



City of Pearland Approved Product List

Section 1: Approved Water Products List

All products must conform to NSF/ANSI standards 60 or 61, if available.

- 1.1. Fire Hydrants (Flushing Valves, AWWA C 502) (Pumper nozzle 5.25 inch, hose nozzle 2.5 inch, see COP Standard Details)**
 - a. Mueller Super Centurian 250
 - b. American Darling B-84-B
 - c. East Jordan Iron Works WaterMaster 5CD250
- 1.2. Fire Hydrant (Approved Paint Colors, shop primed, field painted)**
 - a. 6", Glossy White Code No 225A120
 - b. 8" Safety Orange Code No 225A122
 - c. 12" John Deere Green Code No 225A133
 - d. 16" and 20" John Deere Yellow Code No 225A138
 - e. 22" and up Safety Red Code No 225A123
 - f. Fire Hydrant Barrel Safety Blue Code No 225A120
- 1.3. Gate Valves (4" thru 12") Non Directional Resilient Seated, Stainless Steel Bolts, mechanical joints only**
 - a. Mueller
 - b. East Jordan
 - c. American Flow Control
- 1.4. PVC Pipe (AWWA C900/905)**
 - a. All compliant manufactures
- 1.5. Ductile Iron Pipe and Fitting Restraints (AWWA 110/104)**
 - a. EBAA Iron Inc. MegaLug Mechanical Joint Restraint
 - b. Ford – Uni-Flange
 - c. Clow Corp. Super-Lock Joint
 - d. American Cast Iron Co.
 - e. US Pipe and Foundry Co.
 - f. McWane Cast Iron Pipe Co.
 - g. US Pipe and Foundry Co

- 1.6. HDPE Pipe for Water – DR 11/14, Blue Lines**
 - a. All compliant manufactures
- 1.7. Curb Stop (90 deg locking rings)**
 - a. Ford
 - b. Mueller
 - c. Jones
 - d. McDonald
- 1.8. Service Saddle PVC pipe – full stainless or epoxy coated tapping saddle, wide stainless steel bands and hardware)**
 - a. Mueller
 - b. Romac Series 101S
 - c. Smith Blair
 - d. Ford
- 1.9. Service Saddle - 16” and up PVC C 905, epoxy coated tapping saddle, dual wide stainless steel bands and stainless hardware.**
 - a. Mueller
 - b. Smith Blair
 - c. Romac Series 202S
- 1.10. Air Release Valve – 2”**
 - a. ARI
- 1.11. Pumps (to be reviewed and approved prior to bid)**
- 1.12. Combination Vacuum Relief Valves**
 - a. APCO Series
 - b. Ga Industries
 - c. Val-Matic
 - d. ARI
- 1.13. Pressure Reducing Valves**
 - a. Cla-Val Model 90-01
- 1.14. Valve Boxes and Meter Boxes**
 - a. Single service, NDS 1300
 - b. Double Service, NDS 1600
 - c. Bass and Hays Foundry Inc
- 1.15. Pipe Casing Spacers (SS) & End Seals for Bored Crossings**
 - a. Pipeline Seal and Insulator
 - b. CCI Pipeline
- 1.16. Tapping Sleeves (Stainless Steel)**
 - a. JCM
 - b. 12” or smaller, Romac
 - c. Smith Blair

1.17. Polyurethane Wrap

- a. Polyken No 900
- b. Scotchwrap No 50

1.18. Service Tubing (3/4" - 2")

- a. CTS-SDR9
- b. Rehau Municiplex

1.19. Ground Storage Tanks

- a. Concrete
- b. Welded Steel

1.20. Backflow Prevention

- a. Watts LF8004FR
- b. Wilkins 420XL
- c. Wilkins 720A or equal

1.21. Reduced Pressure Backflow

- a. Febco No LF825Y
- b. Watts LF909
- c. Wilkins 975XL2 LF4000B or equal
- d. ParkUSA RPDAA

1.22. Double Check Assembly

- a. Febco LF850
- b. Watts LF007
- c. Apollo DC4ALF
- d. Ames LF2000B or equal
- e. ParkUSA DDBP

1.23. Waterline Pressure Sensor

Approved Equipment:

- **PR32iA-M1V-200-030-EAC-BMI** – RTU and Pressure Sensor
- **A-CBA-LTE** – Burial Antenna
- **68886-1001** – Telog Remote Monitoring Subscription
- **Activation** – Part number required to activate the unit at time of shipment

Installation and Technical Requirements:

- The pressure sensor must be delivered with the pressure transducer pre-connected to the data recorder and fully calibrated.
- A **burial-grade antenna** is required. Meter boxes must be **plastic or concrete** — metal enclosures are not permitted due to interference with signal transmission.
- The data recorder is typically enclosed in a meter box for protection and accessibility.
- The pressure tap must be installed directly on the **main waterline**, not from a hydrant connection.

1.24. Sampling Station

- a. Mueller 16.12 Hydro-Guard Sampling Station
 - i. Base Part # BSS01
 - ii. Pipe Material – Stainless Steel

Section 2: Sanitary Sewer Products List

- 2.1. Gravity Sanitary Sewers – SDR26 3034/PS 115, Green**
 - a. All compliant manufactures
- 2.2. Sanitary Sewage Force Mains – C900/905, Green**
 - a. 12” or Less: C900 DR18 Class 150, All compliant Manufactures
 - b. Greater than 12”: C905, all compliant manufactures
- 2.3. Iron Pipe and Fittings – C110, C900/905, all MJ fittings, protecto coat 401**
 - a. All compliant manufactures
- 2.4. Ductile Iron Pipe (Approved Manufacturers) – AWWA 110/104 w/o 401 coating**
 - a. American Cast Iron Pipe Company
 - b. McWane Cast Iron Pipe Company
 - c. US Pipe and Foundry Company
- 2.5. High Density Polyethylene Solid Wall Pipe (HDPE) - ASTM F714, Green Lines**
 - a. All compliant
- 2.6. Sanitary Sewer Service Leads – Full body tee, SDR35 for laterals**
 - a. GPK Products Inc, IPS & Sewer adapter
 - b. GPK Products Inc, plugs and caps
- 2.7. Concrete Manhole and Accessories (Protective Coatings, 5’ Diam. MH)**
 - a. Rapid set grouts; Strong-Plug Strong-Seal QSR, Quadex Hydro-Plug
 - b. Raven liner (contact COP Public Works for specific type)
 - c. SewperCoat 100% Calcium Aluminate by Kerneos Aluminate Technologies
- 2.8. Frames, Grates, Rings and Covers (Special Frames and Covers)**
 - a. Neenah Foundry Co., Model R-1916
 - b. East Jordan Iron Works, Model V-2420
- 2.9. Air Release Valves**
 - a. APCO No.200
 - b. Val-Matic Series 200
 - c. For 3” or larger, APCO Series 1700 with No.200 air release valve
 - d. Ga Industries
 - e. ARI
- 2.10. Auger Pipe or Casing for Sewers**
 - a. Pipeline Seal and Insulator, Inc
 - b. CCI
- 2.11. Oder Control**

Section 3: Storm Sewer Products List

All standard manholes are to be 5' diameter.

- 3.1. Frames, Grates, Rings, and Covers (Special Frames and Covers)**
 - a. Neenah Foundry Co. Model R-1916
 - b. East Jordan Iron Works, Model V-2420
- 3.2. Pipe Materials**
 - a. ADS HP Storm Wall 12"-60", all depth (non-pressure)
 - b. RCP meeting ASTM C76

Section 4: Traffic/Street Products List

See COP Traffic Signal General Notes and EDCM

- 4.1. Traffic Cabinet Equipment**
 - a. Cabinet, Trafficware NEMA TS-2 Type 1
 - b. MMU, Trafficware MMU 516L-E LCD
- 4.2. Vehicle Detection System**
 - a. Trafficware Wireless Magnetometer
- 4.3. Video Surveillance**
 - a. Model, Pan/Tilt/Zoom
- 4.4. Communication Hardware**
 - a. Wireless Switch, CISCO, verify with IT prior to purchase
- 4.5. Traffic Signal Poles**
 - a. Valmont Structure
- 4.6. Street Signs (Sign Face Background, Legends, Symbols, and Colors)**
 - a. Avery Dennison OL – 2007 Green Electronic Cuttable Film
 - b. Avery Dennison T – 7500 White Vinyl Reflective Sheeting
 - c. Avery Dennison Black PC – 500 – 0 Vinyl
 - d. Avery Dennison OL – 2001 Yellow Electronic Cuttable Film 5 ½" x 8"

Section 5: Miscellaneous Products

- 5.1. Landscape Irrigation**
 - a. Solvent Cement and Primer for PVC, Christie's Red Hot Blue Glue and Primer
 - b. Gate valves 3" and smaller; Nibco, Hammond
 - c. Electric Remote Control Valve; Hunter ICV Series
 - d. Quick Couplers; Hunter
 - e. Remote control valve box; Carson Ind.
 - f. Remote control valve box; Christy Concrete Products

- g. Gate valve and control wire splice box; No 910-12B by Carson Ind.
- h. Sprinklers; Hunter Ind
- i. Controllers; Hunter Ind Model IDWIRE 1 or Model IDWIRE 2
- j. Wiring; Paige cable
- k. Regency Wire and Cable
- l. Scotch-Lok 3576 Connector Sealing Packs
- m. DBY(Direct Bury) Splice by 3M
- n. Remote Control Valve Ties; Christy's Valve ID tag model ID-STD-Y
- o. Solvent Cement; Christy's Red Hot Blue Glue T by Christy Enterprises
- p. Sealant for threaded joints; Rector Seal Liquid Teflon by Rector Seal Corp
- q. Backflow Enclosure; Strong Box No SBBC-30CR by VIT Products
- r. Hot Box Enclosures; CDR Systems Corp
- s. Guard Shack M Series GS-M1 thru GS M4, Hinged Models GS-1 thru GS-5 or equal
- t. Rainfall Monitor; Mini-Click by Hunter Industries
- u. Flow Sensor; Hunter Flow Click

5.2. Hydromulch Seeding

- a. Soil stabilizer; "Terra-Tack"1
- b. Weed Control Agent; Benfin

5.3. Hot Pour Crack Sealant

- a. SealMaster CrackMaster 3405