

INDEX OF PLANS

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN KERN AND KINGS COUNTIES
ABOUT 6 MILES SOUTH OF KETTLEMAN CITY
FROM ROUTE 46/5 SEPARATION TO 2.9 MILES
NORTH OF WATERLOO AVENUE OVERCROSSING

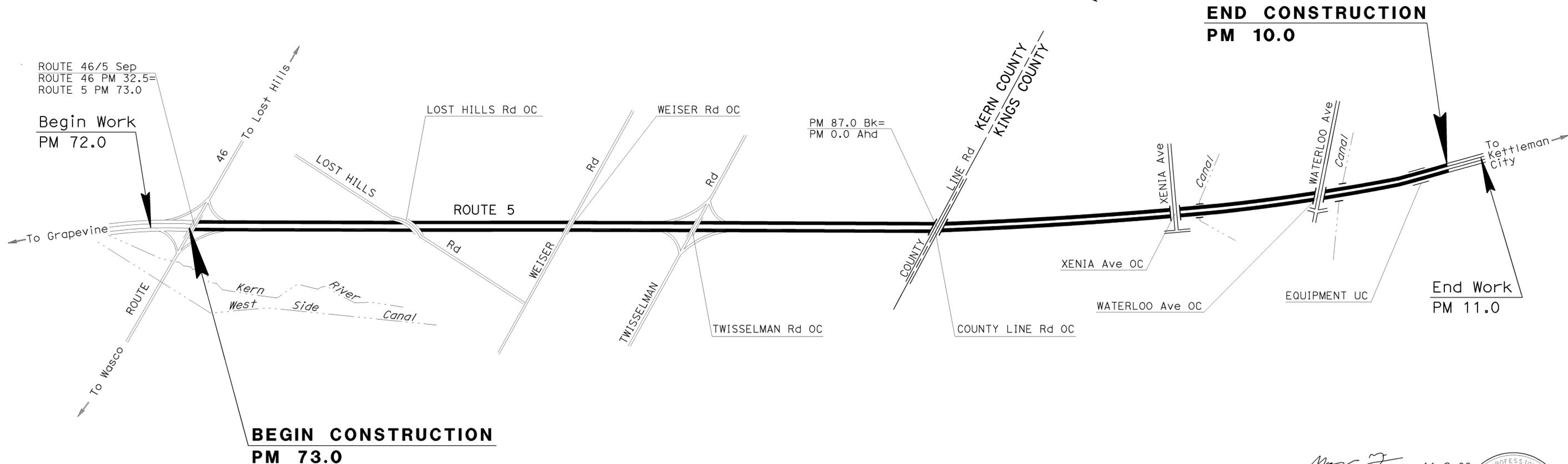
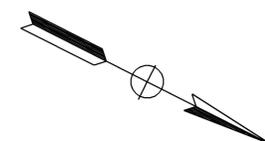
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|----------|-------|--------------------------|-----------|--------------|
| 06 | Ker, Kin | 5 | 73.0/87.0, 0.0/10.0 | 1 | 9 |





LOCATION MAP



PROJECT MANAGER
VICTOR SHAW
 DESIGN ENGINEER
RENE SANCHEZ


 PROJECT ENGINEER REGISTERED CIVIL ENGINEER
 DATE 11-2-09
 December 28, 2009
 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

| | | | | | |
|------|---------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker,Kin | 5 | 73.0/87.0, 0.0/10.0 | 3 | 9 |

| | |
|---------------------------|---------|
| <i>Maryam Rastegar</i> | 11-2-09 |
| REGISTERED CIVIL ENGINEER | DATE |
| 12-28-09 | |
| PLANS APPROVAL DATE | |

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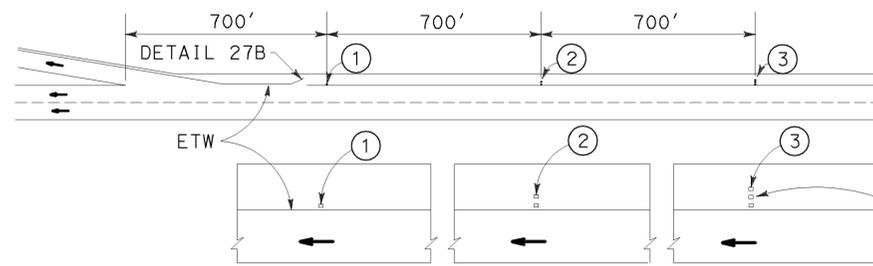


LEGEND

- RUBBERIZED SLURRY SEAL
- ASPHALTIC EMULSION (FOG SEAL COAT)
- DIRECTION OF TRAFFIC

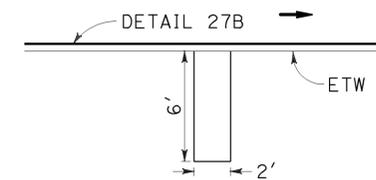
ABBREVIATION

- RHMA RUBBERIZED HOT MIX ASPHALT
- CHP CALIFORNIA HIGHWAY PATROL

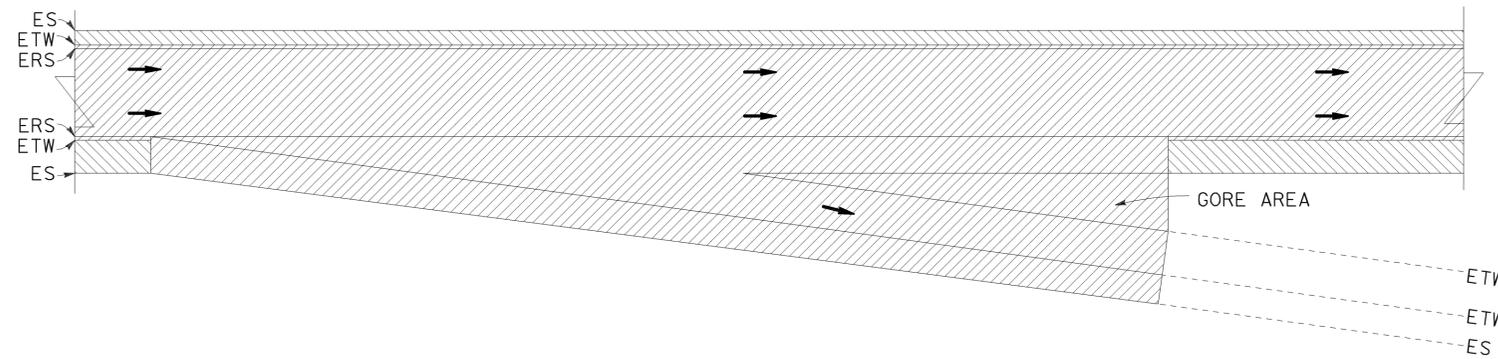


CLEAR RETROREFLECTIVE TYPE G PAVEMENT MARKERS AT 12" SPACING CENTER TO CENTER AND 8" FROM CENTER OF RUMBLE STRIP.

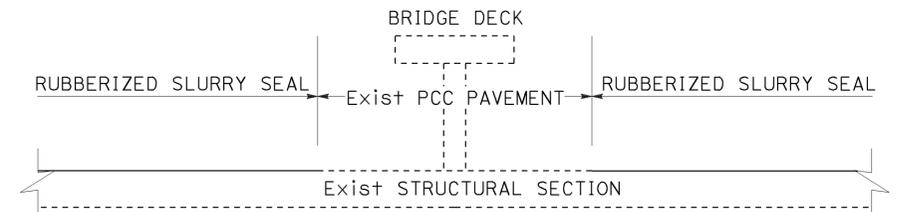
ADVANCE MARKER DETAIL



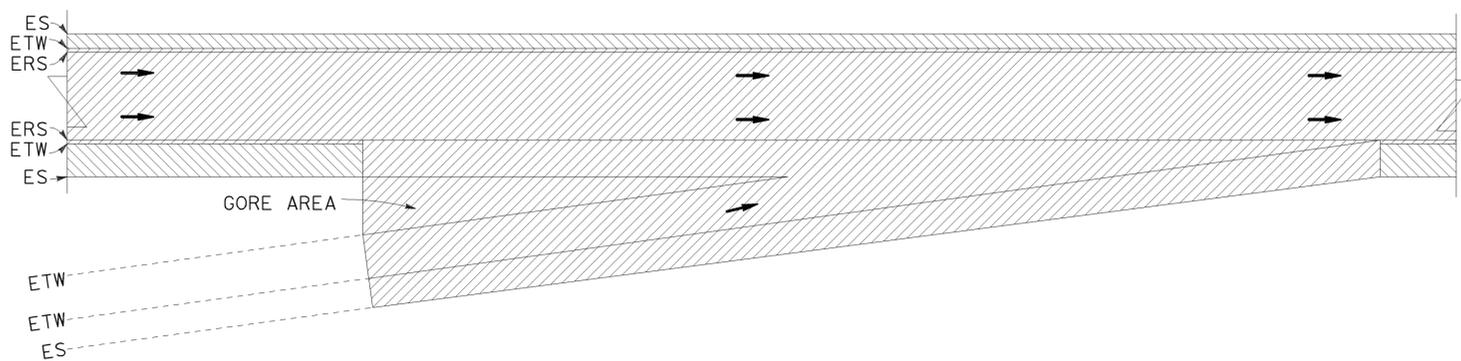
CHP MARKING DETAIL



TYPICAL RUBBERIZED SLURRY SEAL LIMITS AT EXIT RAMPS



TYPICAL RUBBERIZED SLURRY SEAL LIMITS AT OVERCROSSINGS



TYPICAL RUBBERIZED SLURRY SEAL LIMITS AT ENTRANCE RAMPS

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR
RENE SANCHEZ

CHECKED BY

DESIGNED BY

REVISOR
MAYAM RASTEGAR

DATE

REVISION

REVISOR
RENE SANCHEZ

DATE

REVISION

REVISOR

DATE

REVISION

x

x

x

x

x

x

x

x

x

x

REVISOR: MARYAM RASTEGAR
 CHECKED BY: RENE SANCHEZ

FUNCTIONAL SUPERVISOR: RENE SANCHEZ

DESIGNED BY: MARYAM RASTEGAR
 CHECKED BY: RENE SANCHEZ

| | | | | | |
|------|---------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker,Kin | 5 | 73.0/87.0, 0.0/10.0 | 5 | 9 |

11-2-09
 REGISTERED CIVIL ENGINEER DATE

12-28-09
 PLANS APPROVAL DATE

MARYAM RASTEGAR
 No. 65550
 Exp. 9-30-11
 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.

REMOVE PAVEMENT

| LOCATION* | No. 1 LANE (FULL PANEL)*** | No. 2 LANE (FULL PANEL)*** | REMOVE PAVEMENT | TACK COAT | HOT MIX ASPHALT (TYPE A) | |
|-----------------------|-------------------------------|-------------------------------|--------------------|-----------|-----------------------------|-------|
| | EA | EA | CY | TON | TON | |
| Ker 5 | PM 73.7 TO PM 73.8 NB | | 1 | 8 | 0.01 | 16.2 |
| | PM 77.0 TO PM 77.2 NB | | 10 | 80 | 0.13 | 162.0 |
| | PM 79.3 TO PM 79.9 NB | | 8 | 64 | 0.11 | 129.6 |
| | PM 82.3 TO PM 82.9 NB | 1 | 7 | 64 | 0.09 | 129.6 |
| | PM 84.2 TO PM 85.0 NB | | 4 | 32 | 0.05 | 64.8 |
| | PM 85.2 TO PM 85.7 NB | | 14 | 112 | 0.19 | 226.8 |
| | PM 86.1 TO PM 87.0 NB | | 5 | 40 | 0.07 | 81.0 |
| | PM 75.3 TO PM 75.5 SB | | 2 | 16 | 0.03 | 32.4 |
| | PM 77.1 TO PM 78.0 SB | | 3 | 24 | 0.04 | 48.6 |
| | PM 78.8 TO PM 78.9 SB | | 1 | 8 | 0.11 | 16.2 |
| | PM 79.2 TO PM 79.8 SB | | 5 | 40 | 0.07 | 81.0 |
| | PM 80.0 TO PM 81.0 SB | | 1 | 8 | 0.01 | 16.2 |
| | PM 82.3 TO PM 82.7 SB | | 3 | 24 | 0.04 | 48.6 |
| | PM 83.0 TO PM 83.9 SB | | 5 | 40 | 0.07 | 81.0 |
| PM 85.0 TO PM 85.4 SB | | 2 | 16 | 0.03 | 32.4 | |
| SUB TOTAL | | | 576** | 1.0** | 1166.4** | |
| Kin 5 | PM 0.0 TO PM 0.8 NB | | 10 | 80 | 0.23 | 162.0 |
| | PM 1.0 TO PM 2.0 NB | | 7 | 56 | 0.19 | 113.4 |
| | PM 2.2 TO PM 3.0 NB | | 28 | 224 | 0.37 | 453.6 |
| | PM 3.0 TO PM 3.8 NB | | 10 | 80 | 0.23 | 162.0 |
| | PM 4.0 TO PM 4.5 NB | | 11 | 88 | 0.15 | 178.2 |
| | PM 6.0 TO PM 6.5 NB | | 1 | 8 | 0.11 | 16.2 |
| | PM 7.0 TO PM 7.2 NB | 1 | 2 | 24 | 0.15 | 48.6 |
| | PM 9.3 TO PM 9.9 NB | | 7 | 56 | 0.09 | 113.4 |
| | PM 4.4 TO PM 4.5 SB | 2 | 2 | 32 | 0.05 | 64.8 |
| | PM 6.1 TO PM 6.7 SB | | 8 | 64 | 0.21 | 129.6 |
| PM 7.0 TO PM 7.5 SB | 1 | 3 | 32 | 0.05 | 64.8 | |
| PM 9.9 TO PM 10.0 SB | | 2 | 16 | 0.05 | 32.4 | |
| SUB TOTAL | | | 760** | 2.0** | 1539.0** | |

* EXACT LOCATION AS DIRECTED BY THE ENGINEER.
 ** INCLUDED IN ROADWAY QUANTITIES TABLE (SEE SHEET Q-2).
 *** EACH FULL PANEL IS 12 FEET WIDE AND 15 FEET LONG

**SUMMARY OF QUANTITIES
 Q-1**

LAST REVISION: DATE PLOTTED => 14-JAN-2010
 12-28-09 TIME PLOTTED => 13:18

| | | | | | |
|------|---------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker,Kin | 5 | 73.0/87.0, 0.0/10.0 | 6 | 9 |

11-2-09
 REGISTERED CIVIL ENGINEER DATE
 12-28-09
 PLANS APPROVAL DATE

MARYAM RASTEGAR
 No. 65550
 Exp. 9-30-11
 CIVIL

THE STATE OF CALIFORNIA OR ITS OFFICERS
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 THE ACCURACY OR COMPLETENESS OF SCANNED
 COPIES OF THIS PLAN SHEET.

ROADWAY QUANTITIES

| LOCATION | REMOVE PAVEMENT | HOT MIX ASPHALT (TYPE A) | ASPHALTIC EMULSION (FOG SEAL COAT) | RUBBERIZED SLURRY SEAL | TACK COAT |
|-----------------------------|-----------------|-----------------------------|---------------------------------------|------------------------|--------------|
| | CY | TON | TON | TON | TON |
| Ker 5 PM 73.0 TO PM 87.0 | 576.0 | 1166.4 | 95.8 | 6,323.7 | 1.0 |
| Kin 5 PM 0.0 TO PM 10.0 | 760.0 | 1539.0 | 68.4 | 4,516.9 | 2.0 |
| TOTAL | 1336.0 | 2705.4 | 164.2 | 10,840.6 | 3.0 |

PAVEMENT DELINEATION QUANTITIES

| LOCATION | DETAIL No. | PAVEMENT MARKER (RETROREFLECTIVE) | | THERMOPLASTIC TRAFFIC STRIPE | | | | | THERMOPLASTIC PAVEMENT MARKING | | REMOVE THERMOPLASTIC PAVEMENT MARKING | REMOVE THERMOPLASTIC TRAFFIC STRIPE | REMOVE PAVEMENT MARKER (N) | |
|-----------------------------|------------|--------------------------------------|-----------------------------|------------------------------|---------------------|-------------|--------------|-------------|-----------------------------------|------|---|---|----------------------------------|--------|
| | | TYPE G ONE-WAY CLEAR | TYPE H ONE-WAY YELLOW | 4" (BROKEN 36-12) | 4" (BROKEN 17-7) | 4" WHITE | 4" YELLOW | 8" WHITE | DESCRIPTION | SQFT | SQFT | LF | EA | |
| | | | | EA | EA | LF | LF | LF | | | | | | LF |
| Ker 5 PM 73.0 TO PM 87.0 | 12 | 3082 | | 147,840 | | | | | 26-CHP MARKING | 312 | 156 | | | 3,082 |
| | 25 | | 3082 | | | | 147,840 | | | | | | | 3,082 |
| | 27B | | | | | 147,840 | | | | | | | | |
| | 36 | 76 | | | | | | 1823 | | | | 3648 | | 76 |
| | 36A | 41 | | | | 605 | | 952 | | | | 1904 | | 41 |
| Kin 5 PM 0.0 TO PM 10.0 | 12 | 2202 | | 105,600 | | | | | 22-CHP MARKING | 264 | 132 | | | 2,202 |
| | 25 | | 2202 | | | | 105,600 | | | | | | | 2,202 |
| | 27B | | | | | 105,600 | | | | | | | | |
| SUB TOTAL | | 5401 | 5284 | 253,440 | 605 | 253,440 | 253,440 | 2775 | | 576 | 288 | 5552 | | 10,685 |
| TOTAL | | 10,685 | | 253,440 | 605 | 506,880 | | 2775 | | 576 | 288 | 5552 | | 10,685 |

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

SUMMARY OF QUANTITIES Q-2

| | | | | | |
|------|----------|-------|-----------------------------|--------------|-----------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 06 | Ker, Kin | 5 | 73.0/87.0, 0.0/10.0 | 7 | 9 |

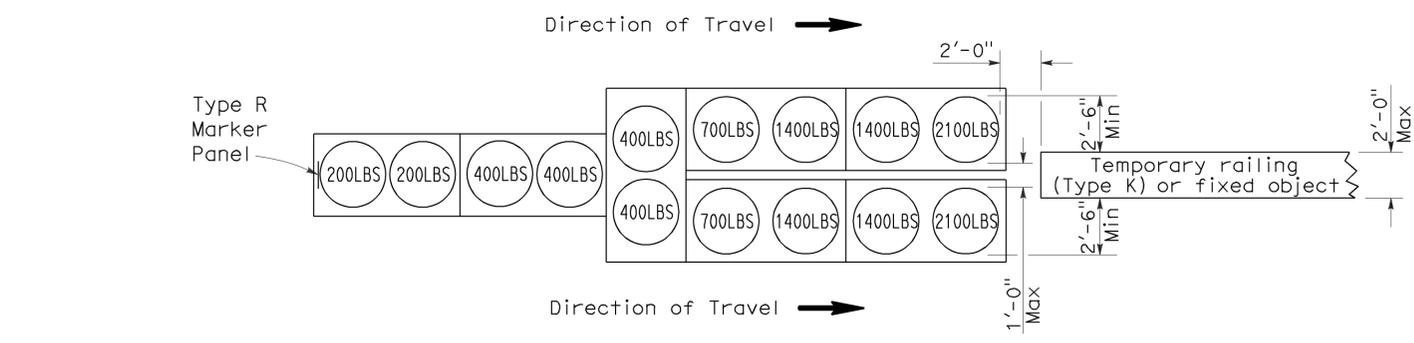
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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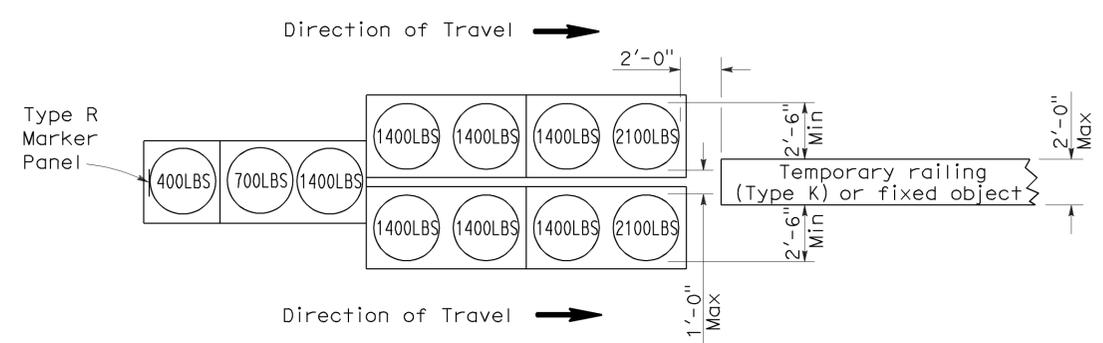
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 12-28-09



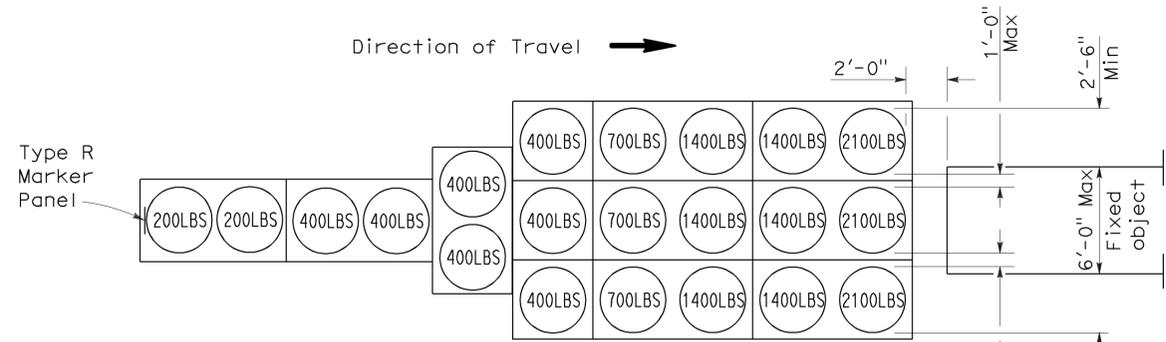
ARRAY 'TU14'

Approach speed 45 mph or more



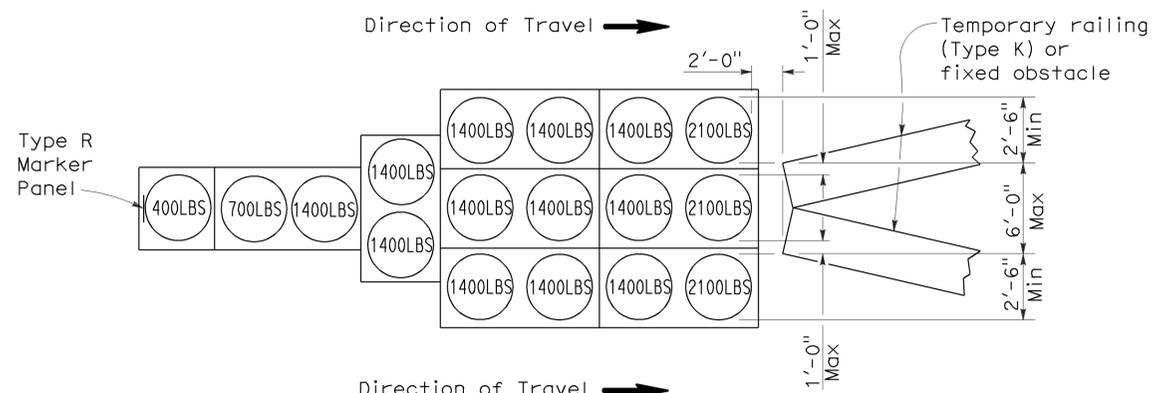
ARRAY 'TU11'

Approach speed less than 45 mph



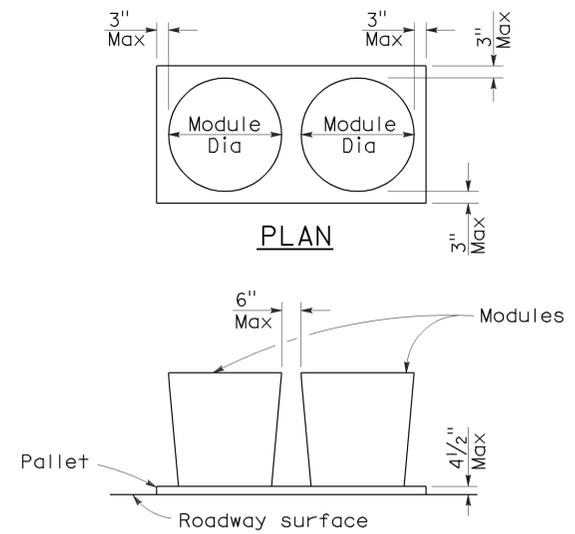
ARRAY 'TU21'

Approach speed 45 mph or more



ARRAY 'TU17'

Approach speed less than 45 mph



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 |
| 06 | Ker, Kin | 5 | 73.0/87.0, 0.0/10.0 | 8 | 9 |

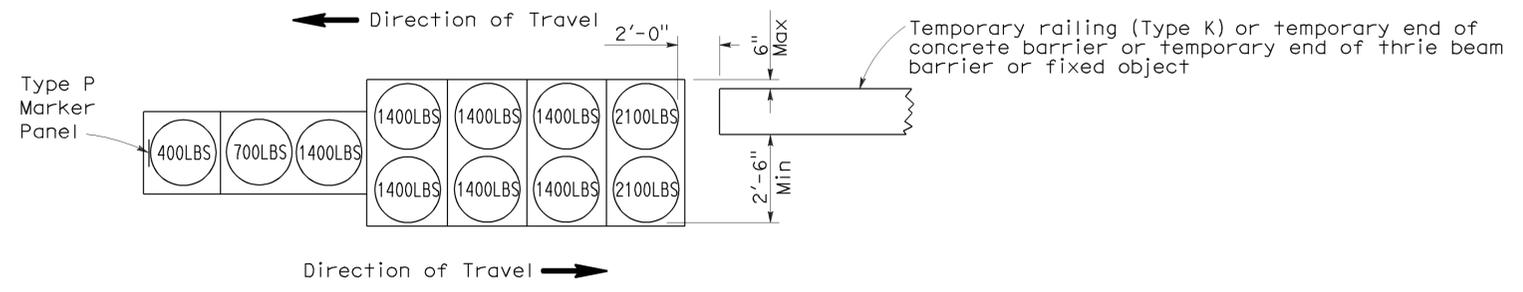
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

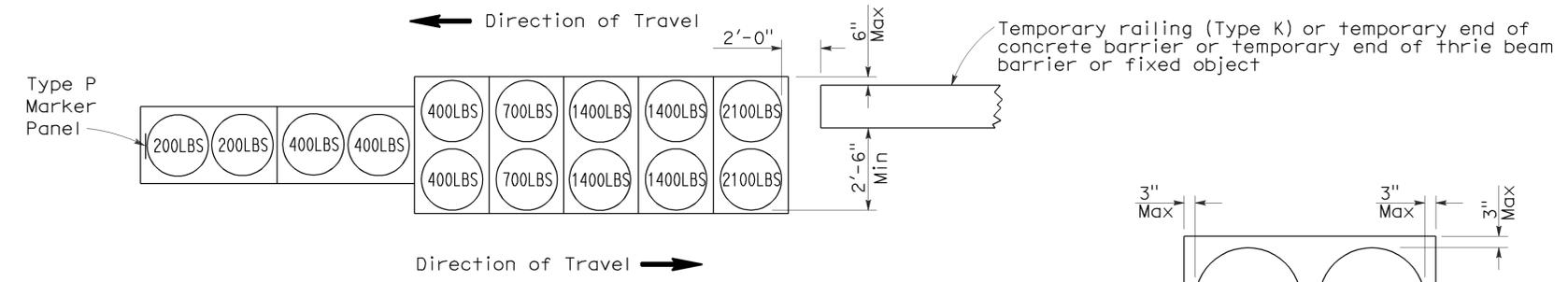
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Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

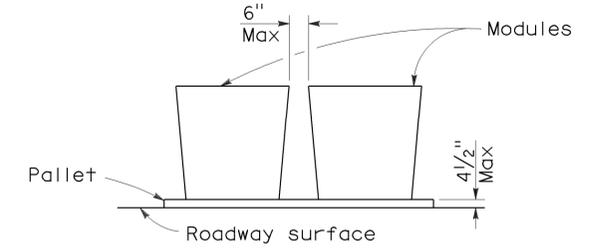
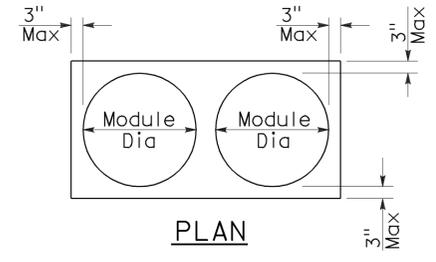
To accompany plans dated 12-28-09



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

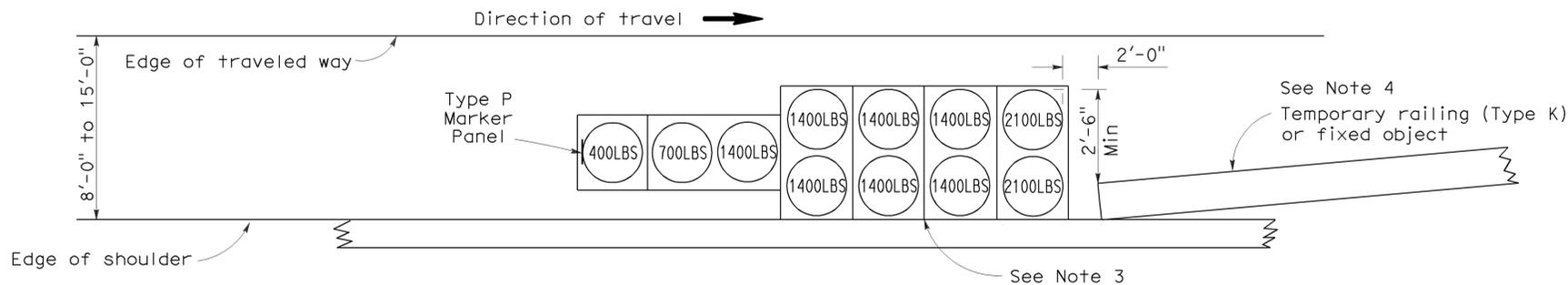
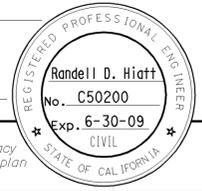
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|----------|-------|--------------------------|-----------|--------------|
| 06 | Ker, Kin | 5 | 73.0/87.0, 0.0/10.0 | 9 | 9 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

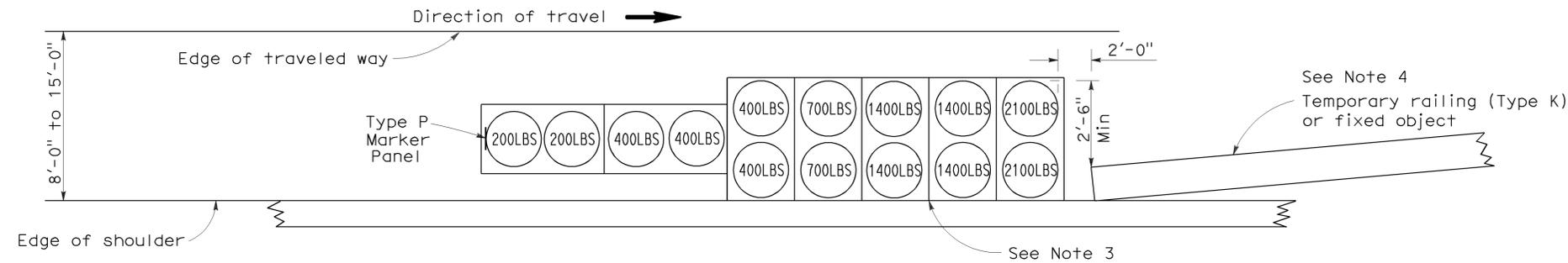
June 6, 2008
PLANS APPROVAL DATE

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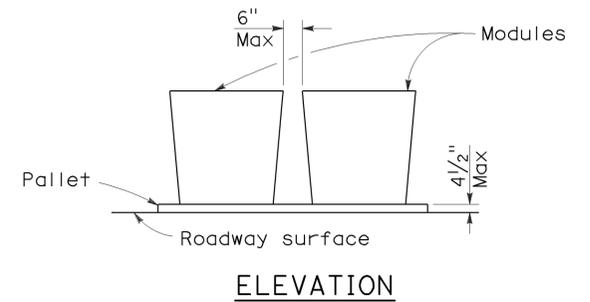
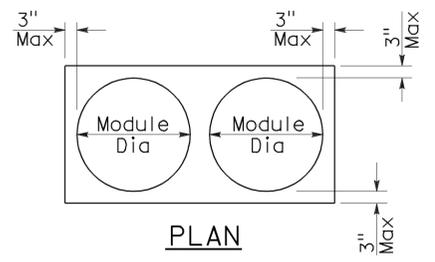
To accompany plans dated 12-28-09



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