

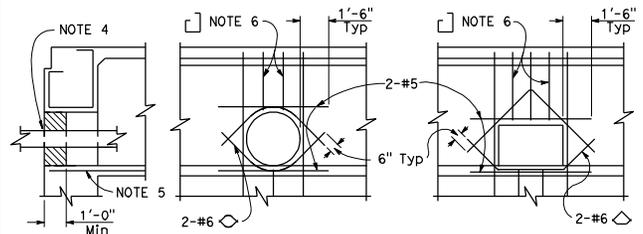
ABUTMENT DIAPHRAGMS

INTERMEDIATE DIAPHRAGMS AND HINGES

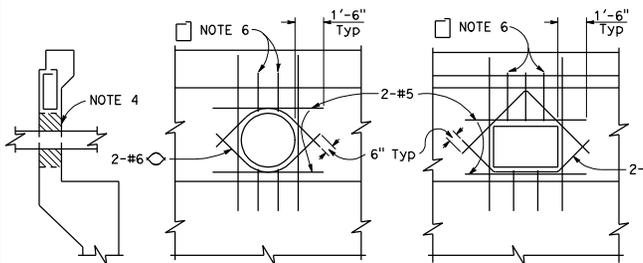
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS

REGISTERED CIVIL ENGINEER
 May 20, 2011
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

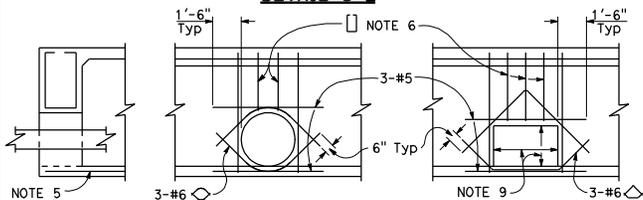
BENT CAPS



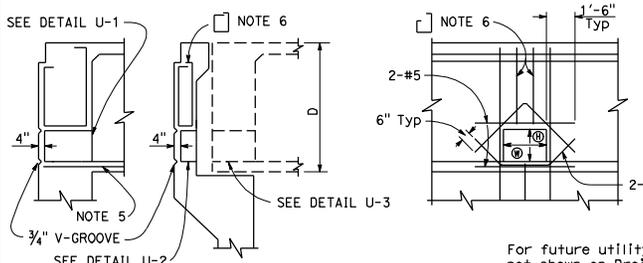
DETAIL U-1



DETAIL U-2

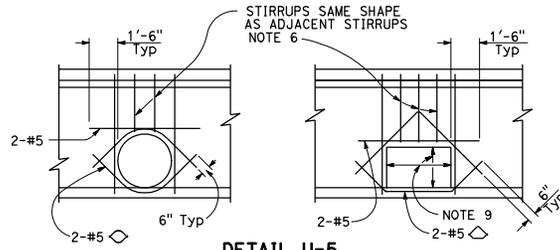


DETAIL U-3



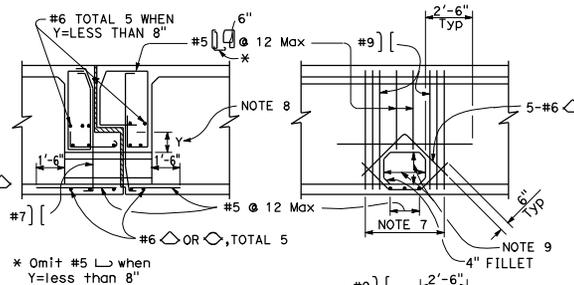
DETAIL U-4

(FOR FUTURE UTILITY OPENING)



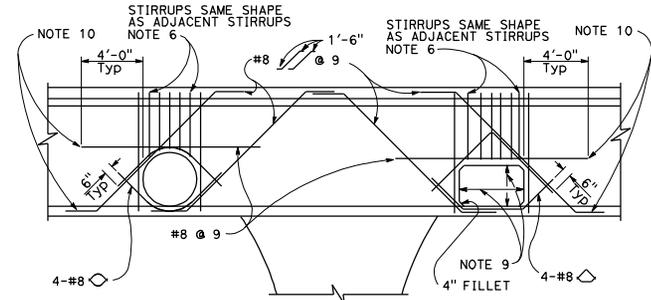
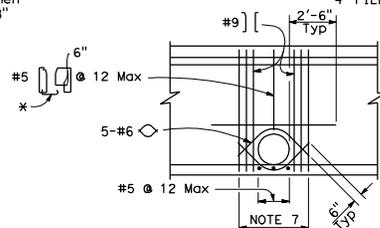
DETAIL U-5

AT INTERMEDIATE DIAPHRAGM



DETAIL U-6

AT HINGE

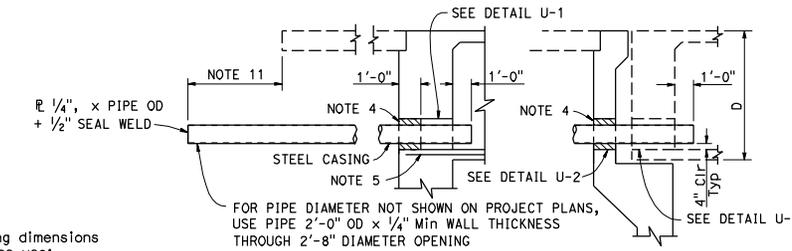


DETAIL U-7

NEAR OR BETWEEN COLUMNS

NOTES:

1. The exact location, elevation, size, and direction of openings shall be in accordance with the Project Plans and as directed by the Engineer. Girders not shown. See Project Plans.
2. All reinforcement detailed to be placed in addition to reinforcement shown on Project Plans.
3. Seal utilities at abutments with concrete or mortar, after tightly wrapping utility with 2 layers of 15 LBS building paper. If structure is prestressed, seal to be placed after stressing is completed.
4. Main reinforcement to clear opening.
5. Reinforcement to be same bar size and 2/3 the spacing of adjacent reinforcement shown on Project Plans.
6. Replace each set of 2-#9 bars cut off by opening. Place 1/2 on each side of opening.
7. When "y" is less than 8", extend top of opening to bottom of bearing seat elevation.
8. For future utility opening dimensions, see Project Plans and Detail U-4.
9. When there is insufficient space to place reinforcement as shown, hook reinforcement into exterior girder.
10. Unless otherwise shown on Project Plans, casing shall extend to the greater of 5'-0" beyond the end of the approach slab, 5'-0" beyond the end of the adjacent wingwall, or 20'-0" beyond the back of the abutment.



DETAIL U-8

(FOR FUTURE UTILITY PROVISIONS UNDER APPROACH SLAB)

For future utility opening dimensions not shown on Project Plans use:

⊕ = 1/3 D or 1'-6" minimum, whichever is greater.

⊙ = 1/3 D or 2'-0" minimum, whichever is greater.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**UTILITY OPENING
BOX GIRDER**

NO SCALE

B7-10