

CITY AND BOROUGH OF WRANGELL, ALASKA

INVITATION TO BID

WRANGELL SEWER OUTFALL REPAIRS

ADDENDUM TO THE PROJECT DOCUMENTS

Addendum No: 2

Current Bid Date:

February 4, 2025 at 2:00 pm
AK Standard Time

Addendum Date: January 28, 2025

Pages This Addendum: Two, Plus Seven Pages of Appendices Product Data Sheets

Previous Addenda: One

To: All Proposers.

The following corrections, changes, additions, deletions, revisions and/or clarifications are hereby made a part of the Documents for the Invitation to Bid for the Wrangell Sewer Outfall Repairs project. In case of conflicts between this Addendum and previously issued documents, this Addendum shall take precedence. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This addendum _____ *does*, **X** *does not* change the bid opening date.

Item 1: SECTION 00800 - SUPPLEMENTARY GENERAL CONDITIONS, SGC 5.2 INSURANCE AMOUNTS. Add subsection H as follows:

H. Maritime Employers Liability (MEL). \$1,000,000 per Accident or Incident.

Item 2: SECTION 01010 - SUMMARY OF WORK, 1.2 Work Covered by Contract Documents, A. 6. Remove and replace this section in its entirety with the following:

Provide to Owner an as-built video of the repaired outfall sewer pipe from Mean Low Low (MLL) water to the end of the outfall pipe diffuser. Include survey grade navigation locations along the pipeline with a maximum frequency of twenty-five feet (25').

Item 3: DRAWING SHEET C3, Notes. Remove and replace Note 3 in its entirety with the following:

If the repaired section of the outfall line contains a distance greater than ten feet (10') between concrete anchors, then reinstall existing salvaged concrete anchors with Owner-provided all-thread fasteners, as needed, to ensure spacing between concrete anchors is no greater than ten feet (10').

Item 4: SECTION 00005 - TABLE OF CONTENTS. Appendices. Remove and replace the Appendices section in its entirety, as follows:

APPENDICES

Appendix A

2024 Underwater drone video footage located on the web at <http://iusserver.ezconnect.to/share/SDP2-RUdG>

Appendix B

JM EAGLE, HDPE IRON PIPE SIZE (I.P.S.) PRESSURE PIPE; Owner-Provided Material Product Data Sheet

Appendix C

ALPHA™ WIDE RANGE RESTRAINT COUPLING; Owner-Provided Material Product Data Sheet

END OF ADDENDUM NO. 2

ALPHA™ WIDE RANGE RESTRAINT COUPLING



MATERIAL SPECIFICATIONS

CASTINGS: All cast components (end rings, center ring and bolt guides) are ductile iron, meeting or exceeding the requirements of ASTM A536, grade 65-45-12.

GRIPPERS: Ductile (nodular) iron, meeting or exceeding ASTM A536, grade 65-45-12. Machine sharpened and heat treated. Xylan 1424 coated for corrosion protection.

GASKET: SBR compounded for water and sewer service in accordance with ASTM D2000. NBR available upon request. NSF/ANSI 61 & 372 Certified.

DRAW-HOOK FASTENERS: 304L stainless steel.

RAMP RUNNERS: Reinforced nylon.

BOLTS & NUTS: 304 stainless steel, 5/8-11 bolts with heavy hex e-coated nuts. Fasteners provided with anti-galling protection.

COATINGS: Center ring Romacoat fusion bonded epoxy, NSF 61 certified. End rings are Romabond polyester.

WORKING PRESSURE: Up to 350 PSI.



STANDARD ALPHA
FITS IPS PVC THROUGH
DUCTILE IRON PIPE OD'S.

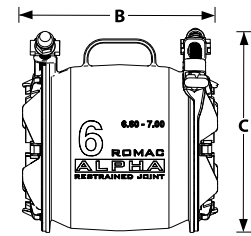
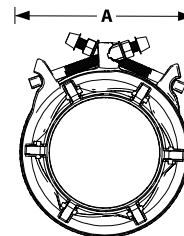


Certified to
NSF/ANSI 61 & 372



ALPHA™

RESTRAINED JOINT



NOM. PIPE SIZE	O.D. RANGE (inches)	CATALOG NUMBER	DIMENSIONS			LIST PRICE	AP-PROX. WEIGHT (lbs)
			A O.D.	B LENGTH	C HEIGHT		
4"	4.50 - 4.90	ALPHA-A - 4.90	8.10	11.80	9.80	\$676.97	40
6"	6.60 - 7.00	ALPHA-A - 7.00	10.40	12.00	12.00	932.40	50
8"	8.60 - 9.10	ALPHA-A - 9.10	13.50	13.20	15.10	1,204.26	75
10"	10.75 - 11.20	ALPHA-A - 11.20	15.60	13.20	17.20	1,528.65	95
12"	12.75 - 13.30	ALPHA-A - 13.30	17.60	13.30	19.20	1,799.72	100

TO ORDER: Determine the O.D. of the pipes to be coupled, and select coupling size which covers the pipe diameters of both pipe ends. Specify Alpha Catalog Number [in table above]. Example: To couple 8" DI and 8" IPS PVC Pipe order **ALPHA-A-9.10**



ALPHA™ XL WIDE RANGE RESTRAINT COUPLING

MATERIAL SPECIFICATIONS

CASTINGS: All cast components (end rings, center ring and bolt guides) are ductile iron, meeting or exceeding the requirements of ASTM A536, grade 65-45-12.

GRIPPERS: Ductile (nodular) iron, meeting or exceeding ASTM A536, grade 65-45-12. Machine sharpened and heat treated. Xylan 1424 coating for corrosion protection.

GASKETS: 4"-12" NBR; 16" SBR. Gaskets compounded for water and sewer service in accordance with ASTM D2000. NSF/ANSI 61 & 372 Certified.

DRAW-HOOK FASTENERS: 304L stainless steel.

RAMP RUNNERS: Reinforced nylon.

BOLTS & NUTS: 304 stainless steel, 5/8-11 bolts with heavy hex e-coated nuts. Fasteners provided with anti-galling protection.

COATINGS: Center ring Romacoat fusion bonded epoxy, NSF 61 certified. End rings are Romabond polyester.

WORKING PRESSURE: Up to 350 PSI.



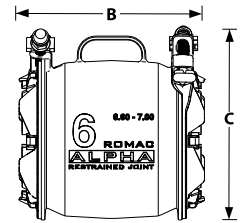
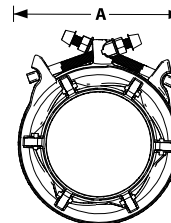
ALPHA XL
FITS DUCTILE IRON THROUGH
OVERSIZE CAST IRON PIPE OD'S.



Certified to
NSF/ANSI 61 & 372



ALPHA XL™ RESTRAINED JOINT



NOM. PIPE SIZE	O.D. RANGE (inches)	CATALOG NUMBER	DIMENSIONS			LIST PRICE	AP-PROX. WEIGHT (lbs)
			A O.D.	B LENGTH	C HEIGHT		
4"	4.80 - 5.10	ALPHA XL - 5.10	8.10	11.80	9.80	\$704.06	40
6"	6.90 - 7.10	ALPHA XL- 7.10	10.40	12.00	12.00	969.70	50
8"	9.05 - 9.40	ALPHA XL - 9.40	13.50	13.20	15.10	1,252.43	75
10"	11.10 - 11.45	ALPHA XL - 11.45	15.60	13.20	17.20	1,589.79	95
12"	13.20 - 13.60	ALPHA XL - 13.60	17.60	13.30	19.20	1,871.71	100
*16"	17.40 - 17.85	ALPHA XL - 17.85	23.60	15.30	25.50	5,543.95	230

* 16" is not compatible with HDPE pipe

TO ORDER: Determine the O.D. of the pipes to be coupled, and select coupling size which covers the pipe diameters of both pipe ends. Example: To couple 8" Oversize Cast Iron Pipe and 8" C900 PVC pipe, order **ALPHA-XL- 9.40**.

ALPHA™ TC

WIDE RANGE TRANSITION RESTRAINED COUPLING



MATERIAL SPECIFICATIONS

CASTINGS: All cast components (end rings, center ring and bolt guides) are ductile iron, meeting or exceeding the requirements of ASTM A536, grade 65-45-12.

GRIPPERS: Ductile (nodular) iron, meeting or exceeding ASTM A536, grade 65-45-12. Machine sharpened and heat treated. Xylan 1424 coating for corrosion protection.

GASKETS: 4"-12" NBR. Gaskets compounded for water and sewer service in accordance with ASTM D2000. NSF/ANSI 61 & 372 Certified.

DRAW-HOOK FASTENERS: 304L stainless steel.

RAMP RUNNERS: Reinforced nylon.

BOLTS & NUTS: 304 stainless steel, 5/8-11 bolts with heavy hex e-coated nuts. Fasteners provided with anti-galling protection. 316 stainless steel available by request.

COATINGS: Center ring Romacoat fusion bonded epoxy, NSF 61 certified. End rings are Romabond polyester.

WORKING PRESSURE: Up to 350 PSI.



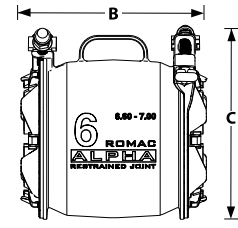
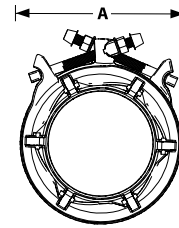
Certified to
NSF/ANSI 61 & 372

ALPHA TC
FITS IPS THROUGH OVERSIZE
CAST IRON PIPE OD'S.



ALPHA TC™

RESTRAINED JOINT



NOM. PIPE SIZE	O.D. RANGE (inches)	CATALOG NUMBER	DIMENSIONS			LIST PRICE	AP- PROX. WEIGHT (lbs)
			A O.D.	B LENGTH	C HEIGHT		
4"	4.80-5.10 x 4.50-4.90	ALPHA TC - 5.10 x 4.90	8.10	11.80	9.80	\$697.30	40
6"	6.90-7.10 x 6.60-7.00	ALPHA TC- 7.10 x 7.00	10.40	12.00	12.00	960.37	50
8"	9.05-9.40 x 8.60-9.10	ALPHA TC - 9.40 x 9.10	13.50	13.20	15.10	1,240.39	75
10"	11.10-11.45 x 10.75-11.20	ALPHA TC - 11.45 x 11.20	15.60	13.20	17.20	1,574.51	95
12"	13.20-13.60 x 12.75-13.30	ALPHA TC - 13.60 x 13.30	17.60	13.30	19.20	1,853.71	100

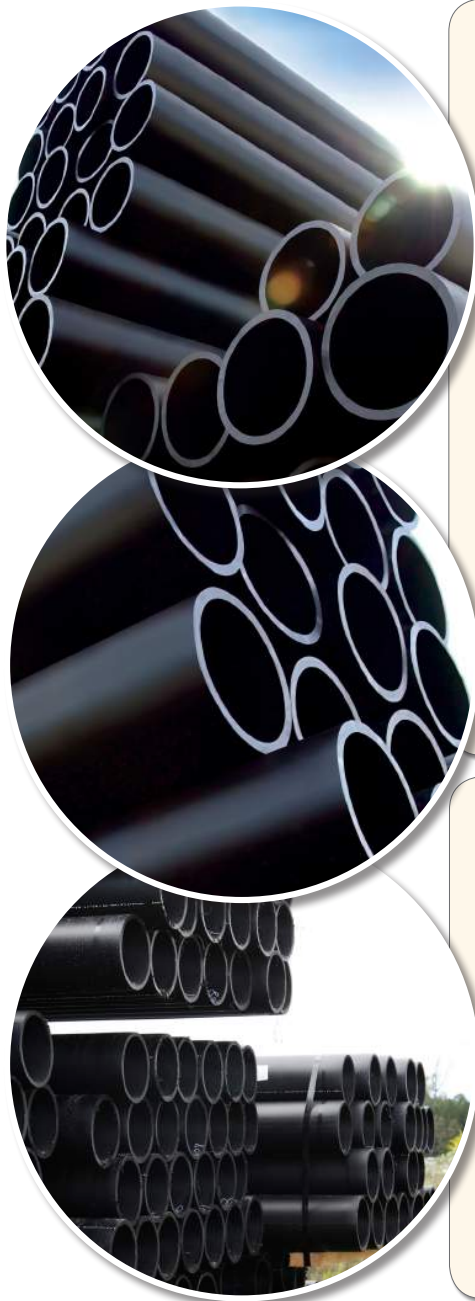
TO ORDER: Determine the O.D. of the pipes to be coupled, and select coupling size which covers the pipe diameters of both pipe ends. Example: To couple 8" Oversize Cast Iron Pipe and 8" C900 PVC pipe, order **ALPHA TC - 9.40 x 9.10**.

Appendix C - Wrangell Sewer Outfall Repairs



HDPE WATER & SEWER

MEETS AWWA C901/C906, ASTM D2239, ASTM D2737, ASTM D3035, ASTM F714, CELL CLASS PER ASTM D3350, PPI LISTED MATERIAL (TR-4) PE 3408/3608/4710, AND ANSI/NSF-14.



APPLICATIONS

JM Eagle's high-performance high-density polyethylene water pressure pipes are suitable for municipal and industrial transmission systems for potable water, sewer, drain, mining, irrigation, and reclaimed water.

DESCRIPTION ←

JM Eagle's high-density polyethylene water and sewer pipe is made from premium, highly engineered PE 3408/3608 or PE 4710 resin material for a maximum pressure rating to service today's water and sewer needs.

Products are available in ½-inch to 63-inch diameters.

The product's physical properties make it applicable to open-trench and slip-lining installations.

It can be manufactured with the color striping to identify application, such as a blue stripe for potable water, a green stripe for sewer applications and a purple stripe for reclaimed water.

PE 4710 resin surpasses PE 3408/3608 in the following high-performance designations:

- Density class 4 (0.947 – 0.955 g/cc) vs. density cell class 3 (>0.940 – 0.947 g/cc).
- SCG (slow crack growth) cell class 7 or PENT value of 500 hours vs. SCG cell class 4 or PENT value of 10 hours.
- 1,000 psi HDS (hydrostatic design stress) vs. 800 psi HDS.

BENEFITS

JM Eagle's HDPE pipe for water and sewer is manufactured for excellent performance and a long life expectancy.

- Its butt-fused joints eliminate potential leak points, common at 10 to 20 feet with ductile iron pipe, for a zero leak rate.
- Highly resistant to corrosion and weather, recent studies conclude it will last at least 100 years.
- Its light weight and flexibility make it easy to install, eliminate the need for fittings required with directional changes, and make it highly suitable for use in earthquake-prone areas.
- Its high-strength walls give it the highest PE pressure rating, outstanding resistance to SCG and increased resistance to rapid crack propagation.
- The increased working stress rating of high-performance PE 4710 resin material makes it a superior choice over steel or ductile iron pipe, especially for the large-diameter pipe sizes.

Revised 3/8/2013. This information may have been updated. Please download the latest version at www.jmeagle.com/onesheets.



POLYETHYLENE WATER & SEWER

SUBMITTAL AND DATA SHEET

HDPE IRON PIPE SIZE (I.P.S.) PRESSURE PIPE

ANSI/NSF-61, 14 LISTED

PE 4710		DR 7 (333 psi)			DR 9 (250 psi)			DR 11 (200 psi)		
PIPE SIZE	AVG. O.D.	MIN. T.	AVG. I.D.	WEIGHT LB/FT	MIN. T.	AVG. I.D.	WEIGHT LB/FT	MIN. T.	AVG. I.D.	WEIGHT LB/FT
1/2	0.840	0.120	0.586	0.12	0.093	0.643	0.10	0.076	0.679	0.08
3/4	1.050	0.150	0.732	0.19	0.117	0.802	0.15	0.095	0.849	0.12
1	1.315	0.188	0.916	0.29	0.146	1.005	0.23	0.120	1.061	0.20
1-1/4	1.660	0.237	1.158	0.46	0.184	1.270	0.37	0.151	1.340	0.31
1-1/2	1.900	0.271	1.325	0.61	0.211	1.453	0.49	0.173	1.533	0.41
2	2.375	0.339	1.656	0.95	0.264	1.815	0.77	0.216	1.917	0.64
3	3.500	0.500	2.440	2.06	0.389	2.675	1.66	0.318	2.826	1.39
4	4.500	0.643	3.137	3.40	0.500	3.440	2.75	0.409	3.633	2.30
5-3/8	5.375	0.768	3.747	4.85	0.597	4.109	3.92	0.489	4.338	3.29
5	5.563	0.795	3.878	5.20	0.618	4.253	4.20	0.506	4.490	3.52
6	6.625	0.946	4.619	7.36	0.736	5.065	5.96	0.602	5.349	4.99
7	7.125	0.976	5.056	8.52	0.792	5.446	6.89	0.648	5.751	5.78
8	8.625	1.232	6.013	12.48	0.958	6.594	10.09	0.784	6.963	8.46
10	10.750	1.536	7.494	19.40	1.194	8.219	15.68	0.977	8.679	13.14
12	12.750	1.821	8.889	27.28	1.417	9.746	22.07	1.159	10.293	18.49
14	14.000	2.000	9.760	32.90	1.556	10.107	26.61	1.273	11.301	22.30
16	16.000	2.286	11.154	42.97	1.778	12.231	34.75	1.455	12.915	29.12
18	18.000	2.571	12.549	54.37	2.000	13.760	43.97	1.636	14.532	36.84
20	20.000	2.857	13.943	67.13	2.222	15.289	54.28	1.818	16.146	45.49
22	22.000	3.143	15.337	81.23	2.444	16.819	65.68	2.000	17.76	55.05
24	24.000	3.429	16.732	96.67	2.667	18.346	78.18	2.182	19.374	65.52
26	26.000	—	—	—	2.889	19.875	91.75	2.364	20.988	76.90
28	28.000	—	—	—	3.111	21.405	106.40	2.545	22.605	89.15
30	30.000	—	—	—	3.333	22.934	122.13	2.727	24.219	102.35
32	32.000	—	—	—	—	—	—	2.909	25.833	116.46
34	34.000	—	—	—	—	—	—	3.091	27.447	131.48
36	36.000	—	—	—	—	—	—	3.273	29.061	147.41

I.D. : Inside Diameter
 O.D. : Outside Diameter
 T. : Wall Thickness

* For data, sizes, or classes not reflected in these charts, please contact JM Eagle™ for assistance.

Revised 3/7/2013. This information may have been updated. Please download the latest version at www.jmeagle.com



HDPE IRON PIPE SIZE (I.P.S.) PRESSURE PIPE (continued)

ANSI/NSF-61, 14 LISTED

PE 4710		DR 13.5 (160 psi)			DR 17 (125 psi)			DR 19 (111 psi)		
PIPE SIZE	AVG. O.D.	MIN. T.	AVG. I.D.	WEIGHT LB/FT	MIN. T.	AVG. I.D.	WEIGHT LB/FT	MIN. T.	AVG. I.D.	WEIGHT LB/FT
1/2	0.840	—	—	—	—	—	—	—	—	—
3/4	1.050	0.078	0.885	0.10	—	—	—	—	—	—
1	1.315	0.097	1.109	0.16	—	—	—	—	—	—
1-1/4	1.660	0.123	1.399	0.26	—	—	—	—	—	—
1-1/2	1.900	0.141	1.601	0.34	—	—	—	—	—	—
2	2.375	0.176	2.002	0.53	0.140	2.078	0.43	—	—	—
3	3.500	0.259	2.951	1.16	0.206	3.063	0.94	0.184	3.110	0.84
4	4.500	0.333	3.794	1.91	0.265	3.938	1.55	0.237	3.998	1.39
5-3/8	5.375	0.398	4.531	2.73	0.316	4.705	2.21	0.283	4.775	1.99
5	5.563	0.412	4.690	2.92	0.327	4.870	2.36	0.293	4.942	2.13
6	6.625	0.491	5.584	4.15	0.390	5.798	3.35	0.349	5.885	3.02
7	7.125	0.528	6.006	4.80	0.419	6.237	3.88	0.375	6.330	3.49
8	8.625	0.639	7.270	7.03	0.507	7.550	5.68	0.454	7.663	5.12
10	10.750	0.796	9.062	10.92	0.632	9.410	8.82	0.566	9.550	7.95
12	12.750	0.944	10.749	15.36	0.750	11.160	12.41	0.671	11.327	11.19
14	14.000	1.037	11.802	18.52	0.824	12.253	14.98	0.737	12.438	13.49
16	16.000	1.185	13.488	24.19	0.941	14.005	19.55	0.842	14.215	17.61
18	18.000	1.333	15.174	30.61	1.059	15.755	24.75	0.947	15.992	22.29
20	20.000	1.481	16.860	37.79	1.176	17.507	30.53	1.053	17.768	27.52
22	22.000	1.630	18.544	45.75	1.294	19.257	36.86	1.158	19.545	33.30
24	24.000	1.778	20.231	54.44	1.412	21.007	43.99	1.263	21.322	39.63
26	26.000	1.926	21.917	63.89	1.529	22.759	51.61	1.368	23.100	46.51
28	28.000	2.074	23.603	74.09	1.647	24.508	59.87	1.474	24.875	53.94
30	30.000	2.222	25.289	85.04	1.765	26.258	68.74	1.579	26.653	61.92
32	32.000	2.370	26.976	96.76	1.882	28.010	78.18	1.684	28.430	70.45
34	34.000	2.519	28.660	109.26	2.000	29.760	88.28	1.790	30.205	79.54
36	36.000	2.667	30.346	122.49	2.118	31.510	98.98	1.895	31.983	89.17
42	42.000	3.111	35.404	166.70	2.471	36.761	134.72	2.211	37.314	121.37
48	48.000	3.556	40.462	217.76	2.824	42.013	175.97	2.526	42.644	158.52
54	54.000	—	—	—	3.177	47.265	222.67	2.842	47.975	200.63

* For data, sizes, or classes not reflected in these charts, please contact JM Eagle™ for assistance.

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HDPE IRON PIPE SIZE (I.P.S.) PRESSURE PIPE (continued)

ANSI/NSF-61, 14 LISTED

PE 4710		DR 21 (100 psi)			DR 26 (80 psi)			DR 32.5 (63 psi)		
PIPE SIZE	AVG. O.D.	MIN. T.	AVG. I.D.	WEIGHT LB/FT	MIN. T.	AVG. I.D.	WEIGHT LB/FT	MIN. T.	AVG. I.D.	WEIGHT LB/FT
3	3.500	0.167	3.146	0.77	0.135	3.214	0.63	0.108	3.271	0.51
4	4.500	0.214	4.046	1.27	0.173	4.133	1.03	0.138	4.207	0.83
5-3/8	5.375	0.256	4.832	1.81	0.207	4.936	1.48	0.165	5.025	1.19
5	5.563	0.265	5.001	1.94	0.214	5.109	1.58	0.171	5.200	1.27
6	6.625	0.315	5.957	2.74	0.255	6.084	2.24	0.204	6.193	1.81
7	7.125	0.339	6.406	3.18	0.274	6.544	2.59	0.219	6.661	2.09
8	8.625	0.411	7.754	4.66	0.332	7.921	3.80	0.265	8.063	3.06
10	10.750	0.512	9.665	7.24	0.413	9.874	5.90	0.331	10.048	4.77
12	12.750	0.607	11.463	10.17	0.490	11.711	8.30	0.392	11.919	6.69
14	14.000	0.667	12.586	12.28	0.538	12.859	10.00	0.431	13.086	8.08
16	16.000	0.762	14.385	16.03	0.615	14.696	13.07	0.492	14.957	10.54
18	18.000	0.857	16.183	20.28	0.692	16.533	16.54	0.554	16.826	13.36
20	20.000	0.952	17.982	25.03	0.769	18.370	20.43	0.615	18.696	16.48
22	22.000	1.048	19.778	30.31	0.846	20.206	24.72	0.677	20.565	19.95
24	24.000	1.143	21.577	36.06	0.923	22.043	29.42	0.738	22.435	23.72
26	26.000	1.238	23.375	42.32	1.000	23.880	34.53	0.800	24.304	27.86
28	28.000	1.333	25.174	49.07	1.077	25.717	40.05	0.862	26.173	32.33
30	30.000	1.429	26.971	56.36	1.154	27.554	45.98	0.923	28.043	37.09
32	32.000	1.542	28.730	64.11	1.231	29.390	52.31	0.985	29.912	42.22
34	34.000	1.619	30.568	72.36	1.308	31.227	59.06	1.046	31.782	47.63
36	36.000	1.714	32.366	81.12	1.385	33.064	66.22	1.108	33.651	53.42
42	42.000	2.000	37.760	110.43	1.615	38.576	90.08	1.292	39.261	72.68
48	48.000	2.286	43.154	144.25	1.846	44.086	117.68	1.477	44.869	94.95
54	54.000	2.571	48.549	182.51	2.077	49.597	148.95	1.662	50.477	120.20
63	63.000	3.000	56.640	248.46	2.423	57.863	202.73	1.938	58.891	163.53

* For custom DR, perforated pipe, please contact JM Eagle™ PE sales at (800) 621-4404 for availability.

* All dimensions are in inches unless noted otherwise.

I.D. : Inside Diameter
 O.D. : Outside Diameter
 T. : Wall Thickness

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