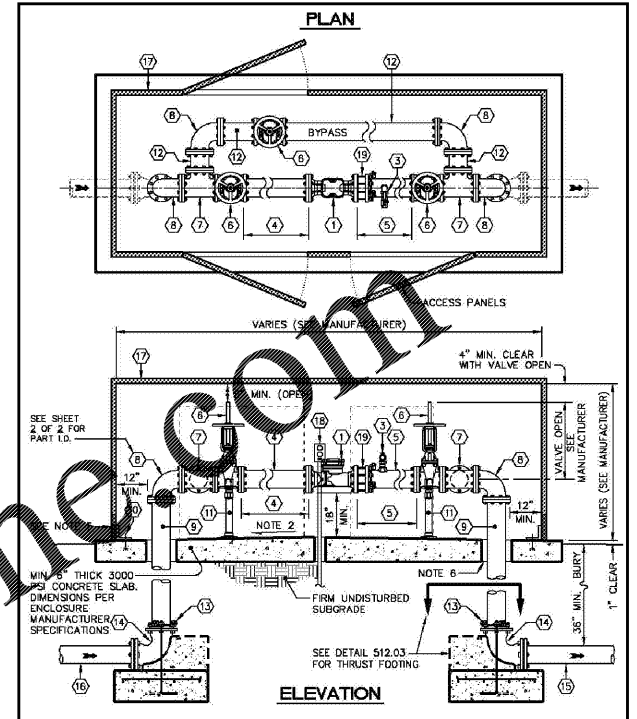


2 1/2" - 10" DCV, DDCV, RPZ ASSEMBLY (ABOVE GROUND)

PART	MANUFACTURER MODEL / CAT. No.
1 BACKFLOW ASSEMBLY	SEE SPECS. 0210 1.10 and 2.2.2 - PRODUCTS
2 OS&Y GATE VALVE WITH RESILIENT SEATS	TO BE APPROVED, MANUFACTURER SPECS ADHERING TO AWWA-C508
3 90° DIP FLANGE x PE FLANGE ELBOW	AMERICAN PIPE, GRIFFIN PIPE CO., U.S. PIPE & FOUNDRY
4 DIP FLANGE x PE PIPE (VERIFY LENGTH)	AMERICAN PIPE, GRIFFIN PIPE CO., U.S. PIPE & FOUNDRY
5 90° DIP MJ x MJ ELBOW	AMERICAN PIPE, GRIFFIN PIPE CO., U.S. PIPE & FOUNDRY
6 WEDGE ACTION RESTRAINER GLAND JOINT RESTRAINT	EBBA IRON SALES, INC., SIGMA ONE LOCK, TYLER UNION (TUF GRP), UNI-FLANGE CORP., SMITH-BLAIR
7 3" THRU 10" DIP	AMERICAN PIPE, GRIFFIN PIPE CO., U.S. PIPE & FOUNDRY
8 INSULATED ENCLOSURE WITH LOCKING ACCESS DOORS AND, IF ORDERED BY THE CITY ENGINEER OR WATER RESOURCES, HEATER (120 V, 1 PHASE, 60 HZ) VERIFY FITTINGS WILL FIT INSIDE BOX BEFORE ORDERING	HOTBOX / HBAE - HBIDE (OR APPROVED EQUIVALENT)
9 STAINLESS STEEL EXPANSION ANCHOR BOLTS PER BOX MANUFACTURER RECOMMENDED SIZE & SPACING	---
10 ADJUSTABLE PIPE SUPPORTS HOT DIP GALVANIZED	SHOP FABRICATED AND HOT DIP GALVANIZED OR "STANDON" MODEL S82 SADDLE SUPPORT, UL STD. 943-NEMA 3R
11 PROVIDE 120V RECEPTACLE ON GFCI NEAR PIPE RISER, SET MINIMUM 12" ABOVE DISCHARGE POINT OF RPZ, (AS APPLICABLE)	---

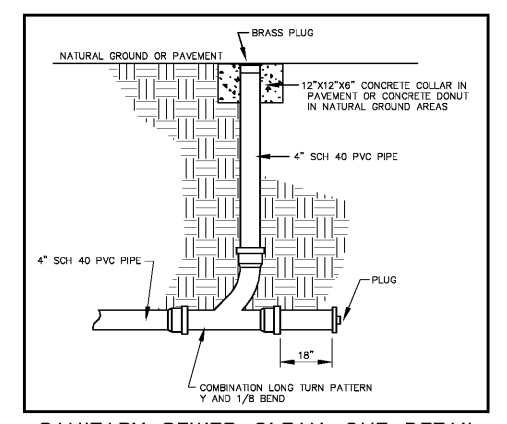
NOTES:
 1. Provide minimum 1" around electrical conduit.
 2. Slope floor to drain to ports at both ends. Ensure positive surface grade away from enclosure.



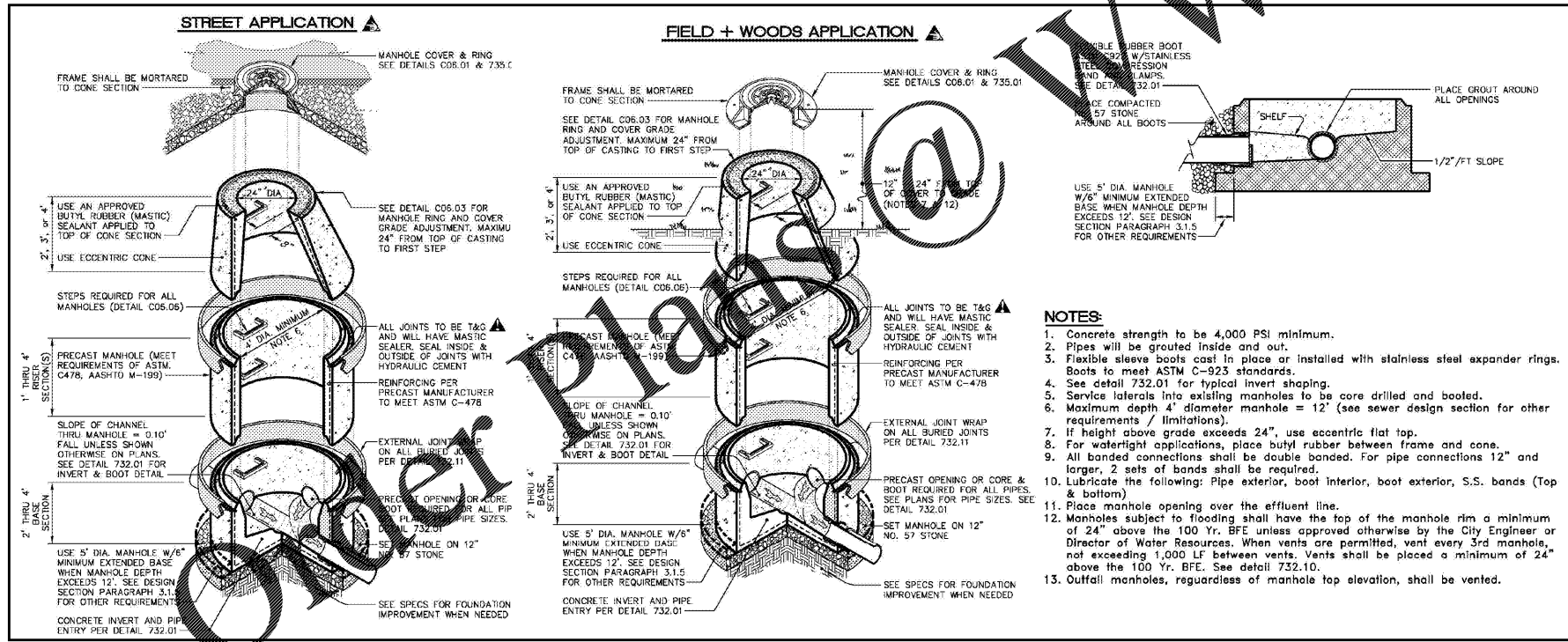
PART	MANUFACTURER MODEL / CAT. NO.
1 ULTRASONIC METER	SEE APPROVED PRODUCT LIST
2 (Omitted (Nov. 2016))	---
3 2" TEST PORT INSTALLED ON #5	---
4 DIP CLASS 350 NIPPLE (FLANGED) LENGTH = 5 TIMES THE PIPE DIAMETER	AMERICAN, GRIFFIN, OR U.S. PIPE
5 DIP CLASS 350 NIPPLE (FLANGED) LENGTH = 3 TIMES THE PIPE DIAMETER	AMERICAN, GRIFFIN, OR U.S. PIPE
6 OS&Y GATE VALVE WITH RESILIENT SEATS	TO BE APPROVED BY CITY ENGINEER
7 DIP CLASS 350 TEE (FLANGED)	AMERICAN, GRIFFIN, OR U.S. PIPE
8 DIP CLASS 350 90° BEND (FLANGED)	AMERICAN, GRIFFIN, OR U.S. PIPE
9 DIP CLASS 350 (FLANGED x PE)	AMERICAN, GRIFFIN, OR U.S. PIPE
10 STAINLESS STEEL EXPANSION ANCHOR BOLTS PER BOX MANUFACTURER RECOMMENDED SIZE & SPACING	PER BOX MANUFACTURER
11 ADJUSTABLE PIPE SUPPORTS HOT DIP GALVANIZED OR "STANDON" MODEL S82 SADDLE SUPPORT	---
12 DIP CLASS 350 NIPPLE (FLANGED) LENGTH = VARIES	AMERICAN, GRIFFIN, OR U.S. PIPE
13 WEDGE ACTION RESTRAINER GLAND JOINT RESTRAINT	EBBA / MEGA-LUG, UNI-FLANGE / SERIES 1400, SIGMA / MODEL SLD, TYLER UNION / TGD, SMITH-BLAIR / STYLE 111
14 90° DIP MJ x MJ ELBOW	AMERICAN, GRIFFIN, OR U.S. PIPE
15 DIP PIPE (OUTLET)	AMERICAN, GRIFFIN, OR U.S. PIPE
16 DIP PIPE (INLET)	AMERICAN, GRIFFIN, OR U.S. PIPE
17 INSULATED ENCLOSURE WITH LOCKING ACCESS DOORS AND, IF ORDERED BY THE CITY ENGINEER OR WATER RESOURCES, HEATER (120 V, 1 PHASE, 60 HZ) VERIFY FITTINGS WILL FIT INSIDE BOX BEFORE ORDERING	HOTBOX / HBAE - HBIDE (OR APPROVED EQUIVALENT)
18 PROVIDE 120V RECEPTACLE ON GFCI NEAR PIPE RISER, SET MINIMUM 12" ABOVE DISCHARGE POINT OF RPZ, (AS APPLICABLE)	UL STD. 943-NEMA 3R
19 RESTRAINED FLANGED COUPLING ADAPTOR	SEE APPROVED PRODUCT LIST

NOTES:
 1. Meter and tee to be installed by contractor in accordance with specifications but approved prior to installation.
 2. Slope floor to drain to ports at both ends. Ensure positive surface grade away from enclosure.
 3. 12" clearance around all connections inside vault from floor & walls.
 4. Vault size & rebar to be per NCEP and approved by the City.
 5. Provide drain port for positive drainage out of enclosure. (Minimum twice the size of water main pipe).
 6. Provide minimum 3" annular clearance around all DIP risers and 1" around electrical conduit.

3" AND LARGER WATER METER WITH BYPASS (ABOVE GROUND)



SANITARY SEWER CLEAN-OUT DETAIL



STANDARD SANITARY SEWER PRECAST MANHOLE WITH ECCENTRIC CONE

NOTES:
 1. Concrete strength to be 4,000 PSI minimum.
 2. Pipes will be grouted inside and out.
 3. Flexible sleeve boots cast in place or installed with stainless steel expander rings. Boots to meet ASTM C-925 standards.
 4. See detail 732.01 for typical invert shaping.
 5. Service laterals into existing manholes to be core drilled and booted.
 6. Maximum depth 4' diameter manhole = 12' (see sewer design section for other requirements / limitations).
 7. If height above grade exceeds 24", use eccentric flat top.
 8. For watertight applications, place butyl rubber between frame and cone.
 9. All banded connections shall be double banded. For pipe connections 12" and larger, 2 sets of bands shall be required.
 10. Lubricate the following: Pipe exterior, boot interior, boot exterior, S.S. bands (Top & bottom)
 11. Place manhole opening over the effluent line.
 12. Manholes subject to flooding shall have the top of the manhole rim a minimum of 24" above the 100 Yr. BFE unless approved otherwise by the City Engineer or Director of Water Resources. When vents are permitted, vent every 3rd manhole, not exceeding 1,000 LF between vents. Vents shall be placed a minimum of 24" above the 100 Yr. BFE. See detail 732.10.
 13. Outfall manholes, regardless of manhole top elevation, shall be vented.



TRC Stamp:	City Council Stamp:	Revision	Date	By
		ADD WATER METER DETAIL	01-25-19	THW

Herring-Sutton & Associates, P.A.
 Engineers - Surveyors - Planners
 2201 Nash Street NW, Wilson, North Carolina 27896 (252) 291-8887

- Holiday Inn Express -
 City of Wilson, N.C.

Water & Sanitary Sewer Construction Details

Date:	July 2018
Scale:	as shown
Map No.:	2018-4260L
Drawn by:	twh
Sheet No.:	DT-2