



**MISSION SPRINGS WATER DISTRICT
APPROVED MATERIALS LIST
(Capital and Developer Projects)**

**MISSION SPRINGS WATER DISTRICT
66575 2ND STREET
DESERT HOT SPRINGS, CA 92240
WWW.MSWD.ORG**

**UPDATED
FEBRUARY, 2024**



***APPROVED MATERIAL LIST (AML) FOR CONSTRUCTION OF
DISTRICT WATER AND SEWER FACILITIES***

*****DIRECTIONS FOR COMPLETING THE AML*****

1. Complete **ALL** pages of this document. Note “N/A” if an item or sheet does not pertain to the project.
2. Provide separate shop drawings/ cut sheets for **ALL** items not listed on the AML.
3. Submit the completed AML by email to engineering@mswd.org.

Project Name:	
MSWD Job #:	
Submittal #:	
Supplier Name:	
Contractor:	
Contractor Contact Person:	
Phone:	
Contractor email:	

FOR MSWD USE ONLY

<u>MISSION SPRINGS WATER DISTRICT</u>	
REVIEWED BY:	_____
APPROVED BY:	_____
DATE:	_____
<u>COMMENTS</u>	

BE ADVISED THAT ALL MATERIALS ARE APPROVED ON AN INDIVIDUAL PROJECT BASIS. THIS LIST IS SUBJECT TO CHANGE WITHOUT NOTICE. SUPPLIERS FURNISHING MATERIALS FOR CONSTRUCTION OF MISSION SPRINGS WATER DISTRICT FACILITIES SHALL SUBMIT A MANUFACTURER'S CERTIFICATION THAT STATES, "MATERIAL MEETS ALL APPLICABLE ANSI, ASTM, AND SAE STANDARDS AND TESTING REQUIREMENTS", UPON REQUEST. MATERIAL DESIGNATED BY ONLY ONE SPECIFIC BRAND OR TRADE NAME IS APPROVED SOLELY TO MATCH OTHER PRODUCTS ALREADY IN USE FOR A PARTICULAR IMPROVEMENT, EITHER COMPLETED OR IN THE COURSE OF COMPLETION, OR IN ORDER TO MATCH ITEMS THAT ARE AVAILABLE ONLY FROM A SINGLE SOURCE. ALL MATERIALS SHALL BE DOMESTICALLY SOURCED UNLESS OTHERWISE APPROVED.

DESCRIPTION

MANUF./SUPPLIER**MODEL NUMBER**

SECTION A: PIPE

A-01: 10 Ga. CML/CMC

- | | | |
|------------------|---|-------------------------|
| 1. Bell & Spigot | Ameron International/Ferguson
Kelly Pipe Co.
Northwest Pipe Co. | _____

_____ |
|------------------|---|-------------------------|

A-02: Standard CML/CMC

- | | | |
|------------------|-------------------------------|-------|
| 1. Bell & Spigot | Ameron International/Ferguson | _____ |
| | Kelly Pipe Co. | _____ |
| | Northwest Pipe Co. | _____ |
| | Southland Pipe Corp. | _____ |

A-03: Ductile Iron

Ductile Iron Pipe waterlines shall be pressure rated to minimum Class 350 w/ Tyton Joint® & Spigot. Pipe shall come with an asphaltic outside coating in accordance with ANSI/AWWA C151/A21.51 (current revision) and standard thickness cement-mortar lining and inside coating in accordance with ANSI/AWWA C104/A21.1 (current revision) which includes all sizes up to 48" unless otherwise specified.

- | | | |
|---|--------------------------------------|--|
| 1. Class 350, with push-on rubber gasket Tyton interchangeability | Pacific States / McWane
U.S. Pipe | |
|---|--------------------------------------|--|

A-04: Copper Water Tube

Tubing manufacturer outside of the United States must be IAPMO certified.

- | | | | |
|----|---|--|-------|
| 1. | 1" Type K Soft, per ASTM-B 88 Std. 60ft. or 100ft. rolls | Cerro Flow Products
Mueller Streamline Co.
Cambridge-Lee | _____ |
| 2. | 2" Type K Soft, per ASTM-B88 20 ft. lengths | Cerro Flow Products
Mueller Streamline Co.
Cambridge-Lee | _____ |
| 3. | 3/8" – 3/4" Type K Soft, per ASTM-B88, for sample station | Cerro Flow Products
Mueller Streamline Co.
Cambridge-Lee | _____ |

<u>DESCRIPTION</u>	<u>MANUF./SUPPLIER</u>	<u>MODEL NUMBER</u>
SECTION A: PIPE (Continued)		
A-05: Brass Pipe		
1. 3/4" – 2" Red Hard Brass per ASTM-B43 Std. Wt.	Bridgeport Merit Brass Mueller Company	<hr/> <hr/> <hr/> <hr/>
A-06: Standard Galvanized		
1. 1" Schedule 40 per ASTM-A53F	Frontier Stockton Pipe Grinnell	<hr/> <hr/> <hr/>
2. 2" Schedule 40 per ASTM- A53F	Frontier Stockton Pipe Grinnell	<hr/> <hr/> <hr/> <hr/>
A-07: Standard Wt. Black		
1. Pipe Schedule 40 per ASTM- A53A	Frontier Kelly Pipe	<hr/> <hr/>

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION B: VALVES****B-01: Gate**

Gate Valves sizes 4"-12" shall be ductile iron body and bonnet with 316 stainless steel bolting only and resilient wedge fully encapsulated in molded rubber. Valve body and bonnet shall be coated with fusion bonded epoxy both interior and exterior conforming to ANSI/AWWA C 550 Standard and certified to ANSI/NSF 61, with a 2" AWWA operating nut opening in a counter-clockwise direction conforming to AWWA Standard C509 ductile iron only and C515. Valves shall be furnished with Flange x Flange end configuration only, unless otherwise specified.

1. 2" Threaded End, Resilient Seat Epoxy Lined and Coated Ductile Iron Body	Clow Valve Co.	2638 DI
	Clow Valve Co.	2639 DI ONLY
	Mueller Company	A2362 DI
	Kennedy Valve	DI 7000 Series
2. 4" to 12" Flanged, Resilient Seat, Epoxy Lined and Coated Ductile Iron Body	M & H Valve	
	Clow Valve Co.	2639 DI ONLY
	Mueller Company	A2362 DI
	Kennedy Valve	DI 7000 SERIES
	M & H Valve	DI 7000 SERIES

B-02: Butterfly Valves

Valves larger than 12" shall be butterfly valves, unless plans specify otherwise. Butterfly valves shall be ductile iron and furnished with Flange x Flange end configurations only. Valves shall have a 2" AWWA operating nut for buried service. All butterfly valves shall be epoxy lined/coated inside and outside, with a minimum 8 mils in accordance to AWWA C550 Standard, with rubber seat on the body (Rubber on the disc not allowed) and traveling nut design actuator, conforming with Class 150B AWWA C504 Standard (latest revision), unless plans specify otherwise. For above ground applications provide valve with hand wheel and position indicator.

1. 12" to 42" Flanged, Rubber Body Seat, Epoxy Coated Disc., Epoxy Lined and Coated Body for Buried Service, Ductile	Pratt a Mueller Brand (Groundhog)	
	Mueller Company (Linesal III)	
	Dezurik	

B-03: Air Valves

Air Valves shall be furnished with ductile iron bodies and stainless steel trim. The epoxy lining / coating shall be fusion bonded – typical of all air valves. APCO models for larger applications or for sewer applications will be addressed on a case by case basis and approved by MSWD. Submit with manufacturer's cut-sheet per project specifications.

1. 1" Air Valve	Apco	143C
2. 2" Air Valve	Apco	145C
3. 4" Air Valve Class 150 Flange Only	Apco	149C
4. 6" Air Valve Class 150 Flange only	Apco	

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****B-04: Brass Ball Valves and Gate Valves**

1. 3/4" – 2 1/2" Ball Valve Domestic – 1/4 turn	Nibco Apollo	<u>T585-70</u> <u>77C-104-01</u>
2. 3/4" – 2 1/2" Gate Valve Domestic	Nibco	<u>T113</u>
3. 3/4" full port, tapped ball valve for backflow assemblies (Made for Febco Watts, Hersey, or Zurn Wilkins)		<u>601-QT</u>
4. 1" fill port, tapped ball valve for backflow assemblies (Made for Febco Watts, Hersey, or Zurn Wilkins)		<u>601-QT</u>
5. 1 1/2" full port, tapped ball valves for backflow assemblies (Made for Febco Watts, Hersey, or Zurn Wilkins)		<u>601-QT</u>
6. 2" fill port, tapped ball valves for backflow assemblies (made for Febco Watts, Hersey, or Zurn Wilkins)		<u>601-QT</u>

B-05: Flap Valve

Clow Valve Co.

