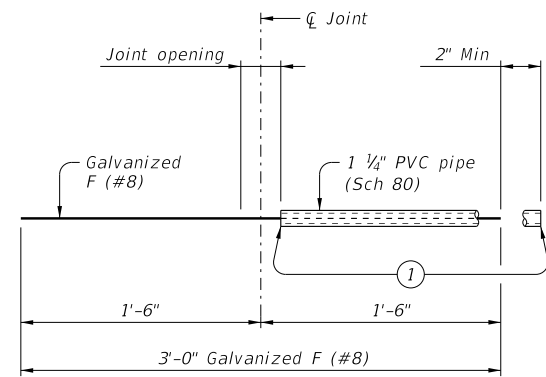
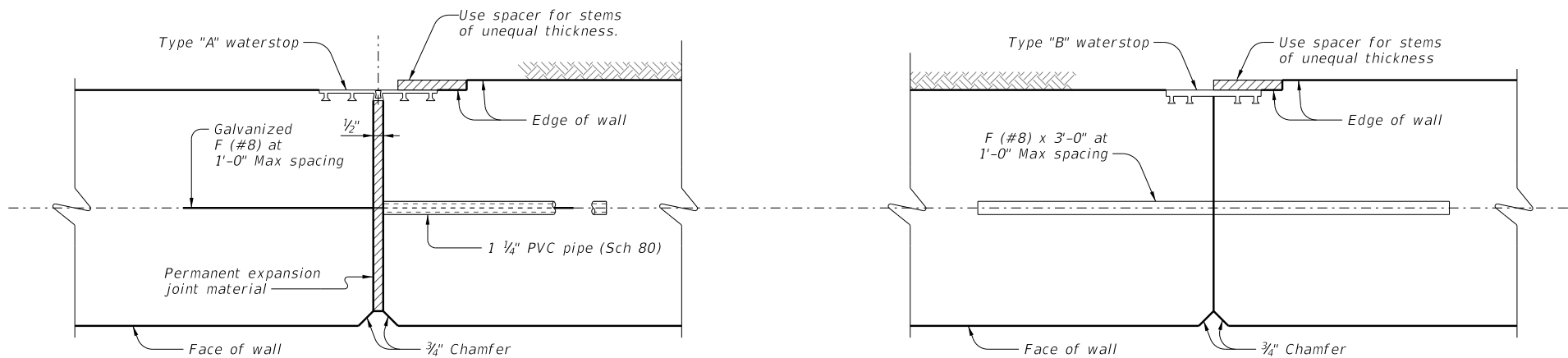


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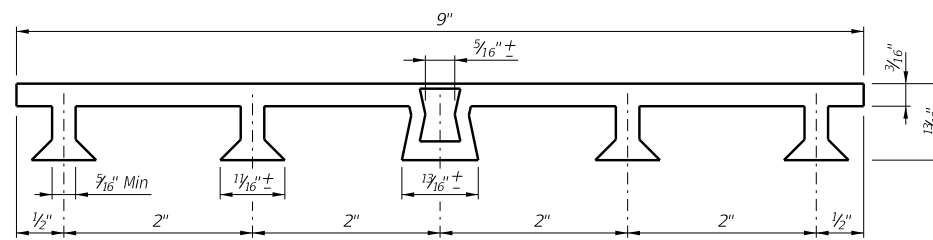


BAR F (#8) ASSEMBLY DETAIL



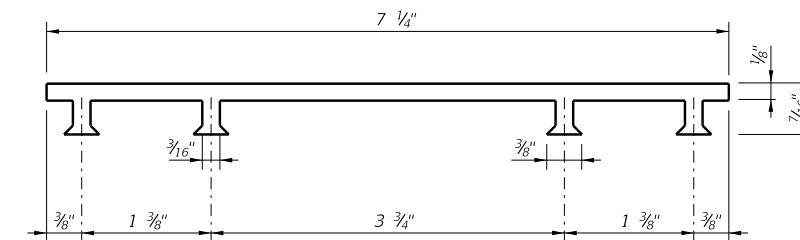
EXPANSION JOINT

CONSTRUCTION JOINT

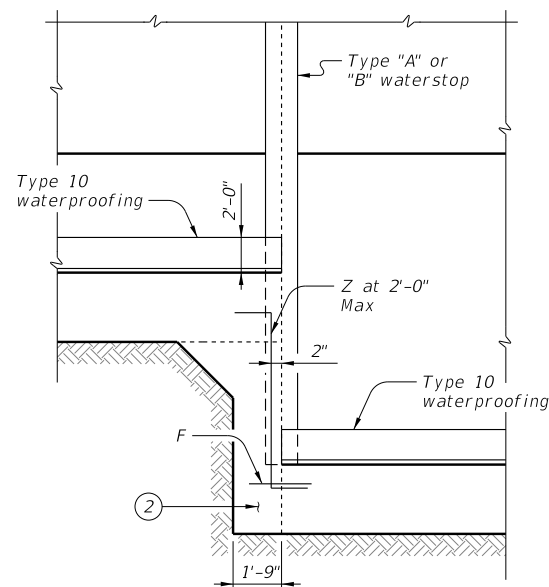


PVC WATERSTOP TYPE "A"

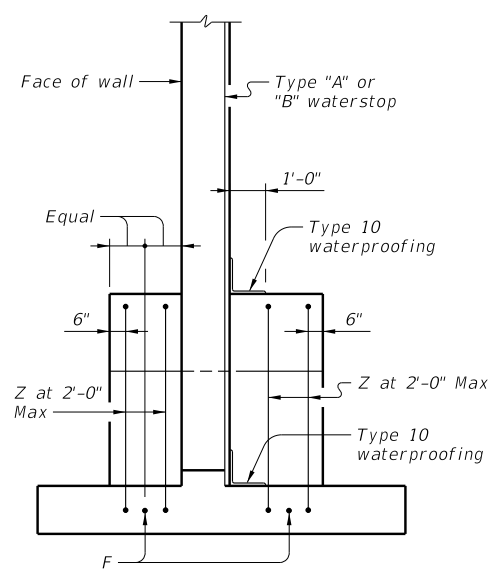
Note: Dimensions and shapes may vary slightly depending on manufacturer.



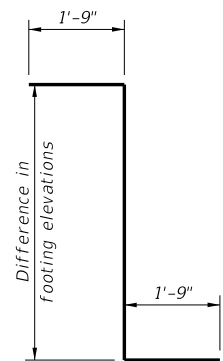
PVC WATERSTOP TYPE "B"



