UPDATE LOG FOR APPROVED MATERIALS LIST

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<td>I. Water/Recycled Water Facilities</td>
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<td>A. Valves - Per Valve Application Table (herein)</td>
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<td></td>
<td>1. Resilient Seat/Wedge Gate Valve</td>
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<td></td>
<td>150 psi</td>
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<td>Crispin K-Flo – CL150- Model 47 (24 30” and larger)</td>
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<td>DeZurik - BAW Series</td>
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<td>Milliken – CL150 – Fig. 501 Model 511</td>
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<td>Pratt Groundhog (below-ground)</td>
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<td>Pratt HP250II</td>
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<td>4. Plug Valves</td>
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<td>C. Air Valve Units</td>
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<td>Apco 2&quot; - 145C</td>
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<td>Valmatic 4&quot; - Model 204C</td>
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<td>G. Tapping Sleeves and Service Saddles</td>
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<td>2. Service Saddle</td>
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<td>PVC Pipe C-900 – Double SS Strap</td>
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<td>Or Wide Single SS Strap</td>
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<td><strong>Less than 12&quot; Diameter</strong></td>
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<td>A.Y. McDonald - C900 Saddle – 3846 and 3856</td>
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<td>Ford - Model 202BS</td>
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<td>Jones - Series 969</td>
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<td></td>
<td>Romac - Series 202BS or 202NS (high pressure)</td>
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<td>Mueller - BR2S or DR2S (high pressure)</td>
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<td><strong>PVC Pipe C-905</strong></td>
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</table>

I. Water/Recycled Water Facilities

G. Tapping Sleeves and Service Saddles

2. Service Saddle

- PVC Pipe C-900 – Double SS Strap
- Or Wide Single SS Strap

- More than 12” Diameter
  - Power Seal - Series 341AS
  - Romac - Series 202N
    (with epoxy coating)

II. Sewer Facilities

A. Sewer Manhole Liners

SRECO/Feable Systems

B. Cast-Iron Composite Manhole Frames and Covers

1. EJCO 2600 Assembly Product Number NPR19-000123A01
2. EJCO 3800 Assembly Product Number NPR19-000225A01

Alhambra Foundry Co.
South Bay Foundry
Certain Teed

C. Stepping Irons Manhole Lid Hardware

NEXTER
TITUS TwistLIFT TL-125

C. Fiberglass Manholes Valves

Containment Solutions
1. Plug Valves
   - DeZurik eccentric, full port
2. Air Valves
   - ARI - AV/AR Valves

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II. Sewer Facilities

D. Pumps

1. Fairbanks-Morse
2. Flyght
3. KSB

III. Electrical

A. Motors *(High Efficiency, Inverter Rated)*

General Electric Corporation
Emerson Electric Co.
U.S. Electrical Motors Division
Baldor

B. Magnetic Flow Meter

Endress Hauser Promag W 400

C. Conductive Waterproof Compound

Zinc Clads Primer Coating No. B69A45
HTL-4 by Crouse-Hinds
Kopr shield by Thomas & Betts
Burndy

D. Flex Conduits (Electrical)

American Brass
Anaconda
Electroflex

E. Wire and Cable (Electrical)

Anaconda
General Cable
General Electric
Okonite
Triangle

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III. Electrical

F. **E.** Compression Connectors

- Burndy “HI lug”
- Thomas & Betts “Shure Stake”

G. **F.** Pre-Insulated Springs Connectors

- Ideal Wing Nuts
- 3M

H. **G.** Pre-Insulated Fork Tongue Lugs

- Thomas & Betts RC Series
- Burndy

I. **H.** High Temperature Vinyl Tape

- 3M Scotch (33+)
- 3M Scotch (23)

J. **I.** Insulated Bushings

- Thomas & Betts
- Steel City
- Appleton
- Burndy

K. **J.** Insulated Ground Bushings

- Thomas & Betts
- Steel City
- Gedney
- Burndy

L. **K.** Erickson Coupling

- Appleton Type EC, 3-Piece Coupling
- Thomas & Betts
- Steel City
- Gedney
- Hubbell
- **Hoffman**
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<td>Dwyer - All other applications (0 - 600 psi)</td>
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**III. Electrical**

**S. Thermostats**

- Chromalox Type WR-80
- Rittal
- Hoffman
- Square D
- Wiegmann
- Vulcan

**T. Space Heaters**

- Chromalox No. EH-1221
- Rittal
- Hoffman
- Square D
- Wiegmann
- Vulcan

**U. Switches and Push Buttons (30 mm)**

- Cutler Hammer
  - G.E. Type CR294OU,
  - Square D, Class 9001, Type K

**V. Indicating LED Lights (Lamps)**

- General Electric
- Sylvania
- Cutler Hammer
- Square D

**W. AC Relays (Ice cube, pin type)**

- Cutler Hammer
  - Westinghouse Type ARD,
  - Square D, Class 8501, Type L
  - IDEC

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<td>X. DC Relays (Ice cube, blade type)</td>
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<td>Cutler Hammer</td>
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<td>Westinghouse Type BFD</td>
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Appendix “A”

APPROVED LIST OF MATERIALS

I. Water/Recycled Water Facilities

A. Valves - Per Valve Application Table (herein)

1. Resilient Seat/Wedge Gate Valve

   150 psi
   American Flow Control - Series 2500
   AVK Valve - Series 25
   Clow Valve - Series F6102
   M&H Valve - Series 7561, 7571, 7572
   Mueller Valve - Series A-2360

   200 psi
   Mueller Valve - Series A-2360
   US Pipe - Metro Seal
   AVK Valve - Series 25
   M&H Valve - Series 7561, 7571, 7572

   250 psi
   American Flow Control - Series 2500
   AVK Valve - Series 45
   Clow Valve
   M&H Valve - Series 7561, 7571, 7572

2. Butterfly Valves

   150 psi
   Crispin K-Flo 504 (4”-20”)
   Crispin K-Flo 47 (24” and larger)
   DeZurik - BAW Series
   Milliken Model 511
   Mueller Lineseal III - B3211
   Pratt Groundhog (below-ground)

   250 psi
   Crispin K-Flo 504
   DeZurik - BAW 250
   Mueller Lineseal XPII - B5227
   Pratt HP250II

3. Metal Seated Butterfly Valves

   350 psi
   Mueller Lineseal 350 - B5227
   Pratt - HP350

B. Valves - 2” and Smaller

1. Ball Valves 400/600 WOG (Small Diameter)

   Apollo 70-100
   Jones-J1900-(Air Valve Installations)
   A.Y. McDonald 6100FH

2. Ball Angle Meter Stops MIPT x CU Flare - 1”, 1½”, & 2”

   Jones E-1964W/E-1973W
   Ford BFA23-444W/666W/777W
   Mueller B-24255/B-24277
   A.Y. McDonald - 74602B
   Cambridge - Series 210NL
3. **Curb Stop**

Ford – ¾” - B11-333W-NL
1” - B11-444W-NL
1½” - B11-666W-NL
2” - B11-777W-NL

Jones - E1900W
A.Y. McDonald - 76101W
Mueller - B20283N
Cambridge - Series 212NL

4. **Angle Curb Valve (Flare x FNPT)**

Muller 300 - B24275 or approved equal

5. **Ball Corp Stops MIPT x CU Flare - 1”, 1½”, & 2”**

Jones E-1929
Ford FB700 Series
Mueller B25025
A.Y. McDonald - 74704B
Cambridge - Series 301NL

**C. Air Valve Units**

1a. **AV/AR Valves – Single Body**

Apco 1” - 143C
Apco 2” - 145C
Apco 4” - 149C
ARI D-040
Crispin 1” - Model UL10
Crispin 2” - Model UL20
Crispin 4” - Model UL41
Valmatic 1” - Model 201C
Valmatic 2” - Model 202C
Valmatic 4” - Model 204C

1b. **AV/AR Valves – Dual Body**

(Pump Station, Well, and Reservoir Manifolds)

Apco 1800 Series
Valmatic 1” - Model 101S
Valmatic 2” - Model 102S
Valmatic 4” - Model 104S

**D. Fire Hydrants**

1. **Residential (standard) 2-Port**

Jones 6” - 3700, 3710, 4040
Clow 6” - 2050, 850, 950
AVK 6” - 2462, 2470

a. High Pressure Fire Hydrants

AVK - Series 2472 (with integral 8-hole break-off spool)

2. **Commercial (super) 3-Port**

Jones 6” - 3765, 4060
Clow 6” - 2060, 860, 960
AVK 6” - 2464, 2490

**E. Backflow Prevention Valves**

1. **Double Check Detector Assembly or Reduced Pressure Detector Assembly**

(USC/FM/UL-approved)

2. **Reduced Pressure Principle Backflow Prevention Assembly**

(Lead Free, USC/FM/UL-approved)

3. **Silent Check Valve**

Wafer Style:

Apco - Series 300

Globe Style:

Apco - Series 600

Cla-Val - Series 581

Crispin - GC

4. **Single Swing Check Valve**

(¾” - 2”)

(Buna or Teflon Seat)

Milwaukee

Hammonds
5. **Double Swing Check ¾” - 1” Valve**
   - Watts No. 7 Dual Check Valve
   - FEBCO No. 810 Dual Check Valve

6. **Swing Check Valve**
   (With Weight/Lever)
   - Clow/M&H - 159-02
   - Mueller - A2600-06-01
   - APCO/DeZurik Series 250
   - APCO/DeZurik Series 6000
   - American - Darling Model 52-SC

7. **Hydraulic Check Valves**
   - Apco
   - Dresser/M&H

8. **Resilient Seated Check Valve**
   - American Flow Control – Series 2100

F. **Control Valves**

1. **Pressure Relief Valve**
   - Cla-Val
     (Model 50G-01 BKC D/S – Max. 8”)

2. **Pressure Reducing Valve**
   - Cla-Val
     (Model 90G-01 BYKC D/S – 8” and smaller)
     (Model 690G-01 BYKC D/S – 10” and larger)

3. **Altitude Valve**
   (5’ – 40’ Range)
   - Cla-Val
     (Model 210G-01 BYKC D/S – 16” and smaller)
     (Model 610G-01 BYKC D/S – 20” and 24”)

4. **Pump Control Valve**
   (Well Pumping Plant)
   - Pump-To-Waste
     Cla-Val
     (Model 61G-02 BYKC D/S)
     (In-Line Combination Back Pressure, Solenoid S/O & Check Valve)
     Cla-Val
     (Model 58G-01 BDKC)

5. **Pump Control Valve**
   (Booster Pumps) (In-Line Combination Pump Control Valve/Check Valve)
   - Cla-Val
     (Model 60G-11 BCKC D/S or Model 60G-73 BCKC D/S – 8” and smaller)
     (Model 60G-31 BYKC D/S – 10” and larger)

6. **Surge Anticipator**
   - Cla-Val Model 52G-03 BKC D/S

7. **Basic Valve**
   - Cla-Val (Model 100-01, Clayton Hytrol Valve)

G. **Tapping Sleeves and Service Saddles**

1a. **Tapping Sleeve**
    (Stainless Steel)
    - Ford - Series FAST and FTSS
    - Power Seal - Series 3490AS
    - Romac - Series SST
    - JCM – Series 432

1b. **Tapping Sleeve**
    (Ductile Iron with Fusion Epoxy Coating)
    - Power Seal
    - Romac
2. **Service Saddle**

   AC Pipe - Double Strap  
   S.S. or Bronze

   - Jones Series 979
   - Ford - Model 202BS
   - Romac - Style 202

   **PVC Pipe C-900 – Double SS Strap**  
   Or **Wide Single SS Strap**

   - Less than 12” Diameter
     - A.Y. McDonald - C900 Saddle – 3846 and 3856
     - Ford - Model 202BS
     - Jones - Series 969
     - Romac - Series 202BS or 202NS (high pressure)
     - Mueller - BR2S or DR2S (high pressure)

   - More than 12” Diameter
     - Power Seal - Series 341AS
     - Romac - Series 202N (with epoxy coating)

   **H. Joint Restrainers**

   1. **PVC Pipe Mechanical Joint Restraints**

   **Valve/Fitting Application**

   a. **EBBA - Iron (Megalug)**

      Series 2000 Pipe Sizes 4” - 30”

   b. **Ford (Uniflange)**

      (1) Series 900 - Adaptor Flange  
      - Pipe Size up to 12”
      (2) Series 1300 - Pipe Size up to 24”

   c. **Sigma Joint Restrainers**

   d. **Tyler Union – Tuf Grip (Red)**

   e. **Romac**

      (1) “Grip Ring” Style No. 612
      (2) “Roma Grip”
      (3) RFCA for PVC Pipe

   f. **One Bolt**

   g. **JCM – Series 610**

   h. **Star Pipe Products – Series 1000**

   **Bell and Spigot Application**

   a. **EBBA - Iron (Megalug)**

      (1) Series 1500 - Pipe Size up to 12”
      (2) Series 2800 - Pipe Size greater than 12”

   b. **Ford (Uniflange)**

      Series 1350 - Pipe Size up to 24”

   c. **Sigma Joint Restrainers**

   d. **Romac**

      (1) “Grip Ring” Style No. 611
      (2) “Roma-Grip”

   e. **JCM – Series 620**

   f. **Star Pipe Products – Series 1100**

   **I. Ductile Iron Fittings**

   **Clow**

   Long Beach Iron
   Tyler Pipe Inc.
   Sigma
   South Bay Foundry
   Star
   Union Foundary Company
   SIP Industries
J. Plastic/Concrete Boxes/Vaults/Vault Lids

1. Plastic Meter Boxes & Lids

¾" - 1" Services:
- Carson 1220-12
- Applied Engineering 1320-1G2G

1½" - 2" Services:
- Carson 1220-12
- Applied Engineering 1320-1G2G

1" AV/AR:
- Carson 1220-12
- Applied Engineering 1320-1G2G

2" AV/AR
- Carson 1730-18
- Applied Engineering 1730-18P2P

2. Round Plastic Valve Boxes (Test Station Boxes)

a. Applied Engineering Model 910

b. Carson Model 910

3. Concrete Boxes/Vaults (Per Standard Drawings and Specs)

Associated
Best Concrete Products
Brooks
Christy
J&R Products
San Diego Pre-Cast
B & W Pre-Cast

4. Spring-Loaded Aluminum Lids

Puritan Manufacturing
USF Fabrication, Inc.
Bilco Co.
Lasco Lids

K. PVC Pipe C900

Vinyl Tech
Diamond
North American Pipe

L. Pumps

Goulds
Peerless
Byron Jackson
Fairbanks-Morse

M. Casing Spacers and Insulators

Advance Products & Systems

N. Repair Couplings

Romac 501, XR-501, and Macro
Total Piping Solutions – Hymax Coupling

O. Grooved Couplings

Victaulic (Style 77)
Gruvlok (Fig. 7001)

II. Sewer Facilities

A. Composite Manhole Frames and Covers

1. EJCO 2600 Assembly Product Number NPR19-000123A01
2. EJCO 3800 Assembly Product Number NPR19-000225A01

B. Manhole Lid Hardware

TITUS TwistLIFT TL-125

C. Valves

1. Plug Valves
   DeZurik eccentric, full port
2. Air Valves
   ARI - AV/AR Valves
D. Pumps

1. Fairbanks-Morse
2. Flyght
3. KSB

III. Electrical

A. Motors (High Efficiency, Inverter Rated)

General Electric Corporation
Emerson Electric Co.
U.S. Electrical Motors Division
Baldor

B. Magnetic Flow Meter

Endress Hauser Promag W 400

C. Conductive Waterproof Compound

Zinc Clads Primer Coating No. B69A45
HTL-4 by Crouse-Hinds
Kopr shield by Thomas & Betts
Burndy

D. Flex Conduits (Electrical)

American Brass
Anaconda
Electroflex

E. Wire and Cable (Electrical)

Anaconda
General Cable
General Electric
Okonite
Triangle

F. Compression Connectors

Burndy “HI lug”
Thomas & Betts “Shure Stake”

G. Pre-Insulated Springs Connectors

Ideal Wing Nuts
3M

H. Pre-Insulated Fork Tongue Lugs

Thomas & Betts RC Series
Burndy

I. High Temperature Vinyl Tape

3M Scotch (33+)
3M Scotch (23)

J. Insulated Bushings

Thomas & Betts
Steel City
Appleton
Burndy

K. Insulated Ground Bushings

Thomas & Betts
Steel City
Gedney
Burndy

L. Erickson Coupling

Appleton Type EC, 3-Piece Coupling
Thomas & Betts
Steel City
Gedney
Hubbell
Hoffman

M. Liquid-Tight Fittings

Appleton Type ST
Crouse-Hinds
Thomas & Betts
Gedney
Hubbell

N. Hubs

Appleton Type HUB
Thomas & Betts
Myers Scru-Tite
Hubbell
O. Pressure Transmitters

Rosemount - Reservoirs (0 - 30 psi)
Dwyer - All other applications (0 - 600 psi)