F3012

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION C: BRONZE SERVICE VALVES****C-01: 1" Corporation Stop**

1. Ball Style – IPT Inlet X CTS Compression	Ford Meter Box Jones a Mueller Brand Mueller Company	FB-1100-4Q-NL J-1935-SG-NL B-25028N
2. Ball Style – MIPT Inlet x MIPT Outlet	Ford Meter Box Jones a Mueller Brand Mueller Company	FB500-4-NL J-1943-NL B-20013N

C-02: 2" Corporation Stop

1. Ball Style – IPT Inlet X CTS Compression	Ford Meter Box Jones a Mueller Brand Mueller Company	FB-1100-7Q-NL J-1935-SG-NL B-25028N
2. Ball Style – MIPT Inlet x MIPT Outlet	Ford Meter Box Jones a Mueller Brand Mueller Company Mueller Company	FB-500-7-NL J-1943-NL B-2969N H-9969-N

C-03: 1" Curb Stop

1. Ball Style – FIPT x FIPT with Lockwing (use T Head for Air/ vac	Ford Meter Box Jones a Mueller Brand Mueller Company	B11-444-W-NL J-1990-W-NL B-20283-N
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C-04: 2" Curb Stop

1. Ball Style – FIPT x FIPT w/ Lockwing (use T Head for Air/ vac	Ford Meter Box Jones a Mueller Brand Mueller Company	B11-777-W-NL J-1900-W-NL B-20283N
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C-05: 1" Angle Meter Stop

1. Ball Style – CTS Compression x Meter Swivel, full port, Lockwing	Ford Meter Box Jones a Mueller Brand Mueller Company	BA43-444-W-Q-NL J-1963-WSG-NL B-24258-1N (no lip)
2. Ball Style – FIPT x Meter Swivel, full port, Lockwing (MSWD use only)	Ford Meter Box Jones a Mueller Brand Mueller Company	BA13-444W-NL J-1966-W-NL B-24265-1N (no lip)

C-06: 2" Angle Meter Stop

1. Ball Style – CTS Compression X Meter Flange, full port Lockwing	Ford Meter Box Jones a Mueller Brand Mueller Company	BFA43-777WQ-NL J-1975-WSG-NL B-24276N
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DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION C: BRONZE SERVICE VALVES** (Continued)

2. Ball Style – FIPT x Meter
Flange, full port, Lockwing
(MSWD use only)

Ford Meter Box
Jones a Mueller Brand
Mueller Company

BFA13-777W-NL

J-1974-W-NL

B-24286N

NOTE: Use 2" angle meter stop for all 1 ½" water services.

SECTION D: FLANGES

All flanges shall be forged or plate steel material; 2" through 12" shall be AWWA Class E Hub or ANSI B16.5 Class 150; Flanges 16" and larger shall be Table 5 AWWA Class E Ring Flanges.

D-01: Welded Flanges

1. Raised Face	Ameri-Forge Corp	
	Daniel Industrial	
	Hackney Flange	
	National Flange	
2. 6 Hole FH Flange	Ameri-Forge Corp	
	Daniel Industrial	
	Hackney Flange	
	National Flange	

D-02: Reducing Flanges

1. Raised Face	Ameri-Forge Corp	
	Daniel Industrial	
	Hackney Flange	
	National Flange	

D-03: Companion Flanges

1. Full Face	Ameri-Forge Corp	
	Daniel Industrial	
	Hackney Flange	
	National Flange	

D-04: Blind Flanges

1. Raised Face	Ameri-Forge Corp	
	Daniel Industrial	
	Hackney Flange	
	National Flange	

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION E: FITTINGS****E-01: Steel, CML/CMC 10 Ga.**

Ameron International/Ferguson
Ca. Steel Industries
Northwest Pipe Co.
Southland Pipe Corp

E-02: Steel, CML/CMC Std.

Ameron International/Ferguson
Ca. Steel Industries
Northwest Pipe Co.
Southland Pipe Corp

Ductile Iron flange fittings (Tees, elbows, crosses, adapters, etc.) shall be ductile iron per ASTM A536 in accordance with ANSI/AWWA C110/A21.10 AND ANSI B16.1 Class 125 Flanges. Flanged fittings sizes 4" thru 48" shall be pressure rated @ 250 psi minimum. All mechanical Joint (MJ) or Tyton® interchangeability (PO, TJ, UT) shall be ductile iron per ASTM A536. Fitting 4" thru 24" shall be pressure rated @ 350 psi minimum and 36" thru 48" size shall be pressure rated @ 250 psi minimum. All fittings shall conform to either ANSI/AWWA Standard C110/A21.10 and/or ANSI/AWWA Standard C153/A21.53 (both current revisions) with cement-lining and seal coating in accordance with ANSI/AWWA C104/A21.4 unless specified otherwise.

E-03: Ductile Iron, CML

1. Flanged C110/A21.10 (Full Body, Long Lay Length)
2. Push-on Rubber Gasket ANSI/AWWA C153/A21.53 (Compact Body) (Tyton)
3. Ductile Iron Fabricated Pipe Spools (C115/A21.51) Cement Lined and BIT Coated

Star Pipe Products
Tyler Union Pipe
U.S. Pipe
Sigma Corp

Star Pipe Products
Tyler Union Pipe
U.S. Pipe
Sigma Corp

Custom Pipe & Fabrication, Inc.
U.S. Pipe Coupling Co.
U.S. Pipe

E-04: Brass (U.S. Only)

Lee Brass
Elkhart
Merit Brass

E-05: Galvanized (USA Made)

Ward Mfg.
Grinnell

E-06: Black Steel (USA Made)

Ward Mfg.
Grinnell

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION F: METERS AND STRAINERS****F-01: Meters****MSWD TO PURCHASE AT
CONTRACTORS EXPENSE**

1. 3", 4", or 6"

Neptune/Ferguson

MACH 10 Ultrasonic
Meter

F-02: Strainers**MSWD TO PURCHASE AT
CONTRACTORS EXPENSE**

1. 3", 4", or 6" – Bronze only

Neptune/Ferguson

MACH 10 Ultrasonic
Meter

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION G: METER BOXES AND VAULTS****G-01: DFW Meter Box with Lid, ¾" & 1" Service**DFW
J & R Concrete Products Inc.DFW1324C412**G-02: DFW Meter Box with Lid, 1 ½" & 2" Service and Blow Off**DFW
J & R Concrete Products Inc.DFWPW6C412
W6B Series Meter Box**G-03: Vault (w/SWF & C Armored, Plain)****G-04: Street Valve Box with Lid**Brooks Products
J & R Concrete Products Inc.
South Bay Foundry4TT MSWD Lid & Box
V4-T MSWD Lid & Box**G-05: Meter Vault, 5'-0" x 5'-0" – 3", 3", or 6" meter per Std. Dwg. W-16 or W-17 with U.S.F. 4' x 5' TPD, Aluminum Diamond Plate, Springs assist Parkway Cover with S.S. hardware and oversized recessed padlock hasp**

J & R Concrete Products Inc.

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION H: FIRE HYDRANTS**

Fire hydrants shall be 6" commercial hydrants only with (2) 2 ½" nozzles and (1) 4" nozzle, 6-hol standard drill, brass caps only (applies to bronze FH) and painted safety yellow per AWWA C503 Standard, unless specified otherwise. All fire hydrant runs from the gate valve to the hydrant bury shall be restrained at all times.

H-01: Residential (1) 2 ½" x (1) 4" Nozzles (MSWD USE ONLY)

1. Bronze	Jones	<u>J-3700</u>
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H-02: Commercial (2) 2 ½" x (1) 4" Nozzles

1. Bronze	Jones	<u>J3765</u>
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2. Ductile (Case by case approval Only)	Jones Clow Valve Co.	<u>J4060 DI</u> <u>860 DI</u>
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H-03: Angle Fire Plug (warf head) (MSWD USE ONLY)

1. Bronze 4" x 2 ½" (brass cap)	Jones	<u>J-344 HP</u>
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SECTION I: HYDRANT BURY

Buries shall be ductile iron, pressure rate @ 250 psi minimum and conform to ANSI/AWWA Standard C153/A21.53 and shall be cement line, conforming to ANSI/AWWA Standard C104/A21.4 unless otherwise specified. Inlet shall be flanged, Push-on (P.O.) or MJ with top outlet flange being 6 or 8 hole.

NOTE: Furnish the proper length bury to accommodate a break-off or break-off check valve spool listed below maintaining compliance with height specifications.

I-01: Hydrant Bury

Sigma Corp.
Star Pipe Products
South Bay Foundry
Clow Valve Co.

SECTION J: HYDRANT BREAK-OFF SPOOL, MSWD USE ONLY

Fire hydrants shall be 6" commercial hydrants only with (2) 2 ½" nozzles and (1) 4" nozzle, 6-hol standard drill, brass caps only (applies to bronze FH) and painted safety yellow per AWWA C503 Standard, unless specified otherwise. All fire hydrant runs from the gate valve to the hydrant bury shall be restrained at all times.

NOTE: Furnish the proper length bury to accommodate a break-off or break-off check valve spool listed below maintaining compliance with height specifications.

J-01: Break-off Spool (MSWD USE ONLY)

Sigma Corp.
Star Pipe Products
South Bay Foundry
Clow Valve. Co

J-02: Break-Off Check Valve Assembly

Clow Valve Co.

LBI 400A

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION K: BACKFLOW ASSEMBLIES****K-01: Reduced Pressure Device**

1. ¾", 1", 1 ½", 2"	Febco Watts	LF825Y
	Febco Watts	LF909
	Zurn Wilkins	975XL2
2. 3", 4", 6", 8"	Febco Watts	LF880V
	Zurn Wilkins	475 DA
3. Valve Setter	Febco Watts	611 FL x FL
	Zurn Wilkins	Model FLS

K-02: Double Check Detector Assembly

1. 3", 4", 6", 8", 10"	Febco Watts	875V
	Zurn Wilkins	450 DA
2. Valve Setter	Febco Watts	611 FL x FL
	Febco Watts	611 MJ x FL
	Zurn Wilkins	Model FLS or MJFS
3. 12" DCDA	AMES	3000SS-OSY-CFM (Prior MSWD approval required)

SECTION L: SERVICE SADDLES

Saddles shall be furnished for all water service, Air/Vac and blow-off connections 2" and smaller (direct taps not allowed). Saddles shall be bronze, double strap and with female iron pipe threads (FIPT) for any existing AC or DI waterline and new DI waterline. All other pipe material applications will be addressed on a case-by-case basis approved by MSWD.

L-01: Double Strap, Bronze IPT

	Ford Meter Box	202-B
	Jones	J-979
	Mueller Company	BR-2-B
	Mueller Company	BR-2-S
SS Straps	Romac Industries, Inc.	202B

L-02: Double Strap, Iron IPT Epoxy Coated (MSWD USE ONLY)

Smith-Blair / Xylem	
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DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION M: MISCELLANEOUS BRASS****M-01: Elbow Coupling**

1. 2" Bronze 90°, CT x FIP

Ford Meter Box

L14-77-NL

2. 2" CT Comp 90° x FIP

Jones
Mueller CompanyJ-2621SG-NL
H-15533N**M-02: Service Couplings**

1. 1" CT x CT

Ford Meter Box
Jones
Mueller CompanyC-44-44-G-NL
J-2609-SG-NL
H-15403N

2. 2" CT x CT

Ford Meter Box
Jones
Mueller CompanyC44-77-NL
J-2609-SG-NL
H-15403N

3. 2" CT x MIP

Ford Meter Box
Jones
Mueller CompanyC84-77-NL

M-03: Meter Bushings – Brass Nipple

1. 1" x 12"

Lee Brass
Edmond Gray

2. 2" x 18"

Lee Brass
Edmond Gray
M-04: Meter Coupling (MSWD ONLY)

1. 5/8"

Ford Meter Box

C31-23-NL

2. 1" x 5/8"

Ford Meter Box

C31-24-NL

3. 1"

Ford Meter Box

C31-44-NL**M-05: Meter Flange**

1. 1 1/2" CI

Romac Industries, Inc.

C-1

2. 2"

Romac Industries, Inc.

