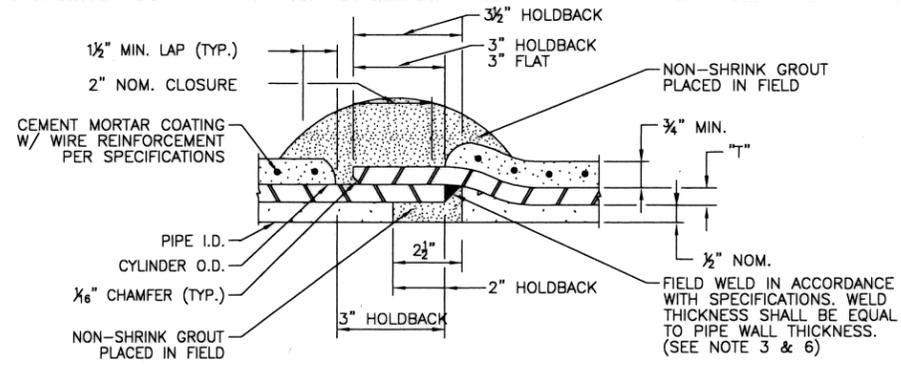
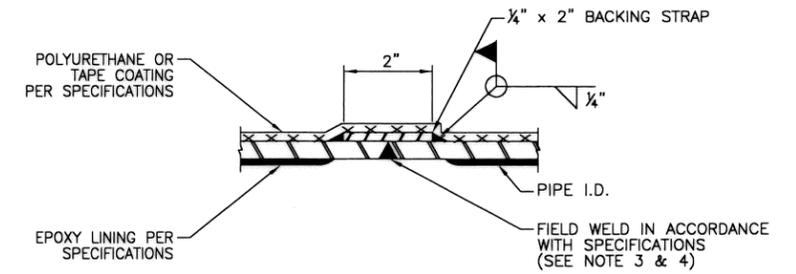


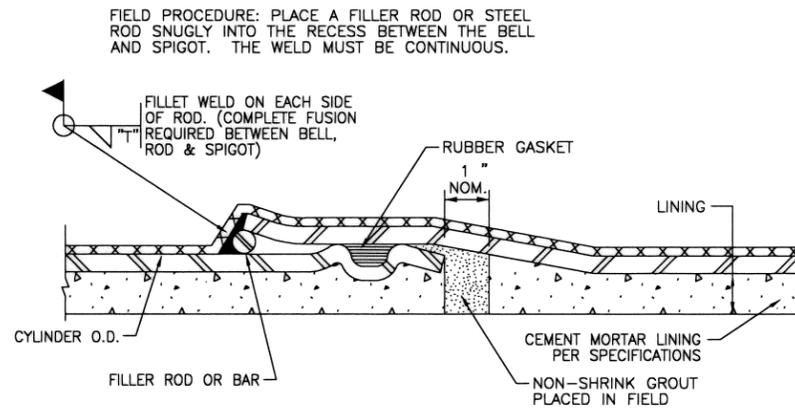
1 LAP-WELD FIELD JOINT - STEEL PIPE JOINT
FLEXIBLE COATING AND LINING



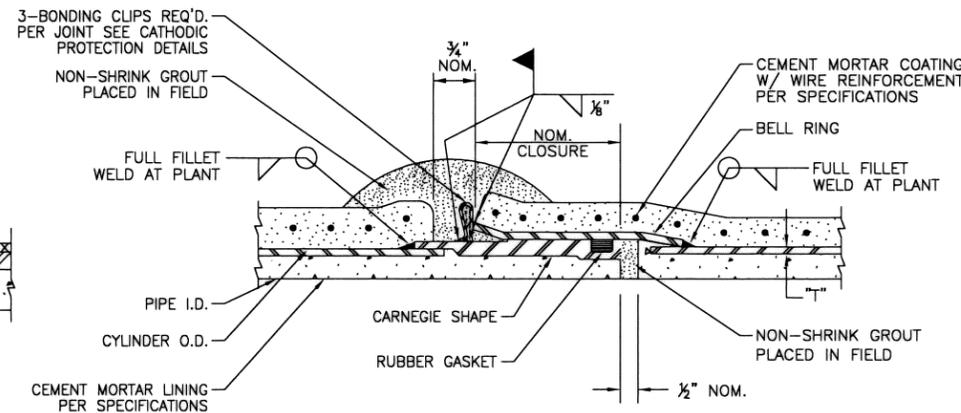
2 LAP-WELD FIELD JOINT - STEEL PIPE JOINT
CEMENT MORTAR LINED & CEMENT MORTAR COATED



