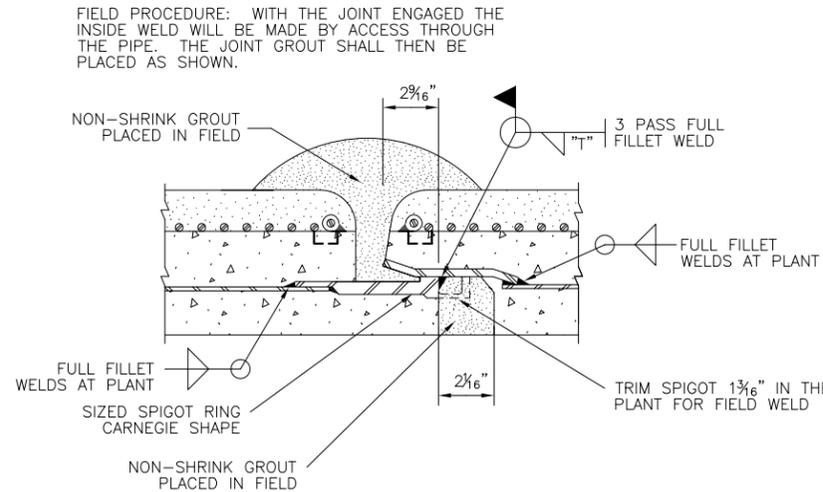
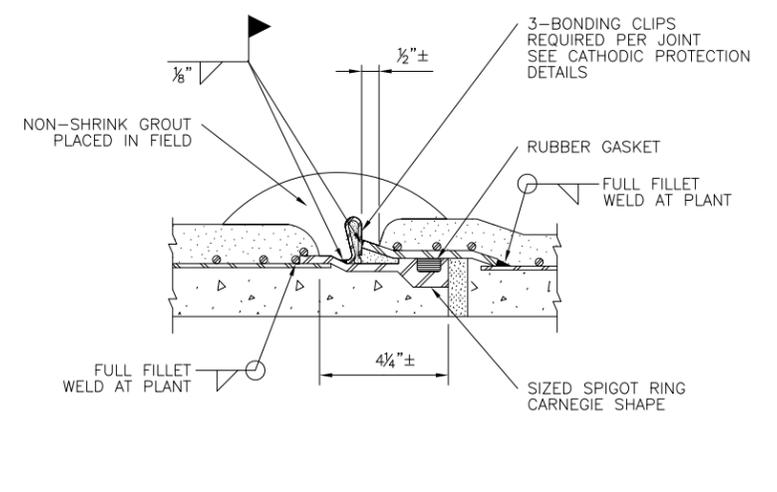


