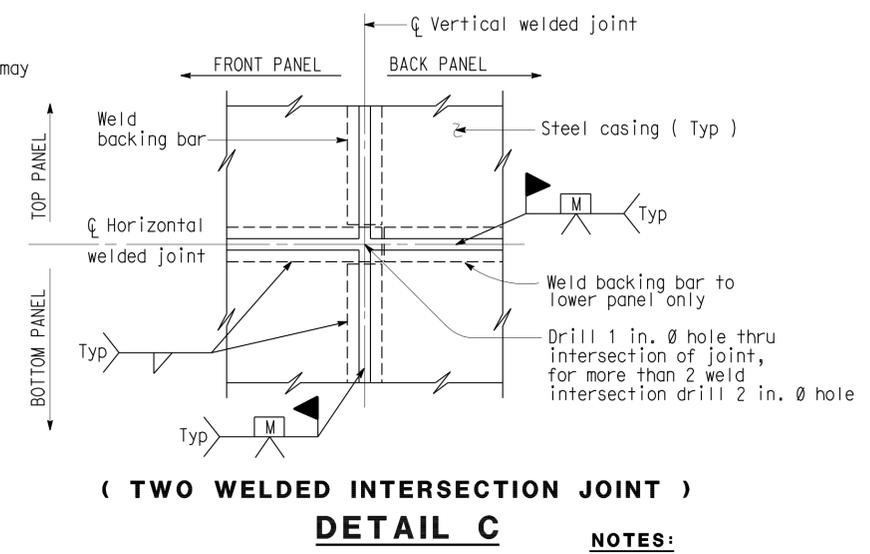
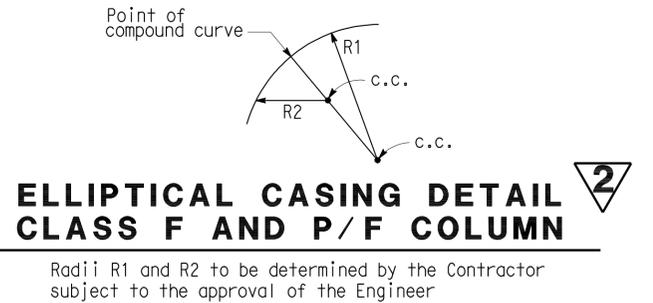
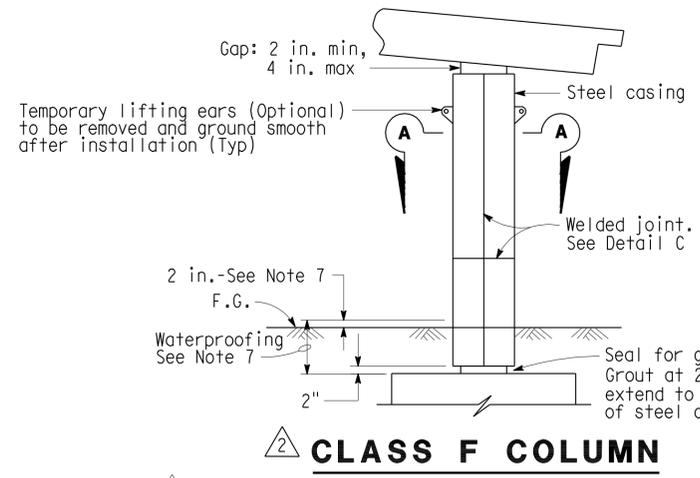


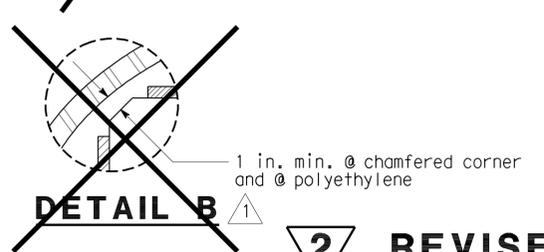
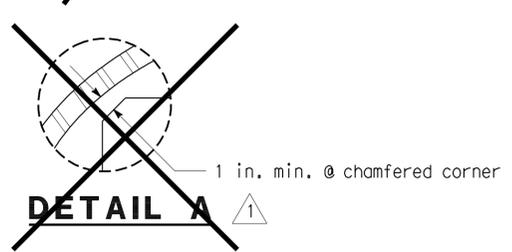
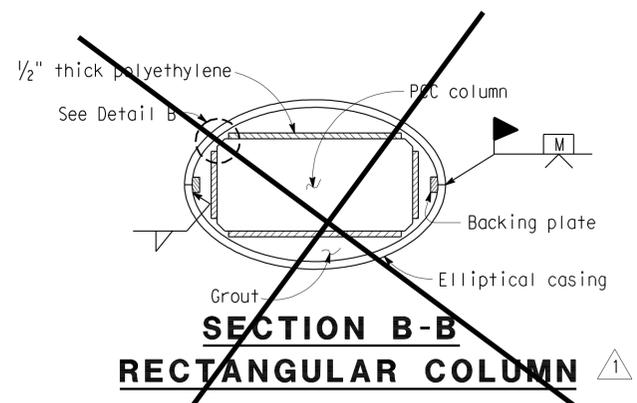
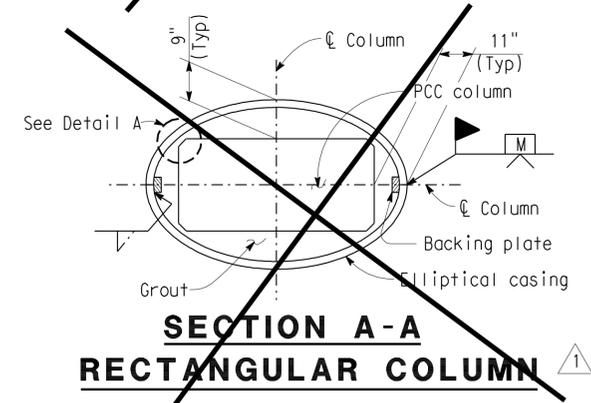
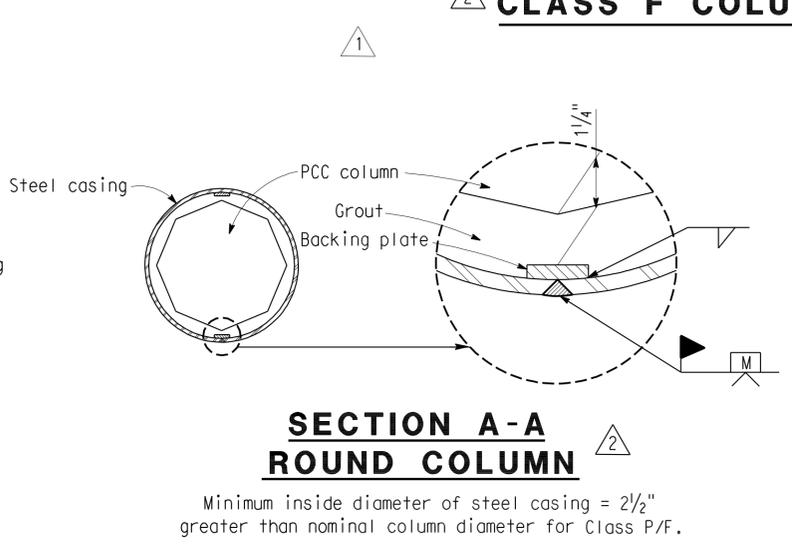
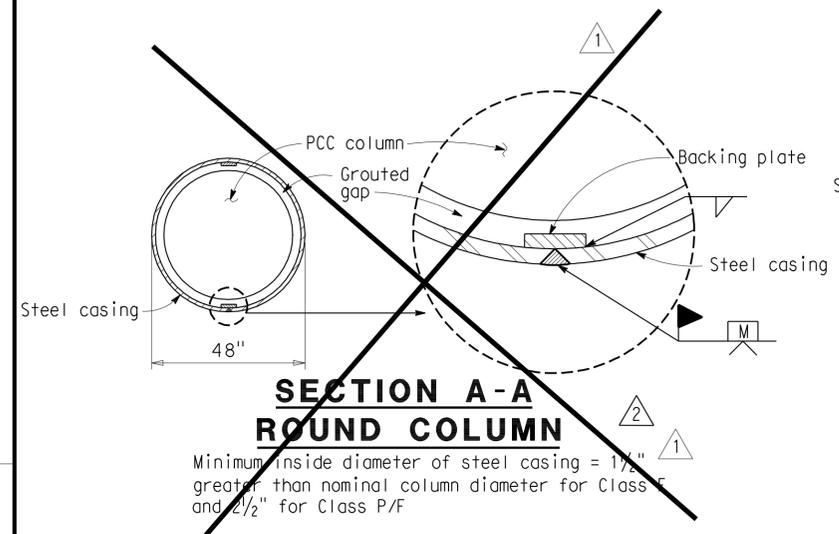
| DIST. | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|--------|-------|------------------------------|-----------|--------------|
| 12 | Ora | 57 | 16.2/18.6 | 791 | 960 |

| | |
|--|--|
| <i>M. Carbuccia</i> | |
| REGISTERED ENGINEER - CIVIL | |
| 12-14-09 | |
| 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. | |

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|----------------------------------|
| REGISTERED PROFESSIONAL ENGINEER |
| Miguel Carbuccia |
| No. 70531 |
| Exp. 12/31/10 |
| CIVIL |
| STATE OF CALIFORNIA |



- NOTES:**
- 1) For varying thickness steel casing inside surface to remain flush. Minimum clearance from PCC column to casing shall be maintained.
 - 2) Appropriate injection nozzles to be provided on casing, but removed and ground flush following completion of grouting operation.
 - 3) All voids between steel casing and polyethylene (Class P/F), and steel casing and PCC column (Class F) to be filled with grout.
 - 4) Location and number of vertical and horizontal welds to be determined by the Contractor, and subject to the approval of the Engineer. The location of casing welds are for illustration. No skip welds allowed.
 - 5) Circular steel casing to be 1/4" thick minimum for casings with a 4'-4" diameter or less; all other steel casings to be 3/8" thick unless noted differently on contract plans. Backing plates to be the same thickness as casing up to maximum 1/2" thick.
 - 6) Contractor shall remove 12 in. polyethylene strip behind backing plate if backing plate is closer than 2" from face of column.
 - 7) Waterproof limits for steel casings. Typical for Classe "F" and "P/F".
 - 8) For pipe extensions, opening shall be no more than 1/4" greater than the pipe extension diameter. For other openings, the opening diameter to be determined by the Engineer.



2 REVISED PER ADDENDUM No. 2 DATED JUNE 17, 2010 NO SCALE

| | | | | | | | | |
|--|---------------|---------------|-------------------|--|--|---|---|--|
| STANDARD DRAWING | | | | 1 Deleted Detail 2 Revised Section A-A | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES | BRIDGE NO. | SOUTH PLACENTIA OH (WIDEN) STEEL COLUMN CASINGS |
| RELEASE DATE | DESIGN BY | CHECKED BY | RELEASED BY | | | | 55-0450 | |
| 11-16-06 | BRIAN MARONEY | R.J. ZELINSKI | Michael D. Keener | | | | | |
| FILE NO. | DETAILS BY | CHECKED BY | OFFICE CHIEF | | | | | |
| xs7-010e | R. YEE | PAT HIPLEY | | | | | | |
| | SUBMITTED BY | DRAWING DATE | | | | | | |
| | R.J. ZELINSKI | 8/93 | | | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | CU 12 EA OF 0311 | BRIDGE NO. 16.7 | REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET 14 OF 23 |