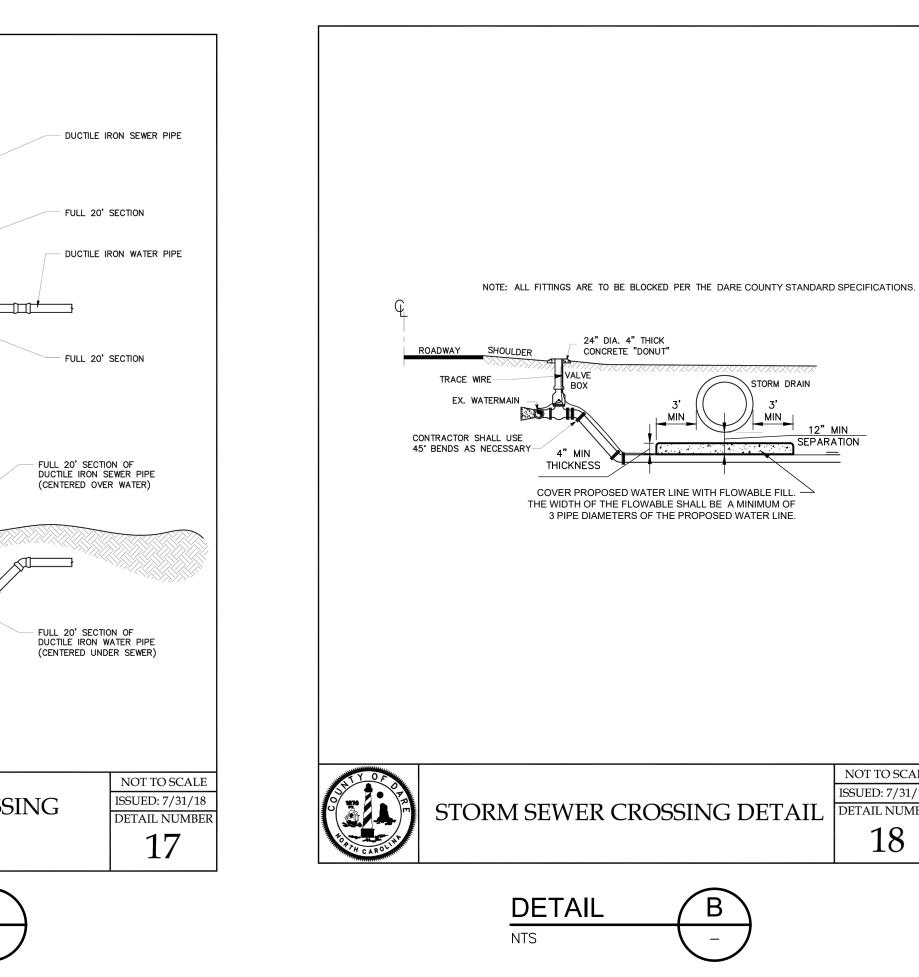


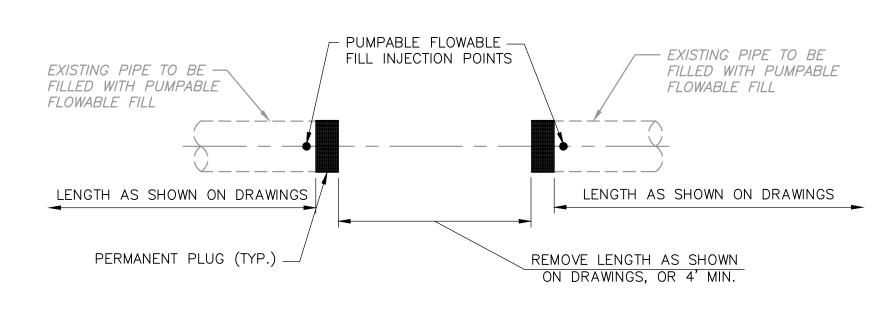
DITCH CROSSING DETAIL

DETAIL

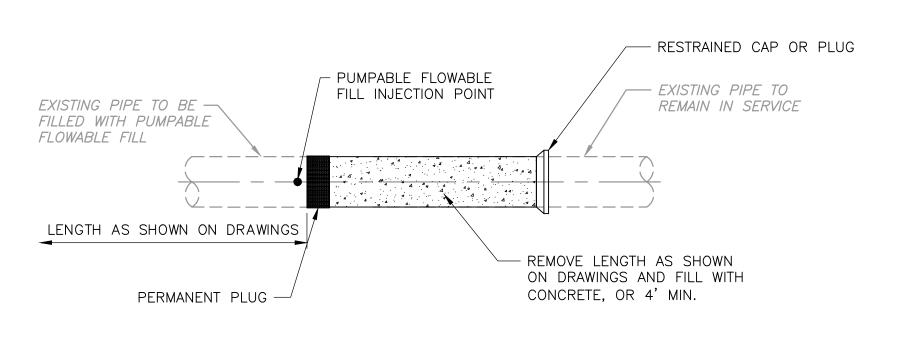
NOT TO SCALE ISSUED: 7/31/18

DETAIL NUMBER

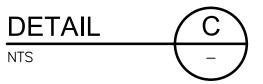


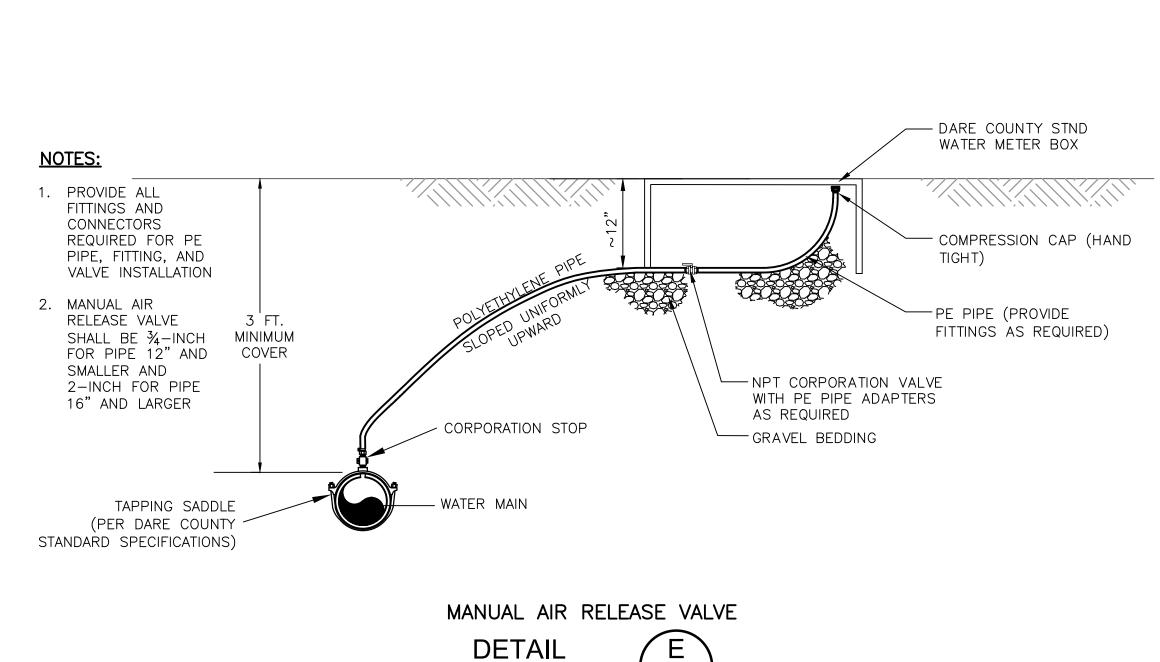


TYPICAL IN-LINE PIPE CUT AND PLUG



TYPICAL IN-LINE PIPE CUT AND RESTRAINED PLUG



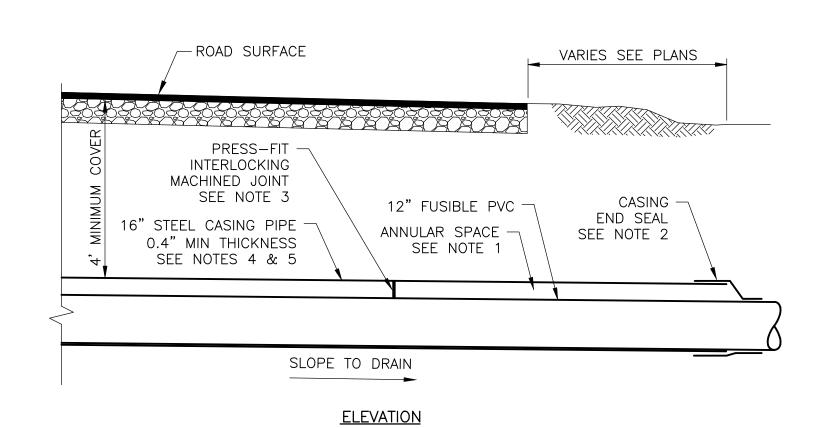


NOT TO SCALE

ISSUED: 7/31/18

DETAIL NUMBER

18



PROJECT REFERENCE NO.

R-5014

JDB

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

DESIGNED BY: DMD

DRAWN BY: DMD/MNG

APPROVED BY: CMT

NORTH CAROLINA

TRANSPORTATION

UTILITIES ENGINEERING SEC.

PHONE: (919)707-6690 FAX: (919)250-4151

DEPARTMENT OF

CHECKED BY:

REVISED:

SHEET NO. UC-3D

TH CARO

UTILITY CONSTRUCTION

PLANS ONLY

NOTES:

- 1. ANNULAR SPACE TO REMAIN OPEN AND SHALL NOT BE FILLED OR GROUTED.
- 2. INSTALL CASING END SEALS WITH STAINLESS STEEL BANDS AS MANUFACTURED BY PIPELINE SEAL AND INSULATOR, INC., ADVANCE PRODUCTS & SYSTEMS, LLC, WESTATLANTIC TECH, OR APPROVED EQUAL.
- 3. MACHINED JOINT SHALL BE PERMALOK AB JOINT BY NORTHWEST PIPE COMPANY, TRI-LOC BY TRINITY PRODUCTS, OR APPROVED EQUAL. MACHINED JOINT SHALL BE LEAK RESISTANT UTILIIZING A SILICONE SEALANT OR APPROVED
- 4. CASING PIPE TO BE INSTALLED VIA OPEN CUT ACCORDANCE WITH SPECIFICATIONS AND DETAIL F ON SHEET UC-3C.
- 5. MINIMUM ENCASEMENT PIPE THICKNESS MAY ONLY BE MODIFIED WITH STRUCTURAL DESIGN CALCULATIONS PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA. THE CALCULATIONS SHALL CERTIFY A DURABILITY AND A DESIGN LIFE OF 100 YEARS. THE CALCULATIONS SHALL INCLUDE A RATE OF CORROSION FOR STEEL PIPE BASED ON THE SUBSURFACE CONDITIONS AT EACH ENCASEMENT LOCATION. THE SUBSURFACE CONDITIONS AND RATE OF CORROSION FOR STEEL PIPE SHALL BE OBTAINED FROM SUBSURFACE TESTING AT EACH LOCATION PERFORMED AND CERTIFIED BY A GEOTECHNICAL SERVICES FIRM LICENSED IN THE STATE OF NORTH CAROLINA.

INTERLOCKING STEEL ENCASING PIPE