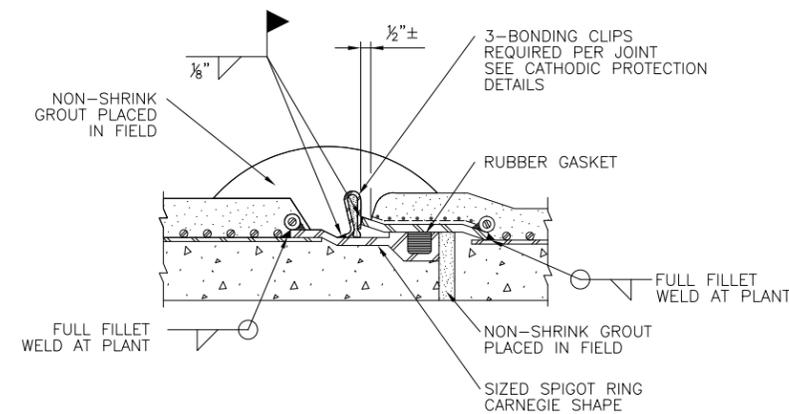
1 JOINT - EMBEDDED CYLINDER PIPE



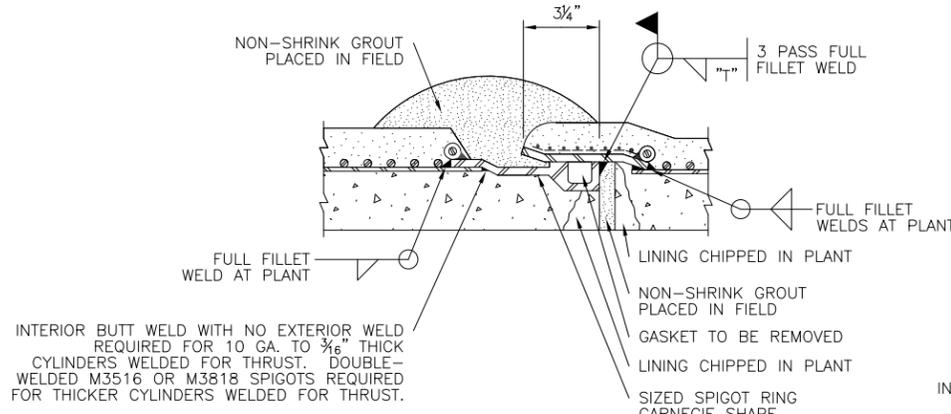
2 WELDED JOINT WITH TRIMMED SPIGOT - EMBEDDED CYLINDER PIPE



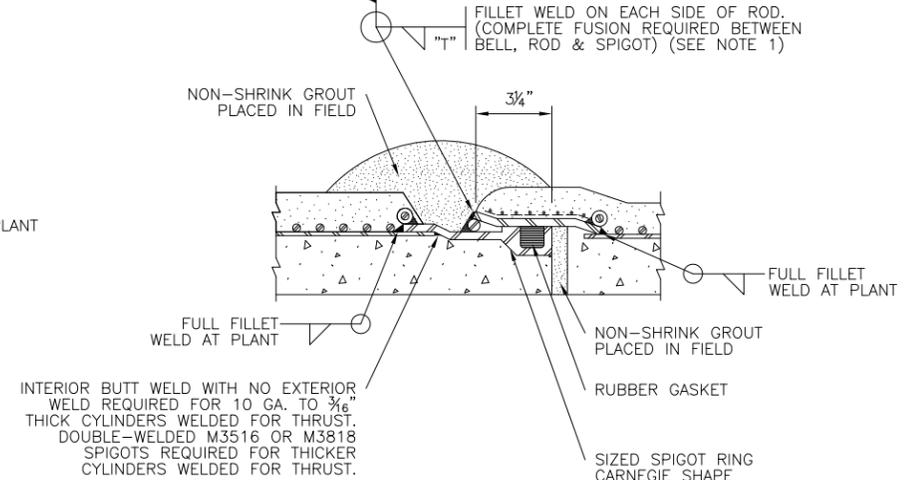
3 JOINT - BAR WRAPPED CYLINDER PIPE



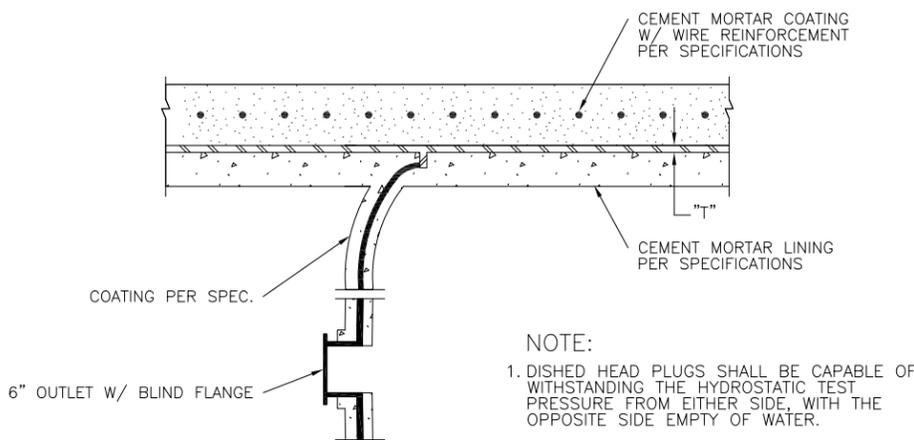
4 JOINT - LINED CYLINDER PIPE



5 WELDED JOINT - LINED CYLINDER PIPE  
(INTERIOR WELD FOR WATERLINES 36-INCHES DIAMETER AND LARGER)

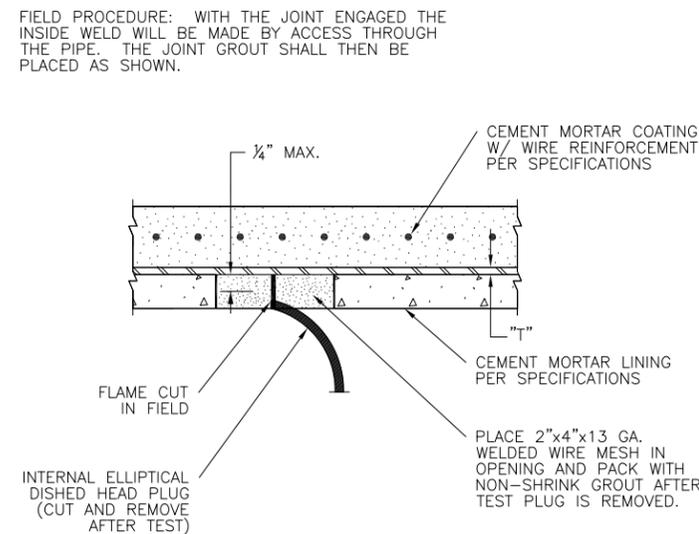


6 WELDED JOINT - LINED CYLINDER PIPE  
(EXTERIOR WELD FOR WATER LINES LESS THAN 36-INCHES IN DIAMETER)



NOTE:  
1. DISHED HEAD PLUGS SHALL BE CAPABLE OF WITHSTANDING THE HYDROSTATIC TEST PRESSURE FROM EITHER SIDE, WITH THE OPPOSITE SIDE EMPTY OF WATER.

7 INTERNAL ELLIPTICAL DISHED HEAD PLUG  
CEMENT MORTAR LINING AND CEMENT MORTAR COATED STEEL PIPE SPECIAL



FIELD PROCEDURE: WITH THE JOINT ENGAGED THE INSIDE WELD WILL BE MADE BY ACCESS THROUGH THE PIPE. THE JOINT GROUT SHALL THEN BE PLACED AS SHOWN.

8 INTERNAL ELLIPTICAL DISHED HEAD PLUG REMOVAL  
CEMENT MORTAR LINING AND CEMENT MORTAR COATED STEEL PIPE SPECIAL

FIELD PROCEDURE: PLACE STEEL ROD SNUGLY INTO THE RECESS BETWEEN THE BELL AND SPIGOT. THE WELD MUST BE CONTINUOUS.

NOTES:

1. T = STEEL CYLINDER THICKNESS AND SIZE OF FILLET ATTACHMENT WELD.
2. FLEXIBLE MASTIC SEALER SHALL BE APPLIED TO THE EXTERIOR OF THE JOINT PRIOR TO JOINT ENGAGEMENT WHEN PIPE IS INSTALLED IN A TUNNEL OR ENCASEMENT PIPE.

<b>CITY OF HOUSTON</b>	
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
STANDARD LDWL PIPE DETAILS	
SHEET 1 OF 2 (NOT TO SCALE)	
APPROVED BY:	APPROVED BY:
CITY ENGINEER	DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: NOV-10-2016	DWG NO: