



**City of Aberdeen
Department of Public Works**

August 17, 2026

TO: GENERAL PUBLIC

RE: CITY OF ABERDEEN APPROVED LIST OF SUPPLIERS AND MATERIALS
FOR WATER AND SEWER CONSTRUCTION

1. The Department of Public Works hereby issues an addendum dated August 17, 2026 to the Harford County Part 15, dated March 1, 2026 for "Approved List of Suppliers and Materials For Water and Sewer Construction".
2. The Department of Public Works also hereby issues addenda to various Harford County Standard Details to reflect the changes made by the aforementioned addendum to the "Approved List of Suppliers and Materials".
3. The Changes become effective on the date noted above and are applicable within the Aberdeen's Water Distribution and Sewer Collection System for all areas that the City provides services.
4. For additional information contact the Department of Public Works at 410-272-1600 x 217

Sincerely,

Josh Quesenbery
Director of Public Works

Cc: Department of Planning and Community Development



HARFORD COUNTY

PUBLIC WORKS

DIVISION OF WATER AND SEWER

APPROVED LIST OF SUPPLIERS AND MATERIALS FOR WATER AND SEWER CONSTRUCTION

GENERAL RULES AND REGULATIONS PART 15

March 1, 2026





**City of Aberdeen Department of Public Works Addendum to Harford County
Approved List of Materials and Supplies for Water and Sewer Construction
Effective August 17, 2026**

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Approved List of Materials and Supplies for Water and Sewer Construction
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PART 14 APPROVED LIST OF SUPPLIERS AND MATERIALS FOR WATER AND SEWER CONSTRUCTION

I. GENERAL

- A. The Chief of Water and Sewer Maintenance shall maintain the approved materials list. The amendment of the list shall be the result of an evaluation and recommendation of a committee of operations, maintenance, and engineering staff of the Division of Water and Sewer periodically designated by the Deputy Director. The list shall be utilized by contractors, suppliers, designers, and County staff when identifying materials which have been approved for use in the County water and sewer systems. This list of approved materials shall be utilized in construction or maintenance when the project specifications do not contain enough detail to identify every item. This list of approved materials is to be used or referenced in designs unless a material not contained in the list is otherwise approved for use in a specification package
- B. The supplier of a material not on the list may request inclusion of a product by pursuing the following evaluation procedures:
1. Materials must be presented with a request for inclusion in the approved materials list. The request may initially be for an individual or limited number of projects.
 2. Five (5) copies of fact sheets, specifications, laboratory test results, drawing and significant information on applicability of use of the product must be presented before a request will be considered.
 3. Documentation of approval for use for the proposed application by other local, state or federal water and sewer operations and construction agencies must be presented.
 4. Depending on the nature of the product, factory visits and on-site visits to locations where the material or product is being utilized in construction and/or operation may be required as part of the evaluation process.
 5. If evaluation of the aforementioned information is acceptable, the product may be approved for use on a trial basis in a developer-funded or County capital project. NOTE: Large quantities or extensive use in the trial installation will normally not be allowed.
 6. The County reserves the right to have the product tested by an independent agency to assure that it meets the minimum requirements established in the Standard Specifications. In the event that the product does not meet the minimum requirements, the manufacturer will be responsible for all associated cost including, but not limited to, the test performed and any additional testing by Harford County. Should the product not pass a retest, the product will be removed from the Approved Material List.





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7. If the trial installation produces satisfactory results, then after an appropriate time for observation, the material or product may be utilized on a limited basis
8. Pending continued satisfactory performance and evaluation during the trial installation and limited use periods, the material or product may be added to the list of approved suppliers.





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II. WATER MAIN CONSTRUCTION

1. <u>PIPE, POLYVINYL CHLORIDE WATER*</u> <i>*default water main material in all instances</i> Westlake Pipe & Fittings J.M. Eagle National Pipe & Plastic Diamond Cresline SDR-21 (2" only) Sanderson Pipe Note: Rubber Ring Slip Joint Only 3" or smaller SDR-21 200 psi 4"-12" DR-14 305 psi	5. <u>FIRE HYDRANT, 5-1/4" VALVE OPENINGS - MECHANICAL JOINT</u> Mueller Super Centurion A 423 Kennedy Guardian K-81-A		
2. <u>PIPE, DUCTILE IRON (D.I.P)**</u> <i>(only permitted by exception with expressed approval from City DPW)</i> <table><tr><td><u>Slip Joint</u> U.S. Pipe & Fdy. Griffin American McWane Atlantic States Clow</td><td><u>Restrained Joint</u> T.R. Flex Snap Lock Flex Ring Super Lock</td></tr></table> <u>Field Lock Gasket</u> <i>* Gasket by same manufacture</i> <u>Special Thickness Class</u> Note: 3" – 6" Class 52 8" – 12" Class 52 14" & above Class 52	<u>Slip Joint</u> U.S. Pipe & Fdy. Griffin American McWane Atlantic States Clow	<u>Restrained Joint</u> T.R. Flex Snap Lock Flex Ring Super Lock	6. <u>PAINT FOR FIRE HYDRANTS</u> "SCHOOL BUS YELLOW" Primer: Sherwin-Williams – Gray #B65G11 Tnemec Co. – Hydo Zinc #94-H20 Intermediate: Sherwin-Williams – Macropoxy 646-100 Epoxy – Safety Yellow B58W00620 Tnemec Co. – Hi-build Epoxoline H Series V69-02SF Safety Yellow Finish/Top: Sherwin-Williams – Pro Industrial DTM Acrylic B66Y11037 – Gloss Safety Yellow Tnemec Co. – Endura Shield Series #1095-02SF Safety Yellow
<u>Slip Joint</u> U.S. Pipe & Fdy. Griffin American McWane Atlantic States Clow	<u>Restrained Joint</u> T.R. Flex Snap Lock Flex Ring Super Lock		
3. <u>PIPE, CAST IRON (C.I.P.)</u> Not approved in any instance.			
4. <u>PIPE, WATER SERVICE</u> (3/4", 1", 1-1/2", 2") Copper Tubing-Type K (All Sizes) Halstead Reading Cerro Mueller Tubing Company Howell Metals Cambridge-Lee *AWWA Approved PE Pipe (Copper Tubing Sized) permitted by exception with expressed approval from City DPW			





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7. <u>RESILIENT SEAT/WEDGE VALVES</u> <u>MECHANICAL JOINT (Flanged for Interior Use)</u> <u>Sizes Thru 30" (AWWA C-509-01)</u> Clow Series F-6100 (4"- 48") Kennedy Kenseal (4"-12") M&H Style 4067 (4"-12") Mueller Series A-2360-20 (4"-12") U.S. Pipe V&H – USP-0-20 (4"-12") <u>Sizes 4" - 12" (AWWA C-515)</u> American Flow Control 2500 series (4"-12") Clow 2638 series (4"-12") Kennedy KS-RW series (4"-12") M&H 7000 series (4"-12") Mueller A-2361 series (4"-12") U.S. Pipe – AUSP1 series (4"-12") <u>Sizes 14" - 36" (AWWA C-515-02)</u> American Flow Control Series 2500 Clow Series F-6100 Kennedy Kenseal M&H Style 7571 Mueller Series A-2361-20 U.S. Pipe V&H – USP-1-20 (14"-48") <u>Sizes 24" and Above</u> Pre-approval required Note: 1. Gearing required above 16" 2. 3"-36" Non-Rising Stem; 3"-16" OS&Y 3. Brass Test Plug 4. All valves are required to use 304 or 316 stainless bolts and nuts. The County may require 316 stainless fasteners to be used in lieu of 304 stainless in instances where it deems necessary. 5. All Valves Should be Clockwise to Close/ 1. Counter-Clockwise to Open	9. <u>VALVE, COMBINATION AIR/VACUUM RELEASE</u> Duo Matic/Kenetic* 1" on Mains thru 12" Apco (Valve & Primer) 143-C 142 Valmatic 201-C 101 Cla-Val Series 36 A.R.I. D-040 2" on Mains 14"-20" (Where Specified) Apco 145-C 144 Valmatic 202-C 102 Cla-Val Series 36 A.R.I. *Kenetic-Harford County Model 10. <u>TAPPING SLEEVE ONLY (MECH. JOINT)</u> (*wet-taps larger than 2" only permitted by exception with expressed approval from City DPW) PowerSeal Tap Sleeve with S.S. MJ Outlet –All Sizes U.S. Pipe M&H Valve 6" – 12" Mueller 4"-12" H-619(A.C.) Mueller 4"-24" H-615 (C.I., D.I.) Tyler Pipe 4"-12" S-149 (for C.I.), S-349 (for A.C.) 4" – 12" American Flow Control M.J. Sleeve - D.I. 4"-36" Full Circle Stainless Steel Tapping Saddles 14" and Greater For A/C Pipe (Pre-app. required) JCM-414; Romac-FT425 Note: 1. 316 S.S. nuts and bolts 2. Coating – Epoxy (fusion), E-coat 3. Taps on AC Pipe Prohibited
8. <u>BUTTERFLY VALVES (24" & LARGER)</u> <u>(Valve Shafts-Horizontal)</u> Submit shop drawings	





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11. <u>FITTINGS - MECHANICAL JOINT - CEMENT LINED OR EPOXY COATED - D.I. 3" – 48"</u> <u>(Flanged for Interior Use)</u> Star 3" – 48" Tyler Fdy – 36" Tyler Fdy./Union Fdy (C.I. upon request) – 3"- 48" Clow – 4" – 30" HarCo-PVC - Slip Joint with restraints Union Fdy. (C.I. upon request) Sigma 3" – 48" Note: 48" Class 350 D.I (AWWA C-53) - M.J. Fittings to be Cement Lined - Flanged Fittings to be Epoxy Coated where available - Flanged fittings to have 316 S.S. bolts w/brass nuts.	14. <u>VALVE BOX SCREW - TYPE 2-PIECE</u> 36"- 48" (5-1/4") (3" Valves & Larger & Blow-off) Bingham & Taylor #4905 Capital Foundry of Virginia, Inc. #564s East Jordan #664-S
12. <u>RETAINER GLAND DUCTILE IRON - WEDGED</u> (For D.I.P. Only) EBAA Iron Mega-A-Lug Uni-Flange/Ford Wedge Action-Series 1400 Mueller Company-Aqua Grip (4"-12") (Fire Hydrant and Valve Only) Star Grip – 3000 series Sigma – SLD – one lock Tuf-Grip-Tyler-Union Foundry Note: epoxy, nylon, mega-bond, e-coat, star bond.	15. <u>CURB-BOX LOCKING SCREW- TYPE (4-1/4")</u> Bingham & Taylor #4903 Capital Foundry of Virginia, Inc. #NH-138-H-UP
13. <u>PIPE COUPLING - FOR D.I.P., C-900, AC</u> *Ford - Style FC 2"-24" *Smith-Blair - Style 441 2"-16" *Romac - Style 501 Hymax – 2000 2" – 16" PowerSeal Transition Coupling #350108B00000 – All Sizes Kraus Hymax Grip / All Models Mueller Maxi-Fit Romac Alpha / All Models *Submit shop drawing for approval on all A.C pipe work Note: - All couplings to be coated w/epoxy, nylon, e-coat. 316 S.S. nuts and bolts	16. <u>METER VAULT (18", 24", 30")</u> Plastic Enclosures Only (Concrete Pits & Slabs Not Permitted) Brands Comparable to Mid-States, Bingham & Taylor, Oldcastle, etc. Note: No Bricks or Concrete Risers; Plastic Risers Only
	17. <u>18" METER FRAME & 15" COVER</u> A.Y. McDonald: Frame # 74MACF18; Single Hole Lid # 74MCL115T; Bingham & Taylor: Frame # CULF18018SP; Single Hole Lid IFL90301WS Capital Foundry of Virginia, Inc: Frame # MBX-3437-F; Single Hole Lid # MBX-347-C-H Ford Meter Box Company: Frame # FA32C; Single Hole Lid # C3L-T Vestal 32-482
	18. <u>EXTENSION RING</u> <u>24" x 30"</u> Ford Vestal A.Y. McDonald





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19. <u>VALVE/METER VAULT, PRE-CAST CONCRETE, LARGE</u> Mayer Brothers, Inc.; Terre-Hill; Atlantic Precast; A.C. Miller/Fabcrete Pre- Piped Vault; Horne Concrete; Gillespie Note: Vault manufacturers not NPCA certified may be permitted to supply vaults if other requirements can be met. Contact the Division of Water and Sewer Maintenance Section for details.	24. <u>SERVICE SADDLE</u> Ford Style FC-202; Romac 202N Smith-Blair 317 Nylon-Coated Mueller DN2S or DE2S JCM – 406 PowerSeal – #3450AS All Sizes PowerSeal – Service saddle compression corporation stop combination Model 3450AS D.I.P. 1 ½”- 2” or PVC 3”- 12” a. Specify type of pipe when ordering. b. All saddles to be epoxy, nylon, or high-density fusion plastic, E-Coat. c. Pre-sized for PVC pipe.
20. <u>4” FRAMES & COVERS FOR VALVE VAULTS & AIR-RELEASE MANHOLES</u> East Jordan Iron Works E.A. Quirin Foundary Neenah Foundary 24” Frame-1565-2001 Lid No-1565-5134 30” Frame-1568-2000 Lid No. 1568-5001	25. <u>INSIDE METER SETTING</u> INSIDE METER SETTINGS NOT PERMITTED FOR RESIDENTIAL USE WITHIN CITY OF ABERDEEN
21. <u>ALUMINUM METER VAULT DOORS</u> (H-20 Loading) BilCo Syracuse Castings Just-Set P.A. Insert (Har. Co. Spec.)	26. <u>CORPORATION STOP, COMPRESSION JOINT</u> Approved Sizes: 3/4” - 2” Approved Brands: Ford, Mueller, McDonald All Corporation Stops must be: 1. CTS Compression Quick-Joint Style x AWWA Taper Thread for use with approved saddle. (direct tapping not permitted) 2. Ball Style Corp (Key Corps not permitted)
22. <u>PRE-CAST VAULT TO PIPE LINE CONNECTOR</u> Atlantic Pre-Cast – A-Lock (<18° grade) Z-Lock (<18° grade) Terre-Hill Concrete Products – Dual Seal II RX101 Water Stop Hail Mary Rubber Company – Star Seal	27. <u>CURBSTOP, THREADED</u> Approved Sizes: 3/4” - 2” Approved Brands: Ford, Mueller, McDonald
23. <u>JOINT PROTECTOR</u> (Steel End Ring Concrete Pipe) Flex-Protex Pipe Ring Protectors MarMac Mfg. Company	







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28. <u>CURBSTOP, COMPRESSION JOINT</u> Approved Sizes: 3/4" - 2" Approved Brands: Ford, Mueller, McDonald CTS Compression Quick-Joint Style Only	34. <u>REPAIR CLAMPS</u> PowerSeal Repair Clamp #3121AS FORD, MUELLER, SMITH BLAIR, ROMAC, FULL-CIRCLE STAINLESS STEEL REPAIR CLAMPS WITH STAINLESS HARDWARE; All Sizes
29. <u>COUPLING, COPPER COMPRESSION JOINT</u> Approved Sizes: 3/4" - 2" Approved Brands: Ford, Mueller, McDonald CTS Compression Quick-Joint Style Only	<i>ITEMS 35 – 40 PERTAIN TO METER YOKE ASSEMBLIES AND EXPANSION CONNECTORS.</i> <i>THESE ITEMS AND TYPE OF METER SETTINGS ARE NOT PERMITTED FOR USE IN THE CITY OF ABERDEEN. SEE CITY DPW METER SETTER REQUIREMENTS BELOW:</i> <u>METER SETTER REQUIREMENT:</u> The City of Aberdeen requires meter sizes 3/4" - 1" use an approved meter setter configured as follows: -Ford (or Mueller or McDonald Equivalent): Coppersetter 70 & 80 Series or Resetter 40 Series -Lockable Angle Ball Valve Inlet -Angle Cartridge Dual Check Outlet, -CTS Q-Joint Compression Inlet and Outlet Cast Iron Yoke Assemblies and Expansion Connections are not permitted within the City of Aberdeen. Setter height should be based on appropriate bury depth of service line. All sizes should be based on size of meter and design requirements of service customer.
30. <u>Y-BRANCH COUPLING, COMPRESSION</u> To be used for approved instances only. Shared services and twin connections are not permitted within City of Aberdeen. Approved Sizes: 2" x 1" x 1 Approved Brands: Ford, Mueller, McDonald CTS Compression Quick-Joint Style Only	
31. <u>CATHODIC PROTECTIVE CAP NUT</u> (Oversized) Protector Cap Trumbull Industries Mars Co.	
32. <u>DISMANTLING JOINT</u> Smith-Blair Series 975 Romac DJ-400 Kraus 811 – 316 S.S. bolts Note: 1. W/S.S. tie-rods and nuts, w/epoxy, nylon, or e-coat coating. 2. 316 S.S. bolt w/brass nuts.	
33. <u>FLANGE PIPE/ADAPTOR</u> Flanged end spool piece to be used, Minimum working pressure 200 psi Hymax, Romac & Uni-Flange Models EBAA-2100 Series Note: 1. Pre-approved only. 2. Epoxy, nylon, e-coat coating. 3. 316 S.S. bolt w/brass nuts.	





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41. <u>THREADED BRASS FITTINGS</u>				
All Manufacturers				
42. <u>BALL VALVE BRASS</u>				
	<u>3/4"</u>	<u>1"</u>	<u>1 1/2"</u>	<u>2"</u>
Ford	B-11-333	B-11-444	B-11-666	B-11-777
Mueller	20283+Size	20283+Size	20283+Size	20283+Size
A.Y. McDonald	76101+Size	76101+Size	76101+Size	76101+Size
43. <u>LOCK-WING BALL VALVE BRASS</u>				
	<u>3/4"</u>	<u>1"</u>	<u>1 1/2"</u>	<u>2"</u>
Ford	B-11-333-W	B-11-444-W	B-11-666-W	B-11-777-W
Mueller	20200-W+Size	20200-W+Size	20200-W+Size	20200-W+Size
A.Y. McDonald	76101WW+Size	76101WW+Size	76101WW+Size	76101WW+Size
44. <u>DUST CAP</u>				
Niagara				
45. <u>BRASS PIPE – THREADED</u>				
All Manufacturers				
46. <u>OUTSIDE DOMESTIC WATER SERVICE COMPLETE (3/4")</u>				
See City of Aberdeen Standard Detail Addenda for approved configuration and materials.				
47. <u>OUTSIDE DOMESTIC WATER SERVICE COMPLETE (1")</u>				
See City of Aberdeen Standard Detail Addenda for approved configuration and materials.				
48.- 49. <u>WATER METERS (FOR DOMESTIC AND FIRE PROTECTION)</u>				
All Applications; All Sizes 3/4" – 12":				
Neptune Mach-10 E-Coder R900i Ultrasonic Meter				
Submit shop drawing for approval of any exceptions				
All sizes should be based on size of meter and design requirements of service customer				
All fire systems (including private hydrants) shall be metered in entirety.				
50. <u>BACKFLOW PREVENTERS</u>				
Apollo Model DCLF4A	1/2" – 12"			
Apollo Model RPLF4A	3/4" – 12"			
Apollo Model DCDALF4A	2 1/2" – 12"			
Apollo Model RPDALF4A	2 1/2" – 12"			
Zurn, Wilkins, & Watkins Models DDC and RPZ				
Note:				
1. Retest and certification required before operational approval.				
2. All reduced pressure models require air gap funnel drain.				
3. All sizes should be based on size of meter and design requirements of service customer				





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III. SEWER MAIN CONSTRUCTION

1. <u>PIPE, POLYVINYL CHLORIDE (PVCSP)</u> North American Pipe J.M. Eagle National Pipe & Plastic Diamond Sanderson Pipe Note: 4" thru 6" Class SDR-26 Heavy Wall 8" thru 15" Class SDR-35 18" thru 24" PS115 ASTM F679 and F1336	4. <u>MANHOLE, PRECAST CONCRETE</u> Atlantic Precast Concrete Pipe & Products Terre-Hill Monarch Products Company, Inc. Hanson Products Horne Concrete Advanced Drainage Structures GilesPie Precast Note: All precast sewer manholes must have Dura-Plate 100 interior lining or other comparable corrosion resistant product.
2. <u>PIPE, DUCTILE IRON</u> NOT PERMITTED FOR USE IN CITY SEWER SYSTEMS UNDER ANY CIRCUMSTANCE	5. <u>MANHOLE TO PIPE CONNECTORS</u> (Grades >18% and <45%) A-Lok - Z-Lok Products PressSeal
3. <u>FORCE MAIN SEWER PIPE</u> 2"-3": - Rubber Ring Slip Joint - SDR 21, Class 200 PVC 3": - HDPE (D.I.P. Sized) - PVC (Restrained Joint) 4"-12" - DR 14 - C-900 PVC - HDPE (D.I.P. Sized) - PVC (Restrained Joint) Over 12" - HDPE (D.I.P. Sized) - PVC (Restrained Joint) Note: 1. Refer to Water Main Materials for manufacturers. 2. Ductile Iron Sewer Pipe is not permitted. 3. DR Rating based on Pressure	6. <u>MANHOLE TO PIPE CONNECTORS</u> (Grade <18%) A-Lok - Atlantic Precast Dual Seal II - Terre-Hill Concrete Products Star-Seal (greater than 16") 7. <u>BUILT IN-PLACE MANHOLE TO PIPE CONNECTORS</u> A-Lok Field Kit - A-Lok Products Z-Lok Field Kit - A-Lok Products Note: 18% Grade = 10.2° 19.5% Grade = 11° 8. <u>CORED MANHOLE GASKETS</u> A-Lok - A-Lok Products Link-Seal - Thunderline Corp. Z-Lok XP - A-Lok Products Kor-N-Seal - National Pollution Control Systems, Inc. Model S406-12APW Note: All gaskets require two S.S. bands





SEWER MAIN CONSTRUCTION





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SEWER MAIN CONSTRUCTION

9. <u>PLUGS - SEWER (WING-NUT)</u> Cherne Industries Inc. - "Gripper" R.C. Graham - "Hand-Tite" Circle Gas Manufacturing	13. <u>LAMPHOLE FRAME & COVER</u> Capitol Foundry of Virginia, Inc. Frame & Cover No. #VB-9*S East Jordan Iron Works, Inc. Frame Model No. 1565Z Lid Model No. 1565A Neenah Foundry Company Frame Model No. 1976-0001 Lid Model No. 1976-0032
10. <u>FITTINGS</u> G.P.K. Products, Inc. Multi-Fitting-PVC (Thru 15") Plastic-Trend-PVC G.P.K. Products, Inc. 10"-27" Fabricated 10"& Larger Multi-Fitting-18"-36" Freedom-10"-36" Nyoplast-10"-36" B&H Inc.-10"-15" PVC 6"-8" Wye, 45° Bend Plastic Trends SDR-26 HarCo SDR-26 Multi-fitting – SDR-26 G.P.K. SDR-26 Fernco "Hulk" Coupling GPK Products/Indiana Seal "Shearguard" Coupling D.I.P. 6"-8" Wye, 45° Bend HarCo Hersey Products, Inc. Note (applies to Hersey ONLY): 1. Fusion, bonded epoxy, nylon, e-coat lining. 2. < 4" – Fusion bonded epoxy. 3. All Ductile Fittings to be lines with Protecto401 or Comparable Product Interior double cement lined	14. <u>MANHOLE FRAME & COVER (STANDARD)</u> Capital Foundry of Virginia Item No. MH-1676 HAR-SS-STR Neenah Foundry Company Frame Model No. 1565-2300 Lid Model No. 1565-5120 East Jordan Iron Works, Inc. Frame Model No. 1545Z3 Cover Model No. 1544A 15. <u>MANHOLE FRAME AND COVER WATERTIGHT)</u> East Jordan Iron Works, Inc. Frame Model No. 2060ZVHPT Cover Model No. 2065AVHPT Neenah Foundry Company Model No. 0785-015
11. <u>PLASTIC STEP</u> M.A. Industries, Inc.	16. <u>BRICK - SM GRADE</u> Redland Brick Glen-Geary Brick Co. Pine Hall Brick Lawrenceville Brick McAvoy Cobset Brick
12. <u>SADDLE</u> Geneco Sealite (Specify type pipe) Romac "CB" (Any type pipe) PowerSeal Sewer Saddle 4" & 6" Note: To be epoxy, nylon, or E-coated SADDLE CONNECTIONS TO SEWER MAINS ARE ONLY PERMITTED WITH EXPRESSED AUTHORIZATION FOR EACH INSTANCE	17. <u>GRADE RINGS (6" MAXIMUM HEIGHT) W/STEEL REINFORCEMENT</u> Atlantic Pre-Cast Terra-Hill Products Cretex Pro-Rings





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SEWER MAIN CONSTRUCTION

18. <u>MANHOLE PAINT FOR FRAME & COVER (OFF-SITE)</u> Day-Glo (Fluorescent Green Industrial Enamel) DG215-18 (Signal Green)	24. <u>AIR & VACUUM VALVES</u> Apco Val-Matic Cla-Val A.R.I. D-020, D-025 Note: As per shop drawing.
19. <u>MANHOLE PAINT FOR FRAME & COVER (OFF-SITE)</u> (White Primer) Coronado-Grip & Seal – 116-11 White	25. <u>MASTIC ROPE SEAL (3/4")</u> K.T. Snyder – “Rubber-Nek” Press Seal Gasket Corporation Conseal
20. <u>ADAPTOR (FROM 6" HOUSE CONNECTION TO CAST-IRON SOIL PIPE)</u> Fernco; Calder; Indiana Seal Fernco "Hulk" Coupling GPB Products/Indiana Seal "Shearguard"	26. <u>CLEANOUT - HUB & CAP (Penella Style 4" & 6")</u> Penella Industries PVC w/Magnet Jumbo Manufacturing Company Cast Iron w/Gasket Circle Gas Manufacturing Company Cast Iron w/Gas K.T. Snyder “Rubber-Nek”
21. <u>PVC RISER PIPE – CLEANOUT (SDR-26 - HEAVY WALL SEWER)</u> J.M. Eagle National Pipe & Plastic Diamond Westlake	27. <u>STAINLESS STEEL MANHOLE INSERT W/RELIEF VALVE</u> Southwestern Packing & Seal Company S.S. Rainstopper Parson Environmental Products, Inc. Stainless Steel Manhole Insert
22. <u>SOIL PIPE (CAST-IRON HEAVY DUTY) (Cleanout Riser 4")</u> NOT PERMITTED FOR USE IN CITY SYSTEM	28. <u>MANHOLE INSERT W/ODOR CONTROL</u> Calgon “Sweet Street” Parson Environmental Products, Inc.
23. <u>RETAINER GLAND-WEDGED (FOR D.I.P.)</u> Ebba Iron Meg-A-Lug Uni-Flange/Ford Wedge Action Series 1400 Star Grip – 3000 Series Sigma Tuf-Grip-Tyler-Union Foundry Note: Coating - Epoxy, nylon, Mega-Bond, e-coat, star bond	29. <u>MANHOLE EXTERIOR JOINT WRAP – 12"</u> Conseal – Con-Wrap CS-212 Press-Seal-EZ-Wrap Cretex External X85 Seal





IV. WATER AND SEWER MAIN CONSTRUCTION

1. <u>STEEL CASING PIPE</u> Approved after shop drawing submittal.	10. <u>CATHODIC PROTECTIVE CAP NUTS.(OVERSIZED)</u> Protector Cap Trumbull Industries Mars Co.
2. <u>LINER PLATE</u> Approved after shop drawing submittal.	11. <u>REPAIR CLAMPS</u> 2" -12" One-Section Ford Style FS1 <u>4" - 15" Two-Section</u> Smith-Blair 262 Ford Style FS2 Romac Style SS2 Powerseal Style 3122 AS Hymax – Easy Max <u>16" and above Three-Section</u> Ford Style FS3 Smith-Blair Style 263 Romac Style SS3 Powerseal Style 3123 AS
3. <u>DETECTOR TAPE</u> (3" Non-Metallic) Lineguard Allen Systems Linetec Empire Level	12. <u>2-1/2" TRACER TEST BOX W/TERMINAL BLOCK</u> Bingham & Taylor – P-200 Test COPPERHEAD/SNAKEPIT Note: 1. Blue lid for water. Green lid for sewer 2. Test location at fire hydrant
4. <u>TRACER WIRE</u> (7 Strand No. 8 w/.045 PE Wall Blue) All Manufacturers	13. <u>5" TERMINAL BOARD (THREE TERMINALS) W/STANDARD 4-1/4" LOCKING CURB-BOX</u> Bingham & Taylor – Note: 1. Blue lid for water. Green lid for sewer
5. <u>SOLDERLESS SPLIT BOTTOM CONNECTORS</u> Brass	14. <u>INTERIOR MANHOLE COATING</u> Sentry Polymers, Inc. Epoxy Vinyl Ester (Semstone 5301) Duraplate 100 or equivalent
6. <u>SPLICING TAPE-UNDERGROUND</u> 3M	
7. <u>BITUMINOUS COATING</u> (Military Spec. C-18480) All Manufacturers	
8. <u>COAL TAR EPOXY</u> (16 Mil D.F.T. Min) All Manufacturers	
9. <u>NON-SHRINK EPOXY GROUT</u> All Manufacturers	





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WATER AND SEWER MAIN CONSTRUCTION

15. PIPE SUPPORT/SPACER FOR SLEEVE

PIPELINE Products, Inc.
J-Four-M33 - s.s.
Raci-casing spacer
CCI Pipeline System C558

16. SLEEVE/CARRIER PIPE END SEAL

CCI Pipeline Systems
Model ESC
Model ESW

NOTE:

- * The classes or designations of pipe shown on this list are the classes that are normally used in water and sewer construction in Harford County.

However, it is possible that the Contract Documents, Special Provisions and/or Plans may specify a class or designation that is different and/or greater than that shown on the list. In the event of such a discrepancy, then the Contract Documents, Special Provisions and/or Plans shall govern.

- ** The Packer Head pipe procedure will not be used





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V. LOW PRESSURE SEWER CONSTRUCTION

1. <u>PIPE HDPE</u>			
1 ½" – 4" SDR-11 IPS EHMW PE3408 Performance Pipe Prod - Driscopex 4300 Poly Pipe Flying W J.M. Eagle Charter Plastic			
2. <u>PIPE-HDPE FITTING/TRANSITION PIECES - BUTT FUSION TYPE</u> (Pressure Rated to Match System Piping)			
<u>Molded 1 ½" - 4"</u>	<u>D.I.P.</u>	<u>Brass 1 ½" – 4"</u>	
IPEX	HarCo	All Manufactures	
Central Plastic			
Charter Plastic			
TEGG			
Agro			
Independent			
3. <u>J PIPE-PVC PIPE GASKETED - (SDR-21- 1 ½"- 4")</u>			
<u>PVC</u>	<u>D.I.P.</u>	<u>Brass 1 ½" – 4"</u>	
National	HarCo	All Manufactures	
Charlotte			
Crestline			
J.M. Eagle			
Diamond			
North American Pipe			
Note: 1. PVC pipe fittings for main line – match pipe material.			
4. <u>BALL VALVE CURB STOP - W/FEMALE IPT END CONNECTION (OR PACK JOINT)</u>			
	<u>Manufacturer</u>	<u>Female IPT End</u>	<u>Pack Joint</u>
1 ½"	Ford	B11-666	B77-666
	Mueller	B-20283+Size	V-25226
	McDonald	6101	6100-44
2"	Ford	B11-777	B77-777
	Mueller	B-20283+Size	V-25226
	McDonald	6101	6100-44
5. <u>SEWAGE GRINDER PUMPING UNIT AND CONTROL PANEL</u>			
Environment/One Corporation			





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6.	<u>VALVE KEY EXTENSION</u>		
	Genco		
7.	<u>FITTINGS FOR LP 2-5</u>		
	<u>D.I.P</u>	<u>Brass Ball Valve</u>	<u>Brass</u>
	HarCo	Ford	All Manufacturers
	Hersey	Mueller	
		A.Y. McDonald	
	Note: D.I.P Fittings – Cement Lined		
8.	<u>ROADWAY BOXES – VALVE - 5 1/4" (SCRW TYPE)</u>		
	Bingham & Taylor 4905 Capital Foundry of Virginia, Inc. #564s East Jordan 664-S		
9.	<u>FIRE HOSE COUPLING W/ CAP - 2 1/2"-BRASS NST THREAD</u>		
	Potter-Roemer Red Head/Dixon Thompson Industrial		
10.	<u>NIPPLE/RISER - D.I.P/BRASS 2" - 4" NPT THREAD</u>		
	HarCo – D.I.P Brass – All Manufacturers		
11.	<u>CONCRETE VAULT - 24"</u>		
	Mayer Brother, Inc		
12.	<u>TRACER WIRE</u> (7 Strand No. 8 w/.045 PE Wall Blue)		
	All Manufacturers		
13.	<u>FRAME & COVER - 24" - 24" X 4" – STANDARD SEWER</u>		
	East Jordan Campbell Fdy. Neenah – Frame – NF-15652001 Lid-NF-15655134		
14.	<u>R/S GATE VALVE – 3" & GREATER</u>		
	*See water main construction for approved manufacturers		
15.	<u>ADJUSTMENT RING – 24"</u>		
	East Jordan Infra-Riser		

