

TRENCH NOTES:

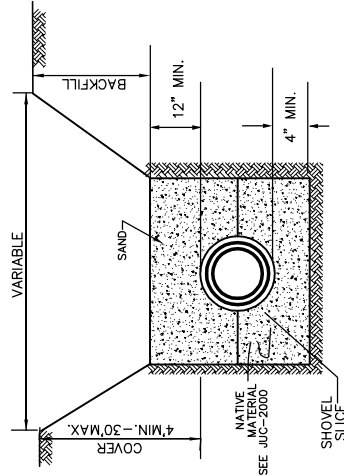
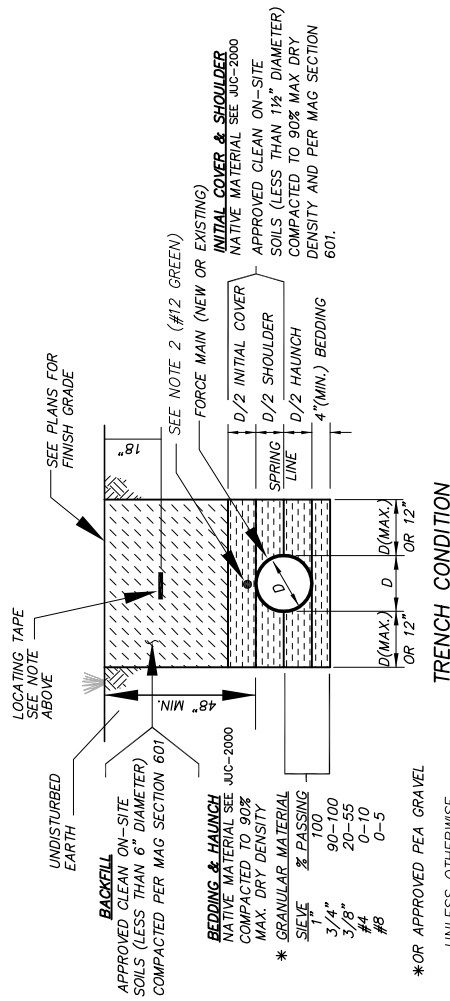
1. GREEN INSULATED COPPER WIRE (NO. 12 AWG.) REQUIRED DIRECTLY ON TOP OF FORCE MAIN & TAPED EVERY OTHER JOINT WITH DUCT TAPE. WIRE TO BE LOCATED WITHIN MAINLINE & WIRE SHALL ALSO BE INSTALLED AT VALVE BOXES.
3. WHENEVER ROCK IS ENCOUNTERED IN TRENCH BOTTOM OVEREXCAVATION SHALL BE REQUIRED TO A MIN. OF 6" DEPTH BELOW O.D. OF PIPE AND REPLACED WITH 3/4" MINUS GRANULAR MATERIAL.
4. MINIMUM COVER SHALL BE MEASURED FROM THE EXISTING OR PROPOSED GRADE OF PAVEMENT, OR FROM NATURAL GROUND, WHICHEVER IS DEEPER.
5. CONTRACTOR SHALL CONFORM TO ALL OSHA STANDARDS AND REGULATIONS FOR TRENCH EXCAVATION AND PIPELINE INSTALLATION.

2. DETECTABLE PIPE LOCATING TAPE FOR PVC PIPE

THE CONTRACTOR SHALL INSTALL A DETECTABLE PIPE LOCATING TAPE OVER ALL FORCE MAINS. THE BACKFILL SHALL BE SUFFICIENTLY LEVELED SO THAT THE TAPE WILL BE INSTALLED ON A FLAT SURFACE. THE TAPE SHALL BE CENTERED IN THE TRENCH AND LAID FLAT WITH PRINTED SIDE UP. CAUTION SHALL BE EXERCISED TO AVOID DISPLACEMENT OF TAPE AND TO ENSURE ITS INTEGRITY. THE TAPE SHALL CONSIST OF A MINIMUM 4.0 MIL THICKNESS, INERT POLYETHYLENE PLASTIC WHICH IS IMPERVIOUS TO ALL KNOWN ALKALIS, ACIDS, CHEMICAL REAGENTS AND SOLVENTS LIKELY TO BE ENCOUNTERED IN THE SOIL, WITH A MINIMUM 1/3"-MIL METALLIC FOIL. THE TAPE SHALL BE AT LEAST THREE INCHES (3") IN WIDTH AND SHALL BE SOLID GREEN WITH IDENTIFYING PRINT IN BLACK LETTERS. THE TAPE SHALL HAVE PRINTED THEREON THE FOLLOWING:

"CAUTION-BURIED WASTEWATER FORCE MAIN BELOW"
 THE IDENTIFYING LETTERING SHALL BE A MINIMUM 1" HIGH AND REPEATED CONTINUOUSLY THE FULL LENGTH OF THE TAPE. IN NO INSTANCE SHALL THE SPACING OF THE INDIVIDUAL SEGMENT OF THE IDENTIFYING MESSAGE BE GREATER THAN EIGHT INCHES (8").

JOHNSON UTILITIES, LLC
 CONSTRUCTION SPECIFICATIONS
 REV. 7/07



TRENCH EXCAVATION, BACK FILLING, & COMPACTION SHALL BE PER M.A.G. STD. SPEC. SEC. 601

BEDDING DETAIL

UNLESS OTHERWISE SPECIFIED BY JOHNSON UTILITIES.

FORCE MAIN TRENCH DETAIL

(OR APPROVED EQUAL)
 N.T.S.