

INDEX OF PLANS

| SHEET No. | DESCRIPTION |
|-----------|--|
| 1 | TITLE AND LOCATION MAP |
| 2-5 | LAYOUT |
| 6-9 | CONSTRUCTION DETAILS |
| 10 | CONSTRUCTION AREA SIGNS |
| 11-20 | TRAFFIC HANDLING PLANS AND QUANTITIES |
| 21-27 | PAVEMENT DELINEATION AND SIGN PLANS AND QUANTITIES |
| 28 | SUMMARY OF QUANTITIES |
| 29-32 | ELECTRICAL PLANS |
| 33-48 | REVISED AND NEW STANDARD PLANS |

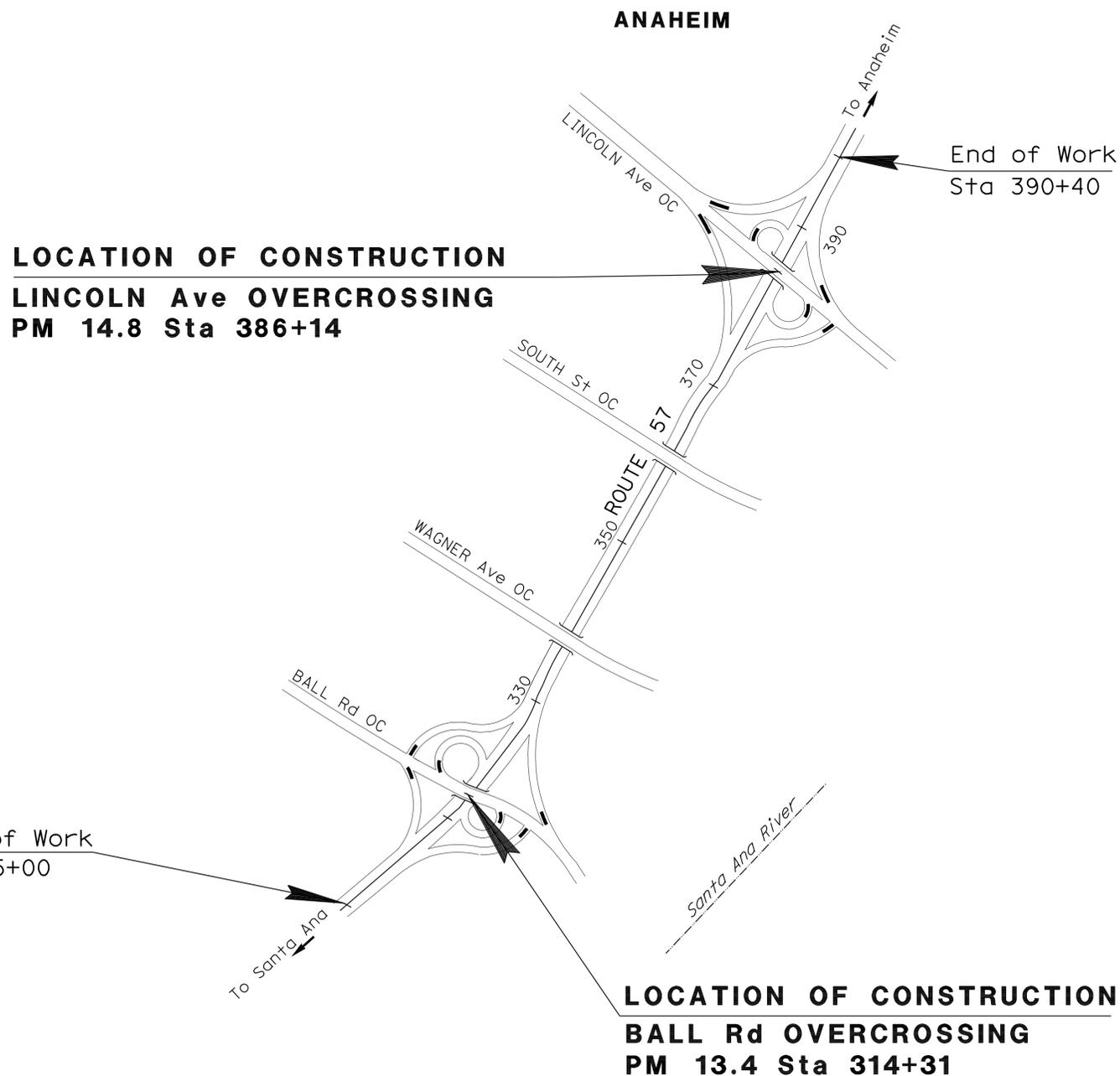
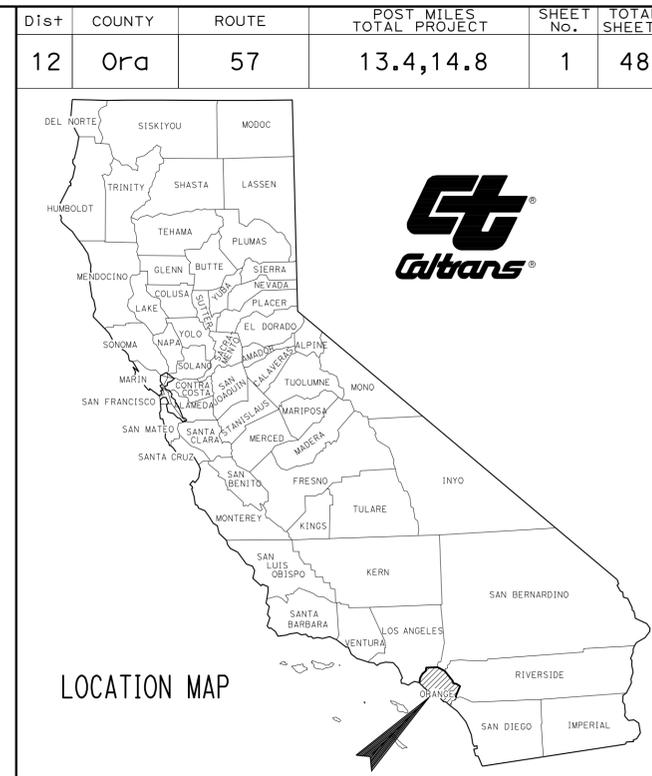
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACNH-P057(057)E

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ORANGE COUNTY
IN ANAHEIM
AT BALL ROAD OVERCROSSING AND
AT LINCOLN AVENUE OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



NO SCALE



| | |
|-----------------|-----------------|
| PROJECT MANAGER | BOB BAZARGAN |
| DESIGN ENGINEER | GHANSHYAM PATEL |

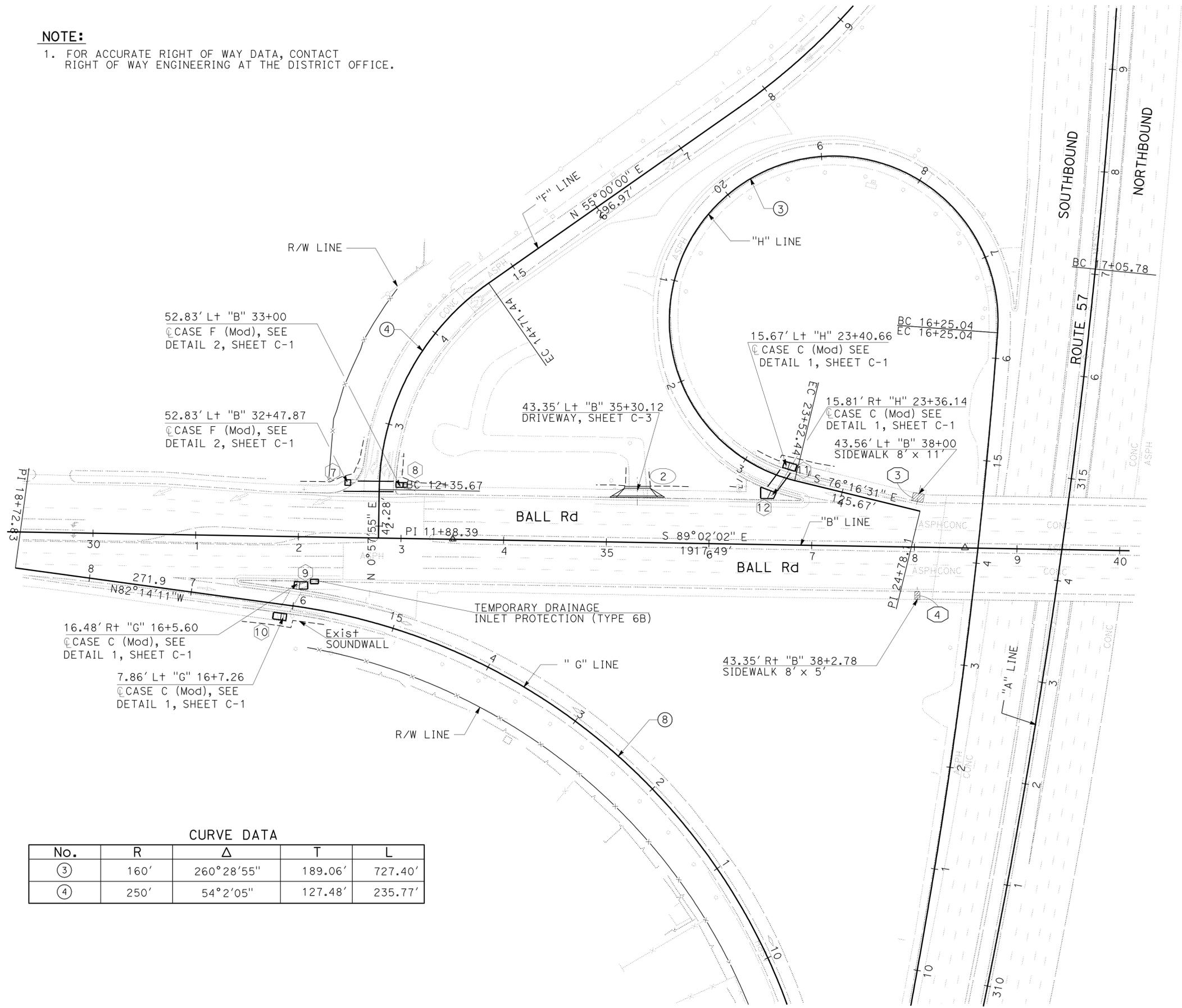
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

GHPatel 11/15/11
PROJECT ENGINEER REGISTERED CIVIL ENGINEER DATE
February 6, 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.

| | |
|--------------|------------|
| CONTRACT No. | 12-0M1604 |
| PROJECT ID | 1200020303 |

NOTE:

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



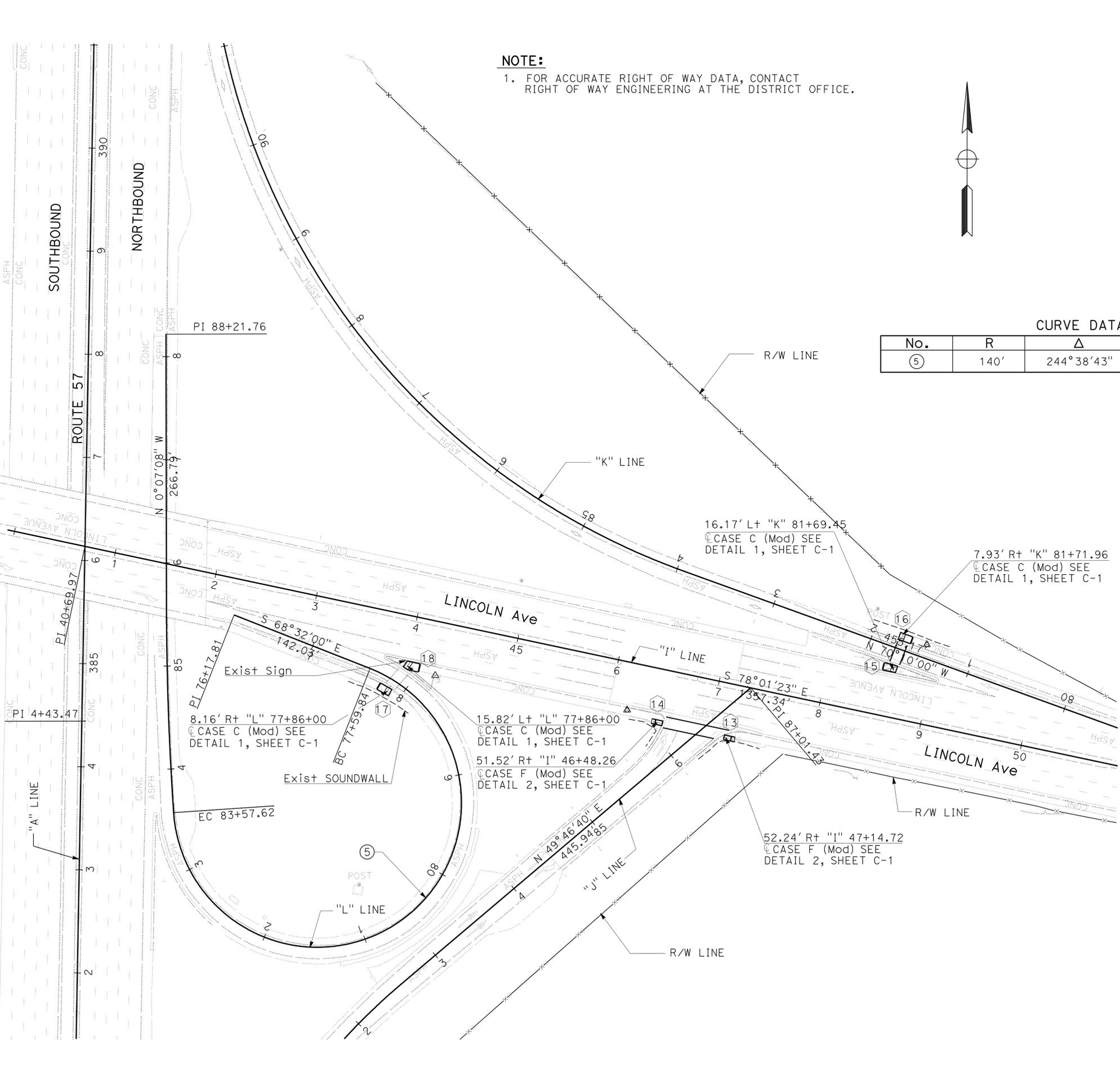
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
 Ghanshyam Patel
 RAJU VORA
 ANDREW OSHRIN

LAYOUT
SCALE: 1" = 50'

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION

| | | | |
|--|------------|-----------------|-----------|
| FUNCTIONAL SUPERVISOR ANDREW OSHRIN | CHECKED BY | DESIGNED BY | REVISIONS |
| CALCULATED/DESIGNED BY | CHANGED BY | GHANSHYAM PATEL | REVISOR |
| | | RAJU VORA | DATE |
| | | | REVISION |



| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 4 | 48 |

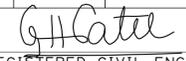
REGISTERED CIVIL ENGINEER
 GHANSHYAM PATEL
 No. C35253
 Exp. 09/30/13
 CIVIL

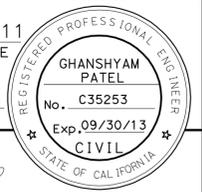
11/15/11
 DATE

2-6-12
 PLANS APPROVAL DATE

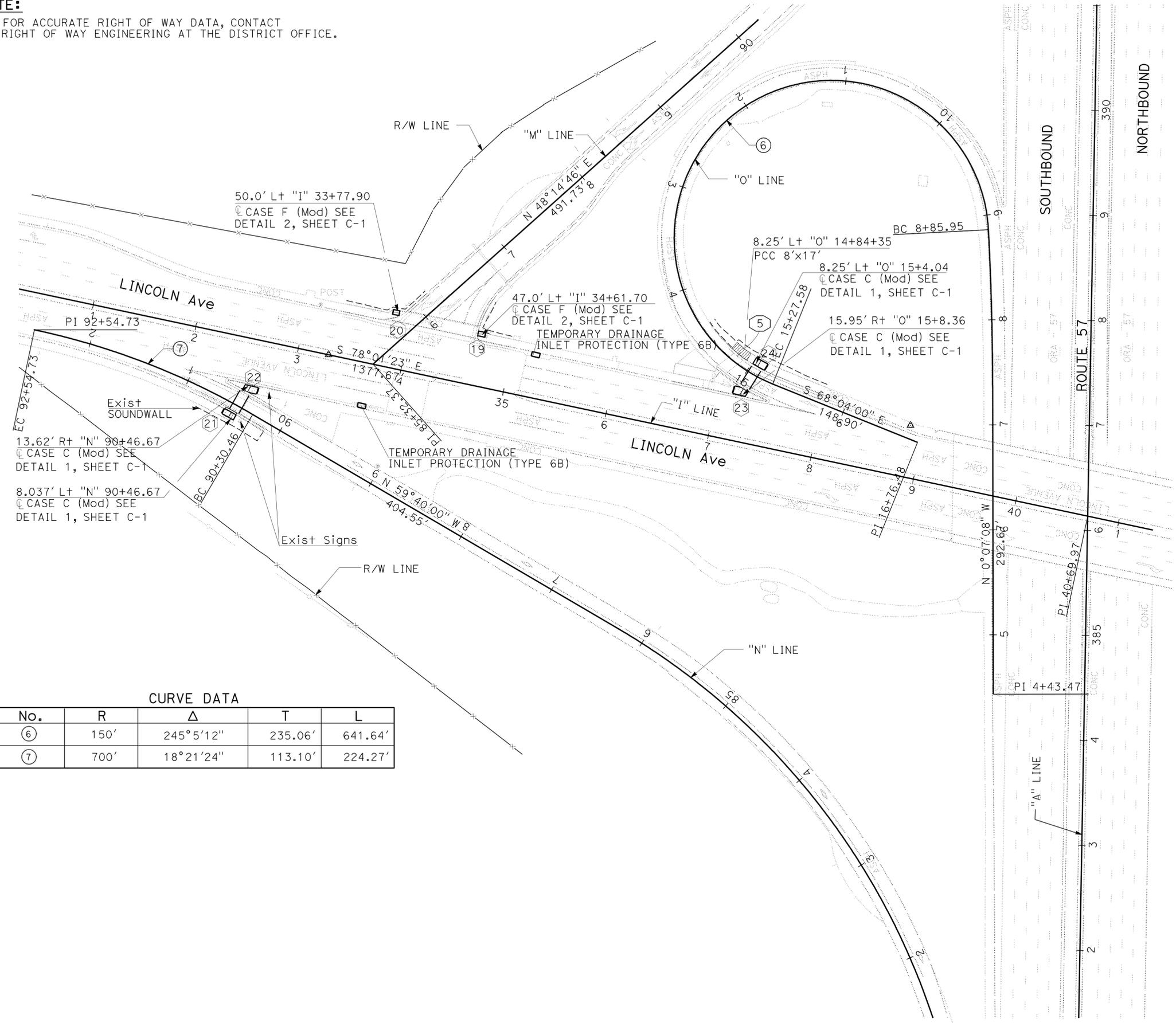
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LAST REVISION DATE PLOTTED => 10-FEB-2012
 11-08-11 TIME PLOTTED => 16:26

| | | | | | |
|--|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 5 | 48 |
|  | | | 11/15/11 | | |
| REGISTERED CIVIL ENGINEER | | | DATE | | |
| 2-6-12 | | | PLANS APPROVAL DATE | | |
| <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small> | | | | | |



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



| No. | R | Δ | T | L |
|-----|------|-----------|---------|---------|
| ⑥ | 150' | 245°5'12" | 235.06' | 641.64' |
| ⑦ | 700' | 18°21'24" | 113.10' | 224.27' |



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DESIGN DIVISION

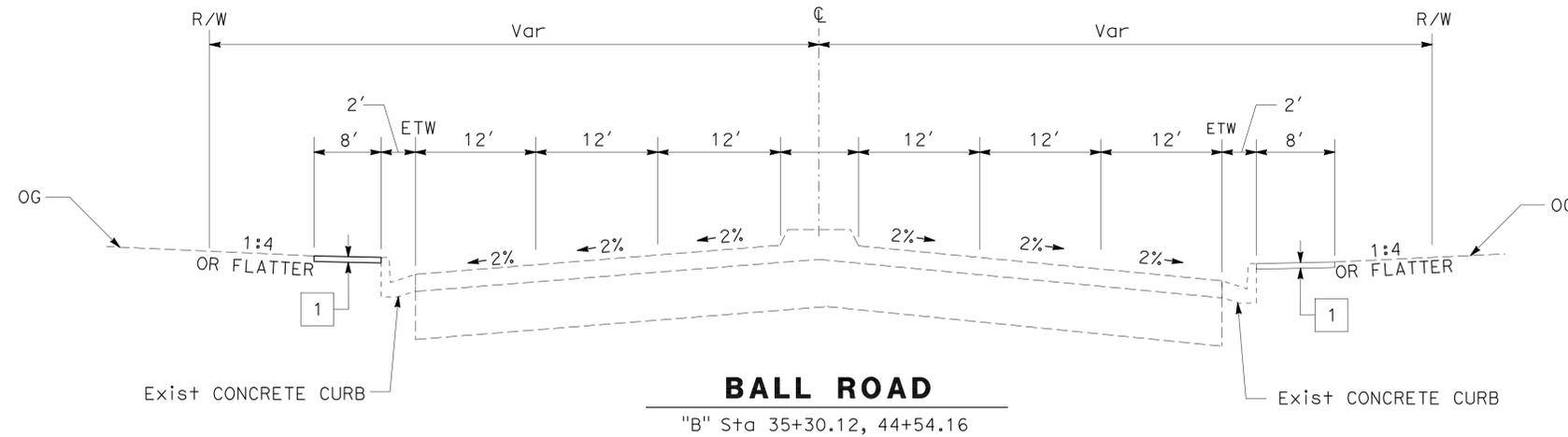
| | |
|------------------------|---------------|
| FUNCTIONAL SUPERVISOR | ANDREW OSHRIN |
| CALCULATED/DESIGNED BY | CHECKED BY |
| GHANSHYAM PATEL | RAJU VORA |
| REVISED BY | DATE REVISED |

LAYOUT
SCALE: 1" = 50'

L-4

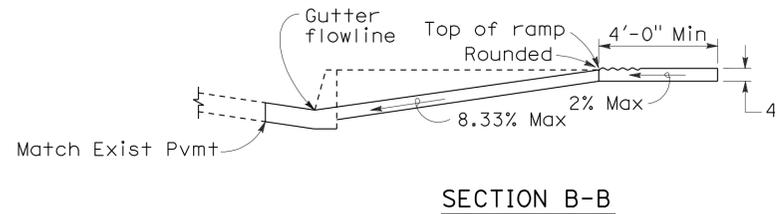
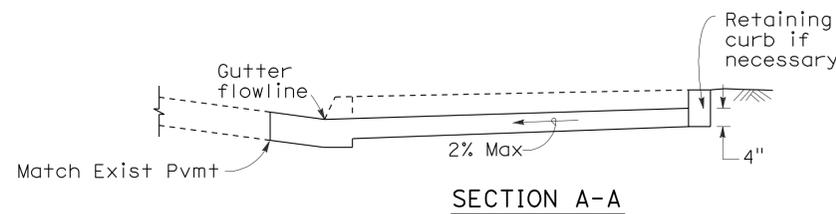
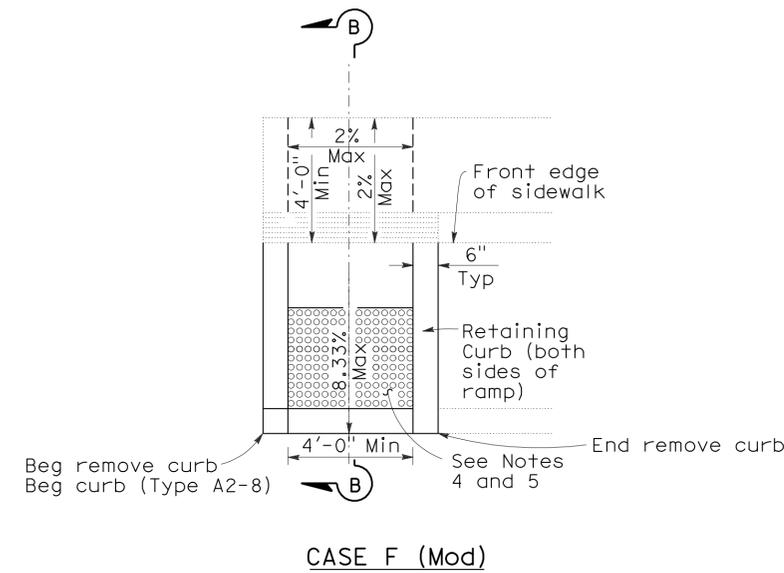
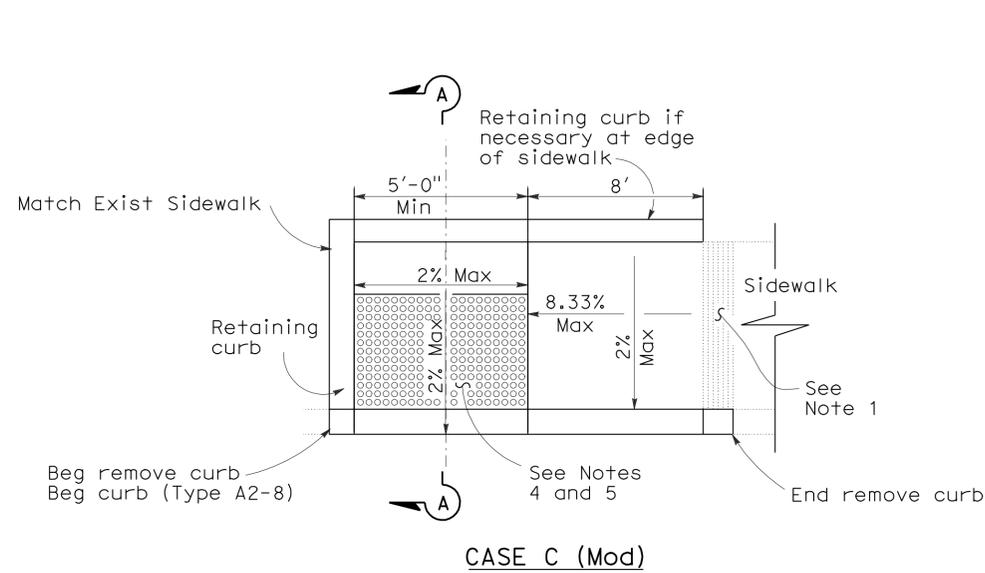
LAST REVISION DATE PLOTTED => 10-FEB-2012 11-08-11 TIME PLOTTED => 16:26

| | | | | | |
|---|--------|---------------------|--------------------------|--------------------------------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4, 14.8 | 6 | 48 |
| G. Patel | | 11/15/11 | | REGISTERED CIVIL ENGINEER DATE | |
| 2-6-12 | | 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 GHANSHYAM PATEL No. C35253 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA | | | | | |

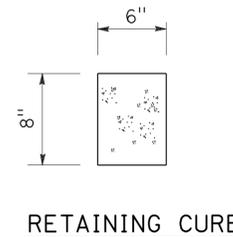


NOTES:

1. For curb ramp details not shown, see Revised Standard Plan RSP A88A.
2. Orientation of curb ramp shall be perpendicular to crosswalk or as directed by the Engineer.



TYPICAL STRUCTURAL SECTION



CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN DIVISION

REVISOR: GHANSHYAM PATEL, RAJU VORA

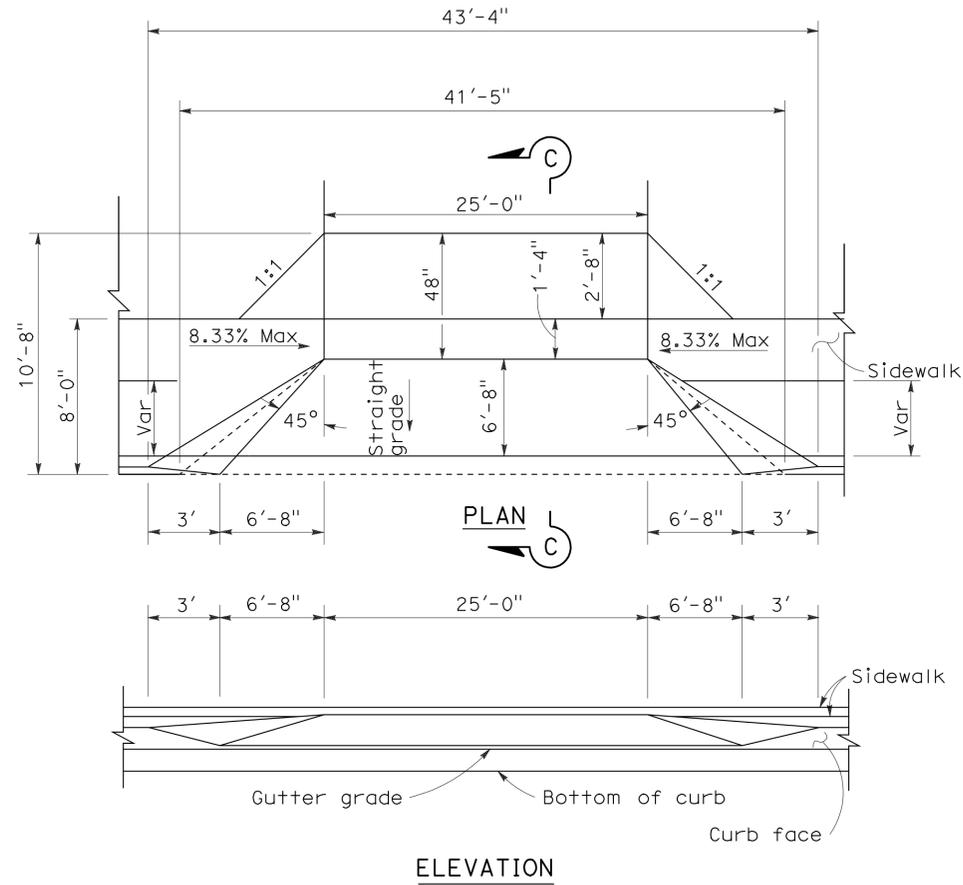
CALCULATED/DESIGNED BY: ANDREW OSHRIN

FUNCTIONAL SUPERVISOR: ANDREW OSHRIN

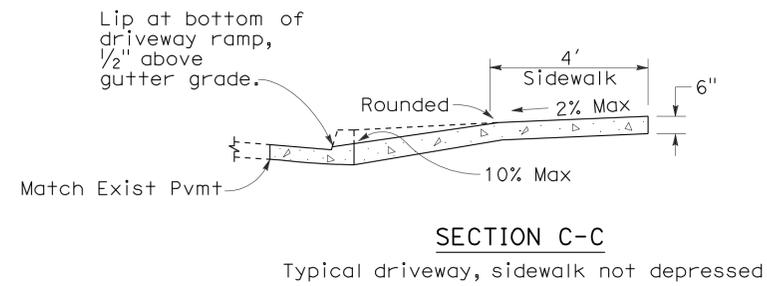
DESIGN DIVISION

| | | | | | |
|--|--------|-------|-----------------------------|--|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4, 14.8 | 7 | 48 |
| <i>G. Patel</i> REGISTERED CIVIL ENGINEER | | | 11/15/11 DATE | REGISTERED PROFESSIONAL ENGINEER GHANSHYAM PATEL No. C35253 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA | |
| 2-6-12 PLANS APPROVAL DATE | | | | | |
| <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small> | | | | | |

NOTE: FOR DETAILS NOT SHOWN, SEE REVISED STANDARD PLANS A87A.



DRIVEWAY 1 (Mod)

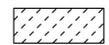


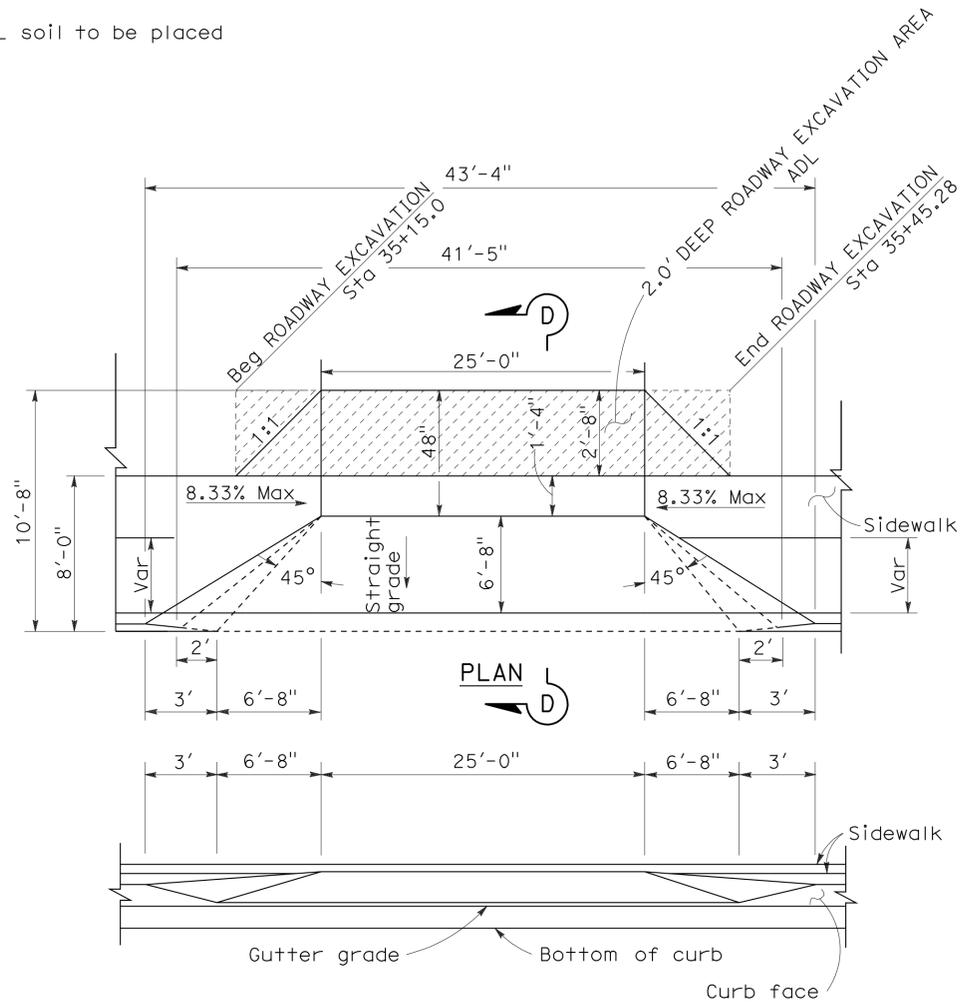
| | |
|--|-----------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN DIVISION |
| Caltrans | |
| FUNCTIONAL SUPERVISOR | ANDREW OSHRIN |
| CALCULATED/DESIGNED BY | CHECKED BY |
| GHANSHYAM PATEL | RAJU VORA |
| REVISED BY | DATE |
| | |

| | | | | | |
|--|--------|-------|--------------------------|--|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4, 14.8 | 8 | 48 |
| <i>G. Patel</i> REGISTERED CIVIL ENGINEER | | | 11/15/11 DATE | REGISTERED PROFESSIONAL ENGINEER GHANSHYAM PATEL No. C35253 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA | |
| 2-6-12 PLANS APPROVAL DATE | | | | | |
| <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small> | | | | | |

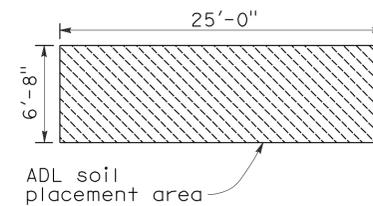
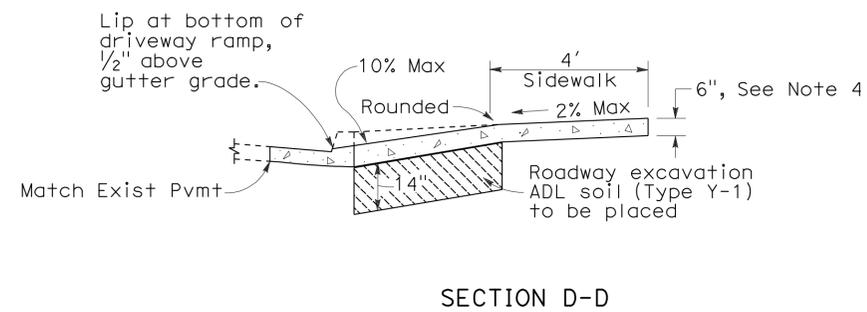
NOTE: FOR DETAILS NOT SHOWN, SEE REVISED STANDARD PLANS A87A.

LEGEND:

-  ADL soil
-  ADL soil to be placed



PLAN
ELEVATION
DRIVEWAY 2 (Mod)



CONSTRUCTION DETAILS
NO SCALE
C-3

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4, 14.8 | 10 | 48 |

G. Patel 11/15/11
 REGISTERED CIVIL ENGINEER DATE
 2-6-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 GHANSHYAM PATEL
 No. C35253
 Exp. 09/30/13
 CIVIL
 STATE OF CALIFORNIA

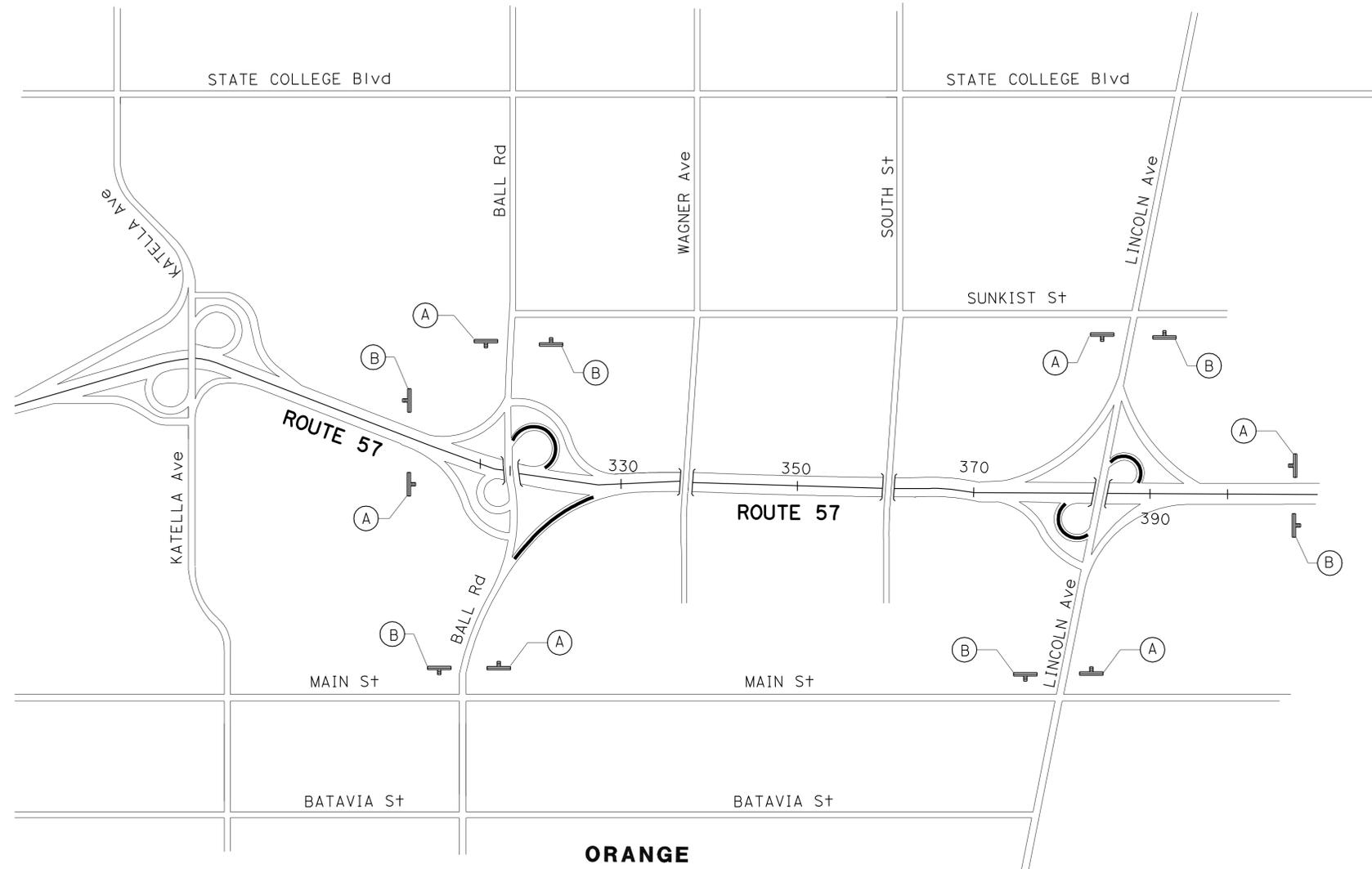
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- CONSTRUCTION AREA SIGNS SHALL BE LOCATED 100 FEET AWAY FROM THE INTERSECTION.

LEGEND:

- ⊥ CONSTRUCTION AREA SIGN-1 POST
- ⊗ CONSTRUCTION AREA SIGN No.



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

| SIGN No. | SIGN CODE | PANEL SIZE | SIGN MESSAGE | No. OF POSTS AND SIZES | No. OF SIGNS | DESCRIPTION |
|----------|-----------|------------|-----------------|------------------------|--------------|-------------|
| (A) | W20-1 | 36" x 36" | ROAD WORK AHEAD | 1- 4" x 4" | 6 | |
| (B) | G20-2 | 36" x 18" | END ROAD WORK | 1- 4" x 4" | 6 | |

CONSTRUCTION AREA SIGNS

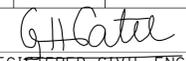
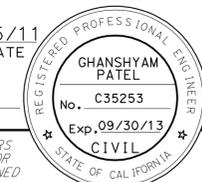
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
 Caltrans®
 FUNCTIONAL SUPERVISOR ANDREW OSHRIN
 CALCULATED/DESIGNED BY CHECKED BY
 GHANSHYAM PATEL RAJU VORA
 REVISED BY DATE REVISED
 USERNAME => s121614
 DGN FILE => 12000203031a001.dgn

LAST REVISION DATE PLOTTED => 13-FEB-2012
 10-24-11 TIME PLOTTED => 06:52

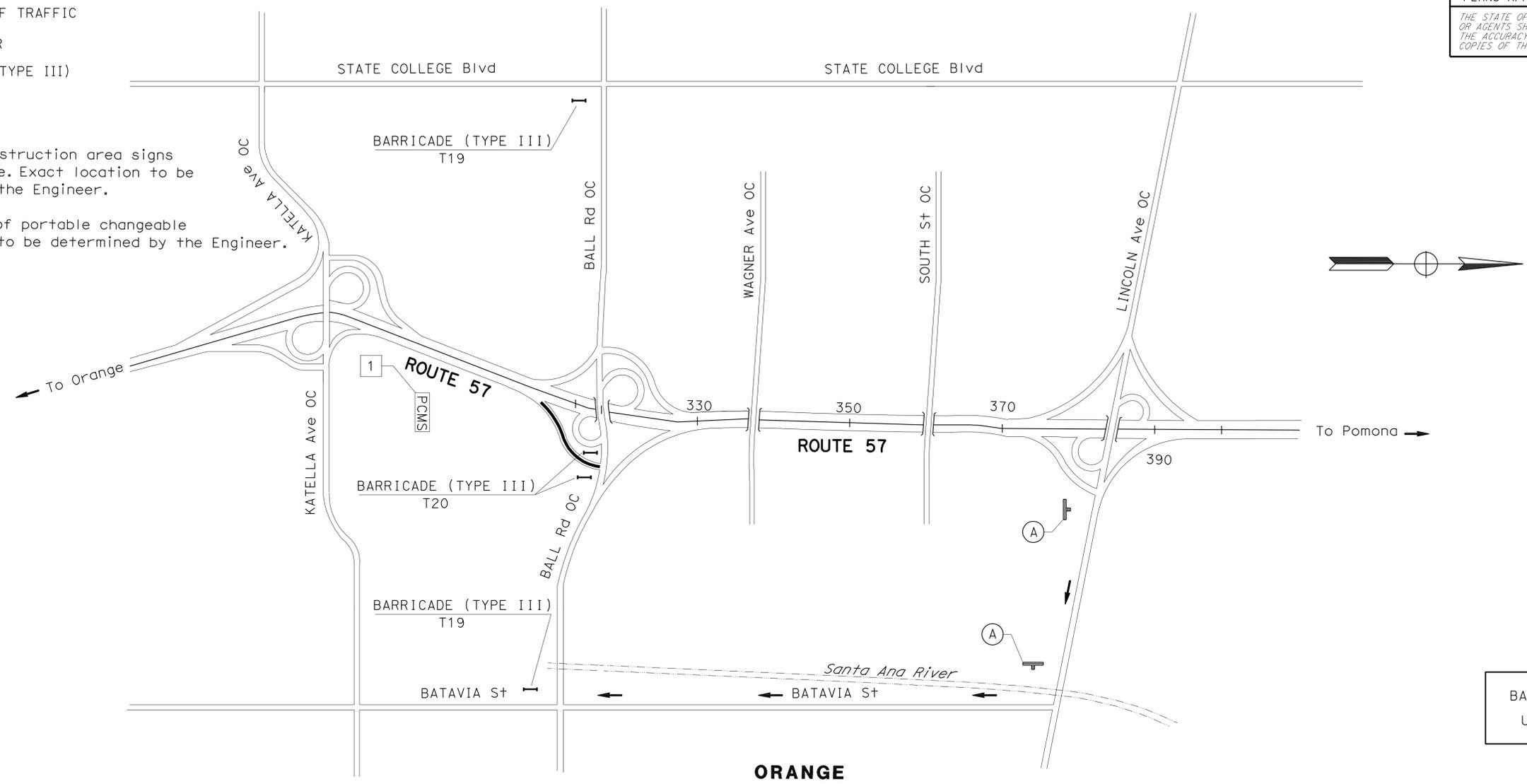
| | | | | | |
|--|--------|-------|--------------------------|---|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 11 | 48 |
|  REGISTERED CIVIL ENGINEER DATE 11/15/11 | | | |  | |
| 2-6-12 PLANS APPROVAL DATE | | | | | |
| <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> | | | | | |

LEGEND:

-  PORTABLE CHANGEABLE MESSAGE SIGN
-  CONSTRUCTION DETOUR SIGN
-  DIRECTION OF TRAFFIC
-  PCMS NUMBER
-  BARRICADE (TYPE III)

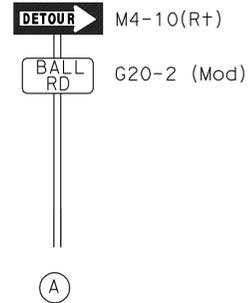
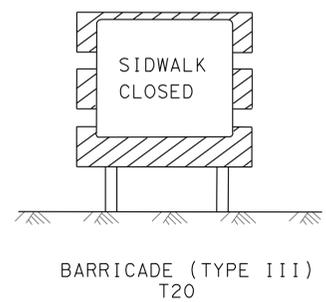
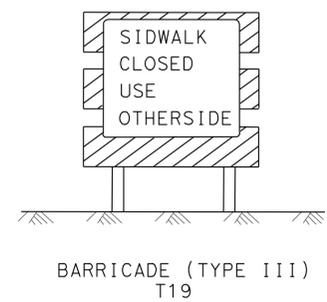
NOTES:

1. Location of construction area signs are approximate. Exact location to be determined by the Engineer.
2. Exact message of portable changeable message signs to be determined by the Engineer.



BALL ROAD CLOSED
USE NEXT EXIT

PCMS-1
1



CLOSURE:
NB Rte 57 TO LINCOLN AVENUE OFF RAMP

DETOUR:
NB Rte 57 TO LINCOLN AVENUE OFF TO
EB LINCOLN AVENUE TO SB BATAVIA STREET

**TRAFFIC HANDLING PLAN
(BALL ROAD DETOUR)**

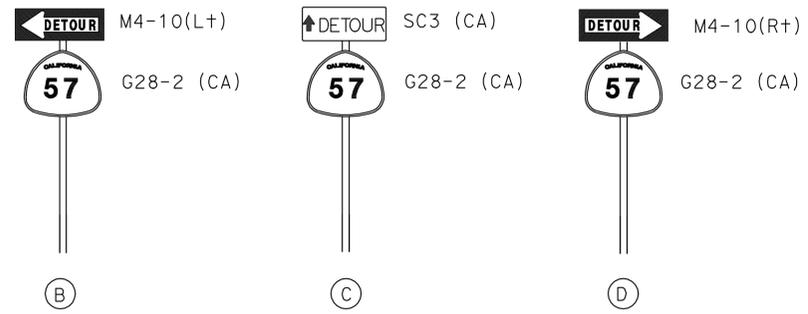
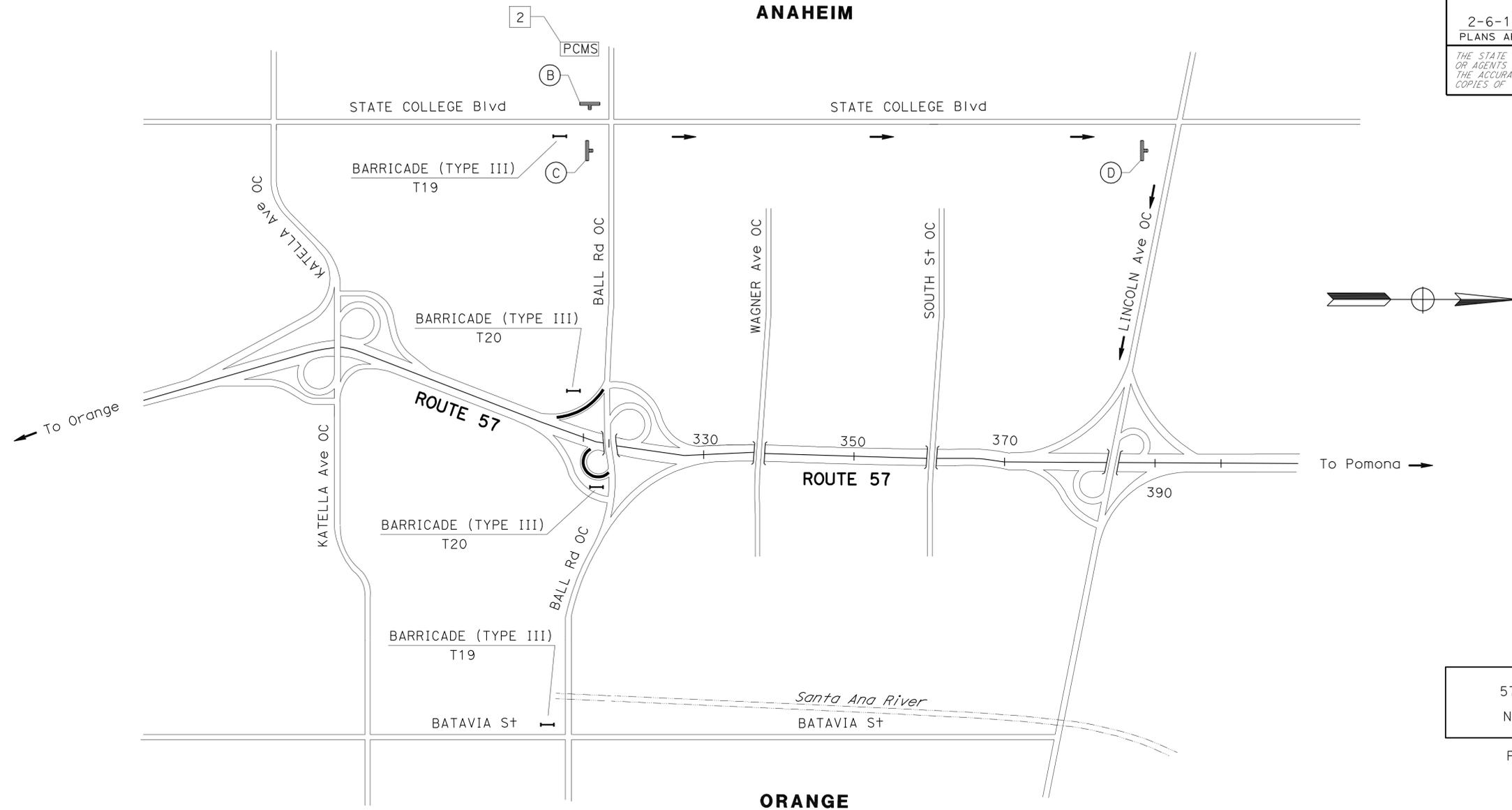
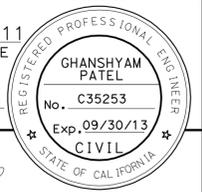
NO SCALE

TH-1

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN DIVISION
 FUNCTIONAL SUPERVISOR ANDREW OSHRIN
 CALCULATED/DESIGNED BY RAJU VORA
 CHECKED BY GHAUSHYAM PATEL
 REVISED BY DATE
 REVISIONS: 10-26-11 10-26-11

| | | | | | |
|---|--------|--------------------------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4, 14.8 | 12 | 48 |
| | | G. Patel 11/15/11 | | | |
| | | REGISTERED CIVIL ENGINEER DATE | | | |
| | | 2-6-12 | | | |
| | | 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. | | | | | |



CLOSURE:
EB BALL Rd TO NB AND SB Rte 57

DETOUR:
EB BALL Rd TO NB STATE COLLEGE Blvd TO EB LINCOLN Ave

57 DETOUR
NEXT LEFT
PCMS-2
2

**TRAFFIC HANDLING PLAN
(BALL ROAD DETOUR)**

NO SCALE

TH-2

APPROVED FOR TRAFFIC HANDLING WORK ONLY

| | |
|--|-----------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN DIVISION |
| FUNCTIONAL SUPERVISOR | ANDREW OSHRIN |
| CALCULATED/DESIGNED BY | CHECKED BY |
| GHANSHYAM PATEL | RAJU VORA |
| REVISED BY | DATE REVISED |

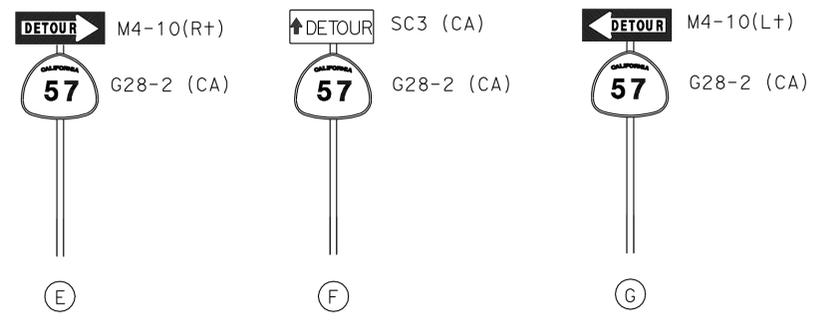
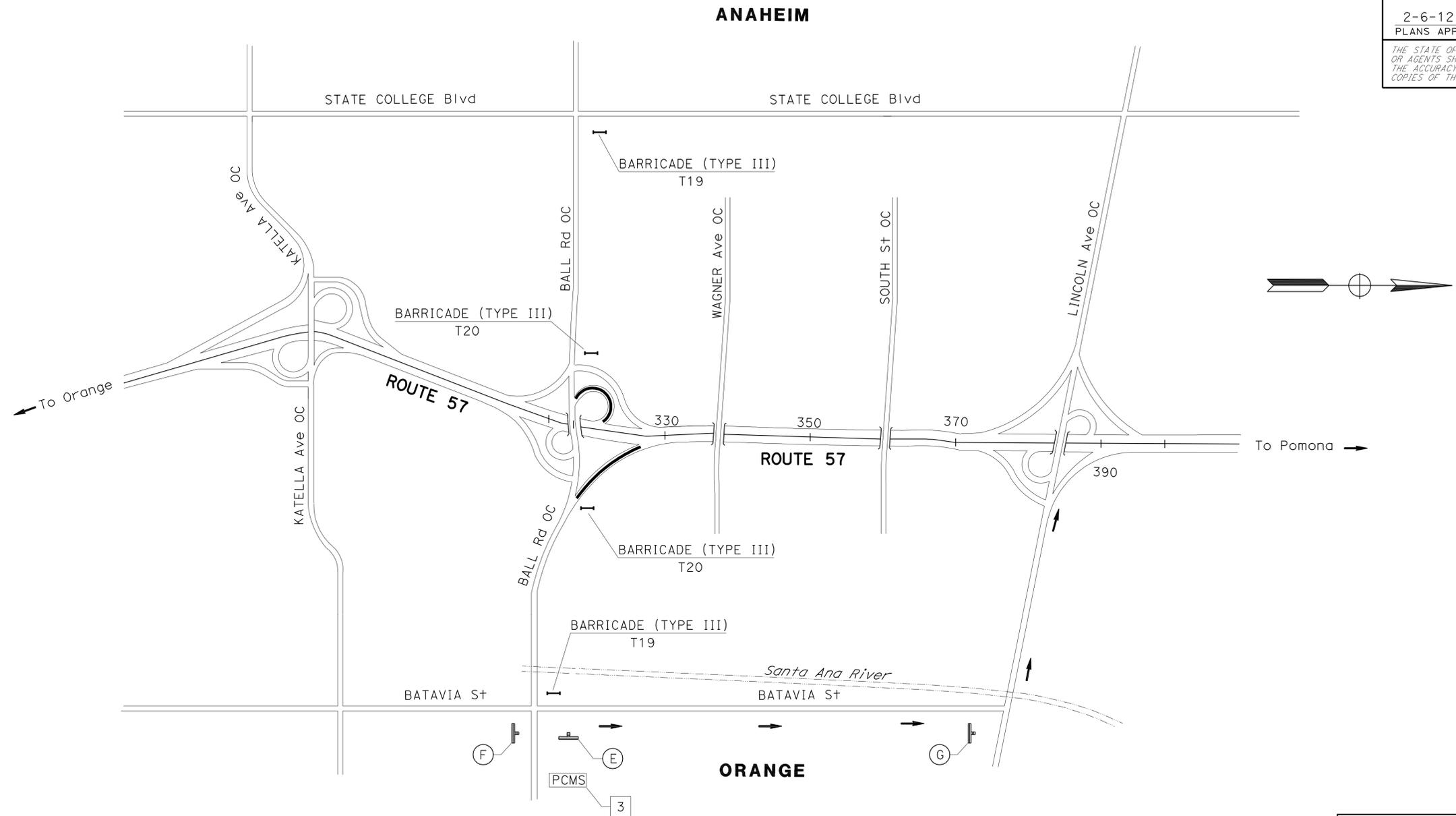
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 57 | 13.4, 14.8 | 13 | 48 |

G. Patel 11/15/11
 REGISTERED CIVIL ENGINEER DATE
 2-6-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 GHANSHYAM PATEL
 No. C35253
 Exp. 09/30/13
 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.

| | |
|--|-----------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN DIVISION |
| FUNCTIONAL SUPERVISOR | ANDREW OSHRIN |
| CALCULATED/DESIGNED BY | CHECKED BY |
| GHANSHYAM PATEL | RAJU VORA |
| REVISED BY | DATE REVISED |



CLOSURE:
WB BALL Rd TO NB AND SB Rte 57

DETOUR:
WB BALL Rd TO NB BATAVIA St TO WB LINCOLN Ave

57 DETOUR
NEXT RIGHT

PCMS-3
3

**TRAFFIC HANDLING PLAN
(BALL ROAD DETOUR)**

NO SCALE

TH-3

APPROVED FOR TRAFFIC HANDLING WORK ONLY

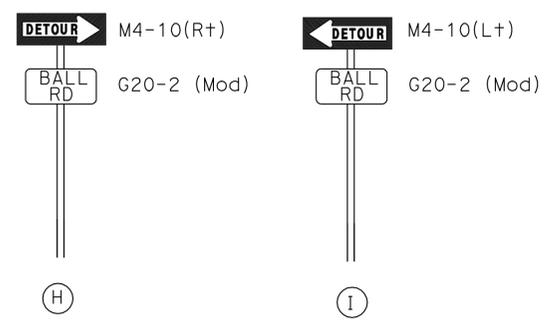
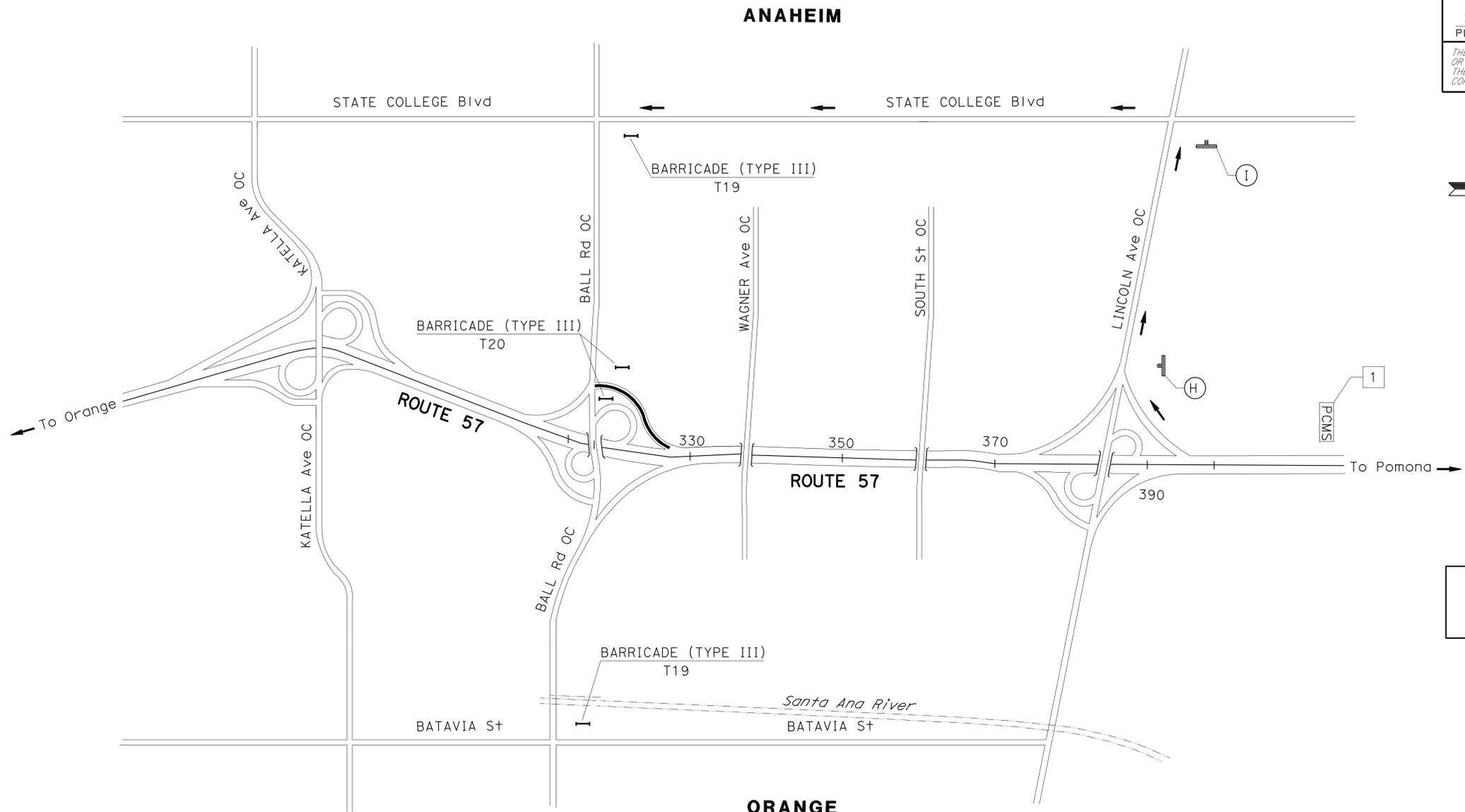
LAST REVISION DATE PLOTTED => 13-FEB-2012 TIME PLOTTED => 06:52

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4, 14.8 | 14 | 48 |

11/15/11
 REGISTERED CIVIL ENGINEER DATE
 2-6-12
 PLANS APPROVAL DATE

G. Patel
 REGISTERED CIVIL ENGINEER
 No. C35253
 Exp. 09/30/13
 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.



CLOSURE:
 SB Rte 57 TO BALL Rd OFF RAMP

DETOUR:
 SB Rte 57 TO LINCOLN Ave OFF
 TO WB LINCOLN Ave
 TO SB STATE COLLEGE Blvd.

TRAFFIC HANDLING PLAN (BALL ROAD DETOUR)

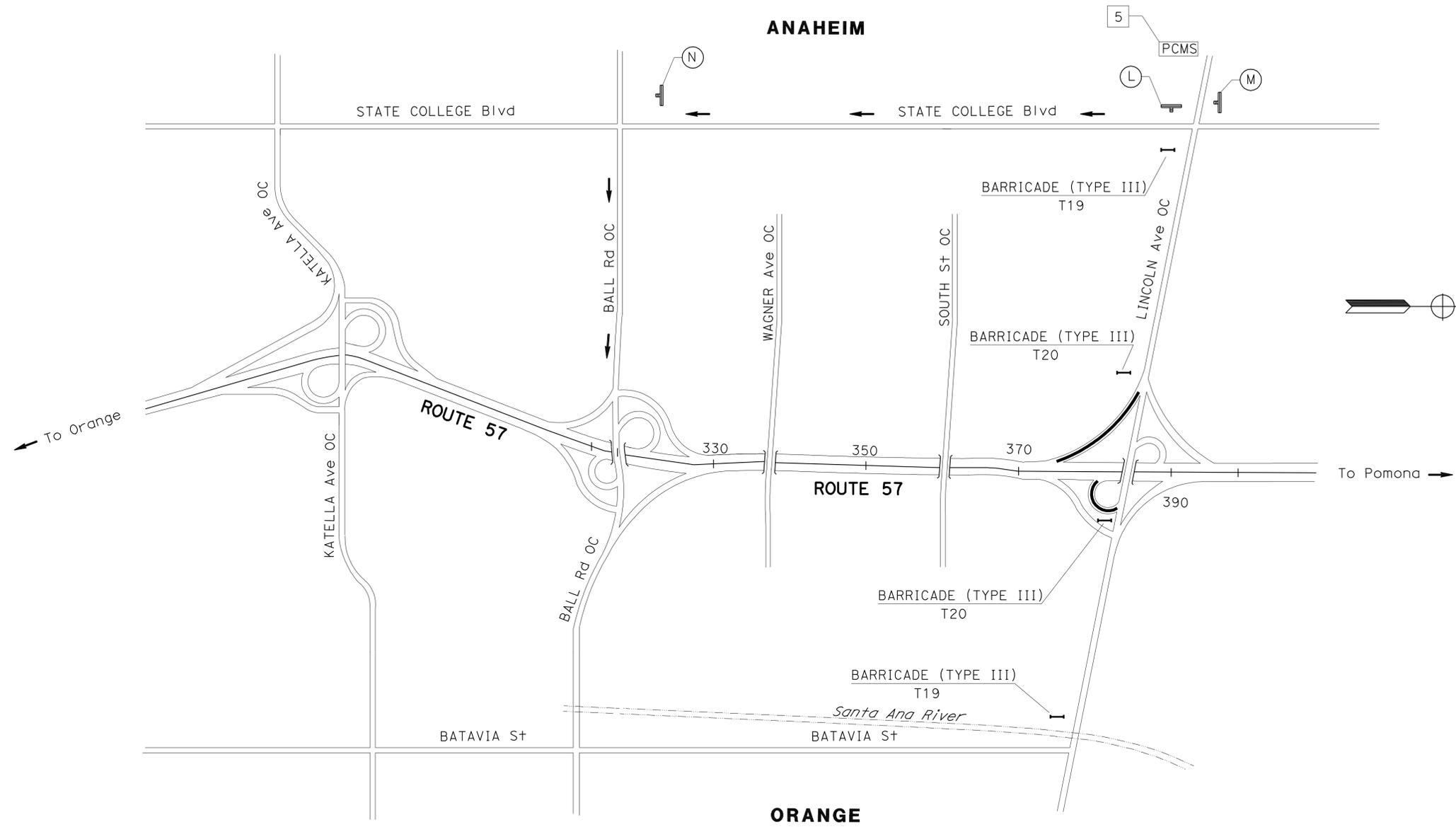
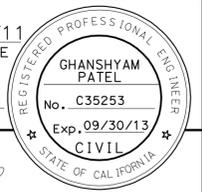
NO SCALE

APPROVED FOR TRAFFIC HANDLING WORK ONLY

TH-4

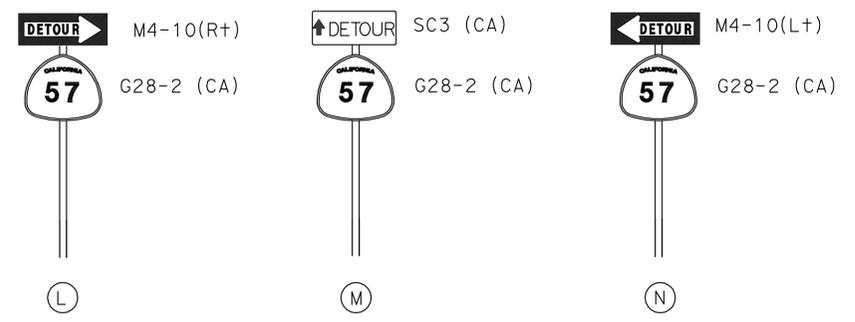
| | |
|--|-----------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN DIVISION |
| FUNCTIONAL SUPERVISOR | ANDREW OSHRIN |
| CALCULATED/DESIGNED BY | CHECKED BY |
| GHANSHYAM PATEL | RAJU VORA |
| REVISED BY | DATE REVISED |

| | | | | | |
|--|--------|-------------------|--------------------------|--------------------------------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4, 14.8 | 16 | 48 |
| | | G. Patel 11/15/11 | | REGISTERED CIVIL ENGINEER DATE | |
| | | 2-6-12 | | 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> | | | | | |



57 DETOUR
NEXT RIGHT

PCMS-5
5



CLOSURE:
EB LINCOLN Ave TO NB AND SB Rte 57

DETOUR:
EB LINCOLN Ave TO SB STATE COLLEGE Blvd
TO EB BALL Rd

TRAFFIC HANDLING PLAN (LINCOLN AVENUE DETOUR)

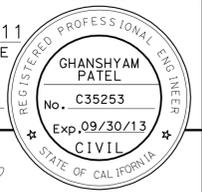
NO SCALE

TH-6

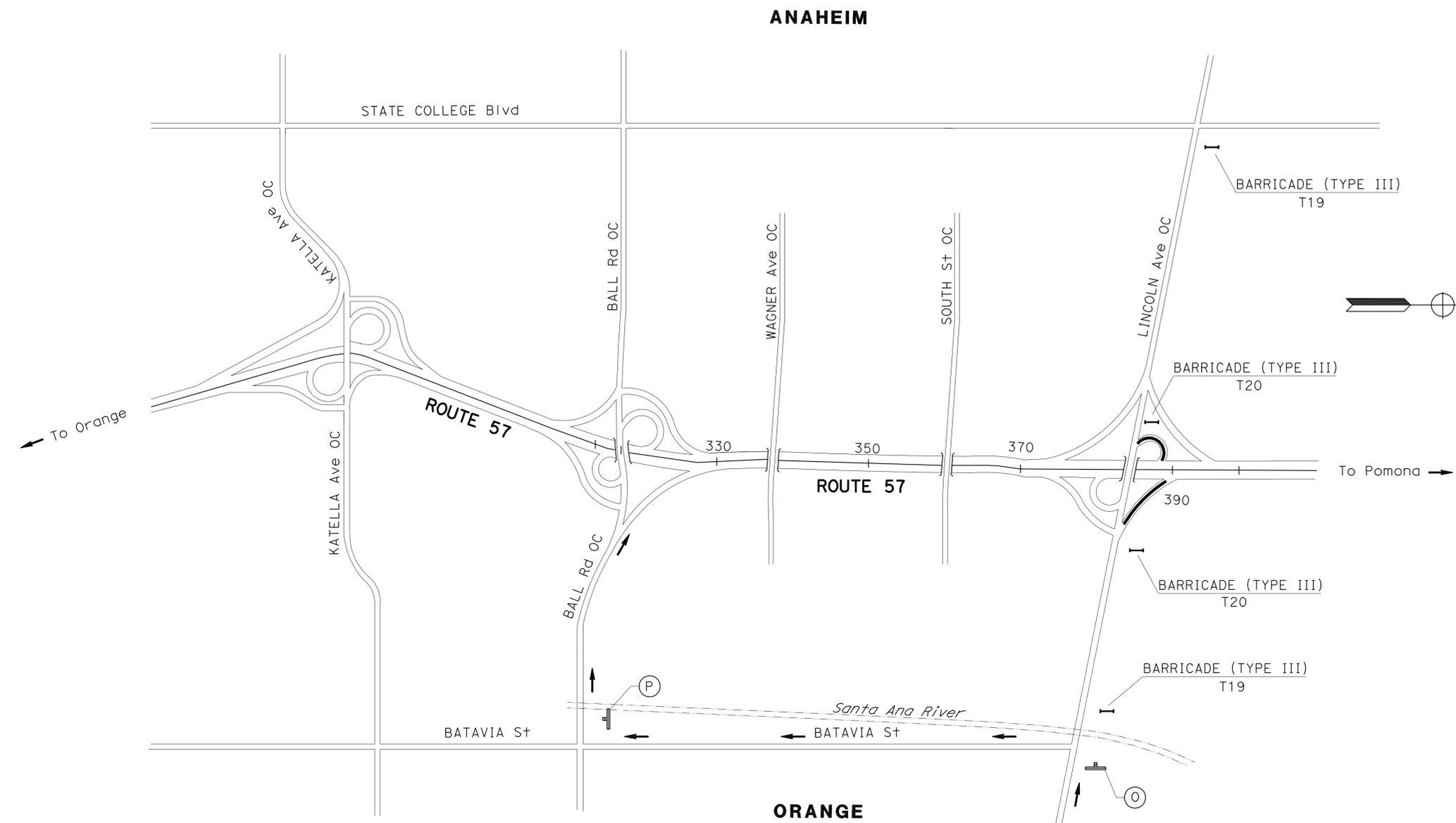
APPROVED FOR TRAFFIC HANDLING WORK ONLY

| | |
|--|-----------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN DIVISION |
| FUNCTIONAL SUPERVISOR | ANDREW OSHRIN |
| CALCULATED/DESIGNED BY | CHECKED BY |
| GHANSHYAM PATEL | RAJU VORA |
| REVISED BY | DATE REVISED |

| | | | | | |
|---|--------|---------------------------|--------------------------|---------------------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4, 14.8 | 17 | 48 |
| | | G. Patel | | 11/15/11 | |
| | | REGISTERED CIVIL ENGINEER | | DATE | |
| | | 2-6-12 | | 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. | | | | | |

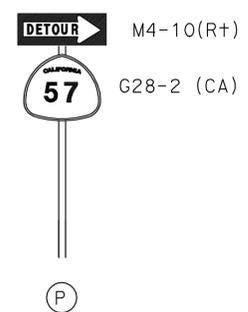
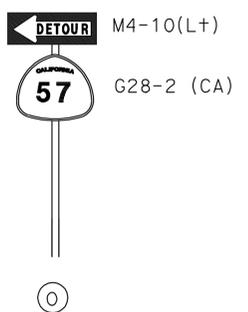


| | |
|--|-----------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN DIVISION |
| FUNCTIONAL SUPERVISOR | ANDREW OSHRIN |
| CALCULATED/DESIGNED BY | CHECKED BY |
| GHANSHYAM PATEL | RAJU VORA |
| REVISED BY | DATE |
| REVISED BY | DATE |



57 DETOUR
NEXT LEFT

PCMS-6
6



CLOSURE:
WB LINCOLN Ave TO NB AND SB Rte 57

DETOUR:
WB LINCOLN Ave TO SB BATAVIA St
TO WB BALL Rd

TRAFFIC HANDLING PLAN (LINCOLN AVENUE DETOUR)

NO SCALE

TH-7

APPROVED FOR TRAFFIC HANDLING WORK ONLY

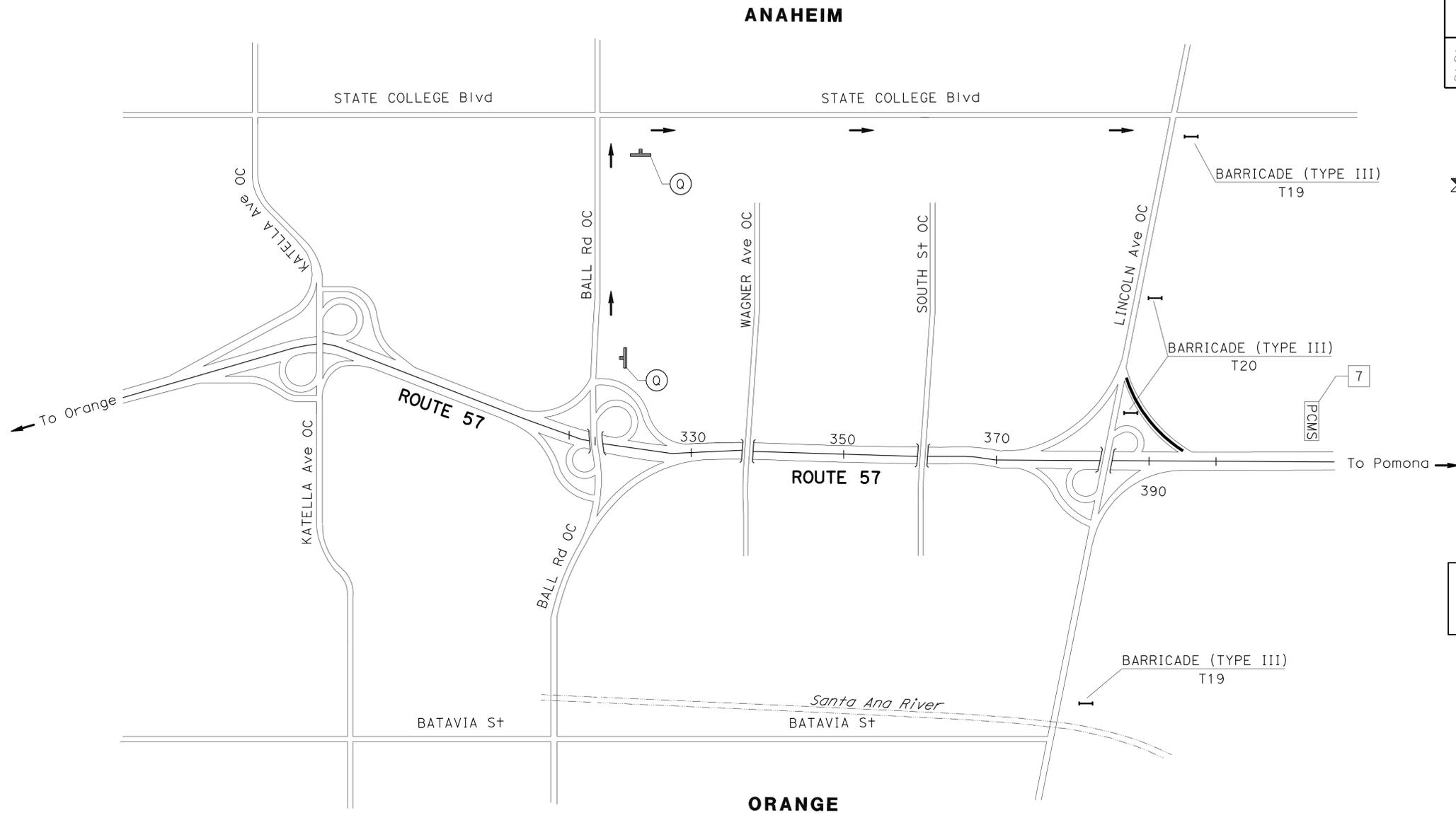
LAST REVISION DATE PLOTTED => 13-FEB-2012 10-26-11 TIME PLOTTED => 06:53

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4, 14.8 | 18 | 48 |

G. Patel 11/15/11
 REGISTERED CIVIL ENGINEER DATE
 2-6-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 GHANSHYAM PATEL
 No. C35253
 Exp. 09/30/13
 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.



LINCOLN CLOSED
USE NEXT EXIT

PCMS-7
7

CLOSURE:
SB Rte 57 OFF TO LINCOLN Ave

DETOUR:
SB Rte 57 OFF TO WB BALL Rd
TO NB STATE COLLEGE Blvd

**TRAFFIC HANDLING PLAN
(LINCOLN AVENUE DETOUR)**

NO SCALE

TH-8

| | |
|--|-----------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN DIVISION |
| FUNCTIONAL SUPERVISOR ANDREW OSHRIN | CHECKED BY |
| CALCULATED/DESIGNED BY | DESIGNED BY |
| GHANSHYAM PATEL | RAJU VORA |
| REVISOR | DATE |
| REVISOR | DATE |

LAST REVISION DATE PLOTTED => 13-FEB-2012
 10-26-11 TIME PLOTTED => 06:53

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4, 14.8 | 19 | 48 |

11/15/11
 REGISTERED CIVIL ENGINEER DATE
 2-6-12
 PLANS APPROVAL DATE

G. H. Patel
 REGISTERED PROFESSIONAL ENGINEER
 GHANSHYAM PATEL
 No. C35253
 Exp. 09/30/13
 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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (BALL ROAD)

| SHEET No. | SIGN SYMBOL | SIGN CODE | PANEL SIZE (in) | No. OF SIGNS | No. OF POST AND SIZE (in) | REMARKS |
|-----------|-------------|-------------|-----------------|--------------|---------------------------|----------------------|
| TH-1 | Ⓐ | M4-10 (R+) | 48" x 18" | 2 | 1 - 4" x 6" | |
| | | G20-2 (Mod) | 24" x 12" | 2 | 1 - 4" x 6" | |
| TH-1 | | T19 | 36" x 48" | 2 | | BARRICADE (TYPE III) |
| | | T20 | 36" x 36" | 2 | | |
| TH-2 | Ⓑ | M4-10 (L+) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G28-2 (CA) | | 1 | 1 - 4" x 6" | |
| TH-2 | Ⓒ | SC3 (CA) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G28-2 (CA) | | 1 | 1 - 4" x 6" | |
| TH-2 | Ⓓ | M4-10 (R+) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G28-2 (CA) | | 1 | 1 - 4" x 6" | |
| TH-2 | | T19 | 36" x 48" | 2 | | BARRICADE (TYPE III) |
| | | T20 | 36" x 36" | 2 | | |
| TH-3 | Ⓔ | M4-10 (R+) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G28-2 (CA) | | 1 | 1 - 4" x 6" | |
| TH-3 | Ⓖ | M4-10 (L+) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G28-2 (CA) | | 1 | 1 - 4" x 6" | |
| TH-3 | Ⓕ | SC3 (CA) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G28-2 (CA) | | 1 | 1 - 4" x 6" | |
| TH-3 | | T19 | 36" x 48" | 2 | | BARRICADE (TYPE III) |
| | | T20 | 36" x 36" | 2 | | |
| TH-4 | Ⓗ | M4-10 (R+) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G20-2 (Mod) | | 1 | 1 - 4" x 6" | |
| TH-4 | Ⓘ | M4-10 (L+) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G20-2 (Mod) | | 1 | 1 - 4" x 6" | |
| TH-4 | | T19 | 36" x 48" | 2 | | BARRICADE (TYPE III) |
| | | T20 | 36" x 36" | 2 | | |

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

| SHEET No. | SIGN SYMBOL | PCMS No. | FRAME | SIGN MESSAGE | No. OF SIGNS |
|-----------|-------------|----------|-----------|------------------|--------------|
| TH-1 | 1 | PCMS-1 | 1ST FRAME | BALL ROAD CLOSED | 1 |
| | | | 2ND FRAME | USE NEXT EXIT | |
| TH-2 | 2 | PCMS-2 | 1ST FRAME | 57 DETOUR | 1 |
| | | | 2ND FRAME | NEXT LEFT | |
| TH-3 | 3 | PCMS-3 | 1ST FRAME | 57 DETOUR | 1 |
| | | | 2ND FRAME | NEXT RIGHT | |
| TH-4 | 1 | PCMS-1 | 1ST FRAME | BALL ROAD CLOSED | 1 |
| | | | 2ND FRAME | USE NEXT EXIT | |

TRAFFIC HANDLING QUANTITIES THQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
 Ghanshyam Patel
 Raju Vora
 Andrew Oshrin



| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4, 14.8 | 20 | 48 |

11/15/11
 REGISTERED CIVIL ENGINEER DATE
 2-6-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 GHANSHYAM PATEL
 No. C35253
 Exp. 09/30/13
 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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (LINCOLN AVENUE)

| SHEET No. | SIGN SYMBOL | SIGN CODE | PANEL SIZE (in) | No. OF SIGNS | No. OF POST AND SIZE (in) | REMARKS |
|-----------|-------------|-------------|-----------------|--------------|---------------------------|----------------------|
| TH-5 | ⓐ | M4-10 (R+) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G20-2 (Mod) | 24" x 12" | 1 | 1 - 4" x 6" | |
| TH-5 | ⓑ | M4-10 (L+) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G20-2 (Mod) | 24" x 12" | 1 | 1 - 4" x 6" | |
| TH-5 | | T19 | 36" x 48" | 2 | | BARRICADE (TYPE III) |
| | | T20 | 36" x 36" | 2 | | |
| TH-6 | ⓒ | M4-10 (R+) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G28-2 (CA) | | 1 | 1 - 4" x 6" | |
| TH-6 | ⓓ | SC3 (CA) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G28-2 (CA) | | 1 | 1 - 4" x 6" | |
| TH-6 | ⓔ | M4-10 (L+) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G28-2 (CA) | | 1 | 1 - 4" x 6" | |
| TH-6 | | T19 | 36" x 48" | 2 | | BARRICADE (TYPE III) |
| | | T20 | 36" x 36" | 2 | | |
| TH-7 | ⓕ | M4-10 (L+) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G28-2 (CA) | | 1 | 1 - 4" x 6" | |
| TH-7 | ⓖ | M4-10 (R+) | 48" x 18" | 1 | 1 - 4" x 6" | |
| | | G28-2 (CA) | | 1 | 1 - 4" x 6" | |
| TH-7 | | T19 | 36" x 48" | 2 | | BARRICADE (TYPE III) |
| | | T20 | 36" x 36" | 2 | | |
| TH-8 | ⓗ | M4-10 (R+) | 48" x 18" | 2 | 1 - 4" x 6" | |
| | | G20-2 (Mod) | | 2 | 1 - 4" x 6" | |
| TH-8 | | T19 | 36" x 48" | 2 | | BARRICADE (TYPE III) |
| | | T20 | 36" x 36" | 2 | | |

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

| SHEET No. | SIGN SYMBOL | PCMS No. | FRAME | SIGN MESSAGE | No. OF SIGNS |
|-----------|-------------|----------|-----------|-----------------------|--------------|
| TH-5 | ④ | PCMS-4 | 1ST FRAME | LINCOLN AVENUE CLOSED | 1 |
| | | | 2ND FRAME | USE NEXT EXIT | |
| TH-6 | ⑤ | PCMS-5 | 1ST FRAME | 57 DETOUR | 1 |
| | | | 2ND FRAME | NEXT RIGHT | |
| TH-7 | ⑥ | PCMS-6 | 1ST FRAME | 57 DETOUR | 1 |
| | | | 2ND FRAME | NEXT LEFT | |
| TH-8 | ⑦ | PCMS-7 | 1ST FRAME | LINCOLN AVENUE CLOSED | 1 |
| | | | 2ND FRAME | USE NEXT EXIT | |

BARRICADES

| SHEET No. | TYPE III BARRICADE (EA) |
|-----------|-------------------------|
| TH-1 | 4 |
| TH-2 | 4 |
| TH-3 | 4 |
| TH-4 | 4 |
| TH-5 | 4 |
| TH-6 | 4 |
| TH-7 | 4 |
| TH-8 | 4 |
| TOTAL | 32 |

TRAFFIC HANDLING QUANTITIES THQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN DIVISION
 FUNCTIONAL SUPERVISOR ANDREW OSHRIN
 CALCULATED/DESIGNED BY CHECKED BY
 GHANSHYAM PATEL RAJU VORA
 REVISED BY DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION

FUNCTIONAL SUPERVISOR
 ANDREW OSHRIN

CALCULATED-DESIGNED BY
 CHECKED BY

GHANSHYAM PATEL
 RAJU VORA

REVISED BY
 DATE REVISED

NOTES:

- SIGN CODES ARE MUTCD CODES UNLESS OTHERWISE NOTED.
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:

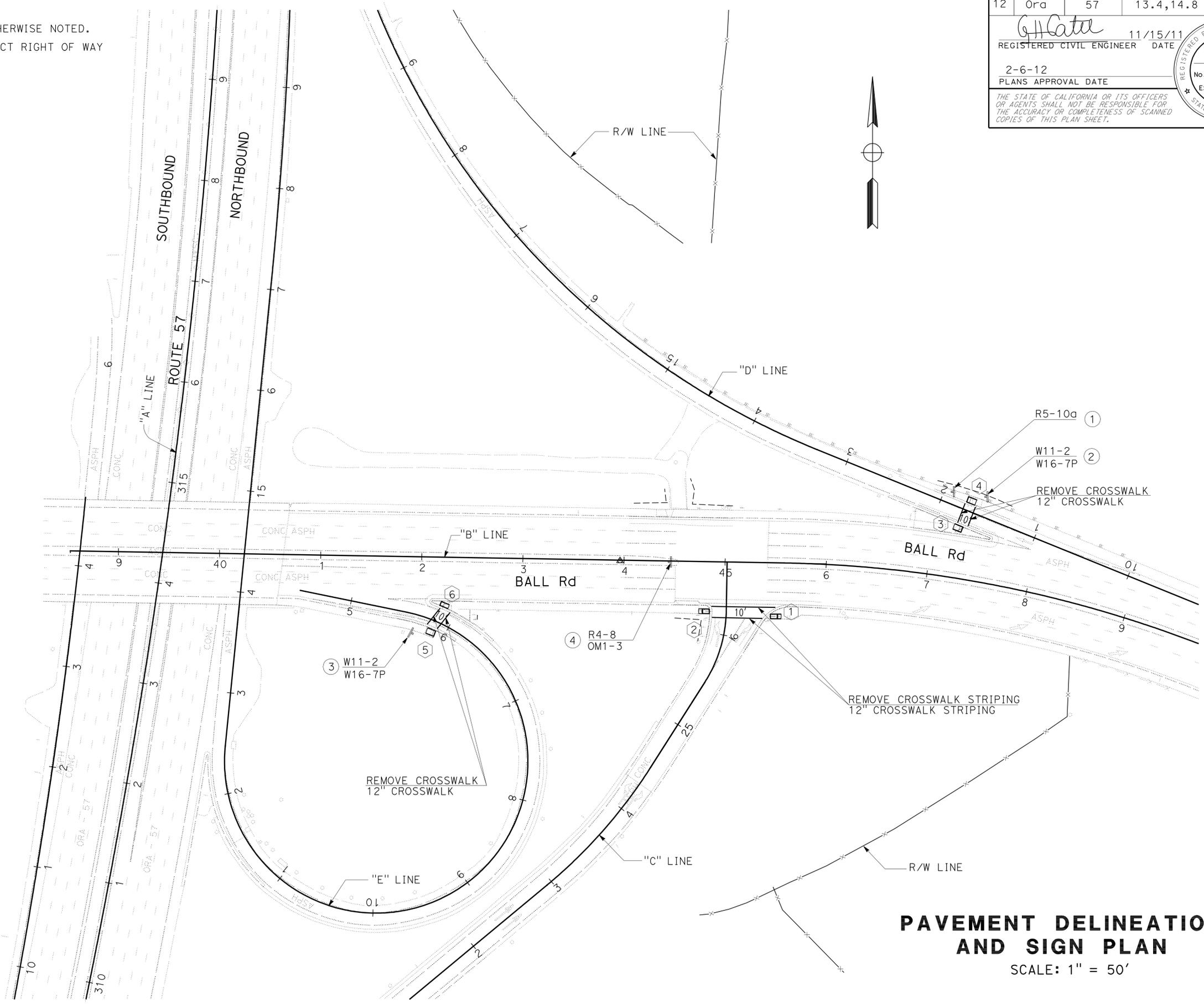
- (X) SIGN IDENTIFICATION NUMBER
- ⊥ ROADSIDE SIGN (1 POST)
- (X) CURB RAMP NUMBER

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 21 | 48 |

11/15/11
 REGISTERED CIVIL ENGINEER DATE
 2-6-12
 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
 GHANSHYAM PATEL
 No. C35253
 Exp. 09/30/13
 CIVIL
 STATE OF CALIFORNIA



PAVEMENT DELINEATION AND SIGN PLAN
 SCALE: 1" = 50'

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION

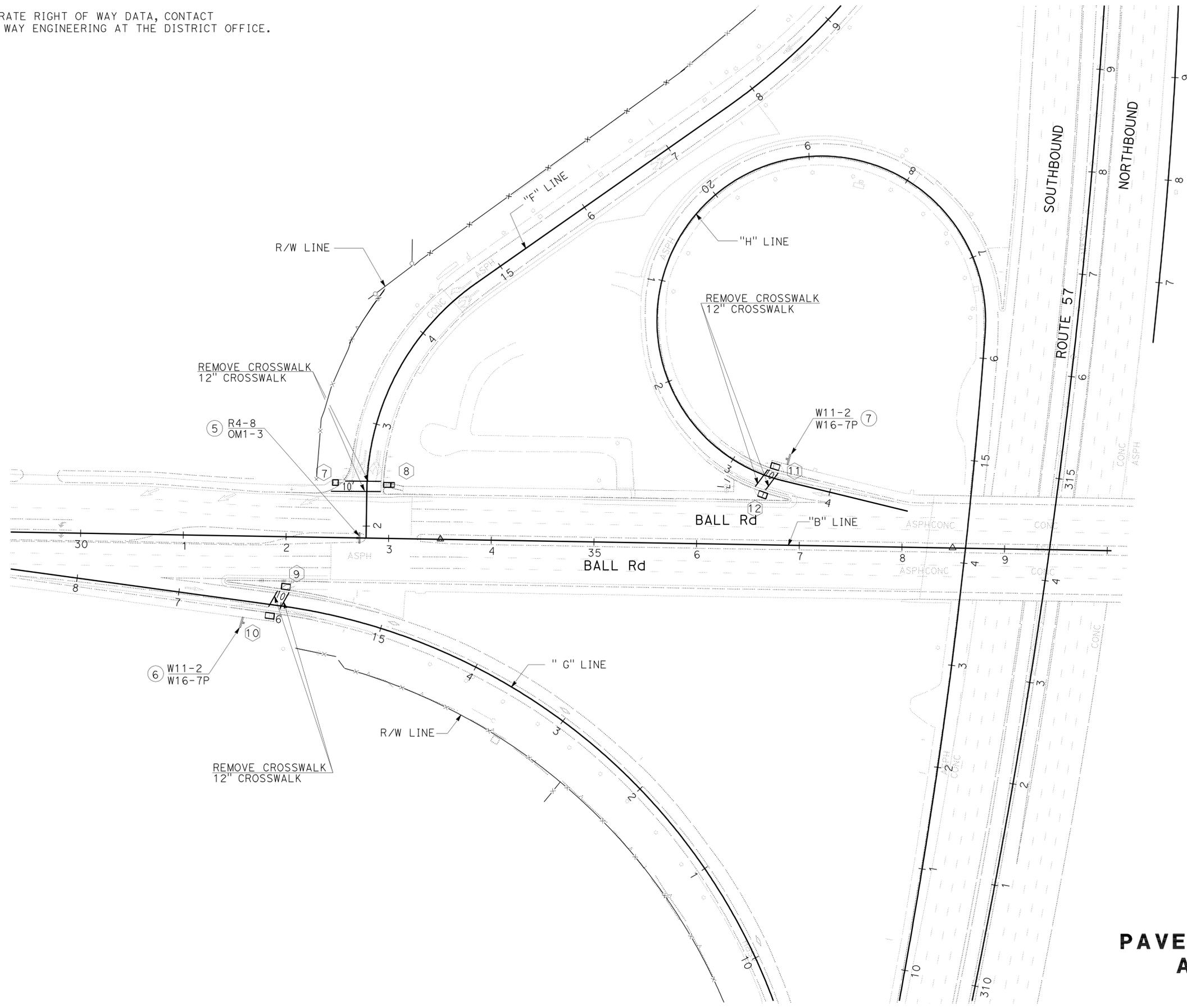
FUNCTIONAL SUPERVISOR
 ANDREW OSHRIN

CALCULATED/DESIGNED BY
 CHECKED BY

GHANSHYAM PATEL
 RAJU VORA

REVISED BY
 DATE REVISED

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



| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4, 14.8 | 22 | 48 |

G. Patel 11/15/11
 REGISTERED CIVIL ENGINEER DATE
 2-6-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 GHANSHYAM PATEL
 No. C35253
 Exp. 09/30/13
 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.



**PAVEMENT DELINEATION
 AND SIGN PLAN**
 SCALE: 1" = 50'

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION

| | | |
|--|---|------------------------------|
| FUNCTIONAL SUPERVISOR ANDREW OSHRIN | CALCULATED/DESIGNED BY GHANSHYAM PATEL | REVISOR GHANSHYAM PATEL |
| | CHECKED BY RAJU VORA | DATE REVISOR DATE REVISOR |

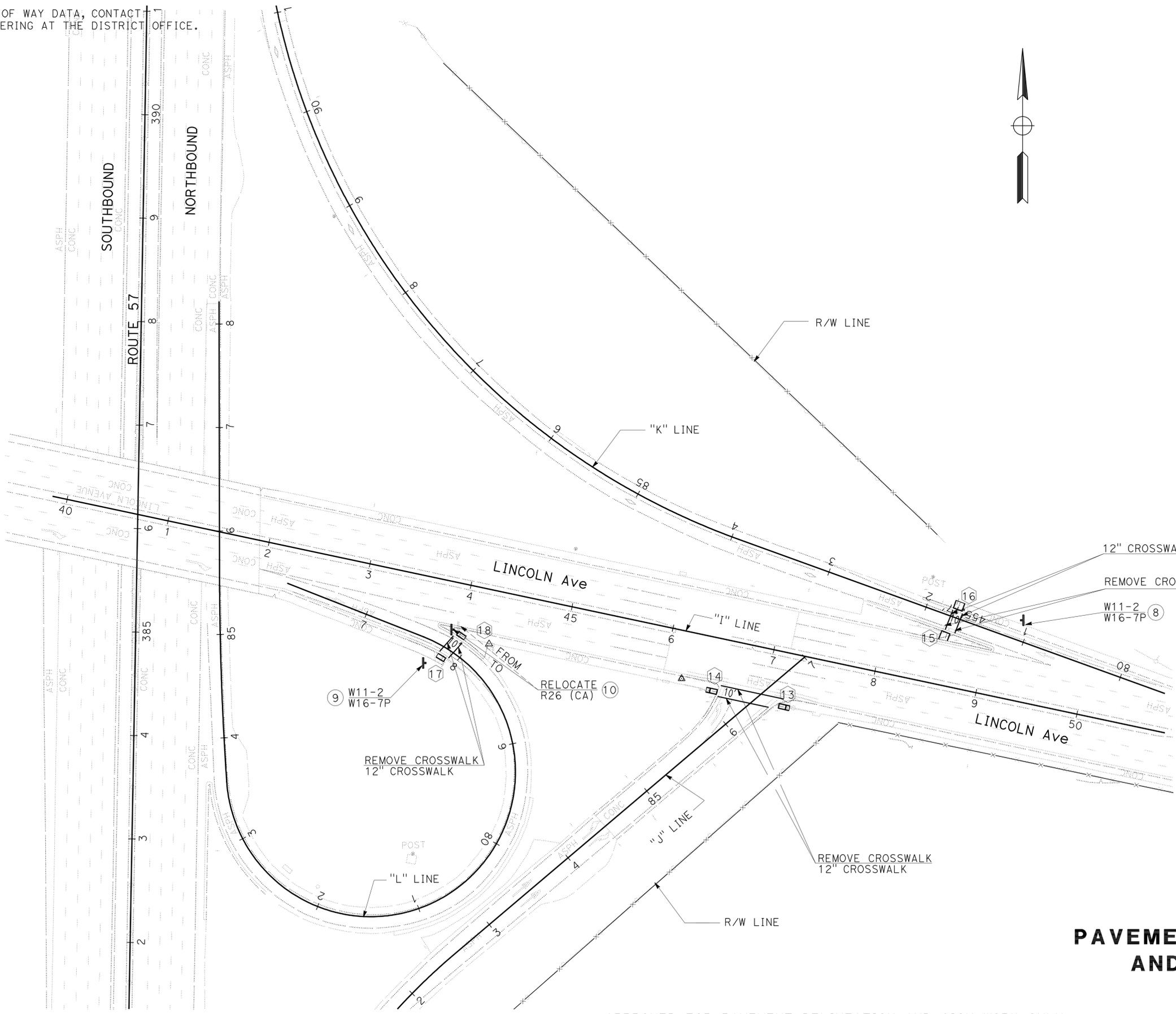
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 23 | 48 |

11/15/11
 REGISTERED CIVIL ENGINEER DATE
 2-6-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 GHANSHYAM PATEL
 No. C35253
 Exp. 09/30/13
 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.



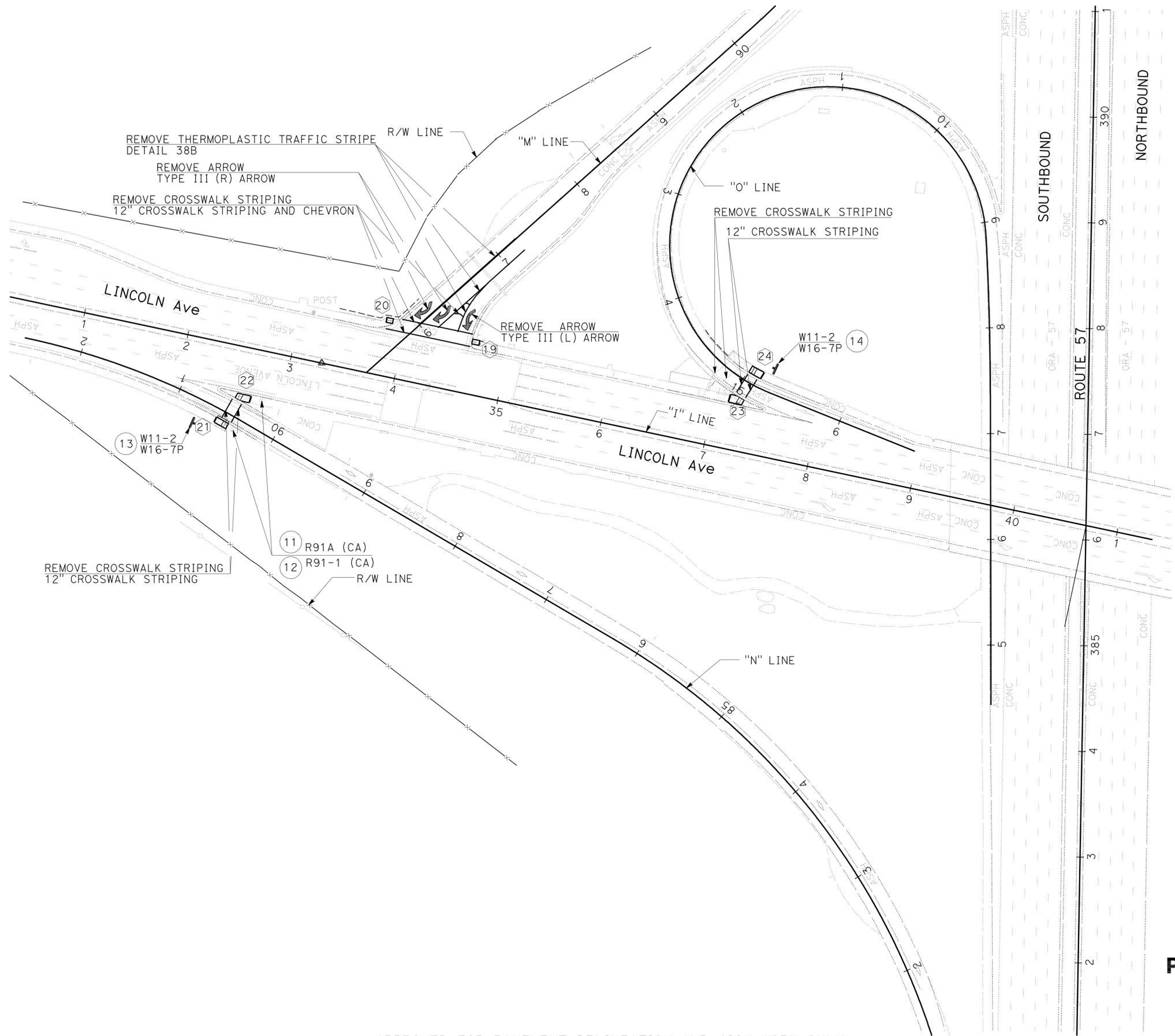
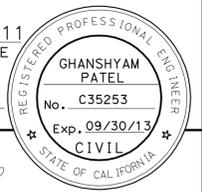
**PAVEMENT DELINEATION
 AND SIGN PLAN**

SCALE: 1" = 50'

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PD-3

| | | | | | |
|--|--------|--------------------------------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 24 | 48 |
| | | G. Patel 11/15/11 | | | |
| | | REGISTERED CIVIL ENGINEER DATE | | | |
| | | 2-6-12 | | | |
| | | 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> | | | | | |



| | |
|--|-----------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN DIVISION |
| Caltrans | |
| FUNCTIONAL SUPERVISOR | ANDREW OSHRIN |
| CALCULATED/DESIGNED BY | CHECKED BY |
| GHANSHYAM PATEL | RAJU VORA |
| REVISED BY | DATE REVISED |

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1" = 50'

PD-4

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 25 | 48 |

11/15/11
 REGISTERED CIVIL ENGINEER DATE
 2-6-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 GHANSHYAM PATEL
 No. C35253
 Exp. 09/30/13
 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.

PAVEMENT DELINEATION QUANTITIES

| SHEET No. | CURB No. | STATION | REMOVE THERMOPLASTIC PAVEMENT MARKING | THERMOPLASTIC PAVEMENT MARKING | | | | REMOVE THERMOPLASTIC TRAFFIC STRIPE | 8" THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE) DETAIL 38B | PAVEMENT MARKER (RETROREFLECTIVE) TYPE G | REMOVE PAVEMENT MARKER | LOCATION |
|-----------|----------------------------|----------------------------------|---------------------------------------|--------------------------------|--------------|--------------|-----|-------------------------------------|--|--|--|----------|
| | | | | 12" CROSSWALK AND CHEVRON | ARROWS | | | | | | | |
| | | | | | TYPE III (R) | TYPE III (L) | | | | | | |
| SOFT | SOFT | SOFT | SOFT | LF | LF | EA | EA | | | | | |
| PD-1 | ① | "C" Sta 26+75.22 TO Sta 26+81.22 | 126 | 126 | | | | | | | NB Rte 57 OFF TO BALL Rd | |
| | ② | "C" Sta 26+77.43 TO Sta 26+83.43 | | | | | | | | | | |
| | ③ | "D" Sta 11+62.14 TO Sta 11+75.14 | 41 | 41 | | | | | | | NB Rte 57 ON FROM WB BALL Rd | |
| | ④ | "D" Sta 11+62.14 TO Sta 11+75.14 | | | | | | | | | | |
| | ⑤ | "E" Sta 5+76.20 TO Sta 5+89.20 | 41 | 41 | | | | | | | NB Rte 57 ON FROM EB BALL Rd | |
| | ⑥ | "E" Sta 5+76.20 TO Sta 5+89.20 | | | | | | | | | | |
| PD-2 | ⑦ | "F" Sta 12+31.51 TO Sta 12+34.40 | 100 | 100 | | | | | | | SB Rte 57 OFF TO BALL Rd | |
| | ⑧ | "F" Sta 12+31.51 TO Sta 12+34.51 | | | | | | | | | | |
| | ⑨ | "G" Sta 15+95.10 TO Sta 16+8.10 | 42 | 42 | | | | | | | SB Rte 57 ON FROM EB BALL Rd | |
| | ⑩ | "G" Sta 16+4.76 TO Sta 16+17.76 | | | | | | | | | | |
| | ⑪ | "H" Sta 23+38.16 TO Sta 23+51.16 | 42 | 42 | | | | | | | SB Rte 57 ON FROM WB BALL Rd | |
| | ⑫ | "H" Sta 23+35.06 TO Sta 23+44.06 | | | | | | | | | | |
| PD-3 | ⑬ | "J" Sta 86+34.12 TO Sta 86+40.12 | 126 | 126 | | | | | | | NB Rte 57 OFF TO LINCOLN Ave | |
| | ⑭ | "J" Sta 86+34.12 TO Sta 86+40.12 | | | | | | | | | | |
| | ⑮ | "K" Sta 81+66.95 TO Sta 81+79.95 | 42 | 42 | | | | | | | NB Rte 57 ON FROM WB LINCOLN Ave | |
| | ⑯ | "K" Sta 81+61.46 TO Sta 81+74.46 | | | | | | | | | | |
| | ⑰ | "L" Sta 77+88.50 TO Sta 78+1.50 | 42 | 42 | | | | | | | NB Rte 57 ON FROM EB LINCOLN Ave | |
| | ⑱ | "L" Sta 77+88.50 TO Sta 78+1.50 | | | | | | | | | | |
| PD-4 | ⑲ | "M" Sta 85+93.90 TO Sta 86+00 | 160 | 160 | | | | | | | SB Rte 57 OFF TO LINCOLN Ave | |
| | ⑳ | "M" Sta 85+94.35 TO Sta 86+00 | | | | | | | | | | |
| | ㉑ | "N" Sta 90+42.17 TO Sta 90+55.17 | 40 | 40 | | | | | | | SB Rte 57 ON FROM EB LINCOLN Ave | |
| | ㉒ | "N" Sta 90+42.17 TO Sta 90+55.17 | | | | | | | | | | |
| | ㉓ | "O" Sta 14+97.86 TO Sta 15+10.86 | | 48 | | | | | | | SB Rte 57 ON FROM WB LINCOLN Ave (NEW) | |
| | ㉔ | "O" Sta 15+1.04 TO Sta 15+14.04 | | | | | | | | | | |
| | | "O" Sta 14+74.82 TO Sta 14+83.82 | 48 | | | | | | | | SB Rte 57 ON FROM WB LINCOLN Ave (OLD) | |
| | | "O" Sta 14+80.43 TO Sta 14+89.43 | | | | | | | | | | |
| | "M" Sta 86+00 TO Sta 87+20 | 146 | 20 | 84 | 42 | 330 | 330 | 28 | 28 | SB Rte 57 OFF TO LINCOLN Ave | | |
| SUBTOTAL | | | 996 | 870 | 84 | 42 | 330 | 330 | 28 | 28 | | |
| TOTAL | | | 996 | 996 | | | | 330 | 330 | 28 | 28 | |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN DEVISION
 FUNCTIONAL SUPERVISOR: ANDREW OSHRIN
 CALCULATED/DESIGNED BY: RAJU VORA
 CHECKED BY:
 REVISIONS BY: GHANSHYAM PATEL
 DATE REVISION:

PAVEMENT DELINEATION AND SIGN QUANTITIES PDQ-1

LAST REVISION: DATE PLOTTED => 13-FEB-2012 TIME PLOTTED => 07:31

ROADSIDE SIGN QUANTITIES

| SHEET No. | STATION | SIGN No. | CODE | PANEL SIZE | REMOVE ROADSIDE SIGN PANEL | INSTALL ROADSIDE SIGN PANEL ON EXISTING POST | RELOCATE ROADSIDE SIGN | ROADSIDE SIGN ONE POST | NUMBER OF POST AND SIZE |
|-----------|--------------|----------|-------------------|------------------------|----------------------------|--|------------------------|------------------------|-------------------------|
| | | | | | EA | EA | EA | EA | EA |
| PD-1 | "D" 11+91.00 | ① | R5-10a | 36" x 30" | 1 | 1 | | | |
| PD-1 | "D" 11+70.00 | ② | W11-2 W16-7P | 48" x 48" 30" x 18" | | | | 1 | 1 - 4" X 4" |
| PD-1 | "E" 5+60.00 | ③ | W11-2 W16-7P | 48" x 48" 30" x 18" | | | | 1 | 1 - 4" X 4" |
| PD-1 | "B" 44+50.00 | ④ | R4-8 OM1-3 | 18" x 24" 18" x 18" | | | | 1 | 1 - 4" X 4" |
| PD-2 | "B" 32+70.00 | ⑤ | R4-8 OM1-3 | 18" x 24" 18" x 18" | | | | 1 | 1 - 4" X 4" |
| PD-2 | "G" 16+30.00 | ⑥ | W11-2 W16-7P | 48" x 48" 30" x 18" | | | | 1 | 1 - 4" X 4" |
| PD-2 | "H" 23+50.00 | ⑦ | W11-2 W16-7P | 48" x 48" 30" x 18" | | | | 1 | 1 - 4" X 4" |
| PD-3 | "K" 81+20.00 | ⑧ | W11-2 W16-7P | 48" x 48" 30" x 18" | | | | 1 | 1 - 4" X 4" |
| PD-3 | "L" 77+83.00 | ⑨ | W11-2 W16-7P | 48" x 48" 30" x 18" | | | | 1 | 1 - 4" X 4" |
| PD-3 | "L" 77+83.00 | ⑩ | R26(CA) | 12" x 18" | | | 1 | | |
| PD-4 | "N" 90+15.18 | ⑪ | R91a R91-1(CA) | 54" x 9" 54" x 60" | 1 1 | 1 1 | | | |
| PD-4 | "N" 90+15.18 | ⑫ | R91a R91-1(CA) | 54" x 9" 54" x 60" | 1 1 | 1 1 | | | |
| PD-4 | "N" 90+80.00 | ⑬ | W11-2 W16-7P | 48" x 48" 30" x 18" | | | | 1 | 1 - 4" X 4" |
| PD-4 | "O" 15+20.00 | ⑭ | W11-2 W16-7P | 48" x 48" 30" x 18" | | | | 1 | 1 - 4" X 4" |
| SUBTOTAL | | | | | 5 | 5 | 1 | | |
| TOTAL | | | | | 5 | 5 | 1 | 10 | |

| | | | | | |
|--|--------|-------|---|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 26 | 48 |
|  REGISTERED CIVIL ENGINEER DATE 11/15/11 | | |  | | |
| 2-6-12 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> | | | | | |

PAVEMENT DELINEATION AND SIGN QUANTITIES

PDQ-2



| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 27 | 48 |

11/15/11
 REGISTERED CIVIL ENGINEER DATE
 2-6-12
 PLANS APPROVAL DATE

G. H. Patel
 REGISTERED PROFESSIONAL ENGINEER
 GHANSHYAM PATEL
 No. C35253
 Exp. 09/30/13
 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.

MATERIAL SUMMARY-CONTRACTOR FURNISHED SIGNS

LEGEND
 BLK - BLACK
 W - WHITE
 R - RED

| SHEET No. | SIGN No. | SIGN CODE | PANEL SIZE X No. OF SIGN | SIGN AREA | SINGLE FACED | BACKGROUND | | LEGEND | | PROTECTIVE FILM | ROADSIDE SIGN |
|-----------|----------|------------|--------------------------|-----------|--------------|----------------|---------------------------|----------------|---------------------------|-----------------|--------------------------------|
| | | | | | | SHEETING COLOR | RETROREFLECTIVE ASTM TYPE | SHEETING COLOR | RETROREFLECTIVE ASTM TYPE | | SINGLE SHEET UNFRAMED ALUMINUM |
| | | | | SQFT | | | | | | | 0.063 INCH |
| | | | | | | | | | | | SQFT |
| PD-1 | 1 | R5-10a | 36" X 30" | 7.50 | X | W | III | BLK | III | X | 7.50 |
| PD-1 | 2 | W11-2 | 48" X 48" | 16.0 | X | Y | III | BLK | III | X | 16.0 |
| | | W16-7P | 30" X 18" | 3.75 | X | Y | III | BLK | III | X | 3.75 |
| PD-1 | 3 | W11-2 | 48" X 48" | 16.0 | X | Y | III | BLK | III | X | 16.0 |
| | | W16-7P | 30" X 18" | 3.75 | X | Y | III | BLK | III | X | 3.75 |
| PD-1 | 4 | R4-8 | 18" X 24" | 3.00 | X | W | III | BLK | III | X | 3.00 |
| | | OM1-3 | 18" X 18" | 2.25 | X | Y | III | BLK | III | X | 2.25 |
| PD-2 | 5 | R4-8 | 18" X 24" | 3.00 | X | W | III | BLK | III | X | 3.00 |
| | | OM1-3 | 18" X 18" | 2.25 | X | Y | III | BLK | III | X | 2.25 |
| PD-2 | 6 | W11-2 | 48" X 48" | 16.0 | X | Y | III | BLK | III | X | 16.0 |
| | | W16-7P | 30" X 18" | 3.75 | X | Y | III | BLK | III | X | 3.75 |
| PD-2 | 7 | W11-2 | 48" X 48" | 16.0 | X | Y | III | BLK | III | X | 16.0 |
| | | W16-7P | 30" X 18" | 3.75 | X | Y | III | BLK | III | X | 3.75 |
| PD-3 | 8 | W11-2 | 48" X 48" | 16.0 | X | Y | III | BLK | III | X | 16.0 |
| | | W16-7P | 30" X 18" | 3.75 | X | Y | III | BLK | III | X | 3.75 |
| PD-3 | 9 | W11-2 | 48" X 48" | 16.0 | X | Y | III | BLK | III | X | 16.0 |
| | | W16-7P | 30" X 18" | 3.75 | X | Y | III | BLK | III | X | 3.75 |
| PD-4 | 11 | R91a (CA) | 54" X 9" | 3.375 | X | W | III | BLK | III | X | 3.375 |
| | | R91-1 (CA) | 54" X 60" | 22.5 | X | W | III | BLK | III | X | 22.5 |
| PD-4 | 12 | R91a (CA) | 54" X 9" | 3.375 | X | W | III | BLK | III | X | 3.375 |
| | | R91-1 (CA) | 54" X 60" | 22.5 | X | W | III | BLK | III | X | 22.5 |
| PD-4 | 13 | W11-2 | 48" X 48" | 16.0 | X | Y | III | BLK | III | X | 16.0 |
| | | W16-7P | 30" X 18" | 3.75 | X | Y | III | BLK | III | X | 3.75 |
| PD-4 | 14 | W11-2 | 48" X 48" | 16.0 | X | Y | III | BLK | III | X | 16.0 |
| | | W16-7P | 30" X 18" | 3.75 | X | Y | III | BLK | III | X | 3.75 |
| E-1 | 3 | R9-3 | (24" X 18") X 8 | 24.0 | X | W | III | BLK | III | X | 24.0 |
| E-1 | 3 | R9-3A | (24" X 24") X 8 | 32.0 | X | W | III | R/BLK | III | X | 32.0 |
| E-2 | 3 | R9-3 | (24" X 18") X 8 | 24.0 | X | W | III | BLK | III | X | 24.0 |
| E-2 | 3 | R9-3A | (24" X 24") X 8 | 32.0 | X | W | III | R/BLK | III | X | 32.0 |
| E-3 | 1 | R9-3 | (24" X 18") X 2 | 6.0 | X | W | III | BLK | III | X | 6.00 |
| E-3 | 1 | R9-3A | (24" X 24") X 2 | 8.0 | X | W | III | R/BLK | III | X | 8.00 |
| E-4 | 3 | R9-3 | (24" X 18") X 2 | 6.0 | X | W | III | BLK | III | X | 6.00 |
| E-4 | 3 | R9-3A | (24" X 24") X 2 | 8.0 | X | W | III | R/BLK | III | X | 8.00 |
| TOTAL | | | | | | | | | | | 367.75 |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DESIGN DIVISION

FUNCTIONAL SUPERVISOR: ANDREW OSHRIN

GHANSHYAM PATEL
RAJU VORA

REVISOR: GHANSHYAM PATEL
DATE: 11/15/11

DESIGNED BY: []
CHECKED BY: []

REVISOR: []
DATE: []

PAVEMENT DELINEATION AND SIGN QUANTITIES

PDQ-3

ROADWAY QUANTITIES

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 28 | 48 |

G. Patel 11/15/11
 REGISTERED CIVIL ENGINEER DATE
 2-6-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 GHANSHYAM PATEL
 No. C35253
 Exp. 09/30/13
 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.

| SHEET No. | LOCATION | STATION | ROADWAY EXCAVATION | ROADWAY EXCAVATION (TYPE Y-1) AERIALY DEPOSITED LEAD | MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION) | | | CURB RAMP TYPE | CURB LENGTH | (N) | FLOWLINE (FL) | REMOVE CONCRETE | | | | | |
|-----------|----------|----------------------------------|--------------------|--|---|----------|-----------|----------------|-------------|-----|---------------|-----------------|------|------|------|------|----------|
| | | | CY | CY | CURB TYPE (A2-8) | DRIVEWAY | CURB RAMP | | | | | 4" PCC SIDEWALK | EA | FT | SQFT | CY | DRIVEWAY |
| L-1 | ① | "B" Sta 45+54.16 TO Sta 45+60.16 | | | 0.32 | | 1.5 | CASE F (Mod) | 5 | 12 | 198.56 | 0.32 | | 1.5 | | | |
| | ② | "B" Sta 44+73.10 TO Sta 44+79.10 | | | 0.32 | | 1.5 | CASE F (Mod) | 5 | 12 | 201.50 | 0.32 | | 1.5 | | | |
| | ③ | "D" Sta 11+62.14 TO Sta 11+75.14 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 195.81 | 0.90 | | 2.9 | | | |
| | ④ | "D" Sta 11+62.14 TO Sta 11+75.14 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 195.45 | 0.90 | | 2.9 | | | |
| | ⑤ | "E" Sta 5+76.20 TO Sta 5+89.20 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 207.28 | 0.90 | | 2.9 | | | |
| | ⑥ | "E" Sta 5+76.20 TO Sta 5+89.20 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 207.80 | 0.90 | | 2.9 | | | |
| L-2 | ⑦ | "B" Sta 32+47.87 TO Sta 32+53.87 | | | 0.32 | | 1.5 | CASE F (Mod) | 5 | 12 | 183.49 | 0.32 | | 1.5 | | | |
| | ⑧ | "B" Sta 33+00.00 TO Sta 33+11.00 | | | 0.32 | | 1.5 | CASE F (Mod) | 5 | 12 | 183.34 | 0.32 | | 1.5 | | | |
| | ⑨ | "G" Sta 15+95.10 TO Sta 16+8.10 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 180.28 | 0.90 | | 2.9 | | | |
| | ⑩ | "G" Sta 16+4.76 TO Sta 16+17.76 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 179.25 | 0.90 | | 2.9 | | | |
| | ⑪ | "H" Sta 23+38.16 TO Sta 23+51.16 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 199.19 | 0.90 | | 2.9 | | | |
| | ⑫ | "H" Sta 23+35.06 TO Sta 23+44.06 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 199.14 | 0.90 | | 2.9 | | | |
| L-3 | ⑬ | "J" Sta 86+34.12 TO Sta 86+40.12 | | | 0.32 | | 1.5 | CASE F (Mod) | 5 | 12 | 207.37 | 0.32 | | 1.5 | | | |
| | ⑭ | "J" Sta 86+34.12 TO Sta 86+40.12 | | | 0.32 | | 1.5 | CASE F (Mod) | 5 | 12 | 209.76 | 0.32 | | 1.5 | | | |
| | ⑮ | "K" Sta 81+66.95 TO Sta 81+79.95 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 202.95 | 0.90 | | 2.9 | | | |
| | ⑯ | "K" Sta 81+61.46 TO Sta 81+74.46 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 202.32 | 0.90 | | 2.9 | | | |
| | ⑰ | "L" Sta 77+88.50 TO Sta 78+1.50 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 217.66 | 0.90 | | 2.9 | | | |
| | ⑱ | "L" Sta 77+88.50 TO Sta 78+1.50 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 218.14 | 0.90 | | 2.9 | | | |
| L-4 | ⑲ | "I" Sta 34+61.70 TO Sta 34+70.70 | | | 0.32 | | 1.5 | CASE F (Mod) | 5 | 12 | 208.03 | 0.32 | | 1.5 | | | |
| | ⑳ | "I" Sta 33+77.00 TO Sta 33+84.90 | | | 0.32 | | 1.5 | CASE F (Mod) | 5 | 12 | 205.44 | 0.32 | | 1.5 | | | |
| | ㉑ | "N" Sta 90+42.17 TO Sta 90+55.17 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 200.66 | 0.90 | | 2.9 | | | |
| | ㉒ | "N" Sta 90+42.17 TO Sta 90+55.17 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 200.98 | 0.90 | | 2.9 | | | |
| | ㉓ | "O" Sta 14+97.86 TO Sta 15+10.86 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 216.87 | 0.90 | | | 1.1 | | |
| | ㉔ | "O" Sta 15+1.04 TO Sta 15+14.04 | | | 0.90 | | 2.9 | CASE C (Mod) | 13 | 15 | 215.92 | 0.90 | | | 1.3 | | |
| L-1 | ① | "B" Sta 44+32.06 TO Sta 44+76.26 | 2.0 | | 2.87 | 8.0 | | | | | 203.75 | 2.87 | 6.57 | | | | |
| | ② | "B" Sta 35+8.02 TO Sta 35+52.22 | 7.0 | 7.0 | 2.87 | 8.0 | | | | | 193.05 | 2.87 | 6.57 | | | | |
| L-1 | ① | "D" Sta 11+57.88 TO Sta 11+73.88 | | | | | 0.5 | | | | | | | | 0.5 | | |
| | ② | "B" Sta 40+74.94 TO Sta 40+79.94 | | | | | 0.5 | | | | | | | | 0.5 | | |
| L-2 | ③ | "H" Sta 24+68.06 TO Sta 24+79.06 | | | | | 1.1 | | | | | | | | 1.1 | | |
| | ④ | "B" Sta 38+00 TO Sta 38+5.00 | | | | | 0.5 | | | | | | | | 0.5 | | |
| L-4 | ⑤ | "O" Sta 14+77.61 TO Sta 14+94.68 | | | 1.1 | | 1.7 | | | | | 1.1 | | 1.7 | | | |
| SUBTOTAL | | | 9.0 | 7.0 | 23.8 | 16.0 | 58.4 | 4.3 | | | | 248 | 336 | 23.8 | 13.1 | 52.6 | 6.7 |
| TOTAL | | | 9.0 | 7.0 | 102.5 | | | | | | | 248 | 336 | 96.2 | | | |

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

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

| SHEET No. | LOCATION | TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6B) (EA) |
|-----------|----------------|--|
| L-1 | BALL ROAD | 2 |
| L-2 | BALL ROAD | 1 |
| L-4 | LINCOLN AVENUE | 2 |
| TOTAL | | 5 |

SUMMARY OF QUANTITIES

Q-1



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

| | | | | | |
|------|--------|---------------|--------------------------|-----------|--------------|
| Dist | COUNTY | LOCATION CODE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 29 | 48 |

01/24/12
REGISTERED ELEC. ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

JOANNE VO
No. E 16748
Exp 9/30/12
REGISTERED PROFESSIONAL ENGINEER ELECTRICAL STATE OF CALIFORNIA

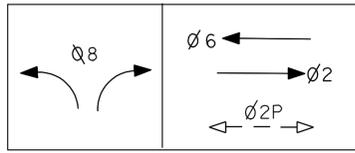
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES: (FOR THIS SHEET ONLY)

- RR 12-Pr#19 sic AND 12 SINGLEMODE foc.
- INSTALL PEDESTRIAN COUNT DOWN SIGNAL INDICATION.
- INSTALL TYPE I PEDESTRIAN BARRICADE. MOUNT SIGN R9-3A AND R9-3 DOUBLE-SIDED ON THE BARRICADE (SIGNS ARE FOR INFORMATION ONLY).
- RL MODEL 332 ASSEMBLY. RELOCATION SHALL LEAVE A MINIMUM 4 FEET CLEARANCE FOR WHEELCHAIR MOBILITY.
- AB EXISTING 1/2"C, RR 12-Pr#19 sic.
- RC ppb.
- EXISTING 2"C, RC 12-Pr#19 sic. ADD 12-Pr#19 SIC.

ABBREVIATIONS: (FOR SHEET E-1 TO E-4)

Pr PAIR
foc FIBER OPTIC CABLE

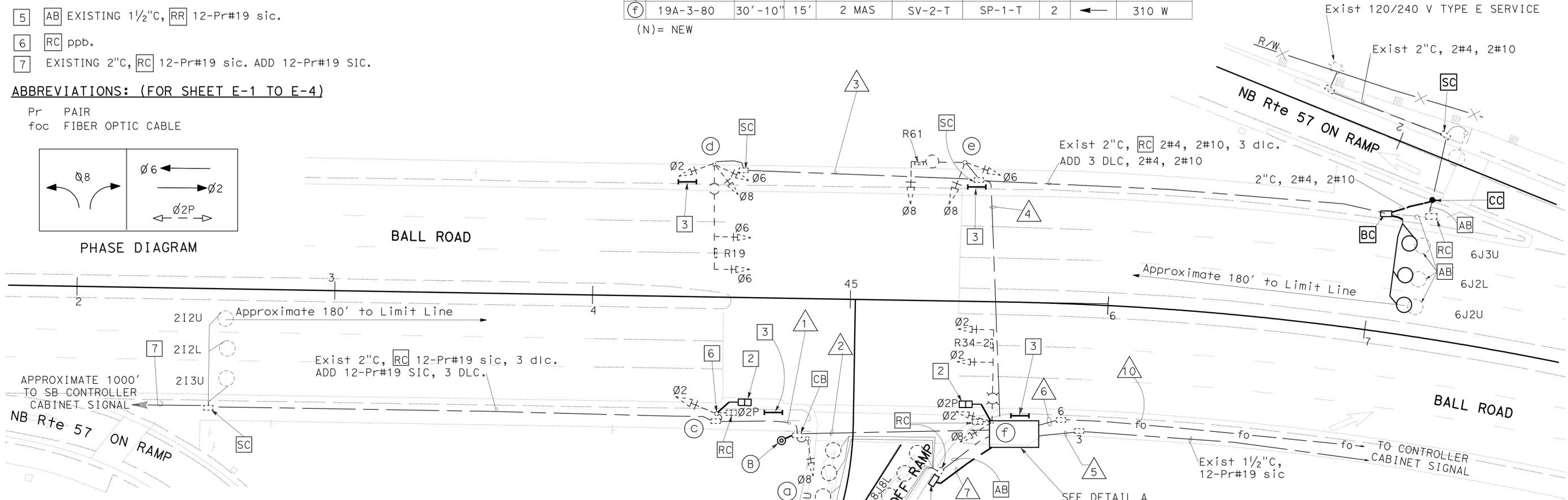


PHASE DIAGRAM

EXISTING POLE AND EQUIPMENT SCHEDULE

| No. | STANDARD | | | VEH SIG MTG | | PED SIGNAL | PPB | | HPS LUMINAIRE |
|-----|--------------|---------|-----|-------------|------------------|------------|-----|-------|---------------|
| | Type | SMA | LMA | Mast Arm | Pole | MTG | Ø | ARROW | |
| (a) | 1-A | - | - | | TV-1-T | - | - | - | - |
| (b) | PPB POST (N) | | | | | | 2 | ← | |
| (c) | 1-A | - | - | | TV-1-T | SP-1-T | | | |
| (d) | 19A-3-80 | 30' | 15' | 2 MAS | SV-2-T SV-1-T | - | - | - | 310 W |
| (e) | 17-3-80 | 20' | 15' | MAS | SV-2-T | - | - | - | 200 W |
| (f) | 19A-3-80 | 30'-10" | 15' | 2 MAS | SV-2-T | SP-1-T | 2 | ← | 310 W |

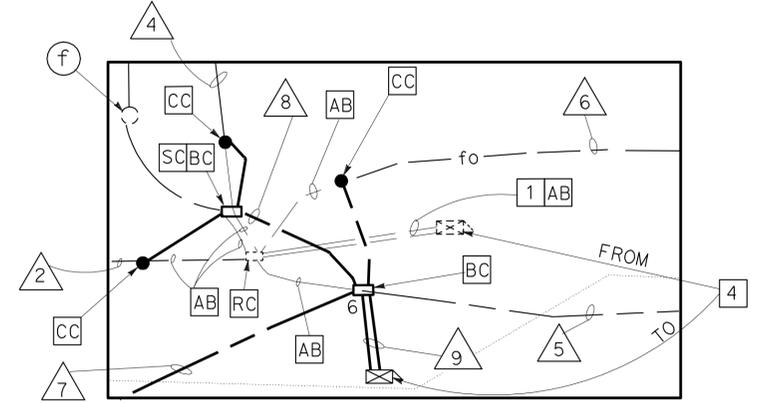
(N)= NEW



CONDUIT AND CONDUCTOR SCHEDULE

| CABLE TYPE | FUNCTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------|------------------|-----|-----|-----|---------|---------|-----|----|----|-------|-----|
| 12-Pr#19 | INTERCONNECT | 1 | 1 | | | 1RR | | | 1 | 1/1RR | |
| 12CSC | VEHICLE SIGNAL | 1 | 2 | 2 | 3 | | | | 7 | 7 | |
| 3CSC | PPB | | 1 | | | | | | 2 | 2 | |
| #10 | LUMINAIRE | | | 2 | 2 | | | | | | |
| DLC | Ø2 DETECTOR | 3 | 3 | | | | | | 3 | 3 | |
| | Ø6 DETECTOR | | | | 3 | | | | 3 | 3 | |
| | Ø8 DETECTOR | | | | | | | 2 | | 2 | |
| #4 | CONTROLLER POWER | | | | 2 | | | | 2 | 2 | |
| 12 | SINGLEMODE foc | | | | | | 1RR | | | 1RR | 1E |
| CONDUIT SIZE | | 2"E | 2"E | 2"E | 2 1/2"E | 1 1/2"E | 2"E | 2" | 4" | 2-3" | 2"E |

NOTE: RC Exist CONDUCTORS AND INSTALL ALL NEW CONDUCTORS, UNLESS OTHERWISE NOTED.
E= EXISTING, RR= REUSE EXISTING CONDUCTOR.



DETAIL A
NO SCALE

MODIFY SIGNAL (LOCATION 1)

SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

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

NOTES: (FOR THIS SHEET ONLY)

- 1 RC ppb. INSTALL PPB AT NEW HEIGHT, REFER TO ES-7A.
- 2 INSTALL PEDESTRIAN COUNT DOWN SIGNAL INDICATION.
- 3 INSTALL TYPE I PEDESTRIAN BARRICADE. MOUNT SIGN R9-3A AND R9-3 DOUBLE-SIDED ON THE BARRICADE. (SIGNS ARE FOR INFORMATION ONLY).
- 4 RL 120/240 V TYPE III-CF SERVICE EQUIPMENT ENCLOSURE:
RELOCATION SHALL LEAVE A MINIMUM 4 FEET CLEARANCE FOR WHEELCHAIR MOBILITY.
ADDRESS: 2619 BALL Rd. PP#: 19879D. ID#: 07-55-057-0-1400.
METER 1: MAIN: 2P, 240 V, 100 A CB. SIGNAL: 1P, 120 V, 30 A CB. LIGHTING: 1P, 240 V, 30 A CB. PEC: 1P, 240 V, 20 A CB. ADD IISNS: 1P, 120 V, 15 A CB. 30 A, 2PNO CONTACTOR.
METER 2: MAIN: 2P, 240 V, 100 A CB. RAMP: 2-1P, 120 V, 40 A CB. SPARE: 1P, 120 V, 30 A CB. PEC: 1P, 240 V, 20 A CB.

CONDUIT AND CONDUCTOR SCHEDULE

| AWG OR CABLE | CONDUCTOR RUN | 1 | 2 | 3 | 4 | 5 |
|--------------|------------------|-----|-----|------|-------|-----|
| 12-Pr#19 | INTERCONNECT | | | | 1 | 1 |
| 12CSC | VEHICLE SIGNAL | 3E | 2 | 4 | 6E/4 | |
| 3CSC | PPB | | 1 | 2 | 2 | |
| #10 | LUMINAIRE | 2E | 2 | 2 | | |
| | IISNS | 2E | 2 | 2 | | |
| DLC | Ø2 DETECTOR | 3E | | | 3E | |
| | Ø4 DETECTOR | | | 3 | 3 | |
| | Ø6 DETECTOR | | | 3 | 3 | |
| #6 | CONTROLLER POWER | | 2 | 2 | 2 | |
| CONDUIT SIZE | | 2"E | 2"E | 2½"E | 2-3"E | 2"E |

NOTE: RC Exist CONDUCTORS AND INSTALL ALL NEW CONDUCTORS, UNLESS OTHERWISE NOTED.
E= EXISTING

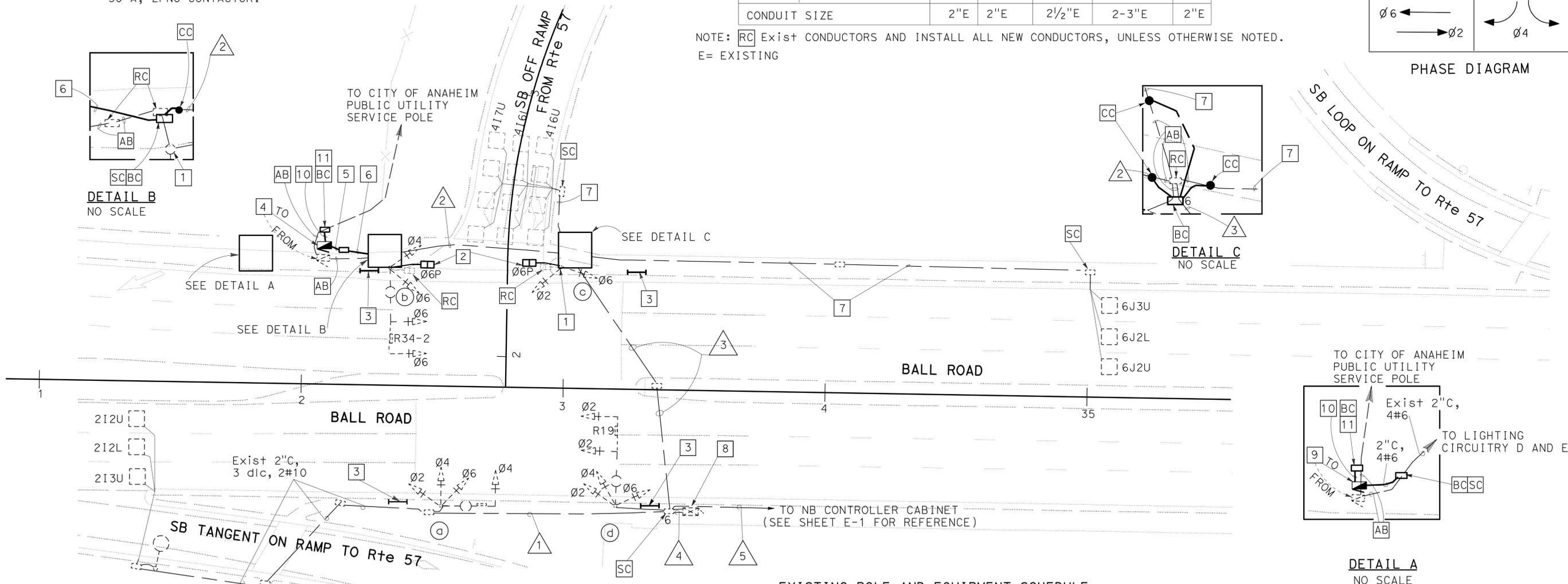
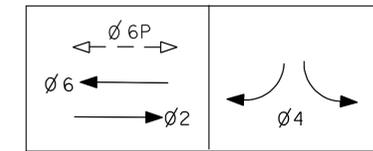
| | | | | | |
|------|--------|---------------|--------------------------|-----------|--------------|
| Dist | COUNTY | LOCATION CODE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 30 | 48 |

01/24/12
REGISTERED ELEC. ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

JOANNE VO
No. E. 16748
Exp 9/30/12
ELECTRICAL

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



NOTES: (CONTINUED)

- 5 3"C, 2#6 (CONTROLLER POWER), 2#10 (LIGHTING), 2#10 (IISNS).
- 6 2"C, 2#6 (CONTROLLER POWER), 2#10 (LIGHTING), 2#10 (IISNS).
- 7 EXISTING 2"C, RC 3 dlc. ADD 3 DLC.
- 8 EXISTING MODEL 170 CONTROLLER ASSEMBLY.
- 9 RL 240/480 V TYPE III-BF SERVICE EQUIPMENT ENCLOSURE:
ADDRESS: 2619 BALL Rd. PP#: 19879D.
METER: 10176789 ID#: 07-55-057-0-013.488.
MAIN: 2P, 480 V, 100 A CB.
LIGHTING: 2P, 480 V, 40 A CB: CIRCUIT D.
2P, 480 V, 40 A CB: CIRCUIT E.
PEC: 2P, 480 V, 15 A CB.
- 10 3"C (TYPE 3), 3#1/O.
- 11 SC BY OTHERS.

EXISTING POLE AND EQUIPMENT SCHEDULE

| No. | Type | STANDARD | | VEH SIG MTG | | PED SIGNAL MTG | PPB | | HPS LUMINAIRE | IISNS |
|-----|----------|----------|-----|-------------|------------------|----------------|-----|-------|---------------|-----------|
| | | SMA | LMA | Mast Arm | Pole | | Ø | ARROW | | |
| (a) | 17-3-80 | 20' | 12' | MAS | SV-3-T | - | - | - | 200 W | BALL Road |
| (b) | 19A-3-70 | 30' | 12' | 2 MAS | SV-2-T | SP-1-T | 6 | ← | 310 W | - |
| (c) | 1-A | - | - | - | TV-2-T | SP-1-T | 6 | → | - | - |
| (d) | 19-3-80 | 30' | 12' | 2 MAS | SV-2-T SV-1-T | - | - | - | 200 W | - |

MODIFY SIGNAL (LOCATION 2)

SCALE: 1" = 20'

APPROVED FOR ELECTRICAL WORK ONLY

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

EXISTING CONDUCTOR AND CONDUIT SCHEDULE

| CONDUCTOR TYPE | FUNCTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-------------------|------------------|-----|----|-----|-----|-----|-----|----|----|----|-----|-----|----|------|-----|------|
| 12CSC | VEHICLE SIGNALS | | - | - | 2 | 3 | 2 | - | 2 | - | - | - | 4 | 8 | 3 | - |
| 3CSC | PPB | | - | - | 1 | 1 | - | - | - | - | - | - | - | 2 | 1 | - |
| #6 | CONTROLLER POWER | | - | - | - | - | - | 4 | 4 | - | - | - | 4 | 2 | 2 | 2 |
| #8 | LUMINAIRE | | - | - | 2 | 2 | 2 | 2 | 2 | 2N | 2N | - | 2 | - | 2 | - |
| #10 | IISNS | | - | - | - | - | - | 2 | 2 | - | - | - | - | - | - | - |
| DLC | Ø2 DETECTOR | | - | 3N | 3N | 3N | - | - | - | - | - | - | - | 3N | 3N | - |
| | Ø6 DETECTOR | 3N | | - | - | - | - | - | - | 3N | - | - | 3N | 3N | - | - |
| | Ø8 DETECTOR | | | - | 1 | 2 | - | - | - | - | - | - | 2 | 2 | - | - |
| 12-Pr#19 | INTERCONNECT | | 1 | 1RR | 1RR | 1RR | - | - | - | - | - | - | - | - | - | 1RR |
| CITY SIC | INTERCONNECT | | - | - | - | - | - | - | - | - | 1RR | 1RR | - | - | 1RR | 1RR |
| 12 SINGLEMODE foc | | | 1 | 1RR | 1RR | 1RR | - | - | - | - | - | - | - | - | - | 1RR |
| CONDUIT SIZE | | 1½" | 2" | 2½" | 4" | 4" | 2½" | 3" | 3" | 2" | 2" | 2" | 3" | 2-4" | 4" | 2-3" |

NOTE: CONDUCTORS ARE EXISTING, UNLESS OTHERWISE NOTED.
N= NEW, RC EXISTING. RR= REUSE EXISTING CONDUCTOR.

NOTES: (FOR THIS SHEET ONLY)

- INSTALL TYPE I PEDESTRIAN BARRICADE. MOUNT SIGN R9-3A AND R9-3 DOUBLE-SIDED ON THE BARRICADE (SIGNS ARE FOR INFORMATION ONLY).
- INSTALL PEDESTRIAN COUNT DOWN SIGNAL INDICATION.
- RL TYPE I PEDESTRIAN BARRICADE WITH ALL EXISTING SIGNS.
- EXISTING TYPE I PEDESTRIAN BARRICADE.
- EXISTING 120/240 V IN TYPE III-BF SERVICE EQUIPMENT ENCLOSURE:
METER:
MAIN: 1-3P, 240 V, 100 A CB, TYPE V PEC.
SIGNAL: 2-1P, 120 V, 50 A CB.
IISNS: 1-1P, 120 V, 15 A CB.
LIGHTING: 1-2P, 240 V, 30 A CB.
- EXISTING MODEL 170 CONTROLLER ASSEMBLY IN TYPE 332 CABINET.
- EXISTING MODEL 2070 CONTROLLER ASSEMBLY IN TYPE 332A CABINET.
- AB 2"C, 2#8. RR CITY sic.
- AB 2"C. RR 12-Pr#19 sic, 12 SINGLEMODE foc.

| | | | | | |
|------|--------|---------------|--------------------------|-----------|--------------|
| Dist | COUNTY | LOCATION CODE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 31 | 48 |

01/24/12
REGISTERED ELEC. ENGINEER DATE

2-6-12
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.

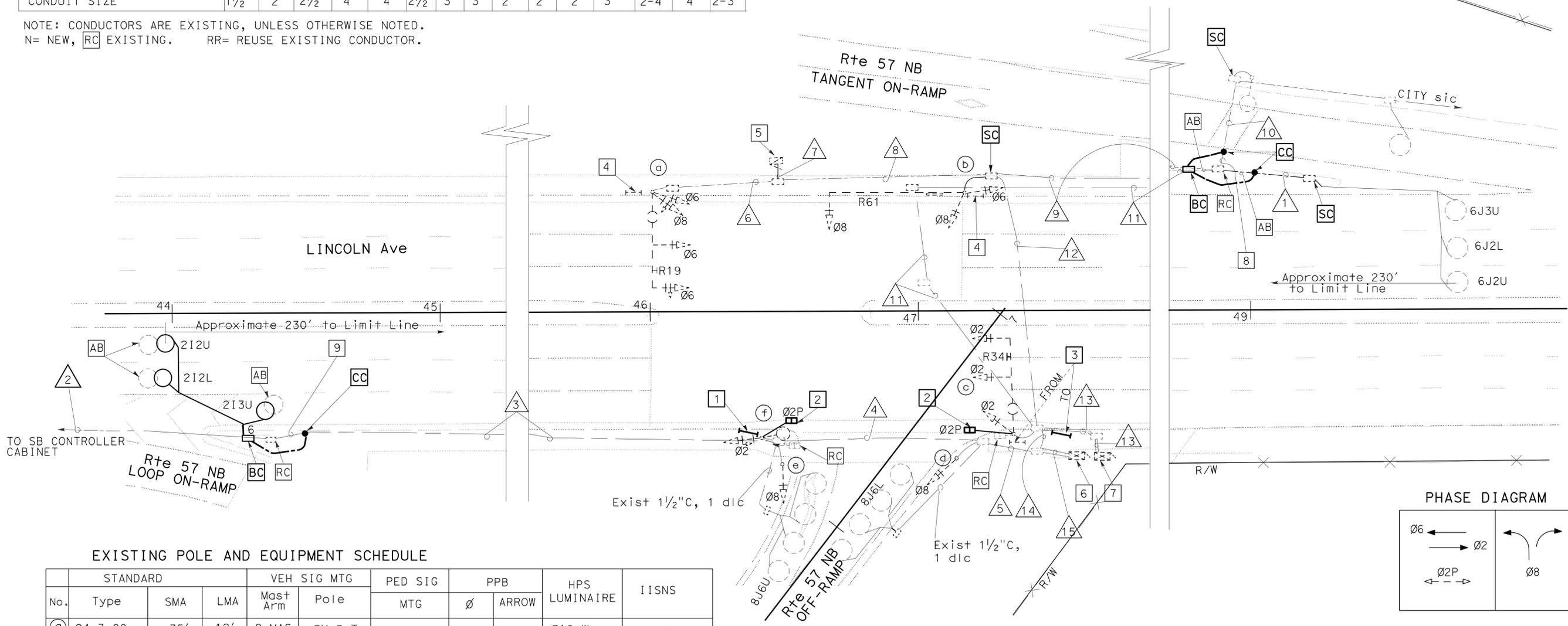
REGISTERED PROFESSIONAL ENGINEER
JOANNE VO
No. E. 16748
Exp. 9/30/12
ELECTRICAL
STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: SHAHRAM SHAHRIARI

REVISOR: JOANNE VO, VANESSA TRUONG

DATE REVISION: 01/24/12



EXISTING POLE AND EQUIPMENT SCHEDULE

| No. | STANDARD | | VEH SIG MTG | | PED SIG MTG | PPB | | HPS LUMINAIRE | IISNS |
|-----|----------|-----|-------------|----------|-------------|--------|----|---------------|-------------|
| | Type | SMA | LMA | Mast Arm | | Pole | Ø | | |
| (a) | 24-3-80 | 35' | 12' | 2 MAS | SV-2-T | - | - | 310 W | - |
| (b) | 27-3-80 | 45' | | MAS | SV-2-T | - | - | | Lincoln Ave |
| (c) | 24A-3-80 | 35' | 15' | 2 MAS | SV-1-T | SP-1-T | Ø2 | 310 W | - |
| (d) | 1-A | - | - | - | TV-1-T | - | - | - | - |
| (e) | 1-A | - | - | - | TV-1-T | - | - | - | - |
| (f) | 15 | - | 8' | - | SV-1-T | SP-1-T | Ø2 | 200 W | - |

MODIFY SIGNAL (LOCATION 3)
SCALE: 1" = 50'

E-3

APPROVED FOR ELECTRICAL WORK ONLY

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

| | | | | | |
|------|--------|---------------|--------------------------|-----------|--------------|
| Dist | COUNTY | LOCATION CODE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4, 14.8 | 32 | 48 |

01/24/12
REGISTERED ELEC. ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

JOANNE VO
No. E. 16748
Exp 9/30/12

REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
STATE OF CALIFORNIA

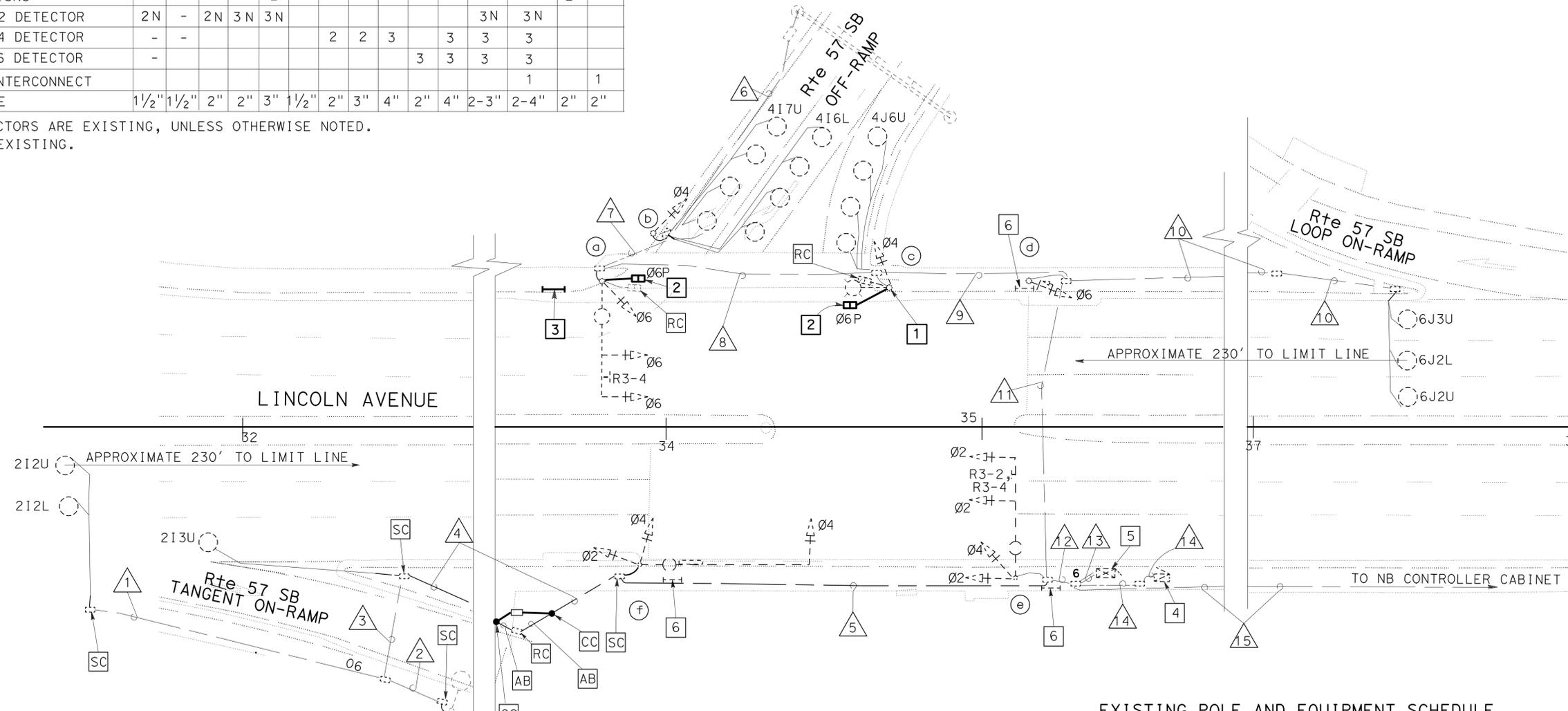
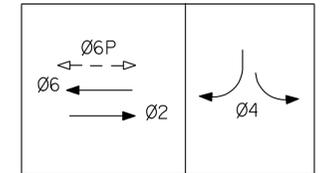
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

EXISTING CONDUCTOR AND CONDUIT SCHEDULE

| CONDUCTOR TYPE | FUNCTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|----------------|------------------|--------|--------|----|----|----|--------|----|----|----|----|----|------|------|----|----|
| 12CSC | VEH SIGNALS | - | - | | | 2 | | 1 | 2 | 3 | | 4 | 8 | 8 | | |
| 3CSC | PPB | - | - | | | | | | 1 | 2 | | 2 | 2 | 2 | | |
| #6 | CONTROLLER POWER | - | - | | | | | | | | | | | 2 | 2 | |
| #8 | LUMINAIRE | - | 2N | 2N | 2N | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | | 2 | |
| #10 | IISNS | - | - | | | 2 | | | | | | 2 | | | 2 | |
| DLC | Ø2 DETECTOR | 2N | - | 2N | 3N | 3N | | | | | | 3N | 3N | | | |
| | Ø4 DETECTOR | - | - | | | | | 2 | 2 | 3 | | 3 | 3 | 3 | | |
| | Ø6 DETECTOR | - | - | | | | | | | | 3 | 3 | 3 | 3 | | |
| 12-Pr#19 | INTERCONNECT | | | | | | | | | | | | 1 | | 1 | |
| CONDUIT SIZE | | 1 1/2" | 1 1/2" | 2" | 2" | 3" | 1 1/2" | 2" | 3" | 4" | 2" | 4" | 2-3" | 2-4" | 2" | 2" |

NOTE: CONDUCTORS ARE EXISTING, UNLESS OTHERWISE NOTED.
N= NEW, RC EXISTING.

PHASE DIAGRAM



EXISTING POLE AND EQUIPMENT SCHEDULE

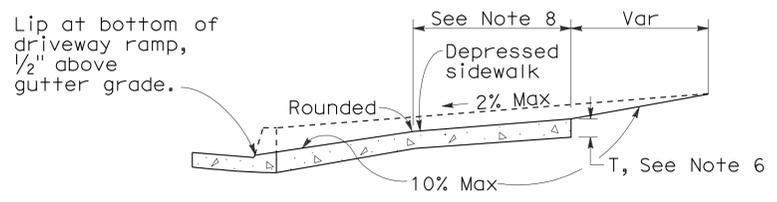
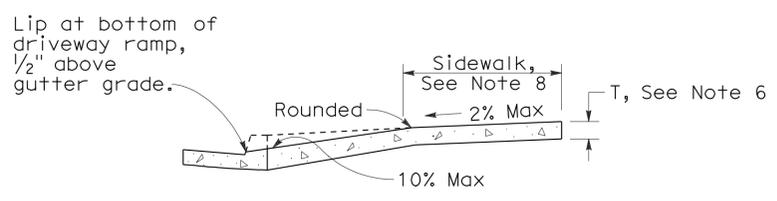
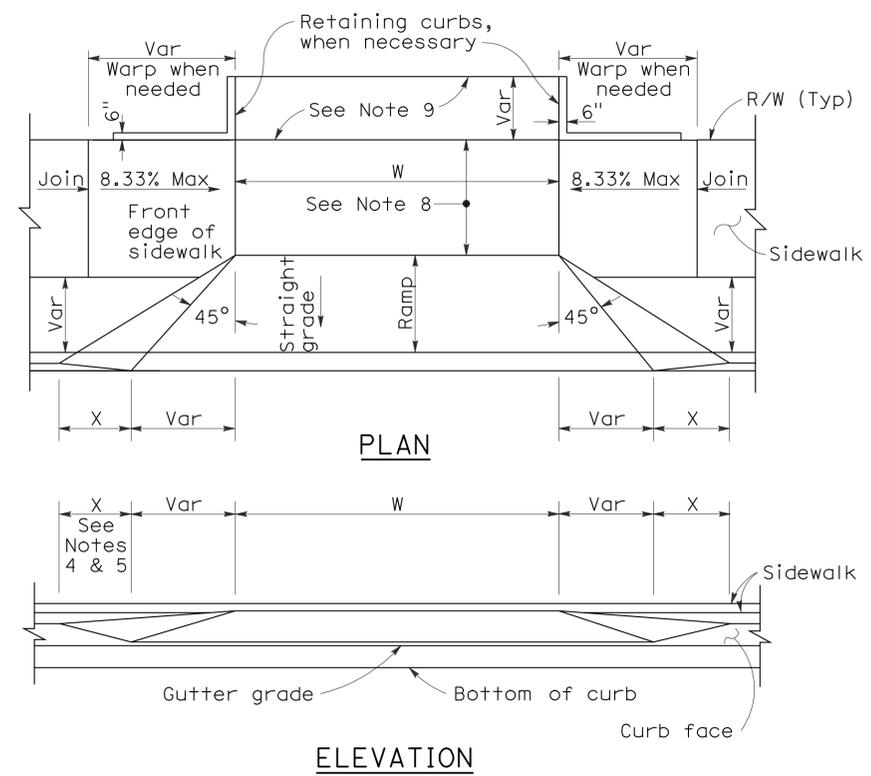
| No. | Type | STANDARD | | VEH SIG MTG | | PED SIG | PPB | | HPS LUMINAIRE | IISNS |
|-----|----------|----------|--------|-------------|--------|---------|-----|-------|---------------|-------------|
| | | SMA | LMA | Mast Arm | Pole | MTG | Ø | ARROW | | |
| (a) | 26A-3-80 | 45' | 15' | 2 MAS | SV-1-T | SP-1-T | Ø6 | → | 310 W | - |
| (b) | 1-A | - | - | - | TV-1-T | - | - | - | - | - |
| (c) | 15 | - | 7'-10" | - | SV-1-T | SP-1-T | Ø6 | ← | 200 W | - |
| (d) | 1-A | - | - | - | TV-1-T | - | - | - | - | - |
| (e) | 26A-3-80 | 45' | 15' | 2 MAS | SV-2-T | - | - | - | 310 W | - |
| (f) | 26A-3-80 | 45' | 15' | MAS | SV-2-T | - | - | - | 310 W | Lincoln Ave |

NOTES: (FOR THIS SHEET ONLY)

- RC ppb. INSTALL PPB AT NEW HEIGHT, REFER TO ES-7A.
- INSTALL PEDESTRIAN COUNT DOWN SIGNAL INDICATION.
- INSTALL TYPE I PEDESTRIAN BARRICADE. MOUNT SIGN R9-3A AND R9-3 DOUBLE-SIDED ON THE BARRICADE (SIGNS ARE FOR INFORMATION ONLY).
- EXISTING 120/240 V TYPE III-BF SERVICE EQUIPMENT ENCLOSURE:
MAIN: 1P, 120 V, 100 A CB.
SIGNAL: 1P, 120 V, 50 A CB.
LIGHTING: 30 A CB.
IISNS: 1P, 120 V, 15 A CB.
- EXISTING MODEL 2070 CONTROLLER ASSEMBLY.
- EXISTING TYPE I PEDESTRIAN BARRICADE AND SIGNS.

MODIFY SIGNAL (LOCATION 4)
SCALE: 1" = 20'

APPROVED FOR ELECTRICAL WORK ONLY



CASE A

Typical driveway, sidewalk not depressed

CASE B

Driveway with depressed sidewalk

SECTIONS

CURB QUANTITIES

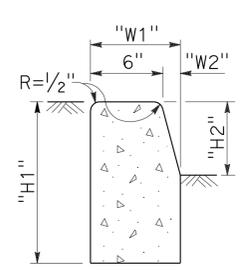
| TYPE | CUBIC YARDS PER LINEAR FOOT |
|------|-----------------------------|
| A1-6 | 0.02585 |
| A1-8 | 0.03084 |
| A2-6 | 0.05903 |
| A2-8 | 0.06379 |
| A3-6 | 0.01036 |
| A3-8 | 0.01435 |
| B1-4 | 0.02185 |
| B1-6 | 0.02930 |
| B2-4 | 0.05515 |
| B2-6 | 0.06171 |
| B3-4 | 0.00641 |
| B3-6 | 0.01074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

TABLE A

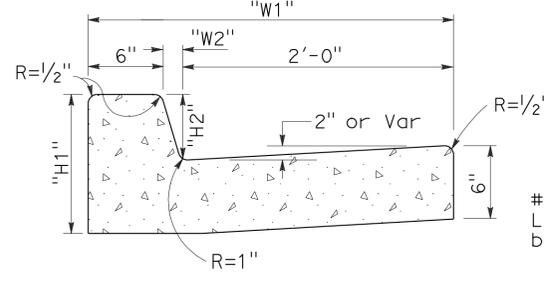
| CURB TYPE | DIMENSIONS | | | |
|-----------|------------|------|-----------|--------|
| | "H1" | "H2" | "W1" | "W2" |
| A1-6 | 1'-2" | 6" | 7 1/2" | 1 1/2" |
| A1-8 | 1'-4" | 8" | 8" | 2" |
| A2-6 | 1'-0" | 6" | 2'-7 1/2" | 1 1/2" |
| A2-8 | 1'-2" | 8" | 2'-8" | 2" |
| A3-6 | 6" | 5" | 7 1/4" | 1 1/4" |
| A3-8 | 8" | 7" | 7 3/4" | 1 3/4" |
| B1-4 | 1'-0" | 4" | 7 1/2" | 2 1/2" |
| B1-6 | 1'-2" | 6" | 9" | 4" |
| B2-4 | 10" | 4" | 2'-7 1/2" | 2 1/2" |
| B2-6 | 1'-0" | 6" | 2'-9" | 4" |
| B3-4 | 4" | 3" | 7" | 2" |
| B3-6 | 6" | 5" | 8 1/2" | 3 1/2" |
| D-4 | 10" | 4" | 1'-6" | 1'-1" |
| D-6 | 1'-0" | 6" | 2'-2" | 1'-8" |

To accompany plans dated 2-6-12

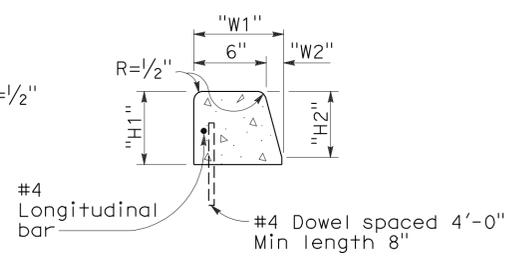
DRIVEWAYS



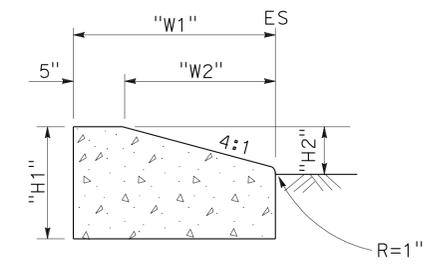
TYPE A1 CURBS
See Table A



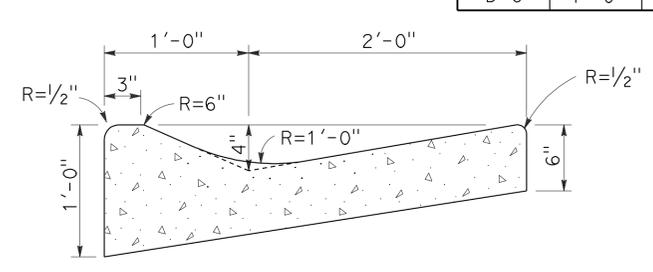
TYPE A2 CURBS
See Table A



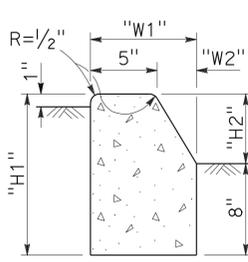
TYPE A3 CURBS
Superimposed on existing pavement
See Table A



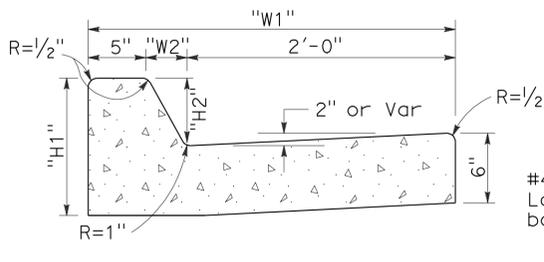
TYPE D CURBS
See Table A



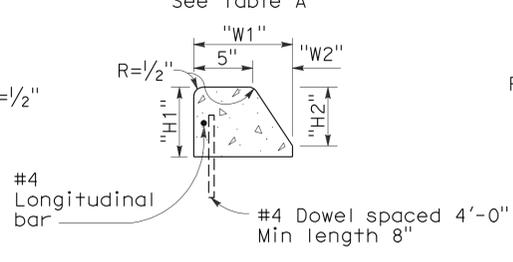
TYPE E CURB



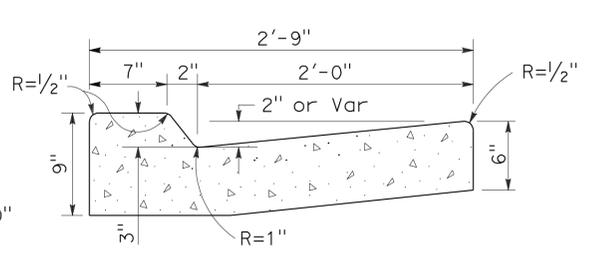
TYPE B1 CURBS
See Table A



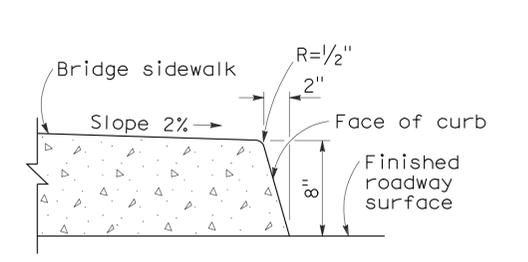
TYPE B2 CURBS
See Table A



TYPE B3 CURBS
Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB
On Bridges

NOTES:

- Case A driveway section typically applies.
- Use Case B driveway section when ramp slopes would exceed 10% in Case A.
- Use Case B driveway section when sidewalk cross slope would exceed 2% in Case A.
- X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
- X is a variable when sidewalk is located where wheelchairs may traverse the surface. Slopes shall not exceed 8.33%.
- Sidewalk and ramp thickness "T" at driveway shall be 4" for residential and 6" for commercial.
- Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
- Minimum width of clear passageway for sidewalk shall be 4'-0".
- Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
- Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

CURBS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

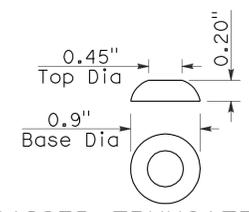
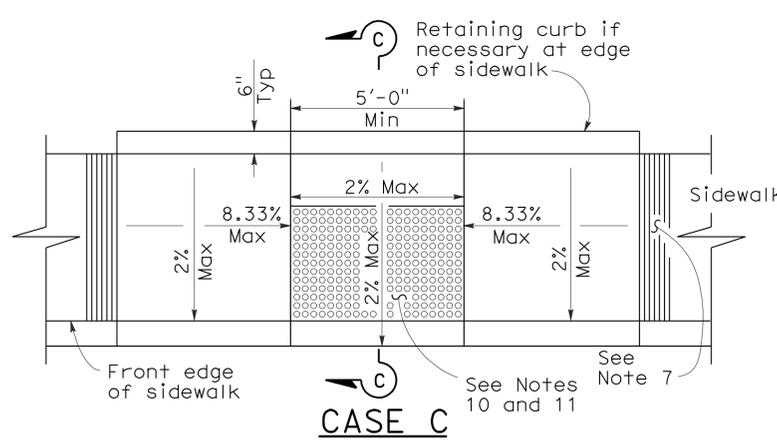
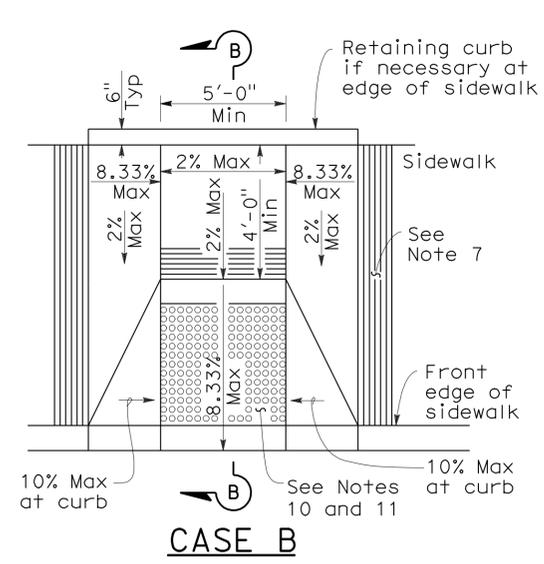
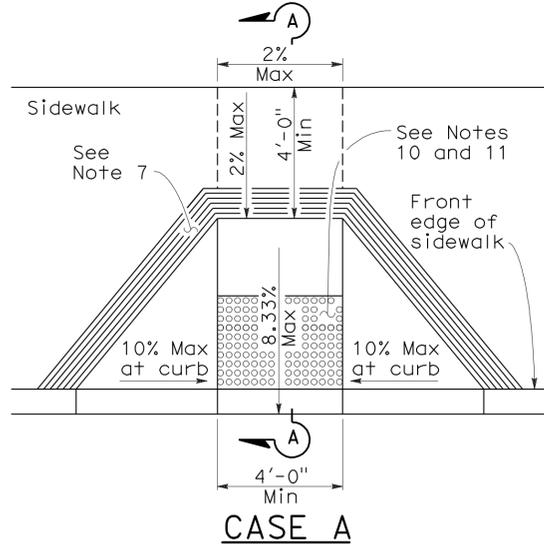
RSP A87A DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN A87A
DATED MAY 1, 2006 - PAGE 113 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A87A

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 57 | 13.4,14.8 | 34 | 48 |

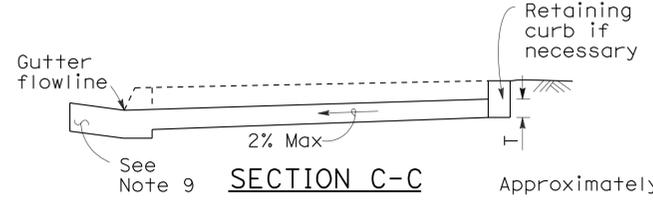
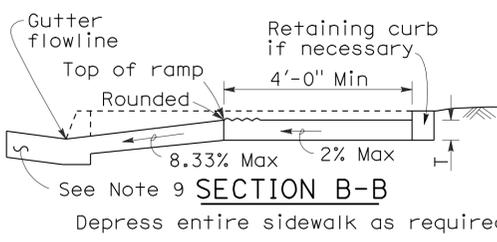
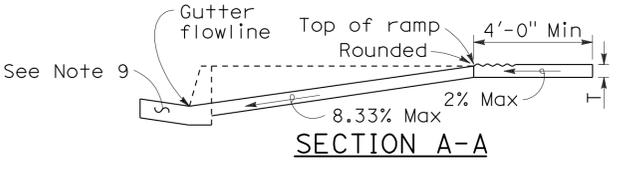
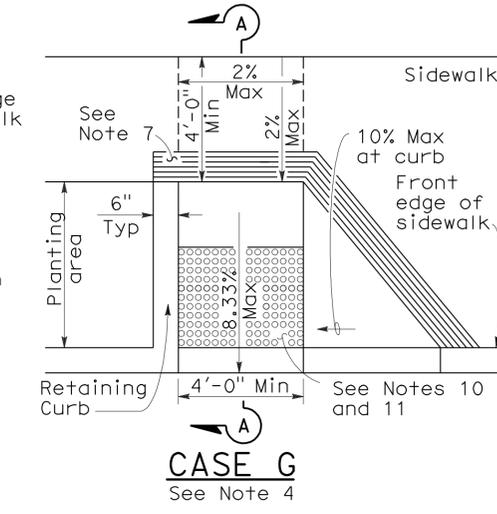
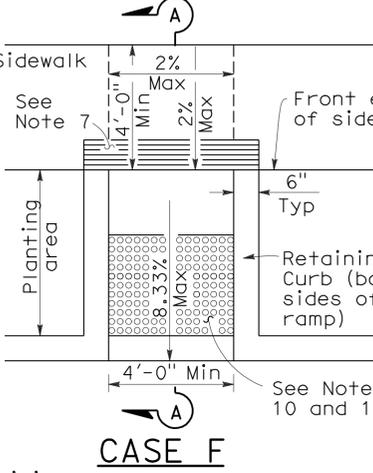
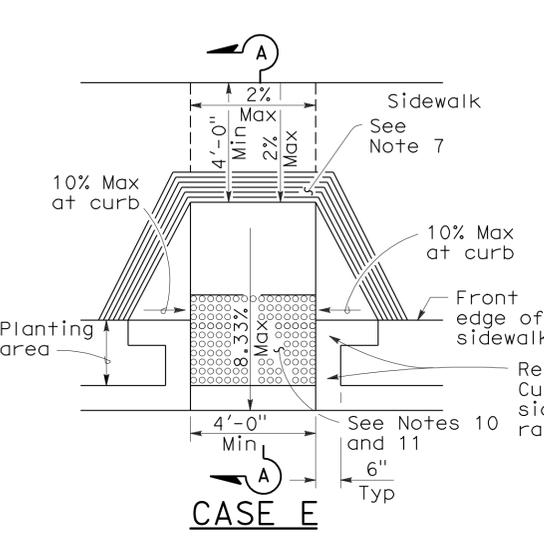
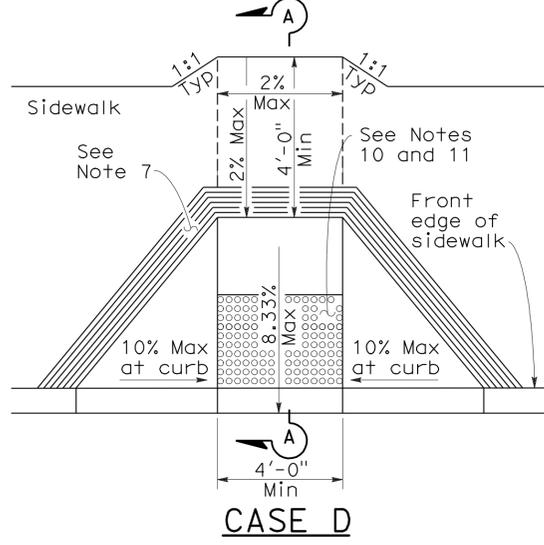
H. David Cordova
 REGISTERED CIVIL ENGINEER
 September 1, 2006
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 Hector David Cordova
 No. C41957
 Exp. 3-31-08
 CIVIL
 STATE OF CALIFORNIA



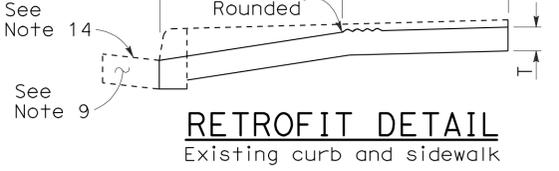
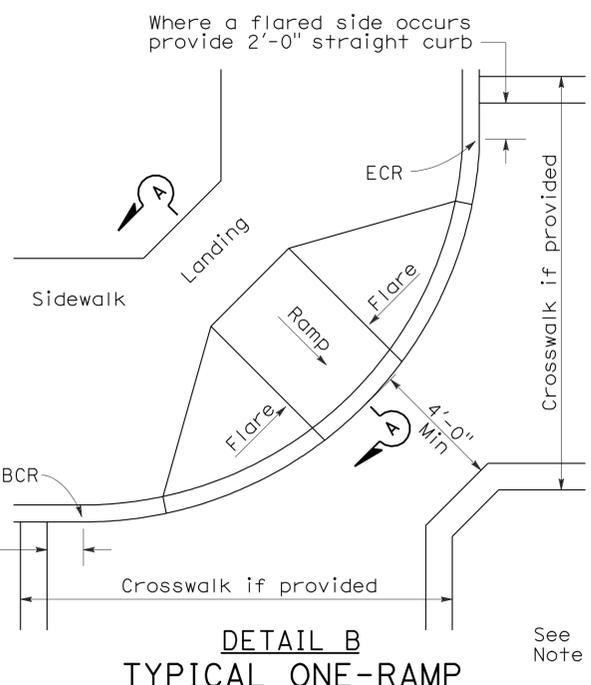
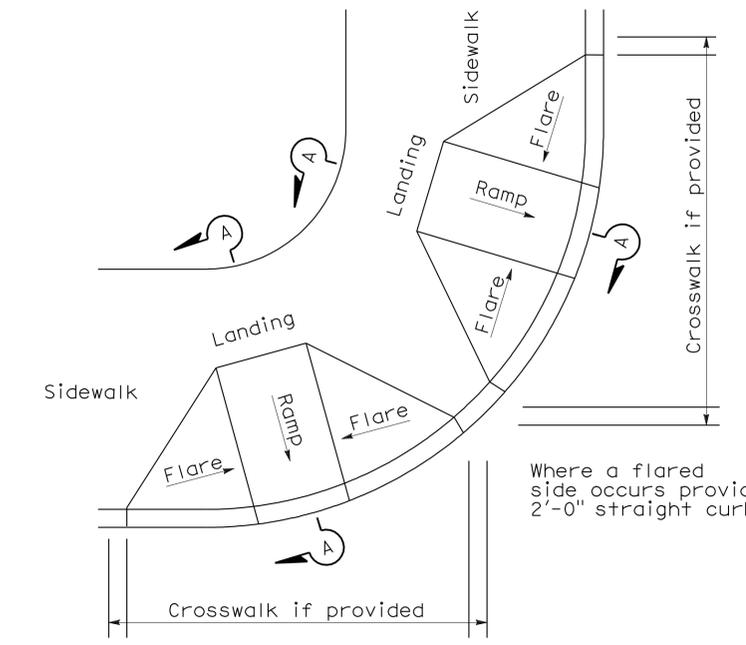
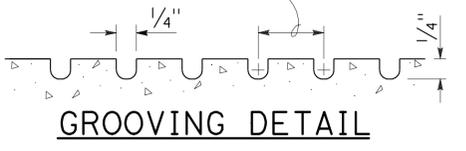
NOTES:

- As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
- If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-0" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B, or C or may be widened as in Case D.
- When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
- As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
- If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-0".
- Side slope of ramp flares vary uniformly from a maximum of 10% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
- The curb ramp shall be outlined, as shown, with a 1'-0" wide border with 1/4" grooves approximately 3/4" on center. See grooving detail.
- Transitions from ramps and landing to walks, gutters or streets shall be flush and free of abrupt changes.
- Maximum slopes of adjoining gutters, the road surface immediately adjacent to the curb ramp or accessible route shall not exceed 5 percent within 4'-0" of the top and bottom of the curb ramp.
- Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. Detectable Warning Surfaces shall conform to the details on this plan and the requirements in the Special Provisions.
- The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
- Sidewalk and ramp thickness, "T", shall be 3/2" minimum.
- Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
- For retrofit conditions, removal and replacement of curb apron will be at the Contractor's option, unless otherwise shown on project plans.



DETECTABLE WARNING SURFACE

CURB RAMP DETAILS
NO SCALE



TYPICAL TWO-RAMP CORNER INSTALLATION

TYPICAL ONE-RAMP CORNER INSTALLATION

RETROFIT DETAIL

2006 REVISED STANDARD PLAN RSP A88A

RSP A88A DATED SEPTEMBER 1, 2006 SUPERSEDES STANDARD PLAN A88A DATED MAY 1, 2006 - PAGE 115 OF THE STANDARD PLANS BOOK DATED MAY 2006.

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 35 | 48 |

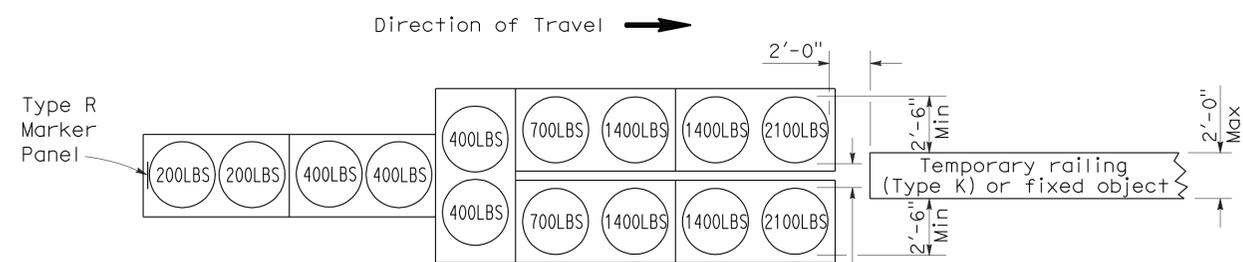
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

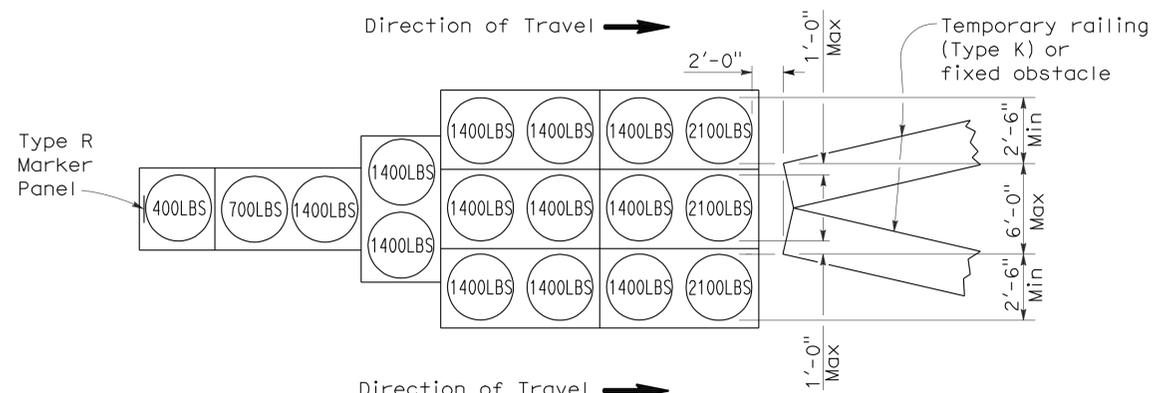
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 2-6-12



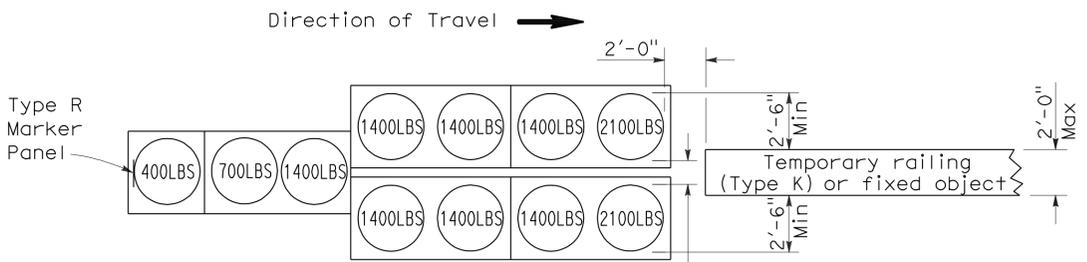
ARRAY 'TU14'

Approach speed 45 mph or more



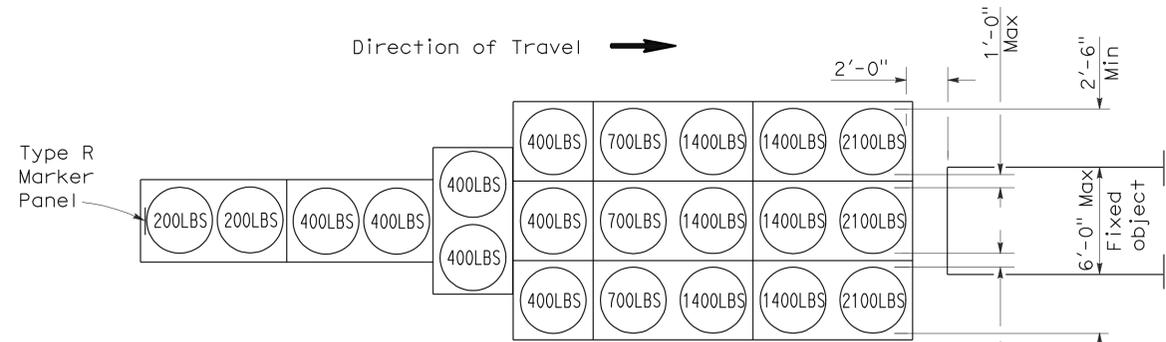
ARRAY 'TU17'

Approach speed less than 45 mph



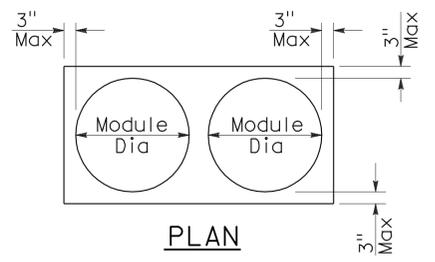
ARRAY 'TU11'

Approach speed less than 45 mph

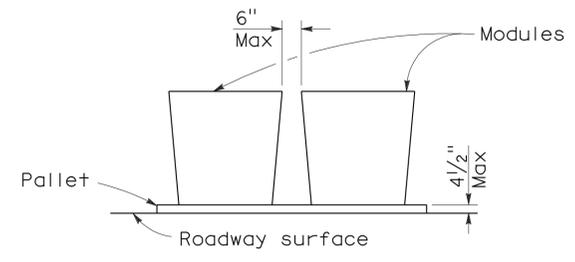


ARRAY 'TU21'

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

2006 REVISED STANDARD PLAN RSP T1A

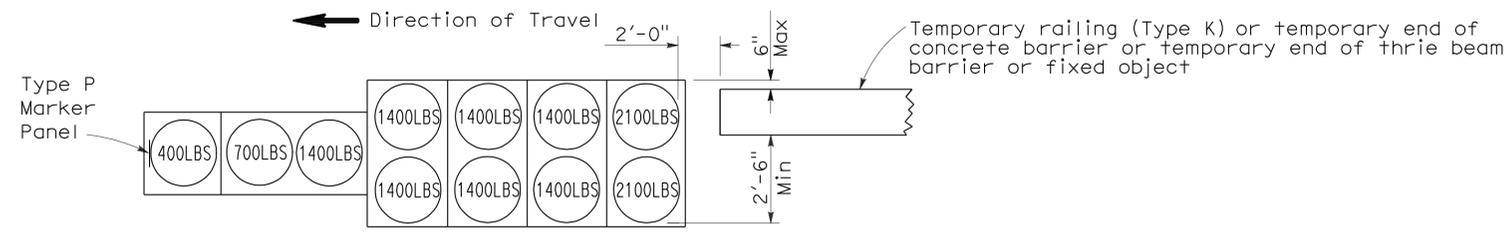
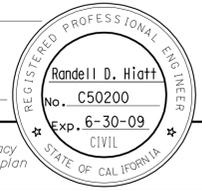
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 57 | 13.4,14.8 | 36 | 48 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

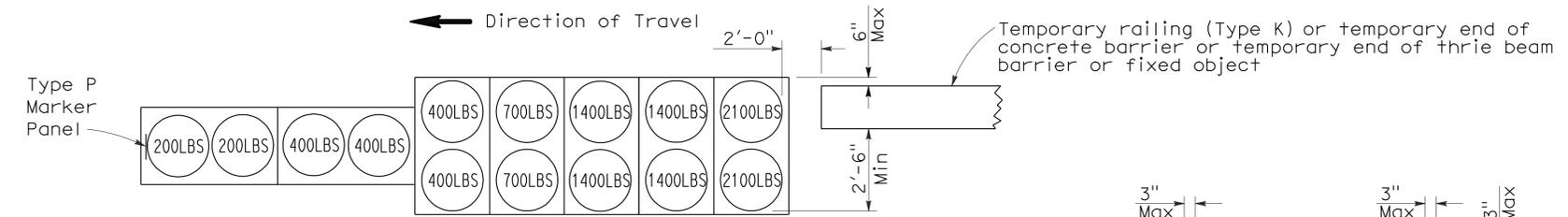
To accompany plans dated 2-6-12



Direction of Travel →

ARRAY 'TB11'

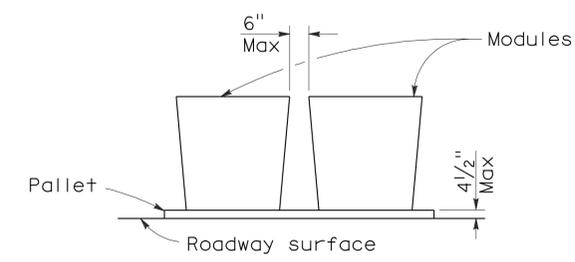
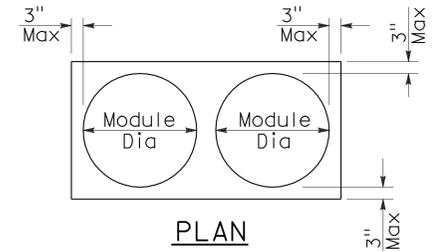
Approach speed less than 45 mph



Direction of Travel →

ARRAY 'TB14'

Approach speed 45 mph or more



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

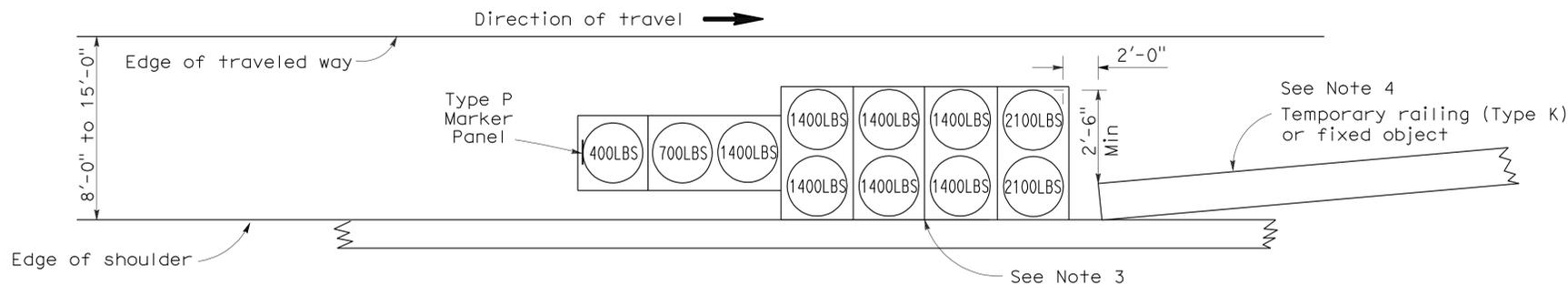
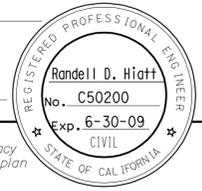
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 57 | 13.4,14.8 | 37 | 48 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

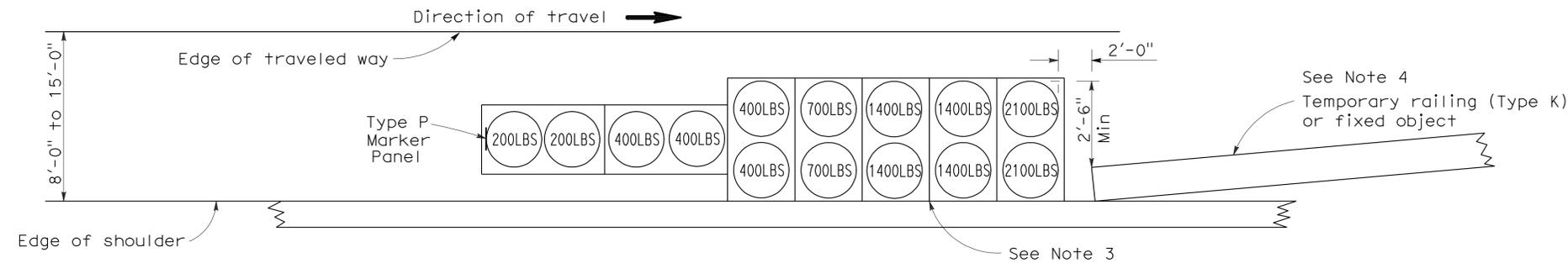
June 6, 2008
PLANS APPROVAL DATE

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

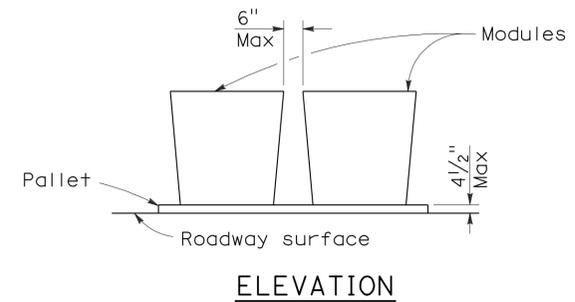
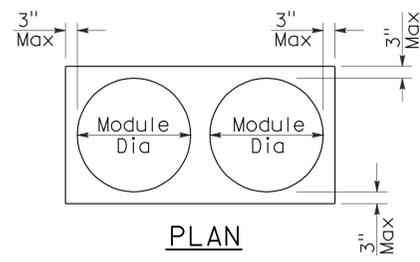
To accompany plans dated 2-6-12



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

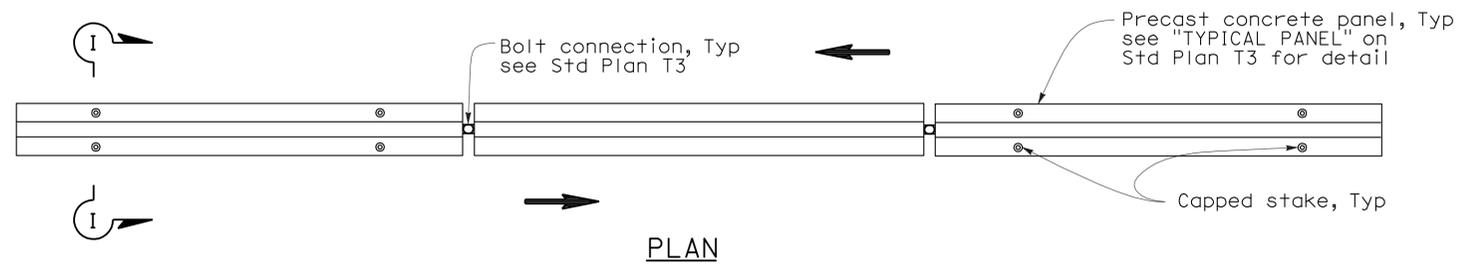
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 57 | 13.4, 14.8 | 38 | 48 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

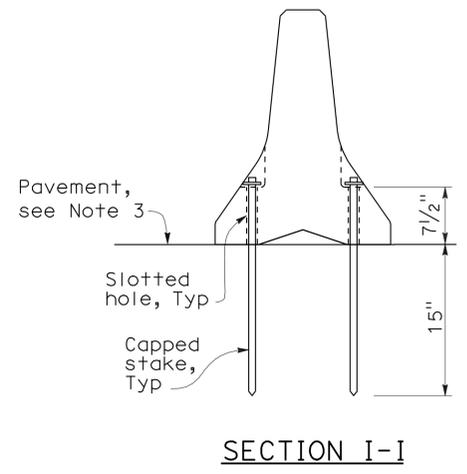
May 20, 2011
PLANS APPROVAL DATE

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

To accompany plans dated 2-6-12

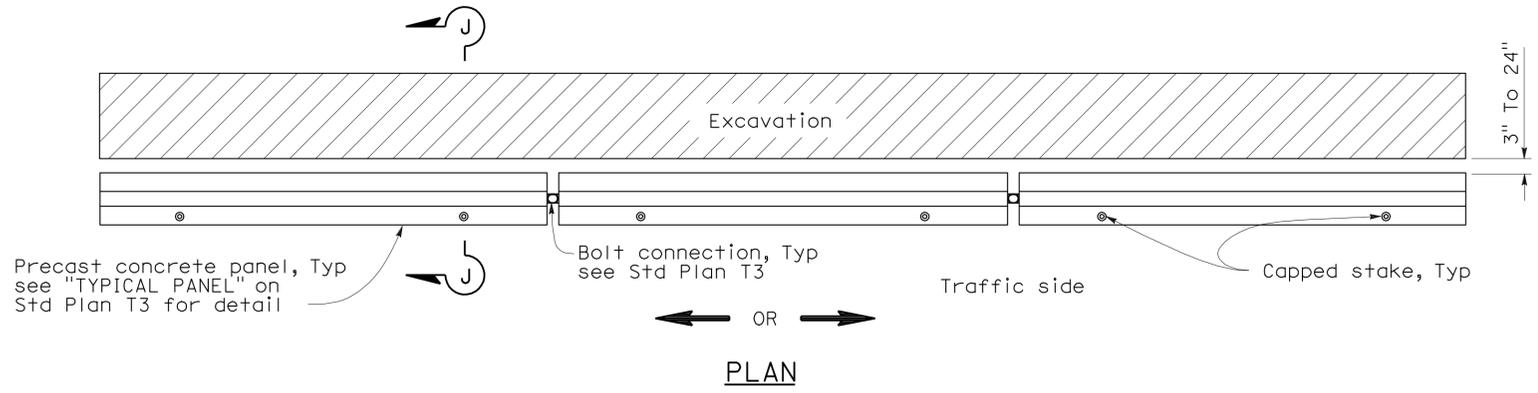


RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1

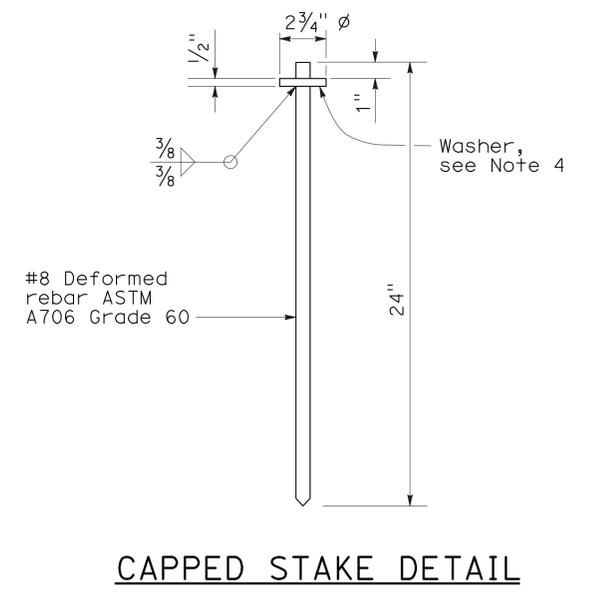
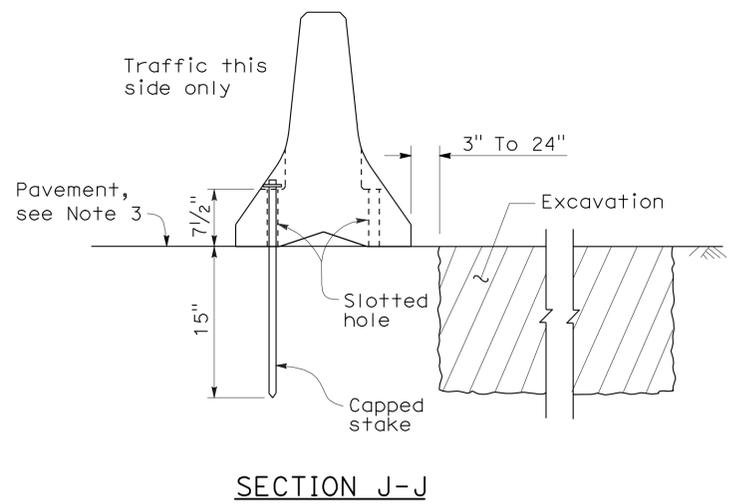


NOTES:

1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by \Rightarrow .



RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION
See Note 2



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY RAILING
(TYPE K)**

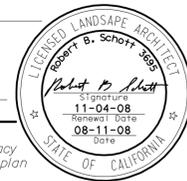
NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

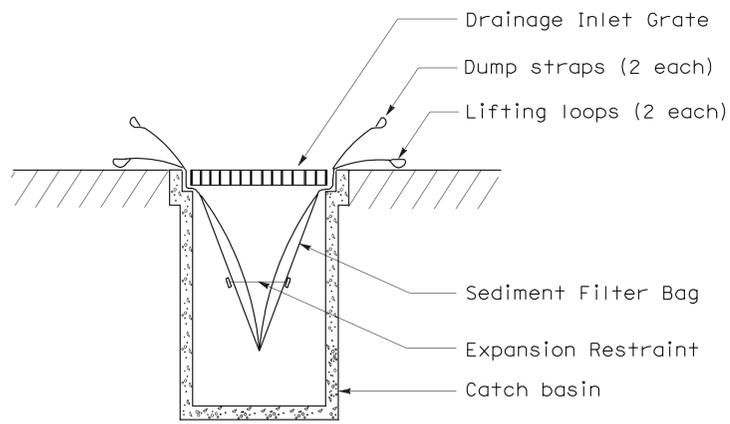
2006 NEW STANDARD PLAN NSP T3A

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 57 | 13.4,14.8 | 39 | 48 |

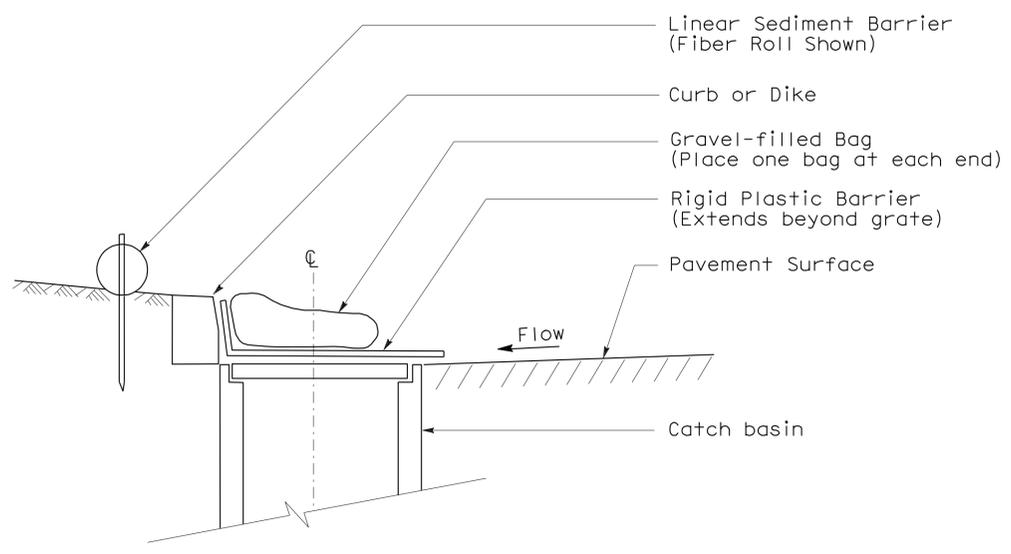
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



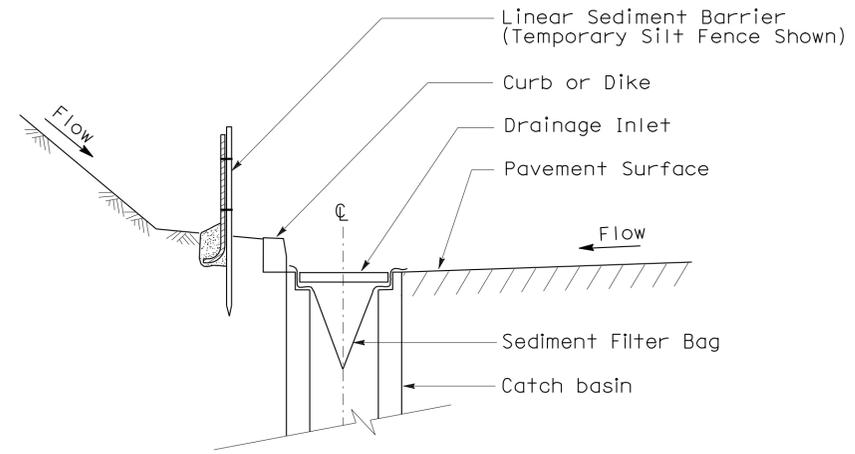
To accompany plans dated 2-6-12



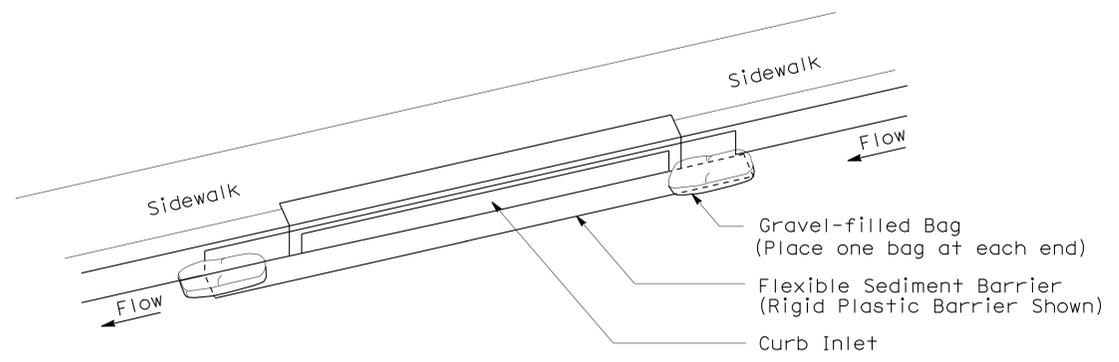
SECTION B-B
SEDIMENT FILTER BAG DETAIL



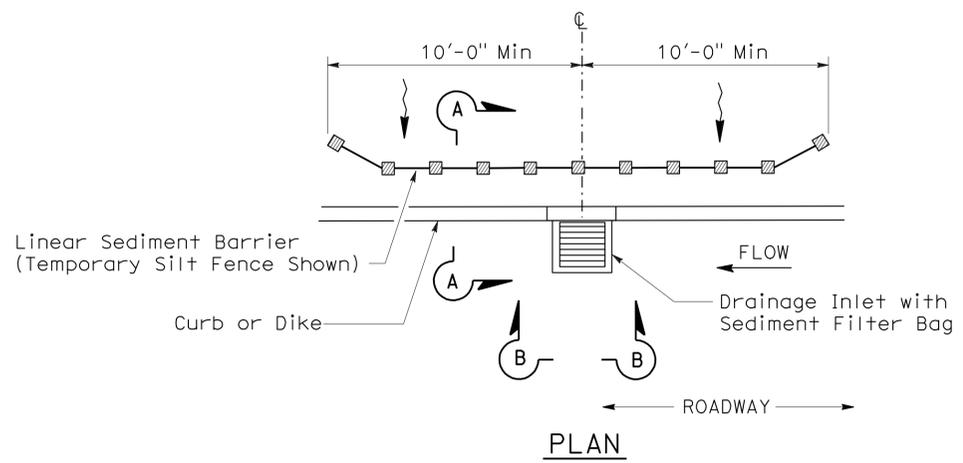
SECTION
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)



SECTION A-A



PERSPECTIVE
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6B)
(CURB INLET WITHOUT GRATE)



PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 5)
(SEDIMENT FILTER BAG)

NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

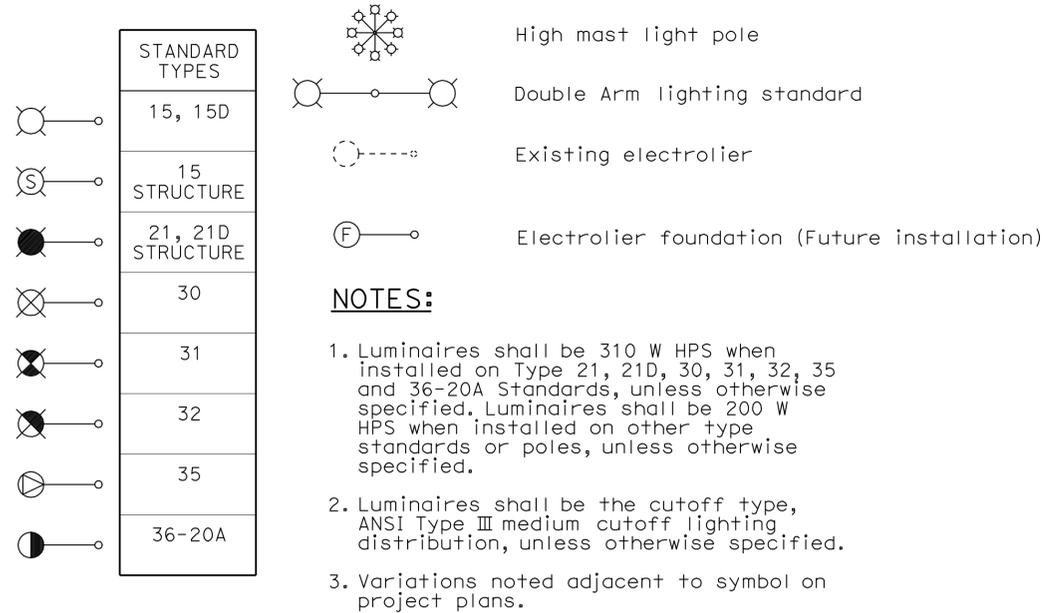
NO SCALE

NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T64

2006 NEW STANDARD PLAN NSP T64

ELECTROLIERS



Electrolier (see project notes or project plans)

Luminaire on wood pole

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

| | | |
|--------|--------|--|
| 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, top 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, top 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 |
| | mv | Mercury vapor lighting fixture |
| N | N | Neutral (Grounded Conductor) |
| NC | NC | Normally closed |
| NO | NO | Normally open |
| PB | pb | 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 |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 57 | 13.4,14.8 | 40 | 48 |

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

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.

To accompany plans dated 2-6-12

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.

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 |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 57 | 13.4,14.8 | 41 | 48 |

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

To accompany plans dated 2-6-12

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 |

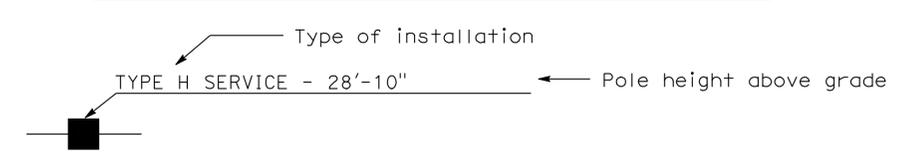
SIGNAL EQUIPMENT

| 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

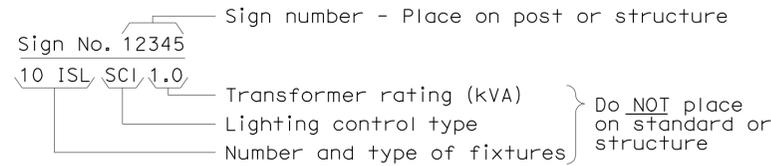
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

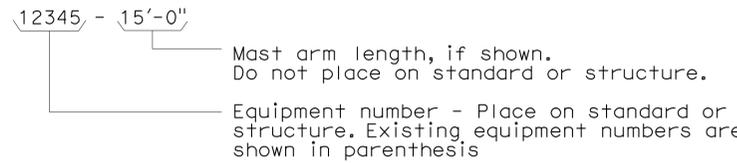
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

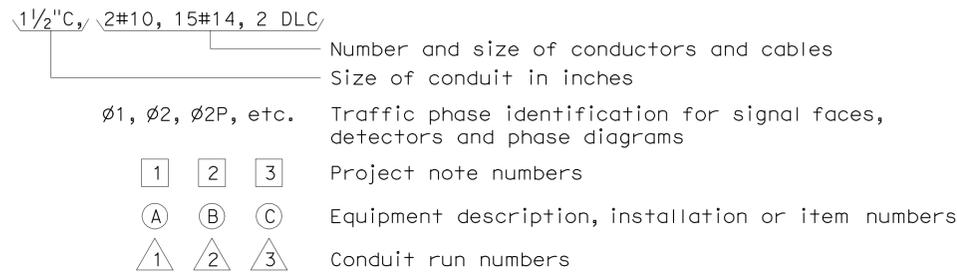
ILLUMINATED SIGN IDENTIFICATION NUMBER:



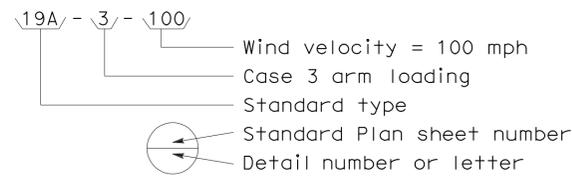
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



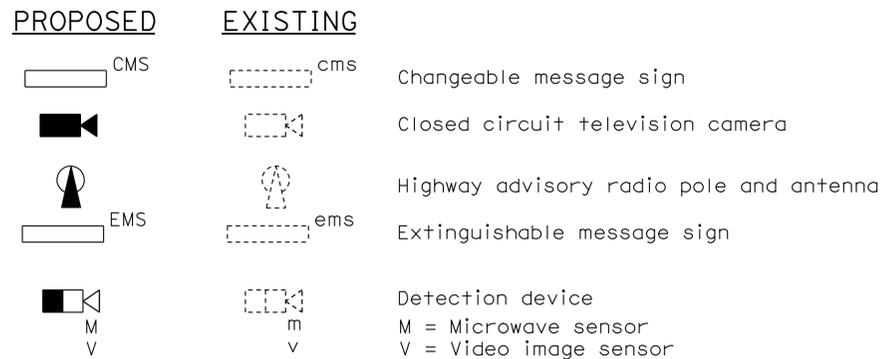
CONDUIT AND CONDUCTOR IDENTIFICATION:



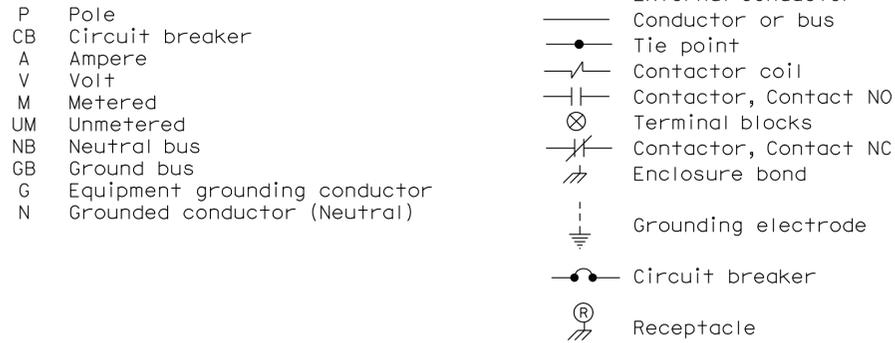
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



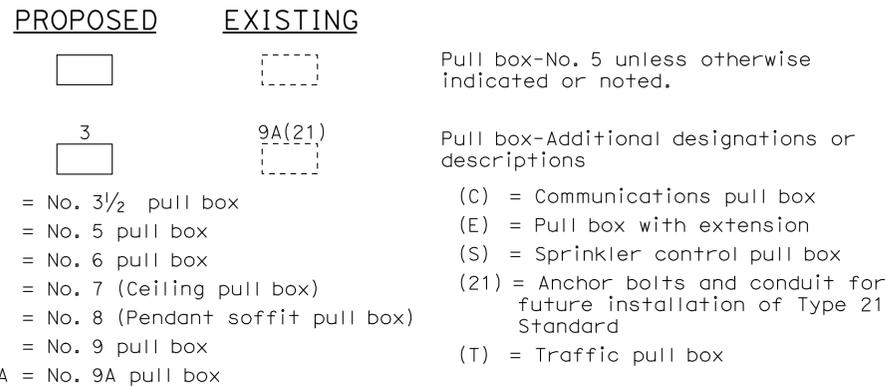
MISCELLANEOUS EQUIPMENT



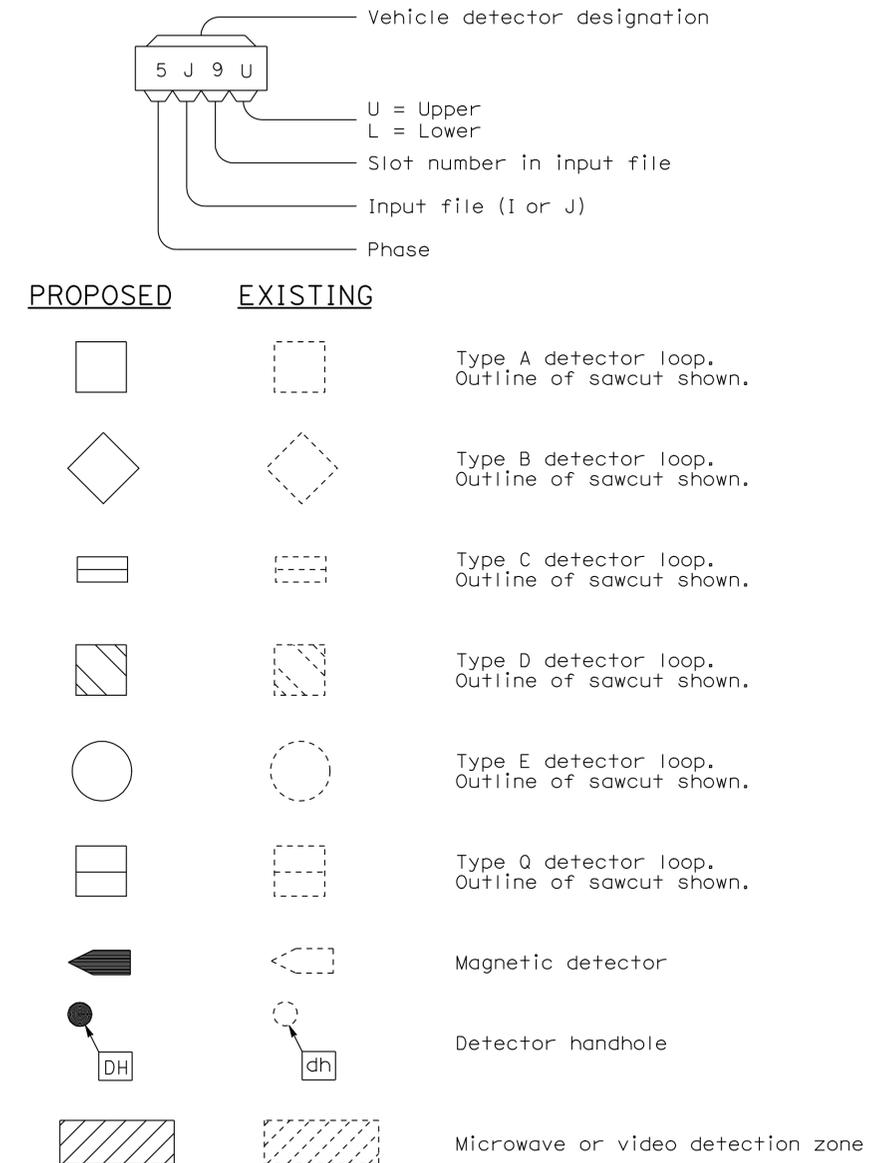
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



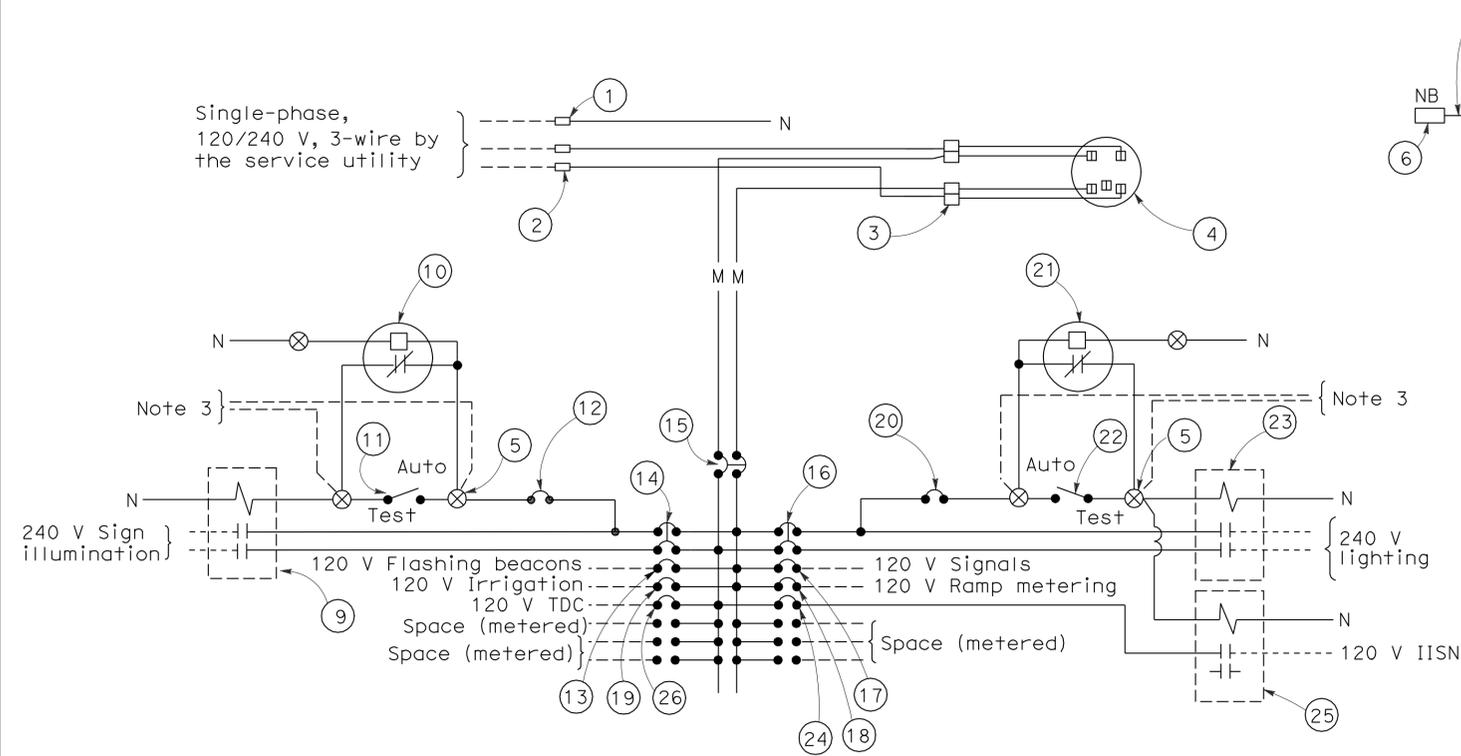
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(SYMBOLS AND ABBREVIATIONS)

NO SCALE

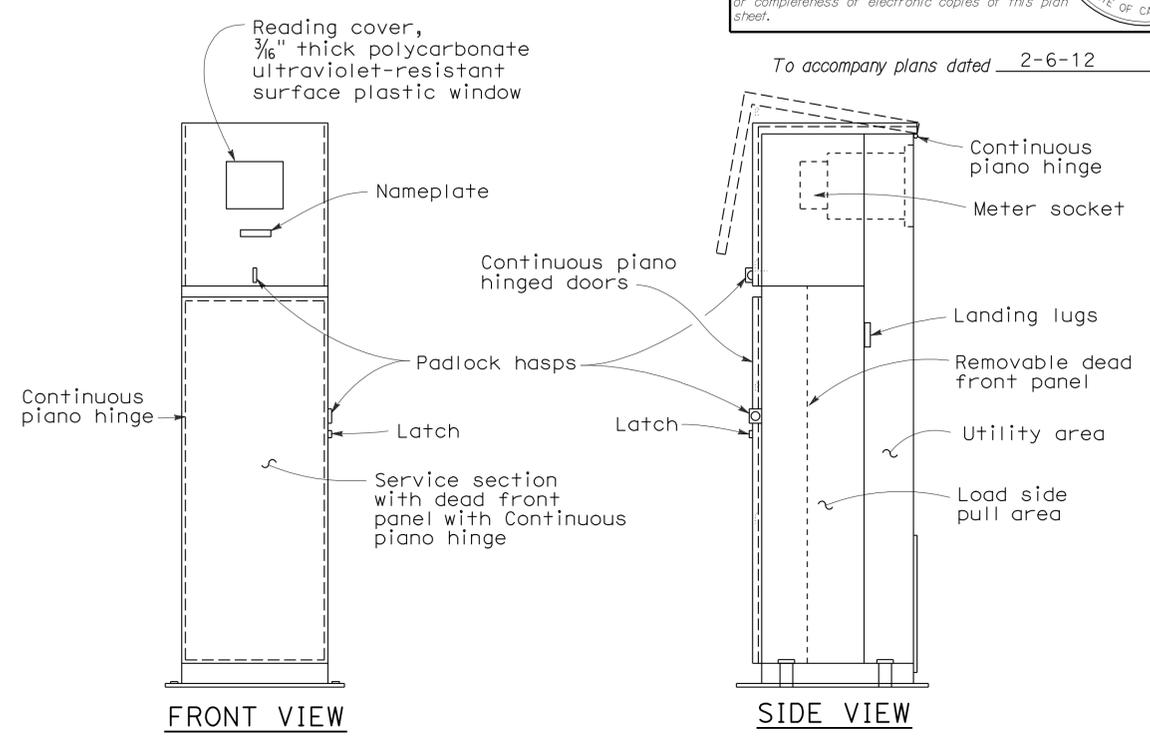
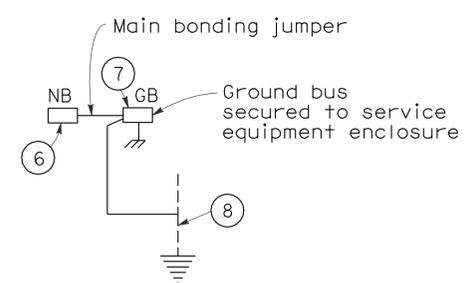
RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

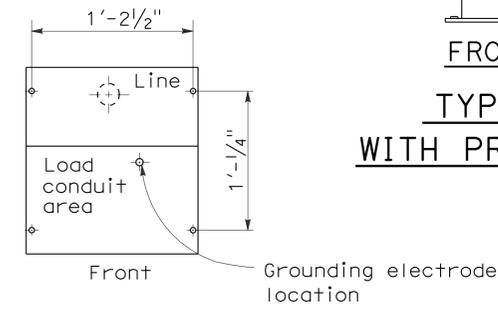


120/240 V SERVICE WIRING DIAGRAM (TYPICAL)

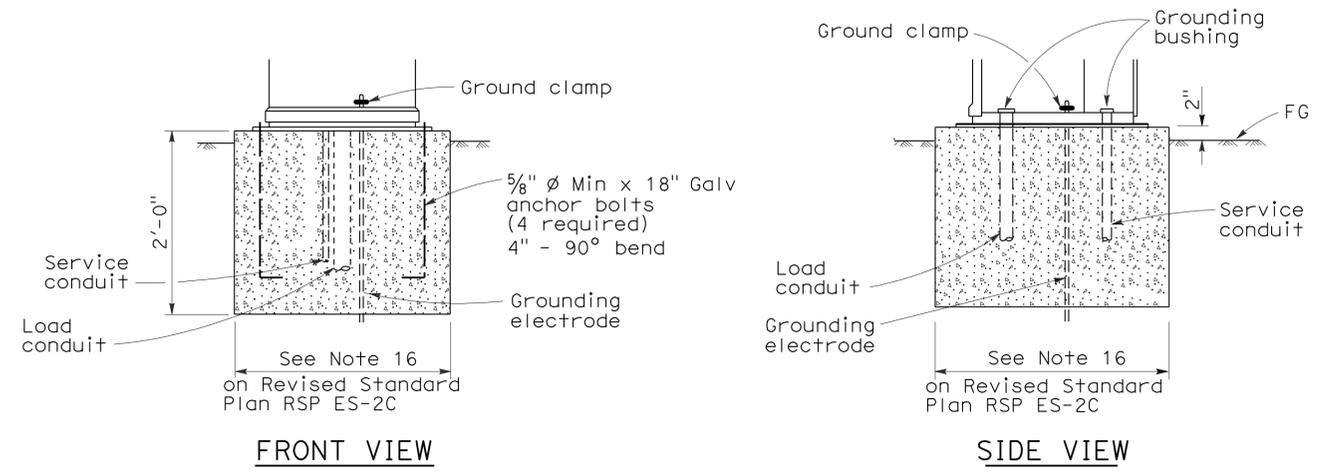


TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH PROVISIONS FOR ONE 100 A METER (TYPICAL)

| TYPE III-B SERVICE (120/240 V) EQUIPMENT LEGEND | | |
|---|-----------------------------|-------------------------------|
| ITEM No. | COMPONENT | NAME PLATE DESCRIPTION |
| ① | Neutral lug | |
| ② | Landing lug (Note 6) | |
| ③ | Test bypass facility | |
| ④ | Meter socket and support | |
| ⑤ | Terminal blocks | |
| ⑥ | Neutral bus | |
| ⑦ | Ground bus | |
| ⑧ | Grounding electrode | |
| ⑨ | 30 A, 2PNO Contactor | Sign Illumination |
| ⑩ | Photoelectric unit (Note 7) | |
| ⑪ | 15 A, 1P, Test switch | Sign Illumination Test Switch |
| ⑫ | 15 A, 120 V, 1P, CB | Sign Illumination Control |
| ⑬ | 15 A, 120 V, 1P, CB | Flashing Beacon |
| ⑭ | 30 A, 240 V, 2P, CB | Sign Illumination |
| ⑮ | 100 A, 240 V, 2P, CB | Main Breaker |
| ⑯ | 30 A, 240 V, 2P, CB | Lighting |
| ⑰ | 50 A, 120 V, 1P, CB | Signals |
| ⑱ | 30 A, 120 V, 1P, CB | Ramp Metering |
| ⑲ | 20 A, 120 V, 1P, CB | Irrigation |
| ⑳ | 15 A, 120 V, 1P, CB | Lighting Control |
| ㉑ | Photoelectric unit (Note 7) | |
| ㉒ | 15 A, 1P, Test switch | Lighting Test Switch |
| ㉓ | 60 A, 2PNO Contactor | Lighting |
| ㉔ | 15 A, 120 V, 1P, CB | IISNS |
| ㉕ | 30 A, 2PNO Contactor | IISNS |
| ㉖ | 20 A, 120 V, 1P, CB | Telephone Demarcation Cabinet |



BASE FOR TYPE III-B SERVICE EQUIPMENT ENCLOSURE



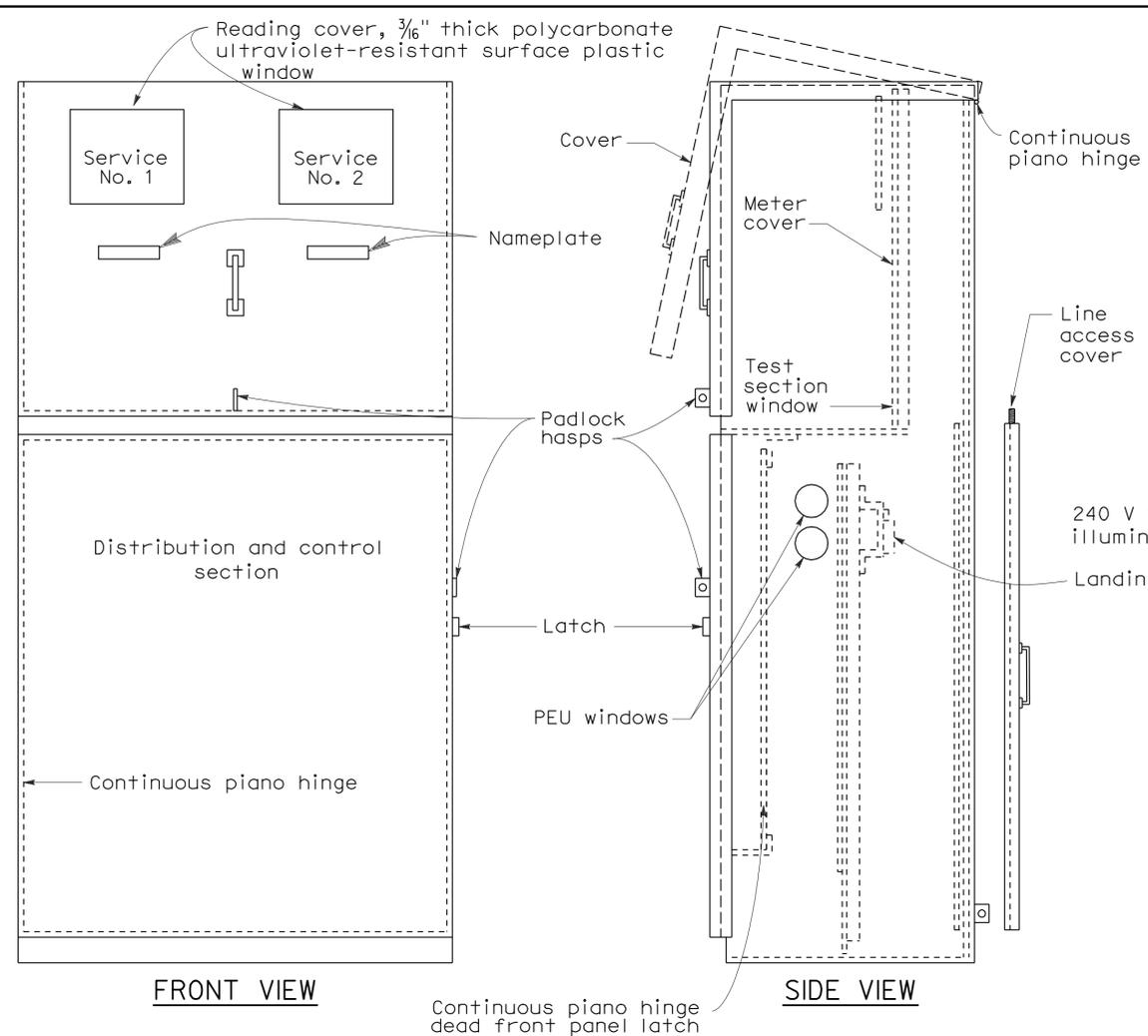
TYPE III-B SERVICE EQUIPMENT ENCLOSURE FOUNDATION DETAILS

- NOTES: (FOR SERVICE EQUIPMENT ENCLOSURE)**
- Voltage ratings of service equipment shall conform to the service voltages indicated on the plans.
 - Unless otherwise indicated on the plans, service equipment items shall be provided for each service equipment enclosure as shown.
 - Connect to remote test switch mounted on lighting standards, sign post or structure when required.
 - Items No. ① and ⑥ shall be isolated from the service equipment enclosure.
 - Meter sockets shall be 5 clip type.
 - The landing lug shall be suitable for multiple conductors.
 - Type I photoelectric control shall be used unless otherwise indicated on the plans.

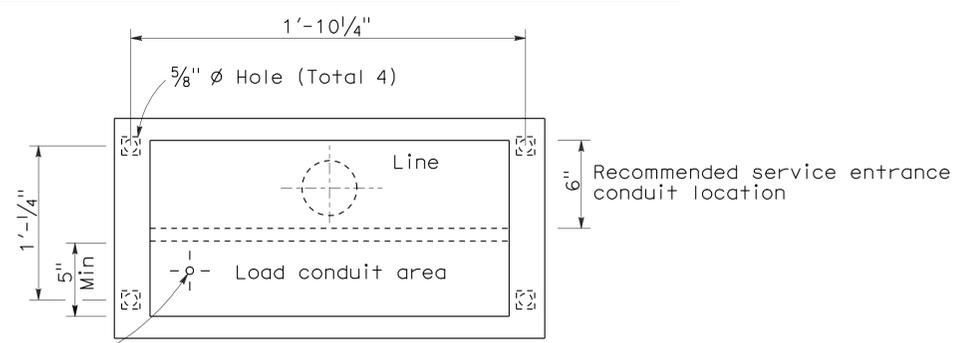
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SERVICE EQUIPMENT AND
 TYPICAL WIRING DIAGRAM,
 TYPE III-B SERIES)**
 NO SCALE

RSP ES-2E DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-2E
 DATED MAY 1, 2006 - PAGE 407 OF THE STANDARD PLANS BOOK DATED MAY 2006.

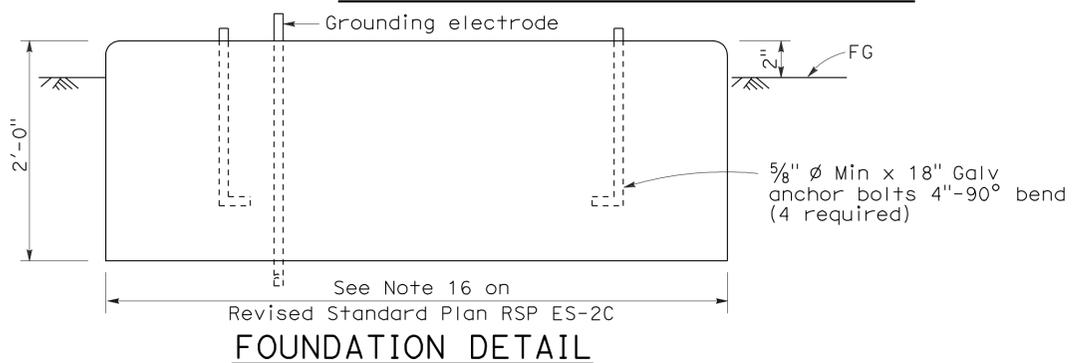
2006 REVISED STANDARD PLAN RSP ES-2E



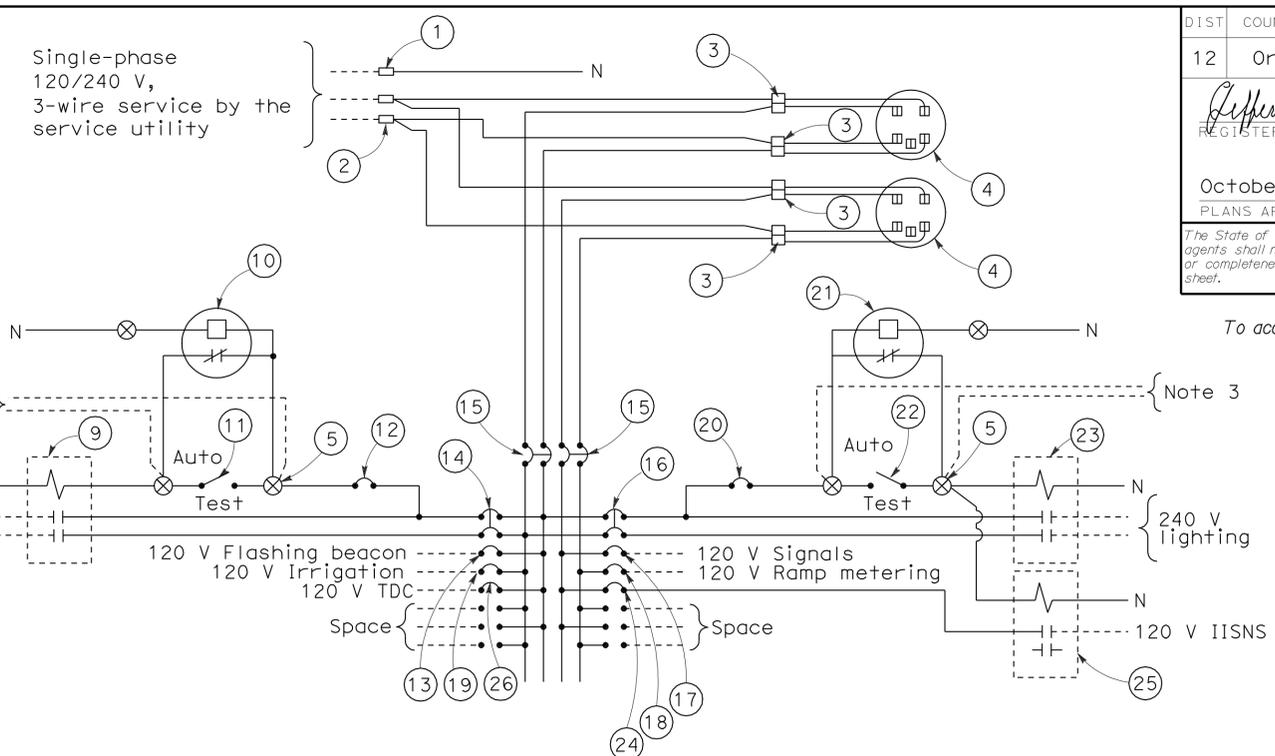
TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH PROVISIONS FOR TWO 100 A METERS (TYPICAL)



BASE FOR TYPE III-C SERVICE EQUIPMENT ENCLOSURE



FOUNDATION DETAIL



120/240 V SERVICE WIRING DIAGRAM (TYPICAL)

| TYPE III-C SERVICE (120/240 V) EQUIPMENT LEGEND | | | | | |
|---|-----------------------------|-------------------------------|----------|-----------------------------|-------------------------------|
| ITEM No. | COMPONENT | NAME PLATE DESCRIPTION | ITEM No. | COMPONENT | NAME PLATE DESCRIPTION |
| 1 | Neutral lug | | 14 | 30 A, 240 V, 2P, CB | Sign Illumination |
| 2 | Landing lug (Note 6) | | 15 | 100 A, 240 V, 2P, CB | Main Breaker |
| 3 | Test bypass facility | | 16 | 30 A, 240 V, 2P, CB | Lighting |
| 4 | Meter socket and support | | 17 | 50 A, 120 V, 1P, CB | Signals |
| 5 | Terminal blocks | | 18 | 30 A, 120 V, 1P, CB | Ramp Metering |
| 6 | Neutral bus | | 19 | 20 A, 120 V, 1P, CB | Irrigation |
| 7 | Ground bus | | 20 | 15 A, 120 V, 1P, CB | Lighting Control |
| 8 | Grounding electrode | | 21 | Photoelectric unit (Note 7) | |
| 9 | 30 A, 2PNO, Contactor | Sign Illumination | 22 | 15 A, 1P, Test switch | Lighting Control |
| 10 | Photoelectric unit (Note 7) | | 23 | 60 A, 2PNO Contactor | Lighting |
| 11 | 15 A, 1P, Test switch | Sign Illumination Test Switch | 24 | 15 A, 120 V, 1P, CB | IISNS |
| 12 | 15 A, 120 V, 1P, CB | Sign Illumination Control | 25 | 30 A, 2PNO Contactor | IISNS |
| 13 | 15 A, 120 V, 1P, CB | Flashing Beacon | 26 | 20 A, 120 V, 1P, CB | Telephone Demarcation Cabinet |

NOTES: (FOR SERVICE EQUIPMENT ENCLOSURE)

- Voltage ratings of service equipment shall conform to the service voltages indicated on the plans.
- Unless otherwise indicated on the plans, service equipment items shall be provided for each service equipment enclosure as shown.
- Connect to remote test switch mounted on lighting standards, sign post or structure when required.
- Items No. 1 and 6 shall be isolated from the service equipment enclosure.
- Meter sockets shall be 5 clip type.
- The landing lug shall be suitable for multiple conductors.
- Type I photoelectric control shall be used unless otherwise indicated on the plans.

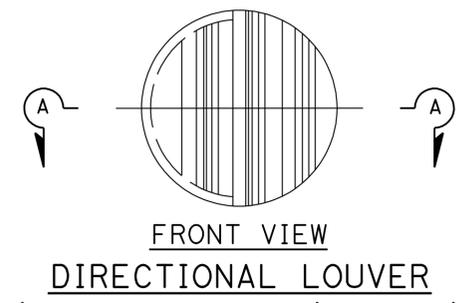
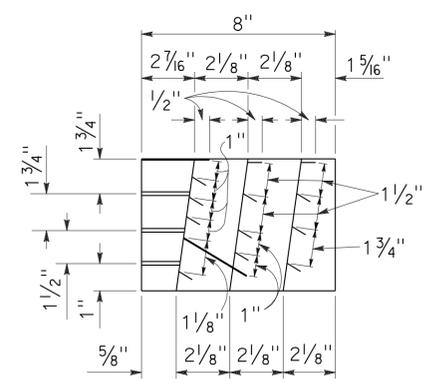
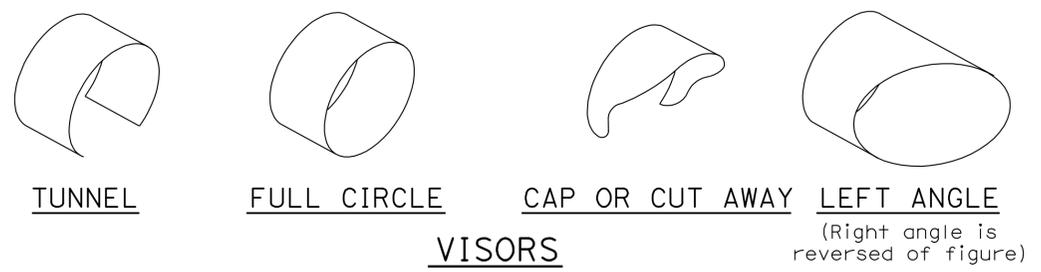
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SERVICE EQUIPMENT AND
 TYPICAL WIRING DIAGRAM
 TYPE III - C SERIES)**
 NO SCALE

RSP ES-2F DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-2F
 DATED MAY 1, 2006 - PAGE 408 OF THE STANDARD PLANS BOOK DATED MAY 2006.

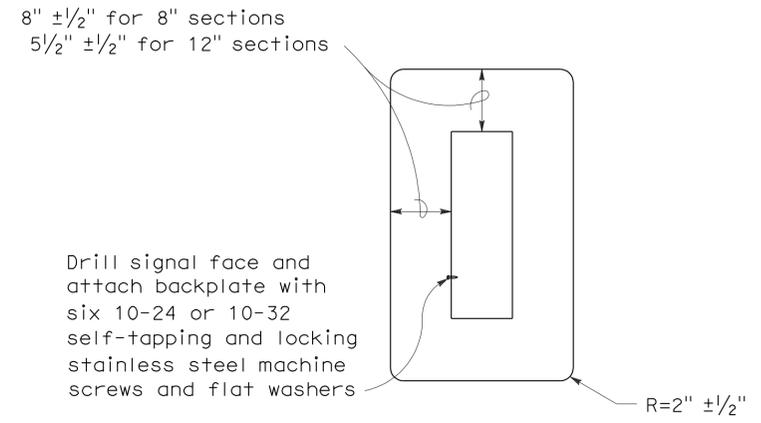
2006 REVISED STANDARD PLAN RSP ES-2F

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 57 | 13.4,14.8 | 45 | 48 |

Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
 REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA

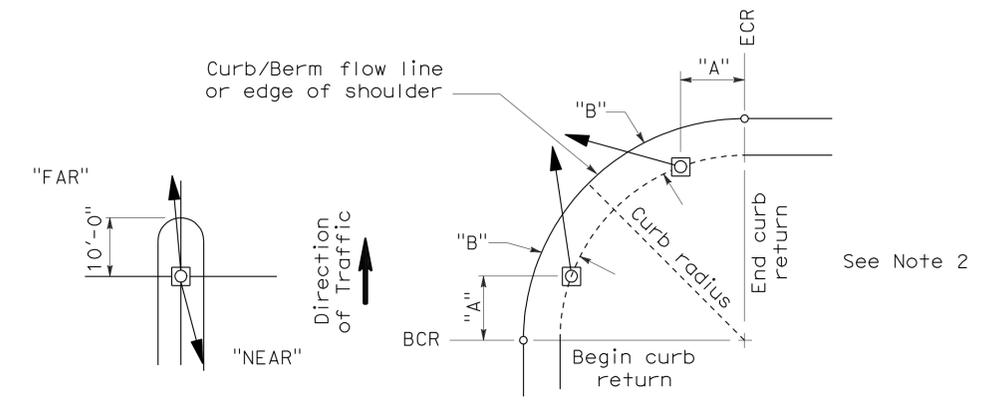


Directional louvers shall be oriented as directed by the Engineer and secured in place with one plated brass machine screw and nut.



8" AND 12" SECTIONS

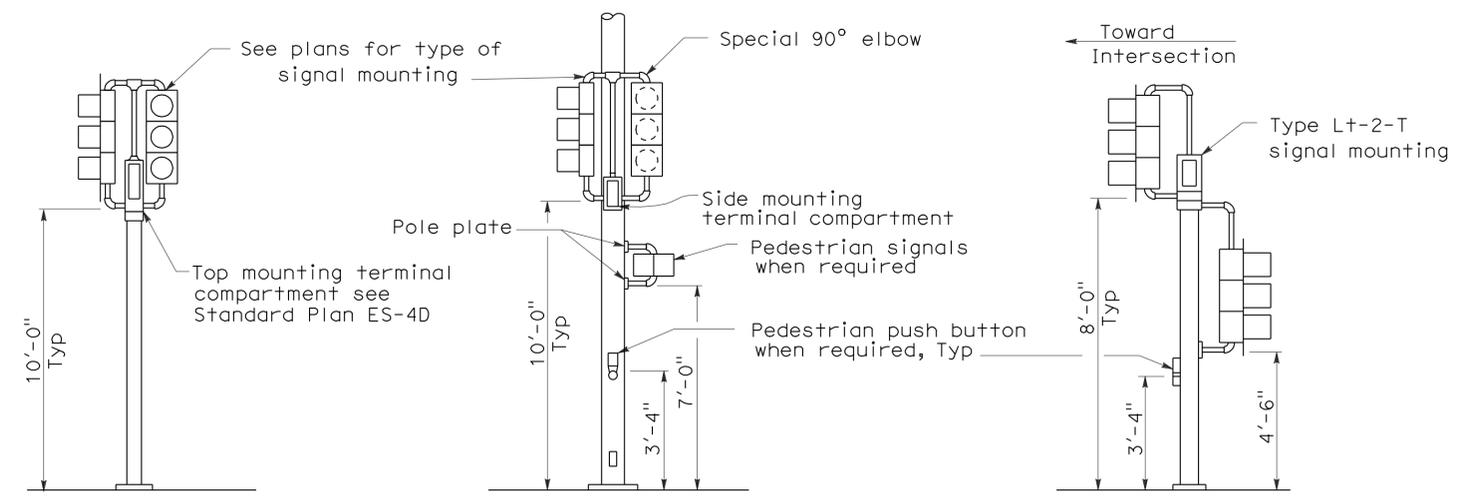
BACKPLATE
 1/16" minimum thickness
 3001-14 aluminum, or plastic when specified



NOTES:

1. Typical signal pole placement unless dimensioned on plans.
2. For "A" and "B" dimensions, see Pole Schedule, or as directed by the Engineer.

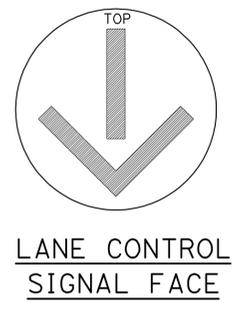
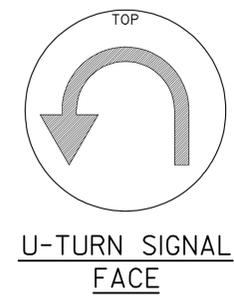
SIGNAL STANDARD PLACEMENT DIMENSIONS AND EQUIPMENT LOCATIONS



TOP MOUNTED SIGNALS (TV)
 Type 1-A, 1-B, 1-C and 1-D standard as indicated on the plans

SIDE MOUNTED SIGNALS (SV AND SP)
 Normally used on standards with luminaire or signal mast arm

LEFT TURN LANE SIGNAL
 Type 1-A, 1-B, 1-C and 1-D standard as indicated on plans



TYPICAL SIGNAL INSTALLATIONS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)

NO SCALE

RSP ES-4C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN ES-4C DATED MAY 1, 2006 - PAGE 420 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-4C

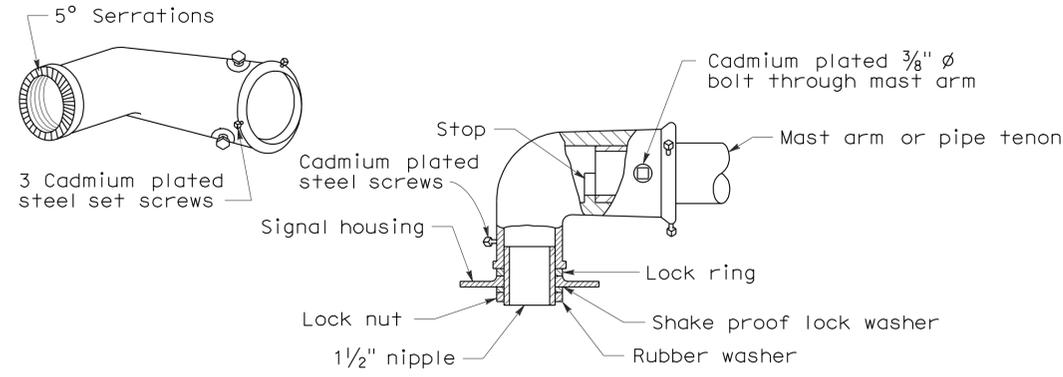
2006 REVISED STANDARD PLAN RSP ES-4C

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 57 | 13.4,14.8 | 46 | 48 |

June 6, 2008
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

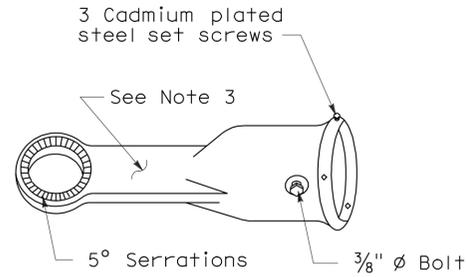
REGISTERED ELECTRICAL ENGINEER
 REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA

To accompany plans dated 2-6-12



MAST ARM MOUNTING - TYPE "MAT"

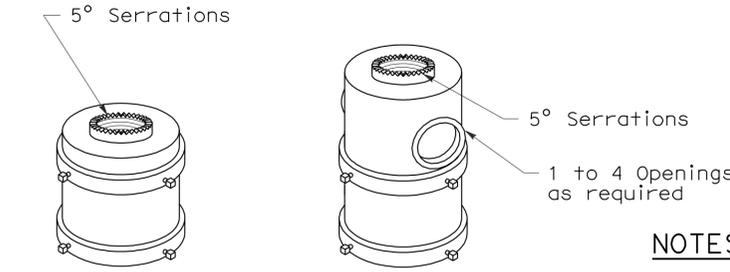
For 2 NPS pipe, see Note 1.



MAST ARM MOUNTING - TYPE "MAS"

For 2 NPS pipe. See Note 1.

SIGNAL SLIP FITTERS



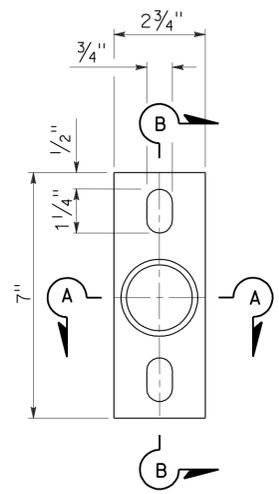
For one mounting For multiple mountings

TOP MOUNTINGS

For 4 NPS pipe, see Note 2.

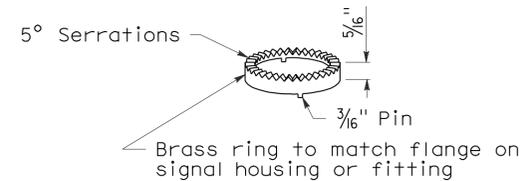
NOTES:

- After mast arm signal has been plumbed and secured, drill 7/16" hole through mast arm tenon in line with slip fitter hole. Place a cadmium plated 3/8" ø galvanized bolt with washer under bolt head through hole and secure with washer, nut, and locknut. Seal openings between mast arm mountings and mast arm with mastic.
- (a) Threaded top mounted slip fitter openings shall be 1/2" NPS.
 (b) Serrations in fittings shall match those on bottom of signal heads or in lock ring.
 (c) Top opening shall be offset when backplate is used.
- Wireway shall have a cross section area of 0.95 square inch minimum. Minimum width of 1/2".



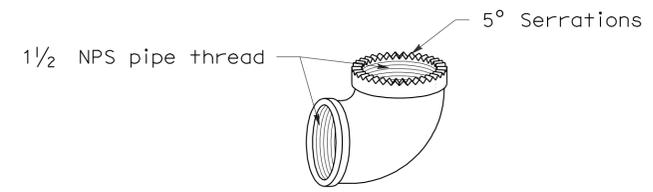
POLE PLATE

For side mountings



LOCK RING

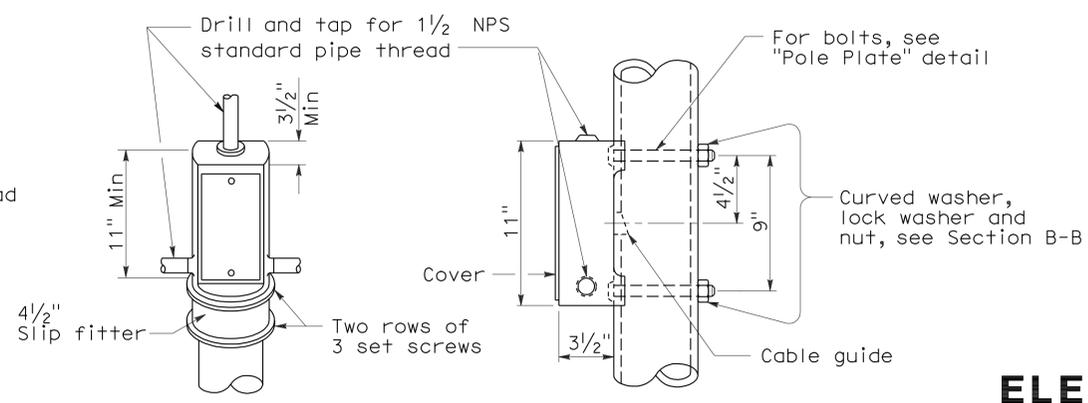
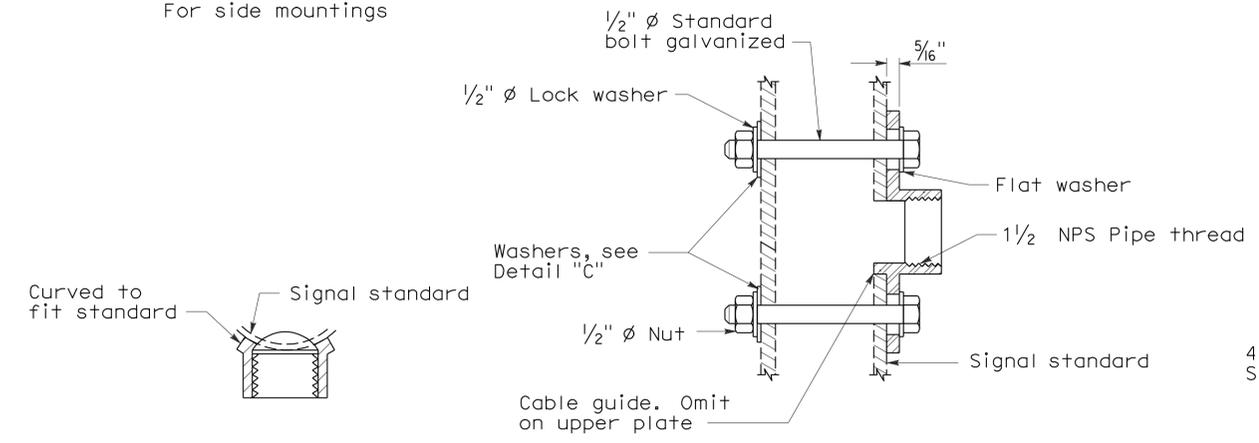
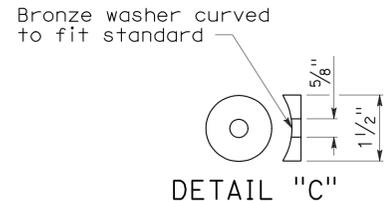
Use where locking ring is not integral with signal housing or fitting.



SPECIAL 90° ELBOW

One for each signal head, except those with special slip fitter mounting

MISCELLANEOUS MOUNTING HARDWARE



TOP MOUNTING

SIDE MOUNTING

TERMINAL COMPARTMENTS

ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)

NO SCALE

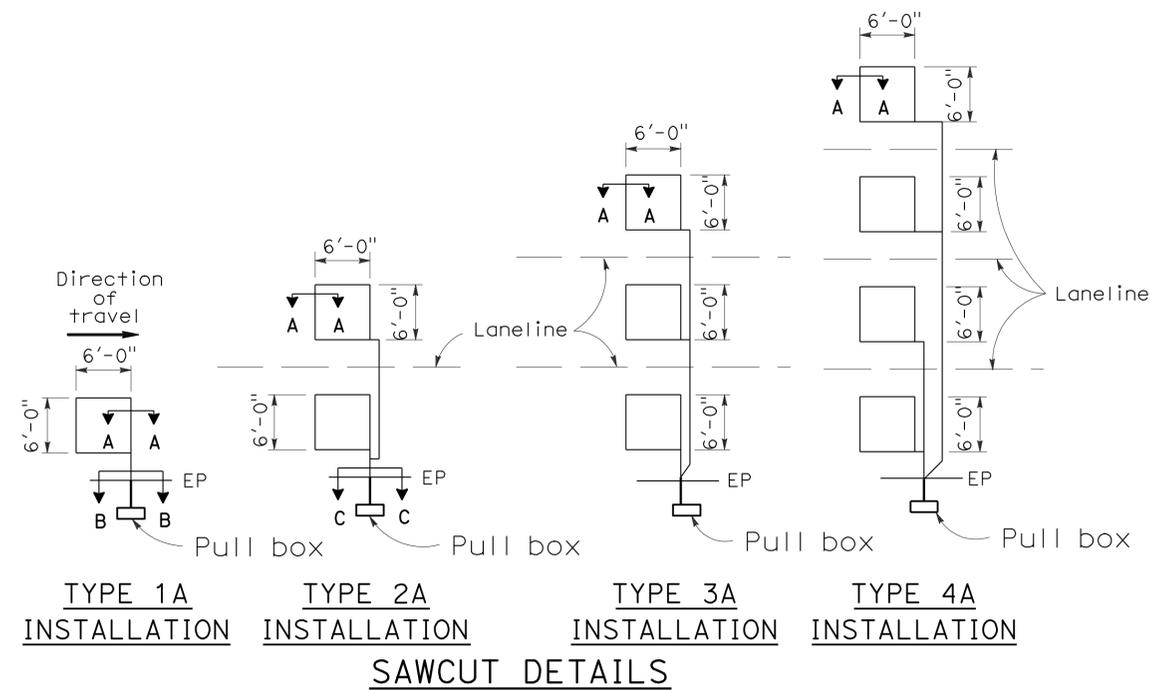
RSP ES-4D DATED June 6, 2008 SUPERSEDES STANDARD PLAN ES-4D DATED MAY 1, 2006 - PAGE 421 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-4D

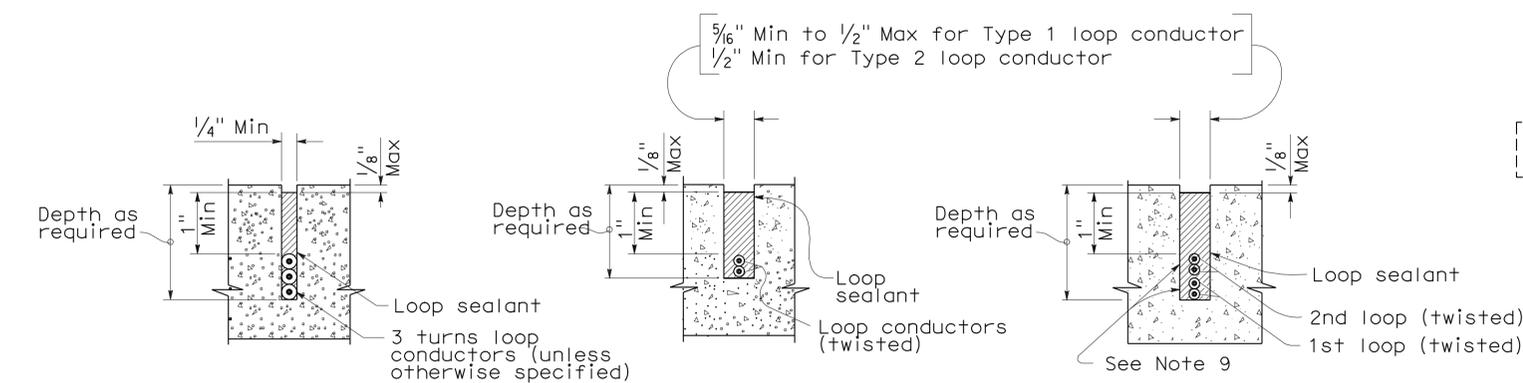
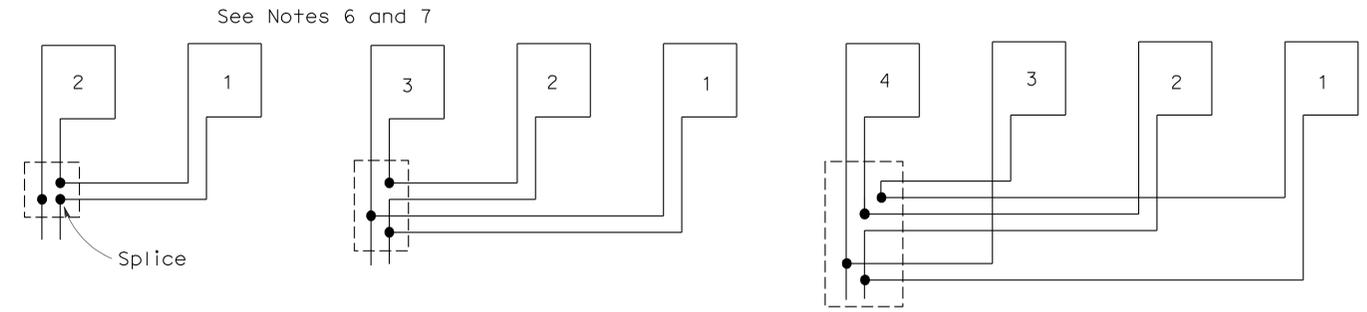
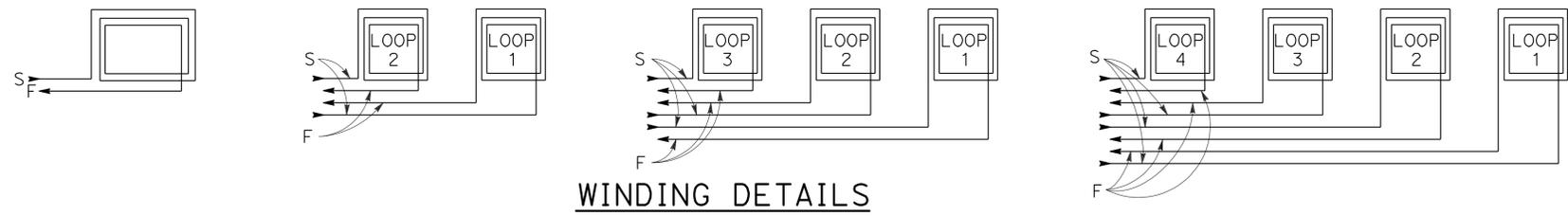
2006 REVISED STANDARD PLAN RSP ES-4D

LOOP INSTALLATION PROCEDURE

- Loops shall be centered in lanes.
- Saw slots in pavement for loop conductors as shown in details.
- Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
- Bottom of saw slot shall be smooth with no sharp edges.
- Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
- Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
- Identify and tag loop circuit pairs in the pull box with loop number, start (S) and finish (F) of conductor. Identify and tag lead-in-cable with sensor number and phase.
- Install loop conductor in slot using a 3/16" to 1/4" thick wood paddle. Hold loop conductors with wood paddles (at the bottom of the sawed slot) during sealant placement.
- No more than 2 twisted pairs shall be installed in one sawed slot.
- Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
- The additional length of each conductor for each loop shall be twisted together into a pair (6 turns per 3'-4" minimum) before being placed in the slot and conduit leading to pull box.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
- Fill slots as shown in details.
- Splice loop conductors to lead-in-cable. Splices shall be soldered.
- End of lead-in-cable and Type 2 loop conductor shall be waterproofed prior to installing in conduit to prevent moisture from entering the cable.
- Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
- Where loop conductors are not to be spliced to a lead-in-cable, the ends of the conductors shall be taped and waterproofed with electrical insulating coating.



- SAWCUT DETAILS**
(Type A loop detector configurations illustrated)
- 1A thru 4A = 1 Type A loop configuration in each lane.
 - 1B thru 4B = 1 Type B loop configuration in each lane.
 - 1C = 1 Type C loop configuration entering lanes as required.
 - 1D thru 4D = 1 Type D loop configuration in each lane.
 - 1E thru 4E = 1 Type E loop configuration in each lane.
 - 1Q thru 4Q = 1 Type Q loop configuration in each lane.
- (Use Type A, B, C, D, E or Q loop detector configurations only when specified or shown on plans)



SECTION A-A SECTION B-B SECTION C-C
SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

TYPICAL LOOP CONNECTIONS
(Dashed lines represent the pull box)

ELECTRICAL SYSTEMS (DETECTORS)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

NO SCALE

RSP ES-5A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-5A
DATED MAY 1, 2006 - PAGE 423 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-5A

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 12 | Ora | 57 | 13.4,14.8 | 47 | 48 |

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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

To accompany plans dated 2-6-12

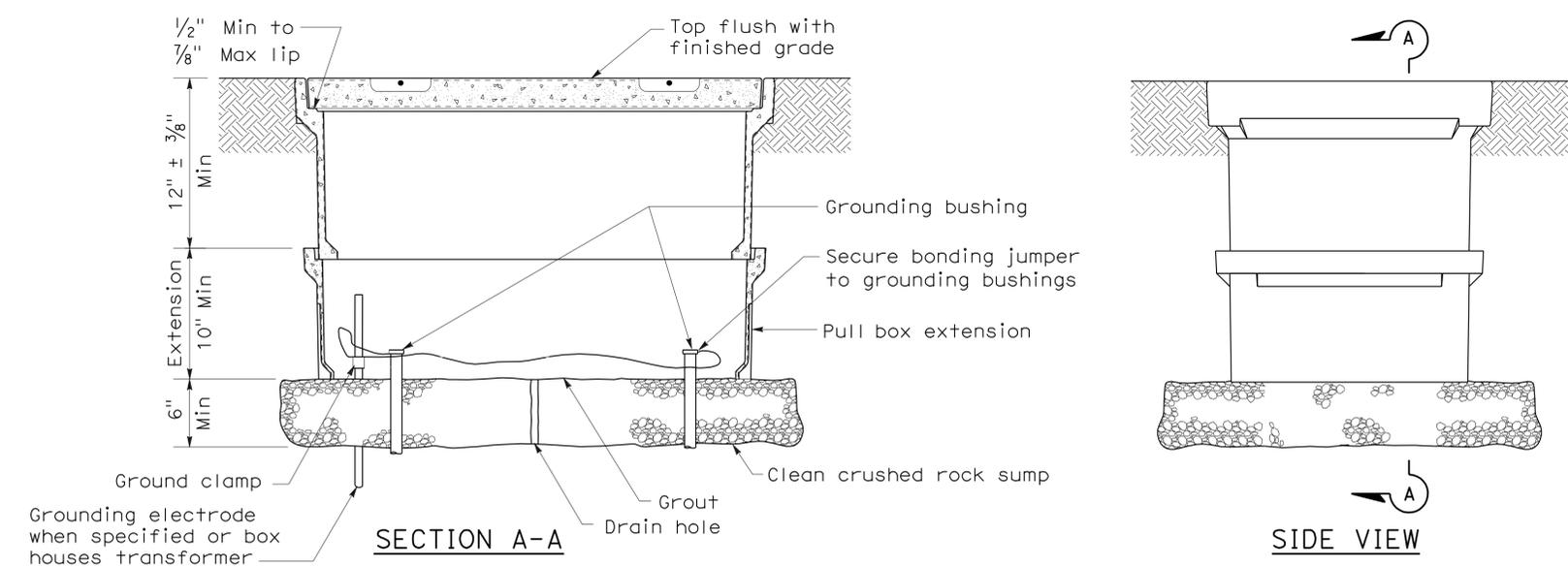
2006 REVISED STANDARD PLAN RSP ES-5A

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 57 | 13.4,14.8 | 48 | 48 |

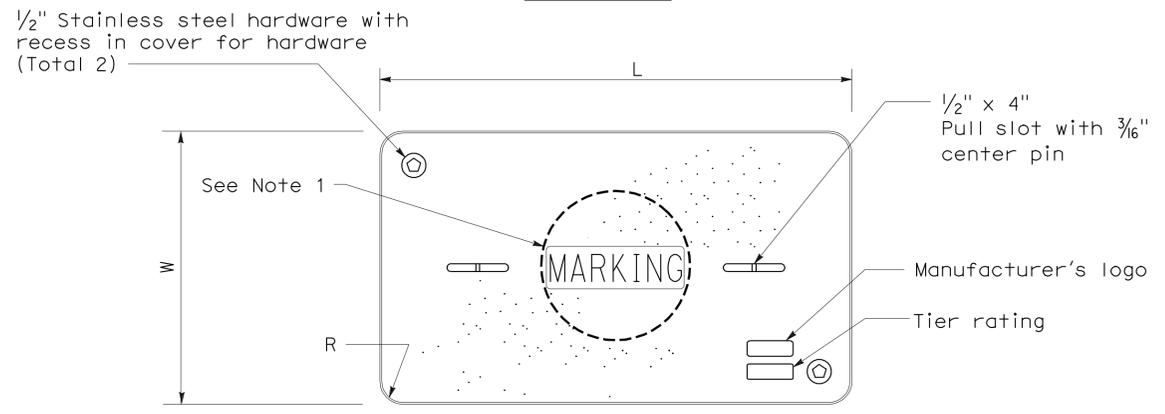
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 January 20, 2012
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-12
 ELECTRICAL
 STATE OF CALIFORNIA

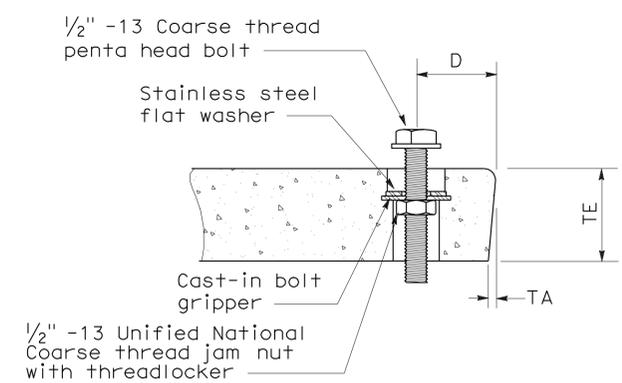
To accompany plans dated 2-6-12



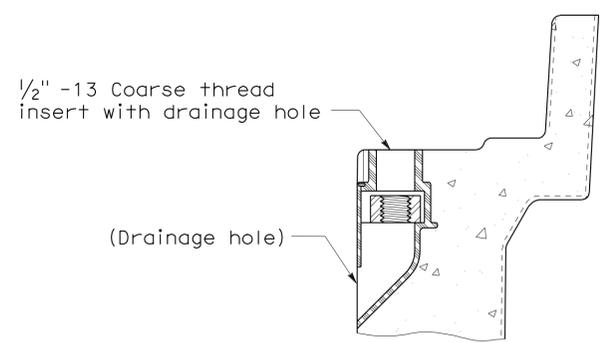
INSTALLATION DETAILS
DETAIL A



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
(Or similar)



TYPICAL THREADED INSERT
(Or similar)

NOTES ON PULL BOXES:

- Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
 - No. 3/2 pull box.
 - "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - No. 5, 6, 9 or 9A pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - "RAMP METER" - Ramp meter circuits.
 - "COUNT STATION" - Count or speed monitor circuits.
 - "COMMUNICATIONS" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communication line.
 - "TOS POWER" - TOS power.
 - "TDC POWER" - Telephone demarcation cabinet power.
 - "CCTV" - Closed circuit television circuits.
 - "TMS" - Traffic monitoring station circuits.
 - "CMS" - Changeable message sign circuits.
 - "HAR" - Highway advisory radio circuits.
- The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions (L and W) plus 1/8" or greater.
- Covers and boxes must be interchangeable with California Standard. When interchanged with a standard, the top surfaces must be flush within 1/8". Top outside radius of covers and pull boxes must have a 1/8" radius.
- Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.

| DIMENSION TABLE | | | | | | | | | | |
|-----------------|-------------------|-------------------------|----------------|--------------|-------------|--------|----|------|--------|----------------|
| PULL BOX | PULL BOX | | | COVER | | | | | | |
| | Minimum Depth Box | Minimum Depth Extension | Maximum Weight | L | W | R | TE | TA | D | Maximum Weight |
| No. 3/2 | 12" | N/A | 40 lb | 1' - 3 3/8" | 10 1/8" | 1 3/8" | 2" | 1/8" | 1 3/4" | 30 lb |
| No. 5 | 12" | 10" | 55 lb | 1' - 11 1/4" | 1' - 1 3/4" | 1 3/8" | 2" | 1/8" | 1 3/4" | 60 lb |
| No. 6 | 12" | 10" | 70 lb | 2' - 6 1/2" | 1' - 5 1/2" | 1 3/8" | 2" | 1/8" | 2" | 85 lb |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(PULL BOX)
NO SCALE

NSP ES-8A DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP ES-8A