P. Pressure Switches

Mercoid
Ashcroft

Q. Line Ammeter

G.E.
Compton
Yokogawa

R. Ammeter Switch

G.E.
Compton
Yokogawa

S. Thermostats

Rittal
Hoffman
Square D
Wiegmann
Vulcan

T. Space Heaters

Rittal
Hoffman
Square D
Wiegmann
Vulcan

U. Switches and Push Buttons (30 mm)

Cutler Hammer
Square D, Class 9001, Type K

V. LED Lights (Lamps)

Cutler Hammer
Square D

W. AC Relays (Ice cube, pin type)

Cutler Hammer
Square D
IDEC

X. DC Relays (Ice cube, blade type)

Cutler Hammer
Square D
IDEC

Y. Reset Timers

Cutler Hammer
Square D
IDEC

Z. Phase Failure Relay

Cutler Hammer
Square D
IDEC

AA. Induction Relay

Cutler Hammer
Square D
IDEC

BB. Elapsed Time Meter

Cutler Hammer
Cramer
Square D
IDEC

CC. Customer Metering System

Cutler Hammer
Cramer
Square D
IDEC

DD. Customer Metering System

Cutler Hammer
Square D
EE. **Lighting Arrestors**

Cutler Hammer
Square D

IV. **Paint**

A. **Manufacturers:** One of the following or equal:

1. Devoe: Devoe Coatings, Louisville, KY
2. Dunn Edwards: Dunn Edwards Paints, Los Angeles, CA
3. Sherwin-Williams Co., Cleveland, OH
4. Tnemec: Tnemec Co., Kansas City, MO.
5. FSC Coating

B. **Pretreatment, Primers, Primer-Sealers, and Wood Stain**

1. **Aluminum Primer:** One of the following or equal:
   a. S/W: DTM Wash Primer B71Y1 for alkyd systems; none required for latex systems
2. **Concrete Masonry Filler/Primer:** One of the following or equal:
   a. S/W: B42W46, Block Filler Interior/Exterior
   b. Tnemec: 130-6601, Envirofill
3. **Concrete, Porous, Filler/Primer:** One of the following or equal:
   a. S/W: B42W46, Block Filler Interior/Exterior
   b. Tnemec: 130-6601, Envirofill
4. **Concrete, Smooth, Filler/Primer:** One of the following or equal:
   a. S/W: B61W2, Epoxy Ester Masonry Filler/Sealer
   b. Tnemec: W55 WB, Tneme-Crete
5. **Ferrous Metal Primer:** One of the following or equal:
   a. S/W: B50WZ1, Kem Kromik Universal Metal Primer
   b. Tnemec: Series 135 Chembuild
6. **Galvanized Metal Surface Pretreatment Materials:** One of the following or equal:
   b. S/W: P60G2, Wash Primer
   c. Tnemec: 32-1210, Tneme-Grip
7. **Galvanized Metal Surface Primer:** One of the following or equal:
   a. S/W: Galvite HS B50WZ30 for alkyd systems; none for latex systems
   b. Tnemec: Series 135 Chembuild
8. **Plaster Sealer:** One of the following or equal:
   a. S/W: PreRite 200 Primer B28W200
   b. Tnemec: 51-792, PVA Sealer
9. **Plywood, Latex Finishes:** One of the following or equal:
   a. S/W: B42W41, A100 Latex Primer
   b. Tnemec: Series 151, Elasto-Grip
10. Wood Primer for Opaque Finish Paint, Interior Exposure: One of the following or equal:
   a. S/W: B49W2Z, Wall and Wood Primer

11. Wood Primer for Opaque Finish Paint, Exterior Exposure: One of the following or equal:
    a. S/W: Y24W20, A-100 Primer

12. Wood Stain: One of the following or equal:
    a. S/W: Wood Classics Interior, Oil Stain

C. Paints, Interior Exposure

1. Latex, Flat: One of the following or equal:
   a. S/W: Promar 200, Latex Flat Wall Paint
   b. Tnemec: Series 6, Tneme Cryl

2. Latex, Semi-Gloss: One of the following or equal:
   b. Tnemec: Series 7, Tneme Cryl

3. Alkyd, Gloss: One of the following or equal:
   a. S/W: B54Z, Industrial Enamel, VOC Complying

4. Acrylic, Semi-Gloss: One of the following or equal:
   a. S/W: Min-Wax Helmsman Varnish

5. Urethane Varnish, Clear: One of the following or equal:
   a. Flecto: Varathane Exterior Liquid Plastic
   b. S/W: A67V4, Exterior Varnish

6. Oil: One of the following or equal:
   a. Watco Danish Oil

D. Paints, Exterior Exposure

1. Latex, Flat: One of the following or equal:
   a. S/W: A-100, Flat Exterior Latex
   b. Tnemec: W55 WB, Tneme-Crete

2. Alkyd, Gloss: One of the following or equal:
   a. S/W: B54Z, Industrial Enamel, VOC Complying

3. Acrylic Latex, Semi-Gloss: One of the following or equal:
   a. S/W: A100, Latex House and Trim Paint

4. Urethane Varnish, Clear: One of the following or equal:
   a. Flecto: Varathane Exterior Liquid Plastic
   b. S/W: A67V4, Exterior Varnish

E. Colors

1. Potable Water – Blue, Tan (Frazee “Travatan,” Color No. 213), or Safety Yellow
2. Recycled Water – Magenta
3. Sewer/Wastewater - Green