


**APPENDIX “A”**  
**LIST OF APPROVED MATERIALS**  
**AND MANUFACTURERS**

**APPENDIX “A”**

**Instructions:** Email this completed form to [PWPermits@citystaug.com](mailto:PWPermits@citystaug.com) for preliminary review prior to submitting required hard copies. Hard copies: Submit a minimum of four (4) sets (PLUS the number of sets needed by CONTRACTORS) of this completed form and any necessary attachments to the CITY for CITY’s approval. Obtaining this approval is required before a pre-construction meeting with the CITY will be scheduled. Shop drawings are only required for items NOT on this list, such as manholes, wet wells, and other castings. Shop drawings for items that are on this List are not needed, and will be ignored/discarded by CITY staff, unless noted otherwise herein. Ordering materials and products without specific written approval from the CITY of this submitted list and any necessary shop drawings is not recommended and may result in refusal by the CITY to accept the materials for installation. Any material or product not on this list shall be submitted and approved in advance by the CITY. If proposing an alternate material, write-in under appropriate section and attach shop drawing or product sheet.

*TYPE OR PRINT CLEARLY IN BLACK OR BLUE INK*

<b>Project Name / Location:</b> <input style="width:90%;" type="text"/>			
<b>UNDERGROUND UTILITY CONTRACTOR Company Name:</b>		<b>CONTACT Person:</b>	
<input style="width:95%;" type="text"/>		<input style="width:95%;" type="text"/>	
<b>Street Address:</b>		<b>City / State:</b>	<b>Zip:</b>
<input style="width:95%;" type="text"/>		<input style="width:70%;" type="text"/>	<input style="width:30%;" type="text"/>
<b>Office Phone:</b>	<b>Fax #:</b>	<b>Cell Phone:</b>	<b>Email:</b>
<input style="width:50%;" type="text"/>	<input style="width:50%;" type="text"/>	<input style="width:50%;" type="text"/>	<input style="width:50%;" type="text"/>
<b>PROJECT ENGINEER Company Name:</b>		<b>CONTACT Person:</b>	
<input style="width:95%;" type="text"/>		<input style="width:95%;" type="text"/>	
<b>Street Address:</b>		<b>City / State:</b>	<b>Zip:</b>
<input style="width:95%;" type="text"/>		<input style="width:70%;" type="text"/>	<input style="width:30%;" type="text"/>
<b>Office Phone:</b>	<b>Fax:</b>	<b>Cell Phone:</b>	<b>Email:</b>
<input style="width:50%;" type="text"/>	<input style="width:50%;" type="text"/>	<input style="width:50%;" type="text"/>	<input style="width:50%;" type="text"/>
<b>UNDERGROUND UTILITY CONTRACTOR - Signature of Authorized Agent:</b>			
		<b>DATE:</b> <input style="width:60%;" type="text"/>	
<b>Print Name:</b>	<input style="width:90%;" type="text"/>	<b>Title:</b>	<input style="width:90%;" type="text"/>

By this submittal, CONTRACTOR agrees to adhere to the following list and to use only those items that are “X-ed”. It is understood that the CITY shall reject materials and products not in accordance with this list and the MANUAL. Data shown on this list shall be complete with respect to project design and materials for construction. It is the CONTRACTOR’s responsibility to verify that this list matches the approved PLANS and SPECIFICATIONS. The CITY will review this list on a courtesy basis only, in an attempt to confirm requirements of the MANUAL. The CITY will not be responsible or liable for items that have been missed as part of the review. Materials and Manufacturers published in this list are for guidance only. The CITY reserves the right to make changes to this list at any time and will not approve any product deemed inferior by the CITY.

<b>CITY APPROVAL Reviewer’s Signature:</b>		<b>DATE:</b> <input style="width:60%;" type="text"/>
<input style="width:95%;" type="text"/>		<b>COSA Permit #:</b>
<b>Print Name / Title:</b>	<input style="width:90%;" type="text"/>	<input style="width:60%;" type="text"/>

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**LOCATE WIRE**

- Coleman Cable 54503 (10 Gauge)

**(Single strand copper required;  
Copper clad steel wire not acceptable)**

**D.I. FITTINGS (BENDS)**

**(Attach cut sheets of the specific fittings proposed for use on project)**

- Tyler/Union  
 Union Foundry  
 American Cast Iron  
 Clow  
 Star Pipe

**TRANSITION COUPLING**

- Ford Meter Box Co. FC2A  
 ROMAC Industries Alpha Restrained Joint  
 Smith-Blair 441  
 JCM 210

**CLAMP COUPLING**

- JCM 101 W/ STAINLESS BAND  
 ROMAC Industries SS1 (ONE SECTION)

**BOLT-THRU FITTING FOSTER ADAPTOR**

- INFAC T Corporation

**DIRECTIONAL DRILL HDPE**

**(See Section 33 of Design Manual for specifications)**

- Performance Pipe  
 Poly Pipe Inc.  
 National Pipe & Plastics

**VALVE BOX AND COVER**

- Tyler Pipe 461-S  
 Star Pipe 461-S  
 Sigma 2-piece only

**TAPPING SLEEVE**

- Cascade CST-EX  
 Ford FAST-xxx-x  
 Smith-Blair 600 series

**CASING SPACER**

- Cascade CCS  
 Cascade CCS-ER  
 CCI Pipeline Systems

**Note:** All wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures used to convey water for potable use must meet the January 4, 2014 “Reduction of Lead in Drinking Water Act” and contain less than 0.25% lead by weight.

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**RESTRAINER GLAND**

**(Attach cut sheets of the specific restraints proposed for use on project)**

- Tyler Union 3000 Series Pipe Joint Restraint
- Ebba Iron 1100\*, 2000PV – \* For Ductile Iron Pipe
- StarPipe 4100P, 4000, 3000\* – \* For Ductile Iron Pipe
- Uni-Flange 1390
- Sigma PV,SLC,SLD series
- Tyler Union TUFGrip TGD/TGP
- Smith-Blair 100 series

**Note: All fittings on water services must be Brass.**

**BRASS SERVICE SADDLE**

**1-inch and 2-inch taps**

- Ford Meter Box Company S70-204 (all brass) (for 1” tap on 2” mains only)\*
- AY McDonald 3891 (for 1” tap on 2” mains only)\*
- Ford Meter Box Company S90 (all brass) (only for 1” - 2” taps on 4” - 12” fusible PVC mains)
- Ford Meter Box Company 202BS (all brass)
- AY McDonald 3845
- Smith-Blair 325

**\* Note: These hinged saddles are allowed on 2” mains only.**

**CORPORATION STOP**

**1-inch taps**

- Ford Meter Box Company, Inc. F1000-4
- A.Y. McDonald 4701

**CORPORATION STOP**

**2-inch taps**

- Ford Meter Box Company, Inc. B81-777W (with large nut; 90° turn only)
- A.Y. McDonald 4101B-22 (with large nut; for polytubing; 90° turn only)
- A.Y. McDonald 4101BF (with large nut; female valve; 90° turn only)

**STRAIGHT METER COUPLING AND METER BUSHING**

**1-inch and 2-inch**

- Mueller H-10891
- Ford C38-44-3-5
- Ford C38-77-3.0625

**METER BUSHING WITH RUBBER WASHER**

- Ford BBIM-44
- Mueller H-10889

**FREEZE PROTECTION DEVICE**

**1-inch and 2-inch**

- Apollo 40LF-000-FPV2F-w/SAE test cock

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**DOUBLE CHECK DETECTOR ASSEMBLY**

**3/4-inch and 1-inch**

- Ford Meter Box Company, Inc HHS91-323-NL (3/4” meter)
- A.Y. McDonald 711-3YE 33 (Inline Dual Check for 3/4” meter)
- Ford Meter Box Company, Inc HHS91-344-NL (1” meter)
- A.Y. McDonald 711-4YF 44 (Inline Dual Check for 1” Meter x Female Nominal Pipe Thread)

**(Note: No double check on 2” and larger meters; backflow preventer required; see standard details.)**

**BRASS COUPLINGS**

- Ford Meter Box Company, Inc. C87-77 (Pack Joint x Male Thread)
- Ford Meter Box Company, Inc. C44-34 (Pack Joint x Pack Joint)
- Ford Meter Box Company, Inc. Y44-243 (Pack Joint WYE)

**STRAIGHT YOKE BALL VALVE**

**3/4-inch through 2-inch**

- Ford B94-324W (3/4” meter)
- Ford B94-344W (1” meter)
- Ford B81-777, MPTxFPT (2” meter)
- A.Y. McDonald 6102WY-22 (3/4” and 1” meters)
- A.Y. McDonald MPTxFPT (2” meter)

**YOKE BAR**

**3/4-inch and 1-inch**

- Ford Y502-P (5/8” yoke bar - use for 3/4” meter)
- Ford Y504-P (use for 1” meter)
- A.Y. McDonald 14-2P (use for 3/4” meter)
- A.Y. McDonald 14-4P (use for 1” meter)

**EXPANSION CONNECTORS**

**3/4-inch and 1-inch**

- Ford EC-23 (3/4” meter)
- Ford EC-4 (1” meter)
- A.Y. McDonald 14-2EHG (3/4” meter)
- A.Y. McDonald 14-4EHG (1” meter)

**BALL VALVE CURB STOP**

**3/4-inch and 1-inch**

- Ford B11-333W (with long handle) (3/4” meter)
- Ford B11-444W (with long handle) (1” meter)
- A.Y. McDonald 6101W (with long handle) (3/4” and 1” meters)

**(Note: No curb stop on 2” meters; see 2” tap and water meter set-up detail.)**

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**METER BOX**

**3/4-inch through 2-inch**

3/4” meter:

- DFW37C-12-1 body with DFW37C-1-LID lid – labeled “WATER METER”, blue with touch read hole (1-7/8” diameter)

1” meter:

- DFW1324C-12-1 body with DFW1324C-1A-LID lid – labeled “WATER METER”, blue with touch read hole (1-7/8” diameter)

2” meter:

- Brooks 65-T (Lid to be 2-piece cast iron flush lid w/ touch read hole (1-7/8” dia.) labeled “water” & painted blue)  
 Southern Meter Box, Inc C.H. 2” w/ T-T.R 2” Lid (Labeled “water” & painted blue)  
 Pentek Access Boxes (Shop Drawings Required for Pentek boxes and lids)

**METER BOX**

**3-inch and larger** (Attach Shop Drawings for box and lid)

- CDR Systems Corp (Lid to be double-hatched aluminum with handles)  
 Pentek Access Boxes

**HDPE POLY TUBING**

**3/4-inch through 2-inch**

- ENDOT Industries ENDOPURE PE-4710  
 New Age Industries PE-4710  
 Universal Plastics PE-4710

**REDUCED PRESSURE BACKFLOW ASSEMBLY**

**3/4 inch through 10 inch commercial services** (Attach Device Spec)

- Apollo RPLF4A ( 3/4” – 2” )  
 Apollo RPLF4A ( 3” – 12” )  
 Febco LF860 ( 3” – 10” )  
 Watts LF009M2 QT ( 1” – 2” )  
 Watts LF009M3 QT ( 3/4” )  
 Watts LF919 ( 3/4” – 2” )  
 Watts LF957 ( 2 1/2” – 10” )  
 Zurn Wilkins 375 ( 3” – 10” )

**Note: In-Ground Meter or Bypass Detector is required on all backflow and double-check devices.**

OTHER:

**DOUBLE CHECK DETECTOR ASSEMBLY** (Attach Device Spec)

**2 1/2 inch through 8 inch Fire services**

- Apollo DCDALF4A ( 3” - 12” ) (Bypass detector check required)  
 Febco MasterSeries® 856ST Double Check w/ Bypass Detector ( 2 1/2” – 10” )  
 Watts Series 757DCDA, 757NDCDA Double Check w/ Bypass Detector ( 2 1/2” – 10” )  
 Watts LF757 DCDA ( 2 1/2” – 10” with meter and 3/4” Watts LF007 on bypass detector)  
 Apollo DCLF4A ( 2” ) (Requires specific approval from City; in-ground meter required)  
 Watts LF007 ( 2” ) (Requires specific approval from City; in-ground meter required)

OTHER:

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**RESILIENT SEAT GATE VALVE**

**4-inch through 12-inch**

- Mueller Company A2360-20 (In-line)
- Mueller Company A2360-16 (Tapping)

**(Gate Valves acceptable on water mains only.)**

**BUTTERFLY VALVE**

**16-inch and larger**

- Mueller Company 3211-20 (Must be ordered with Operator)

**PVC PIPE (Water)**

**4-inch through 36-inch**

**C 900 (4” – 12”) or C 905 (14”+), PVC 1120, DR-18**

- |   |   |
|---|---|
| <input type="checkbox"/> North American Pipe    | <input type="checkbox"/> Freedom Plastics           |
| <input type="checkbox"/> Extrusion Technologies | <input type="checkbox"/> National Pipe & Plastics   |
| <input type="checkbox"/> Diamond Pipe           | <input type="checkbox"/> Sanderson Pipe Corporation |
| <input type="checkbox"/> LCP National           |   |

**FIRE HYDRANT**

- Mueller Modern Centurion A-442 (with square operating nut)

**INSERT STIFFENERS**

- Ford 51
- Ford 52
- A.Y. McDonald 6133T

**COMBINATION AIR RELEASE VALVE**

**Water Main**

- A.R.I. Flow Control Accessories D-040-PT

**PVC PIPE (Wastewater)**

**4-inch through 36-inch**

**Gravity Sewer:**

**Less than or equal to 10-ft pipe cover, PVC 1120, SDR-35 is acceptable.**

**Greater than 10-ft pipe cover, PVC 1120, SDR-26 is required.**

**Force Main Sewer:**

**2” SDR-9 HDPE Poly Tubing**

**4” – 12”, C 900, PVC 1120, DR-25**

**14”+, AWWA C 905, PVC 1120, DR-25**

- North American Pipe
- Extrusion Technologies
- Diamond Pipe
- LCP National
- Freedom Plastics Inc.
- Sanderson Pipe Corporation

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**PRE-CAST SANITARY MANHOLES AND WET WELLS**

**(Approved manufacturers listed below; Shop Drawings Required; See Construction Details and Plans for required coatings and liners)**

- Standard Precast
- Forterra (aka Hansen)
- Old Castle Precast

**LINERS AND COATINGS**

**(Approved manufacturers listed below; Shop Drawings Required; See Construction Details and Plans for required coatings and liners)**

- CSI Fiberglass Manholes & Liners
- Sewper Coat
- Spectrashield **(Use on all standard manholes, unless specified otherwise on plans or by the City. If manhole receives 4” or smaller force main discharge, Spectrashield is acceptable. If larger force main, other lining requirements apply.)**

**FLEXIBLE MANHOLE CONNECTOR**

- NPC Inc., Kor-N-Seal
- Fernco Quik Seal

**MANHOLE COVER**

- U.S. Foundry Double-ring 655-CW-M

**CHECK VALVE**

**Wastewater**

- 2”: FNW Stainless Steel 200 WOG Swing Check Valve
- 4” and larger: GA Industries Figure X250-DS swing check valve, outside lever and weight, with stainless steel hardware and external epoxy coating.

**ECCENTRIC PLUG VALVE**

**Wastewater**

- GA Industries Figure 517 ECO-Centric plug valve with stainless steel hardware.
- DeZurick PEF

**2-INCH BALL VALVE**

- Ford Meter Box Company B11-777W (In-line) (with large nut; 90° turn only)
- Ford Meter Box Company B81-777W (Tapping) (with large nut; 90° turn only)

**GRAVITY SEWER TAPPING SADDLE**

- Romac CB (for use on standard pipe)
- FERNCO Flexible “WYE” Tapping Saddle with Pressure Kit, (for use on lined pipe/non-standard pipe)

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**PVC FITTINGS**

- Harco
- Multi Fittings
- Plastic Trends

**CLEANOUT BOX AND COVER**

- Brooks Products, 6-inch (Typ), 1-RT

**COMBINATION AIR RELEASE VALVE**

**Wastewater Force Main**

- A.R.I. Flow Control Accessories D-025 with CAM LOCK (R.N.)

**LIFT STATION CONTROL AND TRANSDUCER**

- PLC Controller: Allen Bradley Micrologix (COSA to provide programing)
- HMI with 7” Display: Maple: HMI5070P
- Transducer: Contegra SLX130 (\*15 PSI Maximum Reading Range with 60’ cable)