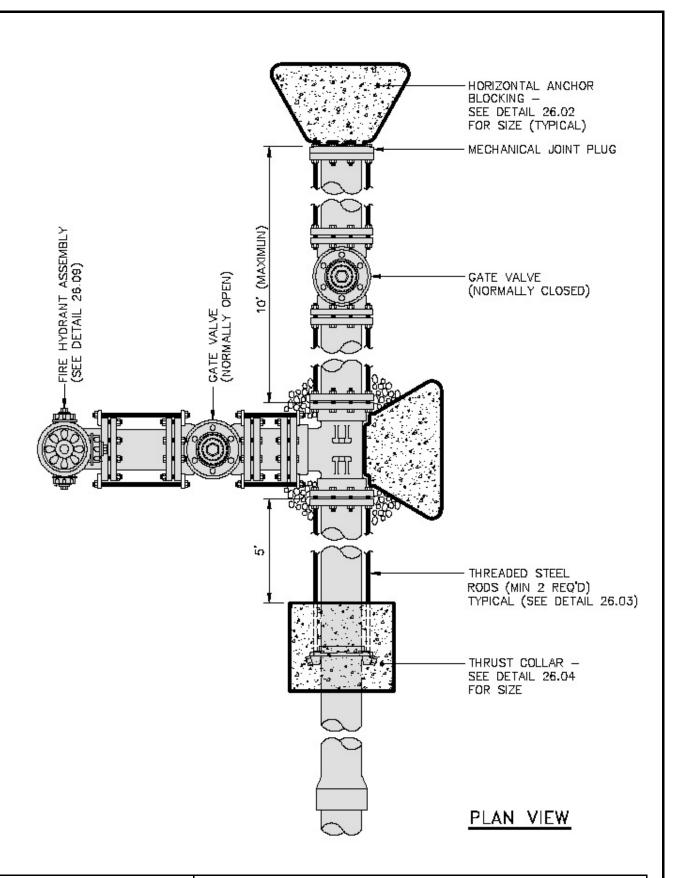
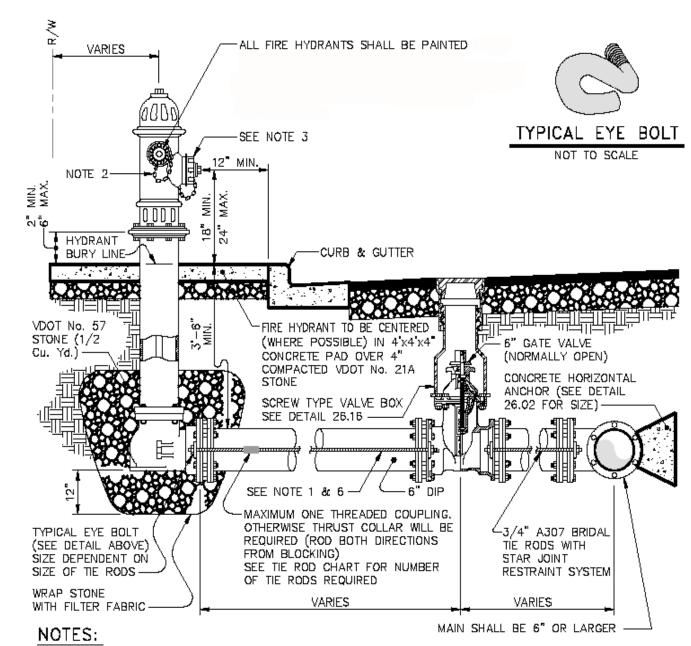


- BEDDING SHALL BE REQUIRED FOR WATER LINES 16" IN DIAMETER AND LARGER OR IF ROCK IS ENCOUNTERED.
- 2. EXTRA DEPTH EXCAVATION SHALL BE PAID FOR AS ANYTHING BEYOND 4' OF COVER TO TOP OF PIPE.
- 3. ANY FXCAVATION BEYOND TRENCH LIMITS SHOWN ON DETAIL SHALL BE AT THE CONTRACTOR'S EXPENSE.

Operations Division	WATER LINE TRENCH DETAIL	
HC5A 🗇	Adopted: 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 01

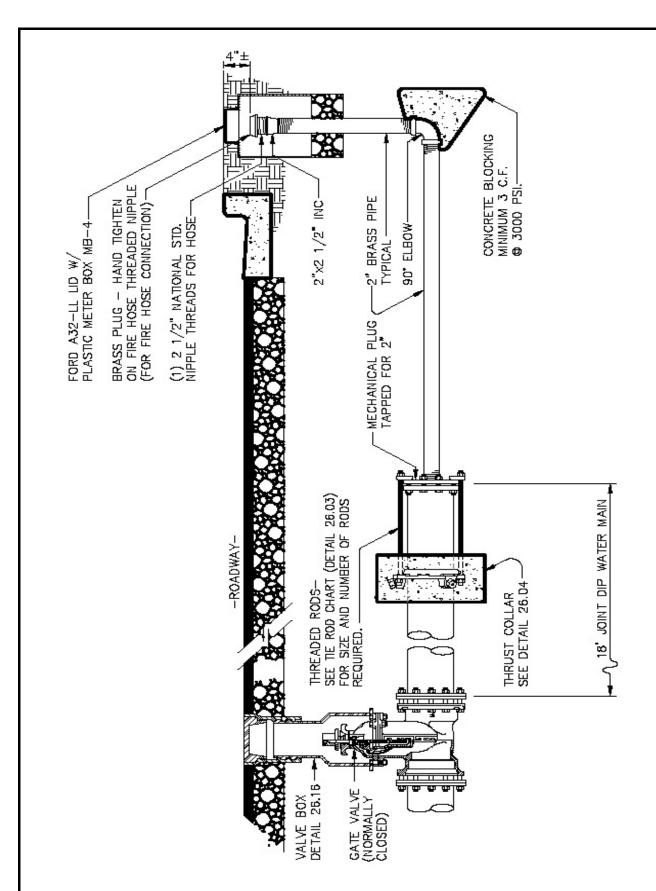


Operations Division	END OF LINE FOR FUTURE EXPANSION DETAIL	
HC5A 🔝	Adopted: 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 10

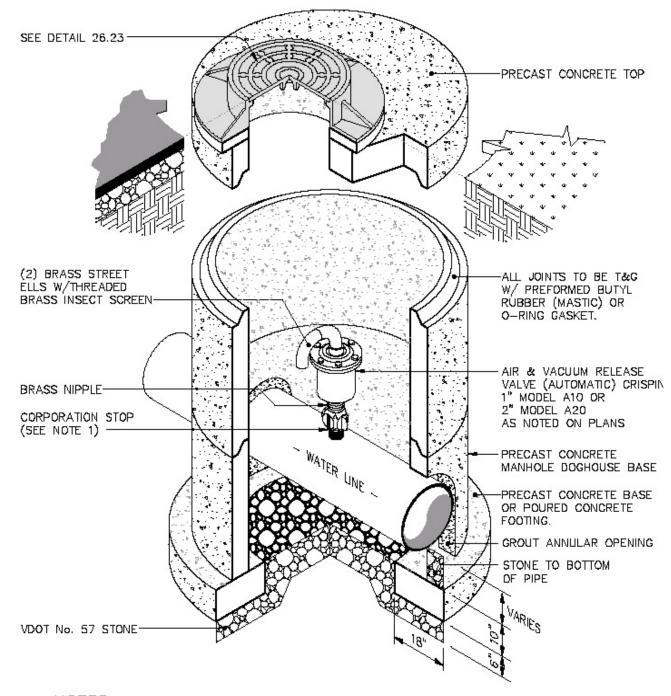


- MEG-A-LUGS MAY BE SUBSTITUTED FOR TIE RODS UPON APPROVAL BY THE CITY FNGINFFR.
- 2. CHAINS ON FIRE HYDRANTS TO BE REMOVED.
- HYDRANTS TO BE PLACED WITH PUMPER NOZZLE FACING THE STREET OR AS OTHERWISE DIRECTED.
- 4. WHEN VALVE BOX IS PLACED OUTSIDE OF PAVEMENT, PROVIDE PRECAST SHOULDER SLAB. (DFTAIL 26.18)
- 5. WHEN FIRE HYDRANTS ARE INSTALLED WHERE ROADWAY HAS A DRAINAGE DITCH AND NO CURB & GUTTER, MINUMUM COVER SHALL BE 24" FROM THE BOTTOM OF DITCH.
- SET TIE ROD CHART (DETAIL 26.03) FOR NUMBER OF RODS REQUIRED.
- 7. WHERE HYDRANT IS SET BEHIND GUARDRAIL, CENTERLINE OF PUMPER NOTTLE TO BE A MINIMUM OF 12" AND A MAXIMUM OF 18" ABOVE TOP OF GUARDRAIL.

Operations Division	TYPICAL FIRE HYDRANT CONNECTION DETAIL	
HEEA .	Adopted: 01/13/2008	Approved:
HC5A SHalifax County Service Authority	Revised:	Detail Number: WATER - 11

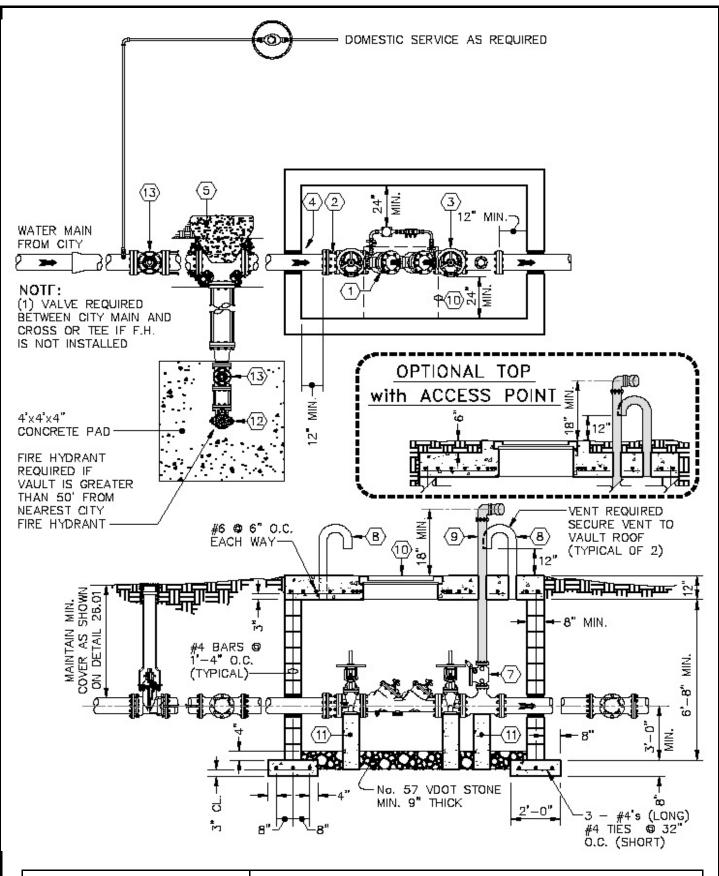


Operations Division	BLOW-OFF ASSEMBLY DETAIL	
HCSA 🗇	Adopted: 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 12

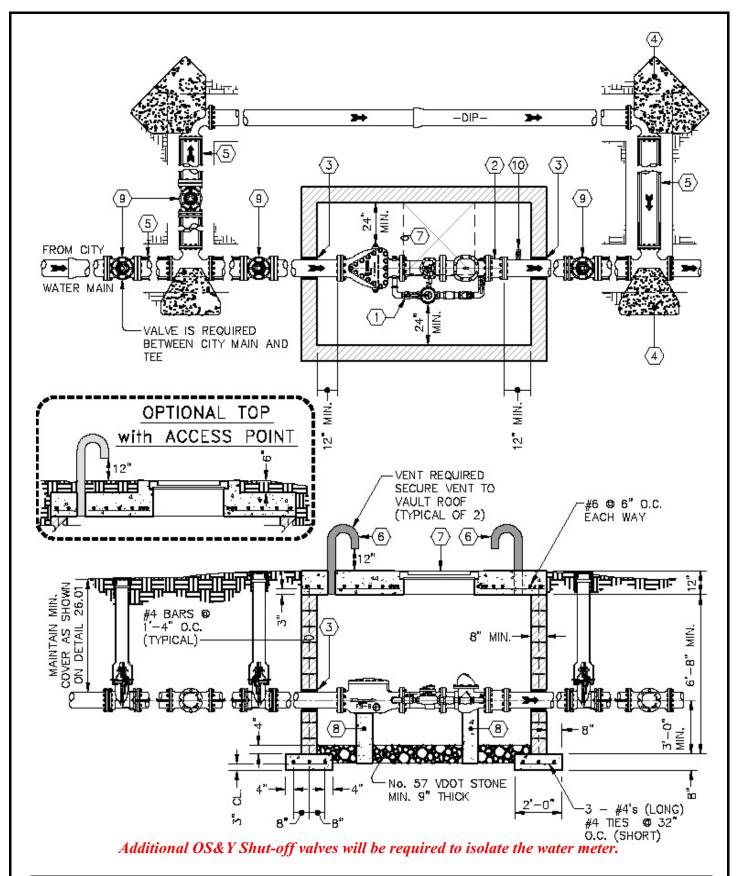


- 1. DO NOT FXCFFD ALLOWABLE DIRECT TAP ALLOWED BY PIPE MANUFACTURER. OTHERWISE, USE DOUBLE STRAP SERVICE SADDLE FOR 2" AIR RELEASE.
- 2. CONF SECTION MAY BE SUBSTITUTED FOR FLAT TOP ACCORDING TO DEPTH.

Operations Division	AIR & VACUUM RELIEF VALVE IN PRECAST MANHOLE	
HC5A 🔝	Adopted: 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 13



Operations Division	FIRE LINE DOUBLE DETECTOR CHECK VALVE DETAIL	
HCSA 🗇	Adopted: 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 14

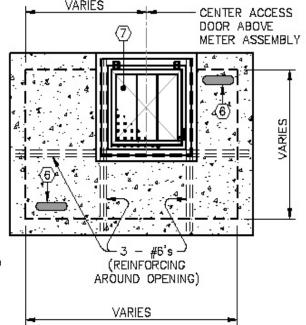


Operations Division	TURBO METER VAULT DETAIL	
HCSA 🗇	Adopted: 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 15

