

## GENERAL NOTES

1. IN INSTANCES WHERE FLOW LINES ARE NOT INDICATED ON THE DRAWING, MAIN SHALL BE CONSTRUCTED WITH A MINIMUM OF 4'-0" COVER, OR AS DIRECTED BY THE CITY ENGINEER. ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST REVISION OF THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS.
2. ALL EXISTING WATER MAINS AND APPURTANCES ABANDONED BY ANY PROJECT ARE TO REMAIN THE PROPERTY OF THE CITY OF EDMOND, AND SHALL BE SALVAGED FOR THE CITY WATER DEPARTMENT.
3. SET END OF MAIN STUBS IN CUL-DE-SACS AT A POINT 5'-0" OFF FRONT PROPERTY LINE. THIS POINT BEING IN LINE WITH SIDE PROPERTY LINE.
4. FIRE HYDRANTS SHALL BE LOCATED 5' TO 9' FROM BACK OF CURB. SIDEWALK LOCATIONS TO BE PRE-DETERMINED SO HYDRANTS WILL NOT BE LOCATED IN SIDEWALK. ON STREETS WITHOUT CURB FIRE HYDRANTS SHALL BE LOCATED 3' FROM THE RIGHT-OF-WAY/EASEMENT LINE (OPPOSITE SIDE OF DRAINAGE CHANNEL AS STREET).
5. POLYETHYLENE ENCASEMENT: ALL UNDERGROUND IRON FITTINGS, GLANDS, RESTRAINTS, VALVES, HYDRANT SHOES/RISERS, AND DUCTILE IRON PIPE SHALL BE ENCASED IN V-BIO® ENHANCED LINEAR LOW DENSITY POLYETHYLENE (LLDPE) IN ACCORDANCE WITH THE AWWA C105 STANDARD USING METHOD "A" OR "B". TAPE TO SECURE THE LLDPE WRAP SHALL BE AN APPROVED 2" (MIN) WIDE PLASTIC-BACKED DIELECTRIC TAPE. ANY RIPS, PUNCTURES, OR OTHER DAMAGE TO THE LLDPE WRAP SHALL BE REPAIRED.
6. NUTS AND BOLTS : ALL NUTS AND BOLTS BELOW FINISHED GRADE SHALL BE HIGH-STRENGTH LOW-ALLOY STEEL COATED WITH BLUE Xylan 1424® FLUOROPOLYMER. SURFACES ARE TO BE CHEMICALLY CLEANED, ABRASIVELY BLASTED AND PRIMED WITH A NICKEL PHOSPHATE PRIMER THEN TWO COATS OF LIQUID Xylan 1424® HEAT CURED PER THE MANUFACTURER'S RECOMMENDATIONS. A CERTIFICATE OF COMPLIANCE SHALL BE INCLUDED WITH THE NUT AND BOLT SUBMITTAL AND IN EACH SHIPMENT .
7. FITTINGS AND GLANDS : ALL DUCTILE IRON PIPE FITTINGS AND GLANDS SHALL BE FACTORY-APPLIED FUSION-BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEETING AWWA C116. NOMINAL EPOXY COATING AND LINING THICKNESS SHALL BE 6 MILS MINIMUM. THE FITTING SHALL HAVE NO CEMENT LINING PRIOR TO EPOXY COATING.
8. RESTRAINT DEVICES : THE COATING SYSTEM ON RESTRAINT DEVICES SHALL BE MEGA-BOND® BY EBAA IRON, INC. OR CORRSHIELD™ BY SIGMA CORPORATION OR APPROVED EQUAL.
9. VALVES ALL VALVES AND VALVE APPURTENANCES SHALL BE FACTORY-APPLIED FUSION-BONDED EPOXY COATED WHICH MEETS AWWA C550.
10. FIRE HYDRANT ALL FIRE HYDRANT NUTS AND BOLTS BELOW FINISHED GRADE SHALL BE HIGH-STRENGTH LOW -ALLOY STEEL COATED WITH BLUE Xylan 1424 ® FLUOROPOLYMER. THE FIRE HYDRANT SHOE AND NECESSARY RISERS SHALL BE FUSION-BONDED EPOXY COATED AND LINED WHICH MEET S AW WA C550 .
11. SERVICE TAPS COPPER SERVICE LINE ATTACHED TO DUCTILE IRON WATER LINE SHALL BE WRAPPED WITH PLASTIC-BACKED ADHESIVE DIELECTRIC TAPE A MINIMUM OF 3 FEET FROM THE MAIN WITH A MINIMUM ONE-INCH OVERLAP EACH WRAP. A MINIMUM OF THREE WRAPS OF PLASTIC-BACKED ADHESIVE DIELECTRIC TAPE SHALL BE APPLIED COMPLETELY AROUND THE PIPE TO COVER THE TAPPING AREA PRIOR TO TAPPING.
12. DUCTILE IRON PIPE: THE EXTERIOR OF DUCTILE IRON PIPE SHALL BE COATED WITH A LAYER OF ARC-SPRAYED ZINC PER ISO 8179. THE MASS OF THE ZINC APPLIED SHALL BE 200 G/M<sup>2</sup> OF PIPE SURFACE AREA. A FINISHED LAYER TOPCOAT SHALL BE APPLIED TO THE ZINC. THE MEAN DRY FILM THICKNESS OF THE FINISHED LAYER SHALL NOT BE LESS THAN 3 MILS WITH A LOCAL MINIMUM NOT LESS THAN 2 MILS. THE ZINC COATING SYSTEM SHALL CONFORM TO ISO 8179-1 "DUCTILE IRON PIPES - EXTERNAL ZINC-BASED COATING - PART 1: METALLIC ZINC WITH FINISHING LAYER". US PIPE AND AMERICAN CAST IRON PIPE ARE THE ONLY APPROVED MANUFACTURES OF DUCTILE IRON PIPE FOR USE IN THE CITY OF EDMOND.

CITY OF EDMOND

ENGINEERING DEPARTMENT  
CONSTRUCTION STANDARDS

GENERAL NOTES

WATER

WL-01REV

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