C-1**M-06: 2" Brass CTS 90°**Mueller Company
Ford Meter BoxH15533N
L44-77Q-NL**M-07: Brass Bend**

1. 2" Brass CTS x IPT 90° Bend

Mueller Company
Ford Meter BoxH15526N
L14-77Q-NL

<u>DESCRIPTION</u>	<u>MANUF./SUPPLIER</u>	<u>MODEL NUMBER</u>
SECTION M: MISCELLANEOUS BRASS (Continued)		
2. 1" Brass CTS x IPT 90°	Mueller Company	
	Ford Meter Box	L84-44-NL
M-08: Bronze Wye Strainer	Febco Watts	
	Zurn Watts	
M-09: 2" Brass Domestic Plug	Mueller Company	
	Ford Meter Box	

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION N: MISCELLANEOUS****N-01: Adapters**

1. RT x Flange (AC Pipe)	Romac Industries, Inc. Smith-Blair/Xylem	<u>CGFA</u>
2. Push on Rubber Gasket x Flange	Pacific Rubber Tyler Union Pipe (C153, DIP) U.S. Pipe (Tyton Bell Interchangeability) Tyler Union Pipe	<u></u> <u></u> <u></u> <u></u>

N-02: Concrete

Portland Cement Mix Design	<u>3250 psi (submit design)</u>
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N-03: Gaskets, Ring Flange

1. 1/16" Non-asbestos	Garlock Nucor Klinger Thermoseal Tripac Fasteners	<u>3000</u> <u></u> <u>4401</u> <u>5000</u>
2. 1/8" Non-asbestos	Garlock Nucor Klinger Thermoseal Tripac Fasteners	<u>3000</u> <u></u> <u>4401</u> <u>5000</u>
3. 1/8" Rubber SBR per ASTM D-200 (for FH to bury and epoxy coated flanges, ring, and full-faced)	Tripac Fasteners U.S. Pipe	<u>T2000</u> <u>Flange-Tyte</u>
4. Gaskets, Meter		
3/4" to 1" – Solid Rubber	Tripac Fasteners	<u>T2000</u>
1 1/2" to 2" – Cloth Rubber		<u></u> <u></u>

**N-04: Valve Box Lids (Caps
Replacement only or W-05
Air Valve)**

1. 8" CI Circular Drop-In Lid marked "WATER" w/checkered diamond pattern	Star Pipe Products Sigma Corp. south Bay Foundry	<u>GC8</u> <u></u> <u></u>
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**N-05: Valve Boxes (can
replacement only or W-05
Air Valve)**

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION N: MISCELLANEOUS (Continued)**

- | | | |
|---|--|---|
| 1. 8" diameter 20 Ga.
Galvanized valve can
24", 30", and 36" length | R-K Industries | _____ |
| 2. 8" SDR-35 and 8"
C-900 PVC pipe cut to
length in field | Vinyltech Corporation
JM Eagle
Diamond Plastics Corporation
PW Pipe
Apache | _____

_____ |

**N-06: Valve Box Slip-can
Extension Section
(replacement only)**

- | | | |
|---|----------------|----------------|
| 1. 8" diameter 20 Ga.
Galvanized split-top | R-K Industries | _____ |
| 2. Extension – 12" and
18" length | R-K Industries | _____
_____ |

N-07: Valve Stem Extensions

Pipeline Products Fiberglass Tube w/coatings	_____
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N-08: Nuts and Bolts

Fire hydrant (FH) break-away bolts shall conform to ASTM A-307 Grade A Standard, Zinc plated and filled with 100% Silicon from the factory. Nuts shall conform to ASTM A563 and shall conform in dimensions prescribed in ANSE/ASME B18-2.2 and be Zinc plated, unless otherwise specified.

- | | | |
|---|---------------------------|----------------|
| 1. FH Bots Breakaway | Nucor | _____ |
| 5/8" x 2 3/4", and 3" U.S.
only | Tripac Fasteners | _____ |
| 2. FH Hex Nuts | Nucor
Tripac Fasteners | _____
_____ |
| 3. All other bolts (buried
and non-buried) | | |

5/8" to 1 1/2" diameter – U.S. Only – Bolts shall conform to ASTM A-307 Grade A Standard, Zinc plated, 150# kits, or SAE J429, Grade 5, Zinc plated, 150# kits, unless specified otherwise.

- | | | |
|---------|---------------------------|----------------|
| | Nucor
Tripac Fasteners | _____
_____ |
| 4. Nuts | | |

Hex nuts shall conform to ASTM A-563 and shall conform in dimensions prescribed in ANSI/ASME B18.2.2 unless otherwise specified. Hex nuts shall be furnished Zinc plated and conform to the same grade as the bolts.
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DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION N: MISCELLANEOUS (Continued)**

	Nucor Tripac Fasteners	<hr/> <hr/>
N-09: Tracing Wire (500 ft. rolls max)		
1. Coated 14 gauge	N/A	<hr/> N/A
N-10: Pipe Wrap		
	Protecto Wrap Mueller Company	<hr/> #200A <hr/> H15533
N-11: Stainless Steel Bands Band-It		<hr/>
N-12: Pipe Dope		
	J.C. Whitlam Mfg. Select Teflon LA-CO Slic-Tite a/Teflon Hercules (Real Tuff)	<hr/> Unyte TF8 <hr/> 42019 <hr/> 15-620
N-13: Bolt Anti-Seize Material		
	Flo-Pro Hi-Temp Lawson Lubri-Temp Markal/E-Z Break Sanchem, Inc.	<hr/> C5-A <hr/> 19920 <hr/> 8910 <hr/> NO-OX-ID
N-14: Air Valve Cover (canister)		
For 1" thru 2" air valves furnish in Tan Polyethylene Construction	Pipeline Products	<hr/> VCAS-1830
N-15: Air Valve Bug Screen Flow Ezy		
	Ferguson	<hr/>
N-16: MJ Restraints		
	EBBA Iron Sales, Inc. Uni-Flange Star Pipe Products Romac Industries, Inc. Sigma Corp. Tyler Union Pipe U.S. Pipe	<hr/> <hr/> <hr/> <hr/> GripRing <hr/> <hr/> MJ Field-Lok
N-17: Push-on (P.O.) Restraints		
1. 1" thru 24"	U.S. Pipe	<hr/>
2. Tlok		<hr/>

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION N: MISCELLANEOUS (Continued)****N-18: Detectable Tape**

1. With all pipelines –
Green for sewer and
Blue for water

T-Christy
Northtown Company

3" wide

3" wide

**N-19: 4" thru 10" Victaulic Style
Coupling****N-20: Plumbing Insulation****N-21: Blue Retro-Reflective
Pavement Marker**

Traffic Zone Safety Warehouse
EMEDCO
3M

TPM-2B 4" x 4" x 3/4"

RPM8-KIT (24)

Series 290 4" x 4" x
3/4"

SECTION O: TAPPING SLEEVES

Tapping Sleeves shall be used for tie-in unless a “cut-in” requirement is specified and shall be full stainless steel body with stainless steel flange unless specified otherwise. Size on size hot taps not allowed. Factory Certified to 1.5 WPR (or 225 psi).

O-01: Stainless steel full (long)
Body with stainless steel
Flange

Romac Industries, Inc.	SST
Smith-Blair / Xylem	663
JCM Industries	432
Mueller Company	H304

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION P: WATER QUALITY SAMPLING STATION**

**P-01: 3/8" Brass Compression
Adapter Male Connector
(Std.) 3/8" Tube x 3/4"
Pipe Thread**

**P-02: Water Quality Sample
Station Cover**

Pipeline Products

WTS 858

**P-03: 3/4" Full-Port Ball Valve
(Untapped)**

Febco Watts
Zurn Wilkins

P-04: 1" x 3/4" Meter Adapter

Ford Meter Box

#24

P-05: 1" x 1/2" Brass Bushing

**P-06: 1/2" Soft Copper Tubing
Heavy Duty**

See A-04 3

**P-07: 3/4" M.P.T. x 3/4" CTS
Adapter**

SECTION Q: SEWER MAIN AND LATERALS

Sewer material shall be Vitrified Clay Pipe (VCP) for mainline and laterals conforming to ASTM C700, ASTI C425, AND ASTM C301. Pipe shall be bell and spigot and/or Band-seal for 4” and 6” laterals. MAINLINE SEWER 8” and larger shall be gasketed bell and spigot. MSWD does not allow mitered joints and fittings.

Q-01: V.C.P. Pipe and Fittings	Mission Clay Pipe	
	Gladding McBean	
Q-02: SDR35 PVC Sewer Pipe & Fittings (MSWD or Sewer Cleanout use only)	Vinyltech Corporation	
	JM Pipe	
	Diamond	
	PW Pipe	
	Apache	
Q-03: Ductile Iron Pipe w/ Protecto 401 Epoxy Lining	Pacific States	
	U.S. Pipe	

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION R: MANHOLE FRAME AND COVER**

Submit manufacturer's cut sheets. Covers shall be traffic rated, marked with MSWD SEWER and have a closed/blind pick hole pocket per standard drawing 5-03.