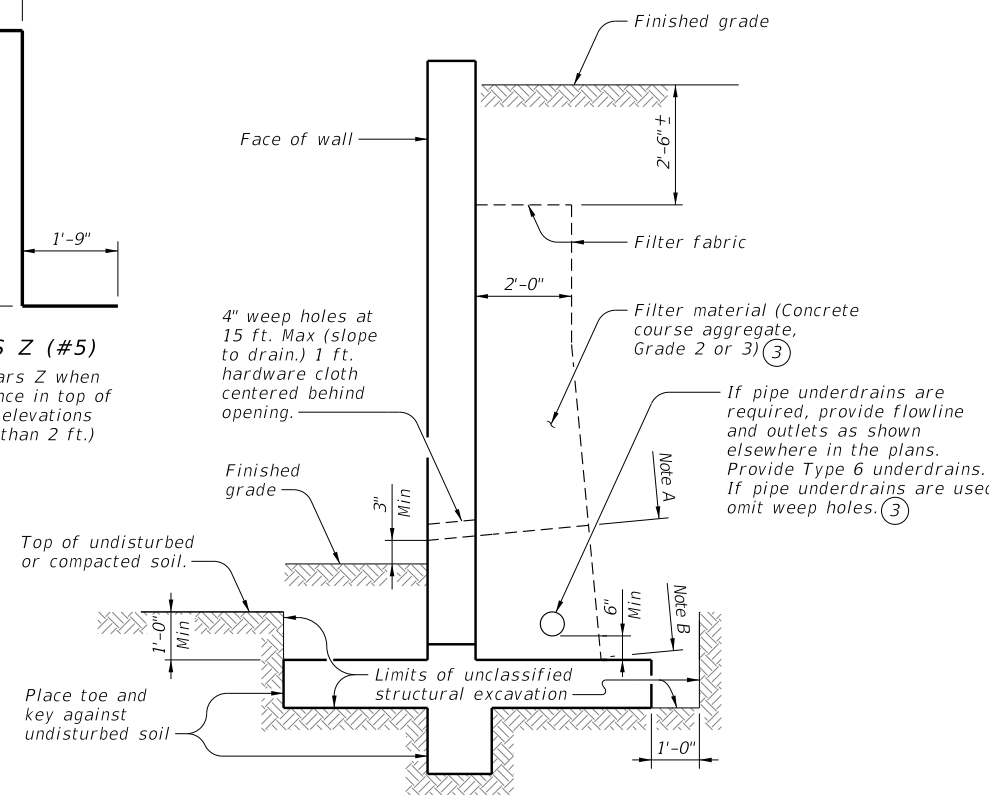
PARTIAL ELEVATION



PARTIAL SECTION



BARS Z (#5)
(Omit Bars Z when difference in top of footing elevations is less than 2 ft.)



DRAINAGE DETAILS AND EXCAVATION DIAGRAM

Note A: Stop coarse aggregate at this level when weep holes are used.

Note B: Use coarse aggregate to here with filter material above when underdrains are used.

- ① Tape ends of 1 1/4" PVC Schedule 80 to prevent concrete or mortar from seeping in.
- ② Class C unreinforced concrete when difference in top of footing elevations is less than 2 feet. Omit when Dowel Bars F can be placed between adjacent footings with 4-inch cover top and bottom. Footing elevation difference not to exceed 4 feet.
- ③ Underdrain pipe and filter material to be in accordance with Item 556, "Pipe Underdrains."

MATERIAL NOTES:

Provide Class C concrete ($f'c=3,600$ psi.)
Provide Grade 60 reinforcing steel.

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications.

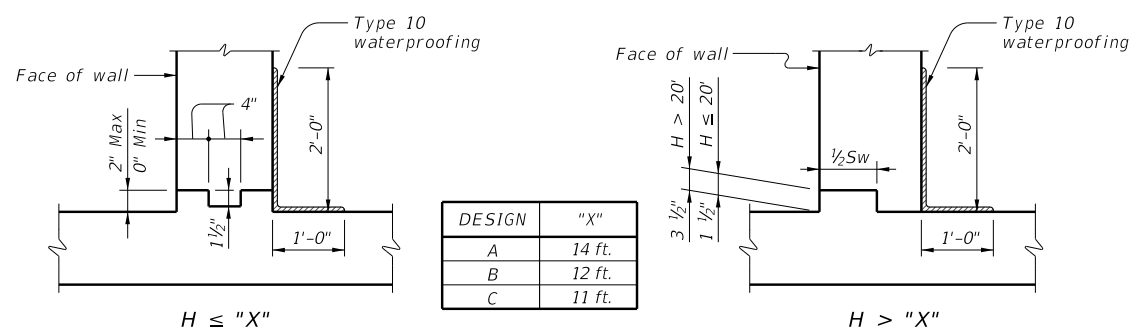
Walls are designed assuming unit weight of soil = 120 pcf and a friction angle = 30 degrees for foundation and retained soil.

The undisturbed or compacted soil depth in front of walls must not measure less than $K_d + Ft + 1$ foot as measured upwards from bottom of key.

Retaining walls are detailed to be placed on grades up to 10% with level footing, with no changes in reinforcing steel. Steeper grades can be accommodated by shortening Bars A and Bars B and increasing the length of legs of Bars U by the same amount. No change in quantities will be required.

Retaining walls may be placed on horizontal curves by adjusting lengths of Bars T and Bars H in the footing. Minor revisions to concrete quantities may be required as a result.

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions shown are out-to-out of bar.



$H \leq "X"$

$H > "X"$

DESIGN	"X"
A	14 ft.
B	12 ft.
C	11 ft.

JOINT AND WATERSTOP DETAILS

Bridge Division Standard

SPREAD FOOTING RETAINING WALL MISCELLANEOUS DETAILS

RW(SF)

FILE: RW-SF-22.dgn	DN: TAR	CK: RLE	DW: JER	CK: TAR
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REVISIONS				
DIST		COUNTY		SHEET NO.

DATE: FILE: