

INDEX OF PLANS

| SHEET No. | DESCRIPTION |
|-----------|--------------------------------|
| 1 | TITLE AND LOCATION MAP |
| 2 | TYPICAL CROSS SECTIONS |
| 3 | CONSTRUCTION DETAILS |
| 4 | CONSTRUCTION AREA SIGNS |
| 5 | PAVEMENT DELINATION QUANTITIES |
| 6 | SUMMARY OF QUANTITIES |
| 7-9 | ELECTRICAL PLANS |
| 10-21 | NEW AND 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 COUNTY
IN HEMET
FROM 0.5 MILE EAST OF LEON ROAD
TO CALVERT AVENUE
AND FROM FOUR SEASON BOULEVARD
TO 0.4 MILE WEST OF WARREN ROAD

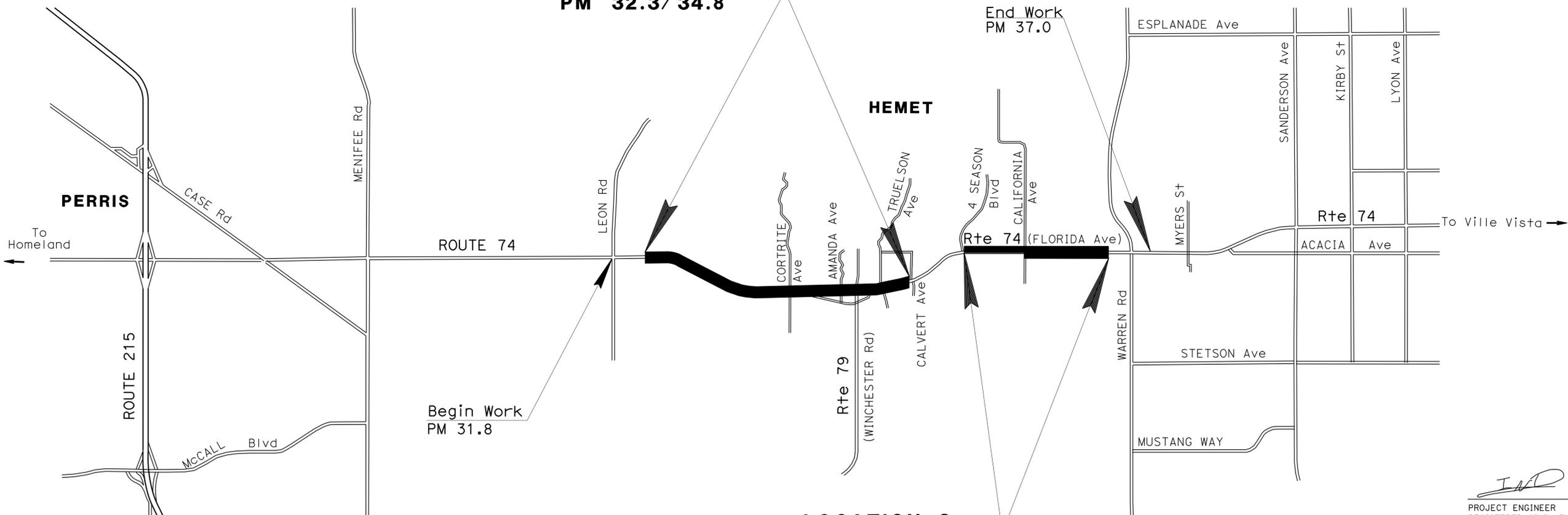
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2010



LOCATION 1
PM 32.3/ 34.8

End Work
 PM 37.0

HEMET



Begin Work
 PM 31.8

LOCATION 2
PM 35.4/ 36.5

NO SCALE

IAD 02-26-15
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER

MARCH 02, 2015
 PLANS APPROVAL DATE

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

| | |
|-----------------|-------------|
| PROJECT MANAGER | MIKE RISTIC |
| DESIGN ENGINEER | IYAD NAMY |

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

DATE PLOTTED => 26-FEB-2015 TIME PLOTTED => 11:46

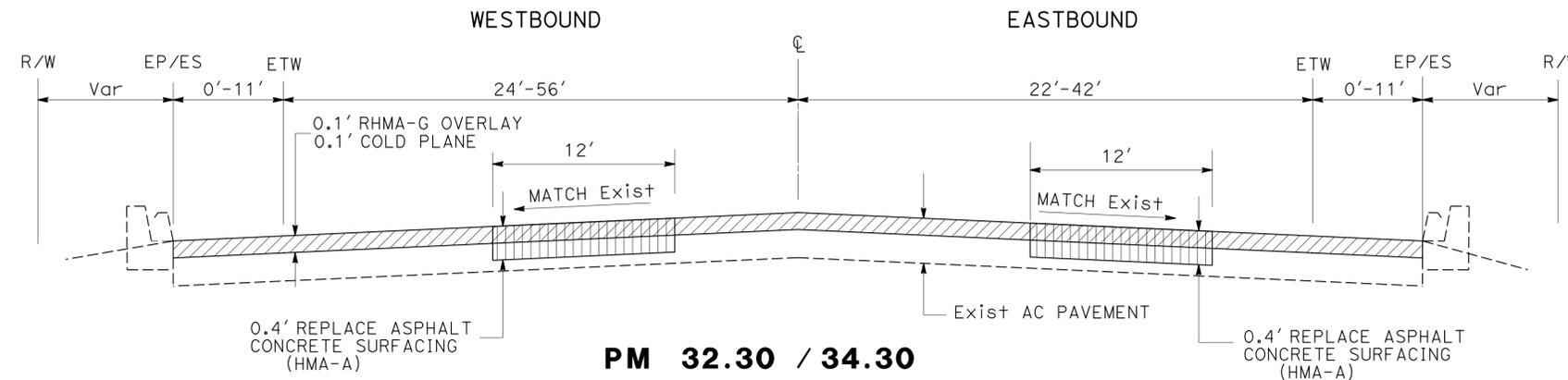
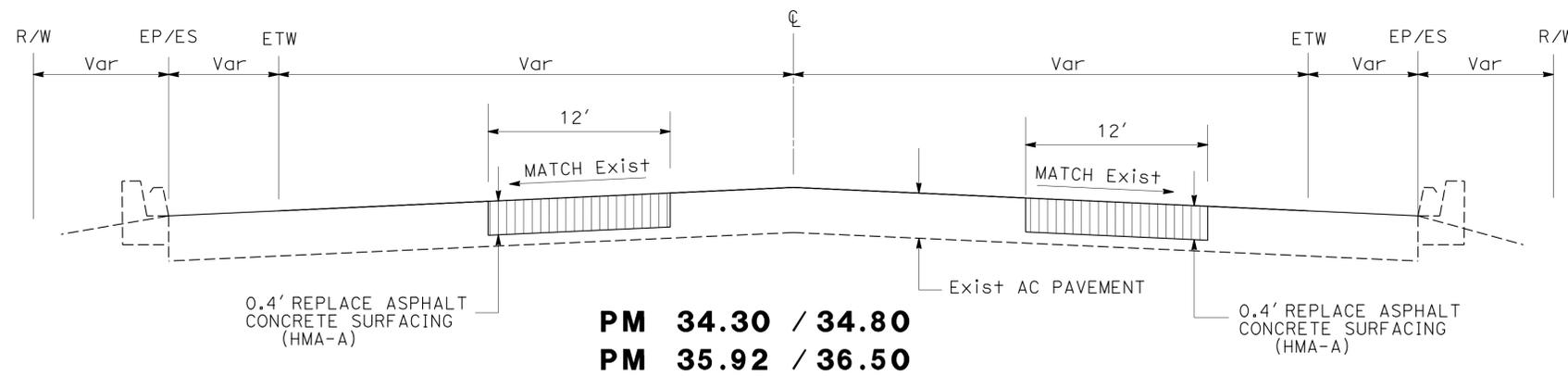
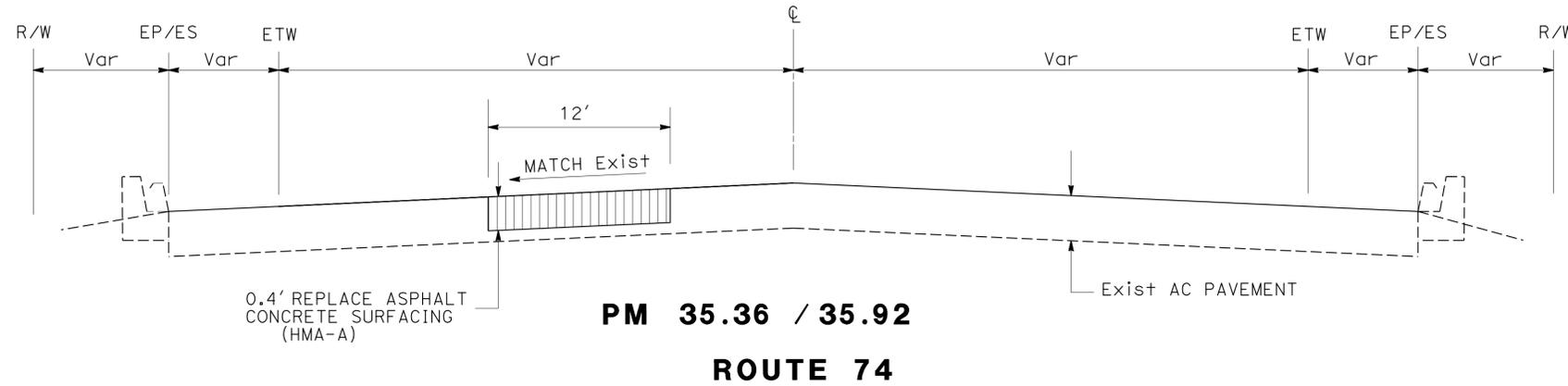
| | | | | | |
|--|--------|---------------|--|--------------------------------|--------------|
| Dist | COUNTY | LOCATION CODE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 08 | Riv | 74 | 32.3/34.8, 35.4/36.5 | 2 | 21 |
| | | | 02-26-15 | REGISTERED CIVIL ENGINEER DATE | |
| | | | 03-02-15 | PLANS APPROVAL DATE | |
| | | | REGISTERED PROFESSIONAL ENGINEER IYAD NAMY No. C74762 Exp. 12/31/15 CIVIL STATE OF CALIFORNIA | | |
| <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small> | | | | | |

NOTES:

- DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- FOR REPLACE ASPHALT CONCRETE SURFACING LOCATIONS AND QUANTITIES SEE SHEET Q-1. EXACT LOCATIONS OF REPLACING ASPHALT CONCRETE SURFACE TO BE DETERMINED BY THE ENGINEER.
- PROTECT ALL EXISITING MANHOLE, WATER VALVE COVER, DRAINAGE INLETS AND CONCRETE SLABS IN PLACE.
- EXISTING SLOPES (SUCH AS: HIGHWAY SURFACES, CROSS GUTTERS...) SHALL BE MAINTAINED.
- ALL WORK WITHIN STATE RIGHT OF WAY, FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

LEGEND:

-  0.1' RUBBERIZED HOT MIX ASPHALT OVERLAY (TYPE G)
0.1' COLD PLANE ASPHALT CONCRETE PAVEMENT
-  0.4' REPLACE ASPHALT CONCRETE SURFACING (HMA-A)

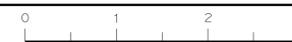


TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: KUANG CHEN
 CALCULATED/DESIGNED BY: IYAD NAMY, HENRY LEE
 CHECKED BY: IYAD NAMY, HENRY LEE
 REVISOR BY: IYAD NAMY, HENRY LEE
 DATE REVISED: IYAD NAMY, HENRY LEE



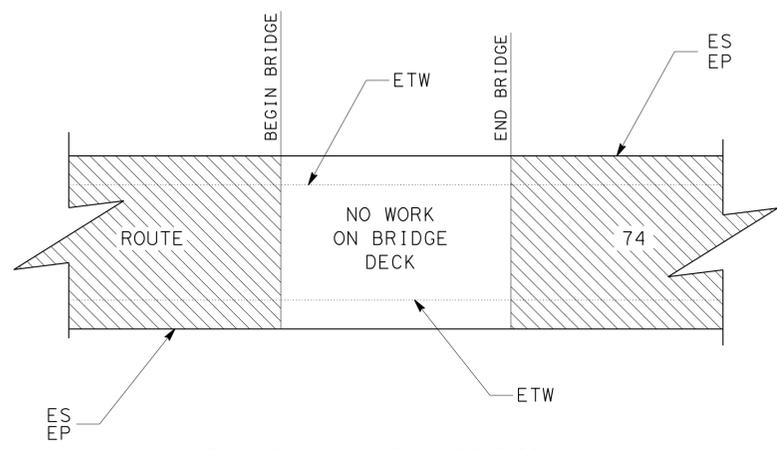
| | | | | | |
|--|--------|---------------|--------------------------|-----------|--------------|
| Dist | COUNTY | LOCATION CODE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 08 | Riv | 74 | 32.3/34.8 35.4/36.5 | 3 | 21 |
| | | | 02-26-15 | DATE | |
| REGISTERED CIVIL ENGINEER | | | IYAD NAMY | | |
| PLANS APPROVAL DATE | | | 03-02-15 | | |
| | | | No. C74762 | | |
| | | | Exp 12/31/15 | | |
| | | | CIVIL | | |
| <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> | | | | | |

NOTES:

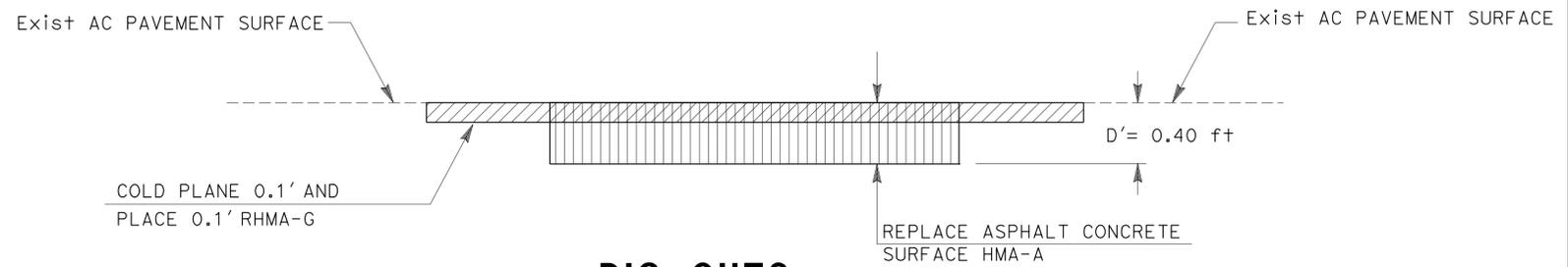
- EXACT LIMITS OF WORK SHALL BE DETERMINED BY THE ENGINEER.
- FOR REPLACE ASPHALT CONCRETE SURFACING LOCATIONS AND QUANTITIES SEE SHEET Q-1. EXACT LOCATIONS OF REPLACING ASPHALT CONCRETE SURFACE TO BE DETERMINED BY THE ENGINEER.
- PROTECT IN PLACE EXISTING SURVEY MONUMENTS, EXACT LOCATION OF EXISTING SURVEY MONUMENTS (SEE SHEET Q-1) SHALL BE DETERMINED BY THE ENGINEER. ANY MONUMENTS THAT WILL BE DISTURBED, OBLITERATED, OR DESTROYED BY THE THE SCOPE OF THE PROJECT MUST BE REFERENCED BY THE OFFICE OF LAND SURVEYS PRIOR TO THEIR DISTURBANCE. THEY MUST THEN BE RESET IN WELLS AND BROUGHT TO THE SURFACE BY THE CONTRACTOR USING STANDARD PLAN A-74, TYPE D. THE OFFICE OF LAND SURVEYS WILL PROVIDE STANDARD BRASS DISKS AND LOCATION REFERENCE POINTS. ALL OTHER WORK, MATERIALS AND TRAFFIC CONTROLS MUST BE PROVIDED BY THE CONTRACTOR.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

LEGEND:

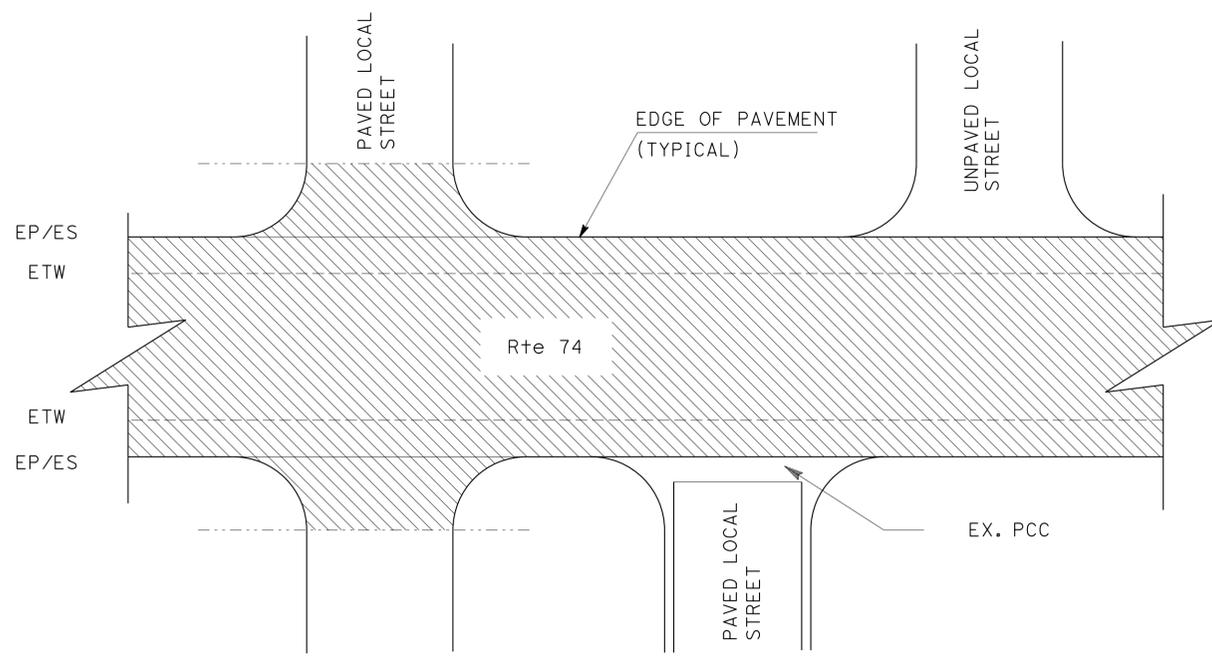
-  LIMITS OF WORK
-  0.1' RUBBERIZED HOT MIX ASPHALT OVERLAY (TYPE G)
0.1' COLD PLANE ASPHALT CONCRETE PAVEMENT
-  0.4' REPLACE ASPHALT CONCRETE SURFACING (HMA-A)



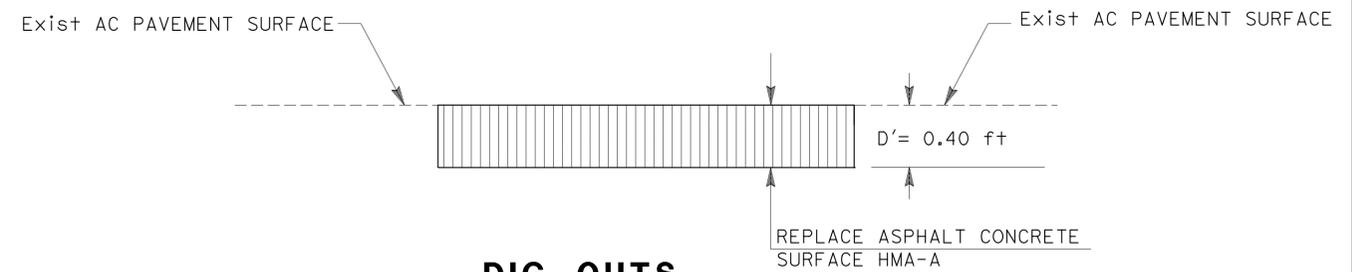
**LIMITS OF WORK
STRUCTURE DECK**



**DIG OUTS
PM 32.30/ 34.30**



**LIMITS OF WORK AT TYPICAL
LOCAL STREET INTERSECTIONS**



**DIG OUTS
PM 34.30/ 34.80
PM 35.36/ 36.50**

CONSTRUCTION DETAILS

NO SCALE **C-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: KUANG CHEN
 CALCULATED/DESIGNED BY: IYAD NAMY
 CHECKED BY: HENRY LEE
 REVISED BY: DATE REVISED:

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 08 | Riv | 74 | 32.3/34.8, 35.4/36.5 | 4 | 21 |

02-26-15
 REGISTERED CIVIL ENGINEER DATE
 03-02-15
 PLANS APPROVAL DATE

TRAN HOANG
 No. C54996
 Exp 9-30-16
 CIVIL

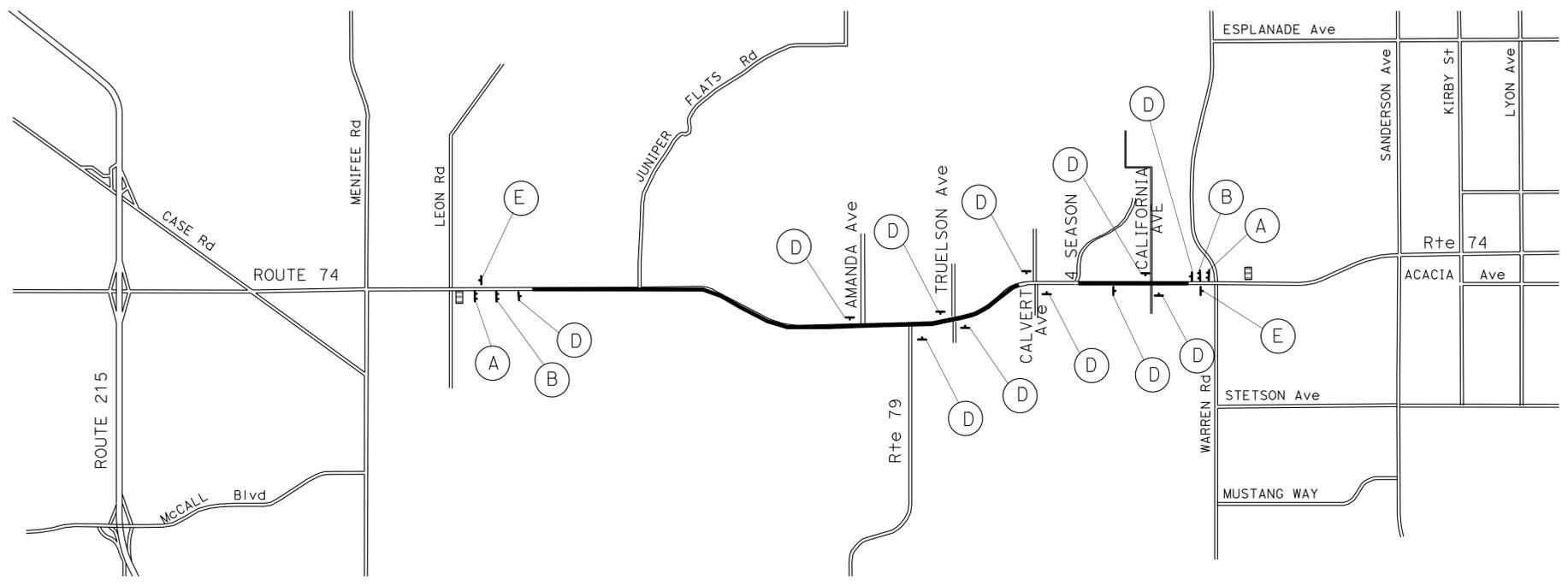
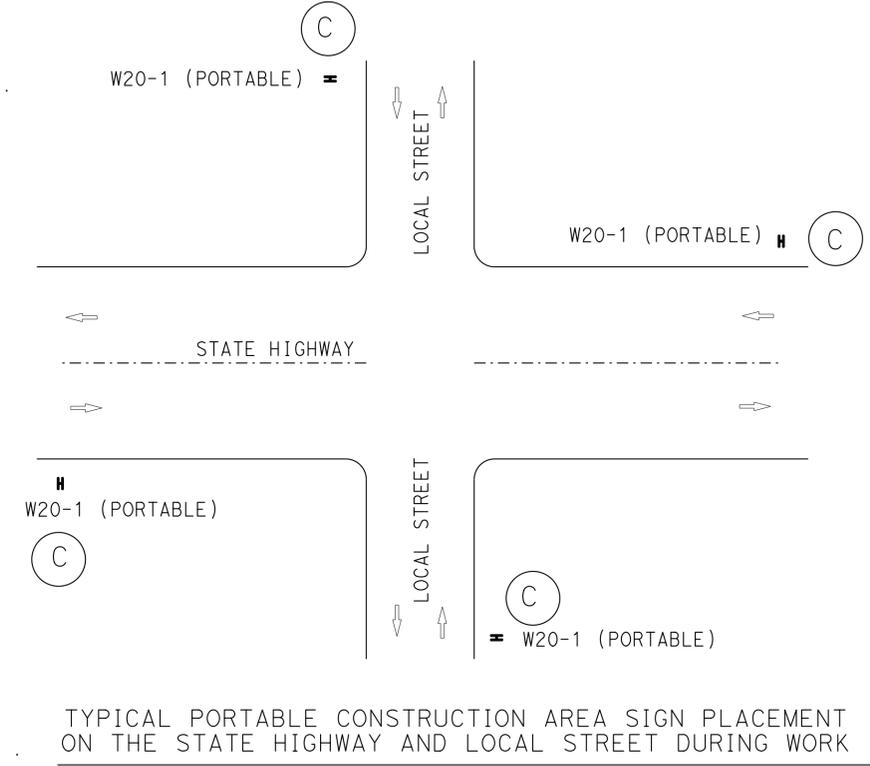
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

- ↑ ONE POST SIGN
- ↑↑ TWO POST SIGN
- ▬ ROAD WORK AREA
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- H PORTABLE CONSTRUCTION AREA SIGN

NOTES:

1. CONSTRUCTION AREA SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. REFER TO STANDARD PLANS T11, T12 AND T13 FOR TRAFFIC CONTROL REQUIREMENTS.
3. PORTABLE CONSTRUCTION AREA SIGNS SHALL BE REQUIRED AT EACH LOCATION WHERE THE CONTRACTOR IS WORKING. NUMBER OF PORTABLE CONSTRUCTION AREA SIGNS DEPENDS ON THE NUMBER OF LOCATIONS CONTRACTOR IS WORKING.
4. TYPICAL LOCAL INTERSECTIONS ARE INCLUDING :
CORTRITE AVE, OLD STATE HIGHWAY, AMANDA, TRUELSON, CALVERT, MELBA, WHITE, VINCENT, CONTRITE, GREEN, JCT 79, OLSON, GREG, AGNEW, RITTER AND CALIFORNIA.



PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

| |
|------|
| (EA) |
| 2 |

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

| SIGN No. (X) | SIGN CODE | | PANEL SIZE | SIGN MESSAGE | NUMBER OF POSTS AND SIZE | No. OF SIGNS |
|-----------------|-----------|------------|------------|---|--------------------------|---------------|
| | FEDERAL | CALIFORNIA | | | | |
| A | | C40(CA) | 144" x 60" | TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES | 2 - 6" x 8" | 2 |
| B | G20-1 | | 90" x 36" | ROAD WORK NEXT 4 MILES | 2 - 6" x 6" | 2 |
| C | W20-1 | | 48" x 48" | ROAD WORK AHEAD | PORTABLE | SEE NOTE 3, 4 |
| D | W20-1 | | 48" x 48" | ROAD WORK AHEAD | 1 - 6" x 6" | 11 |
| E | G20-2 | | 48" x 24" | END ROAD WORK | 2 - 4" x 4" | 2 |

CONSTRUCTION AREA SIGNS

NO SCALE **CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 TRAN HOANG
 HORMUZD SETHNA
 PATRICK J HALLY
 FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED

LAST REVISION DATE PLOTTED => 26-FEB-2015
 01-28-15 TIME PLOTTED => 11:46

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: KUANG CHEN
 CALCULATED/DESIGNED BY: IYAD NAMY
 CHECKED BY: HENRY LEE
 REVISOR: IYAD NAMY
 DATE: 02-26-15

| | | | | | |
|------|--------|---------------|--------------------------|-----------|--------------|
| Dist | COUNTY | LOCATION CODE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 08 | Riv | 74 | 32.3/34.8, 35.4/36.5 | 6 | 21 |

REGISTERED CIVIL ENGINEER: IYAD NAMY
 No. C74762
 Exp. 12/31/15
 CIVIL
 DATE: 02-26-15
 PLANS APPROVAL DATE: 03-02-15

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.

SURVEY MONUMENTS (PROTECT IN PLACE)

| SURVEY MONUMENT DESCRIPTION | POST MILE | QUANTITY (N) |
|--|-----------|--------------|
| STD DISK, FLUSH, STAMPED "RAMOLA-GUTHERIDGE LANE PI REPL SPIKE" | 33.75 | 1 |
| STD DISK, IN WELL, STAMPED "CL IMP 384+94.30 BC", AT HWY 74 BC | 32.55 | 1 |
| 3/4" I.P., 12" DEEP IN WELL, AT CL CREAG AVE (SOUTH), ± 30' s'ly of CL Hwy 74 | 32.55 | 1 |
| STD DISK, IN WELL, STAMPED "CL IMP 391+24.75 PCC", NEAR OLSON AVE | 32.60 | 1 |
| 3/4" I.P., IN WELL, AT CL HWY 74, NEAR MELBA AVE (SOUTH) | 32.70 | 1 |
| STD DISK, IN WELL, STAMPED "14' RT CL IMP 397+27.72 EC", CALIF. AVE | 32.70 | 1 |
| 1" I.P., DOWN 6", TAG "LS 4230", AT CL HWY 74 AND PARASOL DRIVE | 32.75 | 1 |
| SPIKE & TIN, FLUSH, AT HWY 74 BC | 34.80 | 1 |
| SPIKE & TIN, FLUSH, AT HWY 74 P.I | 34.80 | 1 |
| SPIKE & TIN, FLUSH, AT HWY 74 EC | 34.80 | 1 |
| 2" I.P., FLUSH, TAG ELLEGIBLE, S 1/4 SEC 11, S'ly OF HWY 74 CL | 35.40 | 1 |
| 1" I.P., flush, tag "LS 4230", S/4 Sec 11, | | |
| 1" I.P., DOWN 0.2', TAG "LS 3365", AT JOG IN N'ly R/W OF HWY 74 | 35.50 | 1 |
| 1" I.P., DOWN 0.2', TAG "LS 3365", 30' N'ly & 30' W'ly OF HWY 74 & CALIF AVE | 35.90 | 1 |
| 2" I.P., DOWN 0.1', TAG "RCE 26406", 38' N'ly & 30' W'ly OF HWY 74 & CALIF AVE | 35.90 | 1 |
| STD DISK, IN WELL, STAMPED "REPL IRON ROD W.C. 1967", CALIF. AVE | 35.90 | 1 |
| 1 1/4" I.P., DOWN 0.3', WITH PLASTIC PLUG "RCE 862", S11 S12, CALIFORNIA AVE S14 S13 | 35.90 | 1 |
| 1 1/4" I.P., DOWN 0.5', TAG "RCE 12116", AT HWY 74 & CORDOBA DRIVE | 36.10 | 1 |
| 2" I.P., FLUSH, TAG "RCE 26406", AT RANCHERIAS RD CL, 30' N'ly HWY 74 CL | 36.15 | 1 |
| 2" I.P., FLUSH, TAG "RCE 26406", 12.5' E'ly OF RANCHERIAS RD CL | 36.15 | 1 |
| 1" I.P., DOWN 0.5', TAG "RCE 12116", AT HYATT AVE CL, 30' N'ly HWY 74 CL | 36.40 | 1 |
| CSM, FLUSH, STAMPED "13 T55 R2W CO. SURV", N 1/4 SEC 13, AT HWY 74 & HYATT AVE | 36.40 | 1 |
| 1" I.P., FLUSH, TAG "MWD LS 6599", S'ly OF HWY 74, W'ly LINE SAN DIEGO CANAL | 36.50 | 1 |
| 1" I.P., FLUSH, TAG "MWD LS 6599", N'ly OF HWY 74, W'ly LINE SAN DIEGO CANAL | 36.50 | 1 |
| 1" I.P., FLUSH, TAG "MWD LS 6599", N'ly OF HWY 74, E'ly LINE SAN DIEGO CANAL | 36.50 | 1 |
| 1" I.P., FLUSH, TAG "MWD LS 6599", S'ly OF HWY 74, E'ly LINE SAN DIEGO CANAL | 36.50 | 1 |
| TOTAL | | 25 |

N- NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

PAVEMENT QUANTITIES

| PM | COLD PLANE | RUBBERIZED HOT MIX ASPHALT (TYPE G) | TACK COAT |
|---------------|------------|-------------------------------------|-----------|
| | (SQYD) | (TON) | (TON) |
| 32.30 / 34.30 | 86,200 | 5,900 | 25 |
| TOTAL | 86,200 | 5,900 | 25 |

REPLACE ASPHALT CONCRETE SURFACING (DIGOUTS) QUANTITIES

| LOCATION # | POST MILE | DIRECTION | LANE # | DIMENSIONS (LF) | | | VOLUME |
|------------|-----------|-----------|--------|-----------------|----|-----|---------|
| | | | | L | W | D | CY |
| 1 | 33.45 | EB | 2 | 415 | 12 | 0.4 | 73.78 |
| 2 | 33.70 | EB | 2 | 270 | 12 | 0.4 | 48.00 |
| 3 | 34.16 | EB | 1 | 160 | 12 | 0.4 | 28.44 |
| 4 | 34.37 | EB | 2 | 690 | 12 | 0.4 | 122.67 |
| 5 | 34.45 | EB | 1 | 640 | 12 | 0.4 | 113.78 |
| 6 | 35.92 | EB | 2 | 1160 | 12 | 0.4 | 206.22 |
| 7 | 36.14 | EB | 1 | 500 | 12 | 0.4 | 88.89 |
| 8 | 32.72 | WB | 1 | 150 | 12 | 0.4 | 26.67 |
| 9 | 33.10 | WB | 2 | 2000 | 12 | 0.4 | 355.56 |
| 10 | 34.52 | WB | 2 | 1800 | 12 | 0.4 | 320.00 |
| 11 | 34.64 | WB | 2 | 210 | 12 | 0.4 | 37.33 |
| 12 | 34.71 | WB | 1 | 800 | 12 | 0.4 | 142.22 |
| 13 | 35.92 | WB | 2 | 1495 | 12 | 0.4 | 265.78 |
| TOTAL | | | | | | | 1830.00 |

NOTE: EXACT LOCATION AND DIMENSION TO BE DETERMINED BY THE ENGINEER

SUMMARY OF QUANTITIES

NO SCALE

Q-1

LAST REVISION | DATE PLOTTED => 26-FEB-2015 | 02-05-15 | TIME PLOTTED => 11:46

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR
 DAVID A GONZALEZ

CALCULATED-DESIGNED BY
 CHECKED BY

DILARA ZAMAN
 DAVID A GONZALEZ

REVISED BY
 DATE REVISED

NOTES: (SHEET E-1 AND E-2)

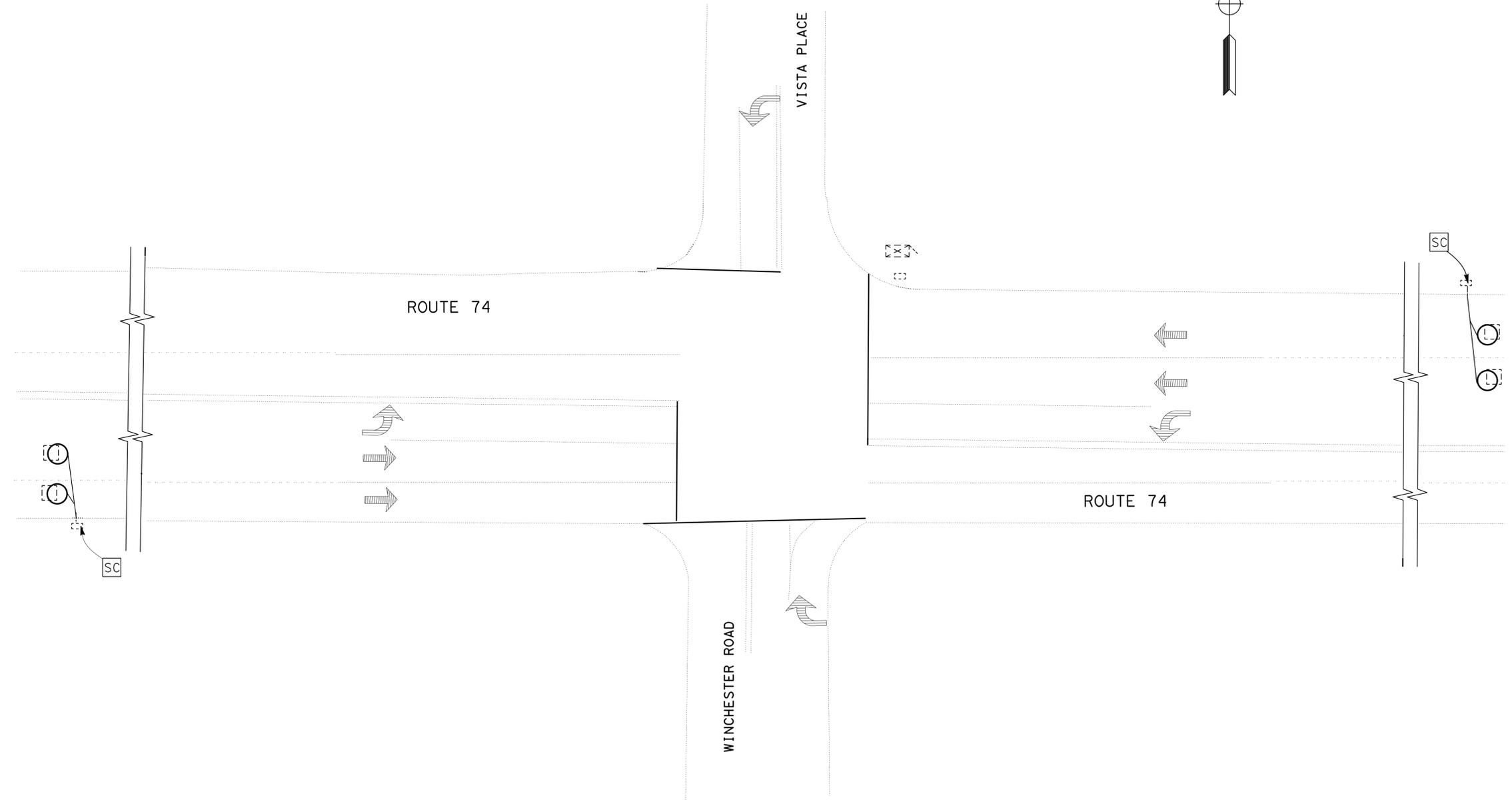
1. ALL DISTANCES ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST VERIFY ALL LOOP LOCATIONS.
2. NEW DETECTOR LOOPS MUST BE INSTALLED AT LOCATION OF EXISTING LOOPS.
3. NEW INDUCTIVE LOOP DETECTORS MUST BE SPLICED TO EXISTING DLC
4. EXISTING LOOPS THAT ARE TO BE REPLACED MUST BE **AB** .

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 08 | Riv | 74 | 32.3/34.8; 35.4/36.5 | 7 | 21 |

Dilara Zaman 02-26-15
 REGISTERED ELECTRICAL ENGINEER DATE

03-02-15
 PLANS APPROVAL DATE

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



APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL

NO SCALE **E-1**

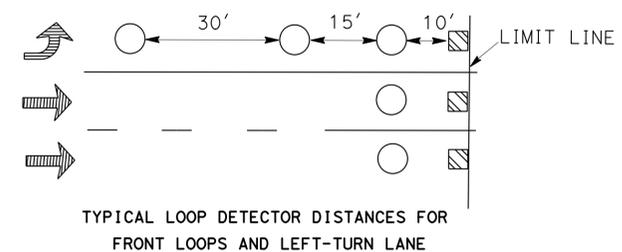
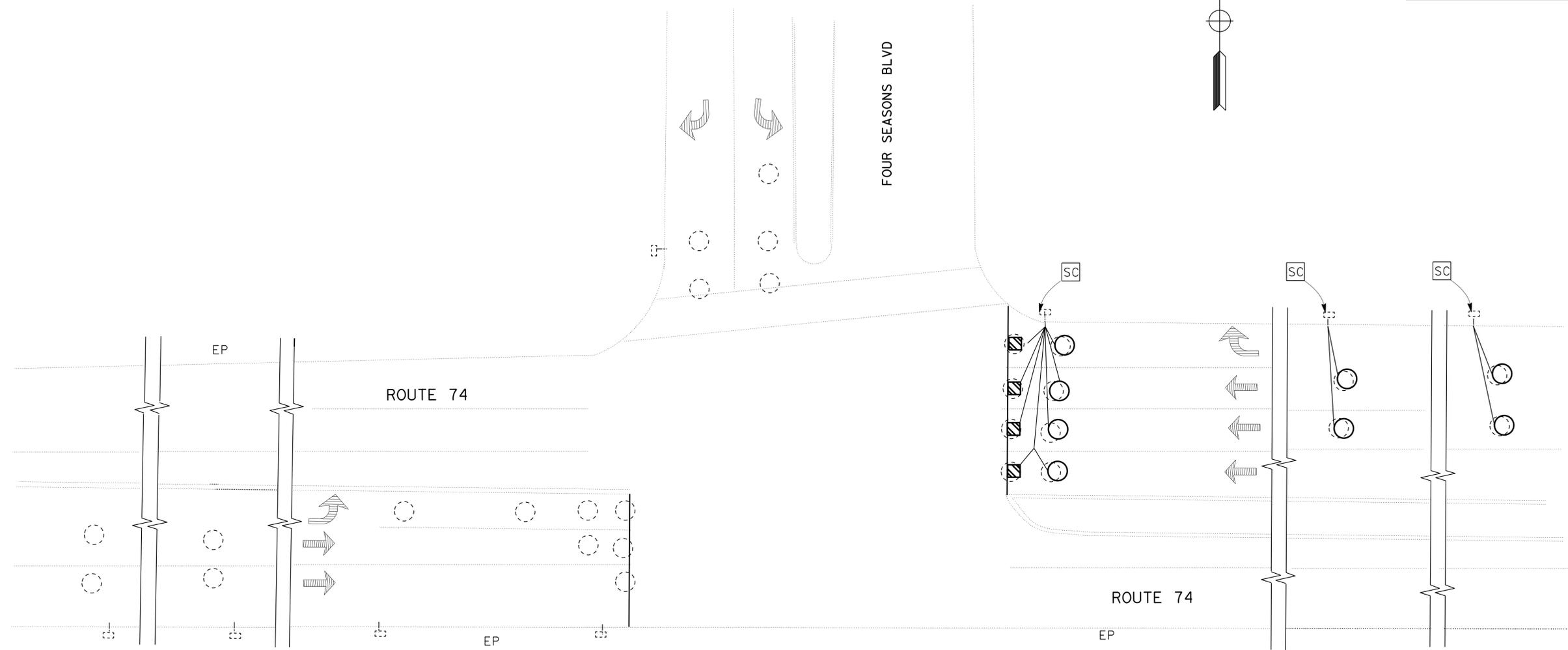
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|-----------------------------|--------------|-----------------|
| 08 | Riv | 74 | 32.3/34.8, 35.4/36.5 | 8 | 21 |

Dilara Zaman 02-26-15
REGISTERED ELECTRICAL ENGINEER DATE

03-02-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DILARA H. ZAMAN
No. E 18356
Exp. 6-30-16
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.



| | | | |
|--|-----------------------|------------------------|------------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | FUNCTIONAL SUPERVISOR | CALCULATED/DESIGNED BY | REVISOR |
| Caltrans ELECTRICAL DESIGN | DAVID A GONZALEZ | CHECKED BY | DILARA ZAMAN |
| | | | DAVID A GONZALEZ |
| | | | REVISOR |
| | | | DATE REVISED |

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL

NO SCALE **E-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR
 DAVID A GONZALEZ

CALCULATED/DESIGNED BY
 CHECKED BY

DILARA ZAMAN
 DAVID A GONZALEZ

REVISOR BY
 DATE REVISED

MODIFY SIGNAL

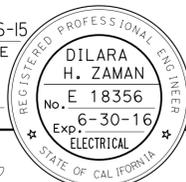
| SHEET No. | (N) TYPE E LOOPS | (N) TYPE D LOOPS |
|-----------|------------------------|------------------------|
| | EA | EA |
| E-1 | 4 | - |
| E-2 | 8 | 4 |

(N) = THE QUANTITIES SHOWN ON THIS TABLE ARE NOT A SEPARATE PAY ITEMS,
 FOR INFORMATION ONLY. FOR COMPLETE ELECTRICAL WORK, SEE ELECTRICAL PLAN SHEETS.

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|-----------------------------|--------------|-----------------|
| 08 | Riv | 74 | 32.3/34.8, 35.4/36.5 | 9 | 21 |

Dilarazaman 02-26-15
 REGISTERED ELECTRICAL ENGINEER DATE

03-02-15
 PLANS APPROVAL DATE



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

ELECTRICAL QUANTITY

NO SCALE

E-3

APPROVED FOR ELECTRICAL WORK ONLY

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 08 | Riv | 74 | 32.3/34.8, 35.4/36.5 | 10 | 21 |

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 03-02-15

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

| SYMBOL USED | DEFINITIONS |
|--------------------------|------------------------|
| ksi | KIPS PER SQUARE INCH |
| ksf | KIPS PER SQUARE FOOT |
| psi | POUNDS PER SQUARE INCH |
| psf | POUNDS PER SQUARE FOOT |
| lb/ft ³ , pcf | POUNDS PER CUBIC FOOT |
| tsf | TONS PER SQUARE FOOT |
| mph, MPH * | MILES PER HOUR |
| ø | NOMINAL DIAMETER |
| oz | OUNCE |
| lb | POUND |
| kíp | 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

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

| | |
|------------|--|
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| Max | MAXIMUM |
| MB | METAL BEAM |
| MBB | METAL BEAM BARRIER |
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| 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 |
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| Nos. | NUMBERS (MUST HAVE PERIOD) |
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| NS | NEAR SIDE |
| NSP | NEW STANDARD PLAN |
| NTS | NOT TO SCALE |
| Obir | OBLITERATE |
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| OD | OUTSIDE DIAMETER |
| OF | OUTSIDE FACE |
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| PCVC | POINT OF COMPOUND VERTICAL CURVE |
| PEC | PERMIT TO ENTER AND CONSTRUCT |
| Ped | PEDESTRIAN |
| Ped OC | PEDESTRIAN OVERCROSSING |
| Ped UC | PEDESTRIAN UNDERCROSSING |
| Perm MtI | PERMEABLE MATERIAL |

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

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

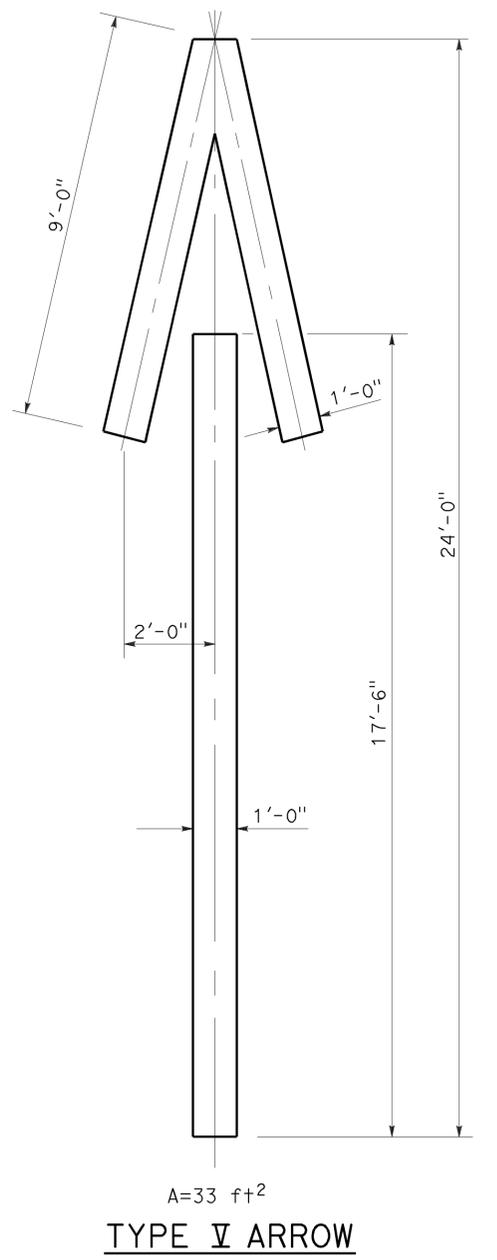
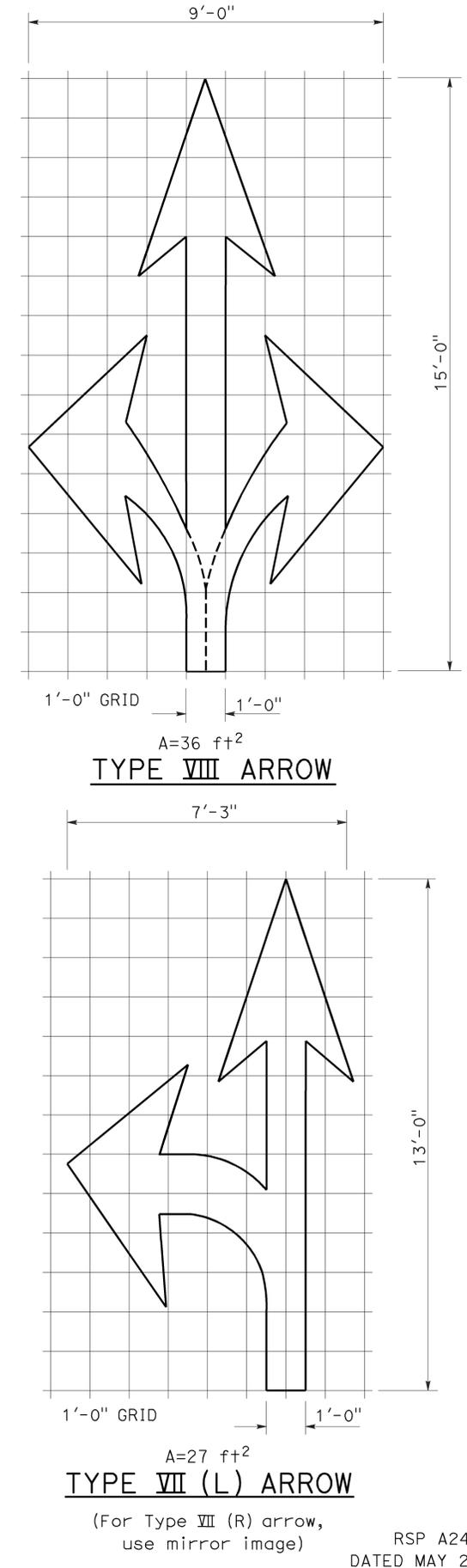
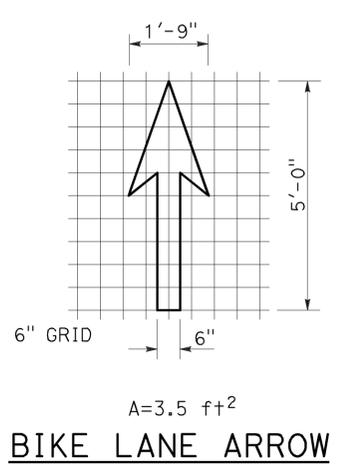
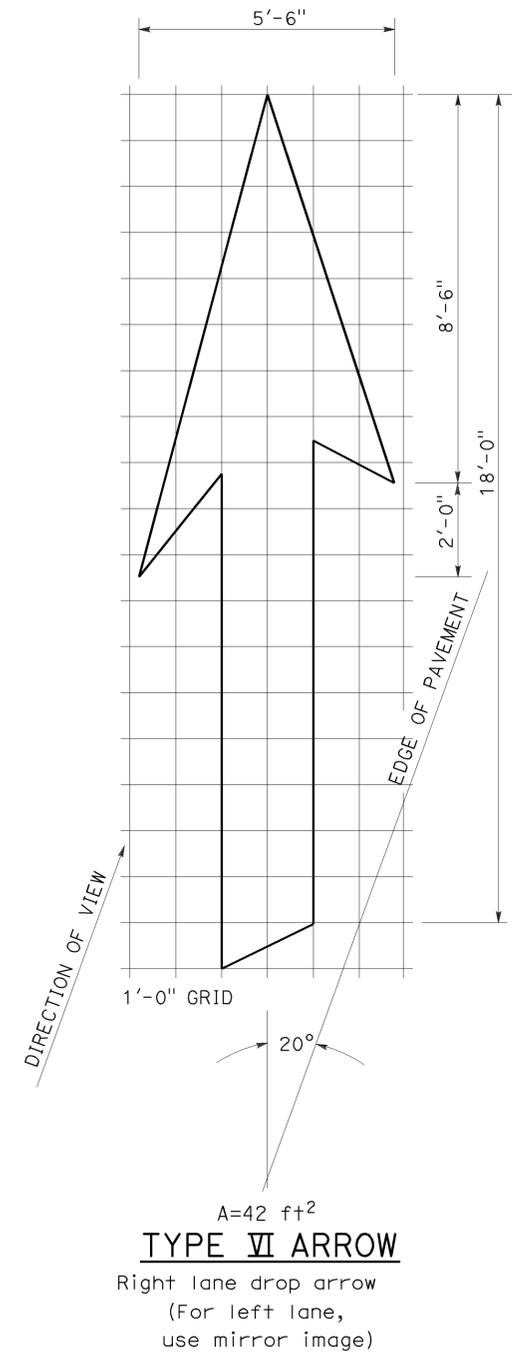
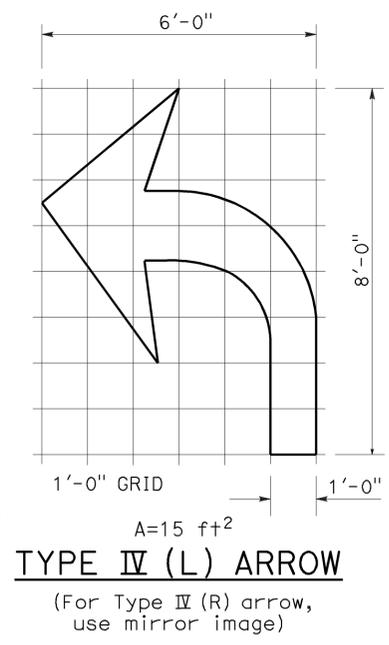
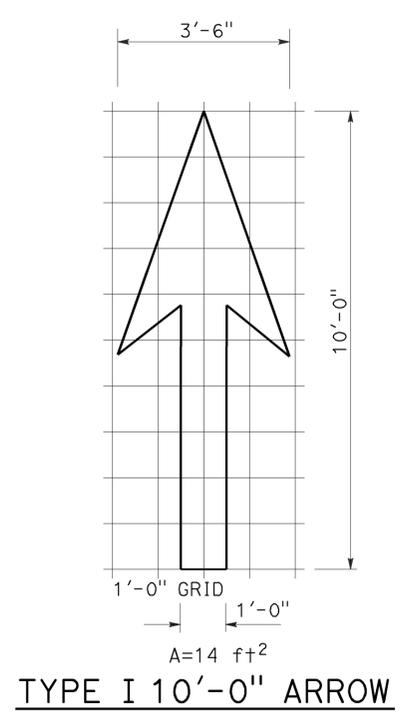
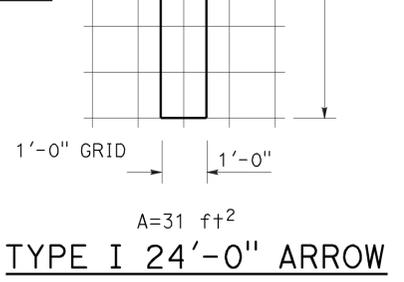
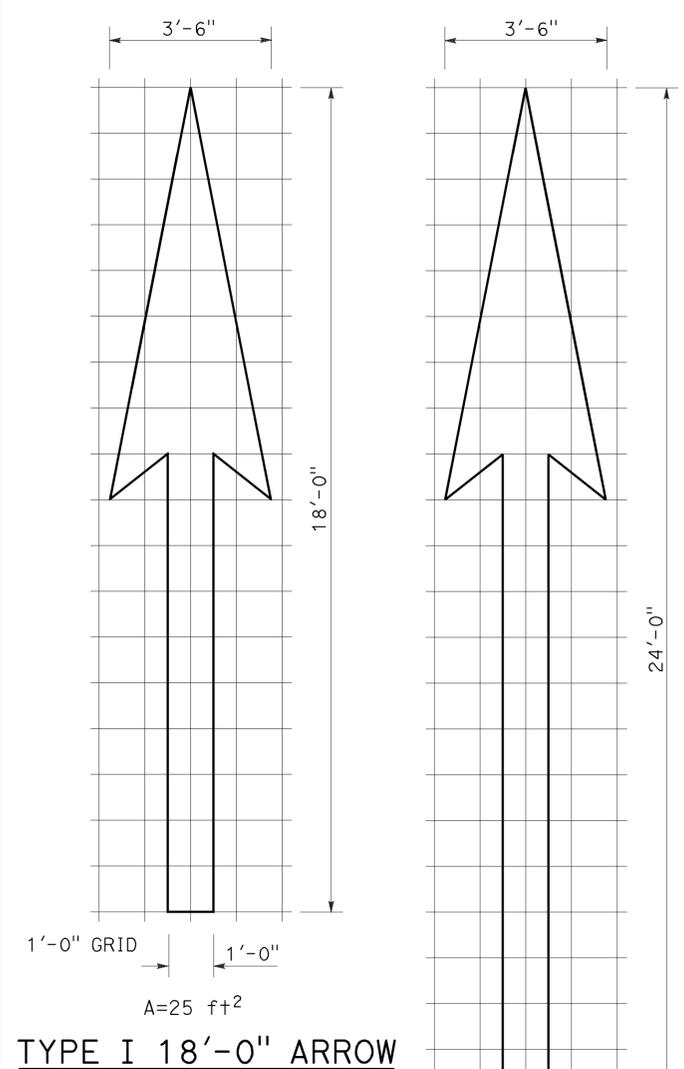
| | |
|-------|---|
| TS | TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL |
| Typ | TYPICAL |
| UC | UNDERCROSSING |
| UD | UNDERDRAIN |
| UG | UNDERGROUND |
| UON | UNLESS OTHERWISE NOTED |
| UP | UNDERPASS |
| V | VALVE, DESIGN SPEED |
| Var | VARIABLE, VARIES |
| VC | VERTICAL CURVE |
| VCP | VITRIFIED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

