

OFFICE OF COUNTY MAYOR GLENN JACOBS

Procurement Division, 1000 N. Central Street, Suite 100, Knoxville, TN 37917

Knox County Procurement Division Addendum I to Invitation for Bids #2794 Metal and Plastic Pipe

Addendum Date: March 15, 2019 Buyer: Karen D. Smitherman

Opening Date: April 04, 2019 @ 2:00 pm Total Pages: 6 Total Pages

Delete/Add:

Delete #1:

Section 4.1.3 <u>High-Performance Polypropylene Pipe:</u> This pipe shall meet or exceed the requirements of Subsection 915.02 of the Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction. Polypropylene compound for pipe and fitting productions shall be impact modified copolymer meeting the material requirements of ASTM F2881, Section 5 and AASHTO M330, Section 6.1. The Manning's "n" value shall be 0.012. The pipe shall utilize an enhanced dual wall construction, smooth interior, and annular exterior corrugations. The pipe shall be joined with a gasketed integral bell and spigot joint meeting the requirements of F2881. Pipe shall be watertight according to the requirements of ASTM D3212. Spigots shall have gaskets meeting the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer with a joint lubricant and covered with a removable, protective wrap to ensure the gasket is free from debris. The pipe shall have an exterior bell wrap installed by the manufacturer. Fittings shall conform to ASTM F2881 and AASHTO M330. Bell and spigot connections shall utilize a spun-on, welded or integral bell and spigots with gaskets meeting ASTM F477. Bell and spigot fittings joint shall meet the watertight joint performance requirements of ASTM D3212. Corrugated couplings shall be split collar, engaging at least 2 full corrugations. The pipe shall meet or exceed testing of ASTM F1417 or ASTM F2487.

Add #1:

Section 4.1.3 <u>High Density Polyethylene Pipe:</u> This pipe shall meet or exceed the requirements of Subsection 914.10 of the Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction. For reference purposes, Advanced Drainage Systems (ADS) N-12 WT IB Pipe Specification is used. Pipe diameters of 12" through 60" shall meet AASHTO M294, Type S or ASTM F2306. The Manning's "n" value shall be 0.012. The pipe shall utilize an enhanced dual wall construction, smooth interior, and annular exterior corrugations. The pipe shall be joined with a gasketed integral bell and spigot joint meeting the requirements of AASHTO M294 or ASTM F2306. Pipe shall be watertight according to the requirements of ASTM D3212. Gaskets shall meet the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable protective wrap to ensure the gasket is free from debris. Fittings shall conform to ASTM 2306 and AASHTO M294. Corrugated couplings shall be split collar, engaging at least 2 full corrugations.



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Questions/Answers:

Question #1: The H-12 bands required ask for a 16ga material. The H-12 hugger bands are made out of 18ga

material to give them enough flexibility for a tight fit. Only 10-C corrugated bands are made out of 16ga or thicker material. Is it ok to use 18ga material for the hugger bands? Also, do the bands need

to be made out of an AT2 material?

Answer #1: It would be acceptable to use 18 gauge H-12 bands since they are in tolerance of the standards we

specified. Yes, they do need to be made out of Aluminized Type 2 (AT2) material.

Question #2: Are the 10-C bands required to be AT2?

Answer #2: 10-C bands are required to be Aluminized Type 2.

Question #3: A 10-C band is not available for arch pipe. A 12-H band is used for arch pipe.

Answer #3: 10-C bands are available for arch pipes, and they are recommended for 54" arch and above, as

specified.

Question #4: HP Storm pipe made with polypropylene resin is only made by ADS, a sole source. This pipe is

only available to a limited amount of dealers which I am not one. Can NFlow HDPE storm pipe made out of a virgin polyethylene resin meeting the requirements for AASHTO M294 (virgin resins), ASTM D3212 (WT-13psi or more), and TDOT be used as an alternate? Other qualities of this pipe are 100 year life span, minimum cover of 1', maximum cover of 20' using Class III soils,

and a maximum joint pressure from 24psi to 56psi depending on the diameter.

Answer #4: Addendum I has revised the pipe to Polyethylene instead of Polypropylene.

NOTE: The revised Bid Form included with Addendum I must be used to submit your bid.

End of Addendum #1.

Addendum must be acknowledged in Section 5.10.

Karen D. Smitherman, CPPB, PMP

Karen Smutherman

Manager of Construction and Energy Contracts

Knox County Government

SECTION VI VENDOR PRICING FOR BID NUMBER 2794, METAL AND PLASTIC PIPE

VENDOR NAME:

The following table includes materials that Knox County may purchase from the resulting Term Contract. Please complete the pricing listed below and submit it with your bid. Failure to do so will result in your bid being non-responsive.

	Type of Material	Unit of Measure	Price per UOM
	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 3 x 1/2		
6.1	inch corrugations, 12" diameter, 14 gauge, per specifications	LF	
6.2	Band, H-12, 1 foot wide, 16 gauge, 2 3/3 x 1/2 for item directly above	EA	
0.2	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 ² / ₃ x ¹ / ₂	EA	
6.3	inch corrugations, 15" diameter, 12 gauge, per specifications	LF	
0.0	Band, H-12, 1 foot wide, 16 gauge, 2 % x ½ for item directly		
6.4	above	EA	
6.5	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 \(^2_3\) x \(^1_2\) inch corrugations, 15" diameter, 14 gauge, per specifications	LF	
6.6	Band, H-12, 1 foot wide, 16 gauge, 2 3/3 x 1/2 for item directly above	EA	
6.7	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 3/3 x 1/2 inch corrugations, 18" diameter, 14 gauge, per specifications	LF	
6.8	Band, H-12, 1 foot wide, 16 gauge, 2 3/3 x 1/2 for item directly above	EA	
6.9	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 ¾ x ½ inch corrugations, 24" diameter, 14 gauge, per specifications	LF	
6.10	Band, H-12, 1 foot wide, 16 gauge, 2 ¾ x ½ for item directly above	EA	
6.11	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 ¾ x ½ inch corrugations, 30" diameter, 14 gauge, per specifications	LF	
6.12	Band, H-12, 1 foot wide, 16 gauge, 2 3/3 x 1/2 for item directly above	EA	
6.13	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 3/3 x 1/2 inch corrugations, 36" diameter, 14 gauge, per specifications	LF	
6.14	Band, H-12, 1 foot wide, 16 gauge, 2 3/3 x 1/2 for item directly above	EA	
6.15	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 ¾ x ½ inch corrugations, 42" diameter, 14 gauge, per specifications	LF	
6.16	Band, H-12, 1 foot wide, 16 gauge, 2 3/3 x 1/2 for item directly above	EA	
6.17	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 \(^2\)_3 x \(^1\)_2 inch corrugations, 48" diameter, 14 gauge, per specifications	LF	
6.18	Band, H-12, 1 foot wide, 16 gauge, 2 2/3 x ½ for item directly above	EA	
6.19	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 3/3 x 1/2 inch corrugations, 18" diameter, 12 gauge, per specifications	LF	
6.20	Band, H-12, 1 foot wide, 16 gauge, 2 ¾ x ½ for item directly above	EA	
6.21	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 ¾ x ½ inch corrugations, 24" diameter, 12 gauge, per specifications	LF	
6.22	Band, H-12, 1 foot wide, 16 gauge, 2 ¾ x ½ for item directly above	EA	