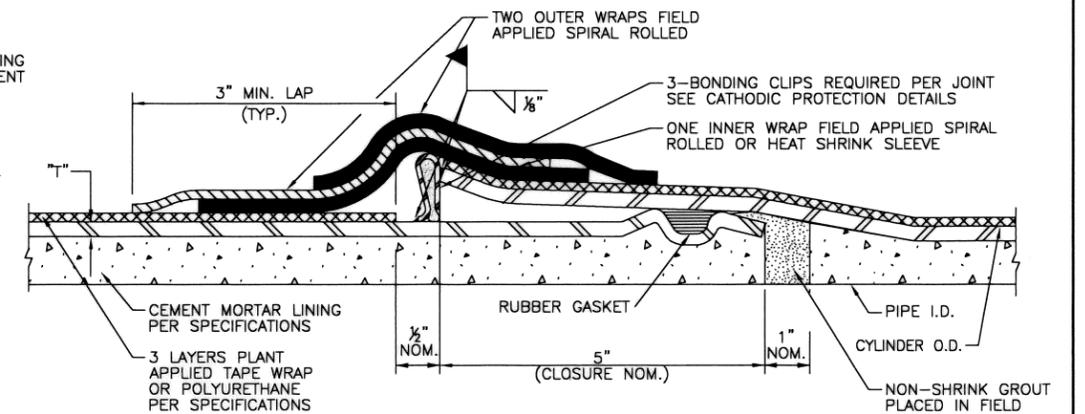
3 BUTT WELD FIELD JOINT - STEEL PIPE JOINT
FLEXIBLE COATING AND LINING



4 FIELD WELDED O-RING - STEEL PIPE JOINT
FLEXIBLE COATING AND CEMENT MORTAR LINING
(FOR ADJUSTMENTS ONLY AS APPROVED BY ENGINEER AND PIPE MANUFACTURER.)



5 CARNEGIE JOINT - STEEL PIPE JOINT
CEMENT MORTAR LINED & CEMENT MORTAR COATED



6 O-RING - STEEL PIPE JOINT
CEMENT MORTAR LINED & FLEXIBLE COATING

NOTES:

1. T = STEEL CYLINDER THICKNESS AND SIZE OF FILLET ATTACHMENT WELD.
2. ALL REFERENCES TO PIPE DIAMETER FOR THIS PROJECT SHALL SIGNIFY SIZE MEASURED TO INSIDE DIAMETER OF THE LINED PIPE.
3. DETAILS 1 AND 3 SHOW EPOXY LINING. CEMENT MORTAR LINING TO BE SIMILAR TO DETAILS ON THIS SHEET SHOWING CEMENT MORTAR LINED PIPE, AS APPROVED BY PROGRAM MANAGER.
4. SEE SPECIFICATIONS FOR REPAIR OF EPOXY LINING.
5. WHEN CEMENT MORTAR COATING IS USED FOR STEEL PIPE, 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.
6. OUTSIDE WELD MAY BE SUBSTITUTED FOR INSIDE WELD. INTERIOR WELDING IS NOT RECOMMENDED FOR 30" DIAMETER PIPE AND SMALLER.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STANDARD LDWL
STEEL PIPE DETAILS
(SHEET 1 OF 2)

(NOT TO SCALE)

APPROVED BY:
[Signature]
ACTING CITY ENGINEER

APPROVED BY:
[Signature]
DIRECTOR OF
HOUSTON PUBLIC WORKS

EFF DATE: MAR-20-2018

DWG NO: 02518-01