

**CITY OF NAPLES  
PURCHASING DIVISION  
CITY HALL, 735 8<sup>TH</sup> STREET SOUTH  
NAPLES, FLORIDA 34102  
PH: 239-213-7100    FX: 239-213-7105**

**ADDENDUM NUMBER 1**

NOTIFICATION DATE:	SOLICITATION TITLE:	SOLICITATION NUMBER:	BID OPENING DATE & TIME:
<b>3/13/2020</b>	<b>Sanitary Sewer Force Main Replacement on Park Shore Drive - ITB</b>	<b>20-032</b>	<b>3/25/2020 2:00PM</b>

**THE FOLLOWING INFORMATION IS HEREBY INCORPORATED INTO,  
AND MADE AN OFFICIAL PART OF THE ABOVE REFERENCED BID.**

**The following answer to written submitted question:**

1. Bid item 6 specifies Horizontal Directional Drills (14-inch HDPE DR11) for three HDD sections of the project. Can you please confirm that 12" DR18 Fusible PVC® pipe can be used as an equal to 14" DR11 HDPE pipe? Section 02600 (Fusible Polyvinyl Chloride Pipe for installation by Horizontal Directional Drill) is already listed in the specifications.
  - a. 12" DR18 Fusible PVC® pipe has the same dimensionality and pressure capacity as the 12" B&S PVC pipe (see pipe data on page 2).
  - b. Estimated fittings saving with Fusible PVC® are detailed on page 3.

**ANSWER: No, fusible PVC is not an approved alternate. The Horizontal Directional Drills (HDD) shall be completed using HDPE pipe only.**

**Exhibit A AEGION Pipe Technical Data Sheet**

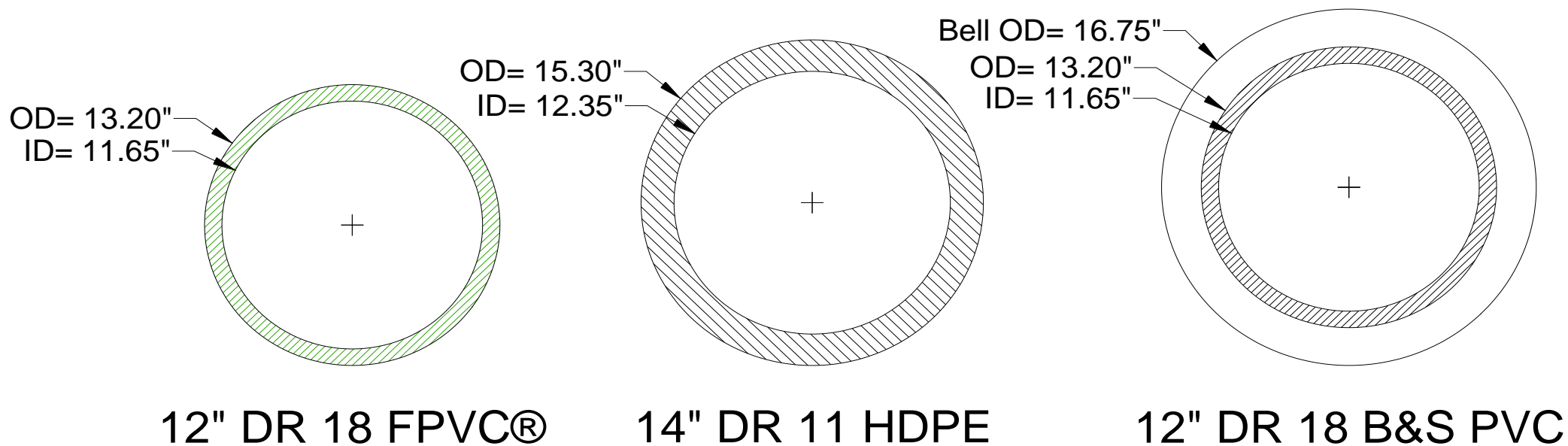
**###**

**IMPORTANT MESSAGE**

**PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID COVER SHEET.**

# Pipe Technical Data Sheet

	12" DR 18 FPVC®	14" DR 11 HDPE	12" DR 18 B&S PVC
Pipe Material	FPVC®	PE 4710	B&S PVC
Total Pipe Length (LF)	3,367	3,367	3,367
Nominal Diameter (in)	12	14	12
Dimension Ratio	DR 18	DR 11	DR 18
Series	DIPS	DIPS	DIPS
Pressure Rating (PSIG)	235	200	235
Safety Factor	2.0	1.6	2.0
Bell/Coupling OD (in)	N/A	N/A	16.75
Outside Diameter (in)	13.20	15.30	13.20
Inside Diameter (in)	11.65	12.35	11.65
Cross Sectional Flow Area (in <sup>2</sup> )	106.5	119.8	106.5
Bend Radius (LF)	275	128	N/A
Tensile Strength (PSIG)	7,000	3,500	7,000
Safe Pulling Force (lbs)	80,300	79,000	N/A
Safe Pulling Stress (PSIG)	2,800	1,150	N/A
Relaxation Period (hrs)	0	24 - 48	0
Hydrostatic Design Basis (PSIG)	4,000	1,600	4,000
Critical Buckling Pressure (PSIG)	190	73	190
Connection to Host Pipe	Standard Mechanical Joint	Fused Flange/MJ Adapter	Standard Mechanical Joint
Material Weight (lbs/ft)	18.6	26.5	19.7
Total Pipe Weight (lbs)	62,720	89,274	66,330

