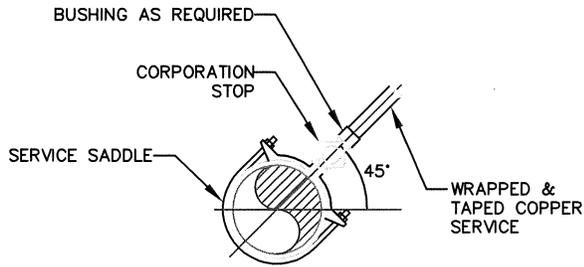
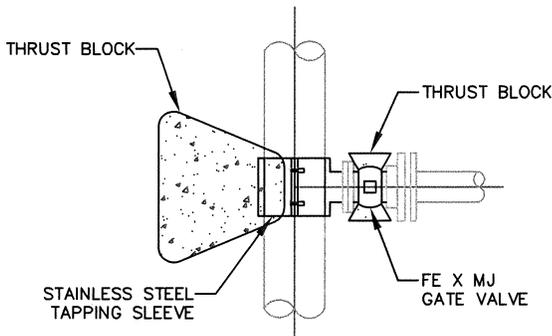


**ASPHALT CONCRETE,
CAST IRON, AND DUCTILE IRON MAINS**



1" - 2" CONNECTIONS

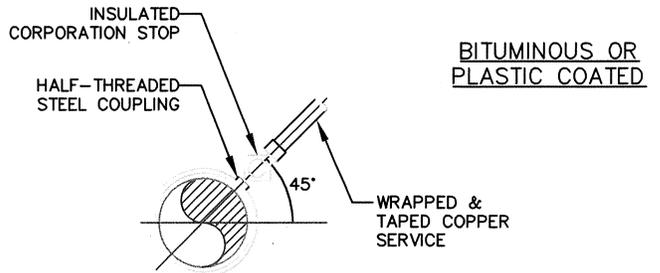
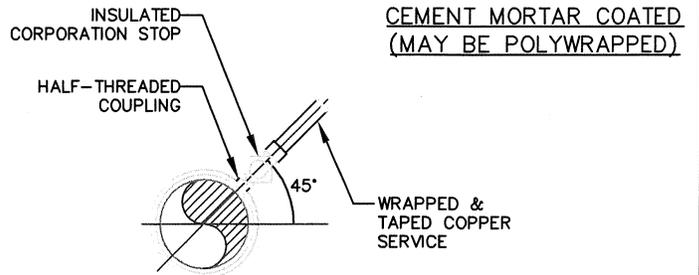


4" - 12" CONNECTIONS

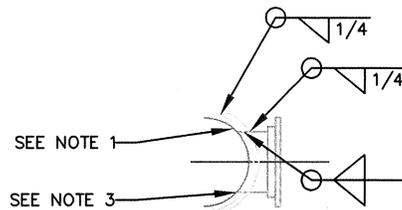
NOTES:

1. REPAIR OR REPLACE MORTAR IN KIND AS REQUIRED.
2. WHEN MAIN IS POLYWRAPPED, REPAIR, AND EXTEND POLYWRAP TO COVER 6 INCHES OF SERVICE LINE.
3. MACHINE BORE AFTER WELDING (CUTTER O.D. SHALL BE 1/2 INCH LESS THAN NOMINAL SIZE).
4. STEEL PIPE FLANGE SHALL BE PERPENDICULAR TO SURFACE.
5. DIELECTRIC INSULATING FLANGE KIT SHALL BE INSTALLED BETWEEN VALVE AND TAPPING SLEEVE.
6. DIELECTRIC INSULATING CORPORATION STOP SHALL BE USED ON ALL TAPS 1-2 INCHES.
7. WELDS SHALL HAVE A MINIMUM OF 2 PASSES.
8. DISTANCE BETWEEN SERVICE MAIN CONNECTIONS SHALL BE MINIMUM 18 INCHES
9. ON BAR WRAPPED CCP, ALL REINFORCING RE-BARS AFFECTED BY THE TAP SHALL BE RECONNECTED TO THE TAPPING SLEEVE BY WELDING TO RESTORE STRUCTURAL INTEGRITY OF PIPE. PIPE MORTAR AFFECTED BY THE TAP SHALL BE RESTORED.

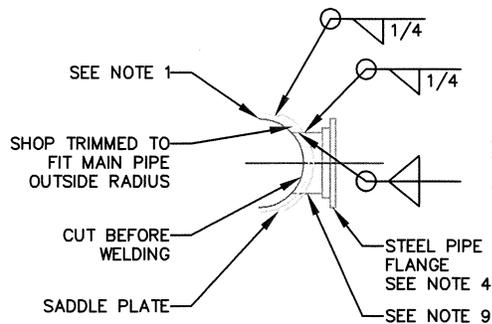
WELDED STEEL MAINS



1" - 2" CONNECTIONS



SADDLE NOZZLE
INSTALLATION
UNDER PRESSURE
(WET TAP)



SADDLE NOZZLE

4" - 12" CONNECTIONS

MAIN CONNECTION DETAILS



[Signature]
APPROVED BY:

DATE : DEC 2014
REVISED : -

DWG. **31B**