



NOTES:

1. ALL EXCAVATIONS SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE CONSTRUCTION STANDARDS FOR EXCAVATIONS IN OSHA "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION", CHAPTER XV11 OF TITLE 29, CFR, PART 1926. THE CONTRACTOR SHALL HAVE A COMPETENT PERSON ON THE JOB AT ALL TIMES AND SHALL EMPLOY A PROFESSIONAL ENGINEER TO ACT UPON ALL PERTINENT MATTERS OF THE WORK.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

THE PIPE CULVERT INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH NCDOT TYPICAL STANDARD DETAIL 300.01, METHOD OF PIPE INSTALLATION.

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.

O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.

H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE FLEXIBLE PAVEMENT STRUCTURE

RCP PIPE - AASHTO M170

MINIMUM FILL HEIGHT 1' FOR NCDOT CLASS IV & NCDOT CLASS V OR 2' HEIGHT FOR NCDOT CLASS II AND NCDOT CLASS III
 MAXIMUM FILL HEIGHT NCDOT CLASS II PIPE IS 10 FT., NCDOT CLASS III IS 20 FT., NCDOT CLASS IV IS 30', NCDOT CLASS V IS 40 FT.

A FLEXIBLE JOINT SEAL SHALL BE USED AT ALL PIPE JOINTS

12" - 18" DIA PIPE MIN. 1" WIDE JOINT SEALS

24" - 60" DIA. PIPE MIN. 1-1/4" WIDE JOINT SEAL

THE RCP STANDARDS NOTED HEREON ACCOUNT FOR NORMAL EARTH FOUNDATION CONDITIONS. CONSULT WITH ENGINEER SHOULD CONDITIONS VARY.

FOR ADDITIONAL REFERENCE: WWW.NCDOT.GOV OR WWW.CONCRETEPIPE.ORG

DOUBLE WALL POLYPROPYLENE PIPE - AASHTO M330

MINIMUM FILL HEIGHT FOR PIPE Ø >12" AND ≤48" IS 1 FT. AND FOR Ø ≥60" IS 2 FT.

MAXIMUM FILL HEIGHT FOR PIPE Ø ≤18" IS 20 FT.

MAXIMUM FILL HEIGHT FOR PIPE Ø ≥24" AND ≤60 IS 20 FT. FOR CLASS 2 BACKFILL 95%SPD

MAXIMUM FILL HEIGHT FOR PIPE Ø ≥24" AND ≤60 IS 14 FT. FOR CLASS 3 BACKFILL 95%SPD

1. ALL POLYPROPYLENE PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND BEYOND THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS AS PER THE LATEST VERSION OF ASTM D2321.
2. DO NOT LAY OR EMBED PIPE OR DRAINAGE STRUCTURES IN STANDING OR RUNNING WATER. PREVENT SURFACE WATER FROM ENTERING THE TRENCH AT ALL TIMES.
3. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL.
4. THE TRENCH BOTTOM SHALL BE STABLE AND OF A SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER.
5. ALL PIPE SUPPLIED SHALL BE DOUBLE GASKETED WATERTIGHT JOINTS, BELL AND SPIGOT MEETING THE REQUIREMENTS OF ASTM F2881. MARMAC REPAIR COUPLERS SHALL BE UTILIZED TO CONNECT FIELD CUT PIPE.
6. DOUBLE GASKETED WATERTIGHT JOINTS SHALL BE BELL AND SPIGOT MEETING THE WATERTIGHT REQUIREMENTS OF ASTM F2881.
7. THE STANDARDS NOTED HEREON ACCOUNT FOR NORMAL EARTH FOUNDATION CONDITIONS. CONSULT WITH ENGINEER SHOULD CONDITIONS VARY.
8. MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS SHALL APPLY.



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**STANDARD CROSS-STREET DRAINAGE
 PIPE INSTALLATION DETAIL**

SCALE: NONE
 ISSUE DATE: 1-29-2019
 REVISION DATE: 1-29-2019
 SHEET NO: 1 OF 1
 DRAWN BY: DMR

DETAIL NO.:
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