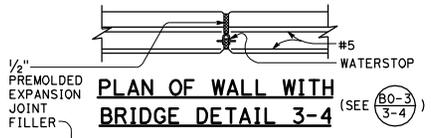


TABLE A

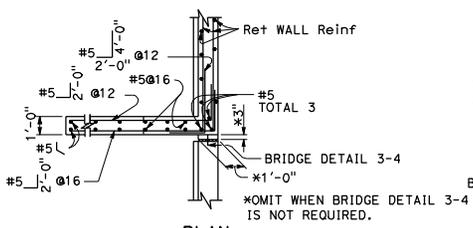
| H | OFFSET |
|---------|--------|
| 4'-12' | H/200 |
| 14'-16' | H/160 |
| 18'-20' | H/140 |
| 22'-24' | H/130 |
| 26'-36' | 2 1/2" |

APPROXIMATE WALL OFFSET VALUES

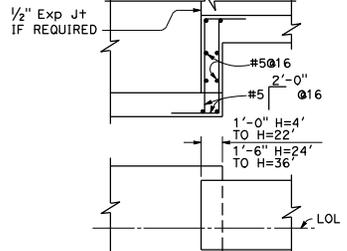
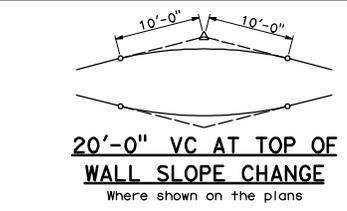
Values for offsetting forms to be determined by the Engineer.



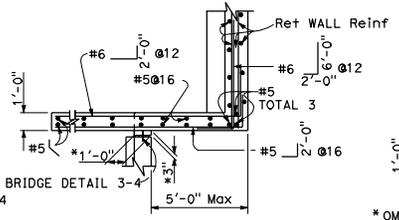
PLAN OF WALL WITH EXPANSION JOINT ONLY



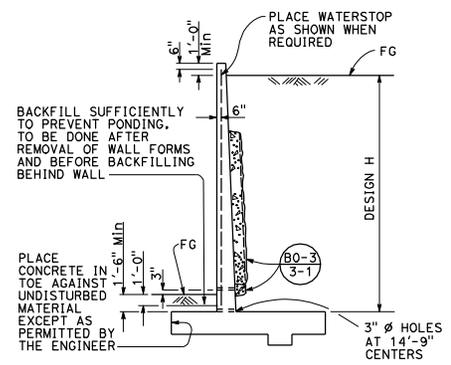
PLAN
(For return wall Type "A")



FOOTING STEP

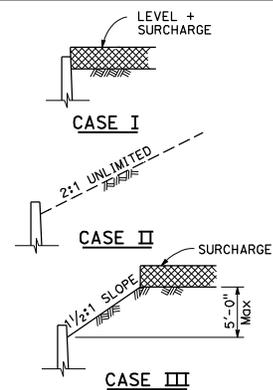


PLAN
(For return wall Type "B")

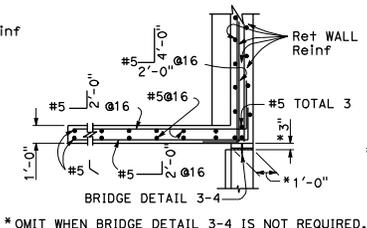


DESIGN AND DRAINAGE

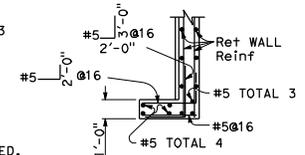
- Case I Level + surcharge
- Case II 2:1 Unlimited slope
- Case III 1 1/2:1 Limited slope (5'-0" Max height) + surcharge



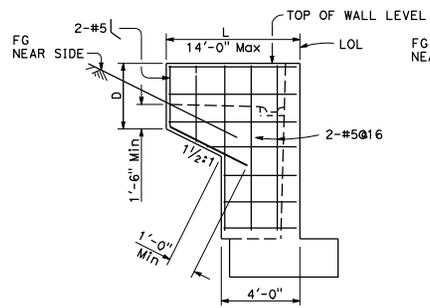
DETAIL OF DESIGN LOADING CASES



PLAN
(For return wall Type "C")

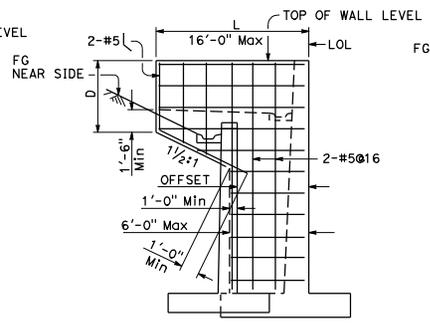


PLAN
(For return wall Type "D")



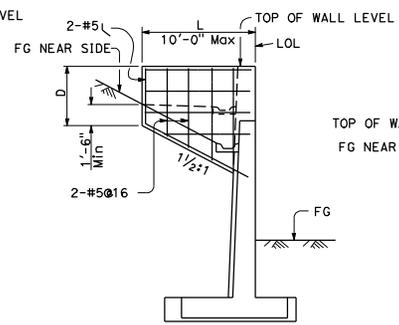
ELEVATION RETURN WALL TYPE "A"

Use where H=8' or less



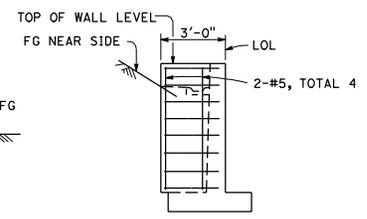
ELEVATION RETURN WALL TYPE "B"

Use where H=10' or more on offset walls



ELEVATION RETURN WALL TYPE "C"

Use where H=10' or more on straight walls



ELEVATION RETURN WALL TYPE "D"

Use where H=6' or less

DESIGN CONDITIONS:

Design "H" may be exceeded by 6" before going to the next size. Special footing design is required where foundation material is incapable of supporting bearing stress listed in table

Return wall not required unless shown elsewhere

DESIGN NOTES:

- DESIGN: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments
- LIVE LOAD: Surcharge on level ground surface
- SOIL: $\phi = 34^\circ$
 $\gamma = 120$ pcf
- REINFORCED CONCRETE: $f_y = 60,000$ psi
 $f_c' = 3,600$ psi
 $n = 8$

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAILS No. 1

NO SCALE

| | | | | | |
|--|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| <p>May 20, 2011 PLANS APPROVAL DATE</p> <p>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.</p> | | | | | |

REGISTERED PROFESSIONAL ENGINEER
Gary Wong
No. C88298
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA