

**Meeting of the Central Valley Flood Protection Board  
June 24, 2011**

**Staff Report – Encroachment Permit**

**Yuba County – Department of Public Works  
Traffic Hazard Lights, Yuba County**

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**1.0 – ITEM**

Consider approval of Permit No. 18659 (Attachment B)

**2.0 – APPLICANT**

Yuba County Department of Public Works

**3.0 – LOCATION**

The project is located at the intersection of Hammonton-Smartville Road and Simpson Lane, east of Marysville.  
(Yuba River Designated Floodway, Yuba County, see Attachment A)

**4.0 – DESCRIPTION**

The applicant proposes to authorize two traffic flashing beacon poles and approximately 771-feet of 2-inch diameter electrical conduit on the landside and over the left (south) bank levee of the Yuba River and inside the Yuba River Designated Floodway.

**5.0 – PROJECT ANALYSIS**

This traffic hazard reduction project was installed by Yuba County in conjunction with the new traffic control network at the intersection of Hammonton-Smartville Road and Simpson Lane. This intersection has a history of public complaints and collisions due to limited sight distances for south bound Simpson Lane and west bound Hammonton-Smartville Road. There are multiple aggregate mines in the surrounding area that create high truck volumes utilizing the intersection. In addition, these roads are used

heavily by agricultural vehicles and equipment. The flashing beacons will help make this a safer intersection by alerting motorists of the impending stop conditions.

A total of approximately 771-feet of two-inch diameter electrical conduit, buried a maximum of 30-inches, was installed to supply electrical power to the two flashing beacons. Conduit to the first flashing beacon runs parallel to the left (south) bank levee of the Yuba River in the Hammonton-Smartville Road right-of-way. Conduit to the second beacon pole runs up and over the left (south) bank levee and approximately 350-feet inside the Yuba River Designated Floodway in the Simpson Lane right-of-way. Electrical power was routed from existing pull boxes located south of the intersection. The project conforms to all applicable standards in Title 23, Section 123.

### **5.1 – Hydraulic Analysis**

The project is primarily buried electrical conduit with the exception of one four-inch diameter flashing beacon pole inside the Yuba River Designated Floodway. Therefore a hydraulic analysis is not required.

### **5.2 – Geotechnical Analysis**

The scope of work for this project does not require a geotechnical analysis.

## **6.0 – AGENCY COMMENTS AND ENDORSEMENTS**

The comments and endorsements associated with this project, from all pertinent agencies are shown below:

- Reclamation District No. 784 endorsed this project on December 07, 2010 with conditions. The conditions will be incorporated into the permit as Exhibit A.
- The U.S. Army Corps of Engineers 208.10 comment letter has not yet been received for this application. Upon receipt of a favorable letter and review by Board staff the letter will be incorporated into the permit as Exhibit B.

## **7.0 – CEQA ANALYSIS**

Board staff has prepared the following CEQA determination:

The County of Yuba, as lead agency under CEQA, approved the project (Hammonton-Smartville Traffic Signals) on May 27, 2009 and determined that the project was

categorically exempt under Class 1 Categorical Exemption (CEQA Guidelines Section 15301(f)) covering projects that add safety or health protection devices for use during construction of or in conjunction with existing structures, facilities, or mechanical equipment, or topographical features including navigational devices.

The Board, acting as a responsible agency under CEQA, has reviewed the Yuba County determination and has independently determined that the project is exempt from CEQA under exempt under Class 1 Categorical Exemption (CEQA Guidelines Section 15301(f)) covering projects that add safety or health protection devices for use during construction of or in conjunction with existing structures, facilities, or mechanical equipment, or topographical features including navigational devices.

### **8.0 – SECTION 8610.5 CONSIDERATIONS**

1. Evidence that the Board admits into its record from any party, State or local public agency, or nongovernmental organization with expertise in flood or flood plain management:

The Board will make its decision based on the evidence in the permit application and attachments, this staff report, and any other evidence presented by any individual or group.

