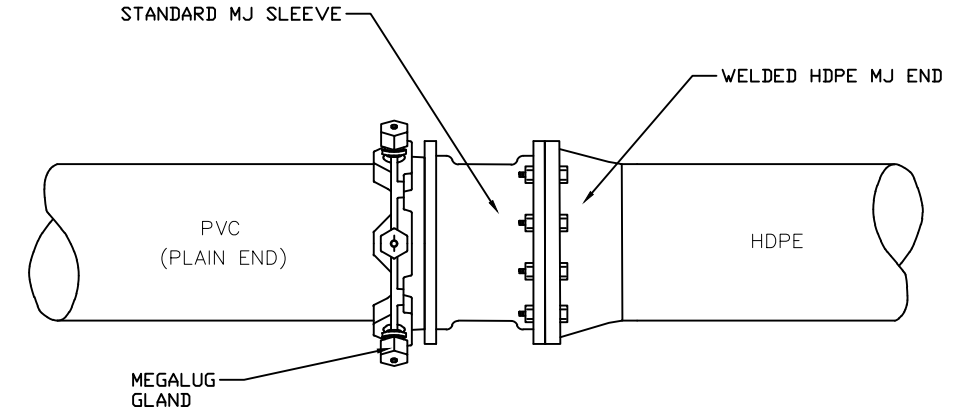
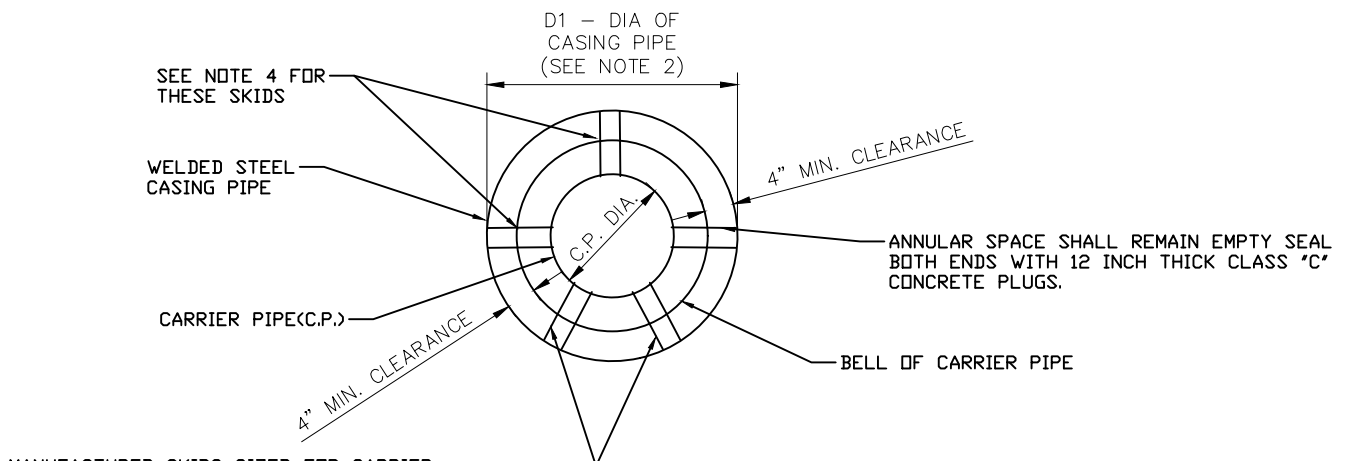


1 HDPE TO PVC TRANSITION (UP TO 2" DIAMETER) N.T.S.



2 HDPE-TO-PVC CONNECTION (3" PIPE AND LARGER) N.T.S.

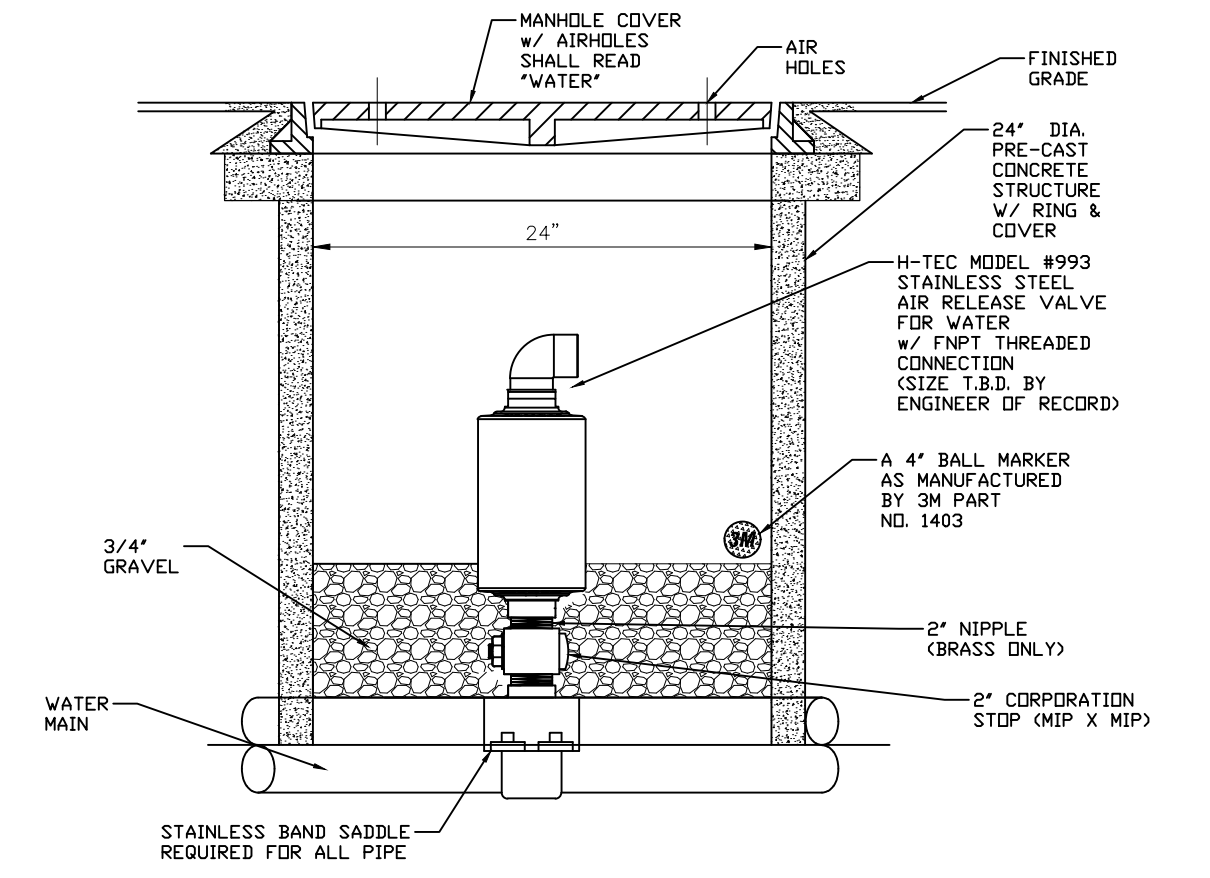


6 TYPICAL CASING DETAIL N.T.S.

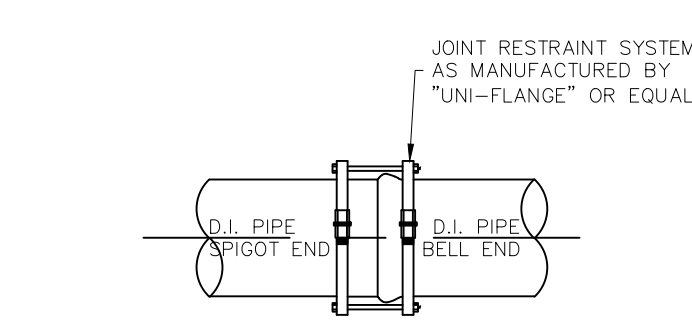
CARRIER PIPE NOM. DIA. (D2)	CASING PIPE SIZES (MIN.)											
	4"	6"	8"	10"	12"	14"	16"	18"	22"	24"	30"	36"
CASING PIPE NOM. DIA. (D1)	8"	12"	16"	22"	24"	30"	30"	30"	36"	36"	48"	60"
HWY X-ING WALL THK.-INCHES	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.250	0.375	0.500

