

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	LOCATIONS OF CONSTRUCTION
3-7	ELECTRICAL PLANS
8-13	REVISED STANDARD PLANS

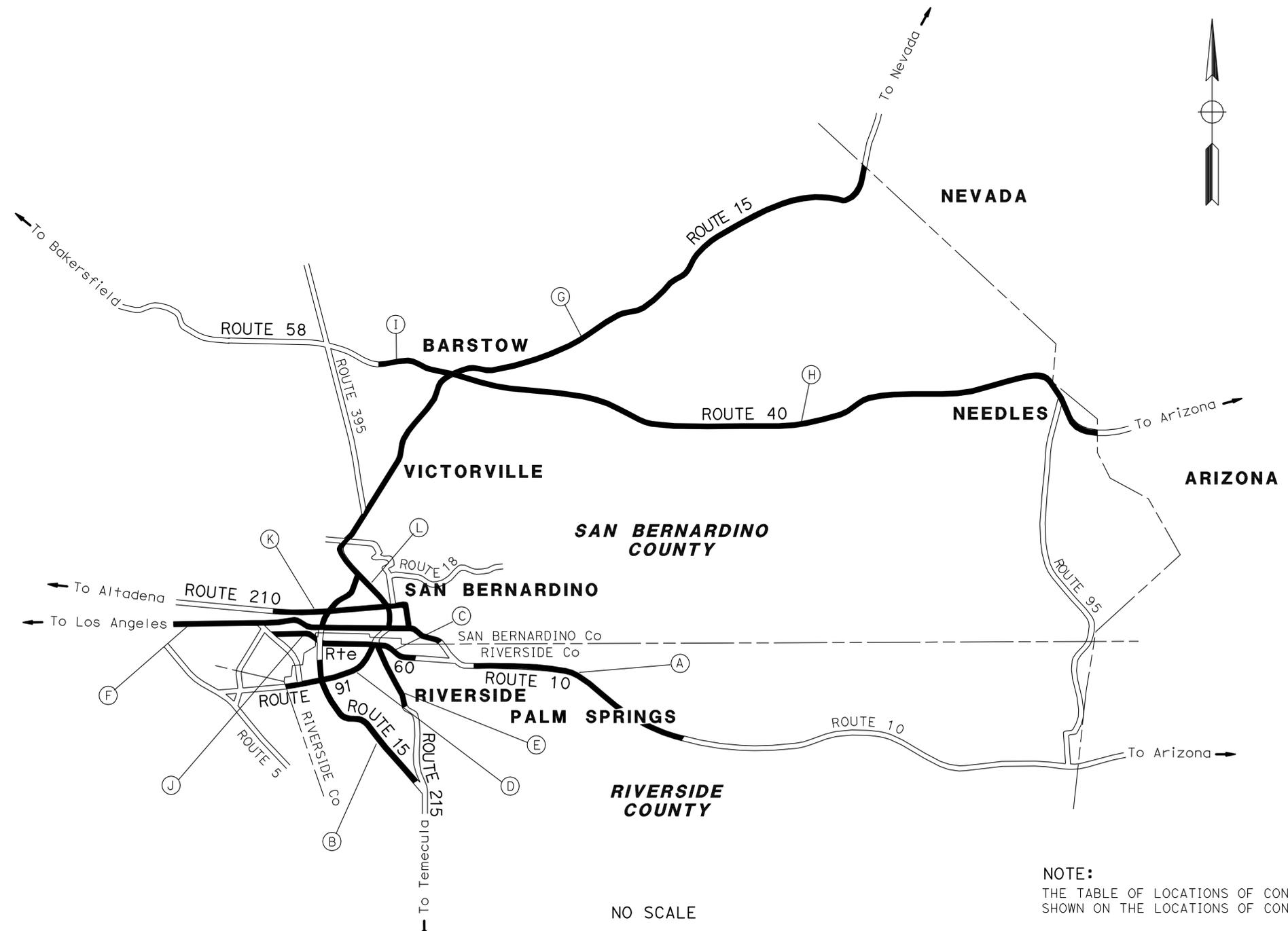
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN RIVERSIDE AND
SAN BERNARDINO COUNTIES
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

ACNH-000C(327)E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	10,15,40, 58,60,etc.	Var	1	13



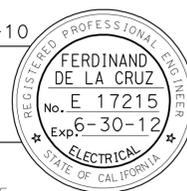
ROUTE OF CONSTRUCTION

Loc	COUNTY	ROUTE	POST MILE	LOCATIONS
(A)	Riv	10	10.3 - 59.4	VARIES
(B)	Riv	15	0.5 - 47.7	VARIES
(C)	Riv	60	10.2 - 15.7	VARIES
(D)	Riv	91	4.9 - 10.1	VARIES
(E)	Riv	215	R35.7 - 40.8	VARIES
(F)	SBd	10	2.7 - 32.7	VARIES
(G)	SBd	15	5.9 - 182.0	VARIES
(H)	SBd	40	R3.0 - 149.0	VARIES
(I)	SBd	58	R32.9	VARIES
(J)	SBd	60	0.8 - R7.9	VARIES
(K)	SBd	210	0.8 - R30.2	VARIES
(L)	SBd	215	0.2 - 12.7	VARIES

PROJECT MANAGER
MELECIO CHALCO

DESIGN ENGINEER
FERDINAND DE LA CRUZ

Ferdinand De La Cruz 5-13-10
 PROJECT ENGINEER DATE
 REGISTERED ELECTRICAL ENGINEER



July 26, 2010
 PLANS APPROVAL DATE

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

NOTE:
 THE TABLE OF LOCATIONS OF CONSTRUCTION IS SHOWN ON THE LOCATIONS OF CONSTRUCTION SHEET.

NO SCALE

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN B

FUNCTIONAL SUPERVISOR
 FERDINAND DE LA CRUZ

CALCULATED/DESIGNED BY
 CHECKED BY

L. PENALOZA
 F. DE LA CRUZ

REVISED BY
 DATE REVISED

KD
 04-22-10

LOCATIONS OF CONSTRUCTION

Loc	No.	COUNTY	ROUTE	PM	DIRECTION	Loc	No.	COUNTY	ROUTE	PM	DIRECTION	
A	1	Riv	10	10.3	WB	G	30	SBd	15	30.4	SB	
	2	Riv	10	R24.0	EB		31	SBd	15	36.7	SB	
	3	Riv	10	59.4	WB		32	SBd	15	45.6	SB	
B	4	Riv	15	0.5	NB		33	SBd	15	51.5	NB	
	5	Riv	15	39.1	NB		34	SBd	15	68.5	NB	
	6	Riv	15	44.7	SB		35	SBd	15	70.8	SB	
	7	Riv	15	47.7	NB		36	SBd	15	80.6	SB	
C	8	Riv	60	10.2	EB		37	SBd	15	R135.8	NB	
	9	Riv	60	15.7	WB		38	SBd	15	R139.3	SB	
D	10	Riv	91	4.9	WB		39	SBd	15	182.0	SB	
	11	Riv	91	4.9	EB		H	40	SBd	40	R3.0	EB
12	Riv	91	10.1	WB	41			SBd	40	R3.0	WB	
E	13	Riv	215	R35.7	NB		42	SBd	40	149.0	WB	
	14	Riv	215	39.1	SB		I	43	SBd	58	R32.9	EB
15	Riv	215	40.8	NB	44			SBd	60	0.8	WB	
F	16	SBd	10	2.7	EB		J	45	SBd	60	3.7	EB
	17	SBd	10	8.4	EB			46	SBd	60	5.7	WB
	18	SBd	10	14.5	WB			47	SBd	60	R7.9	EB
	19	SBd	10	R22.2	EB		K	48	SBd	210	0.8	WB
	20	SBd	10	26.9	WB			49	SBd	210	0.8	EB
	21	SBd	10	27.5	EB			50	SBd	210	7.8	EB
	22	SBd	10	32.7	WB			51	SBd	210	15.1	WB
G	23	SBd	15	5.9	NB			52	SBd	210	19.0	EB
	24	SBd	15	5.9	SB			53	SBd	210	R25.2	EB
	25	SBd	15	10.0	SB			54	SBd	210	R30.2	WB
	26	SBd	15	11.5	NB		L	55	SBd	215	0.2	SB
	27	SBd	15	R18.2	NB			56	SBd	215	1.0	NB
	28	SBd	15	R18.2	SB			57	SBd	215	6.6	SB
	29	SBd	15	30.4	NB			58	SBd	215	12.7	NB

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	10,15,40, 58,60, etc.	Var	2	13

Ferdinand De La Cruz 5-6-10
 REGISTERED ELECTRICAL ENGINEER DATE
 7-26-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
FERDINAND DE LA CRUZ
 No. E 17215
 Exp. 6-30-12
 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.

LOCATIONS OF CONSTRUCTION
LC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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 FUNCTIONAL SUPERVISOR
 FERDINAND DE LA CRUZ
 CALCULATED/DESIGNED BY
 CHECKED BY
 L. PENALOZA
 F. DE LA CRUZ
 REVISED BY
 DATE REVISED
 KD
 04-22-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	10,15,40, 58,60, etc.	Var	3	13

REGISTERED ELECTRICAL ENGINEER DATE 5-6-10
 7-26-10
 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.

LOCATION	NUMBER	APPROXIMATE LOCATION (RIVERSIDE COUNTY)	APPROXIMATE POST MILE	DIRECTION	ROUTE	CONSTRUCTION NOTES			
						MODIFY MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM (SEE SHEET E-5 FOR DETAILS)	RETROFIT MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM (SEE SHEET E-5 FOR DETAILS)	APPROXIMATE GPS COORDINATES OF EXISTING CHANGEABLE MESSAGE SIGN (REFERENCE ONLY)	
								LATTITUDE	LONGITUDE
A	1	HIGHLAND SPRINGS Rd	10.3	WB	10		1	N 33° 55' 38"	W 116° 57' 15.4"
	2	VERBENIA Ave	R24.0	EB	10		1	N 33° 55' 25"	W 116° 41' 56"
	3	0.5 MILES EAST OF DILLION Rd	59.4	WB	10	1		N 33° 42' 51.6"	W 116° 09' 52.5"
B	4	0.5 MILES NORTH OF SD COUNTY LINE	0.5	NB	15	1		N 33° 26' 22.2"	W 117° 08' 16.8"
	5	0.4 MILES NORTH OF ONTARIO Ave	39.1	NB	15		1	N 33° 30' 39.81"	W 117° 19' 14.15"
	6	1.1 MILES SOUTH OF 6TH St	44.7	SB	15		1	N 33° 33' 8.1"	W 117° 20' 3.47"
	7	68TH STREET	47.7	NB	15		1	N 33° 57' 51.1"	W 117° 32' 54.76"
C	8	0.7 MILES WEST OF RUBIDOUX Blvd	10.2	EB	60		1	N 34° 0' 21"	W 117° 24' 54.4"
	9	EAST OF HEACOCK Ave	15.7	WB	60		1	N 33° 56' 28.6"	W 117° 14' 30"
D	10	0.4 MILES WEST OF LINCOLN Ave	4.9	WB	91		1	N 33° 52' 57"	W 117° 35' 23"
	11	0.9 MILES EAST OF MAPLE St	4.9	EB	91		1	N 33° 52' 55.6"	W 117° 35' 23.15"
	12	0.7 MILES WEST OF PIERCE St	10.1	WB	91	1		N 33° 53' 35.2"	W 117° 30' 14.6"
C/E	13	Rte 215 AT CACTUS Ave	R35.7	NB	215		1	N 33° 54' 9.3"	W 117° 16' 36.47"
	14	Rte 215 AT SYCAMORE CANYON Blvd	39.1	SB	60/215		1	N 33° 57' 41.2"	W 117° 19' 13.5"
	15	AT CENTRAL Ave	40.8	NB	60/215		1	N 33° 57' 36.2"	W 117° 18' 37.8"
SUBTOTAL (THIS SHEET)						3	12		

RETROFIT MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM
MODIFY MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM
(LOCATIONS)
E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

LAST REVISION | DATE PLOTTED => 27-JUL-2010 | 05-06-10 | TIME PLOTTED => 11:14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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 L. PENALOZA
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 DATE REVISED
 04-22-10
 KD

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	10,15,40, 58,60, etc.	Var	4	13

REGISTERED ELECTRICAL ENGINEER DATE 5-6-10
 7-26-10
 PLANS APPROVAL DATE

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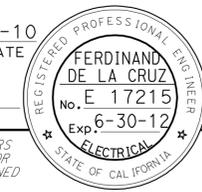
LOCATION	NUMBER	APPROXIMATE LOCATION (SAN BERNARDINO COUNTY)	APPROXIMATE POST MILE	DIRECTION	ROUTE	CONSTRUCTION NOTES			
						MODIFY MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM (SEE SHEET E-5 FOR DETAILS)	RETROFIT MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM (SEE SHEET E-5 FOR DETAILS)	APPROXIMATE GPS COORDINATES OF EXISTING CHANGEABLE MESSAGE SIGN (REFERENCE ONLY)	
								LATTITUDE	LONGITUDE
F	16	EAST OF MOUNTAIN Ave	2.7	EB	10	1		N 34° 05' 13.5"	W 116° 39' 51.1"
	17	0.1 MILE EAST OF HAVEN Ave	8.4	EB	10		1	N 34° 4' 2.1"	W 117° 34' 19.5"
	18	0.5 MILE WEST OF CHERRY Ave	14.5	WB	10	1		N 34° 3' 60"	W 117° 27' 54.4"
	19	0.5 MILE EAST OF RANCHO Ave	R22.2	EB	10		1	N 34° 3' 60"	W 117° 19' 57.8"
	20	EAST OF TIPPECANOE Ave	26.9	WB	10		1	N 34° 40' 0.7"	W 117° 14' 59.5"
	21	EAST OF MOUNTAIN VIEW Ave	27.5	EB	10		1	N 34° 03' 00"	W 117° 14' 27.7"
	22	WEST OF FORD St	32.7	WB	10		1	N 34° 03' 00"	W 117° 09' 35"
G	23	0.5 MILE SOUTH OF BASELINE Ave	5.9	NB	15		1	N 34° 06' 44.7"	W 117° 31' 29.3"
	24	0.5 MILE SOUTH OF BASELINE Ave	5.9	SB	15		1	N 34° 07' 44.7"	W 117° 31' 29.3"
	25	0.2 MILE NORTH OF SUMMIT Ave	10.0	SB	15		1	N 34° 09' 16.3"	W 117° 28' 26.4"
	26	0.5 SOUTH OF SIERRA Ave	11.5	NB	15		1	N 34° 10' 11.1"	W 117° 27' 20.1"
	27	3.0 MILES NORTH OF KENWOOD Ave	R18.2	NB	15		1	N 34° 16' 27"	W 117° 26' 59"
	28	3.0 MILES NORTH OF KENWOOD Ave	R18.2	SB	15		1	N 34° 16' 27"	W 117° 26' 59"
	29	SOUTH OF US ROUTE 395	30.4	NB	15		1	N 34° 22' 59.5"	W 117° 24' 54.7"
	30	NORTH OF US ROUTE 395	30.4	SB	15		1	N 34° 22' 59.5"	W 117° 24' 54.7"
SUBTOTAL (THIS SHEET)						2	13		

RETROFIT MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM
MODIFY MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM
(LOCATIONS)
E-2

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

LAST REVISION DATE PLOTTED => 27-JUL-2010 05-06-10 TIME PLOTTED => 11:15

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	10,15,40, 58,60, etc.	Var	5	13
 REGISTERED ELECTRICAL ENGINEER			5-6-10	DATE	
7-26-10 PLANS APPROVAL DATE					
					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

LOCATION	NUMBER	APPROXIMATE LOCATION (SAN BERNARDINO COUNTY)	APPROXIMATE POST MILE	DIRECTION	ROUTE	CONSTRUCTION NOTES			
						MODIFY MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM (SEE SHEET E-5 FOR DETAILS)	RETROFIT MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM (SEE SHEET E-5 FOR DETAILS)	APPROXIMATE GPS COORDINATES OF EXISTING CHANGEABLE MESSAGE SIGN (REFERENCE ONLY)	
								LATTITUDE	LONGITUDE
G	31	0.8 MILE SOUTH OF BEAR VALLEY	36.7	SB	15		1	N 34° 27' 34.5"	W 117° 21' 17"
	32	STODDARD WELLS Rd	45.6	SB	15		1	N 34° 34' 7.8"	W 117° 16' 45.7"
	33	SOUTH OF DALE EVANS Pkwy	51.5	NB	15		1	N 34° 38' 24.6"	W 117° 13' 15.9"
	34	SOUTH OF LENWOOD Rd	68.5	NB	15		1	N 34° 50' 58.9"	W 117° 05' 10.1"
	35	EAST OF ROUTE 58 Jct	70.8	SB	15		1	N 34° 52' 41.8"	W 117° 04' 4.6"
	36	1.1 MI SOUTH OF YERMO Rd	80.6	SB	15		1	N 34° 54' 4.6"	W 116° 54' 30.5"
	37	SOUTH OF BAKER Rd	R135.8	NB	15		1	N 35° 15' 23.7"	W 116° 05' 2.4"
	38	NORTH OF BAKER Rd	139.3	SB	15		1	N 35° 17' 17.7"	W 116° 02' 20.5"
	39	YATES WELL Rd	182.0	SB	15		1	N 35° 32' 57.1"	W 115° 24' 58.1"
H	40	EAST OF MAIN St	R3.0	EB	40		1	N 34° 52' 19.8"	W 116° 57' 36.2"
	41	EAST OF MAIN St	R3.0	WB	40		1	N 34° 52' 19.8"	W 116° 57' 36.2"
	42	EAST OF FIVE MILE Rd	149.0	WB	40		1	N 34° 45' 11.9"	W 114° 33' 58.8"
I	43	EAST OF LENWOOD Ave	R32.9	EB	58		1	N 34° 53' 35.8"	W 117° 05' 40.1"
J	44	WEST OF PIPELINE Ave	0.8	WB	60		1	N 34° 01' 44.7"	W 117° 42' 56.7"
	45	EAST OF MOUNTAIN Ave	3.7	EB	60		1	N 34° 01' 49.4"	W 117° 39' 58.5"
SUBTOTAL (THIS SHEET)							3		12

RETROFIT MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM MODIFY MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM (LOCATIONS)

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

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 F. DE LA CRUZ
 REVISED BY
 DATE REVISED
 KO
 04-22-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	10,15,40, 58,60, etc.	Var	6	13

5-6-10
 REGISTERED ELECTRICAL ENGINEER DATE
 7-26-10
 PLANS APPROVAL DATE

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LOCATION	NUMBER	APPROXIMATE LOCATION (SAN BERNARDINO COUNTY)	APPROXIMATE POST MILE	DIRECTION	ROUTE	CONSTRUCTION NOTES			
						MODIFY MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM (SEE SHEET E-5 FOR DETAILS)	RETROFIT MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM (SEE SHEET E-5 FOR DETAILS)	APPROXIMATE GPS COORDINATES OF EXISTING CHANGEABLE MESSAGE SIGN (REFERENCE ONLY)	
								LATTITUDE	LONGITUDE
J	46	EAST OF GROVE Ave	5.7	WB	60	1		N 34° 01' 49.8"	W 117° 37' 52.9"
	47	EAST OF ARCHIBALD Ave UC	R7.9	EB	60	1		N 34° 01' 50.2"	W 117° 35' 35"
K	48	0.75 MILE EAST OF BASELINE Ave	0.8	WB	210	1		N 34° 07' 55.5"	W 117° 40' 55.2"
	49	0.75 MILE EAST OF BASELINE Ave	0.8	EB	210	1		N 34° 07' 55.5"	W 117° 40' 55.2"
	50	Rte 210 AT MILLIKEN Ave	7.8	EB	210	1		N 34° 8' 11.8"	W 117° 33' 37.5"
	51	SIERRA Ave	15.1	WB	210	1		N 34° 8' 9.5"	W 117° 36' 10"
	52	RIVERSIDE Ave	19.0	EB	210	1		N 34° 8' 10.5"	W 117° 22' 15.8"
	53	1.0 MILE EAST OF WATERMAN Ave	R25.2	EB	210	1		N 34° 8' 38.4"	W 117° 15' 41.7"
	54	WEST OF 5TH St UC	R30.2	WB	210	1		N 34° 6' 30.9"	W 117° 11' 56.3"
L	55	0.4 MILE SOUTH OF IOWA Ave	0.2	SB	215	1		N 34° 12' 85"	W 117° 20' 29"
	56	0.6 MILE NORTH OF IOWA Ave	1.0	NB	215	1		N 34° 1' 48.8"	W 117° 19' 44.5"
	57	RIALTO Ave	6.6	SB	215	1		N 34° 5' 59.7"	W 117° 18' 6.6"
	58	0.2 MILE NORTH OF UNIVERSITY Pkwy	12.7	NB	215	1		N 34° 10' 36.9"	W 117° 20' 38.6"
SUBTOTAL (THIS SHEET)							13		
TOTAL						8	50		

RETROFIT MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM MODIFY MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM (LOCATIONS)

E-4

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



LAST REVISION | DATE PLOTTED => 27-JUL-2010
 05-06-10 | TIME PLOTTED => 11:15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FUNCTIONAL SUPERVISOR
 FERDINAND DE LA CRUZ

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L. PENALOZA
 F. DE LA CRUZ

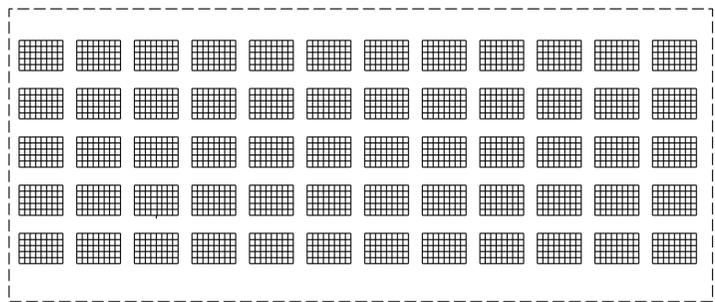
REVISED BY
 DATE REVISED

KD
 04-22-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv, SBd	10,15,40, 58,60, etc.	Var	7	13

Ferdinand De La Cruz 5-6-10
 REGISTERED ELECTRICAL ENGINEER DATE
 7-26-10
 PLANS APPROVAL DATE

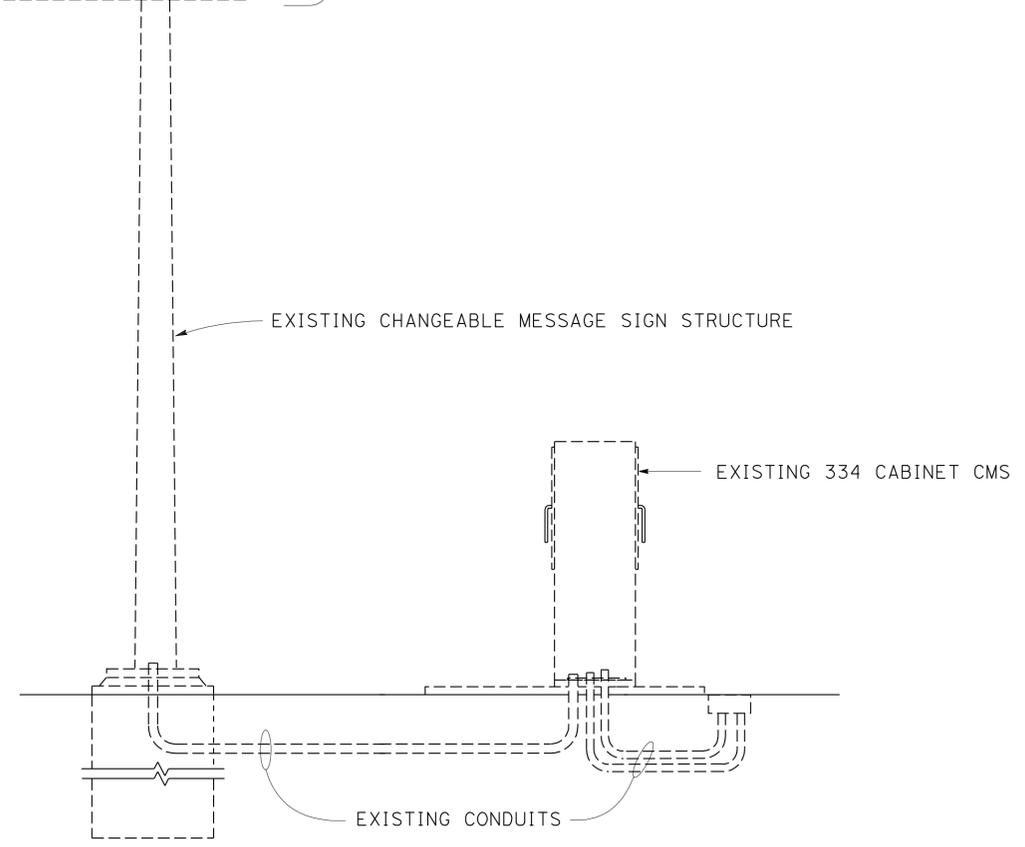
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RETROFIT 1 OR 2 MODIFY,
 (SEE SHEETS E-1 THROUGH E-4 FOR LOCATIONS)

NOTES (THIS SHEET ONLY):

- 1 RC Exist XENON PANELS. INSTALL LED PIXEL MATRIX MODULES (60 PER SIGN).
- 2 RC Exist cms AND CABLE HARNESS. INSTALL STATE-FURNISHED CMS, AND CABLE HARNESS.



TYPICAL CHANGEABLE MESSAGE SIGN LAYOUT

**RETROFIT MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM
 MODIFY MODEL 500 CHANGEABLE MESSAGE SIGN SYSTEM**

(DETAIL)

NO SCALE

E-5

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => frmartin
 DGN FILE => 80m770ua005.dgn

CU 08396

EA 0M7701

BORDER LAST REVISED 4/11/2008

LAST REVISION DATE PLOTTED => 28-JUL-2010
 05-06-10 TIME PLOTTED => 10:34

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv, SBd	10,15,40, 58,60, etc.	Var	8	13

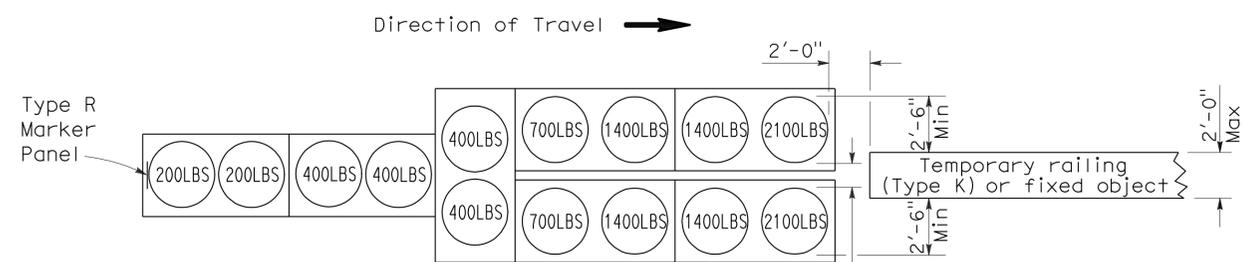
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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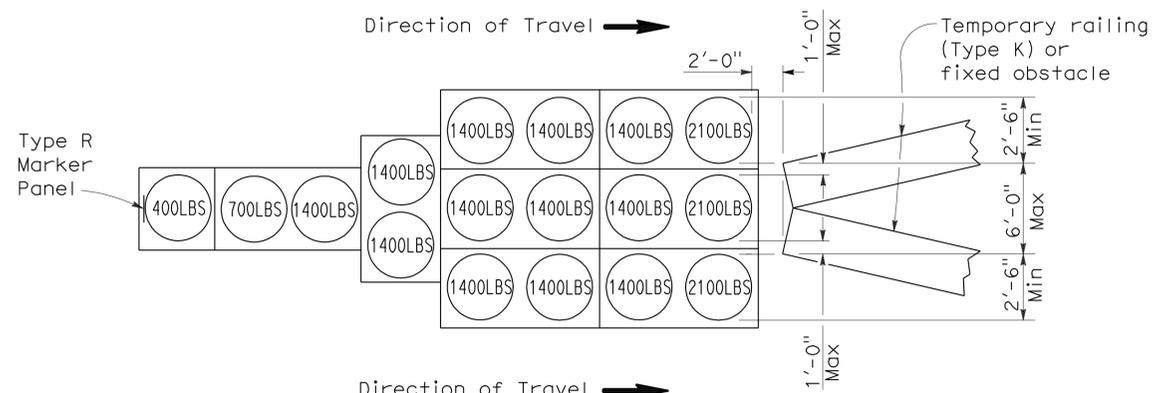
To accompany plans dated 7-26-10

2006 REVISED STANDARD PLAN RSP T1A



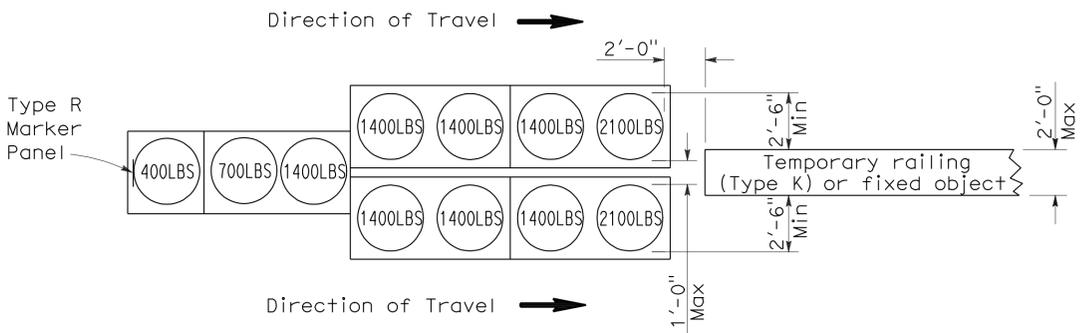
ARRAY 'TU14'

Approach speed 45 mph or more



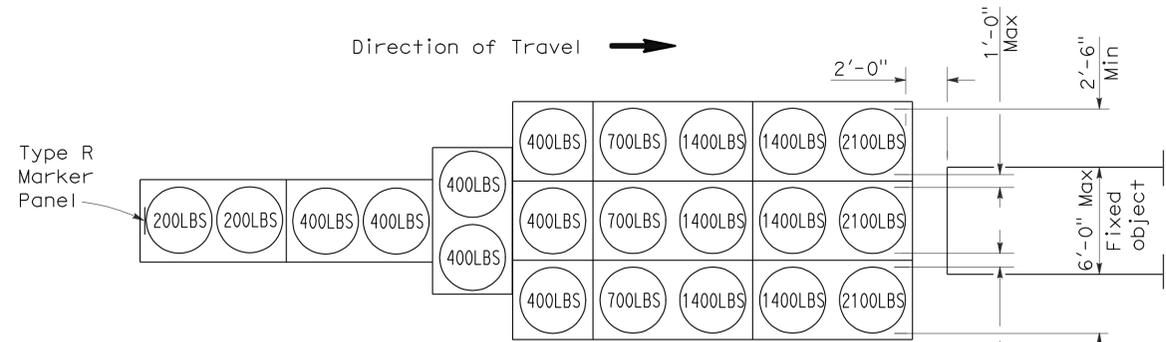
ARRAY 'TU17'

Approach speed less than 45 mph



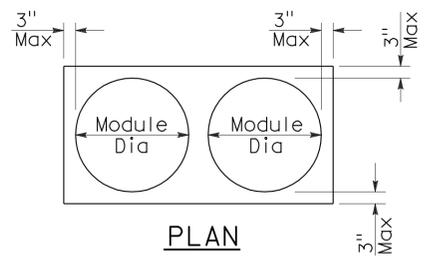
ARRAY 'TU11'

Approach speed less than 45 mph

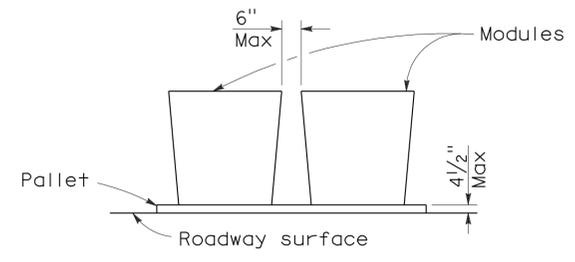


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

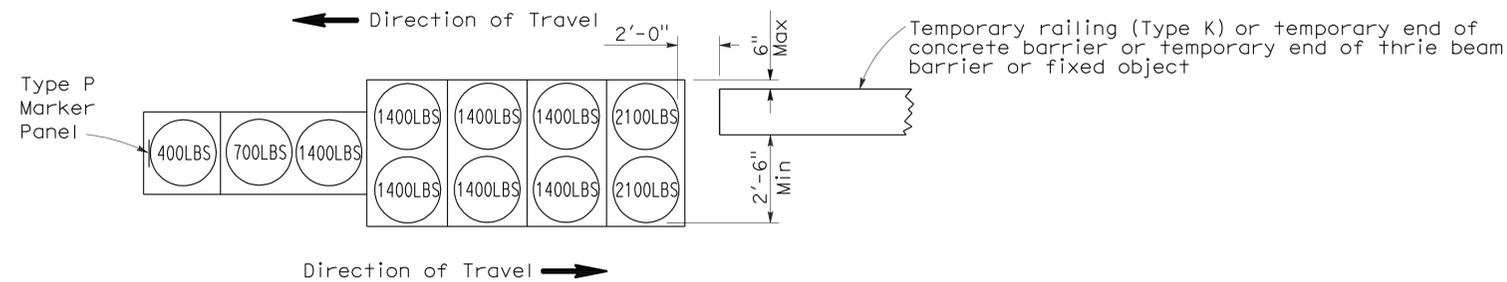
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv, SBd	10,15,40, 58,60, etc.	Var	9	13

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

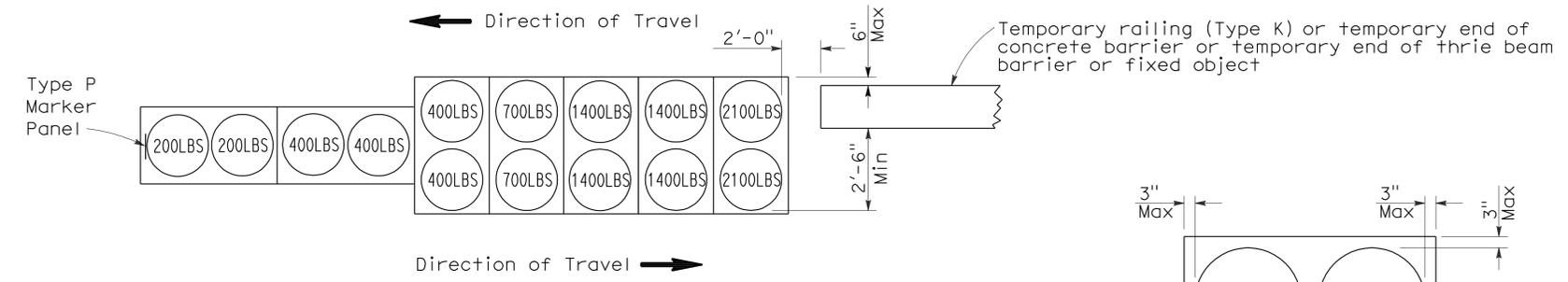
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To accompany plans dated 7-26-10



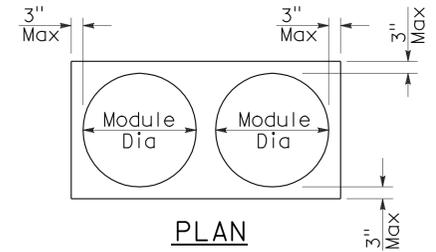
ARRAY 'TB11'

Approach speed less than 45 mph

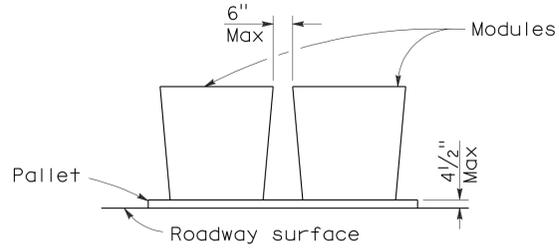


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv, SBd	10, 15, 40, 58, 60, etc.	Var	10	13

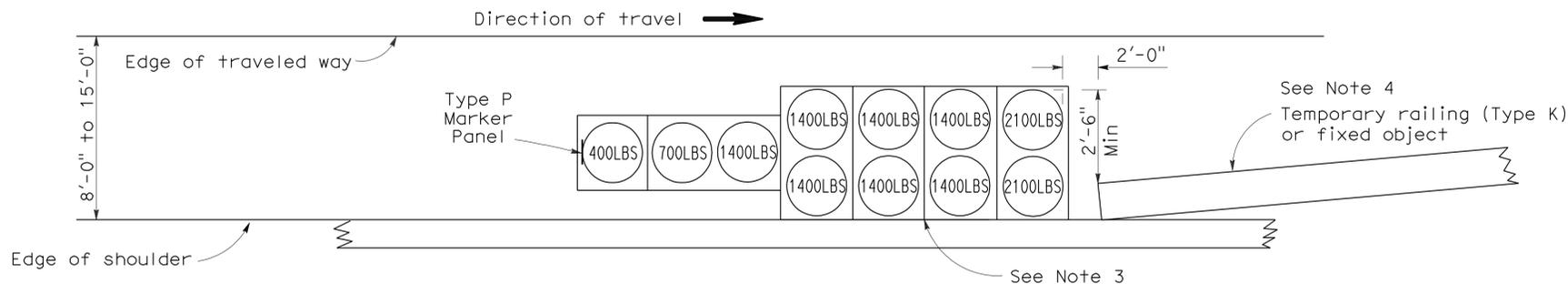
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

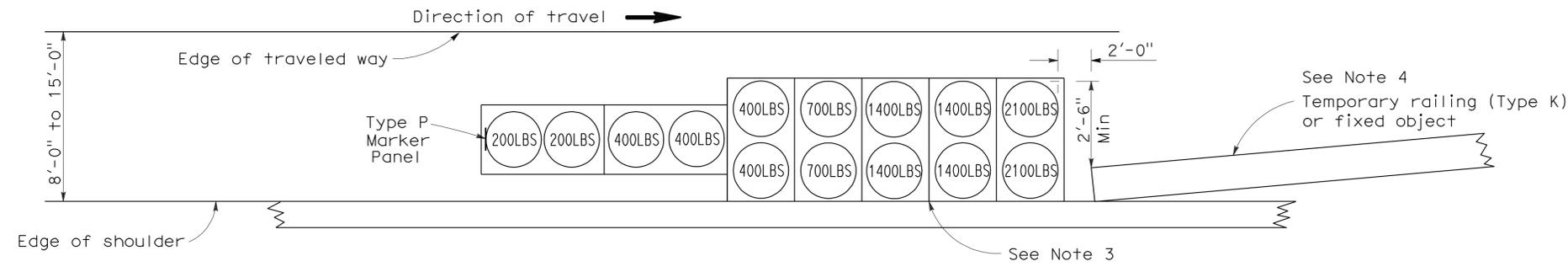
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

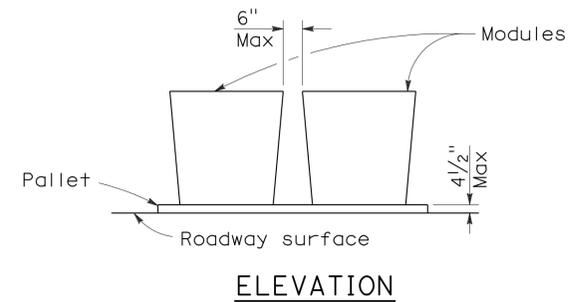
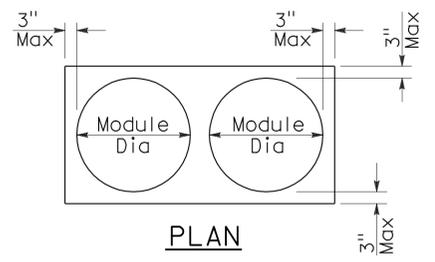
To accompany plans dated 7-26-10



ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.

