



# PETERBOROUGH UTILITIES COMMISSION

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## APPROVED MANUFACTURERS' PRODUCTS FOR THE PETERBOROUGH WATER SYSTEM

SPECIFICATIONS	MANUFACTURER/MODEL
<b>STANDARDS – GENERAL</b> <p><i>The materials used in all structures shall comply with the requirements of the Building by-laws of the City of Peterborough and the National Building Code of Canada, except where a higher standard is specified herein.</i></p> <p><i>Materials and products used in Commission contracts must meet the most current version of NSF/ANSI Standard 61, “Drinking Water System Components – Health Effects”. NSF/ANSI Standard 61 products are to have been manufactured after July 1, 2012 and be ‘lead-free’ as defined by the Standard (≤5ppb leached; ≤0.25% by weight).</i></p>	
<b>ACCESS VAULT LEAK PROTECTION</b>	
Manhole Seal	<ul style="list-style-type: none"> <li>• CCI Pipeline Systems – Wrapid Seal Manhole Encapsulation System (engineered primer and wrap around heat-shrinkable sleeve)</li> <li>• Cretex Inflow Dish (or PUC approved equivalent)</li> <li>• Mel-Rol by W.R. Meadows (or PUC approved equivalent)</li> </ul>
<b>ANODES</b>	
<b>Magnesium:</b> Alloy as per ASTM B107, 1961 M-1c or equal B843-13 <b>7.2 kg</b> (300mm+ long)(125x750 mm container) <i>(for fittings, valves, hydrants)</i>  <b>14.5 kg</b> (560mm+long) (200x700mm container) <i>(for DI &amp; CI mains)</i> Anode Composition: Backfill wt > alloy wt x 1.75 & having elect. Resistivity <45 ohm-cm wet; backfill composition: gypsum 75-77%, NaSO4 5-8%, Bentonite 15-20%; c/w min. 1.8m of #10/7 strand AWG copper c/w orange TWH insul'n	<ul style="list-style-type: none"> <li>• ICCC (Interprovincial Corrosion Control) - MaxMag HP model 32D5GG</li> <li>• CorrPro Canada Inc. - Model BC-81-3220 (32 lb, 14.5 kg)</li> <li>• Bren Technologies Inc. – MA-5, MA-9, MA-17, MA-32</li> <li>• Integrity Pipeline Products – ANM17 &amp; ANM32</li> </ul>
<b>Zinc (for copper services):</b> 5.4 kg zinc alloy casting ASTM B418-12 Type II or equal alloy; min. 610mm+ long) (200 x 700mm+ container) Anode Composition: Contained in cardboard container; backfill having elect. Resistivity <45 ohm-cm wet; backfill composition: gypsum 75-77%, NaSO4 5-8%, Bentonite 15-20%; c/w min. 1.8m of #10/7 strand AWG copper c/w orange TWH insul'n	<ul style="list-style-type: none"> <li>• ICCC - 12S1-4ZP</li> <li>• Exothermal Industries Inc. - ANZ12.01, ANZ05.01, ANZ06.01, ANZ14.01</li> <li>• Maple Agencies – ANM05.01, ANM09.01, ANM17.01, ANM32.01</li> <li>• Bren Technologies Inc. – ZA-6, ZA-12, ZA-24</li> <li>• Integrity Pipeline Products – ANZ06, ANZ12, ANZ24</li> </ul>

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<p>Anode Bonding Cables: #1/0 AWG, 19 strand copper TW insul. Cable; min. length 450mm Fabricated using Erico Products Inc. #CAS05F copper sleeve &amp; a #CAD-05 hammer die or equal.</p>	<ul style="list-style-type: none"> <li>• North Flex (welding cable) – E91935 600 Volt</li> </ul>
<p>Anode Service Clamps: Brass, designated for direct bury, c/w brass screws</p>	<ul style="list-style-type: none"> <li>• Thomas &amp; Bett - Cat.# JD</li> <li>• Iberville Mfg. (Emco Supply) - #3110-U</li> <li>• Illsco of Canada Ltd - BGC-1DB</li> </ul>
<p>Anode Test Stations: 100mm x 1.5m UV stabilized polyethylene pipe; 3 nickel-plated brass terminals + 2 nickel plated copper bond straps; stainless steel locking devices</p>	<ul style="list-style-type: none"> <li>• Cott Manufacturing Co. (for station head) - "Flush Fink" test station head; blue cap</li> </ul>
<b>BACKFLOW PREVENTION DEVICES</b>	
<p>Reduced Pressure Zone (PRZ) assemblies – for use on the temporary water main connection to hydrants, chlorination &amp; bacteriological test point bypass (PUC plan A3080 or A3084), and on water trucks. Note that a manufacturer's equivalent or better unit to those models specified herein will be considered.</p>	<ul style="list-style-type: none"> <li>• Apollo/Conbraco Model RP4A</li> <li>• Watts Model 009</li> <li>• Zurn Wilkins Model 375 or Model 975XL</li> </ul>
<p>Double Check Valve Assembly units – for use on temporary bleeder lines and may be considered for use on temporary water main connections to hydrants in specific locations if approved by PUC.</p>	<ul style="list-style-type: none"> <li>• Apollo/Conbraco Model DC4A</li> <li>• Watts Model 007 ½" - 2"</li> <li>• Zurn/Wilkins Model 350 or Model 950XL</li> </ul>
<b>BACKWATER VALVES</b>	
<p>For use on discharge pipes to sewers at flush stations, air valve chambers, etc. CSA/CAN or approved equal.</p>	<ul style="list-style-type: none"> <li>• Canplas backwater valves</li> <li>• Royal backwater valves</li> </ul>
<b>CASING SEAL</b>	
<p>Rubber End Seal</p>	<ul style="list-style-type: none"> <li>• Pipeline Seal &amp; Insulator Inc. – Model R end seal</li> </ul>
<b>CASING SPACERS</b>	
<p>#304 stainless steel Type  Injection molded high-density polyethylene Type</p>	<ul style="list-style-type: none"> <li>• Cascade Water Works Mfg., Phoenix Gold Series</li> <li>• CCI Pipeline Systems model CSPB12-2.50-EXT-2.00 (for 12" spacers)</li> </ul>
<b>CORPORATION MAIN STOPS</b>	
<p>AWWA C800-14 or latest revision; open left; tracer wire (TW) terminals where required. Q = Quick Joint TW = Tracer Wire  Lead content of materials in contact with drinking water must meet latest NSF/ANSI Standard 61 of ≤0.25% by weight.</p>	<ul style="list-style-type: none"> <li>• Mueller 300 – B25008 N – Cc x 110 Comp.</li> <li>• Cambridge Brass – 301 NL, AWWA x CB Comp</li> <li>• Ford – FB1000 – # – NL; AWWA x QJ</li> <li>• Mueller H15008N</li> <li>• ≥50 mm Mueller H9968</li> </ul>
<b>CORROSION PROTECTION</b>	
	<ul style="list-style-type: none"> <li>• Denso – Prevention &amp; Sealing products – paste, molding compound, tape</li> <li>• Sterling Varnish - Black Mastic</li> </ul>

<b>SPECIFICATIONS</b>	<b>MANUFACTURER/MODEL</b>
<b>COUPLINGS</b>	
Bolted couplings for 100 – 600mm WM	<ul style="list-style-type: none"> <li>• Smith-Blair – Type 441</li> <li>• Robar – Style 1507</li> <li>• Viking Johnson - MaxiFit</li> <li>• Ford – Ultra-flex FC2W</li> <li>• Powerseal 3501, 3506</li> <li>• Straub Grip, Metal Grip</li> <li>• Straub Flex</li> <li>• GF Multi/Joint – Models 3007,3057,3107,3207,3407</li> </ul>
Two (2) Bolt Coupling System 100 – 300 mm	<ul style="list-style-type: none"> <li>• Smith-Blair – 421 top bolt</li> <li>• Hymax</li> </ul>
<b>CURB STOPS</b>	
<p>AWWA C800-14 or latest revision; O-ring seals; left open; tracer wire (TW) terminals where required.</p> <p>Lead content of materials in contact with drinking water must meet latest NSF/ANSI Standard 61 of <math>\leq 0.25\%</math> by weight.</p>	<ul style="list-style-type: none"> <li>• Mueller 300 – B25209N – 110 Comp x 110 Comp</li> <li>• Mueller Oriseal H15209N</li> <li>• Cambridge Brass 202NL - CB comp.x CB comp</li> <li>• Ford (with Quick Joint) - B44-###-Q or B44-###-TW-Q - NL</li> </ul>
<b>FITTINGS</b>	
<p>Ductile: ANSI/AWWA C153/A21.53-06, C111/A21.11-12 &amp; C104/A21.4-13 Cement-lined; MJ ends</p>	<ul style="list-style-type: none"> <li>• Star</li> <li>• Bibby</li> <li>• Sigma</li> <li>• RCT Flex Tite (new installations only)</li> </ul>
<p>PVC: ANSI/AWWA C907-12, CSA B137.2, &amp; NSF61; injection molded</p>	<ul style="list-style-type: none"> <li>• IPEX – Blue Brute</li> <li>• Harco</li> </ul>
<b>FLANGES</b>	
Adaptor Flange	<ul style="list-style-type: none"> <li>• Clow - Series 90S/90C – joins plain end PVC or DIC to equipment, valves, etc that are flanged (Not a restraint device!)</li> <li>• UNI-Flange</li> <li>• EBAA Iron</li> </ul>
<b>FLUSHING STATIONS</b>	
Automatic Flushing Station with PUC installed meter. Insulated as required to prevent freezing.	<ul style="list-style-type: none"> <li>• Mueller Co. Hydro Guard – HG4</li> </ul>
<b>GRANULAR</b>	
<p>Granular A: Crushed rock composed of hard, uncoated, fractured fragments graded to MTO Gran. A</p>	To be approved prior to construction.
<p>Granular B: Select pit-run granular, not requiring crushing; clean, hard, durable uncoated particles – MTO Gran. B</p>	To be approved prior to construction.
<p>Modified Granular B Type 1: Crushed rock composed of hard, uncoated, fractured fragments graded to COP Modified Granular B Type 1 designation. Max size &lt;57mm</p>	To be approved prior to construction.

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Sand: Screened or pitrun sand of clean, hard, durable, uncoated particles (100% pass 6.7mm sieve, max. 5% retained on 75micrometer sieve)	To be approved prior to construction.
Crushed Stone: 19mm or 50mm open graded crushed clear stone of sound, clean, durable limestone fragments	To be approved prior to construction.
Select Backfill: Select native material free of deleterious matter and rock pieces that will not pass 200mm dia. Ring; suitable moisture content	To be approved prior to construction.
Unshrinkable Backfill: Standard 28-day with max strength of 0.4 MPA – OPSS 1359	To be approved prior to construction.
Thrust Block Concrete: From an approved Ready Mix Operation; 28-day comp. strength of 20Mpa	To be approved prior to construction.
Pipe Bedding Concrete: From an approved Ready Mix Operation; 28-day comp. strength of 15Mpa	To be approved prior to construction.
Engineered Fill: Must meet OPSS1010 and PUC's written approval	To be approved prior to construction.
HYDRANTS	
Peterborough ANSI/AWWA C502-14; 114mm main valve size; two pc barrel c/w <b>2 – 63.5mm nozzles @ 90 deg. (Ptbo. Pattern) &amp; 100mm pumper nozzle</b> ; open left; yellow	<ul style="list-style-type: none"> <li>• Mueller Canada Valve – Century 4.5in175psi 2H90 12B43B 1L MJ Y (Peterborough Pattern)</li> </ul>
Lakefield ANSI/AWWA C502-14; 114mm valve size; two pc barrel c/w <b>2 - 63.5mm nozzles @ 180 deg. &amp; 114mm pumper nozzle</b> ; open left; yellow	<ul style="list-style-type: none"> <li>• Mueller Canada Valve – Century 4.5in175psi 2H180 12B43B 1L MJ Y</li> </ul>
INFLOW PREVENTION	
Water security item NSF61 Epoxy coating in & out; 316 SS float checks Size – 1, 2, 3, 4, 6 & 8”	<ul style="list-style-type: none"> <li>• Val-Matic Flood Safe Inflow Preventer (used on vault installed air valves &amp; reservoir vents) – Model SPK-130X where X = size</li> </ul>
JOINT RESTRAINTS	

SPECIFICATIONS	MANUFACTURER/MODEL
Restraints for DI Pipe JRs can be tie rods, restrained harness and/or mechanical joint retainer gland rings	<ul style="list-style-type: none"> <li>• Ford Uni-flange Series 1300 &amp; 1390</li> <li>• EBAA Iron 1100 Megalug Series</li> <li>• Star 9000C, 9100C</li> <li>• Ford Uni-flange – Series 1400</li> <li>• EBAA Iron – 1000 Series</li> <li>• Sigma One-Lok</li> <li>• Stargrip 3000</li> <li>• All Stargrip 4300</li> <li>• Tyler – MJ Field Lok kit (gasket/gland/nuts &amp; bolts)</li> <li>• Tyler Union – TufGrip TGD</li> </ul>
Restraints for PVC Pipe JRs can be tie rods, restrained harness and/or mechanical joint retainer gland rings	<ul style="list-style-type: none"> <li>• Ford Uni-flange Series 1300, 1350 &amp; 1360</li> <li>• EBAA Iron Series 1500, 2500 &amp; 6500</li> <li>• Sigma PV-Lok</li> <li>• Star Model 1100G2</li> <li>• Uni-flange – Series 1500</li> <li>• EBAA Iron – 2000 Series</li> <li>• Sigma One-Lok</li> <li>• Stargrip 4000/4000 G2</li> <li>• All Stargrip 4300</li> <li>• Tyler Union – TufGrip TGP</li> <li>• Clow – Series 300/350/360/390</li> </ul>
PVC Mechanical Joint Restraints	<ul style="list-style-type: none"> <li>• Stargrip 4000/4000 G2</li> <li>• All Stargrip 4300</li> <li>• Star 1000G2, 1100G2, 1200G2</li> <li>• Sigma One-lok</li> </ul>
PIPE INSULATION	
Urethane Half Shell Pipe Insulation Systems	<ul style="list-style-type: none"> <li>• Urecon UIP kits; nominal 50mm thick rigid polyurethane foam; 0.305mm (12 mil) PE hand-roll tape jacket spirally applied with a 50% overlap</li> </ul>
PIPE - MAINS	
50mm or less: Type K soft copper Soft copper tubing annealed, min. pressure rating 1035; ASTM B88 – Meets water main specs ( <b>Case by case approval required</b> )	<ul style="list-style-type: none"> <li>• Aqua Pure – Hyperpure Bi-modal Poly Tubing (25 mm min.)</li> </ul>
50 mm or less Poly Tubing:	<ul style="list-style-type: none"> <li>• Rehau Minicipex (25mm min.) (<b>Preferred</b>)</li> <li>• Polytubes – HDPE (25mm min.) (<b>Case by case approval required</b>)</li> </ul>

SPECIFICATIONS	MANUFACTURER/MODEL
Ductile DIC – Class 52, ANSI/AWWA C150/A21.50-14, C151/A21.51-09, c111/A21.11-12 Cement – C104/A21.4-13 Slip-on Tyton joint; poly wrapped ANSI/AWWA C105/A21.5-10; min. 8mil ( <b>Case by case approval required</b> )	<ul style="list-style-type: none"> <li>• Canada Pipe Co. – 100 mm to 300 mm dia. Exposed metal surfaces not wrapped to be coated with 2 coats corrosion resistant mastic (Sterling Varnish #1756 Black Mastic) or wrapped in Denso Tape T-1.</li> <li>• Electrosteel USA-NuBlu – 100 mm to 600 mm dia.</li> </ul>
PVC – Class 150 (DR18): ANSI/AWWA C900-07 (CSA B137.3M) Bell & spigot slip on joint ASTM D3139 rubber rings Blue and marked	<ul style="list-style-type: none"> <li>• IPEX – Blue Brute</li> <li>• Royal</li> <li>• Rehau</li> <li>• Diamond Plastics</li> <li>• National Pipe</li> <li>• NEXT Polymers</li> </ul>
Oriented PVC - ANSI/AWWA C909, ASTM F1483 biaxially oriented PVC pipe CIOD 100mm – 300mm Use approved restraints for C909 PVC pipe	<ul style="list-style-type: none"> <li>• IPEX – Bionax PVCO</li> </ul>
Fusible PVC Pipe for <u>Trenchless Applications</u> 100mm to 900mm (CIOD); CSA B137.3; AWWA C900 & C905; NSF-61; ASTM cell class 12454	<ul style="list-style-type: none"> <li>• IPEX Inc. – Fusible Brute -Available in 12.2m lengths; DR 14 (305psi), DR 18 (235psi) acceptable although lower pressure classes available (25, 32.5, 41)</li> </ul>
HDPE trenchless applications	<ul style="list-style-type: none"> <li>• To be approved by PUC prior to use</li> </ul>
CPP - Concrete Pressure Pipe (for >300 mm diameter pipe)	<ul style="list-style-type: none"> <li>• Forterra CPP unless approved otherwise by engineer</li> </ul>

<b>SPECIFICATIONS</b>	<b>MANUFACTURER/MODEL</b>
<b>PVC PIPE C/W INTEGRAL JOINT RESTRAINT "RESTRICTED USE"</b>	
PVC C900 pipe w. coupling and locking splines; 100 – 300mm	<ul style="list-style-type: none"> <li>• Napco (formerly Royal Pipe) Systems – Cobra Lock Pipe System - Class 150 (DR18) and Class 200 (DR14) "Use permitted by PUC Approval only"</li> <li>• Napco complete with Bulldog integral joint restrained system</li> </ul>
<b>PIPE - SERVICES</b>	
Insulated Pipe – Services 50 mm or less, poly tubing	<ul style="list-style-type: none"> <li>• Rehau Municipex PI Water Service Tubing <b>Approved in Principle</b>, Use permitted by PUC approval only on a case by case basis.</li> </ul>
50mm or less: Type K soft copper Soft copper tubing annealed, min. pressure rating 1035; ASTM B88 – Meets water main specs ( <b>Case by case approval required</b> )	<ul style="list-style-type: none"> <li>• Aqua Pure – Hyperpure Bi-modal Poly Tubing (25mm min.)</li> </ul>
50 mm or less Poly Tubing:  >50 mm: PVC as per "mains".	<ul style="list-style-type: none"> <li>• Rehau Municipex (25 mm min.) (<b>Preferred</b>)</li> <li>• Polytubes – HDPE (25mm min.) (<b>Case by case approval required</b>)</li> </ul>
<b>REPAIR CLAMPS (Operations Only)</b>	
Bell joint repair clamp for DI, CI, AC pipe  Circle repair clamps	<ul style="list-style-type: none"> <li>• Powerseal – Model 3232</li> <li>• Straub Clamp (stainless steel)</li> <li>• Powerseal – Models 3121, 3122, 3123, 3131</li> </ul>
<b>SERVICE BOXES</b>	
Steel boxes 1500x1800mm long; 875mm operating rod	<ul style="list-style-type: none"> <li>• Mueller – A-726</li> <li>• Clow</li> <li>• Bibby</li> <li>• Sigma - CBA160 or cb-196</li> <li>• Mueller – A-753 for 38 &amp; 50 mm, no operator rod</li> <li>• Star Pipe – Model SB#8DI</li> </ul>
<b>SERVICE FITTINGS</b>	
50 mm or less: brass c/w compression type joints >50 mm service - meets water main specs AWWA C800-14 or latest revision. Lead content of material in contact with drinking water must meet latest NSF/ANSI Standard 61 of ≤0.25% by weight.	