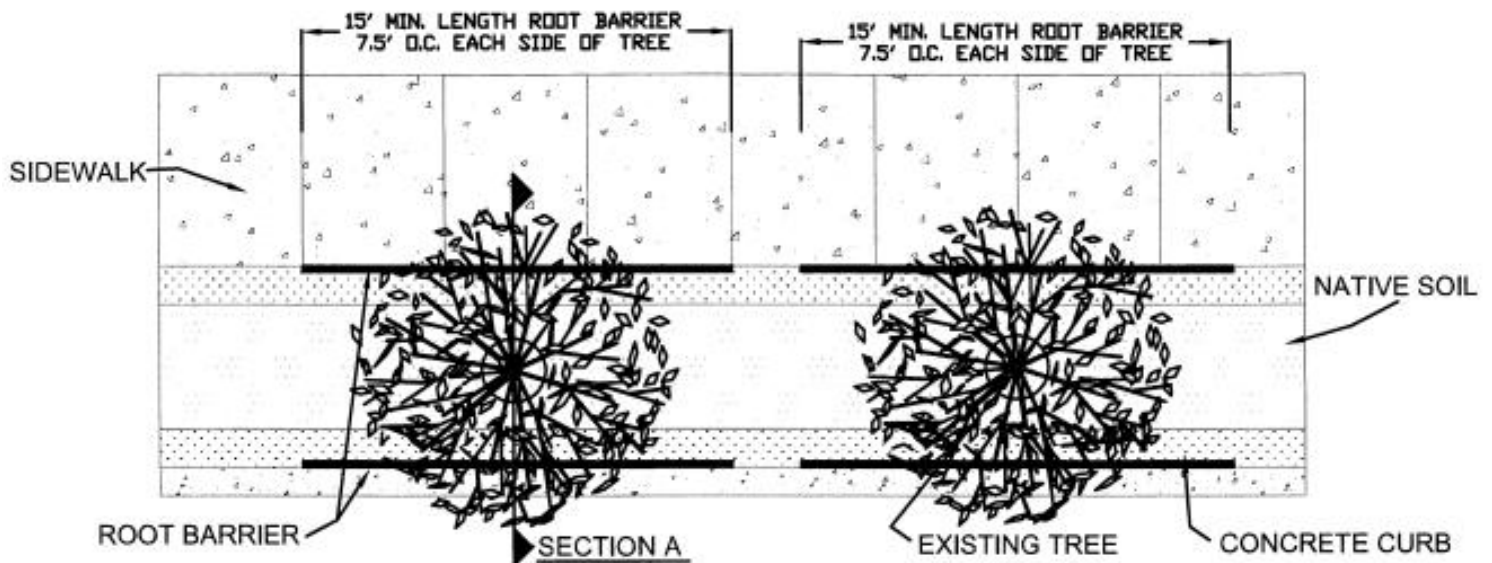




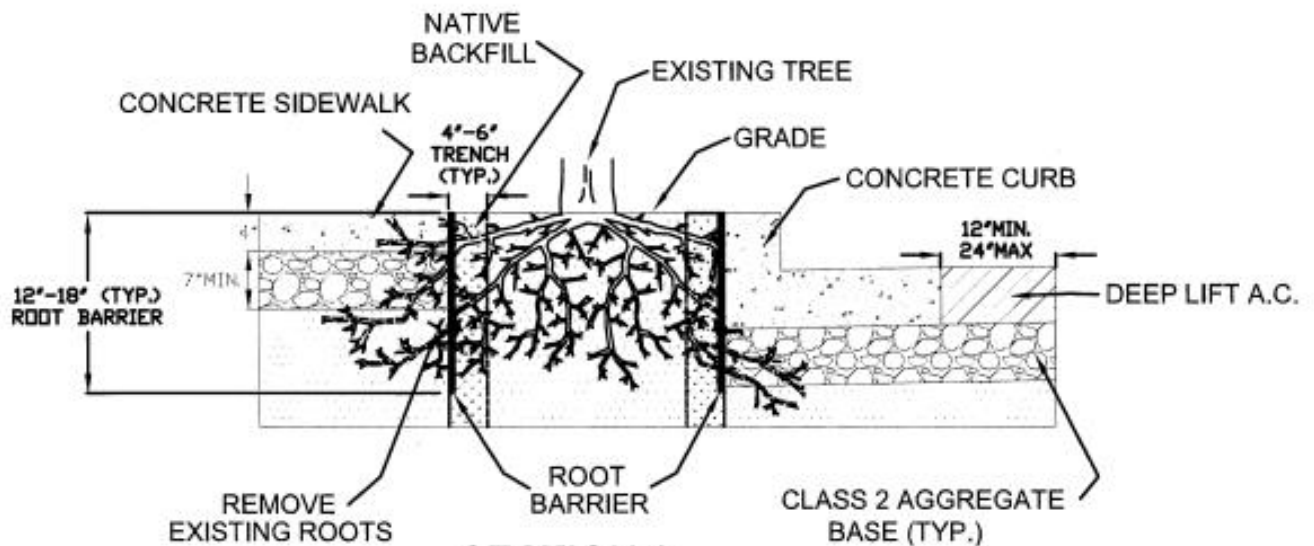
SECTION V: CITY OF ABERDEEN **STANDARD DETAILS ADDENDA**

The following Standard Detail Plates shall supplement the corresponding Harford County Standard Detail Plates while reflecting approved materials and methods to be used within the City of Aberdeen.





PLAN VIEW



SECTION A

NOTES:

1. ROOT BARRIER SHALL BE BLACK, INJECTION MOLDED PANELS OR LINEAR ROLL WITH 90° DEFLECTING RIBS.
2. ROOT BARRIER SHALL BE MANUFACTURED WITH 50% POST CONSUMER POLYPROPYLENE PLASTIC WITH ADDED ULTRAVIOLET INHIBITORS; RECYCLABLE.
3. INSTALL MINIMUM 12" TO MAXIMUM 18" HIGH ROOT BARRIER.
4. ROOT BARRIER SHALL HAVE A MINIMUM WALL THICKNESS OF 0.06" (60 mil) & RIB THICKNESS OF 0.08" (80 mil).
5. THE VERTICAL ROOT DEFLECTING RIBS SHALL BE FACING INWARDS TO THE ROOT BALL.
6. ROOT BARRIER SHALL BE 15' LONG; 7.5' O.C. FROM TREE UNLESS APPROVED OTHERWISE BY ENGINEER.
7. ROOT BARRIER TRENCH SHALL BE 4" WIDE TO 6" WIDE.
8. ROOT BARRIER SHALL BE INSTALLED VERTICAL IN TRENCH ADJACENT TO SIDEWALK AND CURB AT GRADE.
9. THE CITY ARBORIST SHALL BE NOTIFIED BEFORE EXTENSIVE CUTTING OF ROOTS.

CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS

Kyle Jouts

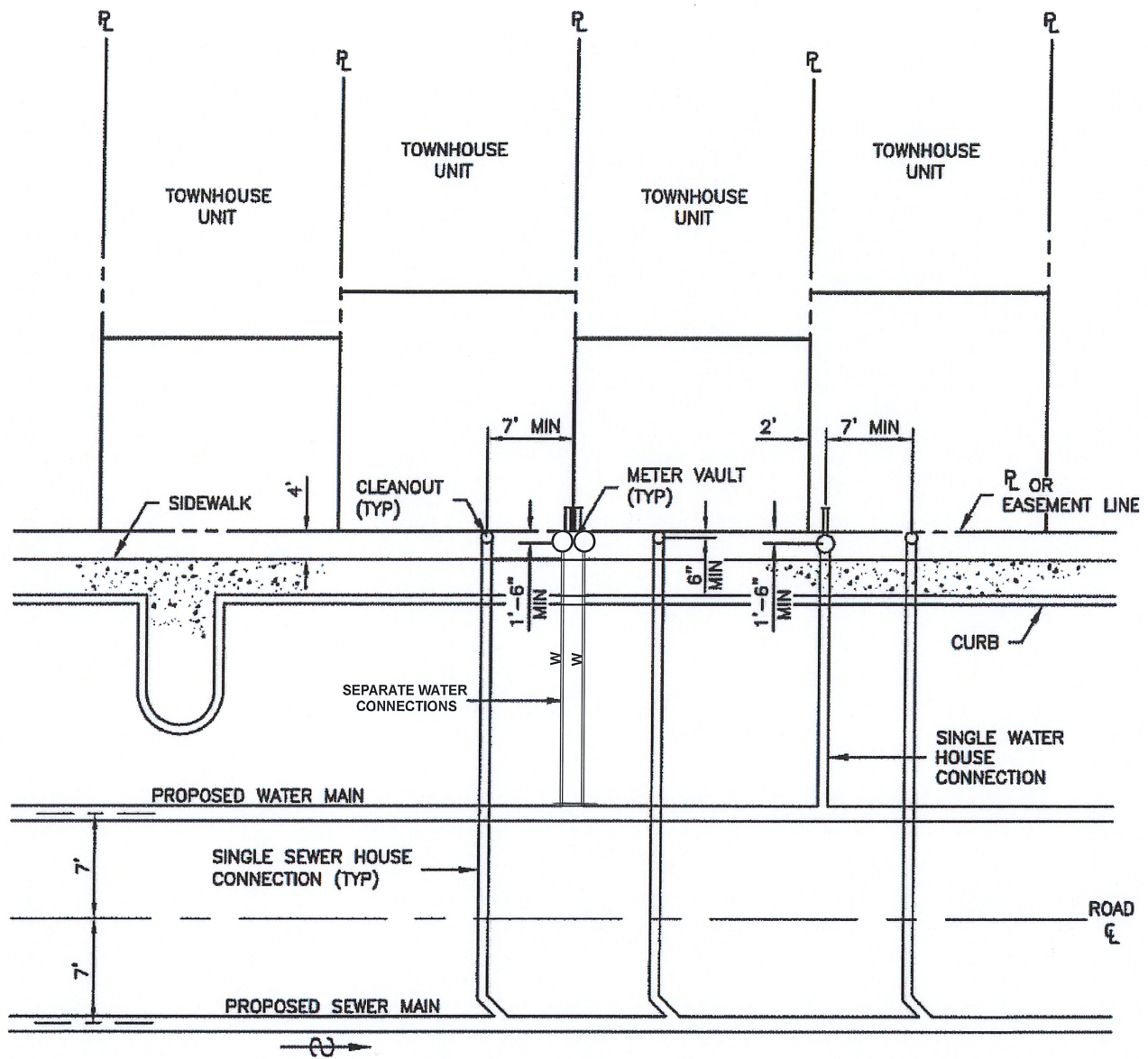
STANDARD DETAIL

TREE ROOT BARRIER
INSTALLATION

CITY OF ABERDEEN
STANDARD DETAILS

PLATE **T-1**





NOT TO SCALE

NOTES:

1. METERS TO BE SUPPLIED WITH INDIVIDUAL SERVICE LINES
2. TWIN CONNECTIONS & SHARED SERVICES NOT PERMITTED BY CITY OF ABERDEEN
3. IN TOWNHOUSE UNITS WITHOUT PERPENDICULAR PARKING, AN ADDITIONAL TWO (2) FOOT DRAINAGE AND UTILITY EASEMENT IS REQUIRED. METER VAULTS AND CLEANOUTS SHALL BE LOCATED AS SHOWN ON G-2.
4. PLACE UTILITIES ON LOW SIDE OF LOT.
5. MINIMUM SEPARATION BETWEEN WATER AND SEWER SERVICES IS SEVEN (7) FEET.
6. METER PITS AND CLEANOUTS SHALL NOT BE LOCATED IN SIDEWALKS OR STEPS.



CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS

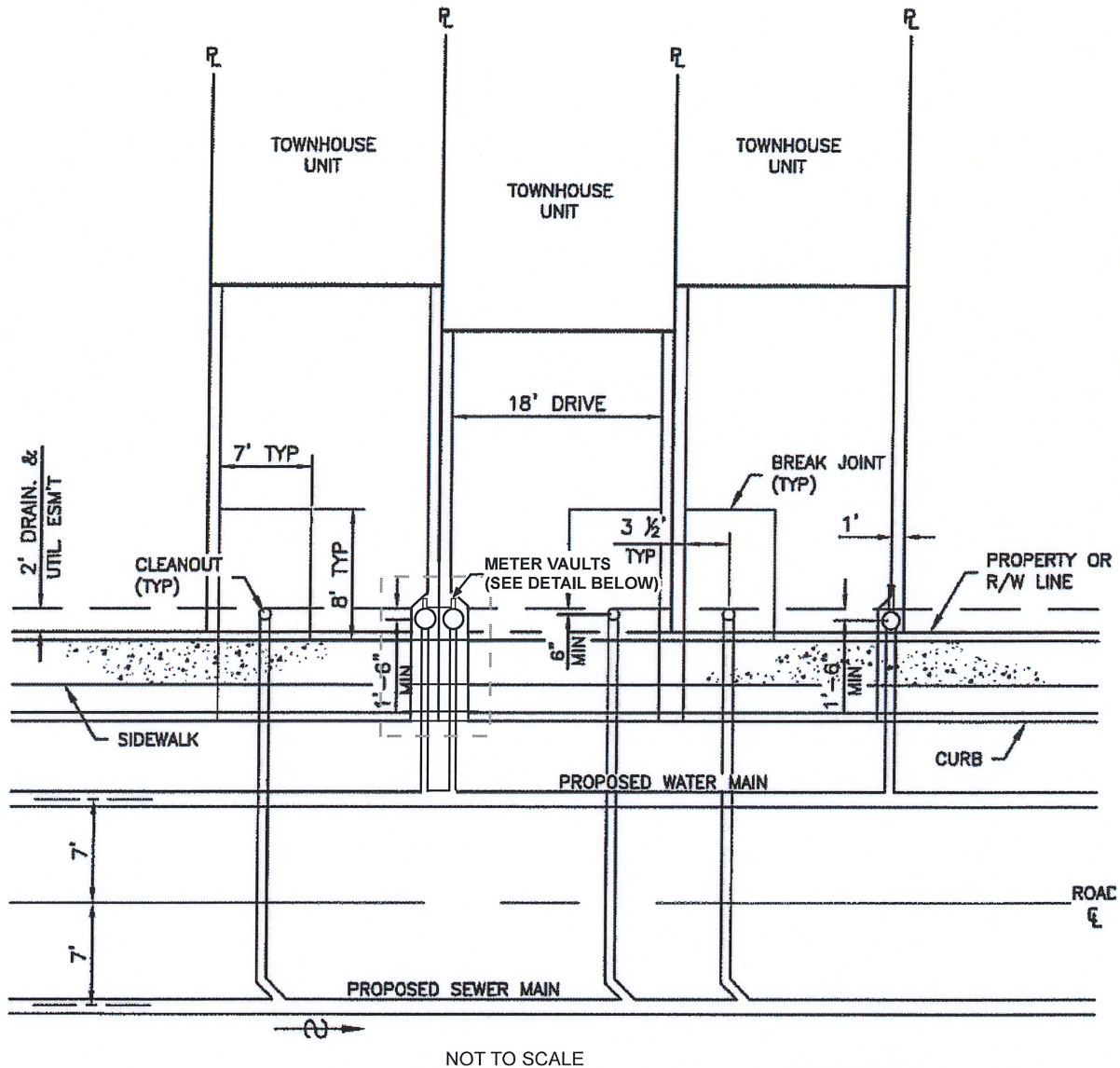
Kyle Jouts

STANDARD WATER DETAILS

WATER AND SEWER SERVICES
FOR TOWNHOUSE LOTS

CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS

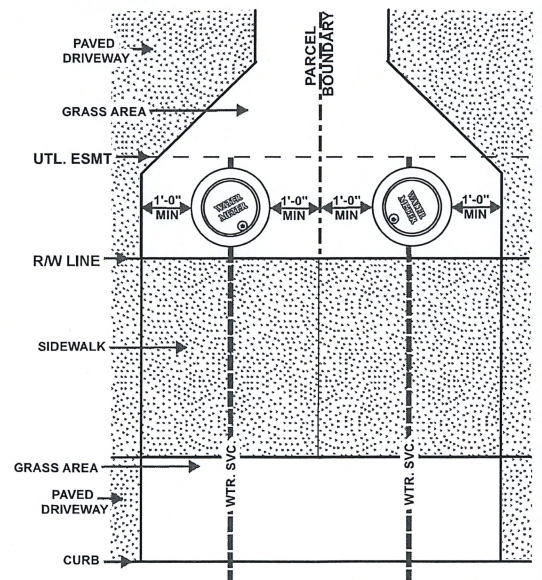
PLATE **G-3**



NOTES:

1. METER VAULTS SHALL NOT BE LOCATED IN DRIVEWAYS, SIDEWALKS OR STEPS. DRIVEWAYS SHALL BE TAPERED AS REQUIRED.
2. METER VAULTS MUST BE ONE (1) FOOT FROM PROPERTY LINE AND ONE (1) FOOT FROM PAVED SURFACES. (SEE DETAIL)
3. METERS TO BE SUPPLIED WITH INDIVIDUAL SERVICE LINES WITH SEPARATE ENCLOSURES. TWIN CONNECTIONS AND SHARED SERVICES NOT PERMITTED IN CITY OF ABERDEEN.
4. ALL CLEANOUTS SHALL USE TRAFFIC BEARING FRAME & COVER PER STD DETAIL S-28.
5. MINIMUM SEPARATION BETWEEN WATER AND SEWER SERVICES IS SEVEN (7) FEET.

