CITY OF SARASOTA, FLORIDA

APPENDIX A-2

WASTEWATER APPROVED MATERIAL LIST

PLEASE TYPE OR PRINT CLEARLY IN BLACK INK

Project Name:		
Contract / Bid Number:	Work Assignment Number:	
Contractor's Name:		
Contractor's Address:		
Contractor's Signature:		_
For Cit	cy Use Only	
(Refer to Section	n 01300 – Submittals)	
Engineer:	Date:	
Reviewed, No Comments:		
Reviewed, Comments as Noted:		
Reviewed, Comments Attached – Resubmit:		
Rejected, Revise and Re-submit, Comments Attached:		
Not Reviewed:		
City Project Manager:	Date:	
Comments:		
		_
		_
		-

With the submission of this document, the CONTRACTOR understands that the use of the following selected items, as individually indicated using an "X", is mandatory. The products included in this list are approved for wastewater service only.

Recommendations for Approved Alternates, using other items that are not contained within this Checklist, shall be initiated, and submitted by the CONTRACTOR, in accordance with Section 00800-General Provisions, to the CITY and the ENGINEER for review and approval at least ten (10) calendar days in advance of need.

It is also understood by the CONTRACTOR that the CITY and the ENGINEER shall reject materials and products not in accordance with this Specifications and this Checklist.

Shop drawings shall be required for all structures and similar items not contained on this checklist, such as manholes, wet wells, and other castings.

Four (4) sets of the CONTRACTOR's and the ENGINEER's executed APPROVED MATERIALS CHECKLIST and any necessary shop drawings shall be submitted to the CITY and the ENGINEER for its use and approval, plus the number of sets needed for the CONTRACTOR's use.

Ordering material and products without specific written approval from the CITY of the submitted list and shop drawings is NOT recommended and is done at the CONTRACTOR's sole expense and responsibility.

NOTE: The latest changes approved by the CITY are indicated by "underlining" and deleted items by "strikethroughs".

American Iron and Steel, Buy American Act, or any procurement requirements identified in the contract documents shall take precedence over the materials listed in this checklist.

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Section 2: Pipe Material and Accessories

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SECTION 1: VALVES AND ACCESSORIES

Automatic Combination Air / Vacuum Release Valve:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

H-Tec Model 986, 989, 990 Short Body for 989

Golden Anderson 929

ARI D-025 (short version)

<u>Gate Valves 14-Inch Through 48-Inch (C-515, Resilient Seated, with Side Actuators, if Required):</u>

ManufacturerPart NumberCommentsMuellerA-2361Epoxy CoatedMcWayne/ClowF-6100Epoxy CoatedAmericanSeries 2500Epoxy Coated

Gate Valves 3-Inch Through 12-Inch (C515, Resilient Seated Only):

ManufacturerPart NumberCommentsMuellerA-2361Epoxy CoatedMcWayne/ClowF-6100Epoxy CoatedAmericanSeries 2500Epoxy Coated

Check Valves:

ManufacturerPart NumberCommentsCS3 WATERWORKSLUDLOW SERIES ASSA C508 Swing Check Valves

Kennedy Mueller VSI

Plug Valves (Full / 100% Port):

Manufacturer Part Number Comments

CS3 WATERWORKS ECO-CENTRIC

DeZurik VSI

Val-Matic Eccentric Plug Valve

Insertion-Valves:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

TEAM Insert-Valve 4'' - 12'' Hydra-Stop IV-250 / IVP-250

Air / Vacuum Release Valve Enclosures (Medium Green):

Manufacturer Part Number Comments

Water Plus Corp. 107-G With Pin Allen Type Lock

Air / Vacuum Release Valve Service Saddles (All Stainless Wrap-Around Band, 2" NPT Outlet):

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Total Piping Solutions T3 Series

Ford FS 313, 323, and 333 with Bellville washers for HDPE

Air / Vacuum Release Ball Valve (Stainless Steel, Full Bore, FIP x FIP):

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Apollo 76F-100-A Series

Curb Stops

Leemco, Inc., USA 316-Series Stainless Steel Sizes 1", 1" ANGEL, 2"

www.Ferguson.com/Waterworks

Valve Box with Lids (5 ¼ - Inch, ASTM A48 30B Heavy Duty Cast or Ductile Iron, with "SEWER" Cast into the Lid Top:

Manufacturer Part Number Comments

Tyler 461-S, 462-S, 6850, 6860 Must be Cast in USA

Bingham/Taylor I5B20, I5B18

Valve Box Stabilizer (Green):

Manufacturer Part Number Comments

Bingham & Taylor ADP90001GRN

Valve Box Debris Cap:

Manufacturer Part Number Comments

Bingham & Taylor ODSDEISP12B

Curb Stop and Check Valve Assembly / Lateral Kit:

Manufacturer Part Number Comments

E-One

SECTION 2: PIPE MATERIALS AND ACCESSORIES

FRPM (Fiberglass Reinforced Polymer Mortar) Pipe:

Manufacturer Part Number Comments

HOBAS Pipe USA, Inc. Filament Wound Pipe

PVC (Light Green) 4-Inch and Larger Pipe (AWWA C-900, DR18):

Manufacturer Part Number Comments

Bristolpipe

J-M Manufacturing

IPEX

Diamond Plastics Freedom Plastics National Pipe

NAPCO (North American Pipe Company)

Underground Solutions Fusible PVC Requires COSUD Approval

PVC Gravity Pipe – Mains and Services (SDR 26, Light Green in Color:

Manufacturer Part Number Comments

Certainteed Can-Tex

J-M Manufacturing Diamond Plastics Freedom Plastics Bristolpipe National Pipe Vassallo

NAPCO (North American Pipe Company)

<u>Ductile Iron Pipe (4-Inch to 12-Inch = PC 350, 16-Inch to 20-Inch = PC 250, 24-Inch to 64-Inch = PC 200) (DI Flanges as Applicable, AWWA C115) (P401 Coating System):</u>

Manufacturer Part Number Comments

American Clow Griffin McWane US Pipe

HDPE Pipe (DR11, Green Striped):

Manufacturer Part Number Comments

Driscopipe Series 1000 Chevron Plexco

HDPE PVC Pipe (PE4710)

Manufacturer Part Number Comments

PIPELINE PLASTICS PE4710

Painting Finish (Exterior):

Manufacturer Part Number Comments

Koppers No. 505

Carboline

Bitumastic 300M

<u>Force Main Locating Wire (Single Strand 12-Guage Solid Copper Wire with Green Colored Insulated Covering:</u>

Manufacturer Part Number Comments

Copperhead CCS (Reinforced Tracer Wire) 1230 HS Open Cut Installation
Copperhead CCS (Reinforced Tracer Wire) 1245 EHS HDD Installation

<u>Force Main Identification Tape (Light Green, 6-Inches Wide, 2-Inches High Black Lettering, Non-Adhesive Backed):</u>

Manufacturer Part Number Comments

Pro-Line

Buried Force Main Warning Tape (Light Green, 3-Inches Wide, 1-Inch-High Black Lettering, Non-Adhesive Backed):

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Zurn / Wilkins 375, 375XL, 975XL

Poly Pig:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Knapp Poly Pig Girard Poly Pig

Wastewater Service Saddle (Ductile Iron Saddle Body, Stainless Steel Strap):

Manufacturer (Continued) Part Number Comments

Romac "CB" Sewer Saddle For use with lined VC Pipe

Gravity Service Fittings (SDR 26):

Manufacturer Part Number Comments

Multi Harco

Royal Plastic Trends

Pipe Adapters:

Manufacturer Part Number Comments

Fernco Flex Coupling
Fernco The Hulk

Indiana Steel Maxadapter

SECTION 3: PIPE FITTINGS

Fittings (All Sizes), Compact, Ductile Iron AWWA 153):

Manufacturer Part Number Comments

American Romac Alpha or MJ Ends

Tyler / Union US Pipe Sigma Starr

SIP Industries

Flange Adapters:

Manufacturer Part Number Comments

Rockwell International Type 913
Baker Type 602
Dresser International Type 128
Smith Blair Series 900

EBAA MEGA Flange Restraining Romac Alpha FC, RFCA Restraining

Casing Spacers (All Sizes) Stainless Steel with Vinyl Runners Centering:

Manufacturer Part Number Comments

Cascade Series CCS / CCPS / AZ

RACI Series S/T, F/G, P/Q, M/N, E/H

BWM SS

Interior Coatings – Ductile Iron Pipe:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

InduronProtecto 401Permox CTFPermox CTF

Restrained Joints – Ductile Iron Pipe:

Manufacturer Part Number Comments

American Cast Iron Pipe Flex Ring or Lok-Ring US Pipe TYTON® or HDSS

Mechanical Restraining Joints – Ductile Iron Pipe:

Manufacturer Part Number Comments

EBAA Iron Inc. Mega-Lug Series 1100

Series 1700 Bell Restrainer

Series RS-3800 Restrainer – sleeve included

Sigma One LOK SLD, PV LOK

Mechanical Restraining Joints – Ductile Iron Pipe Continued:

Star Pipe Products Stargrip Series 3000, 300S & 3000OS

Stargrip Series 3100S & 3100P Flange Adapter Series 200 & 400

Retainer Glad Series 600

Tyler / Union Tufgrip Series 1000

US Pipe EZ Grip

Mechanical Restraining Joints – PVC Pipe:

Manufacturer Part Number Comments

EBAA Iron Inc. (Continued) Megalug Series 2000PV

Series 1500 and 1600

Bell Restrainer (4-Inch to 12- Inch)
Series RS-3800 Restrainer Sleeve Included

JCM 620 and 621 Sur-Grip Bell Joint

1350, 1360, 1390 Bell Restrainer

900 Adapter Flange 1300 Fitting Restrainer

1500 Series

Sigma One LOK SLC and PV LOK Series

PVP and PVPF

Star Pipe Products PVC Stargrip Series 4000 and

4000P, PVC Harness Series 1000, 1100 & 1200, Adapter Flange Series 200, 400, & 4200

Tyler / Union Tuf Grip TLP Series for PVC Pipe Use

SIP EZ Grip
Ransom International Rieberlock

Tapping Sleeves – Smaller than 24-Inch:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

JCM Model 432 Mueller H-304 SS Romac SST

Size on Size Tapping Sleeves:

Manufacturer Part Number Comments

Mueller H-615, 616, 619 American Flow Control Series 2800

Tapping Sleeves (Mechanical Joint):

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

JCM Series 414 Romac SST-MJ

Pipe Repair / Transition Couplings:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Hymax 3", 14" or Larger AC-PVC/DI

Romac (Continued) Alpha 4" through 12" PVC/DI/HDPE Romac Macro 4" through 12" AC-PVC/DI

Anti-Seize Lubricants:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Loctite Never Seize

Bostik

<u>Line Stop Fittings (Stainless Steel Body, Flange and Hardware, check insertion plug type with line stopping service):</u>

Manufacturer Part Number Comments

JCM 440 4" – 8" stainless steel flange DIP

completion plug, carbon steel blind flange (epoxy coated), 10" – 20" all stainless-steel body and hardware, stainless or carbon steel flange, DIP completion plug, carbon steel blind flange (epoxy coated), 24" and larger all stainless-steel body and hardware, stainless or carbon steel flange, DIP completion plug, carbon steel blind

flange (epoxy coated)

Hydra-Stop HSF 250
Total Piping Solutions Triple Tap

Pipe Repair Clamps:

Manufacturer Part Number Comments

JCM

Smith Blair

Total Piping Solutions Quick Cam

SECTION 4: WETWELLS, MANHOLES, AND ACCESSORIES

Concrete Joint Seal:

Manufacturer Part Number Comments

K.T. Snyder Co. Rub-R-Neck

Plastic Joint Sealer:

Manufacturer Part Number Comments

K.T. Snyder Co. Ram Neck

Atlantic Concrete Product

Joint Wrap:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

A-Lok Butyl-Lok

Calcium Aluminate Coatings:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Kerneos Aluminates SewperCoat
Strong Strong Seal HP

Madewell Products Corporation Mainstay® ML-CA™ Atlantic Pipe Services

Polyurethane Coatings:

Manufacturer Part Number Comments

SprayRoq SprayWall

Manhole Boot:

Manufacturer Part Number Comments

Trelleborg Kor-n-Seal Link Seal S-316

Polymer Concrete Manholes:

Manufacturer Part Number Comments

USCP

ARMOROCK

Manhole Frame & Cover:

ManufacturerPart NumberCommentsUS FoundryUSF 170-EORS GasketedGMI CorporateModel 2600 F/CGasketed

CAP Composite

Cleanout Handhole ("S" or "Sewer" Cast in Lid):

Manufacturer Part Number Comments

US Foundry USF 7621

SECTION 5: METALWORK

Hatches (Gutter Type, Pad Lockable, Structural Aluminum, Diamond Pattern Surface):

ManufacturerPart NumberCommentsBilcoH-20 LoadingHalliday Products, Inc.H-20 LoadingBabcock-DavisH-20 Loading

USF Fabrication

Hatch Nets:

Manufacturer Part Number Comments

Safe Approach Hatch Net 121

Anti-Seize Lubricants:

Manufacturer Part Number Comments

Anti-Seize Technology Pure White
Dixon Ticonderoga AS-470
Loctite Never-Seize

Glass Capsule Polyester Resin Adhesive Anchors:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Hilti HVA (Continued) Cobra Anchors

Expanding-Type Anchors:

Manufacturer Part Number Comments

Trubolt Anchors ITW Ramset/Redhead

McCullock Industries Kwick-Bolt

Impact Anchors:

Manufacturer Part Number Comments

Hilti, Inc. Metal Hit Anchors Rawplug Company Rawl Zamac Nailin

Coatings:

Manufacturer Part Number Comments

Sherwin-Williams Zinc-Clad XL Alvin Products Galvax ZRC Worldwide Galvite

SECTION 6: FINISHES

Paints:

Manufacturer Part Number Comments

Tnemec Carboline Ameron

International Coating, Inc.

Epoxy Polyamide Fillers:

Manufacturer Part Number Comments

Tnemec 54-660

Topcoat Epoxy Block Filler

Ameron Nu-Klad 105

Keeler & Long

Kolor No. 3400

Epoxy Polyamide:

Manufacturer Part Number Comments

Tnemec 66-Color H.B. Epoxoline

Carboline 890

Ameron Amercoat

Keeler & Long Kolor-Poxy Primer No. 3200

Bond Coat:

Manufacturer Part Number Comments

Kop-Coat Bitumastic No. 300-M

Keeler & Long CT 400

Coal Tar Epoxy:

Manufacturer Part Number Comments

Kop-Coat Bitumastic No. 300-M

Keeler & Long CT 400

Conditioner:

Manufacturer Part Number Comments

Kop-Coat Bitumastic 2CB

Keeler & Long CT 300

Acrylic Coating:

Manufacturer Part Number Comments

Tnemec Series 130-6602 Envirofill

Acrylic Coating Continued:

Carboline Flexxide Keeler & Long 6440

Acrylic Emulsion:

Manufacturer Part Number Comments

Tnemec Series 180 WB Tneme-crete

Carboline D3359

Keeler & Long Aqua-Kolor Enamel W-2 Series

Ferrous Metal Epoxy Polyamide Primer:

Manufacturer Part Number Comments

Tnemec (Continued) 66-1211 Epoxy Primer

Carboline 893 Primer
Ameron Amercoat 71

Keeler & Long Kolor-Poxy Primer No. 3200

Ferrous Metal Epoxy Polyamide:

Manufacturer Part Number <u>Comments</u>

Tnemec 66-Color H.B. Epoxoline

Kop-Coat Hi-Gard Epoxy Carboline 890 Epoxy

Keeler & Long Kolor-Poxy Primer

Aliphatic Polyurethane:

Manufacturer Part Number Comments

Tnemec 72-Color Endura

Carboline 134
Ameron Amercoat

Keeler & Long Acythane Enamel

Aliphatic Polyurethane (When Using Roller):

Manufacturer Part Number Comments

Tnemec 70

Carboline 134 (for roller) Ameron Amershield

Keeler & Long Acrythane Enamel Y-1 Series

Epoxy Polyamide:

Manufacturer **Part Number** Comments

Tnemec 140-1211 Porta-Pox Plus

Kop-Coat 340 Gold Primer Carboline 187 Primer Ameron Amercoat 71

Keeler & Long Kolor-Poxy Primer No. 3200

Epoxy Amine-Cure:

Manufacturer (Continued) Part Number Comments

Tnemec 04

Carboline 187 Finish Use 187 primer when not using

shop primer

Galvanized Steel Coating Wash Primer and/or Epoxy Polyamide:

Manufacturer **Part Number** Comments

Tnemec (Continued) 66-Color H.B. Epoxoline Carboline Rustbnd Primer/Sealer

Ameron Amchem Galvaprep on Galvanized Steel

> Amchem Aiodine 1200 plus on Aluminum

Ameron Amerlock 400

Keeler & Long Vinyl Brutyal Wash Primer No. 7840

Kolor-Poxy Primer No. 3200

Aliphatic Polyurethane:

Manufacturer **Part Number** Comments Gloss

72 Color Endura Shield 11 Tnemec

Kop-Coat

Carboline Carbothane 134 H.S. Ameron Amercoat 450 GL

Acrythane Enamel Y-1 Series Keeler & Long

Aliphatic Polyurethane Gloss (When Using Roller):

Manufacturer **Part Number** Comments

70 Color Endura Shield Tnemec (Continued)

Kop-Coat Carboline

Aliphatic Polyurethane Gloss (When Using Roller) (Continued):

Manufacturer **Part Number** Comments

Ameron **Amershield**

Keeler & Long Acrythane Enamel Y-1 Series **Alternate Coating Systems:**

Manufacturer Part Number Comments

Carboline Galvonox Type 1

Keeler & Long No. 6820

Zinc Chromate Primer:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Carboline 1037WP

Keeler & Long Vinyl-Brutyral Wash Primer No. 7840

Aluminum Pigmented Epoxy Paint:

Manufacturer Part Number Comments

Carboline Carbomastic 90

Keeler & Long Kolormastic No. 1000

Coal Tar Epoxy (High Build):

Manufacturer Part Number Comments

Tnemec 46H-413

Kop-coat Bitumastic No. 300-M Ameron Amercoat 78HB

Keeler & Long CT 400

Quality Control:

Manufacturer Part Number Comments

Tinker & Rasor

K-D Bird Dog Holiday Detector

SECTION 7: EQUIPMENT

Submersible Pumps (Less than 30 HP):

Manufacturer Part Number Comments

Hydromatic

Flygt (Continued)

Myers

Barnes Pumps Goulds Pumps

Submersible Pumps (30 HP and Greater):

Manufacturer Part Number Comments

Fairbanks

Submersible Pumps (30 HP and Greater) Continued:

Flygt Pumps

Peristaltic Metering Pumps:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Flowrox FXMS

Diaphragm Metering Pumps:

Manufacturer Part Number Comments

Grundfos

Stop Gates and Slide Gates:

<u>Manufacturer</u> <u>Part Number</u> <u>Comments</u>

Alpha Laval, Inc. CoPlastic Gate

Tools:

Manufacturer Part Number Comments

Snap On Crescent Stanley

Lift Station Agitators:

Manufacturer

Kasco HYDRAFORCE