SECTION VI VENDOR PRICING FOR BID NUMBER 2794, METAL AND PLASTIC PIPE - CONTINUED

VENDOR NAME: _____

	Type of Material	Unit of Measure	Price per UOM
	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 3/3 x 1/2		
6.23	inch corrugations, 30" diameter, 12 gauge, per specifications	LF	
6.24	Band, H-12, 1 foot wide, 16 gauge, 2 3/3 x 1/2 for item directly	ГΛ	
6.24	above Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 3 x ½	EA	
6.25	inch corrugations, 36" diameter, 12 gauge, per specifications	LF	
0.20	Band, H-12, 1 foot wide, 16 gauge, 2 % x ½ for item directly	<u> </u>	
6.26	above	EA	
	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 3/3 x 1/2		
6.27	inch corrugations, 42" diameter, 12 gauge, per specifications	LF	
0.00	Band, H-12, 1 foot wide, 16 gauge, 2 3/3 x 1/2 for item directly	Ε.Δ.	
6.28	Aluminized Steel Type 2 Corrugated Metal Bound Bine 2.2/ v 1/	EA	
6.29	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 2 \(^2\)_3 x \(^1\)_2 inch corrugations, 48" diameter, 12 gauge, per specifications	LF	
	Band, H-12, 1 foot wide, 16 gauge, $2\frac{2}{3} \times \frac{1}{2}$ for item directly		
6.30	above	EA	
	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 5 x 1		
6.31	inch corrugations, 54" diameter, 10 gauge, per specifications	LF	
C 22	Band, 10-C, 2 foot fully corrugated, 16 gauge, 2 3 x ½ for item	Ε.Δ.	
6.32	directly above Aluminized Steel Type 2 Corrugated Metal Round Pipe, 5 x 1	EA	
6.33	inch corrugations, 60" diameter, 10 gauge, per specifications	LF	
	Band, 10-C, 2 foot fully corrugated, 16 gauge, 2 % x ½ for item		
6.34	directly above	EA	
	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 5 x 1		
6.35	inch corrugations, 72" diameter, 10 gauge, per specifications	LF	
6.36	Band, 10-C, 2 foot fully corrugated, 16 gauge, 2 3 x ½ for item	EA	
0.30	directly above Aluminized Steel Type 2 Corrugated Metal Round Pipe, 5 x 1	EA	
6.37	inch corrugations, 84" diameter, 10 gauge, per specifications	LF	
	Band, 10-C, 2 foot fully corrugated, 16 gauge, 2 3 x ½ for item		
6.38	directly above	EA	
	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 5 x 1		
6.39	inch corrugations, 96" diameter, 10 gauge, per specifications	LF	
6.40	Band, 10-C, 2 foot fully corrugated, 16 gauge, 2 3/3 x 1/2 for item directly above	EA	
0.40	Aluminized Steel Type 2 Corrugated Metal Round Pipe, 5 x 1	LA	
6.41	inch corrugations, 108" diameter, 10 gauge, per specifications	LF	
	Band, 10-C, 2 foot fully corrugated, 16 gauge, 2 3 x 1/2 for item		
6.42	directly above	EA	
	Aluminized Steel Type 2 Corrugated Metal Arch Pipe, 2 3/3 x 1/2	. –	
6.43	inch corrugations, 24" diameter, 12 gauge, per specifications	LF	
6.44	Band, H-12, 1 foot wide, 16 gauge, 2 3/3 x 1/2 for item directly above	EA	
0.44	สมบิงธ	LA	

SECTION VI VENDOR PRICING FOR BID NUMBER 2794, METAL AND PLASTIC PIPE - CONTINUED

VENDOR NAME: _____

	Type of Material	Unit of Measure	Price per UOM
6.45	Aluminized Steel Type 2 Corrugated Metal Arch Pipe, 2 3/3 x 1/2 inch corrugations, 30" diameter, 12 gauge, per specifications	LF	
6.46	Band, H-12, 1 foot wide, 16 gauge, 2 1/2 for item directly above	EA	
6.47	Aluminized Steel Type 2 Corrugated Metal Arch Pipe, 2 3/3 x 1/2 inch corrugations, 36" diameter, 12 gauge, per specifications	LF	
6.48	Band, H-12, 1 foot wide, 16 gauge, 2 3/3 x 1/2 for item directly above	EA	
6.49	Aluminized Steel Type 2 Corrugated Metal Arch Pipe, 2 3/3 x 1/2 inch corrugations, 42" diameter, 12 gauge, per specifications	LF	
6.50	Band, H-12, 1 foot wide, 16 gauge, 2 3/3 x 1/2 for item directly above	EA	
6.51	Aluminized Steel Type 2 Corrugated Metal Arch Pipe, 2 3/3 x 1/2 inch corrugations, 48" diameter, 12 gauge, per specifications	LF	
6.52	Band, H-12, 1 foot wide, 16 gauge, 2 3/3 x 1/2 for item directly above	EA	
6.53	Aluminized Steel Type 2 Corrugated Metal Arch Pipe, 5 x 1 inch corrugations, 54" diameter, 10 gauge, per specifications	LF	
6.54	Band, 10-C, 2 foot fully corrugated, 16 gauge, 2 ½ x ½ for item directly above	EA	
6.55	Aluminized Steel Type 2 Corrugated Metal Arch Pipe, 5 x 1 inch corrugations, 60" diameter, 10 gauge, per specifications	LF	
6.56	Band, 10-C, 2 foot fully corrugated, 16 gauge, 2 ½ x ½ for item directly above	EA	
6.57	Aluminized Steel Type 2 Corrugated Metal Arch Pipe, 5 x 1 inch corrugations, 72" diameter, 10 gauge, per specifications	LF	
6.58	Band, 10-C, 2 foot fully corrugated, 16 gauge, 2 ½ x ½ for item directly above	EA	
6.59	High Density Polyethylene Pipe, 12" diameter, ADS N-12 WT IB Pipe or equal, per specifications	LF	
6.60	HDPE Split Band Couplers for 12" diameter pipe	EA	
6.61	High Density Polyethylene Pipe, 15" diameter, ADS N-12 WT IB Pipe or equal, per specifications	LF	
6.62	HDPE Split Band Couplers for 15" diameter pipe	EA	
6.63	High Density Polyethylene Pipe, 18" diameter, ADS N-12 WT IB Pipe or equal, per specifications	LF	
6.64	HDPE Split Band Couplers for 18" diameter pipe	EA	
6.65	High Density Polyethylene Pipe, 24" diameter, ADS N-12 WT IB Pipe or equal, per specifications	LF	
6.66	HDPE Split Band Couplers for 24" diameter pipe	EA	
6.67	High Density Polyethylene Pipe, 30" diameter, ADS N-12 WT IB Pipe or equal, per specifications	LF	
6.68	HDPE Split Band Couplers for 30" diameter pipe	EA	

SECTION VI VENDOR PRICING FOR BID NUMBER 2794, METAL AND PLASTIC PIPE - CONTINUED

VENDOR NAME: _____

	Type of Material	Unit of Measure	Price per UOM
6.69	High Density Polyethylene Pipe, 36" diameter, ADS N-12 WT IB Pipe or equal, per specifications	LF	
6.70	HDPE Split Band Couplers for 36" diameter pipe	EA	
6.71	High Density Polyethylene Pipe, 42" diameter, ADS N-12 WT IB Pipe or equal, per specifications	LF	
6.72	HDPE Split Band Couplers for 42" diameter pipe	EA	
6.73	High Density Polyethylene Pipe, 48" diameter, ADS N-12 WT IB Pipe or equal, per specifications	LF	
6.74	HDPE Split Band Couplers for 48" diameter pipe	EA	
6.75	High Density Polyethylene Pipe, 60" diameter, ADS N-12 WT IB Pipe or equal, per specifications	LF	
6.76	HDPE Split Band Couplers for 60" diameter pipe	EA	

Failure to provide any of the above information or any other information requested in this bid document may be cause for disqualification.