- NOTES:
- MIN. COVER TO TOP OF CASING SHALL BE 36".
 - THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE 4" GREATER THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE BELL OR COUPLING.
 - ALL JACK AND BORE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION UTILITY ACCOMMODATION MANUAL, LATEST EDITION.
 - SKIDS SHALL BE SECURED TO THE CARRIER PIPE AS PER MANUFACTURER'S RECOMMENDATIONS. (MINIMUM OF 3 SKIDS PER PIPE JOINT.)
 - ROTATION OF CARRIER PIPE INSIDE THE CASING PIPE WILL NOT BE PERMITTED. ALL JOINTS WITHIN THE CASING SHALL HAVE JOINT RESTRAINTS INSTALLED.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWING OF CASING AND CARRIER PIPE INSTALLATION FOR APPROVAL PRIOR TO PURCHASING MATERIALS.
 - CASING SHALL EXTEND A MINIMUM OF 8 FEET PAST EDGE OF PAVEMENT.

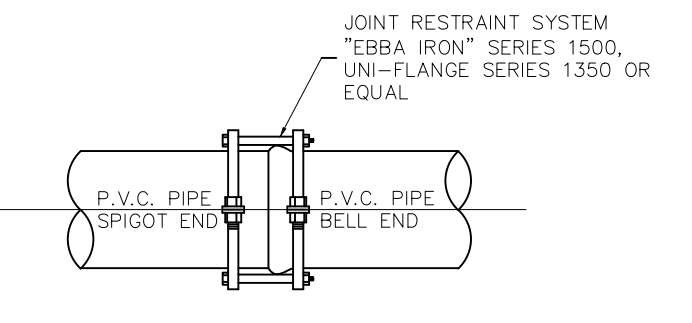
WATER MAIN CROSSING FOR ROADWAYS



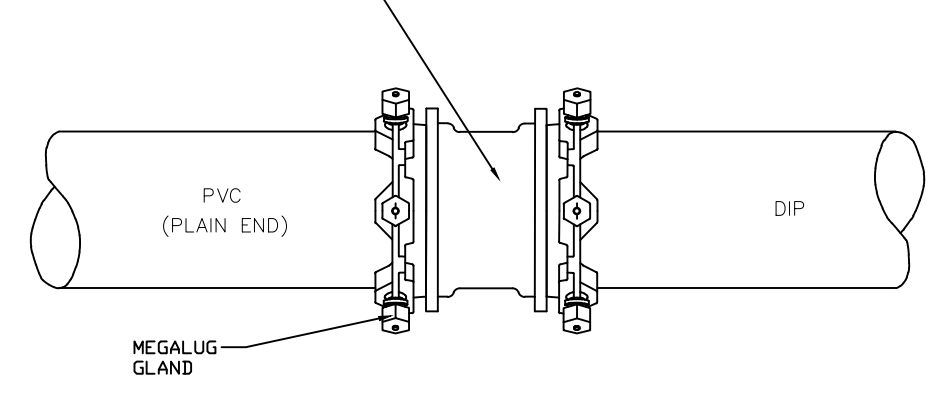
7 H-TEC 2-INCH AUTOMATIC AIR RELEASE VALVE MODEL #993 STAINLESS STEEL N.T.S.



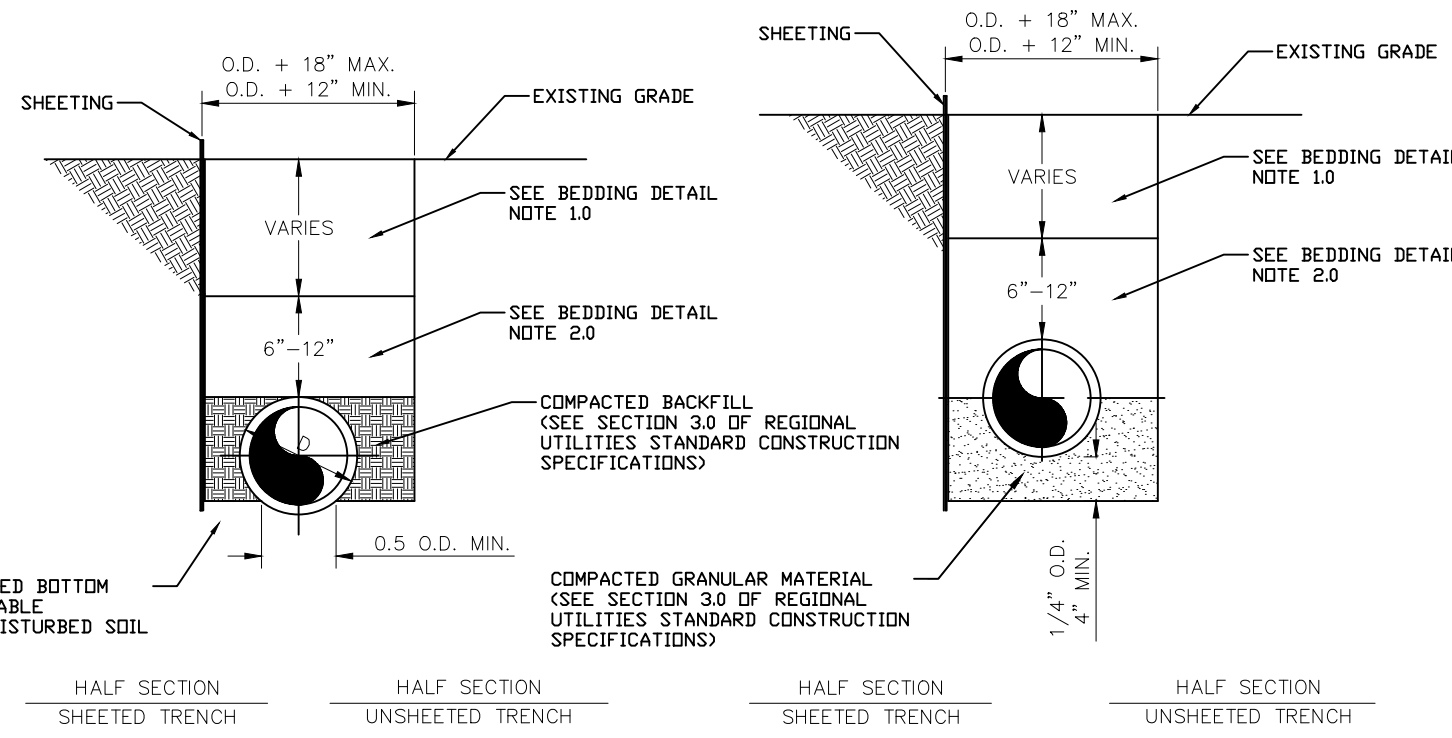
3 TYPICAL RESTRAINED D.I. TO D.I. JOINT N.T.S.



4 TYPICAL RESTRAINED P.V.C. JOINT N.T.S.



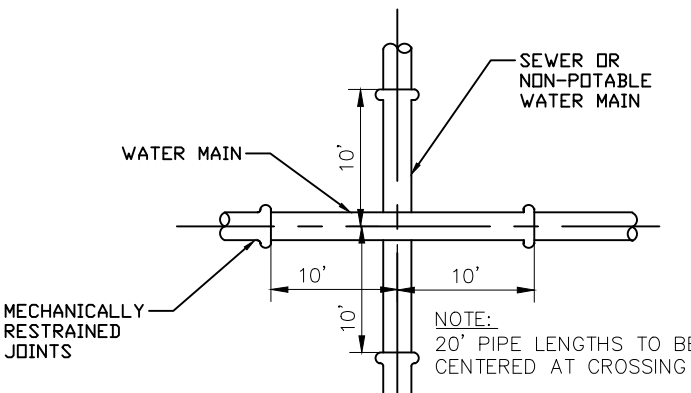
5 TYPICAL RESTRAINED CAST IRON/DUCTILE IRON TO P.V.C. JOINT N.T.S.



8 TYPICAL BEDDING DETAIL N.T.S.

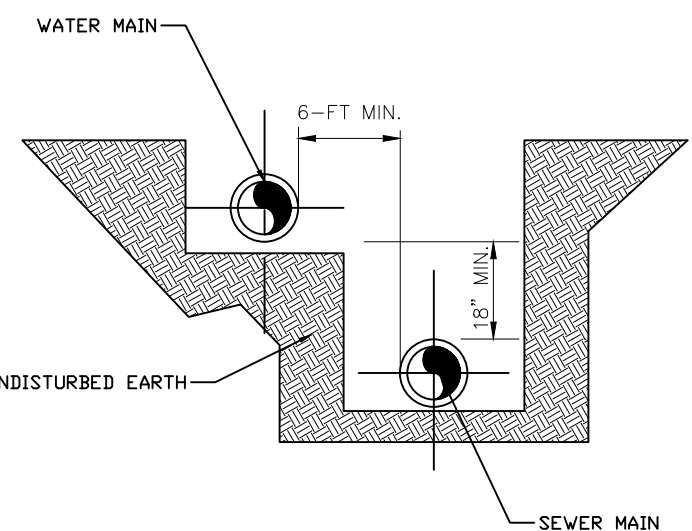
BEDDING DETAIL NOTES:

- THE BACKFILL TO A POINT TWELVE (12) INCHES ABOVE THE PIPE SHALL BE PLACED BY HAND AND SHALL BE CAREFULLY SELECTED MATERIAL, FREE FROM ROCKS, BOULDERS, CLDS, ORGANIC MATERIAL, OR OTHER DEBRIS AND LIGHTLY COMPACTED PRIOR TO PLACING REMAINING BACKFILL. THE BALANCE OF THE BACKFILL MAY BE PLACED IN THE DITCH BY HAND OR BY MECHANICAL EQUIPMENT. NO BACKFILL SHALL BE DROPPED DIRECTLY ONTO EXPOSED PIPE.
- CONTRACTOR SHALL EMPLOY AN EXCAVATOR-MOUNTED TRENCH ROLLER OR OTHER MECHANICAL COMPACTION EQUIPMENT TO PROVIDE BACKFILL DENSITIES OF 95% OR GREATER AT 42% OPTIMUM MOISTURE CONTENT. SURFACE FLOODING AND WATER JETTING OF BACKFILL SHALL NOT BE PERMITTED FOR BACKFILL CONSOLIDATION.
- ALL BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 3.0 OF REGIONAL UTILITIES CONSTRUCTION SPECIFICATIONS.
- PIPE COVER SHALL NOT BE LESS THAN 36 INCHES, NOR GREATER THAN 48 INCHES EXCEPT WHERE SPECIFICALLY SHOWN ON THE CONSTRUCTION DRAWINGS AND APPROVED BY REGIONAL UTILITIES.



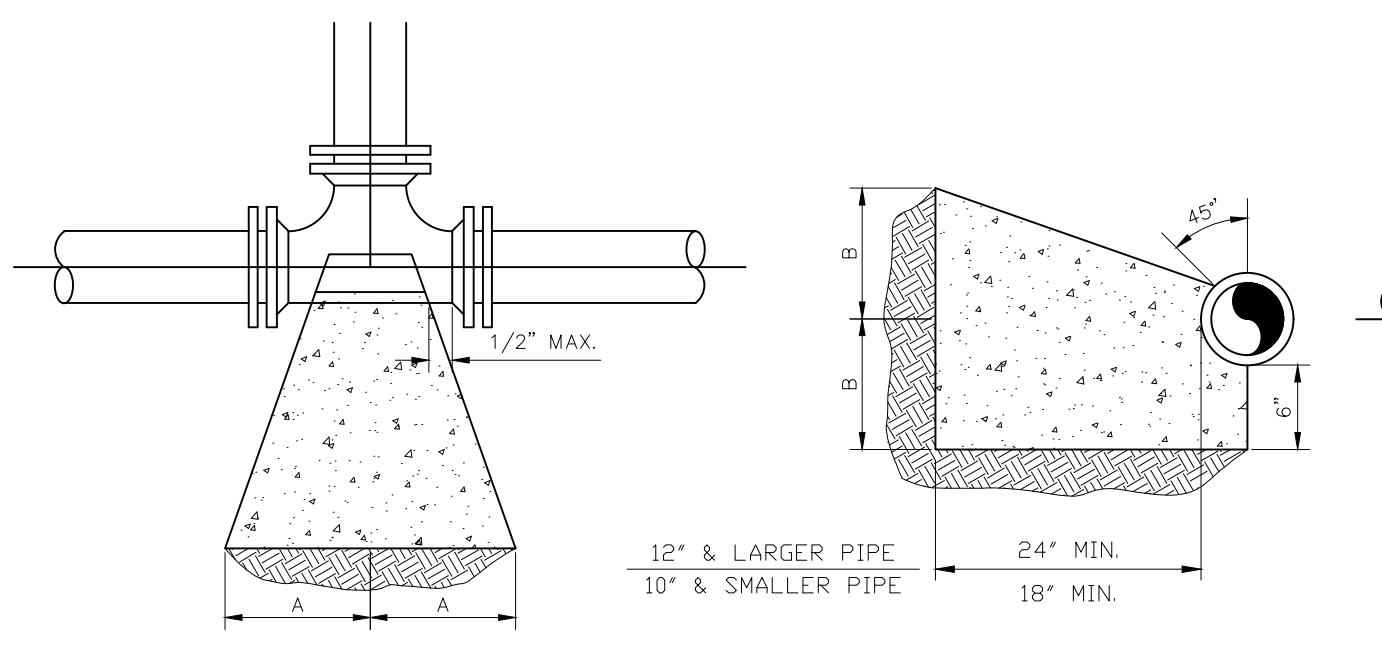
- NOTES:
- WHERE A 18 INCH VERTICAL SEPARATION DISTANCE CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND A SEWER MAIN OR NON-POTABLE WATER MAIN CROSSING THEN THE WATER MAIN SHALL PASS OVER THE SEWER MAIN OR NON-POTABLE WATER MAIN WITH A MINIMUM VERTICAL CLEARANCE OF 12 INCHES. THE SEWER OR NON-POTABLE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASUREMENT CENTERED ON THE POINT OF CROSSING AND THE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASUREMENT CENTERED ON THE POINT OF CROSSING. CONCRETE ENCASUREMENT SHALL BE POURED SEPARATELY FOR EACH PIPE.
 - ANYTHING LESS THAN SHOWN MUST BE APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

9 WATER/SEWER CROSSING AND SEPARATION DETAIL N.T.S.



- NOTES:
- WHERE A 10 FOOT PARALLEL SEPARATION CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND A SEWER MAIN OR NON-POTABLE WATER MAIN, THEN THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN OR NON-POTABLE WATER MAIN AND 6 FEET HORIZONTALLY FROM THE EDGE OF THE SEWER MAIN OR NON-POTABLE WATER MAIN.
 - ANYTHING LESS THAN SHOWN MUST BE APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

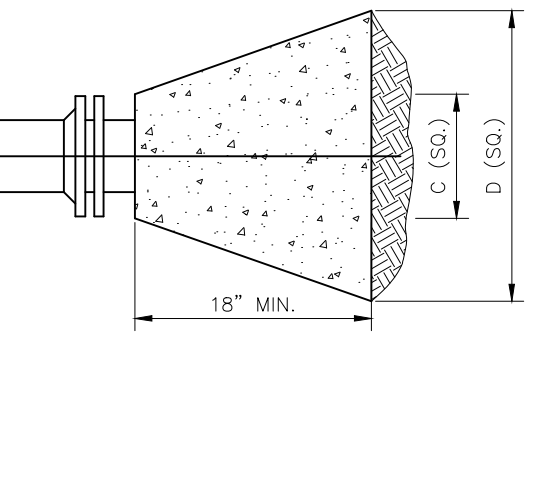
10 VALVE AND BOX DETAIL N.T.S.



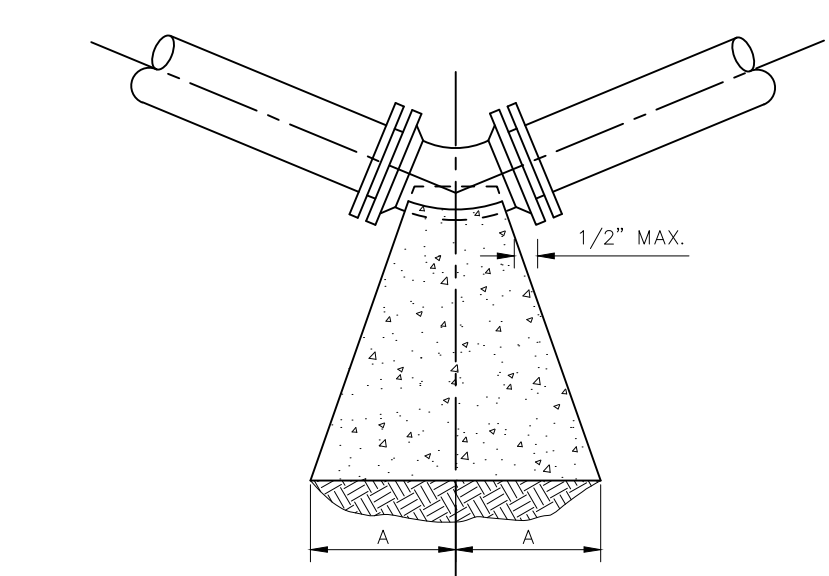
SIZE	TEE		CU. FT.
	A	B	
6"	10"	12"	3.5
8"	13"	16"	5.4
10"	16"	20"	9.4
12"	18"	24"	16.6
14"	22"	27"	23.2
16"	24"	30"	28.6
18"	26"	32"	36.2

- NOTES:
- ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL.
 - THESE TABLES SHOW MINIMUM SIZE THRUST BLOCKS FOR GOOD SOIL (A-1 THROUGH A-3, CLEAN SAND AND GRAVEL).
 - POOR SOIL (A-4 THROUGH A-8, SILTY SOILS, CLAYS, MUCK AND PEAT) WILL REQUIRE LARGER THRUST BLOCKS.

11 THRUST BLOCK DETAIL N.T.S.



SIZE	PLUG		CU. FT.
	C	D	
6"	10"	21"	2.6
8"	12"	29"	4.5
10"	14"	36"	6.9
12"	16"	41"	9.0
14"	18"	48"	12.3
16"	20"	54"	15.2
18"	22"	60"	19.2

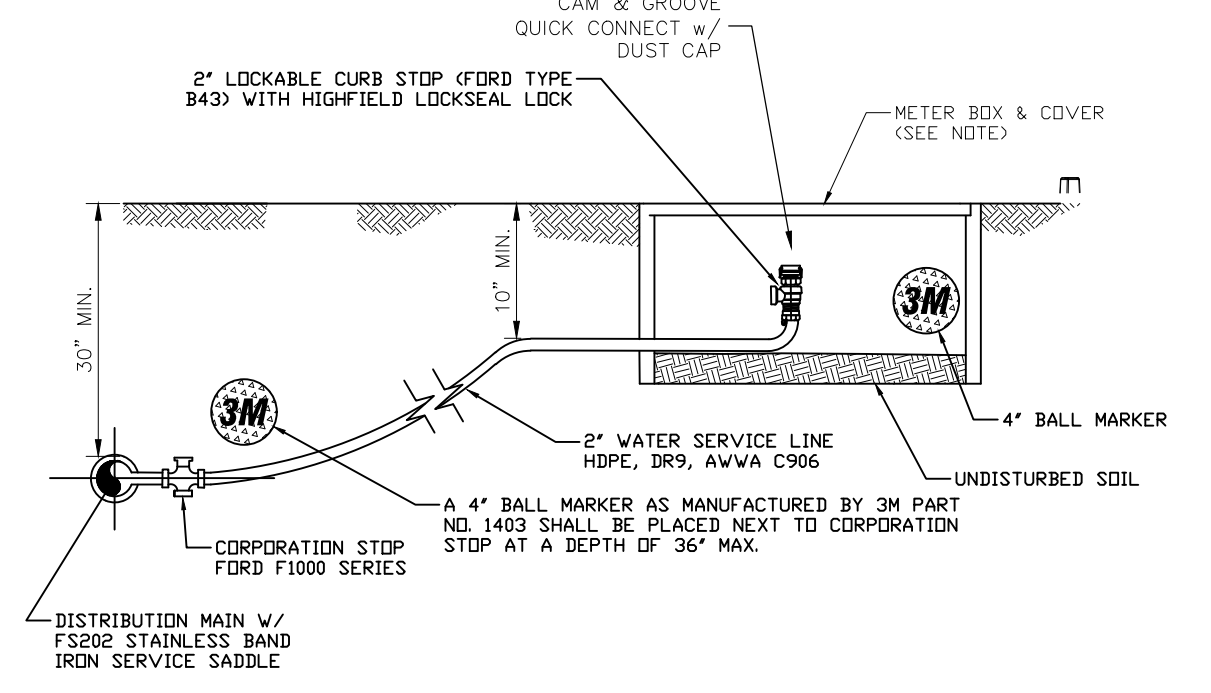


- NOTES:
- ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL.
 - THESE TABLES SHOW MINIMUM SIZE THRUST BLOCKS FOR GOOD SOIL (A-1 THROUGH A-3, CLEAN SAND AND GRAVEL).
 - POOR SOIL (A-4 THROUGH A-8, SILTY SOILS, CLAYS, MUCK AND PEAT) WILL REQUIRE LARGER THRUST BLOCKS.

12 THRUST BLOCK DETAIL N.T.S.

SIZE	1/4 BENDS		1/8 BENDS		1/16 BENDS		CU. FT.		
	A	B	A	B	A	B			
6"	16"	10"	3.2	9"	10"	3.0	6"	8"	1.3
8"	22"	13"	7.2	12"	13"	3.7	8"	10"	2.1
10"	26"	17"	11.5	14"	17"	5.9	10"	13"	3.6
12"	29"	21"	21.1	16"	21"	8.6	11"	16"	6.6
14"	35"	24"	29.8	19"	24"	14.9	12"	20"	8.9
16"	38"	27"	37.8	21"	27"	19.1	12"	24"	11.2
18"	42"	29"	47.8	22"	29"	24.2	13"	26"	14.2

APPROVED FOR 2026

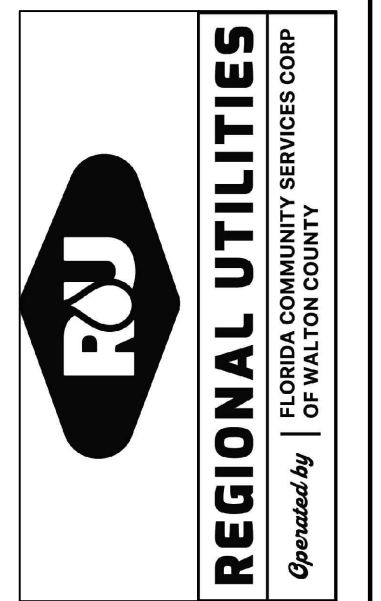


13 BELOW GRADE FLUSH POINT N.T.S.

- NOTES:
- FLUSH POINTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK WITHIN R/W EXCEPT WHERE CONDITIONS AND OR REGULATION PROHIBIT. FLUSH POINTS SHALL BE LOCATED WITHIN RIGHTS OF WAY OR UTILITY EASEMENTS.
 - METER BOX AND COVER SHALL BE TRAFFIC RATED. SEE DETAIL #7 ON SHEET W-2.

NO.	DATE	APPR.	REVISION

4432 HWY 98 EAST
SANTA ROSA BEACH, FL 32459
Phone: (850) 231-5114
WWW.REGIONALUTILITIES.NET



POTABLE WATER STANDARD DETAILS

PROJECT NAME:	
SHEET TITLE:	
SCALE:	
DRAWN BY:	CHECKED BY:
RT	RAD
PROJECT NO.:	
WORK ORDER:	
DRAWING SCALE:	
PLOT DATE:	
SHEET NO. OF	
SHEET	

W-3