

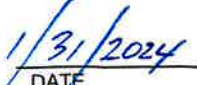


## HDPE & DIRECTIONAL DRILLING NOTES

1. HDPE PIPE MUST BE SDR11 UNLESS OTHERWISE SPECIFIED.
2. HDPE 4" IN DIAMETER AND LARGER SHALL BE STICK PIPE ONLY. THE USE OF COILED OR ROLLED PIPE ON REELS IS NOT APPROVED.
3. ANY INTERNAL BEAD FORMED DURING THE JOINT FUSION PROCESS SHALL BE REMOVED WITH AN INTERNAL PIPE DE-BEADER AND WITNESSED BY A REPRESENTATIVE OF EASTON UTILITIES.
4. AFTER PIPE INSTALLATION IS COMPLETE, A VERIFICATION MANDREL 6-INCHES LONG AND NOT MORE THAN 1/4-INCH DIAMETER SMALLER THAN THE TRADE SIZE DIAMETER OF THE DUCT SHALL BE DRAWN THROUGH EACH DUCT TO ENSURE THAT PIPE HAS NOT BEEN DEFORMED. WHEREVER A PIPE IS FOUND NOT TO BE ABLE TO PASS THE MANDREL TEST, THE CONTRACTOR, AT NO ADDITIONAL COST TO EASTON UTILITIES SHALL MAKE REPAIRS OR REDRILL FOR EACH FAILED PIPE.
5. AFTER THE MANDREL HAS BEEN DRAWN THROUGH THE PIPE, A DUCT BRUSH AND OR SWAB SHALL BE PULLED THROUGH EACH PIPE TO ENSURE THAT THE DUCT INTERIOR IS CLEAN.
6. A DETECTABLE PULL TAPE (1800-POUND MIN TENSILE STRENGTH) SHALL BE INSTALLED IN EACH PIPE; PROVIDE 10' SLACK AT EACH END.
7. AFTER PIPE INSTALLATION, ENDS SHALL BE CLOSED WITH PULL TAB EQUIPPED PUSH-IN POLYVINYL CHLORIDE (PVC) PLASTIC DUCT PLUGS TO PREVENT SOIL OR WATER ENTRY.
8. TRANSITION OF CONDUIT MATERIALS REQUIRES THE USE OF POLY-CAM SERIES 737 ID CONTROLLED TRANSITION FITTINGS (SCHEDULE 40 PVC TO HDPE).
9. AS AN ALTERNATIVE TO HDPE, CANTEX CANGRIP MAY BE USED WHEN DIRECTIONAL DRILLING UP TO 1000'.
10. A BORE LOG SHALL BE KEPT FOR EVERY DRILL AND SUBMITTED WITH AN AS-BUILT DRAWING AFTER THE COMPLETION OF A DIRECTIONAL DRILL.

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	 EU ENGINEERING DEPARTMENT			
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