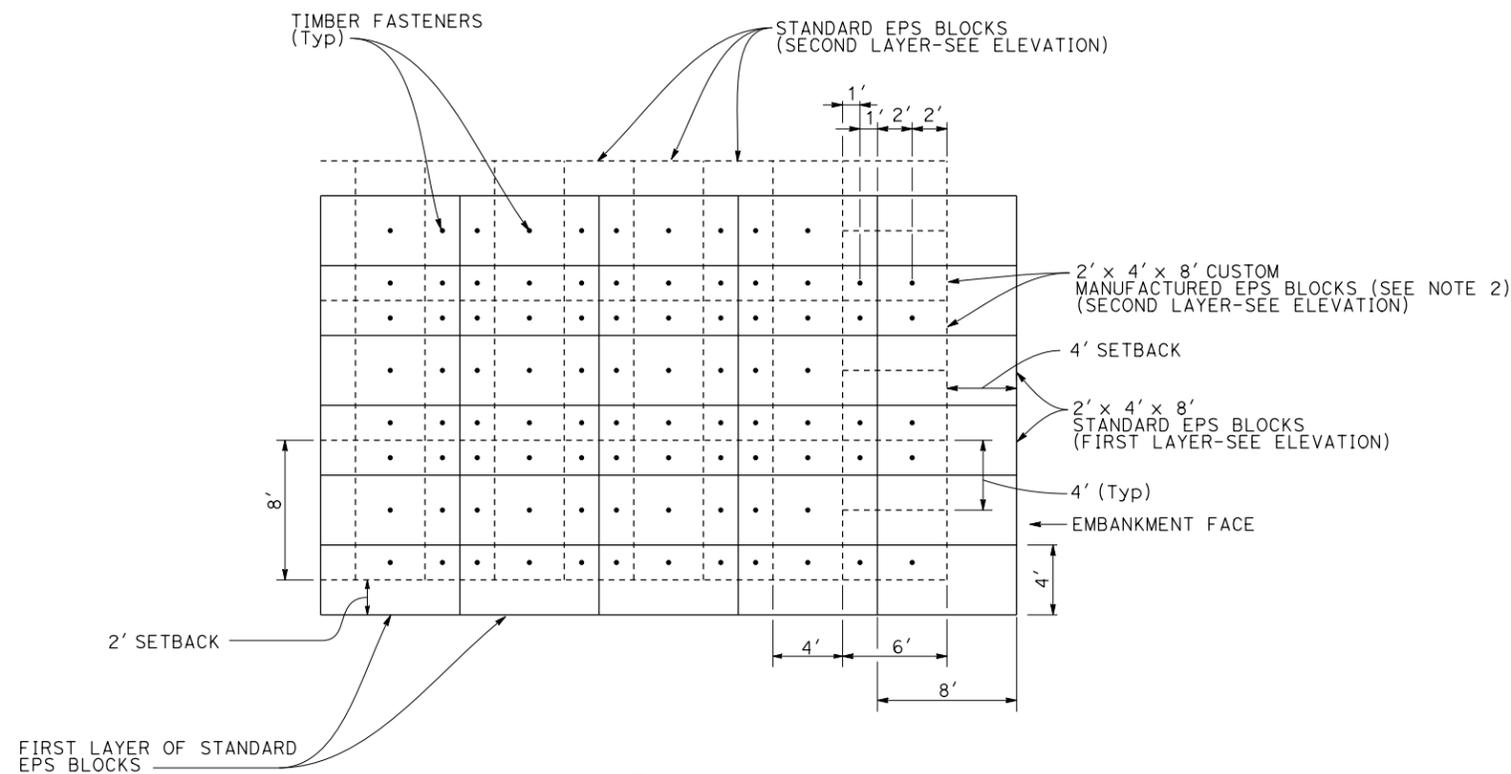
3-30-15
 PLANS APPROVAL DATE

Peter Y. Batio
 No. 52068
 Exp. 2-31-16
 CIVIL
 STATE OF CALIFORNIA

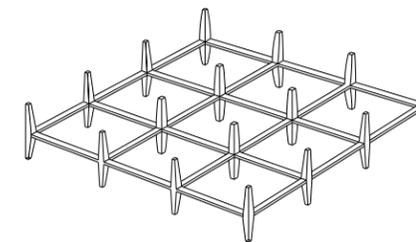
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



FRONT VIEW OF EMBANKMENT



EPS BLOCK WALL CONSTRUCTION



TIMBER FASTENER

DETAIL A

TYPICAL TIMBER FASTENER: SIZE 4" x 4" x 1" DEEP
 BOLT HOLE SIZE TO 1"

CONSTRUCTION DETAILS

NO SCALE

C-1



x
x
x
x
x

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans WATER QUALITY
 FUNCTIONAL SUPERVISOR
 KAMRAN NAKHJIRI
 CALCULATED-DESIGNED BY
 CHECKED BY
 NGOCCHAU TRAN
 KAMRAN NAKHJIRI
 REVISED BY
 DATE REVISED
 NT
 12/4/14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	29.7	6	16


 REGISTERED CIVIL ENGINEER DATE 11-4-14
 3-30-15
 PLANS APPROVAL DATE

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TEMPORARY WATER POLLUTION CONTROL QUANTITIES

ITEM	UNIT	POST MILE	QUANTITY
TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	29.7	1800
TEMPORARY DRAINAGE INLET PROTECTION	EA	29.7	1
TEMPORARY FIBER ROLL	LF	29.7	1500
TEMPORARY SILT FENCE	LF	29.7	300
TEMPORARY COVER	SQYD	29.7	500

TEMPORARY WATER POLLUTION CONTROL QUANTITIES
WPCQ-1



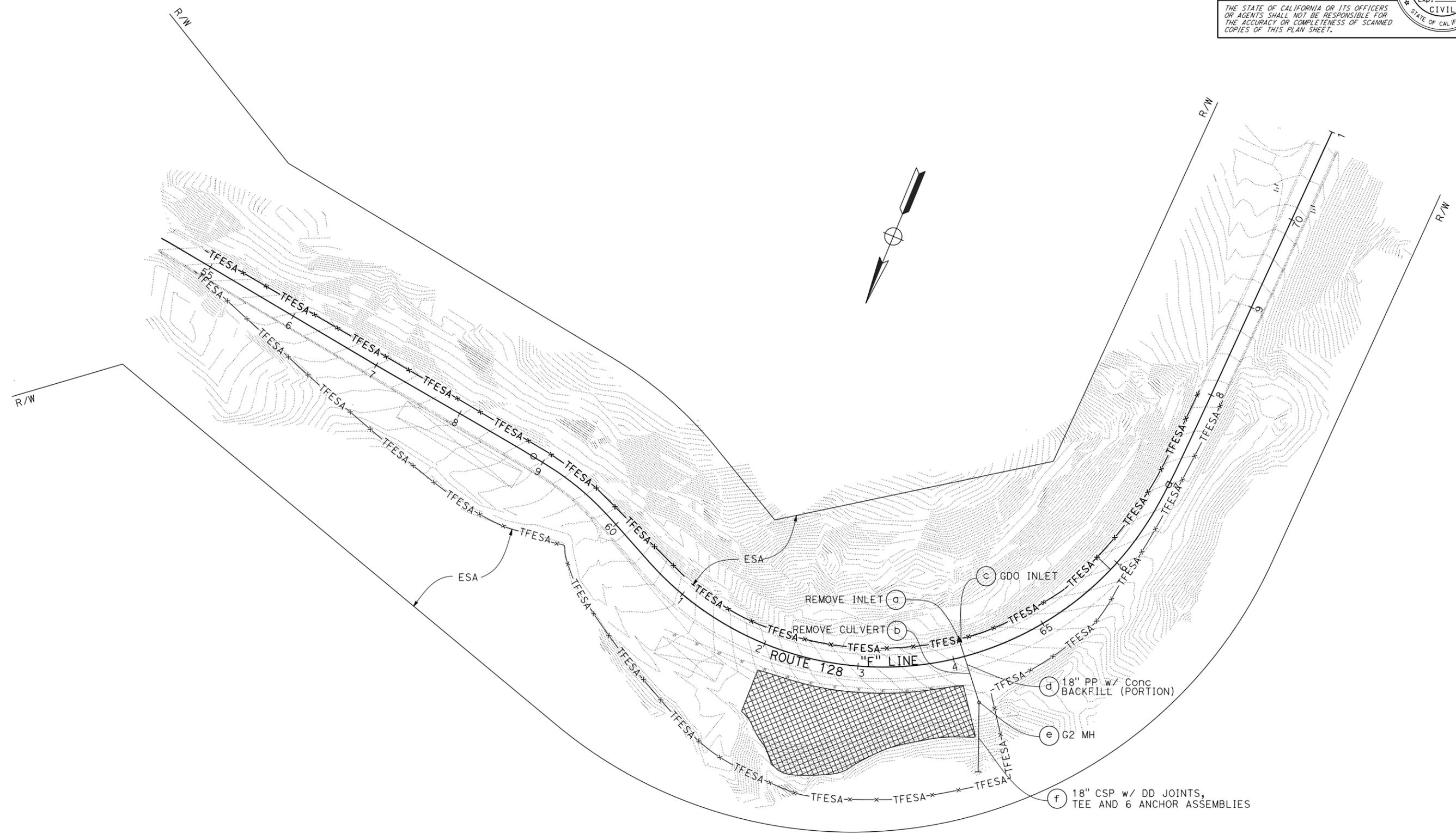
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	29.7	7	16
Peter Y. Batio		11-4-14	REGISTERED CIVIL ENGINEER DATE		
3-30-15		PLANS APPROVAL DATE			
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

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

LEGEND:
 EXCAVATION LIMIT
 TFESA — x — TEMPORARY FENCE (TYPE ESA)

ABBREVIATION:
w/ WITH

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	ZIAD ABUBEKR
CALCULATED-DESIGNED BY	CHECKED BY
PETER BATIO	JAMES LEY
REVISOR BY	DATE REVISED
PB	8/14/14



DRAINAGE PLAN
SCALE: 1" = 50'

APPROVED FOR DRAINAGE WORK ONLY

D-1

LAST REVISION DATE PLOTTED => 03-APR-2015 TIME PLOTTED => 07:16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

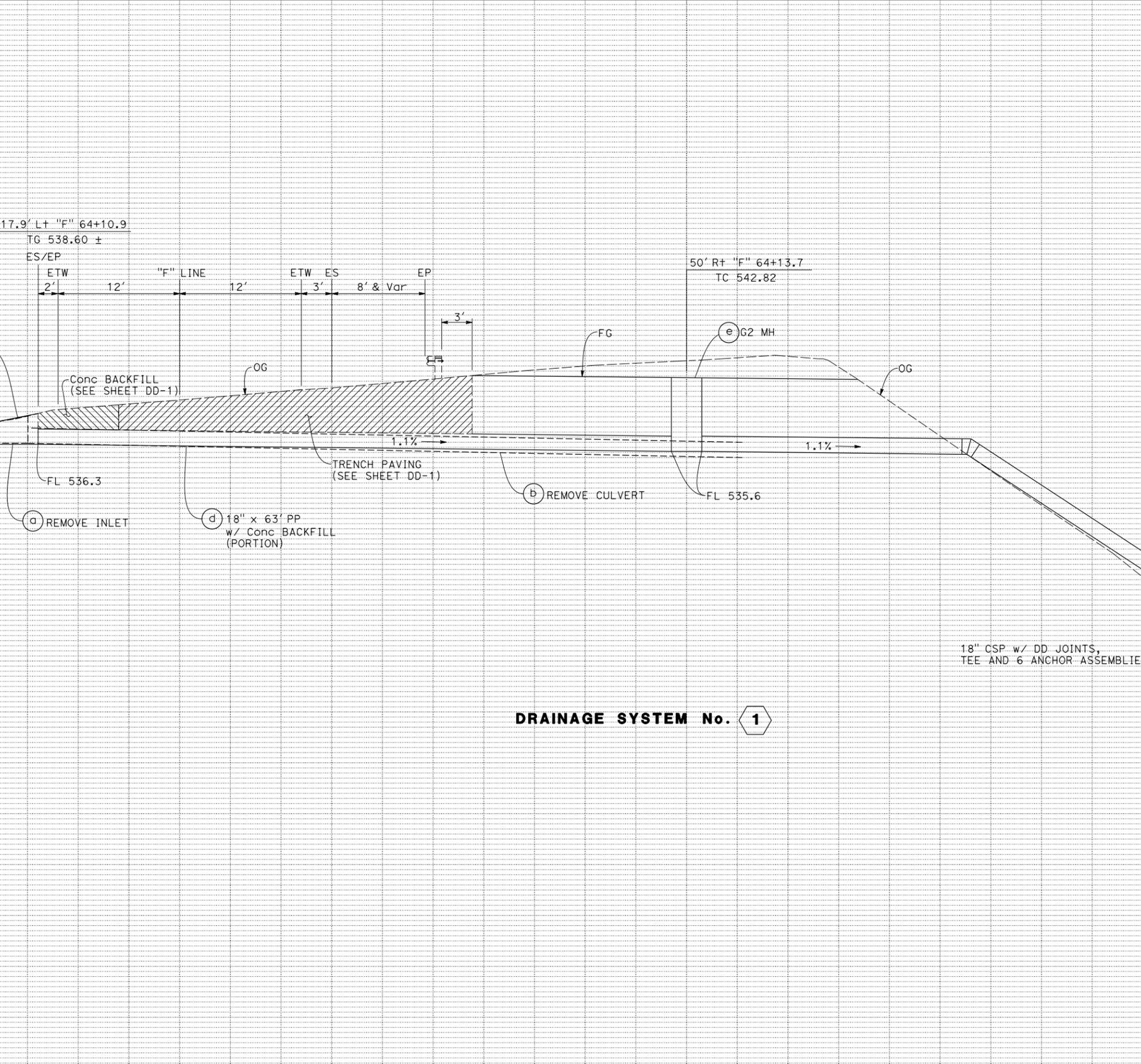
FUNCTIONAL SUPERVISOR
 ZIAD ABUBEKR

CALCULATED-DESIGNED BY
 CHECKED BY

PETER BATIO
 JAMES LEY

REVISED BY
 DATE REVISED

PB
 8/14/14



DRAINAGE SYSTEM No. 1

DRAINAGE PROFILES

SCALE: Horiz 1" = 5'
 Vert 1" = 5'

DP-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	29.7	8	16
Peter Y. Batio			11/4/14	REGISTERED CIVIL ENGINEER DATE	
3-30-15			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.					
REGISTERED PROFESSIONAL ENGINEER Peter Y. Batio No. 52068 EXP. 12-31-16 CIVIL STATE OF CALIFORNIA					

LAST REVISION DATE PLOTTED => 03-APR-2015 12-05-14 TIME PLOTTED => 07:17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 ZIAD ABUBEKR

CALCULATED-DESIGNED BY
 CHECKED BY

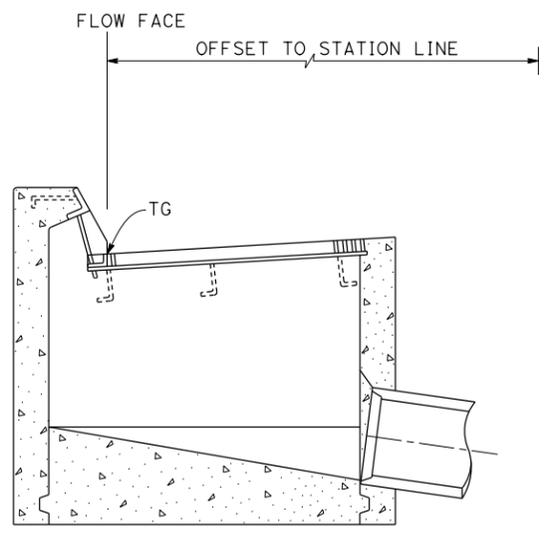
PETER BATIO
 JAMES LEY

REVISED BY
 DATE REVISED

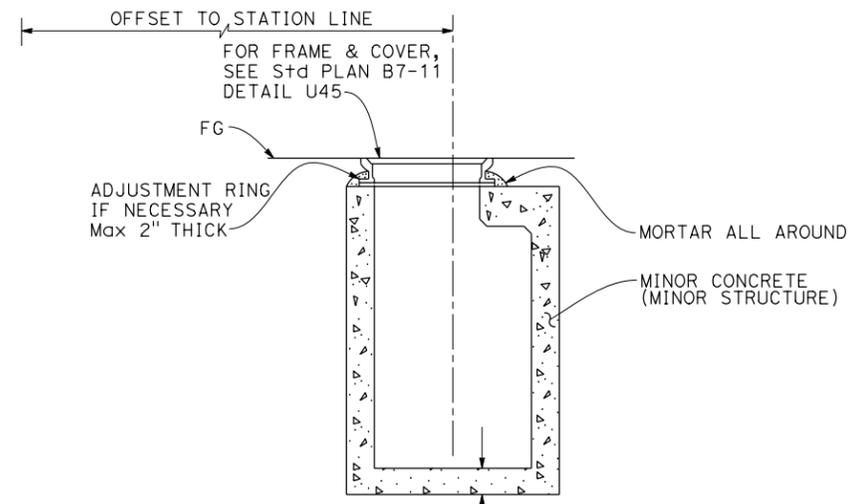
PB
 8/14/14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	29.7	9	16
Zhongbao Liu 11/4/14 REGISTERED CIVIL ENGINEER DATE			Zhongbao Liu No. 60668 Exp. 2-31-16 CIVIL STATE OF CALIFORNIA		
3-30-15 PLANS APPROVAL DATE					
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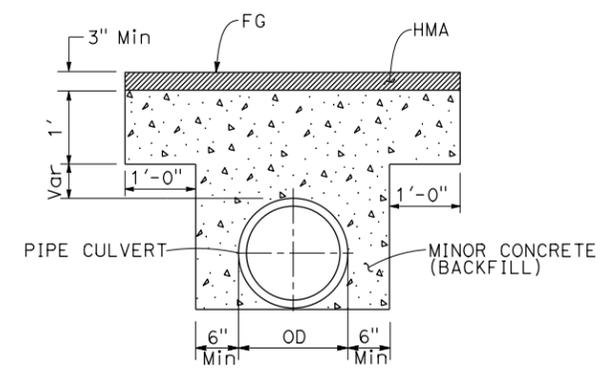
NOTES:
 1. FOR DETAILS NOT SHOWN, SEE S+D PLAN D73 (G2 INLET) AND DETAILS.
 2. FOR STEP DETAILS NOT SHOWN, SEE S+D PLAN D74C.



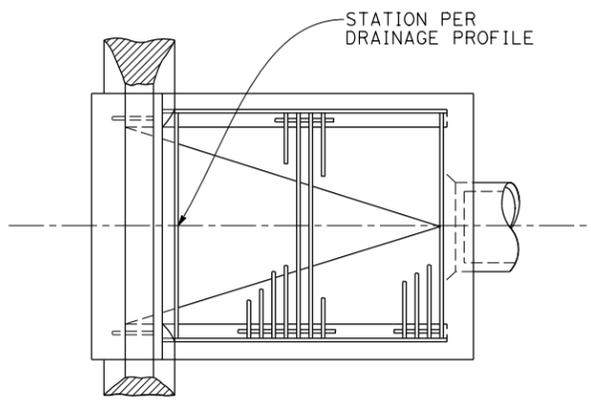
ELEVATION



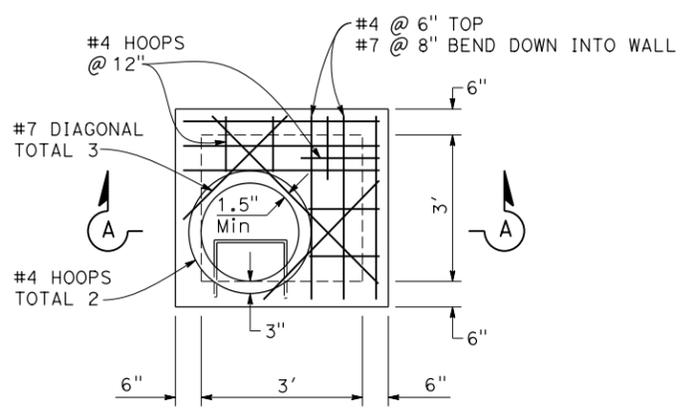
SECTION A-A



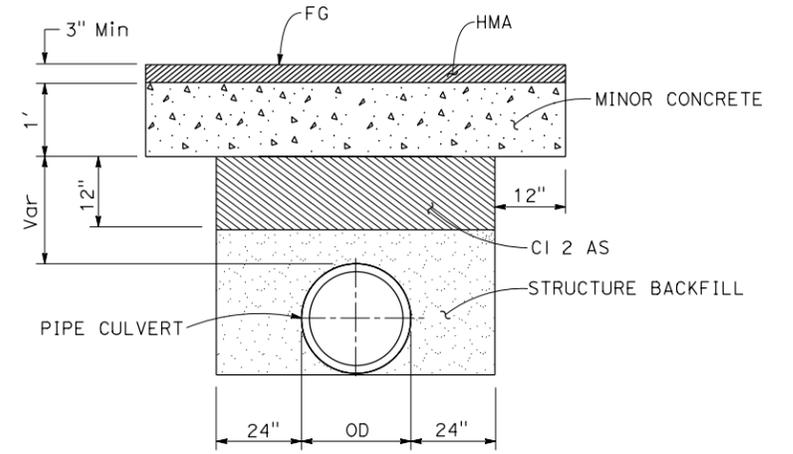
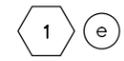
PIPE COVER DEPTH IS LESS THAN 2'-3"
CONCRETE BACKFILL



PLAN
GDO INLET
 ADJACENT TO CURB



PLAN
G2 MANHOLE



PIPE COVER DEPTH IS GREATER THAN 2'-3"
TRENCH PAVING

DRAINAGE DETAILS
 NO SCALE

DD-1

DATE PLOTTED => 03-APR-2015 TIME PLOTTED => 07:17

ABBREVIATIONS:
 GD GUTTER DEPRESSION
 S STANDARD JOINT TYPE
 SGD STANDARD GUTTER DEPRESSION

NOTE:
 1. THE HEIGHT OF INLET "H" IS THE DIFFERENCE IN ELEVATION BETWEEN THE TG AND THE OUTLET PIPE FLOWLINE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	29.7	10	16

Peter Y. Batio 11/4/14
 REGISTERED CIVIL ENGINEER DATE

3-30-15
 PLANS APPROVAL DATE

Peter Y. Batio
 No. 52068
 Exp. 2-31-16
 CIVIL
 STATE OF CALIFORNIA

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DRAINAGE QUANTITIES

DRAINAGE SYSTEM No.	DRAINAGE UNIT	FRAME AND GRATE COVER (N)										DESCRIPTION	STATION	DRAINAGE PLAN SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT					
		REMOVE CULVERT	REMOVE INLET	MINOR CONCRETE MINOR STRUCTURE BACKFILL	MINOR CONCRETE	18" PLASTIC PIPE (PP)	(TYPE 24-12X)	U45 MANHOLE	18" CSPDD (0.079" THICK)	ANCHOR ASSEMBLY	MISCELLANEOUS IRON AND STEEL						MAXIMUM COVER (N)	HEIGHT OF INLET (N)	PIPE JOINT CLASSIFICATION (N)		
LF	EA	CY	LF	EA	LF	EA	LB	FT													
1	a	1															REMOVE INLET	17.9' Lt "F" 64+10.9	D-1	1	a
	b	70															REMOVE CULVERT	14.9' Lt "F" 64+10.9 TO 55.1' Rt "F" 64+13.7			b
	c		1.62	10.4	2		473	5.6	2.3								GDO INLET	17.9' Lt "F" 64+10.9			c
	d		4	63										S			18" PP w/Conc BACKFILL (PORTION)	13.9' Lt "F" 64+10.9 TO 48.5' Rt "F" 64+13.7			d
	e		2.39			1		435	5.6	7.2							G2 MH	50' Rt "F" 64+13.7			e
	f						85	6						DD			18" CSP w/ DD JOINTS, TEE AND 6 ANCHOR ASSEMBLIES	51.5' Rt "F" 64+13.7 TO 121.0' Rt "F" 63+99.2			f
TOTAL		70	1	4.01	4	10.4	63	2	1	85	6	908									

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

DRAINAGE QUANTITIES

DQ-1

LAST REVISION 12-04-14 DATE PLOTTED => 03-APR-2015 TIME PLOTTED => 07:17

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	No. OF SIGNS
1	W20-1	ROAD WORK AHEAD	36" x 36"	(ONE) 4" x 6"	2
2	G20-2	END ROAD WORK	36" x 18"	(ONE) 4" x 4"	2

NOTE:

1. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.

LEGEND:

No. CONSTRUCTION AREA SIGN NUMBER

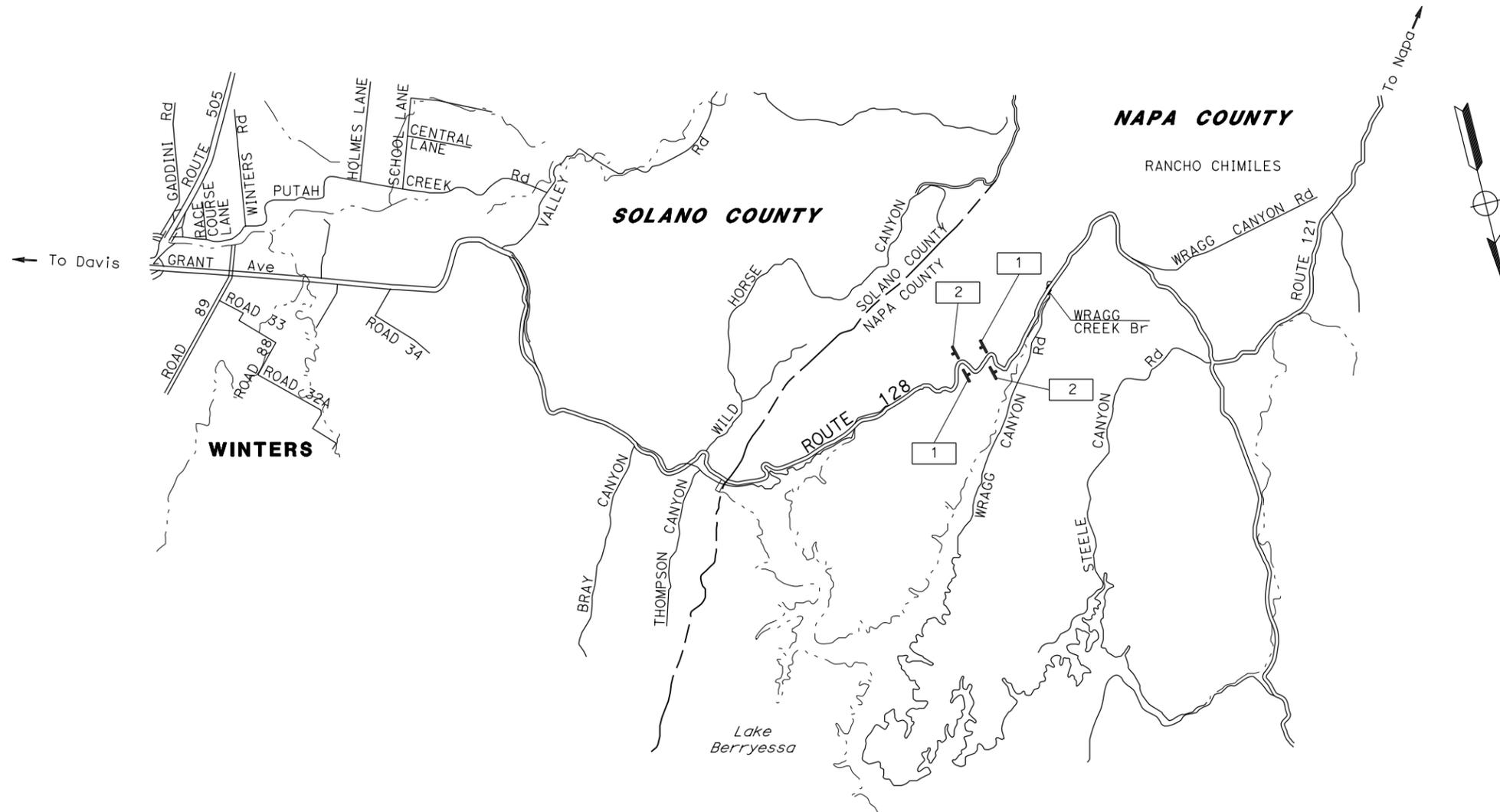
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	29.7	11	16

Jerilyn L. Struven 11/3/14
 REGISTERED CIVIL ENGINEER DATE

3-30-15
 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.

REGISTERED PROFESSIONAL ENGINEER
 Jerilyn L. Struven
 No. 49964
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC
 FUNCTIONAL SUPERVISOR
 ROLAND AU-YEUNG
 CHECKED BY
 HENRY TAM
 JERILYN STRUVEN
 REVISIONS: 11/3/14
 DATE REVISION: 11/3/14

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans WATER QUALITY

SENIOR LANDSCAPE ARCHITECT
 DAVID W. YAM

CHECKED BY
 CALIE TSUI
 DAVID YAM

REVISOR BY
 DATE REVISED

CT
 7/16/14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	29.7	13	16


 LICENSED LANDSCAPE ARCHITECT
 3-30-15
 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.

FIBER ROLLS

ITEM	MATERIAL		REMARKS
	DESCRIPTION	TYPE	
FIBER ROLLS	FIBER ROLL	TYPE B 8" TO 10" Dia	TYPE 1 FIBER ROLL INSTALLATION

SEED MIX

BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
BROMUS CARINATUS ¹ (CALIFORNIA BROME)	85	9
LUPINUS BICOLOR (BICOLOR LUPINE)	80	8
ACHILLEA MILLEFOLIUM ¹ (WESTERN YARROW)	85	7
NASELLA PULCHRA (PURPLE NEEDLEGRASS)	85	10
VULPIA MICROSTACHYS ¹ (SMALL FESCUE)	90	6
HORDEUM BRACHYANTHERUM ¹ (MEADOW BARLEY)	80	10

¹ SEED PRODUCED IN CALIFORNIA ONLY.

EROSION CONTROL

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	REMARKS
		DESCRIPTION	TYPE		
STEP 1	ROLLED EROSION CONTROL PRODUCT (NETTING)	NETTING	TYPE A		
STEP 2	FIBER ROLLS	FIBER ROLL	TYPE B 8" TO 10" Dia		TYPE 1 FIBER ROLL INSTALLATION
STEP 3	HYDROSEED	SEED	MIX 1	50 LB/ACRE	
		FIBER	COMBINATION	2,000 LB/ACRE	
STEP 4	HYDROMULCH	FIBER	COMBINATION	2,000 LB/ACRE	
		TACKIFIER	GUAR	200 LB/ACRE	

EROSION CONTROL QUANTITY

SHEET	DESCRIPTION	ROLLED EROSION CONTROL PRODUCT (NETTING)	HYDROSEED	HYDROMULCH	FIBER ROLLS
		SQFT	SQFT	SQFT	LF
EC-1	EROSION CONTROL TYPE 1	18,000	18,000	18,000	
	FIBER ROLLS				285
TOTAL		18,000	18,000	18,000	285

EROSION CONTROL LEGEND AND QUANTITIES

ECL-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	29.7	14	16
 LICENSED LANDSCAPE ARCHITECT 3-30-15 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>					
					

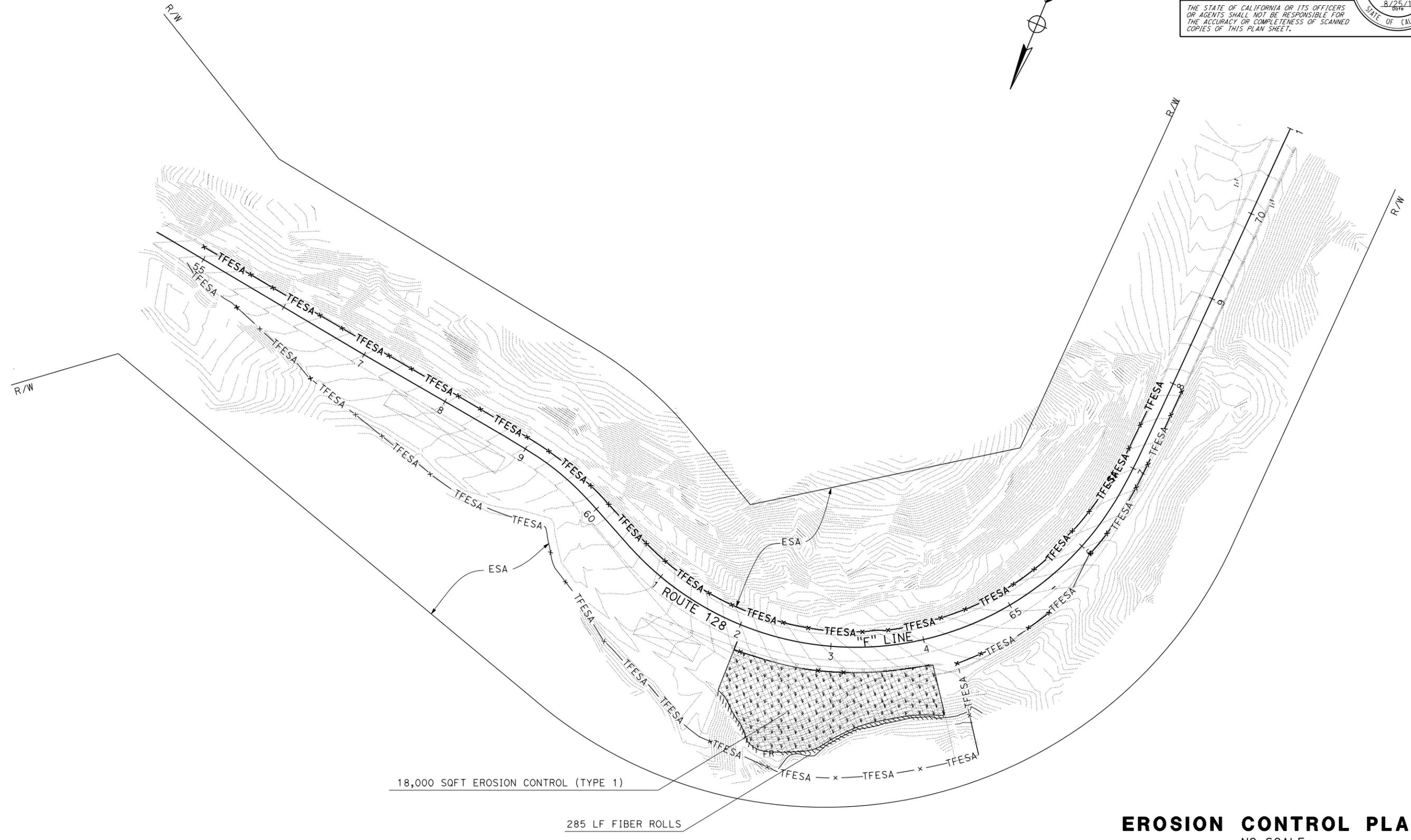
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:

-  EROSION CONTROL (TYPE 1)
- TFESA * — TEMPORARY FENCE (TYPE ESA)



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	WATER QUALITY	SENIOR LANDSCAPE ARCHITECT	CHECKED BY	REVISOR	DATE
	Caltrans	DAVID W YAM	DAVID YAM	PB	8/25/14



EROSION CONTROL PLAN
 NO SCALE

EC-1

APPROVED FOR EROSION CONTROL WORK ONLY

LAST REVISION 08-25-14
 DATE PLOTTED => 03-APR-2015
 TIME PLOTTED => 07:17

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
ObItr	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

M

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

P continued

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
Σ	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
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
ToT	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

S

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
WWLOL	WINGWALL LAYOUT LINE
X Sec	CROSS SECTION
Xing	CROSSING
Yr	YEAR
Yrs	YEARS

T continued

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	128	29.7	15	16

Grace M. Tsuchida
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.

REGISTERED PROFESSIONAL ENGINEER
Grace M. Tsuchida
No. C49814
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 3-30-15

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.

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

NOTES:

See Revised Standard Plan RSP T9 for tables.

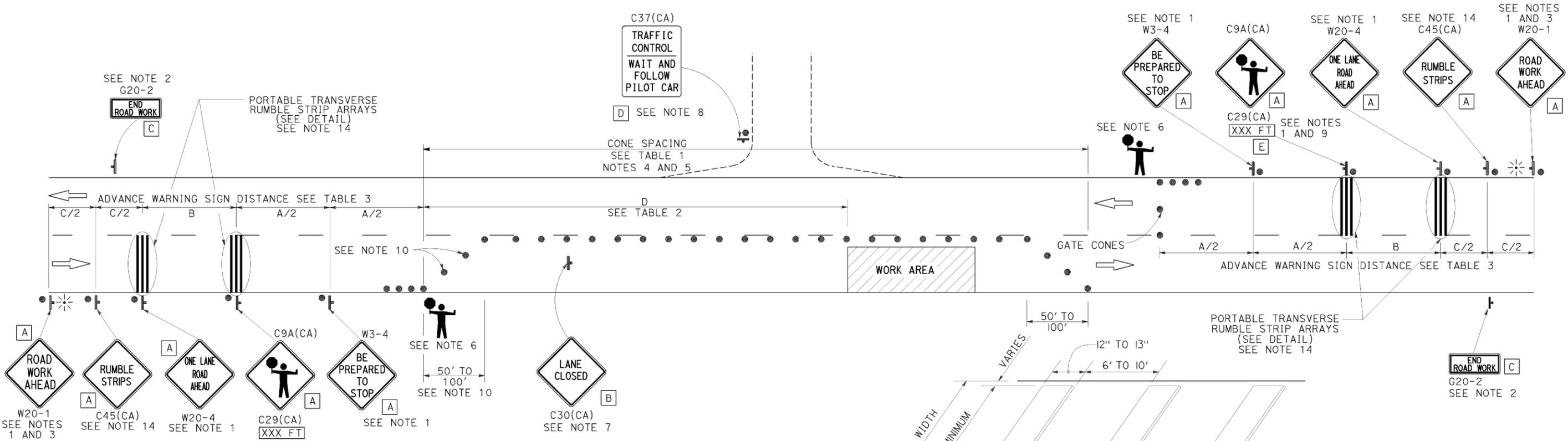
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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.

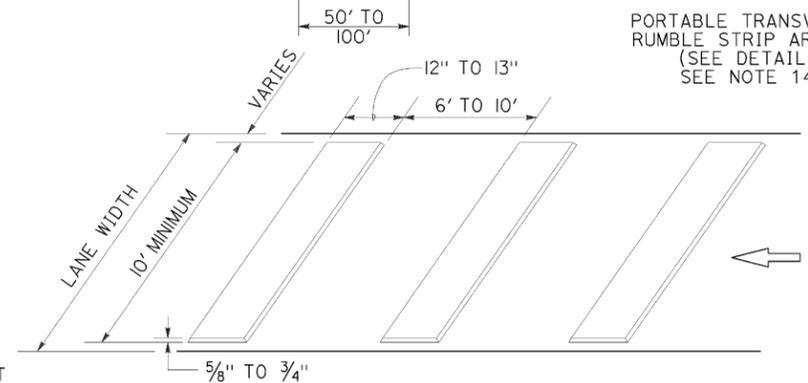
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 3-30-15



- 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.
- The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
- Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
- If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
- Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions



PORTABLE TRANSVERSE RUMBLE STRIP ARRAY DETAIL

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 OCTOBER 17, 2014 SUPERSEDES RSP T13 DATED JULY 18, 2014 AND RSP T13 DATED APRIL 19, 2013 AND 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