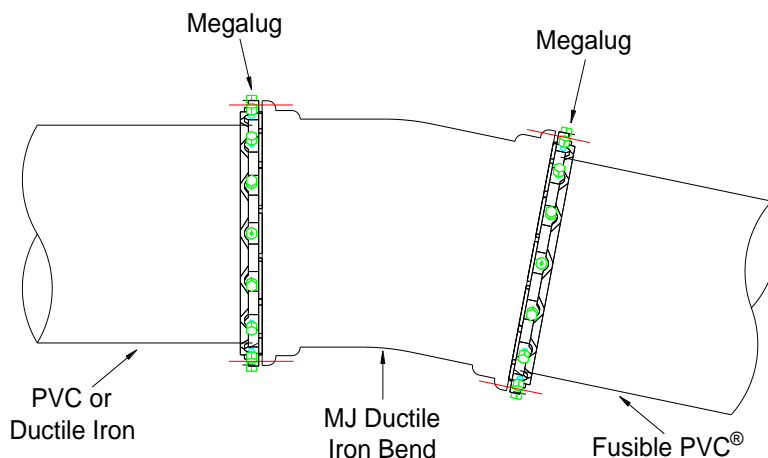


Supporting references for the above data can be found at:

<http://www.aegion.com/about/our-brands/underground-solutions/pipe-technical-data-reference>

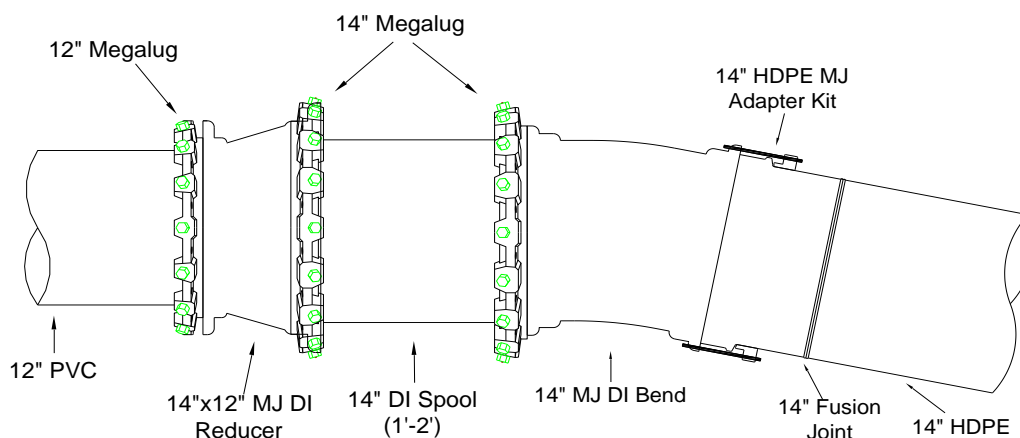
# Reconnection Details

## Fusible PVC® Pipe Detail



No.	Description	Qty	Unit Price (\$)	Total Price (\$)
1	12" MJ Ductile Iron 45° Bend	6	\$179	\$1,074
2	12" Megalug	12	\$99	\$1,189
<b>Total Fittings Cost (\$)</b>				<b>\$2,263</b>

## HDPE Pipe Detail



No.	Description	Qty	Unit Price (\$)	Total Price (\$)
1	14" HDPE MJ Adapter Kit	6	\$330	\$1,980
2	14" MJ Ductile Iron 45° Bend	6	\$281	\$1,688
3	14"x12" MJ Ductile Iron Reducer	6	\$179	\$1,074
4	14" Fusion Joint	6	\$198	\$1,188
5	14" Megalug	12	\$158	\$1,895
5	12" Megalug	6	\$99	\$595
5	14" DI Spool	6		\$0
<b>Total Fittings Cost (\$)</b>				<b>\$8,419</b>

<b>Fittings Cost Difference</b>	<b>\$6,156</b>
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Note: All costs are estimates. This analysis is for comparison purposes only - the contractor, engineer and/or owner should perform their own analysis for the purposes of final engineering designs and bid submittals.