LEGEND

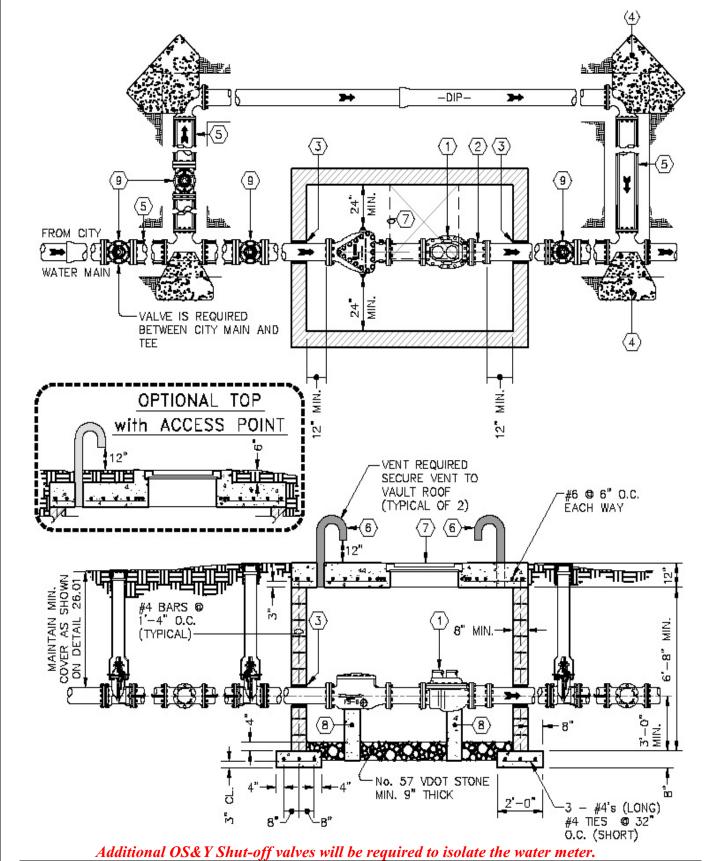
- 1 TURBO METER ASSEMBLY AND BY-PASS METER. METER TO READ IN CUBIC FEET.
- ② DUCTILE IRON FLANGED ADAPTER (DRESSER #127 OR APPROVED EQUAL).
- WALL SLEEVE WITH LINK SEAL OR APPROVED EQUAL.
- (4) ANCHOR BLOCKING SEE STANDARD DETAIL 26.02.
- (5) TIE ROD ANCHORS SEE STANDARD DETAIL 26.03.
- 4" DIAMETER STEEL VENT PIPE WITH BRASS INSECT SCREEN OVER OUTSIDE END. (STYLE EITHER 180' BEND OR MUSHROOM) (2 REQUIRED)
- 36" X 36" ALUMINUM ACCESS HATCH BILCO MODEL "J—4AL" OR APPROVED EQUAL.
- (8) CONCRETE SUPPORTS
- (9) AWWA C-509 RESILIENT WEDGE GATE VALVE.
- (10) 2" TEST PLUG.



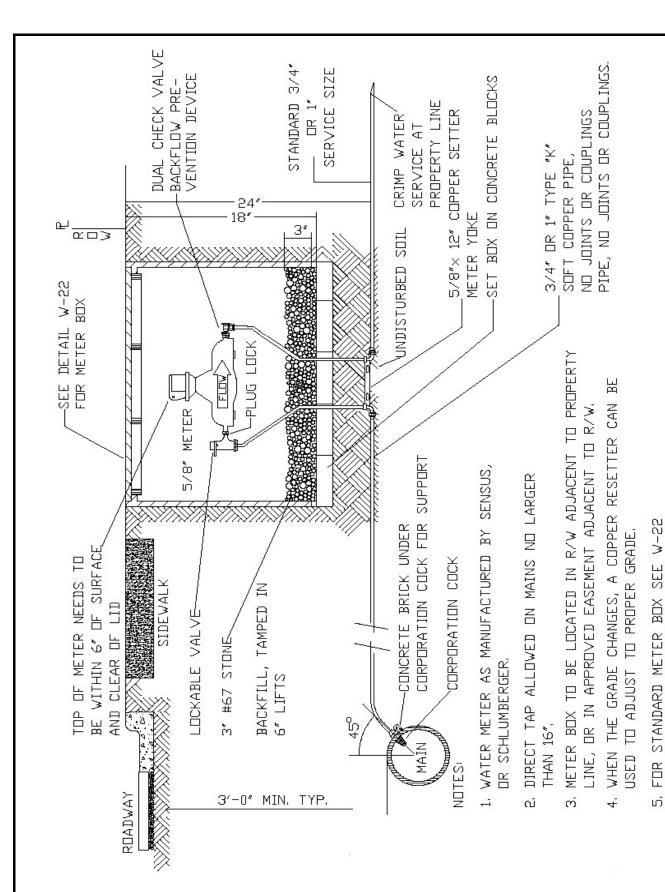


- THESE DRAWINGS ARE APPROVED STANDARDS FOR THE INSTALLATION OF LARGE WATER METERS AND THE CONSTRUCTION OF C.M.U. VAULTS. ANY DEVIATIONS FROM THESE STANDARDS SHALL BE REVIEWED AND APPROVED BY THE CITY ENGINEER. NOTE MINIMUM CLEARANCE DIMENSIONS.
- 2. ALL PIPE AND FITTINGS USED INSIDE THE VAULT SHALL BE FLANGED DUCTILE IRON.
- 3. CONCRETE FOR SUPPORTS AND ANCHORS SHALL BE 3000 P.S.I.
- ALL NON-FLANGED FITTINGS SHALL BE TIED WITH THREADED ROD TO ADJACENT FITTINGS AS GENERALLY SHOWN ON THIS SHEET. MEGALUG OR APPROVED EQUAL MAY BE SUBSTITUTED FOR TIE RODS AT MECHANICAL JOINTS.
- TURBO METER ASSEMBLY SHALL BE ADEQUATELY SUPPORTED BY TWO POURED CONCRETE SUPPORTS SET ON UNDISTURBED EARTH.
- 6. ALL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR.
- 7. WALL SLEEVES SHALL BE SUFFICIENT IN SIZE TO ACCOMMODATE PIPE AND PENETRATION SEAL. SEAL SHALL BE LINK SEAL OR APPROVED EQUAL.
- 8. VAULT IS NOT DESIGNED TO SUPPORT VEHICULAR TRAFFIC. IF VEHICULAR TRAFFIC MUST PASS OVER VAULT, THE VAULT SHALL BE DESIGNED FOR TRAFFIC LOADING BY A LICENSED ENGINEER.
- 9. WALLS ARE TO BE CONSTRUCTED OF CONCRETE MASONRY UNITS (C.M.U.) MEETING REQUIREMENTS OF ASTM C-139. MORTAR JOINTS ON INTERIOR TO BE FINISHED FLUSH AND MAY BE LEFT EXTRUDED ON EXTERIOR FACES TO BE UNDERGROUND. C.M.U. TO BE COMPLETELY FILLED WITH GROUT AFTER WALLS ARE COMPLETED AND ALL REINFORCING STEEL IS IN PLACE. GROUT SHALL CONSIST OF ONE PART PORTLAND CEMENT FOR 3 PARTS SAND, THOROUGHLY MIXED WITH WATER TO PRODUCE GROUT HAVING A THICK CREAMY CONSISTENCY.
- 10. THE CONTRACTOR MAY SUBSTITUTE A PRE CAST OR CAST—IN—PLACE VAULT. BASIC REQUIREMENTS WOULD BE THAT IT MEET THE MINIMUM DIMENSIONS. AS SHOWN ON THE DRAWING.
- DEFORMED REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60. ALL REINFORCING BAR DIMENSIONS ON THIS DRAWING ARE TO CENTER OF BARS.
- 12. AS AN OPTION, THE FLOOR OF VAULT CAN BE POURED WITH 4" MIN. OF 3000 PSI CONCRETE WITH FLOOR DRAIN INSTALLED TO DAYLIGHT.
- 13. ONE ACCESS DOOR KEY SHALL BE SUBMITTED TO THE UTILITIES METER SUPERVISOR.

Operations Division	TURBO METER VAULT DETAIL	
HC5A 🗇	Adopted: 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 16



Ope	rations Division	COMPOUND METER VAULT DETAIL	
HCSA -	Adopted: 01/13/2008	Approved:	
	x County Service Authority	Revised:	Detail Number: WATER - 17



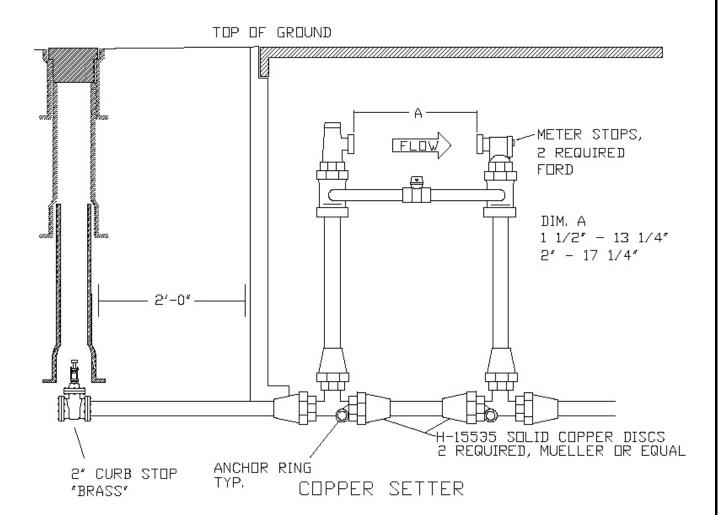
REQUIRED IF USED ON MORE THAN TWO RESIDENTIAL UNITS.

ADDITIONAL BACKFLOW PREVENTION DEVICE MAY BE

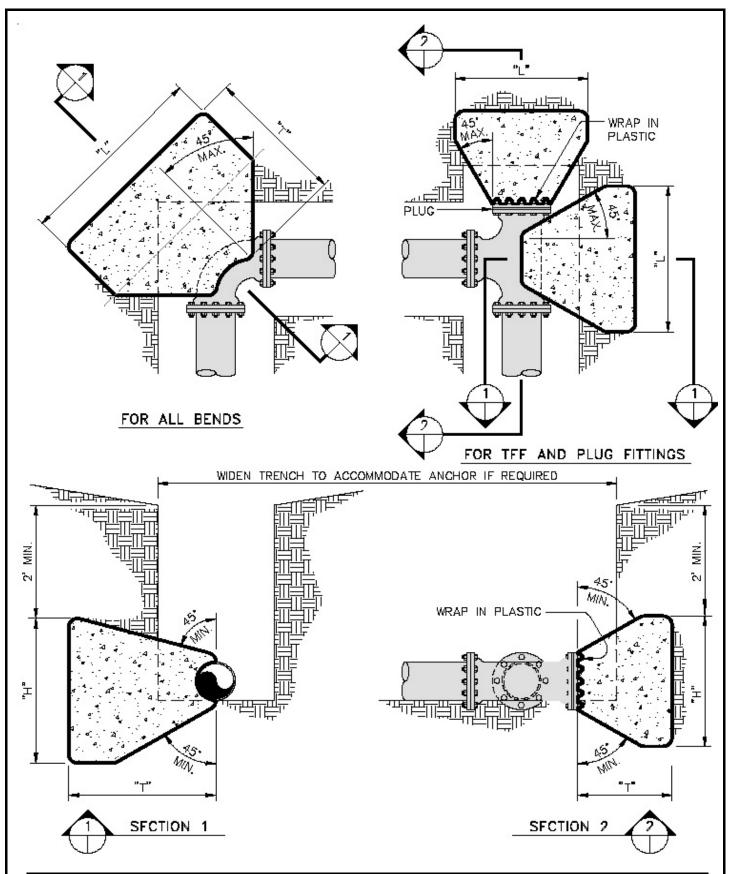
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Operations Division	3/4" & 1" WATER SERVICE INSTALLATION DETAIL	
HC5A -	Adopted : 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 18

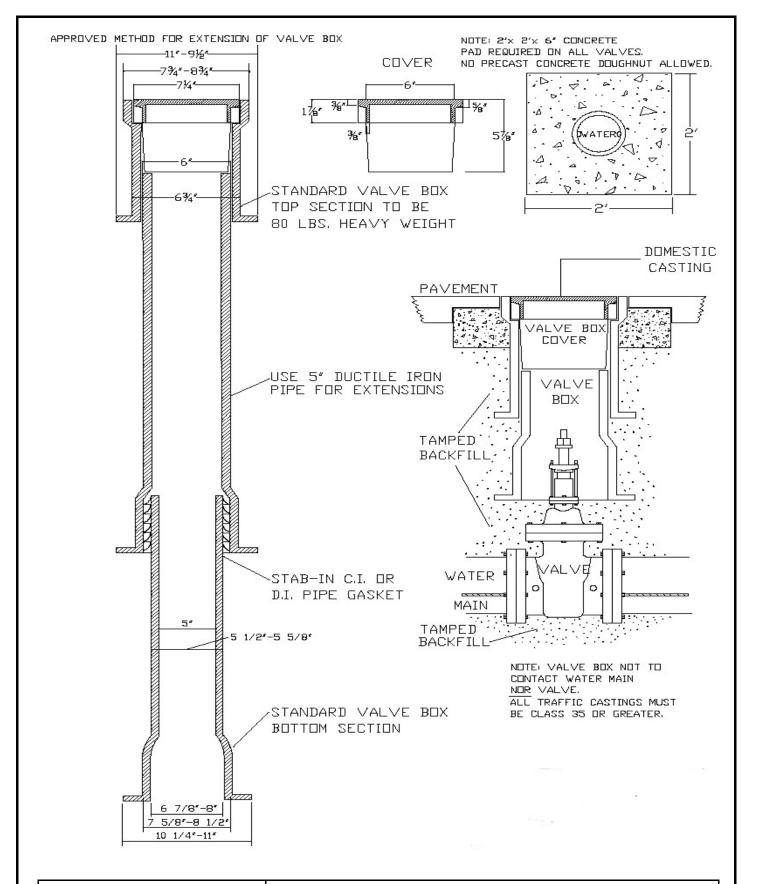
- 1. METER AS MANUFACTURED BY SENSUS OR SCHLUMBERGER.
- 2. TEES SHALL BE MALLEABLE BRASS, FLARED FITTINGS.
- 3. BACKFILL TAMPED IN 6" LIFTS.
- 4. 4" MIN. AND 12" MAX. VERTICAL CLEARANCE FROM TOP OF METER TO BOTTOM OF METER BOX COVER 4" OF 67 STONE IN BOTTOM OF METER BOX.
- 5. FOR 1 1/2" AND 2" WATER METER BOX INSTALLATIONS, USE CB-SO-4 FRAME AND COVER.
- 6. OPENING SIZES: 1 1/2" TO HAVE 13 1/4" FLANGE, 2" SERVICE TO HAVE 17 1/4" FLANGE.
- 7. COMPARABLE YOKES WITH HIGH RISE BYPASS AS MANUFACTURED BY FORD, MUELLER, AND A.Y. MCDONALD MUST BE USED.
- 8. METER BOX FOR 1 1/2" AND 2" METER TO BE CBS05 FRAME AND LID.



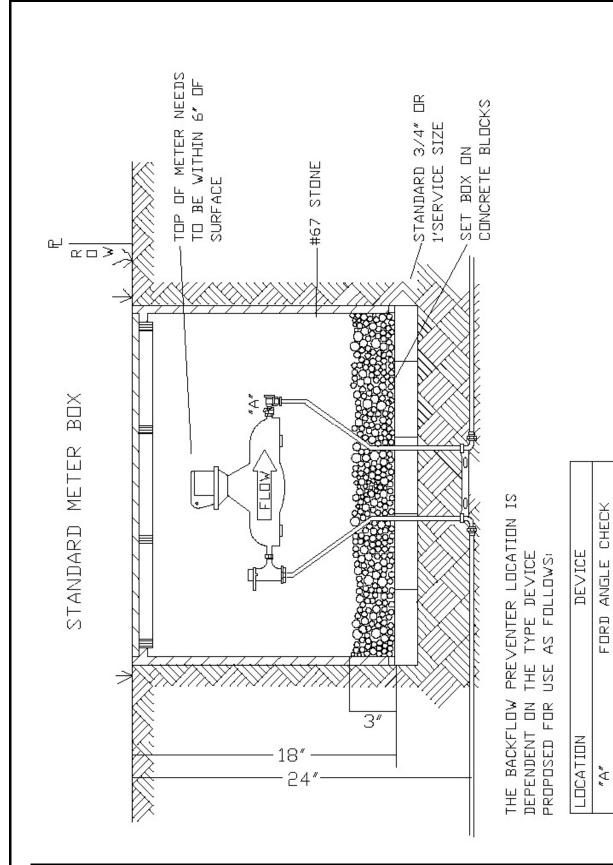
Operations Division	1 1/2" THRU 2" WATER SERVICE INSTALLATION DETAIL	
HCSA 🔝	Adopted: 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 19



Operations Division	TYPE "F" HORIZONTAL BLOCKING ANCHOR DETAIL	
HCSA 🔝	Adopted: 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 02



Operations Division	VALVE BOX INSTALLATION AND EXTENSION DETAIL			
HCSA 🗇	Adopted: 01/13/2008	Approved:		
Halifax County Service Authority	Revised:	Detail Number: WATER - 20		



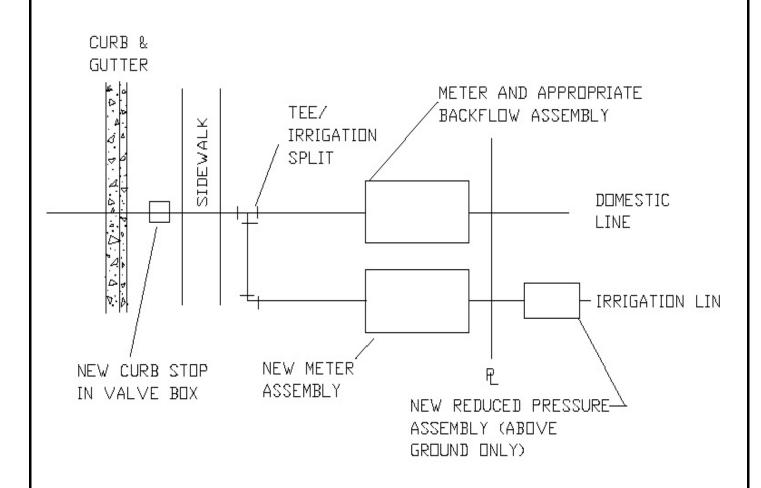
Operations Division	RESIDENTIAL NEW CONSTRUCTION METER BOX		
HCSA -	Adopted: 01/13/2001	Approved:	
Halifax County Service Authority	Revised:	Detail Number: WATER - 21	

(VHH-71-12W FDR 3/4*)

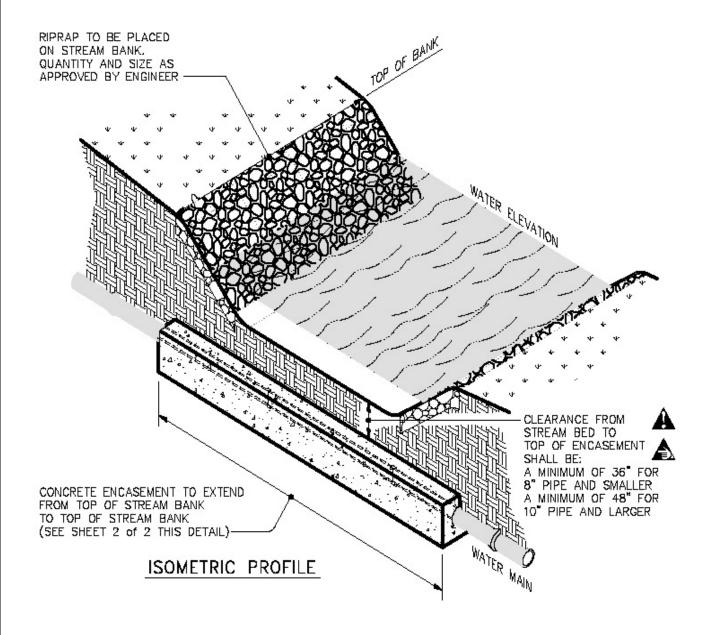
(VHH-74-12W FDR 1°)

MAY NEED ADDITIONAL BACKFLOW PREVENTION DEVICES IF USED ON MORE THAN TWO RESIDENTIAL UNITS.

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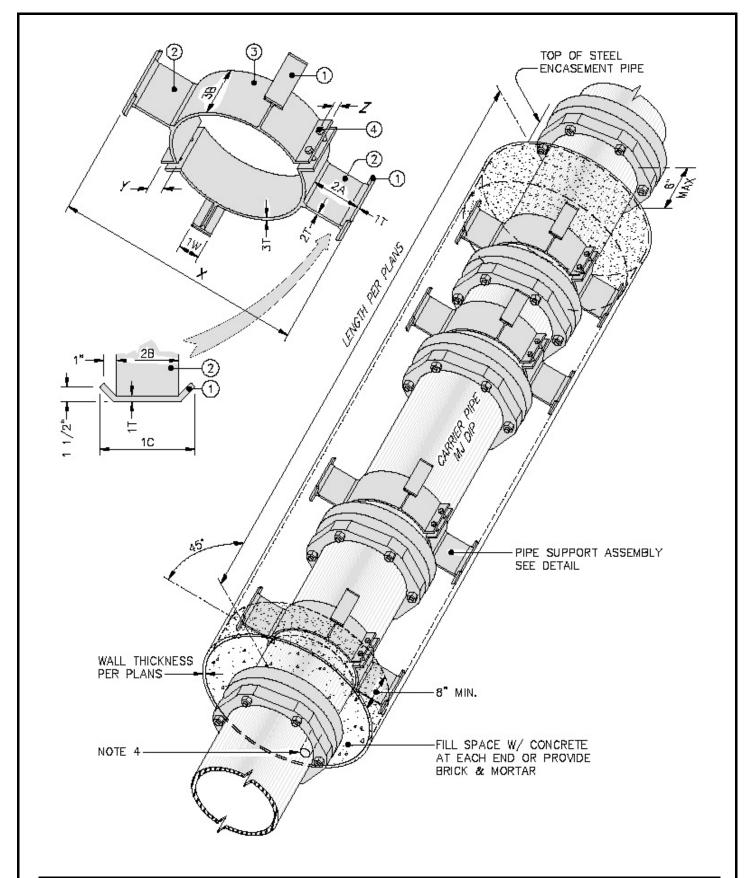


Operations Division	IRRIGATION TAP EXISTING SERVICE DETAIL			
HCSA 🔝	Adopted: 01/13/2008	Approved:		
Halifax County Service Authority	Revised:	Detail Number: WATER - 22		

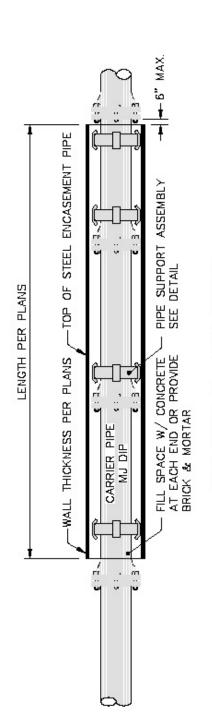


- 1. CONCRETE TO BE 3000 PSI.
- 2. ENCASEMENT TO BE USED ONLY WHERE SPECIFIED ON PLANS.
- 3. PIPE SHALL BE DUCTILE IRON PIPE.
- 4. FILTER FABRIC TO BE PLACED UNDER RIP-RAP AND KEYED INTO EMBANKMENT.

Operations Division	WATER LINE CROSSING BENEATH STREAM BED				
HCSA 🗇	Adopted: 01/13/2003	Approved:			
Halifax County Service Authority	Revised:	Detail Number: WATER - 23			



Operations Division	STEEL ENCASEMENT PIF	PE DETAIL
HC5A 🏈	Adopted: 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 24



ENCASEMENT PIPE DETAIL

_						•	•			_	_	•
U N	NS	7	7	3/4"	3/4"	.8/8 1	.8/£ 1	,8/£ l	.8/£ l	.,8/€ 1	1 3/8"	1 3/8"
SNOISHERIO		>		1 7/8"	1 7/8	3,		3.	Į,	3"		
		٨	<	10.40" 1 7/8"		22.10"	22.20"	22,30"	27.40	27.50"	39.30"	39.00"
				REQ'D	REQ'D	REQ'D		REQ'D	REQ'D	REQ'D	REQ'D	REQ'D
MARK	MULI	4	٢	1/2" DIA. 1 REQ'D	1/2 DIA. 1 REQ'D 14.05	1/2" DIA. 1 REQ'D	1/2" DIA, 1 REQ'D	1/2" DIA. 1 REQ'D	3/4" DIA. 1 REQ'D	3/4" DIA. 1 REG'D	1/2" DIA, 2 REQ'D	1/2" DIA. 2 REQ'D
Ξ	2			1/	1/1	1/2	1/2	1/		3/	1/	1
PIPE SIPPORT ASSEMBLY MARK NIIMBER		©	_	3/8"	3/8"	3/8	3/8"	3/8	3/8"	3/8"	1/2"	1/2"
ģ	וויי	_	В	3"	3"	4"	4,	4,,	Б"	Б"	10"	10"
(4559			_	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"
TANGGI		0	٧	1"	1 3/4" 3/8"	4 3/4" 3/8"	3 3/4" 3/8"	2 3/4" 3/8"	4 1/4" 3/8"	3 1/4" 3/8"	10" 5 3/4" 1/2"	10" 2 1/2" 1/2"
Į.	7		æ	3.	4" 1	4" 4	.,	4" ,	. 9	6"	0,,	0,,
			T	3/8"	3/8"	3/8" 4	3/8"	3/8" 4	3/8" €	3/8"	1/2" 1	1/2" 1
		Θ	3	5,	2	2*	2	2"	'n	, o	*	, 4
L	3		ပ	5,	.9	6"	_9	.9	B.	B.	12"	12"
IPE	HWAY	I IVAN	WALL	.188	" .188"	.188"	.188"	.250"	.250"	.250"	.312	.312"
H .		()		12"	16"		24"	24"	30"	30	42"	42"
CASING P	RAILROAD THICHWAY		V.D. WALL	.251"	,282"	.407" 24	.407" 24" .188"	.407"	.469"	.469"	.563*	.563" 42"
. 2	RAILF	<		12"	16"	.pZ	24"	24"	30°	30.	42,	42"
1 010		ć	. 7.7.	6.90"	9.05	11.10"	13.20"	15.30"	17.40"	19.50"	25.80"	32.00
CAODICO DIOC	שומעני	NOMINAL	DIA.	6"		10,	12"	14"	16"	18"	24"	30,,

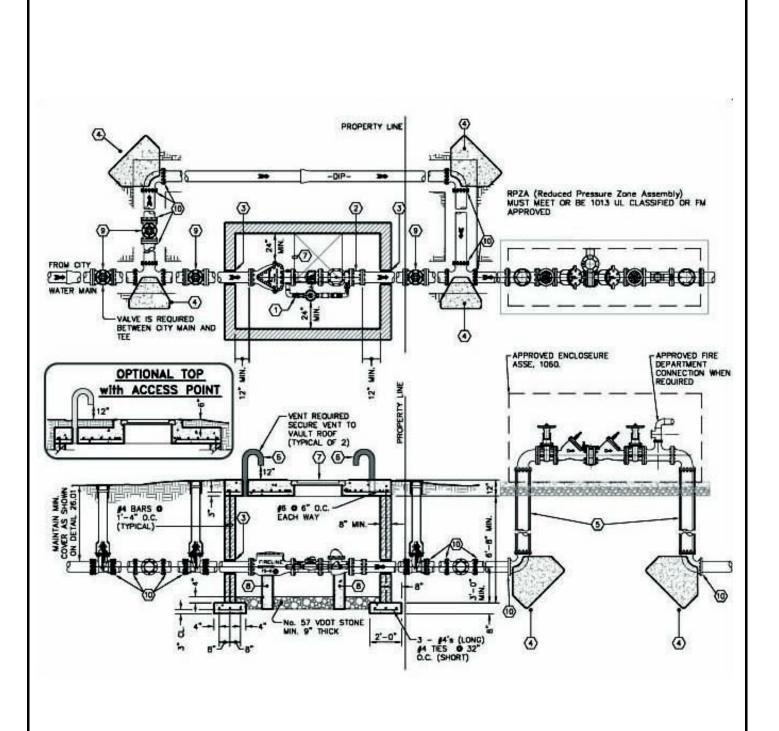
* DIMENSIONS ARE WITHOUT COATINGS

NOTES:

- GREASE ENCASEMENT PIPE AS REQUIRED FOR EASE OF INSTALLATION.
 INSTALLATION BY DRY BORE & JACKING.
 STEEL PIPE TO BE 35,000 PSI MIN. YIELD STRENGTH.
 PROVIDE A 2" DRAIN PIPE FROM CASING PIPE AT DOWNSTREAM INVERT OF CASING PIPE. 4 w 4

DRAIN TO DAYLIGHT OR FRENCH DRAIN.

Operations Division	STEEL ENCASEMENT I	PIPE DETAIL
HC5A 🗇	Adopted: 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 25



Operations Division	TURBO METER VALVE WITH FIRE LINE RPZA				
HCSA 🔝	Adopted: 01/13/2008	Approved:			
Halifax County Service Authority	Revised:	Detail Number: WATER - 26			

	r" HORIZO				DATUM
TYPE FITTING	PIPE SIZE INCHES		ENSIONS (VOL. CONC. CU. YARDS
	TEST PRESS	"L"	"H"	"T"	
11 1/4*	B B	1.5		2.5	0.19
22 1/2	Б	1.5	2 2	2.52	0.19
45° 90°	Б Б	2 2.5	2.25 2.5	2.6 3.01	0.26 0.40
TEE	Б	2	2.25	2.5	0.25
PLUG	Б	2	2.25	2.5	0.25
11 1/4° 22 1/2°	8 8	1.66 1.66	2.16 2.16	2.67	0.23 0.23
45*	8	2.66	2.66	2.69 2.77	0.23 0.41
90' TEE	8 8	3.66 3.16	3.16 2.91	3.21 2.66	0.75 0.50
PLUG	8	3.16	2.91	2.66	0.50
11 1/4"	12	2	2.5	3	0.33
22 1/2 45	12 12 12 12	2.5 4	2.75 3.5	3.02 3.12	0.44 0. 8 7
90.	12	5.5	4.25	3.62	1.63
TEE PLUG	12 12	4.5 4.5	3.75 3.75	3	0.99
	EST PRESSU				100000000000000000000000000000000000000
11 1/4° 22 1/2°	5	1.5 1.5	2 2 2.55	2.5	0.19
45.	6 6 6	2 3	2.55	2.52 2. 6	0.19 0.29
90° TEE	6	3	2.75 2.5	3.01 2.5	0.52 0.34
PLUG	6	2.5 2.5	2.5	2.5	0.34
11 1/4'	a	1.66	2.16	2.67	0.23
22 1/2 45	*****	2.16 3.16	2.41 2.91	2.69 2.77	0.31 0.52
90"	ě	4.16	3.41	3,21	0.90
TEE PLUG	8	3.66 3.66	3.16 3.16	2.66 2.66	0.62 0.62
11 1/4	300	000000	2.5	3	0.33
22 1/2	12 12 12	3	3	3.02	0.56
45' 90"	12 12	4.5 6.5	3.75 4.75	3.12 3.62	1.03 2.14
TEE	12	5.5 5.5	4.25 4.25	3	1.35
PLUG	12 EST PRESSUR				1.35
11 1/4	6	1.5	2	2.5	0.19
22 1/2"	6	1.5	2	2.52 2.6	0.19
45° 90°	6 6	2.5 3.5	2.5 3	3.01	0.35 0.64
TEE PLUG	6 6	3	2.75 2.75	2.5 2.5	0.43 0.43
		4.0000000	36.000000000000	10000000	101110100000
11 1/4° 22 1/2°	8 8	1.66 2.16	2.16 2.41	2.67 2.69	0.23 0.31
45° 90°	8	3.66 4.66	3.16 3.66	2.77 3.21	0. 64 1.07
TEE	B	4.16	3.41	2.66	0.75
PLUG	B	4.16	3.41	2.66	0.75
11 1/4° 22 1/2°	12 12	2.5 3.5	2.75 3.25	3 3.02	0.44 0.69
45	12	5.5	4.25	3.12	1.41
90° TEE	12 12	7.5 6	5.25 4.5	3.62 3	2.71 1.56
PLUG	12	ő	4.5	3	1.56

Operations Division	TYPE "F" HORIZONTAL ANCHOR BLOCKING				
HC5A 🏈	Adopted: 01/13/2008	Approved:			
Halifax County Service Authority	Revised:	Detail Number: WATER - 03			

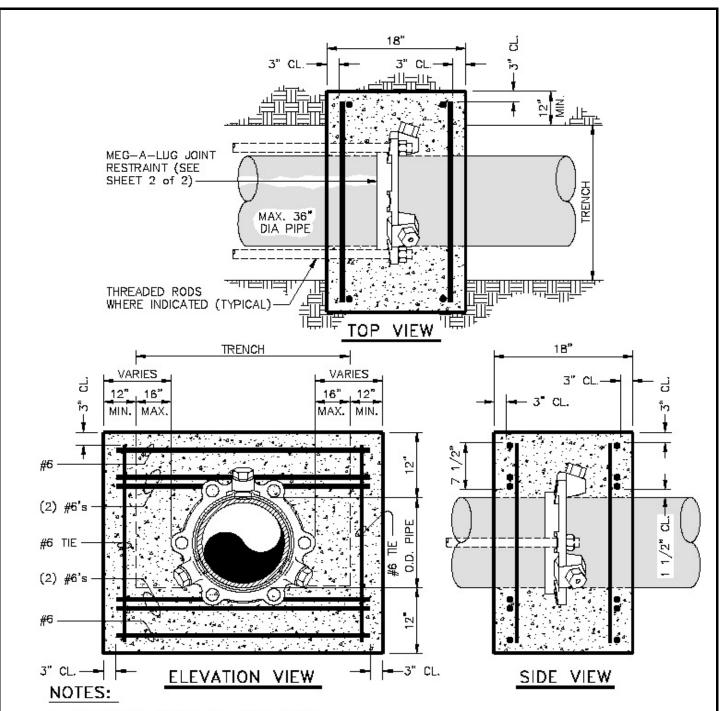
TYPE '	r" HORIZO			222	DATUM
TYPE FITTING	PIPE SIZE INCHES		ENSIONS (VOL. CONC. CU. YARDS
FITTING	250000000000000000000000000000000000000	"L"	" H"	•⊤"	LU. YAKUS
	TEST PRESS				
11 1/4° 22 1/2°	16 16	3 4	2 3	3	0.48 0.93
45"	16 16	6 8	4 5.5	3 3.75	1.81
90°	16	8	5.5	2.67	3.92 3.02
PLUG	16	8	5.5	2.67	3.02
11 1/4	24	4.5	3_	4	1.31
22 1/2° 45°	24 24	6 8.5	4.5 6.25	4	2.56 4.97
90"	24	12	8	4.5	9.84
TEE PLUG	24 24	12 12	8	4 4	8.94 8.94
	TEST PRESSUI		P.S.I. to	200 P.S	
11 1/4	16	3_	2.67	3	0.63
22 1/2 45	16 16	4.5 7.5	3.5 4.25	3	1.20 2.40
9Q*	16	10	5.75	3.75	5.11
TEE PLUG	16 16	10 10	5.75 5.75	5 5	6.46 6.46
11 1/4	24	5	3.5	4	1.68
22 1/2'	24 24	5 7	5 7	4	3.30
45°	24	10 13	10	4 4.5	6.54 13.31
TEE	24 24	13 13	10 10	4.5 4.5	13.31 13.31
PLUG	TEST PRESSUR		29.00		Decktoyteest
11 1/4	16	3.5	3	3	0.81
22 1/2"	15	5.5	3.67	3	1.53
45°	16 16	7.5	5.25 6	3 3.75	2.95 6.38
TEE	16	12 12 12	6	4	6.72
PLUG	16	12	6	4	6.72
11 1/4'	24 24	6	3,75	4	2.14
22 1/2 45	24	8 12	5.5 7.25	4	4.13 8.11
90° TEE	24 24	14 14	11.5 11.5	4 4.75 4.75	17.21 17.21
PLUG	24	14	11.5	4.75	17.21

Operations Division	TYPE "F" HORIZONTAL ANCHOR BLOCKING DETAIL				
HCSA 🔝	Adopted: 01/13/2008	Approved:			
Halifax County Service Authority	Revised:	Detail Number: WATER - 04			

TIE ROD ANCHORS DATUM		
PIPC	ROD	NUMBER OF
SIZE	DIAMETER	A307 RODS
(INCHES)	(INCHES)	REQUIRED
TFST PRFSSI	JRF = 150 P.S	.l. & BFLOW
6	3/4	2
8	3/4	2
10	3/4	2 4
12	3/4	4
16	3/4 3/4	6
20	3/4	8
24	1	8
30	1	10
TEST PRESSU	RF = 151 P.S.	l. to 200 PSI
6	3/4	2
8	3/4	2
10	3/4	4 6
1 <i>2</i>	3/4	6
16	3/4 3/4 3/4 3/4	8
20	3/4	12
74	1	10
30	1	14
TEST PRESSUR		to 250 P.S.I.
6	3/4	4
8	3/4	4
10	3/4	4
1 <i>2</i>	3/4 3/4	6
16	3/4	12
20	3/4	14
24	1	16
30	1	20

TIE RODS SHALL BE A307 CADMIUM COATED TIE RODS.

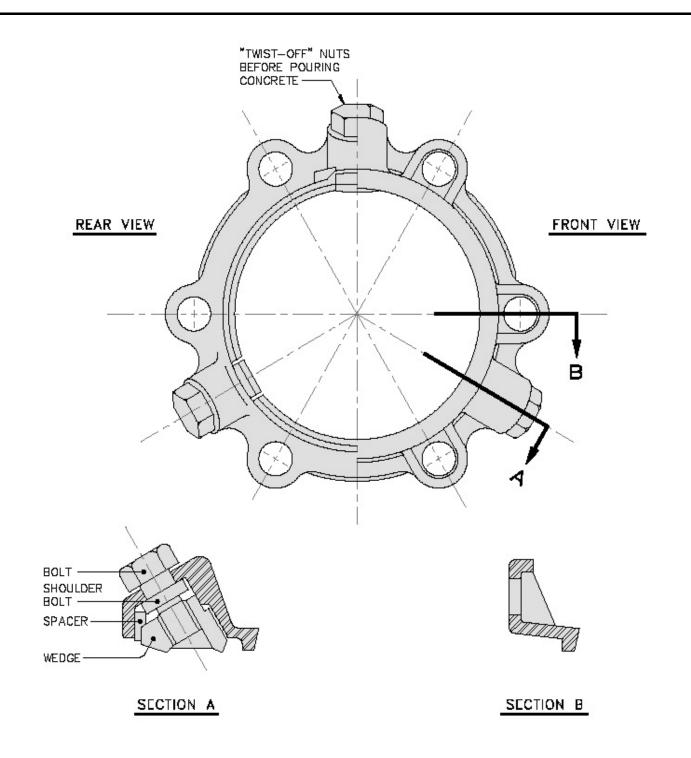
Operations Division	TIE ROD ANCHORS DATUM DETAIL	
HCSA 🔝	Adopted: 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 05



- 1. CONCRETE SHALL BE 3000 P.S.I.
- 2. REINFORCING BARS SHALL BE DEFORMED, AND TIED TOGETHER.
- 3. TRENCH BOTTOM WIDTH IN VICINITY OF THRUST BLOCK(S) INSTALLATION SHALL BE THE MINIMUM WIDTH.
 4. BACKFILL AND COMPACT IN 6" LAYERS.
- 5. PLACE THRUST COLLAR ON ONE FULL JOINT OF PIPE.
- 6. LAST JOINT OF PIPE WITH THRUST COLLAR TO BE MECHANICAL JOINT PIPE.
- 7. PLACE MEG-A-LUG 4' FROM PLUG END OF PIPE.

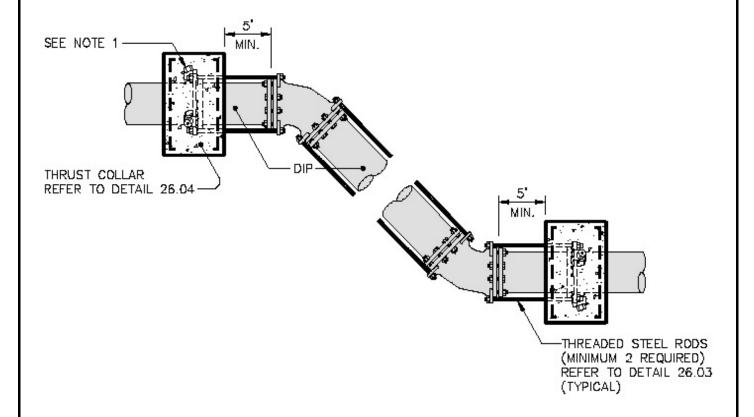
* GRIP-RINGS will be used on AWWA C900, and not be used on AWWA C909-02 (molecular oriented PVC) pipe applications.

Operations Division	THRUST COLLAR & BLOCKING DETAIL	
HCSA 🔝	Adopted: 01/13/2008	Approved:
Halifax County Service Authority	Revised:	Detail Number: WATER - 06



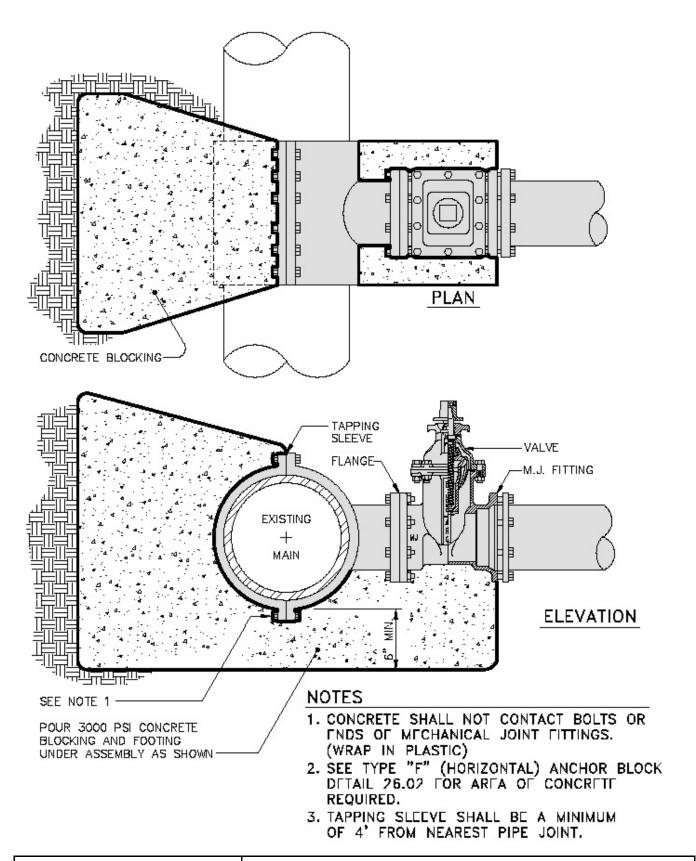
A "MEGALUG" SERIES 1100 MECHANICAL JOINT RESTRAINT SHALL BE PLACED ON DIP. CONCRETE & REINFORCEMENT STEEL SHALL ALSO BE AS SHEET 1 of 2.

Operations Division	MEG-A-LUG THRUST RING DETAIL	
HC5A SHalifax County Service Authority	Adopted: 01/13/2008	Approved:
	Revised:	Detail Number: WATER - 07



1. MEG-A-LUG JOINT RESTRAINT SHALL BE USED.

Operations Division	VERTICAL BEND IN WATER LINE DETAIL	
Halifay County Son ion Authority	Adopted: 01/13/2008	Approved:
	Detail Number: WATER - 08	



Operations Division	TAPPING SLEEVE AND VALVE DETAIL	
HC5A SHalifax County Service Authority	Adopted : 01/13/2009	Approved:
	Revised:	Detail Number: WATER - 09