

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 <u>ALL</u> 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 <u>ALL</u> 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

MISSION SPRINGS WATER DISTRICT	
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.

DESCRI	IPTI	<u>ON</u>	MANUF./SUPPLIER	MODEL NUMBER
SECTI	ON A	A: PIPE		
A-01:	10	Ga. CML/CMC		
	1.	Bell & Spigot	Ameron International/Ferguson Kelly Pipe Co. Northwest Pipe Co.	
A-02:	Sta	andard CML/CMC		
	1.	Bell & Spigot	Ameron International/Ferguson Kelly Pipe Co. Northwest Pipe Co. Southland Pipe Corp.	
A-03:	Du	ctile Iron		
shall c	ome n) ar	n Pipe waterlines shall be pressure with an asphaltic outside coating and standard thickness cement-mon 1 (current revision) which includes	ng in accordance with ANSI/AW rtar lining and inside coating in acc	WA C151/A21.51 (current ordance with ANSI/AWWA
	1.	Class 350, with push-on rubber gasket Tyton interchangeability	Pacific States / McWane U.S. Pipe	
A-04:	Co	opper Water Tube		
Tubing	ı maı	nufacturer outside of the United St	tates 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	

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

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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	Clow Valve Co.	2638 DI
	Epoxy Lined and Coated Ductile	Clow Valve Co.	2639 DI ONLY
	Iron Body	Mueller Company	A2362 DI
		Kennedy Valve	DI 7000 Series
		M & H Valve	
2.	4" to 12" Flanged, Resilient	Clow Valve Co.	2639 DI ONLY
	Seat, Epoxy Lined and Coated	Mueller Company	A2362 DI
	Ductile Iron Body	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	Pratt a Mueller Brand	
	Body Seat, Epoxy Coated	(Groundhog)	
	Disc., Epoxy Lined and Coated	Mueller Company (Lineseal III)	
	Body for Buried Service, Ductile	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	Арсо	_149C
4.	6" Air Valve Class 150 Flange only	Арсо	

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DESCRIPTION	DES	CRIP	TION
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MANUF./SUPPLIER

MODEL NUMBER

B-04: Brass Ball Valves and Gate Valves

	1.	3/4" – 2 1/2" Ball Valve	Nibco	T585-70
		Domestic – ¼ turn	Apollo	77C-104-01
	2.	3/4" – 2 1/2" Gate Valve Domestic	Nibco	T113
	3.	3/4" full port, tapped ball valve for backflow assemblies (Made for Febco Watts, Hersey, or Zurn Wilkins)		601-QT
	4.	1" fill port, tapped ball valve for backflow assemblies (Made for Febco Watts, Hersey, or Zurn Wilkins)		601-QT
	5.	1 ½" full port, tapped ball valves for backflow assemblies (Made for Febco Watts, Hersey, or Zurn Wilkins)		601-QT
	6.	2" fill port, tapped ball valves for backflow assemblies (made for Febco Watts, Hersey, or Zurn Wilkins)		601-QT
B-05:	Fla	ap Valve	Clow Valve Co.	F3012

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DESCRIPTION

MANUF./SUPPLIER

MODEL NUMBER

SECTION C: BRONZE SERVICE VALVES

C-01·	1"	Corporation S	Ston
O-01.		Corporation	JIUD

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

2. Ball Style – MIPT Inlet x MIPT Ford Meter Box
Outlet Jones a Mueller Brand

 Ford Meter Box
 FB500-4-NL

 Jones a Mueller Brand
 J-1943-NL

 Mueller Company
 B-20013N

C-02: 2" Corporation Stop

1. Ball Style – IPT Inlet X CTS Ford Meter Box FB-1100-7Q-NL
Compression Jones a Mueller Brand J-1935-SG-NL
Mueller Company B-25028N

2. Ball Style – MIPT Inlet x MIPT Ford Meter Box FB-500-7-NL
Outlet Jones a Mueller Brand J-1943-NL
Mueller Company B-2969N
Mueller Company H-9969-N

C-03: 1" Curb Stop

1. Ball Style – FIPT x FIPT with Lockwing (use T Head for Air/ Vac Mueller Company

Ford Meter Box B11-444-W-NL
J-1990-W-NL
B-20283-N

C-04: 2" Curb Stop

1. Ball Style – FIPT x FIPT w/ Ford Meter Box B11-777-W-NL Lockwing (use T Head for Air/ Vac Mueller Company B-20283N

C-05: 1" Angle Meter Stop

Ball Style – CTS Compression x Meter Swivel, full port, Lockwing
 Ball Style – CTS Compression x Meter Box
 BA43-444-W-Q-NL
 J-1963-WSG-NL
 B-24258-1N (no lip)

2. Ball Style – FIPT x Meter
Ford Meter Box
BA13-444W-NL

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

C-06: 2" Angle Meter Stop

1. Ball Style – CTS Compression Ford Meter Box BFA43-777WQ-NL X Meter Flange, full port Jones a Mueller Brand Lockwing Mueller Company B-24276N

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SECTION C: BRONZE SERVICE VALVES (Continued)

 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 1/2" water services.

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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

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DESCR	PTI	ON	MANUF./SUPPLIER	MODEL <u>NUMBER</u>
SECTI	ON I	E: FITTINGS		
E-01:	Ste	eel, CML/CMC 10 Ga.	Ameron International/Ferguson Ca. Steel Industries Northwest Pipe Co. Southland Pipe Corp	
E-02:	Ste	eel, CML/CMC Std.	Ameron International/Ferguson Ca. Steel Industries Northwest Pipe Co. Southland Pipe Corp	
accorda thru 48' (PO, To minimu either A revision	ance ' sha J, UT m ai ANS ns) v	with ANSI/AWWA C110/A21.10 And be pressure rated @ 250 psi mir (and the pressure rated) with the with the pressure 48" size shall be pressed with the pressed of the presse	sses, adapters, etc.) shall be duct AND ANSI B16.1 Class 125 Flange nimum. All mechanical Joint (MJ) o A536. Fitting 4" thru 24" shall be ssure rated @ 250 psi minimum. A and/or ANSI/AWWA Standard C ting in accordance with ANSI/A	es. Flanged fittings sizes 4" r Tyton® interchangeability pressure rated @ 350 psi All fittings shall conform to c153/A21.53 (both current
E-03:	Du	ctile Iron, CML		
	1.	Flanged C110/A21.10 (Full Body, Long Lay Length)	Star Pipe Products Tyler Union Pipe U.S. Pipe Sigma Corp	
	2.	Push-on Rubber Gasket ANSI/AWWA C153/A21.53 (Compact Body) (Tyton)	Star Pipe Products Tyler Union Pipe U.S. Pipe Sigma Corp	
	3.	Ductile Iron Fabricated Pipe Spools (C115/A21.51) Cement Lined and BIT Coated	Custom Pipe & Fabrication, Inc. U.S. Pipe Coupling Co. U.S. Pipe	
E-04:	Bra	ass (U.S. Only)	Lee Brass Elkhart Merit Brass	
E-05:	Ga	Ilvanized (USA Made)	Ward Mfg. Grinnell	
E-06:	Bla	ack Steel (USA Made)	Ward Mfg. Grinnell	

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<u>DESCRIPTION</u> <u>MANUF./SUPPLIER</u> MODEL <u>NUMBER</u>

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

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DESCRI	PTION	MANUF./SUPPLIER	MODEL NUMBER
SECTI	ON G: METER BOXES AND VAULT	rs ·	
G-01:	DFW Meter Box with Lid, 3/4" & 1" Service		
		DFW J & R Concrete Products Inc.	DFW1324C412
G-02:	DFW Meter Box with Lid, 1 ½" & 2" Service and Blow Off		
	2 convice and blow on	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	Burda Burdan	ATT MONED I : LO D
		Brooks Products J & R Concrete Products Inc. South Bay Foundry	4TT MSWD Lid & Box V4-T MSWD Lid & Box
G-05:	Meter Vault, 5'-0" x5'-0" - 3", 3", or 6" meter per Std. Dwg. W-16 o W-17with 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.	

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MANUF./SUPPLIER

MODEL NUMBER

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	J-3700
H-02:	Commercial (2) 2 ½" x (1) 4" Nozzles		
	1. Bronze	Jones	J3765
	 Ductile (Case by case approval Only) 	Jones Clow Valve Co.	J4060 DI 860 DI
H-03:	Angle Fire Plug (warf head) (MSWD USE ONLY)		
	1. Bronze 4" x 2 ½" (brass cap)	Jones	J-344 HP

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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.	

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<u>DESCRIPTION</u> <u>MANUF./SUPPLIER</u> MODEL <u>NUMBER</u>

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

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MANUF./SUPPLIER

MODEL NUMBER

SECTION K: BACKFLOW ASSEMBLIES

K-01: Reduced Pressure Device

1. ³ / ₄ ", 1", 1 ½", 2"	Febco Watts	LF825Y
	Febco Watts	LF909
	Zurn Wilkins	975XL2

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

			(Prior MSWD
3.	12" DCDA	AMES	3000SS-OSY-CFM

(Prior MSWD approval required)

SECTION L: SERVICE SADDLES

Saddles shall be furnished for <u>all</u> 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 Jones Mueller Company Mueller Company	202-B J-979 BR-2-B BR-2-S
	SS Straps	Romac Industries, Inc.	202B
L-02:	Double Strap, Iron IPT Epoxy Coated (MSWD USE ONLY)		
		Smith-Blair / Xylem	

DESCRIPTION MANUF./SUPPLIER

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 Company	J-2621SG-NL H-15533N
M-02:	Service Couplings		
	1. 1" CT x CT	Ford Meter Box Jones Mueller Company	C-44-44-G-NL J-2609-SG-NL H-15403N
	2. 2" CT x CT	Ford Meter Box Jones Mueller Company	C44-77-NL J-2609-SG-NL H-15403N
	3. 2" CT x MIP	Ford Meter Box Jones Mueller Company	C84-77-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. 1½" CI	Romac Industries, Inc.	<u>C-1</u>
	2. 2"	Romac Industries, Inc.	<u>C-1</u>
M-06:	2" Brass CTS 90°	Mueller Company Ford Meter Box	H15533N L44-77Q-NL
M-07:	Brass Bend		
	1. 2" Brass CTS x IPT 90° Bend	Mueller Company Ford Meter Box	H15526N L14-77Q-NL

MODEL NUMBER

DESCRIPTION MANUF./SUPPLIER MODEL NUMBER SECTION M: MISCELLANEOUS BRASS (Continued) 2. 1" Brass CTS x IPT 90° Mueller Company Ford Meter Box 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 Romac Industries, Inc. CGFA 1. RT x Flange (AC Pipe) Smith-Blair/Xylem 2. Push on Rubber Gasket Pacific Rubber Tyler Union Pipe (C153, DIP) x Flange U.S. Pipe (Tyton Bell Interchangeability) Tyler Union Pipe N-02: Concrete Portland Cement Mix Design 3250 psi (submit design) N-03: Gaskets, Ring Flange 1. 1/16" Non-asbestos Garlock 3000 Nucor Klinger Thermoseal 4401 **Tripac Fasteners** 5000 2. 1/8" Non-asbestos Garlock 3000 Nucor Klinger Thermoseal 4401 Tripac Fasteners 5000 3. 1/8" Rubber SBR per Tripac Fasteners T2000 U.S. Pipe ASTM D-200 (for FH Flange-Tyte to bury and epoxy coated flanges, ring, and full-faced) 4. Gaskets, Meter 3/"" to 1" - Solid Tripac Fasteners T2000 Rubber 1 1/2" to 2" - Cloth Rubber