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<b>SERVICE SADDLES</b>	
Mandatory for use on PVC pipe; stainless steel band; double bolt; SS nuts & bolts and non-corrosive washer	<ul style="list-style-type: none"> <li>• Teck – Cambridge Brass Series 8403</li> <li>• Ford – Model FS303</li> <li>• Robar – Model 2616</li> <li>• Robar – Model 2706 (for air valve applications)</li> <li>• Powerseal – Model 3412AS</li> <li>• Smith-Blair – Model 375</li> </ul>
<b>TAPPING SLEEVES</b>	
Two piece; recessed flat face flange on outlet half; mechanical joint outlet also acceptable.	<ul style="list-style-type: none"> <li>• Smith-Blair – Type 622</li> <li>• Mueller – Type H304MJ</li> <li>• Ford – Complete with MJ Outlet; FTSS or FTSC (SS or carbon steel)</li> <li>• Power – 3460 CS MJ</li> </ul>
<b>TRACER WIRE (FOR PLASTIC PIPE)</b>	
#14 (min.) AWG solid copper TWU c/w plastic coat	<ul style="list-style-type: none"> <li>• Copperhead High Strength 1430B-HS (min .), blue coating</li> </ul>
<b>TRACER WIRE CONNECTORS</b>	
<p>#6 AWG type; Marr-type, brass split bolt; or soldered and wrapped with insulating tape</p> <p><u>Slice Service Lines w/o cutting main line:</u> for low voltage tracers &lt; 50V</p>	<ul style="list-style-type: none"> <li>• Marr (copper services only)</li> <li>• Dryconn - #10666 (copper services only)</li> <li>• Thomas &amp; Betts – 6AWG-6H3 (copper services only)</li> <li>• King Innovation – DryConn Waterproof Direct Bury Lug; waterproof, corrosion proof; #14 to #10 AWG wire range; silicone filled</li> <li>• Copperhead Snakebite Connectors LSC 1430, 1230, 1030</li> </ul>
<b>TRACER WIRE TEST STATIONS</b>	
Insulated direct connect point for attach of locate transmitter that attaches easily to the tracer wire	<ul style="list-style-type: none"> <li>• Copperhead Snake Pit Magnetized Test Station LDXL36B TP Lite Duty Box; Blue colour coded</li> </ul>
<b>UNIONS</b>	
<p>Compression type; min. press. rating 1035kPa; AWWA C-800-14</p> <p>Lead content of materials in contact with drinking water must meet latest NSF/ANSI Standard 61 of ≤0.25% by weight.</p>	<ul style="list-style-type: none"> <li>• Mueller – H-15403 c/w bottom ridge</li> <li>• Cambridge Brass – CB x CB series 118</li> <li>• Ford – “Quick Joint”</li> </ul>
<b>VALVES</b>	
<p>Air Valves: Air release, vacuum, combination valves: ASTM A-126 Class B &amp; ANSI/AWWA C512-07; use up to 150psi</p>	<ul style="list-style-type: none"> <li>• APCO</li> <li>• Empire</li> <li>• Valmatic</li> <li>• ARI (50mm or less) – D-040-C ARI Combination</li> <li>• ARI (&gt;50mm) – D-060-C HF ARI Comb'n</li> <li>• Vent-O-Mat – Series RBX Anti-shock</li> </ul>



<b>SPECIFICATIONS</b>	<b>MANUFACTURER/MODEL</b>
Butterfly Valves: ANSI/AWWAC504-94; <b>Peterborough</b> - open right (clockwise) <b>Lakefield</b> – open left (counterclockwise)	<ul style="list-style-type: none"> <li>• Mueller</li> <li>• Clow</li> <li>• Pratt</li> <li>• Valmatic</li> <li>• VSI Series BFII (BFII(XX)(M)-DDSES-PS2 wh. XX=dia; M = Mech Jt)</li> </ul>
Gate Valves: ANSI/AWWA C509-09; or ANSI/AWWA C515; latest versions; <b>Peterborough</b> - open right (clockwise) <b>Lakefield</b> – open left (counterclockwise)	<ul style="list-style-type: none"> <li>• Mueller model 2361</li> <li>• Clow</li> <li>• J&amp;S Valves Mod. 6900</li> <li>• VSI Series GV1 (GVI(XX)(M)N-DDSE-PS1 wh. XX=dia; M = Mech Jt)</li> </ul>
<b>VALVE BOXES</b>	
Cast iron c/w inside screw config., 130mm dia. Shaft with No. 6 base	<ul style="list-style-type: none"> <li>• Bibby complete with VB 825 cover</li> <li>• Star</li> <li>• Sigma</li> </ul>
Valve box aligner	<ul style="list-style-type: none"> <li>• Powerseal Model 5000</li> </ul>
<b>VALVE CHAMBERS</b>	
Concrete chambers as per OPSD 701.01; sized as per dwgs B-1682 & B-1810;	<ul style="list-style-type: none"> <li>• Brooklin Concrete</li> <li>• Oaks</li> </ul>
<b>VALVE CHAMBER FRAME &amp; COVER</b>	
Closed cover frame & grate Type A – OPSD 401.01; frost protection	<ul style="list-style-type: none"> <li>• Sigma</li> <li>• Bibby</li> <li>• Mueller</li> <li>• McCoy</li> <li>• Star</li> <li>• Star – Model 401.03 “Restricted Use”</li> </ul>