2. The best available science that related to the scientific issues presented by the executive officer, legal counsel, the Department or other parties that raise credible scientific issues.

The accepted industry standards for the work proposed under this permit as regulated by Title 23 have been applied to the review of this permit.

3. Effects of the decision on the entire State Plan of Flood Control:

The project involves primarily buried electrical conduit and any effects on the State Plan of Flood Control are considered insignificant.

4. Effects of reasonable projected future events, including, but not limited to, changes in hydrology, climate, and development within the applicable watershed:

Effects from reasonable projected future events on the proposed project are anticipated to be minimal. Increases in flows due to climate change could require that the project be relocated.

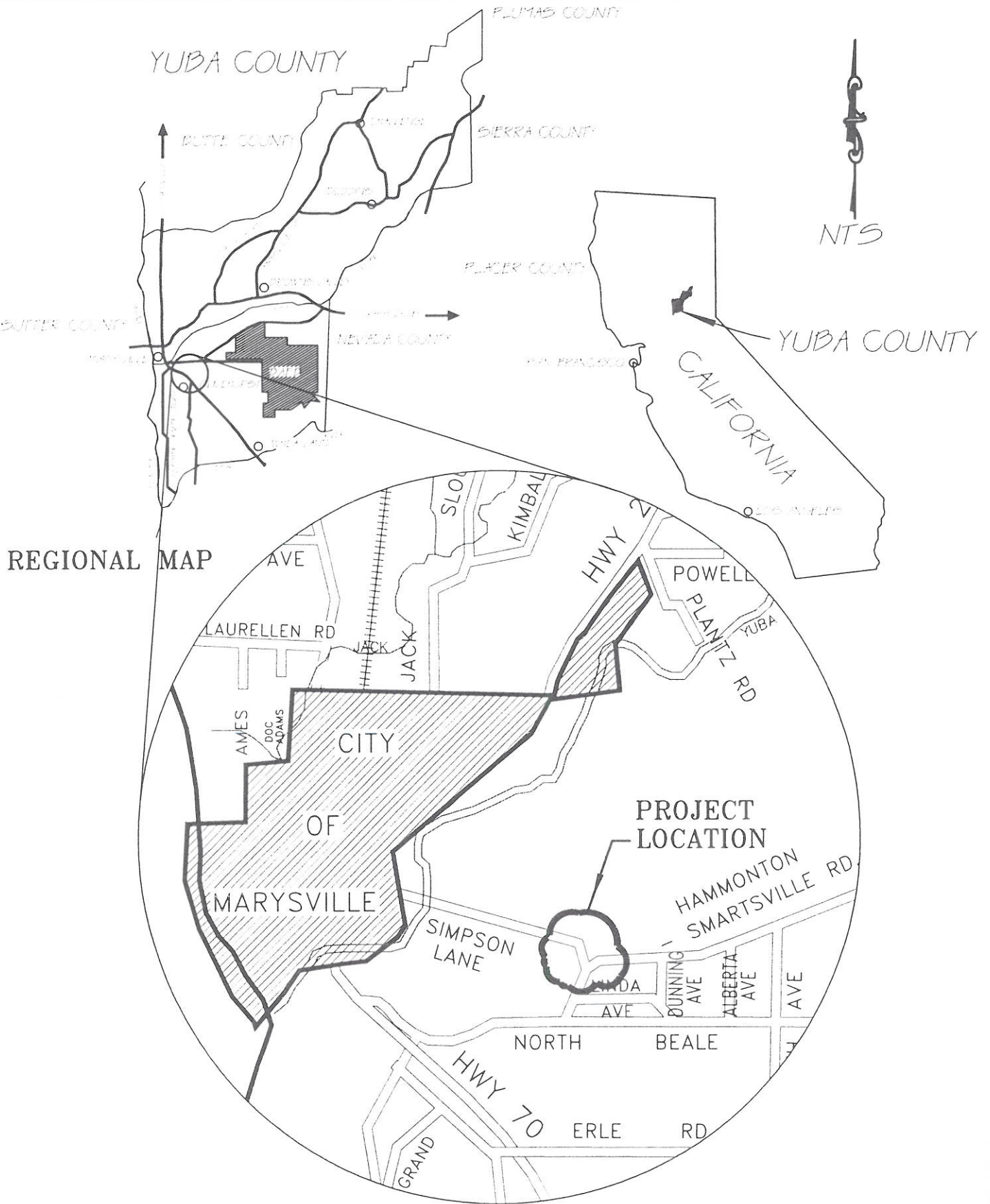
## **9.0 – STAFF RECOMMENDATION**

Staff recommends that the Board determine the project be exempt from CEQA, approve Permit No. 18659 conditioned upon receipt of a USACE 208.10 letter of determination confirming that the Corps has no objection to the project, and direct the Executive Officer to take necessary actions to execute the permit.

## **10.0 – LIST OF ATTACHMENTS**

- A. Location Maps and Photos
- B. Draft Permit No. 18659
- C. Design Drawings

Design Review:	Gary W. Lemon P.E.
Environmental Review:	James Herota / Andrea Mauro
Document Review:	Mitra Emami P.E., Len Marino P.E.



HAMMONTON-SMARTVILLE RD. & SIMPSON LN.  
TRAFFIC SIGNAL PROJECT





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**DRAFT**

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
**THE CENTRAL VALLEY FLOOD PROTECTION BOARD**

**PERMIT NO. 18659 BD**

**This Permit is issued to:**

County of Yuba - Department of Public Works  
915 8th Street  
Suite 125  
Marysville, California 95901

To authorize two traffic flashing beacon poles and approximately 771-feet of 2-inch electrical conduit on the landside and over the left (south) bank levee of the Yuba River and inside the Yuba River Designated Floodway. The project is located at the intersection of Hammonton-Smartville Road and Simpson Lane, east of Marysville (Section 20, T15N, R4E, MDB&M, Reclamation District 784, Yuba River, Yuba County).

**NOTE:** Special Conditions have been incorporated herein which may place limitations on and/or require modification of your proposed project as described above.

**(SEAL)**

Dated: \_\_\_\_\_

\_\_\_\_\_  
Executive Officer

**GENERAL CONDITIONS:**

**ONE:** This permit is issued under the provisions of Sections 8700 – 8723 of the Water Code.

**TWO:** Only work described in the subject application is authorized hereby.

**THREE:** This permit does not grant a right to use or construct works on land owned by the Sacramento and San Joaquin Drainage District or on any other land.

**FOUR:** The approved work shall be accomplished under the direction and supervision of the State Department of Water Resources, and the permittee shall conform to all requirements of the Department and The Central Valley Flood Protection Board.

**FIVE:** Unless the work herein contemplated shall have been commenced within one year after issuance of this permit, the Board reserves the right to change any conditions in this permit as may be consistent with current flood control standards and policies of The Central Valley Flood Protection

Board.

**SIX:** This permit shall remain in effect until revoked. In the event any conditions in this permit are not complied with, it may be revoked on 15 days' notice.

**SEVEN:** It is understood and agreed to by the permittee that the start of any work under this permit shall constitute an acceptance of the conditions in this permit and an agreement to perform work in accordance therewith.

**EIGHT:** This permit does not establish any precedent with respect to any other application received by The Central Valley Flood Protection Board.

**NINE:** The permittee shall, when required by law, secure the written order or consent from all other public agencies having jurisdiction.

**TEN:** The permittee is responsible for all personal liability and property damage which may arise out of failure on the permittee's part to perform the obligations under this permit. If any claim of liability is made against the State of California, or any departments thereof, the United States of America, a local district or other maintaining agencies and the officers, agents or employees thereof, the permittee shall defend and shall hold each of them harmless from each claim.

**ELEVEN:** The permittee shall exercise reasonable care to operate and maintain any work authorized herein to preclude injury to or damage to any works necessary to any plan of flood control adopted by the Board or the Legislature, or interfere with the successful execution, functioning or operation of any plan of flood control adopted by the Board or the Legislature.

**TWELVE:** Should any of the work not conform to the conditions of this permit, the permittee, upon order of The Central Valley Flood Protection Board, shall in the manner prescribed by the Board be responsible for the cost and expense to remove, alter, relocate, or reconstruct all or any part of the work herein approved.

#### **SPECIAL CONDITIONS FOR PERMIT NO. 18659 BD**

**THIRTEEN:** All work approved by this permit shall be in accordance with the submitted drawings and specifications except as modified by special permit conditions herein. No further work, other than that approved by this permit, shall be done in the area without prior approval of the Central Valley Flood Protection Board.

**FOURTEEN:** The permittee is responsible for all liability associated with construction, operation, and maintenance of the permitted facilities and shall defend, indemnify, and hold the Central Valley Flood Protection Board and the State of California; including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages arising from the project undertaken pursuant to this permit, all to the extent allowed by law. The State expressly reserves the right to supplement or take over its defense, in its sole discretion

**FIFTEEN:** The permittee shall defend, indemnify, and hold the Central Valley Flood Protection Board and the State of California, including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages related to the Central Valley Flood Protection Board's approval of this permit, including but not limited to claims filed pursuant to the California Environmental Quality Act. The State expressly reserves the right to supplement or take over its defense, in its sole discretion.

**SIXTEEN:** The Central Valley Flood Protection Board, Department of Water Resources, and Reclamation District No. 784 shall not be held liable for any damages to the permitted encroachment(s) resulting from flood fight, operation, maintenance, inspection, or emergency repair.

**SEVENTEEN:** No construction work of any kind shall be done during the flood season from

November 1st to April 15th without prior approval of the Central Valley Flood Protection Board.

EIGHTEEN: The permittee shall contact the Department of Water Resources by telephone, (916) 574-0609, and submit the enclosed postcard to schedule a compliance conference.

NINETEEN: Trees and brush cleared for construction shall be completely burned or removed from the Yuba River Designated Floodway.

TWENTY: The invert of the electrical conduit through the levee section shall be above the design flood plane elevation of 77.6-feet, NGV Datum.

TWENTY-ONE: Only impervious material shall be used for bedding or backfill within the levee section.

TWENTY-TWO: The pipe shall be buried at least 12 inches below the levee slopes and 24 inches below the levee crown.

TWENTY-THREE: The electric conduit within the Yuba River Designated Floodway shall be buried with a minimum of 2 feet of cover.

TWENTY-FOUR: Backfill material for excavations within the Yuba River Designated Floodway shall be placed in 4- to 6-inch layers and compacted to at least the density of the adjacent, firm, undisturbed material.

TWENTY-FIVE: Backfill material for excavations within the levee section and within 10 feet of the levee toes shall be placed in 4- to 6-inch layers, moisture conditioned above optimum moisture content, and compacted to a minimum of 90 percent relative compaction as measured by ASTM Method D1557-91.

TWENTY-SIX: Density tests by a certified materials laboratory will be required to verify compaction of backfill within the levee section and within 10-feet of the levee toes.

TWENTY-SEVEN: The project site shall be restored to at least the condition that existed prior to commencement of work.

TWENTY-EIGHT: The permittee shall replant or reseed the levee slopes to restore sod, grass, or other non-woody ground covers if damaged during project work.

TWENTY-NINE: The permittee shall maintain the permitted encroachment(s) and the project works within the utilized area in the manner required and as requested by the authorized representative of the Department of Water Resources or any other agency responsible for maintenance.

THIRTY: The permitted encroachment(s) shall not interfere with operation and maintenance of the flood control project. If the permitted encroachment(s) are determined by any agency responsible for operation or maintenance of the flood control project to interfere, the permittee shall be required, at permittee's cost and expense, to modify or remove the permitted encroachment(s) under direction of the Central Valley Flood Protection Board or Department of Water Resources. If the permittee does not comply, the Central Valley Flood Protection Board may modify or remove the encroachment(s) at

the permittee's expense.

THIRTY-ONE: The permittee may be required, at permittee's cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted encroachment(s) if removal, alteration, relocation, or reconstruction is necessary as part of or in conjunction with any present or future flood control plan or project or if damaged by any cause. If the permittee does not comply, the Central Valley Flood Protection Board may remove the encroachment(s) at the permittee's expense.

THIRTY-TWO: The permittee shall comply with all conditions set forth by Reclamation District No. 784 dated December 7, 2010, which is attached to this permit as Exhibit A and is incorporated by reference.

THIRTY-THREE: The permittee shall comply with all conditions set forth in the letter from the Department of the Army dated June XX, 2011, which is attached to this permit as Exhibit B and is incorporated by reference.

THIRTY-FOUR: The permittee shall submit as-built plans to: Department of Water Resources, Flood Project Inspection Section, 3310 El Camino Avenue, Suite 256, Sacramento, California 95821.

**APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD  
ENCROACHMENT PERMIT**

Application No. 18659  
(For Office Use Only)

1. Description of proposed work:

*The intersection at Hammonton-Smartsville Rd and Simpson Lane has a history of public complaints and collisions due to limited sight distance and unprotected turning movements. There are multiple aggregate mines in the surrounding area that lead to high truck volumes utilizing the intersection. Six Traffic Signal Warrants were met as set forth in the Caltrans Traffic Manual. Installing a 4 phase traffic signal allows for all traffic movements to be protected. Advanced flashing beacons will alert motorists of impending stop conditions where sight distances are limited, such as over the levee that crosses Simpson Lane. As there has never been a traffic signal in this location, advanced flashing beacons will be installed on all legs of the intersection to warn motorists of the new signal. This application addresses two beacons, one on the landside of the levee and one on the waterside, and approximately 771 feet of 2-inch electrical conduit.*

Township: 15 North (S), Range 4 East (W), M. D. B. & M.

3. Yuba County Dept. of Public Works of 915 8<sup>th</sup> Street, Suite 125  
Name of Applicant Address  
Marysville CA 95901 (530) 749-5420  
City State Zip Code Telephone Number  
(530) 749-5424  
Fax Number

4. Endorsement: (of Reclamation District)

We, the Trustees of Reclamation District No. 784  
Name and District Number

approve this plan, subject to the following conditions:

- Conditions listed on back of this form  Conditions Attached  No Conditions

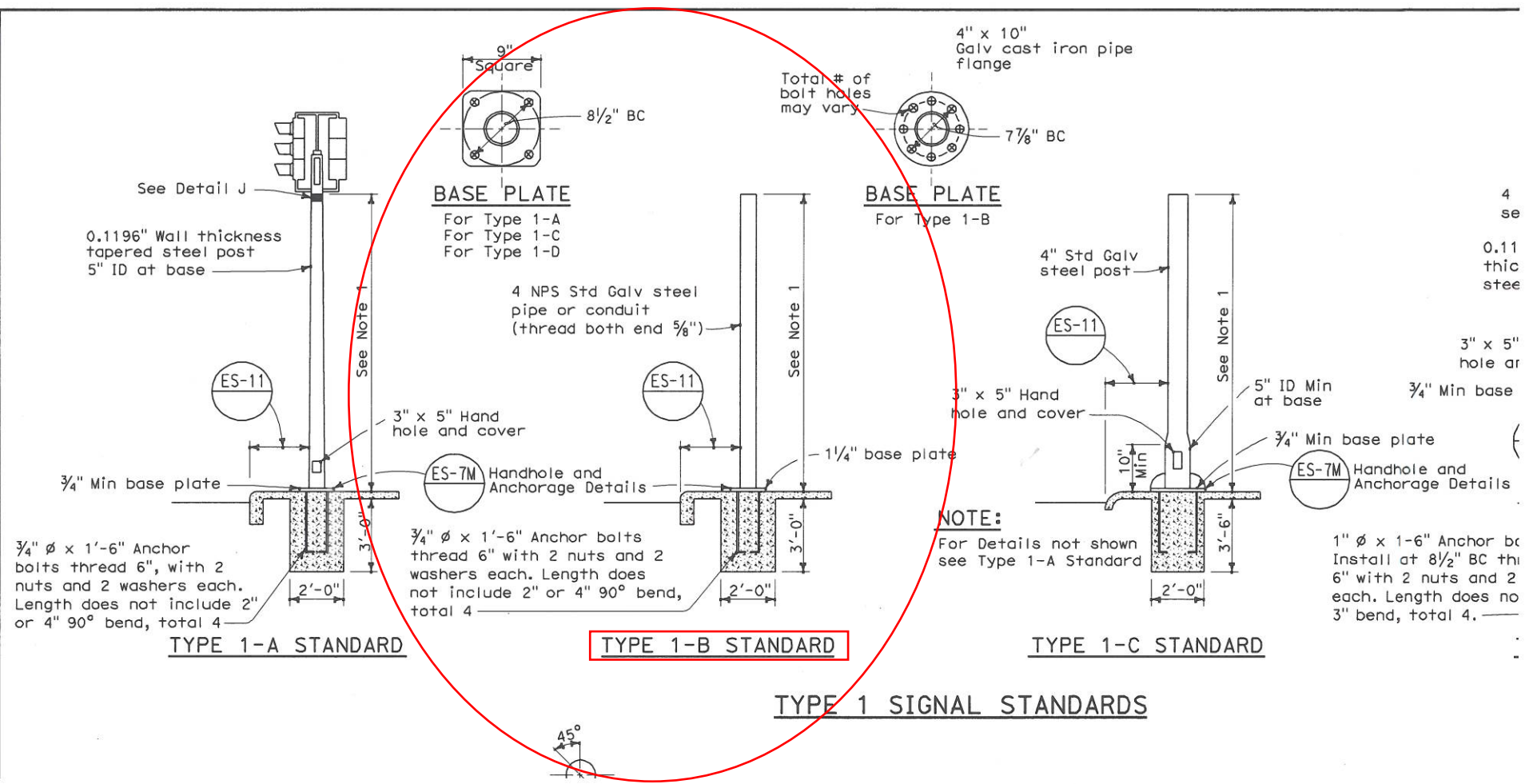
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Trustee Date Trustee Date

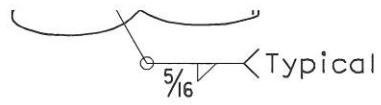
5. Names and addresses of adjacent property owners sharing a common boundary with the land upon which the contents of this application apply. If additional space is required, list names and addresses on back of the application form or an attached sheet.

See attached sheet  
Name Address Zip Code

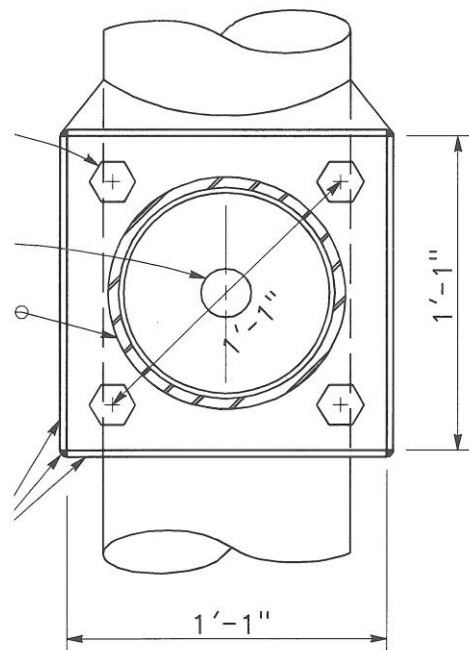
Reclamation District No. 784 has the following conditions to be included on the Central Valley Flood Protection Board Encroachment permit for the installation of traffic system improvements within the project levee near the intersection of Hammonton-Smartsville Road and Simpson Lane.