R-01: 24" Sewer Manhole

Alhambra Foundry
National Casting Corp
South Bay Foundry

A1254 (MSWD Use)
NC-257
SBF1254 MSWD

R-02: 24" Bolt-down Sewer Manhole

Alhambra Foundry
South Bay Foundry

A1254-B
SBF1254B MSWD

R-03: 36" Sewer Manhole

Alhambra Foundry
National Castings Corp
South Bay Foundry

A1251 (MSWD Use)
NC-250
SBF1241

R-04: 36" Bolt-down Sewer Manhole

Alhambra Foundry
South Bay Foundry

R-05: Sewer Cleanout Box & Cover

Alhambra Foundry
South Bay Foundry

A1241
SBF1241

SECTION S: PRECAST SEWER MANHOLE

Submit manufacturers cut sheets and specifications for all precast manhole sections. All concrete shall be 3000 psi minimum. Un-reinforced sections to be 6" thick.

S-01: 48" Dia. Shaft Sections	
S-02: 60" Dia. Shaft Sections	
S-03: 48" x 24" Eccentric Cone Section	
S-04: 60" x 36" Eccentric Cone Section	
S-05: 24" Dia. Grade Rings	
S-06: 36" Dia. Grade Rings	
S-07: 48" x 36" Eccentric Flat Manhole Top Section	

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION T: MISCELLANEOUS SEWER FINTTINGS AND APPURTENANCES****T-01: Band Seal Couplings w/
Stainless Steel Clamps**

**T-02: Band Seal Cap w/
Stainless Steel Clamp**

**T-03: 3M Mid-Range Locator
Disk**

T-04: 4" or 6" Tap-N-Tee

Joints Connect

**T-05: 4" or 6" V.C.P. Epoxy Wye
Fittings**

Mission Clay Products

T-06: Wyn-Stik Epoxy Adhesive

Mission Clay Products

ES-4**T-07: Inside Drop Bowl
Assembly**

Reliner/Duran

Type "B" size per main

DESCRIPTION**MANUF./SUPPLIER****MODEL NUMBER****SECTION U: MSWD PAINT SPECIFICATION****U-01: Fire Hydrant and Water Valve Lid and Box**

Sherwin Williams Pro-Industrial DTM Acrylic Gloss Custom Safety Yellow

SHERWIN-WILLIAMS 708011 10/04/22
760-328-7671 Order# 0161709
INT/EXT ARCHITECTURAL
PRO INDUSTRIAL DTM ACRYLIC
GLOSS FM 8000XL
CUSTOM SAFETY YELLOW
CUSTOM MANUAL MATCH

CCE#COLORANT OZ 32 64 128
W1-White - 44 1 1
R4-New Red - 3 - -
Y3-Deep Gold - - 1 1

ONE GALLON B66Y01057 CUSTOM YELLOW 650995251

U-02: DCDA and RP Backflow Device

Sherwin-Williams Pro-Industrial High Performance Acrylic Gloss Custom Desert Sand-Mission Springs

SHERWIN-WILLIAMS 8511 01/06/17
760-360-0503 Order# 0131831
INT/EXT IND MAINT
PRO IND HIGH PERFORMANCE ACRYLIC
GLOSS IFC 8012NP
DESERT SAND-MISSION SPRINGS
CUSTOM MANUAL MATCH

CCE#COLORANT OZ 32 64 128
B1-Black - 12 - -
Y3-Deep Gold 2 4 - -
R2-Maroon - 5 1 -

ONE GALLON B66400611 EXTRA WHITE 650023468
D.H.S.

U-03: Red Valve and DCDA Handles

Rust-Oleum Acrylic High Performance 3800 Safety Red Gloss

#454H2O Mfr. Model #
314410

Sherwin-Williams Pro-Industrial Multi-Surface Acrylic Real Red Gloss

B66T1504 SW6868

U-04: Manhole Frame and Cover

Rust-Oleum Acrylic Enamel High Performance 3800 Gloss Black

#454H19 Mfr. Model #
314387

Sherwin-Williams Pro-Industrial Multi-Surface Acrylic Black Magic Gloss

SW6991