DOMESTIC WATER

A. COPPER TUBING
   a. 1-inch copper tubing, K-soft
      Approved Manufacturers:
      1) Cerro
      2) Mueller
      3) Halstead
      4) Cambridge Lee
   b. Factory Coated Copper Tubing
      Approved Manufacturer:
      1) Kamco Aqua Shield
   c. 1½-inch or 2-inch Copper Tubing, Rigid Pipe (Type “K” Soft in 20’ lengths)
      Approved Manufacturers:
      1) Cerro
      2) Mueller
      3) Halstead
      4) Cambridge Lee

B. SERVICE LINE FITTINGS
   a. Corporation Stops
      1-, 1½- and 2-inch; IPTx110 Compression
      Approved Manufacturers:
      1) Mueller #B-25028
      2) AY McDonald #4704BQ
      3) Jones #J1935SG
      4) Cambridge Brass #301NL series
      5) Ford #FB1100-Q-NL
b. Angle Meter Stops
   1-inch; 110 Compression x Swivel
   Approved Manufacturers:
   1) Mueller #B-24258-1 (no lip on swivel)
   2) Ford #BA43-444WQ
   3) Jones #J1963WSG
   4) AY McDonald #4602BQ
   5) Cambridge #210NL-H4T4

   1½-inch; 110 Compression x Flange
   Approved Manufacturers:
   1) Mueller #B-24276
   2) Ford #BFA43-666WQ
   3) Jones #J1975WSG
   4) AY McDonald #4602BQ
   5) Cambridge #210NL-H6MF6

   2-inch; 110 Compression x Flange
   Approved Manufacturers:
   1) Mueller #B-24276
   2) Ford #BFA43-777WQ
   3) Jones #J1975WSG
   4) AY McDonald #4602BQ
   5) Cambridge #210NL-H7MF7

b. Ball Valves, Brass, for Meters Only
   1-inch, 1½-inch and 2-inch (all to be lever handle, with no lip on swivel)
   Approved Manufacturers:
   1) Mueller B-24351-1
   2) AY McDonald #6101 MWHB3
   3) Cambridge # 212NL Series
   4) Ford #13-444W-NL w/HB24S (1”), #13-666W-NL w/HB67S (1 ½”),
      #13-777W-NL w/HB67S (2”)
d. Service Saddles
   For 12-inch pipe and smaller, copper alloy body and double strapped bronze
   Approved Manufacturers:
   1) Jones J-979
   2) Mueller BR2-B
   3) Ford 202B
   4) Smith-Blair 232
   5) Cambridge Brass 810

   For 18-inch pipe and larger, ductile iron service saddle epoxy coated or copper
   alloy body with triple stainless steel straps or extra wide single strapped stainless
   steel.
   Approved Manufacturers:
   1) Muller DR2S
   2) Smith-Blair 366
   3) Romac 202NS
   4) Ford FC202
   5) Power Seal

e. Straight Couplings
   Approved Manufacturers:
   1-inch; 110 Compression
   1) Mueller H-15403
   2) Jones J609SG
   3) Cambridge 119NL-H4H4

   1½-inch; 110 Compression
   1) Mueller H-15403
   2) Jones J2609SG
   3) Cambridge 119NL-H6H6

   2-inch; 110 Compression
   Approved Manufacturers:
   1) Mueller H-15403
COACHELLA VALLEY WATER DISTRICT
Approved Materials List

2) Jones J2609SG
3) Cambridge 119NL-H7H7

C. METER BOXES
   a. Meter Boxes for 1-inch, 1 1/2-inch, and 2-inch Service Lines (Non-traffic Areas)
      Approved Manufacturers:
      1) DFW Plastics Inc.
         a) Lid: DFW1640C-4 914P “CVWD” LID
         b) Box: DFW1640C-12-BODY
   b) Meter Boxes for 1-inch, 1½-inch and 2-inch Lines (Traffic Areas)
      Approved Manufacturers:
      1) DFW Plastics Inc.
         a) Lid: DFW1640C-4 “CVWD” LID
         b) Box: DFW1640C-12-BODY

D. COMMERCIAL METER – WELLS & BOOSTER STATIONS
   Approved Manufacturers:
   1) Krohne Enviromag Electromagnetic Flow Meter OPTIFLUX 2000

E. CONSTRUCTION METER
   Approved Manufacturers:
   1) Sensus #125
   2) Performance Meter
   3) Badger

F. FIRE HYDRANTS
   a. Dry Barrel
      Approved Manufacturers:
      1) Muller A423
      2) Mc Wane - Kennedy K-81A & Clow F-2545
      3) American Darling (AFC) #B-84-B
   b. Wet Barrel-Bronze Fire Hydrants
      Approved Manufacturers:
COACHELLA VALLEY WATER DISTRICT
Approved Materials List

1) James Jones #J-3765
2) Mc Wane/Clow #2060
3) AVK 2464

c. Wet Barrel-Ductile Iron Fire Hydrants
   Approved Manufacturers:
   1) James Jones #J4060
   2) Mc Wane/Clow #860
   3) AVK 24/90

d. Wet Barrel - Check Valve Fire Hydrants (Hydrant caps shall be bronze caps)
   Approved Manufacturers:
   1) Mc Wane/Clow #LB400
   2) Mc Wane/Clow #LP619 – Low Profile
   3) James Jones J-5000

G. AIR AND VACUUM RELIEF VALVES AND FITTINGS

a. 1-inch Air Relief Valves
   Approved Manufacturers:
   1) Vent-O-Mat Model 025RBX2521
   2) ARI Model D-040-1" Threaded
   3) ARI Model D-020 (Pressures below 20 psi)
   4) Vent-Tech 01WTR25TCS

b. 2-inch Air Relief Valves
   Approved Manufacturers:
   1) Vent-O-Mat Model 050RBX2521
   2) ARI Model D-40-2" Threaded
   3) Vent-Tech 02WTR25TCS

c. Copper Tubing Elbows 1-inch or 2-inch Compression x FIPT
   Approved Manufacturers:
   1) Mueller IP H15533
   2) Jones J2621SG
3) Ford L14-44-Q
4) AY McDonald 4779Q
5) Cambridge 105NL Series

d. Copper Tubing Elbows 1-inch or 2-inch Compression x Compression
   Approved Manufacturers:
   1) Mueller H-15526
   2) Jones J26115G
   3) Ford L44-77-Q
   4) AY McDonald 4761Q
   5) Cambridge 105NL Series

e. Copper Tubing Ball Valve 1-inch or 2-inch
   Approved Manufacturers:
   1) Mueller B25209
   2) Jones J1949S6
   3) Cambridge Brass 212NL – F4T4H (1 inch); 212NL – F7MF7H (2 inch)

f. Copper Tubing – Corporation Stop; 1-inch or 2-inch IPT x 110 Compression
   Approved Manufacturers:
   1) Muller B-25028
   2) Jones J1935SG
   3) AY McDonald 46704BQ
   4) Cambridge Brass 301NL series

g. Air/Vac Covers
   Approved Manufacturers:
   1) Armorcast
      P6002001B-SND; 24-inch round x 24-inch deep
      P6002002B-SND; 20-inch round x 24-inch deep
      P6002003B-SND; 12-inch round x 24-inch deep
   2) Pipeline Products Advantage Series (Added by Application #44)
      VCAS-1424-SM SANDSTONE
h. Threaded Red Brass Fittings
   1) Per ASTM B43 and containing a maximum of 0.25% lead

H. PIPE
a. Ductile Iron Pipe
   Approved Manufacturers:
   1) U.S. Pipe
   2) Mc Wane/Pacific States
   3) American CI

b. Ductile Iron Zinc Coated Pipe
   Approved Manufacturers:
   1) U.S. Pipe
   2) Mc Wane/Pacific States
   3) American CI

c. PVC – C909 CL 235 psi (8 – 12 inch diameter)
   PVC – C909 CL 165 psi (16 inch diameter)
   1) JM Eagle

d. PVC – C905 DR25 CL 165 psi (18 – 30 inch diameter)
   Approved Manufacturers:
   1) JM Eagle
   2) North American Pipe

I. PIPE FITTINGS
a. Flanged to Mechanical Joint Pipe adaptors (Ductile Iron)
   Approved Manufacturers:
   1) U.S. Pipe
   2) Tyler Union
   3) Star
   4) Sigma
5) Pipeline Components, Inc. (PCI)
6) SIP Industries (ARC Zinc Coating Optional)

b. Pipe Restraints - Tyton Joint Restraining Gaskets (18 inches or smaller)
   Approved Manufacturers:
   1) U.S. Pipe - Field Lok Gaskets
   2) Pacific States - Sure Stop 350
   3) Romac – Piranha Restraint Gasket
   4) Tyler Union - Sure Stop 350

c. Pipe Restraints - MJ Restraint Joints with wedge-action cleats
   Approved Manufacturers:
   1) Ebba Iron - Megalug
   2) Ford - Uniflange
   3) Star – Stargrip and 3000 series for DIP and 4000 series for PVC
   4) Romac - Romagrip
   5) Sigma – Onelok
   6) Tyler Union – TUF Grip Series 1500
   7) SIP Industries - EZ Grip

d. Pipe Restraints - Manufactured Self Restraining Joints
   Approved Manufacturers:
   1) U.S. Pipe - TR Flex
   2) Mc Wane/Pacific States – Thrust Lock
   3) Romac – Alpha Restraint Coupling
   4) Tyler Union - TUF Grip Series 200
   5) And the equivalent of American

e. Flexible Expansion Joints
   Approved Manufacturers:
   1) EBBA Flex Tend #408F21 (8-inch only)
   2) Star #SFPJ5008
   3) Romac – Flexijoint
f. Repair Coupling
   Approved Manufacturers:
   1) PowerSeal – Power Clamp, 3506 Powermax Cast Coupling, and 3490 Power Sleeve
   2) Smith Blair – Top bolt repair coupling
   3) Romac – Macro Coupling, 501 and XR501 Coupling
   4) Hymax 2 or Hymax Grip (restraint)

g. Flange Gaskets
   Approved Manufacturers:
   1) 1/16-inch Thick Laminated Nonasbestos Fiber, Cranite

h. Victaulic couplings and fitting for grooved end pipe
   Approved Manufacturers:
   1) Victaulic QuickVic Couplings 107N and 117N
   2) AGS W07 and W77 Couplings

J. VALVES
a. Gate Valves (Ductile Iron Body with Resilient Seal)
   Approved Manufacturers:
   1) American Flow 2500-1
   2) Mueller 2362 Series
   3) Clow F61
   4) American AVK Series 45 & 55

b. Butterfly Valves (Ductile Iron Body)
   Approved Manufacturers:
   1) Mueller Lineseal III Product line
   2) Dezurik

c. Single Check Detector Valves
   Approved Manufacturers:

d. Reduced Pressure Principle Valves
   Approved Manufacturers:
1) Apollo Valves 1" RPLF 4A
2) Apollo Valves 2" RPLF 4A
3) Apollo Valves RPDA 4ALF
4) Wilkins Backflow -1" 975XL-2
5) Wilkins Backflow – 2” 975XL-2

e. Double Check Valves
   Approved Manufacturers:
   1) Wilkins Backflow -1” 950XL-2
   2) Wilkins Backflow -2” 950XL-2
   3) Apollo Valves - 1” DCLF 4A
   4) Apollo Valves - 2” DCLF 4A
   5) Apollo Valves DCDA 4ALF - 4"-12"
   6) Apollo Valves DCDA 4nALF - 4"-12"
   7) Febco – LF876V 4”-10”

f. Valve Locking Devices (for Gate Valves)
   Approved Manufacturers:
   1) Protech (for gate valves)
      A1200
      A2400
      A3600
      A4800
   2) Protech (for butterfly valves)
      B1200
      B2400
      B3600
      B4800

g. Valve Wells Frame & Lid
   Approved Manufacturers:
   1) Bingham and Taylor Mark V –
      a. Base - GRE10RTF
b. Triangular Lid Water - CUL10LTVCWD-W

c. Triangular Lid Reclaimed Water - CUL10LTVCWD-RW

d. Triangular Lid Locking – I10LTIRWD-RW

h. Valve Well Riser
   1) 8-inch PVC C-900 CL-150

i. Protective Coatings
   Approved Manufacturers:
   1) Polyethylene Wrap – US Pipe V-Bio Wrap
   2) NO-OX-ID manufactured by SanChem, Inc.
   3) Bituminous Tar Mastic – manufactured by Christy’s HD-50
   4) Anti-Corrosion Wax Tape

K. WATER SUPPLY WELLS
   Approved Manufacturers or approved equal:
   1) Well Screen
      a. Roscoe Moss Company
   2) Filter Gravel
      a. Colorado Silica Sand Inc.
      b. Tacna Sand and Gravel LLC
   3) Motor Assembly
      a. General Electric, U.S. Motors
      b. Newman

L. CONCRETE VAULTS
   1) 200 Series Vaults:
      Approved Manufacturers:
      e. Jensens #K3048-FH45-27T (BR200-CVWD2)
      f. J&R Concrete #3500-IW
   2) 400 Series Vaults:
      Approved Manufacturers:
a. Jensens #K3660-FH45-27T (BR400-CVW2)
b. J&R Concrete #2640-IW

3) 500 Series Vaults:
   Approved Manufacturers:
   a. Jensens #K466-FH45-27T (BR500-CVW2)
   b. J&R Concrete #4660-IW

4) Confined Space Mounts
   Approved Manufacturers:
   a. Tuff Built Davit Mount (30033 and 30053)

M. PIPE SPACERS
   Approved Manufacturers:
   1) Cascade CCS series
   2) CCI Pipeline Systems
   3) BWM
   4) Calpico Inc.

N. UTILITY MARKER POSTS
   Approved Manufacturers:
   1) Flexstake, Inc. (No. EZWC206W – white with reflective strip)

O. TRACER WIRE
   Approved Manufacturers:
   1) Copperhead
   2) NEPTCO
SANITATION (WASTEWATER)

A. **AIR-VAC VALVES**
   Approved Manufacturers
   1) Vent-O-Mat
   2) ARI – D-025 Model D-025TP02LP

B. **WET WELL COATINGS**
   Approved Manufacturers:
   1) Sancon Epoxy 100
   2) Kopper's Bitumastic 300-M
   3) Engard 463
   4) Zebron

C. **MID-RANGE PIPE LOCATORS**
   Approved Manufacturers
   1) 3M Electrical Products Division
   2) Scotchmark Market Locator (EMS) #1258

D. **UTILITY MARKER POSTS**
   Approved Manufacturers
   1) Flexstake, Inc. (No. EZWC206W – white with reflective strip)

E. **PAINTING AND COATING**
   Approved Protective Coating Manufacturers or approved equal:
   1) PPG Protective and Marine Coatings
   2) Carboline Company
   3) Tnemec Company

F. **SANITARY SEWER SYSTEM TESTING**
   Approved Manufacturers or approved equal:
   1) Manhole Vacuum Testing Plugs and Test Heads
      a. Lansas
   2) Deflection Test Mandrel
      a. Hurco
G. CURED-IN-PLACE PIPE

Approved Liner Manufacturers or approved equal:
1) Inliner Technologies, LLC.
2) Insituform as manufactured by Insituform of North America, Inc.
3) Sancon Engineering CIPP.

H. MANHOLES AND PRECAST VAULTS

Approved Manufacturers or approved equal:

1) Sealing Compound
   a. Kent-Seal No. 2 – Hamilton Kent Manufacturing Company
   b. Ram-Nek – Henry Sealants

2) Joint Wrap
   a. Rub’R-Nek – Henry Company
   b. Seal Wrap – Sealing Systems, Inc.
   c. StopAQ EZ Wrap – Armcorr, Inc.

3) Precast Concrete Vault
   a. Brooks Series 500 Quickset

4) Confined Space Mounts
   a. Tuff Built Davit Mount (30033 and 30053)

5) Manhole Frames and Covers
   a. South Bay Foundry #1253/A1254 “CVWD SEWER”
   b. Alhambra Foundry Co. (48-Inch Diameter Manholes)
      i. #A-1254 (Standard), A-1254B (Sealed)
   c. Alhambra Foundry Co. (60 and 72-Inch Diameter Manholes)
      i. #A-1325 (Standard), A-1251 B-6 (Sealed)
   d. Norfolk Casting #NC 253 CVWD ASTM A48
   e. CL 35B

6) Manhole Linings
   a. PVC Lining
      i. Amer-Plate “T-Lock” – Ameron
b. Epoxy Lining
   i. Raven Lining System 405FS
   ii. Quadex Structure Guard

c. Polyurethane Lining
   i. Sancon 100
   ii. Zebron

d. Precast Vault Polyurethane Lining
   i. Sancon 100
   ii. Zebron

e. Precast Concrete Vault Interior Coating
   i. Sancon 100

f. Structural Rehabilitation
   i. Armorock polymer concrete manhole or insert

I. CONNECTION TO SANITARY SEWER SYSTEM

Approved Manufacturers or approved equal:

Connection to Existing VCP Main

1) New VCP Main
   a. Mission Flex-seal adjustable repair couplings
   b. Fernco Strong Back RC 1001

2) New PVC Main
   a. Mission Flex-seal adjustable repair couplings
   b. Fernco Strong Back RC 1002

3) New FRP Main
   a. Adapter coupling (plain ends) provided by FRP pipe manufacturer

Existing Sewer Manhole

4) New PVC Main
   a. Water stop grouting ring
      i. A-Lok Water Stop
      ii. Kor-N-Seal Water Stop Grout Ring
b. Flexible style water stop connectors
   i. Kor-N-Seal 106-406 Series

5) New FRP Main
   a. Connection to existing manholes
      i. Kor-N-Seal 106-406 Series
      ii. Flexible Connector
   b. New PVC Main
      i. A-Lock Z-Lock
      ii. Flexible Style Water Stop Connectors

J. FLEXIBLE PIPE COUPLINGS
   Approved Manufacturers or approved equal:
   1) Joints Calder Repair
   2) Fernco Adapter
   3) Max Adaptor Coupling

K. ECCENTRIC PLUG VALVES
   1) DeZurik Series 100 PEC
   2) Henry/Pratt Company Model 601
   3) Crispin K-flow
      a. 800 Series for 2 ½” – 12”
      b. 900 series for 14” – 18”
   4) Plug valve Exterior Coating
      a. Scotchkote 206N, Valspar Pipe Clad 1500
      b. AkzoNobel Resicoat Single Layer

L. CHECK VALVES
   Approved Manufacturer:
   1) Val-Matic Surgebuster Check Valve

M. PVC PIPE FOR SANITARY SEWER
   Approved Manufacturers or approved equal:
1) PVC Pipe  
   a. JM Eagle  
   b. North American Pipe Corporation  

2) Pipe fittings  
   a. HARCO Fittings  

**N. DUCTILE IRON PIPE**  
Approved Manufacturers or approved equal:  
1) Ductile Iron Pipe  
   a. U.S. Pipe  
   b. McWane Ductile  
   c. American Cast Iron Pipe Company  

2) Restrained Joints  
   a. Flex Ring by American Cast Iron Pipe  
   b. TR-Flex by U.S. Pipe  
   c. McWane Ductile  

3) Mechanical Joint Restraint Systems  
   a. Ebba Iron – Megalug  
   b. Ford – Uniflange  
   c. Star – Stargrip and 3000 series for DIP and 4000 series for PVC  
   d. Romac – Romagrip  
   e. Sigma – Onelok  
   f. Tyler Union – TUF Grip Series 1500  
   g. SIP Industries – EZ Grip  

4) Gaskets – Flanged Joints  
   a. Garlock  
   b. Klinger  
   c. Teadit  
   d. Cranite  
   e. U.S. Pipe
5) Flanged Fittings
   a. American Cast Iron Pipe
   b. McWane Ductile
   c. Sigma
   d. SIP Industries
   e. Star Pipe Products
   f. Tyler
   g. U.S. Pipe

6) Grooved-end Fittings and Couplings
   a. Victaulic Company of America
   b. Mueller/Anvil, Gruvlok brand
   c. TYCO Grinnell

7) Ceramic Epoxy Lining
   a. Protecto 401 Ceramic Epoxy Liner

8) Fusion Bonded Epoxy Lining and Coating
   100% Powder Epoxy
   a. 3M Scotchkote 206N
   b. Valspar Pipe Clad 1500
   c. Akzo Nobel Resicoat Single Layer Liquid Epoxy
   d. 3M Scotchkote 309

9) Service Saddle
   a. Mueller
   b. Jones

O. VITRIFIED CLAY PIPE SANITARY SEWER
   Approved Manufacturers or approved equal:
   1) Gladding McBean
   2) Pacific Clay
   3) Mission Clay Products
   4) Epoxy Resin
a. Epibond 157, Furane Plastics Inc.
b. WR633 A&B, Wyndham Chemicals Inc.
c. EPON 828, Shell Chemical Corporation

5) Joints
   a. “Wedgelock” or “Speed-Seal”

P. FIBERGLASS REINFORCED SEWER PIPE
   Approved Manufacturers or approved equal:
   1) HOBAS Pipe USA
   2) Thompson Pipe Group – Flowtite

Q. PVC SEWER FORCE MAIN
   Approved Manufacturers or approved equal:
   1) PVC Pipe – C900 DR-14 CL 305 psi (8 – 12-inch diameter)
      a. CertainTeed Corporation
      b. Diamond Plastics Corporation
      c. Ipex, Inc.
      d. North American
      e. Vinyltech Corporation
   2) Pipe and Couplings
      a. Series 1350 Uni-Flange
      b. Star Pipe Products Series 1100
      c. EBBA Iron MEGALUG
      d. Uni-Flange Series 1300
   3) Tracer Wire
      a. Copperhead
      b. NEPTCO
   4) Electronic Marker System (EMS)
      a. 3M Electrical Products Division
      b. Scotchmark Market locator Model No. 1258
R. HDPE PIPE FOR SEWER FORCE MAINS
   Approved Manufacturers or approved equal:
   1) HDPE pressure pipe
      a. JM Eagle
      b. Performance Pipe
   2) HDPE fittings
      a. ISCO Industries
      b. Performance Pipe
      c. Plasson USA
   3) Tracer Wire
      a. Copperhead
      b. NEPTCO
   4) HDPE EMS Markers
      a. 3M Electrical Products Division
      b. Scotchmark Market Locator Model No. 1258

S. SEWER CLEAN-OUTS
   1) Frame and Cover – Alhambra A1240
   2) Adjustable Clean-Out – Finish Line 834 Series
   3) Mid-Range Pipe Locators
      a. 3M Electrical Products Division
      b. Scotchmark Market Locator Model no. 1258

T. HOUSE LATERALS
   Approved Materials
   1) Connections to Sewer Mains
      a. PVC gasketed fittings – HARCO Fittings, or equal.
   2) Inserta Wye
      a. Inserta Tee, or equal.
   3) Saddle Wye
      a. Flexible Saddle Wye – Ferguson Flexible Tap, or equal
b. PVC Saddle Wye – HARCO Fittings, or equal  
c. FRP saddle wye with Section 33 31 15  

4) Laterals Unconnected to Dwelling Units  
a. Carsonite Utility Marker  

5) Mid-Range Pipe Locators  
a. 3M Electrical Products Division  
b. Scotchmark market Locator Model No. 1258
IRRIGATION (Canal Water)

A. PIPELINE MATERIALS

Approved Materials

a. PVC – C905 DR25 CL 165 psi (18 – 42 inch diameter)
   Approved Manufacturers:
   1) JM Eagle
   2) North American Pipe

b. PVC – C909 CL 235 psi (8 – 12 inch diameter)
PVC – C909 CL 165 psi (16 inch diameter)
   Approved Manufacturers:
   1) JM Eagle

c. Ductile Iron Pipe (42 inch diameter and greater)
   Approved Manufacturers:
   1) U.S. Pipe
   2) Mc Wane
   3) American CI

d. CML&C Pipe (42 inch diameter and greater)
   Approved Manufacturers:
   1) Northwest Pipe Company
   2) Thompson Pipe Group

e. HDPE Pipe – (bypass setup only)
   Approved Manufacturers:
   1) JM Eagle
   2) WL Plastic
   3) ISCO
   4) Ferguson
   5) Integrity Fusion
   6) Performance Pipe

f. HDPE fittings – (bypass setup only)
1) ISCO Industries
2) Performance Pipe
3) Plasson USA

B. FLOW METER
Approved Manufacturers (DC Power Source)
1) Water Specialties Model ML-04-D with Flow-Com Digital Register
2) McCrometer Model SW500 with Flow-Com Remote Read Digital Register
3) McCrometer UltraMag Model UM06 Electromagnetic Flow Meter (Battery Powered)

Approved Manufacturers (AC Power Source)
1) Krohne Enviromag Electromagnetic Flow Meter

C. BALLCENTRIC PLUG VALVE
Approved Manufacturers
1) Dezuric Series 100
2) Pratt/Milliken Model 601
3) Crispin K-Flo Model Number:
   800 Series 2-1/2” – 12”
   900 Series 14” – 48”

D. VAULTS
Approved Manufacturers
1) Jensen - K466-FH48-08TH precast water vault with spring assisted galvanized traffic cover.
2) J&R Concrete Products Inc.
3) Olson Precast
4) Oldcastle Precast
5) Confined Space Mounts
   a. Tuff Built Davit Mount (30033 and 30053)

E. PIPE CONNECTOR
Approved Manufacturers
1) Weko-Seal: An internal joint sealing technology used to eliminate infiltration/exfiltration in piping ranging in sizes from 18” through 96”

2) Joints Coupling – Calder Style with shear band

**F. AIR-VAC VALVES**

Approved Manufacturers

1) ARI – D-025 (0.75 – 150 PSI)
2) ARI – D-020 (0.75 – 250 PSI)
3) Vent-O-Mat

**G. UTILITY MARKER POSTS**

Approved Manufacturers

1) Flexstake, Inc. (No. EZWC206W – white with reflective strip)

**H. TRACER WIRE**

Approved Manufacturers:

1) Copperhead
2) NEPTCO
ELECTRICAL AND TELEMETRY

A. **AUTOMATIC TRANSFER SWITCH (ATS)**
   Approved Manufacturers
   1) Eaton

B. **EMERGENCY ELECTRIC GENERATING SYSTEMS (GENERATORS)**
   Approved Manufacturers
   1) Caterpillar
   2) Cummins

C. **MOTOR CONTROL CENTERS (MCC)**
   Approved Manufacturers
   1) Allen Bradley
   2) Eaton
   3) Square D

D. **VALVE ACTUATORS (MOV)**
   Approved Manufacturers
   1) Auma
   2) EIM
   3) Rotork

E. **PROGRAMABLE LOGIC CONTROLERS (PLC)**
   Approved Manufacturers
   1) Emerson RX3i’s programmed in GE Proficy ladder logic
   2) Emerson Versamax

F. **VARIABLE FREQUENCY DRIVES (VFD)**
   Approved Manufacturers
   1) US Drives
   2) Eaton