INDEX OF PLANS

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5-6	CONSTRUCTION DETAILS
7	CONTOUR GRADING
8	CONSTRUCTION AREA SIGNS
9	TRAFFIC HANDLING DETAILS
10	SUMMARY OF QUANTITIES
11	PLANT LEGEND
12-13	PLANTING PLANS
14	MODIFY LIGHTING
15	ELECTRICAL QUANTITIES
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STRUCTURE PLANS

35-38	LAMONT ODETT VISTA POINT

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

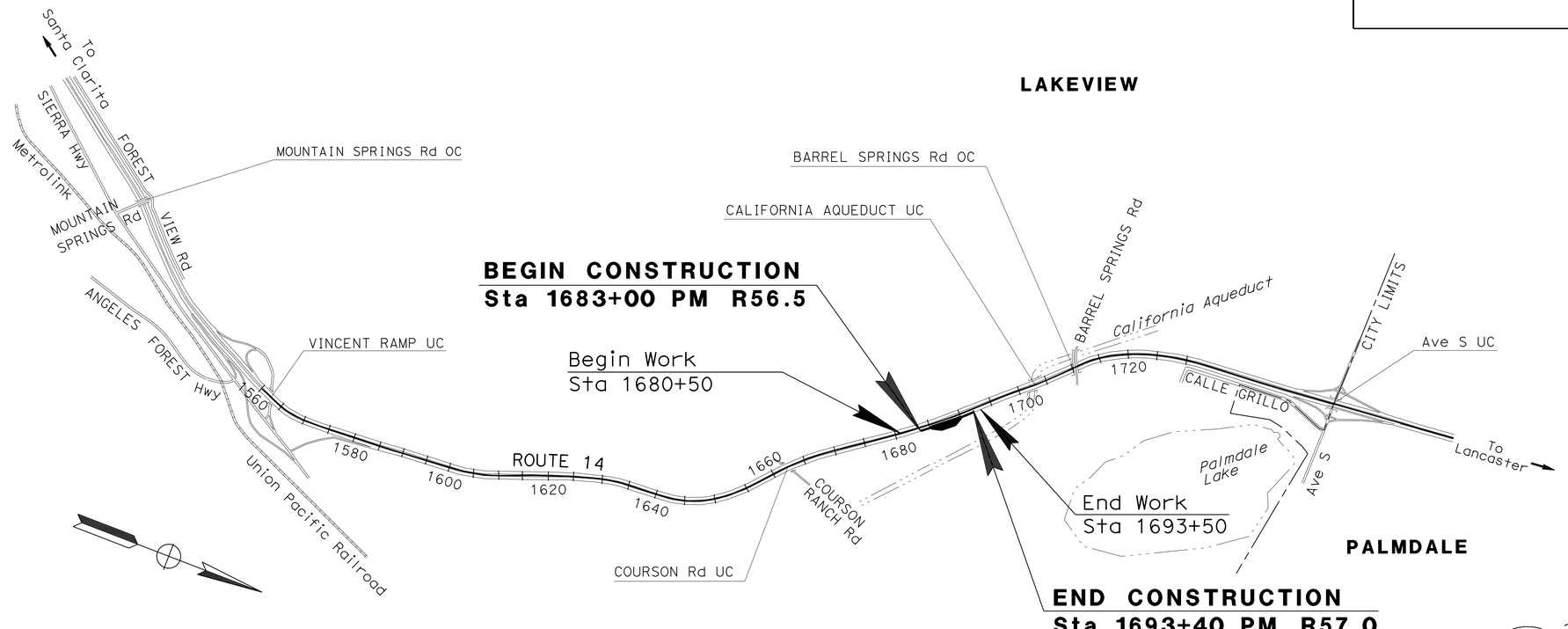
ACSTP-P014(073)E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	1	38

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN LOS ANGELES COUNTY NEAR PALMDALE FROM 0.3 MILE NORTH OF COURSON RANCH ROAD UNDERCROSSING TO 0.3 MILE SOUTH OF BARREL SPRINGS ROAD OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LICENSED LANDSCAPE ARCHITECT

January 13, 2014

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.

LICENSED LANDSCAPE ARCHITECT — DUC T. TRINH No. 5457 — Signature — 11-30-15 Renewal Date — 09-16-13 Date — STATE OF CALIFORNIA

PROJECT MANAGER: DAVID H. MIRAANEY

SENIOR LANDSCAPE ARCHITECT: PATTY WATANABE

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

NO SCALE

CONTRACT No.	07-284504
PROJECT ID	0700021180

LAST REVISION 00-00-00

DATE PLOTTED => 11-FEB-2014
TIME PLOTTED => 12:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	2	38

REGISTERED CIVIL ENGINEER — 1/07/14 DATE

MOHAMMAD NOSRATI No. 59597 Exp 12/31/15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

1-13-14
PLANS APPROVAL DATE

NOTE:

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

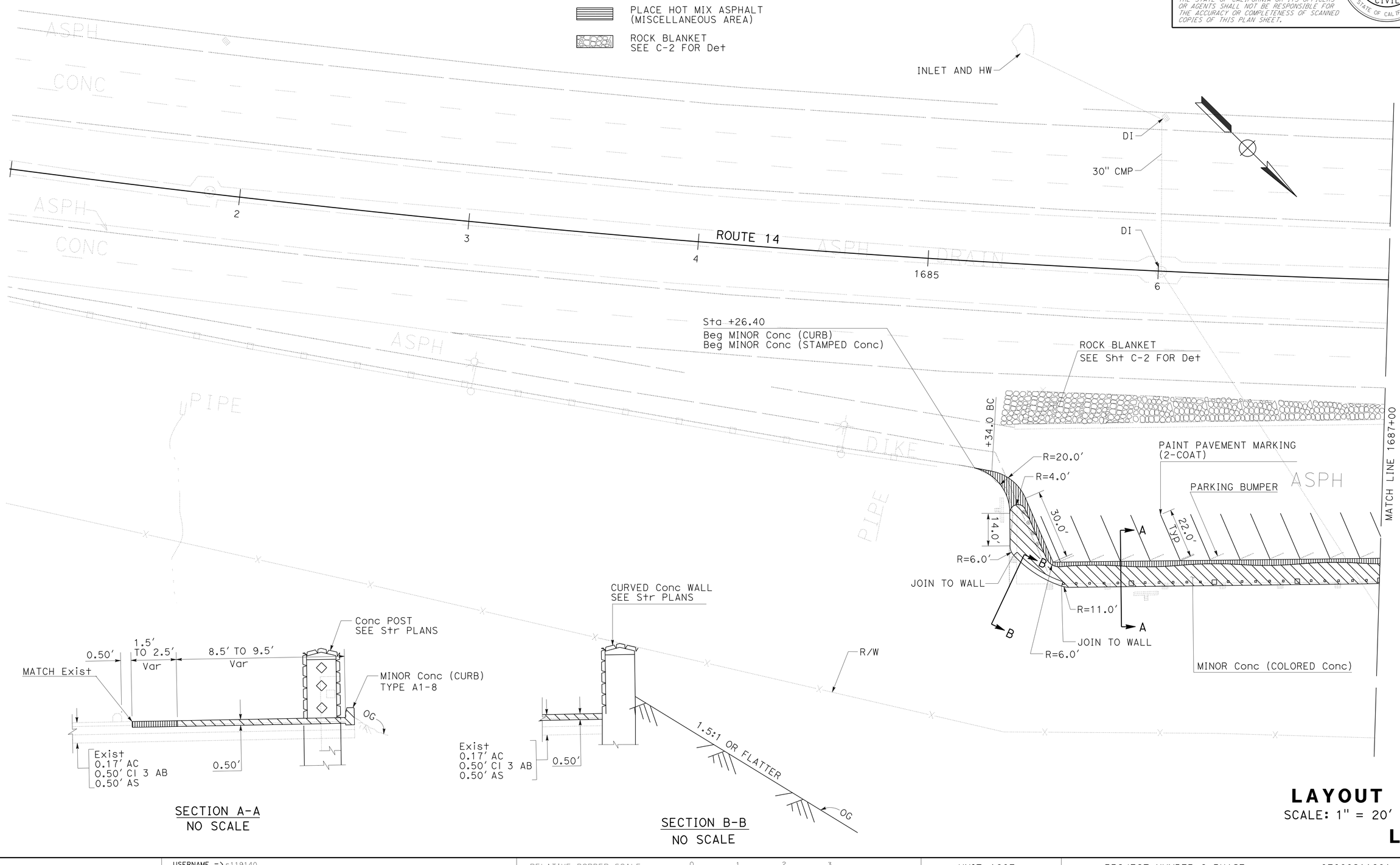
LEGEND:

MINOR CONCRETE (COLORED CONCRETE), MEDIUM BROOM FINISH
SEE Sht C-1 FOR Det

MINOR CONCRETE (STAMPED CONCRETE), MOUNTAIN FLAG STONE PATTERN
SEE Sht C-1 FOR Det

PLACE HOT MIX ASPHALT
(MISCELLANEOUS AREA)

ROCK BLANKET
SEE C-2 FOR Det



SECTION A-A
NO SCALE

SECTION B-B
NO SCALE

LAYOUT

SCALE: 1" = 20'

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN	FUNCTIONAL SUPERVISOR	CHARLES TON
CALCULATED-DESIGNED BY	MOHAMMAD NOSRATI	REVISED BY	
CHECKED BY	DUC TRINH	DATE REVISED	

LAST REVISION | DATE PLOTTED => 11-FEB-2014
00-00-00 | TIME PLOTTED => 12:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	3	38

Mohammad Nosrati — 1-7-14
REGISTERED CIVIL ENGINEER — DATE

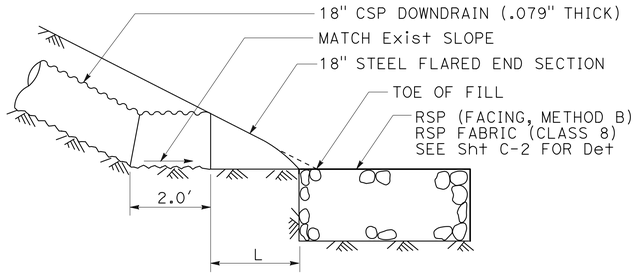
1-13-14
PLANS APPROVAL DATE

MOHAMMAD NOSRATI No. 59597 Exp. 12/31/15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — 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:

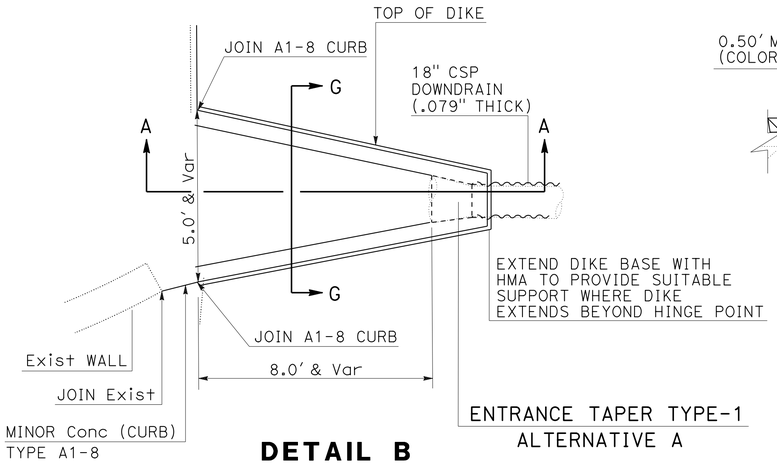
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PROFILE

DETAIL C

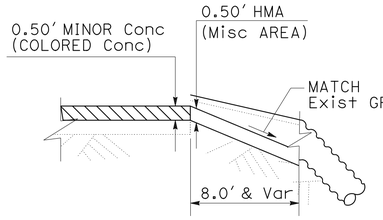
NO SCALE



DETAIL B

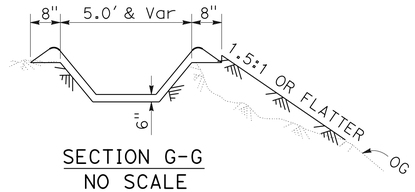
NO SCALE

ENTRANCE TAPER TYPE-1
ALTERNATIVE A



SECTION A-A

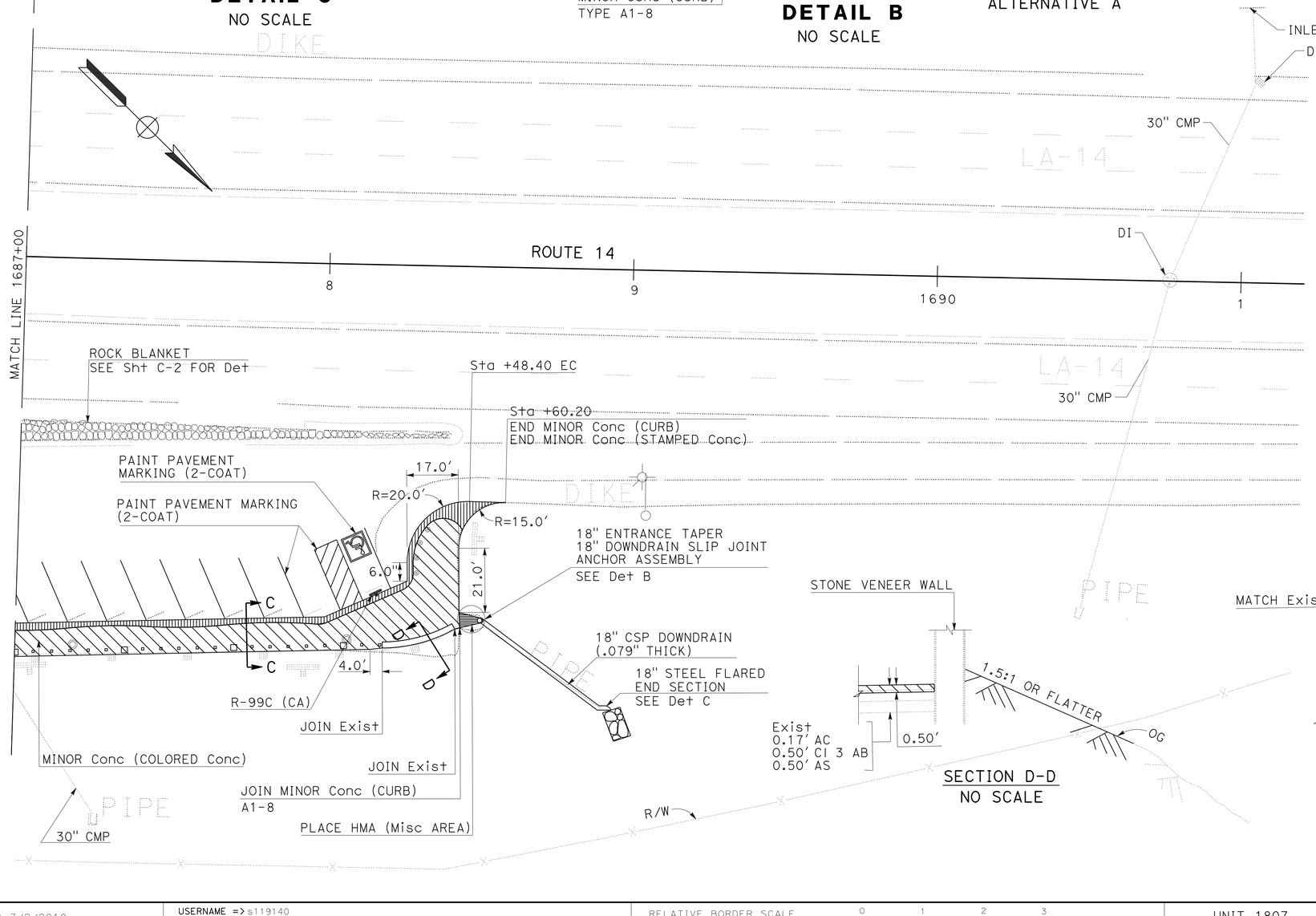
NO SCALE



SECTION G-G

NO SCALE

MOUNTABLE DIKE

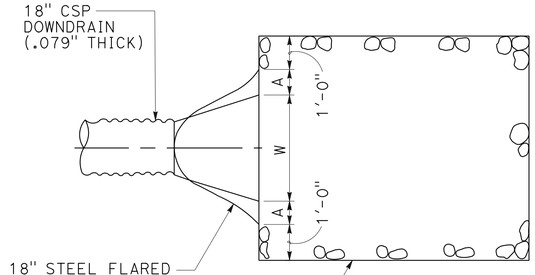


SECTION D-D

NO SCALE

SECTION C-C

NO SCALE



PLAN

DETAIL C

NO SCALE

LAYOUT

SCALE: 1" = 20'

L-2

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MOHAMMAD NOSRATI
CHECKED BY: DUC TRINH
FUNCTIONAL SUPERVISOR: CHARLES TON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION | DATE PLOTTED => 11-FEB-2014
00-00-00 | TIME PLOTTED => 12:39

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 728450ea002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1807 | PROJECT NUMBER & PHASE 07000211801

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	4	38

Mohammad Nosrati — REGISTERED CIVIL ENGINEER — 1-7-14 DATE

1-13-14 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MOHAMMAD NOSRATI — No. 59597 — Exp. 12/31/15 — 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.

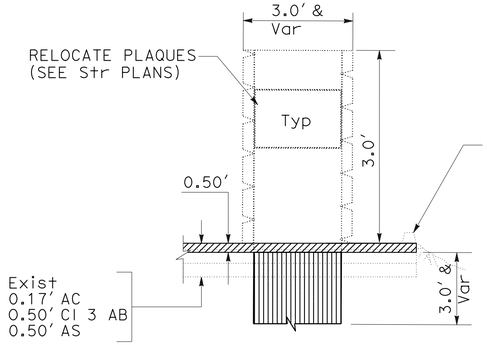
NOTE:

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

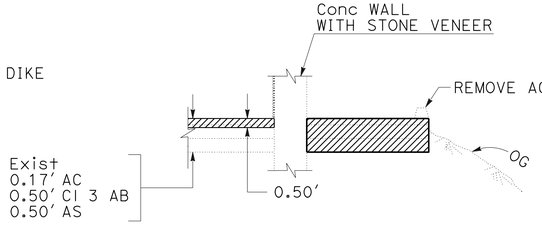
LEGEND:

REMOVE AC SURFACING

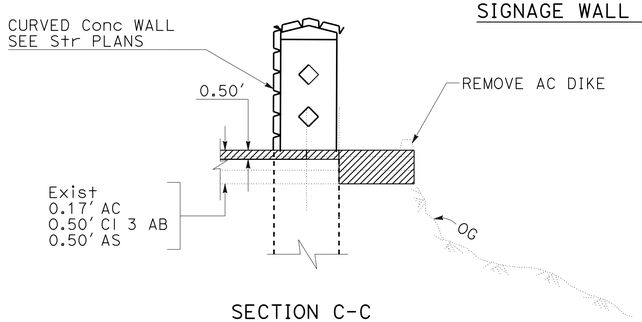
Str Bkf



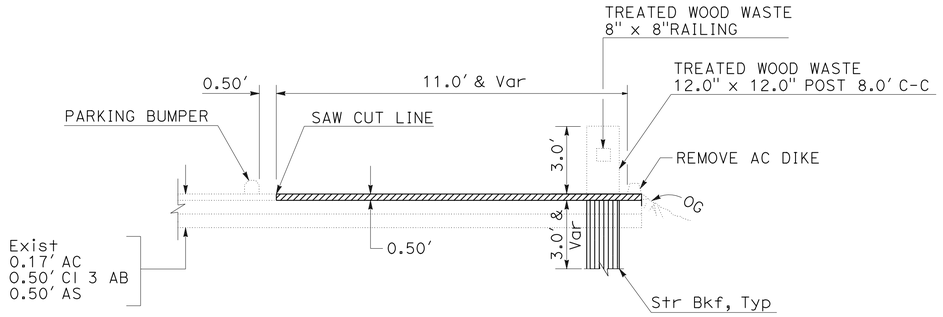
DETAIL A
NO SCALE
Typ
REMOVE CONCRETE SIGNAGE WALL



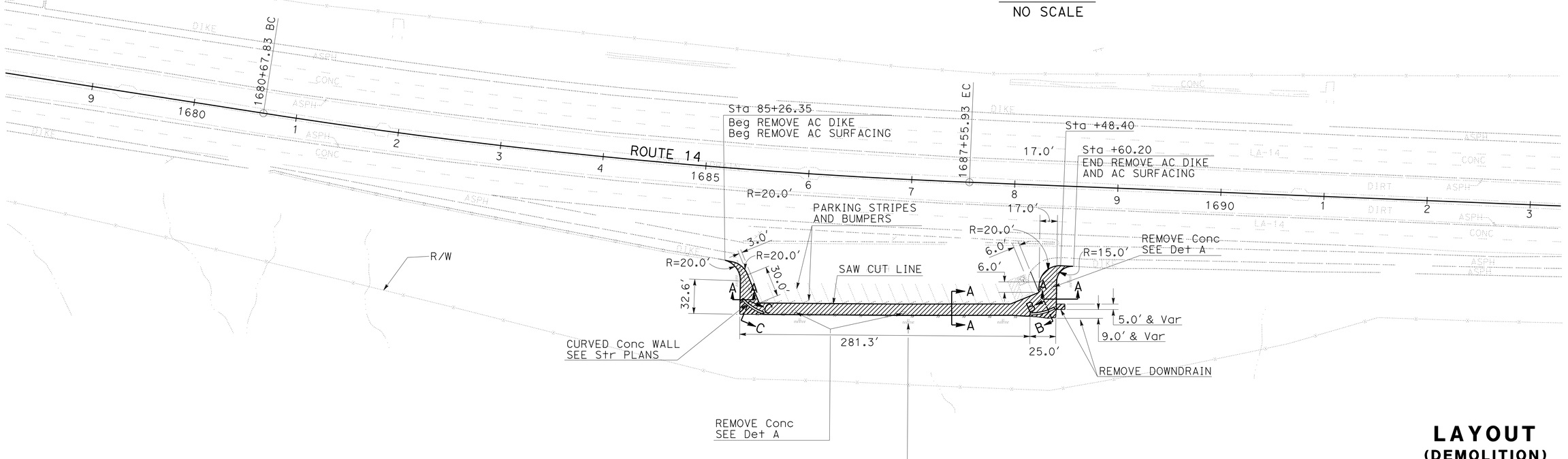
SECTION B-B
NO SCALE



SECTION C-C
NO SCALE



SECTION A-A
NO SCALE



LAYOUT
(DEMOLITION)
SCALE: 1" = 50'

L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

FUNCTIONAL SUPERVISOR: CHARLES TON

CALCULATED-DESIGNED BY: MOHAMMAD NOSRATI

CHECKED BY: DUC TRINH

REVISED BY	DATE REVISED

LAST REVISION: 00-00-00

DATE PLOTTED => 11-FEB-2014
TIME PLOTTED => 12:39

BORDER LAST REVISED 7/2/2010

USERNAME => s119140
DGN FILE => 728450ea003.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1807

PROJECT NUMBER & PHASE 07000211801

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	5	38

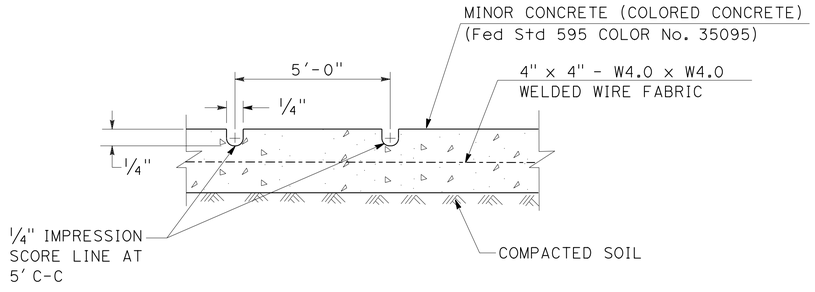
LICENSED LANDSCAPE ARCHITECT

1-13-14
PLANS APPROVAL DATE

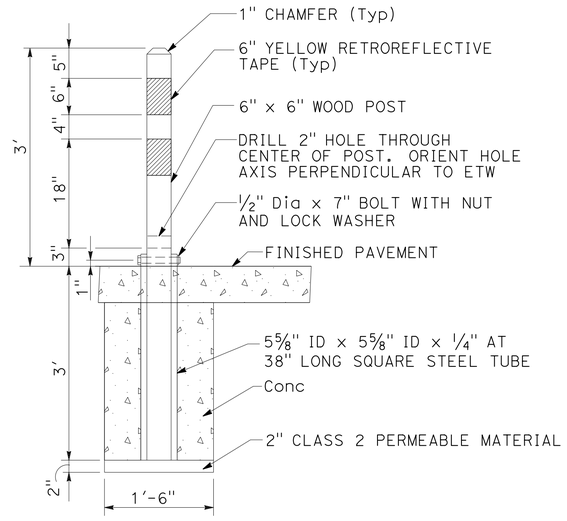
LICENSED LANDSCAPE ARCHITECT
DUC T. TRINH
No. 5457
Signature
11-30-15
Renewal Date
09-16-13
Date
STATE OF CALIFORNIA

NOTE:

1. MINOR CONCRETE (CURB), STAMPED CONCRETE AND COLORED CONCRETE MUST BE INTEGRAL COLOR CONCRETE.

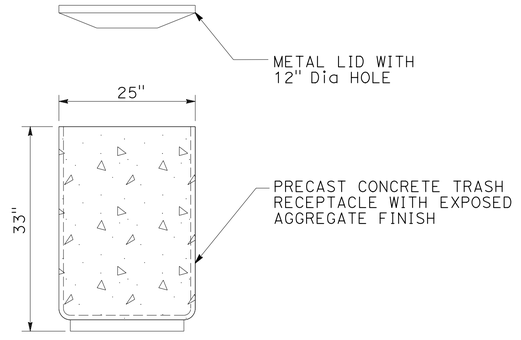


IMPRESSION SCORE LINE (A)

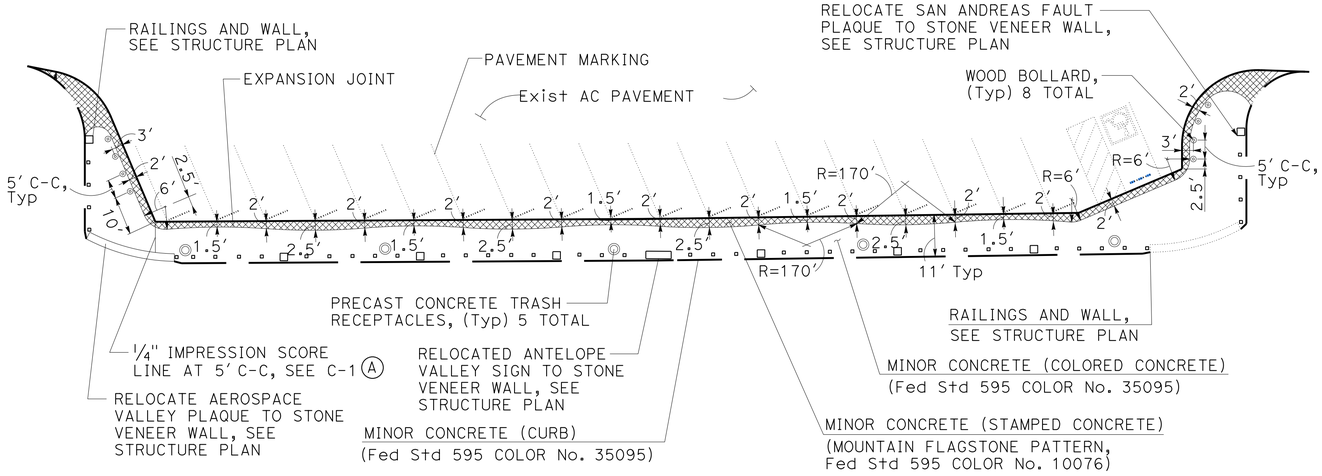


WOOD BOLLARDS

NOTE: POSTS SPACING AT 5' O/C

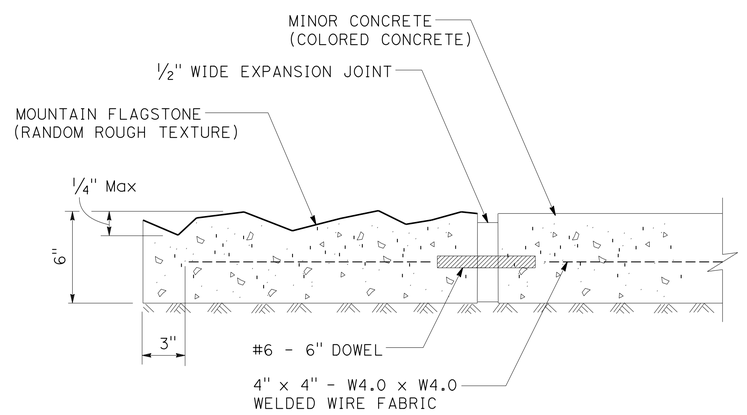


PRECAST CONCRETE TRASH RECEPTACLE



PLAN

MINOR CONCRETE (STAMPED CONCRETE) PLAN



MINOR CONCRETE (COLORED CONCRETE) MOUNTAIN FLAGSTONE SECTION PATTERN

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT: PATTY WATANABE
CALCULATED-DESIGNED BY: PATTY WATANABE
CHECKED BY: DUC T. TRINH
REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => 11-FEB-2014
00-00-00 | TIME PLOTTED => 12:39

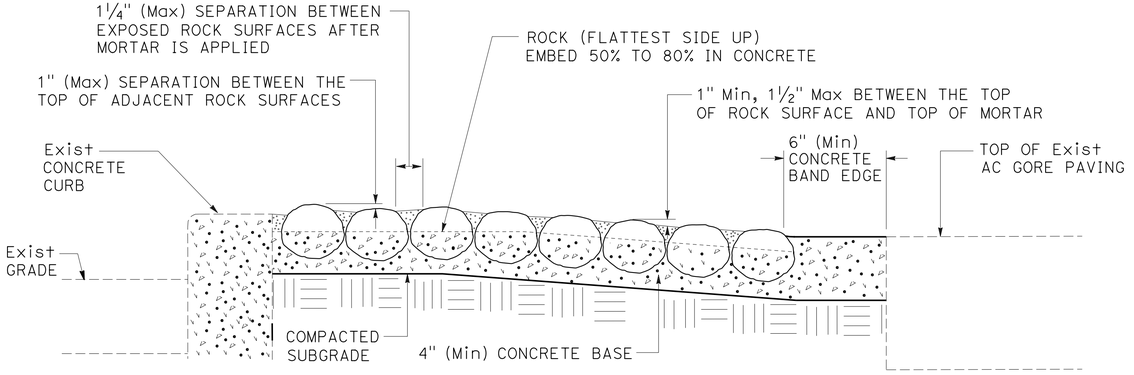
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	6	38

LICENSED LANDSCAPE ARCHITECT

1-13-14
PLANS APPROVAL DATE

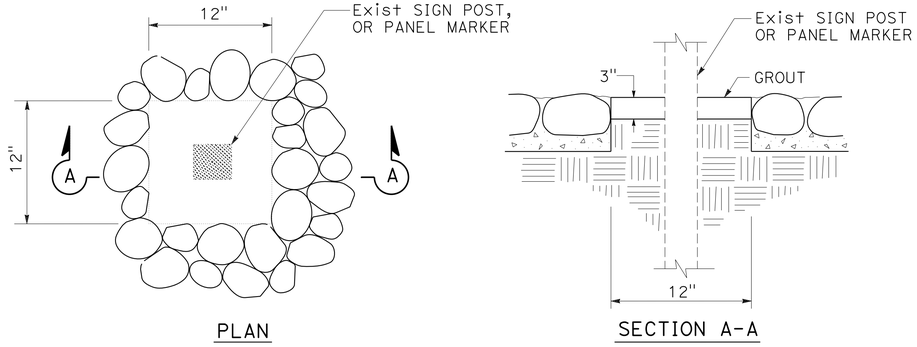
LICENSED LANDSCAPE ARCHITECT
DUC T. TRINH
No. 5457
Signature
11-30-15
Renewal Date
09-16-13
Date
STATE OF CALIFORNIA

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.



SECTION

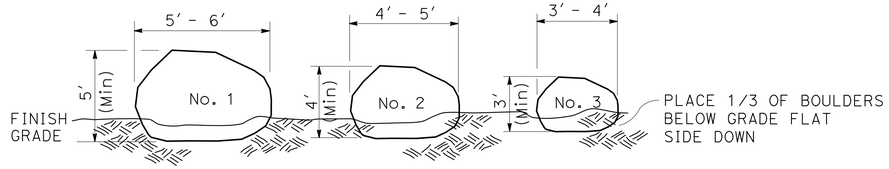
ROCK BLANKET



PLAN

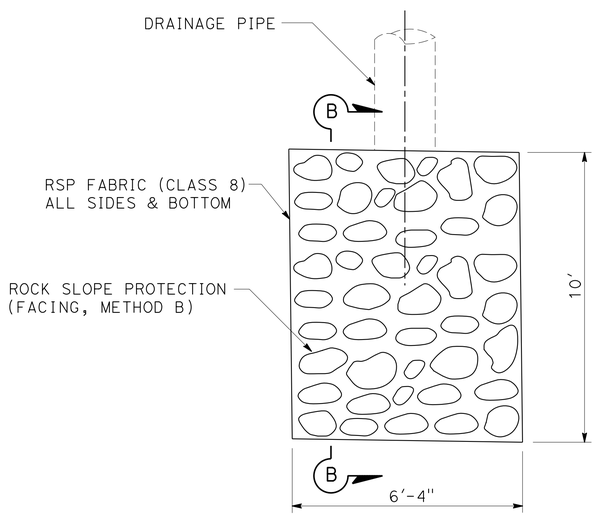
SECTION A-A

POST TREATMENT AT ROCK BLANKET

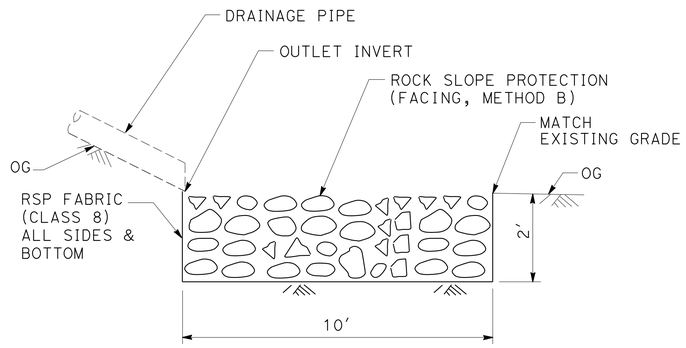


BOULDER SIZES

PLACE BOULDERS 48" Min FROM EDGE OF PAVEMENT, CURB, OR FENCE

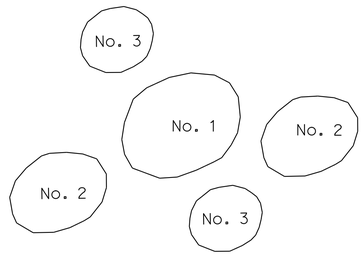


PLAN



SECTION B-B

ROCK SLOPE PROTECTION DETAIL (FACING, METHOD B)



BOULDER PLACEMENT

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT: PATTY WATANABE
CALCULATED-DESIGNED BY: PATTY WATANABE
CHECKED BY: DUC T. TRINH
REVISED BY
DATE REVISED

LAST REVISION: DATE PLOTTED => 00-00-00
TIME PLOTTED =>

BORDER LAST REVISED 7/2/2010
USERNAME => s119140
DGN FILE => 728450ga002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1851
PROJECT NUMBER & PHASE 07000211801

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.7	7	38

Mohammad Nosrati 1/07/14
REGISTERED CIVIL ENGINEER DATE

1-13-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD NOSRATI
No. 59597
Exp 12/31/15
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.

LEGEND:

REMOVE AC SURFACING

STONE VENEER WALL

Exist
0.17' AC
0.50' Cl 3 AB
0.50' AS

1.5:1 OR FLATTER

0.50'

OG

SECTION B-B
NO SCALE

CURVED Conc WALL
SEE Str PLANS

Exist
0.17' AC
0.50' Cl 3 AB
0.50' AS

17.0' & Var

1.5:1 OR FLATTER

0.50'

OG

SECTION A-A
NO SCALE

0.50'

10.0' & Var

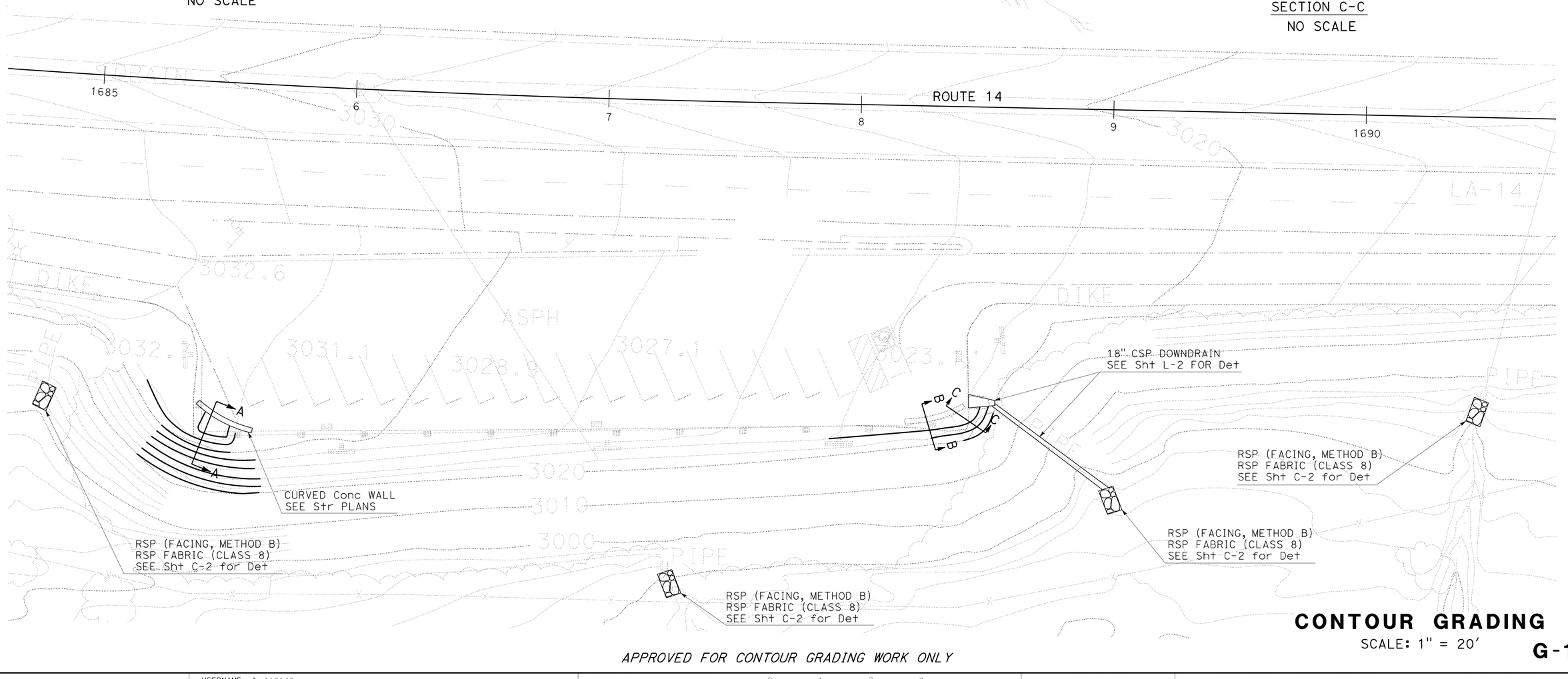
1.51 OR FLATTER

STONE VENEER WALL

Exist
0.17' AC
0.50' Cl 3 AB
0.50' AS

OG

SECTION C-C
NO SCALE



CONTOUR GRADING

SCALE: 1" = 20'

G-1

APPROVED FOR CONTOUR GRADING WORK ONLY

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MOHAMMA NOSRATI
CHECKED BY: DUC TRINH
FUNCTIONAL SUPERVISOR: CHARLES TON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION DATE PLOTTED => 11-FEB-2014
00-00-00 TIME PLOTTED => 12:39

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 728450hga001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1807 | PROJECT NUMBER & PHASE 07000211801

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	8	38

Greg Basil 3/6/13
REGISTERED CIVIL ENGINEER DATE

1-13-14
PLANS APPROVAL DATE

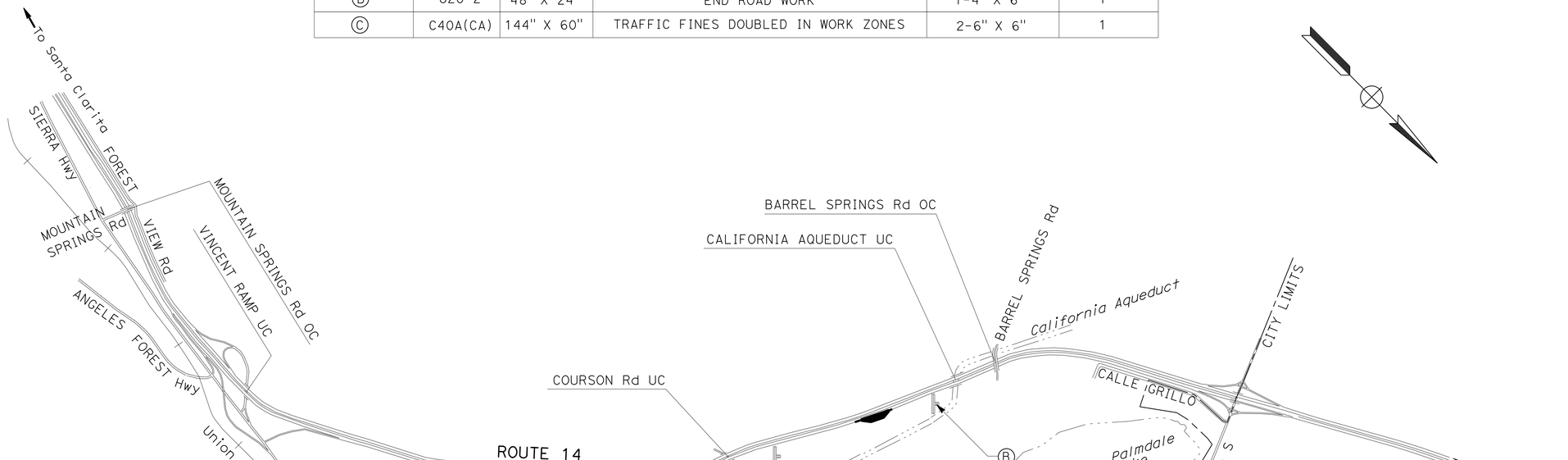
REGISTERED PROFESSIONAL ENGINEER
AREG BASIL
No. 53079
Exp. 6/30/15
CIVIL
STATE OF CALIFORNIA

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. LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. THE ENGINEER DETERMINES EXACT LOCATION.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED.
3. "TRAFFIC FINES DOUBLED IN WORK ZONE" MUST BE PLACED APPROXIMATELY 500 FEET IN ADVANCE OF "ROAD WORK AHEAD" SIGN OR AS THE ENGINEER DETERMINES.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN MARK	SIGN CODE	PANEL SIZE	SIGN MESSAGE	POST No. & SIZE	No. OF SIGNS
Ⓐ	W20-1	48" X 48"	ROAD WORK AHEAD	1-6" X 6"	1
Ⓑ	G20-2	48" X 24"	END ROAD WORK	1-4" X 6"	1
Ⓒ	C40A(CA)	144" X 60"	TRAFFIC FINES DOUBLED IN WORK ZONES	2-6" X 6"	1



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

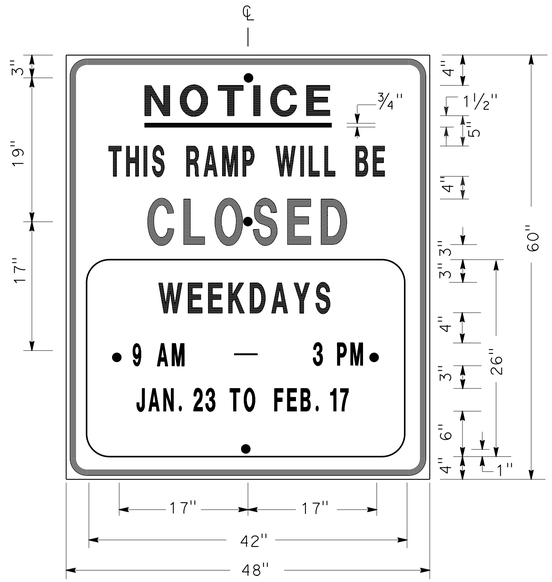
NO SCALE

CS-1

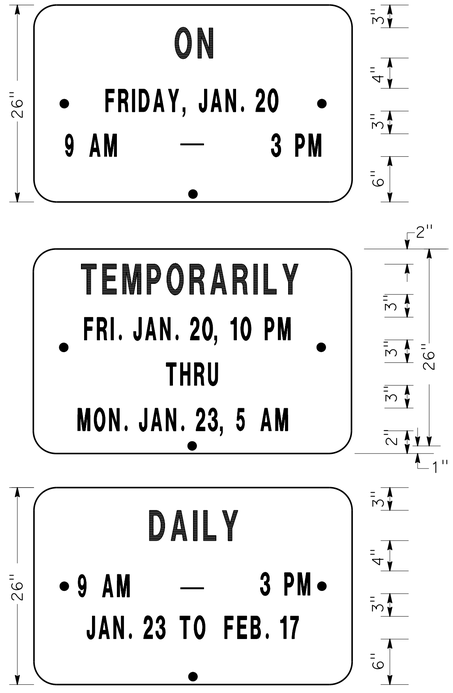
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **TRAFFIC DESIGN**
FUNCTIONAL SUPERVISOR: GRISH BIGLARIAN
CALCULATED-DESIGNED BY: RAHMAT KHARGHEHPOUSH
CHECKED BY: AREG BASIL
REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 11-FEB-2014
00-00-00 | TIME PLOTTED => 12:39

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 7284501a001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1877 | PROJECT NUMBER & PHASE 07000211801



SIGN SP-1



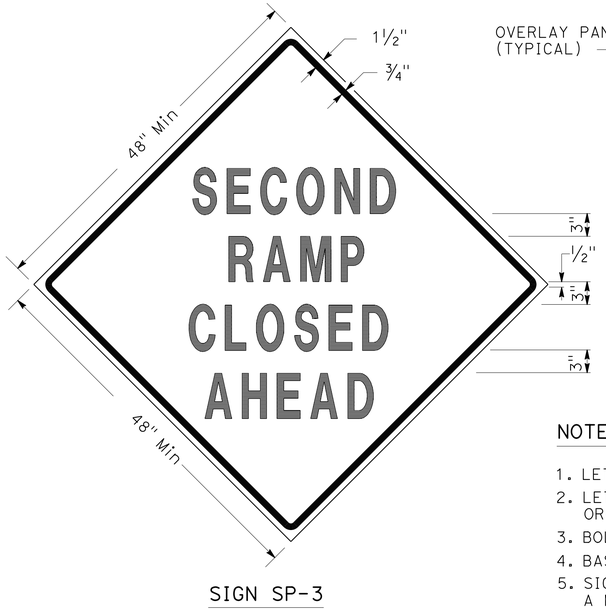
ALTERNATE OVERLAY PANELS (TYPICAL)

NOTES: (SIGN SP-1)

1. LETTERS AND BORDER SHALL BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
2. BOLT HOLES SHALL BE ⅜" DIAMETER.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7′ ABOVE GROUND.

SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5, 6, & 7*	
48"×60"	1¼"	¾"	4E	4D	6E	4D		3"
42"×26"	OVERLAY						3D	1½"
* CONDENSED SPACING IF NECESSARY								

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3

SIGN SP-5

NOTES: (SIGNS SP-3 & SP-5)

1. LETTERS - 6" SERIES D.
2. LETTERS AND BORDER SHALL BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
3. BOLT HOLES SHALL BE ⅜" DIAMETER.
4. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
5. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7′ ABOVE GROUND.
6. SIGN SP-5 SHALL BE USED IF THE OFF-RAMP TO BE CLOSED FOLLOWS A FREEWAY OFF-CONNECTOR.

SPECIAL SIGNS FOR EXIT RAMP CLOSURES

SIGN SP-4

NOTES: (SIGN SP-4)

1. LETTERS - 6" SERIES C.
2. LETTERS AND BORDER SHALL BE BLACK ON REFLECTORIZED WHITE BACKGROUND.
3. BOLT HOLES SHALL BE ⅜" DIAMETER.
4. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
5. SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH STANDARD PLAN TCS-2.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	9	38

Matt Oregel 11-07-13
REGISTERED CIVIL ENGINEER DATE

1-13-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARTIN OREGEL
No. C56816
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.

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS
SHEET 1 OF 2

NO SCALE

THD-1

CALCULATED-DESIGNED BY	REVISED BY	DATE REVISED
CHECKED BY	JC	3/12
ALBERT K YU		
JOCELYN C CHIANG		

FUNCTIONAL SUPERVISOR: MARTIN OREGEL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DTM

LAST REVISION: DATE PLOTTED => 11-FEB-2014
00-00-00 TIME PLOTTED => 12:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	10	38

LICENSED LANDSCAPE ARCHITECT

1-13-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT DUC T. TRINH No. 5457 Signature 11-30-13 Renewal date 09-15-13 Date 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.

PAVEMENT DELINEATION QUANTITIES

	SHEET No.	SQFT
PAINT PAVEMENT MARKING (2-COAT)	L-1	92
	L-2	115
TOTAL		207

SIGN QUANTITIES

ROADSIDE SIGN ONE POST	QUANTITY
TOTAL	1

ROADWAY QUANTITIES

SHEET NUMBER	STRUCTURE BACKFILL	IMPORTED BORROW	ROCK BLANKET	FURNISH SINGLE SHEET ALUMIMUN SIGN (0.063" UNFRAMED)
	CY	CY	SQFT	EA
G-1		100		
L-1			1,895	
L-2			797	1
L-3	10			
TOTAL	10	100	2,692	1

REMOVAL ITEMS

SHEET NUMBER	REMOVE ASPHALT CONCRETE SURFACING	REMOVE AC DIKE	REMOVE CONCRETE	TREATED WOOD WASTE
	SQFT	LF	CY	LB
L-3	4,650	430	5	20,000
TOTAL	4,650	430	5	20,000

MINOR CONCRETE

SHEET NUMBER	MINOR CONCRETE (COLORED CONCRETE)	MINOR CONCRETE (STAMPED CONCRETE)	MINOR CONCRETE (CURB)
	CY	SQFT	CY
L-1	32	420	5.5
L-2	32	420	5.5
TOTAL	64	840	11

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

TEMPORARY CONSTRUCTION ENTRANCE	TEMPORARY MULCH	TEMPORARY FIBER ROLL	TEMPORARY SILT FENCE
EA	SQYD	LF	LF
1	200	1,200	1,200

DRAINAGE QUANTITIES

SHEET NUMBER	REMOVE DOWNDRAIN	RSP (FACING, METHOD B)	RSP FABRIC (CLASS 8)	18" ENTRANCE TAPER	18" DD SLIP JOINT	18" CSP DOWNDRAIN (.079" THICK)	18" STEEL FLARED END SECTION	ANCHOR ASSEMBLY	PLACE HMA (Misc AREA)	MINOR HMA
	EA	CY	SQYD	EA	EA	LF	EA	EA	SQYD	TON
G-1		20	60							
L-2				1	1	50	1	1	15	6
L-3	1									
TOTAL	1	20	60	1	1	50	1	1	15	6

LANDSCAPE ELEMENTS

SHEET NUMBER	BOULDER		PRECAST CONCRETE TRASH RECEPTACLE	WOOD BOLLARD
	SIZE	EA	EA	EA
PP-1	No. 1	2		
	No. 2	4		
	No. 3	4		
PP-2	No. 1	3		
	No. 2	6		
	No. 3	6		
C-1			5	8
TOTAL		25	5	8

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED
DUC T. TRINH | PATTY WATANABE
CALCULATED-DESIGNED BY | CHECKED BY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT
PATTY WATANABE

LAST REVISION: 00-00-00 | DATE PLOTTED => 11-FEB-2014 | TIME PLOTTED => 12:39

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 728450pa001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1851 | PROJECT NUMBER & PHASE 07000211801

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	11	38

LICENSED LANDSCAPE ARCHITECT

1-13-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — DUC T. TRINH — No. 5457 — Signature — Renewal Date 11-30-15 — Date 09-16-13 — 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.

ABBREVIATIONS:

S - SPHAGNUM PEAT MOSS
N - NITROLIZED FIR BARK
V - VERMICULITE
P - PERLITE
TB - TREE BARK
WC - WOOD CHIP
SB - SHREDDED BARK
TT - TREE TRIMMING

PLANTING LEGEND

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH) Dia	HOLE SIZE (INCH) DEPTH	BASIN TYPE	SOIL AMENDMENT TYPE	SOIL AMENDMENT RATE	IRON SULFATE RATE	COMMERCIAL FERTILIZER ① PLANTING	COMMERCIAL FERTILIZER ① PLT ESTB	BASIN MULCH ① TYPE	BASIN MULCH ① CY	STAKING	PLANTING LIMITS MINIMUM DISTANCE (ft) FROM ETW	Pvmt	FENCE	WALL	PAVED DITCH	EARTH DITCH	ON CENTER (ft)	REMARKS
A	1	◎	LARREA TRIDENTATA	CREOSOTE BUSH	No. 1	137	③	③	II	—	—	—	4 oz	4 oz	WC	0.05 CY	—	—	5	5	5	5	5	5	SHRUB
	2	⊙	BACCHARIS PILULARIS	COYOTE BUSH	No. 1	142	③	③	II	—	—	—	4 oz	4 oz	WC	0.05 CY	—	—	5	5	5	5	5	5	SHRUB
B	3	⊕	HESPERALOE PARVIFLORA	RED YUCCA	No. 5	103	③	③	II	—	—	—	8 oz	8 oz	WC	0.08 CY	—	—	5	5	5	5	5	⑦	YUCCA
	4	◯	MUHLENBERGIA RIGENS	DEER GRASS	No. 5	119	③	③	II	—	—	—	8 oz	8 oz	WC	0.08 CY	—	—	3	3	3	3	3	⑦	GRASS
	5	⊛	JUNIPERUS CALIFORNICA	CALIFORNIA JUNIPER	No. 5	75	③	③	II	—	—	—	8 oz	8 oz	WC	0.08 CY	—	—	6	6	6	6	6	8	SHRUB
	6	Ⓥ	PENNISETUM SETACEUM 'RUBRUM'	PURPLE FOUNTAIN GRASS	No. 5	136	③	③	II	—	—	—	8 oz	8 oz	WC	0.08 CY	—	—	3	3	3	3	3	⑦	GRASS
	7	⊙	YUCCA WHIPPLEI	OUR LORD'S CANDLE	No. 5	85	③	③	II	—	—	—	8 oz	8 oz	WC	0.08 CY	—	—	5	5	5	5	5	⑦	YUCCA
K	8	⊙	CERCIDIUM MICROPHYLLUM	LITTLE LEAF PALO VERDE	No. 15	40	③	③	II	—	—	—	12 oz	12 oz	WC	0.16 CY	④	—	15	15	15	15	15	⑦	TREE
	9	⊙	CERCIDIUM X 'DESERT MUSEUM'	PALO VERDE DESERT MUSEUM	No. 15	34	③	③	II	—	—	—	12 oz	12 oz	WC	0.16 CY	④	—	15	15	15	15	15	⑦	TREE
U	10	⊙	CERCIDIUM X 'DESERT MUSEUM'	PALO VERDE DESERT MUSEUM	24" Box	4	③	③	II	—	—	—	20 oz	20 oz	WC	0.30 CY	④	—	15	15	15	15	15	⑦	TREE

NOTE:
UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATIONS USED ON PLANTING PLANS.

APPLICABLE WHEN CIRCLED:

① - QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SQYD APPLICATION RATES
2 - BASIN MULCH IS INCLUDED WITH MULCH QUANTITIES SHOWN ON PLANTING PLAN
③ - SUFFICIENT TO RECEIVE ROOT BALL AND AMENDMENTS IF REQUIRED
④ - SEE DETAIL
5 - SEE SPECIAL PROVISIONS
6 - SEE STANDARD SPECIFICATIONS
⑦ - AS SHOWN ON PLANS
8 - UNLESS OTHERWISE SHOWN ON PLANS
9 - FOLIAGE PROTECTOR REQUIRED
10 - ROOT PROTECTOR REQUIRED
11 - ROOT BARRIER REQUIRED
12 - DEPARTMENT-FURNISHED

LEGEND:

MULCH AREA

RC ROADSIDE CLEARING (REMOVE Exist PLANTS)

EROSION CONTROL - TYPE 1

Exist PLANTED AREAS to Remain

BOULDERS

WOOD MULCH

TYPE	LOCATION BASIN	LOCATION SPREAD	QUANTITY (CY)
WOOD CHIP	67	405	472
		TOTAL	472

PLANT QUANTITIES

ITEM	UNIT	QUANTITY
PLANT (GROUP A)	EA	279
PLANT (GROUP B)	EA	518
PLANT (GROUP K)	EA	74
PLANT (GROUP U)	EA	4

PLANT LEGEND

PL-1

REVISED BY | DATE REVISED
DUC T. TRINH | PATTY WATANABE
CALCULATED-DESIGNED BY | CHECKED BY
SENIOR LANDSCAPE ARCHITECT | PATTY WATANABE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | LANDSCAPE ARCHITECTURE

LAST REVISION | DATE PLOTTED => 11-FEB-2014 | 00-00-00 | TIME PLOTTED => 12:39

BORDER LAST REVISED 9/9/2010 | USERNAME => s119140 | DGN FILE => 728450st001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1851 | PROJECT NUMBER & PHASE 07000211801

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	12	38

LICENSED LANDSCAPE ARCHITECT

1-13-14
PLANS APPROVAL DATE

Registration
11-30-15
Renewal Date
09-16-13
Date

LICENSED LANDSCAPE ARCHITECT
DUC T. TRINH
No. 5457
STATE OF CALIFORNIA

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

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED.

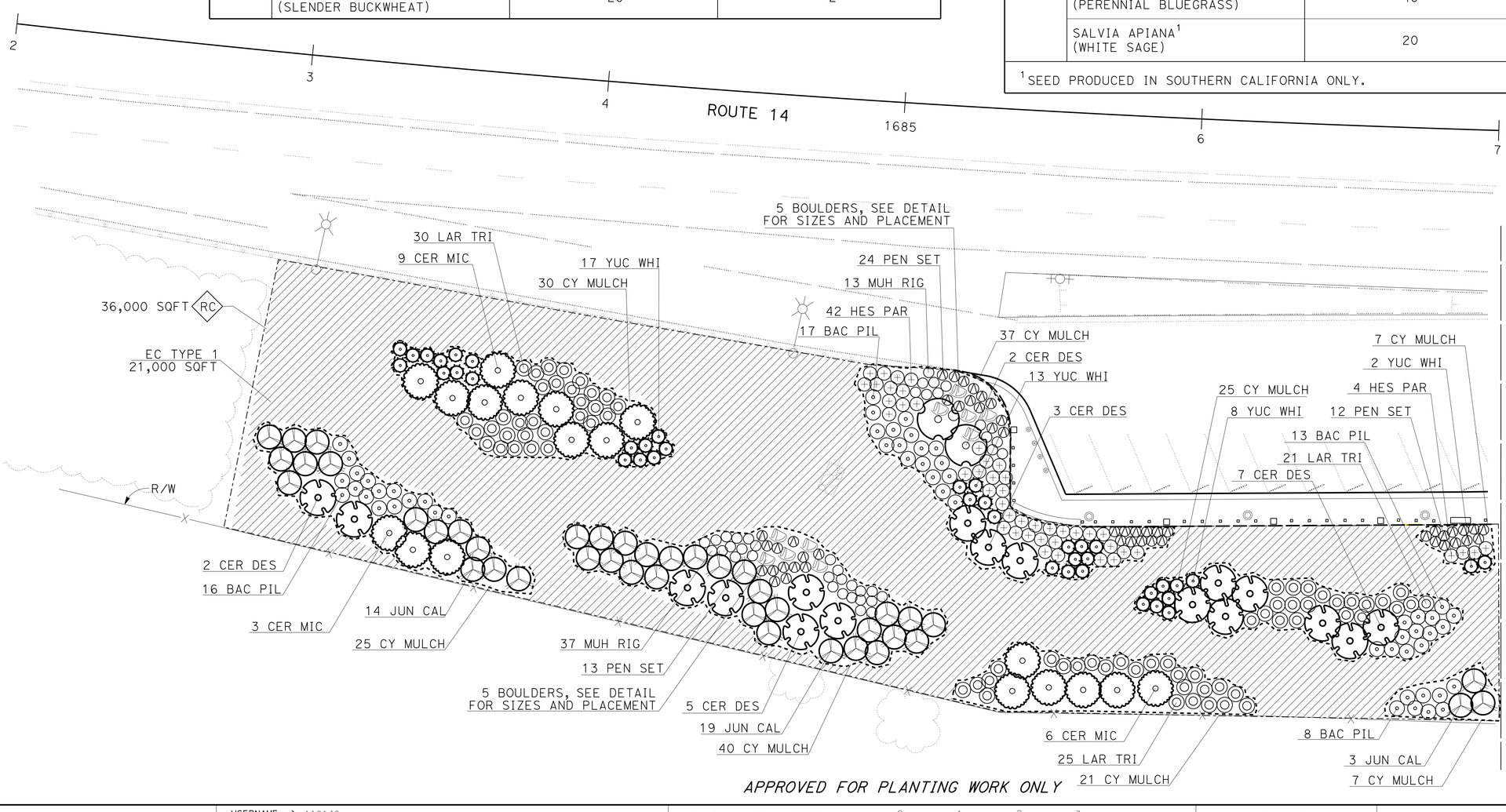
SEED MIX

SEED	BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
MIX 1	ARTEMISIA TRIDENTATA[1] (BIG SAGE BRUSH)	30	2
	BAILEYA MULTIRADIATA[1] (DESERT MARIGOLD)	30	1
	ENCELIA FARINOSA[1] (BRITTLEBUSH)	30	1
	ERICAMERIA LINEARIFOLIA[1] (INTERIOR GOLDENBUSH)	25	3
	ERIOGONUM GRACILE[1] (SLENDER BUCKWHEAT)	20	2

SEED MIX

SEED	BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
MIX 1	ERIOPHYLLUM CONFERTIFLORUM[1] (GOLDEN YARROW)	40	3
	LOTUS SCOPARIUS[1] (DEERWEED)	30	4
	LUPINUS BICOLOR[1] (PIGMY-LEAVED LUPINE)	30	3
	NASSELLA CERNUA[1] (FOOTHILL NEEDLEGRASS)	35	8
	POA SECUNDA[1] (PERENNIAL BLUEGRASS)	40	6
	SALVIA APIANA[1] (WHITE SAGE)	20	2

[1] SEED PRODUCED IN SOUTHERN CALIFORNIA ONLY.



APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN

SCALE: 1" = 20'

PP-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT: PATTY WATANABE
DUC T TRINH | PATTY WATANABE
CALCULATED-DESIGNED BY | CHECKED BY
REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 11-FEB-2014
00-00-00 | TIME PLOTTED => 12:39

BORDER LAST REVISED 7/2/2010
USERNAME => s119140
DGN FILE => 728450su001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1851
PROJECT NUMBER & PHASE 07000211801

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	13	38

LICENSED LANDSCAPE ARCHITECT

1-13-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
DUC T. TRINH
No. 5457
Signature
11-30-15
Renewal Date
09-16-13
Date
STATE OF CALIFORNIA

NOTES:

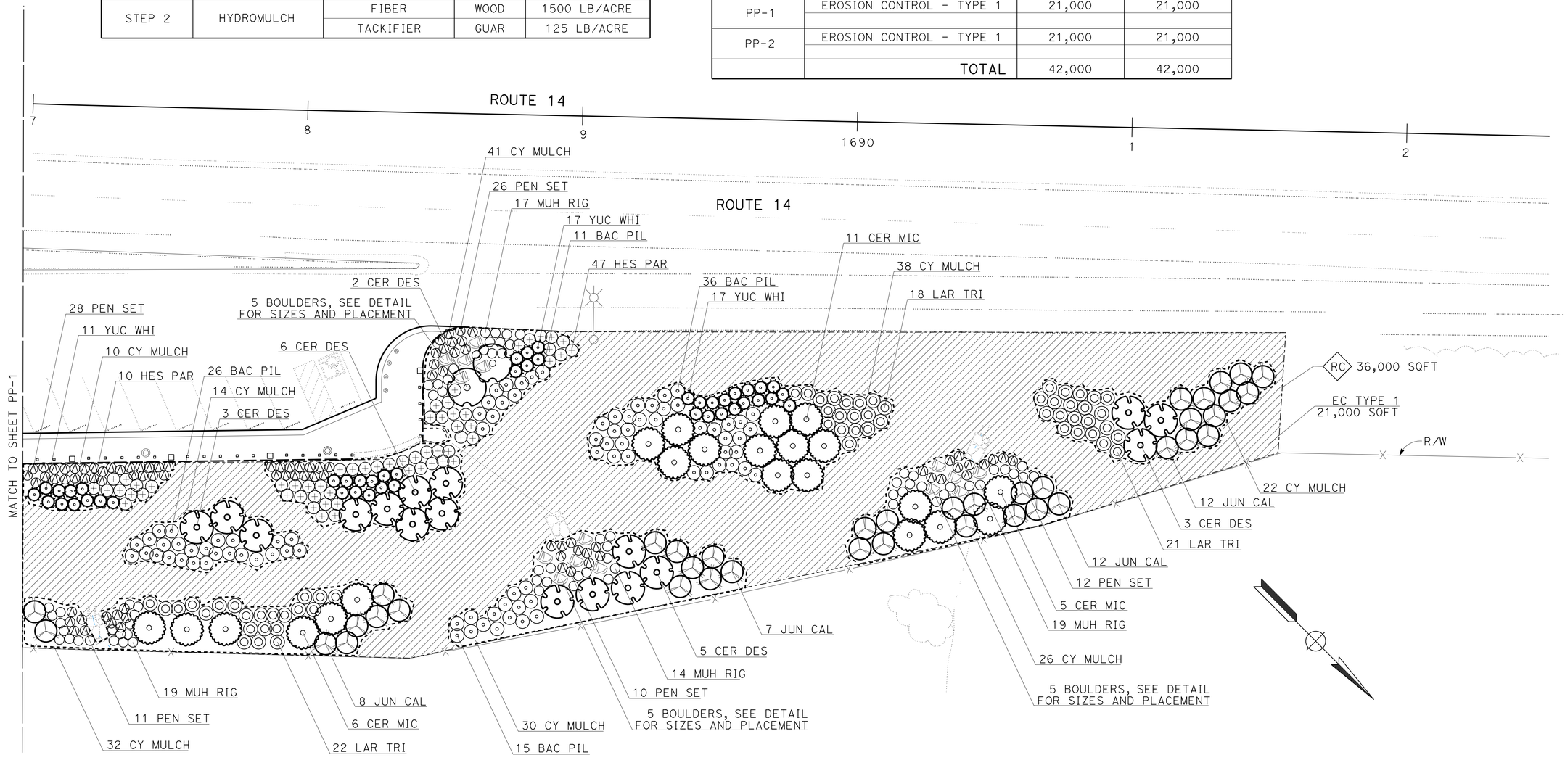
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED.

EROSION CONTROL - TYPE 1

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
STEP 1	HYDROSEED	SEED	MIX 1	35 LB/ACRE
		COMPOST	MEDIUM	130 CY/ACRE
STEP 2	HYDROMULCH	FIBER	WOOD	1500 LB/ACRE
		TACKIFIER	GUAR	125 LB/ACRE

EROSION CONTROL QUANTITIES

SHEET	DESCRIPTION	HYDROSEED	HYDROMULCH
		SQFT	SQFT
PP-1	EROSION CONTROL - TYPE 1	21,000	21,000
PP-2	EROSION CONTROL - TYPE 1	21,000	21,000
	TOTAL	42,000	42,000



PLANTING PLAN

SCALE: 1" = 20'

PP-2

APPROVED FOR PLANTING WORK ONLY

CALCULATED-DESIGNED BY
CHECKED BY
DUC T TRINH
PATTY WATANABE
REVISED BY
DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT
PATTY WATANABE

LAST REVISION: DATE PLOTTED => 11-FEB-2014
00-00-00 TIME PLOTTED => 12:39

BORDER LAST REVISED 7/2/2010

USERNAME => s119140
DGN FILE => 728450su002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1851

PROJECT NUMBER & PHASE 07000211801

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	14	38

REGISTERED ELECTRICAL ENGINEER — 10/17/13 DATE

C. BURCIAGA No. E015302 Exp. 3/31/15 ELECT — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

1-13-14
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:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. ALL NEW PULL BOXES MUST BE TAMPER RESISTANT.

LEGEND:

[1] INSTALL 120/240 V TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC:
100 A, 240 V, 2P, CB-MAIN
30 A, 240 V, 2P, CB-LTG
15 A, 120 V, CB-PEC
Ctid No. 07-53-014-0-056.850M
ADDRESS: Rte 14 AT LAMONT ODETT VISTA POINT

[2] INSTALL 2"C, 2#6, 1#8 (G).

[3] REMOVE HPS LUMINAIRE AND INSTALL LED LUMINAIRE.

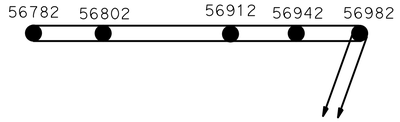
[4] REMOVE PULL BOX AND INSTALL NEW PULL BOX.

WIRING DIAGRAM LEGEND:

○ [RC] LAMP AND BALLAST.
● INSTALL 235 W LED LAMP.
[RC] CONDUCTOR.
INSTALL 2#6 AWG.

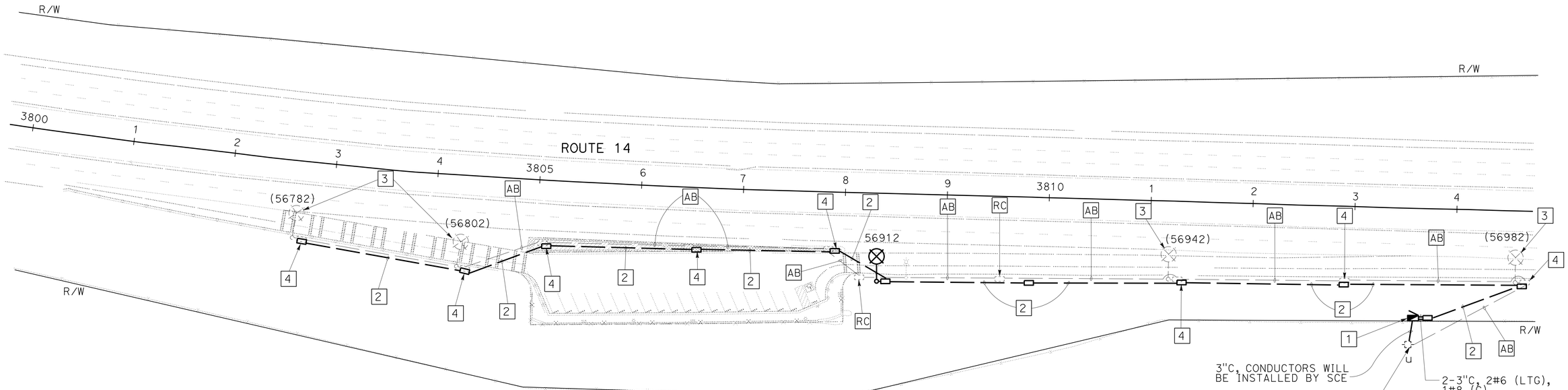
EXISTING WIRING DIAGRAM TO BE REMOVED

NO SCALE



NEW WIRING DIAGRAM

NO SCALE



MODIFY LIGHTING
(LAMONT ODETT VISTA POINT)

SCALE 1" = 50'

E-1

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: YI TSAU
CALCULATED-DESIGNED BY
CHECKED BY: CECILIO BURCIAGA
REVISED BY
DATE REVISED: QUINCIE TRAN

LAST REVISION 10-17-13
DATE PLOTTED => 11-FEB-2014
TIME PLOTTED => 12:39

BORDER LAST REVISED 7/2/2010
USERNAME => s119140
DGN FILE => 728450ua001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1880
PROJECT NUMBER & PHASE 07000211801

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	15	38

10/17/13
REGISTERED ELECTRICAL ENGINEER DATE

1-13-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
C. BURCIAGA
No. E015302
Exp. 3/31/15
ELECT
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: (THIS SHEET ONLY)

1. ITEMS SHOWN IN TABLE ARE NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

MODIFY LIGHTING

LUM	TYPE 30 & Lum	TYPE III-BF	PB	3"C	2"C	#6	#8G
EA	EA	EA	EA	LF	LF	LF	LF
4	1	1	11	30	1360	2720	1360

ELECTRICAL QUANTITIES

E-2

REVISED BY | DATE REVISED
QUINCIE TRAN | CECILIO BURCIAGA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: YI TSAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

LAST REVISION 10-17-13 | DATE PLOTTED => 11-FEB-2014 | TIME PLOTTED => 12:39

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 728450ua002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1880 | PROJECT NUMBER & PHASE 07000211801

M

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
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

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

O

Oblr	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

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 Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
ℙ,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

Q

Qty	QUANTITY

R

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

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
℄	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

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

T continued

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

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

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	16	38

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 1-13-14

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
ø	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

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	17	38

REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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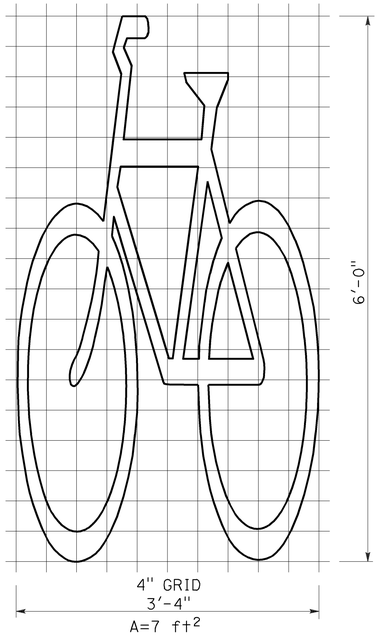
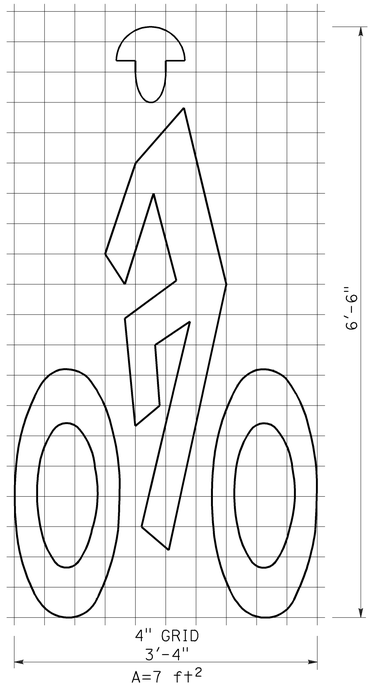
NOTE: TO ACCOMPANY PLANS DATED 1-13-14

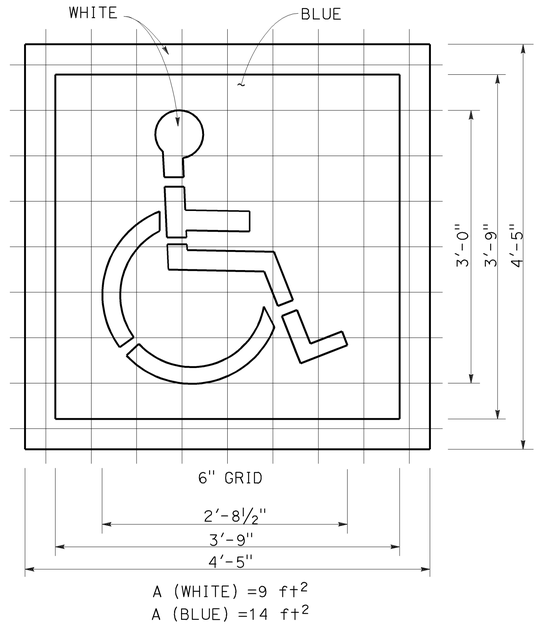
Minor variations in dimensions may be accepted by the Engineer.



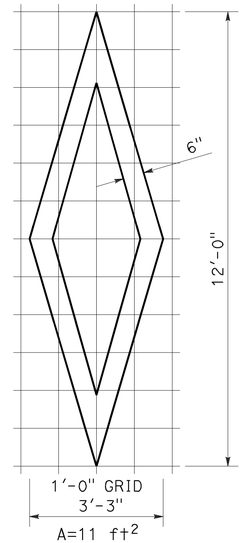
BIKE LANE SYMBOL WITHOUT PERSON



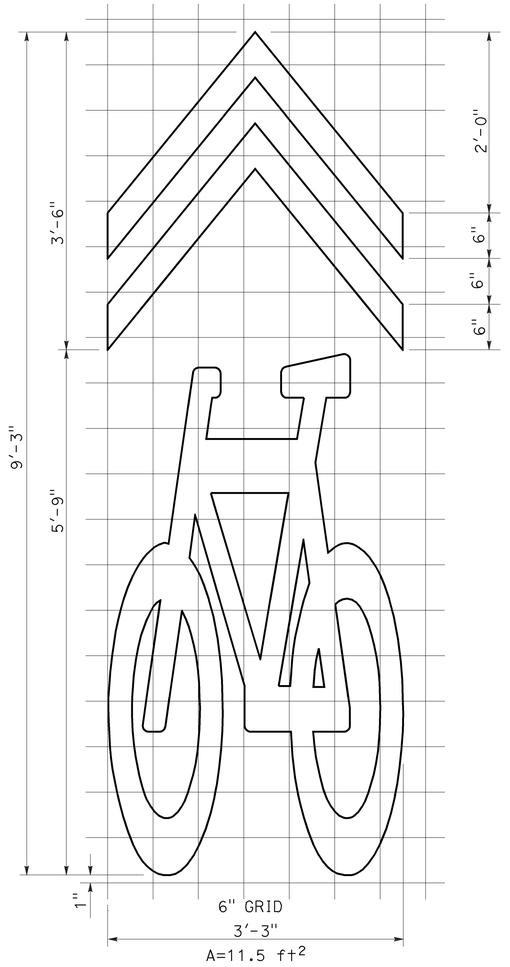
BIKE LANE SYMBOL WITH PERSON



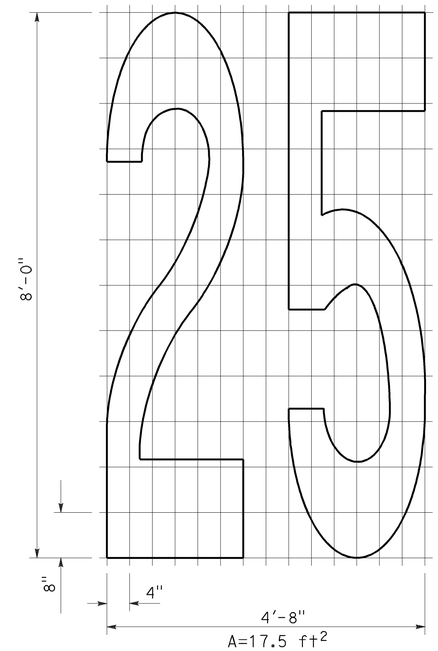
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING

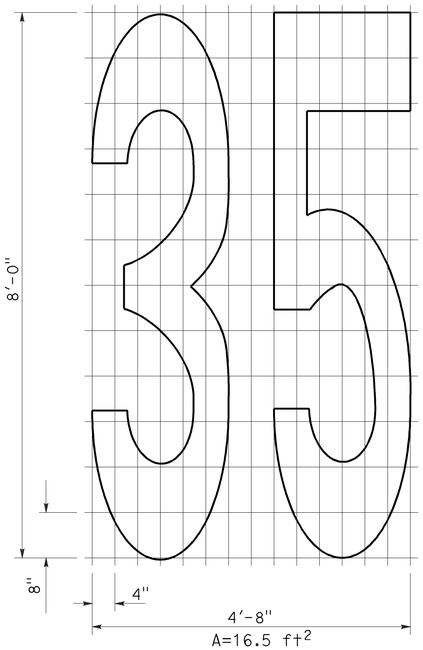


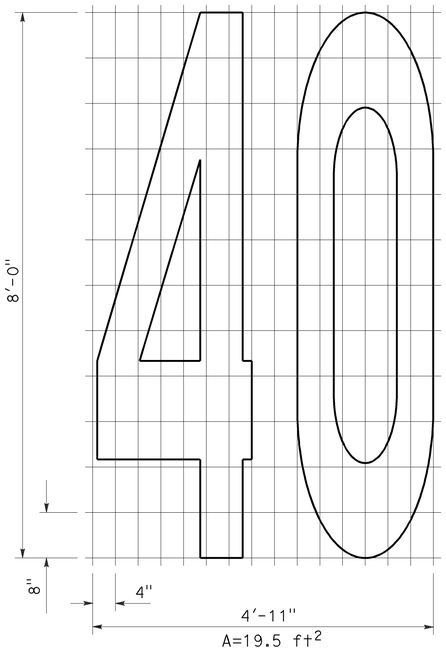
DIAMOND SYMBOL



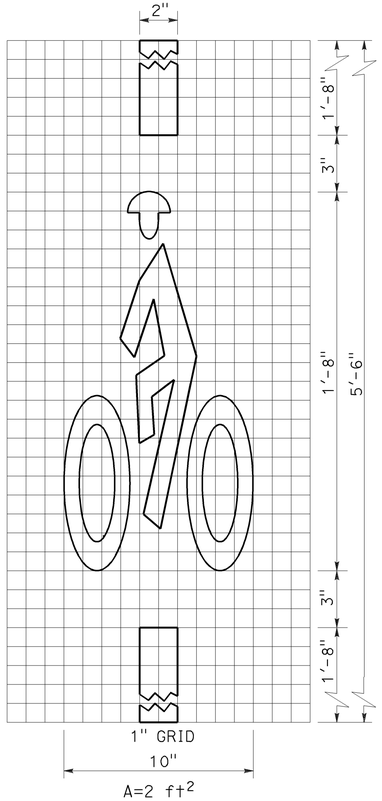
SHARED ROADWAY BICYCLE MARKING







NUMERALS



BICYCLE LOOP DETECTOR SYMBOL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

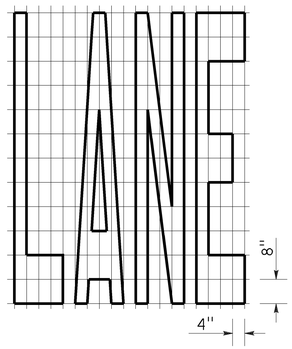
NO SCALE

RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

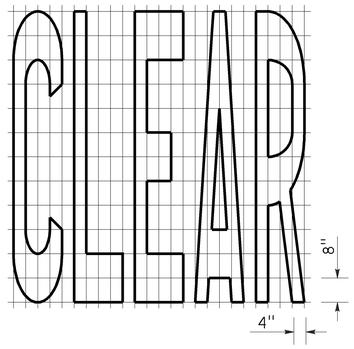
REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

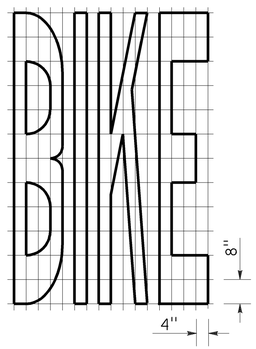
6-28-12



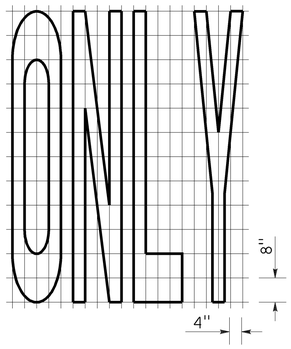
A=24 ft²



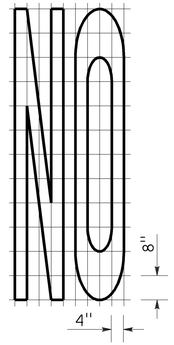
A=27 ft²



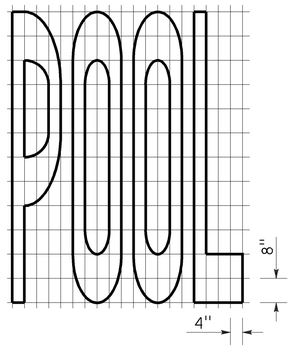
A=21 ft²



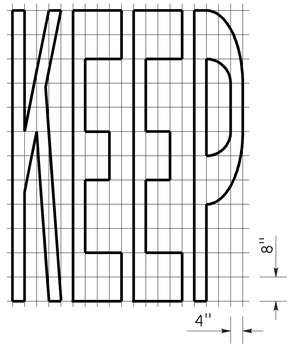
A=22 ft²



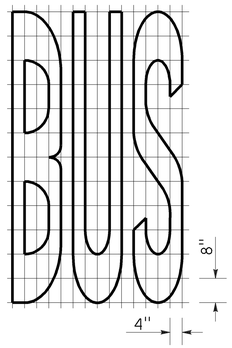
A=14 ft²



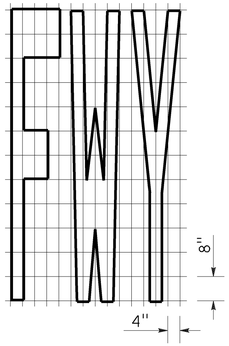
A=23 ft²



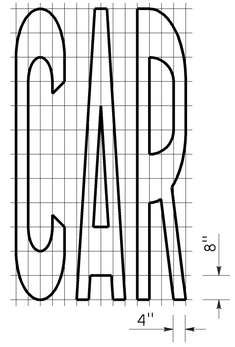
A=24 ft²



A=20 ft²

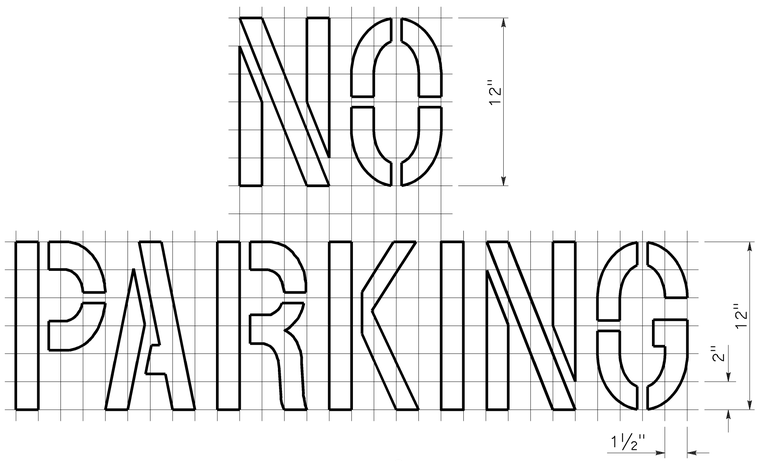


A=16 ft²



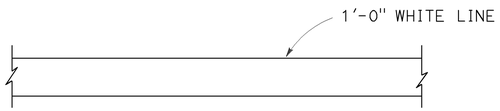
A=17 ft²

WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16

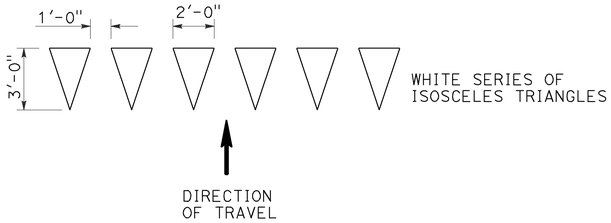


A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	18	38

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 1-13-14

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES

NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	19	38

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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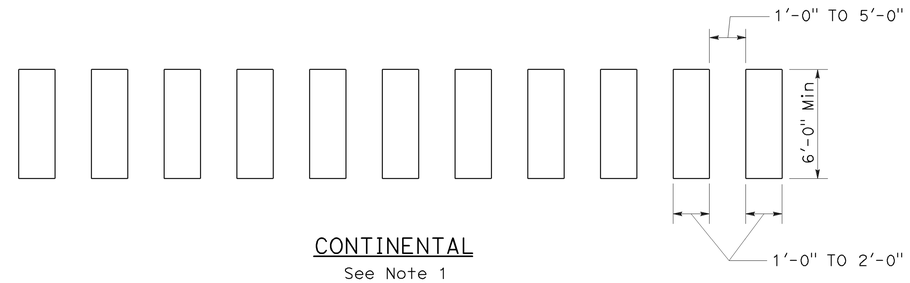
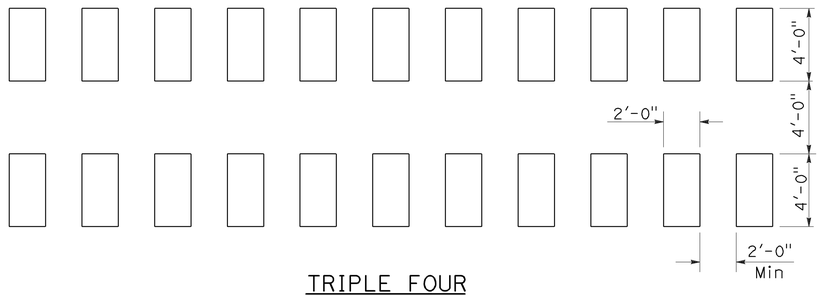
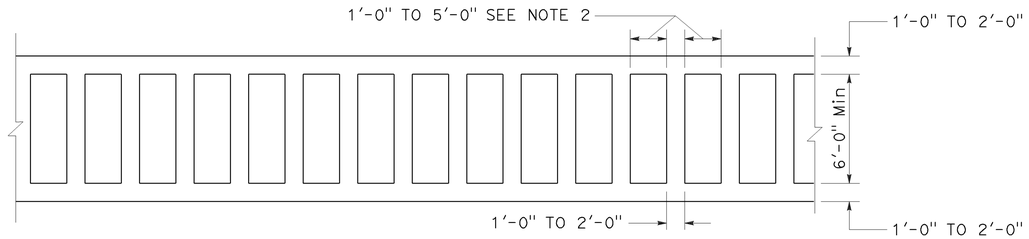
TO ACCOMPANY PLANS DATED 1-13-14



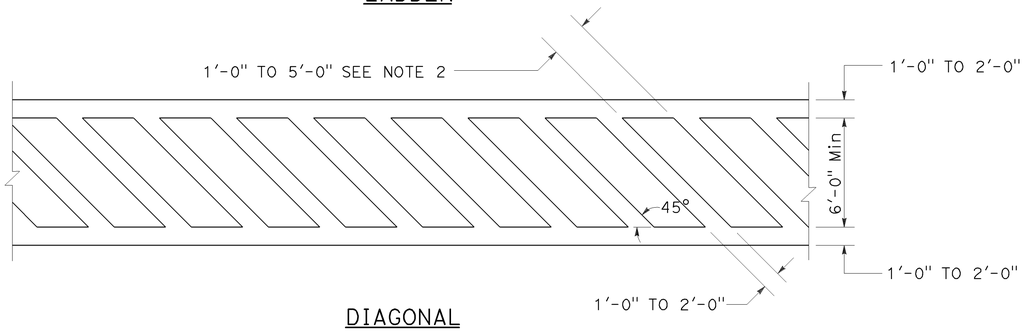
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1



LADDER

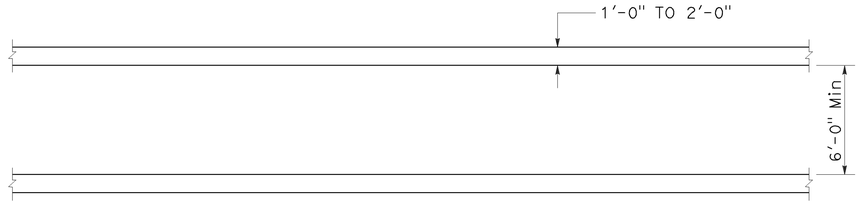


DIAGONAL

HIGHER VISIBILITY CROSSWALKS

NOTES:

1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS CROSSWALKS

NO SCALE

RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24F

2010 REVISED STANDARD PLAN RSP A24F

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	20	38

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Michael Janzen — No. 44788 — Exp. 03-31-14 — CIVIL — STATE OF CALIFORNIA

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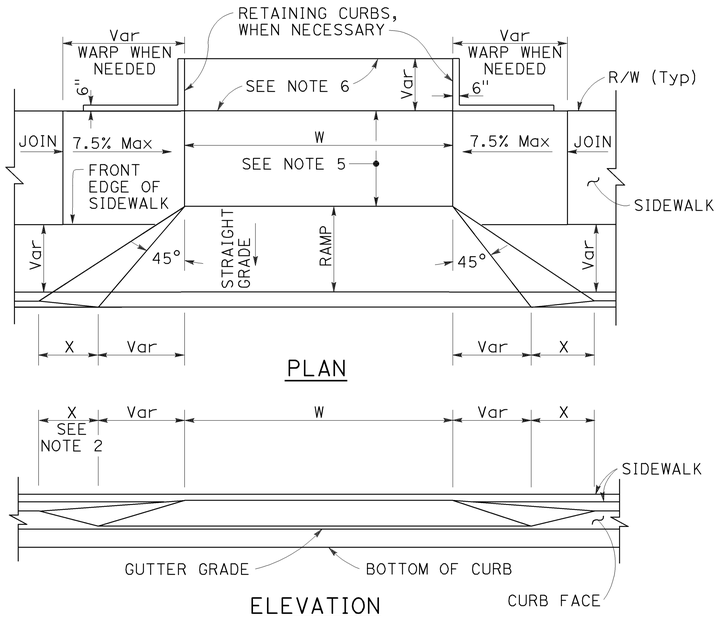
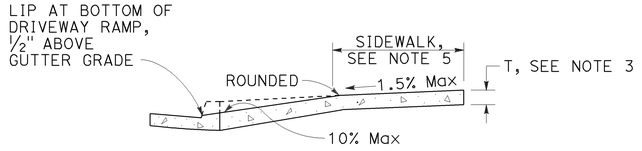
TO ACCOMPANY PLANS DATED 1-13-14



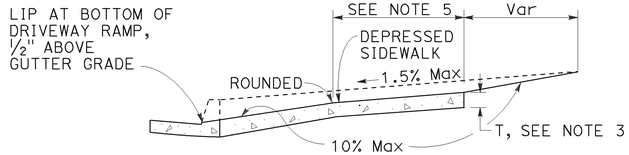
PLAN

ELEVATION



CASE A

Typical driveway, sidewalk not depressed



CASE B

Driveway with depressed sidewalk

SECTIONS

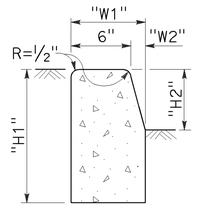
TABLE A

CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7½"	1½"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7½"	1½"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7¼"	1¼"
A3-8	8"	7"	7¾"	1¾"
B1-4	1'-0"	4"	7½"	2½"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7½"	2½"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8½"	3½"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-9"

CURB QUANTITIES

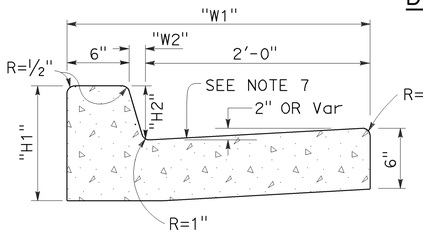
TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04083
D-6	0.06804
E	0.06661

DRIVEWAYS



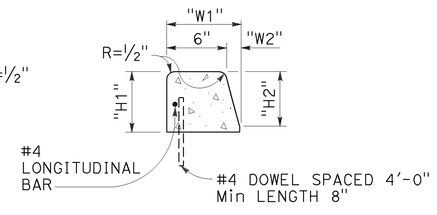
TYPE A1 CURBS

See Table A



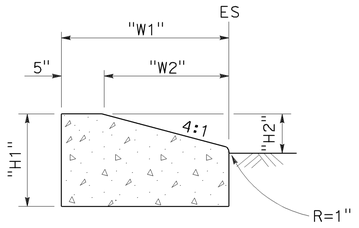
TYPE A2 CURBS

See Table A



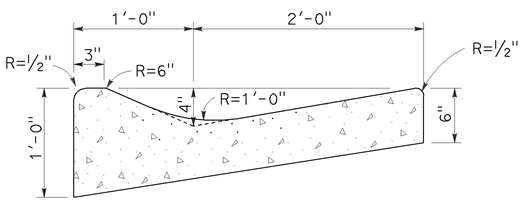
TYPE A3 CURBS

Superimposed on existing pavement
See Table A

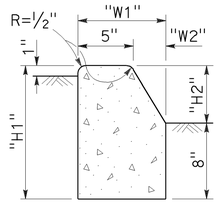


TYPE D CURBS

See Table A

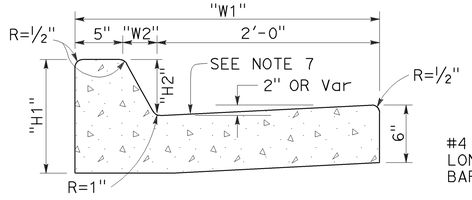


TYPE E CURB



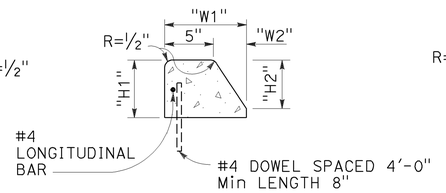
TYPE B1 CURBS

See Table A



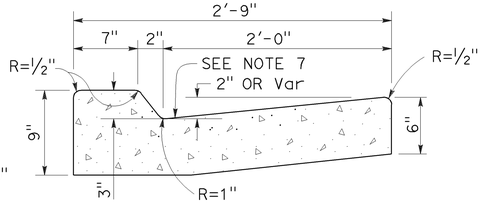
TYPE B2 CURBS

See Table A

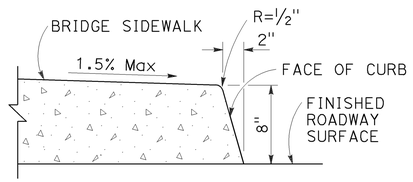


TYPE B3 CURBS

Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB

On Bridges

CURBS

NOTES:

1. Case A driveway section typically applies.
2. X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
3. Sidewalk and ramp thickness "T" at driveway shall be 4" for residental and 6" for commercial.
4. Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
5. Minimum width of clear passageway for sidewalk shall be 4'-2".
6. Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
7. Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

RSP A87A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87A
DATED MAY 20, 2011 - PAGE 119 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87A

2010 REVISED STANDARD PLAN RSP A87A

7-8-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	21	38

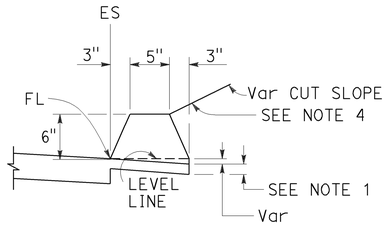
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

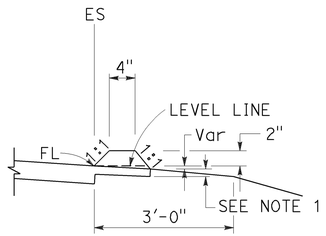
REGISTERED PROFESSIONAL ENGINEER
Michael Janzen
No. 44788
Exp. 03-31-14
CIVIL
STATE OF CALIFORNIA

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.

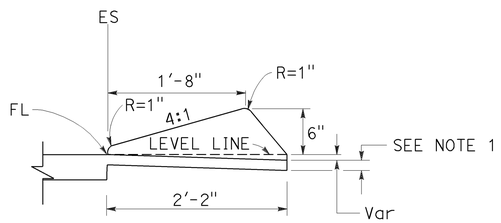
TO ACCOMPANY PLANS DATED 1-13-14



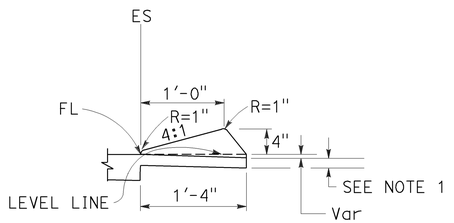
TYPE A
See Note 3



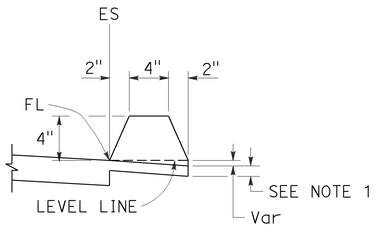
TYPE C



TYPE D

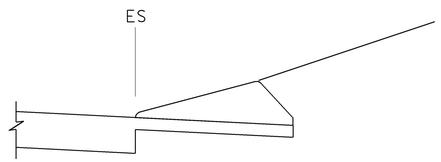


TYPE E

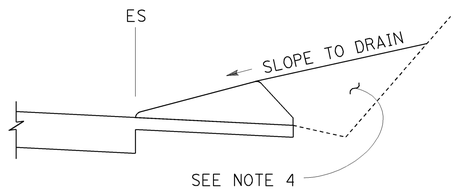


TYPE F
See Note 5

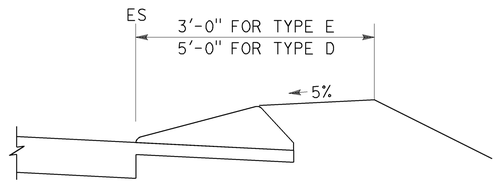
DIKES



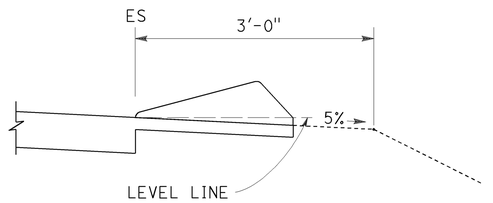
CASE C-1
Cut Slope



CASE C-2
Cut Slope



CASE F



CASE R
See Note 2

TYPE D AND E BACKFILL DETAILS

NOTES:

1. For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
2. Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
3. Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
4. Fill and compact with excavated material to top of dike.
5. Use Type F dike, where dike is required with guard railing installations. See Revised Standard Plan RSP A77N4 for dike positioning details.

DIKE QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A	0.0135
C	0.0038
D	0.0293
E	0.0130
F	0.0066

Quantities based on 5% cross slope.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT DIKES

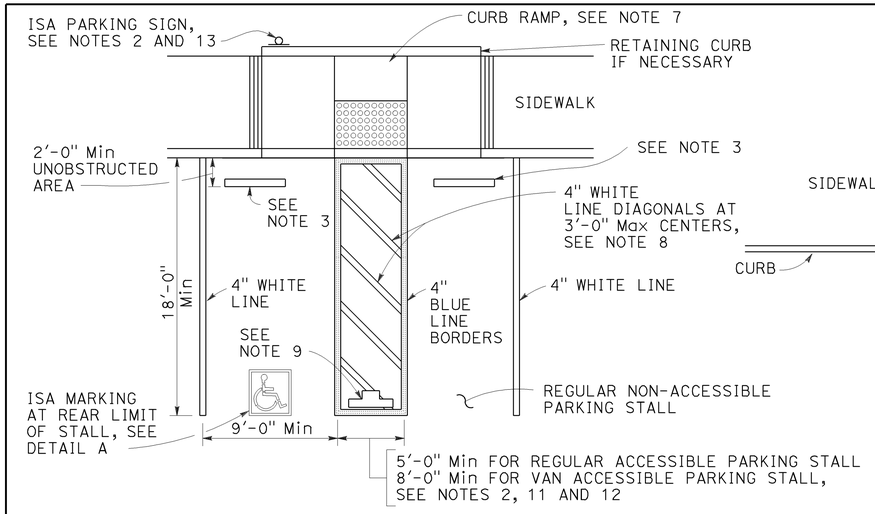
NO SCALE

RSP A87B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87B
DATED MAY 20, 2011 - PAGE 120 OF THE STANDARD PLANS BOOK DATED 2010.

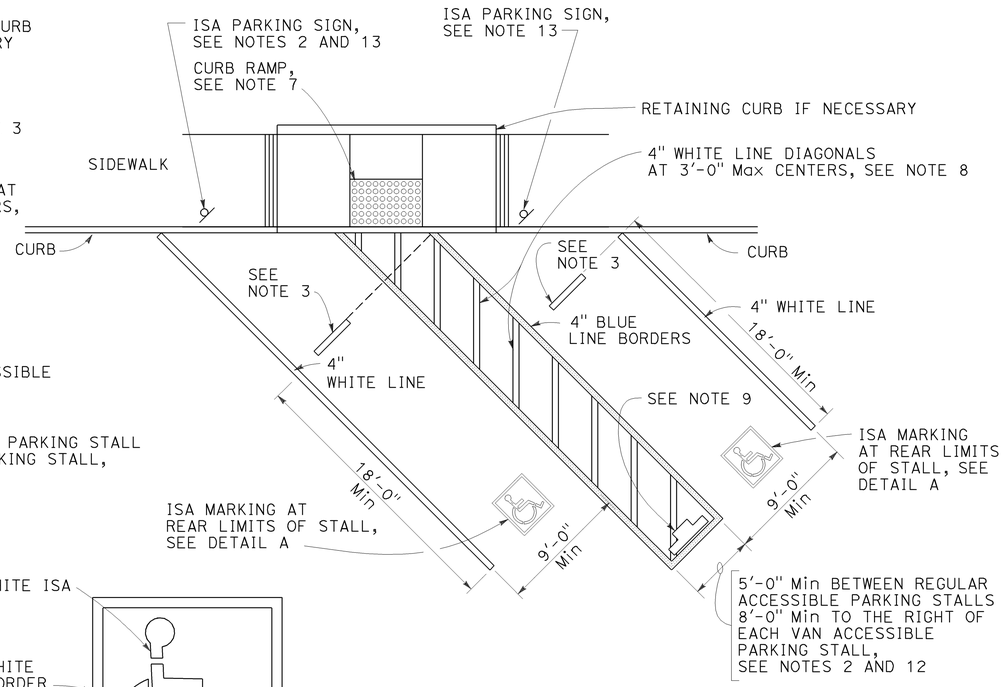
REVISED STANDARD PLAN RSP A87B

2010 REVISED STANDARD PLAN RSP A87B

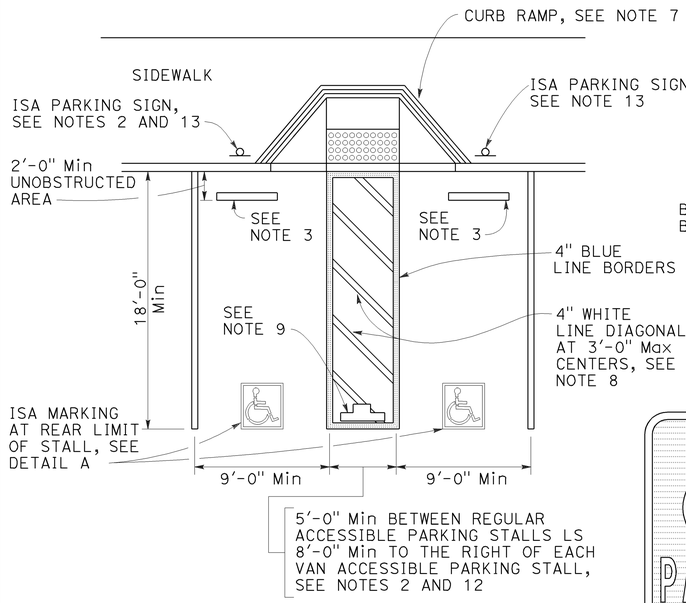
6-27-13



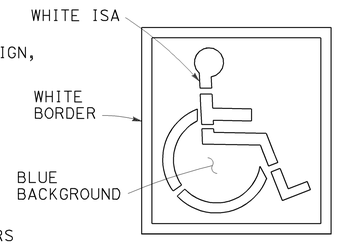
SINGLE PARKING STALL



DIAGONAL DOUBLE PARKING STALLS



DOUBLE PARKING STALL



ISA MARKING
See Revised Std Plan RSP A24C

DETAIL A

TABLE A

TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY	MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1000	2 PERCENT OF TOTAL
1001 AND OVER	20 PLUS 1 FOR EACH 100 OR FRACTION THEREOF OVER 1000

SIGN R99 (CA)

SIGN R99C (CA)
See Note 6

PLAQUE R99B (CA)

SIGN R99 (CA) with PLAQUE R99B (CA)
See Note 6

SIGN R100B (CA)
See Note 10

SIGN R7-8b
See Notes 2 and 6

OFF-STREET PARKING SIGNS
(Parking lot or garage)
See Note 6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	22	38

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Hector David Cordova
No. C41957
Exp. 3-31-14
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.

TO ACCOMPANY PLANS DATED 1-13-14

NOTES:

1. Accessible parking spaces serving a particular building shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance. In parking facilities that do not serve a particular building, accessible parking shall be located on the shortest accessible route of travel to an accessible pedestrian entrance of the parking facility.
2. One in every six accessible off-street parking stalls, but not less than one, shall be served by an accessible aisle of 8'-0" minimum width and shall be signed van accessible. The R7-8b sign shall be mounted below the R99B (CA) plaque or the R99C (CA) sign.
3. In each parking stall, a curb or parking bumper shall be provided if required to prevent encroachment of vehicles over the required width of walkways. Parking stalls shall be so located that persons with disabilities are not compelled to wheel or walk behind parked vehicles other than their own. For more parking bumper requirements, see the Special Provisions.
4. Parking spaces and access aisles shall be level with surface slopes not exceeding 1.5% in all directions.
5. Table A shall be used to determine the required number of accessible parking stalls in each parking lot or garage.
6. Where Plaque R99B (CA), Sign R99C (CA) or Sign R7-8b are installed, the bottom of the sign or plaque panel shall be a minimum of 7'-0" above the surrounding surface.
7. Curb ramps shall conform to the details shown on Revised Standard Plan RSP A88A.
8. Blue paint, instead of white may be used for marking accessibility aisles in areas where snow may cause white markings to not be visible.
9. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high and located so that it is visible to traffic enforcement officials. See Revised Standard Plan RSP A90B for details of the "NO PARKING" pavement marking.
10. A R100B (CA) sign shall be posted in a conspicuous place at each entrance to off-street parking facilities or immediately adjacent to and visible from each stall. The sign shall include the address where the towed vehicle may be reclaimed and the telephone number of the local traffic law enforcement agency.
11. Where a single (non-van) accessible parking space is provided, the loading and unloading access aisle shall be on the passenger side of the vehicle as the vehicle is going forward into the parking space.
12. Where a van accessible parking space is provided, the loading and unloading access aisle shall be 8'-0" wide minimum, and shall be on the passenger side of the vehicle as the vehicle is going forward into the parking space.
13. Accessible Parking Only Sign shall be Sign R99C (CA) or Sign R99 (CA) with Plaque R99B (CA).

LEGEND

ISA = International Symbol of Accessibility

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACCESSIBLE PARKING OFF-STREET

NO SCALE

RSP A90A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A90A
DATED MAY 20, 2011 - PAGE 123 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A90A

2010 REVISED STANDARD PLAN RSP A90A

7-8-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	23	38

Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Gregory A. Balzer 2515
10-31-14
2-28-15
Renewal Date
7-19-13
Date
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.

TO ACCOMPANY PLANS DATED 1-13-14

A

AB	AGGREGATE BASE
ABS	ACRYLONITRILE-BUTADIENE-STYRENE
AC	ASPHALT CONCRETE
ACC	ARMOR-CLAD CONDUCTORS
Adj	ADJACENT/ADJUSTABLE
AIC	AUXILIARY IRRIGATION CONTROLLER
Alt	ALTERNATIVE
AMEND	AMENDMENT
ARV	AIR RELEASE VALVE
AUTO	AUTOMATIC
AUX	AUXILIARY
AVB	ATMOSPHERIC VACUUM BREAKER

B

B&B	BALLED AND BURLAPPED
B/B	BRASS/BRONZE
B/B/PL	BRASS/BRONZE/PLASTIC
B/PL	BRASS/PLASTIC
BFM	BONDED FIBER MATRIX
Bit Ctd	BITUMINOUS COATED
BP	BOOSTER PUMP
BPA	BACKFLOW PREVENTER ASSEMBLY
BPE	BACKFLOW PREVENTER ENCLOSURE
BV	BALL VALVE

C

C	CONDUIT
CAP	CORRUGATED ALUMINUM PIPE
CARV	COMBINATION AIR RELEASE VALVE
CB	COUPLING BAND
CCA	CAM COUPLER ASSEMBLY
CEC	CONTROLLER ENCLOSURE CABINET
CHDPE	CORRUGATED HIGH DENSITY POLYETHYLENE
CL	CHAIN LINK
CNC	CONTROL AND NEUTRAL CONDUCTORS
Conc	CONCRETE
CP	COPPER PIPE
CS	COMPOST SOCK
CSP	CORRUGATED STEEL PIPE
CST	CENTER STRIP
CV	CHECK VALVE

D

Dia	DIAMETER
DIP	DUCTILE IRON PIPE
DIT	DRIP IRRIGATION TUBING
DG	DECOMPOSED GRANITE
DN	DIAMETER NOMINAL
DVA	DRIP VALVE ASSEMBLY

E

EC	EROSION CONTROL
ECTC	EROSION CONTROL TECHNOLOGY COUNCIL
Elect	ELECTRIC/ELECTRICAL
Elev	ELEVATION
ELL	ELBOW
ENCL	ENCLOSURE
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
EST	END STRIP
ESTB	ESTABLISHMENT
ETW	EDGE OF TRAVELED WAY

F

F	FULL CIRCLE
F/P	FULL/PART CIRCLE
FCV	FLOW CONTROL VALVE
FERT	FERTILIZER
FG	FINISHED GRADE
FH	FLEXIBLE HOSE
FIPT	FEMALE IRON PIPE THREAD
FIS	FERTILIZER INJECTOR SYSTEM
FL	FLOW LINE
FR	FIBER ROLL
FS	FLOW SENSOR
FSC	FLOW SENSOR CABLE
FV	FLUSH VALVE

G

Galv	GALVANIZED
GARV	GARDEN VALVE
GARVA	GARDEN VALVE ASSEMBLY
GM	GRAVEL MULCH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE

H

H	HALF CIRCLE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSEPOWER/HINGE POINT
HPL	HIGH PRESSURE LINE
Hwy	HIGHWAY

I

IC	IRRIGATION CONTROLLER
ICC	IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET
ID	INSIDE DIAMETER
IFS	IRRIGATION FILTRATION SYSTEM
IPS	IRON PIPE SIZE
IPT	IRON PIPE THREAD
Irr	IRRIGATION

L

L	LENGTH

M

Max	MAXIMUM
MBGR	METAL BEAM GUARD RAILING
MCV	MANUAL CONTROL VALVE
MIC	MASTER IRRIGATION CONTROLLER
Min	MINIMUM
MIPT	MALE IRON PIPE THREAD
Misc	MISCELLANEOUS
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

NCN	NO COMMON NAME
NL	NOZZLE LINE
No.	NUMBER
NPT	NATIONAL PIPE THREAD

O

O/C	ON CENTER
OD	OUTSIDE DIAMETER
OL	OVERLAP

P

P	PART CIRCLE
PB	PULL BOX
PCC	PORTLAND CEMENT CONCRETE
PE	POLYETHYLENE
Pkt	PACKET
PL	PLASTIC
PLS	PURE LIVE SEED
PLT	PLANT/PLANTING
PLT ESTB	PLANT ESTABLISHMENT
PM	POST MILE
PR	PRESSURE RATED
PRLV	PRESSURE RELIEF VALVE
PRV	PRESSURE REGULATING VALVE
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Q	QUARTER CIRCLE
QCV	QUICK COUPLING VALVE

NOTE:
For additional abbreviations, see Standard Plans A10A and A10B.

R

R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RCV	REMOTE CONTROL VALVE
RCVM	REMOTE CONTROL VALVE (MASTER)
RCVMF	REMOTE CONTROL VALVE (MASTER) W/FLOW SENSOR
RCVP	REMOTE CONTROL VALVE W/PRESSURE REGULATOR
RCW	RECYCLED WATER
RECP	ROLLED EROSION CONTROL PRODUCT
REQ	REQUIRED
RICS	REMOTE IRRIGATION CONTROL SYSTEM
R/W	RIGHT OF WAY

S

S	SLIP
SCH	SCHEDULE
SF	STATE-FURNISHED
Shld	SHOULDER
Sq	SQUARE
SST	SIDE STRIP
Sta	STATION
Std	STANDARD
SW	SIDEWALK/SOUND WALL

T

T	THIRD CIRCLE/THREAD
TLS	TRUCK LOADING STANDPIPE
TQ	THREE QUARTER CIRCLE
TRM	TURF REINFORCEMENT MAT
TT	TWO-THIRDS CIRCLE
TWSA	TREE WELL SPRINKLER ASSEMBLY
Typ	TYPICAL

U

UG	UNDERGROUND

W

W	WIDTH
W/	WITH
WM	WATER METER
WS	WYE STRAINER
WSA	WYE STRAINER ASSEMBLY
WSP	WELDED STEEL PIPE
WWM	WELDED WIRE MESH

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE AND EROSION CONTROL ABBREVIATIONS

NO SCALE

RSP H1 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H1
DATED MAY 20, 2011 - PAGE 218 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H1

2010 REVISED STANDARD PLAN RSP H1

6-28-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	24	38

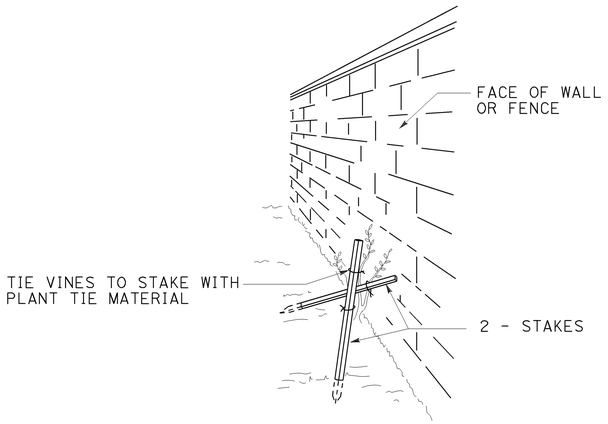
LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

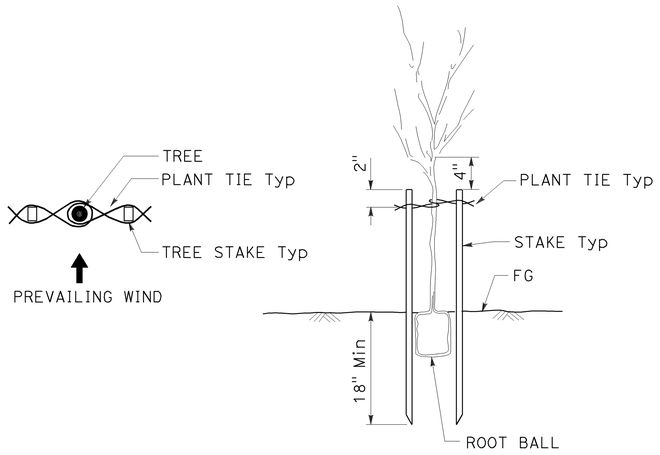
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT
Gregory A. Balzer 2515
09 Renewal Date
2-28-15
Relicensed Date
7-19-13
Date
STATE OF CALIFORNIA

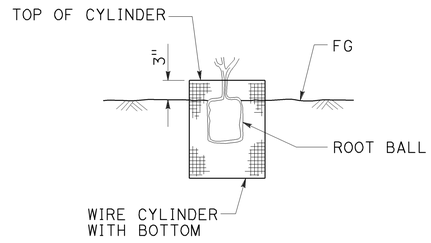
TO ACCOMPANY PLANS DATED 1-13-14



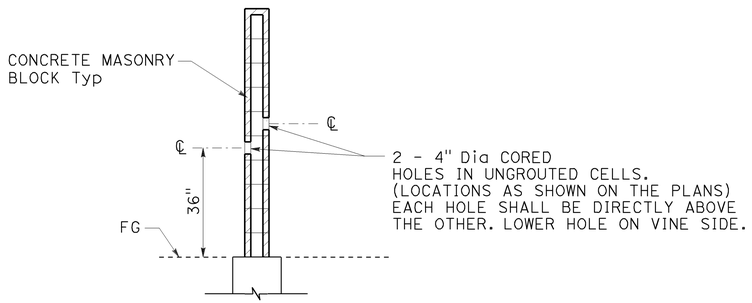
PERSPECTIVE
VINE STAKING



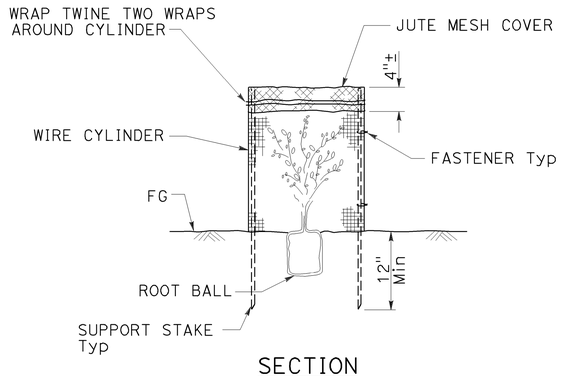
TREE STAKING



SECTION
ROOT PROTECTOR



SECTION
CORE HOLE (VINE)



SECTION
FOLIAGE PROTECTOR

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE DETAILS

NO SCALE

RSP H4 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H4
DATED MAY 20, 2011 - PAGE 221 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H4

2010 REVISED STANDARD PLAN RSP H4

6-28-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	25	38

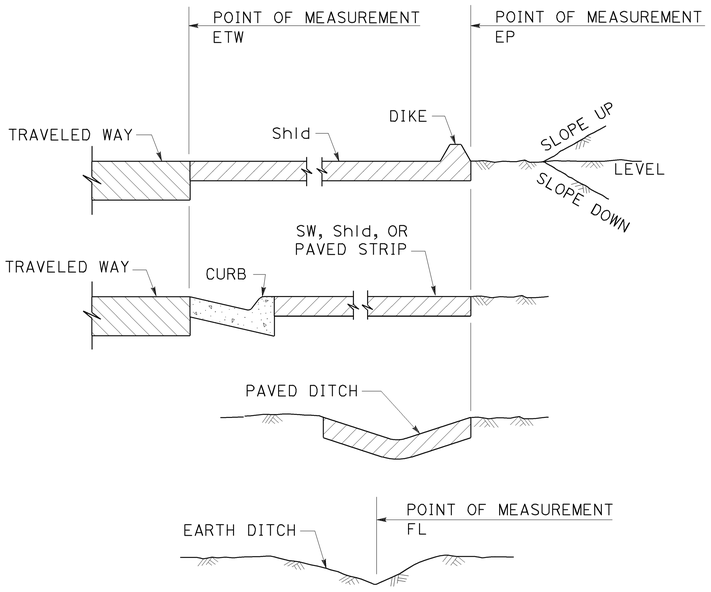
Gregory A Balzer
LICENSED LANDSCAPE ARCHITECT

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.

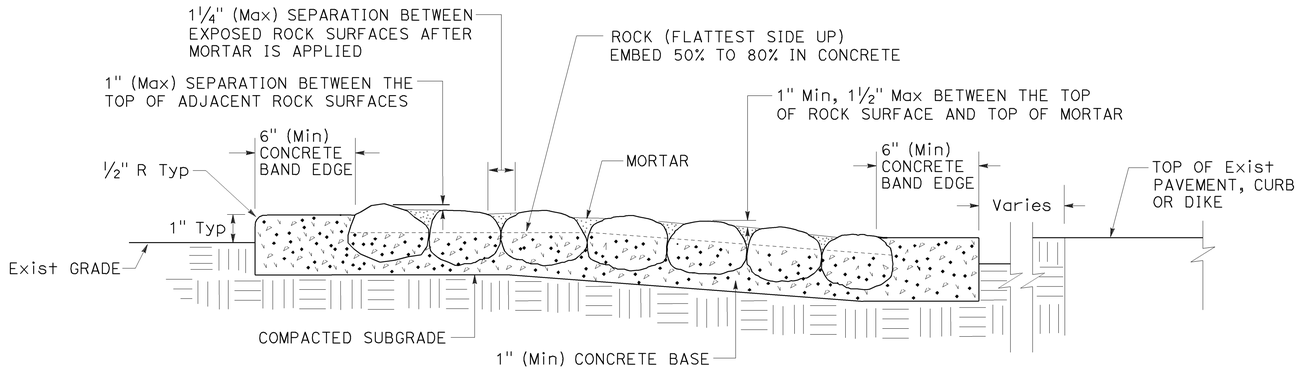
LICENSED LANDSCAPE ARCHITECT — Gregory A. Balzer 2576 — 10-31-14 Renewal Date — 2-28-15 Renewal Date — 7-19-13 Date — STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 1-13-14



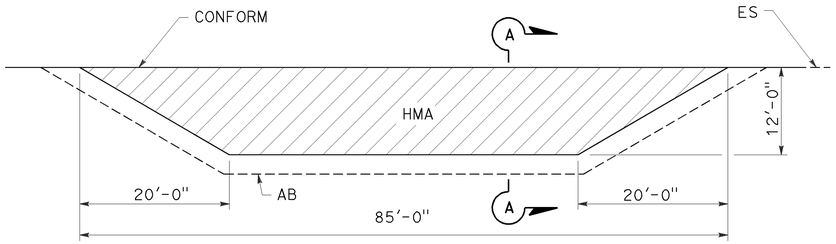
SECTION

POINTS OF MEASUREMENT

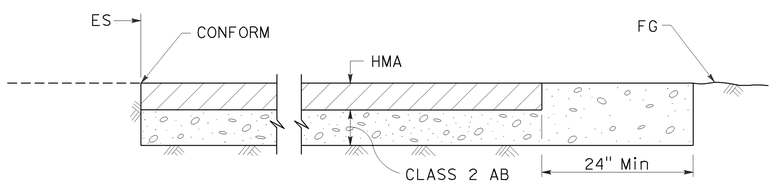


SECTION

ROCK BLANKET



PLAN



SECTION A-A

MAINTENANCE VEHICLE PULLOUT

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE DETAILS

NO SCALE

RSP H9A DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H9A

2010 REVISED STANDARD PLAN RSP H9A

6-21-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	26	38

REGISTERED CIVIL ENGINEER

July 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.

TO ACCOMPANY PLANS DATED 1-13-14

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		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	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%
mph	ft	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 recommmended distances.

2010 REVISED STANDARD PLAN RSP T9

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.

REVISED STANDARD PLAN RSP T9

4-30-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	27	38

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 1-13-14

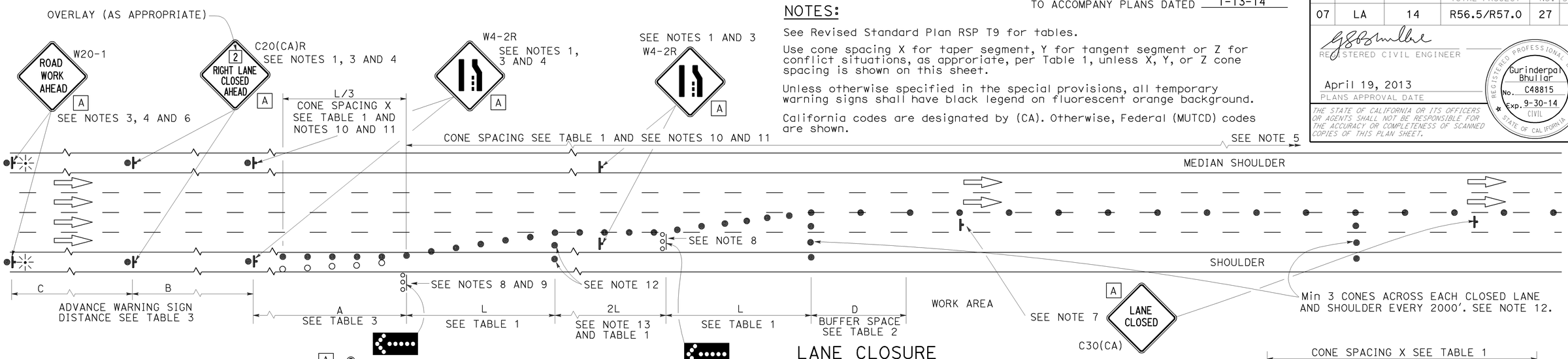
NOTES:

See Revised Standard Plan RSP T9 for tables.

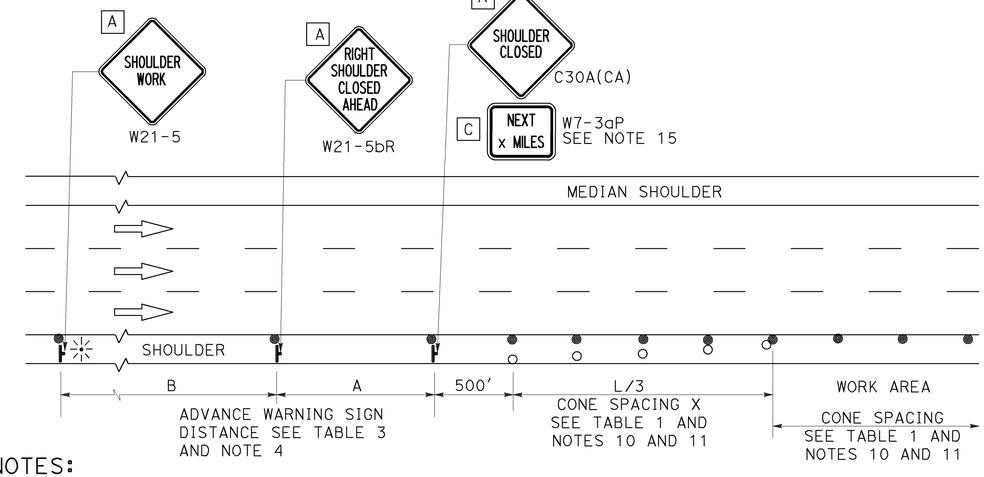
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

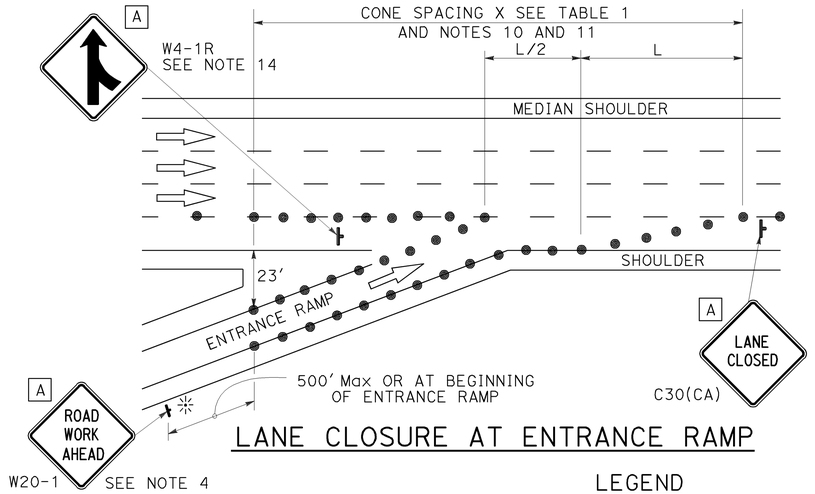
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



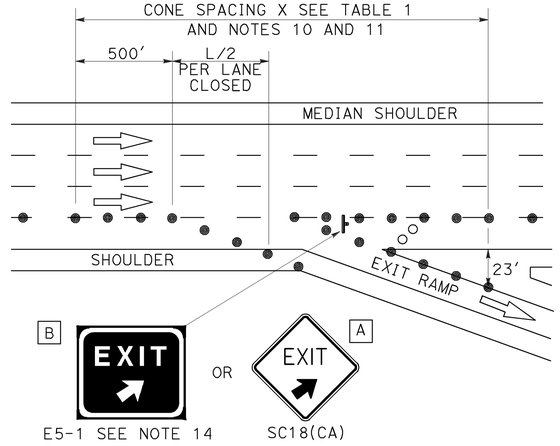
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

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.
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) sign for the first advance warning sign.
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 theshoulder 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"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

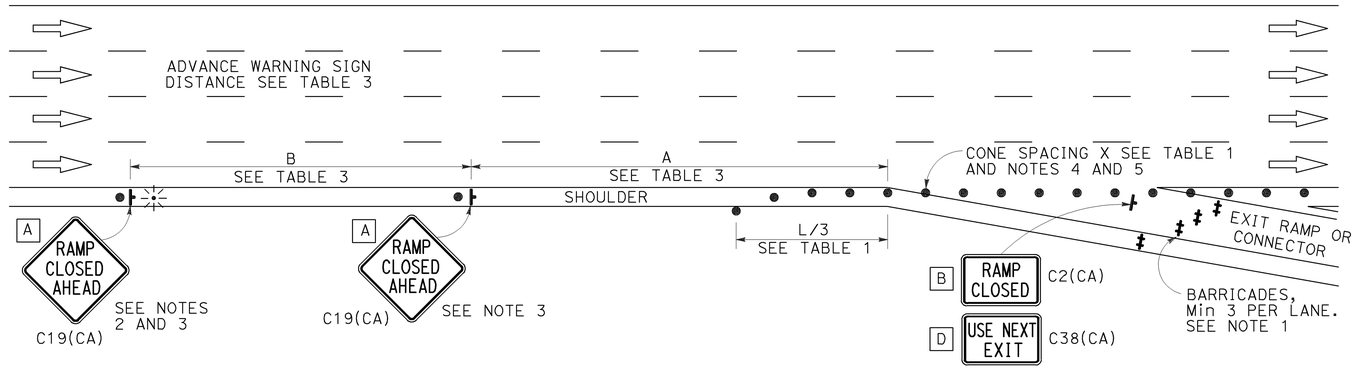
RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

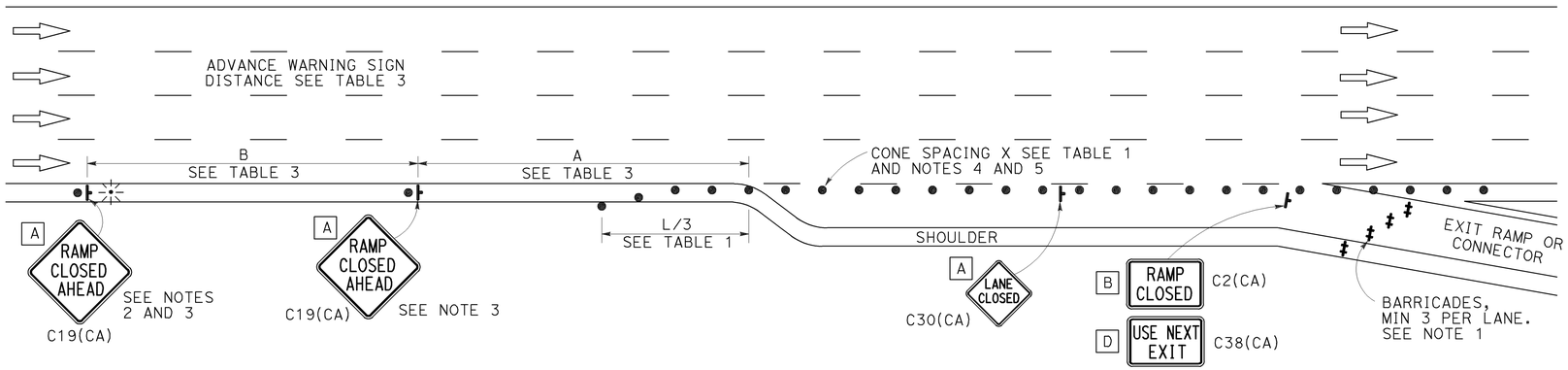
2010 REVISED STANDARD PLAN RSP T10

12-18-13

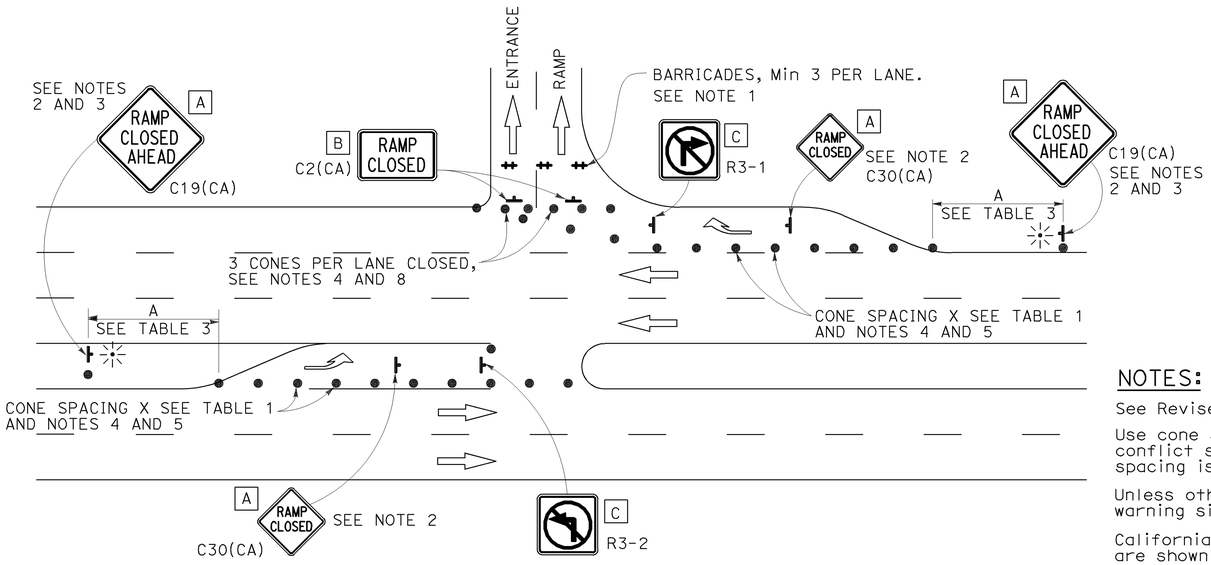
TYPICAL RAMP CLOSURES



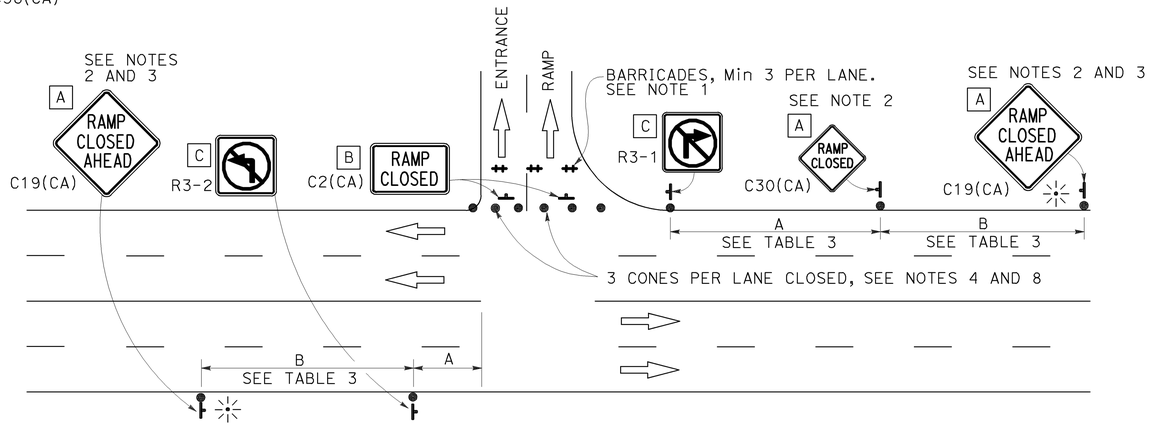
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

SIGN PANEL SIZE (Min)

A	48" × 48"
B	48" × 30"
C	36" × 36"
D	48" × 36"

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- BARRICADES
- PORTABLE FLASHING BEACON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	28	38

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 1-13-14

NOTES:

1. Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
2. In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
3. Each advance C19(CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" × 16" in size and shall be orange or fluorescent red-orange in color. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
4. All cones used for ramp 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 ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.

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 approriate, 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.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

12-18-12

LEGEND:

AB	ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
BC	INSTALL PULL BOX IN EXISTING CONDUIT RUN
BP	PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN
CB	INSTALL CONDUIT INTO EXISTING PULL BOX
CC	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
CF	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE
DH	DETECTOR HANDHOLE
FA	FOUNDATION TO BE ABANDONED
IS	INSTALL SIGN ON SIGNAL MAST ARM
NS	NO SLIP BASE ON STANDARD
PEC	PHOTOELECTRIC CONTROL
PEU	PHOTOELECTRIC UNIT
RC	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
RE	REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS
RL	RELOCATE EQUIPMENT
RR	REMOVE AND REUSE EQUIPMENT
RS	REMOVE AND SALVAGE EQUIPMENT
SC	SPLICE NEW TO EXISTING CONDUCTORS
SD	SERVICE DISCONNECT
TSP	TELEPHONE SERVICE POINT

ABBREVIATIONS

APS	ACCESSIBLE PEDESTRIAN SIGNAL
BBS	BATTERY BACKUP SYSTEM
BC	BOLT CIRCLE
BPB	BICYCLE PUSH BUTTON
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
Ckt	CIRCUIT
CMS	CHANGEABLE MESSAGE SIGN
Ctid	CALTRANS IDENTIFICATION
Comm	COMMUNICATION
DLC	LOOP DETECTOR LEAD-IN CABLE
EMS	EXTINGUISHABLE MESSAGE SIGN
EVUC	EMERGENCY VEHICLE UNIT CABLE
EVUD	EMERGENCY VEHICLE UNIT DETECTOR
FB	FLASHING BEACON
FBCA	FLASHING BEACON CONTROL ASSEMBLY
FBS	FLASHING BEACON WITH SLIP BASE
FO	FIBER OPTIC
G	EQUIPMENT GROUNDING CONDUCTOR
GB	GROUND BUS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HAR	HIGHWAY ADVISORY RADIO
Hex	HEXAGONAL
HPS	HIGH PRESSURE SODIUM
IISNS	INTERNALLY ILLUMINATED STREET NAME SIGN
ISL	INDUCTION SIGN LIGHTING
LED	LIGHT EMITTING DIODE
LMA	LUMINAIRE MAST ARM
LPS	LOW PRESSURE SODIUM
Ltg	LIGHTING
Lum	LUMINAIRE
M	METERED
MAT	MAST ARM MOUNTING TOP ATTACHMENT
MAS	MAST ARM MOUNTING SIDE ATTACHMENT
M/M	MULTIPLE TO MULTIPLE TRANSFORMER
Mtg	MOUNTING
MV	MERCURY VAPOR LIGHTING FIXTURE
MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
N	NEUTRAL (GROUNDED CONDUCTOR)
NB	NEUTRAL BUS
NC	NORMALLY CLOSE
NO	NORMALLY OPEN
P	CIRCUIT BREAKER'S POLE
PB	PULL BOX
PBA	PUSH BUTTON ASSEMBLY
PEC	PHOTOELECTRIC CONTROL
Ped	PEDESTRIAN
PEU	PHOTOELECTRIC UNIT
PT	CONDUIT WITH PULL TAPE
RE	RELOCATED EQUIPMENT
RM	RAMP METERING
RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
SB	SLIP BASE
SIC	SIGNAL INTERCONNECT CABLE
Sig	SIGNAL
SMA	SIGNAL MAST ARM
SNS	STREET NAME SIGN
SP	SERVICE POINT
TDC	TELEPHONE DEMARCATION CABINET
TMS	TRAFFIC MONITORING STATION
TOS	TRAFFIC OPERATIONS SYSTEM
Veh	VEHICLE
VIVDS	VIDEO IMAGE VEHICLE DETECTION SYSTEM
WIM	WEIGH-IN-MOTION
Xfmr	TRANSFORMER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	29	38

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

Theresa Aziz Gabriel No. E15129 Exp. 6-30-14 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

July 19, 2013
PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 1-13-14

SOFFIT AND WALL MOUNTED LUMINAIRES

- PENDANT, 70 W HPS UNLESS OTHERWISE SPECIFIED
- FLUSH, 70 W HPS UNLESS OTHERWISE SPECIFIED
- WALL SURFACE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- EXISTING SOFFIT OR WALL LUMINAIRE TO REMAIN UNMODIFIED
- (M) EXISTING SOFFIT OR WALL LUMINAIRE TO BE MODIFIED AS SPECIFIED

NOTE:
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

SYMBOL USED	DEFINITIONS
Ω	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
$V_{(dc)}$	VOLT (DIRECT CURRENT)
$V_{(ac)}$	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
μ	MICRO
P	PICO
Hz	HERTZ

MISCELLANEOUS ELECTROLIERS

NEW	EXISTING	
		LUMINAIRE ON WOOD POLE
		NON-STANDARD ELECTROLIER (SEE PROJECT NOTES OR PROJECT PLANS)
		CITY ELECTROLIER
		ELECTROLIER FOUNDATION (FUTURE INSTALLATION)

NOTES:

1. HPS luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. HPS luminaires shall be 200 W when installed on other type standards or poles, unless otherwise specified.
2. LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
3. Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

STANDARD ELECTROLIER

NEW	EXISTING	STANDARD TYPE
		15
		15D
		15 STRUCTURE
		15D STRUCTURE
		21
		21D
		21 STRUCTURE
		21D STRUCTURE
		30
		31
		32

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1A

2010 REVISED STANDARD PLAN RSP ES-1A

7-15-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	30	38

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

Theresa Aziz Gabriel No. E15129 Exp. 6-30-14 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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 1-13-14

CONDUIT

NEW	EXISTING	
		LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED
		TRAFFIC SIGNAL CONDUIT
C	c	COMMUNICATION CONDUIT
T	t	TELEPHONE CONDUIT
F	f	FIRE ALARM CONDUIT
FO	fo	FIBER OPTIC CONDUIT
		CONDUIT TERMINATION
R	r	CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

SERVICE EQUIPMENT

NEW	EXISTING	
OH	oh	OVERHEAD LINES
U	U	WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
III	III	SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
T	t	TELEPHONE DEMARCATION CABINET

POLE-MOUNTED SERVICE DESIGNATION

TYPE H SERVICE, 28'-10" — TYPE OF INSTALLATION AND POLE HEIGHT ABOVE GRADE

FLASHING BEACON

NEW	EXISTING	
R	R	FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION
Y Y	Y Y	FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN.
R R	R R	FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED

SIGNAL EQUIPMENT

NEW	EXISTING	
C	C	PEDESTRIAN SIGNAL HEAD "C" INDICATES COUNTDOWN PEDESTRIAN HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
PV	PV	MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)
		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

SIGNAL EQUIPMENT Cont

NEW	EXISTING	
		GUARD POST
		TYPE 1 STANDARD WITH RAMP METERING SIGN
		OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION SYSTEM

NOTES:

1. All signal sections shall be 12" unless shown otherwise.
2. Signal heads shall be provided with backplates unless shown otherwise.

ILLUMINATED OVERHEAD SIGN

NEW	EXISTING	
		SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER
		DOUBLE POST, SINGLE ILLUMINATED SIGN
		SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE
		DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1B

2010 REVISED STANDARD PLAN RSP ES-1B

7-15-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	31	38

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Theresa Aziz Gabriel — No. E15129 — Exp. 6-30-14 — ELECTRICAL — STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 1-13-14

EQUIPMENT IDENTIFICATION

ILLUMINATED SIGN IDENTIFICATION NUMBER:

SIGN No. 12345
10 ISL SCI 1.0

- SIGN NUMBER - PLACE ON POST OR STRUCTURE
- TRANSFORMER RATING (kVA)
- LIGHTING CONTROL TYPE
- NUMBER AND TYPE OF FIXTURES

DO NOT PLACE ON STANDARD OR STRUCTURE

ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:

12345 - 15'-0"

- MAST ARM LENGTH, IF SHOWN. DO NOT PLACE ON STANDARD OR STRUCTURE
- EQUIPMENT NUMBER - PLACE ON STANDARD OR STRUCTURE. EXISTING EQUIPMENT NUMBERS ARE SHOWN IN PARENTHESIS

CONDUIT AND CONDUCTOR IDENTIFICATION:

1½"C, 2#10, 15#14, 2 DLC, 12P#18

- PAIR
- NUMBER AND SIZE OF CONDUCTORS AND CABLES
- SIZE OF CONDUIT IN INCHES

ø1, ø2, ø2P, etc.	TRAFFIC PHASE IDENTIFICATION FOR SIGNAL FACES, DETECTORS AND PHASE DIAGRAMS
1 2 3	LEGEND NUMBERS
A B C	EQUIPMENT, SIGNAL POLES, INSTALLATION OR ITEMS
1 2 3	CONDUIT RUN NUMBERS

SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):

19A - 3 - 100

- WIND VELOCITY = 100 mph
- CASE 3 ARM LOADING
- STANDARD TYPE
- STANDARD PLAN SHEET NUMBER
- DETAIL, NUMBER, SECTION, TYPE OR ELEVATION

MISCELLANEOUS EQUIPMENT

NEW	EXISTING	
CMS	cms	CHANGEABLE MESSAGE SIGN
		CLOSED CIRCUIT TELEVISION CAMERA
		HIGHWAY ADVISORY RADIO POLE AND ANTENNA
EMS	ems	EXTINGUISHABLE MESSAGE SIGN
M V	m v	DETECTION DEVICE M = MICROWAVE SENSOR V = VIDEO IMAGE SENSOR

WIRING DIAGRAM LEGEND

- EXTERNAL CONDUCTOR
- CONDUCTOR OR BUS
- TIE POINT
- CONTACTOR COIL
- CONTACTOR, NO CONTACT
- TERMINAL BLOCKS
- CONTACTOR, NC CONTACT
- ENCLOSURE BOND
- GROUNDING ELECTRODE
- CIRCUIT BREAKER
- RECEPTACLE

PULL BOXES

NEW	EXISTING	
		PULL BOX, No. 5 UNLESS OTHERWISE INDICATED OR NOTED
3	9A(21)	PULL BOX, ADDITIONAL DESIGNATIONS OR DESCRIPTIONS

3 No. 3½ PULL BOX
5 No. 5 PULL BOX
6 No. 6 PULL BOX
7 No. 7 (CEILING PULL BOX)
8 No. 8 (PENDANT SOFFIT PULL BOX)
9 No. 9 PULL BOX
9A No. 9A PULL BOX

(C) COMMUNICATIONS PULL BOX
(E) PULL BOX WITH EXTENSION
(S) SPRINKLER CONTROL PULL BOX
(21) ANCHOR BOLTS AND CONDUIT FOR FUTURE INSTALLATION OF TYPE 21 STANDARD
(T) TRAFFIC PULL BOX

VEHICLE DETECTORS

5 J 9 U

- VEHICLE DETECTOR DESIGNATION
- U = UPPER, L = LOWER
- SLOT NUMBER IN INPUT FILE
- INPUT FILE (I OR J)
- PHASE

NEW	EXISTING	
		TYPE A DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE B DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE C DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE D DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE E DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE Q DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		MAGNETIC DETECTOR
DH	dh	DETECTOR HANDHOLE
		MICROWAVE OR VIDEO DETECTION ZONE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

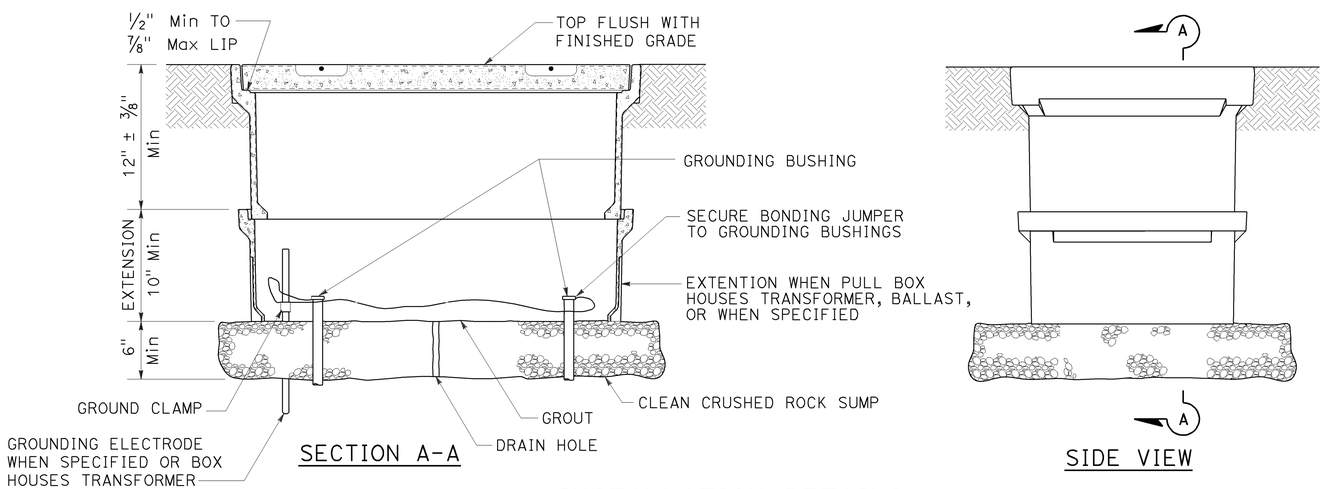
NO SCALE

RSP ES-1C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1C DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1C

2010 REVISED STANDARD PLAN RSP ES-1C

7-11-13

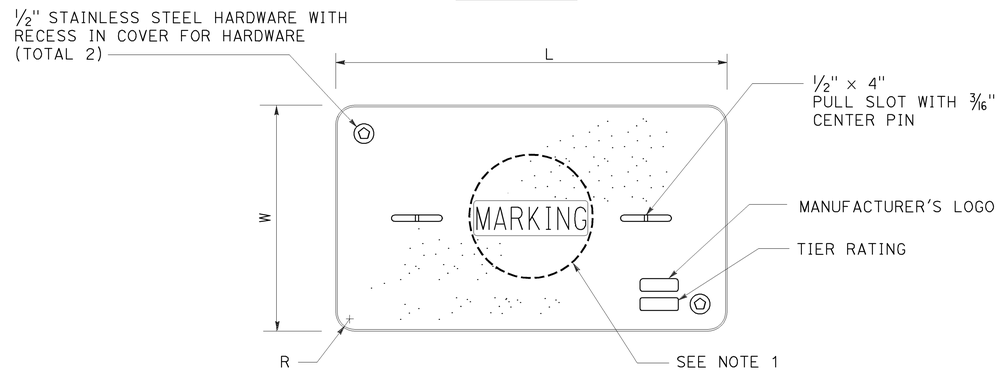


SECTION A-A

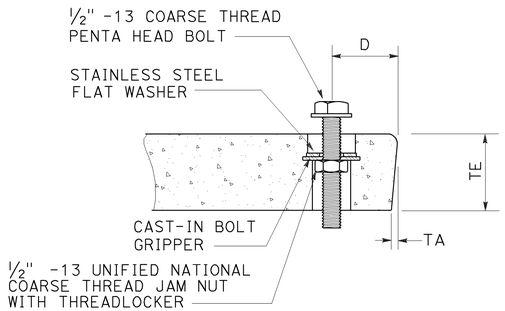
SIDE VIEW

INSTALLATION DETAILS

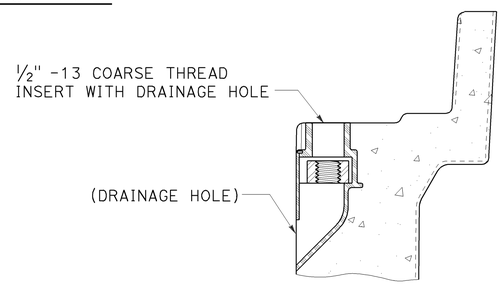
DETAIL A



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
OR SIMILAR



TYPICAL THREADED INSERT
OR SIMILAR

DIMENSION TABLE

PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3½	12"	N/A	40 lb	1′ - 3⅜"	10⅛"	1⅜"	2"	⅛"	1¾"	30 lb
No. 5	12"	10"	55 lb	1′ - 11¼"	1′ - 1¾"	1⅜"	2"	⅛"	1¾"	60 lb
No. 6	12"	10"	70 lb	2′ - 6½"	1′ - 5½"	1⅜"	2"	⅛"	2"	85 lb

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	32	38

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

July 19, 2013
PLANS APPROVAL DATE

TO ACCOMPANY PLANS DATED 1-13-14

NOTES:

1. Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
   A) No. 3½ pull box.
      1) "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
      2) "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
   B) No. 5, 6, 9 or 9A pull box.
      1) "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
      2) "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
      3) "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
      4) "IRRIGATION" - Circuits to irrigation controller 120 V or more.
      5) "RAMP METER" - Ramp meter circuits.
      6) "COUNT STATION" - Count or speed monitor circuits.
      7) "COMMUNICATIONS" - Communication circuits.
      8) "TOS COMMUNICATIONS" - TOS communication line.
      9) "TOS POWER" - TOS power.
      10) "TDC POWER" - Telephone demarcation cabinet power.
      11) "CCTV" - Closed circuit television circuits.
      12) "TMS" - Traffic monitoring station circuits.
      13) "CMS" - Changeable message sign circuits.
      14) "HAR" - Highway advisory radio circuits.
      15) "BOOSTER PUMP" - Booster pump circuit.
2. The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be ⅛" greater.
3. Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within ⅛". Top outside radius of covers and pull boxes shall have a ⅛" radius.
4. Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.
5. All dimensions for the cover for non-traffic pull box are nominal values.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (NON-TRAFFIC PULL BOX)

NO SCALE

RSP ES-8A DATED JULY 19, 2013 SUPERSEDES RSP ES-8A DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8A

2010 REVISED STANDARD PLAN RSP ES-8A

7-15-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	33	38

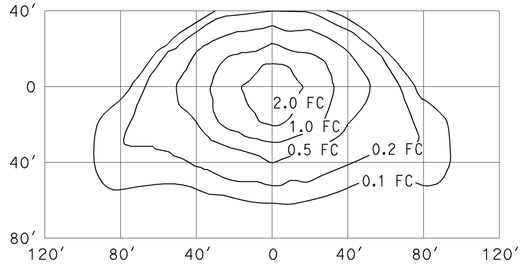
Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Theresa Aziz Gabriel No. E15129 Exp. 6-30-14 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 1-13-14

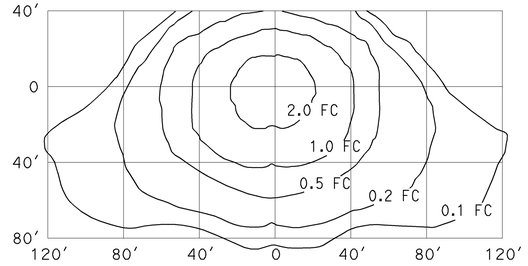
ISOFOOTCANDLE CURVE - MINIMUM



TYPE III MEDIUM CUTOFF

Cutoff Luminaire
34′ Mounting Height
Lamp operated at 22,000 lm
200-W high pressure sodium lamp
ANSI Designation S66

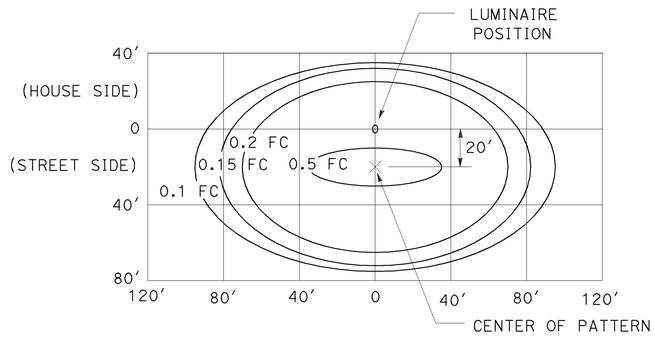
ISOFOOTCANDLE CURVE - MINIMUM



TYPE III MEDIUM CUTOFF

Cutoff Luminaire
40′ Mounting Height
Lamp operated at 37,000 lm
310-W high pressure sodium lamp
ANSI Designation S67

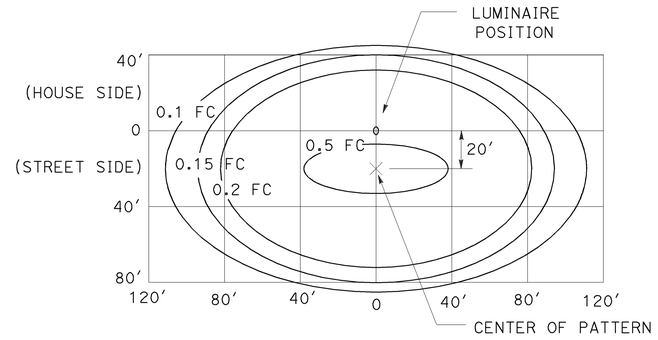
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 1

165-W at 34′ Mounting Height

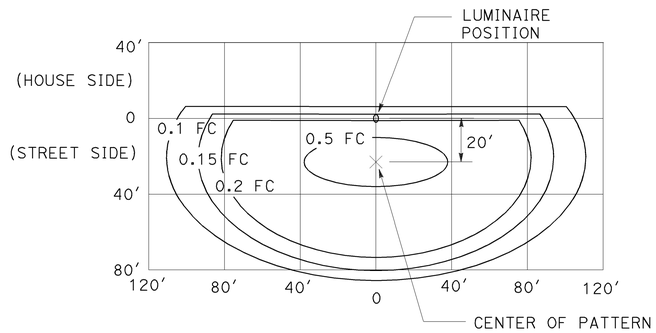
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 2

235-W at 40′ Mounting Height

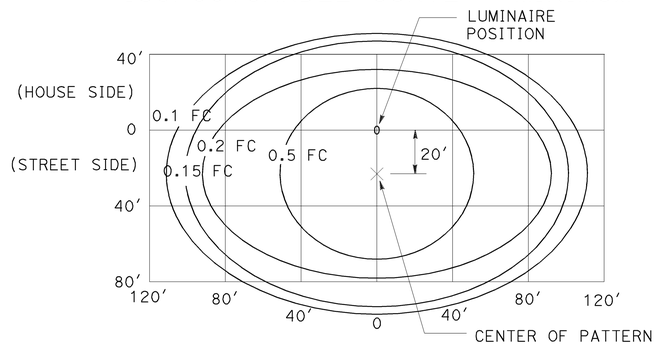
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 3

235-W at 40′ Mounting Height
with back side control

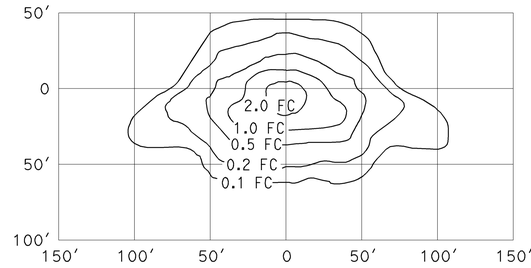
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 4

300-W at 40′ Mounting Height

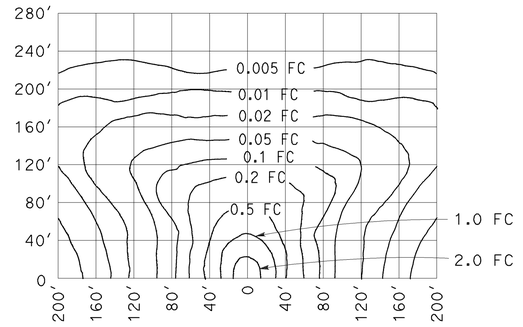
ISOFOOTCANDLE CURVE - MINIMUM



TYPE III MEDIUM CUTOFF

Cutoff Luminaire
30′ Mounting Height
Lamp operated at 16,000 lm
150-W high pressure sodium lamp
ANSI Designation S55

ISOFOOTCANDLE CURVE - MINIMUM



LOW PRESSURE SODIUM LUMINAIRE

40′ Mounting Height
Lamp operated at 33,000 lm
180-W low pressure sodium lamp

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (ISOFOOTCANDLE DIAGRAMS)

NO SCALE

RSP ES-10A DATED JULY 19, 2013 SUPERSEDES RSP ES-10A DATED JULY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-10A

2010 REVISED STANDARD PLAN RSP ES-10A

7-9-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	34	38

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

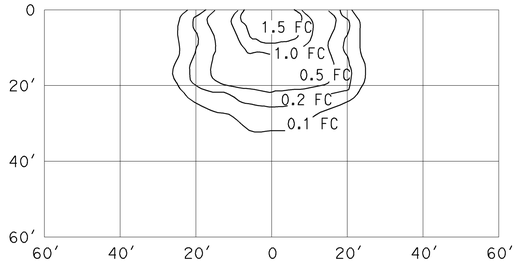
July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jeffery G. McRae
No. E14512
Exp. 6-30-14
ELECTRICAL
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.

TO ACCOMPANY PLANS DATED 1-13-14

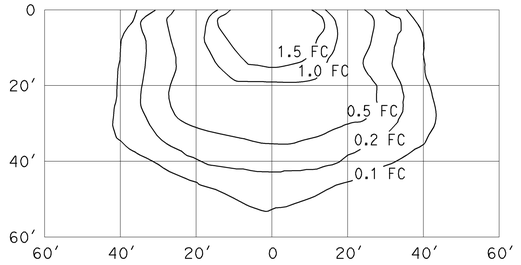
ISOFOOTCANDLE CURVE - MINIMUM



WALL LUMINAIRE

15′ Mounting Height
Lamp operated at 5,800 lm
70-W high pressure sodium lamp
ANSI Designation S62

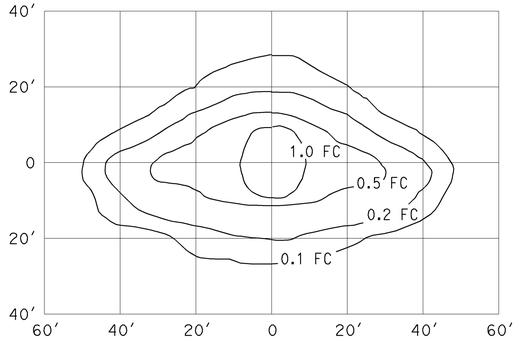
ISOFOOTCANDLE CURVE - MINIMUM



WALL LUMINAIRE

15′ Mounting Height
Lamp operated at 9,500 lm
100-W high pressure sodium lamp
ANSI Designation S54

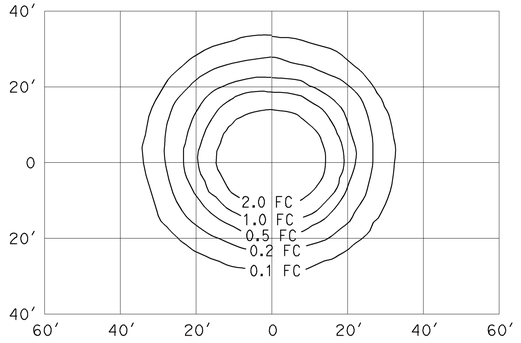
ISOFOOTCANDLE CURVE - MINIMUM



PENDANT SOFFIT LUMINAIRE
TYPE III SHORT

17′ Mounting Height
Lamp operated at 5,800 lm
70-W high pressure sodium lamp
ANSI Designation S62

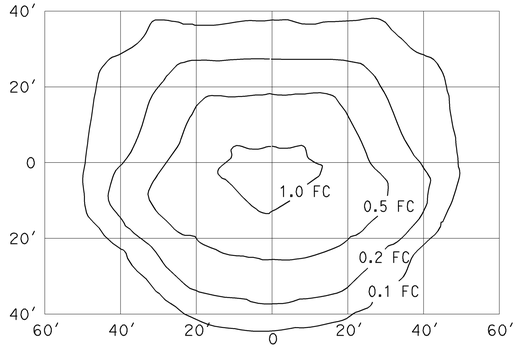
ISOFOOTCANDLE CURVE - MINIMUM



PENDANT SOFFIT LUMINAIRE

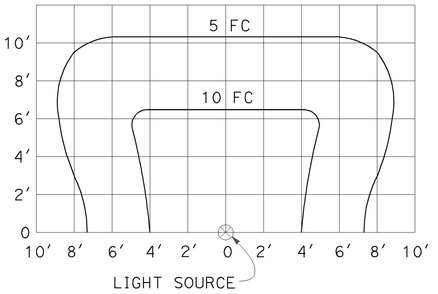
17′ Mounting Height
Lamp operated at 5,800 lm
70-W high pressure sodium lamp
ANSI Designation S62

ISOFOOTCANDLE CURVE - MINIMUM



FLUSH SOFFIT LUMINAIRE

17′ Mounting Height
Lamp operated at 5,800 lm
70-W high pressure sodium lamp
ANSI Designation S62



SIGN LIGHTING FIXTURE
ISOFOOTCANDLE DIAGRAM

NOTES:

1. Curves represent the minimum footcandle (FC) of initial illumination on a 10′-0" x 20′-0" panel.
2. The FC shown are with the fixture attached to the light fixture mounting channel which places the center of the source 4′-8" in front of panel and 1′-0" below the bottom edge.
3. Applicable lamp: 85-W fluorescent phosphor coated induction lamp.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (ISOFOOTCANDLE DIAGRAMS)

NO SCALE

RSP ES-10B DATED JULY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-10B

2010 REVISED STANDARD PLAN RSP ES-10B

2-14-12

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	35	38

Tahir Rashid 07-23-13
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER
Tahir Rashid
No. 61932
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

1/13/14
PLANS APPROVAL DATE

ABBREVIATIONS

AAD	ADHESIVE ANCHORAGE DEVICE
AB	ANCHOR BOLT
AC	ASPHALT CONCRETE
Alt	ALTERNATE
APA	AMERICAN PLYWOOD ASSOCIATION
APC	ALTERNATIVE PIPE CULVERT
Bldg	BUILDING
Blkg	BLOCKING
BN	BOUNDARY NAILING
Btm	BOTTOM
CB	CARRIAGE BOLT
CIDH	CAST IN DRILLED HOLE
CJ	CONTROL JOINT
Clr	CLEAR
CMU	CONCRETE MASONRY UNIT
Conc	CONCRETE
Const	CONSTRUCTION
Cont	CONTINUOUS
CP	COMPLETE PENETRATION WELD
Dbl	DOUBLE
DF	DOUGLAS FIR
Dia	DIAMETER
DIP	DUSTILE IRON PIPE
DN	DIAMETER NOMINAL
do	DITTO
(E)	EXISTING
Ea	EACH
EL	ELEVATION
Elec	ELECTRICAL
Embed	EMBEDMENT
EN	EDGE NAIL
Eq	EQUAL
Exp	EXPANSION
FDGM	FREE DRAINING GRANULAR MATERIAL
FG	FINISH GRADE
FL	FLOW LINE
Flr	FLOOR
FN	FACE (FIELD) NAIL
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
Ftg	FOOTING
Ga	GAGE
Galv	GALVANIZED
GLM	GLUE LAMINATED MEMBER
Gyp Bd	GYPSUM BOARD
HD	HOLDOWN
Hex	HEXAGON
Horiz	HORIZONTAL
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
Jt	JOINT
LOL	LAYOUT LINE
LVL	LAMINATED VENEER LUMBER
m	METER
Max	MAXIMUM
MEA	MECHANICAL EXPANSION ANCHOR
Mech	MECHANICAL
Mfr	MANUFACTURER
mm	MILLIMETER
Min	MINIMUM
MIW	MALLEABLE IRON WASHER
OC	ON CENTER
OG	ORIGINAL GRADE
OH	OPPOSITE HAND
Opt	OPTIONAL
P	PITCH
PDF	POWER DRIVEN FASTENER
Plwd	PLYWOOD
PT	PRESSURE TREATED
PW	PUDDLE WELD
PWB	PREFABRICATED WOOD I BEAM
RCP	REINFORCED CONCRETE PIPE
Reinf	REINFORCED, REINFORCING
Req'd	REQUIRED
SDSTS	SELF DRILL, SELF TAP SCREW
Sim	SIMILAR
SPS	STRUCTURAL PLYWOOD SHEATHING
Sq	SQUARE
Stagg	STAGGERED
Std	STANDARD
SW	STUD WELD
Sym	SYMMETRICAL
T&G	TONGUE-AND-GROOVE
TN	TOE NAIL
TS	TUBE STEEL
Typ	TYPICAL
UON	UNLESS OTHERWISE NOTED
Vert	VERTICAL

SYMBOLS

BLOCKING IN SECTION OR ELEVATION

CONTINUOUS MEMBER IN SECTION

END OF MEMBER

BEARING WALL

SHEAR WALL

LENGTH
X XXXX — SHEARWALL SCHEDULE SYMBOL
REFERENCE

GLUE LAMINATED MEMBER SECTION

NORTH ARROW

X / SYX-X — PARTIAL SECTION CUT

X / SYX-X — FULL SECTION CUT

X — REVISION CALLOUT

A — GRID LINE INDICATOR

℄ CENTER LINE

℄ STATION LINE

PL STEEL PLATE

Ø DIAMETER

□ SQUARE

CMU WALL ON PLAN VIEWS

DROPPED SLAB ON PLAN VIEWS

REINFORCED CONCRETE

SAND

STRUCTURE BACKFILL

STRUCTURE EXCAVATION

ORIGINAL GROUND

LIMITS OF STRUCTURE BACKFILL (SHOWN ON PLAN VIEWS)

FREE DRAINING GRANULAR MATERIAL

X — BOTTOM OF FOOTING

ELEVATION OR WORKING POINT

EXISTING FEATURES

HOLDOWN, Typ
Simpson
USP
Equal
(MANUFACTURERS ARE THOSE NOTED IN THE ORDER SHOWN)

FRAME CONNECTOR
Simpson
USP
Equal
(MANUFACTURERS ARE THOSE NOTED IN THE ORDER SHOWN)

3 / ST-1 — 5b
DETAIL NUMBER OR NOTE NUMBER
ADDITIONAL REFERENCE (IF REQUIRED)
SHEET NUMBER

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING
FILE NO. XS-25-0
DRAWING DATE 1-04
DESIGN BY Sean Samad — CHECKED Lee Ostrander
DETAILS BY Peter F. von Savoye, II — CHECKED
SUBMITTED BY Sean Samad, DESIGN ENGINEER
APPROVED R E Travis, DESIGN SUPERVISOR

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.
POST MILE R56.5/R57.0

LAMONT-ODETT VISTA POINT

LEGEND

SHEET ST-1

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3581 CONTRACT No.: 284504
PROJECT NUMBER & PHASE: 07000211801

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
1-16-04 | 04-23-12 | 08-24-12 | 12-26-13	1	4

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	36	38

Tahir Rashid 07-23-13
REGISTERED CIVIL ENGINEER — DATE

1/13/14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Tahir Rashid — No. 61932 — Exp. 9-30-15 — 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.

PROJECT DESIGN CRITERIA

The building work on this project has been designed to conform to the 2010 California Building Code (2009 IBC).

MATERIALS

REINFORCED CONCRETE: (Ultimate Strength Design) :

$f'c$ = 3,000 psi

f_y = 60,000 psi

RECYCLED PLASTIC LUMBER: (4x4 Beams & 8x8 Posts)

BEAM (4x4 TRUE): Live Load = 20 psf LATERAL

Concentrated Load = 200 lbs VERTICAL

POST (8x8 TRUE): Axial Load = 500 lbs

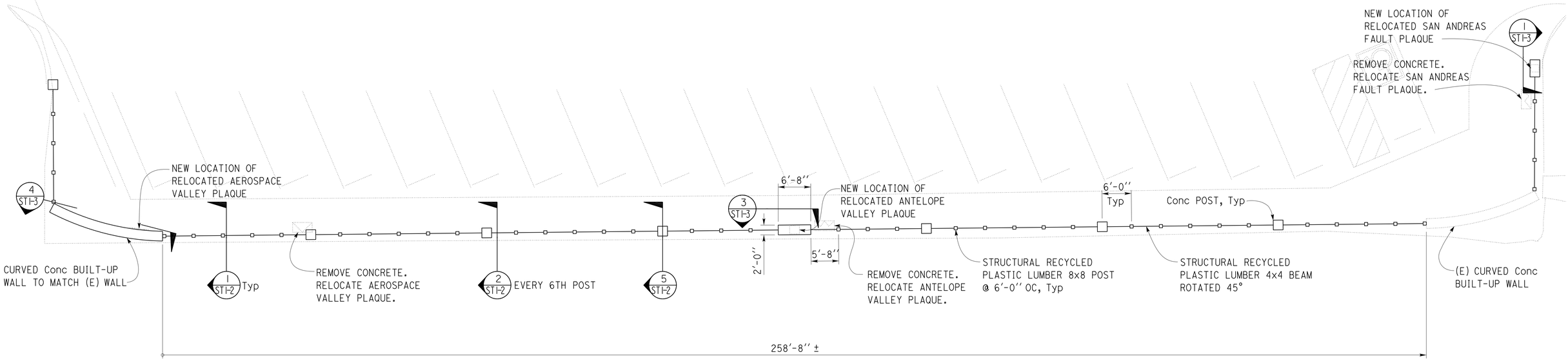
	MINUMUM VALUE	ASTM TEST
Flexural Strength:	2,750 psi	D6109-97
Flexural Modulus:	306,080 psi	D6109-97
Compression Strength:	2,340 psi	D6108-97
Compression Modulus:	114,900 psi	D6108-97

FOUNDATION:

Soils report dated : N/A

Allowable Soil Pressure (DL + LL) : = 1,500 psf Assumed

Allowable Bearing Pressure: = 150 psf/ft Assumed



1 RAIL POST LAYOUT PLAN

1" = 10' - 0"

NOTE:
The Contractor must verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY Tahir Rashid	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.
DETAILS	BY Daniel Harakh	CHECKED Tahir Rashid			POST MILE R56.5/R57.0
QUANTITIES	BY	CHECKED		UNIT: 3581 CONTRACT No.: 284504 PROJECT NUMBER & PHASE: 07000211801	LAMONT-ODETT VISTA POINT — RAIL POST LAYOUT PLAN

SHEET ST1-1

TAEMWW Imperial - CCSC Rev. 02/13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 06-14-13 | 07-11-13 | 07-19-13 | 07-23-13 | 09-11-13 | 12-26-13

SHEET 2 OF 4

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	37	38

Tahir Rashid — REGISTERED CIVIL ENGINEER — 07-23-13 DATE

1/13/14 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Tahir Rashid — No. 61932 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

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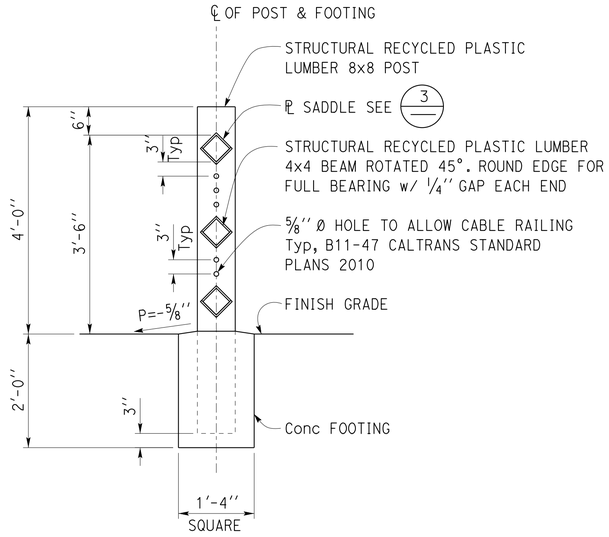
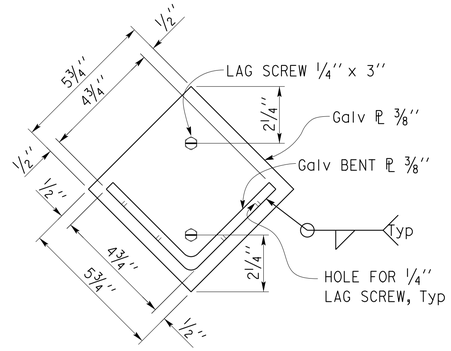
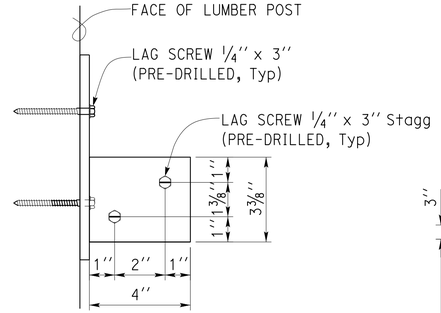


1 RAIL POST DETAIL

3/4'' = 1' - 0''



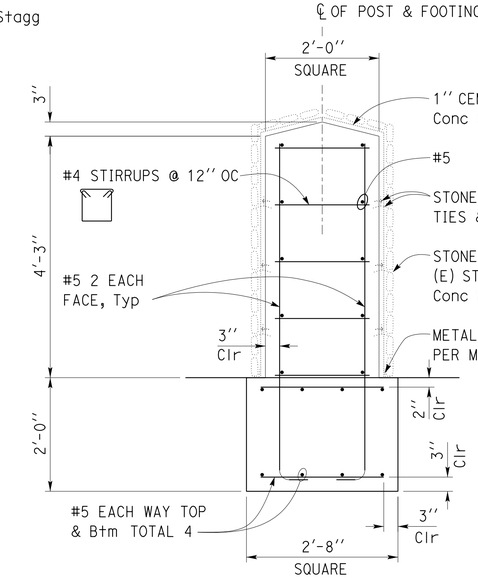
A **FRONT VIEW**



B **SIDE VIEW**

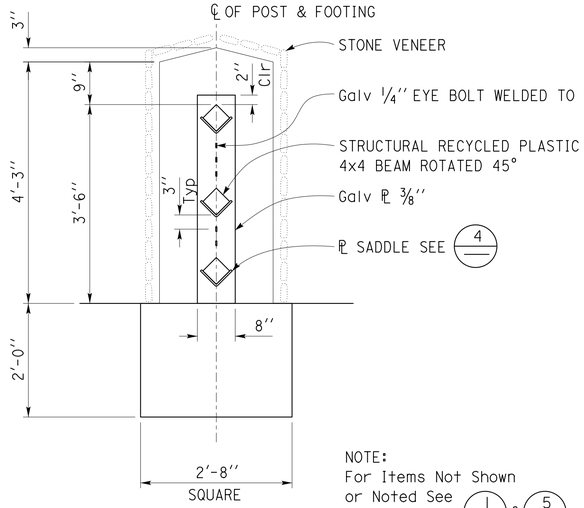
3 RAILING SADDLE BRACKET AT PLASTIC LUMBER POST

4 '' = 1' - 0''



5 CONCRETE POST

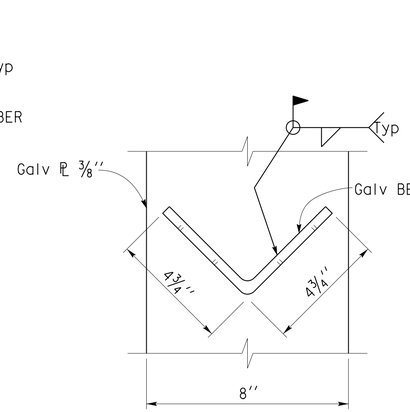
3/4'' = 1' - 0''



NOTE:
For Items Not Shown or Noted See 1 & 5

2 CONCRETE POST

3/4'' = 1' - 0''



A **FRONT VIEW**

B **SIDE VIEW**

4 RAILING SADDLE BRACKET AT CONCRETE POST

4 '' = 1' - 0''

NOTE:
The Contractor must verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY Tahir Rashid	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.
DETAILS	BY Daniel Harakh	CHECKED Tahir Rashid			POST MILE R56.5/R57.0
QUANTITIES	BY	CHECKED			

LAMONT-ODETT VISTA POINT

POST SECTION & DETAILS

SHEET ST1-2

TAEMWW Imperial - CCSC Rev. 02/13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3581 CONTRACT No.: 284504
PROJECT NUMBER & PHASE: 07000211801

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)						SHEET	OF
06-14-13	07-12-13	07-16-13	07-22-13	09-11-13	12-26-13	3	4

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	14	R56.5/R57.0	38	38

Tahir Rashid 07-23-13
REGISTERED CIVIL ENGINEER DATE

1/13/14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Tahir Rashid — No. 61932 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

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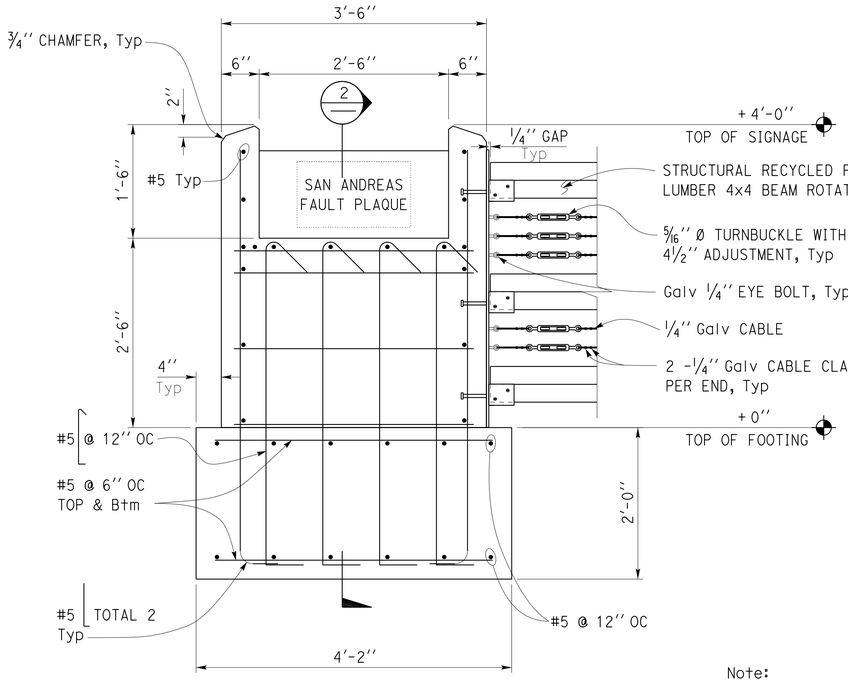
A NOTE

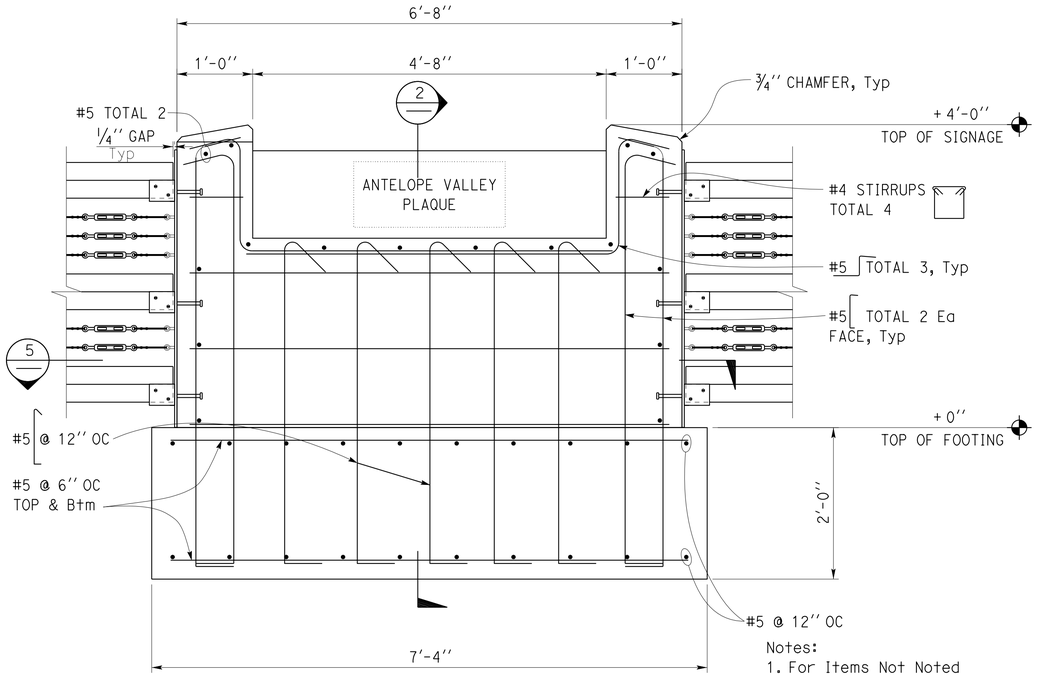
1. All miscellaneous metal shall be hot-dipped galvanized after fabrication.



Note:
Stone Veneer Not Shown For Clarity

1 SAN ANDREAS FAULT SIGNAGE WALL

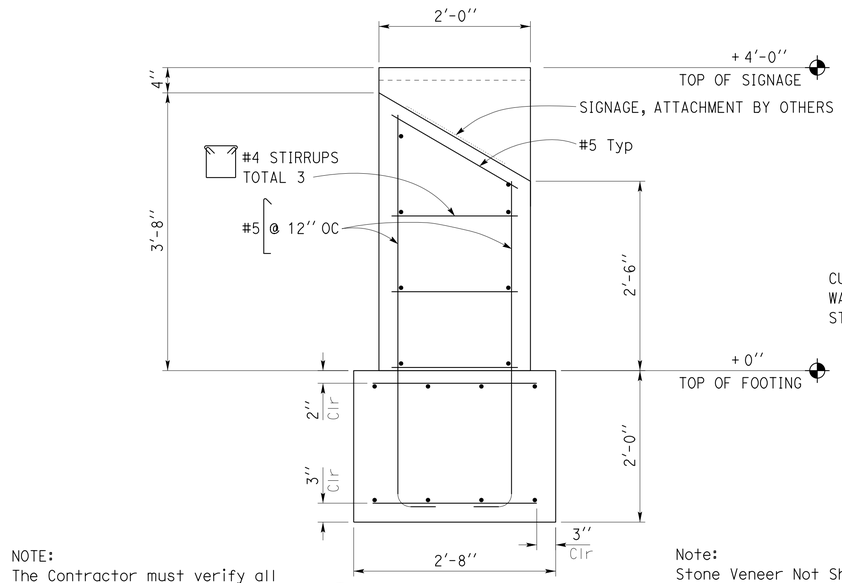
1" = 1' - 0"



Notes:
1. For Items Not Noted See (1)
2. Stone Veneer Not Shown For Clarity

3 ANTELOPE VALLEY SIGNAGE WALL

1" = 1' - 0"

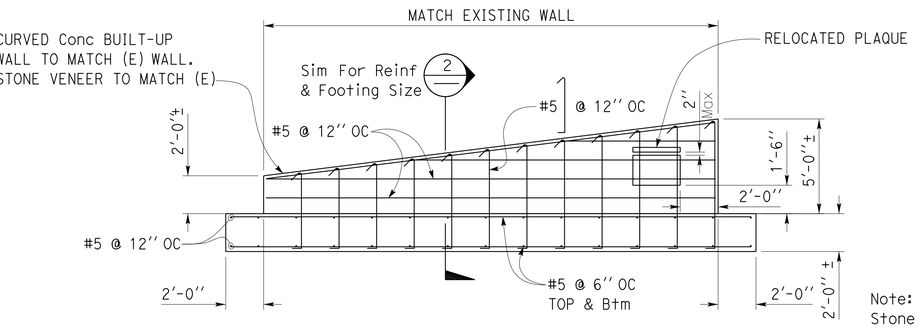


NOTE:
The Contractor must verify all controlling field dimensions before ordering or fabricating any material.

Note:
Stone Veneer Not Shown

2 SIGNAGE WALL

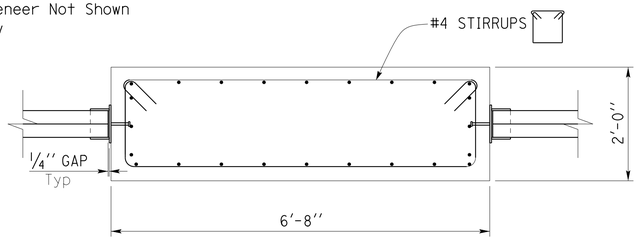
1" = 1' - 0"



Note:
Stone Veneer Not Shown

4 CURVED CONCRETE WALL PROFILE

No Scale



Note:
For Items Not Noted See (2)

5 SIGNAGE WALL SECTION

¾" = 1' - 0"

DESIGN	BY Tahir Rashid	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.
DETAILS	BY Daniel Harakh	CHECKED Tahir Rashid			POST MILE R56.5/R57.0
QUANTITIES	BY	CHECKED			

LAMONT-ODETT VISTA POINT

CONCRETE COLUMN SECTIONS & DETAILS

SHEET ST1-3

TAEMWW Imperial - CCSC Rev. 02/13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3581 CONTRACT No.: 284504
PROJECT NUMBER & PHASE: 07000211801

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 07-19-13 07-23-13 09-12-13 12-26-13

SHEET 4 OF 4

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