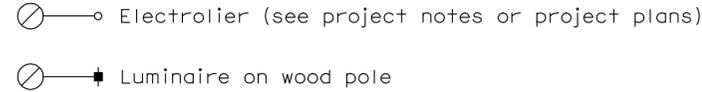
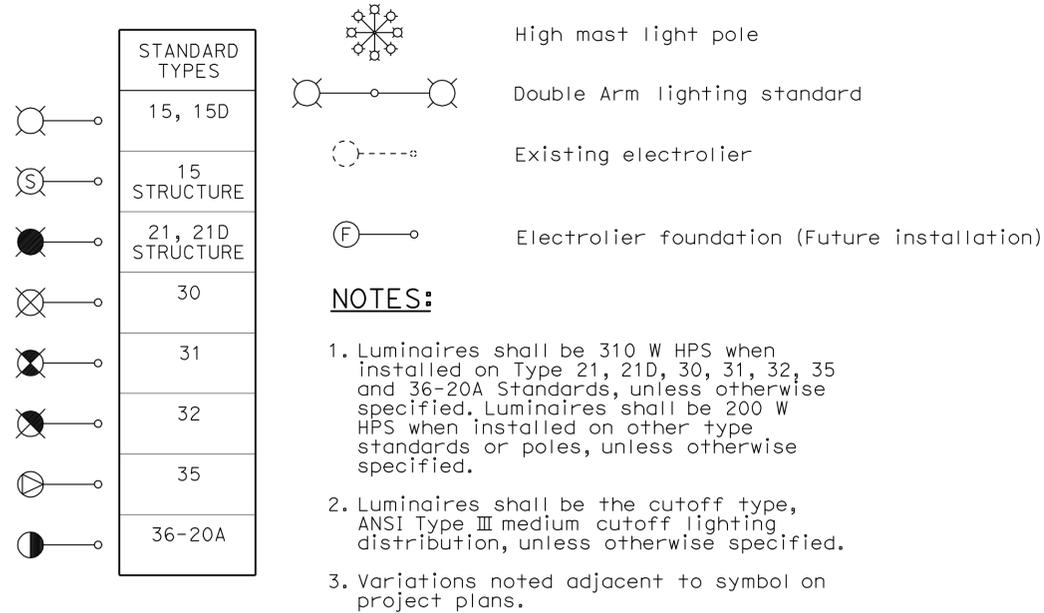
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

NO SCALE
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

ELECTROLIERS



STANDARD NOTES:

- 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 wire or rope.
- 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.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

PROPOSED	EXISTING	DESCRIPTION
BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4B	mas-4B	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4C	mas-4C	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
N	N	Mercury vapor lighting fixture
NC	NC	Neutral (Grounded Conductor)
NO	NO	Normally closed
PB	pb	Normally open
PEC	pec	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL	rl	Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv, SBd	10,15,40, 58,60, etc.	Var	11	13

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

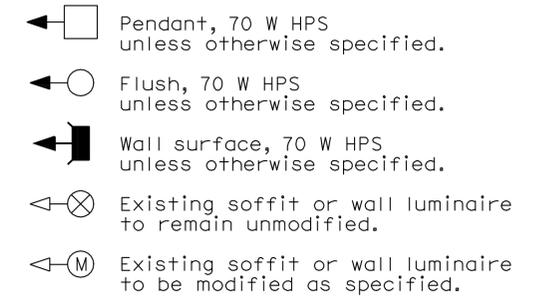
October 5, 2007
PLANS APPROVAL DATE

Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

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To accompany plans dated 7-26-10

SOFFIT AND WALL MOUNTED LUMINAIRES



NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv, SBd	10,15,40, 58,60, etc.	Var	12	13

REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

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

CONDUIT

PROPOSED	EXISTING	
		Lighting Conduit, unless otherwise indicated or noted
		Traffic signal conduit
		Communication conduit
		Telephone conduit
		Fire alarm conduit
		Fiber optic conduit
		Conduit termination
		Conduit riser in/on structure or service pole

SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" indicates all non-arrow sections louvered "LG" indicates louvered green section only "PV" indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

SERVICE EQUIPMENT

PROPOSED	EXISTING	
		Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.
- Signal indication shall be LED.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SYMBOLS AND ABBREVIATIONS)**
 NO SCALE

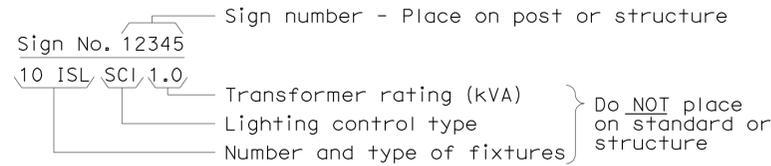
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

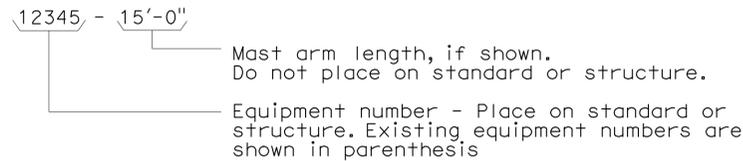
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

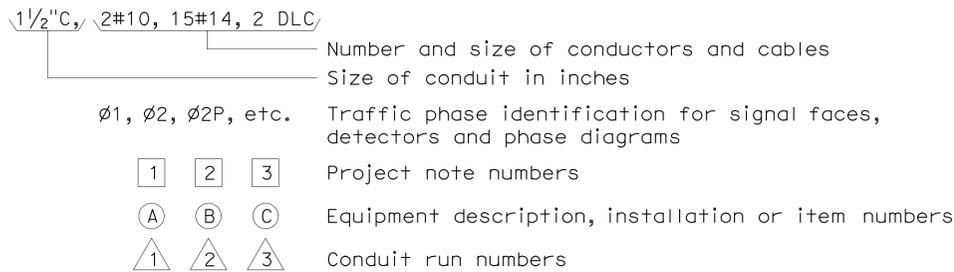
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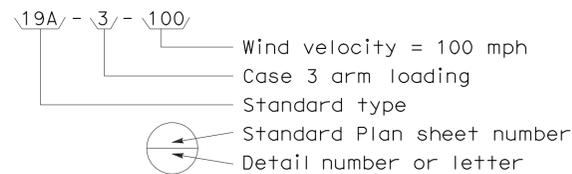
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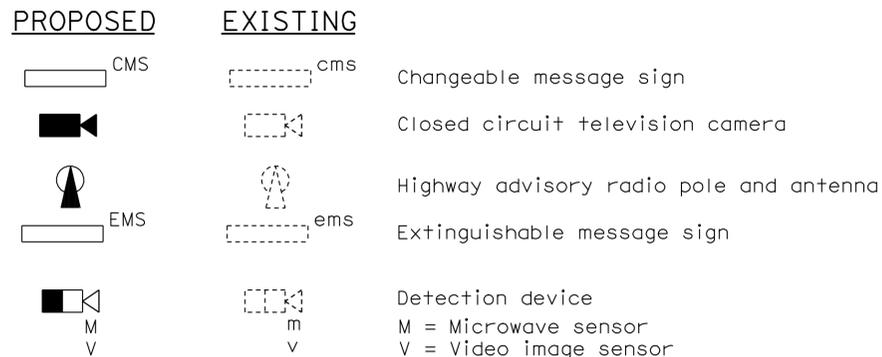
CONDUIT AND CONDUCTOR IDENTIFICATION:



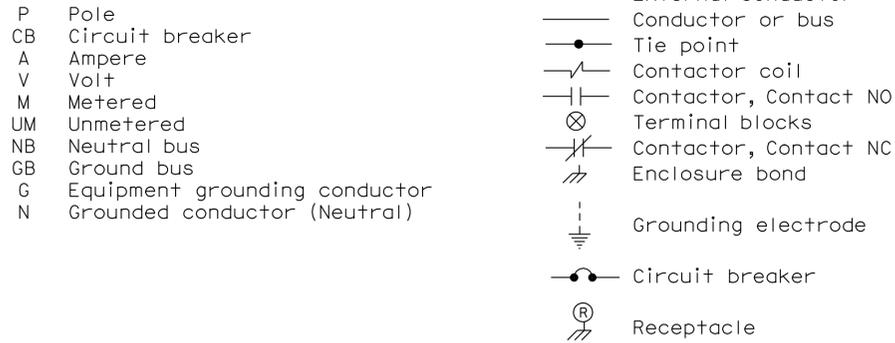
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



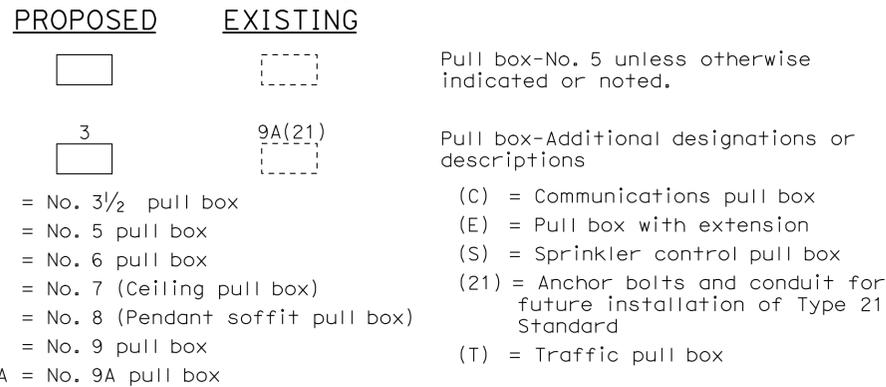
MISCELLANEOUS EQUIPMENT



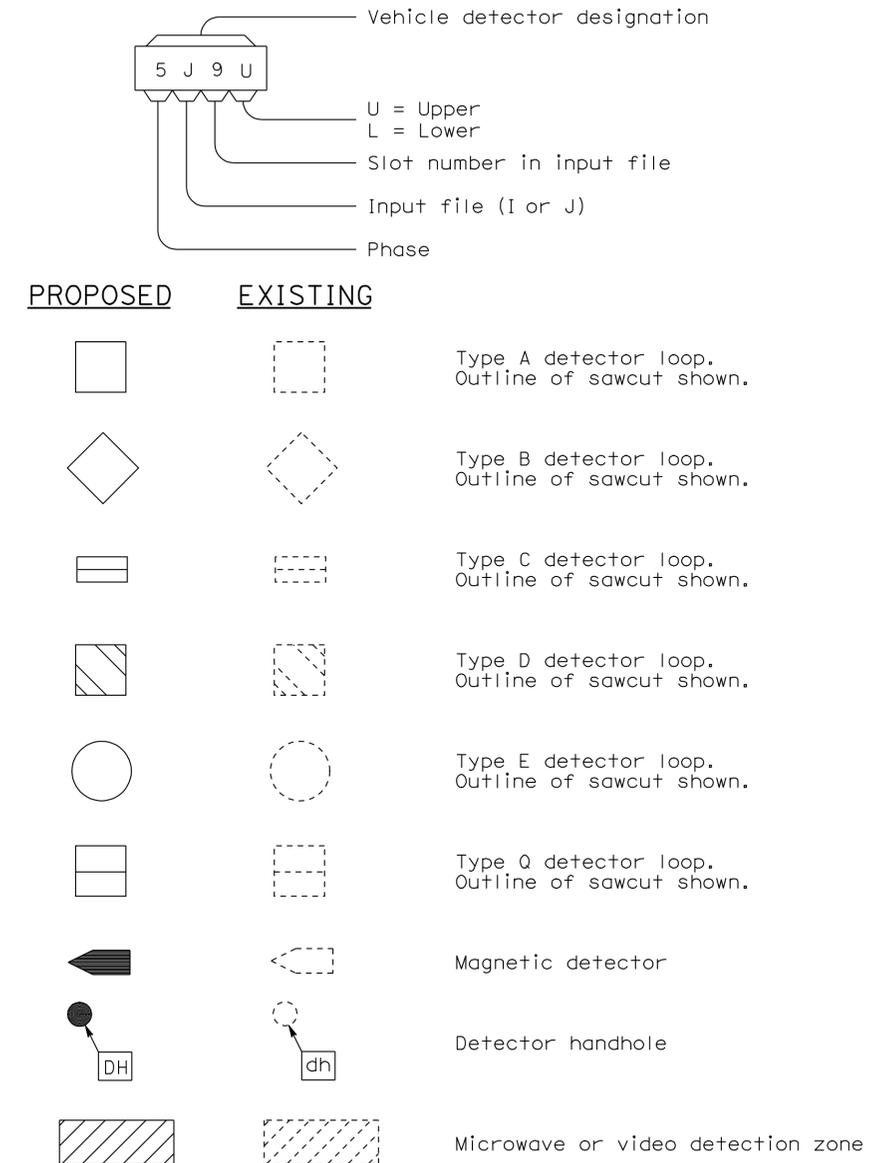
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
 DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C