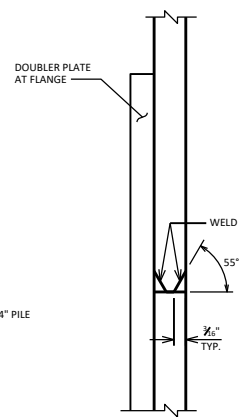


**STEEL 'HP' SHAPES**



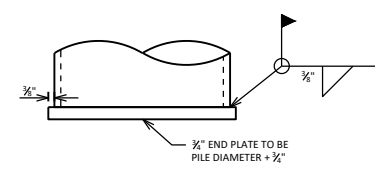
**HP WELD DETAIL**  
FLANGE SHOWN, WEB SIMILAR

**DESIGNER NOTES**

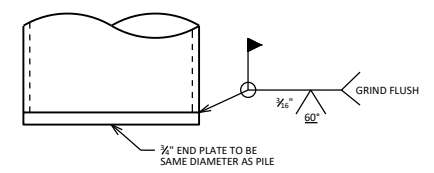
FULL DESIGN LOADING CAN BE USED IF PREBORED HOLE IS LARGE ENOUGH TO AVOID PILE HANGUPS AND ALLOW FILLING WITH SAND.  
SEE WISDOT POLICY ITEM IN BRIDGE MANUAL 11.3.1.12.3 FOR GUIDANCE ON "HP" PILES.  
SEE BRIDGE MANUAL SECTION 11.3.1.17.7 FOR PILE RESISTANCE VALUES.  
IF LESS THAN THE MAXIMUM AXIAL RESISTANCE IS REQUIRED BY DESIGN, STATE ONLY THE REQUIRED CORRESPONDING DRIVING RESISTANCE ON THE PLANS. CONSULT WITH THE GEOTECHNICAL ENGINEER REGARDING POSSIBLE ESTIMATED PILE LENGTH ADJUSTMENT.

**NOTES**

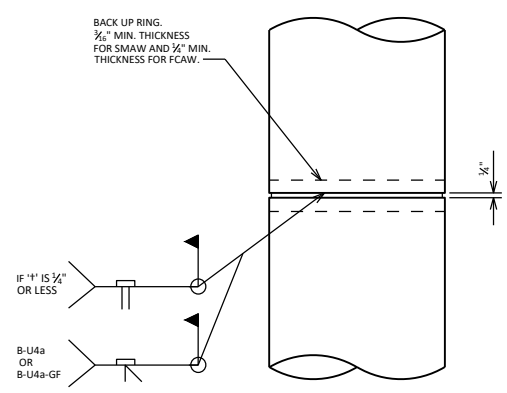
CAST-IN-PLACE PILE SHELL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATION.  
IF APPLICABLE, PLACE THE FOLLOWING NOTE ON THE PLANS:  
PILES PLACED IN PREBORED HOLES CORED INTO ROCK DO NOT REQUIRE DRIVING.



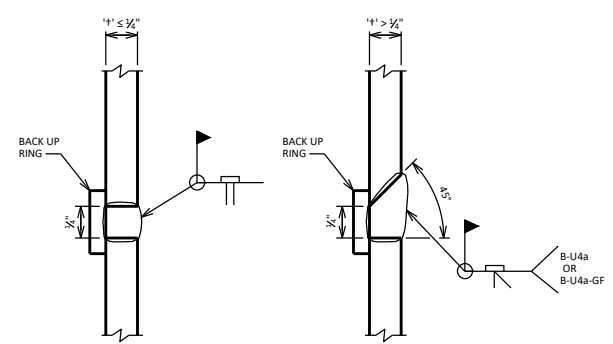
**PILE RESISTANCE**



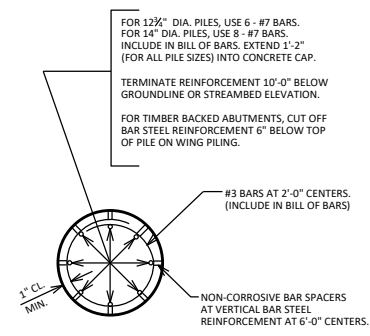
**END PLATE DETAIL FOR CIP PILING  
IN ARTESIAN CONDITIONS**  
(ONLY USE FOR ARTESIAN CONDITIONS)



**CAST-IN-PLACE  
'PILE PIPE'**



**CIP PILE WELD DETAIL**



**SECTION THRU CONCRETE  
CAST-IN-PLACE PILING**  
USED WHEN PILES ARE EXPOSED  
(OPEN PILE BENTS OR TIMBER BACKED ABUTMENTS)

**TABLE**

PILE DIA.	DIM "A"	LENGTH
12 3/4"	9 1/2"	3'-7"
14"	11"	3'-11"

(#3 BAR WT. = 0.38 LB/FT)

**PILE DETAILS**

**BUREAU OF STRUCTURES**

APPROVED: *Laura Shadewald* DATE: 7-21