

INDEX OF PLANS

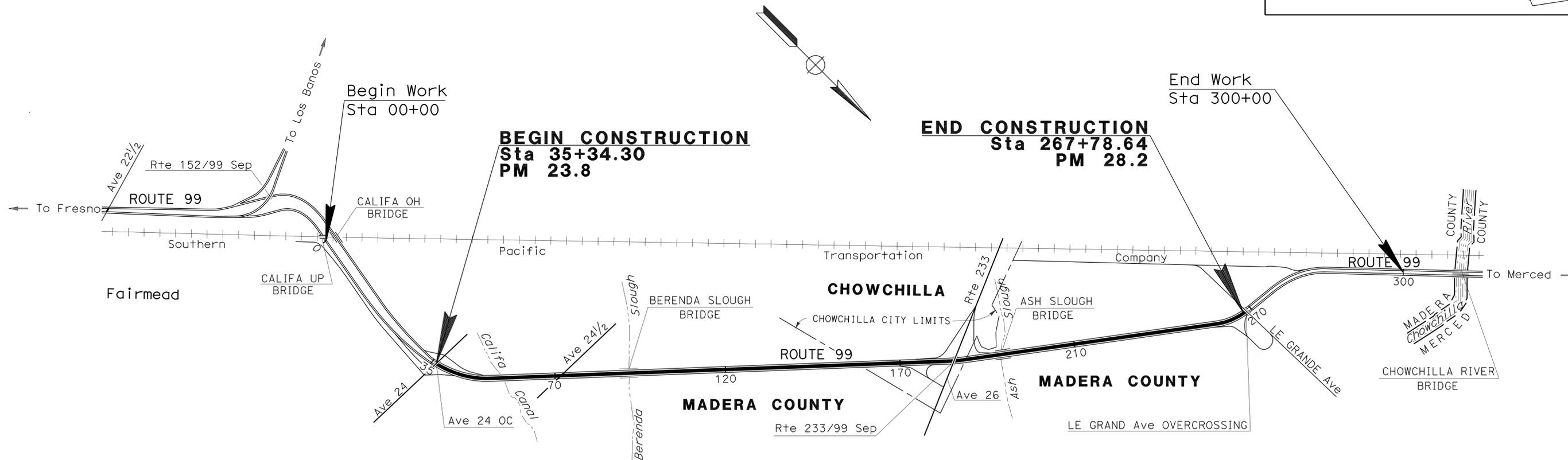
| SHEET No. | DESCRIPTION |
|-----------|--------------------------------|
| 1 | TITLE AND LOCATION MAP |
| 2 | TYPICAL CROSS SECTIONS |
| 3-17 | CONSTRUCTION DETAILS |
| 18 | CONSTRUCTION AREA SIGNS |
| 19 | SUMMARY OF QUANTITIES |
| 20-39 | REVISED AND NEW STANDARD PLANS |

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

STATE OF CALIFORNIA ACHSNHG-P099(558)E
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

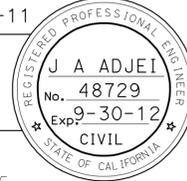
IN MADERA COUNTY
IN AND NEAR CHOWCHILLA
FROM AVENUE 24 OVERCROSSING
TO LE GRANDE AVENUE OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER
SUZIE HOLDRIDGE
 DESIGN ENGINEER
ABDUL BAKER

Jonathan A. Adjei 09-27-11
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
December 19, 2011
 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.



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

NO SCALE

| | |
|--------------|------------------|
| CONTRACT No. | 06-0L2004 |
| PROJECT ID | 060000294 |

DATE PLOTTED => 07-FEB-2012 TIME PLOTTED => 15:24

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 4 | 39 |

Jonathan A. Adjei 09-27-11
 REGISTERED CIVIL ENGINEER DATE
 12-19-11
 PLANS APPROVAL DATE
 No. 48729
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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

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

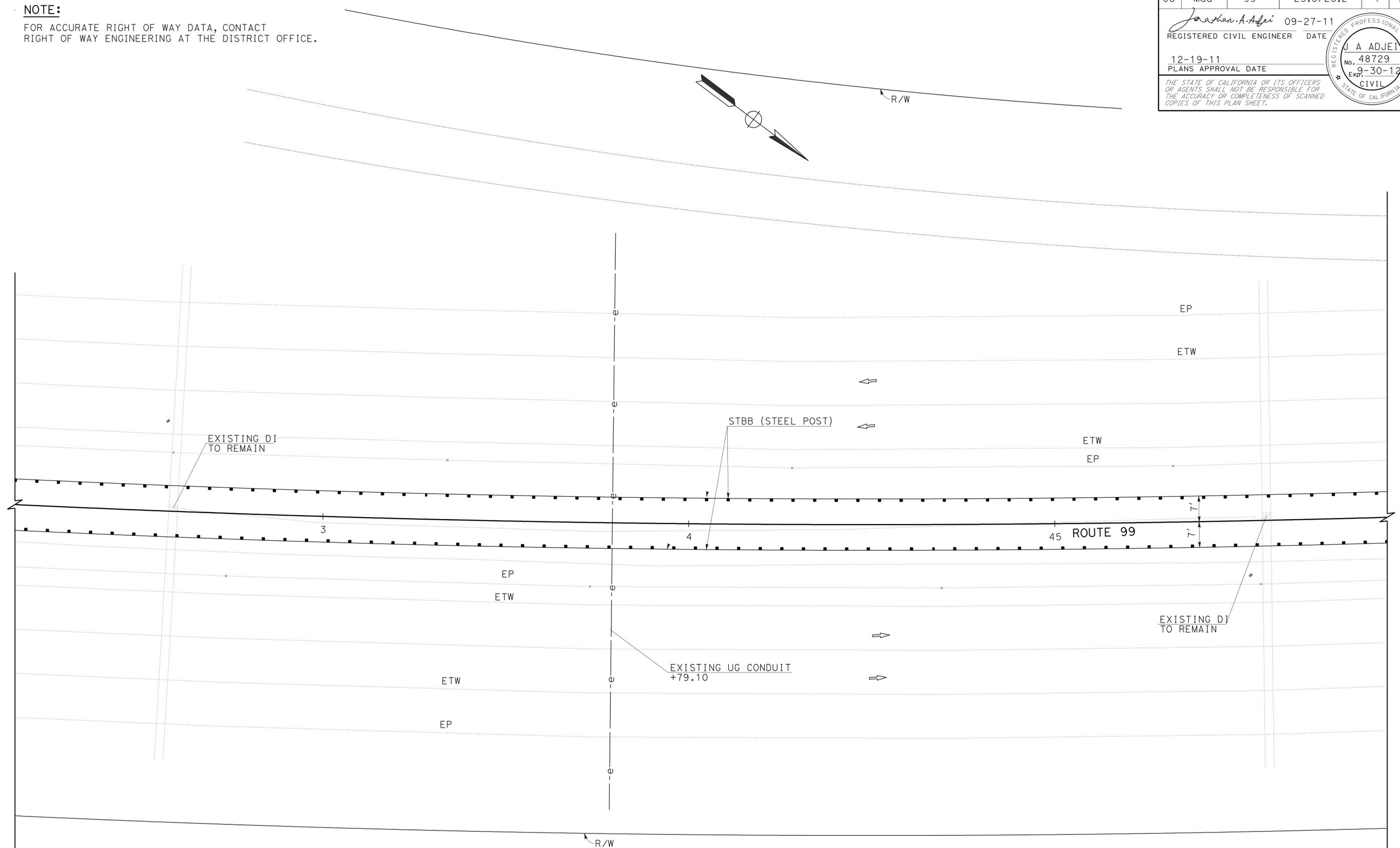
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR
 ABDUL BAKER

CALCULATED/DESIGNED BY
 CHECKED BY

LINH NGUYEN
 JONATHAN ADJEI

REVISED BY
 DATE REVISED



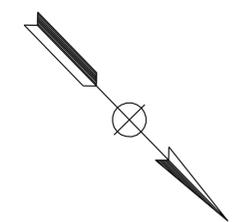
EXISTING UTILITIES BETWEEN STATIONS 42+00.00 AND 46+00.00

CONSTRUCTION DETAILS
C-2
 NO SCALE

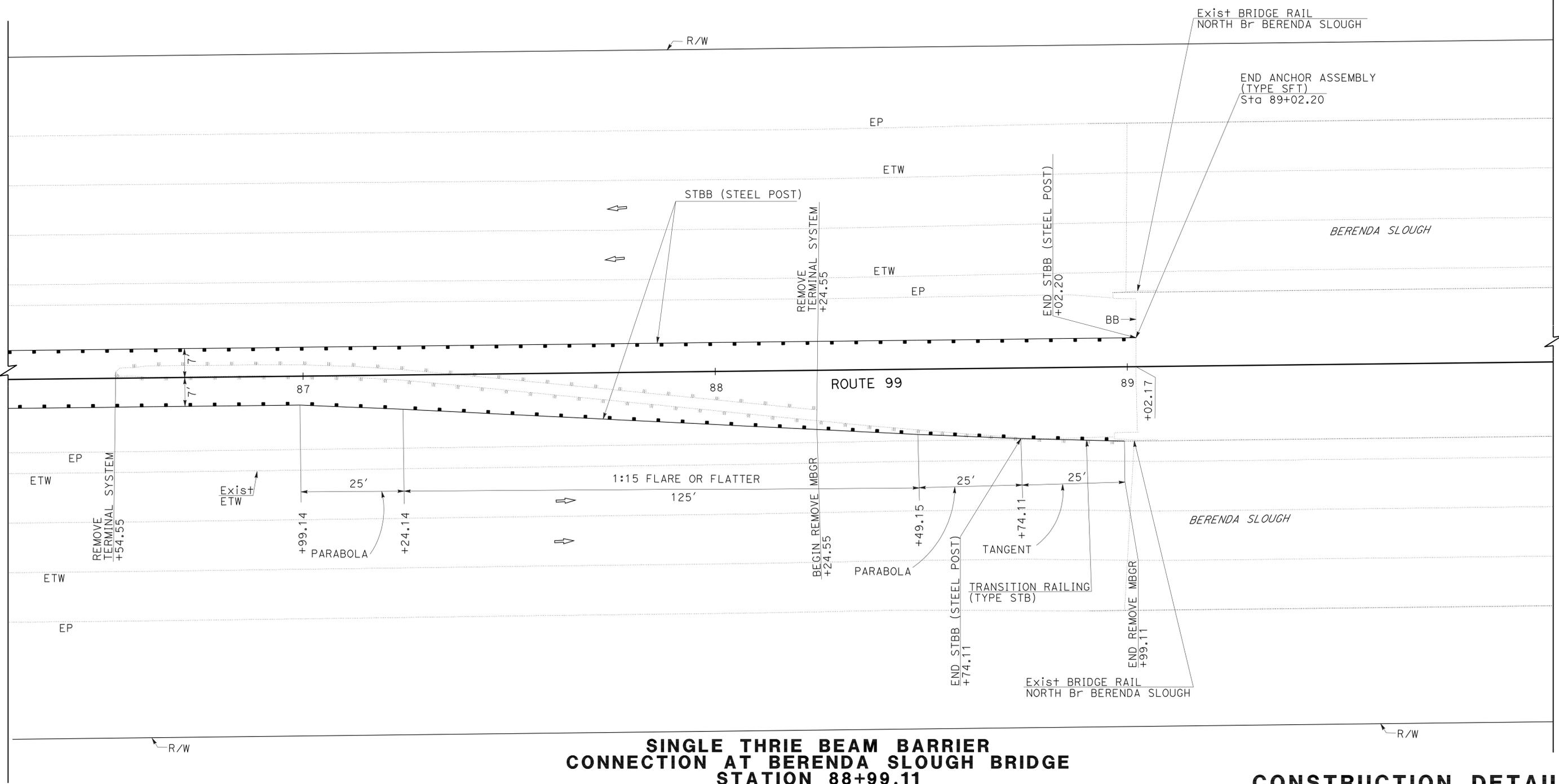
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| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Mad | 99 | 23.8/28.2 | 7 | 39 |

Jonathan A. Adjei 09-27-11
 REGISTERED CIVIL ENGINEER DATE
 12-19-11
 PLANS APPROVAL DATE
 No. 48729
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
 FUNCTIONAL SUPERVISOR: ABDUL BAKER
 CALCULATED/DESIGNED BY: JONATHAN ADJEI
 CHECKED BY:
 REVISIONS:
 REVISION NO. | DATE | BY | DESCRIPTION
 1 | 12-19-11 | J.A.A. | PLANS APPROVAL



**SINGLE THRIE BEAM BARRIER
 CONNECTION AT BERENDA SLOUGH BRIDGE
 STATION 88+99.11**

CONSTRUCTION DETAILS
 NO SCALE
C-5

LAST REVISION | DATE PLOTTED => 20-DEC-2011 | TIME PLOTTED => 08:31

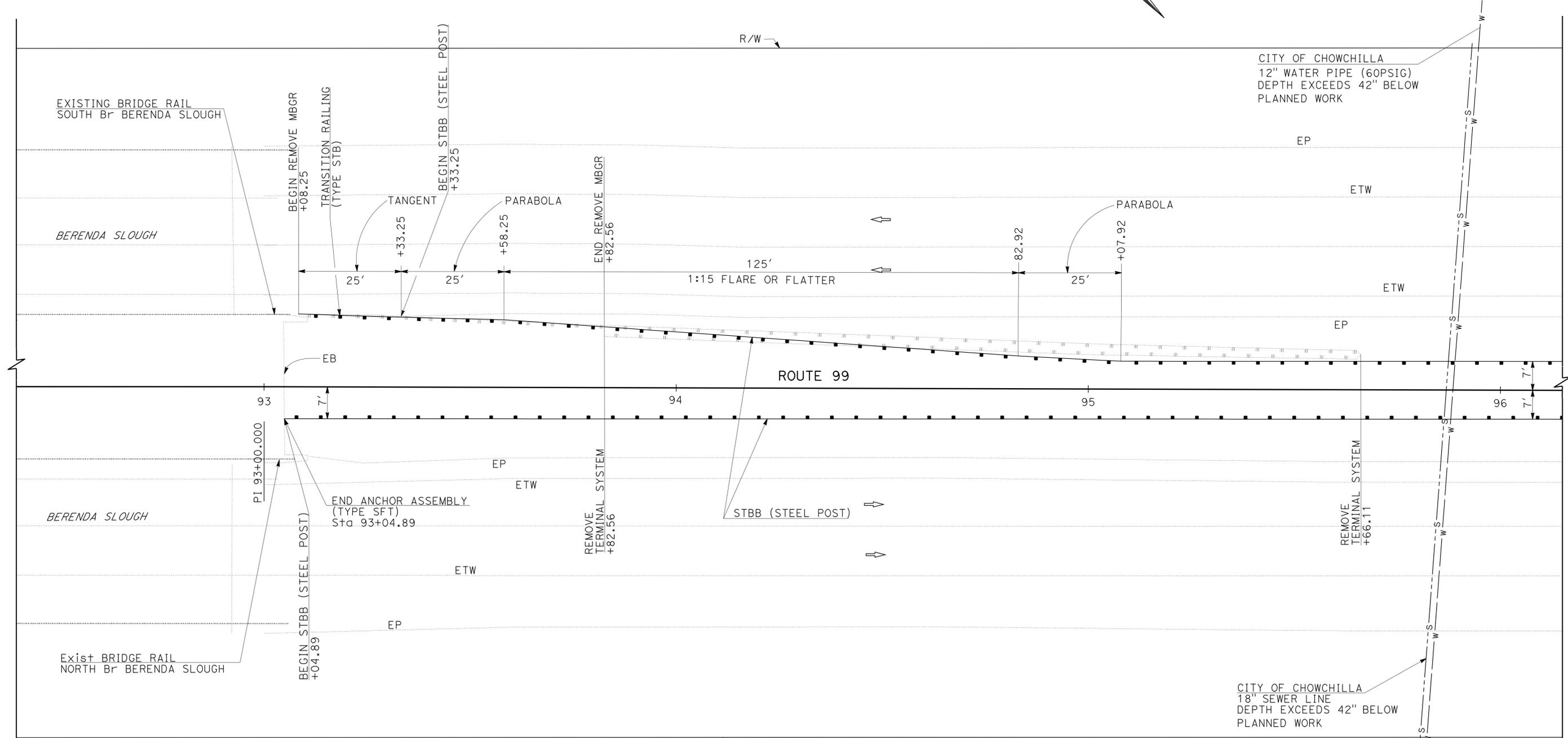
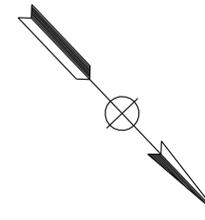
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| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Mad | 99 | 23.8/28.2 | 8 | 39 |

| | |
|-----------------------------------|---------------------|
| <i>Jonathan A. Adjei</i> 09-27-11 | |
| REGISTERED CIVIL ENGINEER | DATE |
| 12-19-11 | PLANS APPROVAL DATE |

| | |
|----------------------------------|--|
| REGISTERED PROFESSIONAL ENGINEER | |
| J A ADJEI | |
| No. 48729 | |
| Exp. 9-30-12 | |
| CIVIL | |

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



**SINGLE THREE BEAM BARRIER
CONNECTION AT BERENDA SLOUGH BRIDGE
STATION 93+08.25 AND
EXISTING UTILITIES BETWEEN STATIONS 95+00.00 AND 96+00.00**

CONSTRUCTION DETAILS
NO SCALE
C-6

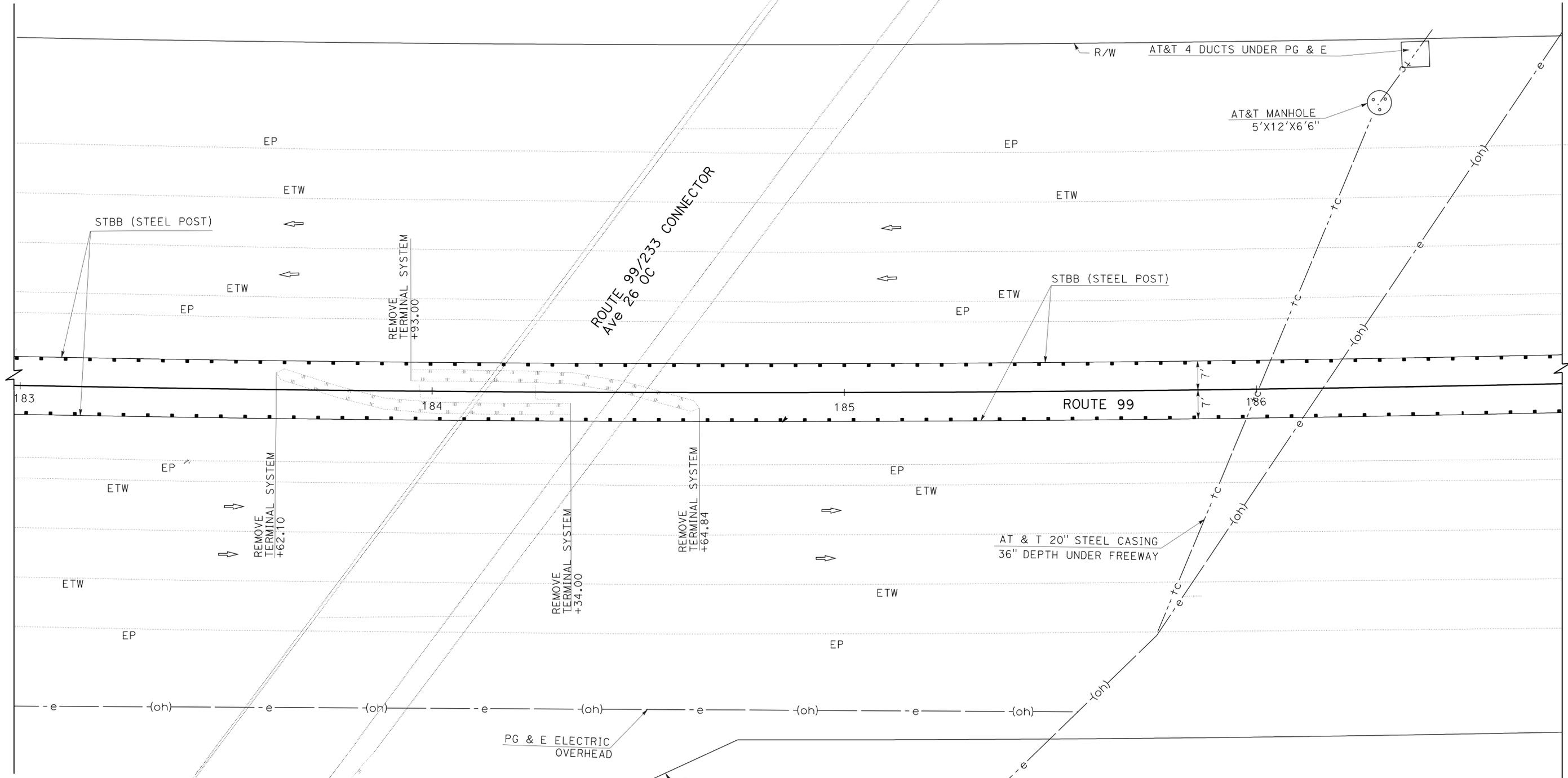
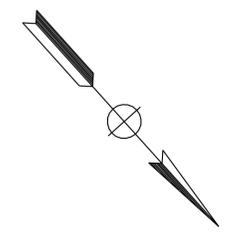
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: ABDUL BAKER
CALCULATED/DESIGNED BY: [blank]
CHECKED BY: [blank]
REVISOR: LINH NGUYEN
DATE: [blank]
REVISOR: JONATHAN ADJEI
DATE: [blank]

| | | | | | |
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| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Mad | 99 | 23.8/28.2 | 11 | 39 |

Jonathan A. Adjei 09-27-11
 REGISTERED CIVIL ENGINEER DATE
 12-19-11
 PLANS APPROVAL DATE
 No. 48729
 Exp. 9-30-12
 CIVIL
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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



EXISTING UTILITIES BETWEEN STATIONS 185+00.00 AND 187+00.00

CONSTRUCTION DETAILS
 NO SCALE
C-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
 FUNCTIONAL SUPERVISOR: ABDUL BAKER
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 CHECKED BY: [blank]
 LINH NGUYEN
 JONATHAN ADJEI
 REVISED BY: [blank]
 DATE REVISED: [blank]

LAST REVISION: [blank]
 DATE PLOTTED => 20-DEC-2011
 TIME PLOTTED => 08:32

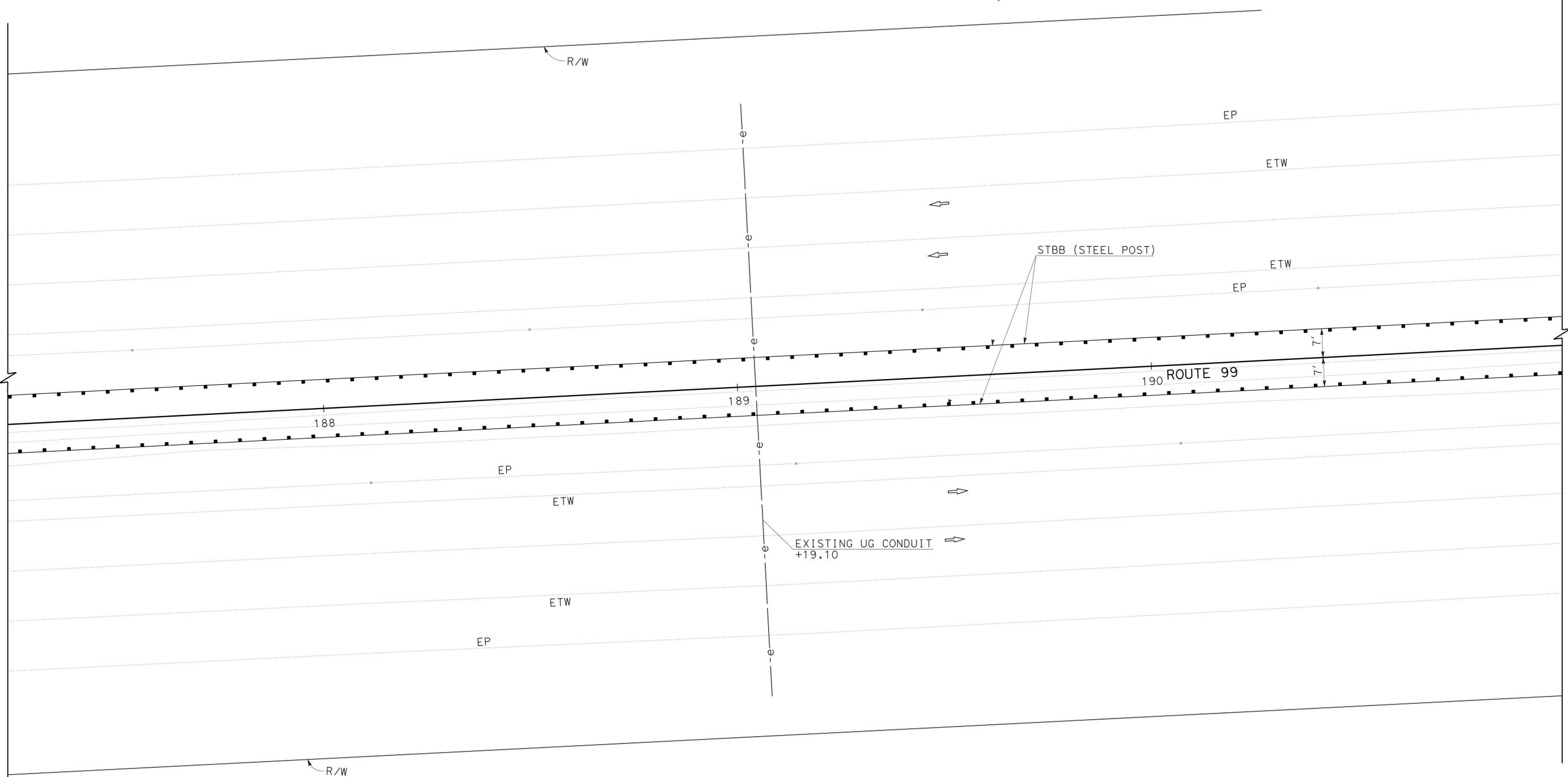
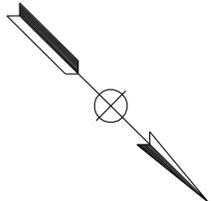
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|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Mad | 99 | 23.8/28.2 | 12 | 39 |

| | |
|---------------------------|----------|
| <i>Jonathan A. Adjei</i> | 09-27-11 |
| REGISTERED CIVIL ENGINEER | DATE |
| 12-19-11 | |
| PLANS APPROVAL DATE | |

| |
|----------------------------------|
| REGISTERED PROFESSIONAL ENGINEER |
| J A ADJEI |
| No. 48729 |
| Exp. 9-30-12 |
| CIVIL |
| STATE OF CALIFORNIA |

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



EXISTING UTILITIES BETWEEN STATIONS 189+00.00 AND 190+00.00

CONSTRUCTION DETAILS
NO SCALE
C-10

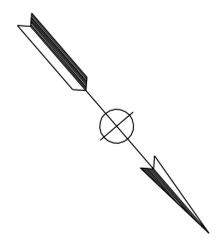
| | |
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| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN |
| FUNCTIONAL SUPERVISOR | ABDUL BAKER |
| CALCULATED/DESIGNED BY | CHECKED BY |
| LINH NGUYEN | JONATHAN ADJEI |
| REVISOR | DATE |
| REVISOR | DATE |

LAST REVISION DATE PLOTTED => 20-DEC-2011 TIME PLOTTED => 07:08

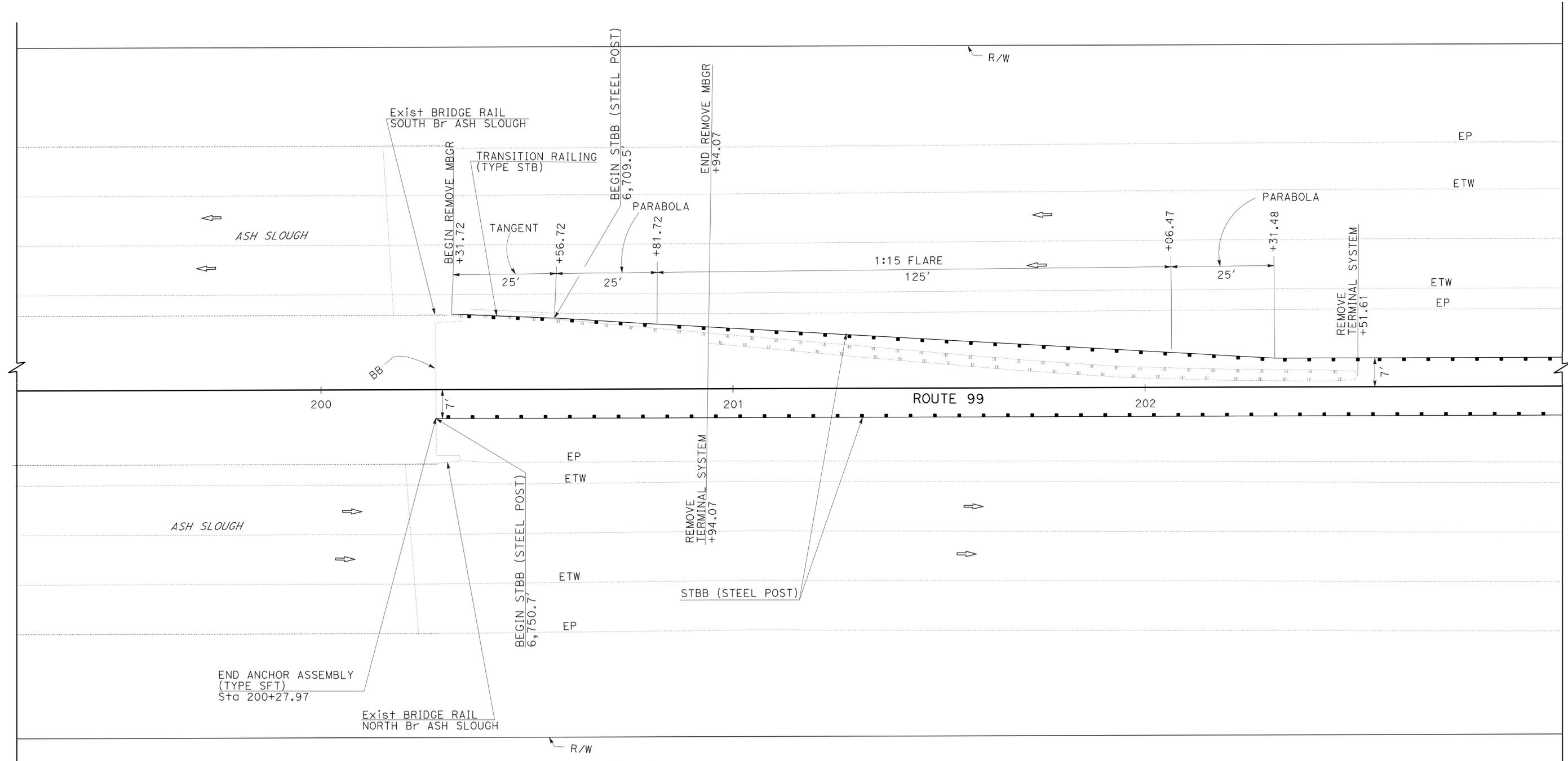
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 14 | 39 |

Jonathan A. Adjei 09-27-11
 REGISTERED CIVIL ENGINEER DATE
 12-19-11
 PLANS APPROVAL DATE
 No. 48729
 Exp. 9-30-12
 CIVIL
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
 FUNCTIONAL SUPERVISOR: ABDUL BAKER
 CALCULATED/DESIGNED BY: JONATHAN ADJEI
 CHECKED BY:
 LINH NGUYEN
 JONATHAN ADJEI
 REVISIONS BY: []
 DATE REVISIONS: []



**SINGLE THRIE BEAM BARRIER
 CONNECTION AT BERENDA SLOUGH BRIDGE
 STATION 200+31.72**

CONSTRUCTION DETAILS
C-12
 NO SCALE

LAST REVISION | DATE PLOTTED => 20-DEC-2011 | TIME PLOTTED => 06:33

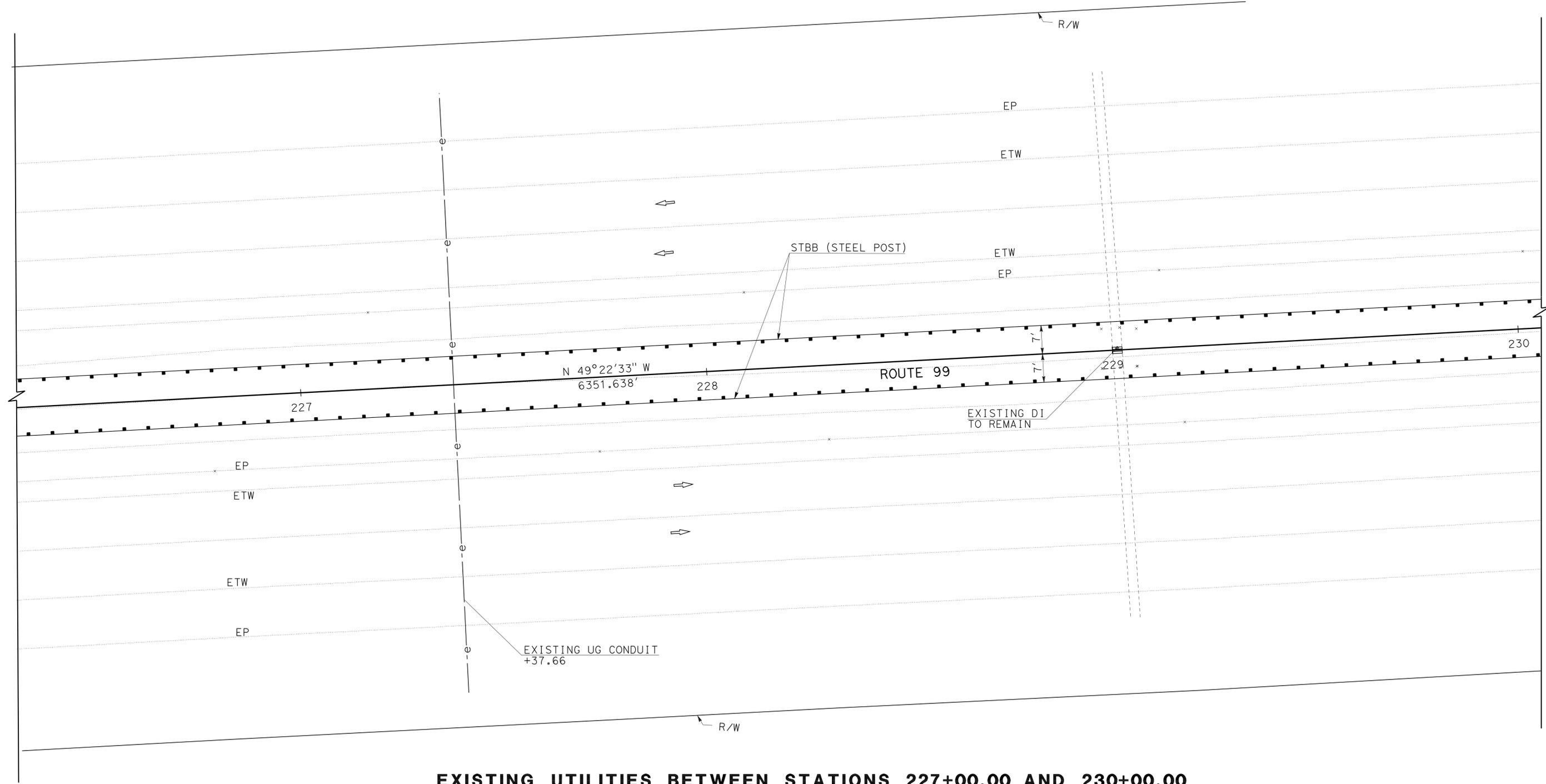
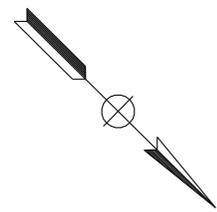
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 15 | 39 |

| | |
|-----------------------------------|------|
| <i>Jonathan A. Adjei</i> 09-27-11 | |
| REGISTERED CIVIL ENGINEER | DATE |
| 12-19-11 | |
| PLANS APPROVAL DATE | |

| | |
|----------------------------------|--|
| REGISTERED PROFESSIONAL ENGINEER | |
| J A ADJEI | |
| No. 48729 | |
| Exp. 9-30-12 | |
| CIVIL | |

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



EXISTING UTILITIES BETWEEN STATIONS 227+00.00 AND 230+00.00

CONSTRUCTION DETAILS
NO SCALE
C-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
 FUNCTIONAL SUPERVISOR: ABDUL BAKER
 CALCULATED/DESIGNED BY: [blank] CHECKED BY: [blank]
 LINH NGUYEN JONATHAN ADJEI
 REVISED BY: [blank] DATE REVISED: [blank]

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

| SIGN No. | SIGN CODE | PANEL SIZE | SIGN MESSAGE | No. OF POSTS | POST SIZE | No. OF SIGNS |
|----------|-----------|------------|---|--------------|-----------|--------------|
| (A) | W20-1 | 60" x 60" | ROAD WORK AHEAD | 2 | 6" x 6" | 4 |
| (B) | W20-1 | 48" x 48" | ROAD WORK AHEAD | 1 | 6" x 6" | 3 |
| (C) | G20-2 | 60" x 24" | END ROAD WORK | 2 | 4" x 4" | 4 |
| (E) | C40 | 102" x 42" | TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES | 2 | 6" x 6" | 2 |

NOTES: 1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR SIGN "C40" (TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES), ALL LETTERS SHALL BE BLACK ON WHITE BACKGROUND.

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Mad | 99 | 23.8/28.2 | 18 | 39 |

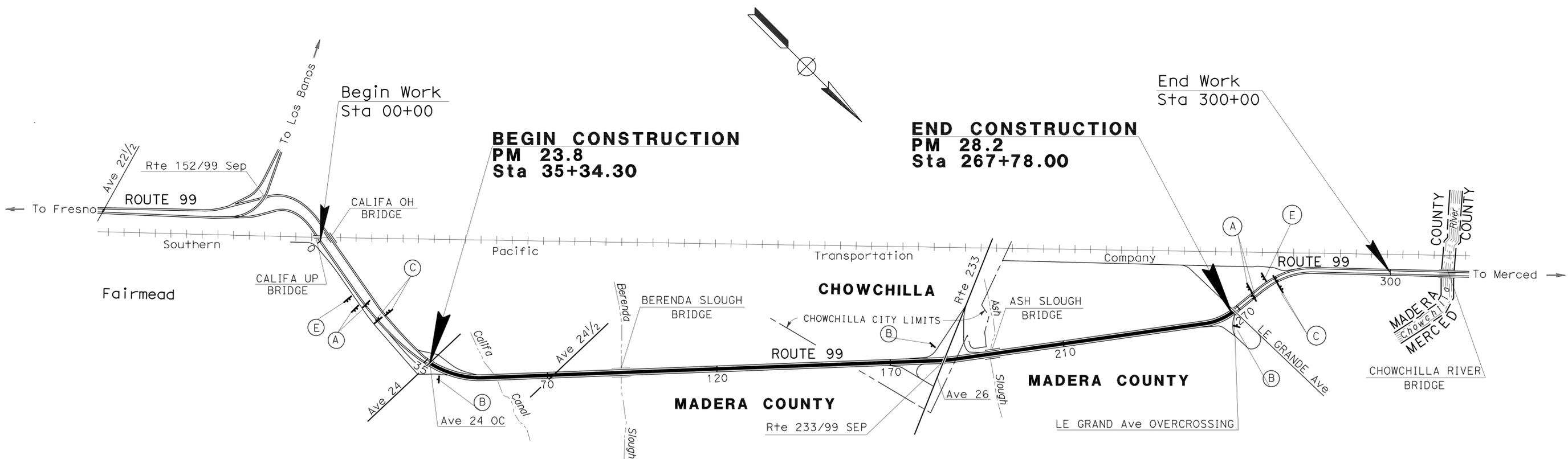
Hassan Co. 02-24-10
REGISTERED CIVIL ENGINEER DATE

12-19-11
PLANS APPROVAL DATE

HASSAN M. TAHA
No. 60130
Exp 06/30/12
CIVIL

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

A.S. 07-02-10
 HASSAN TAHA
 KEVIN NGUYEN
 MOHAMED QATAMI
 DEPARTMENT OF TRANSPORTATION
 06 - TRAFFIC DESIGN
 Caltrans®



CONSTRUCTION AREA SIGN

NO SCALE

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN ONLY.

LAST REVISION: 04-06-11 DATE PLOTTED => 20-DEC-2011 TIME PLOTTED => 08:32

THRIE BEAM BARRIER

| LOCATION | DIRECTION | SINGLE THRIE BEAM BARRIER (STEEL POST) | REMOVE MBGR | REMOVE TERMINAL SYSTEM | END ANCHOR ASSEMBLY (TYPE SFT) | TRANSITION RAILING (TYPE STB) | (N) | REMOVE CRASH CUSHION | REMOVE SINGLE THRIE BEAM BARRIER |
|-------------------------|-----------|--|-------------|------------------------|--------------------------------|-------------------------------|----------|----------------------|----------------------------------|
| | | LF | LF | EA | EA | EA | LF | EA | LF |
| Sta 35+96.01-36+02.31 | NB | 6.3* | | | | | | | |
| Sta 35+34.30-35+40.60 | SB | 6.3* | | | | | | | |
| Sta 35+34.30-36+17.22 | SB | | 105.6 | | | | | | |
| Sta 35+96.01-36+17.22 | NB | | 21.2 | | | | | | |
| Sta 36+02.31-88+74.11 | NB | 5,271.8 | | | | | 5,271.8 | | |
| Sta 36+18.59-36+57.00 | ℄ | | | | | | | 1 | |
| Sta 35+40.60-89+02.17 | SB | 5,361.6 | | | | | 5,361.6 | | |
| Sta 86+54.55-88+24.55 | ℄ | | | 1 | | | | | |
| Sta 88+24.55-88+99.11 | NB | | 74.6 | | | | | | |
| Sta 88+74.11-88+99.11 | NB | | | | | 1 | | | |
| Sta 89+02.17 | SB | | | | 1 | | | | |
| Sta 93+04.89 | NB | | | | 1 | | | | |
| Sta 93+08.25-93+33.25 | SB | | | | | 1 | | | |
| Sta 93+08.25-93+82.56 | SB | | 74.3 | | | | | | |
| Sta 93+82.56-95+66.11 | ℄ | | | 1 | | | | | |
| Sta 93+33.25-195+95.67 | SB | 10,262.4 | | | | | 10,262.4 | | |
| Sta 93+04.89-195+67.42 | NB | 10,262.5 | | | | | 10,262.5 | | |
| Sta 183+62.10-184+34.00 | NB | | | 1 | | | | | |
| Sta 183+93.00-184+64.84 | SB | | | 1 | | | | | |
| Sta 193+60.16-195+42.43 | ℄ | | | 1 | | | | | |
| Sta 195+42.43-194+92.42 | NB | | 50.0 | | | | | | |
| Sta 195+67.42-195+92.42 | NB | | | | | 1 | | | |
| Sta 195+95.67 | SB | | | | 1 | | | | |
| Sta 200+27.97 | NB | | | | 1 | | | | |
| Sta 200+31.72-200+56.72 | SB | | | | | 1 | | | |
| Sta 200+31.72-200+94.07 | SB | | 62.4 | | | | | | |
| Sta 200+94.07-202+51.61 | ℄ | | | 1 | | | | | |
| Sta 200+56.72-267+66.21 | SB | 6,709.5 | | | | | 6,709.5 | | |
| Sta 200+27.97-267+78.64 | NB | 6,750.7 | | | | | 6,750.7 | | |
| Sta 267+09.48-267+41.18 | ℄ | | | | | | | 1 | |
| Sta 267+42.99-267+66.21 | SB | | | | | | | | 23.2 |
| Sta 267+42.99-267+78.64 | NB | | | | | | | | 35.7 |
| TOTAL | | 44,631.1 | 388.1 | 6 | 4 | 4 | 44,618.5 | 2 | 58.9 |

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
 * TRANSITION SECTION

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Mad | 99 | 23.8/28.2 | 19 | 39 |

Jonathan A. Adjei 09-27-11
 REGISTERED CIVIL ENGINEER DATE

12-19-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 No. 48729
 Exp. 9-30-12
 CIVIL

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

ROADWAY QUANTITIES

| LOCATION | ROADWAY EXCAVATION | (N) EMBANKMENT | IMPORTED BORROW |
|-------------------------|--------------------|----------------|-----------------|
| | CY | CY | CY |
| Sta 200+50.00-267+78.00 | 478.0 | 1415.6 | 1009.5 |
| TOTAL | 478.0 | 1415.6 | 1009.5 |

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

TEMPORARY WATER POLLUTION CONTROL

| LOCATION | TEMPORARY DRAINAGE INLET PROTECTION | TEMPORARY FIBER ROLL (TYPE 2) |
|----------------------------|-------------------------------------|-------------------------------|
| | EA | LF |
| Sta 36+44.00 | 1 | |
| Sta 36+65.00 | 1 | |
| Sta 39+62.00 | 1 | |
| Sta 42+59.00 | 1 | |
| Sta 45+58.00 | 1 | |
| Sta 54+04.30 | 1 | |
| Sta 69+04.20 | 1 | |
| Sta 109+03.40 | 1 | |
| Sta 141+03.00 | 1 | |
| Sta 154+03.20 | 1 | |
| Sta 171+03.00 | 1 | |
| Sta 229+01.00 | 1 | |
| Sta 246+76.00 | 1 | |
| Sta 262+00.00 | 1 | |
| Sta 200+50.00 TO 266+50.00 | | 13,200 |
| TOTAL | 14 | 13,200 |

SUMMARY OF QUANTITIES
Q-1

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Mad | 99 | 23.8/28.2 | 20 | 39 |

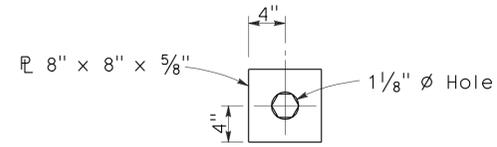
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

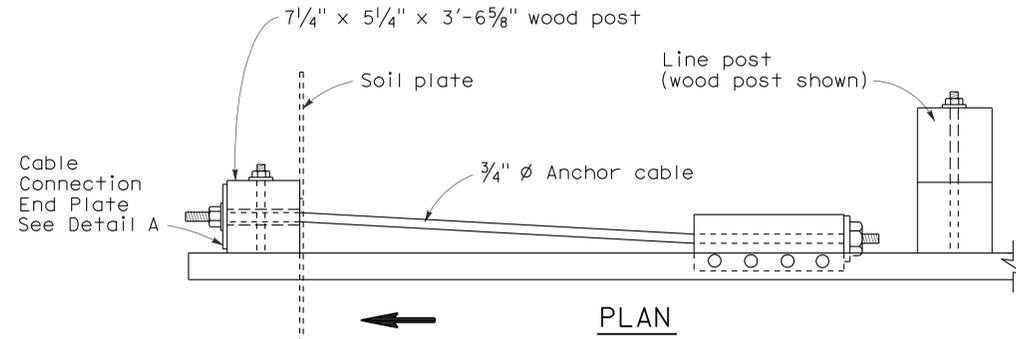
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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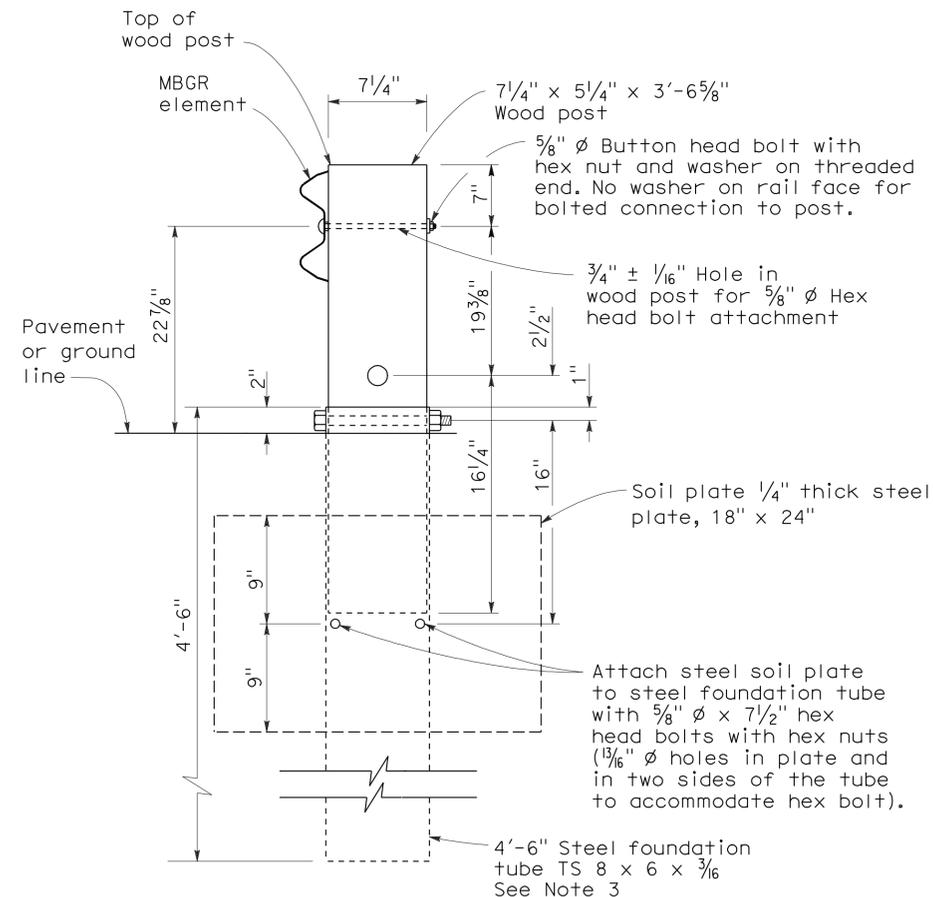
To accompany plans dated 12-19-11



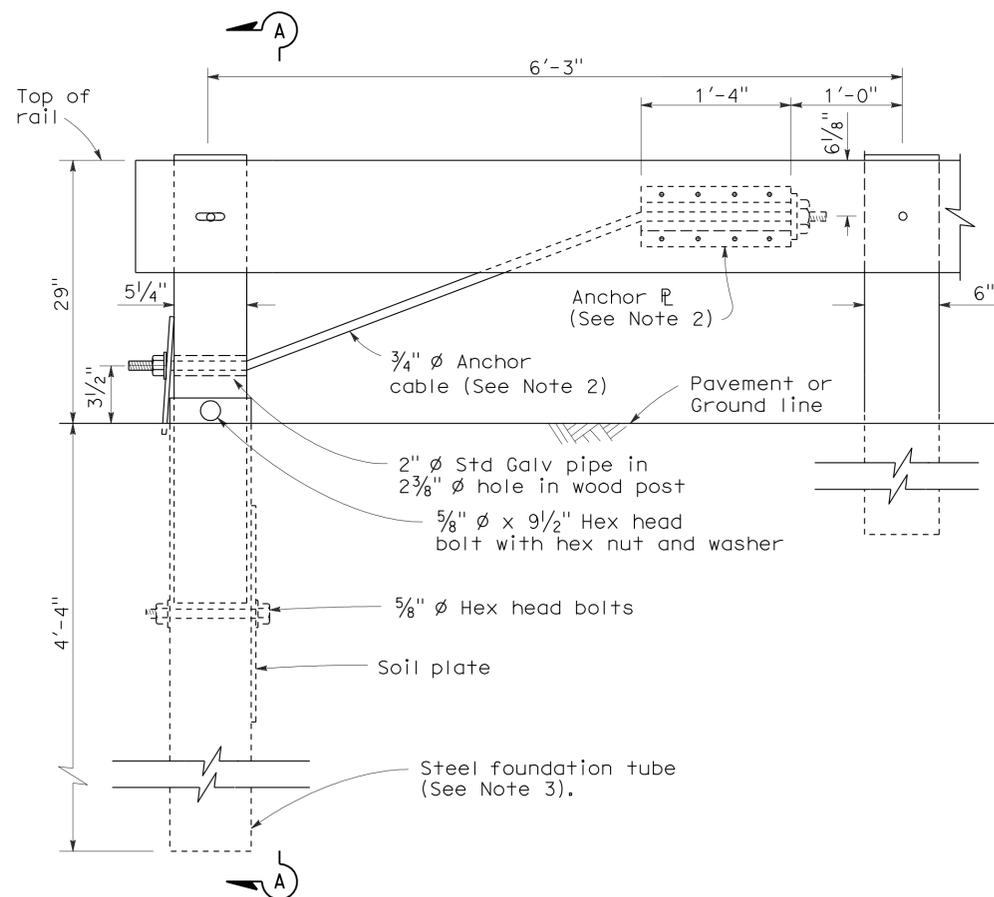
DETAIL A
CABLE CONNECTION
END PLATE



PLAN



SECTION A-A



ELEVATION
END ANCHOR
ASSEMBLY (TYPE SFT)
See Note 1

NOTES:

1. See the A77E, A77F and A77G series of Standard Plans for typical use of End Anchor Assembly (Type SFT).
2. For details of the anchor plate and 3/4" cable, see Standard Plan A77H3.
3. A 6'-0" length steel foundation tube, TS 8 x 6 x 3/16, without a soil plate, may be furnished and installed in place of the 4'-6" length steel foundation tube and soil plate shown. Minimum embedment of the 6'-0" length tube shall be 5'-9". A 5/8" diameter hex head bolt and nut shall be installed in the hole in the 6'-0" length tube to keep the wood post from dropping into the tube.
4. Direction of traffic indicated by →.
5. Install line post, steel foundation tube and soil plate in soil.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
METAL RAILING
END ANCHOR ASSEMBLY
(TYPE SFT)

NO SCALE

RSP A77H1 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77H1
DATED MAY 1, 2006 - PAGE 67 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77H1

2006 REVISED STANDARD PLAN RSP A77H1

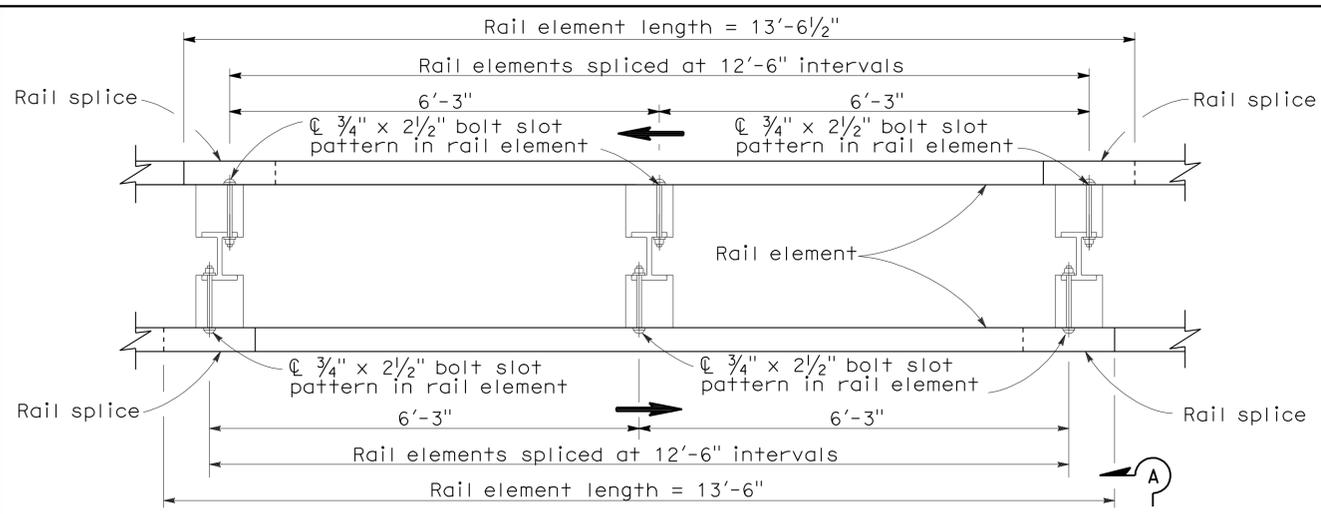
| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 06 | Mad | 99 | 23.8/28.2 | 21 | 39 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

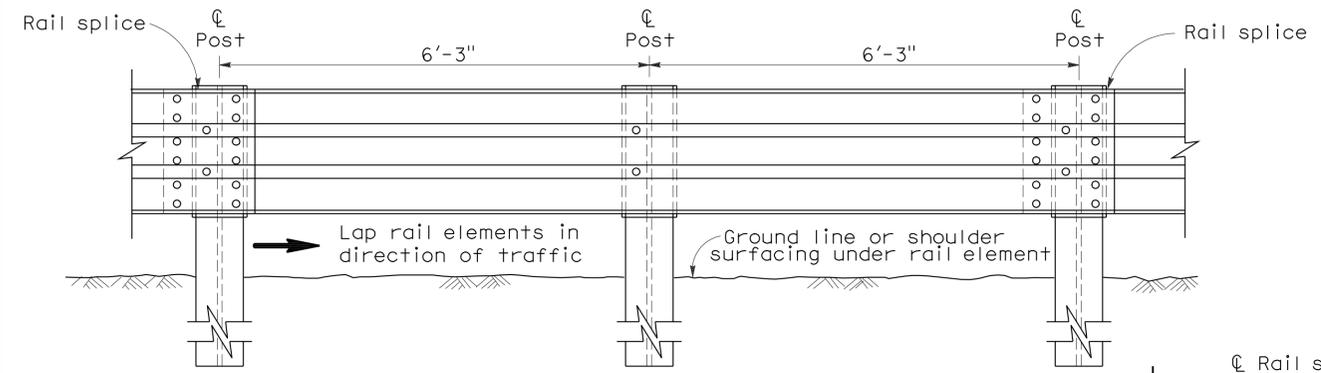
June 6, 2008
PLANS APPROVAL DATE

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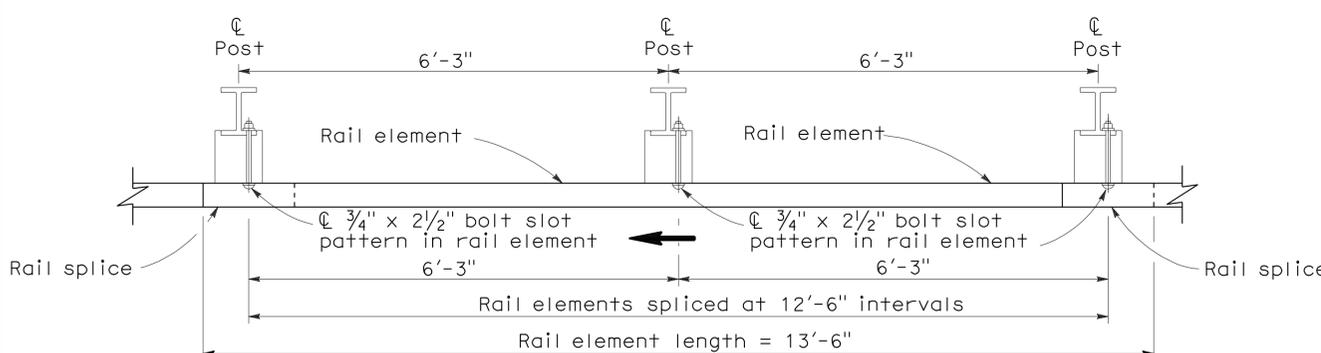
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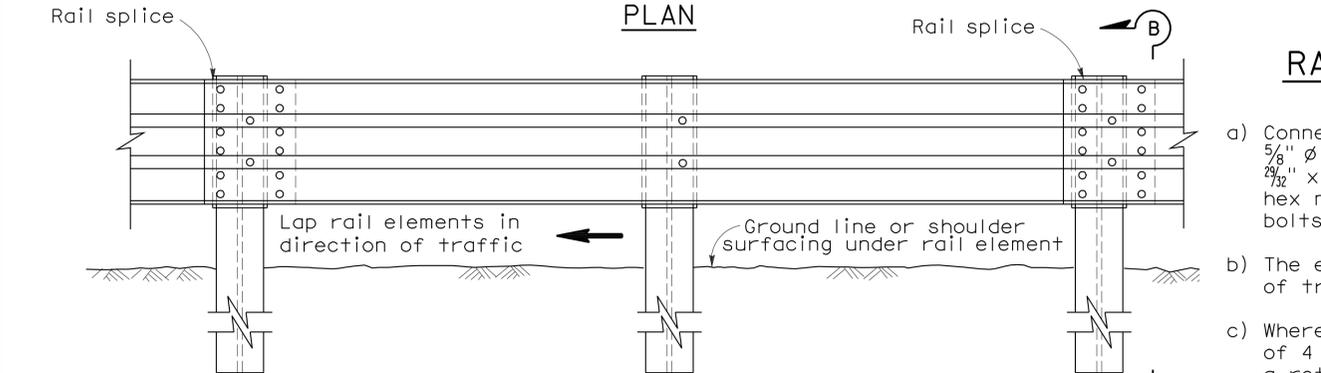
PLAN
DOUBLE THRIE BEAM BARRIER
(Steel post with notched wood or notched plastic blocks)
See Note 1



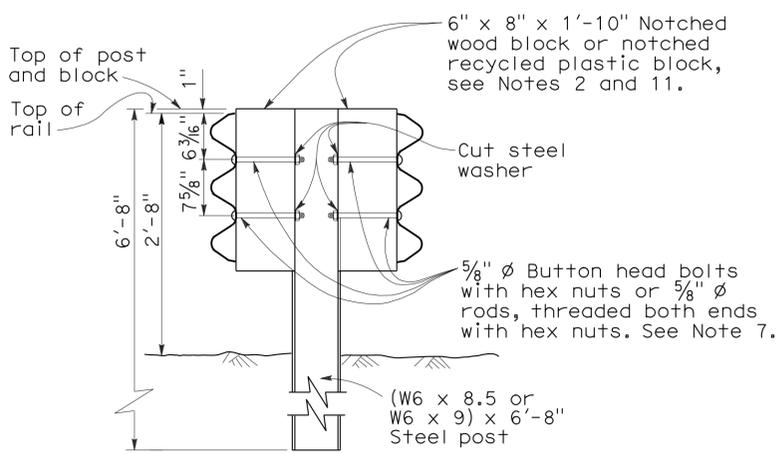
ELEVATION
DOUBLE THRIE BEAM BARRIER
(Steel post with notched wood or notched plastic blocks)
See Note 1



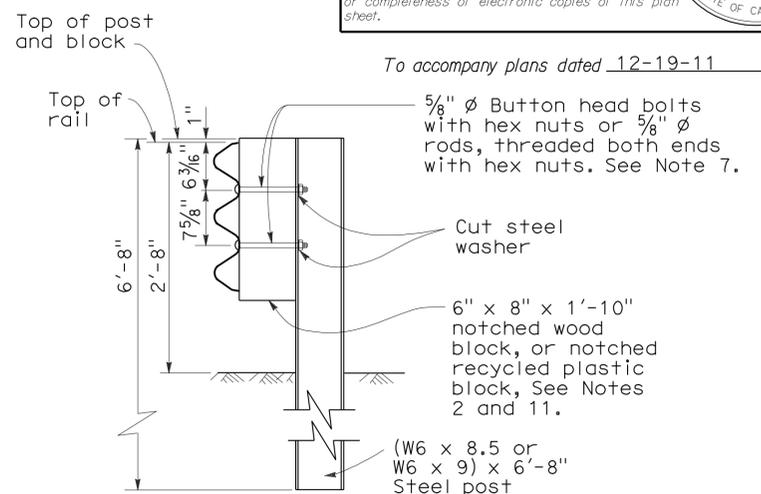
PLAN
SINGLE THRIE BEAM BARRIER
(Steel post with notched wood or notched plastic blocks)
See Note 1



ELEVATION
SINGLE THRIE BEAM BARRIER
(Steel post with notched wood or notched plastic blocks)
See Note 1

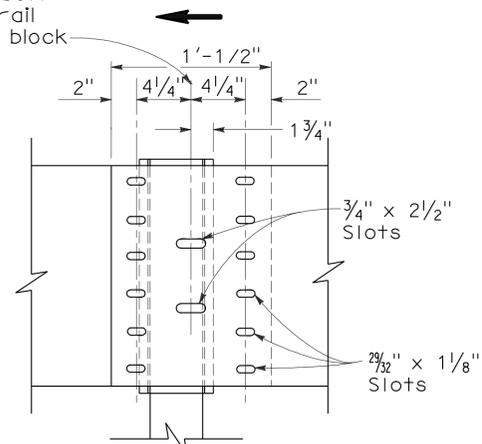


SECTION A-A
TYPICAL STEEL LINE POST INSTALLATION



SECTION B-B
TYPICAL STEEL LINE POST INSTALLATION

⊙ Rail splice and slots for 5/8" ⌀ button head bolt to connect rail to post and block



ELEVATION
RAIL ELEMENT SPLICE DETAIL

- Connect the overlapped ends of the thrie beam rail elements with 5/8" ⌀ x 1 1/8" button head oval shoulder bolts inserted into the 29/32" x 1 1/8" slots and bolted together with 5/8" ⌀ x 1 1/8" recessed hex nuts. Recess of hex nut points toward rail element. A total of 12 bolts and nuts are to be used at each rail splice connection.
- The ends of the rail elements are to be overlapped in the direction of traffic (see details).
- Where end cap is to be attached to the end of a rail element, a total of 4 of the above described splice bolts and nuts are to be used. Where a return cap is to be attached to the ends of rail elements, a total of 8 of the above described splice bolts and nuts are to be used.

NOTES:

- For details of the cross section of the thrie beam rail element and details for wood post with wood block installations, see Standard Plan A78A.
- For details of standard hardware, posts and blocks used to construct thrie beam barrier, see Revised Standard Plan RSP A78C1 and Standard Plan A78C2.
- Thrie beam barrier post spacing to be 6'-3" center to center, except as otherwise noted.
- Top of barrier rail to be 2'-8" above ground line or shoulder surfacing under the rail element.
- For barrier end treatments and barrier connections, see Standard Plans A78E1, A78E2 and A78E3, Revised Standard Plans RSPs A78F1 and A78F2, Standard Plan A78G and Revised Standard Plan RSP A78H.
- For connection to Concrete Barrier, see Revised Standard Plan RSP A78I.
- Attach rail element to block and steel post with 2 bolts or rods on approaching traffic side of block and post web. No washer on rail face for rod or bolted connections to line post.
- For details of thrie beam barrier on bridges, see Standard Plan A78D2. For details of thrie beam barrier at fixed objects, see Standard Plan A78D1.
- Direction of traffic indicated by →.
- Notched face of block faces steel post.

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**THRIE BEAM BARRIER
STANDARD BARRIER RAILING
SECTION (STEEL POST
WITH NOTCHED WOOD BLOCK
OR NOTCHED RECYCLED
PLASTIC BLOCK)**

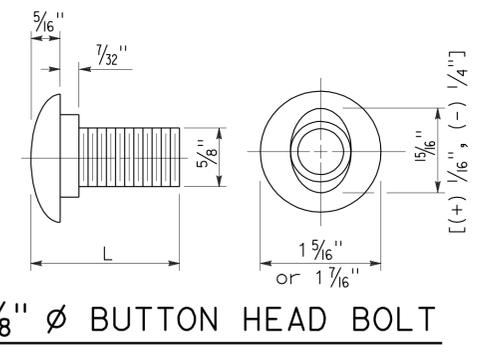
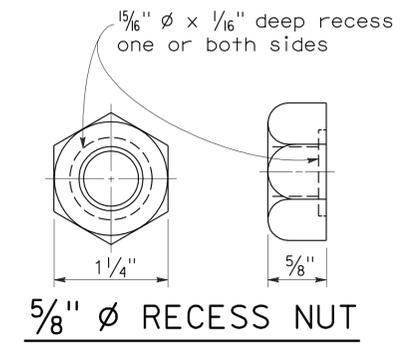
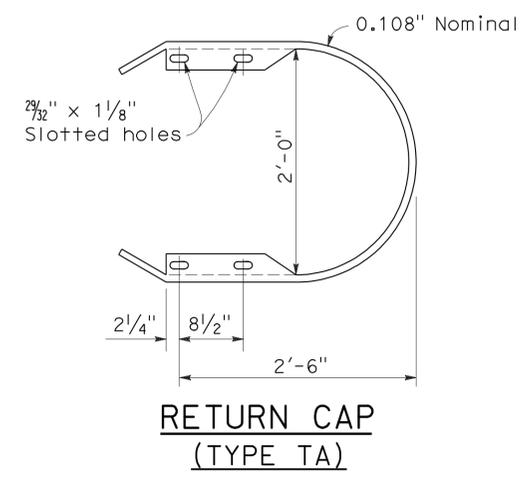
NO SCALE

RSP A78B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A78B
DATED MAY 1, 2006 - PAGE 84 OF THE STANDARD PLANS BOOK DATED MAY 2006.

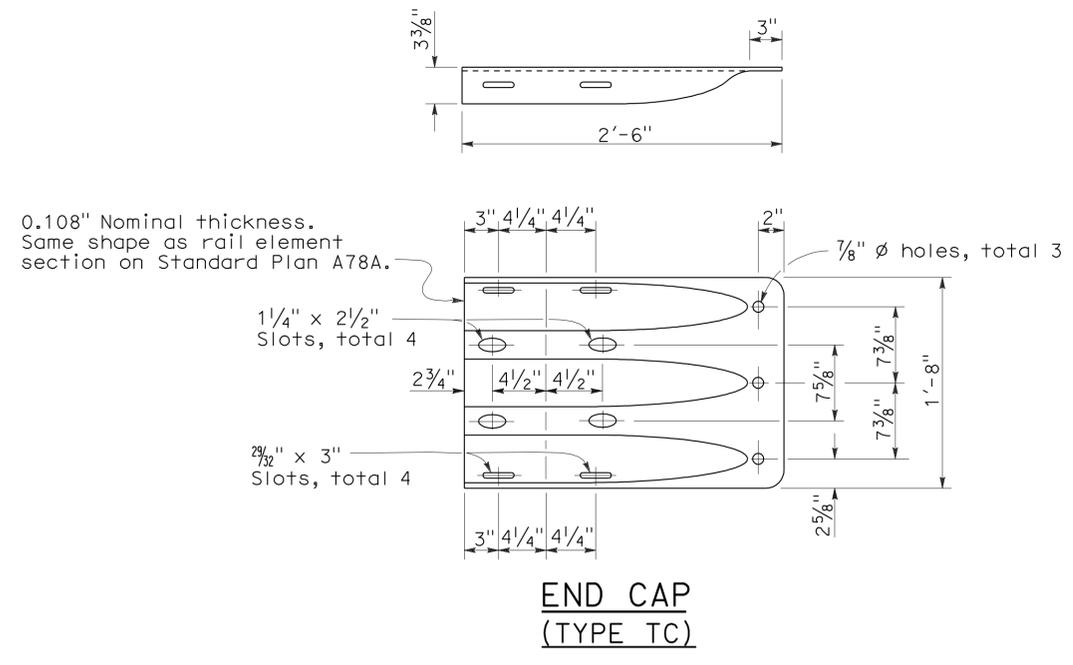
REVISED STANDARD PLAN RSP A78B

2006 REVISED STANDARD PLAN RSP A78B

To accompany plans dated 12-19-11



| L | THREAD LENGTH |
|--------|----------------------|
| 1 1/4" | full thread length |
| 2" | full thread length |
| 9/2" | 4" Min thread length |
| 18" | 4" Min thread length |



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**THRIE BEAM BARRIER
STANDARD HARDWARE DETAILS**

NO SCALE

RSP A78C1 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A78C1
DATED MAY 1, 2006 - PAGE 85 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A78C1

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 23 | 39 |

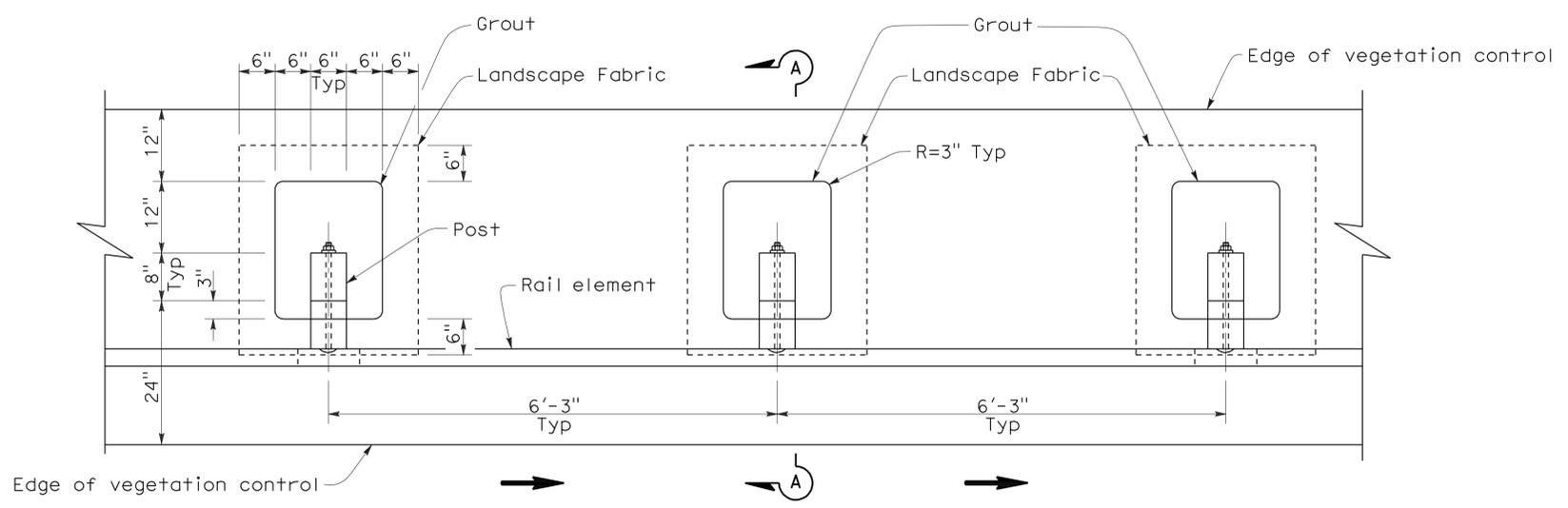
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October 20, 2006
PLANS APPROVAL DATE

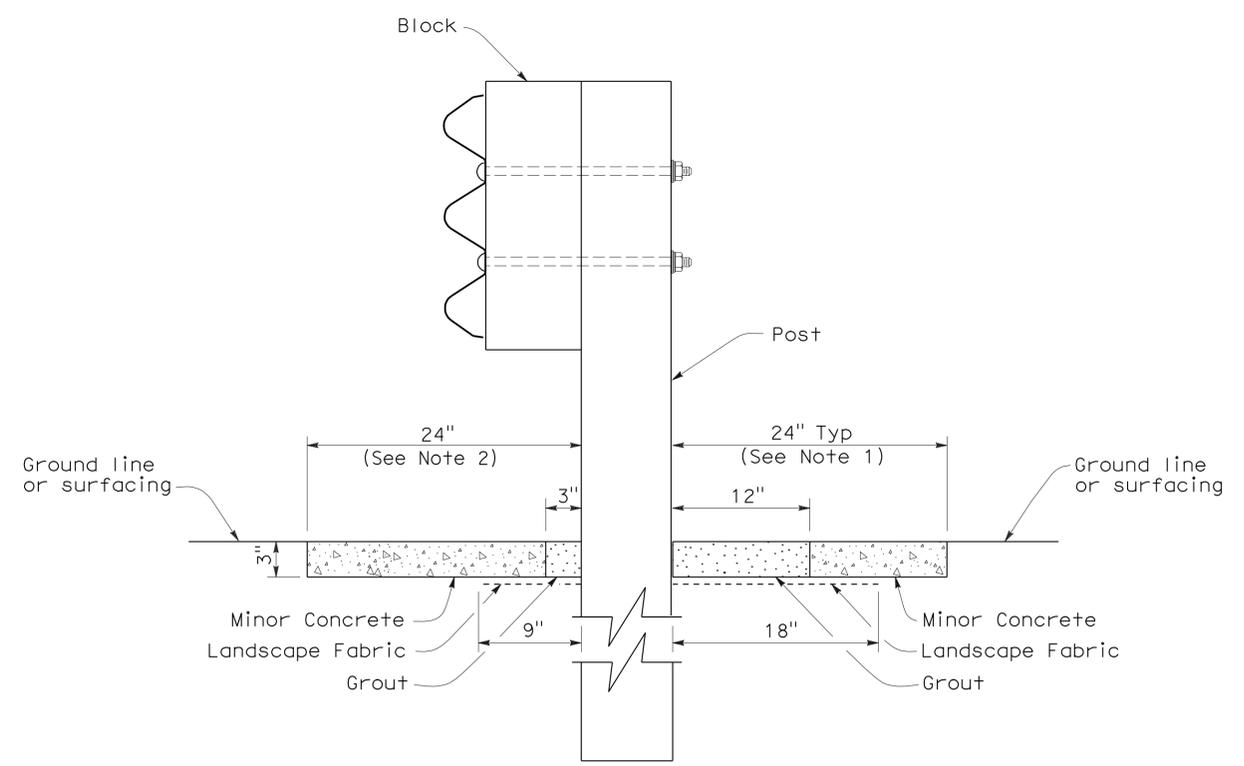
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To accompany plans dated 12-19-11



PLAN



SECTION A-A

NOTES:

1. Where the distance between back of post and hinge point is less than 24", vegetation control to be constructed flush with the back edge of the post.
2. Where dike is constructed under barrier, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
3. Direction of adjacent traffic indicated by \rightarrow .

STATE OF CALIFORNIA
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**SINGLE THRIE BEAM BARRIER
TYPICAL VEGETATION CONTROL
STANDARD BARRIER RAILING SECTION**

NO SCALE
NSP A78C3 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD
PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP A78C3

2006 NEW STANDARD PLAN NSP A78C3

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 24 | 39 |

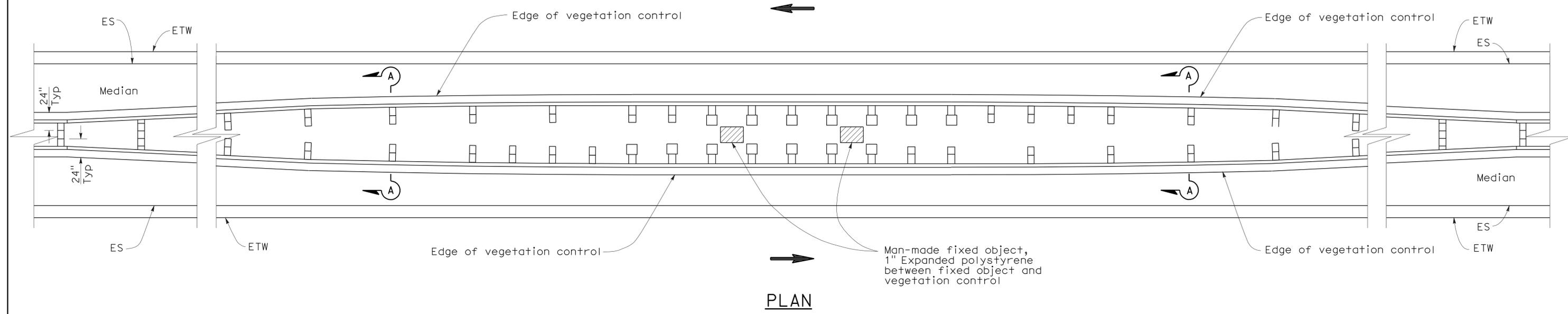
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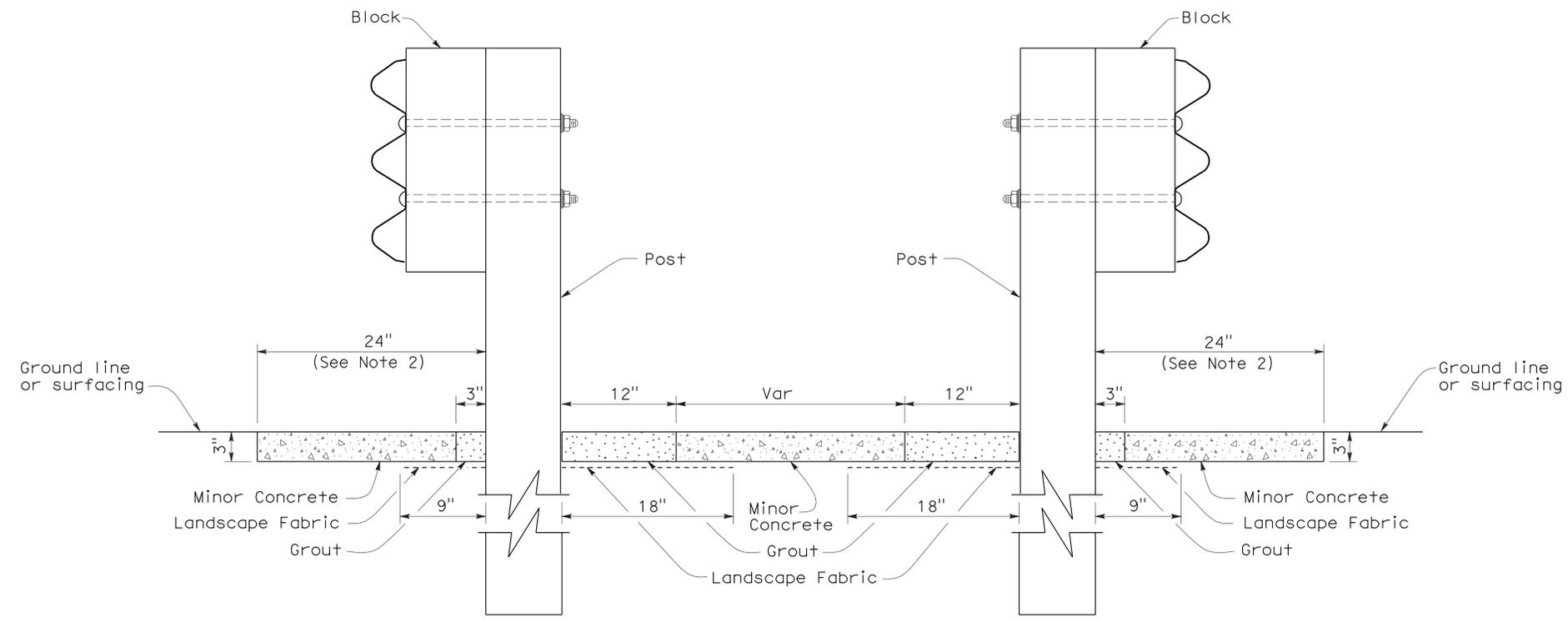
To accompany plans dated 12-19-11



PLAN

NOTES:

1. See New Standard Plan NSP A78C3 for additional vegetation control.
2. Where dike is constructed under barrier, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
3. Direction of adjacent traffic indicated by ←.



SECTION A-A

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**THREE BEAM BARRIER
TYPICAL VEGETATION CONTROL
AT FIXED OBJECTS
IN MEDIAN**

NO SCALE
NSP A78C5 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD
PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP A78C5

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 25 | 39 |

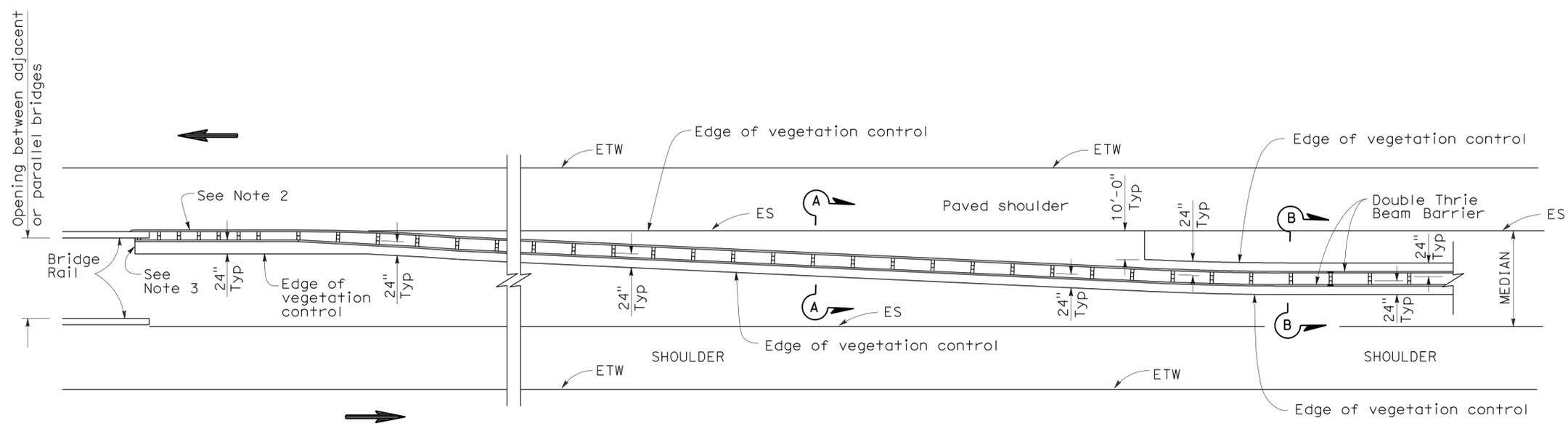
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October 20, 2006
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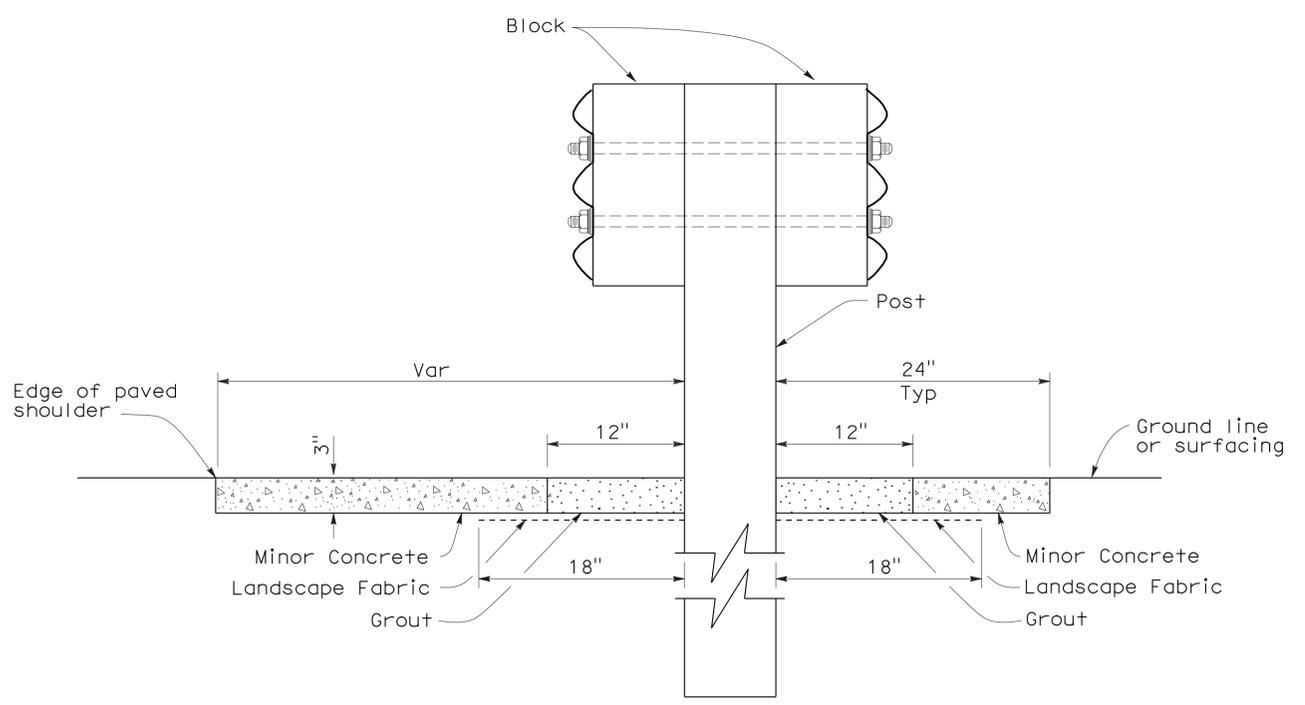
To accompany plans dated 12-19-11



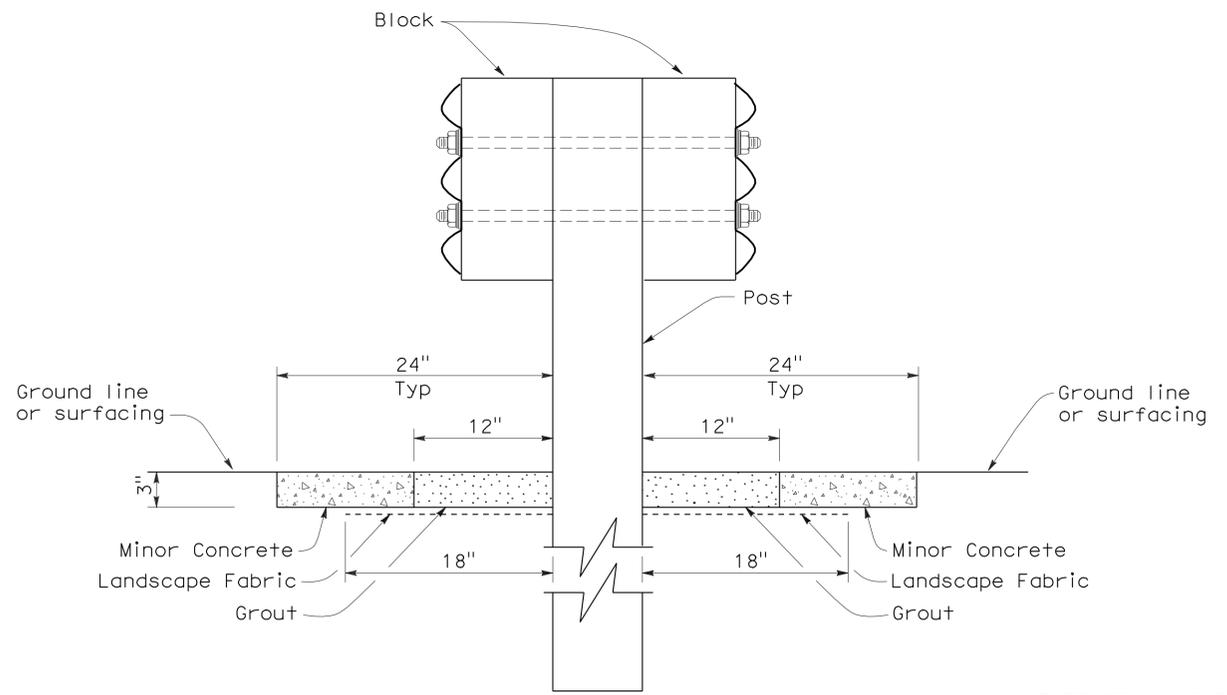
PLAN

NOTES:

1. See New Standard Plan NSP A78C4 for additional vegetation control details.
2. Where dike is constructed under barrier, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
3. End vegetation control at end of backside rail element attached to bridge railing.
4. Direction of adjacent traffic indicated by ←.



SECTION A-A



SECTION B-B

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**THRIE BEAM BARRIER
TYPICAL VEGETATION CONTROL
AT STRUCTURE APPROACH**
NO SCALE

NSP A78C6 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP A78C6

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 26 | 39 |

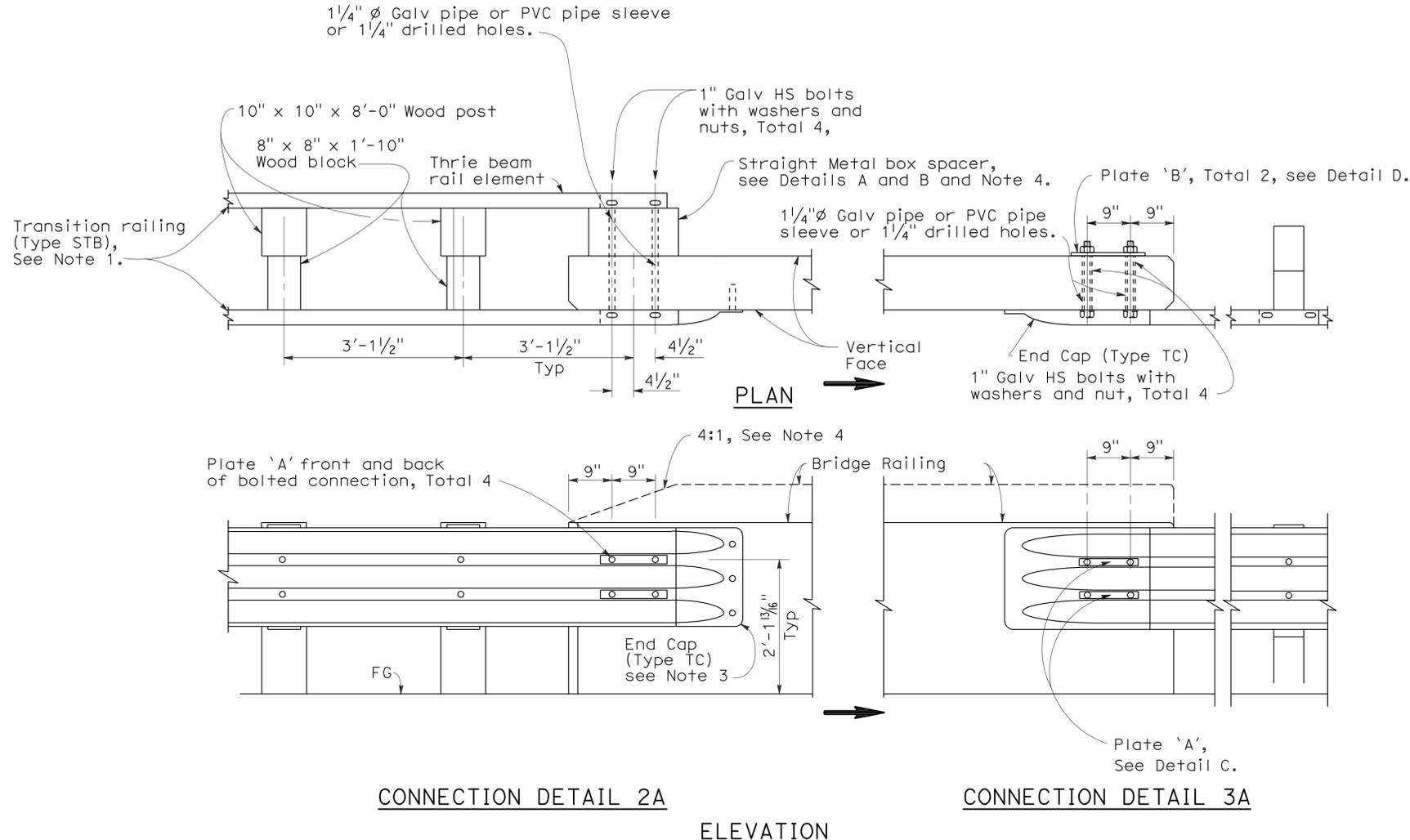
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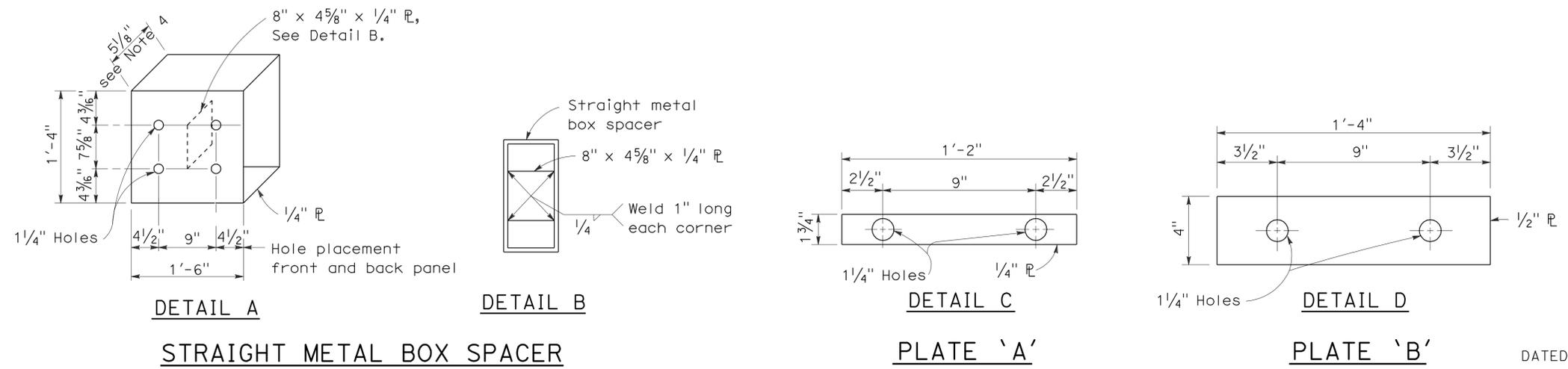
To accompany plans dated 12-19-11



NOTES:

1. For additional details of Transition Railing (Type STB), see Standard Plans A78J. Transition Railing (Type STB) transitions the standard 12 gage single thrie beam barrier to a heavier gage single thrie beam railing section then to a heavier gage nested double thrie beam barrier section which then is connected to the concrete bridge railing.
2. Where the height of the bridge railing exceeds the height of the thrie beam railing by more than 1" at Connection Detail 2A, taper the top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam railing.
3. For details of End Cap (Type TC), see Standard Plan A78C1.
4. See Standard Plan A78J for additional details regarding depth dimension for straight metal box spacer.
5. Direction of adjacent traffic indicated by →.

CONNECTION DETAIL 2A **CONNECTION DETAIL 3A**
ELEVATION
SINGLE THRIE BEAM BARRIER CONNECTION TO BRIDGE RAILING WITHOUT SIDEWALK



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SINGLE THRIE BEAM BARRIER CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS

NO SCALE
RSP A78F2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A78F2 DATED MAY 1, 2006 - PAGE 93 OF THE STANDARD PLANS BOOK DATED MAY 2006.
REVISED STANDARD PLAN RSP A78F2

2006 REVISED STANDARD PLAN RSP A78F2

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 27 | 39 |

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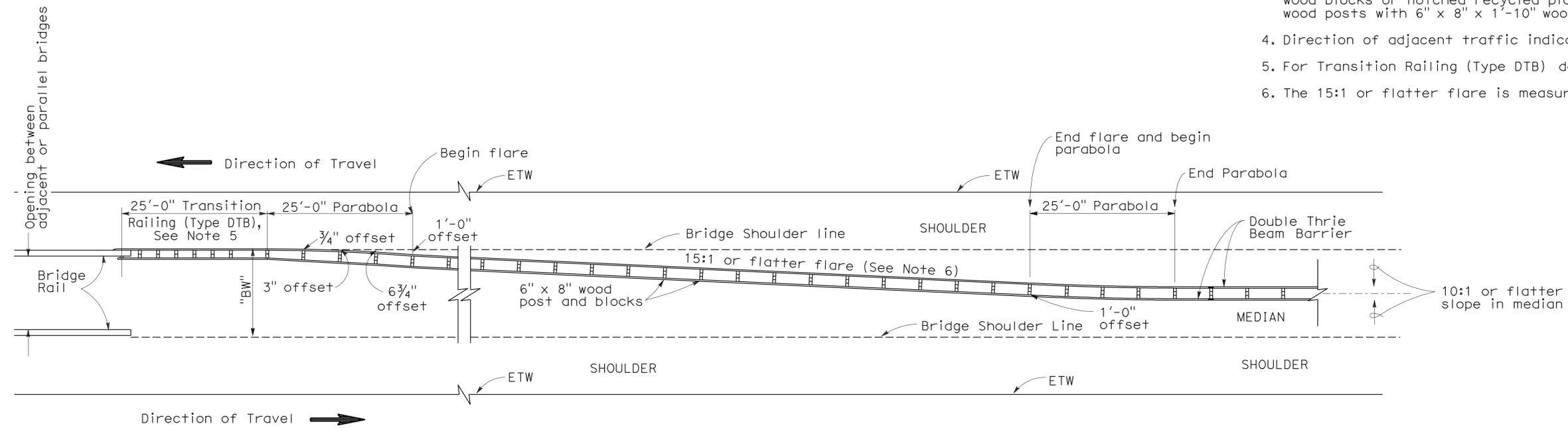
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To accompany plans dated 12-19-11

NOTES:

1. Line post, blocks and hardware to be used are shown on Standard Plans A78A, A78B, A78C1, and A78C2.
2. Post spacing to be 6'-3" center to center, except as otherwise noted.
3. Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-10" wood blocks. (W6 x 9) steel posts, 6'-8" in length, with 6" x 8" x 1'-10" notched wood blocks or notched recycled plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 8" x 1'-10" wood blocks where applicable and when specified.
4. Direction of adjacent traffic indicated by \rightarrow .
5. For Transition Railing (Type DTB) details, see Standard Plan A78K.
6. The 15:1 or flatter flare is measured off of the edge of traveled way.



TYPE 25A CONNECTION LAYOUT

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**THRIE BEAM BARRIER
TYPICAL LAYOUT
FOR CONNECTION TO
BRIDGE RAILING**

RSP A78H DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A78H
DATED MAY 1, 2006 - PAGE 95 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A78H

2006 REVISED STANDARD PLAN RSP A78H

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 28 | 39 |

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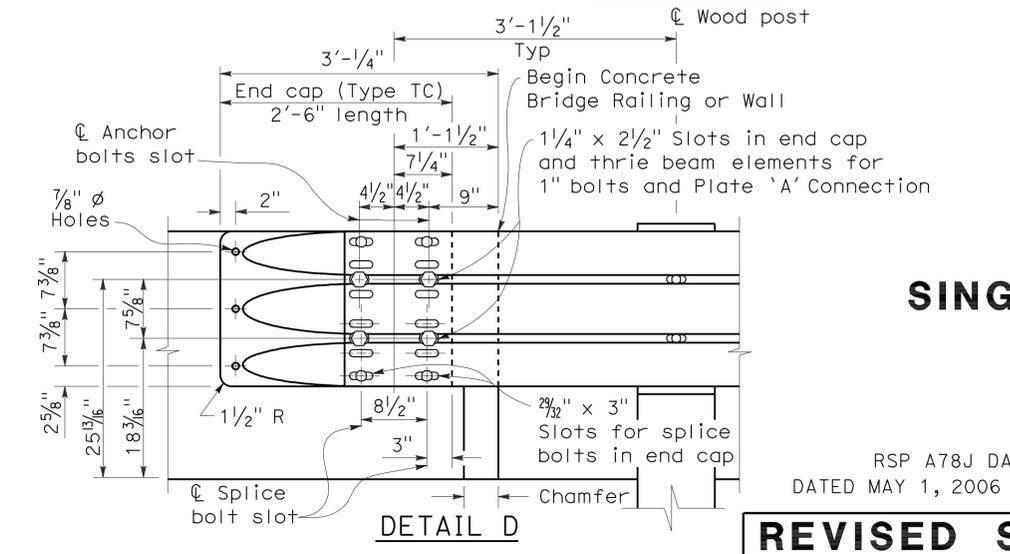
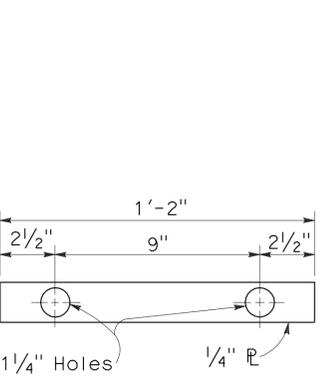
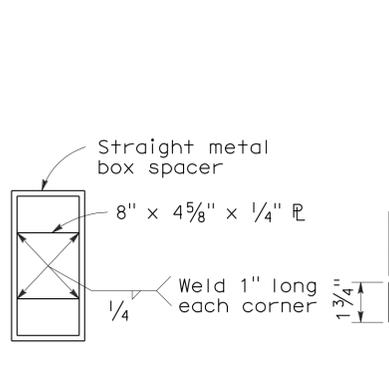
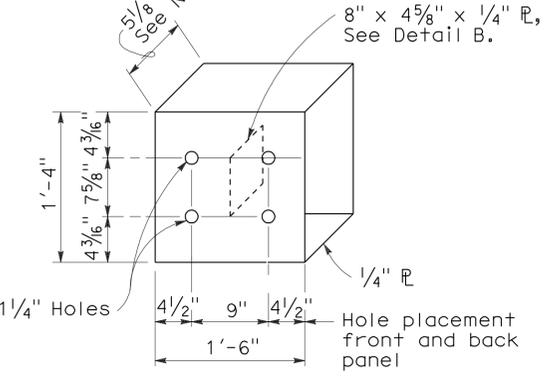
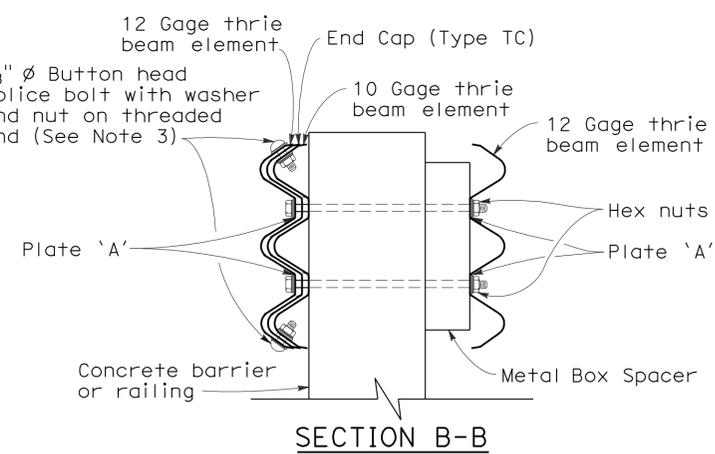
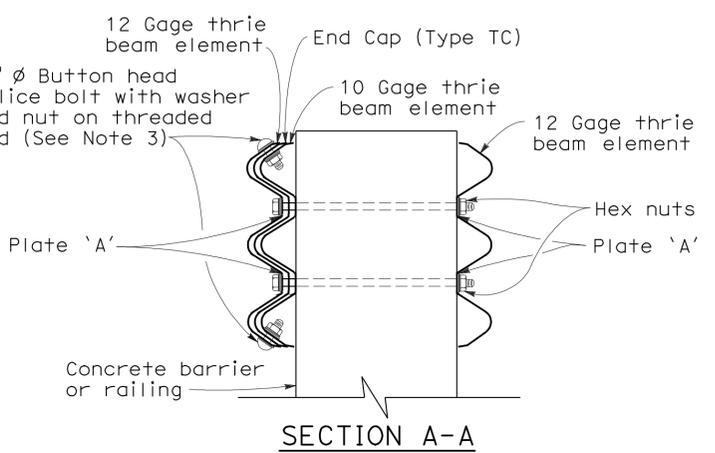
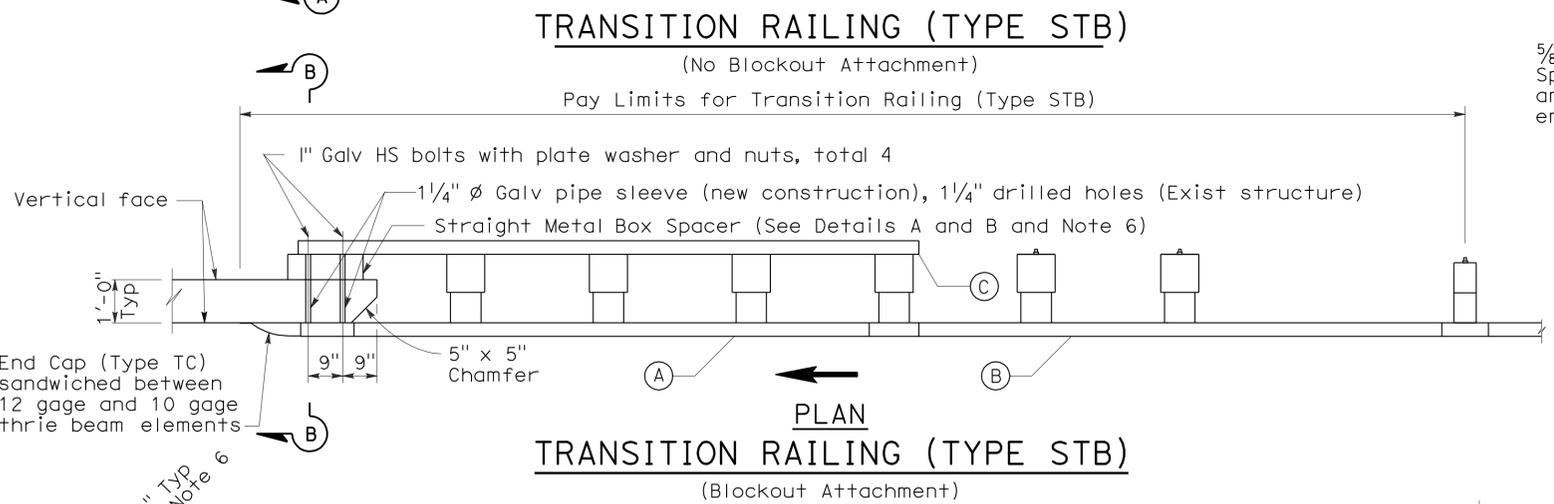
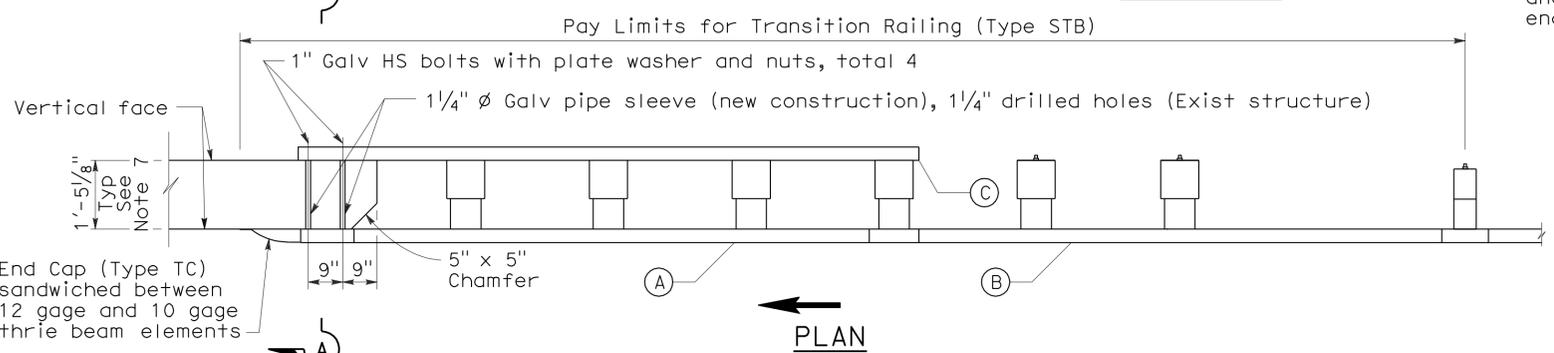
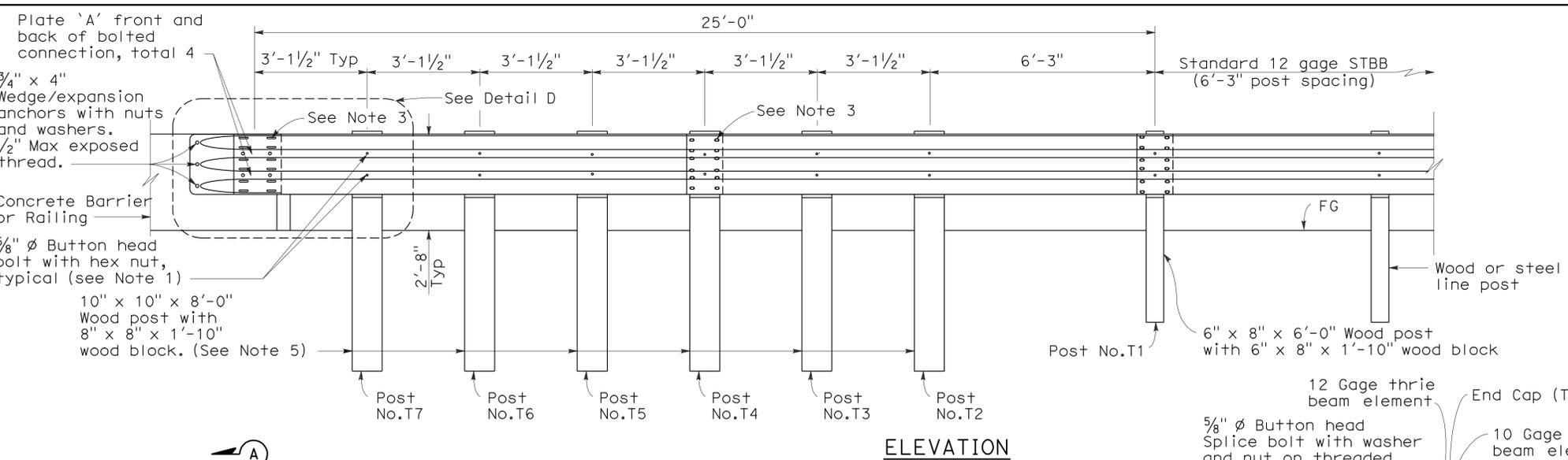
To accompany plans dated 12-19-11

LEGEND

- (A) Nested thrie beam elements (one 12 gage element nested over one 10 gage element).
 - (B) One 10 gage thrie beam element.
 - (C) One 12 gage thrie beam element.
- 10 gage = 0.135" thick
12 gage = 0.108" thick

NOTES:

1. Use 5/8" Ø Button head bolts and hex nuts for connection to posts. No washer on rail face for bolted connections to post.
2. The nested rail elements, end cap and single 10 gage thrie beam element, may be spliced together prior to bolting the elements to the wood post and concrete barrier or railing.
3. Exterior splice bolt holes for rail element splices at Post No.T4 and the connection to the concrete barrier or railing shall be the standard 3/32" x 1/8" slot size. Interior splice bolt holes at these locations may be increased up to 1/4" Ø. Only the top 2 and the bottom 2 splice bolts with washers and nuts are required for rail splices at Post No.T4 and the connection to the concrete barrier or railing.
4. Direction of adjacent traffic indicated by ➡.
5. The top elevation of Post Nos.T2 through T7 shall not project more than 1" above the top elevation of the rail element.
6. The depth of the metal box spacer varies from the 5/8" to 1/2" and is dependent on the width of the concrete railing or wall. The combined dimension for the depth of the metal box spacer plus the width of railing or wall is typically 17/8". Where the space between the backside of the concrete railing or wall and the rear thrie beam element is less than 1/2" metal plates similar to Plate 'A' are to be used as spacers.
7. Where the width of the concrete railing or wall is greater than 17/8", wood blocks are to be used to fill the space created between the backside of Post No.4 through No.7 and the rear thrie beam element. These wood blocks shall be 8" in width and 1'-2" in length. The dimension between the front thrie beam element and the rear thrie beam element is to match the width of the concrete railing or wall.
8. For details of End Cap (Type TC), see Revised Standard Plan RSP A78C1.



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**SINGLE THRIE BEAM BARRIER
TRANSITION RAILING
(TYPE STB)**

NO SCALE

RSP A78J DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A78J
DATED MAY 1, 2006 - PAGE 97 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A78J

2006 REVISED STANDARD PLAN RSP A78J

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 06 | Mad | 99 | 23.8/28.2 | 29 | 39 |

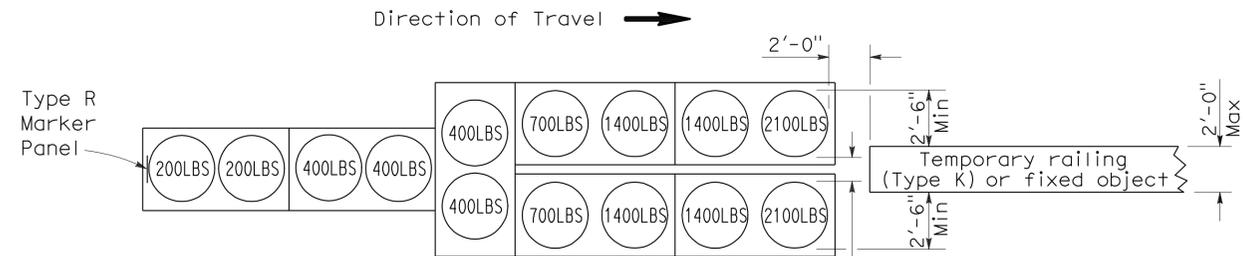
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June 6, 2008
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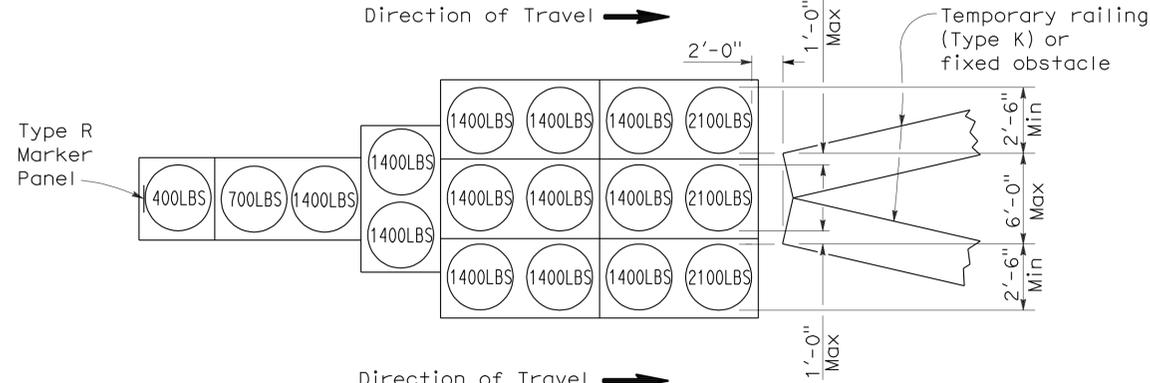
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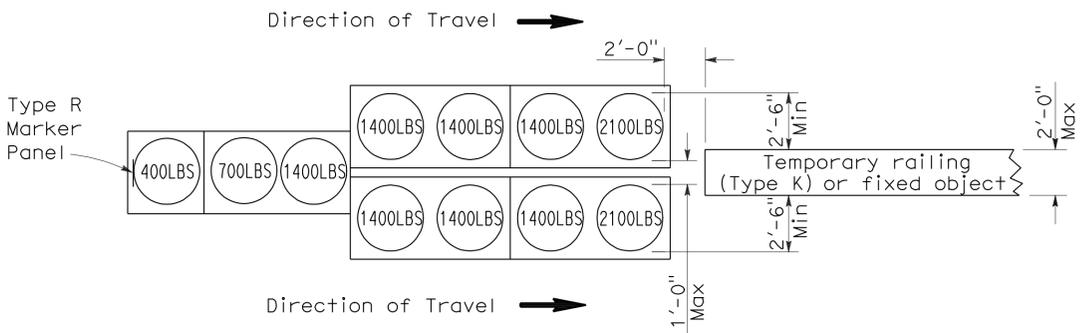
ARRAY 'TU14'

Approach speed 45 mph or more



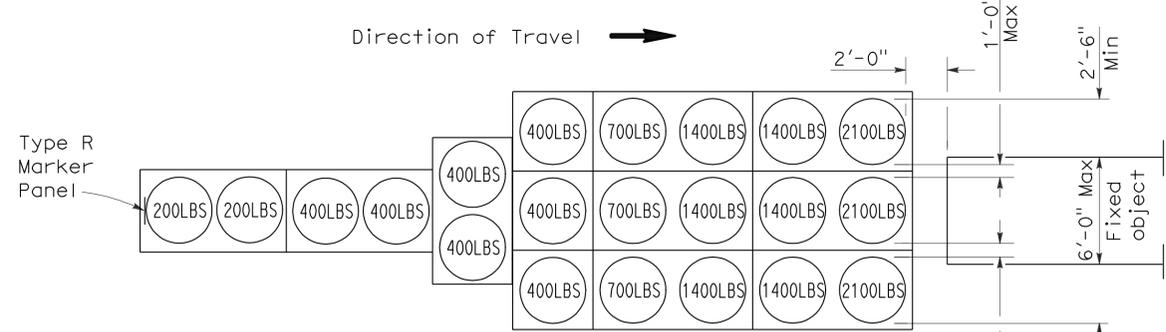
ARRAY 'TU17'

Approach speed less than 45 mph



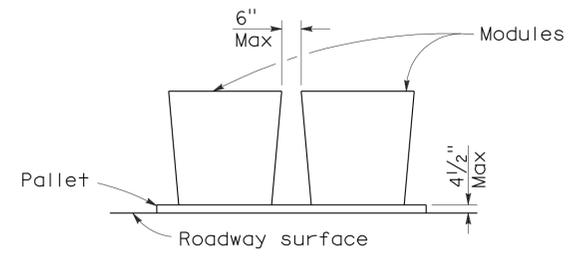
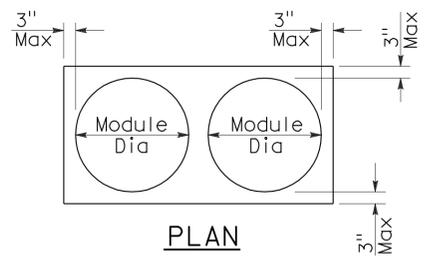
ARRAY 'TU11'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more



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.

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**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

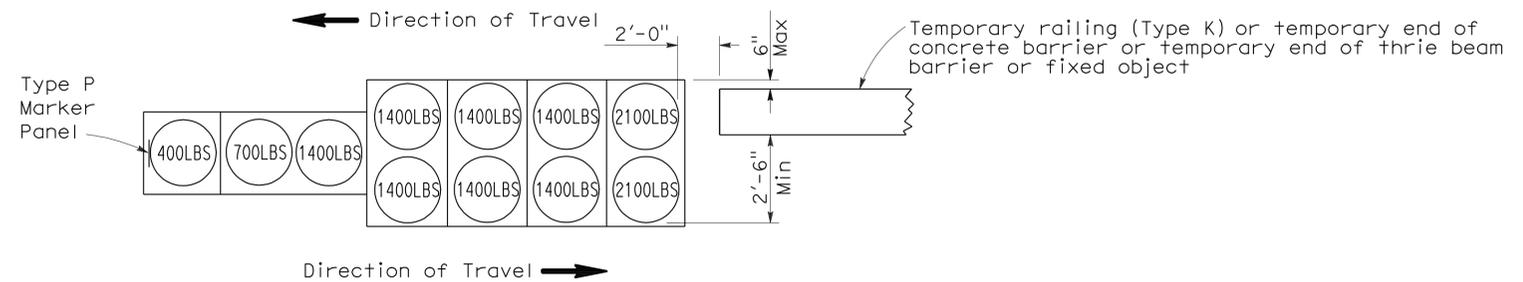
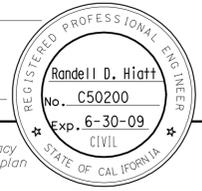
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 30 | 39 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

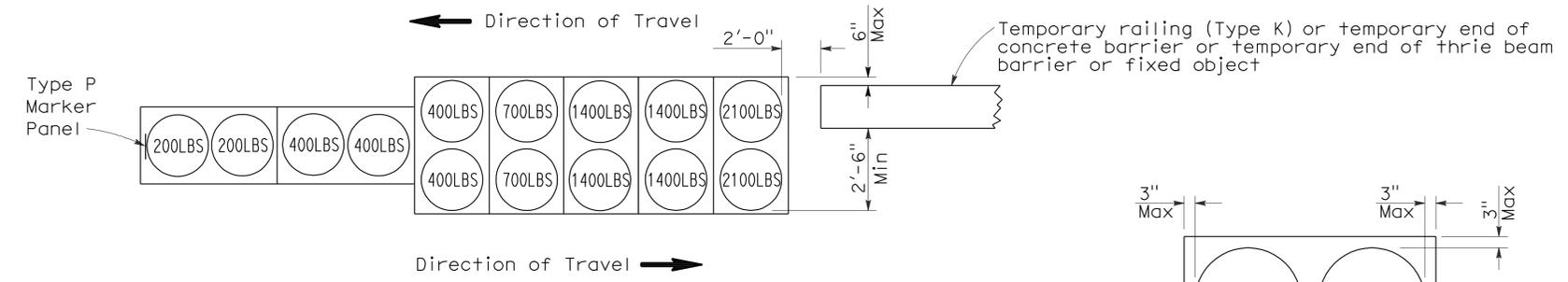
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 12-19-11



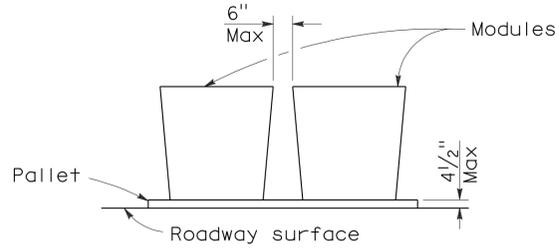
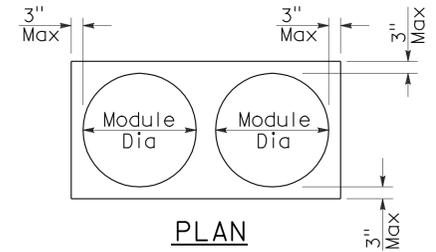
ARRAY 'TB11'

Approach speed less than 45 mph



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

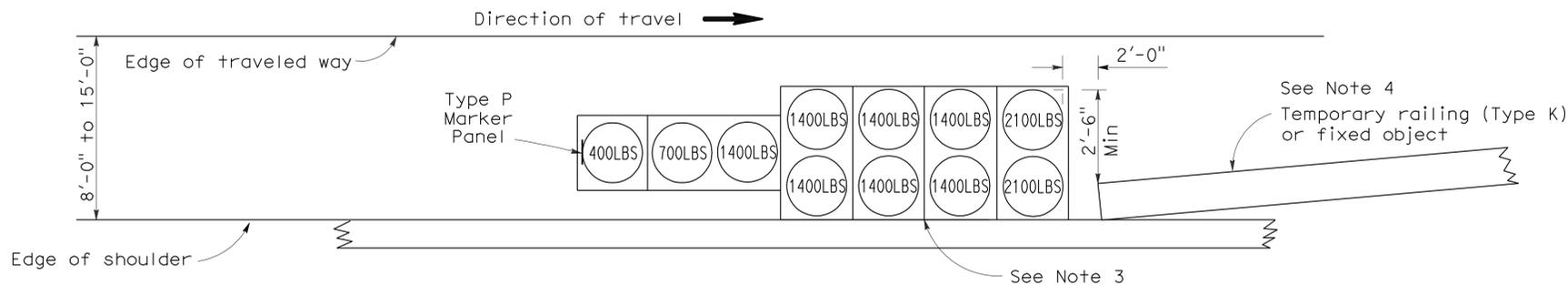
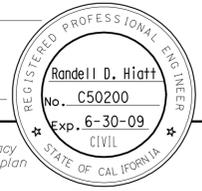
| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 06 | Mad | 99 | 23.8/28.2 | 31 | 39 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

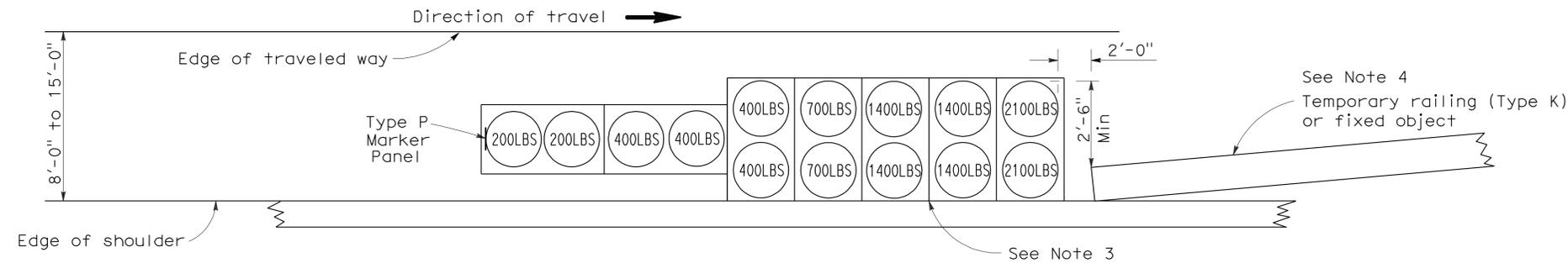
June 6, 2008
PLANS APPROVAL DATE

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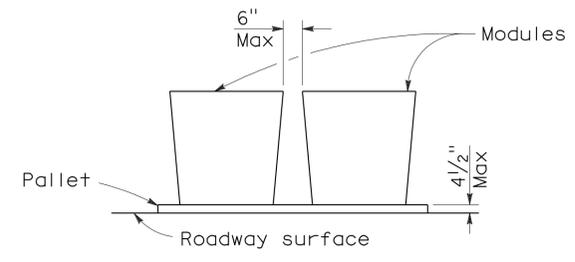
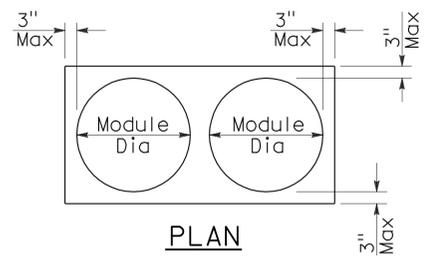
To accompany plans dated 12-19-11



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

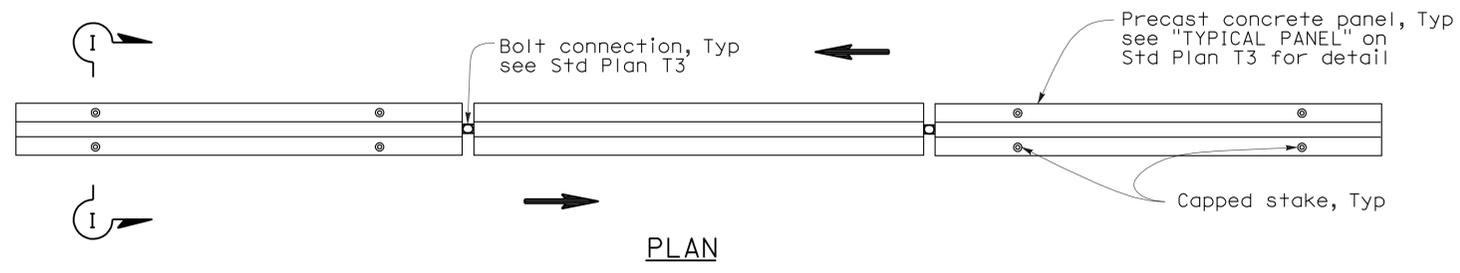
| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Mad | 99 | 23.8/28.2 | 32 | 39 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

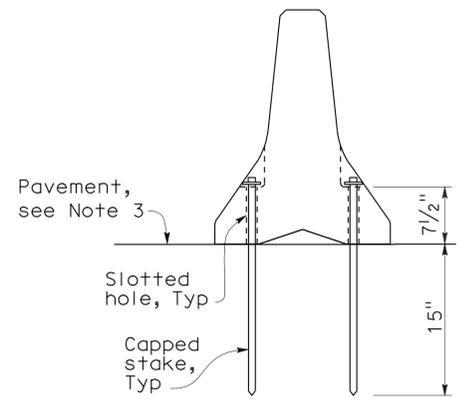
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To accompany plans dated 12-19-11



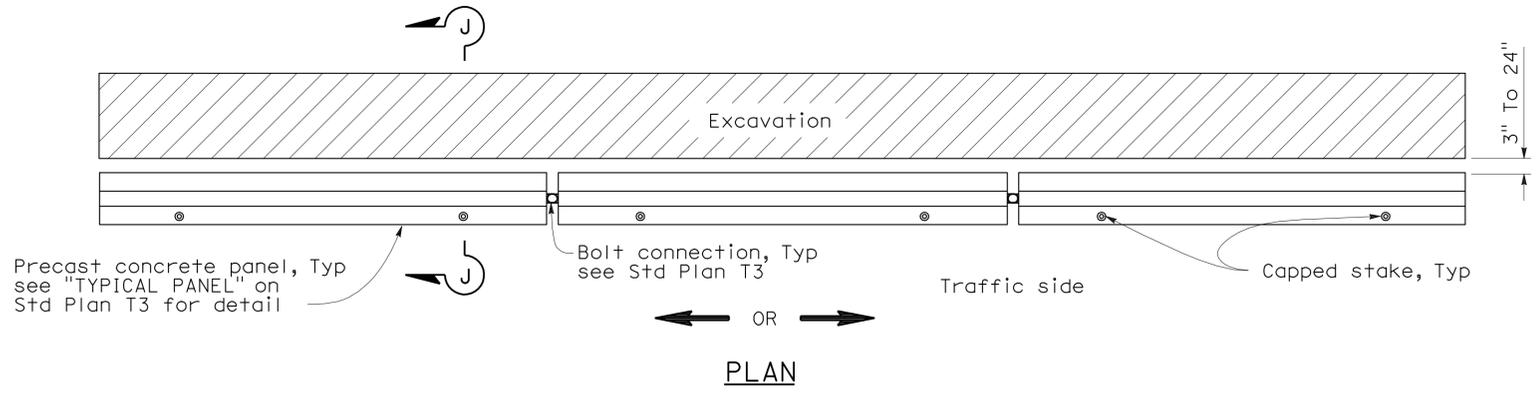
RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

See Note 1



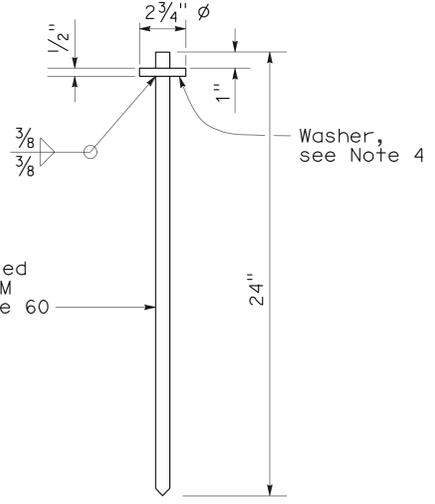
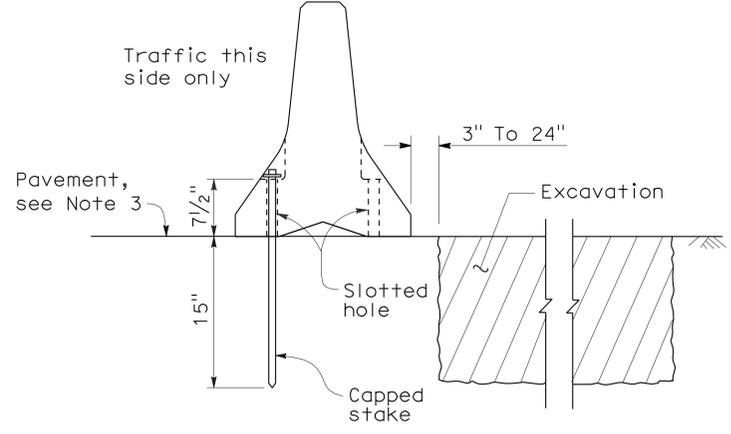
NOTES:

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 concrete 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

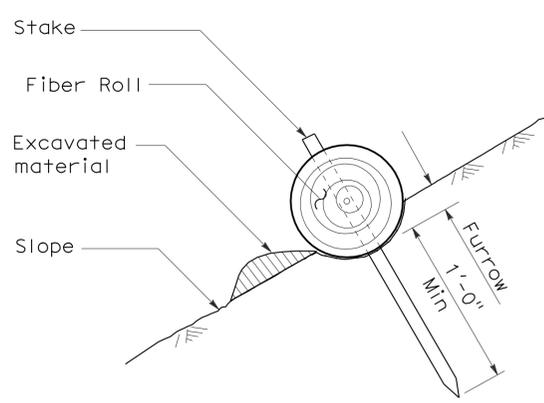
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 34 | 39 |

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 PLANS APPROVAL DATE
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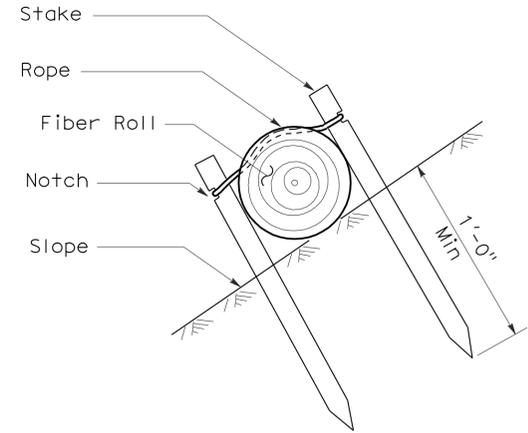
To accompany plans dated 12-19-11

NOTES:

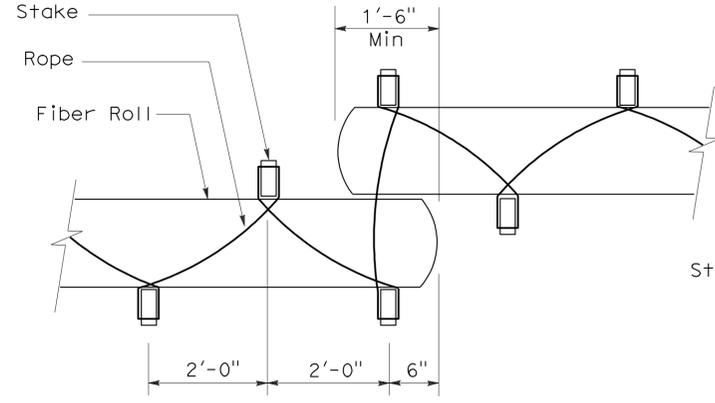
1. Temporary fiber roll spacing varies depending upon slope inclination.
2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



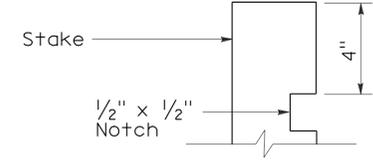
SECTION
TEMPORARY FIBER ROLL
(TYPE 1)



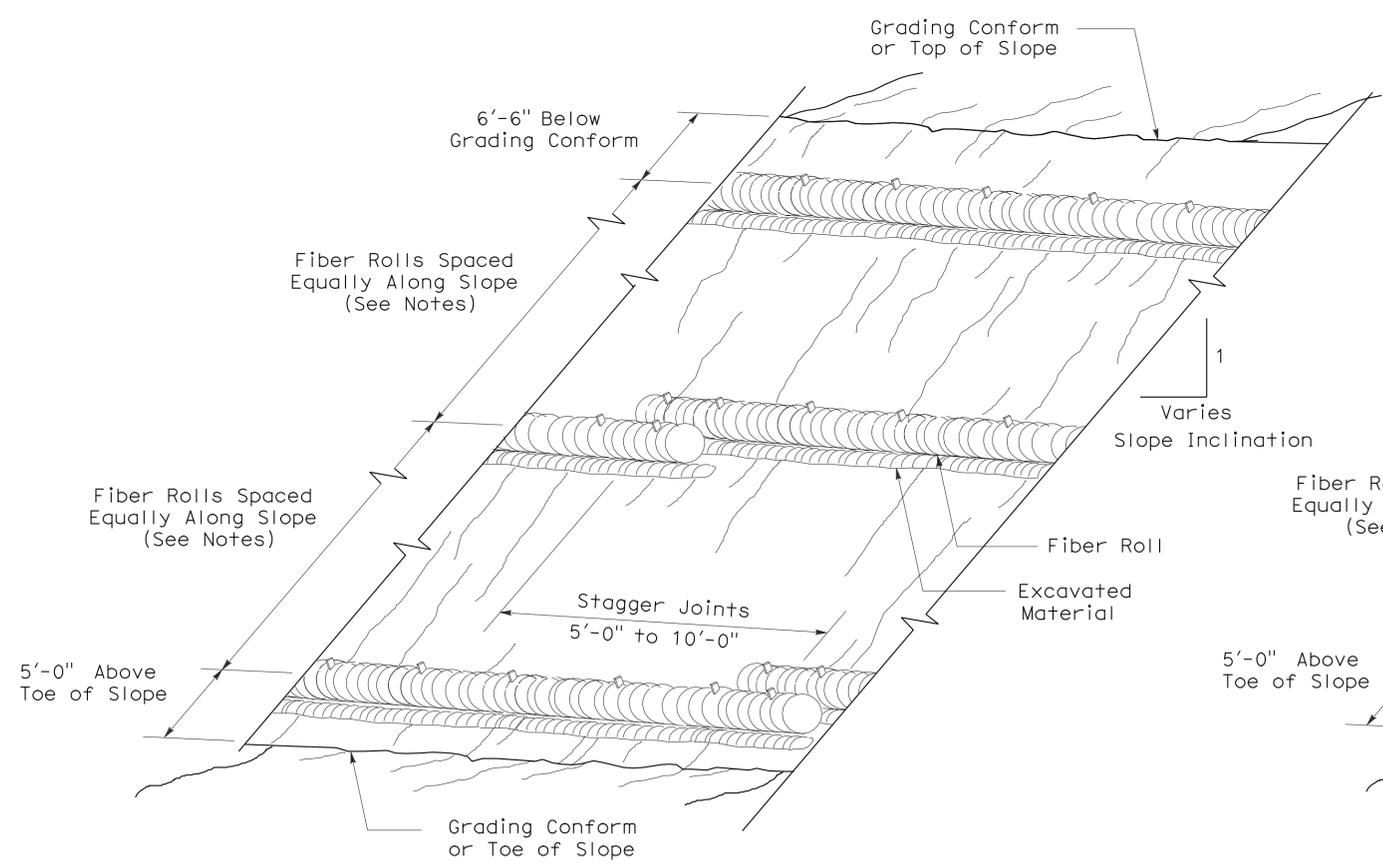
SECTION
TEMPORARY FIBER ROLL
(TYPE 2)



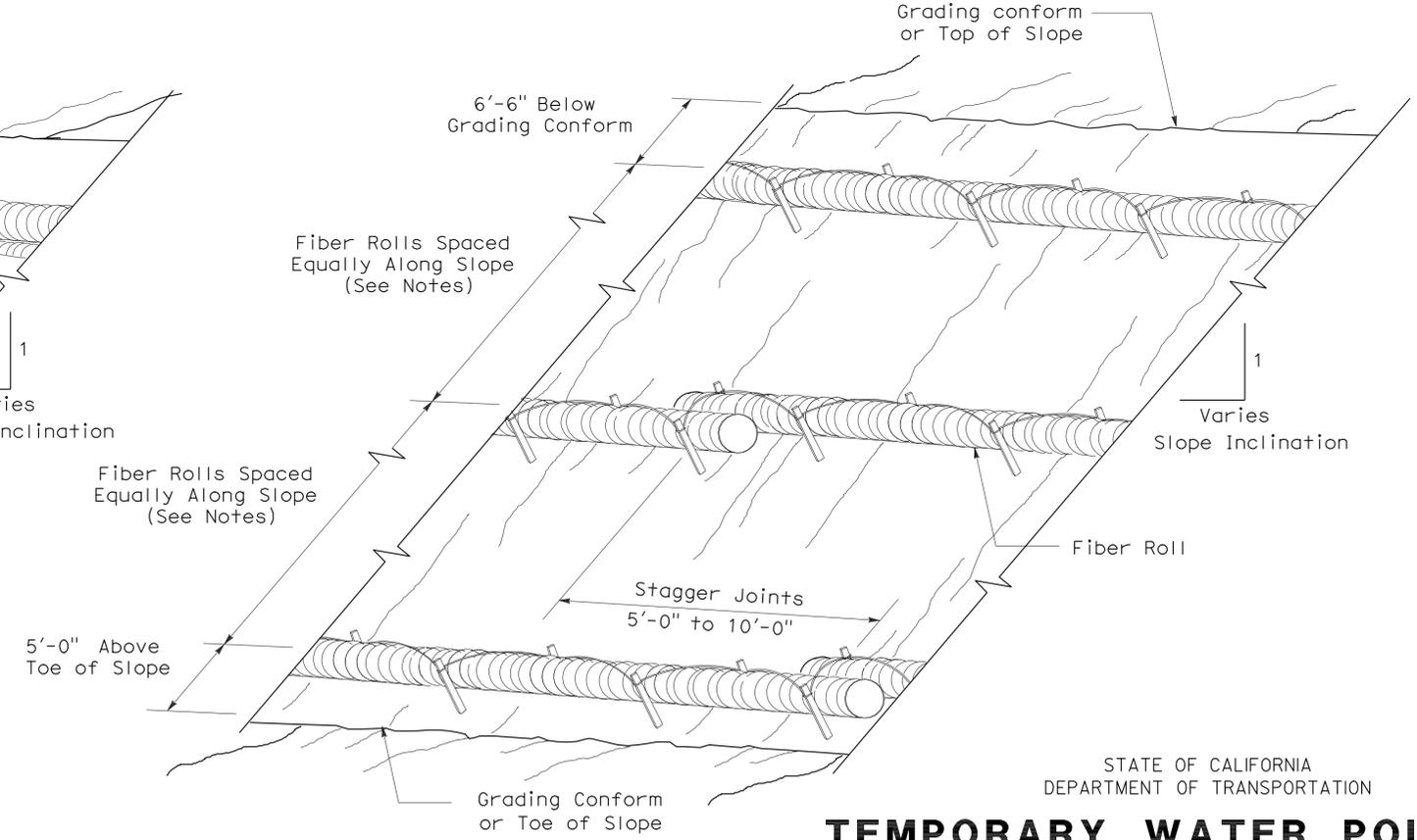
PLAN



ELEVATION
STAKE NOTCH DETAIL



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 1)



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS
(TEMPORARY FIBER ROLL)

NO SCALE

RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T56

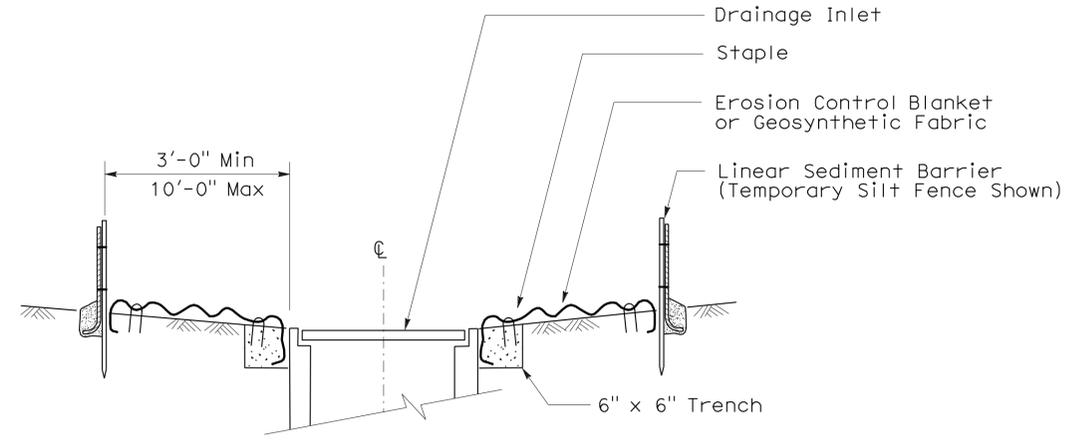
2006 REVISED STANDARD PLAN RSP T56

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 35 | 39 |

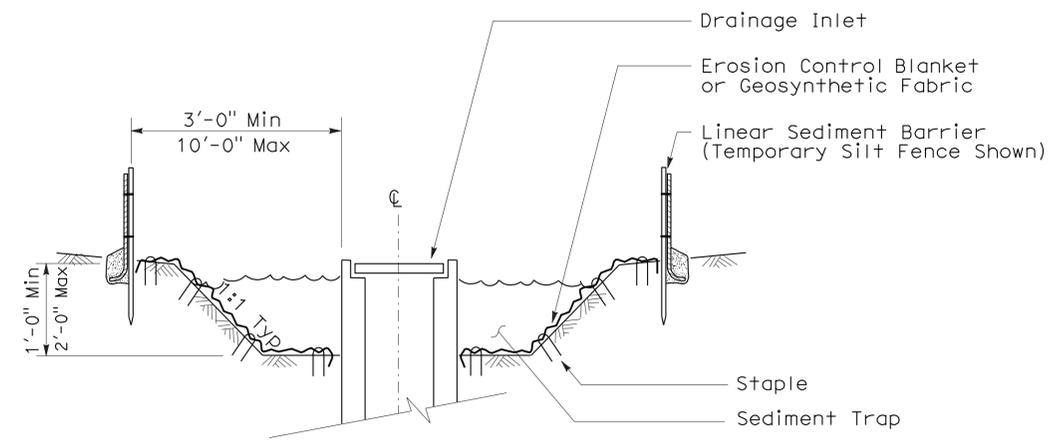
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS Approval DATE
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To accompany plans dated 12-19-11

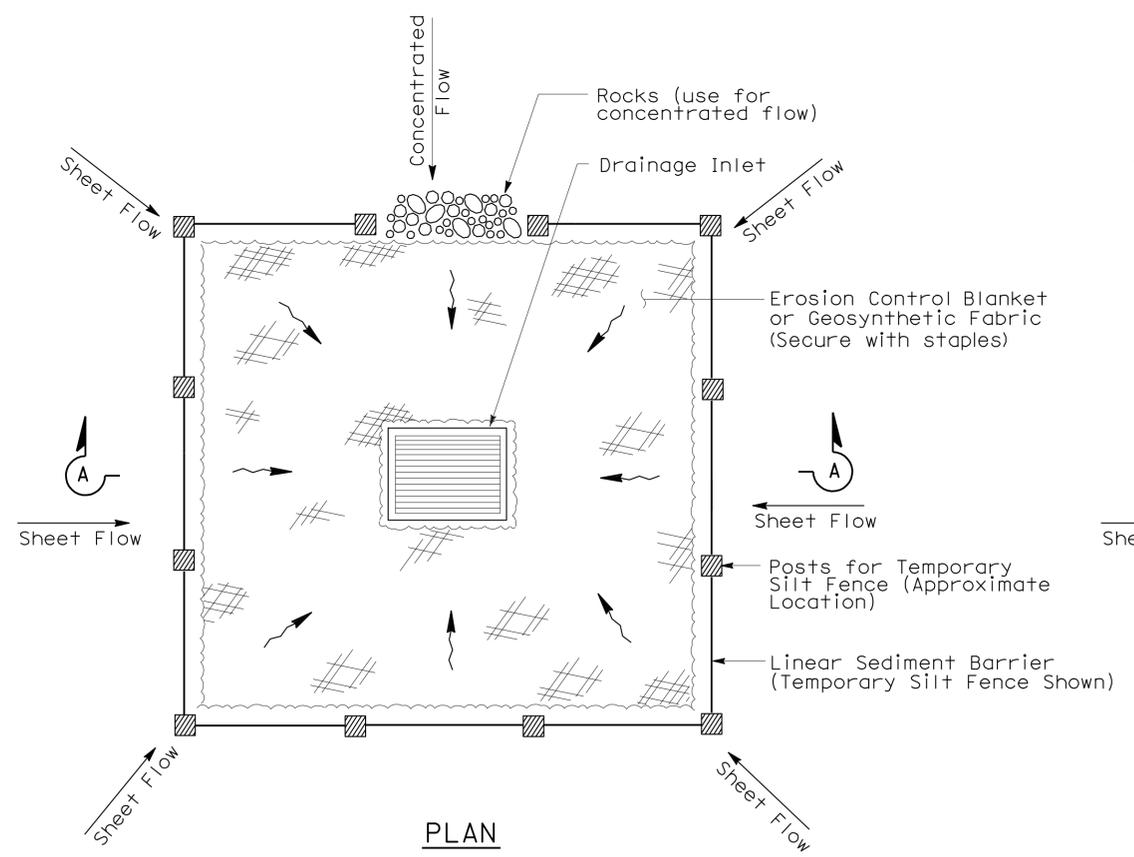
- NOTES:**
- See Standard Plan T51 for Temporary Silt Fence.
 - Dimensions may vary to fit field conditions.



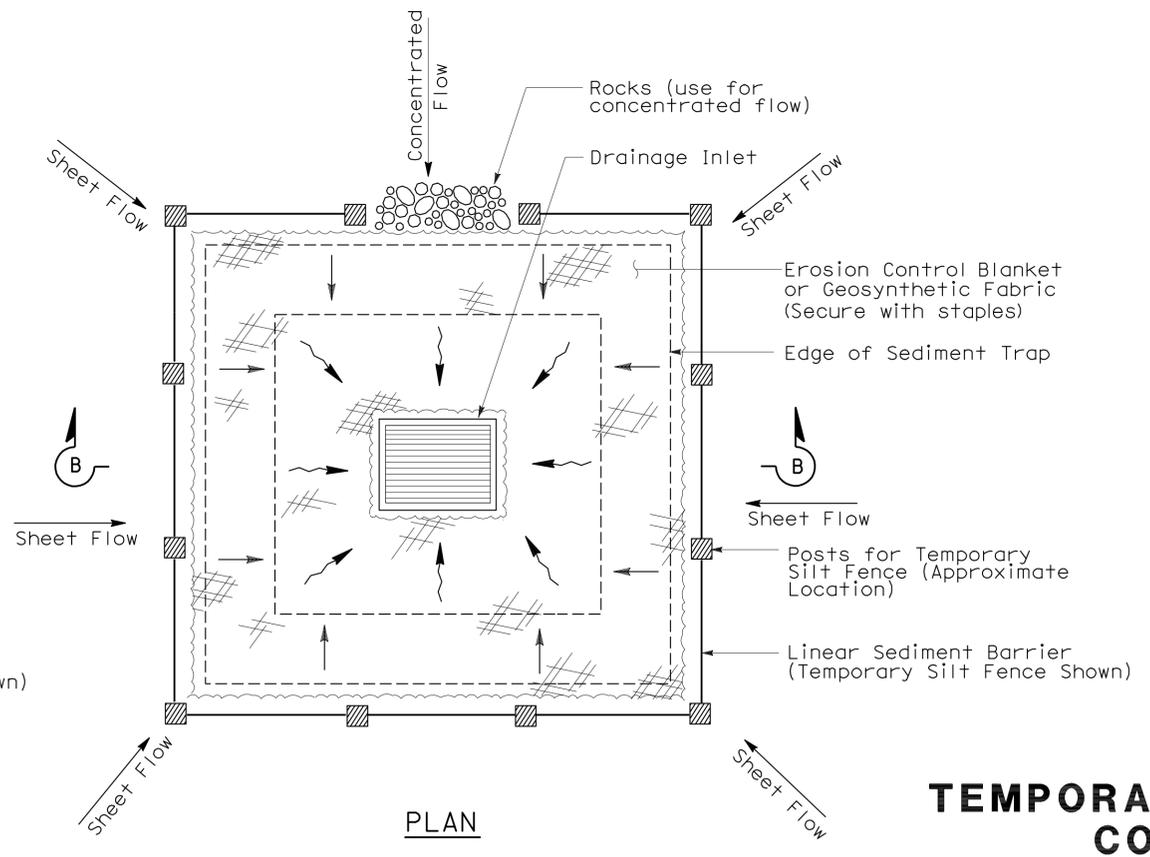
SECTION A-A



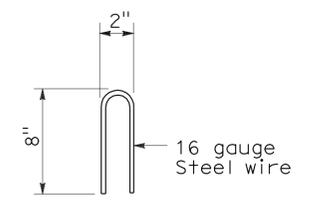
SECTION B-B



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2) (EXCAVATED SEDIMENT TRAP)



STAPLE DETAIL

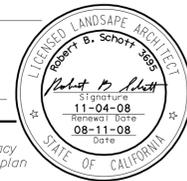
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)
 NO SCALE

NSP T61 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T61

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 06 | Mad | 99 | 23.8/28.2 | 36 | 39 |

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS APPROVAL DATE
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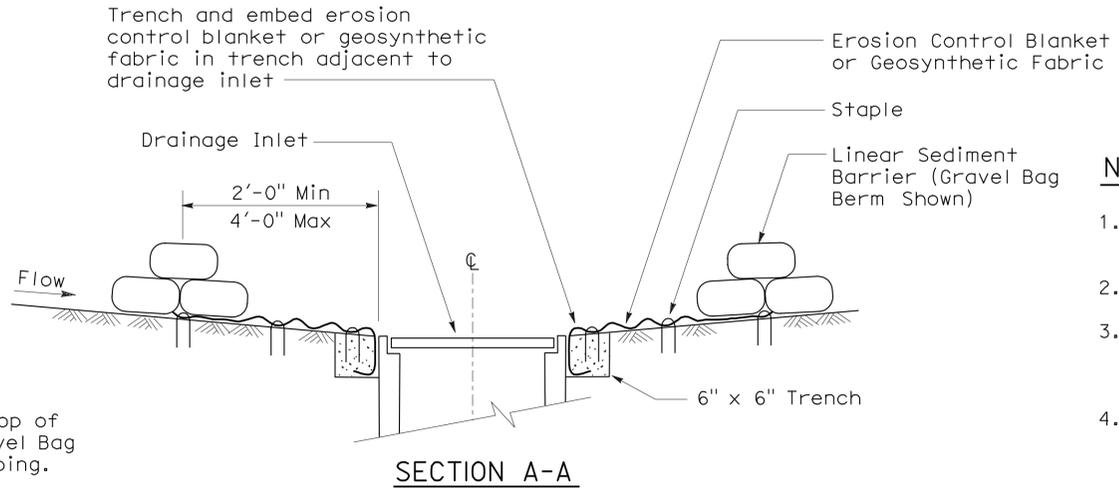
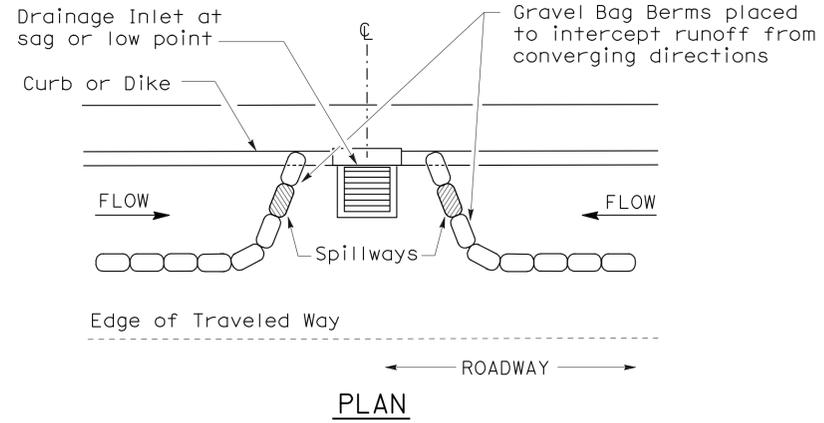


To accompany plans dated 12-19-11

GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

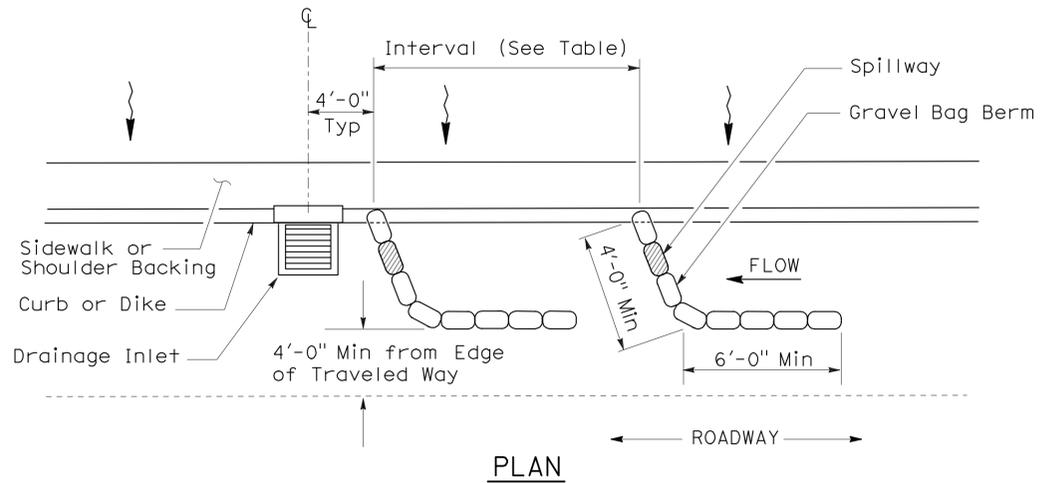
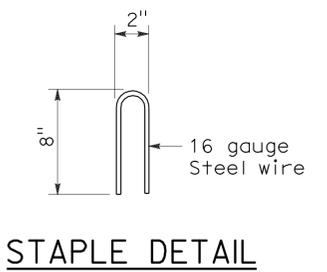
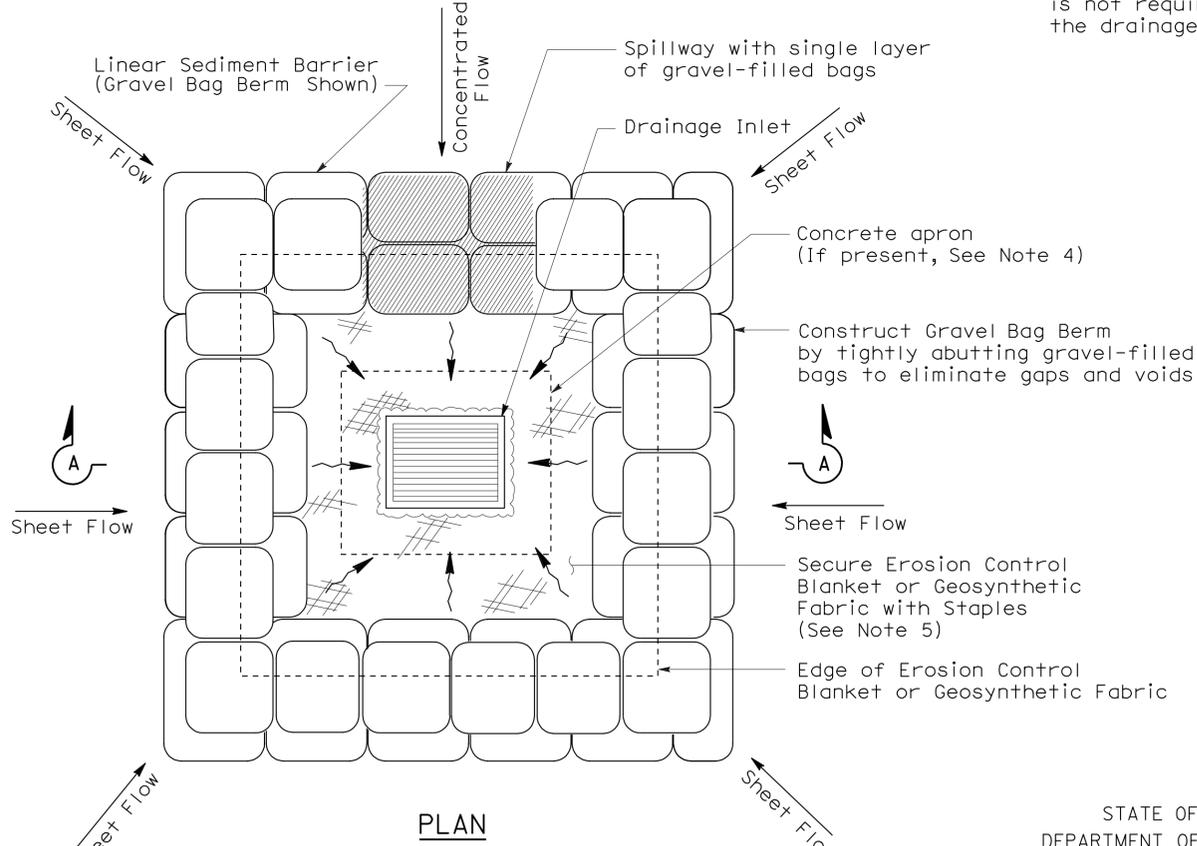
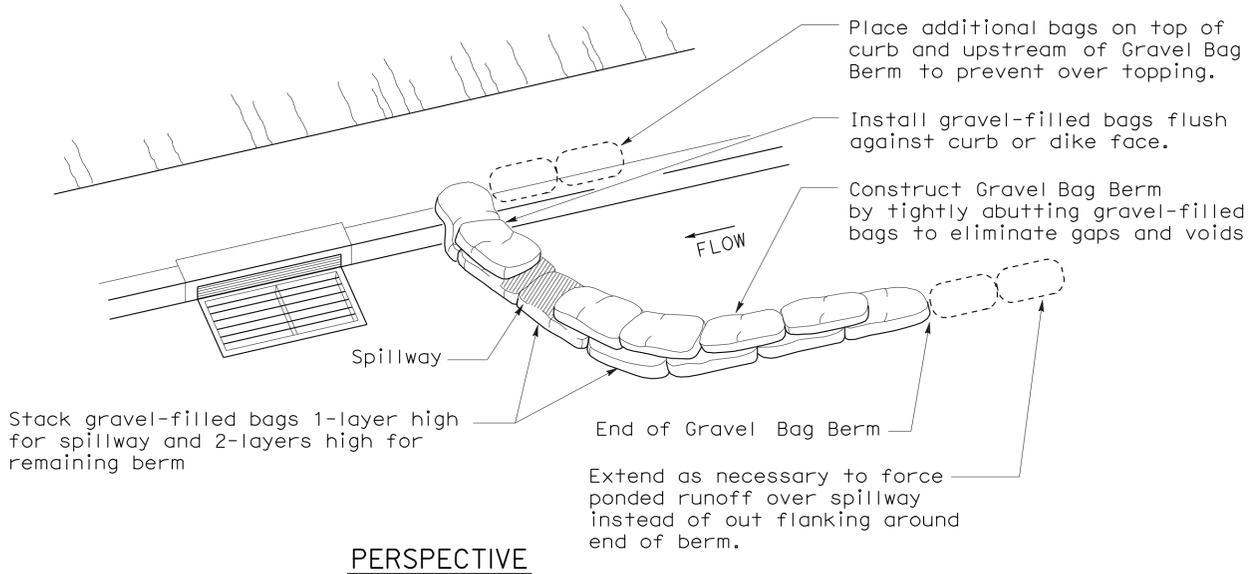
| | | | | | |
|----------------------------|----------|----------|----------|---------|-----|
| SLOPE OF ROADWAY (PERCENT) | 1 to 3.9 | 4 to 5.9 | 6 to 7.9 | 8 to 10 | 10+ |
| INTERVAL BETWEEN BERM | 100' | 75' | 50' | 25' | 12' |

For slope of less than 1%, install barriers only if erosion/sediment is prevalent



NOTES:

1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.



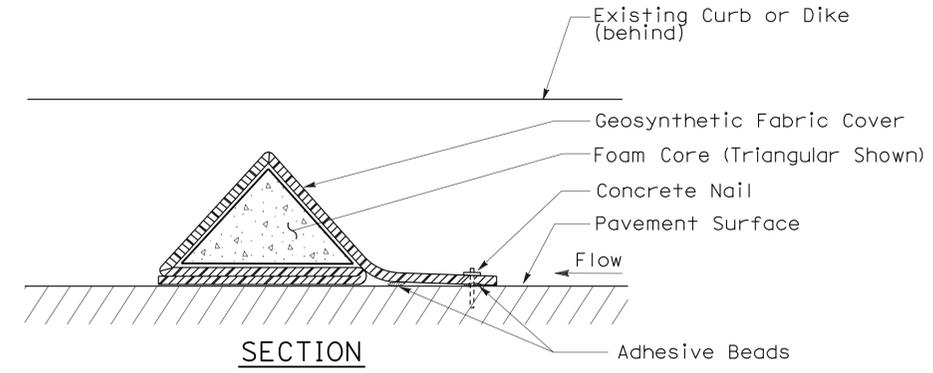
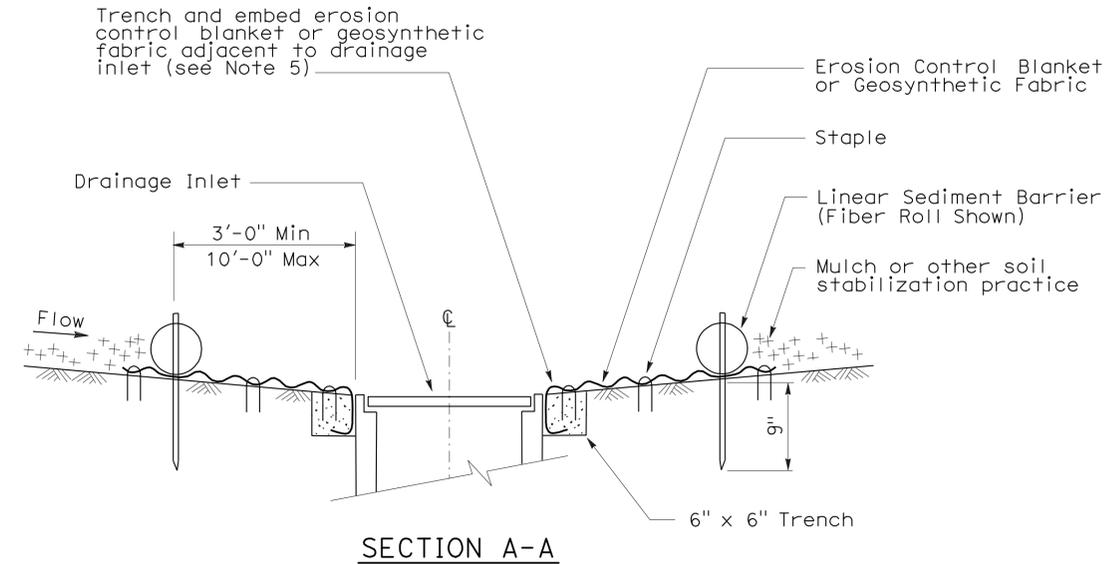
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE
 NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS
 THE STANDARD PLANS BOOK DATED MAY 2006.

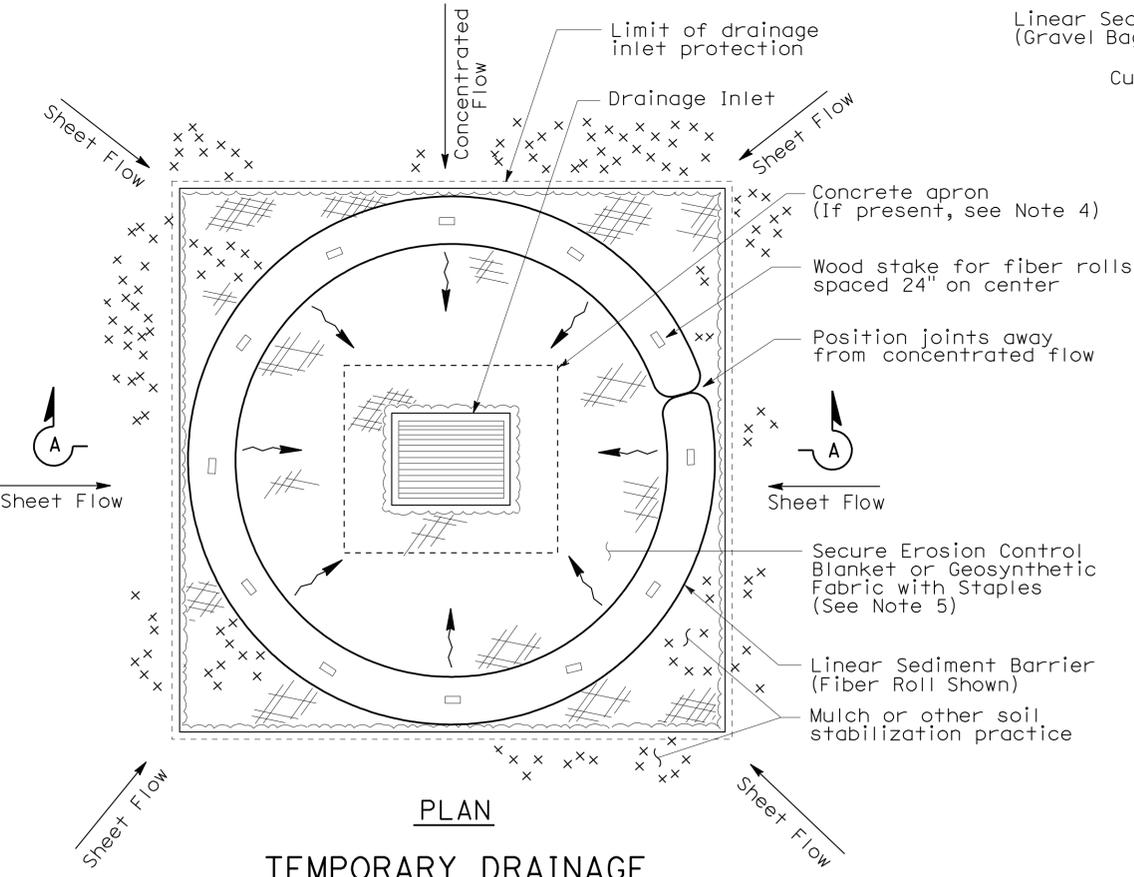
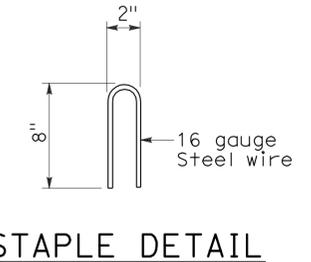
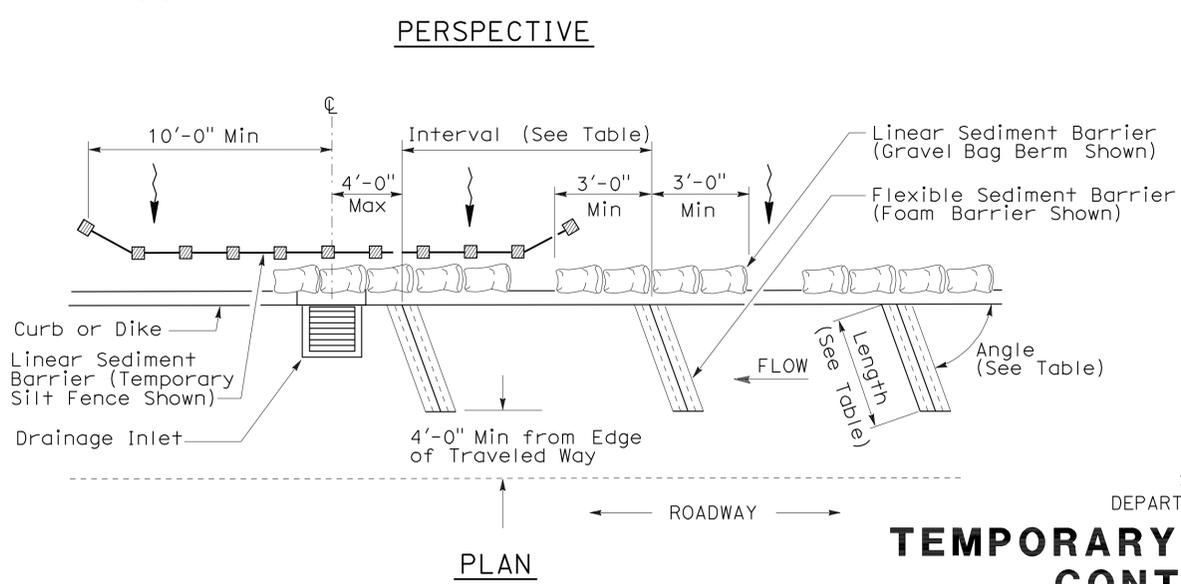
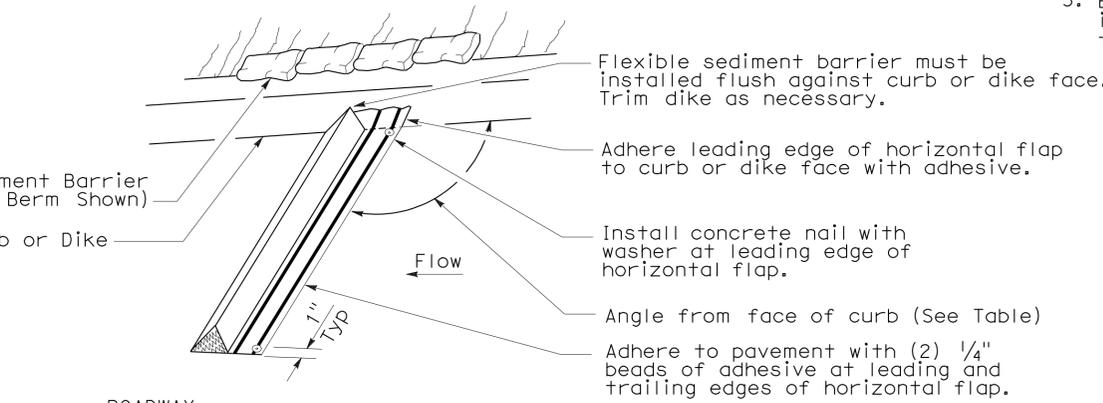
2006 NEW STANDARD PLAN NSP T62

FLEXIBLE SEDIMENT BARRIER SPACING TABLE

| SLOPE OF ROADWAY (PERCENT) | 0 to 0.9 | 1 to 1.9 | 2 to 2.9 | 3 to 4 | 5+ |
|----------------------------|----------|----------|----------|--------|-----|
| INTERVAL BETWEEN BARRIERS | 50' | 35' | 30' | 25' | 20' |
| ANGLE FROM FACE OF CURB | 70° | 70° | 70° | 45° | 45° |
| SUGGESTED BARRIER LENGTH | 6' | 6' | 6' | 6' | 6' |



FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4B) FLEXIBLE SEDIMENT BARRIER

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE
 NSP T63 DATED AUGUST 15, 2008 SUPPLEMENTS
 THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T63

To accompany plans dated 12-19-11

NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 flexible sediment barriers upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated.

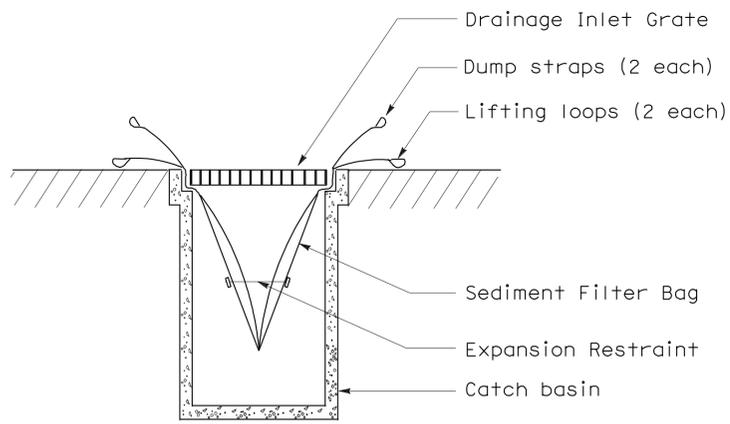
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 38 | 39 |

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT

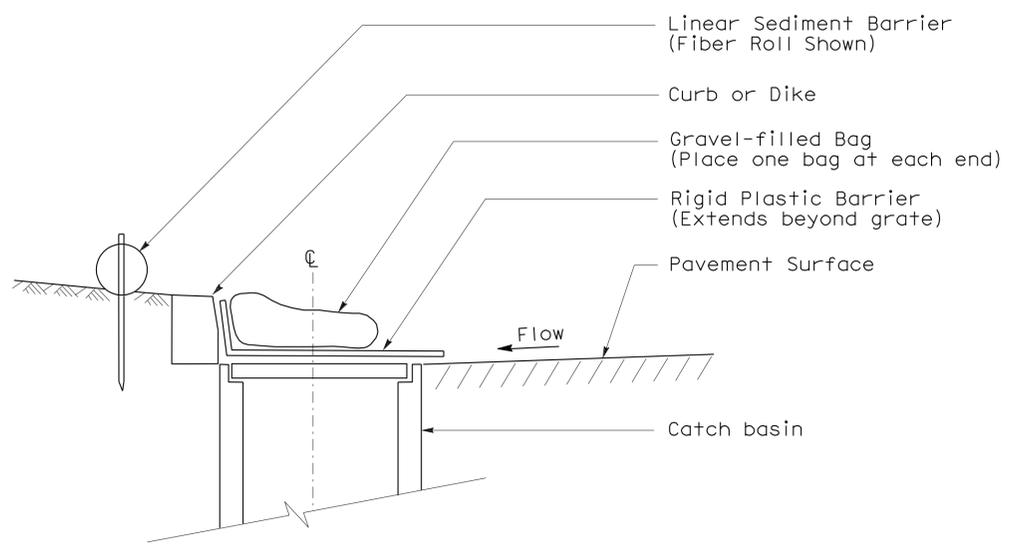
August 15, 2008
 PLANS APPROVAL DATE

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 Signature
 11-04-08
 Renewal Date
 08-11-08
 Date

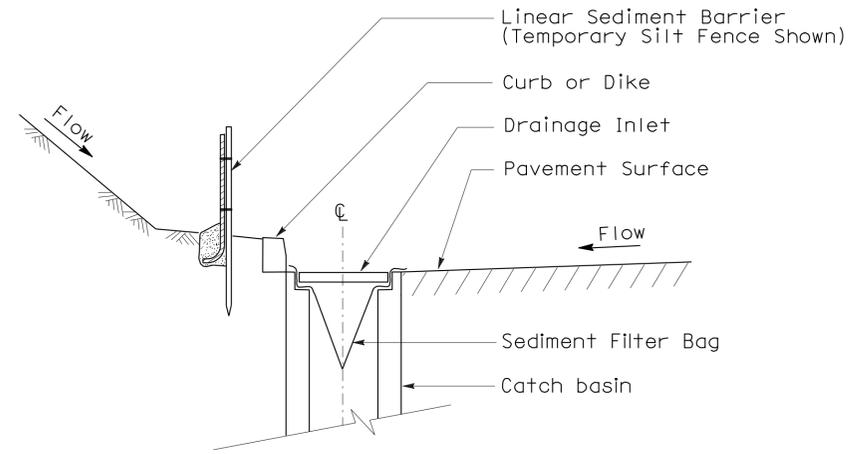
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



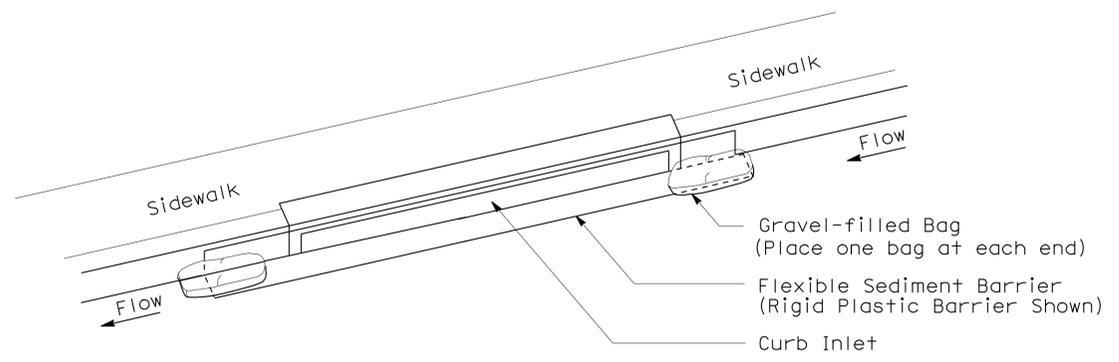
SECTION B-B
SEDIMENT FILTER BAG DETAIL



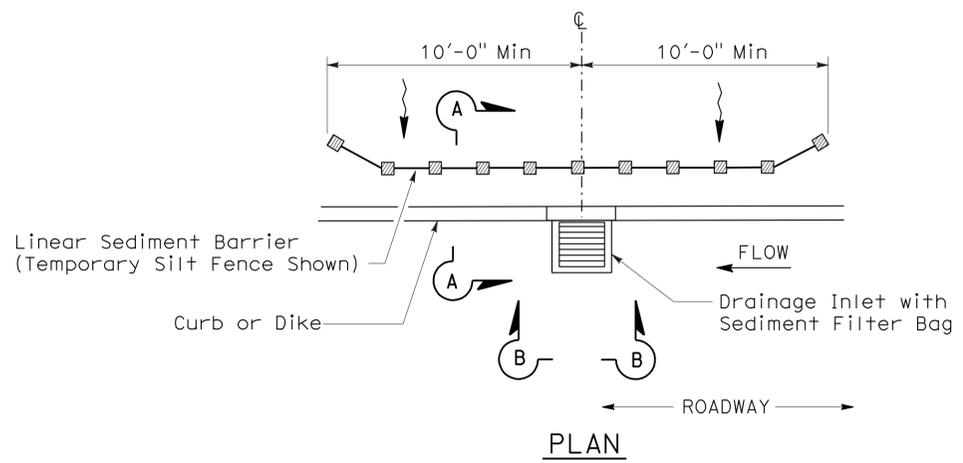
SECTION
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)



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.

To accompany plans dated 12-19-11

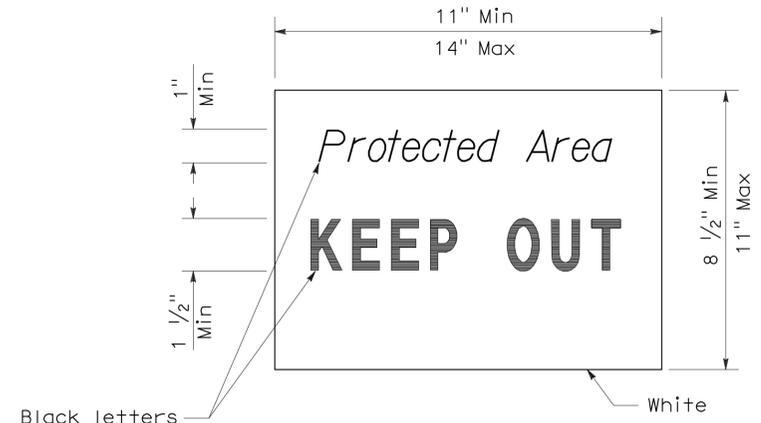
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**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.

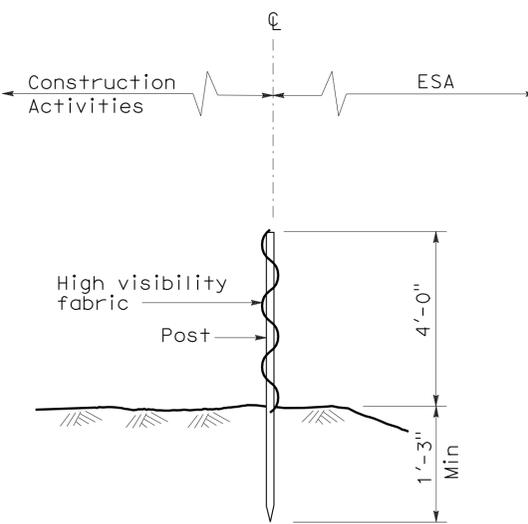
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Mad | 99 | 23.8/28.2 | 39 | 39 |

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 PLANS APPROVAL DATE
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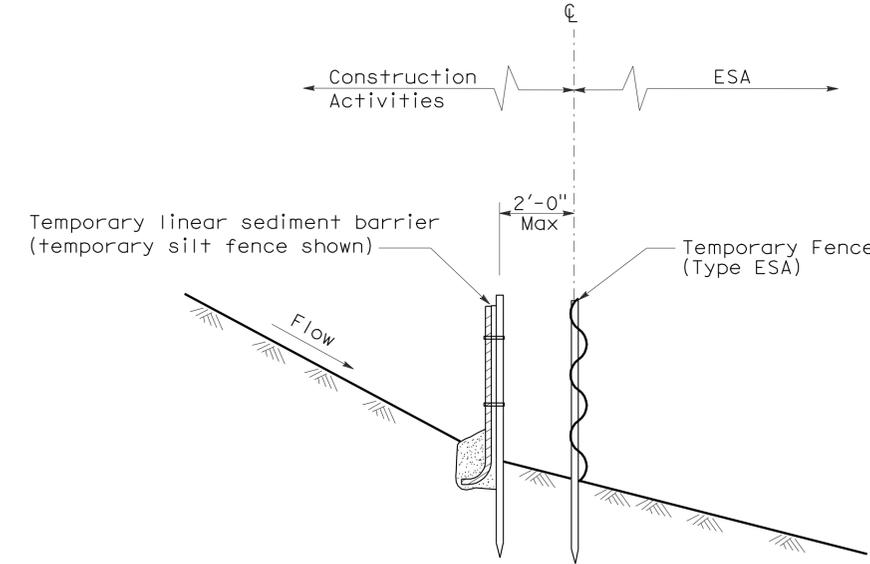


SIGN DETAIL

NOTE:
 1. Temporary silt fence and temporary straw bale barrier shown for reference purposes only.

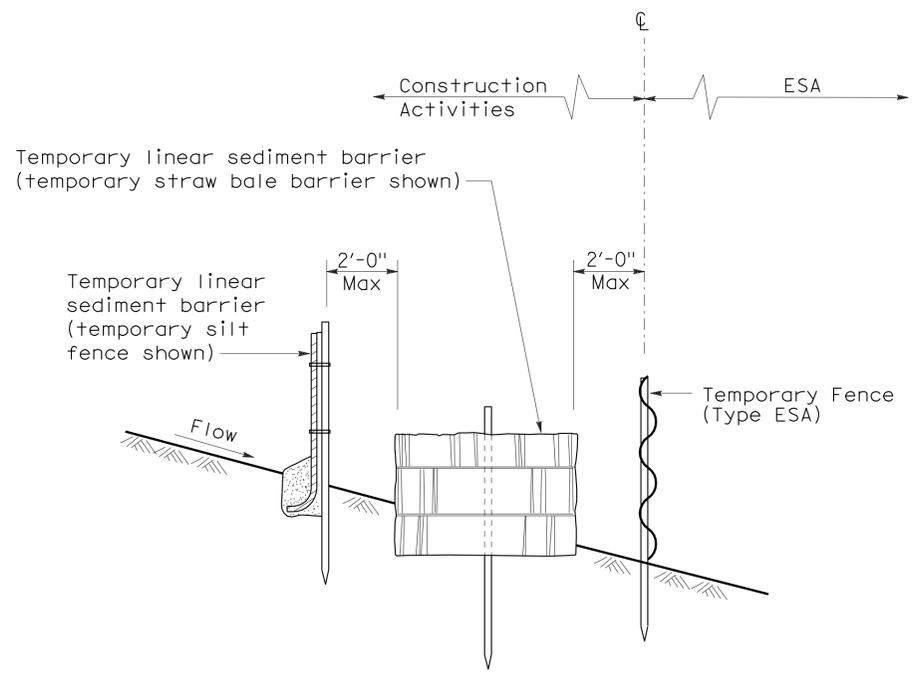


SECTION
TEMPORARY FENCE (TYPE ESA)



SECTION
PLACEMENT DETAIL
FOR TEMPORARY LINEAR SEDIMENT BARRIER
USED WITH TEMPORARY FENCE (TYPE ESA)

(See Note 1)



SECTION
PLACEMENT DETAIL
FOR TEMPORARY SILT FENCE
AND TEMPORARY STRAW BALE BARRIER
USED WITH TEMPORARY FENCE (TYPE ESA)

(See Note 1)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS
[TEMPORARY FENCE (TYPE ESA)]
 NO SCALE

NSP T65 DATED APRIL 3, 2009 SUPPLEMENTS
 THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T65