DETAIL



CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS

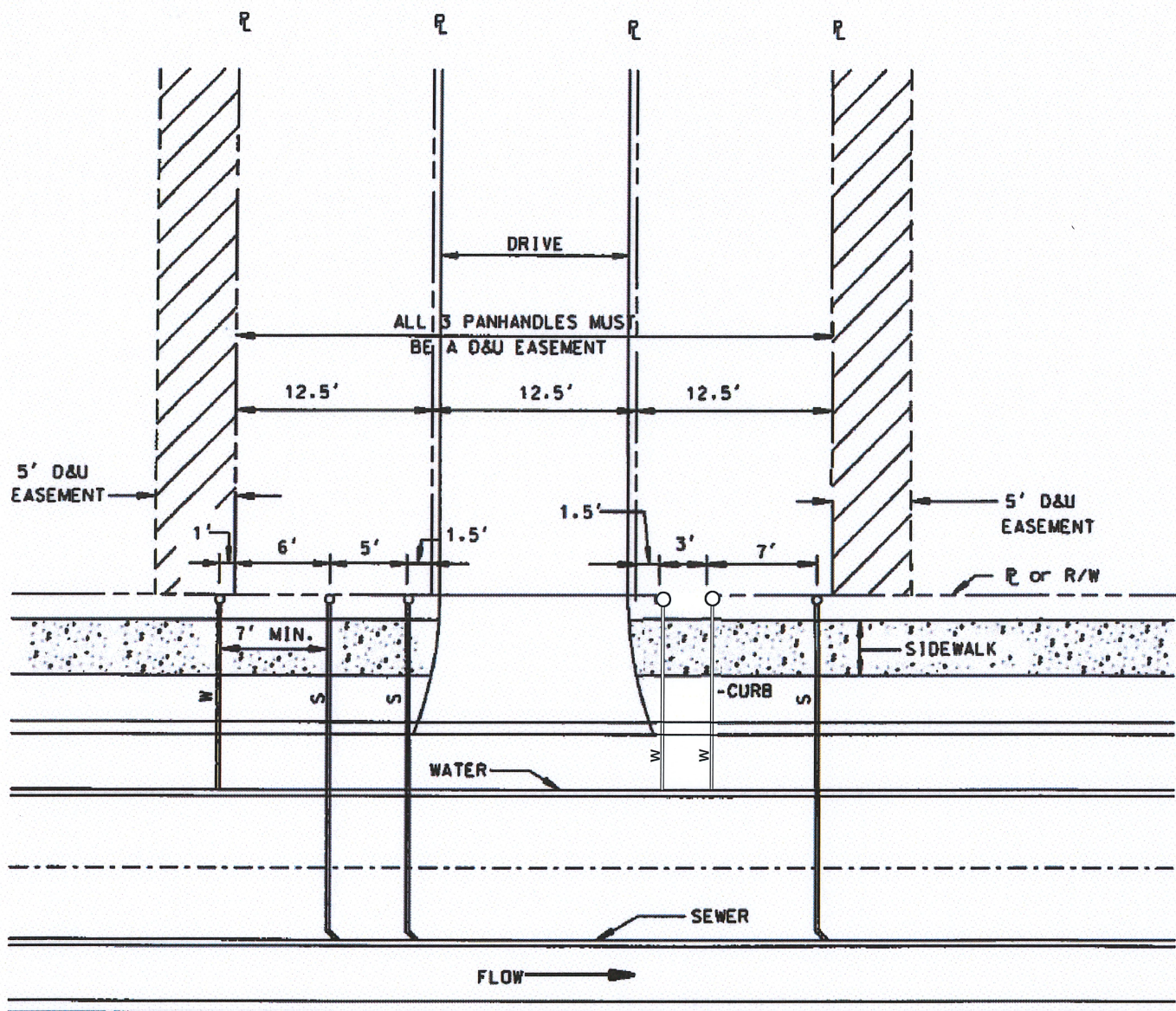
Kyle Jorsts

STANDARD WATER DETAILS

WATER AND SEWER SERVICES
FOR TOWNHOUSE LOTS WITH
7' OR LESS BETWEEN DRIVEWAYS

CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS

PLATE **G-3a**



3 PANHANDLE LOTS

NOT TO SCALE

NOTES:

1. METERS TO BE SUPPLIED WITH INDIVIDUAL SERVICE LINES
2. TWIN CONNECTIONS & SHARED SERVICES NOT PERMITTED BY CITY OF ABERDEEN



CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS

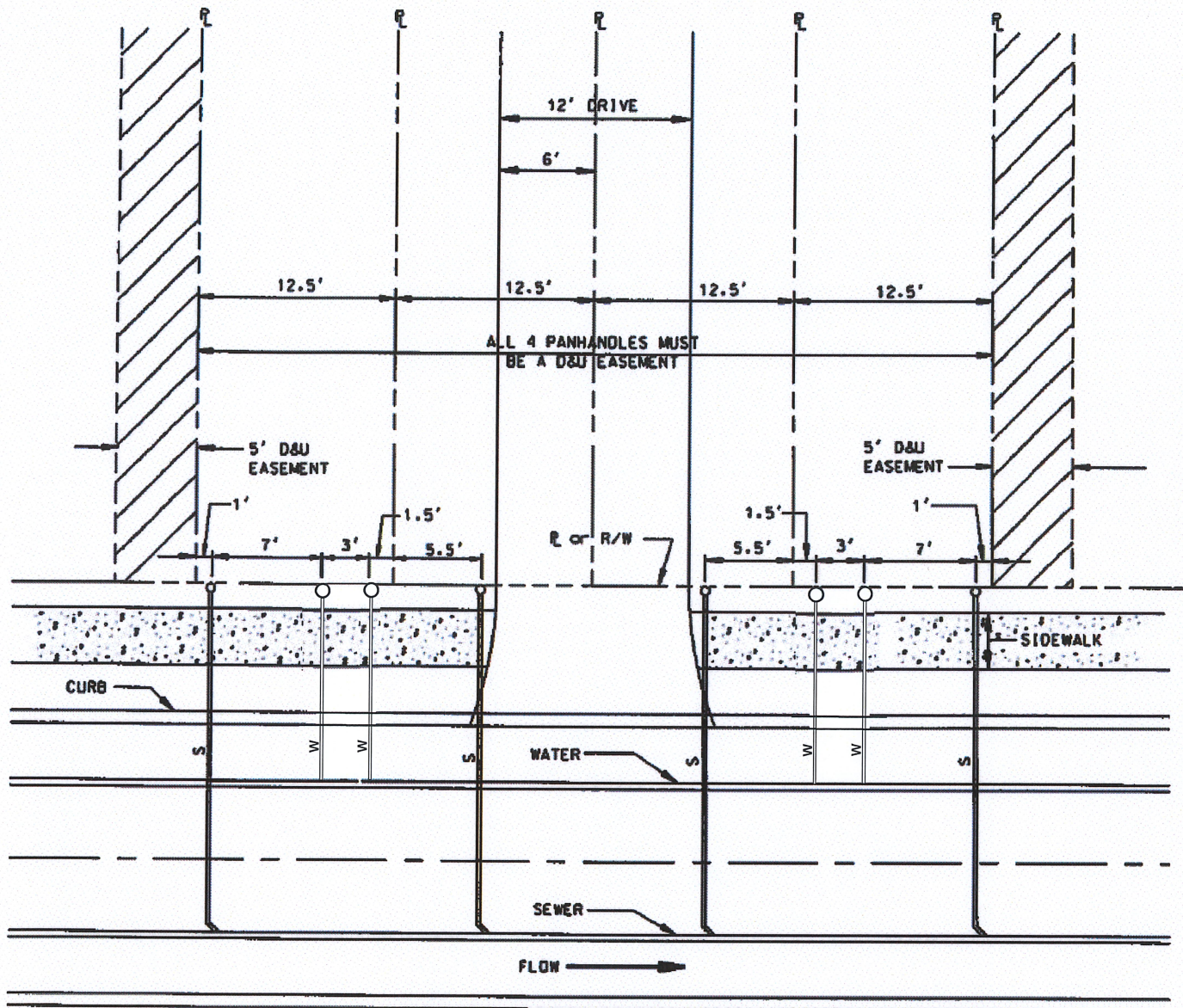
Kyle Torster

STANDARD WATER DETAILS

WATER AND SEWER SERVICES
FOR THREE PANHANDLE LOTS

CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS

PLATE **G-5**



4 PANHANDLE LOTS

NOT TO SCALE

NOTES:

1. METERS TO BE SUPPLIED WITH INDIVIDUAL SERVICE LINES
2. TWIN CONNECTIONS & SHARED SERVICES NOT PERMITTED BY CITY OF ABERDEEN



CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS

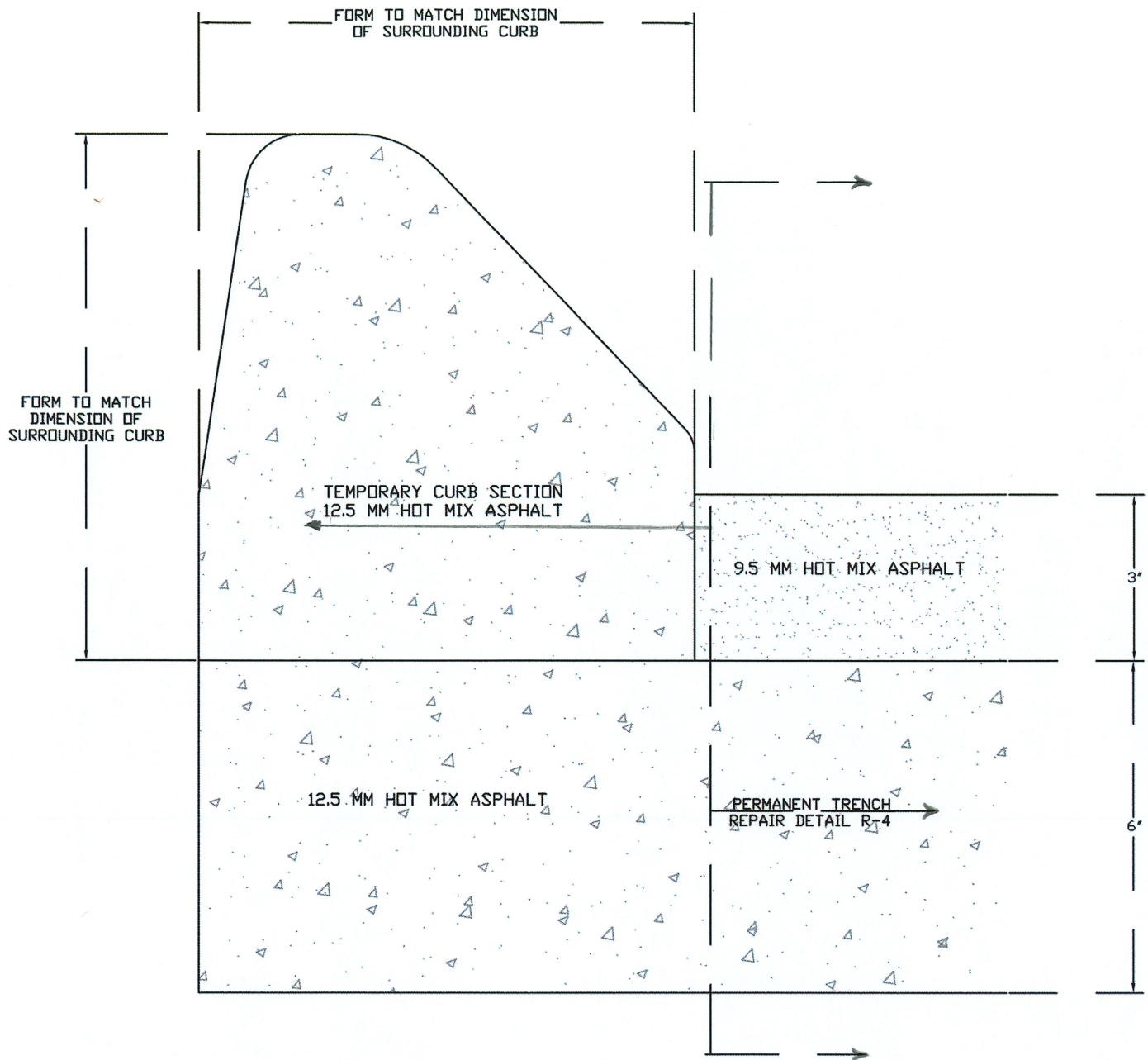
Kyle Torster

STANDARD WATER DETAILS

WATER AND SEWER SERVICES
FOR FOUR PANHANDLE LOTS

CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS

PLATE G-6



NOTES:

1. THIS DETAIL FOR USE ONLY IN SPECIFIC SCENARIOS WITH EXPRESSED CITY APPROVAL.
2. TEMPORARY CURB TO BE INSTALLED AS PART OF PERMANENT TRENCH REPAIR DETAIL R-4.
3. THIS METHOD SHALL ONLY BE USED IN PLACE OF CURB THAT WAS REMOVED FOR UTILITY INSTALL.
4. CURB SHALL BE CONSTRUCTED OF 12.5 MM HOT MIX AND FORMED TO MATCH DIMENSIONS OF SURROUNDING CURB.
5. TEMPORARY CURB SECTION (OUTSIDE OF R-4 DETAIL) SHALL BE INSTALLED USING BEST COMPACTED EFFORT.



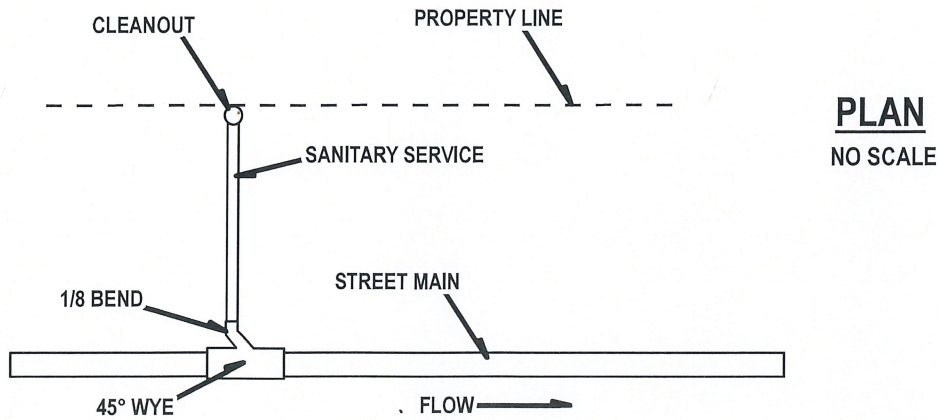
CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS

EWB 5/7/26

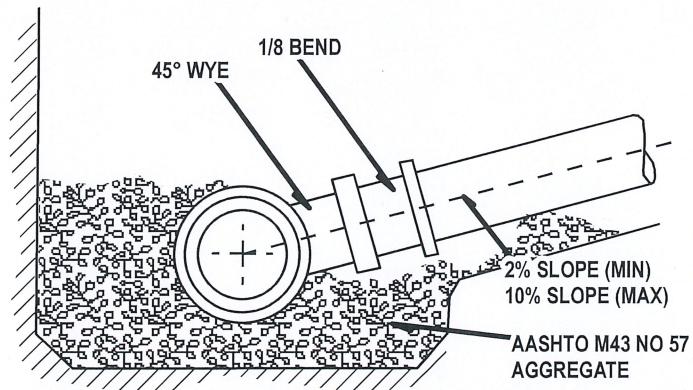
**METHOD OF TEMPORARY
ASPHALT CURB INSTALLATION**

CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS

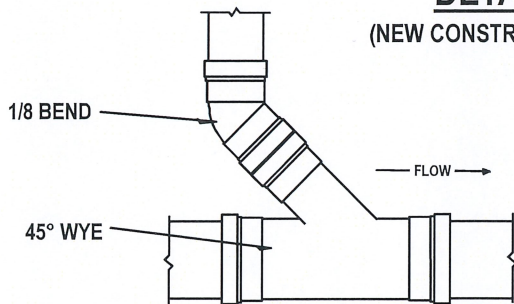
PLATE **S-3a**



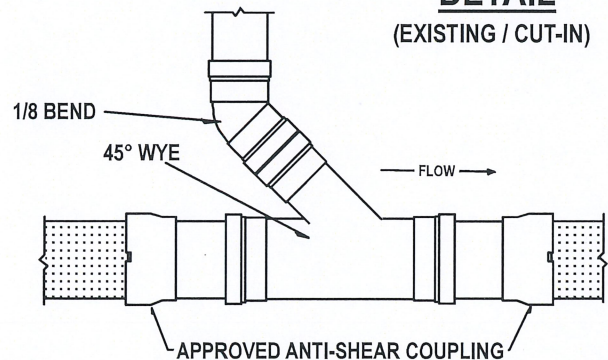
SECTION
NO SCALE



DETAIL
(NEW CONSTRUCTION)



DETAIL
(EXISTING / CUT-IN)



NOTES:

1. WHEN CONNECTING TO EXISTING MAIN, CUT-IN WYE SHALL WITH APPROVED FITTINGS BE USED. SEE DETAIL ABOVE.
2. TRENCH TO BE COMPACTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
3. ALL PIPE AND FITTINGS SHALL BE SDR-26 FROM THE WYE ON THE MAIN TO THE CLEAN OUT.
4. CONNECTION TO MAIN MUST BE A WYE CONNECTION ALIGNED WITH DIRECTION OF FLOW. TEE FITTINGS ARE NOT PERMITTED.
5. 90° BENDS ARE NOT PERMITTED. 45° BENDS SHALL BE USED.



CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS

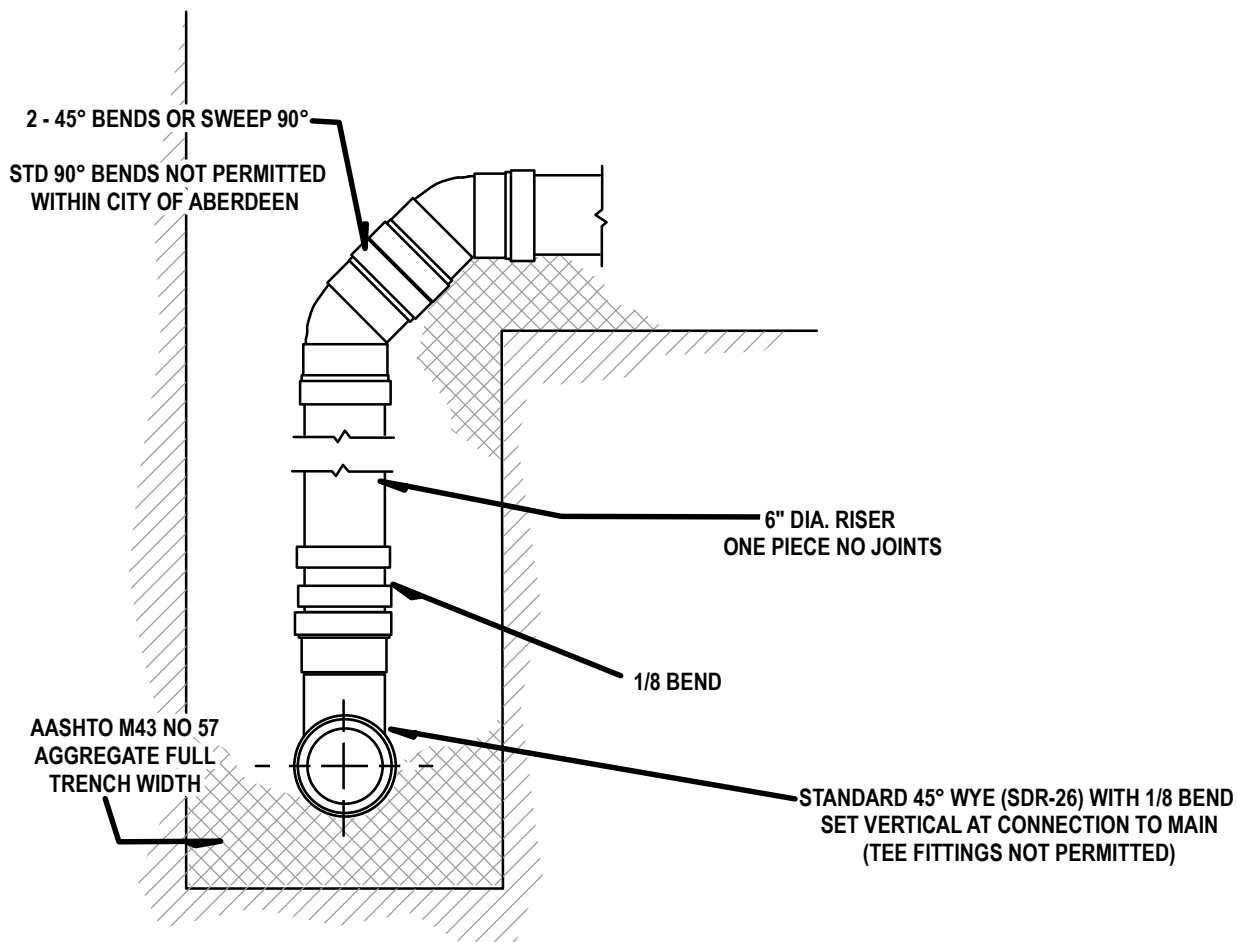
Kyle Jorste

STANDARD SEWER DETAILS

HOUSE SERVICE CONNECTION
AT SEWER MAIN

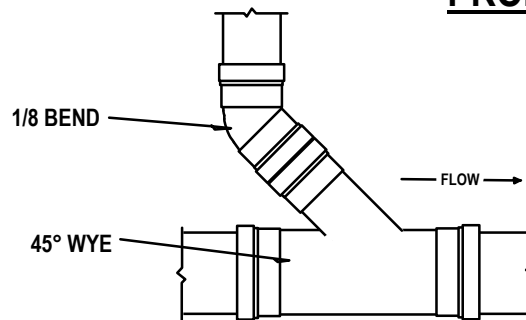
CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS

PLATE **S-20**



SECTION

PROFILE



NOTES:

1. VERTICAL DROP CONNECTIONS AT MAIN SHALL ONLY BE USED AS PERMITTED BY THE CITY OF ABERDEEN. (PLATE S-20 SHALL BE THE PRIMARY METHOD USED. PLATE S-21A NOT PERMITTED WITHIN CITY OF ABERDEEN.)
2. TRENCH TO BE COMPACTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
3. ALL PIPE AND FITTINGS SHALL BE SDR-26 FROM THE WYE ON THE MAIN TO THE CLEAN OUT.
4. CONNECTION TO MAIN MUST BE A WYE CONNECTION ALIGNED WITH DIRECTION OF FLOW. TEE FITTINGS ARE NOT PERMITTED.
5. STANDARD 90° BENDS ARE NOT PERMITTED. TWO 45° BENDS OR A LONG-SWEEP 90° BEND SHALL BE USED INSTEAD.



CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS

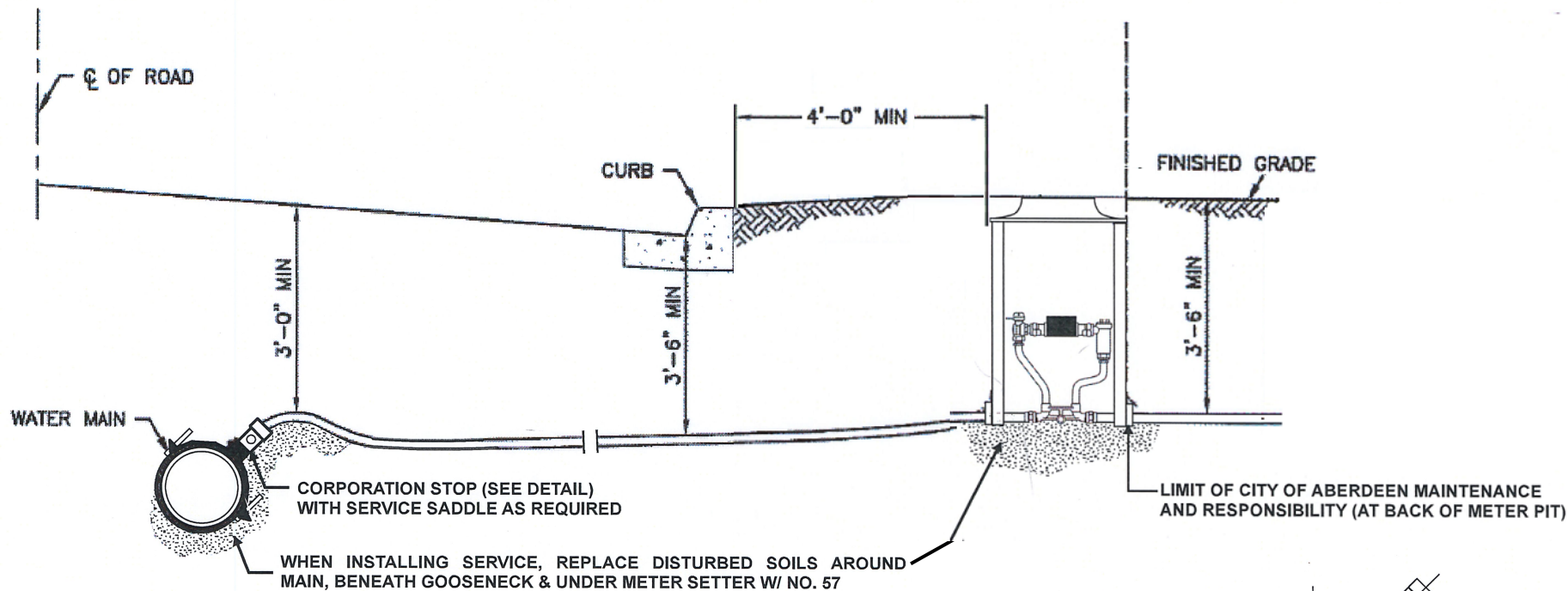
Kyle J. Jost

STANDARD SEWER DETAILS

**PVC DROP HOUSE
SERVICE CONNECTION
AT SEWER MAIN**

**CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS**

PLATE S-21



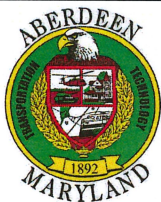
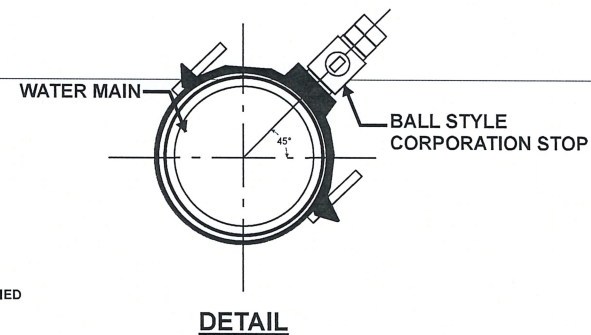
NOTES:

1. MINIMUM PIPE SIZES ARE SPECIFIED
2. ALL BRASS FITTINGS TO BE COMPRESSION TYPE ONLY
3. DIRECT TAPPING OF MAINS IS NOT PERMITTED, APPROVED TAPPING SADDLE AND CORP MUST BE USED
4. METER PIT SHALL NOT BE PLACED IN DRIVEWAYS, STEPS, OR SIDEWALKS
5. SERVICE LINE FROM MAIN TO METER PIT SHALL BE ONE CONTINUOUS PIECE (NO JOINTS)
6. THE LIMIT OF CITY OF ABERDEEN RESPONSIBILITY IS THE METER VAULT

WATER SERVICES FOR TOWNHOUSES AND SINGLE FAMILY LOTS

1" COPPER TUBING FOR SINGLE HOUSE CONNECTIONS
(TWIN HOUSE CONNECTIONS NOT PERMITTED)

1" COPPER TUBING SHALL BE USED UNLESS OTHERWISE SPECIFIED
BY FIRE PROTECTION REQUIREMENTS



**CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS**

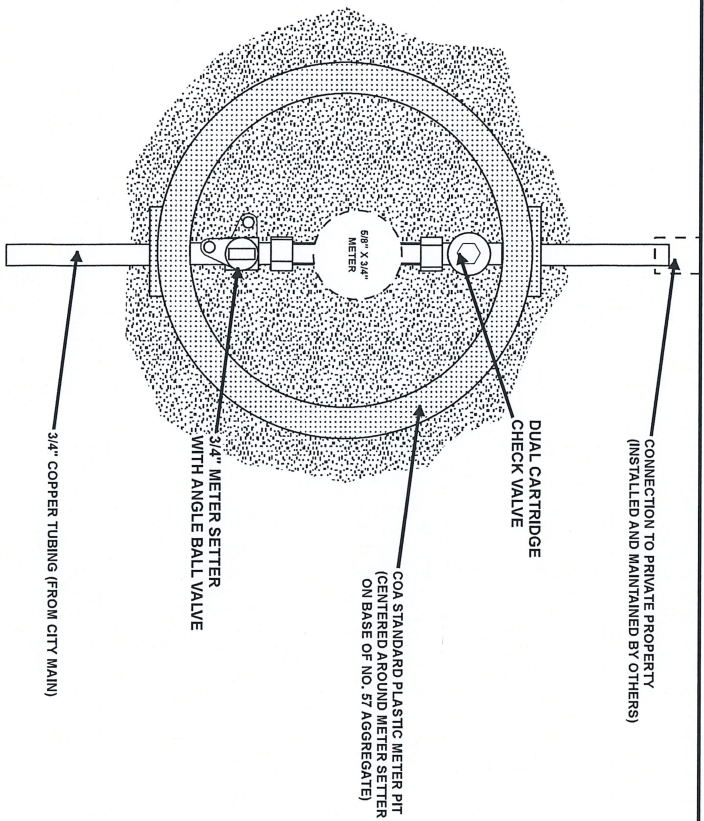
Kyle Jost

STANDARD WATER DETAILS

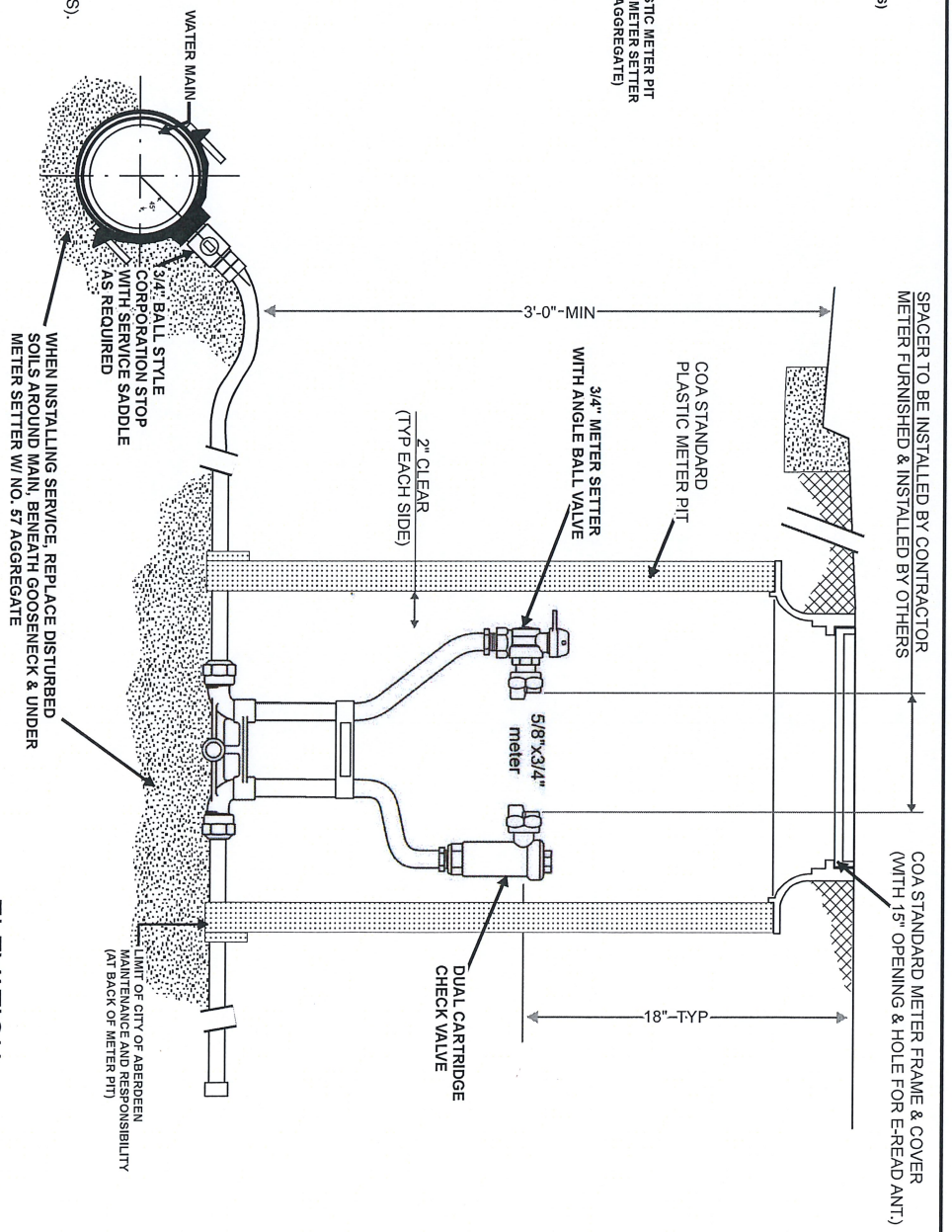
**STANDARD SERVICE CONNECTION
WITH METER PIT**

**CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS**

PLATE **W-17**



PLAN



ELEVATION

- NOTES:**
1. ALL FITTINGS TO BE COMPRESSION FITTINGS.
 2. SERVICE LINE FROM MAIN TO METER SHALL BE ONE CONTINUOUS PIECE (NO JOINTS).
 3. PROVIDE 3'-6" COVER OVER SERVICE LINE EXCEPT WHERE SHOWN OTHERWISE.
 4. METER PITS SHALL NOT BE LOCATED IN DRIVEWAYS, SIDEWALKS OR STEPS.
 5. THE LIMIT OF CITY OF ABERDEEN RESPONSIBILITY IS AT THE BACK OF THE METER PIT.
 6. SPRINKLER SYSTEM REQUIREMENTS DETERMINED BY FIRE PROTECTION PROFESSIONAL.

CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS

W. J. Jouts

STANDARD WATER DETAILS

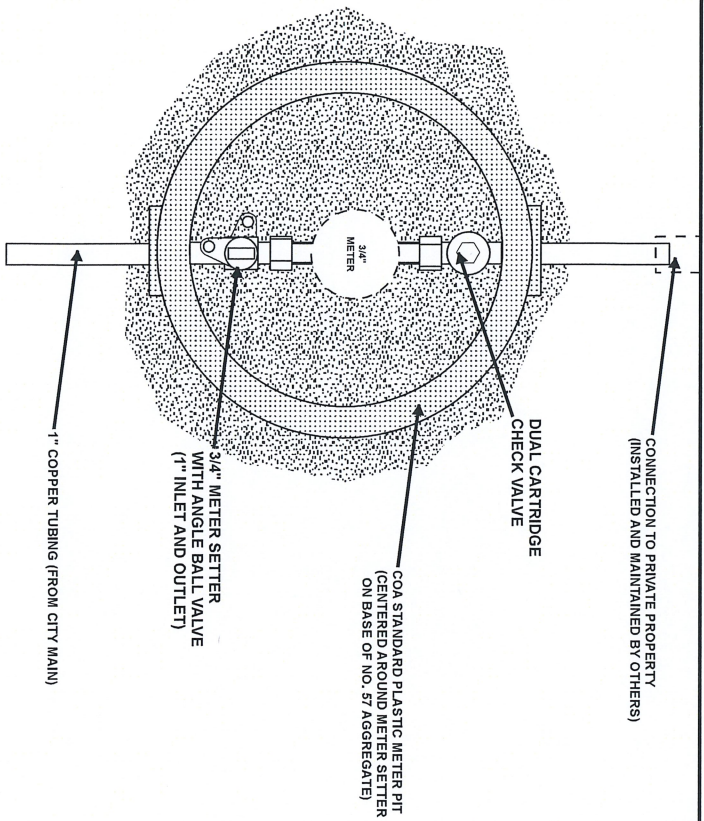
OUTSIDE SETTING

3/4" SUPPLY WITH 5/8"x3/4" METER

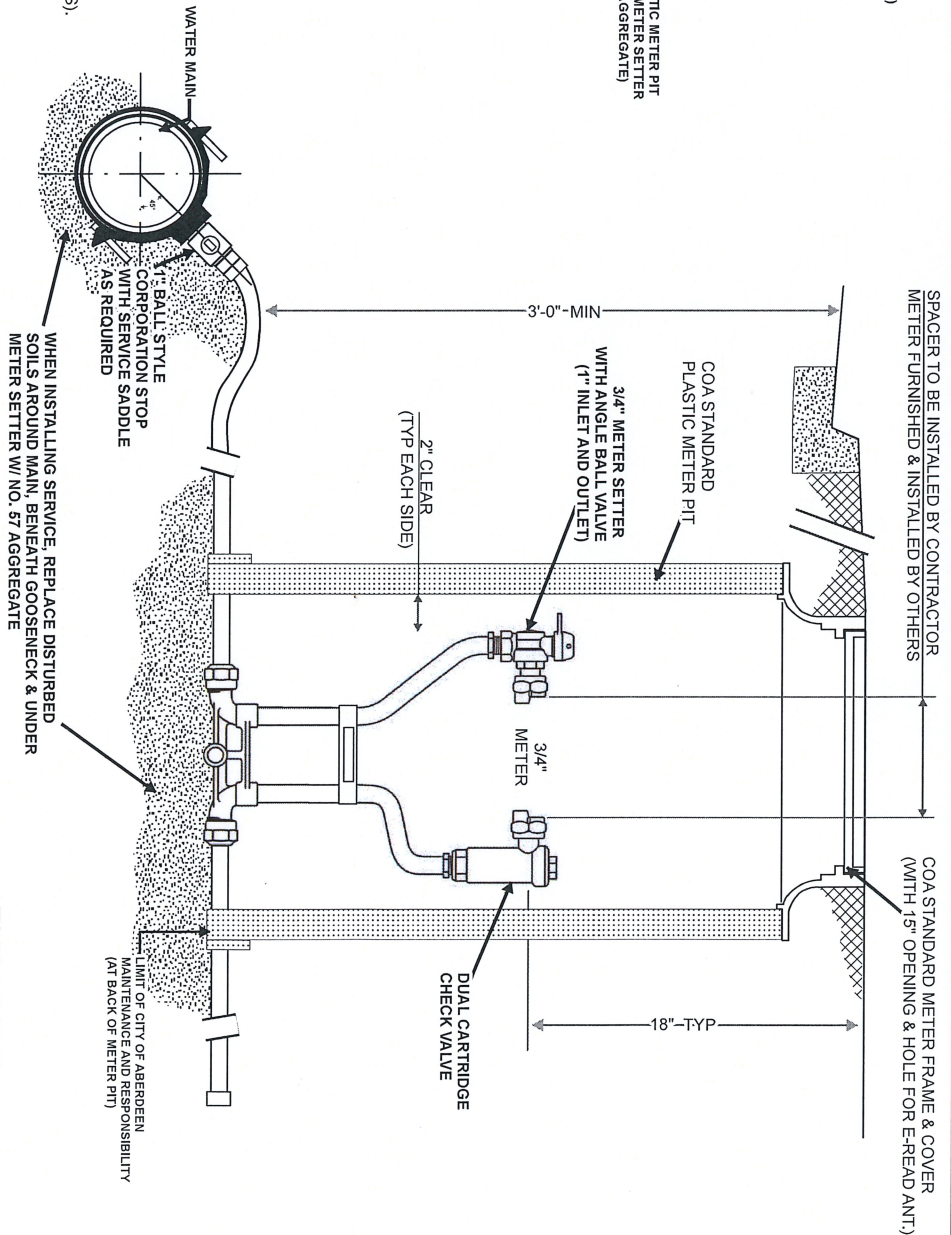
(DOMESTIC SERVICE WITHOUT SPRINKLER SERVICE)

CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS

PLATE W-18



PLAN



ELEVATION

NOTES:

1. ALL FITTINGS TO BE COMPRESSION FITTINGS.
2. SERVICE LINE FROM MAIN TO METER SHALL BE ONE CONTINUOUS PIECE (NO JOINTS).
3. PROVIDE 3'-6" COVER OVER SERVICE LINE EXCEPT WHERE SHOWN OTHERWISE.
4. METER PITS SHALL NOT BE LOCATED IN DRIVEWAYS, SIDEWALKS OR STEPS.
5. THE LIMIT OF CITY OF ABERDEEN RESPONSIBILITY IS AT THE BACK OF THE METER PIT.
6. SPRINKLER SYSTEM REQUIREMENTS DETERMINED BY FIRE PROTECTION PROFESSIONAL.

STANDARD WATER DETAILS

OUTSIDE SETTING
1" SUPPLY WITH 3/4" METER
(DOMESTIC SERVICE WITH SPRINKLER SERVICE)

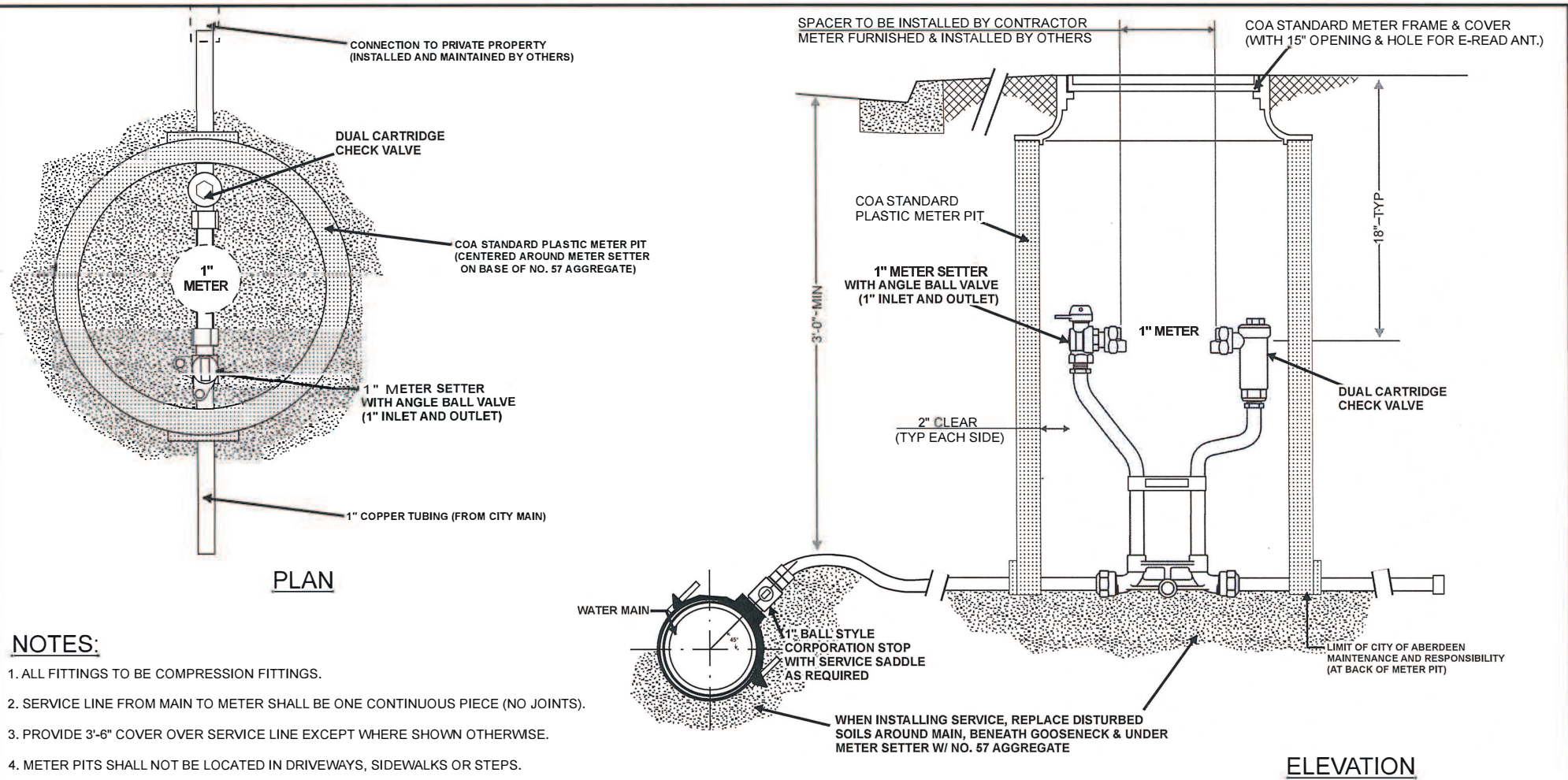


CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS

R. J. J. J.

CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS

PLATE W-19



NOTES:

1. ALL FITTINGS TO BE COMPRESSION FITTINGS.
2. SERVICE LINE FROM MAIN TO METER SHALL BE ONE CONTINUOUS PIECE (NO JOINTS).
3. PROVIDE 3'-6" COVER OVER SERVICE LINE EXCEPT WHERE SHOWN OTHERWISE.
4. METER PITS SHALL NOT BE LOCATED IN DRIVEWAYS, SIDEWALKS OR STEPS.
5. THE LIMIT OF CITY OF ABERDEEN RESPONSIBILITY IS AT THE BACK OF THE METER PIT.
6. SPRINKLER SYSTEM REQUIREMENTS DETERMINED BY FIRE PROTECTION PROFESSIONAL.



**CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS**

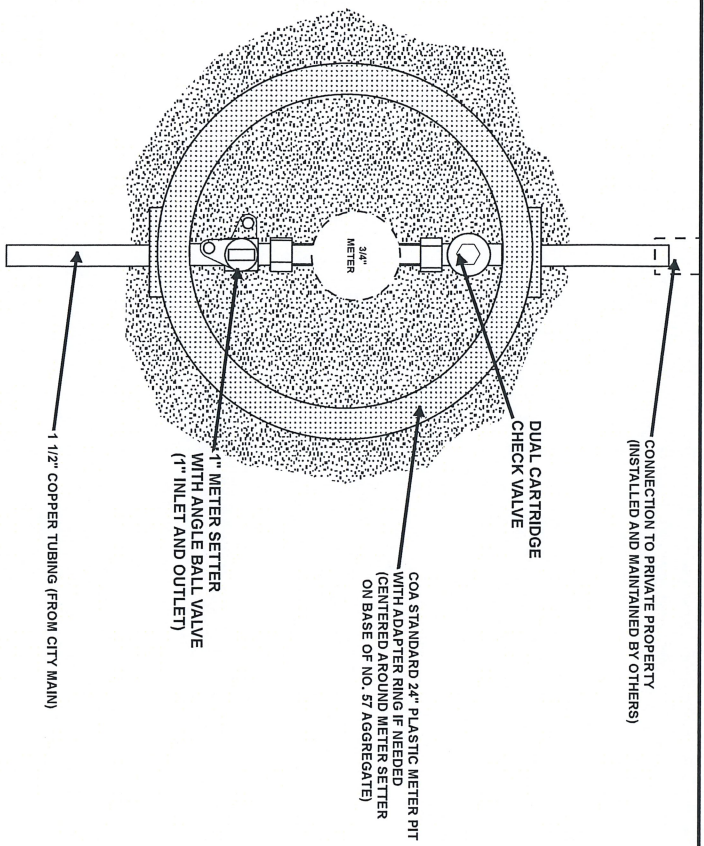
Kyle Jouts

STANDARD WATER DETAILS

**OUTSIDE SETTING
1" SUPPLY WITH 1" METER
(DOMESTIC SERVICE WITH SPRINKLER SERVICE)**

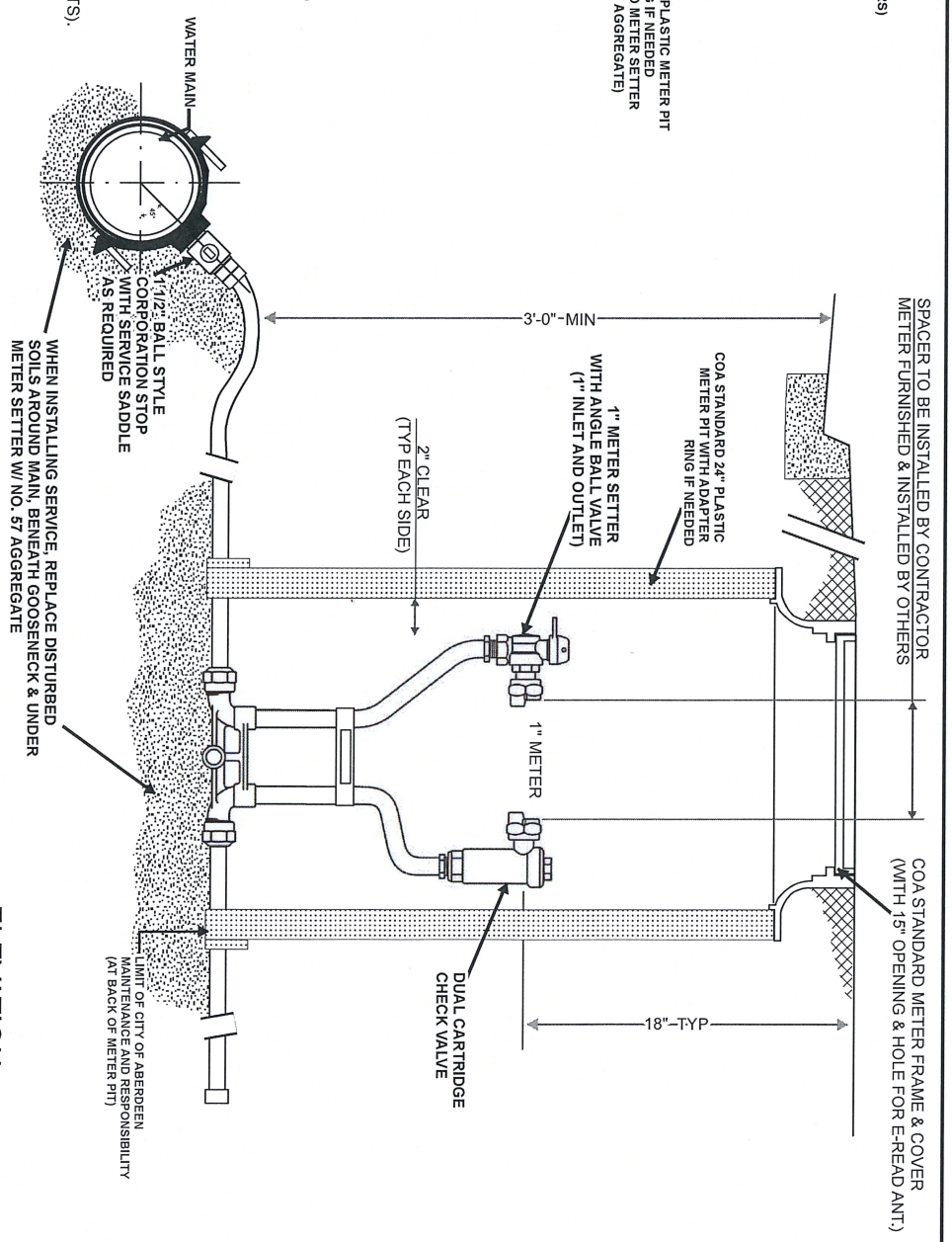
**CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS**

PLATE **W-19A**



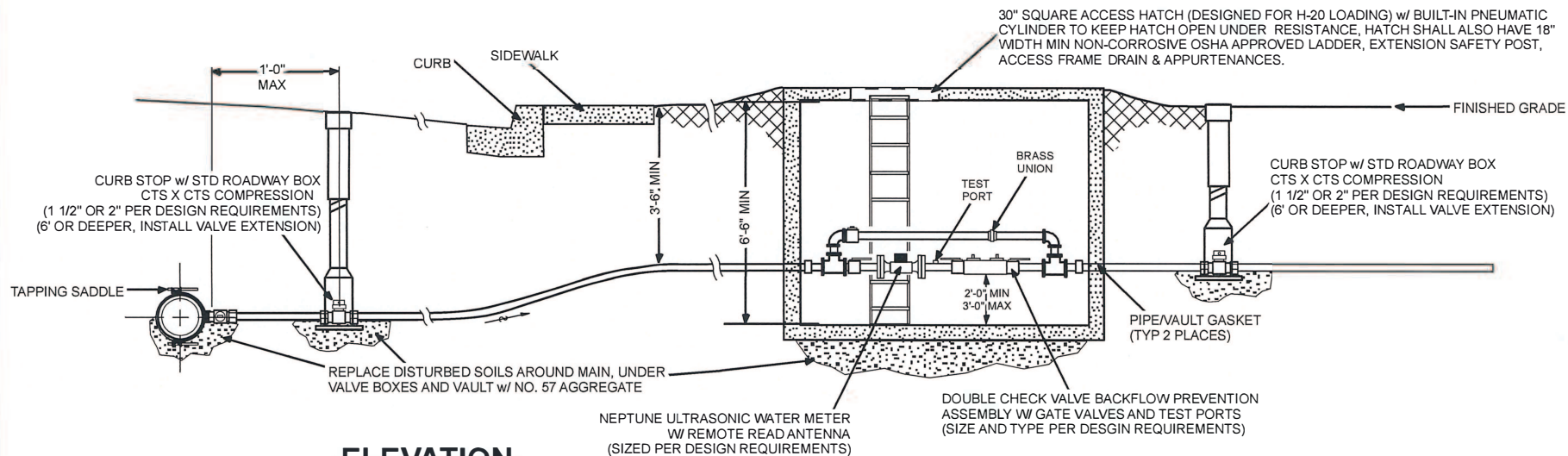
PLAN

- NOTES:**
1. ALL FITTINGS TO BE COMPRESSION FITTINGS.
 2. SERVICE LINE FROM MAIN TO METER SHALL BE ONE CONTINUOUS PIECE (NO JOINTS).
 3. PROVIDE 3'-6" COVER OVER SERVICE LINE EXCEPT WHERE SHOWN OTHERWISE.
 4. METER PITS SHALL NOT BE LOCATED IN DRIVEWAYS, SIDEWALKS OR STEPS.
 5. THE LIMIT OF CITY OF ABERDEEN RESPONSIBILITY IS AT THE BACK OF THE METER PIT.
 6. SPRINKLER SYSTEM REQUIREMENTS DETERMINED BY FIRE PROTECTION PROFESSIONAL.

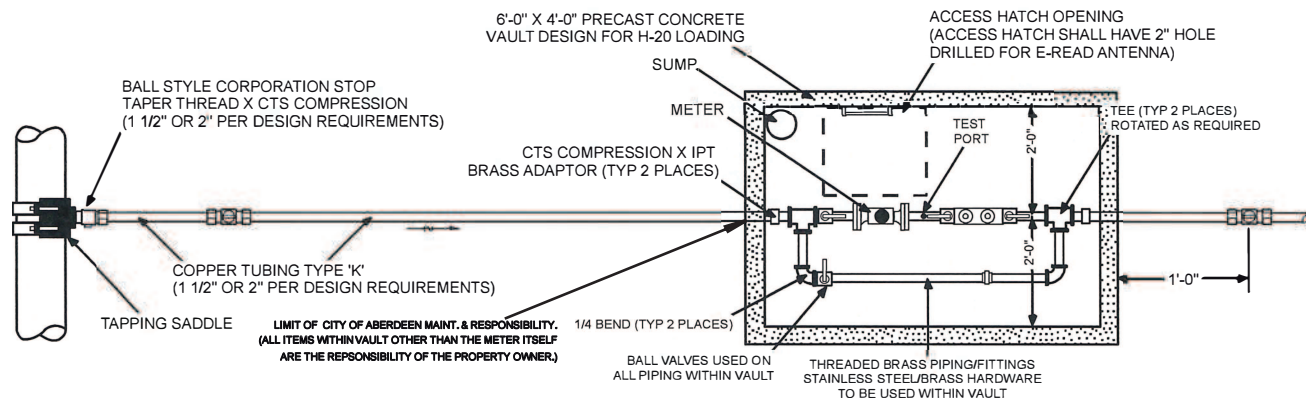


ELEVATION

 CITY OF ABERDEEN DEPARTMENT OF PUBLIC WORKS <i>He Jones</i>	STANDARD WATER DETAILS OUTSIDE SETTING 1 1/2" SUPPLY WITH 1" METER (DOMESTIC SERVICE WITH SPRINKLER SERVICE)	CITY OF ABERDEEN ADDENDUM TO HARFORD COUNTY STANDARD DETAILS PLATE W-22
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ELEVATION



PLAN

NOTES:

1. PERMANENT BRICK, CONCRETE OR APPROVED PRECAST PIPE SUPPORTS (NOT SHOWN) TO BE PLACED UNDER ALL FLANGED FITTINGS AND AS DIRECTED BY THE CITY OR COUNTY.
2. ALL FITTINGS AND PIPE WITHIN VAULT SHALL BE BRASS WITH APPROPRIATE ADAPTORS
3. SET VAULT ON A LEVELING COURSE OF AASHTO M43 SIZE 57 AGGREGATE
4. PROVIDE POSITIVE DRAINAGE AWAY FROM VAULT.
5. SIMILAR DESIGN OF PIPING AND EQUIPMENT FOR COMMERCIAL INTERIOR BUILDING INSTALLATIONS.
6. TYPE 'K' COPPER TUBING SHALL BE CONTINUOUS BETWEEN MAIN, VALVE AND VAULT, ETC. USING SPECIFICALLY ORDERED MAXIMUM AVAILABLE LENGTHS.
7. SUMP SHALL HAVE AN 8" MINIMUM DIAMETER AND A 4" MINIMUM DEPTH.
8. SOLDERED COPPER JOINTS ARE PROHIBITED.
9. PRIOR TO ORDERING THE METER, VAULT AND BACKFLOW PREVENTER, THE CONTRACTOR SHALL MEET WITH CITY AND COUNTY PERSONNEL TO DISCUSS INSTALLATION REQUIREMENTS.
10. THE EXTERIOR OF THE CONCRETE VAULT SHALL HAVE A FACTORY APPLIED BITUMINOUS COATING.



**CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS**

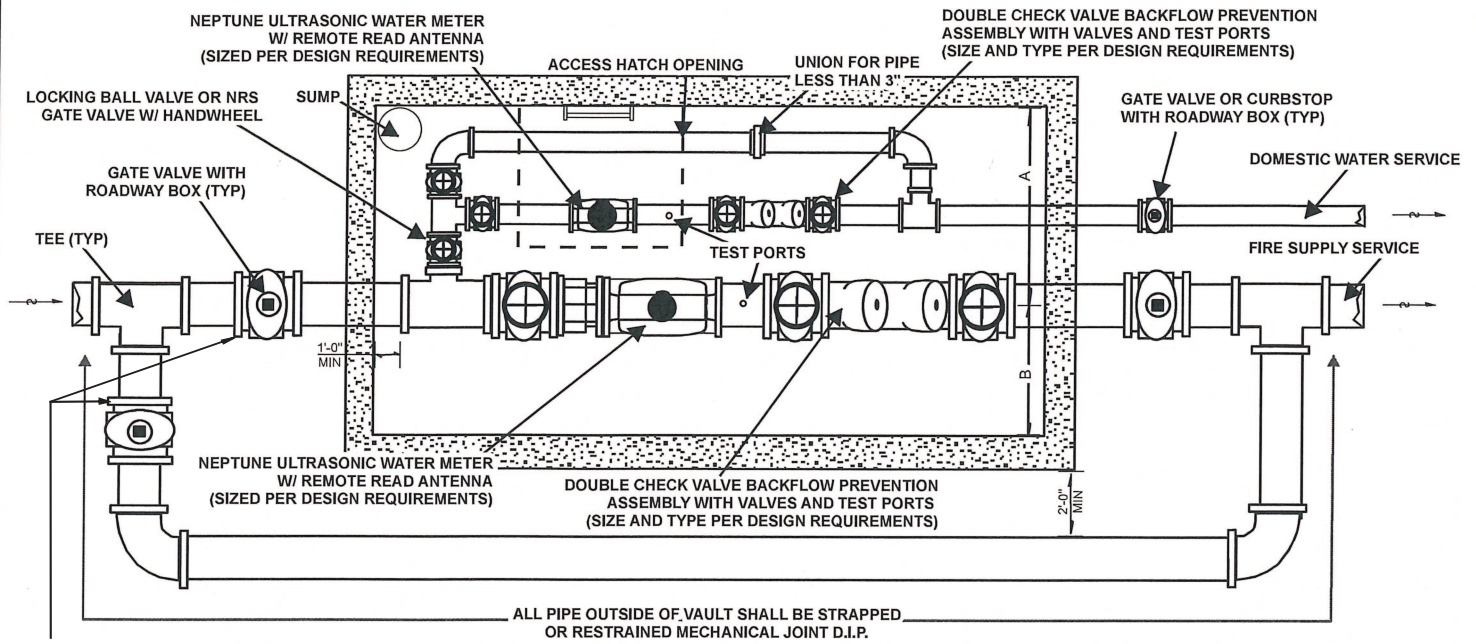
Kyle Jorates

STANDARD WATER DETAILS

**OUTSIDE SETTING
1 1/2" AND 2" METERED SERVICE**

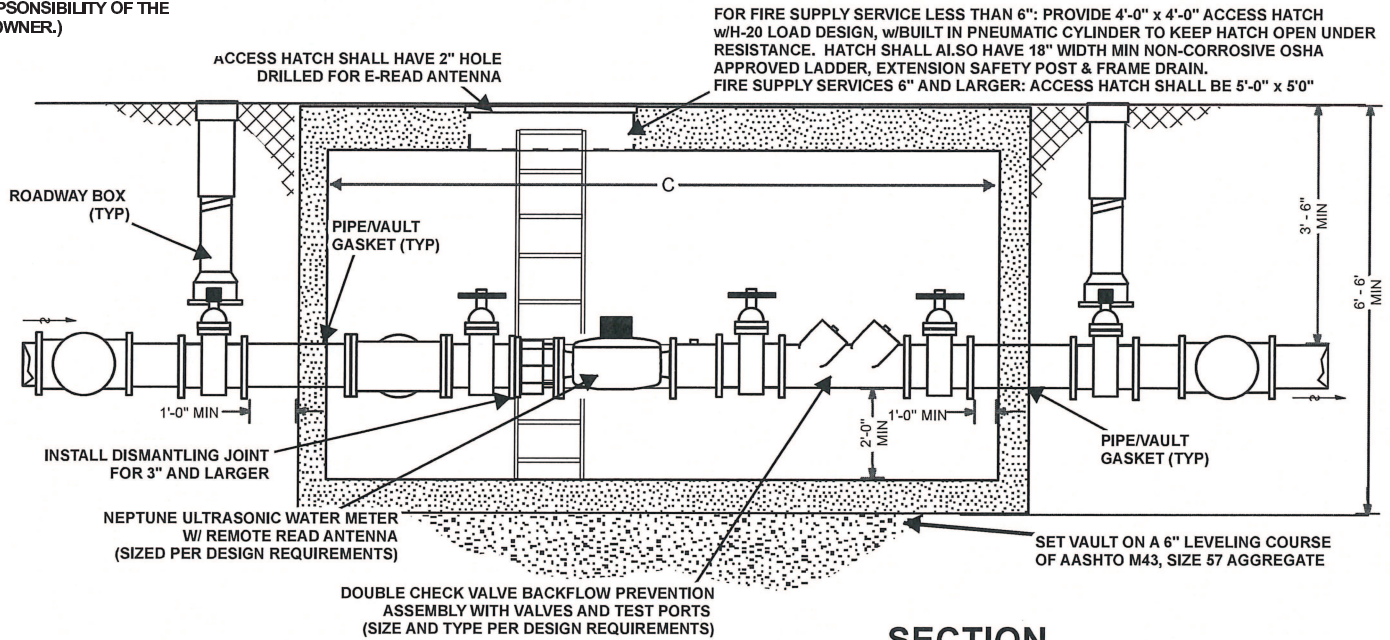
**CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS**

PLATE W-23



PLAN

LIMIT OF CITY OF ABERDEEN MAINT. & RESPONSIBILITY. (ALL ITEMS WITHIN VAULT OTHER THAN THE METER ITSELF ARE THE RESPONSIBILITY OF THE PROPERTY OWNER.)



SECTION

NOTES:

- PERMANENT BRICK, CONCRETE OR APPROVED PRECAST PIPE SUPPORTS (NOT SHOWN) TO BE PLACED UNDER ALL FLANGED FITTINGS AND AS DIRECTED BY CITY AND COUNTY.
- LOADS: LL = AASHTO H-20, D.L = EARTH @ 110 LBS PER CU FT AND 42 LBS PER CU FT EQUIVALENT FLUID PRESSURE. CONCRETE AND REINFORCING SHALL CONFORM TO STANDARD SPECIFICATIONS.
- PROVIDE POSITIVE DRAINAGE AWAY FROM VAULT.
- FOR INTERIOR COMMERCIAL INSTALLATION, A REDUCED PRESSURE DETECTOR BACKFLOW PREVENTION ASSEMBLY MAY BE REQUIRED.
- ALL PIPE WITHIN THE VAULT SHALL BE FLANGED. FLANGES AND METERS SHALL RECEIVE STAINLESS STEEL BOLTS AND BRASS NUTS.
- ALL FITTINGS TO BE BRASS OR DUCTILE IRON.
- SUMP SHALL HAVE AN 8" MIN DIA AND A 4" MIN DEPTH.
- PRIOR TO ORDERING THE METER AND BACKFLOW PREVENTER, THE CONTRACTOR SHALL MEET WITH CITY AND COUNTY PERSONNEL TO DISCUSS THE INSTALLATION REQUIREMENTS.
- THE EXTERIOR OF THE CONCRETE VAULT SHALL HAVE A FACTORY APPLIED BITUMINOUS COATING.

FIRE SERVICE BACKFLOW PREVENTER SIZE	A	B	C
3"	72	42	132
4"	73	42	144
6"	74	52	168
8"	78	54	192
10"	78	54	222



CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS

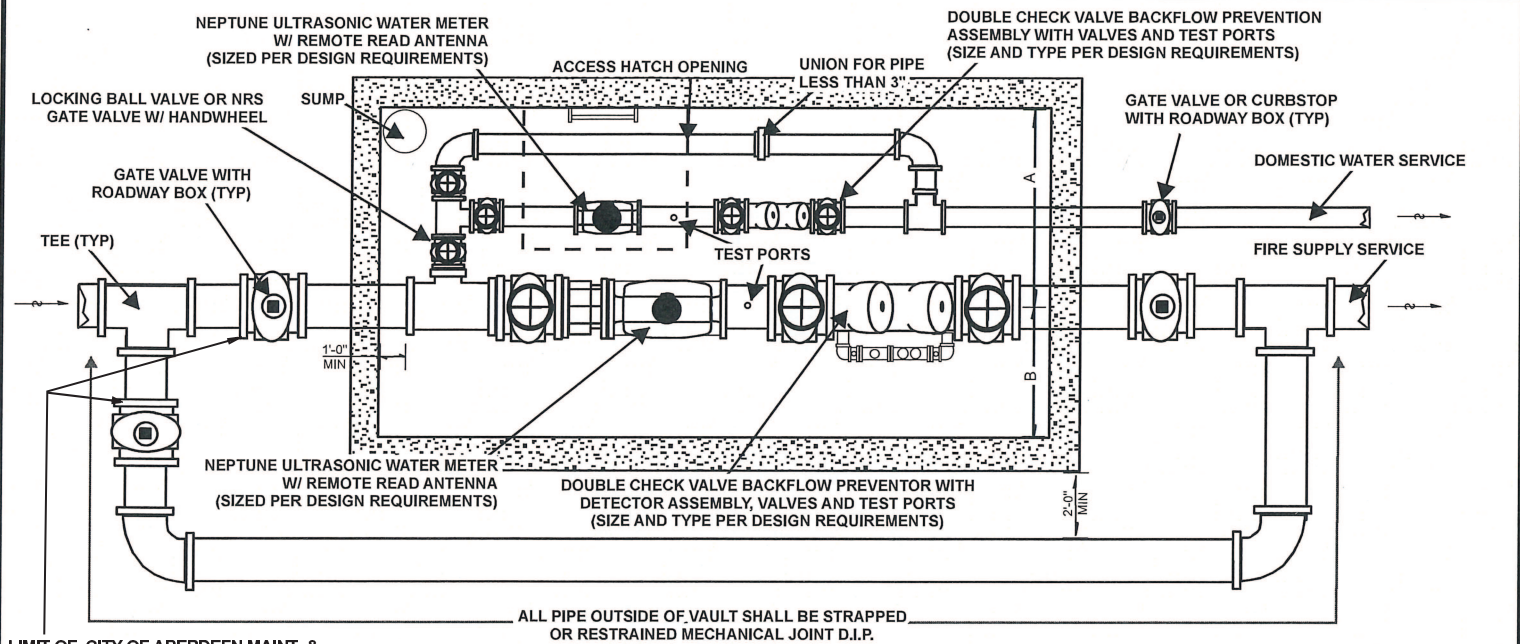
Kyle Josts

STANDARD WATER DETAILS

OPEN SYSTEM
DOMESTIC WATER SERVICE
WITH FIRE SUPPLY

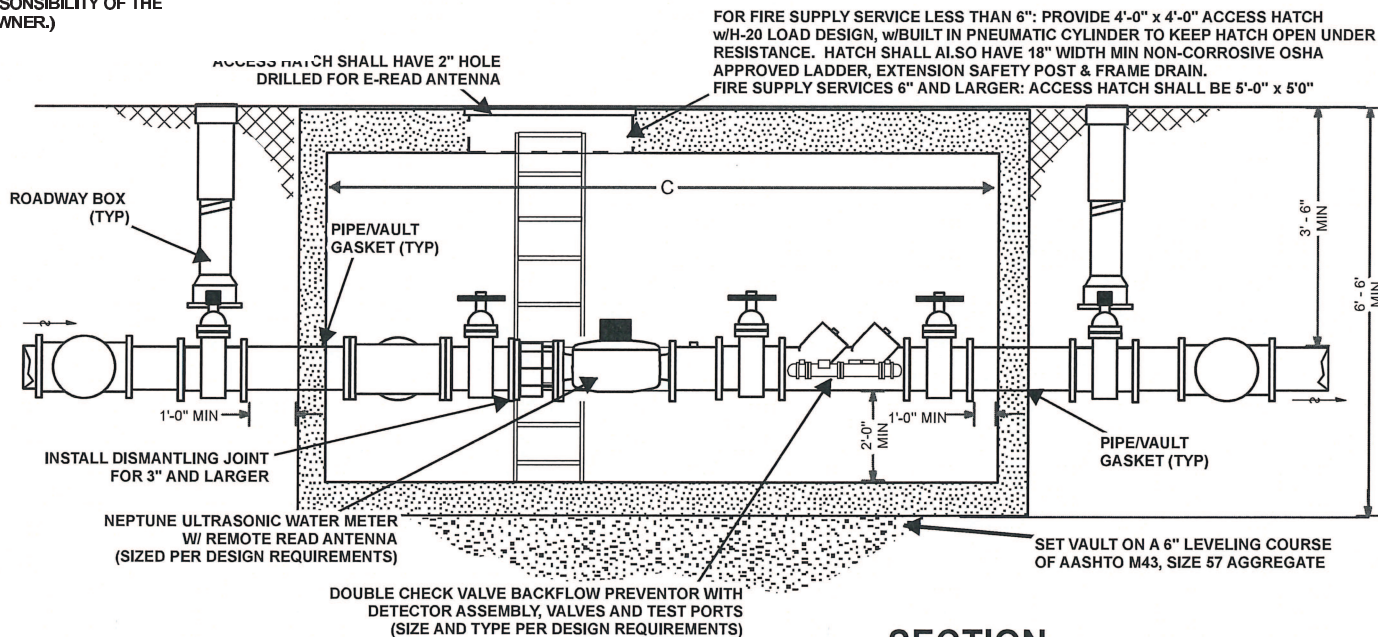
CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS

PLATE **W-24a**



PLAN

LIMIT OF CITY OF ABERDEEN MAINT. & RESPONSIBILITY. (ALL ITEMS WITHIN VAULT OTHER THAN THE METER ITSELF ARE THE RESPONSIBILITY OF THE PROPERTY OWNER.)

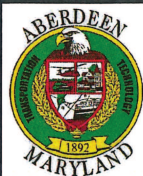


SECTION

NOTES:

1. PERMANENT BRICK, CONCRETE OR APPROVED PRECAST PIPE SUPPORTS (NOT SHOWN) TO BE PLACED UNDER ALL FLANGED FITTINGS AND AS DIRECTED BY CITY AND COUNTY.
2. LOADS: LL = AASHTO H-20, D.L = EARTH @ 110 LBS PER CU FT AND 42 LBS PER CU FT EQUIVALENT FLUID PRESSURE. CONCRETE AND REINFORCING SHALL CONFORM TO STANDARD SPECIFICATIONS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM VAULT.
4. FOR INTERIOR COMMERCIAL INSTALLATION, A REDUCED PRESSURE DETECTOR BACKFLOW PREVENTION ASSEMBLY MAY BE REQUIRED.
5. ALL PIPE WITHIN THE VAULT SHALL BE FLANGED. FLANGES AND METERS SHALL RECEIVE STAINLESS STEEL BOLTS AND BRASS NUTS.
6. ALL FITTINGS TO BE BRASS OR DUCTILE IRON.
7. SUMP SHALL HAVE AN 8" MIN DIA AND A 4" MIN DEPTH.
8. PRIOR TO ORDERING THE METER AND BACKFLOW PREVENTER, THE CONTRACTOR SHALL MEET WITH CITY AND COUNTY PERSONNEL TO DISCUSS THE INSTALLATION REQUIREMENTS.
9. THE EXTERIOR OF THE CONCRETE VAULT SHALL HAVE A FACTORY APPLIED BITUMINOUS COATING.

FIRE SERVICE BACKFLOW PREVENTER SIZE	A	B	C
3"	72	42	132
4"	73	42	144
6"	74	52	168
8"	78	54	192
10"	78	54	222



CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS

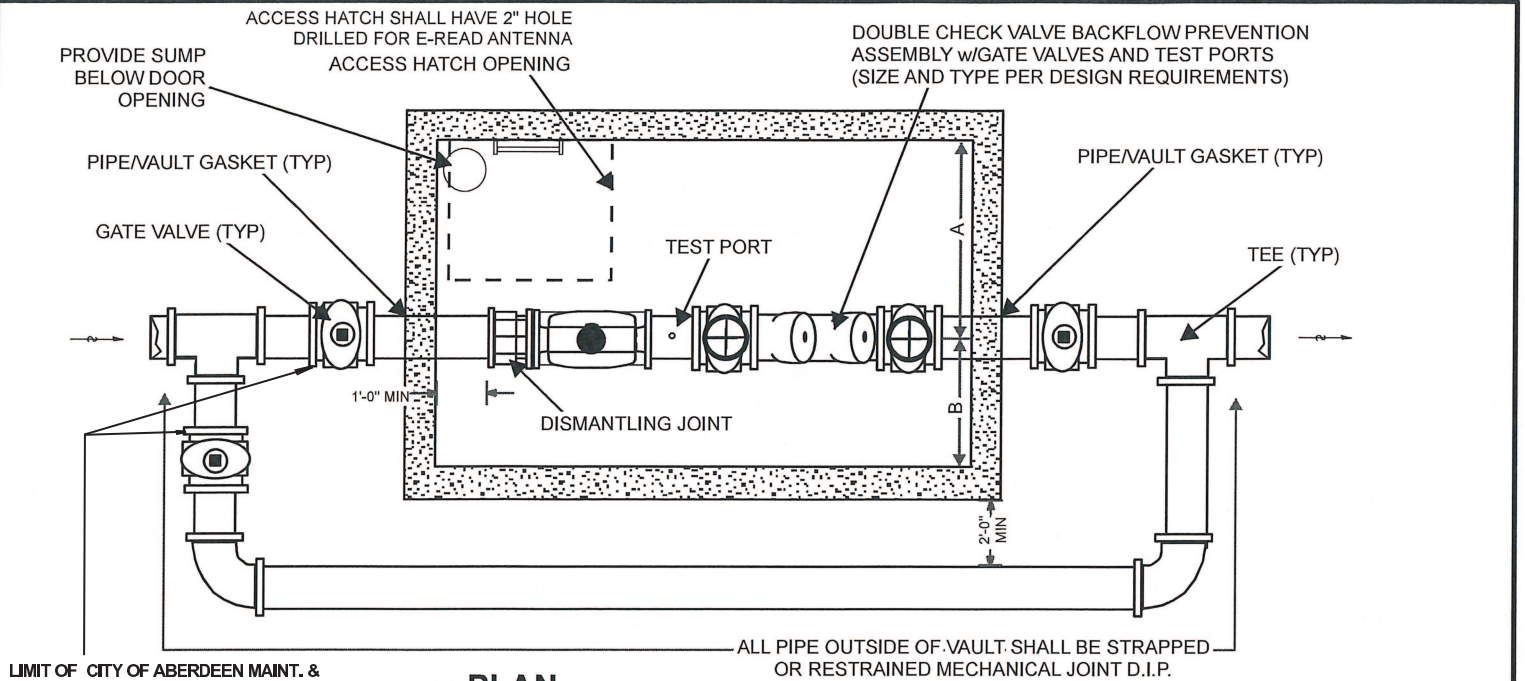
Kyle Jones

STANDARD WATER DETAILS

CLOSED SYSTEM
DOMESTIC WATER SERVICE
WITH FIRE SUPPLY

CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS

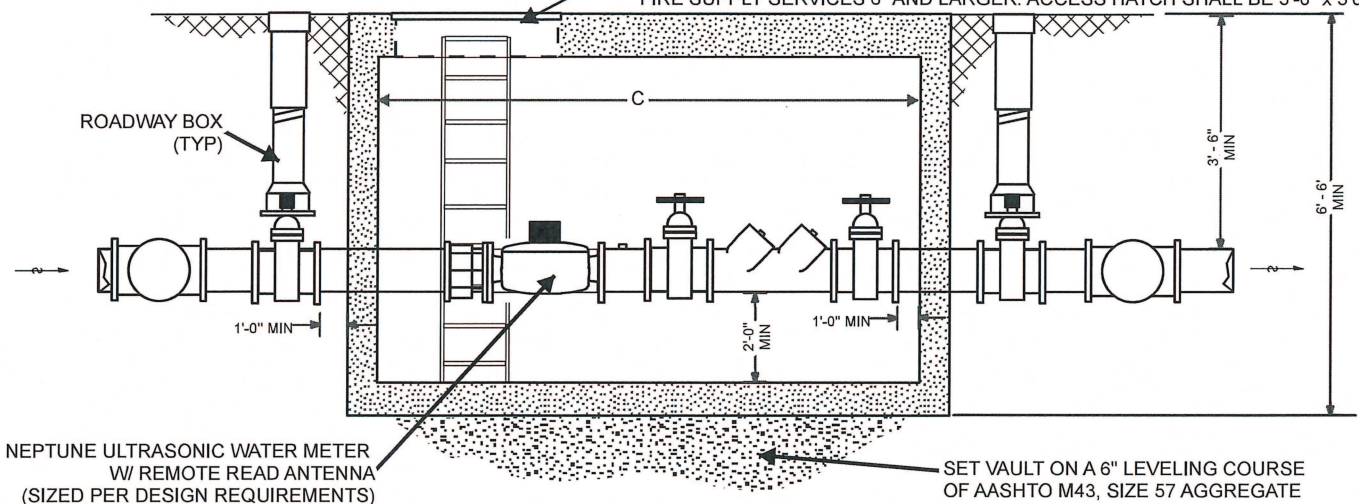
PLATE **W-24b**



LIMIT OF CITY OF ABERDEEN MAINT. & RESPONSIBILITY. (ALL ITEMS WITHIN VAULT OTHER THAN THE METER ITSELF ARE THE RESPONSIBILITY OF THE PROPERTY OWNER.)

PLAN

FOR FIRE SUPPLY SERVICE LESS THAN 6": PROVIDE 4'-0" x 4'-0" ACCESS HATCH w/H-20 LOAD DESIGN, w/BUILT IN PNEUMATIC CYLINDER TO KEEP HATCH OPEN UNDER RESISTANCE. HATCH SHALL ALSO HAVE 18" WIDTH MIN NON-CORROSIVE OSHA APPROVED LADDER, EXTENSION SAFETY POST & FRAME DRAIN. FIRE SUPPLY SERVICES 6" AND LARGER: ACCESS HATCH SHALL BE 5'-0" x 5'-0"



SECTION

NOTES:

1. PERMANENT BRICK, CONCRETE OR APPROVED PRECAST PIPE SUPPORTS (NOT SHOWN) TO BE PLACED UNDER ALL FLANGED FITTINGS AND AS DIRECTED BY CITY AND COUNTY.
2. LOADS: LL = AASHTO H-20, D.L = EARTH @ 110 LBS PER CU FT AND 42 LBS PER CU FT EQUIVALENT FLUID PRESSURE. CONCRETE AND REINFORCING SHALL CONFORM TO STANDARD SPECIFICATIONS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM VAULT.
4. FOR INTERIOR COMMERCIAL INSTALLATION, A REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY MAY BE REQUIRED.
5. ALL PIPE WITHIN THE VAULT SHALL BE FLANGED.
6. ALL FLANGES AND METERS SHALL RECEIVE STAINLESS STEEL BOLTS AND BRASS NUTS.
7. SUMP SHALL HAVE AN 8" MIN DIA AND A 4" MIN DEPTH.
8. PRIOR TO ORDERING THE METER AND BACKFLOW PREVENTER, THE CONTRACTOR SHALL MEET WITH CITY AND COUNTY PERSONNEL TO DISCUSS THE INSTALLATION REQUIREMENTS.
9. THE EXTERIOR OF THE CONCRETE VAULT SHALL HAVE A FACTORY APPLIED BITUMINOUS COATING.

BACKFLOW PREVENTER SIZE	A	B	C
3"	48	30	108
4"	47	37	120
6"	56	40	144
8"	60	42	168
10"	66	42	192
12"	66	42	192



**CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS**

Kyle Jorsts

STANDARD WATER DETAILS

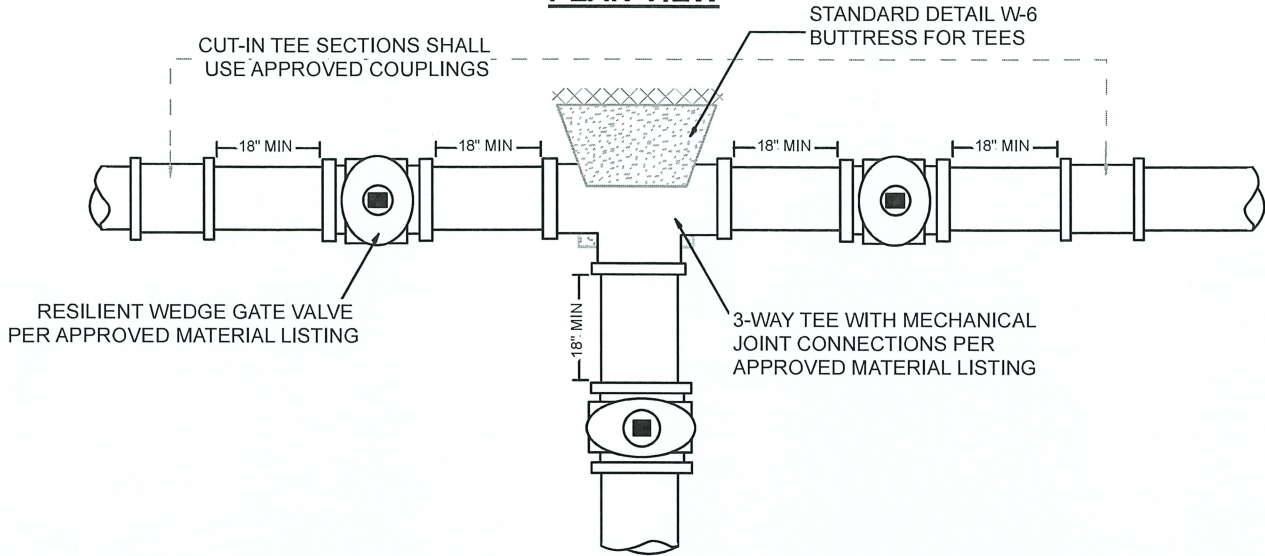
**STANDARD INSTALLATION FOR
3" THRU 10" COMBINED
FIRE AND DOMESTIC SERVICE**

**CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS**

PLATE W-25

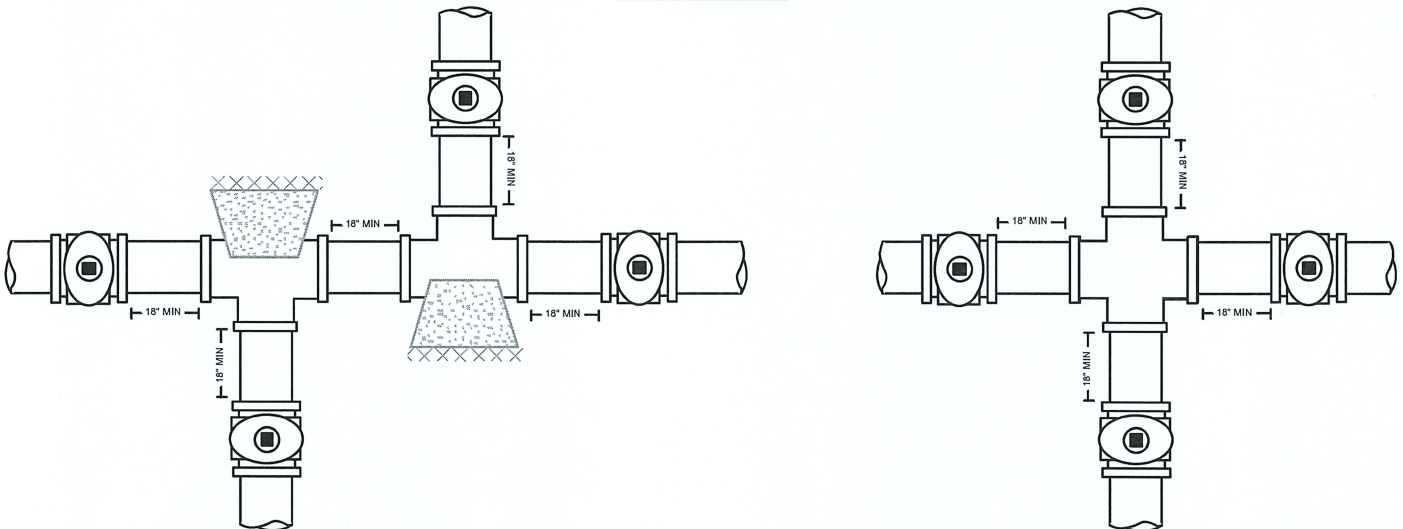
3-WAY WATER LINE INTERSECTION VALVE & TEE CONFIGURATION

PLAN VIEW



4-WAY WATER LINE INTERSECTION VALVE & TEE / CROSS CONFIGURATIONS

PLAN VIEW



NOTES:

1. ALL WATER LINE INTERSECTIONS (TEES & CROSSES) SHALL BE INSTALLED WITH VALVES ON EACH SIDE OF THE BRANCH FITTING AS SHOWN. (EXCEPTIONS FOR HYDRANT LATERAL CONFIGURATIONS MAY APPLY)
2. ALL LATERAL CONNECTIONS (LARGER THAN 2") TO EXISTING WATER MAINS MUST BE CUT-IN AS SHOWN. EXCEPTIONS GRANTED FOR EXTENUATING CIRCUMSTANCES ONLY AT THE DISCRETION OF THE DIRECTOR OR CITY ENGINEER.
3. SEPARATION BETWEEN VALVES AND FITTINGS SHALL BE A MINIMUM OF 18" UP TO A MAXIMUM OF 48".
4. NO JOINTS ARE PERMITTED BETWEEN VALVE AND TEE / CROSS.
5. ONLY ONE VALVE MAY BE STRAPPED DIRECTLY TO A BRANCH FITTING IF NECESSARY.



CITY OF ABERDEEN
DEPARTMENT OF PUBLIC WORKS

Kyle Jorsts

STANDARD WATER DETAILS

WATER LINE INTERSECTIONS
VALVE AND TEE CONFIGURATIONS
(SIZES LARGER THAN 2")

CITY OF ABERDEEN
ADDENDUM TO
HARFORD COUNTY
STANDARD DETAILS

PLATE **W-35a**