1. All improvements shall meet Central Valley Flood Protection Board Standards (i.e. Title 23);
2. A set of As-Built Mylar plans shall be provided to Reclamation District No. 784 upon completion of the work;
3. A copy of the final Central Valley Flood Protection Board Permit shall be provided to Reclamation District No. 784 prior to any work;
4. A copy of all soils testing reports (i.e. relative compaction, gradations, liquid limits, plasticity index, soil classification) shall be provided to Reclamation District No. 784;
5. Reclamation District No. 784 shall be notified five (5) working days prior to any construction activities;
6. Reclamation District No. 784 shall be included in all construction status meetings.



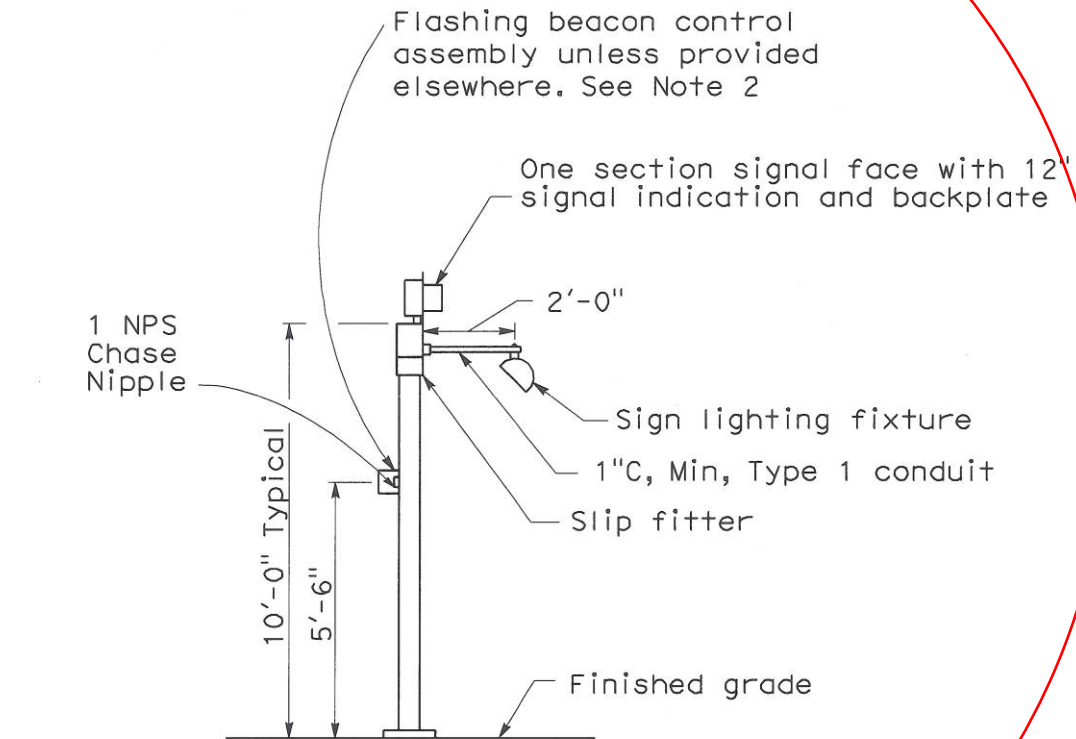


ELEVATION



VIEW A-A

ARM CONNECTION DETAILS



TYPE 1-A, 1-B, 1-C AND 1-D

ADVANCE FLASHING BEACON INSTALLATION

(See Project Plans for type of standard to be installed)