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 08 | Riv | 74 | 32.3/34.8, 35.4/36.5 | 11 | 21 |

Robert L. McLaughlin
 REGISTERED CIVIL ENGINEER
 April 20, 2012
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

TO ACCOMPANY PLANS DATED 03-02-15



NOTE:
Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

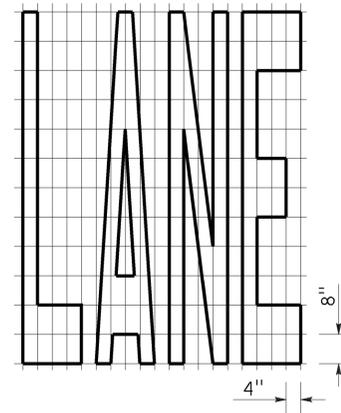
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

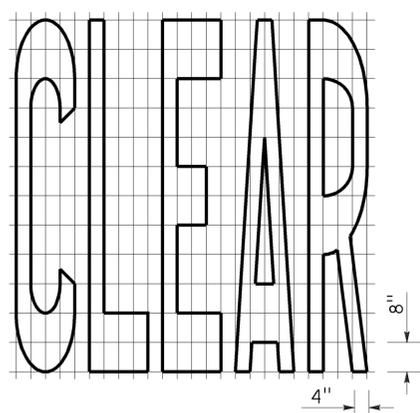
2010 REVISED STANDARD PLAN RSP A24A

TO ACCOMPANY PLANS DATED 03-02-15

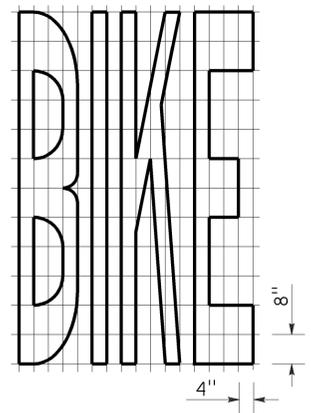
2010 REVISED STANDARD PLAN RSP A24E



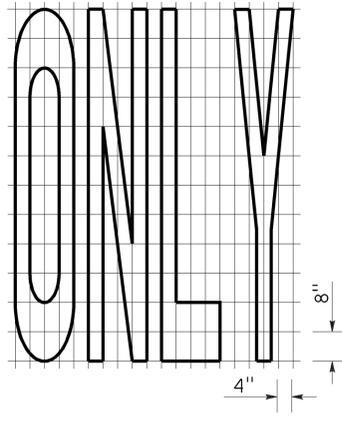
A=24 ft²



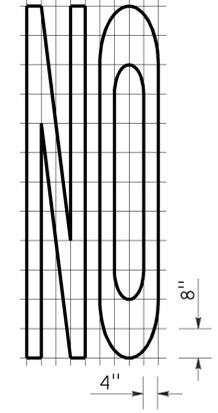
A=27 ft²



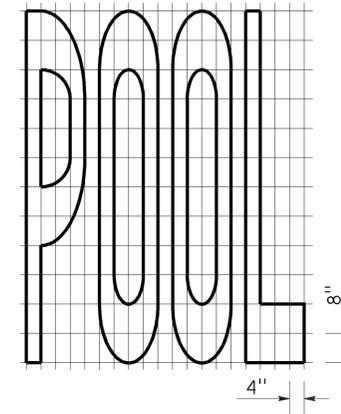
A=21 ft²



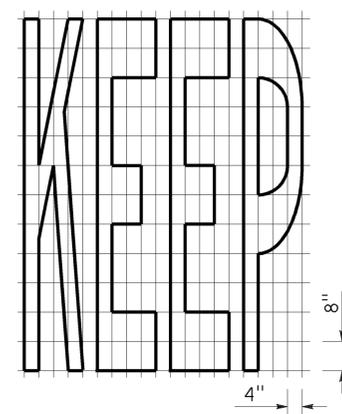
A=22 ft²



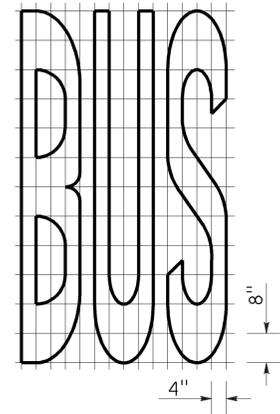
A=14 ft²



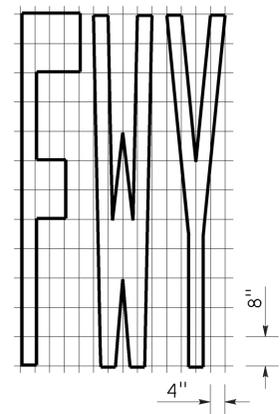
A=23 ft²



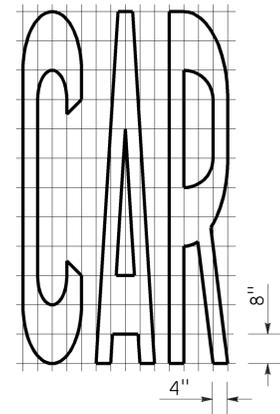
A=24 ft²



A=20 ft²

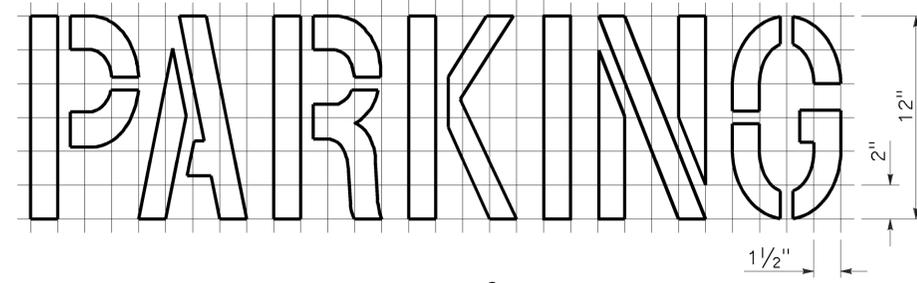
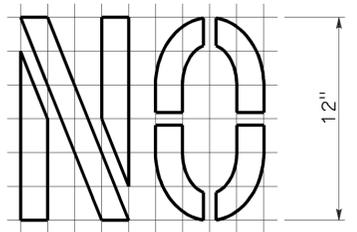


A=16 ft²

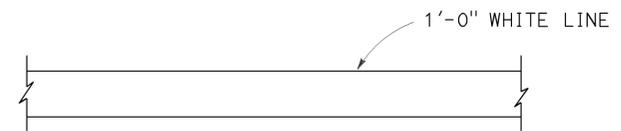


A=17 ft²

| WORD MARKINGS | | | |
|---------------|-----------------|------|-----------------|
| ITEM | ft ² | ITEM | ft ² |
| 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.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES**

NO SCALE

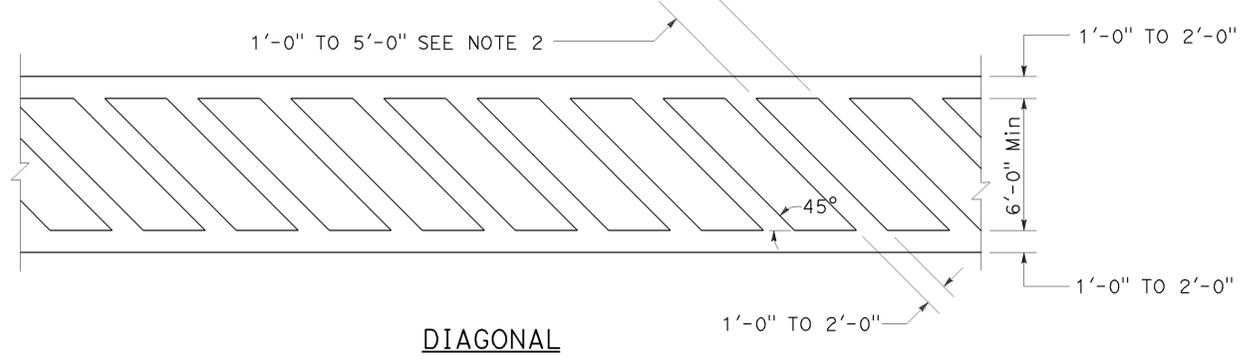
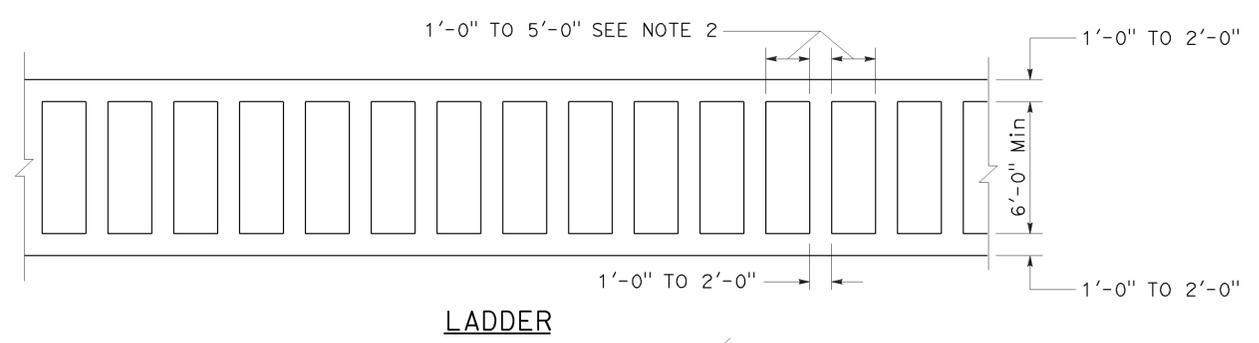
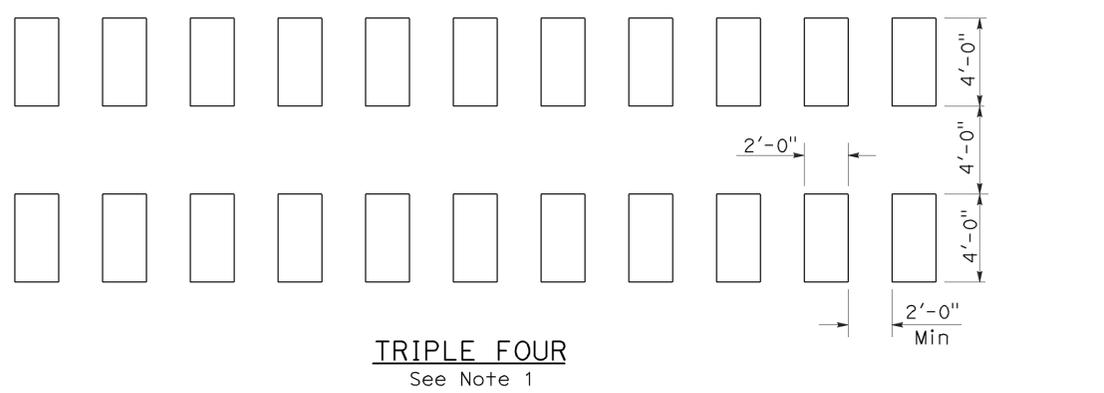
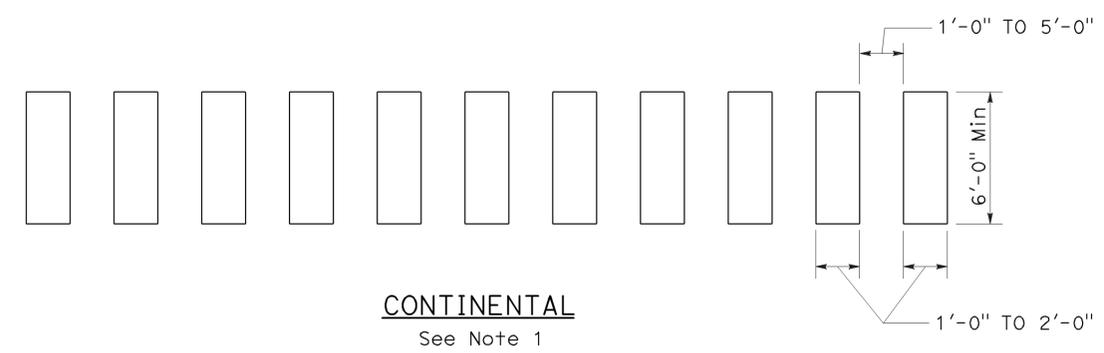
RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24E

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 08 | Riv | 74 | 32.3/34.8, 35.4/36.5 | 14 | 21 |

Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 July 20, 2012
 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.

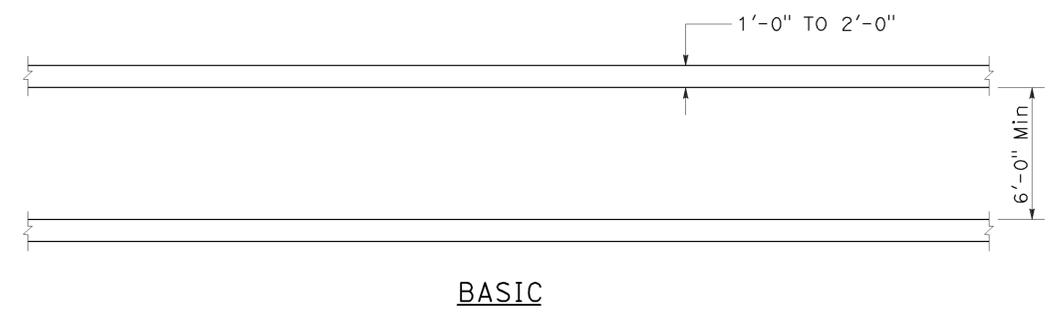
TO ACCOMPANY PLANS DATED 03-02-15



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.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
CROSSWALKS**
NO SCALE

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

2010 REVISED STANDARD PLAN RSP A24F

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

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 08 | Riv | 74 | 32.3/34.8, 35.4/36.5 | 15 | 21 |

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Theresa Aziz Gabriel
No. E15129
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 03-02-15

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
- 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:**
- 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.
 - 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.
 - 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

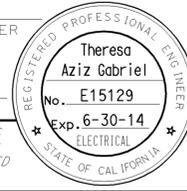
**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**

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



TO ACCOMPANY PLANS DATED 03-02-15

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 |
| | | CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE |

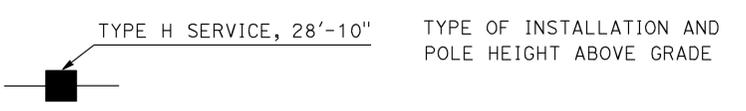
SIGNAL EQUIPMENT

| NEW | EXISTING | |
|-----|----------|---|
| | | 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 |
| | | 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 |

SERVICE EQUIPMENT

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

POLE-MOUNTED SERVICE DESIGNATION



FLASHING BEACON

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

SIGNAL EQUIPMENT Cont

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

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- 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

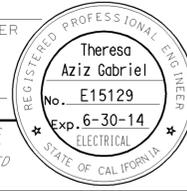
ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

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

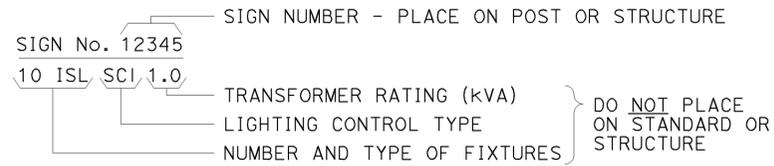
2010 REVISED STANDARD PLAN RSP ES-1B



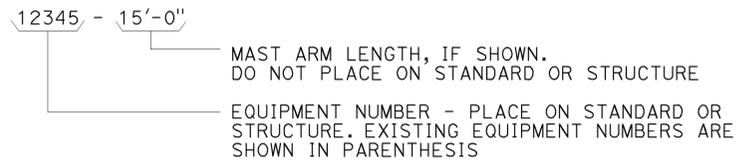
TO ACCOMPANY PLANS DATED 03-02-15

EQUIPMENT IDENTIFICATION

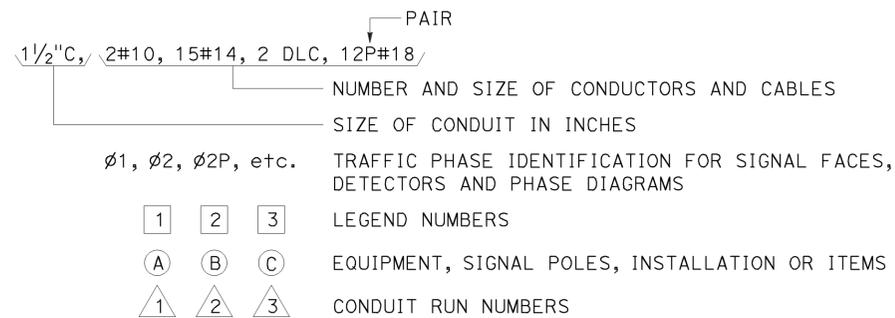
ILLUMINATED SIGN IDENTIFICATION NUMBER:



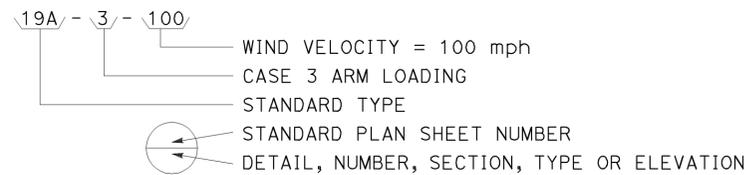
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



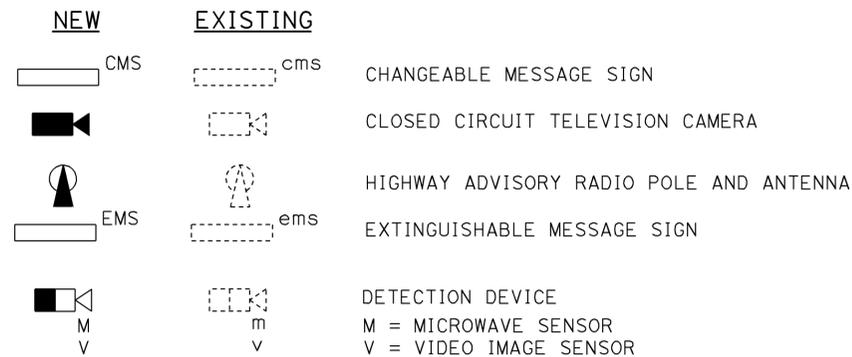
CONDUIT AND CONDUCTOR IDENTIFICATION:



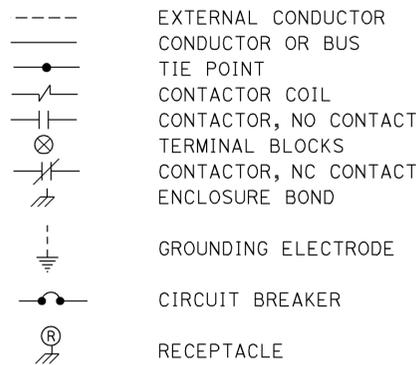
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



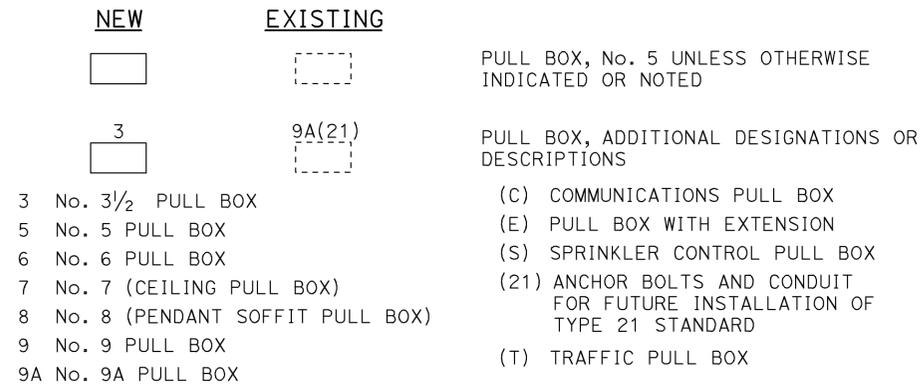
MISCELLANEOUS EQUIPMENT



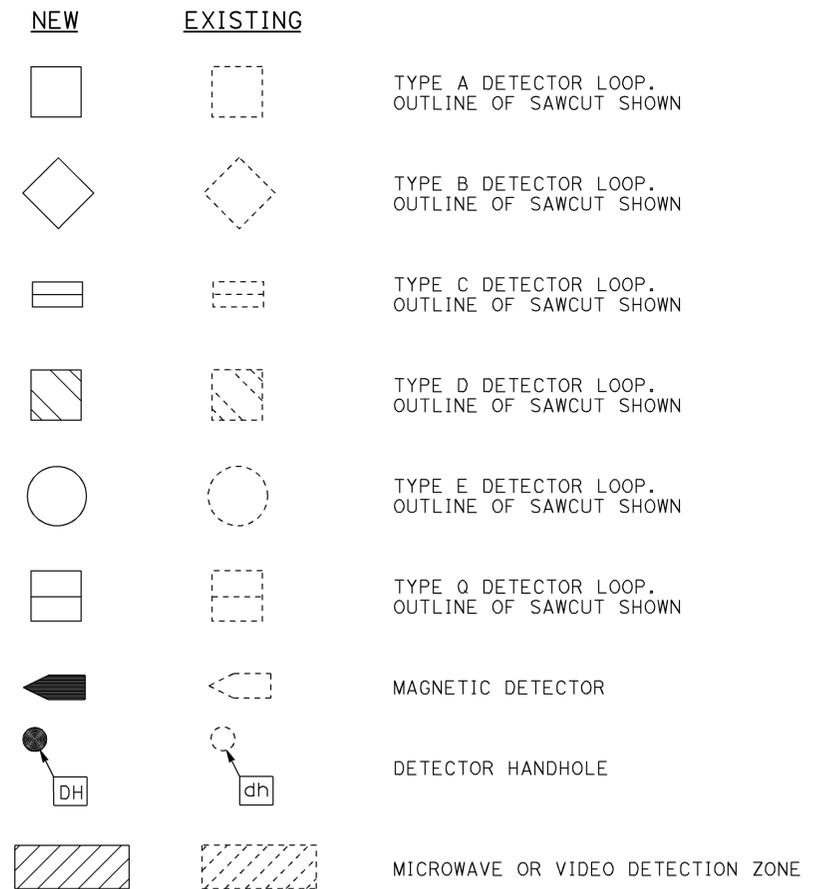
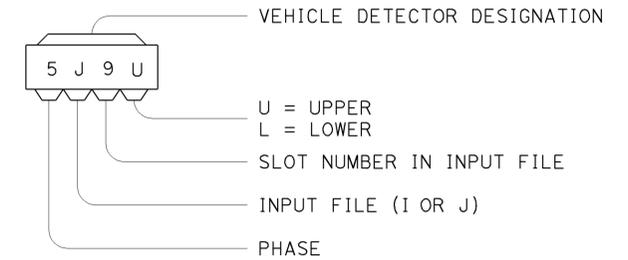
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (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

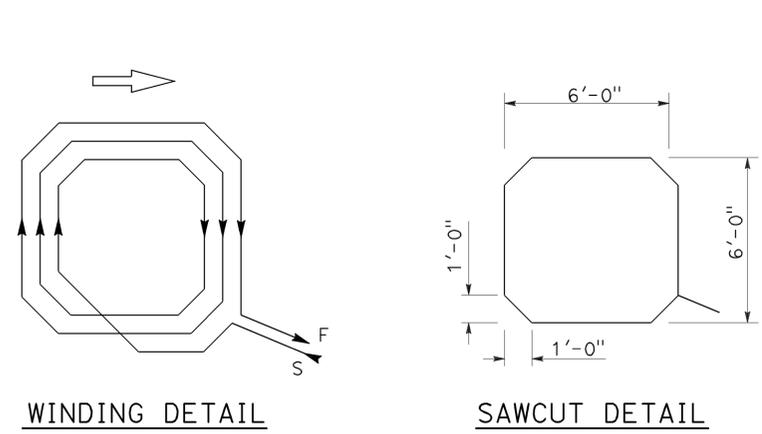
2010 REVISED STANDARD PLAN RSP ES-1C

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 08 | Riv | 74 | 32.3/34.8, 35.4/36.5 | 18 | 21 |

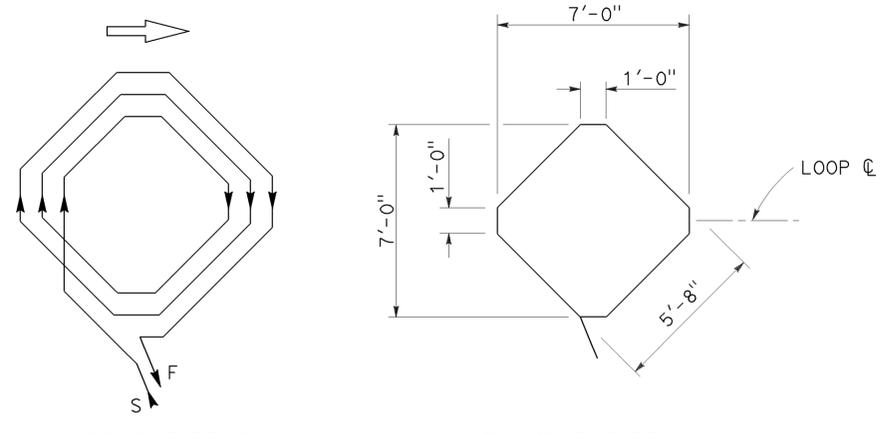
Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

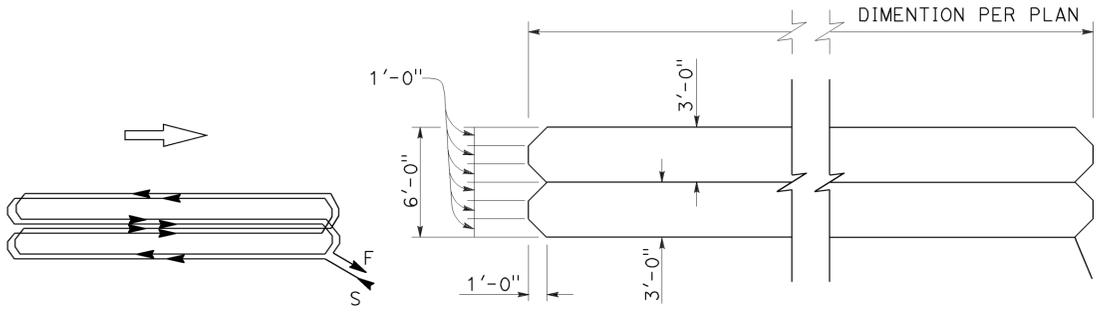
TO ACCOMPANY PLANS DATED 03-02-15



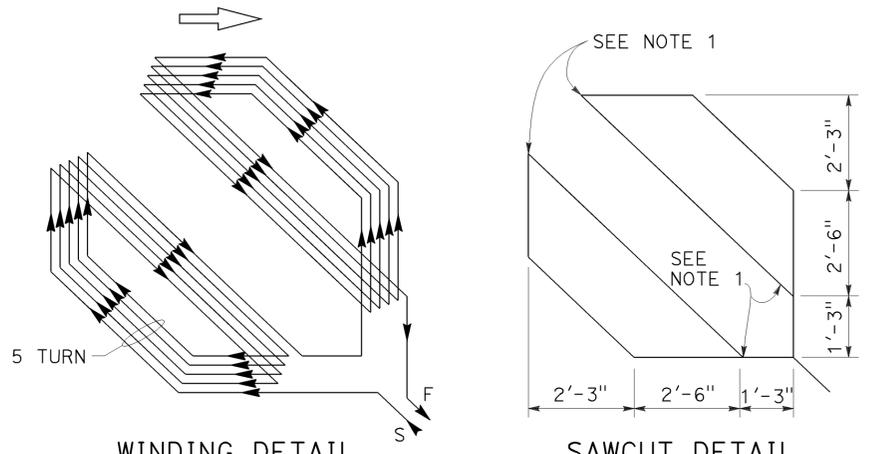
WINDING DETAIL
SAWCUT DETAIL
TYPE A LOOP DETECTOR CONFIGURATION



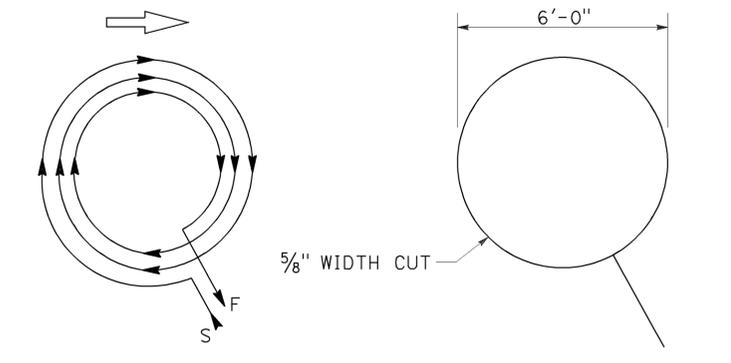
WINDING DETAIL
SAWCUT DETAIL
TYPE B LOOP DETECTOR CONFIGURATION



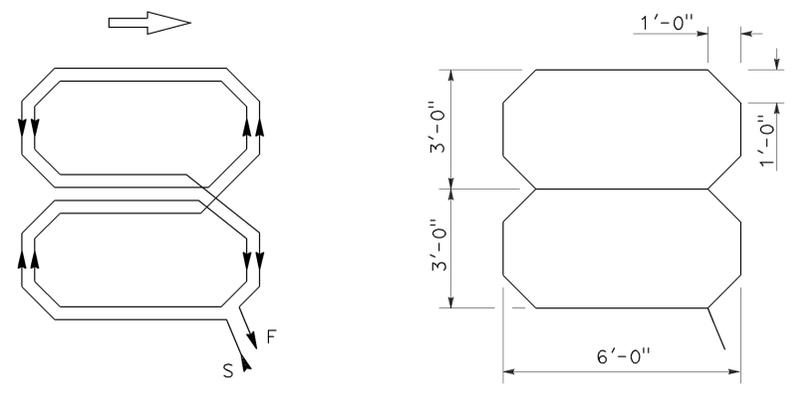
WINDING DETAIL
SAWCUT DETAIL
TYPE C LOOP DETECTOR CONFIGURATION



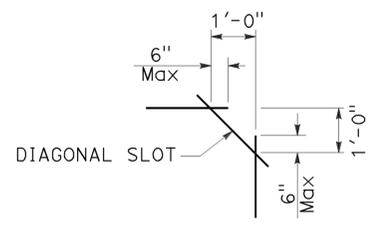
WINDING DETAIL
SAWCUT DETAIL
TYPE D LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAWCUT DETAIL
TYPE E LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAWCUT DETAIL
TYPE Q LOOP DETECTOR CONFIGURATION



**PLAN VIEW OF
DIAGONAL SLOT
AT CORNERS**

- NOTES:**
1. Round corners of acute angle sawcuts to prevent damage to conductors.
 2. Typical distance separating loops from edge to edge is 10' for Type A, B, D and E installation in single lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(DETECTORS)**

NO SCALE

RSP ES-5B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5B
DATED MAY 20, 2011 - PAGE 449 OF THE STANDARD PLANS BOOK DATED 2010.

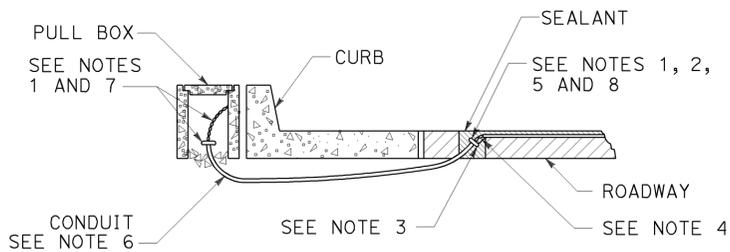
2010 REVISED STANDARD PLAN RSP ES-5B

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 08 | Riv | 74 | 32.3/34.8, 35.4/36.5 | 19 | 21 |

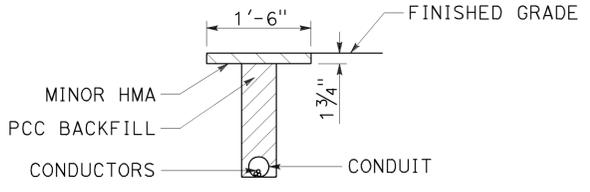
Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



