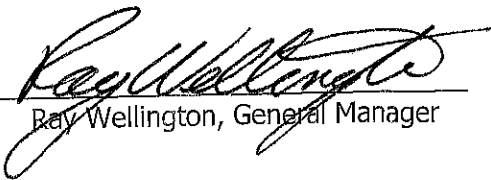


**SAN ANTONIO WATER COMPANY
APPROVED MATERIAL LIST**

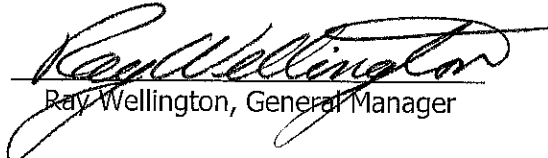
<u>No.</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model No.</u>
1.	<u>PIPE</u>		
1-A	<u>Brass Pipe</u> 1. Red Hard Brass, ASTM	Merit Brass Mueller	N/A N/A
1-B	<u>Ductile Iron Pipe</u> 1. Class 150 to 350, CML / Asphalt Coated, Flanged	Pacific States U.S. Pipe	N/A N/A
1-C	<u>Galvanized Pipe, Std. Wt.</u> 1. Schedule 40, ASTM A53	Union Steel	N/A
1-D	<u>Welded Steel Pipe, CML/CMC</u> 1. Plain End, or Flanged	Ameron Northwest Pipe Kelly Pipe	N/A N/A
2.	<u>VALVES</u>		
2-A	<u>1" Air Valve</u>	APCO Crispin	143C UL10
2-B	<u>2" Air Valve</u>	APCO Crispin	145C UL20
2-C	<u>2" Curb Stop</u> 1. Female Iron Pipe Thread Inlet X Female Iron Pipe Thread Outlet, with padlock wings	Ford Jones Mueller	B11-777W J-182 H-10283 / H-14338
2-D	<u>1" Curb Stop</u> 1. Female Iron Pipe Thread Inlet X Female Iron Pipe Thread Outlet, with padlock wings	Ford Jones Mueller	B11-444W J-182 H-10283 / H-14338
2-E	<u>1 1/2" Curb Stop</u> 1. Female Iron Pipe Thread Inlet X Female Iron Pipe Thread Outlet, with padlock wings	Ford Jones Mueller	B11-666W J-182 H-10283 / H-14338
2-F	<u>Butterfly Valve</u> 1. Flanged, 12" – 42", Rubber Seat in the Body, Epoxy Coated Inside and Outside	Pratt Mueller	Groundhog Linesal
2-G	<u>Gate Valve</u> 1. Flanged, 2" – 10", Resilient Seated, Epoxy Lined and Coated, Ductile Iron Body	Clow Mueller American AVK	FL X FL FL X FL FL X FL
	2. Threaded 1" – 3", Resilient Seated, Epoxy Lined and Coated, Ductile Iron Body	American AVK	O3/3X

Approved: 
Ray Wellington, General Manager

Date: 7-5-2000

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<u>No.</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model No.</u>
2-G	<u>Gate Valve</u> 3. Threaded X Flanged 1-1/2" – 2", Bronze Body	Nibco Stockham	
	4. Threaded 1/2" – 3", Bronze Body	Milwaukee Valve Co. Nibco Stockham	Gate 105 T-113
3.	<u>FIRE HYDRANTS</u>		
3-A	<u>6"X 2 1/2" X 4" Residential</u>	<i>MEULLER</i> Clow Jones	2050 J-3701 or J-3710
3-B	<u>4"X 2 1/2" Residential</u>	Jones	J-344HP
3-C	<u>Break-Off Check Valve</u>	Clow	LB 400
4.	<u>BACKFLOW DEVICES</u>		
4-A	Vacuum Breaker		
4-B	Double Check Detector Assembly	In compliance with the Department of Health Services Requirements. Approved list is available at SAWCo Office.	
4-C	Reduce Pressure Backflow		
5.	<u>FITTINGS</u>		
5-A	<u>Brass</u>	Ford Jones	N/A
5-B	<u>Ductile Iron Pipe, CML / Asphalt Coated</u> 1. Flanged C110/A21.10	Tyler Pipe Union Foundry U.S. Pipe	N/A N/A N/A
	2. Restrained Gasketed Joints C153/A21.10	Tyler Pipe Union Foundry U.S. Pipe	N/A N/A N/A
5-C	<u>Galvanized</u>	Flagg Stockham	N/A N/A
5-D	<u>Welded Steel Pipe, CML/CMC, Std. Wt.</u>	Ameron Kelly Pipe Northwest Pipe	N/A N/A N/A
6.	<u>METER BOXES</u>		
6-A	<u>Concrete Meter Boxes with Concrete Cover and Reading Lid</u>	Brooks	37S Series
6-B	<u>Plastic Meter Box with T-Cover</u> 1. 15" X 21 1/2" 2. 19 1/2" x 32 1/2"	Carson Carson	#1220-12 Box w/ T-Cover #1730-18 Box w/ T-Cover

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<u>No.</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model No.</u>
7.	MISCELLANEOUS		
7-A	<u>Air Valve Screens</u> 1. 1" Male Thread 2. 2" Male Thread	Northtown Northtown	Hytech A.V. Screens Hytech A.V. Screens
7-B	<u>Water Meter Flange</u> Water meter Flange X Female Iron Pipe Thread, Bronze	Jones	J-129
7-C	<u>Flanges</u> 1. Ductile Iron 2. Steel	N/A N/A	AWWA C115 AWWA-Class E or ANSI B16.5, Class 150
7-D	<u>Meters</u> 1. 5/8" x 3/4", Threaded 2. 3/4", Threaded 3. 1", Threaded 4. 1-1/2", Threaded 5. 2", Threaded	Neptune Neptune Neptune Neptune Neptune	T-10 T-10 T-10 T-10 T-10
7-E	<u>Nuts, Bolts</u> 1. Fire Hydrant Bolts to be Breakaway, U.S. Only ASTM A-307 2. Hex Head Bolts 5/8" to 1-1/2" Diameter U.S. Only, ASTM A-307	Pacific Coast Bolt Corporation Pacific Coast Bolt Corporation	N/A N/A
7-F	<u>Transition Coupling</u> 1. 4" - 12" 2. 14" - 30"	Romac Romac	Style 501 Style TC400
7-G	<u>End Cap Coupling</u> 1. 4" - 12" 2. 14" - 30" (with removable cap)	Romac Romac	Style EC501 Style EC400
7-H	<u>Service Saddles</u> Double-Strap, Bronze 1" or 2" IPT Outlet	Ford Romac Smith-Blair	202B 202B 313
7-I	<u>Strainer</u> 2" Strainer, Bronze	Neptune	5312-000
7-J	<u>Straight Meter Couplings</u> 1. 3/4" Bronze by 3" long (for 5/8" X 3/4" and 3/4" Meters) 2. 1" Bronze by 3.5" long (for 1" Meters)	Ford (Style A) Jones Ford (Style A) Jones	C38-23-3 J130 C38-44-3.5 J130

Approved: 
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Date: 7-5-2000