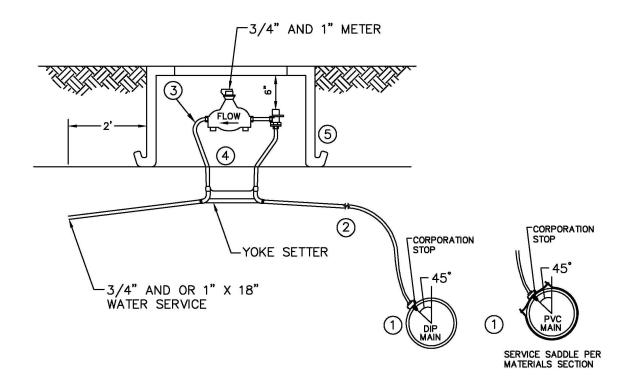
NOTES:

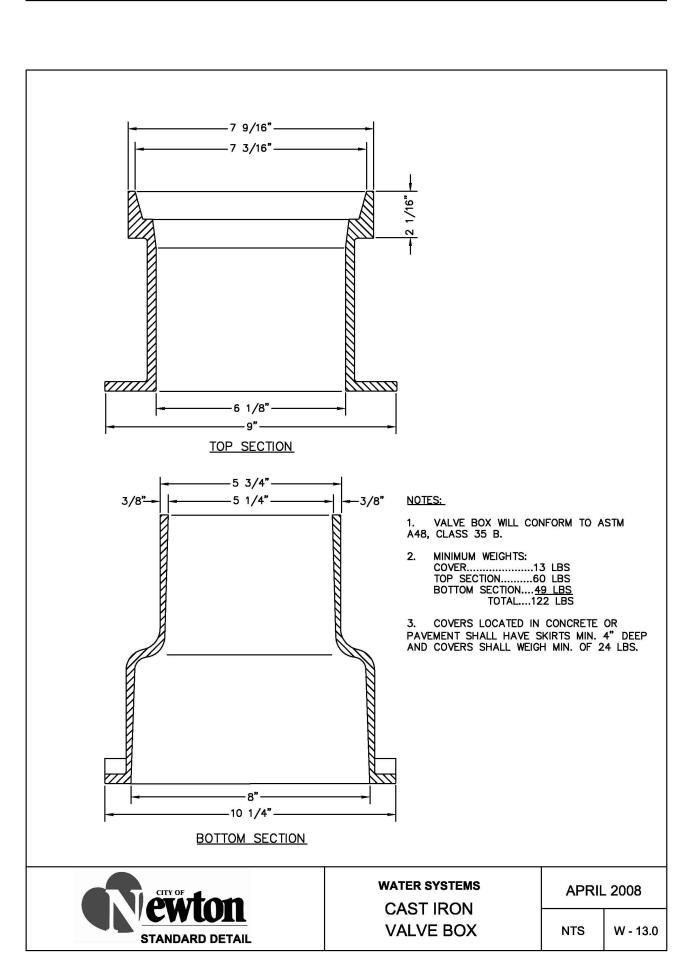
- 1. METER TO BE FURNISHED AND INSTALLED BY CITY OF NEWTON.
- 2. WATER METER IN ACCORDANCE WITH THE STANDING SPECIFICATIONS PER WATER DISTRIBUTIONS. ALL FITTINGS TO BE COMPRESION JOINT TYPE AS APPROVED BY THE DIRECTOR OF UTILITIES.
- 3. MINIMUM TAP SPACING SHALL BE 8" O.C.
- DIRECT TAPS 3/4—INCH AND 1—INCH CAN BE MADE TO 6—INCH OR LARGER DUCTILE IRON PIPE, PRESSURE CLASS 350. ALL OTHER APPLICATIONS SHALL INCORPORATE A SERVICE SADDLE.

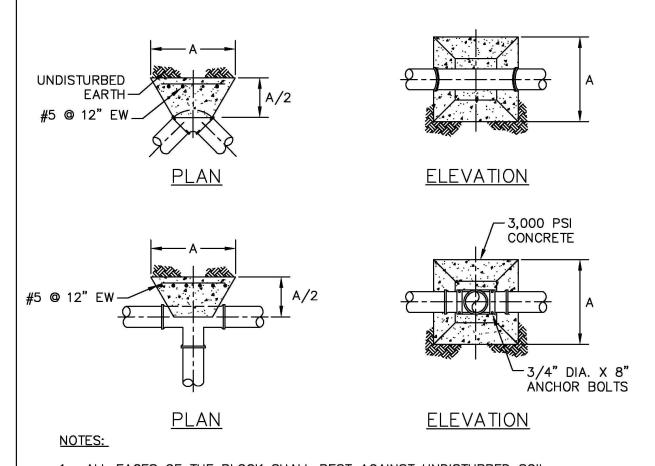


LEGEND:

- (1) COMPRESSION CORPORATION STOP PER MATERIALS SECTION.
- 2 COPPER TUBING, TYPE K, WITH COMPRESSION JOINTS AND/OR 3/4" TYPE K SOFT COPPER PIPE OR 200 PSI POLY TUBING CTS PARR PE 3408 OR EQUAL
- 3 COMPRESSION YOKE 90° ANGLE BALL VALVE, WITH LOCK OUT WING, PER MATERIALS SECTION.
- (4) COPPER SETTER OUTLET PIECE GROOVED FOR WASHER, 90° OUTLET PER MATERIALS SECTION.
- 5 BLACK POLYETHYLENE OR CAST IRON METER BOX PER THE MATERIALS SECTION.

	WATER SYSTEMS		
Newton	3/4" & 1" SERVICE CONNECTION	OCTOBER 2008	
		NTS	W - 3.0





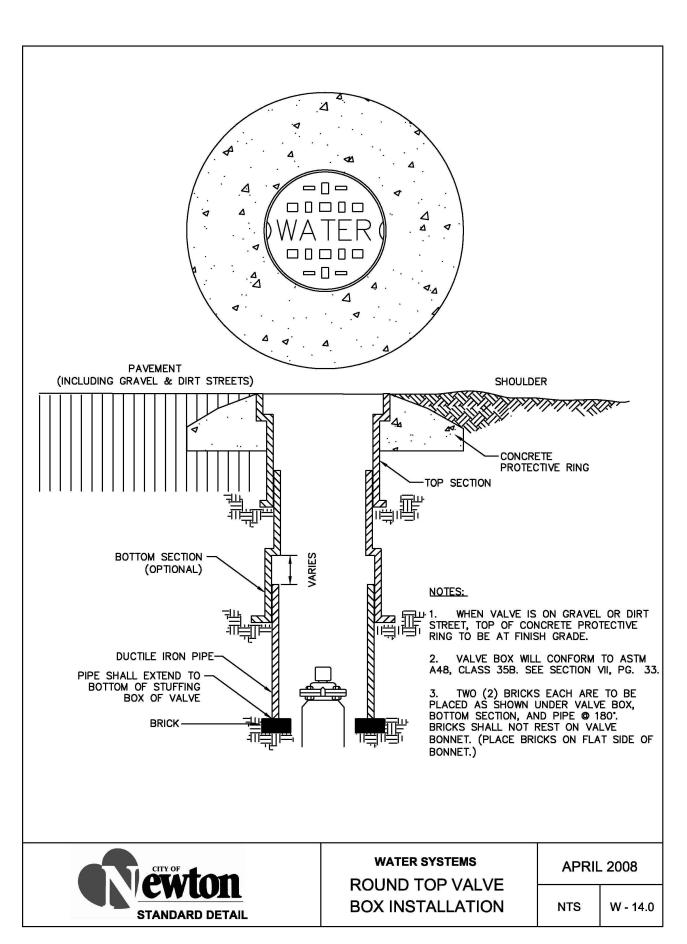
- ALL FACES OF THE BLOCK SHALL REST AGAINST UNDISTURBED SOIL.
 PIPE JOINTS, BOLTS, NUTS, RETAINER GLANDS ARE NOT TO BE ENCASED IN CONCRETE
- DIMENSIONS BASED ON 150 PSI TEST PRESSURE 1,000 PSF BEARING CAPACITY.
 THRUST BLOCKS ARE ALLOWED ONLY WHEN THERE IS NOT ENOUGH PIPE LENGTH TO PROVIDE SUFFICIENT THRUST RESTRAIN VIA RESTRAINED JOINT PIPE, OR WHEN CONNECTING TO AN EXISTING PIPE THAT IS NOT A RESTRAINED JOINT.

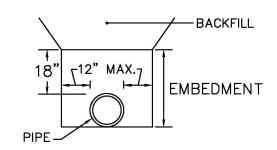
DIMENSION "A"						
FITTING	PIPE SIZE					
	4"	6"	8"	12"		
11 1/4° BEND	1'-6"	1'-6"	1'-6"	2'-0"		
22 1/2° BEND	1'-6"	1'-6"	2'-0"	2'-8"		
45° BEND	1'-6"	2'-0"	2'-6"	3'-8"		
90° BEND	1'-8"	2'-6"	3'-4"	5'-0"		
TEE	1'-8"	2'-6"	3'-4"	5'-0"		



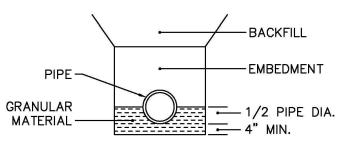
WATER SYSTEMS
THRUST BLOCK







ORDINARY PIPE BEDDING



TYPE "A" BEDDING

		LIMITING INVERT DEPTHS				
	BEDDING	PIPE DIAMETER				
		6"	8"	10"	12"	
	ORDINARY	4'-20'	4'-15'	4'-10'	4'-10'	
	TYPE "A"	-	15'-20'	10'-20'	10'-20'	

<u>NOTES</u>

- 1. PIPES AT DEPTHS GREATER THAN 12' MUST BE APPROVED BY THE DIRECTOR OF UTILITIES.
- 2. PIPE BEDDING SHALL BE DESIGNED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, DUCTILE IRON PIPE RESEARCH ASSOCIATION OR OTHER APPLICABLE DESIGN STANDARDS.
- 3. PIPE EMBEDMENT SHALL BE PLACED IN A MAXIMUM OF 6" LAYERS & COMPACTED TO 95% OF THE MAXIMUM LABORATORY DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD.
- 4. PIPE EMBEDMENT SHALL EXTEND TO FINISHED GRADE FOR PIPELINES WITHIN ROAD RIGHT-OF-WAY.



WATER SYSTEMS
DUCTILE IRON PIPE
TRENCHING & BACKFILLING
(UP TO 20' DEEP)

APRIL 2008

W - 8.0

SHEET NO. PROJECT REFERENCE NO. R-3100B UC-3B DESIGNED BY: RJM DRAWN BY: RAB CHECKED BY: DGC APPROVED BY: REVISED: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 UTILITY CONSTRUCTION PLANS ONLY FAX: (919)250-4151

TILITY CONSTRUCTION



1240 19th STREET, LANE NW HICKORY, NC 28601 PH. (828) 328-2024 FIRM LICENSE # C-0459

DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES COMPLETE