

5/14/99

THRUST BLOCKING IS REQUIRED

PROPOSED 665 LBS. DUCTILE IRON WATER PIPE FITTINGS

PROPOSED 2580 LBS. DUCTILE IRON SEWER PIPE FITTINGS

TIE NEW 15" SDR 35 PVC GRAVITY SANITARY SEWER TO EXISTING MANHOLE #1

4' DIA EX UTILITY MANHOLE #1
STA 10+00
TOP=89.16'
INV IN=75.66' (FROM EXIST)
INV IN=75.72' (FROM EXIST)
INV IN=77.50' (INV. IN FROM MH #2)
INV OUT=75.63'
(ALL INVERTS FROM SURVEY)

162 LF 8" SANITARY GRAVITY SEWER SDR 35 PVC GRAVITY

2,923 LF 10" FORCE MAIN SEWER C900 DR 18 PC 235 PVC, R.J. DIP

320 LF 15" SANITARY GRAVITY SEWER SDR 35 PVC GRAVITY

426 LF 6" WATER LINE C900 DR 18 PC 235 PVC

160 LF 8" WATER LINE R.J. DIP, DR9 (DIPS) HDPE

UTILITY CONSTRUCTION PLANS

FINAL DESIGN
RELEASE FOR CONSTRUCTION

PROJECT REFERENCE NO.	R-5797	SHEET NO.	UC-5
DESIGNED BY:	SLK	DATE	2/16/2004
DRAWN BY:	SLK		
CHECKED BY:	DBC		
APPROVED BY:	DBC		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		SEAL 022092 ENGINEER ALAN W. MANESS	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107		UTILITIES CONSTRUCTION PLANS ONLY	

TIE TO EXISTING 8" WATER MAIN. INSTALL NEW 8" TAPPING SLEEVE/GATE VALVE. RESTRAIN NEW 8" RJ DIP TO NEW 8" GATE VALVE/TEE. USE STAINLESS STEEL "ALL THREAD" RODDING AS REQUIRED. COORDINATE WORK WITH TOWN OF BOARDMAN.

4' DIA. UTILITY MANHOLE

4' DIA UTILITY MANHOLE #2
STA 10+25
TOP=87.64' +/-
INV IN=78.15'
INV OUT=77.95'

652 LF ABANDON 2" UTILITY LINE

483 LF ABANDON 15" UTILITY LINE

4' DIA UTILITY MANHOLE #5
STA 11+62
TOP=88.47' +/-
INV OUT=81.63'

4' DIA. UTILITY MANHOLE

PROVIDE NEW 2" METER AND BACKFLOW PREVENTER PER TOWN OF BOARDMAN STANDARDS AND SPECIFICATIONS

CONTRACTOR TO TIE TO EXISTING WATER SERVICE AND REMOVE EXISTING METER AND BFP

BEGIN CONSTRUCTION -YIA- POT STA. 11+00.00

CONTRACTOR TO PROVIDE COUPLINGS TO CONNECT 8" RJ DIP TO 8" DR9 (DIPS) HDPE (TYP)

PROVIDE HORIZONTAL AND VERTICAL BENDS AS REQUIRED (TYP)

8" WATER LINE R.J. DIP

8" TAPPING SLEEVE & VALVE

10' X 20' BORE PIT

EXISTING 8" PVC WATER LINE (APPROXIMATE LOCATION)

EXISTING 12" HDPE GRAVITY SEWER (APPROXIMATE LOCATION)

8" WATER LINE DR 9 (DIPS) HDPE

123 LF OF DIRECTIONAL DRILLING OF 8"

15" SANITARY GRAVITY SEWER SDR-35 PVC

6" WATER LINE C900 DR 18 PC 235 PVC

4' DIA. UTILITY MANHOLE

4' DIA UTILITY MANHOLE #3
STA 11+96
TOP=88.10' +/-
INV IN=79.36'
INV OUT=79.16'

4' DIA. UTILITY MANHOLE

4' DIA UTILITY MANHOLE #4
STA 13+20
TOP=88.23' +/-
INV IN=80.67' (8" GRAVITY)
INV IN=80.51' (10" FSS)
INV OUT=80.09'

CONTRACTOR TO PROVIDE COUPLINGS TO CONNECT 6" C900 DR18 PC235 PVC TO 8" DR9 (DIPS) HDPE (TYP)

* NOTE: PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA. AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.

** SEE CONCRETE THRUST COLLAR AND TRANSITION DETAIL FROM HDPE TO DI/PVC PIPE DETAILS SHOWN ON SHEET 3-C.

FOR -WL- PROFILE, SEE SHEET UC-8

FOR -SLI- PROFILE, SEE SHEET UC-9

MATCHLINE -SLI- STA 16+20.00 SEE SHEET UC-6

REVISIONS

2/15/99 ut_rdy7_UC5_psh.dgn
US:frankm