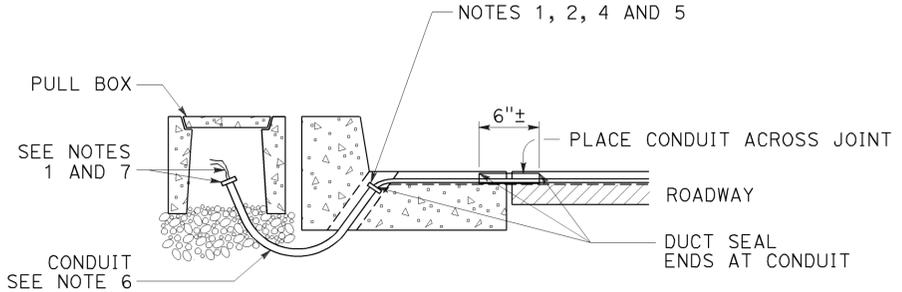
TO ACCOMPANY PLANS DATED 03-02-15



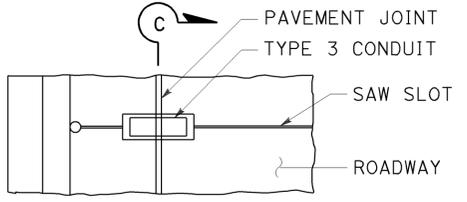
**TYPE A
CURB TERMINATION DETAIL**



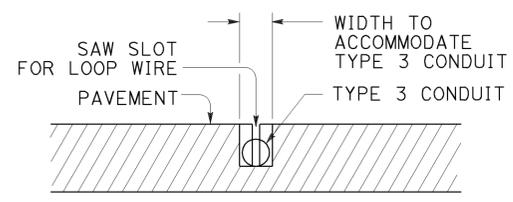
**"T" TRENCH
DETAIL T**



CROSS SECTION

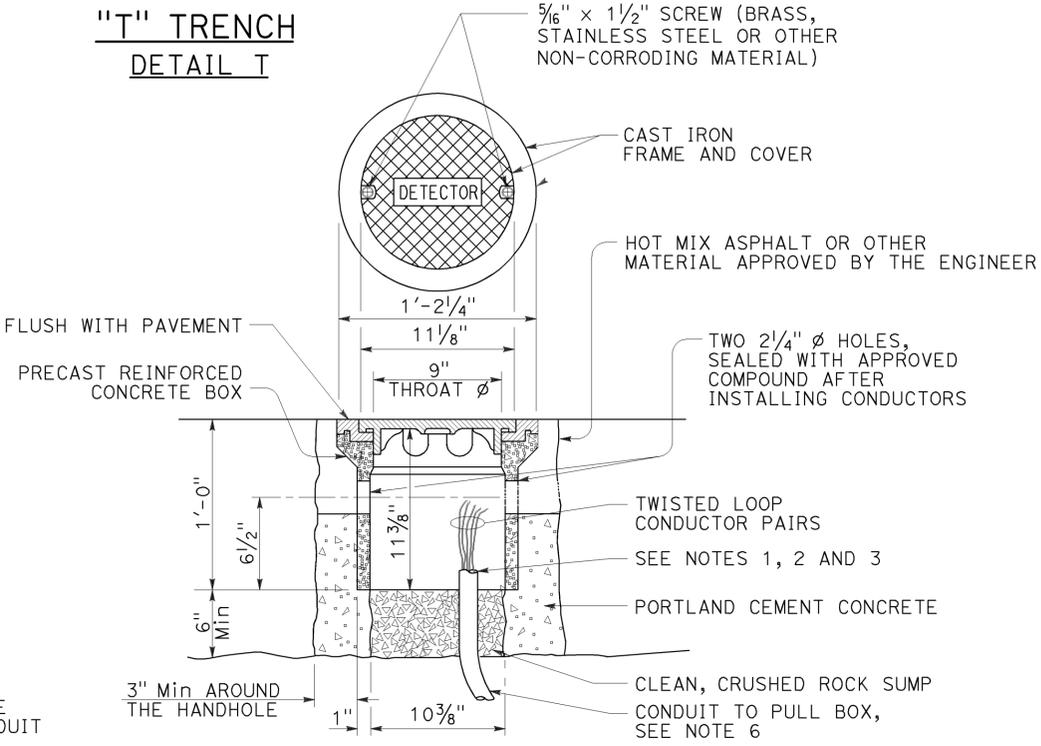


PLAN VIEW

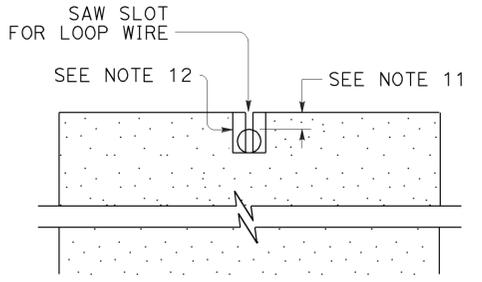


SECTION C-C

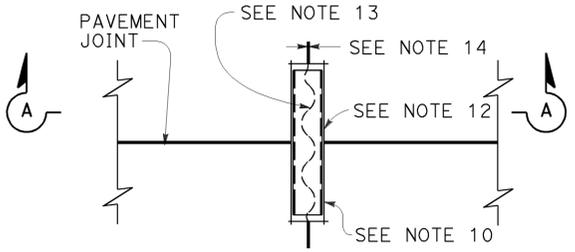
**TYPE B
CURB TERMINATION DETAIL**



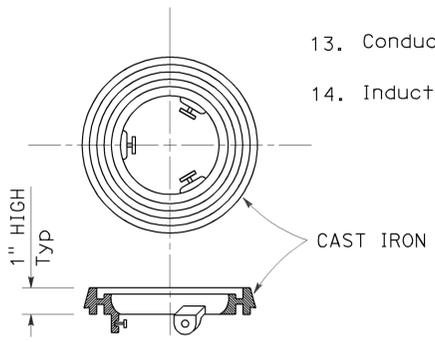
DETECTOR HANDHOLE DETAIL



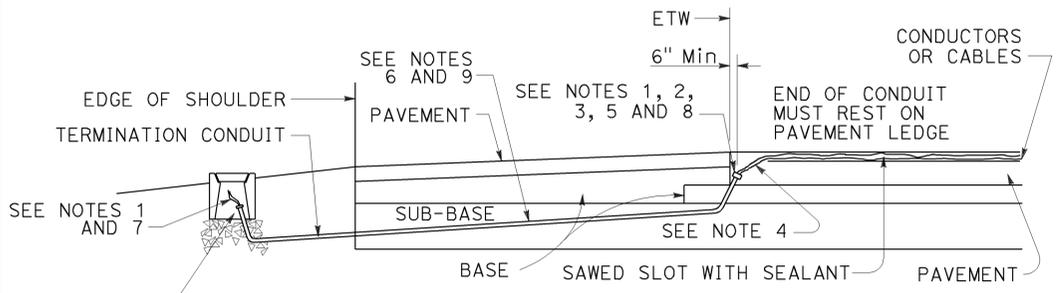
SECTION A-A



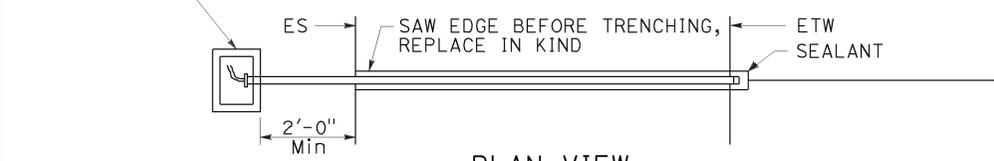
**TYPICAL LOOP LEAD-IN DETAIL
AT PAVEMENT JOINT**



LOCKING GRADE RING



CROSS SECTION



**PLAN VIEW
SHOULDER TERMINATION DETAILS**

NOTES:

- Bushing shall be used at end of conduit.
- Tape detector conductors or cables 3" each side of bushings.
- Install duct seal compound to each end of termination conduit before installing sealant.
- Round all sharp edges where detector conductors or cables have to pass.
- End of conduit shall be 3/8" below roadway surface.
- Conduit size Loop conductors
 1"C minimum 1 to 2 pairs
 1 1/2"C minimum 3 to 4 pairs
 2"C minimum 5 or more pairs
- Splice detector conductors or cables to detector lead-in-cable.
- Location of detector handhole when shown on plans.
- When the shoulder and traveled way are paved with the same material and there is no joint between them, the conduit shall extend only 2'-0" into the shoulder pavement.
- 3/4"C, Type 3 conduit 6" long minimum, plug both ends with duct compound to keep out sealant.
- 1/2" Minimum between top of conduit and pavement surface.
- Sawcut shall not exceed 1" in width and 1/8" longer than conduit to be installed.
- Conductors with 1/2" minimum slack inside conduit.
- Inductive loop detector saw slot.

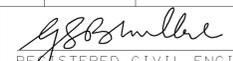
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
(CURB TERMINATION
AND HANDHOLE)**
NO SCALE

RSP ES-5D DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5D
DATED MAY 20, 2011 - PAGE 451 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-5D

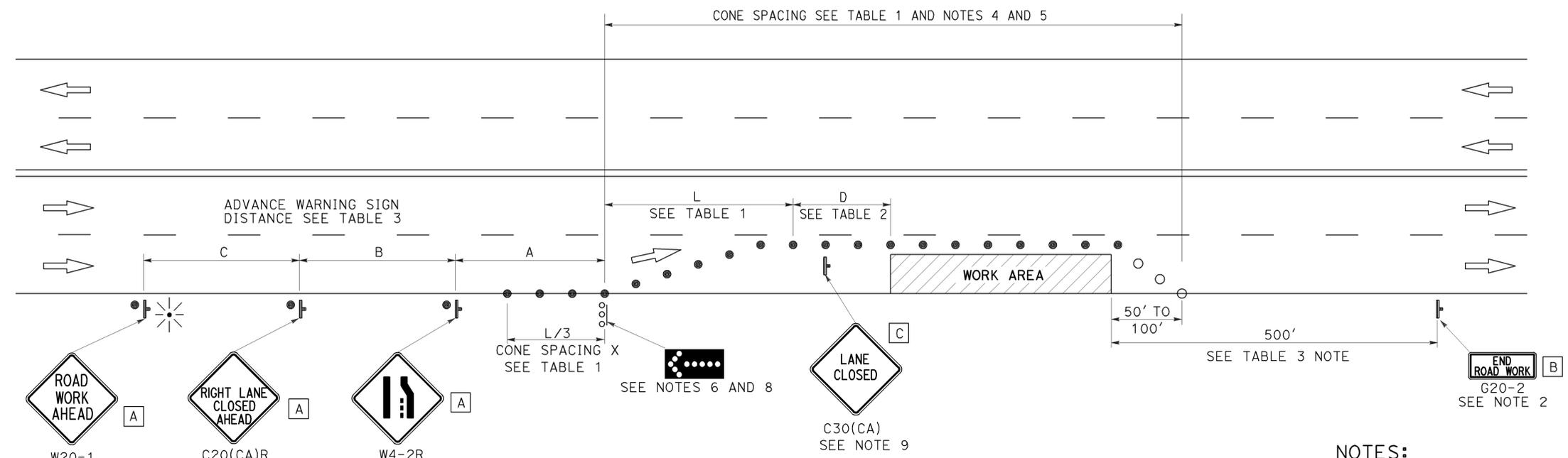
2010 REVISED STANDARD PLAN RSP ES-5D

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 08 | Riv | 74 | 32.3/34.8, 35.4/36.5 | 20 | 21 |


 REGISTERED CIVIL ENGINEER
 April 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 03-02-15



TYPICAL LANE CLOSURE

NOTES:

See Revised Standard Plan RSP T9 for tables.

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

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

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

NOTES:

- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- 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.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow sign shall be either Type I or Type II.
- For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

LEGEND

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

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 08 | Riv | 74 | 32.3/34.8, 35.4/36.5 | 21 | 21 |

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
 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.

LEGEND

- TRAFFIC CONE
- ⌋ TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ☀ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

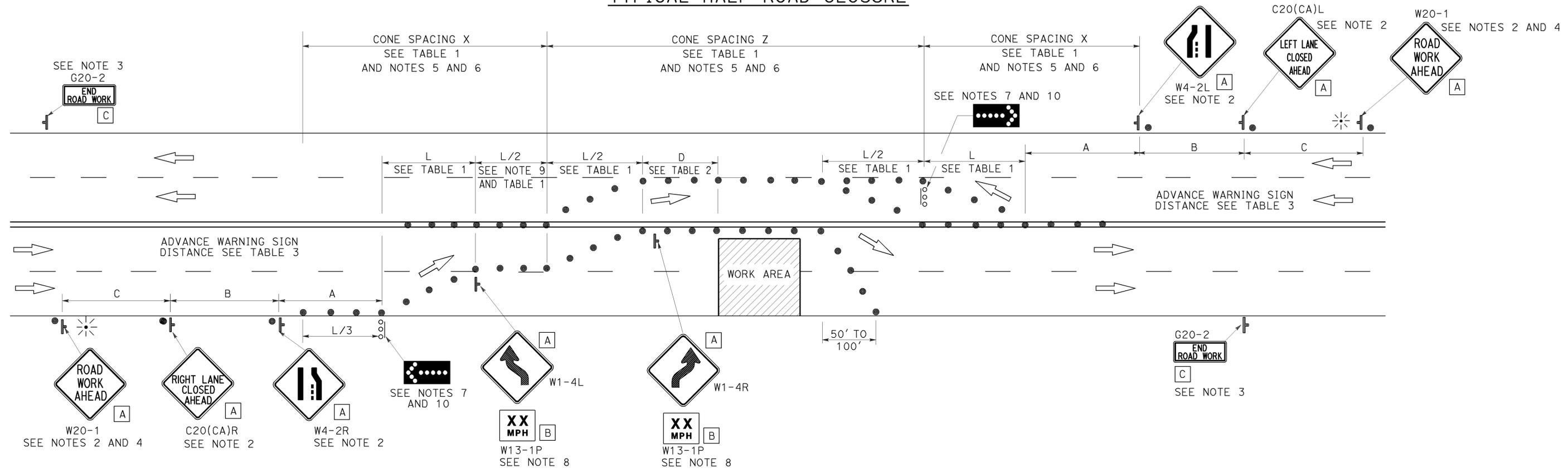
- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

NOTES:

See Revised Standard Plan RSP T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
 California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TO ACCOMPANY PLANS DATED 03-02-15

TYPICAL HALF ROAD CLOSURE



NOTES:

1. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
2. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
4. 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.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow signs shall be either Type I or Type II.
8. Advisory speed will be determined by the Engineer. The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
9. Unless otherwise specified in the special provisions, the tangent (L/2) shall be used.
10. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR HALF ROAD CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS AND EXPRESSWAYS**

NO SCALE

RSP T12 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T12
 DATED MAY 20, 2011 - PAGE 240 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T12

2010 REVISED STANDARD PLAN RSP T12