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

1.	8" Cl Circular Drop-In	Star Pipe Products	GC8
	Lid marked "WATER"	Sigma Corp.	-
	w/checkered diamond	south Bay Foundry	-
	pattern		-

N-05: Valve Boxes (can replacement only or W-05 Air Valve)

SECTION N: MISCELLANEOUS (Continued) 1. 8" diameter 20 Ga. **R-K Industries** Galvanized valve can 24", 30", and 36" length 2. 8" SDR-35 and 8" Vinyltech Corporation C-900 PVC pipe cut to JM Eagle length in field **Diamond Plastics Corporation** PW Pipe Apache N-06: Valve Box Slip-can **Extension Section** (replacement only) 1. 8" diameter 20 Ga. **R-K Industries** Galvanized split-top 2. Extension – 12" and **R-K Industries** 18" length N-07: Valve Stem Extensions Pipeline Products Fiberglass Tube w/coatings 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. Tripac Fasteners only 2. FH Hex Nuts Nucor Tripac Fasteners 3. All other bolts (buried and non-buried) 5/8" to 1 ½" 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

MANUF./SUPPLIER

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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.

4. Nuts

DESCRIPTION

<u>DESCRIPTION</u> <u>MANUF./SUPPLIER</u> <u>MODEL NUMBER</u>

SECTION N: MISCELLANEOUS (Continued)

N-18:	Detectable Tape		
	 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 Water Quality Sample Station Cover P-02: Pipeline Products WTS 858 P-03: 3/4" Full-Port Ball Valve Febco Watts (Untapped) Zurn Wilkins P-04: 1" x 3/4" Meter Adapter

Ford Meter Box

#24

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

Heavy Duty

See A-04 3

P-07: ¾" M.P.T. x ¾" 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		
	recess for Epony Emmig	Pacific States	
		U.S. Pipe	

<u>DESCRIPTION</u> <u>MANUF./SUPPLIER</u> <u>MODEL NUMBER</u>

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	A1254 (MSWD Use)
		National Casting Corp	NC-257
		South Bay Foundry	SBF1254 MSWD
R-02:	24" Bolt-down Sewer		
	Manhole	Alhambra Foundry	A1254-B
		South Bay Foundry	SBF1254B MSWD
		South Bay I duridity	3DI 1234B W3WB
R-03:	36" Sewer Manhole		
		Alhambra Foundry	A1251 (MSWD Use)
		National Castings Corp	NC-250
		South Bay Foundry	SBF1241
R-04:	36" Bolt-down Sewer Manhole		
		Alhambra Foundry	
		South Bay Foundry	
R-05:	Sewer Cleanout Box &		
		Alhambra Foundry	A1241
		South Bay Foundry	SBF1241
		•	

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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 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

Reliner/Duran

T-07: Inside Drop Bowl Assembly

Type "B" size per main

<u>DESCRIPTION</u> <u>MANUF./SUPPLIER</u>

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 700011 10/04/22
760-320-7671 0rder# 0161709
INT/EXT ARCHITECTURAL PRO INDUSTRIAL DTM ACRYLIC GLOSS FM 6000XL
CUSTOM SAFETY YELLOW
CUSTOM MANUAL MATCH

MODEL NUMBER

CCE*COLORANT 02 32 64 126 W1-White - 44 1 1 R4-New Red - 3 - -Y3-Deep Gold - 1 1

ONE GALLON B66Y81857 V 50 YELLOW

U-02: DCDA and RP Backflow Device

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



U-03: Red Valve and DCDA

Handles

Rust-Oleum Acrylic High

Performance 3800 Safety Red

Gloss

Sherwin-Williams Pro-

Industrial Multi-Surface Acrylic

Real Red Gloss

#454H2O Mfr. Model #

314410

B66T1504 SW6868

U-04: Manhole Frame and Cover

Rust-Oleum Acrylic Enamel

High Performance 3800 Gloss

Black

Sherwin-Williams Pro-

Industrial Multi-Surface Acrylic

Black Magic Gloss

#454H19 Mfr. Model #

314387

SW6991